

May 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Volkswagen Beetle (Trim Not Selected)
VIN: 3VWJX7AT6DM669701

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Steering

1. Steering Angle Sensor

- **Reset (Steering Angle Sensor - Basic Setting)**

The 2013 Volkswagen Beetle repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 61)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/52364/component/3399/itype/376/nonstandard/727403/>

selfRefLink/false

Safety

2. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2013 Volkswagen Beetle repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/52364/component/728/itype/376/nonstandard/808896/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/52364/component/465/itype/383/nonstandard/730695/selfRefLink/false>

3. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2013 Volkswagen Beetle repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52364/>

component/6978/itype/376/nonstandard/730588/
selfRefLink/false



May 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Ford Focus SE
VIN: 1FADP3F20EL342678

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Parking Sensors

ADAS

1. Parking Sensors - Rear

- Operation Check (Elevation System Check)
- Operation Check (Azimuth System Check)

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2014 Ford Focus repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 16, 17, and 22)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/53266/component/1283/itype/383/nonstandard/1737833/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53266/component/7300/itype/402/nonstandard/1790722/selfRefLink/false>

Safety

2. Seatbelt System

- Operation Check (Road Test Inspection)**

The 2014 Ford Focus repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53266/component/1285/itype/383/nonstandard/1736900/selfRefLink/false>

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2014 Ford Focus repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.oem1stop.com/sites/default/files/Ford_%20PrePost_Scan_Position%20Statement_%20FNL_2022.pdf



May 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Ram 2500 Laramie Longhorn
VIN: 3C6UR5GL9DG516757

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2013 Ram 2500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://my.alldata.com/ColRef/Position_Statements/
FCA,_LLC/Scan_Tool_Position_Statement.htm](https://my.alldata.com/ColRef/Position_Statements/FCA,_LLC/Scan_Tool_Position_Statement.htm)

May 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Toyota RAV4 Hybrid LE
VIN: 2T3BWRFV2LW057718

3 Required Safety Operations

There are 3 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Pre-Collision System with Pedestrian Detection
Rear Camera
Rear Cross-Traffic Alert
Toyota Safety Sense (TSS) 2.0

Safety

1. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2020 Toyota RAV4 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/1236/itype/387/nonstandard/117923/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/611/itype/15/nonstandard/120929/selfRefLink/false>

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2020 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/465/itype/383/nonstandard/114941/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/465/itype/15/nonstandard/114942/selfRefLink/false>

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2020 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



May 5, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Jeep Grand Cherokee SRT
VIN: 1C4RJFDJ1JC384574

1 Required Safety Operation

There is 1 Safety that Jeep requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Blind Spot Warning
Forward Collision Mitigation
Lane Keep Assist
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2018 Jeep Grand Cherokee repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://my.alldata.com/ColRef/Position_Statements/
FCA,_LLC/Scan_Tool_Position_Statement.htm](https://my.alldata.com/ColRef/Position_Statements/FCA,_LLC/Scan_Tool_Position_Statement.htm)



May 5, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Toyota Venza (Trim Not Selected)
VIN: 4T3BA3BB5FU071575

2 Required Safety Operations

There are 2 Safety operations that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2015 Toyota Venza repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54595/component/1236/itype/387/nonstandard/911295/selfRefLink/false>

2. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2015 Toyota Venza repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



May 5, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Nissan Rogue S
VIN: JN1BJ1CP1JW192096

2 Required Safety Operations

There are 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Automatic Emergency Braking
Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert

Safety

1. Seatbelt System

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**
- **Inspection (Seatbelt Inspection)**
- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

The 2018 Nissan Rogue repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58637/component/728/itype/383/nonstandard/11374/selfRefLink/false>

2. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2018 Nissan Rogue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm

May 5, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Mitsubishi RVR ES
VIN: JA4AH3AU7KU604909

1 Required Safety Operation

There is 1 Safety that Mitsubishi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- Pre-Scan Required (Post Collision Diagnosis and Inspection)

The 2019 Mitsubishi RVR repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59808/component/6978/itype/376/nonstandard/12376/selfRefLink/true>

May 5, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Mercedes-Benz C-Class - 205 C 300
VIN: 55SWF8EB2KU286955

3 Required ADAS Operations 2 Required Safety Operations

There are 3 ADAS and 2 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Brake Assist
- Active Brake Assist
- Right-Side Camera
- Surround View rear mounted camera
- Surround-View Monitor

Optional ADAS Features

- Active Blind Spot Assist
- Active Brake Assist with Cross-Traffic Function
- Active Distance Assist DISTROニック
- Active Lane Keeping Assist
- Active Speed Limit Assist
- Blind Spot Warning
- Evasion Assist System
- Front Mounted Camera
- Head-Up Display
- Level 2 - Partial Automation (Highway Driving Assist)
- PARKTRONIC with Active Parking Assist
- Rear Camera
- Rear Collision Mitigation

ADAS

1. Mercedes Active Brake Assist Controller Unit (A108)

- **Dynamic Calibration (Calibration of Component A108)**

The Mercedes Active Brake Assist Controller Unit (A108) is responsible for Active Brake Assist, Active Brake Assist, and Active Distance Assist DISTRONIC on this vehicle.

The 2019 Mercedes-Benz C-Class - 205 repair manual states that a operation is required for the Mercedes Active Brake Assist Controller Unit (A108) when the following occurs:

- Front bumper is replaced (Line number 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60238/guid/namb2015-2021205-ad00_00-p-2000-04b_pdf

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60238/component/7309/itype/401/nonstandard/12548/selfRefLink/false>

2. Mercedes front radar (A90, B29, B92/3-5)

- **Dynamic Calibration (Dynamic Adjustment)**

The Mercedes front radar (A90, B29, B92/3-5) is responsible for Active Blind Spot Assist, Active Brake Assist, and Active Brake Assist with Cross-Traffic Function on this vehicle.

The 2019 Mercedes-Benz C-Class - 205 repair manual states that a operation is required for the Mercedes front radar (A90, B29, B92/3-5) when the following occurs:

- Front bumper is replaced (Line number 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60238/guid/namb2015-2021205-ad00_00-p-2000-04b_pdf

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60238/component/7309/itype/401/nonstandard/12548/selfRefLink/false>

3. Surround-View Monitor Cameras

- **Dynamic Calibration (Calibration of 360 Degree Camera System)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera, Surround View rear mounted camera, and Surround-View Monitor on this vehicle.

The 2019 Mercedes-Benz C-Class - 205 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1, 2, and 13)
- Door is installed (Line number 29)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60238/guid/namb2015-2021205-ad00_00-p-2000-04b_pdf

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60238/component/7309/itype/401/nonstandard/12548/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60238/component/6630/itype/401/nonstandard/11775/selfRefLink/false>

Safety

4. Headlight Assembly

- **Programming (Initial Startup and Coding)**

The 2019 Mercedes-Benz C-Class - 205 repair manual states that a operation is required for the Headlight Assembly when the following occurs:

- Headlamp is replaced (Line number 10)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60238/guid/namb2015-2021205-ad00_00-p-2000-04b_pdf

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60238/component/536/itype/401/nonstandard/12394/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Mercedes-Benz C-Class - 205 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>



May 5, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Nissan Rogue S
VIN: JN1BJ1CP1JW192096

2 Required Safety Operations

There are 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Automatic Emergency Braking
Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert

Safety

1. Seatbelt System

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**
- **Inspection (Seatbelt Inspection)**
- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

The 2018 Nissan Rogue repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58637/component/728/itype/383/nonstandard/11374/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Nissan Rogue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm

May 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Acura RDX w/A-Spec Package
VIN: 5J8TC2H65NL804035

3 Required ADAS Operations 3 Required Safety Operations

There are 3 ADAS and 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Low-Speed Follow
- Blind Spot Warning
- Collision Mitigation Braking System
- Front and Rear Parking Sensors
- Lane Keeping Assist System
- Pedestrian Impact Prevention
- Rear Camera
- Rear Cross-Traffic Monitor
- Traffic Sign Recognition

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar - Aim)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow and Collision Mitigation Braking System on this vehicle.

The 2022 Acura RDX repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1 and 2)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 10)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/63507/component/871/itype/387/nonstandard/11779/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Parking Sensors - Front

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Front is responsible for Front and Rear Parking Sensors on this vehicle.

The 2022 Acura RDX repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1 and 6)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/service.html?package=61TJB&lang=enu&sie=R001488_enu

3. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System and Lane Keeping Assist System on this vehicle.

The 2022 Acura RDX repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 10)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/63507/component/871/itype/387/nonstandard/11777/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

4. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)**

The 2022 Acura RDX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/63507/component/6978/itype/376/nonstandard/12020/selfRefLink/false>

5. SRS Unit

- **Inspection (Read SRS Deployment History)**

The 2022 Acura RDX repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/63507/component/611/itype/377/nonstandard/12919/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/63507/component/611/itype/15/nonstandard/11528/selfRefLink/false>

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2022 Acura RDX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Acura_Vehicles.htm



May 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Honda Civic LX
VIN: 2HGFC2F54HH027453

3 Required Safety Operations

There are 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2017 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57011/component/6978/itype/383/nonstandard/103231/selfRefLink/false>



2. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2017 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57011/guid/nahn17CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57011/component/611/itype/15/nonstandard/102293/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2017 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm

May 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Honda Civic LX
VIN: 2HGFC2F54HH027453

2 Required Steering Operations 3 Required Safety Operations

There are 2 Steering and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Steering

1. Steering Angle Sensor

- Reset (Steering Angle Sensor Neutral Position Clear)

The 2017 Honda Civic repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Battery is installed (Line number 38)
- Battery is repaired (Line number 38)

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://my.alldata.com/repair/#/repair/article/57012/component/303/itype/376/nonstandard/102584/selfRefLink/true>



OEM procedure requirement and instructions:



https://my.alldata.com/repair/#/repair/article/57012/guid/nah17CIVIC_TBA-R001672_enu_html

2. Vehicle Stability Assist Sensor

- **Reset (VSA Sensor Neutral Position Memorization)**



The 2017 Honda Civic repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 33 and 34)
- Front End Alignment is repaired (Line number 34)
- Battery is repaired (Line number 38)
- Battery is installed (Line number 38)

Please see the documentation from the manufacturer below.

OEM procedure instructions:



https://my.alldata.com/repair/#/repair/article/57012/guid/nah17CIVIC_TBA-R001644_enu_html

OEM procedure instructions:



https://my.alldata.com/repair/#/repair/article/57014/guid/nah17CIVIC_TBA-R001672_enu_html

OEM procedure requirement:



<https://my.alldata.com/repair/#/repair/article/57012/component/3399/itype/376/nonstandard/103787/selfRefLink/false>

OEM procedure requirement:



<https://my.alldata.com/repair/#/repair/article/57014/component/303/itype/376/nonstandard/102584/>



selfRefLink/false

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2017 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57011/component/6978/itype/383/nonstandard/103231/>
selfRefLink/false

4. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2017 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57011/guid/nah17CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57011/component/611/itype/15/nonstandard/102293/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2017 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm

May 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Toyota RAV4 LE
VIN: 2T3ZFREV6HW399907

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Lane Departure Alert with Steering Assist
Pedestrian Impact Prevention
Pre-Collision System
Rear Camera

ADAS

1. Rear Camera

- **Static Calibration (Park Assist Monitor System Calibration - Rear view cameras with active parking gridlines only)**

The Rear Camera is responsible for Rear Camera on this vehicle.

The 2017 Toyota RAV4 repair manual states that a operation is required for the Rear Camera when the following occurs:

- Trunk Lid/Lift Gate is replaced (Line number 18)
- Trunk Lid/Lift Gate is installed (Line number 18)
- Rear gate garnish is installed (Line number 24)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58323/component/1283/itype/387/nonstandard/214333/selfRefLink/false>

Safety

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2017 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53001/component/465/itype/15/nonstandard/211226/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm



May 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 BMW 3 Series (E92 Coupe, E93 Convertible, F30 Sedan) 320i xDrive
VIN: WBA3C3C51DF979458

2 Required Safety Operations

There are 2 Safety that BMW requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Front and Rear Parking Sensors
Rear Camera

Safety

1. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2013 BMW 3 Series (E92 Coupe, E93 Convertible, F30 Sedan) repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52065/component/1285/itype/383/nonstandard/1100830/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 BMW 3 Series (E92 Coupe, E93 Convertible, F30 Sedan) repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW%2C_Mini%2FPreliminary_Diagnostics_For_Collision_Repair.htm

May 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Hyundai Elantra Preferred
VIN: KMHD84LF4KU758965

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning

ADAS

1. Blind Spot Radar

- Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)

- Dynamic Calibration (BSD Unit Alignment)

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.

The 2019 Hyundai Elantra repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 1 and 2)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60061/component/7821/itype/376/nonstandard/2101714/selfRefLink/false>

Safety

2. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2019 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

May 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Honda CR-V LX
VIN: 2HKRW1H20MH000445

3 Required ADAS Operations
1 Required Steering Operation
3 Required Safety Operations

There are 3 ADAS, 1 Steering, and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Front and Rear Parking Sensors
Lane Keeping Assist System with Road Departure Mitigation
Rear Camera

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Aiming)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2021 Honda CR-V repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 3)
- Door (if intrusion beam is damaged) is replaced (Line number 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62409/component/4037/itype/387/nonstandard/12983/selfRefLink/true>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Parking Sensors - Front

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Front is responsible for Front and Rear Parking Sensors on this vehicle.

The 2021 Honda CR-V repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62409/component/871/itype/387/nonstandard/13053/selfRefLink/false>

3. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System with Road Departure Mitigation on this vehicle.

The 2021 Honda CR-V repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 3)
- Door (if intrusion beam is damaged) is replaced (Line number 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62409/component/1283/itype/387/nonstandard/12658/selfRefLink/true>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Steering

4. Vehicle Stability Assist Sensor

• Reset (VSA Sensor Neutral Position Memorization)

The 2021 Honda CR-V repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Battery is repaired (Line number 55)
- Battery is installed (Line number 55)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62409/guid/nahn21cr-v_tla-R001739_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62409/component/303/itype/376/nonstandard/12988/selfRefLink/true>

Safety

5. Seat Weight Sensor

• Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2021 Honda CR-V repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62409/component/6978/itype/383/nonstandard/12364/selfRefLink/true>

6. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2021 Honda CR-V repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60120/component/611/itype/377/nonstandard/14107/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60120/component/611/itype/15/nonstandard/12522/selfRefLink/false>

7. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2021 Honda CR-V repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/

Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm



May 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Toyota Corolla L
VIN: 5YFBPRBE8LP038734

2 Required Safety Operations

There are 2 Safety operations that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Lane Departure Alert with Steering Assist
Pre-Collision System
Pre-Collision System with Pedestrian Detection
Rear Camera

Safety

1. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2020 Toyota Corolla repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:



<https://my.alldata.com/repair/#/repair/article/60332/component/465/itype/383/nonstandard/422525/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60332/component/465/itype/15/nonstandard/414416/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Toyota Corolla repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement:



https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

May 2, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Jeep Wrangler Rubicon
VIN: 1C4HJXFG9KW569538

1 Required Safety Operation

There is 1 Safety that Jeep requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Blind Spot Warning
Forward Collision Mitigation
ParkSense - Rear Parking Sensors
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2019 Jeep Wrangler repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement:

[https://my.alldata.com/ColRef/Position_Statements/
FCA,_LLC/Scan_Tool_Position_Statement.htm](https://my.alldata.com/ColRef/Position_Statements/FCA,_LLC/Scan_Tool_Position_Statement.htm)



May 2, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Mazda CX-30 GX
VIN: 3MVDMBB7XMM211395

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert

ADAS

1. Blind Spot Radar

- **Dynamic Calibration (Front Side/Rear Side Radar Sensor Aiming)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Cross-Traffic Alert on this vehicle.

The 2021 Mazda CX-30 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is installed (Line number 27)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62034/guid/na-tk21cx30-SM2774512_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62034/component/872/itype/401/nonstandard/15183/selfRefLink/false>

Safety

2. Seat Weight Sensor

- **Occupant Sensor Calibration (SWS Inspection and Calibration)**

The 2021 Mazda CX-30 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/62034/guid/na-tk21cx30-SM2780865_html

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2021 Mazda CX-30 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Mazda/Pre_and_Post-Repair_Scanning.htm



May 2, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Mitsubishi RVR ES
VIN: JA4AH3AU7KU604909

1 Required Safety Operation

There is 1 Safety that Mitsubishi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- Pre-Scan Required (Post Collision Diagnosis and Inspection)

The 2019 Mitsubishi RVR repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59808/component/6978/itype/376/nonstandard/12376/selfRefLink/true>

May 2, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Infiniti Q60 Base (A7)
VIN: JN1CV6EL7EM132339

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Infiniti requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Rear Camera

Optional ADAS Features

Forward Collision Warning
Rear Parking Sensors

ADAS

1. Front Radar

• Static Calibration (ICC Sensor Alignment)

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2014 Infiniti Q60 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1 and 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/vehicle/53422/component/1246/itype/5/nonstandard/1275532/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Radar_Recalibration_Post_Repair.htm

Steering

2. Steering Angle Sensor

• Reset (Steering Angle Sensor Neutral Position Adjustment)

The 2014 Infiniti Q60 repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 38 and 39)
- Front End Alignment is repaired (Line number 39)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/53422/component/1197/itype/387/nonstandard/1236224/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53422/component/1197/itype/387/nonstandard/1267382/selfRefLink/false>

Safety

3. Seatbelt System

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**
- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**
- **Inspection (Seatbelt Inspection)**

The 2014 Infiniti Q60 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53422/component/728/itype/383/nonstandard/1275604/selfRefLink/true>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2014 Infiniti Q60 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm



May 2, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Nissan Rogue S
VIN: 5N1AT2MV6LC789704

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Mitigation
Intelligent Emergency Braking with Pedestrian Detection
Lane Departure Prevention
Rear Camera
Rear Cross-Traffic Alert

ADAS

1. Front Radar

- **Static Calibration (ICC Sensor Alignment)**

The Front Radar is responsible for Forward Collision Mitigation, Intelligent Cruise Control, and Intelligent Emergency Braking with Pedestrian Detection on this vehicle.

The 2020 Nissan Rogue repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1 and 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60028/component/4037/itype/387/nonstandard/18820/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Radar_Recalibration_Post_Repair.htm

Safety

2. Seatbelt System

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

- **Inspection (Seatbelt Inspection)**

The 2020 Nissan Rogue repair manual states that a operation is required for the Seatbelt System when the



following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60028/component/1285/itype/383/nonstandard/13998/selfRefLink/false>

3. Vehicle Electronics

• **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Nissan Rogue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm

May 1, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Honda Civic LX
VIN: 2HGFC2F55JH044056

1 Required Steering Operation 3 Required Safety Operations

There are 1 Steering and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Steering

1. Vehicle Stability Assist Sensor

- **Reset (VSA Sensor Neutral Position Memorization)**

The 2018 Honda Civic repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 31 and 32)
- Front End Alignment is repaired (Line number 32)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/58209/guid/nah18CIVIC_TBA-R001644_enu_html

Safety

2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2018 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58208/component/6978/itype/383/nonstandard/103252/selfRefLink/false>

3. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2018 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58208/guid/nah18CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58208/component/611/itype/15/nonstandard/102316/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2018 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm

April 30, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Acura TLX Platinum Elite
VIN: 19UUB6F95NA801157

3 Required ADAS Operations 3 Required Safety Operations

There are 3 ADAS and 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Stop and Go
- Blind Spot Warning
- Collision Mitigation Braking System
- Front and Rear Parking Sensors
- Front Mounted Camera
- Head-Up Display
- Lane Keeping Assist System
- Pedestrian Impact Prevention
- Rear Cross-Traffic Monitor
- Right-Side Camera
- Surround View rear mounted camera
- Surround-View Monitor
- Traffic Sign Recognition

ADAS

1. Blind Spot Radar

- **Check Installation Angle (BSI Radar Unit Mounting Area Check)**
- **Check Installation Angle (BSI Radar Unit Aiming Inspection)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Cross-Traffic Monitor on this vehicle.

The 2022 Acura TLX repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62439/component/7821/itype/383/nonstandard/12390/selfRefLink/true>

2. Front Radar

- **Static Calibration (Millimeter Wave Radar - Aim)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go and Collision Mitigation Braking System on this vehicle.

The 2022 Acura TLX repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62439/>

component/871/itype/387/nonstandard/12346/selfRefLink/
true

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

3. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System and Lane Keeping Assist System on this vehicle.

The 2022 Acura TLX repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62439/component/1283/itype/387/nonstandard/12345/selfRefLink>true>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

4. Seat Weight Sensor

- **Operation Check (Front Passenger Weight Sensor Output Check After a Vehicle Collision)**

The 2022 Acura TLX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62439/component/6978/itype/383/nonstandard/12440/selfRefLink/true>

5. SRS Unit

- **Inspection (Read SRS Deployment History)**

The 2022 Acura TLX repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62439/guid/na-au21tlx_tgv-T002219_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62439/component/611/itype/15/nonstandard/11833/selfRefLink/true>

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2022 Acura TLX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Acura_Vehicles.htm



April 30, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Mercedes-Benz CLA-Class - 117 CLA 250
VIN: WDDSJ4GB3JN574011

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Collision Prevention Assist Plus
DISTRONIC PLUS Cruise Control
Rear Camera

Optional ADAS Features

Blind Spot Warning
Lane Departure Warning
Parking Pilot - Automated Parking Assistance

ADAS

1. Mercedes Distronic Sensor (B92, A89)

- **Vertically Align Sensor (Distronic Vertical Alignment)**
- **Dynamic Calibration (Distronic Driving Adjustment)**

The Mercedes Distronic Sensor (B92, A89) is responsible for DISTRONIC PLUS Cruise Control on this vehicle.

The 2018 Mercedes-Benz CLA-Class - 117 repair manual states that a operation is required for the Mercedes Distronic Sensor (B92, A89) when the following occurs:

- Front bumper is repaired (Line number 2 and 3)
- Grille is replaced (Line number 9 and 15)
- Four Wheel Alignment is repaired (Line number 54)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58709/component/4037/itype/401/nonstandard/110638/selfRefLink/false>

Safety

2. Headlight Assembly

- **Programming (Initial Startup and Coding)**

The 2018 Mercedes-Benz CLA-Class - 117 repair manual states that a operation is required for the Headlight Assembly when the following occurs:

- Headlamp is replaced (Line number 17)

Please see the documentation from the manufacturer below.



OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57556/guid/namb2014-2019117-ad00_00-p-2000-04a_pdf

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57556/component/536/itype/401/nonstandard/111091/selfRefLink/false>

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2018 Mercedes-Benz CLA-Class - 117 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>

April 30, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Genesis GV70 2.5T Advanced Plus
VIN: KMUMADTB9NU077871

1 Required Safety Operation

There is 1 Safety that Genesis requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Blind Spot System
Adaptive Cruise Control with Stop and Go
Front and Rear Parking Sensors
Front Cross-Traffic Alert
Front Mounted Camera
Head-Up Display
Lane Departure Prevention
Level 2 - Partial Automation (Highway Driving Assist)
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Collision Avoidance-Assist
Right-Side Camera
Surround-View Monitor
Traffic Sign Recognition with Speed Limiter

Safety

1. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2022 Genesis GV70 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Hyundai/Pre-Repair_and_Post-Repair_System_Scanning.htm



April 30, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Hyundai Tucson Luxury
VIN: KM8J3CA4XGU170668

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning

ADAS

1. Blind Spot Radar

- Dynamic Calibration (BSD Unit Alignment)
- Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.

The 2016 Hyundai Tucson repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 1 and 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/55315/component/1283/itype/401/nonstandard/10246/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/55315/component/1283/itype/21/nonstandard/10069/selfRefLink/true>

Safety

2. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2016 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

April 30, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Hyundai Palisade Ultimate Calligraphy
VIN: KM8R5DHE9MU184252

2 Required ADAS Operations 1 Required Safety Operation

There are 2 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Blind-Spot Collision-Avoidance Assist
- Following Distance Alert
- Forward Collision Avoidance Assist with Pedestrian Detection
- Forward Collision-Avoidance Assist with Pedestrian & Cyclist Detection
- Front and Rear Parking Sensors
- Front Mounted Camera
- Head-Up Display
- Lane Keep Assist
- Level 2 - Partial Automation (Highway Driving Assist)
- Rear Camera
- Rear Cross-Traffic Collision-Avoidance Assist
- Right-Side Camera
- Surround-View Monitor
- Traffic Sign Recognition with Speed Limiter

ADAS

1. Front Radar

- **Check Installation Angle (Vertical Calibration)**
- **Static or Dynamic Calibration (Forward Collision-Avoidance Assist (FCA) Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control and Forward Collision-Avoidance Assist with Pedestrian & Cyclist Detection on this vehicle.

The 2021 Hyundai Palisade repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62401/component/7821/itype/376/nonstandard/117514/selfRefLink/false>

2. Surround-View Monitor Cameras

- **Static Calibration (Manual Tolerance Compensation)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2021 Hyundai Palisade repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1 and 6)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62401/component/871/itype/387/nonstandard/117546/selfRefLink/false>

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2021 Hyundai Palisade repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



April 30, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Hyundai Santa Fe Preferred
VIN: 5NMS3DAJ3NH378724

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot System
- Adaptive Cruise Control
- Forward Collision Avoidance Assist with Pedestrian Detection
- Forward Collision-Avoidance Assist
- Lane Keeping Assist
- Level 2 - Partial Automation (Highway Driving Assist)
- Rear Camera
- Rear Collision Mitigation
- Rear Parking Sensors

ADAS

1. Blind Spot Radar

- **Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)**
- **Dynamic Calibration (BSD Radar Calibration)**

The Blind Spot Radar is responsible for Active Blind Spot System on this vehicle.

The 2022 Hyundai Santa Fe repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 3 and 4)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2\\$3_5_4_3&sitinfolist=94^9402^94020100^none^801^1^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^\\$94^9402^94020100^none^801^8^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^\\$94^9402^94020100^none^801^4^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^\\$&firstnodeDesc=Advanced%20Driver%20Assistance%20System%20\(ADAS\)&cat1=2022%20%3E%20G%202.5%20T-GDI%20THETA%20III&content_no=SHOP|ENG|6356|2022|27784|all|0|2\\$3_5_4_3|801&cntssn=65118&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2$3_5_4_3&sitinfolist=94^9402^94020100^none^801^1^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^$94^9402^94020100^none^801^8^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^$94^9402^94020100^none^801^4^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^$&firstnodeDesc=Advanced%20Driver%20Assistance%20System%20(ADAS)&cat1=2022%20%3E%20G%202.5%20T-GDI%20THETA%20III&content_no=SHOP|ENG|6356|2022|27784|all|0|2$3_5_4_3|801&cntssn=65118&printtype=content_print&imgnum=1)

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2022 Hyundai Santa Fe repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



April 30, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Volkswagen Golf (Trim Not Selected)
VIN: 3VW217AU8GM061391

2 Required ADAS Operations
1 Required Steering Operation
2 Required Safety Operations

There are 2 ADAS, 1 Steering, and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Front Assist with Automatic Emergency Braking
Lane Assist
Rear Camera

Optional ADAS Features

Automated Parking Assistance
Blind Spot Warning
Rear Cross-Traffic Alert

ADAS



1. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Adaptive Cruise Control and Front Assist with Automatic Emergency Braking on this vehicle.

The 2016 Volkswagen Golf repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1 and 2)
- Four Wheel Alignment is repaired (Line number 20)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56211/component/1246/itype/387/nonstandard/11766/selfRefLink/true>

2. Windshield Camera(s)

- **Static Calibration (Driver Assistance Systems Front Camera Calibration)**

The Windshield Camera(s) is responsible for Lane Assist on this vehicle.

The 2016 Volkswagen Golf repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Four Wheel Alignment is repaired (Line number 20)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56231/>



component/6798/itype/387/nonstandard/692414/
selfRefLink/false

OEM procedure requirement:

[https://my.alldata.com/repair/#/repair/article/56211/
component/3399/itype/376/nonstandard/10235/
selfRefLink/false](https://my.alldata.com/repair/#/repair/article/56211/component/3399/itype/376/nonstandard/10235/selfRefLink/false)

Steering

3. Steering Angle Sensor

- **Reset (Steering Angle Sensor - Basic Setting)**

The 2016 Volkswagen Golf repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 20)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://my.alldata.com/repair/#/repair/article/56211/
component/3399/itype/376/nonstandard/10235/
selfRefLink/false](https://my.alldata.com/repair/#/repair/article/56211/component/3399/itype/376/nonstandard/10235/selfRefLink/false)

Safety

4. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2016 Volkswagen Golf repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56210/guid/naw2016-2017Golf_AU1-en-US-V-K0059241221_americas-X-HX0V7WWMN BG_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56210/component/1285/itype/383/nonstandard/10571/selfRefLink/true>

5. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2016 Volkswagen Golf repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56231/component/1237/itype/376/nonstandard/750475/selfRefLink/false>

April 28, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Ford Escape SE
VIN: 1FMCU0GD8JUA13210

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Rear Camera
Rear Parking Sensors

Optional ADAS Features

Blind Spot Information System with Cross-Traffic Alert
Blind Spot Warning
Forward Collision Warning
Lane Keeping System

ADAS



1. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**
- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2018 Ford Escape repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58149/guid/nafm18escap-g1841057_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Parking Sensors - Rear

- **Operation Check (Elevation System Check)**
- **Operation Check (Azimuth System Check)**



The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2018 Ford Escape repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is replaced (Line number 5 and 12)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58149/guid/nafm18escap-g1616336_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58149/component/3716/itype/401/nonstandard/11015/selfRefLink/false>

Safety

3. Seatbelt System

• Operation Check (Road Test Inspection)

The 2018 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58149/component/1285/itype/377/nonstandard/11263/selfRefLink/false>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2018 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



April 28, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Toyota Corolla L
VIN: 5YFBPMBE9MP156876

2 Required ADAS Operations
2 Required Steering Operations
2 Required Safety Operations

There are 2 ADAS, 2 Steering, and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Lane Departure Alert with Steering Assist
Pre-Collision System
Pre-Collision System with Pedestrian Detection
Rear Camera

ADAS



1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Adaptive Cruise Control, Full-Speed Range Dynamic Radar Cruise Control, Pre-Collision System, and Pre-Collision System with Pedestrian Detection on this vehicle.

The 2021 Toyota Corolla repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1 and 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61723/guid/natty2019-2022corol-RM10000001HZHS_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61723/component/7309/itype/401/nonstandard/422314/selfRefLink/false>

2. Windshield Camera(s)

- **Static Calibration (Front Camera - Adjustment)**

The Windshield Camera(s) is responsible for Lane Departure Alert with Steering Assist, Lane Tracing Assist, Pre-Collision System, and Pre-Collision System with Pedestrian Detection on this vehicle.

The 2021 Toyota Corolla repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Four Wheel Alignment is repaired (Line number 60)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61723/component/1246/itype/5/nonstandard/421203/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61723/component/1/itype/392/nonstandard/310016/selfRefLink/true>

Steering

3. TPMS

- 
- **Programming (Code Registration and Initialization)**

The 2021 Toyota Corolla repair manual states that a operation is required for the TPMS when the following occurs:

- TPMS Sensor is replaced (Line number 26)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61723/guid/naty2019-2022corol-RM100000001KX4I_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61723/component/2353/itype/401/nonstandard/422699/selfRefLink/true>

4. Vehicle Stability Control Sensor

- **Reset (Vehicle Stability Control System - Calibration)**

The 2021 Toyota Corolla repair manual states that a operation is required for the Vehicle Stability Control Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 60)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61723/guid/natty2019-2022corol-RM10000001D2L8_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61723/component/3399/itype/376/nonstandard/424008/selfRefLink/true>

Safety

5. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2021 Toyota Corolla repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61723/>

component/465/itype/383/nonstandard/422525/
selfRefLink/false

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61723/component/465/itype/15/nonstandard/414416/selfRefLink/true>

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Toyota Corolla repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

April 28, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Infiniti Q50 (Trim Not Selected)
VIN: JN1EV7AR1KM550187

3 Required ADAS Operations
2 Required Steering Operations
2 Required Safety Operations
1 Required Operational Operation
3 Required Comfort & Convenience Operations

There are 3 ADAS, 2 Steering, 2 Safety, 1 Operational, and 3 Comfort & Convenience that Infiniti requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Predictive Forward Collision Warning with Forward Emergency Braking
Rear Camera
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Active Blind Spot System
Blind Spot Warning
Following Distance Alert
Front and Rear Parking Sensors
Front Mounted Camera
Intelligent Cruise Control
Lane Departure Prevention
Rear Collision Mitigation

ADAS

1. Front Radar

- **Static Calibration (ICC Sensor Alignment)**

The Front Radar is responsible for Intelligent Cruise Control and Predictive Forward Collision Warning with Forward Emergency Braking on this vehicle.

The 2019 Infiniti Q50 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 2 and 3)
- Four Wheel Alignment is repaired (Line number 68)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59536/component/4037/itype/387/nonstandard/21645/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Infiniti/Radar_Recalibration_Post-Repair.htm

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59536/component/4037/itype/387/nonstandard/21633/selfRefLink/false>

2. Rear Camera

- **Reset (Predictive Course Line Center Position Adjustment)**
- **Fine Tuning (Rear View Camera - Adjustment)**

The Rear Camera is responsible for Rear Camera on this vehicle.

The 2019 Infiniti Q50 repair manual states that a operation is required for the Rear Camera when the following occurs:

- Battery is installed (Line number 70)
- Battery is repaired (Line number 70)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59536/component/1283/itype/387/nonstandard/21231/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59536/component/303/itype/387/nonstandard/10062/selfRefLink/false>

3. Surround-View Monitor Cameras

- **Static Calibration (Calibrating Camera Image)**
- **Reset (Predictive Course Line Center Position Adjustment)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2019 Infiniti Q50 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 2, 3, and 6)
- Grille is installed (Line number 17)
- Side Mirror is installed (Line number 46)
- Battery is repaired (Line number 70)
- Battery is installed (Line number 70)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59536/guid/nain19q50-SIEMD-4485637_html

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59536/component/1283/itype/387/nonstandard/21231/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/59534/guid/nain19q50-RPR-000923514_html

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/59536/guid/nain19q50-SIEMD-4485589_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59536/component/303/itype/387/nonstandard/10062/selfRefLink/false>

Steering

4. Direct Adaptive Steering

- **Programming (Direct Adaptive Steering Configuration and Calibration)**

The 2019 Infiniti Q50 repair manual states that a operation is required for the Direct Adaptive Steering when the following occurs:

- Four Wheel Alignment is repaired (Line number 68)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62303/component/6/itype/377/nonstandard/14834/selfRefLink/false>

5. Steering Angle Sensor

- **Reset (Steering Angle Sensor Neutral Position Adjustment)**

The 2019 Infiniti Q50 repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 68)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59536/guid/na-in19q50-SIEMD-4490789_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59536/component/585/itype/387/nonstandard/15748/selfRefLink/false>



Safety

6. Seatbelt System

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**
- **Inspection (Seatbelt Inspection)**
- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**

The 2019 Infiniti Q50 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59536/component/728/itype/383/nonstandard/17108/selfRefLink/false>

7. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Infiniti Q50 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Infiniti/Pre-_and_Post-Repair_Scanning.htm



Operational

8. Power Window System

- **Initialization (Power Window Control Unit Initialization)**

The 2019 Infiniti Q50 repair manual states that a operation is required for the Power Window System when the following occurs:

- Battery is repaired (Line number 70)
- Battery is installed (Line number 70)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59536/guid/na-in19q50-SIEMD-4458614_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59536/component/303/itype/387/nonstandard/10062/selfRefLink/false>

Comfort & Convenience

9. Automatic Air Conditioning System

- **Reset (Reset Memory Functions)**

The 2019 Infiniti Q50 repair manual states that a operation is required for the Automatic Air Conditioning System when the following occurs:

- Battery is replaced (Line number 70)
- Battery is installed (Line number 70)

Please see the documentation from the manufacturer below.



OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59536/component/303/itype/387/nonstandard/10062/https://my.alldata.com/repair/#/repair/article/59536/component/303/itype/387/nonstandard/10062/selfRefLink/falsefalseRefLink/false>

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59536/component/303/itype/387/nonstandard/10062/selfRefLink/false>

10. Automatic Drive Positioner System

- **Reset (Seat Memory and Intelligent Key Reset)**

The 2019 Infiniti Q50 repair manual states that a operation is required for the Automatic Drive Positioner System when the following occurs:

- Battery is repaired (Line number 70)
- Battery is installed (Line number 70)

Please see the documentation from the manufacturer below.



OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59536/guid/na-in19q50-SIEMD-4457388_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59536/component/303/itype/387/nonstandard/10062/selfRefLink/false>

11. Sunroof System

• Initialization (Sunroof Initialization)

The 2019 Infiniti Q50 repair manual states that a operation is required for the Sunroof System when the following occurs:

- Battery is repaired (Line number 70)
- Battery is installed (Line number 70)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59536/guid/na-in19q50-SIEMD-4458689_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59536/component/303/itype/387/nonstandard/10062/selfRefLink/false>



April 28, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Honda Odyssey EX
VIN: 5FNRL6H47JB500796

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Collision Mitigation Braking System
Collision Mitigation Braking System
Rear Camera
Rear Parking Sensors
Right-Side Camera
Road Departure Mitigation

ADAS



1. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2018 Honda Odyssey repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 1, 2, and 5)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57681/component/4/itype/387/nonstandard/13323/selfRefLink/true>

Safety

2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2018 Honda Odyssey repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57681/component/6978/itype/383/nonstandard/13455/>

selfRefLink/false

3. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2018 Honda Odyssey repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57681/guid/nah18ODYSSEY_THR-T004552_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57681/component/611/itype/15/nonstandard/12818/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2018 Honda Odyssey repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm

April 28, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Hyundai Tucson Luxury
VIN: KM8JCCA13NU028875

- 1 Required ADAS Operation**
- 1 Required Steering Operation**
- 1 Required Safety Operation**

There are 1 ADAS, 1 Steering, and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Stop and Go
- Blind-Spot Collision-Avoidance Assist
- Forward Collision Avoidance Assist with Pedestrian Detection
- Front Cross-Traffic Alert
- Lane Keeping Assist
- Level 2 - Partial Automation (Highway Driving Assist)
- Rear Camera
- Rear Cross-Traffic Collision-Avoidance Assist
- Rear Parking Sensors
- Traffic Sign Recognition with Speed Limiter

ADAS

1. Front Radar

- **Check Installation Angle (Vertical Calibration)**
- **Static Calibration (Smart Cruise Control (SCC) Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2022 Hyundai Tucson repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1 and 2)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62714/component/7821/itype/376/nonstandard/19032/selfRefLink/true>

Steering

2. Steering Angle Sensor

- **Midpoint Setting (ASP Calibration)**

The 2022 Hyundai Tucson repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 21 and 22)
- Front End Alignment is repaired (Line number 22)

Please see the documentation from the manufacturer below.

OEM procedure instructions:



<https://my.alldata.com/repair/#/repair/article/62714/component/3915/itype/376/nonstandard/18577/selfRefLink/false>

OEM procedure requirement:

<https://static.nhtsa.gov/odi/tsbs/2020/MC-10172142-0001.pdf>

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2022 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

April 28, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Audi Q5 S line Premium Plus
VIN: WA1EAAFY4N2084996

3 Required ADAS Operations 2 Required Safety Operations

There are 3 ADAS and 2 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Audi Pre Sense City - Forward Collision Mitigation
Audi Pre Sense City - Pedestrian Impact Prevention
Audi Side Assist
Front and Rear Parking Sensors
Front Mounted Camera
Right-Side Camera
Surround-View Monitor
Top View Camera System
Traffic Jam Assist

Optional ADAS Features

Audi Active Lane Assist
Level 2 - Partial Automation (Highway Driving Assist)
Rear Collision Mitigation

ADAS

1. Blind Spot Radar

- **Static Calibration (Lane Change Assistance Calibration)**

The Blind Spot Radar is responsible for Audi Side Assist on this vehicle.

The 2022 Audi Q5 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 7, 8, and 10)
- Rear bumper is installed (Line number 7 and 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61201/guid/nad2018-2020q5_fyb-en-US-A-A005A021521_americax-1A701549YUPUBL_html#X-1A701549YUPUBL

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61201/component/871/itype/401/nonstandard/1103471/selfRefLink/false>

2. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go and Traffic Jam Assist on this vehicle.

The 2022 Audi Q5 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1 and 2)
- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.



OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61201/component/1246/itype/5/nonstandard/1105004/selfRefLink/false>

3. Surround-View Monitor Cameras

- **Static Calibration (Peripheral Camera Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera, Surround-View Monitor, and Top View Camera System on this vehicle.

The 2022 Audi Q5 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/61201/guid/na-ad2018-2020q5_fyb-en-US-A-A005A021621_americas-X-84Z7CX_html#X-AH07CX

Safety

4. Seatbelt System

- **Check Installation Angle (Seatbelts Condition and Function Check)**

The 2022 Audi Q5 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61200/guid/nad2018-2020q5_fyb-en-US-A-A005A022521_americax-X-0S851RK5HOC_html#X-0S851RK5HOC

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61200/component/1285/itype/383/nonstandard/114564/selfRefLink/false>

5. Vehicle Electronics

- **Inspection (Seatbelts Condition and Function Check)**
- **OEM Pre-Scan (Airbag Control Module Crash Entry Check)**

The 2022 Audi Q5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61200/component/6978/itype/376/nonstandard/114561/selfRefLink/false>

April 28, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Cadillac Escalade Sport
VIN: 1GYS4NKL2MR445787

2 Required Safety Operations

There are 2 Safety that Cadillac requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Automated Parking Assistance
Enhanced Automatic Emergency Braking
Front Mounted Camera
Front Pedestrian Braking
Head-Up Display
Lane Change Alert with Side Blind Zone Alert
Lane Keep Assist with Lane Departure Warning
Rear Camera
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Adaptive Cruise Control
Adaptive Cruise Control with Stop and Go
Level 2 - Partial Automation (Highway Driving Assist)
Night Vision
Rear Collision Warning
Reverse Automatic Braking
Super Cruise

Safety

1. Repairs and Inspections Required After a Collision

- Operation Check (Emergency Locking Retractor Dynamic Function Test)
- Inspection (Post Collision Safety Inspection)

The 2021 Cadillac Escalade repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2021 Cadillac Escalade repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

April 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Chevrolet Volt Premier
VIN: 1G1RB6S58HU110465

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Automated Parking Assistance
Following Distance Alert
Forward Collision Alert with Automatic Braking
Lane Keep Assist
Rear Camera

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
Forward Collision Mitigation
Lane Change Alert with Side Blind Zone Alert
Rear Cross-Traffic Alert

ADAS

1. Windshield Camera(s)

- **Dynamic Calibration (Front View Camera Module - Learn)**

The Windshield Camera(s) is responsible for Following Distance Alert, Forward Collision Alert with Automatic Braking, and Lane Keep Assist on this vehicle.

The 2017 Chevrolet Volt repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Four Wheel Alignment is repaired (Line number 30)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56376/guid/nagc17volt-2692201_html

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/gm-driver-assistance-systems-aid.pdf>

Steering

2. Steering Angle Sensor

- **Reset (Steering Position Sensor Calibration)**

The 2017 Chevrolet Volt repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 30)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56376/component/3474/itype/376/nonstandard/10687/selfRefLink/false>

Safety

3. Repairs and Inspections Required After a Collision

- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**
- **Inspection (Post Collision Safety Inspection)**

The 2017 Chevrolet Volt repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2017 Chevrolet Volt repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>



April 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Chevrolet Cruze LT
VIN: 3G1BE5SM9HS501926

2 Required Safety Operations

There are 2 Safety operations that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Lane Change Alert with Side Blind Zone Alert
Rear Cross-Traffic Alert
Rear Parking Sensors

Safety

1. Repairs and Inspections Required After a Collision

- Operation Check (Emergency Locking Retractor Dynamic Function Test)
- Inspection (Post Collision Safety Inspection)

The 2017 Chevrolet Cruze repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Chevrolet Cruze repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

April 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Honda Civic EX
VIN: 2HGFC2F8XHH008965

2 Required ADAS Operations
1 Required Steering Operation
3 Required Safety Operations

There are 2 ADAS, 1 Steering, and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera
Right-Side Camera

ADAS

1. Front Radar

- **Vertically Align Sensor (Vertical Radar Aim)**
- **Static Calibration (Horizontal Radar Aim)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow and Collision Mitigation Braking System on this vehicle.

The 2017 Honda Civic repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1)
- Front bumper (if damaged within 300mm of radar) is replaced (Line number 2)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 9 and 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57012/component/1283/itype/387/nonstandard/102665/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Lane Keeping Assist System on this vehicle.

The 2017 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 9 and 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57012/component/1283/itype/387/nonstandard/102664/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Steering

3. Vehicle Stability Assist Sensor

- **Reset (VSA Sensor Neutral Position Memorization)**

The 2017 Honda Civic repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 64)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57012/guid/nah17CIVIC_TBA-R001644_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57012/component/3399/itype/376/nonstandard/103787/selfRefLink/false>

Safety

4. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2017 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57011/>



component/6978/itype/383/nonstandard/103231/
selfRefLink/false

5. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2017 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57011/guid/nah17CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57011/component/611/itype/15/nonstandard/102293/selfRefLink/false>

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**



The 2017 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm

April 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Ford F-150 XL
VIN: 1FTEW1EB4LKE53454

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Ford Co-Pilot360 - Pre-Collision Assist with Automatic Emergency Braking
Rear Camera
Rear Parking Sensors

Optional ADAS Features

Pro-Trailer Backup Assist

ADAS

1. Parking Sensors - Rear

- **Operation Check (Elevation System Check)**
- **Operation Check (Azimuth System Check)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2020 Ford F-150 repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 1, 2, and 4)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60659/guid/nafm20fstrk1-g1712428_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60659/component/7302/itype/402/nonstandard/111344/selfRefLink/true>

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2020 Ford F-150 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60659/component/1285/itype/377/nonstandard/111011/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Ford F-150 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

April 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 GMC Sierra 1500 SLE
VIN: 1GTU9BED5KZ200627

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that GMC requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Following Distance Indicator
Lane Keep Assist with Lane Departure Warning
Low-Speed Forward Automatic Braking

Optional ADAS Features

Front and Rear Parking Sensors
Lane Change Alert with Side Blind Zone Alert
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Alert
Rear Parking Sensors

ADAS

1. Windshield Camera(s)

- **Dynamic Calibration (Front View Camera Module Learn)**

The Windshield Camera(s) is responsible for Following Distance Indicator, Lane Keep Assist with Lane Departure Warning, and Low-Speed Forward Automatic Braking on this vehicle.

The 2019 GMC Sierra 1500 repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 2)
- Front Reinforcement Bar is installed (Line number 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59515/component/6798/itype/387/nonstandard/16044/selfRefLink/false>

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/gm-driver-assistance-systems-aid.pdf>

Safety



2. Repairs and Inspections Required After a Collision

- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2019 GMC Sierra 1500 repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 GMC Sierra 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

April 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Hyundai Tucson SE
VIN: KM8J3CA28HU265049

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Detection
Rear Camera
Rear Collision Warning

ADAS

1. Blind Spot Radar

- Dynamic Calibration (BSD Unit Alignment)
- Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)

The Blind Spot Radar is responsible for Blind Spot Detection and Rear Collision Warning on this vehicle.

The 2017 Hyundai Tucson repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 70 and 72)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56962/component/7821/itype/376/nonstandard/3101546/selfRefLink/true>

Safety

2. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2017 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

April 26, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Ford Transit Van Base w/Sliding Pass-Side Cargo-Door
VIN: 1FTYE1YM0HKA15941

1 Required Safety Operation

There is 1 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Lane Departure Warning
Rear Parking Sensors

Safety

1. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2017 Ford Transit Van repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56772/component/1285/itype/377/nonstandard/10974/selfRefLink/false>

Potential Safety

2. Vehicle Electronics (Potential)

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2017 Ford Transit Van repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

April 26, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Hyundai Tucson SE
VIN: KM8J3CA28HU265049

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Detection
Rear Camera
Rear Collision Warning

ADAS

1. Windshield Camera(s)

- **Static Calibration (Service Point Target Auto Calibration (SPTAC))**

The 2017 Hyundai Tucson repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is replaced (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

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<https://my.alldata.com/repair/#/repair/article/56962/component/7848/itype/376/nonstandard/3101538/selfRefLink/true>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2017 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



April 25, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Ford Mustang EcoBoost
VIN: 1FA6P8THXG5313937

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

ADAS

1. Parking Sensors - Rear

- Operation Check (Elevation System Check)
- Operation Check (Azimuth System Check)

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2016 Ford Mustang repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 11, 18, and 19)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/55423/guid/nafm16musta-g1672936_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/55423/component/7300/itype/402/nonstandard/10810/selfRefLink/false>

Safety

2. Seatbelt System

- **Operation Check (Road Test Inspection)**



The 2016 Ford Mustang repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/55423/component/1285/itype/377/nonstandard/11128/selfRefLink/false//my.alldata.com/repair/#/repair/article/61360/component/1285/itype/377/nonstandard/110961/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/55423/component/1285/itype/377/nonstandard/11128/selfRefLink/false>

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2016 Ford Mustang repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



April 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Hyundai Tucson SE
VIN: KM8J3CA49JU738366

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert

Safety

1. Vehicle Electronics

• Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2018 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position->

statements/31340.pdf



April 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Lexus RX (Trim Not Selected)
VIN: 2T2BK1BA5DC179206

3 Required Safety Operations

There are 3 Safety that Lexus requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Adaptive Cruise Control
Blind Spot Warning
Forward Collision Warning
Front and Rear Parking Sensors
Head-Up Display
Rear Camera

Safety



1. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2013 Lexus RX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52107/component/1236/itype/387/nonstandard/111907/selfRefLink/false>

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2013 Lexus RX repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52107/component/465/itype/15/nonstandard/112089/selfRefLink/false>

3. Vehicle Electronics

- Pre- and Post-Scan Required (Health Check Diagnostic Scans)

The 2013 Lexus RX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



April 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Toyota Corolla (Trim Not Selected)
VIN: JTNK4MBE4N3176922

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Monitor
Lane Departure Alert with Steering Assist
Pedestrian Impact Prevention
Pre-Collision System
Rear Camera
Rear Cross-Traffic Alert

Optional ADAS Features

Adaptive Cruise Control
Full-Speed Range Dynamic Radar Cruise Control
Lane Tracing Assist
Level 2 - Partial Automation (Highway Driving Assist)

ADAS

1. Blind Spot Radar

- **Inspection (Visually Inspect Installation Area for Damage)**
- **Check Installation Angle (Blind Spot Monitor Sensor Installation Condition Inspection)**

The Blind Spot Radar is responsible for Blind Spot Monitor and Rear Cross-Traffic Alert on this vehicle.

The 2022 Toyota Corolla repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 1 and 4)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/63027/component/7821/itype/5/nonstandard/421402/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/63027/component/7302/itype/401/nonstandard/419076/selfRefLink/false>

Safety

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2022 Toyota Corolla repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/63027/component/465/itype/383/nonstandard/422525/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/63027/component/465/itype/15/nonstandard/414416/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 Toyota Corolla repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

April 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Ford Escape Titanium
VIN: 1FMCU9J92HUD01128

3 Required ADAS Operations 2 Required Safety Operations

There are 3 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Automated Parking Assistance
Blind Spot Warning
Rear Camera
Rear Collision Warning
Rear Parking Sensors

Optional ADAS Features

Forward Collision Warning
Lane Keeping System

ADAS

1. Active Park Assist Sensors

- **Operation Check (Azimuth System Check)**

The Active Park Assist Sensors is responsible for Automated Parking Assistance on this vehicle.

The 2017 Ford Escape repair manual states that a operation is required for the Active Park Assist Sensors when the following occurs:

- Rear bumper is installed (Line number 5, 6, 15, and 17)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56558/guid/nafm17escap-g1835199_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56558/component/7300/itype/402/nonstandard/11044/selfRefLink/false>

2. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**

- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2017 Ford Escape repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56558/guid/nafm17escap-g1841057_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

3. Parking Sensors - Rear

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2017 Ford Escape repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 5, 6, 15, and 17)
- Parking Sensor - Rear is installed (Line number 11 and 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56558/guid/nafm17escap-g1616336_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56558/component/3716/itype/401/nonstandard/11028/selfRefLink/false>

Safety



4. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2017 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56558/component/1285/itype/377/nonstandard/11305/selfRefLink/falseta.com/repair/#/repair/article/61360/component/1285/itype/377/nonstandard/110961/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56558/component/1285/itype/377/nonstandard/11305/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

April 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Hyundai Kona Luxury
VIN: KM8K6CAAXLU526533

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Blind Spot Warning
- Forward Collision-Avoidance Assist
- Lane Departure Warning System
- Pedestrian Impact Prevention
- Rear Camera
- Rear Cross-Traffic Collision Warning

ADAS

1. Front Radar

- **Check Installation Angle (Vertical Calibration)**
- **Static Calibration (Forward Collision-Avoidance Assist (FCA) Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2020 Hyundai Kona repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1 and 2)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60784/component/1283/itype/376/nonstandard/21292/selfRefLink/true>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2020 Hyundai Kona repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

April 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Toyota Venza (Trim Not Selected)
VIN: 4T3BA3BB0GU077981

1 Required Safety Operation

There is 1 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2016 Toyota Venza repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



[https://my.alldata.com/ColRef/Collision_Reference.htm?
slInfo=0x3c79b#t=Position_Statements%2FToyota
%2C_Lexus%2C_Scion
%2FCRIB___191_Scanning_for_Electrical_Faults.htm](https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm)



April 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Ram 1500 Warlock
VIN: 1C6RR7LGXMS548460

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

ParkSense - Rear Parking Sensors
Rear Camera

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2021 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://my.alldata.com/ColRef/Position_Statements/
FCA,_LLC/Scan_Tool_Position_Statement.htm](https://my.alldata.com/ColRef/Position_Statements/FCA,_LLC/Scan_Tool_Position_Statement.htm)

April 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Acura TLX w/Advance Pkg
VIN: 19UUB3F75JA800307

5 Required ADAS Operations
2 Required Steering Operations
2 Required Safety Operations

There are 5 ADAS, 2 Steering, and 2 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Blind Spot Information System
Collision Mitigation Braking System
Front and Rear Parking Sensors
Front Mounted Camera
Lane Departure Prevention
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Monitor
Right-Side Camera
Surround-View Monitor

ADAS



1. Blind Spot Radar

- **Static Calibration (BSI Radar Unit Aiming Inspection)**
- **Check Installation Angle (BSI Radar Unit Mounting Area Check)**

The Blind Spot Radar is responsible for Blind Spot Information System and Rear Cross-Traffic Monitor on this vehicle.

The 2018 Acura TLX repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 21)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57705/component/7821/itype/383/nonstandard/103299/selfRefLink/false>



2. Front Radar

- **Static Calibration (Horizontal Aiming)**
- **Vertically Align Sensor (Vertical Aiming)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go and Collision Mitigation Braking System on this vehicle.

The 2018 Acura TLX repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 21)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57705/component/1283/itype/387/nonstandard/103285/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

3. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors on this vehicle.

The 2018 Acura TLX repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 25)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57705/component/4/itype/387/nonstandard/103462/selfRefLink/true>

4. Surround-View Monitor Cameras

- **Operation Check (Multi View Camera Picture Inspection)**
- **Static Calibration (Multi View Camera Aiming)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2018 Acura TLX repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Side Mirror is installed (Line number 6)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/57705/guid/na-au18TLX_TZ3-R008737_enu_html

5. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System and Lane Departure Prevention on this vehicle.

The 2018 Acura TLX repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 21)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57705/component/1283/itype/387/nonstandard/103284/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Steering

6. Steering Angle Sensor

- **Reset (Steering Angle Sensor Neutral Position Clear)**

The 2018 Acura TLX repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 39 and 40)
- Front End Alignment is repaired (Line number 40)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57706/guid/na-au18TLX_TZ3-R005446_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57706/component/3399/itype/376/nonstandard/103425/selfRefLink/false>

7. Vehicle Stability Assist Sensor

- **Reset (VSA Sensor Neutral Position Memorization)**

The 2018 Acura TLX repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 39 and 40)
- Front End Alignment is repaired (Line number 40)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57706/guid/na-au18TLX_TZ3-R000928_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57706/component/3399/itype/376/nonstandard/103425/selfRefLink/false>

Safety

8. Seat Weight Sensor

- **Operation Check (Front Passenger Weight Sensor Output Check After a Vehicle Collision)**

The 2018 Acura TLX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57706/component/6978/itype/383/nonstandard/103436/selfRefLink/false>

9. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2018 Acura TLX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Acura_Vehicles.htm



April 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Subaru Crosstrek Limited
VIN: JF2GTHNC0M8315204

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Blind Spot Warning
- EyeSight - Adaptive Cruise Control
- EyeSight - Lane Keep Assist
- EyeSight - Pre-Collision Braking
- EyeSight - Pre-Collision Braking
- Rear Camera
- Reverse Automatic Braking

ADAS

1. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Camera adjustment and function check)

The Windshield Camera(s) is responsible for EyeSight - Adaptive Cruise Control, EyeSight - Lane Keep Assist, EyeSight - Pre-Collision Braking, and EyeSight - Pre-Collision Braking on this vehicle.

The 2021 Subaru Crosstrek repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61926/guid/nasb21xv-s936a40e45_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61926/component/1283/itype/15/nonstandard/10620/selfRefLink/false>

Safety



2. Occupant Sensor

- OEM Pre-Scan (Read Airbag module, check for DTC B1650 or B1655)

The 2021 Subaru Crosstrek repair manual states that a operation is required for the Occupant Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61926/guid/nasb21xv-s067501e45_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61926/component/6978/itype/376/nonstandard/19456/selfRefLink/true>

3. Vehicle Electronics

- Inspection (Safety System Inspection After a Collision)

The 2021 Subaru Crosstrek repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61926/component/6978/itype/376/nonstandard/19456/selfRefLink/true>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Subaru Crosstrek repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre_and_Post_Scanning_of_Collision_Vehicles.htm



April 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Subaru Crosstrek Limited
VIN: JF2GTHNC0M8315204

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Blind Spot Warning
- EyeSight - Adaptive Cruise Control
- EyeSight - Lane Keep Assist
- EyeSight - Pre-Collision Braking
- EyeSight - Pre-Collision Braking
- Rear Camera
- Reverse Automatic Braking

ADAS

1. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Camera adjustment and function check)

The Windshield Camera(s) is responsible for EyeSight - Adaptive Cruise Control, EyeSight - Lane Keep Assist, EyeSight - Pre-Collision Braking, and EyeSight - Pre-Collision Braking on this vehicle.

The 2021 Subaru Crosstrek repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61926/guid/nasb21xv-s936a40e45_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61926/component/1283/itype/15/nonstandard/10620/selfRefLink/false>

Safety



2. Occupant Sensor

- OEM Pre-Scan (Read Airbag module, check for DTC B1650 or B1655)

The 2021 Subaru Crosstrek repair manual states that a operation is required for the Occupant Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61926/guid/nasb21xv-s067501e45_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61926/component/6978/itype/376/nonstandard/19456/selfRefLink/true>

3. Vehicle Electronics

- Inspection (Safety System Inspection After a Collision)

The 2021 Subaru Crosstrek repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61926/component/6978/itype/376/nonstandard/19456/selfRefLink/true>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Subaru Crosstrek repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre_and_Post_Scanning_of_Collision_Vehicles.htm



April 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Volkswagen Beetle (Trim Not Selected)
VIN: 3VWJ07AT8GM614997

2 Required Safety Operations

There are 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Blind Spot Warning
Rear Collision Warning

Safety

1. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2016 Volkswagen Beetle repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56220/component/728/itype/376/nonstandard/1103908/selfRefLink/false>

2. Vehicle Electronics

• OEM Pre-Scan (Vehicle Electronics Inspection)

The 2016 Volkswagen Beetle repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57437/component/6978/itype/376/nonstandard/1101072/selfRefLink/false>



April 20, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Ford Bronco Sport Outer Banks
VIN: 3FMCR9C64MRB39931

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Stop and Go
- Blind Spot Warning
- Ford Co-Pilot360 - Automatic Emergency Braking
- Lane Departure Prevention
- Pedestrian Impact Prevention
- Rear Camera
- Rear Collision Warning
- Rear Parking Sensors

Optional ADAS Features

- Evasion Assist System
- Level 2 - Partial Automation (Highway Driving Assist)
- Traffic Sign Recognition with Speed Limiter

ADAS

1. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**
- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2021 Ford Bronco Sport repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62199/guid/nafm21broncsp-g2192373_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2021 Ford Bronco Sport repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62199/component/1285/itype/376/nonstandard/110424/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Ford Bronco Sport repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

April 20, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Lexus RX (Trim Not Selected)
VIN: 2T2BZMCA5HC059360

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Lexus requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- All-Speed Dynamic Radar Cruise Control
- Intuitive Park Assist - Front and Rear Parking Sensors
- Lane Keep Assist
- Pedestrian Impact Prevention
- Pre-Collision System
- Rear Camera
- Right-Side Camera
- Surround-View Monitor

Optional ADAS Features

- Blind Spot Warning
- Front Mounted Camera
- Head-Up Display
- Rear Collision Mitigation

ADAS

1. Parking Sensors - Front

- **Static Calibration (Registration)**
- **Check Installation Angle (Sensor Height and Alignment Inspection)**

The Parking Sensors - Front is responsible for Intuitive Park Assist - Front and Rear Parking Sensors on this vehicle.

The 2017 Lexus RX repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/57029/guid/nax2016-2022rx350-RM10000001017F_html

2. Surround-View Monitor Cameras

- **Static Calibration (Panoramic View Monitor System - Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2017 Lexus RX repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1)
- Side Mirror is installed (Line number 13)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/57029/guid/nax2016-2022rx350-RM10000001017F_html

Safety

3. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2017 Lexus RX repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57029/component/465/itype/383/nonstandard/210885/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57029/component/465/itype/15/nonstandard/210883/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Health Check Diagnostic Scans)**

The 2017 Lexus RX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



[https://my.alldata.com/ColRef/Collision_Reference.htm?
slInfo=0x3c79b#t=Position_Statements%2FToyota
%2C_Lexus%2C_Scion
%2FCRIB___191_Scanning_for_Electrical_Faults.htm](https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm)



April 19, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Audi A6 Prestige
VIN: WAUM2AF2XLN054016

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Stop and Go
- Audi Active Lane Assist
- Audi Pre Sense City - Pedestrian Impact Prevention
- Audi Pre Sense Front
- Audi Pre Sense Rear
- Audi Side Assist
- Front and Rear Parking Sensors
- Front Mounted Camera
- Head-Up Display
- Level 2 - Partial Automation (Highway Driving Assist)
- Rear Camera
- Right-Side Camera
- Surround-View Monitor
- Traffic Jam Assist
- Traffic Sign Recognition

ADAS

1. Windshield Camera(s)

- **Static or Dynamic Calibration (Driver Assistance Systems Front Camera Calibration)**

The Windshield Camera(s) is responsible for Audi Active Lane Assist, Audi Pre Sense City - Pedestrian Impact Prevention, and Traffic Jam Assist on this vehicle.

The 2020 Audi A6 repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://erwin.audiusa.com/erwin/showArticleProperties.do?articleId=178213>

Safety

2. Vehicle Electronics

- **OEM Pre-Scan (Airbag Control Module Crash Entry Check)**

- **Inspection (Seatbelts Condition and Function Check)**

The 2020 Audi A6 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://erwin.audiusa.com/erwin/showArticleProperties.do?
articleId=177535](https://erwin.audiusa.com/erwin/showArticleProperties.do?articleId=177535)



April 19, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Chevrolet Silverado 1500 RST
VIN: 1GCUYEET4MZ143531

2 Required Safety Operations

There are 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Hitch Guidance - Trailer Backup Assist

Optional ADAS Features

Front and Rear Parking Sensors
Lane Change Alert with Side Blind Zone Alert
Pickup Box Camera
Rear Camera
Rear Cross-Traffic Alert

Safety



1. Repairs and Inspections Required After a Collision

- **Inspection (Post Collision Safety Inspection)**
- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2021 Chevrolet Silverado 1500 repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Chevrolet Silverado 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

April 18, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Ford Bronco Sport Big Bend
VIN: 3FMCR9B68NRE08094

- 1 Required ADAS Operation**
- 2 Required Safety Operations**
- 1 Required Operational Operation**

There are 1 ADAS, 2 Safety, and 1 Operational that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Stop and Go
- Blind Spot Warning
- Ford Co-Pilot360 - Pre-Collision Assist with Automatic Emergency Braking
- Lane Departure Prevention
- Pedestrian Impact Prevention
- Rear Camera
- Rear Collision Warning

Optional ADAS Features

- Evasion Assist System
- Level 2 - Partial Automation (Highway Driving Assist)
- Rear Parking Sensors
- Traffic Sign Recognition with Speed Limiter

ADAS

1. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2022 Ford Bronco Sport repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62199/guid/nafm21broncsp-g2192373_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

Safety

2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2022 Ford Bronco Sport repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62199/component/1285/itype/376/nonstandard/110424/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 Ford Bronco Sport repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

Operational

4. Power Window System

• Initialization (Power Door Window Initialization)

The 2022 Ford Bronco Sport repair manual states that a operation is required for the Power Window System when the following occurs:

- Front Door is replaced (Line number 18)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62199/component/429/itype/387/nonstandard/110542/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62199/component/7114/itype/401/nonstandard/110546/selfRefLink/false>

April 18, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Chrysler Pacifica Limited
VIN: 2C4RC1GGXKR636876

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Chrysler requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Stop and Go
- Automated Parking Assistance
- Blind Spot Detection
- Forward Collision Mitigation
- Front Mounted Camera
- Lane Keep Assist
- Rear Camera
- Rear Cross-Path Detection
- Right-Side Camera
- Surround-View Monitor

ADAS

1. Surround-View Monitor Cameras

- **Dynamic Calibration (CVPM Service Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2019 Chrysler Pacifica repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is repaired (Line number 5 and 9)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59177/component/1283/itype/387/nonstandard/1100231/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59177/component/1283/itype/392/nonstandard/1100193/selfRefLink/false>

Safety

2. Vehicle Electronics

- **OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)**

The 2019 Chrysler Pacifica repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://my.alldata.com/ColRef/Position_Statements/
FCA,_LLC/Scan_Tool_Position_Statement.htm](https://my.alldata.com/ColRef/Position_Statements/FCA,_LLC/Scan_Tool_Position_Statement.htm)



April 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Chevrolet Silverado 1500 RST
VIN: 1GCUYEET4MZ143531

2 Required Safety Operations

There are 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Hitch Guidance - Trailer Backup Assist

Optional ADAS Features

Front and Rear Parking Sensors
Lane Change Alert with Side Blind Zone Alert
Pickup Box Camera
Rear Camera
Rear Cross-Traffic Alert

Safety



1. Repairs and Inspections Required After a Collision

- **Inspection (Post Collision Safety Inspection)**
- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2021 Chevrolet Silverado 1500 repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Chevrolet Silverado 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

April 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Chevrolet Malibu LT
VIN: 1G1ZD5ST5KF152297

2 Required Safety Operations

There are 2 Safety operations that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Blind Spot Warning
Following Distance Indicator
Forward Collision Alert
Front Pedestrian Braking
Lane Keep Assist with Lane Departure Warning
Level 2 - Partial Automation (Highway Driving Assist)
Low-Speed Forward Automatic Braking
Rear Cross-Traffic Alert
Rear Parking Sensors

Safety



1. Repairs and Inspections Required After a Collision

- **Inspection (Post Collision Safety Inspection)**
- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2019 Chevrolet Malibu repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Chevrolet Malibu repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

April 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Honda Civic Sport
VIN: 2HGFE2F53NH123158

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System with Road Departure Mitigation
Level 2 - Partial Automation (Highway Driving Assist)
Rear Camera
Traffic Jam Assist
Traffic Sign Recognition

ADAS

1. Windshield Camera(s)

- **Static or Dynamic Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, Lane Keeping Assist System with Road Departure Mitigation, and Traffic Jam Assist on this vehicle.

The 2022 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Door (if intrusion beam is damaged) is replaced (Line number 8)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 22)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/service.html?package=61T20&lang=enu&sie=R005947_enu

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2022 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=R001475_enu

3. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2022 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=T002634_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=G001469_enu

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2022 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm



April 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Hyundai Tucson GL
VIN: KM8JTCAC8DU703300

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2013 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

April 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Ram 2500 Laramie Longhorn
VIN: 3C6UR5GL9DG516757

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2013 Ram 2500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://my.alldata.com/ColRef/Position_Statements/
FCA,_LLC/Scan_Tool_Position_Statement.htm](https://my.alldata.com/ColRef/Position_Statements/FCA,_LLC/Scan_Tool_Position_Statement.htm)

April 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Hyundai Santa Fe Ultimate
VIN: 5NMS5CAA2KH097031

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot System
- Adaptive Cruise Control
- Forward Collision Avoidance Assist with Pedestrian Detection
- Forward Collision-Avoidance Assist
- Front Mounted Camera
- Head-Up Display
- Lane Keep Assist
- Rear Camera
- Rear Collision Mitigation
- Rear Parking Sensors
- Right-Side Camera
- Surround-View Monitor

ADAS

1. Surround-View Monitor Cameras

- **Static Calibration (Manual Tolerance Compensation)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2019 Hyundai Santa Fe repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1)
- Side Mirror is installed (Line number 12)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62443/component/871/itype/387/nonstandard/28984/selfRefLink/false>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2019 Hyundai Santa Fe repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position->

statements/31340.pdf



April 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Ford Edge SEL
VIN: 2FMPK3J92KBC40834

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering
Ford Co-Pilot360 - Automatic Emergency Braking
Ford Co-Pilot360 - Blind Spot Information System
Ford Co-Pilot360 - Lane-Keeper Assist
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Alert
Rear Parking Sensors

Optional ADAS Features

Evasion Assist System
Level 2 - Partial Automation (Highway Driving Assist)

ADAS

1. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering on this vehicle.

The 2019 Ford Edge repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59252/guid/nafm19edge-g2011080_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2019 Ford Edge repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59252/component/1285/itype/377/nonstandard/11534/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Ford Edge repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

April 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Honda Civic LX
VIN: 2HGFC2F60JH009059

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera

ADAS

1. Front Radar

- **Vertically Align Sensor (Vertical Radar Aim)**
- **Static Calibration (Horizontal Radar Aim)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow and Collision Mitigation Braking System on this vehicle.

The 2018 Honda Civic repair manual states that a operation

is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1 and 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58209/component/1283/itype/387/nonstandard/102695/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2018 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58208/component/6978/itype/383/nonstandard/103252/selfRefLink/false>



3. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2018 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58208/guid/nah18CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58208/component/611/itype/15/nonstandard/102316/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2018 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm

April 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Kia Seltos S
VIN: KNDEUCAA0M7216270

1 Required Safety Operation

There is 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision-Avoidance Assist
Forward Collision-Avoidance Assist - Pedestrian
Lane Departure Warning System
Rear Camera

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2021 Kia Seltos repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



April 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Nissan NV200 Compact Cargo SV
VIN: 3N6CM0KN3MK703551

1 Required Safety Operation 1 Required Operational Operation

There are 1 Safety and 1 Operational that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2021 Nissan NV200 Compact Cargo repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://my.alldata.com/ColRef/Position_Statements/Nissan/
Pre_and_Post_Repair_Scanning.htm](https://my.alldata.com/ColRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm)

Operational

2. Power Window System

- **Initialization (Power Window Control Unit Initialization)**

The 2021 Nissan NV200 Compact Cargo repair manual states that a operation is required for the Power Window System when the following occurs:

- Door is installed (Line number 29 and 42)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62474/guid/nas21nv200-SIEMD-5963950_html

OEM procedure requirement:

[https://my.alldata.com/ColRef/Position_Statements/Nissan/
Power_Window_Servicing_Post_Repair.htm](https://my.alldata.com/ColRef/Position_Statements/Nissan/Power_Window_Servicing_Post_Repair.htm)



April 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Toyota Camry LE
VIN: 4T1BF1FK6FU958076

3 Required Safety Operations

There are 3 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2015 Toyota Camry repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54401/component/1236/itype/387/nonstandard/111471/selfRefLink/true>



2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2015 Toyota Camry repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54401/component/465/itype/15/nonstandard/111632/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2015 Toyota Camry repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

April 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Hyundai Elantra GLS
VIN: KMHD84LF4JU542029

- 1 Required ADAS Operation**
- 1 Required Steering Operation**
- 1 Required Safety Operation**

There are 1 ADAS, 1 Steering, and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Automatic Emergency Braking with Pedestrian Detection
Blind Spot Warning
Lane Keep Assist
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Alert

ADAS

1. Front Radar

- **Check Installation Angle (Vertical Calibration)**
- **Static Calibration (Smart Cruise Control (SCC) Sensor Alignment)**

The Front Radar is responsible for Adaptive Cruise Control and Automatic Emergency Braking with Pedestrian Detection on this vehicle.

The 2018 Hyundai Elantra repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1 and 4)
- Front Reinforcement Bar is replaced (Line number 10)
- Grille is replaced (Line number 13)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59153/component/451/itype/376/nonstandard/3101149/selfRefLink/false>

Steering

2. Steering Angle Sensor

- **Midpoint Setting (ASP Calibration)**

The 2018 Hyundai Elantra repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 47 and 48)
- Front End Alignment is repaired (Line number 48)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59153/component/3926/itype/422/nonstandard/1309625/selfRefLink/false>

OEM procedure requirement:

<https://static.nhtsa.gov/odi/tsbs/2020/MC-10172142-0001.pdf>

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2018 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

April 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Honda Civic LX
VIN: 2HGFE2F21NH125321

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System with Road Departure Mitigation
Level 2 - Partial Automation (Highway Driving Assist)
Rear Camera
Traffic Jam Assist
Traffic Sign Recognition

ADAS

1. Blind Spot Radar

- **Check Installation Angle (BSI Radar Unit Mounting Area Check)**
- **Dynamic Calibration (Blind Spot Information (BSI) System Learning Value Reset)**

The 2022 Honda Civic repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61T20&lang=enu&sie=R002958_enu

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2022 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61T20&lang=enu&sie=R001475_enu

3. SRS Unit

- OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)

The 2022 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61T20&lang=enu&sie=T002634_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61T20&lang=enu&sie=G001469_enu

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)

The 2022 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Require

ments_for_Honda_Vehicles.htm



April 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Acura TLX Tech
VIN: 19UUB1F51GA800896

3 Required ADAS Operations
2 Required Steering Operations
2 Required Safety Operations

There are 3 ADAS, 2 Steering, and 2 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Warning
Lane Departure Warning
Pedestrian Detection Warning
Rear Camera
Rear Collision Warning
Rear Parking Sensors

ADAS

1. Blind Spot Radar

- **Check Installation Angle (BSI Radar Unit Mounting Area Check)**
- **Static Calibration (BSI Radar Unit Aiming Inspection)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.

The 2016 Acura TLX repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is replaced (Line number 28)
- Structural Body (Rear) is repaired (Line number 45)
- Blind Spot Module is replaced (Line number 59)
- Blind Spot Module is installed (Line number 59)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/55413/component/7821/itype/383/nonstandard/13539/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55413/component/7821/itype/383/nonstandard/13538/selfRefLink/false>



2. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2016 Acura TLX repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 52, 54, and 57)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/service_info.html?package=61TZ3&lang=enu&sie=R009736_enu

3. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Lane Departure Warning on this vehicle.

The 2016 Acura TLX repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 28 and 45)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/55413/component/1283/itype/387/nonstandard/13523/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Steering

4. Steering Angle Sensor

- **Reset (Steering Angle Sensor Neutral Position Clear)**

The 2016 Acura TLX repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 80 and 81)
- Front End Alignment is repaired (Line number 81)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/55413/guid/na-au16TLX_TZ3-R005446_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/55413/component/3399/itype/376/nonstandard/12627/selfRefLink/false>

5. Vehicle Stability Assist Sensor

• Reset (VSA Sensor Neutral Position Memorization)

The 2016 Acura TLX repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 80 and 81)
- Front End Alignment is repaired (Line number 81)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/55413/guid/na-au16TLX_TZ3-R000928_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/55413/component/3399/itype/376/nonstandard/12627/selfRefLink/false>

Safety

6. Seat Weight Sensor

• Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)

The 2016 Acura TLX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55413/component/6978/itype/383/nonstandard/13300/selfRefLink/false>

7. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2016 Acura TLX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Acura_Vehicles.htm



April 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Mercedes-Benz M-Class - 166 ML 350
BlueTEC
VIN: 4JGDA2EBXFA539857

1 Required Safety Operation

There is 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision Warning

Optional ADAS Features

Active Blind Spot Assist
Active Lane Keeping Assist
Adaptive Cruise Control
Blind Spot Warning
Front Mounted Camera
PARKTRONIC with Active Parking Assist
Rear Camera
Rear Parking Sensors
Right-Side Camera
Surround-View Monitor

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2015 Mercedes-Benz M-Class - 166 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>



April 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Ford Edge SEL
VIN: 2FMPK3J92KBC40834

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering
Ford Co-Pilot360 - Automatic Emergency Braking
Ford Co-Pilot360 - Blind Spot Information System
Ford Co-Pilot360 - Lane-Keeper Assist
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Alert
Rear Parking Sensors

Optional ADAS Features

Evasion Assist System
Level 2 - Partial Automation (Highway Driving Assist)

ADAS

1. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering on this vehicle.

The 2019 Ford Edge repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59252/guid/nafm19edge-g2011080_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2019 Ford Edge repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59252/component/1285/itype/377/nonstandard/11534/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Ford Edge repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

April 12, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Acura MDX w/A-Spec Package
VIN: 5J8YE1H01NL802224

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Advanced Pedestrian Detection
- Blind Spot Warning
- Collision Mitigation Braking System
- Front and Rear Parking Sensors
- Lane Keeping Assist System
- Level 2 - Partial Automation (Highway Driving Assist)
- Rear Camera
- Rear Cross-Traffic Monitor
- Traffic Jam Assist
- Traffic Sign Recognition

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Aiming)**

The Front Radar is responsible for Adaptive Cruise Control, Collision Mitigation Braking System, and Traffic Jam Assist on this vehicle.

The 2022 Acura MDX repair manual states that a operation is required for the Front Radar when the following occurs:

- Door (if intrusion beam is damaged) is replaced (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62541/component/871/itype/387/nonstandard/12615/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Advanced Pedestrian Detection, Collision Mitigation Braking System, Lane Keeping Assist System, and Traffic Jam Assist on this vehicle.

The 2022 Acura MDX repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Door (if intrusion beam is damaged) is replaced (Line number 11)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62541/component/1283/itype/387/nonstandard/12617/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger Weight Sensor Output Check After a Vehicle Collision)**

The 2022 Acura MDX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62541/component/6978/itype/376/nonstandard/12751/selfRefLink/false>

4. SRS Unit

- **Inspection (Read SRS Deployment History)**

The 2022 Acura MDX repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62541/component/611/itype/377/nonstandard/14379/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62541/component/611/itype/15/nonstandard/11995/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2022 Acura MDX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Acura_Vehicles.htm

April 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Hyundai Elantra Preferred
VIN: KMHD84LF3KU844686

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

• Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2019 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position->

statements/31340.pdf



April 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Buick Regal Preferred II
VIN: W04GM6SX5J1147985

2 Required Safety Operations

There are 2 Safety that Buick requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Blind Spot Warning
Rear Cross-Traffic Alert
Rear Parking Sensors

Safety

1. Repairs and Inspections Required After a Collision

- Operation Check (Emergency Locking Retractor Dynamic Function Test)
- Inspection (Post Collision Safety Inspection)

The 2018 Buick Regal repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Buick Regal repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

April 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Hyundai Venue Ultimate
VIN: KMHRC8A33NU191026

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Blind Spot Collision Warning
- Forward Collision Avoidance Assist with Pedestrian Detection
- Forward Collision-Avoidance Assist
- Lane Keep Assist
- Rear Camera
- Rear Cross-Traffic Collision Warning

ADAS

1. Blind Spot Radar

- **Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)**
- **Dynamic Calibration (BSD Unit Alignment)**

The Blind Spot Radar is responsible for Blind Spot Collision Warning and Rear Cross-Traffic Collision Warning on this vehicle.

The 2022 Hyundai Venue repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 1, 5, 8, and 9)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1\\$3_3_4_3&sitinfolist=94^9402^94020100^none^801^1^ENG^HY^QX13^2020^all^0^none^none^none^SHOP^\\$94^9402^94020100^none^801^8^ENG^HY^QX13^2020^all^0^none^none^none^SHOP^\\$94^9402^94020100^none^801^4^ENG^HY^QX13^2020^all^0^none^none^none^SHOP^\\$&firstnode_desc=Advanced%20Driver%20Assistance%20System%20\(ADAS\)&cat1=2021%20%3E%20G%201.6%20MPI%20GAMMA%20II&content_no=SHOP|ENG|7913|2021|24841|all|0|1\\$3_3_4_3|801&cntssn=57873&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1$3_3_4_3&sitinfolist=94^9402^94020100^none^801^1^ENG^HY^QX13^2020^all^0^none^none^none^SHOP^$94^9402^94020100^none^801^8^ENG^HY^QX13^2020^all^0^none^none^none^SHOP^$94^9402^94020100^none^801^4^ENG^HY^QX13^2020^all^0^none^none^none^SHOP^$&firstnode_desc=Advanced%20Driver%20Assistance%20System%20(ADAS)&cat1=2021%20%3E%20G%201.6%20MPI%20GAMMA%20II&content_no=SHOP|ENG|7913|2021|24841|all|0|1$3_3_4_3|801&cntssn=57873&printtype=content_print&imgnum=1)

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2022 Hyundai Venue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



April 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Toyota Highlander Limited
VIN: 5TDDKRFH0GS333089

2 Required Safety Operations

There are 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning
Rear Parking Sensors

Optional ADAS Features

Adaptive Cruise Control
Forward Collision Mitigation
Lane Departure Warning

Safety



1. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2016 Toyota Highlander repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56049/component/465/itype/15/nonstandard/112570/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2016 Toyota Highlander repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

April 10, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Honda Civic LX
VIN: 2HGFB2F46DH000873

3 Required Safety Operations

There are 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)
- Operation Check (ODS Unit Operation Check)

The 2013 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision
- Supplemental Restraint Systems is replaced (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

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<https://my.alldata.com/repair/#/repair/article/52985/component/7018/itype/383/nonstandard/1534777/selfRefLink/false>

OEM procedure requirement and instructions:



<https://my.alldata.com/repair/#/repair/article/52986/component/7018/itype/387/nonstandard/1534782/selfRefLink>true>

2. SRS Control Module

- **Programming (SRS Unit Replacement & Update)**



The 2013 Honda Civic repair manual states that a operation is required for the SRS Control Module when the following occurs:

- Supplemental Restraint Systems is replaced (Line number 3)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:



<https://my.alldata.com/repair/#/repair/article/52986/component/6978/itype/376/nonstandard/1582646/selfRefLink>true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**



The 2013 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm



April 10, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Buick Regal Preferred II
VIN: W04GM6SX5J1147985

2 Required Safety Operations

There are 2 Safety that Buick requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Blind Spot Warning
Rear Cross-Traffic Alert
Rear Parking Sensors

Safety

1. Repairs and Inspections Required After a Collision

- Operation Check (Emergency Locking Retractor Dynamic Function Test)
- Inspection (Post Collision Safety Inspection)

The 2018 Buick Regal repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Buick Regal repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

April 10, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Mercedes-Benz E-Class - 207 & 212 (Trim
Not Selected)
VIN: WDDHF8JB1DA749248

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision Warning
Front and Rear Parking Sensors

Optional ADAS Features

Adaptive Cruise Control
Blind Spot Warning
Lane Departure Prevention
Lane Departure Warning
Night Vision
Pedestrian Detection Warning
Rear Camera

ADAS

1. Parking Sensors - Rear

- **Operation Check (Park Sensor Function Test)**

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors on this vehicle.

The 2013 Mercedes-Benz E-Class - 207 & 212 repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 36)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52896/component/7302/itype/401/nonstandard/1200690/selfRefLink/true>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Mercedes-Benz E-Class - 207 & 212 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz-position-statements/26689.pdf>

April 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Cadillac Escalade Sport
VIN: 1GYS4EKT5MR408166

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Cadillac requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Automated Parking Assistance
- Enhanced Automatic Emergency Braking
- Front Mounted Camera
- Front Pedestrian Braking
- Head-Up Display
- Lane Change Alert with Side Blind Zone Alert
- Lane Keep Assist with Lane Departure Warning
- Night Vision
- Rear Camera
- Right-Side Camera
- Surround-View Monitor

Optional ADAS Features

- Adaptive Cruise Control
- Adaptive Cruise Control with Stop and Go
- Level 2 - Partial Automation (Highway Driving Assist)
- Rear Collision Warning
- Reverse Automatic Braking
- Super Cruise

ADAS

1. Night Vision

- **Static Calibration (Night Vision Control Module Learn)**

- **Static Calibration (Night Vision Camera Control Module Learn)**

The Night Vision is responsible for Night Vision on this vehicle.

The 2021 Cadillac Escalade repair manual states that a operation is required for the Night Vision when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/61835/guid/nagc21escal-5519681_html

2. Surround-View Monitor Cameras

- **Dynamic Calibration (Video Processing Control Module Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2021 Cadillac Escalade repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1)
- Front bumper is repaired (Line number 1 and 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61835/guid/na-gc21escal-5281911_html

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/gm-driver-assistance-systems-aid.pdf>

Safety

3. Repairs and Inspections Required After a Collision

- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**
- **Inspection (Post Collision Safety Inspection)**

The 2021 Cadillac Escalade repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Cadillac Escalade repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>



April 6, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Subaru Impreza (Trim Not Selected)
VIN: JF1GPAP60FH259095

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

EyeSight - Adaptive Cruise Control
EyeSight - Forward Collision Mitigation
Lane Departure Warning
Rear Camera

ADAS

1. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Camera adjustment and function check)

The Windshield Camera(s) is responsible for EyeSight - Adaptive Cruise Control, EyeSight - Forward Collision Mitigation, and Lane Departure Warning on this vehicle.

The 2015 Subaru Impreza repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54385/component/6798/itype/376/nonstandard/16012/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54385/component/1283/itype/15/nonstandard/11500/selfRefLink/false>

Steering

2. Vehicle Dynamic Control

- **Midpoint Setting (VDC Control Module Adjustment)**

The 2015 Subaru Impreza repair manual states that a operation is required for the Vehicle Dynamic Control when the following occurs:

- Four Wheel Alignment is repaired (Line number 79)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54385/component/1026/itype/5/nonstandard/14185/selfRefLink/false>



Safety

3. Vehicle Electronics

- **Inspection (Safety System Inspection After a Collision)**

The 2015 Subaru Impreza repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54385/component/6978/itype/383/nonstandard//selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2015 Subaru Impreza repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre_and_Post_Scanning_of_Collision_Vehicles.htm



April 6, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Toyota Matrix (Trim Not Selected)
VIN: 2T1KU4EEXEC134925

1 Required Safety Operation

There is 1 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2014 Toyota Matrix repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion

%2FCRIB____191_Scanning_for_Electrical_Faults.htm



April 6, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Toyota Venza (Trim Not Selected)
VIN: 4T3ZA3BB3DU070677

2 Required Safety Operations

There are 2 Safety operations that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Rear Camera
Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2013 Toyota Venza repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52114/component/1236/itype/387/nonstandard/711260/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Toyota Venza repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

April 5, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 BMW 3 Series (G20 Sedan & G80 M3) 330i xDrive
VIN: 3MW5R7J04M8B97721

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that BMW requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Guard with Pedestrian Warning and Braking
Evasion Assist System
Frontal Collision Warning with City Collision Mitigation
Traffic Jam Assistant with Automatic Lane Change

Optional ADAS Features

Active Blind Spot Detection
Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Front Mounted Camera
Head-Up Display
Lane Departure Prevention
Lane Departure Warning
Level 2 - Partial Automation (Highway Driving Assist)
Park Distance Control - Front and Rear Parking Sensors
Parking Assistant Plus - Automated Parking Assistance
Rear Camera
Rear Camera
Rear Collision Mitigation



Rear Cross-Traffic Alert
Right-Side Camera
Surround-View Monitor
Traffic Sign Recognition

ADAS

1. Front Side Radar

- **Dynamic Calibration (Initialization of the SWW Sensor System)**

The Front Side Radar is responsible for Evasion Assist System and Traffic Jam Assistant with Automatic Lane Change on this vehicle.

The 2021 BMW 3 Series (G20 Sedan & G80 M3) repair manual states that a operation is required for the Front Side Radar when the following occurs:

- Front bumper is repaired (Line number 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61977/guid/nabm2019-2021g20-635bcce1-5de8-b7fd-b9e4-83b218494d78-gpwu-86a8ad63-005_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61978/component/1283/itype/392/nonstandard/111074/selfRefLink/false>

Safety

2. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2021 BMW 3 Series (G20 Sedan & G80 M3) repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61978/component/1285/itype/383/nonstandard/111736/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61978/component/1285/itype/383/nonstandard/113643/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 BMW 3 Series (G20 Sedan & G80 M3) repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW%2C_Mini

%2FPreliminary_Diagnostics_For_Collision_Repair.htm



April 5, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Tesla Model 3 Standard Range Plus
VIN: 5YJ3E1EA8MF985791

1 Required ADAS Operation

There is 1 ADAS that Tesla requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Mitigation
Front Mounted Camera
Lane Departure Prevention
Pedestrian Impact Prevention
Rear Camera
Rear Collision Warning
Right-Side Camera
Surround-View Monitor
Traffic-Aware Cruise Control

Optional ADAS Features

Autopark
Autosteer with Auto Lane Change
Front and Rear Parking Sensors
Traffic Sign Recognition
Traffic Sign Recognition with Speed Limiter

ADAS

1. Windshield Camera(s)

- **Static Calibration (Forward Facing Camera Pitch Verification)**
- **Operation Check (Image Capture)**
- **Reset (Clear Calibration)**

The Windshield Camera(s) is responsible for Autosteer with Auto Lane Change, Lane Departure Prevention, and Traffic-Aware Cruise Control on this vehicle.

The 2021 Tesla Model 3 repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://service.teslamotors.com/protected-doc/Model3/ServiceManual/index.html#GUID-034E4BAE-5A65-436E-8714-7C343B41E13A>

OEM procedure requirement:

<https://service.teslamotors.com/protected-doc/Model3/ServiceManual/index.html#GUID-4D336531-57F2-43E8-BA2A-C2BBB89B88CF>

April 4, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Mercedes-Benz GL-Class - 166 GL 350
BlueTEC
VIN: 4JGDF2EE5DA173928

3 Required ADAS Operations 2 Required Safety Operations

There are 3 ADAS and 2 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Blind Spot Assist
Blind Spot Warning
Forward Collision Mitigation
PARKTRONIC with Active Parking Assist
Rear Camera

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Lane Departure Prevention
Lane Departure Warning

ADAS

1. Blind Spot Radar

• Operation Check (Check Blind Spot Operation)

The Blind Spot Radar is responsible for Active Blind Spot Assist and Blind Spot Warning on this vehicle.

The 2013 Mercedes-Benz GL-Class - 166 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is installed (Line number 42 and 43)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52916/component/7302/itype/401/nonstandard/1200676/selfRefLink/false>

2. Parking Sensors - Front

• Operation Check (Park Sensor Function Test)

The Parking Sensors - Front is responsible for PARKTRONIC with Active Parking Assist on this vehicle.

The 2013 Mercedes-Benz GL-Class - 166 repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 3 and 15)
- Parking Sensor - Front is installed (Line number 6)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52916/component/3716/itype/401/nonstandard/1242033/selfRefLink/false>



OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52916/component/7309/itype/401/nonstandard/1201555/selfRefLink/false>

3. Parking Sensors - Rear

- **Operation Check (Park Sensor Function Test)**

The Parking Sensors - Rear is responsible for PARKTRONIC with Active Parking Assist on this vehicle.

The 2013 Mercedes-Benz GL-Class - 166 repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 42 and 43)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52916/component/7302/itype/401/nonstandard/1200676/selfRefLink/false>

Safety

4. Headlight Assembly

- **Programming (Initial Startup and Coding)**

The 2013 Mercedes-Benz GL-Class - 166 repair manual states that a operation is required for the Headlight Assembly when the following occurs:

- Headlamp is replaced (Line number 17)

Please see the documentation from the manufacturer below.

OEM procedure instructions:



https://my.alldata.com/repair/#/repair/article/55304/guid/namb2012-2019166-ad00_00-p-2000-04a_pdf

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/55304/component/536/itype/401/nonstandard/11910/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Mercedes-Benz GL-Class - 166 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>



April 4, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Lincoln Continental Reserve
VIN: 1LN6L9NC3H5626497

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Lincoln requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
BLIS - Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Automated Parking Assistance
Forward Collision Mitigation
Front and Rear Parking Sensors
Front Mounted Camera
Head-Up Display
Lane Departure Prevention
Pedestrian Impact Prevention

ADAS

1. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2017 Lincoln Continental repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56760/component/1246/itype/5/nonstandard/10698/selfRefLink/false>

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Surround-View Monitor Cameras

- **Static Calibration (360 Degree View Camera Alignment)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2017 Lincoln Continental repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- 
- 
- Tail Lamp is installed (Line number 16 and 18)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56760/component/1283/itype/392/nonstandard/10026/selfRefLink/false>

Safety

3. Seatbelt System

- Operation Check (Road Test Inspection)

The 2017 Lincoln Continental repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/56760/guid/nafm17conti-g1883599_html

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2017 Lincoln Continental repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



March 31, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Volkswagen Taos SE
VIN: 3VVLX7B25NM073662

2 Required Safety Operations

There are 2 Safety operations that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Front Assist
Pedestrian Monitoring
Rear Camera

Optional ADAS Features

Active Blind Spot System
Adaptive Cruise Control with Stop and Go
Blind Spot Warning
Lane Departure Prevention
Level 2 - Partial Automation (Highway Driving Assist)
Rear Collision Warning

Safety



1. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2022 Volkswagen Taos repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://erwin.vw.com/erwin/showArticleProperties.do?articleId=185820>
<https://erwin.vw.com/erwin/showArticleProperties.do?articleId=185820>
<https://erwin.vw.com/erwin/showArticleProperties.do?articleId=185820>

2. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2022 Volkswagen Taos repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://erwin.vw.com/erwin/showArticleProperties.do?articleId=185840>

March 31, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2023 Audi Q5 Premium
VIN: WA1ABAFY7P2003651

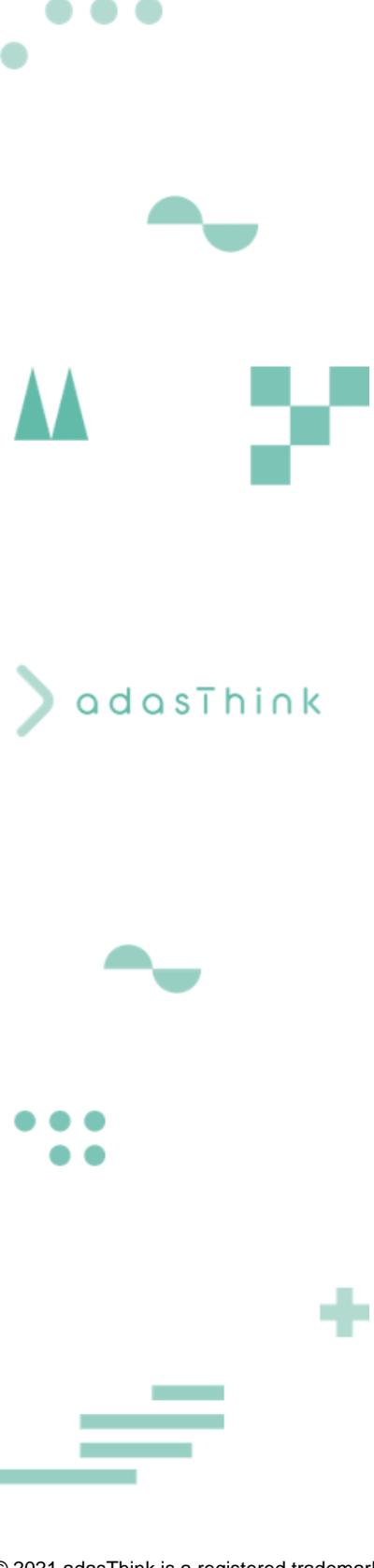
2 Required Safety Operations

There are 2 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Audi Pre Sense City - Forward Collision Mitigation
Audi Pre Sense City - Pedestrian Impact Prevention
Audi Side Assist
Front and Rear Parking Sensors
Lane Departure Warning
Rear Camera
Rear Collision Mitigation

Safety



1. Seatbelt System

- **Check Installation Angle (Seatbelts Condition and Function Check)**

The 2023 Audi Q5 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61200/guid/nad2018-2020q5_fyb-en-US-A-A005A022521_americ-X-0S851RK5HOC_html#X-0S851RK5HOC

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61200/component/1285/itype/383/nonstandard/114564/selfRefLink/false>

2. Vehicle Electronics

- **OEM Pre-Scan (Airbag Control Module Crash Entry Check)**

- **Inspection (Seatbelts Condition and Function Check)**

The 2023 Audi Q5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61200/>

component/6978/itype/376/nonstandard/114561/
selfRefLink/false



March 31, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Hyundai Tucson Luxury
VIN: KM8J3CA4XGU170668

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning

ADAS

1. Blind Spot Radar

- Dynamic Calibration (BSD Unit Alignment)
- Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.

The 2016 Hyundai Tucson repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 1 and 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/55315/component/1283/itype/401/nonstandard/10246/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/55315/component/1283/itype/21/nonstandard/10069/selfRefLink/true>

Safety

2. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2016 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

March 31, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Mazda Mazda6 i Touring
VIN: JM1GJ1V54E1105549

2 Required Safety Operations

There are 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning

Optional ADAS Features

Rear Parking Sensors
Smart City Brake Support

Safety



1. Seat Weight Sensor

- **Occupant Sensor Calibration (DTC Inspection & Calibration)**

The 2014 Mazda Mazda6 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53036/component/3504/itype/383/nonstandard/1386853/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2014 Mazda Mazda6 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Mazda/Pre_and_Post-Repair_Scanning.htm

March 31, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Mercedes-Benz GLA-Class - 156 GLA 250
VIN: WDCTG4GB1KJ570975

1 Required Safety Operation

There is 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Collision Prevention Assist Plus
Pedestrian Impact Prevention

Optional ADAS Features

Active Blind Spot System
Distance Pilot DISTRONIC
Front and Rear Parking Sensors
Front Mounted Camera
Lane Departure Prevention
Rear Camera
Right-Side Camera
Surround View rear mounted camera
Surround-View Monitor

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2019 Mercedes-Benz GLA-Class - 156 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>



March 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Honda Civic LX
VIN: 2HGFC2F56LH034171

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System
Rear Camera

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar - Aim)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2020 Honda Civic repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 8 and 10)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60819/component/4037/itype/387/nonstandard/13825/selfRefLink/true>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System on this vehicle.

The 2020 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor



cosmetic abrasion) is repaired (Line number 8 and 10)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60819/guid/nah20civic_tba-R011162_enu_html

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2020 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60819/guid/nah20civic_tba-R004834_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60819/component/3504/itype/383/nonstandard/13100/selfRefLink/false>

4. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2020 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60819/guid/nahn20civic_tba-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60819/component/611/itype/15/nonstandard/12085/selfRefLink/true>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2020 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm

March 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Ford F-150 (Trim Not Selected)
VIN: 1FTEW1EG2JFE50957

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Adaptive Cruise Control with Stop and Go
Lane Departure Prevention
Lane Keeping System
Rear Camera with Dynamic Hitch Assist

Optional ADAS Features

Active Park Assist
Blind Spot Information System with Cross-Traffic Alert
BLIS - Blind Spot Warning
Forward Collision Mitigation
Forward Collision Warning
Front Mounted Camera
Pedestrian Detection Warning
Pedestrian Impact Prevention
Pro-Trailer Backup Assist
Rear Cross-Traffic Alert
Rear Parking Sensors
Right-Side Camera
Surround-View Monitor

ADAS

1. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**
- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control and Adaptive Cruise Control with Stop and Go on this vehicle.

The 2018 Ford F-150 repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58180/guid/nafm18fstrk1-g1948260_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Windshield Camera(s)

- **Dynamic Calibration (IPMA Camera Alignment)**

The Windshield Camera(s) is responsible for Lane Departure Prevention and Lane Keeping System on this vehicle.

The 2018 Ford F-150 repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Four Wheel Alignment is repaired (Line number 45)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58187/component/7848/itype/392/nonstandard/111701/selfRefLink/true>

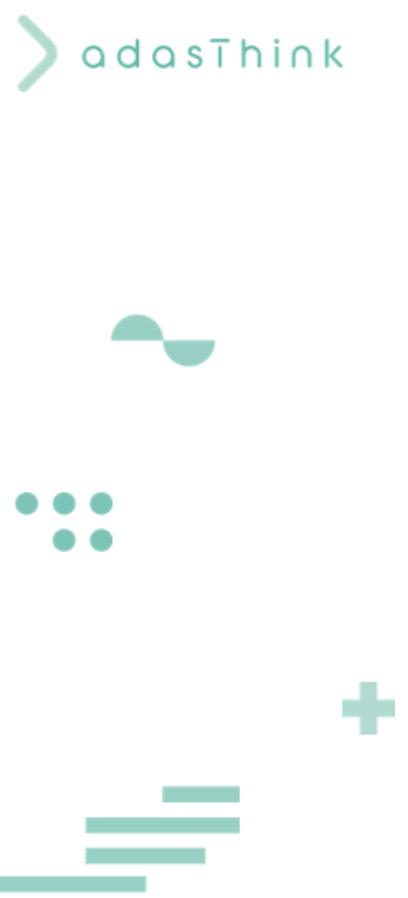
Safety

3. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2018 Ford F-150 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58187/component/1285/itype/377/nonstandard/111013/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**



The 2018 Ford F-150 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

March 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Volkswagen Tiguan Wolfsburg Edition
VIN: WVGNV7AX8HK031777

2 Required Safety Operations

There are 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2017 Volkswagen Tiguan repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57419/component/465/itype/383/nonstandard/1103148/selfRefLink/true#X-27842240PKQP0O>



OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57419/component/465/itype/383/nonstandard/1103148/selfRefLink/true>

2. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2017 Volkswagen Tiguan repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57419/component/6978/itype/376/nonstandard/1103306/selfRefLink/true>

March 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Dodge Grand Caravan SXT
VIN: 2C4RDGBG5GR172409

1 Required Safety Operation

There is 1 Safety that Dodge requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2016 Dodge Grand Caravan repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

March 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Audi A6 (Trim Not Selected)
VIN: WAUJFAFC3GN013636

4 Required ADAS Operations
1 Required Steering Operation
2 Required Safety Operations

There are 4 ADAS, 1 Steering, and 2 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Front and Rear Parking Sensors
Lane Departure Prevention
Rear Camera
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Audi Pre Sense Rear
Audi Side Assist
Forward Collision Mitigation
Forward Collision Warning
Front Mounted Camera

ADAS



1. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2016 Audi A6 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 3)
- Four Wheel Alignment is repaired (Line number 26)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56146/component/1246/itype/5/nonstandard/14268/selfRefLink/true>

2. Rear Camera

- **Static Calibration (Rear View Camera Calibration)**



The Rear Camera is responsible for Rear Camera on this vehicle.

The 2016 Audi A6 repair manual states that a operation is required for the Rear Camera when the following occurs:

- Four Wheel Alignment is repaired (Line number 26)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56146/component/6630/itype/387/nonstandard/12949/selfRefLink/true>

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/56146/guid/na-ad2016-2018A6-S6_4GC-en-US-A-A005A000421_americ-X-KTWBDXAFCIC_html

3. Surround-View Monitor Cameras

• Static Calibration (Peripheral Camera Calibration)

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2016 Audi A6 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 3)
- Side Mirror is installed (Line number 13)
- Four Wheel Alignment is repaired (Line number 26)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56146/guid/na-ad2016-2018A6-S6_4GC-en-US-A-A005A000421_americ-X-Z2Y7CX_html

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56146/guid/na-ad2016-2018A6-S6_4GC-en-US-A-A005A000421_americ-X-Z2Y7CXA_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56146/component/1283/itype/387/nonstandard/12984/selfRefLink/true>

4. Windshield Camera(s)

- **Static Calibration (Driver Assistance Systems Front Camera Calibration)**

The Windshield Camera(s) is responsible for Lane Departure Prevention on this vehicle.

The 2016 Audi A6 repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Four Wheel Alignment is repaired (Line number 26)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56146/component/6798/itype/392/nonstandard/14269/selfRefLink/true>

Steering

5. Steering Angle Sensor

- **Reset (Steering Angle Sensor - Basic Setting)**

The 2016 Audi A6 repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 26)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56146/component/3399/itype/376/nonstandard/14255/selfRefLink/false>

Safety

6. Seatbelt System

- **Check Installation Angle (Seatbelts Condition and Function Check)**

The 2016 Audi A6 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56146/guid/nad2016-2018A6-S6_4GC-en-US-A-A005A000121_americ-X-0S851RK5HOC_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56146/component/1285/itype/383/nonstandard/11336/selfRefLink/false>

7. Vehicle Electronics

- **Inspection (Seatbelts Condition and Function Check)**

- **OEM Pre-Scan (Airbag Control Module Crash Entry Check)**

The 2016 Audi A6 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:



<https://my.alldata.com/repair/#/repair/article/56146/component/6978/itype/376/nonstandard/11333/selfRefLink/false>



March 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Toyota RAV4 LE
VIN: 2T3B1RFV9MC239403

2 Required ADAS Operations
3 Required Safety Operations
1 Required Operational Operation

There are 2 ADAS, 3 Safety, and 1 Operational that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Monitor with Lane Change Assist
Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Lane Tracing Assist
Level 2 - Partial Automation (Highway Driving Assist)
Pre-Collision System with Pedestrian Detection
Rear Camera
Rear Cross-Traffic Alert
Toyota Safety Sense (TSS) 2.0

ADAS

1. Blind Spot Radar

- **Inspection (Visually Inspect Installation Area for Damage)**
- **Check Installation Angle (Blind Spot Monitor Sensor Installation Condition Inspection)**

The Blind Spot Radar is responsible for Blind Spot Monitor with Lane Change Assist and Rear Cross-Traffic Alert on this vehicle.

The 2021 Toyota RAV4 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 37)
- Rear bumper is replaced (Line number 38)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/7821/itype/5/nonstandard/110730/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/7302/itype/401/nonstandard/121948/selfRefLink/false>

2. Rear Camera

- **Static Calibration (Park Assist Monitor System - Calibration)**

The Rear Camera is responsible for Rear Camera on this vehicle.

The 2021 Toyota RAV4 repair manual states that a operation is required for the Rear Camera when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 2)
- Trunk Lid/Lift Gate is replaced (Line number 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61251/guid/natty2019-2022rav4-RM10000001FRE0_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/715/itype/402/nonstandard/110091/selfRefLink/false>

Safety

3. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2021 Toyota RAV4 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/1236/itype/387/nonstandard/117923/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/611/itype/15/nonstandard/120929/selfRefLink/false>

4. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2021 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/465/itype/15/nonstandard/114942/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

Operational

6. Back Door Unlock

- **Reset (Reset Back Door Close Position)**

The 2021 Toyota RAV4 repair manual states that a operation is required for the Back Door Unlock when the following occurs:

- Battery is repaired (Line number 47)
- Battery is installed (Line number 47)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61251/guid/naty2019-2022rav4-RM10000001FW6P_html

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/61251/guid/naty2019-2022rav4-RM10000001O2WR_html

March 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Tesla Model X Base
VIN: 7SAXCAE51NF353844

1 Required ADAS Operation

There is 1 ADAS that Tesla requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Autopark
Autopilot
Blind Spot Warning
Following Distance Alert
Forward Collision Mitigation
Front and Rear Parking Sensors
Front Mounted Camera
Pedestrian Impact Prevention
Rear Camera
Rear Collision Warning
Right-Side Camera
Surround-View Monitor
Traffic-Aware Cruise Control

Optional ADAS Features

Autosteer with Auto Lane Change
Level 2 - Partial Automation (Highway Driving Assist)
Traffic Sign Recognition
Traffic Sign Recognition with Speed Limiter

ADAS

1. Parking Sensors - Rear

- **Operation Check (Park Assist Rear Sensors Test)**

The Parking Sensors - Rear is responsible for Autopark and Front and Rear Parking Sensors on this vehicle.

The 2022 Tesla Model X repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Parking Sensor - Rear is installed (Line number 6, 7, 8, and 9)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://service.tesla.com/docs/ModelX/ServiceManual/Palladium/en-us/GUID-669BD6B9-6169-456E-9707-FC71881D116E.html>



March 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Hyundai Venue Trend
VIN: KMHRC8A36MU069050

1 Required Steering Operation 1 Required Safety Operation

There are 1 Steering and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Collision Warning
Rear Camera
Rear Cross-Traffic Collision Warning

Steering

1. Steering Angle Sensor

- **Midpoint Setting (ASP Calibration)**

The 2021 Hyundai Venue repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 71)

Please see the documentation from the manufacturer below.

OEM procedure instructions:



<https://my.alldata.com/repair/#/repair/article/62395/component/3915/itype/376/nonstandard/14223/selfRefLink/true>

OEM procedure requirement:

<https://static.nhtsa.gov/odi/tsbs/2020/MC-10172142-0001.pdf>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2021 Hyundai Venue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

March 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Toyota Highlander XLE
VIN: 5TDGZRBH8LS516765

2 Required Safety Operations

There are 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Monitor
Full-Speed Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Lane Tracing Assist
Level 2 - Partial Automation (Highway Driving Assist)
Pre-Collision System with Pedestrian Detection
Pre-Collision System with Pedestrian Detection
Rear Camera
Rear Cross-Traffic Alert
Road Sign Assist

Safety

1. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2020 Toyota Highlander repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61576/component/465/itype/383/nonstandard/114621/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61576/component/465/itype/15/nonstandard/114618/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Toyota Highlander repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

March 22, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Honda Pilot EX-L Navi
VIN: 5FNYF6H75KB505008

3 Required ADAS Operations 2 Required Safety Operations

There are 3 ADAS and 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Front and Rear Parking Sensors
Lane Keeping Assist System
Rear Camera
Right-Side Camera

ADAS

1. Front Radar

- **Vertically Align Sensor (Vertical Aiming)**

- **Static Calibration (Horizontal Aiming)**

The Front Radar is responsible for Adaptive Cruise Control, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2019 Honda Pilot repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1 and 2)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 9)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59196/component/1283/itype/387/nonstandard/13239/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/CoRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm



2. Parking Sensors - Front

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Front is responsible for Front and Rear Parking Sensors on this vehicle.

The 2019 Honda Pilot repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1 and 11)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59196/component/871/itype/387/nonstandard/13235/selfRefLink/false>

3. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System on this vehicle.

The 2019 Honda Pilot repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 9)

Please see the documentation from the manufacturer below.

OEM procedure instructions:



<https://my.alldata.com/repair/#/repair/article/59196/component/1283/itype/387/nonstandard/13054/selfRefLink/false>



OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm



Safety

4. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**



The 2019 Honda Pilot repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:



<https://my.alldata.com/repair/#/repair/article/59196/component/6978/itype/383/nonstandard/13127/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**



The 2019 Honda Pilot repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm



March 22, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Volkswagen Golf (Trim Not Selected)
VIN: 3VWG17AU4JM293516

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Front Assist with Automatic Emergency Braking
Pedestrian Monitoring
Rear Camera

Optional ADAS Features

Blind Spot Warning
Rear Collision Mitigation

ADAS

1. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Front Assist with Automatic Emergency Braking and Pedestrian Monitoring on this vehicle.

The 2018 Volkswagen Golf repair manual states that a operation is required for the Front Radar when the following occurs:

- Grille is installed (Line number 3)
- Four Wheel Alignment is repaired (Line number 33)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59066/component/1246/itype/392/nonstandard/214385/selfRefLink/true>

Steering

2. Steering Angle Sensor

- **Reset (Steering Angle Sensor - Basic Setting)**

The 2018 Volkswagen Golf repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 33)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59066/>

component/3399/itype/376/nonstandard/214361/
selfRefLink/true

Safety

3. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2018 Volkswagen Golf repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59066/guid/navaU2-en-US-V-K0059241221_americas-X-HX0V7WWMNBG_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59066/component/1285/itype/383/nonstandard/1102565/selfRefLink/true>

4. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2018 Volkswagen Golf repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:



<https://my.alldata.com/repair/#/repair/article/59066/component/6978/itype/376/nonstandard/214166/selfRefLink/true>



March 22, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Honda Civic LX
VIN: 2HGFC2F57LH012454

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System
Rear Camera

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar - Aim)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2020 Honda Civic repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 9 and 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60819/component/4037/itype/387/nonstandard/13825/selfRefLink/true>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System on this vehicle.

The 2020 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor



cosmetic abrasion) is repaired (Line number 9 and 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60819/guid/nah20civic_tba-R011162_enu_html

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2020 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60819/guid/nah20civic_tba-R004834_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60819/component/3504/itype/383/nonstandard/13100/selfRefLink/false>

4. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2020 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60819/guid/nahn20civic_tba-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60819/component/611/itype/15/nonstandard/12085/selfRefLink/true>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2020 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm

March 22, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Honda CR-V LX
VIN: 2HKRW2H22HH133946

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System
Rear Camera

Optional ADAS Features

Rear Parking Sensors

ADAS

1. Front Radar

• Static Calibration (Millimeter Wave Radar Aiming)

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2017 Honda CR-V repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1)
- Front bumper (if damaged within 300mm of radar) is replaced (Line number 2)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 14 and 35)
- Grille (if damaged within 300mm of radar) is replaced (Line number 17)
- Shutter Grille is installed (Line number 40)
- Wave Radar Sensor is installed (Line number 43)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://www.in.honda.com/RJANISIS/RJAAI003_205.htm?reditfrom=SISCO&Menuld=RDAAWH030000&sessionid=6e0b634d-4bc6-4269-9ce2-b83f87c24a2a&lang=0&doc=2019%20ACCORD:Aiming%20Driving%20Support%20System%20\(Revised%2003/08/2021\)](https://www.in.honda.com/RJANISIS/RJAAI003_205.htm?reditfrom=SISCO&Menuld=RDAAWH030000&sessionid=6e0b634d-4bc6-4269-9ce2-b83f87c24a2a&lang=0&doc=2019%20ACCORD:Aiming%20Driving%20Support%20System%20(Revised%2003/08/2021)&model=ACCORD&year=2019&docname=AJA03525&doctype=FF&id=3853664&bodyType=&trim=&desc=Aiming%20Driving%20Support%20System%20(Revised%2003/08/2021))

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57367/>

component/8095/itype/401/nonstandard/102929/
selfRefLink/false

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57367/component/1283/itype/387/nonstandard/103273/selfRefLink/false>

2. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System on this vehicle.

The 2017 Honda CR-V repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 14 and 35)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57367/component/1283/itype/387/nonstandard/103272/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2017 Honda CR-V repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57367/component/6978/itype/383/nonstandard/102798/selfRefLink/false>

4. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2017 Honda CR-V repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61TLA&lang=enu&sie=T001246_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61TLA&lang=enu&sie=G001210_enu

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2017 Honda CR-V repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm



March 22, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Toyota RAV4 LE
VIN: 2T3Z1RFV3MC124360

2 Required ADAS Operations
3 Required Safety Operations
1 Required Operational Operation

There are 2 ADAS, 3 Safety, and 1 Operational that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Monitor with Lane Change Assist
Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Lane Tracing Assist
Lexus Teammate
Pre-Collision System with Pedestrian Detection
Rear Camera
Rear Cross-Traffic Alert
Toyota Safety Sense (TSS) 2.0

ADAS



1. Rear Camera

- **Static Calibration (Park Assist Monitor System - Calibration)**

The Rear Camera is responsible for Rear Camera on this vehicle.

The 2021 Toyota RAV4 repair manual states that a operation is required for the Rear Camera when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 40)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61251/guid/natty2019-2022rav4-RM10000001FRE0_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/715/itype/402/nonstandard/110091/selfRefLink/false>

2. Windshield Camera(s)

- **Static Calibration (Front Camera - Adjustment)**

The Windshield Camera(s) is responsible for Lane Departure Alert with Steering Assist, Lane Tracing Assist, Pre-Collision System with Pedestrian Detection, and Toyota Safety Sense (TSS) 2.0 on this vehicle.

The 2021 Toyota RAV4 repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is installed (Line number 3)

Please see the documentation from the manufacturer below.



OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/6798/itype/5/nonstandard/121123/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/6798/itype/401/nonstandard/112667/selfRefLink/false>

Safety

3. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2021 Toyota RAV4 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/1236/itype/387/nonstandard/117923/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/611/itype/15/nonstandard/120929/selfRefLink/false>

4. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2021 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/465/itype/15/nonstandard/114942/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm

Operational

6. Back Door Unlock

• Reset (Reset Back Door Close Position)

The 2021 Toyota RAV4 repair manual states that a operation is required for the Back Door Unlock when the following occurs:

- Battery is repaired (Line number 52)
- Battery is installed (Line number 52)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61251/guid/naty2019-2022rav4-RM10000001FW6P_html

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/61251/guid/naty2019-2022rav4-RM10000001O2WR_html

March 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Hyundai Elantra Preferred
VIN: KMHLM4AG9NU248490

1 Required Steering Operation 1 Required Safety Operation

There are 1 Steering and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind-Spot Collision-Avoidance Assist
Forward Collision Avoidance Assist with Pedestrian Detection
Forward Collision-Avoidance Assist
Lane Keeping Assist
Rear Camera
Rear Cross-Traffic Collision-Avoidance Assist

Steering

1. Steering Angle Sensor

• Midpoint Setting (ASP Calibration)

The 2022 Hyundai Elantra repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 43)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2\\$14_6_5_1&sitinfolist=61^6140^61400500^none^801^6^ENG^HY^CN713^2021^st^12^none^none^none^SHOP^\\$61^6140^61400500^none^801^5^ENG^HY^CN713^2021^st^12^none^none^none^none^SHOP^\\$&firstnodedesc=Steering%20System&cat1=2022%20%3E%20G%202.0%20AKS%20NU%20PE&content_no=SHOP|ENG|9275|2022|27823|st|12|2\\$14_6_5_1|801&cntssn=63930&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2$14_6_5_1&sitinfolist=61^6140^61400500^none^801^6^ENG^HY^CN713^2021^st^12^none^none^none^SHOP^$61^6140^61400500^none^801^5^ENG^HY^CN713^2021^st^12^none^none^none^none^SHOP^$&firstnodedesc=Steering%20System&cat1=2022%20%3E%20G%202.0%20AKS%20NU%20PE&content_no=SHOP|ENG|9275|2022|27823|st|12|2$14_6_5_1|801&cntssn=63930&printtype=content_print&imgnum=1)

OEM procedure requirement:

<https://static.nhtsa.gov/odi/tsbs/2020/MC-10172142-0001.pdf>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2022 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



March 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Mercedes-Benz GLC-Class - 253 GLC 300
VIN: WDC0G8EB9LV222641

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Blind Spot Assist
Blind Spot Warning
PRE-SAFE Brake with Pedestrian Recognition

Optional ADAS Features

Active Brake Assist
Active Lane Keeping Assist
Adaptive Cruise Control with Stop and Go
DISTRONIC PLUS Cruise Control
DISTRONIC PLUS with Steering Assist
Front Cross-Traffic Alert
Front Mounted Camera
Head-Up Display
Lexus Teammate
PARKTRONIC with Active Parking Assist
Rear Camera
Rear Collision Mitigation
Right-Side Camera
Surround View rear mounted camera
Surround-View Monitor



Traffic Sign Recognition

ADAS

1. Blind Spot Radar

- **Programming (Commission Rear Radar Sensor)**

The Blind Spot Radar is responsible for Active Blind Spot Assist and Blind Spot Warning on this vehicle.

The 2020 Mercedes-Benz GLC-Class - 253 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Blind Spot Module is replaced (Line number 19)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61469/component/3716/itype/401/nonstandard/11714/selfRefLink/false>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Mercedes-Benz GLC-Class - 253 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz-position-statements/26689.pdf>



March 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Lexus RX 350
VIN: 2T2JZMDA4NC317678

3 Required ADAS Operations 2 Required Safety Operations

There are 3 ADAS and 2 Safety that Lexus requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Stop and Go
- Blind Spot Monitor
- Forward Collision Mitigation
- Intuitive Park Assist - Front and Rear Parking Sensors
- Intuitive Parking Assist - Front and Rear Parking Sensors
- Lane Departure Alert with Steering Assist
- Lane Tracing Assist
- Lexus Teammate
- Pre-Collision System with Pedestrian Detection
- Right-Side Camera
- Surround-View Monitor
- Traffic Sign Recognition

Optional ADAS Features

- Front Mounted Camera
- Head-Up Display
- Rear Camera
- Rear Cross-Traffic Alert
- Rear Cross-Traffic Braking

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**
- **Reset (Clear Vehicle Control History (RoB))**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go and Pre-Collision System with Pedestrian Detection on this vehicle.

The 2022 Lexus RX repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is replaced (Line number 5)
- Front bumper is installed (Line number 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62989/guid/nax2016-2022rx350-RM10000001K0DG_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62989/component/7309/itype/401/nonstandard/218916/selfRefLink/false>

2. Parking Sensors - Front

- **Static Calibration (Registration)**
- **Check Installation Angle (Sensor Height and Alignment Inspection)**

The Parking Sensors - Front is responsible for Intuitive Park Assist - Front and Rear Parking Sensors and Intuitive Parking Assist - Front and Rear Parking Sensors on this vehicle.



The 2022 Lexus RX repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 5)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62989/guid/na-lx2016-2022rx350-RM10000001KT4L_html

3. Surround-View Monitor Cameras

- **Static Calibration (Panoramic View Monitor System - Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.



The 2022 Lexus RX repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 5)
- Grille is installed (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62989/guid/na-lx2016-2022rx350-RM10000001KT8S_html

Safety



4. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2022 Lexus RX repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62989/component/465/itype/383/nonstandard/210885/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62989/component/465/itype/15/nonstandard/210883/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Health Check Diagnostic Scans)**

The 2022 Lexus RX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

March 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Hyundai Santa Fe Premium
VIN: 5XYZU3LB9GG377599

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Parking Sensors

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2016 Hyundai Santa Fe repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

March 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Toyota Tacoma SR5
VIN: 5TFSZ5AN9HX088653

1 Required Safety Operation

There is 1 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2017 Toyota Tacoma repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56660/guid/nasty2016-2023tacom-RM100000000VEVU_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56660/component/611/itype/15/nonstandard/212757/selfRefLink/false>

Potential Safety

2. Vehicle Electronics (Potential)

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2017 Toyota Tacoma repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

March 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Chevrolet Trax LS
VIN: 3GNCJJKSB2JL165340

2 Required Safety Operations

There are 2 Safety operations that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Repairs and Inspections Required After a Collision

- Operation Check (Emergency Locking Retractor Dynamic Function Test)
- Inspection (Post Collision Safety Inspection)

The 2018 Chevrolet Trax repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/>

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[index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf](https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf)

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Chevrolet Trax repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>



March 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Honda Civic Sport
VIN: 2HGFC2F88MH000079

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System
Rear Camera

ADAS

1. Front Radar

• Static Calibration (Millimeter Wave Radar - Aim)

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2021 Honda Civic repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1 and 2)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 13 and 49)
- Door (if intrusion beam is damaged) is replaced (Line number 28)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62138/component/4037/itype/387/nonstandard/13641/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System on this vehicle.

The 2021 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 13 and 49)
- Door (if intrusion beam is damaged) is replaced (Line number 28)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62138/component/1283/itype/387/nonstandard/13637/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2021 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62138/component/6978/itype/383/nonstandard/12984/selfRefLink/false>

4. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2021 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62138/guid/nah21civic_tba-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62138/component/611/itype/15/nonstandard/12051/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2021 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm



March 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Mercedes-Benz CLS-Class - 257 AMG CLS 53
VIN: W1K2J6BB8NA107795

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision Mitigation
Front and Rear Parking Sensors
Pedestrian Detection Warning
Rear Camera
Rear Collision Mitigation
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Active Blind Spot Assist
Active Distance Assist DISTRONIC
Active Lane Keeping Assist
Active Speed Limit Assist
Adaptive Cruise Control with Stop and Go
Blind Spot Warning
Front Mounted Camera
Head-Up Display
Lexus Teammate
Traffic Sign Recognition

ADAS

1. Mercedes Active Brake Assist Controller Unit (A108)

- **Dynamic Calibration (Calibration of Component A108)**

The Mercedes Active Brake Assist Controller Unit (A108) is responsible for Active Distance Assist DISTRONIC and Forward Collision Mitigation on this vehicle.

The 2022 Mercedes-Benz CLS-Class - 257 repair manual states that a operation is required for the Mercedes Active Brake Assist Controller Unit (A108) when the following occurs:

- Front bumper is installed (Line number 3, 4, and 20)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61427/component/872/itype/401/nonstandard/10907/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61427/component/7309/itype/401/nonstandard/11391/selfRefLink/true>

2. Surround-View Monitor Cameras

- **Dynamic Calibration (Calibration of 360 Degree Camera System)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2022 Mercedes-Benz CLS-Class - 257 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 3, 4, and 20)
- Side Mirror is installed (Line number 75)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61427/component/754/itype/401/nonstandard/11407/selfRefLink/true>

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61427/component/7309/itype/401/nonstandard/11391/selfRefLink/true>

Safety

3. Headlight Assembly

- **Programming (Commission Headlight Unit)**

The 2022 Mercedes-Benz CLS-Class - 257 repair manual states that a operation is required for the Headlight Assembly when the following occurs:

- Headlamp is replaced (Line number 29)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61427/component/536/itype/401/nonstandard/11268/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 Mercedes-Benz CLS-Class - 257 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz-position-statements/26689.pdf>

March 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Ford Edge SEL
VIN: 2FMPK4J91KBC66394

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering
Ford Co-Pilot360 - Automatic Emergency Braking
Ford Co-Pilot360 - Blind Spot Information System
Ford Co-Pilot360 - Lane-Keeper Assist
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Alert
Rear Parking Sensors

Optional ADAS Features

Evasion Assist System
Lexus Teammate

ADAS



1. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering on this vehicle.

The 2019 Ford Edge repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59252/guid/nafm19edge-g2011080_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Parking Sensors - Rear

- **Operation Check (Elevation System Check)**
- **Operation Check (Azimuth System Check)**



The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2019 Ford Edge repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- **Rear bumper is installed (Line number 117200510)**



Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59252/guid/nafm19edge-g1737070_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59252/component/7300/itype/402/nonstandard/11524/selfRefLink/false>

Safety

3. Seatbelt System

• Operation Check (Road Test Inspection)

The 2019 Ford Edge repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59252/component/1285/itype/377/nonstandard/11534/selfRefLink/false>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2019 Ford Edge repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



March 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Toyota Corolla L
VIN: 5YFBPRBE1LP038056

- 1 Required ADAS Operation**
- 2 Required Safety Operations**
- 1 Required Operational Operation**

There are 1 ADAS, 2 Safety, and 1 Operational that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Lane Departure Alert with Steering Assist
Pre-Collision System
Pre-Collision System with Pedestrian Detection
Rear Camera

ADAS

1. Windshield Camera(s)

- **Initialization (Pre-Collision System: Initialization)**

The Windshield Camera(s) is responsible for Lane Departure Alert with Steering Assist, Lane Tracing Assist, Pre-Collision System, and Pre-Collision System with Pedestrian Detection on this vehicle.

The 2020 Toyota Corolla repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Battery is installed (Line number 36)
- Battery is repaired (Line number 36)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60857/guid/natty2019-2022corol-RM10000001CUSM_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60857/component/303/itype/401/nonstandard/422406/selfRefLink/false>

Safety

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2020 Toyota Corolla repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60332/component/465/itype/383/nonstandard/422525/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60332/component/465/itype/15/nonstandard/414416/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Toyota Corolla repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm



Operational

4. Back Door Unlock

- **Reset (Reset Back Door Close Position)**

The 2020 Toyota Corolla repair manual states that a operation is required for the Back Door Unlock when the following occurs:

- Battery is installed (Line number 36)
- Battery is repaired (Line number 36)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60857/component/3072/itype/387/nonstandard/414534/selfRefLink/false>

March 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Porsche 911 Carrera
VIN: WP0AA2A97MS206551

6 Required ADAS Operations 2 Required Safety Operations

There are 6 ADAS and 2 Safety that Porsche requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Adaptive Cruise Control with Stop and Go
- Blind Spot Warning
- Forward Collision Mitigation
- Front and Rear Parking Sensors
- Lane Keep Assist
- Night Vision
- Pedestrian Impact Prevention
- Rear Camera
- Right-Side Camera
- Surround-View Monitor

Optional ADAS Features

- Front Mounted Camera
- Lexus Teammate
- Traffic Sign Recognition
- Traffic Sign Recognition with Speed Limiter

ADAS

1. Blind Spot Radar

- **Static or Dynamic Calibration (Lane Change Assistance Calibration)**

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2021 Porsche 911 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is installed (Line number 160201087)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

WM, 917025 Calibrating Lane Change Assist

2. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Adaptive Cruise Control and Adaptive Cruise Control with Stop and Go on this vehicle.

The 2021 Porsche 911 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 7)
- Front bumper is installed (Line number 7, 8, and 86)
- Wave Radar Sensor is installed (Line number 26)
- Four Wheel Alignment is repaired (Line number 187900500)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

WM, 631019 Removing and installing front bumper



OEM procedure requirement and instructions:

WM, 278515 Adjusting control unit for distance measuring sensor

3. Night Vision

- **Static Calibration (Infrared System Calibration)**

The Night Vision is responsible for Night Vision on this vehicle.

The 2021 Porsche 911 repair manual states that a operation is required for the Night Vision when the following occurs:

- Grille is installed (Line number 15)
- Four Wheel Alignment is repaired (Line number 187900500)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

WM, 908055 Replacing infrared camera

OEM procedure requirement:

WM, 908019 Removing and installing infrared camera

OEM procedure requirement:

WM, 449503 Performing front and rear suspension alignment

4. Rear Camera

- **Static Calibration (Rear View Camera Calibration)**

The Rear Camera is responsible for Rear Camera on this vehicle.

The 2021 Porsche 911 repair manual states that a operation is required for the Rear Camera when the following occurs:

- Rear bumper is installed (Line number 160201087)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

WM, 914325 Calibrating reversing camera

OEM procedure requirement:

WM, 635555 Replacing rear apron

5. Surround-View Monitor Cameras

- **Static Calibration (Peripheral Camera Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2021 Porsche 911 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front View Camera is installed (Line number 28)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

WM, 917225 Calibrating Surround View camera

OEM procedure requirement:

WM, 916919 Removing and installing front camera

6. Windshield Camera(s)

• **Static Calibration (Driver Assistance Systems Front Camera Calibration)**

The Windshield Camera(s) is responsible for Lane Keep Assist on this vehicle.

The 2021 Porsche 911 repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is installed (Line number 91)
- Four Wheel Alignment is repaired (Line number 187900500)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

WM, 449503 Performing front and rear suspension alignment

OEM procedure requirement and instructions:

WM, 963855 Replacing front camera

Safety



7. Headlight Assembly - Programming Required if Attached Control Modules are also Replaced

- **Programming (Headlamp Module Coding & Startup Procedure)**

The 2021 Porsche 911 repair manual states that a operation is required for the Headlight Assembly - Programming Required if Attached Control Modules are also Replaced when the following occurs:

- Headlamp is replaced (Line number 33 and 35)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

WM, 941655 Replacing headlight control unit

OEM procedure requirement:

WM, 941619 Removing and installing headlight control unit

8. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2021 Porsche 911 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

WM, 691301 Checking three-point belt and seat-belt buckle

March 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2023 Hyundai Elantra Preferred
VIN: KMHLM4AG2PU398802

1 Required ADAS Operation
1 Required Steering Operation
1 Required Safety Operation
2 Required Operational Operations
1 Required Comfort & Convenience Operation

There are 1 ADAS, 1 Steering, 1 Safety, 2 Operational, and 1 Comfort & Convenience that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind-Spot Collision-Avoidance Assist
Forward Collision Avoidance Assist with Pedestrian Detection
Lane Keeping Assist
Rear Camera
Rear Cross-Traffic Collision-Avoidance Assist
Traffic Sign Recognition with Speed Limiter

ADAS

1. Blind Spot Radar

- **Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)**
- **Dynamic Calibration (BSD Unit Alignment)**

The Blind Spot Radar is responsible for Blind-Spot Collision-Avoidance Assist and Rear Cross-Traffic Collision-Avoidance Assist on this vehicle.

The 2023 Hyundai Elantra repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 52)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1\\$3_5_4_3&sitinfolist=94^9402^94020100^none^801^1^ENG^HY^CN713^2021^all^0^none^none^none^SHOP^\\$94^9402^94020100^none^801^8^ENG^HY^CN713^2021^all^0^none^none^none^SHOP^^\\$94^9402^94020100^none^801^4^ENG^HY^CN713^2021^all^0^none^none^none^non e^SHOP^^\\$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20\(ADAS\)&cat1=2022%20%3E%20G%201.6%20T-GDI%20GAMMA%20II&content_no=SHOP|ENG|9275|2022|27723|all|0|1\\$3_5_4_3|801&cntssn=64029&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1$3_5_4_3&sitinfolist=94^9402^94020100^none^801^1^ENG^HY^CN713^2021^all^0^none^none^none^SHOP^$94^9402^94020100^none^801^8^ENG^HY^CN713^2021^all^0^none^none^none^SHOP^^$94^9402^94020100^none^801^4^ENG^HY^CN713^2021^all^0^none^none^none^non e^SHOP^^$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20(ADAS)&cat1=2022%20%3E%20G%201.6%20T-GDI%20GAMMA%20II&content_no=SHOP|ENG|9275|2022|27723|all|0|1$3_5_4_3|801&cntssn=64029&printtype=content_print&imgnum=1)

Steering

2. Steering Angle Sensor

• Midpoint Setting (ASP Calibration)

The 2023 Hyundai Elantra repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 73)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2\\$14_6_5_1&sitinfolist=61^6140^61400500^none^801^6^ENG^HY^CN713^2021^st^12^none^none^none^SHOP^\\$61^6140^61400500^none^801^5^ENG^HY^CN713^2021^st^12^none^none^none^none^SHOP^\\$&firstnodedesc=Steering%20System&cat1=2022%20%3E%20G%202.0%20AKS%20NU%20PE&content_no=SHOP|ENG|9275|2022|27823|st|12|2\\$14_6_5_1|801&cntssn=63930&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2$14_6_5_1&sitinfolist=61^6140^61400500^none^801^6^ENG^HY^CN713^2021^st^12^none^none^none^SHOP^$61^6140^61400500^none^801^5^ENG^HY^CN713^2021^st^12^none^none^none^none^SHOP^$&firstnodedesc=Steering%20System&cat1=2022%20%3E%20G%202.0%20AKS%20NU%20PE&content_no=SHOP|ENG|9275|2022|27823|st|12|2$14_6_5_1|801&cntssn=63930&printtype=content_print&imgnum=1)

OEM procedure requirement:

<https://static.nhtsa.gov/odi/tsbs/2020/MC-10172142-0001.pdf>

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2023 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



Operational

4. Clock and Audio

- **Reset (Reset Time and Radio Presets)**

The 2023 Hyundai Elantra repair manual states that a operation is required for the Clock and Audio when the following occurs:

- Battery is repaired (Line number 77)
- Battery is installed (Line number 77)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1\\$2_1&sitinfolist=92^9200^none^none^102^none^ENG^HY^CN713^2021^all^0^none^none^none^SHOP^\\$&firstnodedesc=Body%20Electrical%20System&cat1=2022%20%3E%20G%201.6%20T-GDI%20GAMMA%20II&content_no=SHOP|ENG|9275|2022|](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1$2_1&sitinfolist=92^9200^none^none^102^none^ENG^HY^CN713^2021^all^0^none^none^none^SHOP^$&firstnodedesc=Body%20Electrical%20System&cat1=2022%20%3E%20G%201.6%20T-GDI%20GAMMA%20II&content_no=SHOP|ENG|9275|2022|)

27723|all|0|1\$2_1|
102&cntssn=64025&printtype=content_print&imgnum=1

5. Power Window System

• Reset (Reset Power Windows)

The 2023 Hyundai Elantra repair manual states that a operation is required for the Power Window System when the following occurs:

- Battery is installed (Line number 77)
- Battery is repaired (Line number 77)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1\\$2_1&sitinfolist=92^9200^none^none^102^none^ENG^HY^CN713^2021^all^0^none^none^none^SHOP^^\\$&firstnode_desc=Body%20Electrical%20System&cat1=2022%20%3E%20G%201.6%20T-GDI%20GAMMA%20II&content_no=SHOP|ENG|9275|2022|27723|all|0|1\\$2_1|102&cntssn=64025&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1$2_1&sitinfolist=92^9200^none^none^102^none^ENG^HY^CN713^2021^all^0^none^none^none^SHOP^^$&firstnode_desc=Body%20Electrical%20System&cat1=2022%20%3E%20G%201.6%20T-GDI%20GAMMA%20II&content_no=SHOP|ENG|9275|2022|27723|all|0|1$2_1|102&cntssn=64025&printtype=content_print&imgnum=1)

Comfort & Convenience

6. Sunroof System

• Reset (Reset Sunroof System)

The 2023 Hyundai Elantra repair manual states that a operation is required for the Sunroof System when the following occurs:

- Battery is repaired (Line number 77)
- Battery is installed (Line number 77)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

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https://www.hyundaitechinfo.com/viewer/print\_pop.aspx?pos=1\$2\_1&sitinfolist=92^9200^none^none^102^none^ENG^HY^CN713^2021^all^0^none^none^none^none^SHOP^^\$&firstnodedesc=Body%20Electrical%20System&cat1=2022%20%3E%20G%201.6%20T-GDI%20GAMMA%20II&content\_no=SHOP|ENG|9275|2022|27723|all|0|1\$2\_1|102&cntssn=64025&printtype=content\_print&imgnum=1
```

OEM procedure requirement and instructions:



```
https://www.hyundaitechinfo.com/viewer/print\_pop.aspx?pos=1\$2\_1&sitinfolist=92^9200^none^none^102^none^ENG^HY^CN713^2021^all^0^none^none^none^none^SHOP^^\$&firstnodedesc=Body%20Electrical%20System&cat1=2022%20%3E%20G%201.6%20T-GDI%20GAMMA%20II&content\_no=SHOP|ENG|9275|2022|27723|all|0|1\$2\_1|102&cntssn=64025&printtype=content\_print&imgnum=1
```

March 20, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Mercedes-Benz GLC-Class - 253 GLC 300
VIN: W1N0G8EB7MV318784

1 Required Safety Operation

There is 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

PRE-SAFE Brake with Pedestrian Recognition
Rear Cross-Traffic Alert

Optional ADAS Features

Active Blind Spot Assist
Active Brake Assist
Active Lane Keeping Assist
Active Speed Limit Assist
Adaptive Cruise Control with Stop and Go
Blind Spot Warning
DISTRONIC PLUS with Steering Assist
Front and Rear Parking Sensors
Front Cross-Traffic Alert
Front Mounted Camera
Head-Up Display
Lexus Teammate
PARKTRONIC with Active Parking Assist
Rear Camera
Right-Side Camera
Surround View rear mounted camera
Surround-View Monitor



Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2021 Mercedes-Benz GLC-Class - 253 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz-position-statements/26689.pdf>



March 20, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Kia Soul +
VIN: KNDJP3A57H7467818

1 Required Safety Operation

There is 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Blind Spot Warning
Forward Collision Warning
Lane Departure Warning
Rear Cross-Traffic Alert

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2017 Kia Soul repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



March 20, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Ford Mustang V6
VIN: 1FA6P8AM5H5334907

2 Required Safety Operations

There are 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seatbelt System

• Operation Check (Road Test Inspection)

The 2017 Ford Mustang repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56801/component/1285/itype/377/nonstandard/11321/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Ford Mustang repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



March 20, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Audi Q7 3.0T Sport
VIN: WA1DGCFE5ED018019

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Audi Side Assist
Rear Camera

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Front and Rear Parking Sensors
Front Mounted Camera
Lane Departure Warning

ADAS

1. Blind Spot Radar

- **Static Calibration (Lane Change Assistance Calibration)**

The Blind Spot Radar is responsible for Audi Side Assist on this vehicle.

The 2014 Audi Q7 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is installed (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53627/component/7848/itype/387/nonstandard/939145/selfRefLink/true>

Safety

2. Seatbelt System

- **Check Installation Angle (Seatbelts Condition and Function Check)**

The 2014 Audi Q7 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/53626/component/1285/itype/383/nonstandard/879069/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53626/component/465/itype/383/nonstandard/878840/selfRefLink/true>

3. Vehicle Electronics

- **Inspection (Seatbelts Condition and Function Check)**
- **OEM Pre-Scan (Airbag Control Module Crash Entry Check)**

The 2014 Audi Q7 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/53626/component/6978/itype/383/nonstandard/878830/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53626/component/6978/itype/383/nonstandard/878830/selfRefLink/false>
<https://my.alldata.com/repair/#/repair/article/53626/component/6978/itype/383/nonstandard/878830/selfRefLink/false>

March 20, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Ford Edge SEL
VIN: 2FMPK4J91KBC66394

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering
Ford Co-Pilot360 - Automatic Emergency Braking
Ford Co-Pilot360 - Blind Spot Information System
Ford Co-Pilot360 - Lane-Keeper Assist
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Alert
Rear Parking Sensors

Optional ADAS Features

Evasion Assist System
Lexus Teammate

ADAS



1. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering on this vehicle.

The 2019 Ford Edge repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59252/guid/nafm19edge-g2011080_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Parking Sensors - Rear

- **Operation Check (Elevation System Check)**
- **Operation Check (Azimuth System Check)**



The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2019 Ford Edge repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- **Rear bumper is installed (Line number 116200510)**



Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59252/guid/nafm19edge-g1737070_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59252/component/7300/itype/402/nonstandard/11524/selfRefLink/false>

Safety

3. Seatbelt System

• Operation Check (Road Test Inspection)

The 2019 Ford Edge repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59252/component/1285/itype/377/nonstandard/11534/selfRefLink/false>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2019 Ford Edge repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



March 20, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Toyota RAV4 XLE
VIN: 2T3WFREV8EW119936

2 Required Safety Operations

There are 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2014 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53001/component/465/itype/15/nonstandard/211226/selfRefLink/false>

2. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2014 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



March 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Honda Fit LX
VIN: 3HGGK5H56GM103681

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2016 Honda Fit repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55330/component/6978/itype/383/nonstandard/101691/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2016 Honda Fit repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm



March 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Acura TLX V6 w/Technology Pkg
VIN: 19UUB3F57HA800298

3 Required ADAS Operations 2 Required Safety Operations

There are 3 ADAS and 2 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Blind Spot Warning
- Forward Collision Warning
- Lane Departure Warning
- Pedestrian Detection Warning
- Rear Camera
- Rear Collision Warning
- Rear Parking Sensors

ADAS

1. Blind Spot Radar

- **Check Installation Angle (BSI Radar Unit Mounting Area Check)**
- **Static Calibration (BSI Radar Unit Aiming Inspection)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.

The 2017 Acura TLX repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/57021/guid/na-au17TLX_TZ3-R006301_enu_html

2. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2017 Acura TLX repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 4 and 5)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/service.html?package=61TZ3&lang=enu&sie=R009736_enu

3. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Lane Departure Warning on this vehicle.

The 2017 Acura TLX repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57021/guid/na-au17TLX_TZ3-R006272_enu_html

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

4. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)**

The 2017 Acura TLX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57020/component/6978/itype/383/nonstandard/13305/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2017 Acura TLX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Acura_Vehicles.htm

March 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Toyota RAV4 XLE
VIN: 2T3WFREV8EW119936

2 Required Safety Operations

There are 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2014 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53001/component/465/itype/15/nonstandard/211226/selfRefLink/false>

2. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2014 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



March 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Hyundai Elantra GL
VIN: KMHD84LF7HU421988

- 1 Required ADAS Operation**
- 1 Required Steering Operation**
- 1 Required Safety Operation**

There are 1 ADAS, 1 Steering, and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning

ADAS

1. Blind Spot Radar

- Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)
- Dynamic Calibration (BSD Unit Alignment)
- Programming (Variant Coding)

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.



The 2017 Hyundai Elantra repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is replaced (Line number 15)
- Quarter Panel is installed (Line number 15)
- Blind Spot Module is installed (Line number 47)
- Blind Spot Module is replaced (Line number 47)
- Rear bumper is repaired (Line number 53, 54, and 57)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59149/component/7821/itype/376/nonstandard/3101658/selfRefLink/false>

Steering

2. Steering Angle Sensor

- Midpoint Setting (ASP Calibration)

The 2017 Hyundai Elantra repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 83)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59149/component/3926/itype/422/nonstandard/1309606/selfRefLink/false>

OEM procedure requirement:

<https://static.nhtsa.gov/odi/tsbs/2020/MC-10172142-0001.pdf>



Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2017 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



March 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Toyota RAV4 LE
VIN: 2T3ZFREV8JW515324

2 Required ADAS Operations
1 Required Steering Operation
2 Required Safety Operations

There are 2 ADAS, 1 Steering, and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Forward Collision Mitigation
Lane Departure Alert
Pedestrian Impact Prevention
Rear Camera

ADAS

1. Rear Camera

- **Static Calibration (Park Assist Monitor System Calibration - Rear view cameras with active parking gridlines only)**

The Rear Camera is responsible for Rear Camera on this vehicle.

The 2018 Toyota RAV4 repair manual states that a operation is required for the Rear Camera when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 34)
- Trunk Lid/Lift Gate is replaced (Line number 34)
- Rear gate garnish is installed (Line number 56)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58323/component/1283/itype/387/nonstandard/214333/selfRefLink/false>

2. Windshield Camera(s)

- **Static Calibration (Front Camera - Adjustment)**

The Windshield Camera(s) is responsible for Lane Departure Alert on this vehicle.

The 2018 Toyota RAV4 repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Four Wheel Alignment is repaired (Line number 105900500)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58324/guid/n>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58324/component/3399/itype/376/nonstandard/216299/selfRefLink/true>

Steering

3. Yaw Rate and Acceleration Sensor

- **Reset (Yaw Rate and Acceleration Sensor Zero Point Calibration)**

The 2018 Toyota RAV4 repair manual states that a operation is required for the Yaw Rate and Acceleration Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 105900500)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56674/component/585/itype/387/nonstandard/214474/selfRefLink/false>

Safety

4. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2018 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53001/component/465/itype/15/nonstandard/211226/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm

March 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Honda Fit Sport
VIN: LUCGE8H72D3007693

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2013 Honda Fit repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52603/component/3504/itype/383/nonstandard/1534772/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2013 Honda Fit repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm



March 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Toyota Corolla LE
VIN: 2T1BURHE7JC006323

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Dynamic Radar Cruise Control
Forward Collision Mitigation
Lane Departure Alert
Pedestrian Impact Prevention
Rear Camera

Steering

1. Yaw Rate and Acceleration Sensor

- **Reset (Yaw Rate and Acceleration Sensor Zero Point Calibration)**

The 2018 Toyota Corolla repair manual states that a operation is required for the Yaw Rate and Acceleration Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 79)

Please see the documentation from the manufacturer below.

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OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/58305/guid/natty2014-2019corol-RM100000000YQY0_html

Safety

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2018 Toyota Corolla repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58306/component/465/itype/383/nonstandard/212061/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58306/component/465/itype/383/nonstandard/212057/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Toyota Corolla repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/CoRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm



March 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Chevrolet Equinox LT
VIN: 2GNAXVEX4K6157017

2 Required ADAS Operations
1 Required Steering Operation
2 Required Safety Operations
1 Required Operational Operation

There are 2 ADAS, 1 Steering, 2 Safety, and 1 Operational that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Lane Change Alert with Side Blind Zone Alert
Rear Parking Sensors

Optional ADAS Features

Rear Camera
Rear Cross-Traffic Alert

ADAS

1. Blind Spot Radar

- **Programming (Side Object Sensor Module - Programming and Setup)**

The Blind Spot Radar is responsible for Lane Change Alert with Side Blind Zone Alert on this vehicle.

The 2019 Chevrolet Equinox repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Blind Spot Module is replaced (Line number 54)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59244/guid/nagc19equin-5030887_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59244/component/1/itype/387/nonstandard/11192/selfRefLink/false>

2. Parking Sensors - Rear

- **Learn (Parking Assist Sensor Learn Calibration)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2019 Chevrolet Equinox repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Parking Sensor - Rear is replaced (Line number 60 and 65)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59244/component/1283/itype/384/nonstandard/11282/selfRefLink/false>

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/gm-driver-assistance-systems-aid.pdf>

Steering

3. Steering Angle Sensor

- **Reset (Steering Position Sensor Calibration)**

The 2019 Chevrolet Equinox repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 90)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59244/component/585/itype/376/nonstandard/11044/selfRefLink/false>

Safety

4. Repairs and Inspections Required After a Collision

- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**
- **Inspection (Post Collision Safety Inspection)**

The 2019 Chevrolet Equinox repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Chevrolet Equinox repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

Operational

6. Power Trunk Lid/Liftgate

- **Learn (Liftgate Relearn)**
- **Learn (Garage Height Calibration)**

The 2019 Chevrolet Equinox repair manual states that a operation is required for the Power Trunk Lid/Liftgate when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 22)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59244/component/715/itype/387/nonstandard/10825/selfRefLink/false>



March 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Ram 1500 Sport
VIN: 1C6RR7MT6GS360891

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Front and Rear Parking Sensors
Rear Camera

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2016 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-)

document.pdf



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March 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Ram 1500 Outdoorsman
VIN: 1C6RR7LM9JS226815

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2018 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

March 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Hyundai Venue Trend
VIN: KMHRC8A33MU119290

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Collision Warning
Rear Camera
Rear Cross-Traffic Collision Warning

ADAS

1. Blind Spot Radar

- Dynamic Calibration (BSD Unit Alignment)
- Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)
- Programming (Variant Coding)

The Blind Spot Radar is responsible for Blind Spot Collision Warning and Rear Cross-Traffic Collision Warning on this vehicle.



The 2021 Hyundai Venue repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is replaced (Line number 23)
- Quarter Panel is installed (Line number 23)
- Blind Spot Module is installed (Line number 45 and 46)
- Blind Spot Module is replaced (Line number 46)
- Rear bumper is repaired (Line number 64, 65, and 71)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1\\$3_3_4_3&sitinfolist=94^9402^94020100^none^801^1^ENG^HY^QX13^2020^all^0^none^none^none^SHOP^^\\$94^9402^94020100^none^801^8^ENG^HY^QX13^2020^all^0^none^none^none^SHOP^^\\$94^9402^94020100^none^801^4^ENG^HY^QX13^2020^all^0^none^none^none^none^SHOP^^\\$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20\(ADAS\)&cat1=2021%20%3E%20G%201.6%20MPI%20GAMMA%20II&content_no=SHOP|ENG|7913|2021|24841|all|0|1\\$3_3_4_3|801&cntssn=57873&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1$3_3_4_3&sitinfolist=94^9402^94020100^none^801^1^ENG^HY^QX13^2020^all^0^none^none^none^SHOP^^$94^9402^94020100^none^801^8^ENG^HY^QX13^2020^all^0^none^none^none^SHOP^^$94^9402^94020100^none^801^4^ENG^HY^QX13^2020^all^0^none^none^none^none^SHOP^^$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20(ADAS)&cat1=2021%20%3E%20G%201.6%20MPI%20GAMMA%20II&content_no=SHOP|ENG|7913|2021|24841|all|0|1$3_3_4_3|801&cntssn=57873&printtype=content_print&imgnum=1)

Safety

2. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2021 Hyundai Venue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

March 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Porsche Macan Base (PDK)
VIN: WP1AA2A57HLB00807

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Porsche requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Front and Rear Parking Sensors
Rear Camera

Optional ADAS Features

Blind Spot Warning
Forward Collision Warning
Front Mounted Camera
Lane Departure Prevention
Lane Departure Warning
Right-Side Camera
Surround-View Monitor

ADAS

1. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2017 Porsche Macan repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 2)
- Front bumper is installed (Line number 2 and 3)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

WM, 278515 Adjusting control unit for distance measuring sensor

Safety

2. Headlight Assembly - Programming Required if Attached Control Modules are also Replaced

- **Programming (Headlamp Module Coding & Startup Procedure)**

The 2017 Porsche Macan repair manual states that a operation is required for the Headlight Assembly - Programming Required if Attached Control Modules are also Replaced when the following occurs:

- Headlamp is replaced (Line number 14)

Please see the documentation from the manufacturer below.

OEM procedure instructions:



WM, 941625 Programming (central) headlight control unit



OEM procedure requirement:



WM, 945819 Removing and installing light bulb igniter



March 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Honda Civic Touring
VIN: 2HGFC3B9XJH451644

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System
Lane Keeping Assist System
Rear Camera
Right-Side Camera

ADAS

1. Front Radar

- **Vertically Align Sensor (Vertical Radar Aim)**
- **Static Calibration (Horizontal Radar Aim)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Collision Mitigation Braking System on this vehicle.

The 2018 Honda Civic repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 5 and 8)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58209/component/1283/itype/387/nonstandard/102695/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, Collision Mitigation Braking System, and Lane Keeping Assist System on this vehicle.

The 2018 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 5 and 8)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58209/component/1283/itype/387/nonstandard/102694/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2018 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58208/component/6978/itype/383/nonstandard/103252/selfRefLink/false>



4. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2018 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58208/guid/nah18CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58208/component/611/itype/15/nonstandard/102316/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2018 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm

March 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Jeep Grand Cherokee Limited
VIN: 1C4RJFBG0MC742968

1 Required Safety Operation

There is 1 Safety that Jeep requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2021 Jeep Grand Cherokee repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.moparrepairconnect.com/dA/9c84705026/>

Collision_Position_Statement_Scan_Tool_201-
document.pdf



March 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Ram 1500 Limited
VIN: 1C6SRFHT1NN278228

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Mitigation
Front and Rear Parking Sensors
Rear Camera
Rear Collision Warning

ADAS

1. Blind Spot Radar

- **Dynamic Calibration (BSS Calibration)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.

The 2022 Ram 1500 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Tail Lamp is installed (Line number 34 and 35)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62099/guid/nacr21dt-GUID-0E008AF9-8BEE-4B68-9B15-49570FC3A84A_html

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)**

The 2022 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

March 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Ram 1500 Rebel
VIN: 1C6RR7YT0HS672362

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2017 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

March 15, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Subaru Forester Premier
VIN: JF2SKEXCXLH547722

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
EyeSight - Adaptive Cruise Control
EyeSight - Lane Keep Assist
EyeSight - Pre-Collision Braking
EyeSight - Pre-Collision Braking
Rear Camera
Rear Collision Mitigation

ADAS

1. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Camera adjustment and function check)

The Windshield Camera(s) is responsible for EyeSight - Adaptive Cruise Control, EyeSight - Lane Keep Assist, EyeSight - Pre-Collision Braking, and EyeSight - Pre-Collision Braking on this vehicle.

The 2020 Subaru Forester repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60801/component/6798/itype/376/nonstandard/16779/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60801/component/1283/itype/15/nonstandard/10232/selfRefLink/false>

Safety

2. Occupant Sensor

- OEM Pre-Scan (Read Airbag module, check for DTC B1650 or B1655)

The 2020 Subaru Forester repair manual states that a operation is required for the Occupant Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60801/guid/nasb20forester-s067501e45_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60801/component/6978/itype/376/nonstandard/15887/selfRefLink/false>

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2020 Subaru Forester repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre-_and_Post-_Scanning_of_Collision_Vehicles.htm

4. Vehicle Electronics

- **Inspection (Safety System Inspection After a Collision)**

The 2020 Subaru Forester repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60801/component/6978/itype/376/nonstandard/15887/selfRefLink/false>



March 15, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 BMW 4 Series (F32 Coupe, F33 Convertible, F36 Gran Coupe) 430i xDrive
VIN: WBA4J3C04LBL12131

3 Required ADAS Operations 3 Required Safety Operations

There are 3 ADAS and 3 Safety that BMW requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Driving Assistant
- Adaptive Cruise Control with Stop and Go
- Lane Departure Warning
- Pedestrian Impact Prevention
- Rear Camera
- Right-Side Camera
- Surround-View Monitor

Optional ADAS Features

- Active Blind Spot Detection
- Front Mounted Camera
- Head-Up Display
- Park Distance Control - Front and Rear Parking Sensors
- Parking Assistant - Automated Parking Assistance

ADAS

1. Front Radar

- **Static Calibration (Adjusting the Front Radar Sensor)**
- **Check Installation Angle (Adjusting the ACC Sensor - Vertical Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2020 BMW 4 Series (F32 Coupe, F33 Convertible, F36 Gran Coupe) repair manual states that a operation is required for the Front Radar when the following occurs:

- Four Wheel Alignment is repaired (Line number 106931105 and 107900501)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60598/component/871/itype/5/nonstandard/111960/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60598/component/3399/itype/5/nonstandard/112678/selfRefLink/false>



2. Rear Camera

- **Dynamic Calibration (Calibration of the Reversing Camera)**

The Rear Camera is responsible for Rear Camera on this vehicle.

The 2020 BMW 4 Series (F32 Coupe, F33 Convertible, F36 Gran Coupe) repair manual states that a operation is required for the Rear Camera when the following occurs:

- Rear bumper is repaired (Line number 90 and 91)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60598/component/6630/itype/387/nonstandard/110114/selfRefLink/false>

3. Surround-View Monitor Cameras

- **Dynamic Calibration (Calibrating the top view camera)**
- **Programming (Encode/Program Control Unit(s))**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2020 BMW 4 Series (F32 Coupe, F33 Convertible, F36 Gran Coupe) repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front View Camera is replaced (Line number 6)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60598/component/6798/itype/401/nonstandard/114034/selfRefLink/false>

Safety

4. Headlight Assembly - Programming Required if Attached Control Modules are also Replaced

- **Programming (Encode/Program Control Unit)**

The 2020 BMW 4 Series (F32 Coupe, F33 Convertible, F36 Gran Coupe) repair manual states that a operation is required for the Headlight Assembly - Programming Required if Attached Control Modules are also Replaced when the following occurs:

- Headlamp is replaced (Line number 40, 41, and 43)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60598/component/898/itype/401/nonstandard/110649/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60598/component/896/itype/401/nonstandard/113448/selfRefLink/false>

5. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2020 BMW 4 Series (F32 Coupe, F33 Convertible, F36 Gran Coupe) repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60598/component/1285/itype/383/nonstandard/112810/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60598/component/1285/itype/383/nonstandard/113902/selfRefLink/false>

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 BMW 4 Series (F32 Coupe, F33 Convertible, F36 Gran Coupe) repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW

%2C_Mini
%2FPreliminary_Diagnostics_For_Collision_Repair.htm



March 15, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Honda Civic LX
VIN: 2HGFC2F64JH038953

2 Required ADAS Operations
1 Required Steering Operation
3 Required Safety Operations

There are 2 ADAS, 1 Steering, and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera

ADAS

1. Front Radar

- **Vertically Align Sensor (Vertical Radar Aim)**
- **Static Calibration (Horizontal Radar Aim)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow and Collision Mitigation Braking System on this vehicle.

The 2018 Honda Civic repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1)
- Front bumper (if damaged within 300mm of radar) is replaced (Line number 2)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 16 and 32)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58209/component/1283/itype/387/nonstandard/102695/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Lane Keeping Assist System on this vehicle.

The 2018 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 16 and 32)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58209/component/1283/itype/387/nonstandard/102694/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Steering



3. Vehicle Stability Assist Sensor

- **Reset (VSA Sensor Neutral Position Memorization)**

The 2018 Honda Civic repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 61)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/58209/guid/nah18CIVIC_TBA-R001644_enu_html

Safety

4. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2018 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58208/component/6978/itype/383/nonstandard/103252/selfRefLink/false>

5. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2018 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58208/guid/nah18CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58208/component/611/itype/15/nonstandard/102316/selfRefLink/false>

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2018 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm

March 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Audi A4 Premium
VIN: WAUBFCFL9FN044212

2 Required Safety Operations

There are 2 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Seatbelt System

- Check Installation Angle (Seatbelts Condition and Function Check)

The 2015 Audi A4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54866/component/6978/itype/383/nonstandard/878828/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54866/component/1285/itype/15/nonstandard/878826/selfRefLink/false>

2. Vehicle Electronics

- **Inspection (Seatbelts Condition and Function Check)**
- **OEM Pre-Scan (Airbag Control Module Crash Entry Check)**

The 2015 Audi A4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54866/component/6978/itype/383/nonstandard/878830/selfRefLink/false>

March 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Honda Civic Touring
VIN: 2HGFE1F96NH002380

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Warning
Collision Mitigation Braking System
Forward Collision Mitigation
Front and Rear Parking Sensors
Lane Keeping Assist System with Road Departure
Mitigation
Lexus Teammate
Rear Camera
Rear Collision Warning
Traffic Jam Assist
Traffic Sign Recognition

ADAS

1. Blind Spot Radar

- **Check Installation Angle (BSI Radar Unit Mounting Area Check)**
- **Dynamic Calibration (Blind Spot Information (BSI) System Learning Value Reset)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.

The 2022 Honda Civic repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 18)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61T20&lang=enu&sie=R002958_enu

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

- **Static or Dynamic Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Lane Keeping Assist System with Road Departure Mitigation, and Traffic Jam Assist on this vehicle.

The 2022 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 18)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61T20&lang=enu&sie=R005947_enu

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2022 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61T20&lang=enu&sie=R001475_enu

4. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2022 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=T002634_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=G001469_enu

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2022 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm

March 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 GMC Sierra 1500 Denali
VIN: 1GTU9FET9LZ199059

2 Required Safety Operations

There are 2 Safety that GMC requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Front and Rear Parking Sensors
Hitch Guidance - Trailer Backup Assist
Lane Change Alert with Side Blind Zone Alert
Rear Cross-Traffic Alert

Optional ADAS Features

Adaptive Cruise Control
Following Distance Indicator
Forward Collision Alert with Automatic Braking
Front Mounted Camera
Front Pedestrian Braking
Head-Up Display
Lane Keep Assist with Lane Departure Warning
Pickup Box Camera
Rear Camera
Right-Side Camera
Surround-View Monitor

Safety



1. Repairs and Inspections Required After a Collision

- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

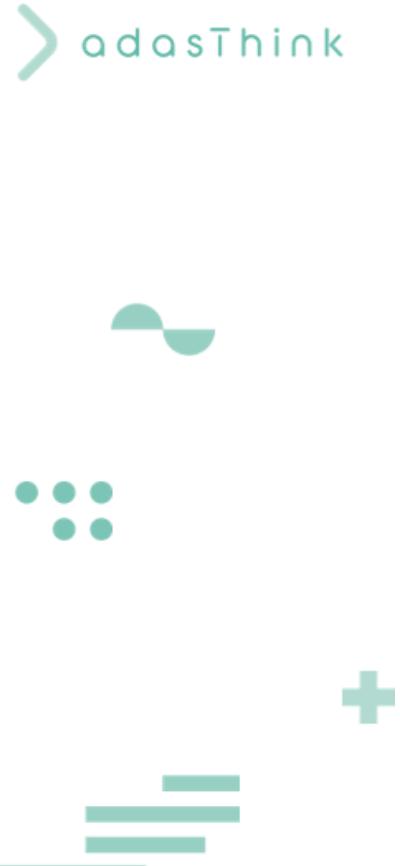
The 2020 GMC Sierra 1500 repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>



2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 GMC Sierra 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

March 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Mazda Mazda6 Grand Touring
VIN: JM1GL1W50H1147844

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Driving Display Head-Up Display
Adaptive Cruise Control
Blind Spot Warning
Lane Keep Assist
Rear Camera
Rear Cross-Traffic Alert
Smart City Brake Support
Traffic Sign Recognition

Optional ADAS Features

Rear Parking Sensors

ADAS

1. Blind Spot Radar

- **Static Calibration (Blind Spot Monitoring (BSM) Radar Test)**

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2017 Mazda Mazda6 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is replaced (Line number 2)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/56638/guid/natk17mazda6gl-SM1328455_html

Safety

2. Seat Weight Sensor

- **Occupant Sensor Calibration (DTC Inspection & Calibration)**

The 2017 Mazda Mazda6 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56638/guid/natk17mazda6gl-SM1327347_html



OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56638/component/3504/itype/387/nonstandard/13120/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2017 Mazda Mazda6 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement:

https://my.alldata.com/CoIRef/Position_Statements/Mazda/Pre-_and_Post-Repair_Scanning.htm

March 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Ford F-150 (Trim Not Selected)
VIN: 1FTFW1E41KFC93000

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Ford Co-Pilot360 - Adaptive Cruise Control with Stop-and-Go
Ford Co-Pilot360 - Pre-Collision Assist with Automatic Emergency Braking
Rear Camera with Dynamic Hitch Assist
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Active Park Assist
Blind Spot Information System with Cross-Traffic Alert
Ford Co-Pilot360 - Blind Spot Information System
Front Mounted Camera
Lane Keeping System
Pedestrian Impact Prevention
Pro-Trailer Backup Assist
Rear Cross-Traffic Alert
Rear Parking Sensors

ADAS

1. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**
- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Ford Co-Pilot360 - Adaptive Cruise Control with Stop-and-Go on this vehicle.

The 2019 Ford F-150 repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision
- Front bumper is installed (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59763/component/1246/itype/5/nonstandard/112211/selfRefLink/true>

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59763/guid/nafm19fstrk1-g1948260_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59763/component/7309/itype/401/nonstandard/112016/selfRefLink/true>

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Surround-View Monitor Cameras

- **Static Calibration (360-Degree View Camera Alignment)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2019 Ford F-150 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 3)
- Grille is installed (Line number 7)
- Side Mirror is installed (Line number 17)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59763/guid/nafm19fstrk1-g1719720_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59763/component/1283/itype/392/nonstandard/111483/selfRefLink/false>

Safety



3. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2019 Ford F-150 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59763/component/1285/itype/377/nonstandard/111021/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Ford F-150 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

March 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Honda Odyssey EX-L
VIN: 5FNRL6H67LB504139

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Blind Spot Warning
- Collision Mitigation Braking System
- Collision Mitigation Braking System with Forward Collision Warning
- Lane Keeping Assist System
- Rear Camera
- Rear Collision Warning

Optional ADAS Features

Rear Parking Sensors

ADAS

1. Front Radar

- **Static Calibration (Horizontal Radar Aim)**

- **Vertically Align Sensor (Vertical Radar Aim)**

The Front Radar is responsible for Adaptive Cruise Control, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2020 Honda Odyssey repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1)
- Front bumper (if damaged within 300mm of radar) is replaced (Line number 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60810/component/1246/itype/387/nonstandard/12826/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/CoRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety



2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2020 Honda Odyssey repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60810/component/6978/itype/383/nonstandard/12799/selfRefLink/false>

3. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2020 Honda Odyssey repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60810/guid/nahn20odyssey_thr-T004552_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60810/component/611/itype/15/nonstandard/12142/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2020 Honda Odyssey repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda_Post_Collision_Diagnostic_Scan_and_Calibration_Requirements_for_Honda_Vehicles.htm



March 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Mazda CX-5 (Trim Not Selected)
VIN: JM3KFBDL0H0205473

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert
Smart Brake Support

Optional ADAS Features

Adaptive Cruise Control
Head-Up Display
Lane Keep Assist
Rear Parking Sensors
Traffic Sign Recognition

ADAS

1. Blind Spot Radar

- **Static Calibration (Blind Spot Monitoring (BSM) Radar Test)**

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2017 Mazda CX-5 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is replaced (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56994/component/1283/itype/383/nonstandard/14014/selfRefLink/false>

Safety

2. Seat Weight Sensor

- **Occupant Sensor Calibration (DTC Inspection & Calibration)**

The 2017 Mazda CX-5 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56994/guid/ntk17cx5kf-SM1236004_html



OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56994/component/3504/itype/387/nonstandard/12419/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2017 Mazda CX-5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/CoIRef/Position_Statements/Mazda/Pre-_and_Post-Repair_Scanning.htm

March 10, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Alfa Romeo Stelvio Ti Sport
VIN: ZASPAKBNXM7D04487

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Alfa Romeo requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot Assist
- Adaptive Cruise Control with Stop and Go
- Forward Collision Mitigation
- Front and Rear Parking Sensors
- Lane Keep Assist
- Lexus Teammate
- Rear Camera
- Traffic Sign Recognition with Speed Limiter

ADAS



1. Front Radar

- **Static Calibration (ACC Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2021 Alfa Romeo Stelvio repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 1, 2, and 28)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62482/component/871/itype/387/nonstandard/210351/selfRefLink/false>

Safety

2. Seatbelt System

- **Inspection (Post Collision Seat Belt Inspection)**

The 2021 Alfa Romeo Stelvio repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62482/component/6978/itype/376/nonstandard/1400018/selfRefLink/false>

3. Vehicle Electronics

- **OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)**

The 2021 Alfa Romeo Stelvio repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62482/component/6978/itype/376/nonstandard/1400020/selfRefLink/false>

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

March 10, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Kia Sorento LX
VIN: 5XYPGDA33LG689881

2 Required ADAS Operations 1 Required Safety Operation

There are 2 ADAS and 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind-Spot Collision Avoidance Assist-Rear
Rear Camera
Rear Cross-Traffic Collision Avoidance-Assist

Optional ADAS Features

Rear Parking Sensors

ADAS

1. Blind Spot Radar

- **Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)**
- **Dynamic Calibration (BSD Unit Alignment)**

The Blind Spot Radar is responsible for Blind-Spot Collision Avoidance Assist-Rear and Rear Cross-Traffic Collision Avoidance-Assist on this vehicle.

The 2020 Kia Sorento repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 58 and 64)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60763/component/7821/itype/387/nonstandard/29130/selfRefLink/false>

2. Front Radar

- **Static Calibration (Smart Cruise Control (SCC) Radar Alignment)**

The 2020 Kia Sorento repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1 and 2)
- Grille is replaced (Line number 6 and 15)
- Front Reinforcement Bar is replaced (Line number 13)
- Wave Radar Sensor is installed (Line number 14)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60763/>

component/451/itype/376/nonstandard/28702/selfRefLink/
false

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Kia Sorento repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



March 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Honda CR-V EX
VIN: 2HKRW2H58HH113419

3 Required Safety Operations

There are 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Warning
Collision Mitigation Braking System
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Alert
Road Departure Mitigation

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2017 Honda CR-V repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57367/component/6978/itype/383/nonstandard/102798/selfRefLink/false>

2. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2017 Honda CR-V repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61TLA&lang=enu&sie=T001246_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61TLA&lang=enu&sie=G001210_enu

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2017 Honda CR-V repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



March 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Volvo XC60 Momentum
VIN: YV4102RK6J1035042

1 Required Safety Operation

There is 1 Safety that Volvo requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

City Safety
Pedestrian Impact Prevention
Rear Camera
Traffic Sign Recognition

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Blind Spot Warning
Front Mounted Camera
Head-Up Display
Lane Departure Prevention
Lane Departure Warning
Lexus Teammate
Rear Cross-Traffic Alert
Right-Side Camera
Surround-View Monitor

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2018 Volvo XC60 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Volvo/Pre_Post_Scanning.htm



March 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Honda Civic EX
VIN: 2HGFC2F74LH018049

2 Required ADAS Operations
1 Required Steering Operation
3 Required Safety Operations

There are 2 ADAS, 1 Steering, and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System
Rear Camera
Right-Side Camera

ADAS

1. Front Radar

• Static Calibration (Millimeter Wave Radar - Aim)

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2020 Honda Civic repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1)
- Front bumper (if damaged within 300mm of radar) is replaced (Line number 2)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 10, 25, and 34)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60819/component/4037/itype/387/nonstandard/13825/selfRefLink/true>

OEM procedure requirement:

https://my.alldata.com/CoRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

• Static Calibration (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System on this vehicle.

The 2020 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 10, 25, and 34)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60819/guid/nahn20civic_tba-R011162_enu_html

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Steering



3. Vehicle Stability Assist Sensor

- **Reset (VSA Sensor Neutral Position Memorization)**

The 2020 Honda Civic repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 75)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/60819/guid/nahn20civic_tba-R001644_enu_html



Safety

4. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2020 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60819/guid/nahn20civic_tba-R004834_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60819/component/3504/itype/383/nonstandard/13100/>

selfRefLink/false

5. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2020 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60819/guid/nah20civic_tba-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60819/component/611/itype/15/nonstandard/12085/selfRefLink/true>

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2020 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

March 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Ford F-150 XLT
VIN: 1FTNF1E58NKE87622

5 Required ADAS Operations
3 Required Safety Operations
1 Required Operational Operation

There are 5 ADAS, 3 Safety, and 1 Operational that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Blind Spot Warning
Forward and Reverse Sensing System
Lane Departure Prevention
Pedestrian Impact Prevention
Pro-Trailer Backup Assist
Rear Camera with Dynamic Hitch Assist
Rear Collision Mitigation
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Evasion Assist System
Ford Co-Pilot360 - Pre-Collision Assist with Automatic Emergency Braking
Front Cross-Traffic Alert
Front Mounted Camera
Lexus Teammate
Rear Parking Sensors

ADAS

1. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**

- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2022 Ford F-150 repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision
- Front bumper is installed (Line number 1, 2, 7, and 14)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2165784_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62254/component/7309/itype/401/nonstandard/10671/selfRefLink/false>

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Parking Sensors - Front

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**

The Parking Sensors - Front is responsible for Forward and Reverse Sensing System on this vehicle.

The 2022 Ford F-150 repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1, 2, 7, and 14)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2160984_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62254/component/7309/itype/401/nonstandard/10671/selfRefLink/false>

3. Pro Trailer Backup Assist Camera

- **Dynamic Calibration (Pro Trailer Backup Assist Camera Alignment)**

The Pro Trailer Backup Assist Camera is responsible for Pro-Trailer Backup Assist on this vehicle.

The 2022 Ford F-150 repair manual states that a operation is required for the Pro Trailer Backup Assist Camera when the following occurs:

- Tailgate is installed (Line number 50)

Please see the documentation from the manufacturer below.



OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2160994_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62254/component/1283/itype/392/nonstandard/10262/selfRefLink/false>

4. Surround-View Monitor Cameras

- **Dynamic Calibration (360-Degree View Camera Alignment)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2022 Ford F-150 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1, 2, 7, and 14)
- Grille is installed (Line number 8)
- Front Door is installed (Line number 34 and 42)
- Side Mirror is installed (Line number 38)
- Tailgate is installed (Line number 50)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2160994_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62254/component/1283/itype/392/nonstandard/10243/selfRefLink/false>

5. Windshield Camera(s)

- **Dynamic Calibration (IPMA Camera Alignment)**

The Windshield Camera(s) is responsible for Ford Co-Pilot360 - Pre-Collision Assist with Automatic Emergency Braking and Lane Departure Prevention on this vehicle.

The 2022 Ford F-150 repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Four Wheel Alignment is repaired (Line number 65)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62254/component/7848/itype/392/nonstandard/10977/selfRefLink/false>

Safety

6. Headlight Assembly - Programming Required if Attached Control Modules are also Replaced

- **Initialization (LED Lamp Driver Module Initialization)**

The 2022 Ford F-150 repair manual states that a operation is required for the Headlight Assembly - Programming Required if Attached Control Modules are also Replaced when the following occurs:

- Headlamp is replaced (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62254/component/896/itype/401/nonstandard/11822/selfRefLink/false>

7. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2022 Ford F-150 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2152543_html

8. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 Ford F-150 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

Operational

9. Power Window System

- **Initialization (Power Door Window Initialization)**

The 2022 Ford F-150 repair manual states that a operation is required for the Power Window System when the following occurs:

- Front Door is replaced (Line number 34)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62254/component/429/itype/387/nonstandard/10549/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62254/component/7114/itype/401/nonstandard/10683/selfRefLink/false>



March 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Nissan Rogue Platinum
VIN: JN8BT3DD4NW272929

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot System
- Adaptive Cruise Control with Stop and Go
- Forward Collision Mitigation
- Front and Rear Parking Sensors
- Front Mounted Camera
- Intelligent Emergency Braking with Pedestrian Detection
- Lane Departure Prevention
- Lexus Teammate
- Rear Camera
- Rear Collision Mitigation
- Right-Side Camera
- Surround-View Monitor
- Traffic Sign Recognition with Speed Limiter

Optional ADAS Features

Head-Up Display

ADAS

1. Front Radar

- **Static Calibration (ICC Sensor Alignment)**
- **Programming (Configuration (Front Radar Unit))**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go, Forward Collision Mitigation, and Intelligent Emergency Braking with Pedestrian Detection on this vehicle.

The 2022 Nissan Rogue repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is replaced (Line number 3)
- Grille is replaced (Line number 12 and 34)
- Wave Radar Sensor is installed (Line number 32)
- Wave Radar Sensor is replaced (Line number 32)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.nissan-techinfo.com/refgh0v/sm/2021/Rogue/SM21E00T33U2/pages/ph_indexSiePage.html?manualId=SM21E00T33U2&sieNumber=SIEMD-5954201&typeFlag=list&manualType=R&level1TypeChange=false&isStart=false

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Radar_Recalibration_Post_Repair.htm

OEM procedure requirement:

https://www.nissan-techinfo.com/refgh0v/sm/2021/Rogue/SM21E00T33U2/pages/ph_indexSiePage.html?manualId=SM21E00T33U2&sieNumber=RPR-001502449&typeFlag=list&manualType=R&isStart=true&searchText=distance sensor&symptomSelectedIndex=0&symptomSelectedValue=&dtc1=&dtc2=

OEM procedure requirement and instructions:

<https://www.nissan-techinfo.com/refgh0v/sm/2021/Rogue/SM21E00T33U1/com.renault.intran.SIE502/31585143108.html?print=1>

2. Surround-View Monitor Cameras

- **Static Calibration (Calibrating Camera Image)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2022 Nissan Rogue repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 3)
- Grille is installed (Line number 12, 34, and 72)
- Front View Camera is installed (Line number 54)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.nissan-techinfo.com/refgh0v/sm/2021/Rogue/SM21E00T33U1/com.renault.intran.SIE502/32343435381.html?print=1>

Safety

3. Seatbelt System

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**
- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**
- **Inspection (Seatbelt Inspection)**

The 2022 Nissan Rogue repair manual states that a

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operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62699/component/728/itype/383/nonstandard/11290/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 Nissan Rogue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm

March 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Acura TLX V6 Tech
VIN: 19UUB3F5XFA801006

1 Required ADAS Operation
2 Required Steering Operations
2 Required Safety Operations

There are 1 ADAS, 2 Steering, and 2 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Warning
Lane Departure Warning
Rear Camera
Rear Collision Warning

Optional ADAS Features

Rear Parking Sensors

ADAS

1. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Lane Departure Warning on this vehicle.

The 2015 Acura TLX repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 2)
- Door (if intrusion beam is damaged) is replaced (Line number 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54472/component/1283/itype/387/nonstandard/103507/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/CoRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Steering

2. Steering Angle Sensor

- **Reset (Steering Angle Sensor Neutral Position Clear)**

The 2015 Acura TLX repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 38)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/54472/guid/na-au15TLX_TZ3-R005446_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54472/component/3399/itype/376/nonstandard/102613/selfRefLink/false>

3. Vehicle Stability Assist Sensor

- **Reset (VSA Sensor Neutral Position Memorization)**

The 2015 Acura TLX repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 38)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/54472/guid/na-au15TLX_TZ3-R000928_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54472/component/3399/itype/376/nonstandard/102613/selfRefLink/false>

Safety

4. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)**

The 2015 Acura TLX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54472/component/6978/itype/383/nonstandard/103284/selfRefLink/false>

5. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2015 Acura TLX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

March 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Chrysler 200 C
VIN: 1C3CCCCB5FN722065

1 Required Safety Operation

There is 1 Safety that Chrysler requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2015 Chrysler 200 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

March 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Acura TLX V6 Tech
VIN: 19UUB3F5XFA801006

1 Required ADAS Operation
2 Required Steering Operations
2 Required Safety Operations

There are 1 ADAS, 2 Steering, and 2 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Warning
Lane Departure Warning
Rear Camera
Rear Collision Warning

Optional ADAS Features

Rear Parking Sensors

ADAS

1. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Lane Departure Warning on this vehicle.

The 2015 Acura TLX repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 2)
- Door (if intrusion beam is damaged) is replaced (Line number 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54472/component/1283/itype/387/nonstandard/103507/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/CoRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Steering

2. Steering Angle Sensor

- **Reset (Steering Angle Sensor Neutral Position Clear)**

The 2015 Acura TLX repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 38)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/54472/guid/na-au15TLX_TZ3-R005446_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54472/component/3399/itype/376/nonstandard/102613/selfRefLink/false>

3. Vehicle Stability Assist Sensor

- **Reset (VSA Sensor Neutral Position Memorization)**

The 2015 Acura TLX repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 38)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/54472/guid/na-au15TLX_TZ3-R000928_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54472/component/3399/itype/376/nonstandard/102613/selfRefLink/false>

Safety

4. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)**

The 2015 Acura TLX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54472/component/6978/itype/383/nonstandard/103284/selfRefLink/false>

5. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2015 Acura TLX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

March 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 GMC Sierra 1500 SLT
VIN: 3GTU9DEL4MG254636

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that GMC requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Hitch Guidance - Trailer Backup Assist
Rear Camera
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Adaptive Cruise Control
Following Distance Indicator
Forward Collision Alert with Automatic Braking
Front and Rear Parking Sensors
Front Mounted Camera
Front Pedestrian Braking
Head-Up Display
Lane Change Alert with Side Blind Zone Alert
Lane Keep Assist with Lane Departure Warning
Lexus Teammate
Pickup Box Camera
Rear Cross-Traffic Alert

ADAS

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1. Surround-View Monitor Cameras

- **Dynamic Calibration (Video Processing Control Module Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2021 GMC Sierra 1500 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62376/component/871/itype/387/nonstandard/11850/selfRefLink/false>

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/gm-driver-assistance-systems-aid.pdf>

Safety



2. Repairs and Inspections Required After a Collision

- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2021 GMC Sierra 1500 repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 GMC Sierra 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

March 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Chevrolet Impala LT
VIN: 2G1115SL9E9115997

2 Required Safety Operations

There are 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Blind Spot Warning
Forward Collision Alert
Lane Departure Warning
Rear Camera
Rear Cross-Traffic Alert
Rear Parking Sensors

Safety



1. Repairs and Inspections Required After a Collision

- **Inspection (Post Collision Safety Inspection)**
- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2014 Chevrolet Impala repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2014 Chevrolet Impala repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

March 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Toyota Corolla (Trim Not Selected)
VIN: 2T1BURHE6FC268566

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Rear Camera

Steering

1. Yaw Rate and Acceleration Sensor

- Reset (Yaw Rate and Acceleration Sensor Zero Point Calibration)

The 2015 Toyota Corolla repair manual states that a operation is required for the Yaw Rate and Acceleration Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 31)

Please see the documentation from the manufacturer below.

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OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/54399/guid/natty2014-2019corol-RM1000000009JFF_html

Safety

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2015 Toyota Corolla repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54399/component/1285/itype/383/nonstandard/212052/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54399/component/465/itype/383/nonstandard/212057/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2015 Toyota Corolla repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/CoRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm



March 7, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Ford Mustang V6
VIN: 1FA6P8AM5H5334907

2 Required Safety Operations

There are 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seatbelt System

• Operation Check (Road Test Inspection)

The 2017 Ford Mustang repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56801/component/1285/itype/377/nonstandard/11321/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Ford Mustang repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



March 7, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Honda Civic LX
VIN: 2HGFC4A51HH400547

3 Required Safety Operations

There are 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2017 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57011/component/6978/itype/383/nonstandard/103231/selfRefLink/false>



2. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2017 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57011/guid/nahn17CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57011/component/611/itype/15/nonstandard/102293/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2017 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

March 7, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Nissan Pathfinder (Trim Not Selected)
VIN: 5N1DR2MM7HC639921

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Blind Spot Warning
Following Distance Alert
Forward Collision Warning
Forward Emergency Braking
Front Mounted Camera
Intelligent Cruise Control
Rear Collision Warning
Rear Parking Sensors

ADAS

1. Surround-View Monitor Cameras

- **Static Calibration (Calibrating Camera Image)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2017 Nissan Pathfinder repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1 and 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56862/component/1283/itype/387/nonstandard/19742/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56861/component/7309/itype/401/nonstandard/16853/selfRefLink/false>

Safety

2. Seatbelt System

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**

- **Inspection (Seatbelt Inspection)**

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

The 2017 Nissan Pathfinder repair manual states that a operation is required for the Seatbelt System when the



following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56862/component/1285/itype/383/nonstandard/14457/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Nissan Pathfinder repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm

March 7, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Jeep Grand Cherokee High Altitude
VIN: 1C4RJFCT7MC883516

1 Required Safety Operation

There is 1 Safety that Jeep requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Blind Spot Warning
Forward Collision Mitigation
Lane Departure Prevention
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2021 Jeep Grand Cherokee repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-
document.pdf](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf)



March 7, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Chrysler Pacifica Touring-L Plus
VIN: 2C4RC1EG9JR177650

1 Required Safety Operation

There is 1 Safety that Chrysler requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Detection
ParkSense - Rear Parking Sensors
Rear Camera
Rear Cross-Path Detection

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2018 Chrysler Pacifica repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-
document.pdf](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf)



March 7, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Mitsubishi RVR (Trim Not Selected)
VIN: JA4AJ4AWXJZ604691

1 Required Safety Operation

There is 1 Safety that Mitsubishi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Forward Collision Mitigation
Lane Departure Warning

Safety

1. Vehicle Electronics

- **Pre-Scan Required (Post Collision Diagnosis and Inspection)**

The 2018 Mitsubishi RVR repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58045/component/6978/itype/376/nonstandard/12384/selfRefLink/true>



March 7, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Volkswagen Golf 4-Door w/DCC &
Navigation (DSG)
VIN: WVWVF7AU7HW184425

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Blind Spot Warning
- Front and Rear Parking Sensors
- Front Assist with Automatic Emergency Braking
- Lane Assist
- Rear Camera
- Rear Cross-Traffic Alert

ADAS

1. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Adaptive Cruise Control and Front Assist with Automatic Emergency Braking on this vehicle.

The 2017 Volkswagen Golf repair manual states that a operation is required for the Front Radar when the following occurs:

- Grille is installed (Line number 4)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59063/component/1246/itype/5/nonstandard/1103922/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59063/component/775/itype/401/nonstandard/1103241/selfRefLink/false>

Safety



2. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2017 Volkswagen Golf repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57435/guid/naw2016-2017Golf_AU1-en-US-V-K0059241221_americas-X-HX0V7WWMNGB_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57435/component/1285/itype/383/nonstandard/10571/selfRefLink/true>

3. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2017 Volkswagen Golf repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59063/component/6978/itype/376/nonstandard/1103720/selfRefLink/false>

March 7, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Honda CR-V Touring
VIN: 2HKRW2H95NH200077

4 Required ADAS Operations 3 Required Safety Operations

There are 4 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Warning
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Front and Rear Parking Sensors
Lane Keeping Assist System with Road Departure Mitigation
Rear Camera
Rear Collision Warning

ADAS

1. Blind Spot Radar

- **Check Installation Angle (BSI Radar Unit Mounting Area Check)**
- **Static Calibration (BSI Radar Unit Aiming Inspection)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.

The 2022 Honda CR-V repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Structural Body (Rear) is repaired (Line number 25)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/service_info.html?package=61TLA&lang=enu&sie=R003052_enu

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Front Radar

- **Static Calibration (Millimeter Wave Radar Aiming)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2022 Honda CR-V repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 25)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61TLA&lang=enu&sie=R004848_enu

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

3. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors on this vehicle.

The 2022 Honda CR-V repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 32, 35, and 40)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61TLA&lang=enu&sie=R005492_enu

4. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System with Road Departure Mitigation on this vehicle.

The 2022 Honda CR-V repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 25)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61TLA&lang=enu&sie=R002981_enu

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

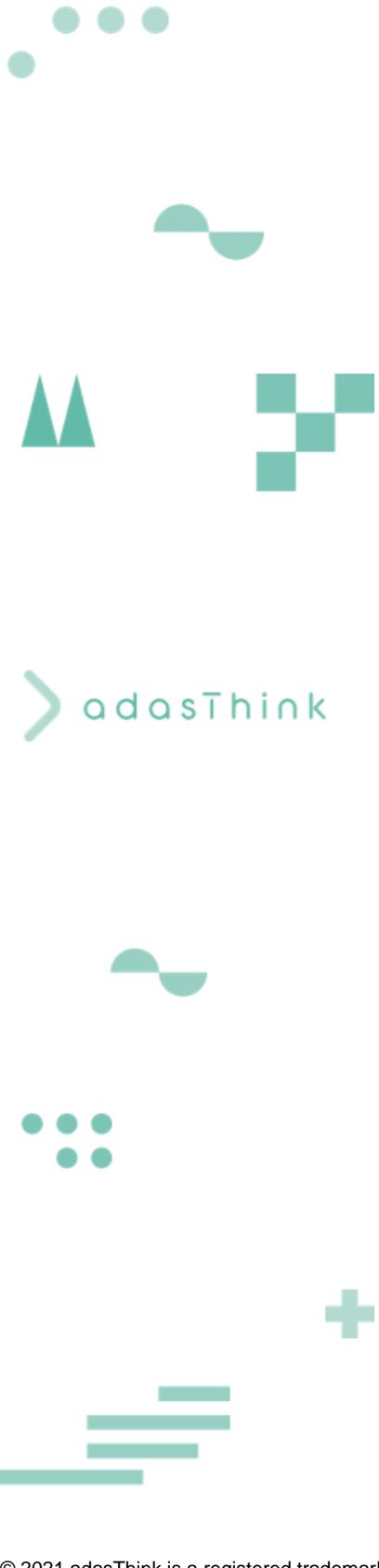
Safety

5. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2022 Honda CR-V repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/RJANISIS/Content/rjxa_isisviewer_sa.aspx?m=TLAD&k=pubs/sm/1/2/Contents/enu/61TLAD/RIN/SCT/SC/SYS/R001216_enu/web/html/R001216_enu&p=SM&t=H&model=CR-V&year=2022&dbkey=61TLAD_R001216_enu&country=1&lang=0

6. SRS Unit

- OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)

The 2022 Honda CR-V repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61TLA&lang=enu&sie=T001247_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61TLA&lang=enu&sie=G001210_enu

7. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)

The 2022 Honda CR-V repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



March 7, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Honda HR-V Sport
VIN: 3CZRU6H25LM100840

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System
Rear Camera
Right-Side Camera

ADAS

1. Front Radar

- **Vertically Align Sensor (Vertical Radar Aim)**
- **Static Calibration (Horizontal Radar Aim)**

The Front Radar is responsible for Adaptive Cruise Control, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2020 Honda HR-V repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61236/component/871/itype/387/nonstandard/11857/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System on this vehicle.

The 2020 Honda HR-V repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/RJANISIS/pubs/sm/1/2/Contents/enu/61T7AD/RIN/SCT/SC/SYS/R005170_enu/web/html/R005170_enu.html?m=T7AD&k=pubs/sm/1/2/Contents/enu/61T7AD/RIN/SCT/SC/SYS/R005170_enu/web/html/R005170_enu&p=SM&t=H&model=HR-V&year=2020&dbkey=61T7AD_R005170_enu&country=1&lang=0

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Operation Check)**

The 2020 Honda HR-V repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/RJANISIS/pubs/sm/1/2/Contents/enu/61T7AD/RIN/SCT/SC/SYS/R005420_enu/web/html/R005420_enu.html?m=T7AD&k=pubs/sm/1/2/Contents/enu/61T7AD/RIN/SCT/SC/SYS/R005420_enu/web/html/R005420_enu&p=SM&t=H&model=HR-V&year=2020&dbkey=61T7AD_R005420_enu&country=1&lang=0

4. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2020 Honda HR-V repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61T7A&lang=enu&sie=T004977_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61T7A&lang=enu&sie=G005666_enu

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2020 Honda HR-V repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

March 7, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Toyota 4Runner (Trim Not Selected)
VIN: JTEBU5JR9H5469217

3 Required Safety Operations

There are 3 Safety operations that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Front and Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2017 Toyota 4Runner repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:



<https://my.alldata.com/repair/#/repair/article/57361/component/1236/itype/387/nonstandard/113400/selfRefLink/false>



OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57361/component/611/itype/15/nonstandard/113193/selfRefLink/false>

2. Seatbelt System

- **Dynamic Function Test (Running Test)**



The 2017 Toyota 4Runner repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57361/component/465/itype/15/nonstandard/113613/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**



The 2017 Toyota 4Runner repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?

slInfo=0x3c79b#t=Position_Statements%2FToyota
%2C_Lexus%2C_Scion
%2FCRIB___191_Scanning_for_Electrical_Faults.htm



March 7, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Hyundai Elantra Sport Appearance
VIN: KMHDH4AE9FU336061

2 Required Safety Operations

There are 2 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Seat Weight Sensor

- **Reset (Occupant Detection Reset)**

The 2015 Hyundai Elantra repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54852/component/3504/itype/401/nonstandard/10385/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2015 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



March 6, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Hyundai Elantra Essential
VIN: KMHLM4AG3MU117294

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

ADAS

1. Front Radar

- **Static or Dynamic Calibration (Inspection/Correction of the Front-Radar Mounting Angle)**
- **Check Installation Angle (Vertical Calibration)**
- **Programming (Variant Coding)**

The 2021 Hyundai Elantra repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 2 and 3)
- Wave Radar Sensor is replaced (Line number 5)

- Wave Radar Sensor is installed (Line number 5)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62407/component/7821/itype/376/nonstandard/20969/selfRefLink/true>

Safety

2. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2021 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

March 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Toyota Camry (Trim Not Selected)
VIN: 4T1B21HK4NU016521

2 Required Safety Operations

There are 2 Safety operations that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Monitor
Front Cross-Traffic Alert
Full-Speed Range Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Lane Tracing Assist
Lexus Teammate
Pedestrian Impact Prevention
Rear Camera
Road Sign Assist

Optional ADAS Features

Front and Rear Parking Sensors
Front Mounted Camera
Head-Up Display
Rear Collision Mitigation
Rear Cross-Traffic Alert
Right-Side Camera
Surround-View Monitor

Safety

1. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2022 Toyota Camry repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/63017/component/465/itype/383/nonstandard/111812/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/63017/component/465/itype/383/nonstandard/111813/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 Toyota Camry repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

March 2, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Toyota RAV4 Limited
VIN: 2T3DFREV2FW392783

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning

Optional ADAS Features

Lane Departure Warning

ADAS

1. Blind Spot Radar

- **Check Installation Angle (Blind Spot Monitor Sensor Installation Condition Inspection)**
- **Inspection (Visually Inspect Installation Area for Damage)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.

The 2015 Toyota RAV4 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 57)
- Rear bumper is replaced (Line number 58)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/54577/guid/naty2013-2018rav4-RM100000004IM2_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54577/component/1283/itype/15/nonstandard/210791/selfRefLink/false>

Safety

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2015 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53001/component/465/itype/15/nonstandard/211226/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2015 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm

March 2, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Chevrolet Silverado 1500 RST
VIN: 1GCUYEE6LZ352616

2 Required Safety Operations

There are 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Front and Rear Parking Sensors
Hitch Guidance - Trailer Backup Assist
Lane Change Alert with Side Blind Zone Alert
Pickup Box Camera
Rear Camera
Rear Collision Warning

Safety

1. Repairs and Inspections Required After a Collision

- Operation Check (Emergency Locking Retractor Dynamic Function Test)
- Inspection (Post Collision Safety Inspection)

The 2020 Chevrolet Silverado 1500 repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2020 Chevrolet Silverado 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

March 2, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Toyota Camry SE
VIN: 4T1G11AK4LU969410

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Monitor
Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Alert
Toyota Safety Sense P

ADAS

1. Blind Spot Radar

- **Inspection (Visually Inspect Installation Area for Damage)**
- **Check Installation Angle (Blind Spot Monitor Sensor Installation Condition Inspection)**

The Blind Spot Radar is responsible for Blind Spot Monitor and Rear Cross-Traffic Alert on this vehicle.

The 2020 Toyota Camry repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 10)
- Rear bumper is replaced (Line number 11)

Please see the documentation from the manufacturer below.

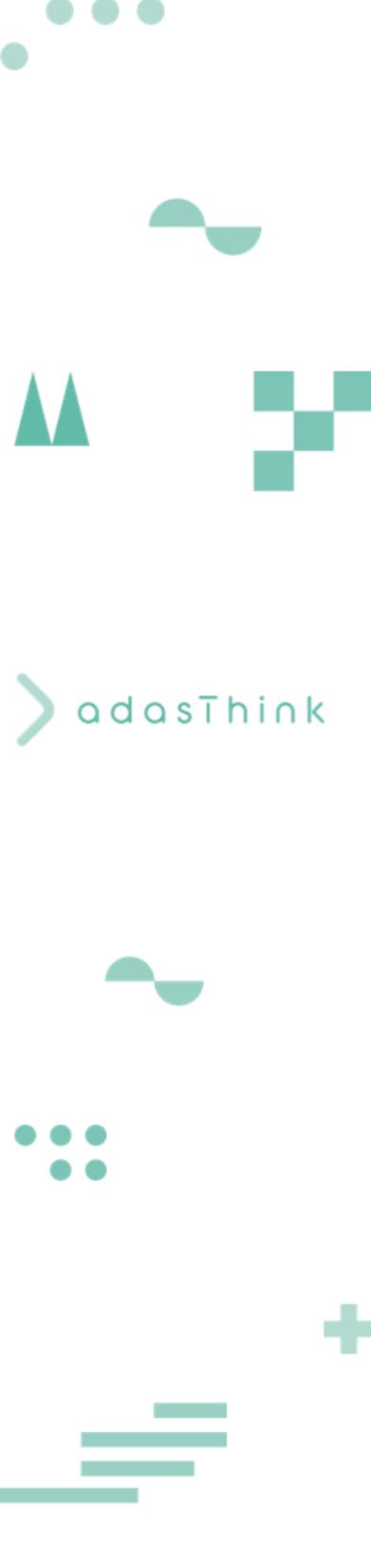
OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60850/guid/naty2018-2023camry-RM1000000015L6O_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60850/component/7302/itype/401/nonstandard/415757/selfRefLink/false>

Safety



2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2020 Toyota Camry repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60850/component/465/itype/383/nonstandard/411838/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60850/component/465/itype/15/nonstandard/411839/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Toyota Camry repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

March 2, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Nissan Pathfinder (Trim Not Selected)
VIN: 5N1DR2MM5HC607386

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Following Distance Alert
Forward Collision Warning
Forward Emergency Braking
Front Mounted Camera
Intelligent Cruise Control
Rear Parking Sensors

ADAS

1. Blind Spot Radar

• Test Drive (Blind Spot Action Test)

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.

The 2017 Nissan Pathfinder repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 33)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56862/component/1283/itype/377/nonstandard/20443/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56862/component/872/itype/401/nonstandard/20525/selfRefLink/false>

2. Surround-View Monitor Cameras

• Static Calibration (Calibrating Camera Image)

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2017 Nissan Pathfinder repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Side Mirror is installed (Line number 8)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56862/component/1283/itype/387/nonstandard/19742/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/56862/guid/nan17pathf-0000000014611324_html

Safety

3. Seatbelt System

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**
- **Inspection (Seatbelt Inspection)**
- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

The 2017 Nissan Pathfinder repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56862/component/1285/itype/383/nonstandard/14457/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Nissan Pathfinder repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm



March 2, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Cadillac XT5 Luxury FWD
VIN: 1GYKNBRS7HZ269642

2 Required Safety Operations

There are 2 Safety that Cadillac requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Front and Rear Parking Sensors
Rear Camera
Rear Cross-Traffic Alert

Optional ADAS Features

Following Distance Alert
Forward Collision Mitigation
Forward Collision Warning
Lane Keep Assist
Pedestrian Detection Warning

Safety

1. Repairs and Inspections Required After a Collision

- **Inspection (Post Collision Safety Inspection)**
- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2017 Cadillac XT5 repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Cadillac XT5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

March 2, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Honda Pilot EX-L
VIN: 5FNYF6H72HB501099

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Right-Side Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2017 Honda Pilot repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57311/component/6978/itype/383/nonstandard/103377/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2017 Honda Pilot repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

March 2, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Mazda Mazda3 Preferred
VIN: JM1BPBLL2N1511121

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Stop and Go
- Blind Spot Warning
- Forward Collision Mitigation
- Lane Departure Prevention
- Pedestrian Impact Prevention
- Rear Camera
- Rear Cross-Traffic Alert

ADAS



1. Front Radar

- **Dynamic Calibration (Front Radar Sensor Aiming)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2022 Mazda Mazda3 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 2 and 6)
- Front bumper is repaired (Line number 2 and 3)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62018/guid/natk21mazd3-SM2566530_html

Safety

2. Seat Weight Sensor

- **Occupant Sensor Calibration (DTC Inspection & Calibration)**

The 2022 Mazda Mazda3 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62018/component/3504/itype/383/nonstandard/11886/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2022 Mazda Mazda3 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Mazda/Pre_and_Post-Repair_Scanning.htm



March 1, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Volkswagen Tiguan SEL Premium
VIN: 3VV4B7AXXJM075269

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Stop and Go
- Blind Spot Warning
- Front and Rear Parking Sensors
- Front Assist with Automatic Emergency Braking
- Front Mounted Camera
- Lane Assist
- Pedestrian Monitoring
- Rear Camera
- Rear Collision Mitigation
- Right-Side Camera
- Surround-View Monitor

ADAS

1. Blind Spot Radar

- **Static Calibration (Lane Change Assistance Control Module, Calibrating)**

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2018 Volkswagen Tiguan repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is installed (Line number 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57929/component/871/itype/387/nonstandard/310469/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57929/component/871/itype/387/nonstandard/310468/selfRefLink/false>

Safety



2. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

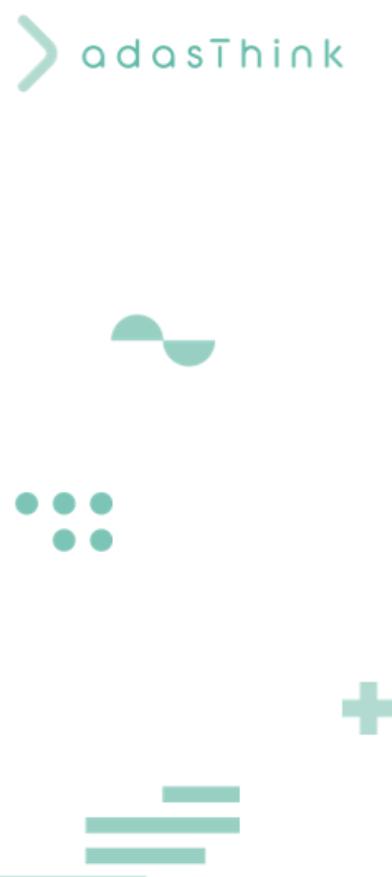
The 2018 Volkswagen Tiguan repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57929/component/1285/itype/383/nonstandard/311419/selfRefLink/false>



3. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2018 Volkswagen Tiguan repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57929/component/6978/itype/376/nonstandard/310786/selfRefLink/false>

March 1, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Honda Fit Sport
VIN: LUCGE8H55D3001417

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2013 Honda Fit repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52603/component/3504/itype/383/nonstandard/1534772/selfRefLink/false>

2. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)

The 2013 Honda Fit repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



March 1, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Toyota RAV4 Hybrid LE
VIN: 2T3BWRFV7LW100594

2 Required ADAS Operations
1 Required Steering Operation
3 Required Safety Operations

There are 2 ADAS, 1 Steering, and 3 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Pre-Collision System with Pedestrian Detection
Rear Camera
Rear Cross-Traffic Alert
Toyota Safety Sense (TSS) 2.0

ADAS

1. Blind Spot Radar

- **Check Installation Angle (Blind Spot Monitor Sensor Installation Condition Inspection)**
- **Inspection (Visually Inspect Installation Area for Damage)**
- **Static Calibration (Blind Spot Monitor Sensor - Adjustment)**

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2020 Toyota RAV4 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 58)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/7821/itype/5/nonstandard/110730/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/7821/itype/401/nonstandard/120213/selfRefLink/false>



2. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Dynamic Radar Cruise Control, Pre-Collision System with Pedestrian Detection, and Toyota Safety Sense (TSS) 2.0 on this vehicle.

The 2020 Toyota RAV4 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61251/guid/natty2019-2022rav4-RM10000001HJTF_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/7309/itype/401/nonstandard/120186/selfRefLink/false>

Steering

3. Yaw Rate and Acceleration Sensor

- **Reset (Yaw Rate and Acceleration Sensor Zero Point Calibration)**

The 2020 Toyota RAV4 repair manual states that a operation is required for the Yaw Rate and Acceleration Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 87)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/61251/guid/naty2019-2022rav4-RM100000001HG83_html

Safety

4. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2020 Toyota RAV4 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/1236/itype/387/nonstandard/117923/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/611/itype/15/nonstandard/120929/selfRefLink/false>

5. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2020 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/465/itype/383/nonstandard/114941/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/465/itype/15/nonstandard/114942/selfRefLink/false>

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

March 1, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2023 Kia Seltos SX
VIN: KNDETCA23P7397560

- 1 Required ADAS Operation**
- 1 Required Steering Operation**
- 1 Required Safety Operation**

There are 1 ADAS, 1 Steering, and 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind-Spot Collision Avoidance Assist-Rear
Forward Collision-Avoidance Assist
Lane Departure Prevention
Pedestrian Detection
Rear Camera
Rear Collision Mitigation
Smart Cruise Control with Stop & Go
Traffic Sign Recognition with Speed Limiter

ADAS

1. Front Radar

- **Check Installation Angle (Vertical Calibration)**
- **Static or Dynamic Calibration (Inspection/Correction of the Front-Radar Mounting Angle)**

The Front Radar is responsible for Smart Cruise Control with Stop & Go on this vehicle.

The 2023 Kia Seltos repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 2 and 3)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://www.kiatechinfo.com/viewer/default_pop.aspx?content_no=SHOP|ENG|8137|2022|25211|all|0|4_4_3_4|801&sitinfolist=94^9404^94040100^none^801^4^ENG^KM^SP213^2022^all^0^none^none^none^SHOP^^\\$94^9404^4040100^none^801^1^ENG^KM^SP213^2022^all^0^none^none^SHOP^^\\$94^9404^94040100^none^801^8^ENG^KM^SP213^2022^all^0^none^none^none^SHOP^^\\$94^9404^94040100^none^801^5^ENG^KM^SP213^2022^all^0^none^none^none^SHOP^^\\$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20\(ADAS\)&cat1=2022%20%3E%20G%201.6%20T-GDI%20GAMMA&search_text=radar#focus](https://www.kiatechinfo.com/viewer/default_pop.aspx?content_no=SHOP|ENG|8137|2022|25211|all|0|4_4_3_4|801&sitinfolist=94^9404^94040100^none^801^4^ENG^KM^SP213^2022^all^0^none^none^none^SHOP^^$94^9404^4040100^none^801^1^ENG^KM^SP213^2022^all^0^none^none^SHOP^^$94^9404^94040100^none^801^8^ENG^KM^SP213^2022^all^0^none^none^none^SHOP^^$94^9404^94040100^none^801^5^ENG^KM^SP213^2022^all^0^none^none^none^SHOP^^$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20(ADAS)&cat1=2022%20%3E%20G%201.6%20T-GDI%20GAMMA&search_text=radar#focus)

Steering

2. TPMS

- **Programming (Tire Pressure Sensor Registration)**

The 2023 Kia Seltos repair manual states that a operation is required for the TPMS when the following occurs:

- TPMS Sensor is replaced (Line number 28)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://www.kiatechinfo.com/viewer/print_pop.aspx?sitinfolst=21^2125^21250100^none^801^1^ENG^KM^SP213^2022^ss^1^none^none^none^SHOP^\\$21^2125^21250100^none^801^8^ENG^KM^SP213^2022^ss^1^none^none^none^SHOP^\\$21^2125^21250100^none^801^5^ENG^KM^SP213^2022^ss^1^none^none^none^SHOP^\\$&firstnodedesc=Suspension%20System&cat1=2023%20%3E%20G%202.0%20MPI%20NU&content_no=SHOP|ENG|8137|2023|25212|ss|1|2\\$16_7_4_2|801&cntssn=58638&printtype=content_print&imgnum=1](https://www.kiatechinfo.com/viewer/print_pop.aspx?sitinfolst=21^2125^21250100^none^801^1^ENG^KM^SP213^2022^ss^1^none^none^none^SHOP^$21^2125^21250100^none^801^8^ENG^KM^SP213^2022^ss^1^none^none^none^SHOP^$21^2125^21250100^none^801^5^ENG^KM^SP213^2022^ss^1^none^none^none^SHOP^$&firstnodedesc=Suspension%20System&cat1=2023%20%3E%20G%202.0%20MPI%20NU&content_no=SHOP|ENG|8137|2023|25212|ss|1|2$16_7_4_2|801&cntssn=58638&printtype=content_print&imgnum=1)

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2023 Kia Seltos repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



March 1, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Hyundai Santa Fe Luxury
VIN: 5XYZUDLB7FG260253

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Parking Sensors

Safety

1. Vehicle Electronics

• Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2015 Hyundai Santa Fe repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position->

statements/31340.pdf



March 1, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Honda Fit SE
VIN: 3HGGK5H67HM100699

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2017 Honda Fit repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57002/component/6978/itype/383/nonstandard/101698/selfRefLink/false>

2. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)

The 2017 Honda Fit repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



March 1, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Hyundai Santa Fe Preferred
VIN: 5NMS3CAD6KH039598

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot System
- Adaptive Cruise Control
- Forward Collision Avoidance Assist with Pedestrian Detection
- Forward Collision-Avoidance Assist
- Lane Keep Assist
- Rear Camera
- Rear Collision Mitigation
- Rear Parking Sensors

ADAS

1. Blind Spot Radar

- **Dynamic Calibration (BSD Unit Alignment)**
- **Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)**

The Blind Spot Radar is responsible for Active Blind Spot System on this vehicle.

The 2019 Hyundai Santa Fe repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 25)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59650/component/7821/itype/376/nonstandard/20558/selfRefLink/false>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2019 Hyundai Santa Fe repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

March 1, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Chevrolet Equinox LT
VIN: 2GNAXSEV1J6189872

2 Required Safety Operations

There are 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Lane Change Alert with Side Blind Zone Alert
Rear Cross-Traffic Alert
Rear Parking Sensors

Safety

1. Repairs and Inspections Required After a Collision

- **Inspection (Post Collision Safety Inspection)**
- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2018 Chevrolet Equinox repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Chevrolet Equinox repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

March 1, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Subaru Outback Limited
VIN: 4S4BSDNC4J3264539

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Detection
EyeSight - Adaptive Cruise Control
EyeSight - Lane Keep Assist
EyeSight - Pre-Collision Braking
Rear Camera
Reverse Automatic Braking

ADAS

1. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Camera adjustment and function check)

The Windshield Camera(s) is responsible for EyeSight - Adaptive Cruise Control, EyeSight - Lane Keep Assist, and EyeSight - Pre-Collision Braking on this vehicle.

The 2018 Subaru Outback repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57938/guid/nasb18legacy-s936a40e45_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57938/component/1283/itype/15/nonstandard/11340/selfRefLink/false>

Safety



2. Occupant Sensor

- OEM Pre-Scan (Read Airbag module, check for DTC B1650 or B1655)

The 2018 Subaru Outback repair manual states that a operation is required for the Occupant Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57938/component/6978/itype/376/nonstandard/14566/selfRefLink/false>

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2018 Subaru Outback repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre-_and_Post-_Scanning_of_Collision_Vehicles.htm

4. Vehicle Electronics

- **Inspection (Safety System Inspection After a Collision)**

The 2018 Subaru Outback repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57938/component/6978/itype/376/nonstandard/14566/selfRefLink/false>



February 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Mitsubishi Lancer ES
VIN: JA32V2FW8HU601323

1 Required Safety Operation

There is 1 Safety that Mitsubishi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Vehicle Electronics

- **Pre-Scan Required (Post Collision Diagnosis and Inspection)**

The 2017 Mitsubishi Lancer repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57068/component/6978/itype/376/nonstandard/12431/selfRefLink/true>



February 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Kia Soul +
VIN: KNDJP3A51J7620537

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert

Optional ADAS Features

Autonomous Emergency Braking
Forward Collision Warning
Lane Departure Warning
Smart Cruise Control

ADAS

1. Blind Spot Radar

- **Dynamic Calibration (BSD Unit Alignment)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Cross-Traffic Alert on this vehicle.

The 2018 Kia Soul repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 17, 20, and 24)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58293/component/1283/itype/392/nonstandard/28080/selfRefLink/false>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Kia Soul repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm

February 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Hyundai Elantra Preferred
VIN: KMHLM4AJ6NU022645

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind-Spot Collision-Avoidance Assist
Forward Collision Avoidance Assist with Pedestrian Detection
Lane Keeping Assist
Rear Camera
Rear Cross-Traffic Collision-Avoidance Assist

ADAS

1. Blind Spot Radar

- **Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)**
- **Dynamic Calibration (BSD Unit Alignment)**

The Blind Spot Radar is responsible for Blind-Spot Collision-Avoidance Assist and Rear Cross-Traffic Collision-Avoidance Assist on this vehicle.

The 2022 Hyundai Elantra repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 5 and 6)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1\\$3_5_4_3&sitinfolist=94^9402^94020100^none^801^1^ENG^HY^CN713^2021^all^0^none^none^none^SHOP^\\$94^9402^94020100^none^801^8^ENG^HY^CN713^2021^all^0^none^none^none^SHOP^^\\$94^9402^94020100^none^801^4^ENG^HY^CN713^2021^all^0^none^none^none^non e^SHOP^^\\$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20\(ADAS\)&cat1=2022%20%3E%20G%201.6%20T-GDI%20GAMMA%20II&content_no=SHOP|ENG|9275|2022|27723|all|0|1\\$3_5_4_3|801&cntssn=64029&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1$3_5_4_3&sitinfolist=94^9402^94020100^none^801^1^ENG^HY^CN713^2021^all^0^none^none^none^SHOP^$94^9402^94020100^none^801^8^ENG^HY^CN713^2021^all^0^none^none^none^SHOP^^$94^9402^94020100^none^801^4^ENG^HY^CN713^2021^all^0^none^none^none^non e^SHOP^^$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20(ADAS)&cat1=2022%20%3E%20G%201.6%20T-GDI%20GAMMA%20II&content_no=SHOP|ENG|9275|2022|27723|all|0|1$3_5_4_3|801&cntssn=64029&printtype=content_print&imgnum=1)

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2022 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



February 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Toyota Camry SE
VIN: 4T1G11AK5LU966192

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Monitor
Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Alert
Toyota Safety Sense P

ADAS

1. Blind Spot Radar

- **Inspection (Visually Inspect Installation Area for Damage)**
- **Check Installation Angle (Blind Spot Monitor Sensor Installation Condition Inspection)**
- **Static Calibration (Blind Spot Monitor Sensor - Adjustment)**

The Blind Spot Radar is responsible for Blind Spot Monitor and Rear Cross-Traffic Alert on this vehicle.

The 2020 Toyota Camry repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 23)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60850/guid/natty2018-2023camry-RM1000000015L6O_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60850/component/7821/itype/401/nonstandard/411817/selfRefLink/false>

Safety



2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2020 Toyota Camry repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60850/component/465/itype/383/nonstandard/411838/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60850/component/465/itype/15/nonstandard/411839/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Toyota Camry repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

February 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Ford Edge Titanium
VIN: 2FMPK3K99GBB63482

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Rear Camera

Optional ADAS Features

Automated Parking Assistance
BLIS - Blind Spot Warning
Forward Collision Warning
Front Mounted Camera
Lane Departure Prevention
Rear Cross-Traffic Alert
Rear Parking Sensors

ADAS

1. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2016 Ford Edge repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/55961/guid/nafm16edge-g1724505_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2016 Ford Edge repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55961/component/1285/itype/377/nonstandard/11290/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2016 Ford Edge repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

February 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Lexus RX (Trim Not Selected)
VIN: 2T2BK1BAXDC199435

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Lexus requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning

Optional ADAS Features

Adaptive Cruise Control
Forward Collision Warning
Front and Rear Parking Sensors
Head-Up Display
Rear Camera

ADAS

1. Blind Spot Radar

- **Check Installation Angle (Blind Spot Monitor Sensor Installation Condition Inspection)**
- **Inspection (Visually Inspect Installation Area for Damage)**

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2013 Lexus RX repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 2)
- Rear bumper is replaced (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/52107/guid/na-lx13rx350-RM000004RXS00CX_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/52107/component/1283/itype/15/nonstandard/116888/selfRefLink/false>

Safety



2. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2013 Lexus RX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52107/component/1236/itype/387/nonstandard/111907/selfRefLink/false>

3. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2013 Lexus RX repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52107/component/465/itype/15/nonstandard/112089/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Health Check Diagnostic Scans)**

The 2013 Lexus RX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



February 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Honda Odyssey EX
VIN: 5FNRL5H43GB512124

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Right-Side Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2016 Honda Odyssey repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55410/component/6978/itype/383/nonstandard/15522/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2016 Honda Odyssey repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

February 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Acura TLX w/A-Spec Package
VIN: 19UUB6F51NA801069

3 Required Safety Operations

There are 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Advanced Pedestrian Detection
Blind Spot Warning
Collision Mitigation Braking System
Front and Rear Parking Sensors
Lane Keeping Assist System
Rear Camera
Rear Cross-Traffic Monitor
Traffic Jam Assist
Traffic Sign Recognition

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger Weight Sensor Output Check After a Vehicle Collision)**

The 2022 Acura TLX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62439/component/6978/itype/383/nonstandard/12440/selfRefLink/true>

2. SRS Unit

- **Inspection (Read SRS Deployment History)**

The 2022 Acura TLX repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62439/guid/na-au21tlx_tgv-T002219_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62439/component/611/itype/15/nonstandard/11833/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2022 Acura TLX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



February 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Honda HR-V LX
VIN: 3CZRU6H36JM109097

1 Required Steering Operation 3 Required Safety Operations

There are 1 Steering and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Steering

1. Vehicle Stability Assist Sensor

- Reset (VSA Sensor Neutral Position Memorization)

The 2018 Honda HR-V repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 57)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57939/guid/nah18HR-V_T7A-R001240_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57939/component/3399/itype/376/nonstandard/101780/selfRefLink/false>

Safety

2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2018 Honda HR-V repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57939/component/3504/itype/383/nonstandard/101915/selfRefLink/false>

3. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2018 Honda HR-V repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://www.in.honda.com/rjanisis/pubs/app/hm/serv->



[info.html?package=61T7A&lang=enu&sie=T004977_enu](https://www.in.honda.com/rjanisis/pubs/app/hm/serviceinfo.html?package=61T7A&lang=enu&sie=T004977_enu)

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serviceinfo.html?package=61T7A&lang=enu&sie=G005666_enu

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2018 Honda HR-V repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

February 23, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Audi A3 1.8T Premium
VIN: WAUA7GFF7G1046981

1 Required ADAS Operation
1 Required Steering Operation
3 Required Safety Operations

There are 1 ADAS, 1 Steering, and 3 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision Warning
Front and Rear Parking Sensors
Rear Camera

ADAS

1. Rear Camera

- **Static Calibration (Rear View Camera Calibration)**

The Rear Camera is responsible for Rear Camera on this vehicle.

The 2016 Audi A3 repair manual states that a operation is required for the Rear Camera when the following occurs:

- Four Wheel Alignment is repaired (Line number 64)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56182/component/6630/itype/387/nonstandard/12719/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/56182/guid/nad16A3-S3_8V-en-US-A-A005A004121_americ-X-L6XS5V6NE1C_html

Steering

2. Steering Angle Sensor

- **Reset (Steering Angle Sensor - Basic Setting)**

The 2016 Audi A3 repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 64)



Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56182/component/3399/itype/376/nonstandard/12334/selfRefLink/false>

Safety



3. Headlight Assembly - Programming Required if Attached Control Modules are also Replaced

- Programming (Headlamp Control Module Activation)**

The 2016 Audi A3 repair manual states that a operation is required for the Headlight Assembly - Programming Required if Attached Control Modules are also Replaced when the following occurs:

- Headlamp is replaced (Line number 17 and 19)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56182/component/536/itype/401/nonstandard/11707/selfRefLink/false>

4. Seatbelt System

- Check Installation Angle (Seatbelts Condition and Function Check)**

The 2016 Audi A3 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56182/guid/nad16A3-S3_8V-en-US-A-A005A007221_americ-X-0S851RK5HOC_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56182/component/1285/itype/383/nonstandard/10084/>

selfRefLink/false

5. Vehicle Electronics

- OEM Pre-Scan (Airbag Control Module Crash Entry Check)
- Inspection (Seatbelts Condition and Function Check)

The 2016 Audi A3 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56182/component/6978/itype/376/nonstandard/10081/>
selfRefLink/false



February 23, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Honda Odyssey LX
VIN: 5FNRL5H23FB508605

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2015 Honda Odyssey repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54467/component/6978/itype/383/nonstandard/15509/selfRefLink/false>

2. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)

The 2015 Honda Odyssey repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



February 23, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Subaru XV Crosstrek Premium
VIN: JF2GPACC6D2876640

1 Required Steering Operation 1 Required Safety Operation

There are 1 Steering and 1 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Rear Camera

Steering

1. Vehicle Dynamic Control

- Midpoint Setting (VDC Control Module Adjustment)

The 2013 Subaru XV Crosstrek repair manual states that a operation is required for the Vehicle Dynamic Control when the following occurs:

- Four Wheel Alignment is repaired (Line number 51)

Please see the documentation from the manufacturer below.

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OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52400/component/273/itype/5/nonstandard/1684025/selfRefLink/false>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**
- **Inspection (Safety System Inspection)**

The 2013 Subaru XV Crosstrek repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/52400/component/6978/itype/383/nonstandard//selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre-_and_Post-_Scanning_of_Collision_Vehicles.htm

February 23, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Volkswagen Jetta SEL Premium
VIN: 3VWG57BU8MM042053

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot System
- Adaptive Cruise Control with Stop and Go
- Front Assist
- Lane Departure Prevention
- Pedestrian Impact Prevention
- Rear Camera
- Rear Collision Warning

ADAS

1. Blind Spot Radar

- **Static Calibration (Lane Change Assistance Calibration)**

The Blind Spot Radar is responsible for Active Blind Spot System and Rear Collision Warning on this vehicle.

The 2021 Volkswagen Jetta repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 18)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62501/component/7821/itype/387/nonstandard/212070/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62501/component/7821/itype/401/nonstandard/212068/selfRefLink/true>

Safety



2. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2021 Volkswagen Jetta repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62500/guid/naww2019-2020bu3-en-US-V-K0059078821_americ-X-HX0V7WWMNBG_html#X-HX0V7WWMNBG

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62500/component/1285/itype/383/nonstandard/211401/selfRefLink/false>

3. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2021 Volkswagen Jetta repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62500/component/6978/itype/376/nonstandard/211046/selfRefLink/true>

February 23, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2023 Honda Civic Sport
VIN: 2HGFE2F57PH102557

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Forward Collision Mitigation
Lane Keeping Assist System with Road Departure
Mitigation
Lexus Teammate
Rear Camera
Traffic Jam Assist
Traffic Sign Recognition

ADAS

1. Windshield Camera(s)

- **Static or Dynamic Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Lane Keeping Assist System with Road Departure Mitigation, and Traffic Jam Assist on this vehicle.

The 2023 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/service.html?package=61T20&lang=enu&sie=R005947_enu

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2023 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=R001475_enu

3. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2023 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=T002634_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=G001469_enu

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)

The 2023 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



February 23, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Mazda Mazda3 (Trim Not Selected)
VIN: JM1BN1L70J1165986

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Distance Recognition Support System
Mazda Radar Cruise Control
Rear Camera
Rear Cross-Traffic Alert
Smart City Brake Support

Optional ADAS Features

Active Driving Display Head-Up Display
Lane Departure Prevention
Smart Brake Support

ADAS

1. Front Radar

• Static Calibration (Radar Aiming)

The Front Radar is responsible for Distance Recognition Support System and Mazda Radar Cruise Control on this vehicle.

The 2018 Mazda Mazda3 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57959/guid/natk18mazda3bn-SM1301332_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57959/component/4037/itype/401/nonstandard/13989/selfRefLink/false>

Safety

2. Seat Weight Sensor

• Occupant Sensor Calibration (DTC Inspection & Calibration)

The 2018 Mazda Mazda3 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57958/guid/ntk18mazda3bn-SM1300169_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57958/component/3504/itype/387/nonstandard/12361/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2018 Mazda Mazda3 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Mazda/Pre_and_Post-Repair_Scanning.htm

February 23, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Ford Escape Titanium
VIN: 1FMCU9J91EUC11920

- 1 Required ADAS Operation**
- 2 Required Safety Operations**
- 1 Required Operational Operation**

There are 1 ADAS, 2 Safety, and 1 Operational that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Collision Warning
Rear Parking Sensors

Optional ADAS Features

Automated Parking Assistance
Blind Spot Warning
Forward Collision Warning

ADAS

1. Parking Sensors - Rear

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2014 Ford Escape repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is replaced (Line number 38, 43, and 47)
- Parking Sensor - Rear is installed (Line number 39)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/53250/guid/nafm14escap-g1616336_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53250/component/7300/itype/401/nonstandard/110870/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53250/component/3716/itype/401/nonstandard/110459/selfRefLink/true>

Safety

2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2014 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/53250/guid/nafm14escap-g1883607_html

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2014 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

Operational



4. Power Trunk Lid/Liftgate

- **Initialization (Power Liftgate Initialization)**

The 2014 Ford Escape repair manual states that a operation is required for the Power Trunk Lid/Liftgate when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 22)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/53250/component/715/itype/387/nonstandard/110181/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53250/component/715/itype/401/nonstandard/110183/selfRefLink/true>

February 23, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Honda Civic LX
VIN: 2HGFB2F55EH021224

2 Required Steering Operations 2 Required Safety Operations

There are 2 Steering and 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Steering

1. Steering Angle Sensor

- Reset (Steering Angle Sensor Neutral Position Clear)

The 2014 Honda Civic repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 65)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54191/>

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component/3399/itype/376/nonstandard/11691/
selfRefLink/false

2. Vehicle Stability Assist Sensor

- **Reset (VSA Sensor Neutral Position Memorization)**

The 2014 Honda Civic repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 65)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54191/component/3399/itype/376/nonstandard/11691/selfRefLink/false>

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Unit Operation Check)**

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2014 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54191/>

component/3504/itype/383/nonstandard/11304/
selfRefLink/false

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2014 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



February 23, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Mercedes-Benz S-Class - 217 & 222 AMG
S 63
VIN: WDDXK7JB1HA024658

4 Required ADAS Operations 1 Required Safety Operation

There are 4 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot Assist
- Brake Assist PLUS with Cross-Traffic Assist
- Front Mounted Camera
- Head-Up Display
- PARKTRONIC with Active Parking Assist
- PRESAFE Brake
- PRESAFE Brake with Pedestrian Recognition
- Right-Side Camera
- Surround View rear mounted camera
- Surround-View Monitor

Optional ADAS Features

- Active Lane Keeping Assist
- DISTRONIC PLUS Cruise Control
- DISTRONIC PLUS with Steering Assist
- Lexus Teammate
- Night Vision
- Rear Collision Mitigation
- Traffic Sign Recognition

ADAS

1. Active Park Assist Sensors

- **Operation Check (Active Park Assist Function Test)**

The Active Park Assist Sensors is responsible for PARKTRONIC with Active Parking Assist on this vehicle.

The 2017 Mercedes-Benz S-Class - 217 & 222 repair manual states that a operation is required for the Active Park Assist Sensors when the following occurs:

- Front bumper is installed (Line number 2)
- Rear bumper is installed (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57600/component/7302/itype/401/nonstandard/112202/selfRefLink/false>

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57600/component/7309/itype/401/nonstandard/112199/selfRefLink/false>

2. Blind Spot Radar

- **Operation Check (Check Blind Spot Operation)**

The Blind Spot Radar is responsible for Active Blind Spot Assist on this vehicle.

The 2017 Mercedes-Benz S-Class - 217 & 222 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is installed (Line number 11)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57600/component/7302/itype/401/nonstandard/112202/selfRefLink/false>

3. Mercedes Distronic Sensor (B29)

- **Dynamic Calibration (Distronic Sensor Calibration)**

The Mercedes Distronic Sensor (B29) is responsible for Active Blind Spot Assist, Brake Assist PLUS with Cross-Traffic Assist, DISTRONIC PLUS Cruise Control, and DISTRONIC PLUS with Steering Assist on this vehicle.

The 2017 Mercedes-Benz S-Class - 217 & 222 repair manual states that a operation is required for the Mercedes Distronic Sensor (B29) when the following occurs:

- Front bumper is repaired (Line number 2 and 3)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57600/component/4037/itype/401/nonstandard/111320/selfRefLink/false>

4. Surround-View Monitor Cameras

- **Dynamic Calibration (Calibration of 360 Degree Camera System)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera, Surround View rear mounted camera, and Surround-View Monitor on this vehicle.

The 2017 Mercedes-Benz S-Class - 217 & 222 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 2)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57600/component/7309/itype/401/nonstandard/112199/selfRefLink/false>

Safety

5. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2017 Mercedes-Benz S-Class - 217 & 222 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>

February 23, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Mercedes-Benz C-Class - 205 C 300
VIN: 55SWF4KB7HU220603

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Collision Prevention Assist Plus
Right-Side Camera
Surround View rear mounted camera
Surround-View Monitor

Optional ADAS Features

Active Blind Spot Assist
Active Lane Keeping Assist
Blind Spot Warning
Brake Assist PLUS with Cross-Traffic Assist
DISTRONIC PLUS Cruise Control
DISTRONIC PLUS with Steering Assist
Front Mounted Camera
Head-Up Display
Lexus Teammate
PARKTRONIC with Active Parking Assist
PRE-SAFE PLUS
PRESAFE Brake with Pedestrian Recognition
Rear Camera
Rear Collision Mitigation

ADAS

1. Surround-View Monitor Cameras

- **Dynamic Calibration (Calibration of 360 Degree Camera System)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera, Surround View rear mounted camera, and Surround-View Monitor on this vehicle.

The 2017 Mercedes-Benz C-Class - 205 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1 and 11)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57540/guid/namb2015-2021205-ad00_00-p-2000-04b_pdf

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57540/component/7309/itype/401/nonstandard/12548/selfRefLink/false>

Safety

2. Headlight Assembly

• Programming (Initial Startup and Coding)

The 2017 Mercedes-Benz C-Class - 205 repair manual states that a operation is required for the Headlight Assembly when the following occurs:

- Headlamp is replaced (Line number 9)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57540/guid/namb2015-2021205-ad00_00-p-2000-04b_pdf

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57540/component/536/itype/401/nonstandard/12394/selfRefLink/false>

3. Vehicle Electronics

• Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2017 Mercedes-Benz C-Class - 205 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz-position-statements/26689.pdf>

February 22, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Ram 1500 Limited
VIN: 1C6SRFHT7NN399488

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Mitigation
Front and Rear Parking Sensors
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2022 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-
document.pdf](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf)



February 22, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Hyundai Santa Fe Luxury
VIN: KM8SNDHF3HU216001

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning
Rear Parking Sensors

ADAS

1. Blind Spot Radar

- Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)

- Dynamic Calibration (BSD Unit Alignment)

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.

The 2017 Hyundai Santa Fe repair manual states that a operation is required for the Blind Spot Radar when the

following occurs:

- Rear bumper is repaired (Line number 1, 4, and 7)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56389/component/7821/itype/376/nonstandard/3100602/selfRefLink/true>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2017 Hyundai Santa Fe repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

February 22, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Chevrolet Silverado 1500 LT
VIN: 3GCUKREC8FG246219

2 Required Safety Operations

There are 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Rear Camera
Rear Parking Sensors

Safety

1. Repairs and Inspections Required After a Collision

- Operation Check (Emergency Locking Retractor Dynamic Function Test)
- Inspection (Post Collision Safety Inspection)

The 2015 Chevrolet Silverado 1500 repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2015 Chevrolet Silverado 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

February 22, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Mercedes-Benz B-Class - 246 B 250
VIN: WDDMH4GB1JJ451450

1 Required Safety Operation

There is 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Brake Assist
Rear Camera

Optional ADAS Features

Active Distance Assist DISTRONIC
Automated Parking Assistance
Blind Spot Warning

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2018 Mercedes-Benz B-Class - 246 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf](https://rts.i-car.com/images/pdf/oem-info/mercedes-benz-position-statements/26689.pdf)



February 22, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Honda HR-V LX
VIN: 3CZRU5H39LM100469

3 Required Safety Operations

There are 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Operation Check)**

The 2020 Honda HR-V repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/RJANISIS/pubs/sm/1/2/Contents/enu/61T7AD/RIN/SCT/SC/SYS/R005420_enu/web/html/R005420_enu.html?m=T7AD&k=pubs/sm/1/2/Contents/enu/61T7AD/RIN/SCT/SC/SYS/R005420_enu/web/html/R005420_enu&p=SM&t=H&model=HR-V&year=2020&dbkey=61T7AD_R005420_enu&country=1&lang=0

2. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2020 Honda HR-V repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T7A&lang=enu&sie=T004977_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T7A&lang=enu&sie=G005666_enu

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2020 Honda HR-V repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

February 22, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 BMW X3 (F25 SUV) xDrive35i
VIN: 5UXWX7C51DL979276

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that BMW requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Forward Collision Warning
Front and Rear Parking Sensors
Front Mounted Camera
Head-Up Display
Lane Departure Warning
Right-Side Camera
Surround-View Monitor

ADAS

1. Rear Camera

- **Dynamic Calibration (Calibration of the Reversing Camera)**

The Rear Camera is responsible for Rear Camera on this vehicle.

The 2013 BMW X3 (F25 SUV) repair manual states that a operation is required for the Rear Camera when the following occurs:

- Trunk Lid/Lift Gate is replaced (Line number 3)
- Trunk Lid/Lift Gate is installed (Line number 3)
- Rear bumper is repaired (Line number 13, 14, and 22)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/52079/guid/nabm2011-2017f25-0465b83a-2b5d-fb8d-4d74-67eecc3665e7-QbFJ_html

Safety

2. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2013 BMW X3 (F25 SUV) repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52079/component/1285/itype/383/nonstandard/111364/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 BMW X3 (F25 SUV) repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW%2C_Mini%2FPreliminary_Diagnostics_For_Collision_Repair.htm

February 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Ram 1500 Rebel
VIN: 1C6SRFLT9KN779645

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Front and Rear Parking Sensors
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2019 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-
document.pdf](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf)



February 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Lincoln Nautilus Reserve
VIN: 2LMPJ8L91KBL33040

3 Required ADAS Operations 2 Required Safety Operations

There are 3 ADAS and 2 Safety that Lincoln requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Park Assist
- Adaptive Cruise Control with Stop and Go
- Automated Parking Assistance
- Blind Spot Warning
- Forward Collision Mitigation
- Lane Departure Prevention
- Pedestrian Impact Prevention
- Rear Camera
- Rear Cross-Traffic Alert

Optional ADAS Features

- Evasion Assist System
- Following Distance Alert
- Front Mounted Camera
- Right-Side Camera
- Surround-View Monitor

ADAS

1. Active Park Assist Sensors

• Operation Check (Azimuth System Check)

The Active Park Assist Sensors is responsible for Active Park Assist and Automated Parking Assistance on this vehicle.

The 2019 Lincoln Nautilus repair manual states that a operation is required for the Active Park Assist Sensors when the following occurs:

- Rear bumper is installed (Line number 16, 19, and 21)
- Active Park Sensors - Rear is installed (Line number 22)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59733/guid/nfm19nauti-g1759187_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59733/component/7300/itype/402/nonstandard/11436/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59733/component/3716/itype/401/nonstandard/10539/selfRefLink/false>



2. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2019 Lincoln Nautilus repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/55430/guid/nafm16mkz-g1587834_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

3. Parking Sensors - Rear

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**



The Parking Sensors - Rear is responsible for Active Park Assist on this vehicle.

The 2019 Lincoln Nautilus repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 16, 19, and 21)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59733/guid/nafm19nauti-g1759156_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59733/component/7300/itype/402/nonstandard/11436/selfRefLink/false>

Safety

4. Seatbelt System

- Operation Check (Road Test Inspection)

The 2019 Lincoln Nautilus repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59733/component/1285/itype/377/nonstandard/11449/selfRefLink/true>

5. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2019 Lincoln Nautilus repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



February 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Hyundai Elantra GL
VIN: KMHD84LF1HU401462

- 1 Required ADAS Operation**
- 1 Required Steering Operation**
- 1 Required Safety Operation**

There are 1 ADAS, 1 Steering, and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning

ADAS

1. Blind Spot Radar

- Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)
- Dynamic Calibration (BSD Unit Alignment)

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.

The 2017 Hyundai Elantra repair manual states that a operation is required for the Blind Spot Radar when the



following occurs:

- Rear bumper is replaced (Line number 13)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59149/component/7821/itype/376/nonstandard/3101658/selfRefLink/false>

Steering

2. Steering Angle Sensor

- **Midpoint Setting (ASP Calibration)**

The 2017 Hyundai Elantra repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 25)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59149/component/3926/itype/422/nonstandard/1309606/selfRefLink/false>

OEM procedure requirement:

<https://static.nhtsa.gov/odi/tsbs/2020/MC-10172142-0001.pdf>

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2017 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



February 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Toyota Corolla (Trim Not Selected)
VIN: 2T1BURHE1HC886235

2 Required Safety Operations

There are 2 Safety operations that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Lane Departure Alert with Steering Assist
Pedestrian Impact Prevention
Pre-Collision System
Rear Camera

Safety

1. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2017 Toyota Corolla repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:



<https://my.alldata.com/repair/#/repair/article/56652/component/1285/itype/383/nonstandard/212052/selfRefLink/false>



OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56652/component/465/itype/383/nonstandard/212057/selfRefLink/false>



2. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2017 Toyota Corolla repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- 
- 
- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

February 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Ford F-150 (Trim Not Selected)
VIN: 1FTFW1E50JFC49125

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Rear Camera with Dynamic Hitch Assist
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Active Park Assist
Blind Spot Information System with Cross-Traffic Alert
BLIS - Blind Spot Warning
Forward Collision Mitigation
Front Mounted Camera
Lane Keeping System
Pedestrian Impact Prevention
Pro-Trailer Backup Assist
Rear Cross-Traffic Alert
Rear Parking Sensors

ADAS

1. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**
- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2018 Ford F-150 repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision
- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58180/guid/nafm18fstrk1-g1948260_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58180/component/7309/itype/401/nonstandard/112104/selfRefLink/false>

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Surround-View Monitor Cameras

- **Static Calibration (360-Degree View Camera Alignment)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2018 Ford F-150 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58180/guid/nafm18fstrk1-g1719720_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58187/component/1283/itype/392/nonstandard/111505/selfRefLink/false>

Safety

3. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2018 Ford F-150 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58187/component/1285/itype/377/nonstandard/111013/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Ford F-150 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

February 21, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Ford F-150 (Trim Not Selected)
VIN: 1FTEW1EF4FKF10503

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Active Park Assist
BLIS - Blind Spot Warning
Forward Collision Mitigation
Front Mounted Camera
Lane Keeping System
Rear Camera
Rear Camera with Dynamic Hitch Assist
Rear Cross-Traffic Alert
Rear Parking Sensors

ADAS

1. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**
- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2015 Ford F-150 repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision
- Front bumper is installed (Line number 1 and 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/54358/guid/nafm15fstrk1-g1710379_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54358/component/7309/itype/401/nonstandard/110419/selfRefLink/false>

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Surround-View Monitor Cameras

- **Static Calibration (360-Degree View Camera Alignment)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2015 Ford F-150 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1 and 2)
- Grille is installed (Line number 14)
- Side Mirror is installed (Line number 41)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/54358/guid/nafm15fstrk1-g1719720_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54358/component/1283/itype/392/nonstandard/111101/selfRefLink/true>

Safety



3. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2015 Ford F-150 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54358/component/1285/itype/377/nonstandard/112007/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2015 Ford F-150 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

February 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Ford Edge Limited
VIN: 2FMDK4KC0DBA53680

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Rear Camera
Rear Parking Sensors

Optional ADAS Features

Blind Spot Warning
Forward Collision Warning
Rear Collision Warning

ADAS

1. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2013 Ford Edge repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/52013/component/1246/itype/5/nonstandard/1746328/selfRefLink/false>

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2013 Ford Edge repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52013/component/1285/itype/383/nonstandard/1736888/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Ford Edge repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

February 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Jeep Cherokee Limited
VIN: 1C4PJMDN6KD224622

1 Required Safety Operation

There is 1 Safety that Jeep requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Blind Spot Warning
Forward Collision Mitigation
Lane Keep Assist
Rear Camera
Rear Collision Mitigation

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2019 Jeep Cherokee repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-
document.pdf](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf)



February 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Honda Civic LX
VIN: 2HGFC2F5XGH037872

3 Required Safety Operations

There are 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2016 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55885/component/6978/itype/383/nonstandard/102564/selfRefLink/false>

2. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2016 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/55885/guid/nahn16CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/55885/component/611/itype/15/nonstandard/101716/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2016 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

February 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Mercedes-Benz E-Class - 207 & 212 (Trim
Not Selected)
VIN: WDDHF8JB1DA749248

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision Warning
Front and Rear Parking Sensors

Optional ADAS Features

Adaptive Cruise Control
Blind Spot Warning
Lane Departure Prevention
Lane Departure Warning
Night Vision
Pedestrian Detection Warning
Rear Camera

ADAS



1. Parking Sensors - Rear

- **Operation Check (Park Sensor Function Test)**

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors on this vehicle.

The 2013 Mercedes-Benz E-Class - 207 & 212 repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 35)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52896/component/7302/itype/401/nonstandard/1200690/selfRefLink/true>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Mercedes-Benz E-Class - 207 & 212 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz-position-statements/26689.pdf>

February 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Nissan Rogue SV
VIN: 5N1AT3BAXMC731618

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot System
- Adaptive Cruise Control with Stop and Go
- Forward Collision Mitigation
- Front Mounted Camera
- Intelligent Emergency Braking with Pedestrian Detection
- Lane Departure Prevention
- Rear Camera
- Rear Collision Mitigation
- Rear Parking Sensors
- Right-Side Camera
- Surround-View Monitor

ADAS

1. Surround-View Monitor Cameras

- **Static Calibration (Calibrating Camera Image)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2021 Nissan Rogue repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Side Mirror is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62306/guid/nas21rogue_-SIEMD-6116693_html

Safety

2. Seatbelt System

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

- **Inspection (Seatbelt Inspection)**

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**

The 2021 Nissan Rogue repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62306/component/728/itype/383/nonstandard/13867/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Nissan Rogue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm



February 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Acura RDX w/A-Spec Package
VIN: 5J8TC2H69ML800973

3 Required Safety Operations

There are 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Information System
Collision Mitigation Braking System
Front and Rear Parking Sensors
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Monitor

Safety



1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)**

The 2021 Acura RDX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61803/component/3504/itype/383/nonstandard/12011/selfRefLink/true>

2. SRS Unit

- **Inspection (Read SRS Deployment History)**

The 2021 Acura RDX repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61803/component/611/itype/377/nonstandard/12917/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61803/component/611/itype/15/nonstandard/11516/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2021 Acura RDX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



February 16, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Hyundai Elantra GL
VIN: 5NPDH4AE1FH617186

2 Required Safety Operations

There are 2 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Seat Weight Sensor

- **Reset (Occupant Detection Reset)**

The 2015 Hyundai Elantra repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54852/component/3504/itype/401/nonstandard/10385/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2015 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



February 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Ram 1500 Limited
VIN: 1C6SRFHTXNN373824

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Mitigation
Front and Rear Parking Sensors
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2022 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-
document.pdf](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf)



February 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Toyota RAV4 LE
VIN: 2T3BFREV4JW716686

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Forward Collision Mitigation
Lane Departure Alert
Pedestrian Impact Prevention
Rear Camera

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2018 Toyota RAV4 repair manual states that a operation is required for the Front Radar when the following occurs:

- **Front bumper is repaired (Line number 1 and 2)**

- Front bumper is installed (Line number 1 and 9)
- Fender is replaced (Line number 8)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58323/guid/natty2013-2018rav4-RM100000000PH3Q_html

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58323/component/4037/itype/401/nonstandard/215124/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58323/component/7309/itype/401/nonstandard/216133/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58323/component/7309/itype/401/nonstandard/216129/selfRefLink/false>

Safety

2. Seatbelt System

• Dynamic Function Test (Running Test)

The 2018 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53001/component/465/itype/15/nonstandard/211226/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



February 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Honda Odyssey EX
VIN: 5FNRL5H49GB507137

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Right-Side Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2016 Honda Odyssey repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55410/component/6978/itype/383/nonstandard/15522/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2016 Honda Odyssey repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

February 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Ford Escape SE
VIN: 1FMCU0GD0KUA82717

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering
Rear Camera

Optional ADAS Features

Blind Spot Information System with Cross-Traffic Alert
Ford Co-Pilot360 - Blind Spot Information System
Ford Co-Pilot360 - Lane-Keeping Assist
Forward Collision Warning
Rear Parking Sensors

ADAS

1. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering on this vehicle.

The 2019 Ford Escape repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59749/guid/nafm19escap-g1841057_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2019 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59749/component/1285/itype/377/nonstandard/11570/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

February 14, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Nissan Pathfinder Platinum
VIN: 5N1DR2MM6JC669465

2 Required Safety Operations

There are 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Following Distance Alert
Forward Emergency Braking
Front Mounted Camera
Intelligent Cruise Control
Rear Camera
Rear Collision Warning
Rear Parking Sensors
Right-Side Camera
Surround-View Monitor

Safety



1. Seatbelt System

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**
- **Inspection (Seatbelt Inspection)**
- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

The 2018 Nissan Pathfinder repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58283/component/1285/itype/383/nonstandard/15199/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Nissan Pathfinder repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm

February 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Buick Enclave Avenir
VIN: 5GAEVCKW8KJ207793

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Buick requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Following Distance Alert
- Forward Collision Mitigation
- Front and Rear Park Assist
- Front Mounted Camera
- Lane Change Alert with Side Blind Zone Alert
- Lane Keep Assist with Lane Departure Warning
- Rear Camera
- Rear Cross-Traffic Alert
- Right-Side Camera
- Surround-View Monitor

Optional ADAS Features

Adaptive Cruise Control - Advanced

ADAS

1. Surround-View Monitor Cameras

- **Static Calibration (Video Processing Control Module Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2019 Buick Enclave repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1 and 5)
- Front bumper is repaired (Line number 1 and 2)
- Side Mirror is installed

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/gm-driver-assistance-systems-aid.pdf>

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59233/component/871/itype/387/nonstandard/11412/selfRefLink/true>

2. Windshield Camera(s)

- **Dynamic Calibration (Front View Camera Module Learn)**

The Windshield Camera(s) is responsible for Adaptive Cruise Control - Advanced, Following Distance Alert, and Lane Keep Assist with Lane Departure Warning on this vehicle.

The 2019 Buick Enclave repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 7)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59233/component/6798/itype/387/nonstandard/13803/selfRefLink/true>

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/gm-driver-assistance-systems-aid.pdf>

Safety

3. Repairs and Inspections Required After a Collision

- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**
- **Inspection (Post Collision Safety Inspection)**

The 2019 Buick Enclave repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Buick Enclave repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>



February 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Lincoln MKZ Hybrid Reserve
VIN: 3LN6L5MU2HR655750

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Lincoln requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
BLIS - Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert

Optional ADAS Features

Automated Parking Assistance
Forward Collision Mitigation
Lane Departure Prevention
Pedestrian Impact Prevention
Rear Parking Sensors

ADAS

1. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2017 Lincoln MKZ repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56627/component/1246/itype/5/nonstandard/10673/selfRefLink/false>

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2017 Lincoln MKZ repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56627/component/1285/itype/377/nonstandard/11489/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Lincoln MKZ repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

February 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Toyota C-HR (Trim Not Selected)
VIN: JTNKHMBX4K1061475

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Monitor
Full-Speed Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Pre-Collision System with Pedestrian Detection
Rear Camera
Rear Cross-Traffic Alert
Toyota Safety Sense P

ADAS

1. Blind Spot Radar

- **Inspection (Visually Inspect Installation Area for Damage)**
- **Check Installation Angle (Blind Spot Monitor Sensor Installation Condition Inspection)**

The Blind Spot Radar is responsible for Blind Spot Monitor and Rear Cross-Traffic Alert on this vehicle.

The 2019 Toyota C-HR repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 56)
- Rear bumper is replaced (Line number 57 and 62)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57634/guid/naty2018-2022ch-r-RM1000000015AP8_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57634/component/1283/itype/15/nonstandard/111852/selfRefLink/false>

Safety



2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2019 Toyota C-HR repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57634/component/465/itype/15/nonstandard/112887/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Toyota C-HR repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm

February 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Chevrolet Equinox LT
VIN: 1GNALDEK9DZ116786

2 Required Safety Operations

There are 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Repairs and Inspections Required After a Collision

- **Inspection (Post Collision Safety Inspection)**
- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2013 Chevrolet Equinox repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/>

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[index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf](https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf)

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Chevrolet Equinox repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>



February 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Mercedes-Benz GL-Class - 166 GL 350
BlueTEC
VIN: 4JGDF2EE4FA449213

**2 Required ADAS Operations
1 Required Safety Operation**

There are 2 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Blind Spot Assist
Blind Spot Warning
PARKTRONIC with Active Parking Assist
Rear Camera

Optional ADAS Features

Active Lane Keeping Assist
DISTRONIC PLUS Cruise Control
Forward Collision Warning
Front Mounted Camera
Lane Departure Warning
Night Vision
Pedestrian Detection Warning
PRE-SAFE
Right-Side Camera
Surround-View Monitor

ADAS

1. Blind Spot Radar

• Operation Check (Check Blind Spot Operation)

The Blind Spot Radar is responsible for Active Blind Spot Assist and Blind Spot Warning on this vehicle.

The 2015 Mercedes-Benz GL-Class - 166 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is installed (Line number 1, 2, 8, and 9)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55304/component/7302/itype/401/nonstandard/12050/selfRefLink/false>

2. Parking Sensors - Rear

• Operation Check (Park Sensor Function Test)

The Parking Sensors - Rear is responsible for PARKTRONIC with Active Parking Assist on this vehicle.

The 2015 Mercedes-Benz GL-Class - 166 repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 1, 2, 8, and 9)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55304/component/7302/itype/401/nonstandard/12050/selfRefLink/false>

Safety

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2015 Mercedes-Benz GL-Class - 166 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz-position-statements/26689.pdf>



February 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Toyota RAV4 XLE
VIN: 2T3R1RFV0MC165450

3 Required Safety Operations

There are 3 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Monitor with Lane Change Assist
Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Lane Tracing Assist
Pre-Collision System with Pedestrian Detection
Rear Camera
Rear Cross-Traffic Alert
Toyota Safety Sense (TSS) 2.0

Safety

1. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2021 Toyota RAV4 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/1236/itype/387/nonstandard/117923/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/611/itype/15/nonstandard/120929/selfRefLink/false>

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2021 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/465/itype/15/nonstandard/114942/selfRefLink/false>

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2021 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



February 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Honda Civic LX
VIN: SHHFK7H34JU301724

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera

ADAS

1. Front Radar

- **Vertically Align Sensor (Vertical Radar Aim)**
- **Static Calibration (Horizontal Radar Aim)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow and Collision Mitigation Braking System on this vehicle.

The 2018 Honda Civic repair manual states that a operation

is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1)
- Front bumper (if damaged within 300mm of radar) is replaced (Line number 2)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 10)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58209/component/1283/itype/387/nonstandard/102695/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Lane Keeping Assist System on this vehicle.

The 2018 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 10)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58209/component/1283/itype/387/nonstandard/102694/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2018 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58208/component/6978/itype/383/nonstandard/103252/selfRefLink/false>

4. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2018 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58208/guid/nah18CIVIC_TBA-T004942_enu_html



OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58208/component/611/itype/15/nonstandard/102316/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2018 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

February 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Honda Odyssey LX
VIN: 5FNRL5H23FB508605

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2015 Honda Odyssey repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54467/component/6978/itype/383/nonstandard/15509/selfRefLink/false>

2. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)

The 2015 Honda Odyssey repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



February 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Hyundai Elantra GL
VIN: KMHD84LF4HU379733

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

• Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2017 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position->

statements/31340.pdf



February 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Mazda CX-5 (Trim Not Selected)
VIN: JM3KFBCM7N0588673

2 Required Safety Operations

There are 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Mitigation
Lane Departure Prevention
Mazda Radar Cruise Control
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Alert

Safety

1. Seat Weight Sensor

- Occupant Sensor Calibration (DTC Inspection & Calibration)

The 2022 Mazda CX-5 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62030/guid/ntk21cx_5-SM2898751_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62030/component/3504/itype/387/nonstandard/15612/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2022 Mazda CX-5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Mazda/Pre_and_Post-Repair_Scanning.htm

February 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Mercedes-Benz GLA-Class - 156 GLA 250
VIN: WDCTG4GB4KJ619358

2 Required ADAS Operations 1 Required Safety Operation

There are 2 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Collision Prevention Assist Plus
Distance Pilot DISTRONIC
Pedestrian Impact Prevention
Right-Side Camera
Surround View rear mounted camera
Surround-View Monitor

Optional ADAS Features

Active Blind Spot System
Front and Rear Parking Sensors
Front Mounted Camera
Lane Departure Prevention
Rear Camera

ADAS

1. Mercedes Distronic Sensor (B92, A89)

- **Vertically Align Sensor (Distronic Vertical Alignment)**
- **Dynamic Calibration (Distronic Driving Calibration)**

The Mercedes Distronic Sensor (B92, A89) is responsible for Distance Pilot DISTRONIC on this vehicle.

The 2019 Mercedes-Benz GLA-Class - 156 repair manual states that a operation is required for the Mercedes Distronic Sensor (B92, A89) when the following occurs:

- Four Wheel Alignment is repaired (Line number 56)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60302/component/4037/itype/401/nonstandard/10644/selfRefLink/true>

2. Surround-View Monitor Cameras

- **Dynamic Calibration (Calibration of 360 Degree Camera System)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera, Surround View rear mounted camera, and Surround-View Monitor on this vehicle.

The 2019 Mercedes-Benz GLA-Class - 156 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Right Front Door is installed (Line number 15)
- Side Mirror is installed (Line number 16)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60302/component/754/itype/401/nonstandard/11204/selfRefLink/true>

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Mercedes-Benz GLA-Class - 156 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>

February 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Chevrolet Traverse LT
VIN: 1GNKVGKD6HJ246440

2 Required Safety Operations

There are 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Safety

1. Repairs and Inspections Required After a Collision

- Operation Check (Emergency Locking Retractor Dynamic Function Test)
- Inspection (Post Collision Safety Inspection)

The 2017 Chevrolet Traverse repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Chevrolet Traverse repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

February 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Kia Sorento EX 2.4
VIN: 5XYPHDA31KG579438

1 Required Safety Operation

There is 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2019 Kia Sorento repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm

February 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Ford Escape SE
VIN: 1FMCU0GXXGUA15513

2 Required Safety Operations

There are 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Rear Collision Warning
Rear Parking Sensors

Safety

1. Seatbelt System

- Operation Check (Road Test Inspection)

The 2016 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55362/component/1285/itype/377/nonstandard/10462/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2016 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



February 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Ford Escape SE
VIN: 1FMCU0GXXGUA15513

2 Required Safety Operations 1 Required Operational Operation

There are 2 Safety and 1 Operational that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Rear Collision Warning
Rear Parking Sensors

Safety

1. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2016 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55362/component/1285/itype/377/nonstandard/10462/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2016 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

Operational

3. Power Window System

- **Initialization (Power Door Window Initialization)**

The 2016 Ford Escape repair manual states that a operation is required for the Power Window System when the following occurs:

- Front Door is replaced (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/55362/component/429/itype/387/nonstandard/10674/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/55362/component/7114/itype/401/nonstandard/10680/selfRefLink/true>



February 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Acura ILX (Trim Not Selected)
VIN: 19UDE2F87KA800773

2 Required Safety Operations

There are 2 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Blind Spot Information System
Collision Mitigation Braking System
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Monitor

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)**

The 2019 Acura ILX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/59537/guid/na-au19ILX_TX6-R003310_enu_html

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2019 Acura ILX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

February 8, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Honda Civic Touring
VIN: 2HGFC1F92KH100078

2 Required ADAS Operations
1 Required Steering Operation
3 Required Safety Operations

There are 2 ADAS, 1 Steering, and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System
Rear Camera
Right-Side Camera

ADAS

1. Front Radar

• Static Calibration (Millimeter Wave Radar - Aim)

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2019 Honda Civic repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1)
- Front bumper (if damaged within 300mm of radar) is replaced (Line number 2)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 17 and 37)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59659/component/1283/itype/387/nonstandard/14014/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

• Static Calibration (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System on this vehicle.

The 2019 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 17 and 37)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59659/component/1283/itype/387/nonstandard/14019/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Steering

3. Vehicle Stability Assist Sensor

- **Reset (VSA Sensor Neutral Position Memorization)**

The 2019 Honda Civic repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 63)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59659/component/3399/itype/376/nonstandard/13999/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/59659/guid/nah19CIVIC_TBA-R_001644_enu_html

Safety

4. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2019 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59659/>

component/6978/itype/383/nonstandard/13312/
selfRefLink/false

5. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2019 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59659/guid/nah19CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59659/component/611/itype/15/nonstandard/12375/selfRefLink/false>

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2019 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

February 7, 2023

leevl5
50-mohawk rd w
hamilton, ON, l9v1v7

adasThink Vehicle Report

Vehicle: 2013 MINI Roadster - R59 Cooper (M6)
VIN: WMWSY1C57DT429460

2 Required Safety Operations

There are 2 Safety that MINI requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2013 MINI Roadster - R59 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56039/component/1285/itype/383/nonstandard/112365/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 MINI Roadster - R59 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW%2C_Mini%2FPreliminary_Diagnostics_For_Collision_Repair.htm

February 6, 2023

leevl5
50-mohawk rd w
hamilton, ON, l9v1v7

adasThink Vehicle Report

Vehicle: 2018 Mercedes-Benz CLA-Class - 117 CLA 250
VIN: WDDSJ4GB4JN662176

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Collision Prevention Assist Plus
Parking Pilot - Automated Parking Assistance
Rear Camera

Optional ADAS Features

Blind Spot Warning
DISTRONIC PLUS Cruise Control
Lane Departure Warning

ADAS

1. Parking Sensors - Rear

- **Operation Check (Park Sensor Function Test)**

The Parking Sensors - Rear is responsible for Parking Pilot - Automated Parking Assistance on this vehicle.

The 2018 Mercedes-Benz CLA-Class - 117 repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is replaced (Line number 18 and 22)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58709/component/3716/itype/401/nonstandard/110855/selfRefLink/false>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Mercedes-Benz CLA-Class - 117 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz-position-statements/26689.pdf>

February 6, 2023

leevl5
50-mohawk rd w
hamilton, ON, l9v1v7

adasThink Vehicle Report

Vehicle: 2021 Ford F-150 King Ranch
VIN: 1FTFW1E83MKD49788

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Stop and Go
- Blind Spot Warning
- Evasion Assist System
- Ford Co-Pilot360 - Pre-Collision Assist with Automatic Emergency Braking
- Lane Departure Prevention
- Pedestrian Impact Prevention
- Rear Camera with Dynamic Hitch Assist
- Rear Collision Mitigation
- Right-Side Camera
- Surround-View Monitor
- Traffic Sign Recognition with Speed Limiter

Optional ADAS Features

- Ford Co-Pilot360 - Active Park Assist 2.0
- Front Mounted Camera
- Pro-Trailer Backup Assist
- Rear Parking Sensors

ADAS

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1. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2021 Ford F-150 repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2165784_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Surround-View Monitor Cameras

- **Dynamic Calibration (360-Degree View Camera Alignment)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2021 Ford F-150 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Grille is installed (Line number 4)
- Side Mirror is installed (Line number 11)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2160994_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62254/component/1283/itype/392/nonstandard/10243/selfRefLink/false>

Safety

3. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2021 Ford F-150 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2152543_html

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Ford F-150 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



February 2, 2023

leevl5
50-mohawk rd w
hamilton, ON, l9v1v7

adasThink Vehicle Report

Vehicle: 2017 Volvo XC60 T6 Drive-E Premier
VIN: YV449MRK4H2101056

1 Required Safety Operation

There is 1 Safety that Volvo requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

City Safety

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
BLIS - Blind Spot Warning
Following Distance Alert
Front and Rear Parking Sensors
Front Mounted Camera
Lane Departure Warning
Pedestrian Impact Prevention
Rear Camera
Rear Collision Warning
Traffic Sign Recognition

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2017 Volvo XC60 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Volvo/Pre_Post_Scanning.htm



February 2, 2023

leevl5
50-mohawk rd w
hamilton, ON, l9v1v7

adasThink Vehicle Report

Vehicle: 2017 Ram 1500 Night
VIN: 1C6RR7MTXHS628522

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2017 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

February 2, 2023

leevl5
50-mohawk rd w
hamilton, ON, l9v1v7

adasThink Vehicle Report

Vehicle: 2020 Ford Edge (Trim Not Selected)
VIN: 2FMPK3J92LBB17164

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Stop and Go
- Blind Spot Information System with Cross-Traffic Alert
- Ford Co-Pilot360 - Automatic Emergency Braking
- Ford Co-Pilot360 - Blind Spot Information System
- Ford Co-Pilot360 - Lane-Keepering Assist
- Pedestrian Impact Prevention
- Rear Camera
- Rear Parking Sensors

Optional ADAS Features

Evasion Assist System

ADAS



1. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**
- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2020 Ford Edge repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60653/guid/nafm20edge-g2011080_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Parking Sensors - Rear

- **Operation Check (Elevation System Check)**
- **Operation Check (Azimuth System Check)**



The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2020 Ford Edge repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- **Rear bumper is installed (Line number 32)**



Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60653/guid/nafm20edge-g1737070_html

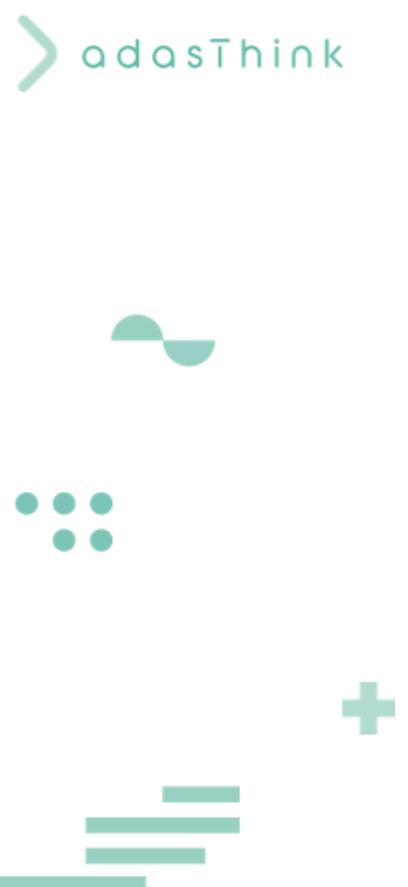
OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60653/component/7300/itype/402/nonstandard/111525/selfRefLink/false>

Safety

3. Seatbelt System

• Operation Check (Road Test Inspection)



The 2020 Ford Edge repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60653/component/1285/itype/377/nonstandard/111535/selfRefLink/false>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2020 Ford Edge repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



February 2, 2023

LV5
689 Enfield RD
Burlington, ON, L7T 2X9

adasThink Vehicle Report

Vehicle: 2020 Mercedes-Benz CLS-Class - 257 AMG CLS
53
VIN: WDD2J6BB7LA051801

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Automated Parking Assistance
Blind Spot Warning
Collision Prevention Assist Plus

Optional ADAS Features

Active Distance Assist DISTROニック
Active Speed Limit Assist
COLLISION PREVENTION ASSIST PLUS
Front Mounted Camera
Head-Up Display
Lane Departure Prevention
PRE-SAFE Brake with Pedestrian Recognition
Rear Camera
Right-Side Camera
Surround View rear mounted camera
Surround-View Monitor

ADAS

1. Blind Spot Radar

- **Dynamic Calibration (Calibrate Radar Sensors)**

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2020 Mercedes-Benz CLS-Class - 257 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is installed (Line number 5, 6, and 22)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61427/component/7302/itype/401/nonstandard/111334/selfRefLink/false>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Mercedes-Benz CLS-Class - 257 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz-position-statements/26689.pdf>

February 2, 2023

LV5
689 Enfield RD
Burlington, ON, L7T 2X9

adasThink Vehicle Report

Vehicle: 2017 BMW 3 Series (F30 Sedan, F31 Wagon,
F34 Sedan Touring) 330i xDrive
VIN: WBA8D9G35HNU62030

3 Required Safety Operations

There are 3 Safety that BMW requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Blind Spot Warning
Forward Collision Mitigation
Forward Collision Warning
Front and Rear Parking Sensors
Front Mounted Camera
Head-Up Display
Lane Departure Warning
Pedestrian Impact Prevention
Rear Camera
Right-Side Camera
Surround-View Monitor
Traffic Sign Recognition

Safety



1. Headlight Assembly - Programming Required if Attached Control Modules are also Replaced

- **Programming (Encode/Program Control Unit)**

The 2017 BMW 3 Series (F30 Sedan, F31 Wagon, F34 Sedan Touring) repair manual states that a operation is required for the Headlight Assembly - Programming Required if Attached Control Modules are also Replaced when the following occurs:

- Headlamp is replaced (Line number 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58024/guid/nabmF30-7b1c3a95-d066-b9a0-77a4-8ff2cd178270-91Ns_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58024/component/896/itype/401/nonstandard/1101732/selfRefLink/false>

2. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2017 BMW 3 Series (F30 Sedan, F31 Wagon, F34 Sedan Touring) repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57146/>

component/1285/itype/383/nonstandard/1100830/
selfRefLink/false

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 BMW 3 Series (F30 Sedan, F31 Wagon, F34 Sedan Touring) repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW%2C_Mini%2FPreliminary_Diagnostics_For_Collision_Repair.htm

February 2, 2023

LV5
689 Enfield RD
Burlington, ON, L7T 2X9

adasThink Vehicle Report

Vehicle: 2017 GMC Sierra 1500 Base
VIN: 1GTV2LEH8HZ407815

2 Required Safety Operations

There are 2 Safety that GMC requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Rear Camera

Safety

1. Repairs and Inspections Required After a Collision

- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2017 GMC Sierra 1500 repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 GMC Sierra 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

February 2, 2023

LV5
689 Enfield RD
Burlington, ON, L7T 2X9

adasThink Vehicle Report

Vehicle: 2015 Ford Fusion SE
VIN: 1FA6P0HD6F5119329

4 Required ADAS Operations
2 Required Safety Operations
1 Required Operational Operation

There are 4 ADAS, 2 Safety, and 1 Operational that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Automated Parking Assistance
Lane Departure Prevention
Rear Camera
Rear Parking Sensors

Optional ADAS Features

BLIS - Blind Spot Warning
Forward Collision Warning
Rear Cross-Traffic Alert

ADAS

1. Active Park Assist Sensors

- **Operation Check (Azimuth System Check)**

The Active Park Assist Sensors is responsible for Automated Parking Assistance on this vehicle.

The 2015 Ford Fusion repair manual states that a operation is required for the Active Park Assist Sensors when the following occurs:

- Front bumper is installed (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54381/component/1283/itype/383/nonstandard/10758/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54381/component/7306/itype/402/nonstandard/10236/selfRefLink/false>

2. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**

- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2015 Ford Fusion repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure instructions:

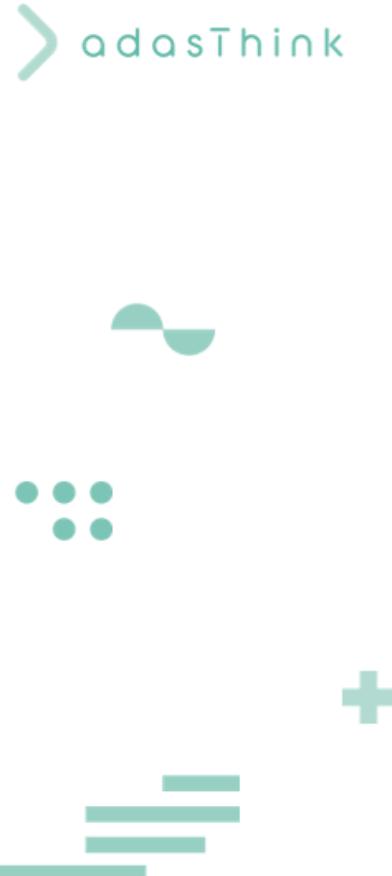
https://my.alldata.com/repair/#/repair/article/54381/guid/nafm15fusio-g1570396_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

3. Parking Sensors - Rear

- **Operation Check (Elevation System Check)**
- **Operation Check (Azimuth System Check)**



The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2015 Ford Fusion repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 58)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54381/component/1283/itype/383/nonstandard/10969/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54381/component/7300/itype/402/nonstandard/10237/selfRefLink/false>

4. Windshield Camera(s)

- **Dynamic Calibration (IPMA Camera Alignment)**

The Windshield Camera(s) is responsible for Lane Departure Prevention on this vehicle.

The 2015 Ford Fusion repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Four Wheel Alignment is repaired (Line number 71)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54381/component/7848/itype/392/nonstandard/10148/selfRefLink/false>

Safety

5. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2015 Ford Fusion repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54381/component/1285/itype/383/nonstandard/1736945/selfRefLink/false>



6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2015 Ford Fusion repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



Operational

7. Power Window System

- **Initialization (Power Door Window Initialization)**

The 2015 Ford Fusion repair manual states that a operation is required for the Power Window System when the following occurs:

- Front Door is replaced (Line number 19)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54381/component/429/itype/387/nonstandard/10504/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54381/>

component/7114/itype/401/nonstandard/10505/
selfRefLink/false



February 2, 2023

LV5
689 Enfield RD
Burlington, ON, L7T 2X9

adasThink Vehicle Report

Vehicle: 2013 MINI Roadster - R59 Cooper (M6)
VIN: WMWSY1C57DT429460

2 Required Safety Operations

There are 2 Safety that MINI requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2013 MINI Roadster - R59 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56039/component/1285/itype/383/nonstandard/112365/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 MINI Roadster - R59 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW%2C_Mini%2FPreliminary_Diagnostics_For_Collision_Repair.htm

February 2, 2023

LV5
689 Enfield RD
Burlington, ON, L7T 2X9

adasThink Vehicle Report

Vehicle: 2020 Nissan Rogue S
VIN: 5N1AT2MV0LC759730

2 Required Safety Operations

There are 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Mitigation
Intelligent Emergency Braking with Pedestrian Detection
Lane Departure Prevention
Rear Camera
Rear Cross-Traffic Alert

Safety

1. Seatbelt System

- Operation Check (Seatbelt Retractor Off-Vehicle Check)
- Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)
- Inspection (Seatbelt Inspection)

The 2020 Nissan Rogue repair manual states that a operation is required for the Seatbelt System when the



following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60028/component/1285/itype/383/nonstandard/13998/selfRefLink/false>

2. Vehicle Electronics

• Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2020 Nissan Rogue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm

February 2, 2023

LV5
689 Enfield RD
Burlington, ON, L7T 2X9

adasThink Vehicle Report

Vehicle: 2017 Ford Edge SEL
VIN: 2FMPK4J81HBB60222

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Optional ADAS Features

BLIS - Blind Spot Warning
Rear Cross-Traffic Alert

ADAS

1. Parking Sensors - Rear

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2017 Ford Edge repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 1, 4, and 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56826/guid/nafm17edge-g1737070_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56826/component/7300/itype/402/nonstandard/10134/selfRefLink/false>

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2017 Ford Edge repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56826/component/1285/itype/377/nonstandard/11402/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Ford Edge repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

February 2, 2023

LV5
689 Enfield RD
Burlington, ON, L7T 2X9

adasThink Vehicle Report

Vehicle: 2022 Hyundai Santa Fe Preferred
VIN: 5NMS3DAJ7NH387538

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot System
- Adaptive Cruise Control
- Forward Collision Avoidance Assist with Pedestrian Detection
- Forward Collision-Avoidance Assist
- Lane Keeping Assist
- Rear Camera
- Rear Collision Mitigation
- Rear Parking Sensors

ADAS

1. Front Radar

- **Static or Dynamic Calibration (Forward Collision-Avoidance Assist (FCA) Radar Alignment)**
- **Check Installation Angle (Vertical Calibration)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2022 Hyundai Santa Fe repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1 and 4)
- Grille is replaced (Line number 7)
- Front Reinforcement Bar is installed (Line number 16)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2\\$3_4_4&sitinfolist=94^9404^94040100^none^801^4^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^\\$94^9404^94040100^none^801^1^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^\\$94^9404^94040100^none^801^8^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^\\$94^9404^94040100^none^801^5^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^\\$&firstnode_desc=Advanced%20Driver%20Assistance%20System%20\(ADAS\)&cat1=2022%20%3E%20G%202.5%20T-GDI%20THETA%20III&content_no=SHOP|ENG|6356|2022|27784|all|0|2\\$3_4_4|801&cntssn=65118&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2$3_4_4&sitinfolist=94^9404^94040100^none^801^4^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^$94^9404^94040100^none^801^1^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^$94^9404^94040100^none^801^8^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^$94^9404^94040100^none^801^5^ENG^HY^TM13^2021^all^0^none^none^none^SHOP^^$&firstnode_desc=Advanced%20Driver%20Assistance%20System%20(ADAS)&cat1=2022%20%3E%20G%202.5%20T-GDI%20THETA%20III&content_no=SHOP|ENG|6356|2022|27784|all|0|2$3_4_4|801&cntssn=65118&printtype=content_print&imgnum=1)

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2022 Hyundai Santa Fe repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



February 2, 2023

LV5
689 Enfield RD
Burlington, ON, L7T 2X9

adasThink Vehicle Report

Vehicle: 2017 Kia Sorento (Trim Not Selected)
VIN: 5XYPKDA55HG305851

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Adaptive Cruise Control
Adaptive Cruise Control with Stop and Go
Autonomous Emergency Braking
Blind Spot Warning
Forward Collision Mitigation
Front Mounted Camera
Lane Departure Warning
Rear Cross-Traffic Alert

ADAS

1. Surround-View Monitor Cameras

- **Static Calibration (Manual Tolerance Compensation)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2017 Kia Sorento repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1)
- Front Door is installed (Line number 14)
- Side Mirror is installed (Line number 18 and 22)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56613/component/871/itype/387/nonstandard/3101955/selfRefLink/false>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Kia Sorento repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



February 2, 2023

LV5
689 Enfield RD
Burlington, ON, L7T 2X9

adasThink Vehicle Report

Vehicle: 2019 Ram 1500 Express
VIN: 3C6RR7KT3KG643929

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2019 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

February 1, 2023

Niagara Level5Drive
75 Eastchester Ave
St Catharines, ON, L2P 0G2

adasThink Vehicle Report

Vehicle: 2017 Nissan Rogue S
VIN: 5N1AT2MV9HC805918

2 Required Safety Operations

There are 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Emergency Braking
Rear Camera
Rear Cross-Traffic Alert

Safety

1. Seatbelt System

- **Inspection (Seatbelt Inspection)**
- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**
- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**

The 2017 Nissan Rogue repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57667/component/728/itype/383/nonstandard/103689/selfRefLink/false>

2. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2017 Nissan Rogue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm



January 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Hyundai Tucson Luxury
VIN: KM8J3CAL5MU392814

- 1 Required ADAS Operation**
- 1 Required Steering Operation**
- 1 Required Safety Operation**

There are 1 ADAS, 1 Steering, and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Blind Spot Warning
- Forward Collision-Avoidance Assist
- Front Mounted Camera
- Lane Keeping Assist
- Rear Camera
- Rear Cross-Traffic Collision Warning
- Right-Side Camera
- Surround-View Monitor

ADAS

1. Surround-View Monitor Cameras

- **Static Calibration (Manual Tolerance Compensation)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2021 Hyundai Tucson repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 3, 4, and 5)
- Side Mirror is installed (Line number 79)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61878/component/871/itype/387/nonstandard/23975/selfRefLink/false>

Steering

2. Steering Angle Sensor

- **Midpoint Setting (ASP Calibration)**

The 2021 Hyundai Tucson repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 99)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61878/component/3915/itype/376/nonstandard/23506/>

selfRefLink/false

OEM procedure requirement:

[https://static.nhtsa.gov/odi/tsbs/2020/
MC-10172142-0001.pdf](https://static.nhtsa.gov/odi/tsbs/2020/MC-10172142-0001.pdf)

Safety

3. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2021 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://rts.i-car.com/images/pdf/oem-info/hyundai/position-
statements/31340.pdf](https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf)

January 31, 2023

Niagara Level5Drive
75 Eastchester Ave
St Catharines, ON, L2P 0G2

adasThink Vehicle Report

Vehicle: 2020 Honda Accord EX-L
VIN: 1HGCV1F53LA803098

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Warning
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Rear Camera
Rear Cross-Traffic Alert
Road Departure Mitigation
Traffic Sign Recognition

Optional ADAS Features

Rear Parking Sensors

ADAS

1. Windshield Camera(s)

• Static Calibration (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Road Departure Mitigation on this vehicle.

The 2020 Honda Accord repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is installed (Line number 1 and 5)
- Lane Departure Camera is installed (Line number 2)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60873/component/1283/itype/387/nonstandard/13129/selfRefLink/false>

Safety

2. Seat Weight Sensor

• Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2020 Honda Accord repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:



<https://my.alldata.com/repair/#/repair/article/60873/component/6978/itype/383/nonstandard/13318/selfRefLink/false>

3. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2020 Honda Accord repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60873/guid/nah20accord_hybrid_twa-T004647_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60873/component/611/itype/15/nonstandard/12570/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2020 Honda Accord repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://owners.honda.com/collision/static/pdfs/collision/>

post-collision_diagnostic_scans_ps_072116.pdf



January 31, 2023

Niagara Level5Drive
75 Eastchester Ave
St Catharines, ON, L2P 0G2

adasThink Vehicle Report

Vehicle: 2018 Hyundai Sonata GL
VIN: 5NPE24AF6JH616087

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert

ADAS

1. Blind Spot Radar

- **Dynamic Calibration (BSD Unit Alignment)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Cross-Traffic Alert on this vehicle.

The 2018 Hyundai Sonata repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 30)

Please see the documentation from the manufacturer below.

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OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57713/component/7821/itype/376/nonstandard/3102538/selfRefLink/true>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2018 Hyundai Sonata repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

January 31, 2023

Niagara Level5Drive
75 Eastchester Ave
St Catharines, ON, L2P 0G2

adasThink Vehicle Report

Vehicle: 2018 Hyundai Santa Fe SE
VIN: 5NMZUDLB3JH063403

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert
Rear Parking Sensors

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2018 Hyundai Santa Fe repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

January 30, 2023

Niagara Level5Drive
75 Eastchester Ave
St Catharines, ON, L2P 0G2

adasThink Vehicle Report

Vehicle: 2019 Toyota RAV4 LE
VIN: 2T3B1RFV3KW058406

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Full-Speed Dynamic Radar Cruise Control
Lane Departure Alert
Lane Tracing Assist
Pre-Collision System with Pedestrian Detection
Rear Camera
Road Sign Assist
Toyota Safety Sense (TSS) 2.0

Optional ADAS Features

Blind Spot Monitor with Lane Change Assist
Rear Cross-Traffic Alert

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Full-Speed Dynamic Radar Cruise Control, Pre-Collision System with Pedestrian Detection, and Toyota Safety Sense (TSS) 2.0 on this vehicle.

The 2019 Toyota RAV4 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1 and 2)
- Front bumper is installed (Line number 1 and 7)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60196/guid/nty2019-2022rav4-RM10000001ENPO_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60196/component/7309/itype/401/nonstandard/120186/selfRefLink/false>

Safety



2. Seat Weight Sensor

- **Reset (Zero Point Calibration)**

The 2019 Toyota RAV4 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60196/component/1236/itype/387/nonstandard/117923/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60196/component/611/itype/15/nonstandard/120929/selfRefLink/false>

3. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2019 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60196/component/465/itype/15/nonstandard/114942/selfRefLink/false>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2019 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



January 30, 2023

Niagara Level5Drive
75 Eastchester Ave
St Catharines, ON, L2P 0G2

adasThink Vehicle Report

Vehicle: 2021 Jeep Grand Cherokee High Altitude
VIN: 1C4RJFCT3MC504432

1 Required Safety Operation

There is 1 Safety that Jeep requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Blind Spot Warning
Forward Collision Mitigation
Lane Departure Prevention
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

- **OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)**

The 2021 Jeep Grand Cherokee repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-
document.pdf](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf)



January 30, 2023

Niagara Level5Drive
75 Eastchester Ave
St Catharines, ON, L2P 0G2

adasThink Vehicle Report

Vehicle: 2021 Acura RDX w/A-Spec Package
VIN: 5J8TC2H61ML803866

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Low-Speed Follow
- Blind Spot Information System
- Collision Mitigation Braking System
- Front and Rear Parking Sensors
- Lane Keeping Assist System
- Pedestrian Impact Prevention
- Rear Camera
- Rear Cross-Traffic Monitor

ADAS

1. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System and Lane Keeping Assist System on this vehicle.

The 2021 Acura RDX repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61803/component/6798/itype/387/nonstandard/11767/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61803/component/735/itype/401/nonstandard/11607/selfRefLink/true>

Safety

2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)**

The 2021 Acura RDX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61803/component/3504/itype/383/nonstandard/12011/selfRefLink/true>

3. SRS Unit

- **Inspection (Read SRS Deployment History)**

The 2021 Acura RDX repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61803/component/611/itype/377/nonstandard/12917/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61803/component/611/itype/15/nonstandard/11516/selfRefLink/true>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**



The 2021 Acura RDX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



January 30, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Kia Sportage EX
VIN: KNDPNCACXH7252044

- 1 Required ADAS Operation**
- 1 Required Steering Operation**
- 1 Required Safety Operation**

There are 1 ADAS, 1 Steering, and 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Autonomous Emergency Braking
Rear Camera

Optional ADAS Features

Blind Spot Warning
Front and Rear Parking Sensors
Lane Departure Warning System
Pedestrian Impact Prevention
Rear Cross-Traffic Alert

ADAS

1. Front Radar

- **Dynamic Calibration (Horizontal Calibration)**
- **Check Installation Angle (Vertical Calibration)**

The Front Radar is responsible for Autonomous Emergency Braking on this vehicle.

The 2017 Kia Sportage repair manual states that a operation is required for the Front Radar when the following occurs:

- Front End Alignment is repaired (Line number 34)
- Four Wheel Alignment is repaired (Line number 34)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56406/component/1283/itype/376/nonstandard/3102175/selfRefLink/false>

Steering

2. Steering Angle Sensor

- **Reset (Steering Angle Sensor Calibration)**

The 2017 Kia Sportage repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Front End Alignment is repaired (Line number 34)
- Four Wheel Alignment is repaired (Line number 34)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56406/>

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Kia Sportage repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



January 30, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Ford Escape SE
VIN: 1FMCU9GX3EUE02356

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Optional ADAS Features

Rear Collision Warning

ADAS

1. Parking Sensors - Rear

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2014 Ford Escape repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is replaced (Line number 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/53250/guid/nafm14escap-g1616336_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53250/component/7300/itype/401/nonstandard/110870/selfRefLink/true>

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2014 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/53250/guid/nafm14escap-g1883607_html

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2014 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

January 30, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Nissan Rogue Platinum
VIN: JN8AT3DD2MW312225

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot System
- Adaptive Cruise Control with Stop and Go
- Forward Collision Mitigation
- Front and Rear Parking Sensors
- Front Mounted Camera
- Head-Up Display
- Intelligent Emergency Braking with Pedestrian Detection
- Lane Departure Prevention
- Rear Camera
- Rear Collision Mitigation
- Right-Side Camera
- Surround-View Monitor
- Traffic Sign Recognition with Speed Limiter

ADAS

1. Surround-View Monitor Cameras

- **Static Calibration (Calibrating Camera Image)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2021 Nissan Rogue repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Side Mirror is installed (Line number 2)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62306/guid/nas21rogue_-SIEMD-6116693_html

Safety

2. Seatbelt System

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

- **Inspection (Seatbelt Inspection)**

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**

The 2021 Nissan Rogue repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62306/component/728/itype/383/nonstandard/13867/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Nissan Rogue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm



January 30, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Dodge Journey Crossroad
VIN: 3C4PDCGG3ET253220

1 Required Safety Operation

There is 1 Safety that Dodge requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2014 Dodge Journey repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

January 30, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Nissan Sentra S
VIN: 3N1AB7AP2DL769856

2 Required Safety Operations

There are 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Seatbelt System

- **Inspection (Seatbelt Inspection)**
- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**
- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

The 2013 Nissan Sentra repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/52977/component/465/itype/376/nonstandard/681627/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Nissan Sentra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/CoIRef/Position_Statements/Nissan/Pre_and_Post_Repair_Scanning.htm

January 30, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 GMC Sierra 1500 Elevation
VIN: 1GTU9CED0LZ379456

2 Required Safety Operations

There are 2 Safety that GMC requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Front and Rear Parking Sensors
Hitch Guidance - Trailer Backup Assist
Lane Change Alert with Side Blind Zone Alert
Pickup Box Camera
Rear Camera
Rear Cross-Traffic Alert

Safety



1. Repairs and Inspections Required After a Collision

- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2020 GMC Sierra 1500 repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 GMC Sierra 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

January 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Kia Rio LX
VIN: 3KPA25AB0JE137606

1 Required Safety Operation

There is 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2018 Kia Rio repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



January 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Volkswagen Golf TSI
VIN: 3VWG57AU2MM009020

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Front Assist
Pedestrian Monitoring
Rear Camera
Rear Collision Warning

ADAS



1. Blind Spot Radar

- **Static Calibration (Lane Change Assistance Calibration)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Collision Warning on this vehicle.

The 2021 Volkswagen Golf repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is installed (Line number 29)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62495/component/7821/itype/387/nonstandard/212405/selfRefLink/true>

Steering



2. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2021 Volkswagen Golf repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62495/component/3399/itype/376/nonstandard/214361/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62495/component/6978/itype/376/nonstandard/214166/selfRefLink/true>

Safety

3. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2021 Volkswagen Golf repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62495/guid/naww2018-2021au2-en-US-V-K0059241221_amERICA-X-HX0V7WWMNBG_html#X-HX0V7WWMNBG

4. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2021 Volkswagen Golf repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62495/component/6978/itype/376/nonstandard/214166/selfRefLink/true>

January 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Audi Q5 Technik
VIN: WA1FAAFY3M2020984

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Audi Pre Sense City - Forward Collision Mitigation
Audi Pre Sense City - Pedestrian Impact Prevention
Audi Side Assist
Front Mounted Camera
Rear Collision Mitigation
Right-Side Camera
Surround-View Monitor
Top View Camera System

Optional ADAS Features

Adaptive Cruise Control
Audi Active Lane Assist
Front and Rear Parking Sensors
Head-Up Display
Lane Departure Warning
Traffic Sign Recognition with Speed Limiter

ADAS

1. Blind Spot Radar

- **Static Calibration (Lane Change Assistance Calibration)**

The Blind Spot Radar is responsible for Audi Side Assist on this vehicle.

The 2021 Audi Q5 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 47)
- Rear bumper is installed (Line number 47, 48, 53, and 55)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/61201/guid/nad2018-2020q5_fyb-en-US-A-A005A021521_americax-X-1A701549YUPUBI_html#X-1A701549YUPUBI

Steering

2. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2021 Audi Q5 repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61200/component/3399/itype/376/nonstandard/115082/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61200/component/3399/itype/376/nonstandard/115081/selfRefLink/false>

Safety

3. Seatbelt System

- **Check Installation Angle (Seatbelts Condition and Function Check)**

The 2021 Audi Q5 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61200/guid/nad2018-2020q5_fyb-en-US-A-A005A022521_americax-0S851RK5HOC_html#X-0S851RK5HOC

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61200/component/1285/itype/383/nonstandard/114564/selfRefLink/false>

4. Vehicle Electronics

- **Inspection (Seatbelts Condition and Function Check)**
- **OEM Pre-Scan (Airbag Control Module Crash Entry Check)**

The 2021 Audi Q5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61200/component/6978/itype/376/nonstandard/114561/selfRefLink/false>

January 27, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 BMW X3 (G01 SUV & F97 X3M) xDrive30i
VIN: 5UX53DP09N9J41225

3 Required Safety Operations

There are 3 Safety that BMW requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Blind Spot Detection
Daytime Pedestrian Detection
Frontal Collision Warning with City Collision Mitigation
Lane Departure Warning
Park Distance Control - Front and Rear Parking Sensors
Rear Camera
Rear Cross-Traffic Alert
Traffic Sign Recognition

Optional ADAS Features

Head-Up Display

Safety



1. Headlight Assembly - Programming Required if Attached Control Modules are also Replaced

- **Programming (Encode/Program Control Unit(s))**

The 2022 BMW X3 (G01 SUV & F97 X3M) repair manual states that a operation is required for the Headlight Assembly - Programming Required if Attached Control Modules are also Replaced when the following occurs:

- Headlamp is replaced (Line number 15)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59050/component/621/itype/387/nonstandard/111813/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/59050/guid/nabm2018-2021g01-8f49baef-051d-3c85-85f0-92485bcc2ee3-ngek-8fe9bfdcc-002_html

2. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2022 BMW X3 (G01 SUV & F97 X3M) repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62524/component/1285/itype/383/nonstandard/113881/>

selfRefLink/false

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2022 BMW X3 (G01 SUV & F97 X3M) repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW%2C_Mini%2FPreliminary_Diagnostics_For_Collision_Repair.htm



January 26, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 BMW X3 (G01 SUV & F97 X3M) xDrive30i
VIN: 5UX53DP09N9J41225

3 Required Safety Operations

There are 3 Safety that BMW requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Blind Spot Detection
Daytime Pedestrian Detection
Frontal Collision Warning with City Collision Mitigation
Lane Departure Warning
Park Distance Control - Front and Rear Parking Sensors
Rear Camera
Rear Cross-Traffic Alert
Traffic Sign Recognition

Optional ADAS Features

Head-Up Display

Safety



1. Headlight Assembly - Programming Required if Attached Control Modules are also Replaced

- **Programming (Encode/Program Control Unit(s))**

The 2022 BMW X3 (G01 SUV & F97 X3M) repair manual states that a operation is required for the Headlight Assembly - Programming Required if Attached Control Modules are also Replaced when the following occurs:

- Headlamp is replaced (Line number 15)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59050/component/621/itype/387/nonstandard/111813/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/59050/guid/nabm2018-2021g01-8f49baef-051d-3c85-85f0-92485bcc2ee3-ngek-8fe9bfdcc-002_html

2. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2022 BMW X3 (G01 SUV & F97 X3M) repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62524/component/1285/itype/383/nonstandard/113881/>

selfRefLink/false

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2022 BMW X3 (G01 SUV & F97 X3M) repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW%2C_Mini%2FPreliminary_Diagnostics_For_Collision_Repair.htm



January 26, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Volvo XC60 Inscription
VIN: YV4A22RL3K1333312

1 Required Safety Operation

There is 1 Safety that Volvo requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Blind Spot System
Automated Parking Assistance
City Safety
Pedestrian Impact Prevention
Rear Collision Mitigation
Traffic Sign Recognition

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
Front Mounted Camera
Head-Up Display
Lane Departure Prevention
Lane Departure Warning
Rear Camera
Right-Side Camera
Surround-View Monitor

Safety

1. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Volvo XC60 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Volvo/Pre_Post_Scanning.htm



January 25, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Subaru Forester (Trim Not Selected)
VIN: JF2SJHUC6HH495196

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
EyeSight - Adaptive Cruise Control
EyeSight - Forward Collision Mitigation
Lane Departure Prevention
Rear Camera

Optional ADAS Features

Rear Collision Mitigation
Rear Collision Warning

ADAS

1. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Camera adjustment and function check)

The Windshield Camera(s) is responsible for EyeSight - Adaptive Cruise Control, EyeSight - Forward Collision Mitigation, and Lane Departure Prevention on this vehicle.

The 2017 Subaru Forester repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56951/component/6798/itype/376/nonstandard/15468/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56951/component/1283/itype/15/nonstandard/10133/selfRefLink/false>

Safety



2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Subaru Forester repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre_and_Post_Scanning_of_Collision_Vehicles.htm

3. Vehicle Electronics

- **Inspection (Safety System Inspection After a Collision)**

The 2017 Subaru Forester repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56951/component/6978/itype/376/nonstandard/14567/selfRefLink/false>

January 25, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Ford F-250 (Trim Not Selected)
VIN: 1FT7W2BT4KEF44393

3 Required ADAS Operations 2 Required Safety Operations

There are 3 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Front Mounted Camera
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Ford Co-Pilot360 - Blind Spot Information System
Forward Collision Warning
Lane Departure Warning
Pickup Box Camera
Rear Camera
Rear Cross-Traffic Alert
Rear Parking Sensors

ADAS

1. Front Camera

- **Initialization (LIN New Module Initialization)**

The Front Camera is responsible for Front Mounted Camera on this vehicle.

The 2019 Ford F-250 repair manual states that a operation is required for the Front Camera when the following occurs:

- Front View Camera is replaced (Line number 41)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59276/component/6798/itype/401/nonstandard/111676/selfRefLink/false>

2. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**

- **Dynamic Calibration (Cruise Control Radar Alignment)**

- **Programming (Programmable Module Installation)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2019 Ford F-250 repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision
- Front bumper is installed (Line number 1 and 3)
- Wave Radar Sensor is replaced (Line number 28)
- Wave Radar Sensor is installed (Line number 28)

Please see the documentation from the manufacturer below.



OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59276/guid/nafm19f250-550-g1869902_html



OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59276/component/7309/itype/401/nonstandard/111733/selfRefLink/false>



OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59276/component/451/itype/401/nonstandard/112072/selfRefLink/false>



OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

3. Surround-View Monitor Cameras

- **Static Calibration (360-Degree View Camera Alignment)**



The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.



The 2019 Ford F-250 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1 and 3)
- Grille is installed (Line number 29, 61, and 62)
- Front View Camera is installed (Line number 41)



Please see the documentation from the manufacturer below.



OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59276/guid/nafm19f250-550-g1864358_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59276/component/1283/itype/392/nonstandard/111467/selfRefLink/false>

Safety

4. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2019 Ford F-250 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59276/component/1285/itype/377/nonstandard/11547/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Ford F-250 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



Potential ADAS

6. Windshield Camera(s) (Potential)

- **Dynamic Calibration (IPMA Camera Alignment)**

The Windshield Camera(s) is responsible for Lane Departure Warning on this vehicle if the vehicle is equipped with this sensor.

The 2019 Ford F-250 repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is replaced (Line number 60)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59276/component/7848/itype/392/nonstandard/111477/selfRefLink/false>

January 25, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Honda Odyssey EX
VIN: 5FNRL6H47LB501515

4 Required ADAS Operations 3 Required Safety Operations

There are 4 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera
Rear Parking Sensors
Right-Side Camera

ADAS

1. Front Radar

- **Static Calibration (Horizontal Radar Aim)**
- **Vertically Align Sensor (Vertical Radar Aim)**

The Front Radar is responsible for Adaptive Cruise Control and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2020 Honda Odyssey repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60810/component/1246/itype/387/nonstandard/12826/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Honda LaneWatch Camera

- **Static Calibration (LaneWatch Camera Aiming)**

The Honda LaneWatch Camera is responsible for Right-Side Camera on this vehicle.

The 2020 Honda Odyssey repair manual states that a operation is required for the Honda LaneWatch Camera when the following occurs:

- Right Side Mirror is installed (Line number 3)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60810/component/8414/itype/387/nonstandard/12845/selfRefLink/false>

3. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2020 Honda Odyssey repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 21, 22, and 26)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60810/component/871/itype/387/nonstandard/12669/selfRefLink/false>

4. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System with Forward Collision Warning and Lane Keeping Assist System on this vehicle.

The 2020 Honda Odyssey repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor

cosmetic abrasion) is repaired (Line number 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60810/component/1283/itype/387/nonstandard/12825/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Safety

5. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2020 Honda Odyssey repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60810/component/6978/itype/383/nonstandard/12799/selfRefLink/false>

6. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2020 Honda Odyssey repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60810/guid/nahn20odyssey_thr-T004552_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60810/component/611/itype/15/nonstandard/12142/selfRefLink/false>

7. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2020 Honda Odyssey repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

January 26, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Lexus ES Base (A6)
VIN: JTHBK1GG3E2089813

3 Required Safety Operations

There are 3 Safety that Lexus requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Adaptive Cruise Control
Blind Spot Warning
Forward Collision Warning
Front and Rear Parking Sensors
Lane Departure Warning
Rear Camera
Rear Collision Warning

Safety



1. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2014 Lexus ES repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/53833/guid/nax14es300h-RM0000010VN099X_html

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2014 Lexus ES repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53834/component/465/itype/15/nonstandard/311255/selfRefLink/false>

3. Vehicle Electronics

- Pre- and Post-Scan Required (Health Check Diagnostic Scans)

The 2014 Lexus ES repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



January 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Audi S5 Prestige
VIN: WAUR4AF59JA113166

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Audi Pre Sense Basic
Audi Pre Sense City - Pedestrian Impact Prevention
Audi Side Assist
Front and Rear Parking Sensors
Front Mounted Camera
Head-Up Display
Rear Camera
Rear Collision Mitigation
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
Audi Active Lane Assist
Traffic Jam Assist
Traffic Sign Recognition

ADAS

1. Blind Spot Radar

- **Static Calibration (Lane Change Assistance Calibration)**

The Blind Spot Radar is responsible for Audi Side Assist on this vehicle.

The 2018 Audi S5 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is installed (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60071/component/871/itype/387/nonstandard/116052/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60071/component/7300/itype/401/nonstandard/114338/selfRefLink/false>

Steering

2. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2018 Audi S5 repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60071/component/3399/itype/376/nonstandard/114798/selfRefLink/false>

Safety

3. Seatbelt System

- **Check Installation Angle (Seatbelts Condition and Function Check)**

The 2018 Audi S5 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60071/component/1285/itype/383/nonstandard/115195/selfRefLink/false>

4. Vehicle Electronics

- **Inspection (Seatbelts Condition and Function Check)**

- **OEM Pre-Scan (Airbag Control Module Crash Entry Check)**

The 2018 Audi S5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:



<https://my.alldata.com/repair/#/repair/article/60076/component/6978/itype/376/nonstandard/114252/selfRefLink/false>



January 25, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Lincoln Corsair Reserve
VIN: 5LMCJ2DHXLUL14640

4 Required ADAS Operations
2 Required Safety Operations
1 Required Operational Operation

There are 4 ADAS, 2 Safety, and 1 Operational that Lincoln requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Blind Spot Warning
Forward Collision Mitigation
Lane Departure Prevention
Pedestrian Impact Prevention
Rear Camera
Rear Parking Sensors
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Blind Spot Information System with Cross-Traffic Alert
Evasion Assist System
Front Mounted Camera
Head-Up Display
Rear Collision Mitigation
Traffic Sign Recognition with Speed Limiter

ADAS

1. Active Park Assist Sensors

- **Operation Check (Azimuth System Check)**

The Active Park Assist Sensors is responsible for Automated Parking Assistance on this vehicle.

The 2020 Lincoln Corsair repair manual states that a operation is required for the Active Park Assist Sensors when the following occurs:

- Rear bumper is installed (Line number 38, 44, and 45)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60822/guid/nafm20corsa-g2101247_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60822/component/7300/itype/401/nonstandard/110574/selfRefLink/false>

2. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**

- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2020 Lincoln Corsair repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60822/guid/nafm20corsa-g2092139_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

3. Parking Sensors - Rear

- **Operation Check (Elevation System Check)**
- **Operation Check (Azimuth System Check)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2020 Lincoln Corsair repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 38, 44, and 45)
- Parking Sensor - Rear is installed (Line number 39)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60822/guid/nafm20corsa-g2100840_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60822/component/7300/itype/401/nonstandard/110574/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60822/component/3716/itype/401/nonstandard/110947/selfRefLink/false>

4. Surround-View Monitor Cameras

- **Dynamic Calibration (360 Degree View Camera Alignment)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2020 Lincoln Corsair repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 15)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60822/guid/nafm20corsa-g2102620_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60822/component/1283/itype/392/nonstandard/110754/selfRefLink/true>

Safety

5. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2020 Lincoln Corsair repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59728/component/451/itype/401/nonstandard/10460/https://my.alldata.com/repair/#/repair/article/59728/component/451/itype/401/nonstandard/10460/selfRefLink/trueselfRefLink/true>

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/60822/guid/nafm20corsa-g2109807_html

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Lincoln Corsair repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



Operational

7. Power Trunk Lid/Liftgate

- **Initialization (Power Liftgate Initialization)**

The 2020 Lincoln Corsair repair manual states that a operation is required for the Power Trunk Lid/Liftgate when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 15)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60822/component/715/itype/387/nonstandard/111543/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60822/component/715/itype/401/nonstandard/111050/selfRefLink/false>

January 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Jeep Grand Cherokee Summit
VIN: 1C4RJFJT2MC717357

1 Required Safety Operation

There is 1 Safety that Jeep requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Blind Spot Warning
Forward Collision Mitigation
Lane Keep Assist
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2021 Jeep Grand Cherokee repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-
document.pdf](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf)



January 25, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Chevrolet Cruze LT
VIN: 3G1BE6SM3JS518538

2 Required Safety Operations

There are 2 Safety operations that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Lane Change Alert with Side Blind Zone Alert
Rear Cross-Traffic Alert
Rear Parking Sensors

Safety

1. Repairs and Inspections Required After a Collision

- Operation Check (Emergency Locking Retractor Dynamic Function Test)
- Inspection (Post Collision Safety Inspection)

The 2018 Chevrolet Cruze repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Chevrolet Cruze repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

January 24, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Mercedes-Benz C-Class - 204 (Trim Not Selected)
VIN: WDDGF8AB7EA916919

1 Required Safety Operation

There is 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Active Blind Spot Assist
Adaptive Cruise Control
Blind Spot Warning
Forward Collision Warning
Front and Rear Parking Sensors
Lane Departure Prevention
Lane Departure Warning
PRE-SAFE
Rear Camera

Safety



INHOUSE

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)



The 2014 Mercedes-Benz C-Class - 204 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.



OEM procedure requirement:

[https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf](https://rts.i-car.com/images/pdf/oem-info/mercedes-benz-position-statements/26689.pdf)



January 23, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Acura RDX w/A-Spec Package
VIN: 5J8TC2H6XML802974

4 Required ADAS Operations
1 Required Steering Operation
3 Required Safety Operations

There are 4 ADAS, 1 Steering, and 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Information System
Collision Mitigation Braking System
Front and Rear Parking Sensors
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Monitor

ADAS



1. Blind Spot Radar \$375 Check Installation Angle (BSI Radar Unit)

Mounting Area Check)

- Static Calibration (BSI Radar Unit Aiming Inspection)

The Blind Spot Radar is responsible for Blind Spot Information System and Rear Cross-Traffic Monitor on this vehicle.

The 2021 Acura RDX repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Structural Body (Rear) is replaced (Line number 36, 44, 46, and 61)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61803/guid/na-au21rdx_tjb-R003541_enu_html

OEM procedure requirement:

https://my.alldata.com/CoRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Front Radar \$275 Static Calibration (Millimeter Wave Radar - Aim)



The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow and Collision Mitigation Braking System on this vehicle.

The 2021 Acura RDX repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor



cosmetic abrasion) is replaced (Line number 36, 44, 46, and 61)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61803/component/4037/itype/387/nonstandard/11769/selfRefLink/true>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

3. Parking Sensors - Rear in house Reset (Resetting the Parking and Back-Up Sensor

Control Unit)

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors on this vehicle.

The 2021 Acura RDX repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 52, 53, 54, and 57)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61803/component/3715/itype/387/nonstandard/11680/selfRefLink/true>



4. Windshield Camera(s) \$275

Static Calibration (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Collision Mitigation Braking System and Lane Keeping Assist System on this vehicle.

The 2021 Acura RDX repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 36, 44, 46, and 61)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61803/component/6798/itype/387/nonstandard/11767/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Acura/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Steering



5. Vehicle Stability Assist Sensor \$80 Reset (VSA Sensor Neutral Position Memorization)

The 2021 Acura RDX repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 82)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61803/guid/na-au21rdx_tjb-R002800_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61803/component/3399/itype/376/nonstandard/11722/selfRefLink/true>

Safety



6. Seat Weight Sensor \$80 Operation Check (Front Passenger's Weight)

Sensor Output Check After A Vehicle Collision)

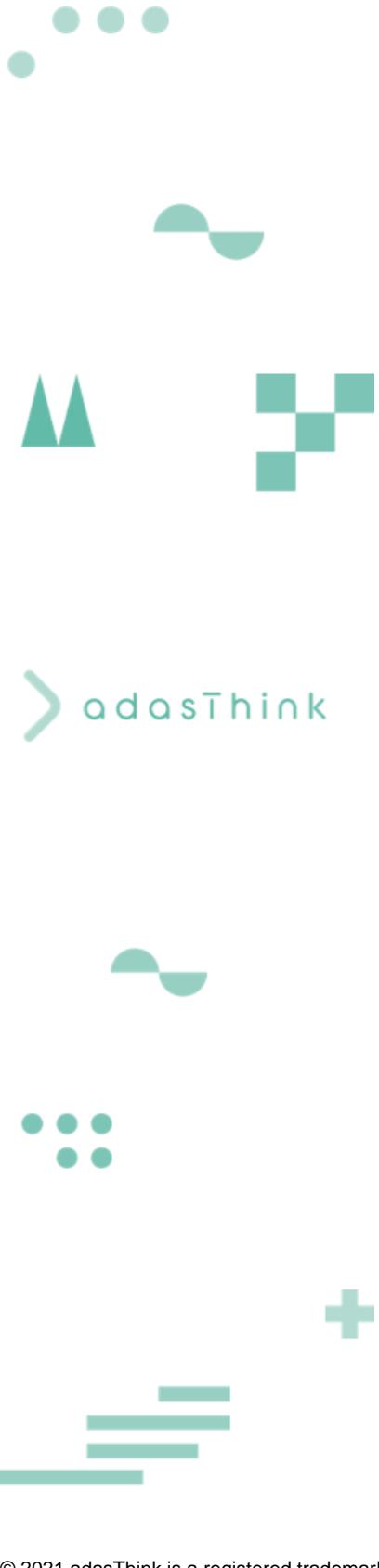
The 2021 Acura RDX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61803/>



component/3504/itype/383/nonstandard/12011/
selfRefLink/true

7. SRS Unit **inhouse** **Inspection (Read SRS Deployment History)**

The 2021 Acura RDX repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61803/component/611/itype/377/nonstandard/12917/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61803/component/611/itype/15/nonstandard/11516/selfRefLink/true>

8. Vehicle Electronics **inhouse** **Pre- and Post-Scan Required (Diagnostic Scan)**

Position Statement and Inspections)

The 2021 Acura RDX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

January 23, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Toyota Highlander XLE
VIN: 5TDGZRBH7MS527662

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Blind Spot Monitor
- Evasion Assist System
- Full-Speed Dynamic Radar Cruise Control
- Lane Departure Alert with Steering Assist
- Lane Tracing Assist
- Pre-Collision System
- Pre-Collision System with Pedestrian Detection
- Rear Camera
- Rear Cross-Traffic Alert
- Road Sign Assist

ADAS

1. Front Radar

- **Reset (Clear Vehicle Control History (RoB))**
- **Static or Dynamic Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Full-Speed Dynamic Radar Cruise Control, Pre-Collision System, and Pre-Collision System with Pedestrian Detection on this vehicle.

The 2021 Toyota Highlander repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 8)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62170/guid/natty2020-2022highv-RM10000001REPK_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62170/component/7309/itype/401/nonstandard/120016/selfRefLink/false>

Safety



2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2021 Toyota Highlander repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62170/component/465/itype/15/nonstandard/114618/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Toyota Highlander repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

January 23, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Ford Explorer XLT
VIN: 1FM5K8D89HGE06677

- 1 Required ADAS Operation**
- 2 Required Safety Operations**
- 1 Required Operational Operation**

There are 1 ADAS, 2 Safety, and 1 Operational that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Front and Rear Parking Sensors
Rear Camera
Rear Parking Sensors

Optional ADAS Features

BLIS - Blind Spot Warning
Rear Cross-Traffic Alert

ADAS

1. Parking Sensors - Rear

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors and Rear Parking Sensors on this vehicle.

The 2017 Ford Explorer repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 20, 23, and 27)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56816/guid/nafm17explo-g1751834_html

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/56816/guid/nafm17explo-g1748666_html

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2017 Ford Explorer repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56816/component/1285/itype/377/nonstandard/111995/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Ford Explorer repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

Operational

4. Power Trunk Lid/Liftgate

• Initialization (Power Liftgate Initialization)

The 2017 Ford Explorer repair manual states that a operation is required for the Power Trunk Lid/Liftgate when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56816/component/715/itype/387/nonstandard/111734/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56816/component/715/itype/401/nonstandard/110158/selfRefLink/false>



January 19, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Mazda Mazda3 i Sport
VIN: 3MZBM1U77FM160535

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Rear Parking Sensors

Steering

1. TPMS

- Initialization + 20-Minute Drive Cycle (TPMS Initialization)

The 2015 Mazda Mazda3 repair manual states that a operation is required for the TPMS when the following occurs:

- Wheel is replaced (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54835/component/3914/itype/418/nonstandard/1422297/selfRefLink/false>

Safety

2. Seat Weight Sensor

- **Occupant Sensor Calibration (DTC Inspection & Calibration)**

The 2015 Mazda Mazda3 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54835/component/1236/itype/378/nonstandard/1410165/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54835/component/3504/itype/383/nonstandard/1386853/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2015 Mazda Mazda3 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Mazda/Pre_and_Post-Repair_Scanning.htm



January 19, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Honda Civic LX
VIN: 2HGFE2F20NH103407

2 Required ADAS Operations
1 Required Steering Operation
3 Required Safety Operations

There are 2 ADAS, 1 Steering, and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System with Road Departure Mitigation
Rear Camera
Traffic Jam Assist
Traffic Sign Recognition

ADAS

1. Blind Spot Radar

- **Check Installation Angle (BSI Radar Unit Mounting Area Check)**
- **Dynamic Calibration (Blind Spot Information (BSI) System Learning Value Reset)**

The 2022 Honda Civic repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 66)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61T20&lang=enu&sie=R002958_enu

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

- **Static or Dynamic Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, Lane Keeping Assist System with Road Departure Mitigation, and Traffic Jam Assist on this vehicle.

The 2022 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is installed (Line number 16)
- Structural Body Parts (if damaged beyond minor



cosmetic abrasion) is replaced (Line number 26)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=R005947_enu

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

Steering

3. Vehicle Stability Assist Sensor

- **Reset (VSA Sensor Neutral Position Memorization)**

The 2022 Honda Civic repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 101)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=R004974_enu

Safety

4. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2022 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=R001475_enu

5. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2022 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=T002634_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=G001469_enu

6. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)

The 2022 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



January 19, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Audi Q5 Technik
VIN: WA1FAAFY3M2020984

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Audi Pre Sense City - Forward Collision Mitigation
Audi Pre Sense City - Pedestrian Impact Prevention
Audi Side Assist
Front Mounted Camera
Rear Collision Mitigation
Right-Side Camera
Surround-View Monitor
Top View Camera System

Optional ADAS Features

Adaptive Cruise Control
Audi Active Lane Assist
Front and Rear Parking Sensors
Head-Up Display
Lane Departure Warning
Traffic Sign Recognition with Speed Limiter

ADAS

1. Blind Spot Radar

- **Static Calibration (Lane Change Assistance Calibration)**

The Blind Spot Radar is responsible for Audi Side Assist on this vehicle.

The 2021 Audi Q5 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 47)
- Rear bumper is installed (Line number 47, 48, 53, and 55)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/61201/guid/nad2018-2020q5_fyb-en-US-A-A005A021521_americax-X-1A701549YUPUBI_html#X-1A701549YUPUBI

Steering

2. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2021 Audi Q5 repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61200/component/3399/itype/376/nonstandard/115082/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61200/component/3399/itype/376/nonstandard/115081/selfRefLink/false>

Safety

3. Seatbelt System

- **Check Installation Angle (Seatbelts Condition and Function Check)**

The 2021 Audi Q5 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61200/guid/nad2018-2020q5_fyb-en-US-A-A005A022521_americax-0S851RK5HOC_html#X-0S851RK5HOC

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61200/component/1285/itype/383/nonstandard/114564/selfRefLink/false>

4. Vehicle Electronics

- **Inspection (Seatbelts Condition and Function Check)**
- **OEM Pre-Scan (Airbag Control Module Crash Entry Check)**

The 2021 Audi Q5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61200/component/6978/itype/376/nonstandard/114561/selfRefLink/false>

January 19, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Acura RDX w/Technology Package
VIN: 5J8TC2H56ML809024

3 Required Safety Operations

There are 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Information System
Collision Mitigation Braking System
Front and Rear Parking Sensors
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Monitor

Safety



1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)**

The 2021 Acura RDX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61803/component/3504/itype/383/nonstandard/12011/selfRefLink/true>

2. SRS Unit

- **Inspection (Read SRS Deployment History)**

The 2021 Acura RDX repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61803/component/611/itype/377/nonstandard/12917/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61803/component/611/itype/15/nonstandard/11516/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2021 Acura RDX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



January 18, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Honda Civic Sport
VIN: 2HGFC2F85LH023382

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System
Rear Camera

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar - Aim)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2020 Honda Civic repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1)
- Front bumper (if damaged within 300mm of radar) is replaced (Line number 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60819/component/4037/itype/387/nonstandard/13767/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Honda/Aiming_Driving_Support_Systems_-_Job_Aid.htm

2. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System on this vehicle.

The 2020 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is installed (Line number 15)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60819/component/1283/itype/387/nonstandard/13763/selfRefLink/false>

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2020 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60819/component/6978/itype/383/nonstandard/13058/selfRefLink/false>



4. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2020 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60819/guid/nahn20civic_tba-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60819/component/611/itype/15/nonstandard/12086/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2020 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

January 18, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Volvo XC40 Inscription
VIN: YV4162UL0M2404040

1 Required Safety Operation

There is 1 Safety that Volvo requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

BLIS - Blind Spot Warning
City Safety
Lane Departure Prevention
Pedestrian Impact Prevention
Rear Collision Mitigation
Traffic Sign Recognition

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Front and Rear Parking Sensors
Front Mounted Camera
Rear Camera
Right-Side Camera
Surround-View Monitor

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2021 Volvo XC40 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Volvo/Pre_Post_Scanning.htm



January 18, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Jeep Cherokee Sport
VIN: 1C4PJLAB6GW127940

1 Required Safety Operation

There is 1 Safety that Jeep requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2016 Jeep Cherokee repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

January 18, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Honda Pilot EX-L
VIN: 5FNYF4H51DB502726

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2013 Honda Pilot repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52607/component/3504/itype/383/nonstandard/1534772/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2013 Honda Pilot repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



January 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Kia K5 EX
VIN: 5XXG34J29NG114095

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Lane Departure Warning System
Pedestrian Detection
Rear Camera
Rear Cross-Traffic Alert
Safe Exit Assist

Optional ADAS Features

Forward Collision-Avoidance Assist
Front and Rear Parking Sensors
Front Mounted Camera
Rear Collision Mitigation
Rear Parking Sensors
Right-Side Camera
Smart Cruise Control with Stop & Go
Surround-View Monitor

ADAS

1. Blind Spot Radar

- **Dynamic Calibration (BSD Unit Alignment)**
- **Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)**

The Blind Spot Radar is responsible for Blind Spot Warning, Rear Cross-Traffic Alert, and Safe Exit Assist on this vehicle.

The 2022 Kia K5 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 6)
- Blind Spot Module is installed (Line number 33 and 34)
- Rear bumper is repaired (Line number 38, 41, and 46)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61897/component/7821/itype/376/nonstandard/35554/selfRefLink/true>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 Kia K5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



January 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Mazda CX-5 Touring
VIN: JM3KE2CY2G0914873

2 Required Safety Operations

There are 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning

Optional ADAS Features

Forward Collision Mitigation
Rear Parking Sensors

Safety



1. Seat Weight Sensor

- **Occupant Sensor Calibration (DTC Inspection & Calibration)**

The 2016 Mazda CX-5 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/55189/guid/natk16cx5ke-SM1217062_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/55189/component/3504/itype/387/nonstandard/12672/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2016 Mazda CX-5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Mazda/Pre-_and_Post-Repair_Scanning.htm

January 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Audi Q5 (Trim Not Selected)
VIN: WA1BNAFY7J2033364

1 Required Steering Operation 3 Required Safety Operations

There are 1 Steering and 3 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Audi Pre Sense City - Forward Collision Mitigation
Audi Pre Sense City - Pedestrian Impact Prevention
Audi Side Assist
Front and Rear Parking Sensors
Rear Camera

Optional ADAS Features

Audi Pre Sense Rear
Rear Collision Mitigation

Steering

1. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2018 Audi Q5 repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57892/component/3399/itype/376/nonstandard/115082/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57892/component/3399/itype/376/nonstandard/115081/selfRefLink/false>

Safety

2. Headlight Assembly - Programming Required if Attached Control Modules are also Replaced

- **Programming (Headlamp Control Module Activation)**

The 2018 Audi Q5 repair manual states that a operation is required for the Headlight Assembly - Programming Required if Attached Control Modules are also Replaced when the following occurs:

- Headlamp is replaced (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

[https://erwin.audiusa.com/erwin/articleProperties.do?
action=showDocument&articleId=175113](https://erwin.audiusa.com/erwin/articleProperties.do?action=showDocument&articleId=175113)

OEM procedure requirement:

[https://my.alldata.com/repair/#/repair/article/57892/
component/898/itype/401/nonstandard/113423/
selfRefLink/false](https://my.alldata.com/repair/#/repair/article/57892/component/898/itype/401/nonstandard/113423/selfRefLink/false)

3. Seatbelt System

- **Check Installation Angle (Seatbelts Condition and Function Check)**

The 2018 Audi Q5 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

[https://my.alldata.com/repair/#/repair/article/57892/guid/na-
ad2018-2020q5_fyb-en-US-A-A005A022521_americ-X-0S851RK5HOC_html#X-0S851RK5HOC](https://my.alldata.com/repair/#/repair/article/57892/guid/na-ad2018-2020q5_fyb-en-US-A-A005A022521_americ-X-0S851RK5HOC_html#X-0S851RK5HOC)

OEM procedure requirement:

[https://my.alldata.com/repair/#/repair/article/57892/
component/1285/itype/383/nonstandard/114564/
selfRefLink/false](https://my.alldata.com/repair/#/repair/article/57892/component/1285/itype/383/nonstandard/114564/selfRefLink/false)

4. Vehicle Electronics

- OEM Pre-Scan (Airbag Control Module Crash Entry Check)
- Inspection (Seatbelts Condition and Function Check)

The 2018 Audi Q5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57892/component/6978/itype/376/nonstandard/114561/selfRefLink/false>

January 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Volvo XC90 Momentum
VIN: YV4A22PK4K1498473

1 Required Safety Operation

There is 1 Safety that Volvo requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
BLIS - Blind Spot Warning
City Safety
Lane Departure Prevention
Pedestrian Impact Prevention
Rear Cross-Traffic Alert
Traffic Sign Recognition

Optional ADAS Features

Automated Parking Assistance
Front Mounted Camera
Head-Up Display
Rear Camera
Rear Parking Sensors
Right-Side Camera
Surround-View Monitor

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2019 Volvo XC90 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Volvo/Pre_Post_Scanning.htm



January 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Volkswagen Atlas 3.6L V6 SEL
VIN: 1V2MR2CA0JC549266

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Blind Spot Warning
Front and Rear Parking Sensors
Front Assist with Automatic Emergency Braking
Lane Assist
Pedestrian Impact Prevention
Rear Camera
Rear Collision Mitigation

ADAS

1. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go and Front Assist with Automatic Emergency Braking on this vehicle.

The 2018 Volkswagen Atlas repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57669/guid/vw2018-2021cax-en-US-V-K0059321421_americ-X-5YLQ0XHN7CB_html#X-5YLQ0XHN7CB

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57669/component/4037/itype/401/nonstandard/212243/selfRefLink/true>

Steering



2. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2018 Volkswagen Atlas repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57669/component/6978/itype/376/nonstandard/210877/selfRefLink/false>



Safety

3. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2018 Volkswagen Atlas repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57669/component/1285/itype/383/nonstandard/211377/selfRefLink/false>



4. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2018 Volkswagen Atlas repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57669/component/6978/itype/376/nonstandard/210877/selfRefLink/false>



January 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Hyundai Accent Preferred
VIN: 3KPC25A68LE094163

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2020 Hyundai Accent repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

January 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Tesla Model 3 Long Range
VIN: 5YJ3E1EB0NF312150

1 Required ADAS Operation

There is 1 ADAS that Tesla requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Following Distance Alert
Forward Collision Mitigation
Front Mounted Camera
Lane Departure Prevention
Pedestrian Impact Prevention
Rear Camera
Rear Collision Warning
Right-Side Camera
Surround-View Monitor
Traffic-Aware Cruise Control

Optional ADAS Features

Autopark
Autosteer with Auto Lane Change
Front and Rear Parking Sensors
Traffic Sign Recognition
Traffic Sign Recognition with Speed Limiter

ADAS

1. Front Radar

- **Firmware update (if necessary) (Firmware Update)**
- **Dynamic Calibration (Service Radar Alignment)**

The Front Radar is responsible for Traffic-Aware Cruise Control on this vehicle.

The 2022 Tesla Model 3 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 2)
- Front bumper is repaired (Line number 2 and 3)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://service.teslamotors.com/protected-doc/Model3/ServiceManual/index.html#GUID-79FC485C-B821-4E33-8209-0D49F4C5F38F>

January 17, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Honda Pilot EX-L Navi
VIN: 5FNYF6H71KB502087

4 Required ADAS Operations 2 Required Safety Operations

There are 4 ADAS and 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Front and Rear Parking Sensors
Lane Keeping Assist System
Rear Camera
Right-Side Camera

ADAS

1. Front Radar

- **Vertically Align Sensor (Vertical Aiming)**

- **Static Calibration (Horizontal Aiming)**

The Front Radar is responsible for Adaptive Cruise Control, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2019 Honda Pilot repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1)
- Front bumper (if damaged within 300mm of radar) is replaced (Line number 2)
- Grille (if damaged within 300mm of radar) is replaced (Line number 13)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 20 and 31)
- Door (if intrusion beam is damaged) is replaced (Line number 55)

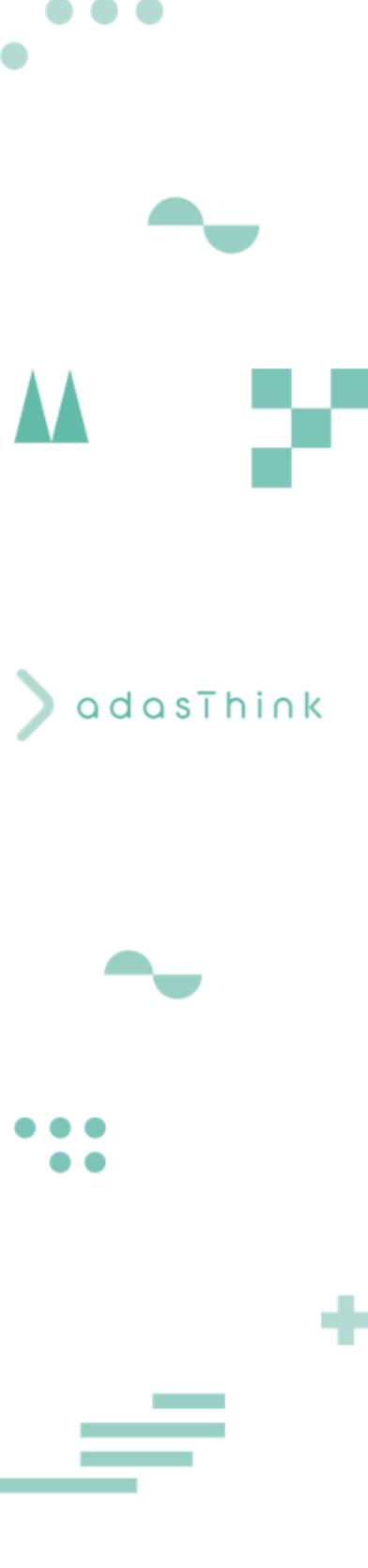
Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59196/component/1283/itype/387/nonstandard/13239/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>



2. Honda LaneWatch Camera

- **Static Calibration (LaneWatch Camera Aiming)**

The Honda LaneWatch Camera is responsible for Right-Side Camera on this vehicle.

The 2019 Honda Pilot repair manual states that a operation is required for the Honda LaneWatch Camera when the following occurs:

- Right Front Door is installed (Line number 38)
- Right Side Mirror is installed (Line number 42)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59196/component/8414/itype/387/nonstandard/13259/selfRefLink/false>

3. Parking Sensors - Front

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Front is responsible for Front and Rear Parking Sensors on this vehicle.

The 2019 Honda Pilot repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1, 2, and 21)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59196/component/871/itype/387/nonstandard/13235/selfRefLink/false>

4. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System on this vehicle.

The 2019 Honda Pilot repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 20 and 31)
- Door (if intrusion beam is damaged) is replaced (Line number 55)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59196/component/1283/itype/387/nonstandard/13054/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

Safety

5. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2019 Honda Pilot repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59196/component/6978/itype/383/nonstandard/13127/selfRefLink/false>

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2019 Honda Pilot repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

January 13, 2023

Level5drive Likenew Group
180 Sheldon Drive
Unit #3
Cambridge, ON, N1R 6V1

adasThink Vehicle Report

Vehicle: 2020 Acura MDX Tech
VIN: 5J8YD4H41LL801028

2 Required Safety Operations

There are 2 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Information System
Collision Mitigation Braking System
Front and Rear Parking Sensors
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Monitor

Safety



1. Seat Weight Sensor

- **Operation Check (Front Passenger Weight Sensor Output Check After a Vehicle Collision)**

The 2020 Acura MDX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60724/component/3504/itype/383/nonstandard/12549/selfRefLink/true>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2020 Acura MDX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

January 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Toyota RAV4 XLE
VIN: 2T3R1RFV7KC030494

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Pre Collision System with Pedestrian Detection
Rear Camera
Rear Cross-Traffic Alert
Toyota Safety Sense (TSS) 2.0

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Dynamic Radar Cruise Control, Pre Collision System with Pedestrian Detection, and Toyota Safety Sense (TSS) 2.0 on this vehicle.

The 2019 Toyota RAV4 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 3)
- Front bumper is installed (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60196/guid/nty2019-2022rav4-RM10000001ENPO_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60196/component/7309/itype/401/nonstandard/120186/selfRefLink/false>

Safety

2. Seat Weight Sensor

- **Reset (Zero Point Calibration)**

The 2019 Toyota RAV4 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60196/component/1236/itype/387/nonstandard/117923/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60196/component/611/itype/15/nonstandard/120929/selfRefLink/false>

3. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2019 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60196/component/465/itype/15/nonstandard/114942/selfRefLink/false>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2019 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



January 13, 2023

Level5drive Likenew Group
180 Sheldon Drive
Unit #3
Cambridge, ON, N1R 6V1

adasThink Vehicle Report

Vehicle: 2017 Subaru Outback Touring
VIN: 4S4BSFTCXH3408734

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Blind Spot Detection
EyeSight - Forward Collision Mitigation
Lane Keep Assist
Rear Camera
Rear Collision Mitigation

ADAS

1. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Camera adjustment and function check)

The Windshield Camera(s) is responsible for EyeSight - Forward Collision Mitigation and Lane Keep Assist on this vehicle.

The 2017 Subaru Outback repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56955/guid/nasb17legacy-s936a40e45_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56955/component/1283/itype/15/nonstandard/11323/selfRefLink/false>

Steering



2. Vehicle Dynamic Control

- **Midpoint Setting (VDC Control Module Adjustment)**

The 2017 Subaru Outback repair manual states that a operation is required for the Vehicle Dynamic Control when the following occurs:

- Four Wheel Alignment is repaired (Line number 39)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56955/component/1026/itype/5/nonstandard/13670/selfRefLink/false>

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Subaru Outback repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre-_and_Post-_Scanning_of_Collision_Vehicles.htm

4. Vehicle Electronics

- **Inspection (Safety System Inspection After a Collision)**

The 2017 Subaru Outback repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56955/component/6978/itype/376/nonstandard/14597/selfRefLink/false>



January 13, 2023

Level5drive Likenew Group
180 Sheldon Drive
Unit #3
Cambridge, ON, N1R 6V1

adasThink Vehicle Report

Vehicle: 2019 Toyota RAV4 XLE
VIN: 2T3R1RFV7KC030494

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Blind Spot Warning
- Dynamic Radar Cruise Control
- Lane Departure Alert with Steering Assist
- Pre Collision System with Pedestrian Detection
- Rear Camera
- Rear Cross-Traffic Alert
- Toyota Safety Sense (TSS) 2.0

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Dynamic Radar Cruise Control, Pre Collision System with Pedestrian Detection, and Toyota Safety Sense (TSS) 2.0 on this vehicle.

The 2019 Toyota RAV4 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 3)
- Front bumper is installed (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60196/guid/nty2019-2022rav4-RM10000001ENPO_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60196/component/7309/itype/401/nonstandard/120186/selfRefLink/false>

Safety



2. Seat Weight Sensor

- **Reset (Zero Point Calibration)**

The 2019 Toyota RAV4 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60196/component/1236/itype/387/nonstandard/117923/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60196/component/611/itype/15/nonstandard/120929/selfRefLink/false>

3. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2019 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60196/component/465/itype/15/nonstandard/114942/selfRefLink/false>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2019 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



January 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Honda Civic LX
VIN: SHHFK7H21JU307696

1 Required Steering Operation 3 Required Safety Operations

There are 1 Steering and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Steering

1. Vehicle Stability Assist Sensor

- Reset (VSA Sensor Neutral Position Memorization)

The 2018 Honda Civic repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 31)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/58209/guid/nah18CIVIC_TBA-R001644_enu_html

Safety

2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2018 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58208/component/6978/itype/383/nonstandard/103252/selfRefLink/false>

3. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2018 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58208/guid/nahn18CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58208/component/611/itype/15/nonstandard/102316/selfRefLink/false>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)

The 2018 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



January 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Acura TLX w/Technology Pkg
VIN: 19UUB3F59JA801071

2 Required Safety Operations

There are 2 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Blind Spot Information System
Collision Mitigation Braking System
Front and Rear Parking Sensors
Lane Keeping Assist System
Rear Camera
Rear Cross-Traffic Monitor

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger Weight Sensor Output Check After a Vehicle Collision)**

The 2018 Acura TLX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57706/component/6978/itype/383/nonstandard/103436/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2018 Acura TLX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

January 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Jeep Grand Cherokee Summit
VIN: 1C4RJFJT2MC717357

1 Required Safety Operation

There is 1 Safety that Jeep requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Blind Spot Warning
Forward Collision Mitigation
Lane Keep Assist
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2021 Jeep Grand Cherokee repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-
document.pdf](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf)



January 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Acura MDX w/Advance Pkg
VIN: 5J8YD4H8XKL802616

4 Required ADAS Operations
2 Required Steering Operations
3 Required Safety Operations

There are 4 ADAS, 2 Steering, and 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Blind Spot Information System
Collision Mitigation Braking System
Front and Rear Parking Sensors
Front Mounted Camera
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Cross-Traffic Monitor
Right-Side Camera
Surround View rear mounted camera
Surround-View Monitor

ADAS

1. Front Radar

- **Vertically Align Sensor (Vertical Aiming)**

- **Static Calibration (Horizontal Aiming)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go and Collision Mitigation Braking System on this vehicle.

The 2019 Acura MDX repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 3)
- Front bumper (if damaged within 300mm of radar) is replaced (Line number 4)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 35 and 47)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59540/guid/na-au19MDX_TZ5-R007000_enu_html

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/acura/position-statements/43998.pdf>

2. Parking Sensors - Front

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Front is responsible for Front and Rear Parking Sensors on this vehicle.

The 2019 Acura MDX repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 3, 4, and 13)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59540/component/871/itype/387/nonstandard/12928/selfRefLink/false>

3. Surround-View Monitor Cameras

- **Operation Check (Multi View Camera Picture Inspection)**
- **Static Calibration (Multi View Camera Aiming)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera, Surround View rear mounted camera, and Surround-View Monitor on this vehicle.

The 2019 Acura MDX repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 3, 4, and 13)
- Side Mirror is installed (Line number 53)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/59540/guid/na-au19MDX_TZ5-R002832_enu_html

4. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System and Lane Keeping Assist System on this vehicle.

The 2019 Acura MDX repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 35 and 47)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59540/guid/na-au19MDX_TZ5-R006999_enu_html

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/acura/position-statements/43998.pdf>

Steering

5. Steering Angle Sensor

- **Reset (Steering Angle Sensor Neutral Position Clear)**

The 2019 Acura MDX repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 69)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59540/guid/na-au19MDX_TZ5-R002344_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59540/component/3399/itype/376/nonstandard/13030/selfRefLink/false>

6. Vehicle Stability Assist Sensor

- **Reset (VSA Sensor Neutral Position Memorization)**

The 2019 Acura MDX repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 69)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59540/guid/na-au19MDX_TZ5-R000852_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59540/component/3399/itype/376/nonstandard/13030/selfRefLink/false>

Safety

7. Headlight Assembly

- **Learn (Headlight Initial Position Learning Procedure)**

The 2019 Acura MDX repair manual states that a operation is required for the Headlight Assembly when the following occurs:

- Headlamp is installed (Line number 14, 15, 17, and 36)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59540/component/536/itype/387/nonstandard/12382/selfRefLink/false>

8. Seat Weight Sensor

- **Operation Check (Front Passenger Weight Sensor Output Check After a Vehicle Collision)**

The 2019 Acura MDX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59540/component/6978/itype/383/nonstandard/12890/>

selfRefLink/false

9. Vehicle Electronics

• Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)

The 2019 Acura MDX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



January 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Mazda Mazda3 Grand Touring
VIN: JM1BN1W30H1154456

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Head-Up Display
Rear Camera
Rear Cross-Traffic Alert
Smart Brake Support
Smart City Brake Support

Optional ADAS Features

Adaptive Cruise Control
Lane Departure Warning
Lane Keep Assist
Rear Parking Sensors
Traffic Sign Recognition

ADAS



1. Blind Spot Radar

- **Static Calibration (Blind Spot Monitoring (BSM) Radar Aiming)**

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2017 Mazda Mazda3 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is replaced (Line number 6)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/57000/guid/natk17mazda3bn-SM1301324_html

Safety

2. Seat Weight Sensor

- 
- **Occupant Sensor Calibration (DTC Inspection & Calibration)**

The 2017 Mazda Mazda3 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56999/guid/natk17mazda3bn-SM1300169_html



OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56999/component/3504/itype/387/nonstandard/12362/selfRefLink/false>

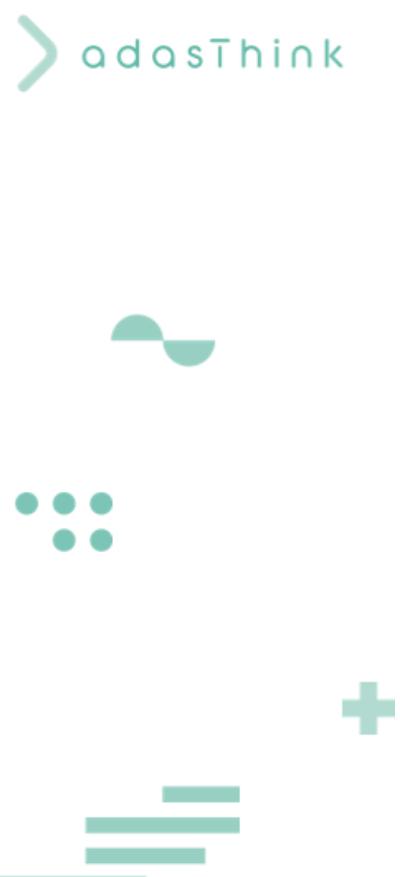
3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2017 Mazda Mazda3 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement:

https://my.alldata.com/CoIRef/Position_Statements/Mazda/Pre-_and_Post-Repair_Scanning.htm

January 13, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Honda Odyssey Touring
VIN: 5FNRL5H93HB503047

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision Warning
Front and Rear Parking Sensors
Lane Departure Warning
Rear Camera
Right-Side Camera

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2017 Honda Odyssey repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57363/component/6978/itype/383/nonstandard/15402/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2017 Honda Odyssey repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



January 12, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Ford Fusion SE
VIN: 3FA6P0H98DR287317

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control

Optional ADAS Features

Automated Parking Assistance
Blind Spot Warning
Forward Collision Warning
Lane Departure Prevention
Rear Camera
Rear Parking Sensors

ADAS

1. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**
- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2013 Ford Fusion repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/52555/component/1246/itype/5/nonstandard/1746325/selfRefLink/false>

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2013 Ford Fusion repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61360/component/1285/itype/377/nonstandard/110961/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61360/component/6978/itype/376/nonstandard/110309/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Ford Fusion repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

January 12, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Lexus LX Base (A6)
VIN: JTJHY7AX7D4084183

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Lexus requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Adaptive Cruise Control
Forward Collision Warning
Front and Rear Parking Sensors
Front Mounted Camera

ADAS

1. Surround-View Monitor Cameras

- **Static Calibration (Panoramic View Monitor System - Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2013 Lexus LX repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Side Mirror is installed (Line number 27)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/51955/component/1283/itype/387/nonstandard/572009/selfRefLink/true>

Safety

2. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2013 Lexus LX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/51955/component/1236/itype/387/nonstandard/496869/>

selfRefLink/false

3. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2013 Lexus LX repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/51955/component/465/itype/15/nonstandard/514097/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Health Check Diagnostic Scans)**

The 2013 Lexus LX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

January 12, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Ford Escape SE
VIN: 1FMCU9GX2EUC95431

- 1 Required ADAS Operation**
- 2 Required Safety Operations**
- 1 Required Operational Operation**

There are 1 ADAS, 2 Safety, and 1 Operational that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Optional ADAS Features

Rear Collision Warning

ADAS

1. Parking Sensors - Rear

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2014 Ford Escape repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is replaced (Line number 23, 30, and 36)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/53250/guid/nafm14escap-g1616336_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53250/component/7300/itype/401/nonstandard/110870/selfRefLink/true>

Safety

2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2014 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/53250/guid/nafm14escap-g1883607_html

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2014 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

Operational

4. Power Trunk Lid/Liftgate

• Initialization (Power Liftgate Initialization)

The 2014 Ford Escape repair manual states that a operation is required for the Power Trunk Lid/Liftgate when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/53250/component/715/itype/387/nonstandard/110181/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53250/component/715/itype/401/nonstandard/110183/selfRefLink/true>



January 12, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2023 Acura RDX w/A-Spec Package
VIN: 5J8TC2H63PL800472

3 Required Safety Operations

There are 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Warning
Collision Mitigation Braking System
Front and Rear Parking Sensors
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Monitor
Traffic Sign Recognition

Safety



1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)**

The 2023 Acura RDX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/service_info.html?package=61TJB&lang=enu&sie=R004535_enu



2. SRS Unit

- **Inspection (Read SRS Deployment History)**

The 2023 Acura RDX repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/service_info.html?package=61TJB&lang=enu&sie=T003209_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/service_info.html?package=61TJB&lang=enu&sie=G004529_enu

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2023 Acura RDX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



January 12, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Honda Odyssey Touring
VIN: 5FNRL6H88KB510564

4 Required ADAS Operations 3 Required Safety Operations

There are 4 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Blind Spot Warning
- Collision Mitigation Braking System
- Collision Mitigation Braking System with Forward Collision Warning
- Front and Rear Parking Sensors
- Lane Keeping Assist System
- Rear Camera
- Rear Cross-Traffic Alert

ADAS

1. Front Radar

- **Vertically Align Sensor (Vertical Radar Aim)**
- **Static Calibration (Horizontal Radar Aim)**

The Front Radar is responsible for Adaptive Cruise Control, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2019 Honda Odyssey repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1 and 2)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 16)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59120/guid/nah19ODYSSEY_THR-R005157_enu_html

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>



2. Parking Sensors - Front

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Front is responsible for Front and Rear Parking Sensors on this vehicle.

The 2019 Honda Odyssey repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/59120/guid/nah19ODYSSEY_THR-R003280_enu_html

3. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors on this vehicle.

The 2019 Honda Odyssey repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 22)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/59120/guid/nah19ODYSSEY_THR-R003280_enu_html

4. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System on this vehicle.

The 2019 Honda Odyssey repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 16)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59120/component/1283/itype/387/nonstandard/13487/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

Safety

5. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2019 Honda Odyssey repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59120/component/6978/itype/383/nonstandard/13459/selfRefLink/false>

6. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2019 Honda Odyssey repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59120/guid/nahn19ODYSSEY_THR-T004552_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59120/component/611/itype/15/nonstandard/12808/selfRefLink/false>

7. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2019 Honda Odyssey repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



January 12, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Kia Sportage LX
VIN: KNDPMCAC8M7893013

1 Required Steering Operation 1 Required Safety Operation

There are 1 Steering and 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision Mitigation
Forward Collision-Avoidance Assist with Pedestrian Impact Prevention
Lane Keeping Assist
Rear Camera

Optional ADAS Features

Blind Spot Warning
Rear Cross-Traffic Alert

Steering

1. Steering Angle Sensor

• Reset (Steering Angle Sensor Calibration)

The 2021 Kia Sportage repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 52)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62412/component/3915/itype/376/nonstandard/24613/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62412/component/3399/itype/376/nonstandard/24656/selfRefLink/false>

Safety

2. Vehicle Electronics

• Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2021 Kia Sportage repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



January 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Ram 1500 Big Horn
VIN: 1C6RR7GT8DS528134

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2013 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

January 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Toyota C-HR (Trim Not Selected)
VIN: JTNKHMBXXL1082722

1 Required Steering Operation 3 Required Safety Operations

There are 1 Steering and 3 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Full-Speed Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Pre-Collision System with Pedestrian Detection
Rear Camera
Toyota Safety Sense P

Optional ADAS Features

Blind Spot Monitor
Rear Cross-Traffic Alert

Steering

1. Yaw Rate and Acceleration Sensor

- **Reset (Yaw Rate and Acceleration Sensor Zero Point Calibration)**

The 2020 Toyota C-HR repair manual states that a operation is required for the Yaw Rate and Acceleration Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 21)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61249/component/1236/itype/387/nonstandard/112666/selfRefLink/false>

Safety

2. Seat Weight Sensor

- **Reset (Zero Point Calibration)**

The 2020 Toyota C-HR repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61249/component/1236/itype/387/nonstandard/112666/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61249/component/611/itype/15/nonstandard/116149/selfRefLink/false>

3. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2020 Toyota C-HR repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61249/component/465/itype/15/nonstandard/112887/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Toyota C-HR repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm

January 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Nissan Rogue SV
VIN: 5N1AT2MT7GC819703

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Blind Spot Warning
Front Mounted Camera
Rear Camera
Rear Collision Warning

ADAS

1. Surround-View Monitor Cameras

- **Static Calibration (Calibrating Camera Image)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2016 Nissan Rogue repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Side Mirror is installed (Line number 1 and 7)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/55693/component/1299/itype/387/nonstandard/17772/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/55693/component/3899/itype/387/nonstandard/18048/selfRefLink/false>

Safety

2. Seatbelt System

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**

- **Inspection (Seatbelt Inspection)**

The 2016 Nissan Rogue repair manual states that a operation is required for the Seatbelt System when the



following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55693/component/1285/itype/383/nonstandard/13077/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2016 Nissan Rogue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/nissan/position-statements/24715.pdf>

January 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Toyota RAV4 LE
VIN: 2T3B1RFVXKC024495

3 Required Safety Operations

There are 3 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Full-Speed Dynamic Radar Cruise Control
Lane Departure Alert
Lane Tracing Assist
Pre-Collision System with Pedestrian Detection
Rear Camera
Road Sign Assist
Toyota Safety Sense (TSS) 2.0

Optional ADAS Features

Blind Spot Monitor with Lane Change Assist
Rear Cross-Traffic Alert

Safety



1. Seat Weight Sensor

- **Reset (Zero Point Calibration)**

The 2019 Toyota RAV4 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60196/component/1236/itype/387/nonstandard/117923/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60196/component/611/itype/15/nonstandard/120929/selfRefLink/false>

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2019 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60196/component/465/itype/15/nonstandard/114942/selfRefLink/false>

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2019 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



January 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Land Rover Range Rover Sport HSE Dynamic
VIN: SALWR2SE0LA743723

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Land Rover requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Clear Exit Monitor
Emergency Braking
Traffic Sign Recognition with Adaptive Speed Limiter

Optional ADAS Features

Active Blind Spot System
Adaptive Cruise Control with Steering Assist
Adaptive Cruise Control with Stop and Go
Advanced Tow Assist
Automated Parking Assistance
Blind Spot Warning
Front and Rear Parking Sensors
Front Mounted Camera
Head-Up Display
Lane Keep Assist
Rear Camera
Rear Collision Mitigation
Rear Collision Warning
Right-Side Camera

Surround-View Monitor

ADAS

1. Windshield Camera(s)

- **Dynamic Calibration (Windshield Camera Calibration)**

The Windshield Camera(s) is responsible for Emergency Braking and Lane Keep Assist on this vehicle.

The 2020 Land Rover Range Rover Sport repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is replaced (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61048/component/6798/itype/401/nonstandard/111169/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61048/component/735/itype/401/nonstandard/111605/selfRefLink/true>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Land Rover Range Rover Sport repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FJaguar%2C_Land_Rover%2FPre___Post_Scanning.htm



January 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Kia Sedona LX
VIN: KNDMB5C17H6246310

1 Required Steering Operation 1 Required Safety Operation

There are 1 Steering and 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Front and Rear Parking Sensors
Rear Camera

Steering

1. TPMS

- **Programming (Tire Pressure Sensor Registration)**

The 2017 Kia Sedona repair manual states that a operation is required for the TPMS when the following occurs:

- TPMS Sensor is replaced (Line number 17)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56976/component/2353/itype/376/nonstandard/3100255>

selfRefLink/true

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Kia Sedona repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



January 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Mercedes-Benz GLC-Class - 253 GLC 300
VIN: W1N0G8EB1NV338255

1 Required Safety Operation

There is 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision Mitigation
PARKTRONIC with Active Parking Assist
PRE-SAFE Brake with Pedestrian Recognition
Rear Camera
Rear Cross-Traffic Alert

Optional ADAS Features

Active Blind Spot Assist
Active Brake Assist
Active Lane Keeping Assist
Active Speed Limit Assist
Blind Spot Warning
DISTRONIC PLUS Cruise Control
DISTRONIC PLUS with Steering Assist
Front Cross-Traffic Alert
Front Mounted Camera
Head-Up Display
Right-Side Camera
Surround-View Monitor
Traffic Sign Recognition with Speed Limiter

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2022 Mercedes-Benz GLC-Class - 253 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>



January 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 BMW X5 (G05 SUV & F95 X5M) xDrive40i
VIN: 5UXCR6C01M9F45192

2 Required Safety Operations

There are 2 Safety that BMW requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Blind Spot Detection
City Collision Mitigation
Frontal Collision Warning with City Collision Mitigation
Rear Cross-Traffic Alert
Traffic Sign Recognition

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Evasion Assist System
Front Mounted Camera
Head-Up Display
Lane Departure Prevention
Lane Departure Warning
Park Distance Control - Front and Rear Parking Sensors
Parking Assistant Plus - Automated Parking Assistance
Rear Camera
Rear Camera
Right-Side Camera
Surround-View Monitor
Traffic Jam Assistant with Automatic Lane Change

Safety

1. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2021 BMW X5 (G05 SUV & F95 X5M) repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61026/component/1285/itype/383/nonstandard/113540/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 BMW X5 (G05 SUV & F95 X5M) repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW%2C_Mini%2FPreliminary_Diagnostics_For_Collision_Repair.htm

January 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2023 Audi A4 S line Premium Plus
VIN: WAUEAAF46PN001991

2 Required ADAS Operations
1 Required Steering Operation
2 Required Safety Operations

There are 2 ADAS, 1 Steering, and 2 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Audi Active Lane Assist
Audi Pre Sense Basic
Audi Pre Sense City - Pedestrian Impact Prevention
Audi Pre Sense Rear
Audi Side Assist
Front and Rear Parking Sensors
Front Mounted Camera
Rear Camera
Right-Side Camera
Surround-View Monitor
Traffic Jam Assist

ADAS



1. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go and Traffic Jam Assist on this vehicle.

The 2023 Audi A4 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 4)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60074/component/1246/itype/5/nonstandard/115598/selfRefLink/false>

2. Surround-View Monitor Cameras

- **Static Calibration (Peripheral Camera Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2023 Audi A4 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 4)
- Front Door is installed (Line number 10)
- Side Mirror is installed (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60074/component/1283/itype/387/nonstandard/116047/selfRefLink/false>



OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/60074/guid/na-adA4-S4_8W-en-US-A-A005A012121_americ-X-84Z7CX_html

Steering

3. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2023 Audi A4 repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60074/component/3399/itype/376/nonstandard/115582/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60074/component/3399/itype/376/nonstandard/115581/selfRefLink/false>

Safety

4. Seatbelt System

- **Check Installation Angle (Seatbelts Condition and Function Check)**

The 2023 Audi A4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60074/guid/nadaA4-S4_8W-en-US-A-A005A014221_americ-X-0S851RK5HOC_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60074/component/1285/itype/383/nonstandard/114255/selfRefLink/false>

5. Vehicle Electronics

- **OEM Pre-Scan (Airbag Control Module Crash Entry Check)**

- **Inspection (Seatbelts Condition and Function Check)**

The 2023 Audi A4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60074/>

component/6978/itype/376/nonstandard/114252/
selfRefLink/false



January 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Hyundai Tucson Premium
VIN: KM8J3CA4XHU284817

1 Required Steering Operation 1 Required Safety Operation

There are 1 Steering and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Detection
Rear Camera
Rear Collision Warning

Steering

1. Steering Angle Sensor

- **Midpoint Setting (ASP Calibration)**

The 2017 Hyundai Tucson repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Front End Alignment is repaired (Line number 48)
- Four Wheel Alignment is repaired (Line number 48)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

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<https://my.alldata.com/repair/#/repair/article/56962/component/3915/itype/376/nonstandard/3101237/selfRefLink/false>

OEM procedure requirement:

<https://static.nhtsa.gov/odi/tsbs/2020/MC-10172142-0001.pdf>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2017 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

January 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Volkswagen Golf 2.0T w/DCC & Navigation
(DSG)
VIN: WVWVA7AU9KW135278

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Blind Spot Warning
- Front and Rear Parking Sensors
- Front Assist with Automatic Emergency Braking
- Lane Departure Prevention
- Pedestrian Monitoring
- Rear Camera
- Rear Collision Mitigation

Steering

1. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2019 Volkswagen Golf repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60003/component/3399/itype/376/nonstandard/214361/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60003/component/6978/itype/376/nonstandard/214166/selfRefLink/true>

Safety

2. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2019 Volkswagen Golf repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60003/guid/nawv2018-2021au2-en-US-V-K0059241221_amERICA-X-

HX0V7WWMN BG_html#X-HX0V7WWMN BG

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60003/component/1285/itype/383/nonstandard/213742/selfRefLink/false>

3. Vehicle Electronics

- OEM Pre-Scan (Vehicle Electronics Inspection)

The 2019 Volkswagen Golf repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60003/component/6978/itype/376/nonstandard/214166/selfRefLink/true>



January 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Mercedes-Benz S-Class - 217 & 223 S 580
VIN: W1K6G7GB0MA064020

2 Required ADAS Operations 1 Required Safety Operation

There are 2 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot Assist
- Active Brake Assist
- Active Distance Assist DISTRONIC
- Active Lane Keeping Assist
- Active Speed Limit Assist
- Automated Parking Assistance
- Evasion Assist System
- Front Mounted Camera
- Pedestrian Impact Prevention
- Rear Camera
- Rear Collision Mitigation
- Right-Side Camera
- Surround-View Monitor

Optional ADAS Features

Head-Up Display

ADAS



1. Mercedes Distronic Sensor (B29)

- **Dynamic Calibration (Distronic Sensor Calibration)**

The Mercedes Distronic Sensor (B29) is responsible for Active Blind Spot Assist on this vehicle.

The 2021 Mercedes-Benz S-Class - 217 & 223 repair manual states that a operation is required for the Mercedes Distronic Sensor (B29) when the following occurs:

- Front bumper is replaced (Line number 3)
- Four Wheel Alignment is repaired (Line number 93)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61432/component/4037/itype/401/nonstandard/111320/selfRefLink/false>

2. Surround-View Monitor Cameras

- **Dynamic Calibration (Calibration of 360 Degree Camera System)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2021 Mercedes-Benz S-Class - 217 & 223 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 3)
- Right Front Door is installed (Line number 24)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61432/>

component/7284/itype/5/nonstandard/111944/selfRefLink/false

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61432/component/7309/itype/401/nonstandard/112199/selfRefLink/false>

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Mercedes-Benz S-Class - 217 & 223 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>

January 11, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Nissan Pathfinder SV
VIN: 5N1AR2MN2FC618984

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Steering

1. Steering Angle Sensor

- **Reset (Steering Angle Sensor Neutral Point Adjustment)**

The 2015 Nissan Pathfinder repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Four Wheel Alignment is repaired

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54827/component/1197/itype/387/nonstandard/819084/selfRefLink/true>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/nissan/position-statements/24721.pdf>

Safety

2. Seatbelt System

- **Inspection (Seatbelt Inspection)**
- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**
- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

The 2015 Nissan Pathfinder repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54827/component/465/itype/376/nonstandard/681627/selfRefLink/false>

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2015 Nissan Pathfinder repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/nissan/position-statements/24715.pdf>



January 10, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Dodge Grand Caravan Premium Plus
VIN: 2C4RDGCG9LR214573

1 Required Safety Operation

There is 1 Safety that Dodge requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

ParkSense - Rear Parking Sensors
Rear Camera

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2020 Dodge Grand Caravan repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-)

document.pdf



> adasThink



January 10, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Hyundai Elantra GL SE
VIN: KMHD84LF3JU675042

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert

ADAS

1. Blind Spot Radar

- Dynamic Calibration (BSD Unit Alignment)
- Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Cross-Traffic Alert on this vehicle.

The 2018 Hyundai Elantra repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 30)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59153/component/7821/itype/376/nonstandard/3101658/selfRefLink/false>

Safety

2. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2018 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

January 10, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 BMW 5 Series (G30 Sedan) 530i xDrive
VIN: WBA13BJ02NWX41175

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that BMW requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot Detection
- City Collision Mitigation
- Lane Departure Prevention
- Park Distance Control - Front and Rear Parking Sensors
- Rear Camera
- Rear Collision Mitigation
- Traffic Sign Recognition

Optional ADAS Features

- Adaptive Cruise Control with Stop and Go
- Evasion Assist System
- Front Cross-Traffic Alert
- Frontal Collision Warning with City Collision Mitigation
- Head-Up Display

ADAS

1. Blind Spot Radar

- **Dynamic Calibration (Initialization of the SWW sensor system)**

The Blind Spot Radar is responsible for Active Blind Spot Detection on this vehicle.

The 2022 BMW 5 Series (G30 Sedan) repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 4 and 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

[https://ia801005.us.archive.org/11/items/
BMWTechnicalTrainingDocuments/
ST811%20F01%20Complete
%20Vehicle/06.4_F01%2520Active%2520Blind%2520Spot
%2520Detection%2520System.pdf](https://ia801005.us.archive.org/11/items/BMWTechnicalTrainingDocuments/ST811%20F01%20Complete%20Vehicle/06.4_F01%2520Active%2520Blind%2520Spot%2520Detection%2520System.pdf)

OEM procedure requirement:

[https://my.alldata.com/repair/#/repair/article/61989/
component/1283/itype/392/nonstandard/111782/
selfRefLink/false](https://my.alldata.com/repair/#/repair/article/61989/component/1283/itype/392/nonstandard/111782/selfRefLink/false)

Safety

2. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2022 BMW 5 Series (G30 Sedan) repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61989/component/1285/itype/383/nonstandard/112787/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 BMW 5 Series (G30 Sedan) repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW%2C_Mini%2FPreliminary_Diagnostics_For_Collision_Repair.htm

January 10, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Ram ProMaster City ST
VIN: ZFBHRFCB7K6M84308

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

ParkSense - Rear Parking Sensors
Rear Camera

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2019 Ram ProMaster City repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-)

document.pdf



January 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Honda Civic LX
VIN: 2HGFB2F4XFH022913

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Unit Operation Check)
- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2015 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54962/component/3504/itype/383/nonstandard/11306/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2015 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



January 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Ford Escape SE
VIN: 1FMCU9GX2EUC95431

- 1 Required ADAS Operation**
- 2 Required Safety Operations**
- 1 Required Operational Operation**

There are 1 ADAS, 2 Safety, and 1 Operational that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Optional ADAS Features

Rear Collision Warning

ADAS

1. Parking Sensors - Rear

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2014 Ford Escape repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is replaced (Line number 23, 30, and 36)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/53250/guid/nafm14escap-g1616336_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53250/component/7300/itype/401/nonstandard/110870/selfRefLink/true>

Safety

2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2014 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/53250/guid/nafm14escap-g1883607_html

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2014 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

Operational

4. Power Trunk Lid/Liftgate

• Initialization (Power Liftgate Initialization)

The 2014 Ford Escape repair manual states that a operation is required for the Power Trunk Lid/Liftgate when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/53250/component/715/itype/387/nonstandard/110181/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53250/component/715/itype/401/nonstandard/110183/selfRefLink/true>



January 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Ford Edge Titanium
VIN: 2FMPK4K96KBC66583

3 Required ADAS Operations 2 Required Safety Operations

There are 3 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Park Assist
- Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering
- Ford Co-Pilot360 - Automatic Emergency Braking
- Ford Co-Pilot360 - Blind Spot Information System
- Ford Co-Pilot360 - Lane-Keeping Assist
- Pedestrian Impact Prevention
- Rear Camera
- Rear Cross-Traffic Alert

Optional ADAS Features

- Evasion Assist System
- Front Mounted Camera
- Rear Parking Sensors

ADAS

1. Active Park Assist Sensors

- **Operation Check (Azimuth System Check)**

The Active Park Assist Sensors is responsible for Active Park Assist on this vehicle.

The 2019 Ford Edge repair manual states that a operation is required for the Active Park Assist Sensors when the following occurs:

- Front bumper is installed (Line number 1 and 8)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59252/guid/nafm19edge-g1737725_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59252/component/3716/itype/401/nonstandard/10105/selfRefLink/false>

2. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**

- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering on this vehicle.

The 2019 Ford Edge repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59252/guid/nafm19edge-g2011080_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

3. Parking Sensors - Front

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**

The Parking Sensors - Front is responsible for Active Park Assist on this vehicle.

The 2019 Ford Edge repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1 and 8)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59252/guid/nafm19edge-g1737070_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59252/component/7306/itype/402/nonstandard/11523/selfRefLink/false>

Safety

4. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2019 Ford Edge repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59252/component/1285/itype/377/nonstandard/11534/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Ford Edge repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

January 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Subaru Outback Touring
VIN: 4S4BSFTCXH3408734

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Blind Spot Detection
EyeSight - Forward Collision Mitigation
Lane Keep Assist
Rear Camera
Rear Collision Mitigation

ADAS

1. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Camera adjustment and function check)

The Windshield Camera(s) is responsible for EyeSight - Forward Collision Mitigation and Lane Keep Assist on this vehicle.

The 2017 Subaru Outback repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56955/guid/nasb17legacy-s936a40e45_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56955/component/1283/itype/15/nonstandard/11323/selfRefLink/false>

Steering



2. Vehicle Dynamic Control

- **Midpoint Setting (VDC Control Module Adjustment)**

The 2017 Subaru Outback repair manual states that a operation is required for the Vehicle Dynamic Control when the following occurs:

- Alignment - Four Wheel is repaired (Line number 39)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56955/component/1026/itype/5/nonstandard/13670/selfRefLink/false>

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Subaru Outback repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre-_and_-Post-_Scanning_of_Collision_Vehicles.htm

4. Vehicle Electronics

- **Inspection (Safety System Inspection After a Collision)**

The 2017 Subaru Outback repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56955/component/6978/itype/376/nonstandard/14597/selfRefLink/false>



January 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Hyundai Santa Fe Limited
VIN: 5XYZUDLA3DG020976

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2013 Hyundai Santa Fe repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

January 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Mercedes-Benz E-Class - 207 & 212 (Trim
Not Selected)
VIN: WDDHF9HB2EB033238

**2 Required ADAS Operations
1 Required Safety Operation**

There are 2 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

PARKTRONIC with Active Parking Assist
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Active Blind Spot Assist
Adaptive Cruise Control
Blind Spot Warning
Forward Collision Mitigation
Forward Collision Warning
Front Mounted Camera
Lane Departure Prevention
Lane Departure Warning
Pedestrian Impact Prevention
Rear Camera
Rear Collision Mitigation
Rear Collision Warning

ADAS

1. Active Park Assist Sensors

- **Operation Check (Active Park Assist Function Test)**

The Active Park Assist Sensors is responsible for PARKTRONIC with Active Parking Assist on this vehicle.

The 2014 Mercedes-Benz E-Class - 207 & 212 repair manual states that a operation is required for the Active Park Assist Sensors when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53430/component/7309/itype/401/nonstandard/1201554/selfRefLink/true>

2. Surround-View Monitor Cameras

- **Dynamic Calibration (Calibration of 360 Degree Camera System)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2014 Mercedes-Benz E-Class - 207 & 212 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1)
- Side Mirror is installed (Line number 27)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55859/component/754/itype/401/nonstandard/112464/>

selfRefLink/false

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55859/component/7309/itype/401/nonstandard/112437/>
selfRefLink/false

Safety

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2014 Mercedes-Benz E-Class - 207 & 212 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf](https://rts.i-car.com/images/pdf/oem-info/mercedes-benz-position-statements/26689.pdf)



January 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Volkswagen Jetta (Trim Not Selected)
VIN: 3VWC57BU9KM009154

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Front Assist with Automatic Emergency Braking
Pedestrian Monitoring
Rear Camera

Optional ADAS Features

Blind Spot Warning
Pedestrian Impact Prevention
Rear Collision Warning

ADAS

1. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Front Assist with Automatic Emergency Braking and Pedestrian Monitoring on this vehicle.

The 2019 Volkswagen Jetta repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 1, 2, and 11)
- Radiator Support is installed (Line number 54)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61626/component/7306/itype/401/nonstandard/210614/selfRefLink/false>

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61626/component/1246/itype/5/nonstandard/211198/selfRefLink/false>

Steering

2. Wheel Alignment

• **Wheel Alignment (Four Wheel Alignment)**

The 2019 Volkswagen Jetta repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61626/component/3399/itype/376/nonstandard/211186/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61626/component/6978/itype/376/nonstandard/211046/selfRefLink/true>

Safety

3. Seatbelt System

• **Inspection (Seatbelt Inspection and Function Test)**

The 2019 Volkswagen Jetta repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61626/guid/nawv2019-2020bu3-en-US-V-K0059078821_americas-X

HX0V7WWMN BG_html#X-HX0V7WWMN BG

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61626/component/1285/itype/383/nonstandard/211401/selfRefLink/false.nv.com/erwin/showArticleProperties.do?articleId=177175>

4. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2019 Volkswagen Jetta repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61626/component/6978/itype/376/nonstandard/211046/selfRefLink/true>



January 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Kia Sedona LX
VIN: KNDMB5C17H6246310

1 Required Steering Operation 1 Required Safety Operation

There are 1 Steering and 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Front and Rear Parking Sensors
Rear Camera

Steering

1. TPMS

- **Programming (Tire Pressure Sensor Registration)**

The 2017 Kia Sedona repair manual states that a operation is required for the TPMS when the following occurs:

- TPMS Sensor is replaced (Line number 17)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56976/component/2353/itype/376/nonstandard/3100255>

selfRefLink/true

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Kia Sedona repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



January 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Honda Pilot EX-L Navi
VIN: 5FNYF6H79KB507571

4 Required ADAS Operations 2 Required Safety Operations

There are 4 ADAS and 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Collision Mitigation Braking System
- Collision Mitigation Braking System with Forward Collision Warning
- Front and Rear Parking Sensors
- Lane Keeping Assist System
- Rear Camera
- Right-Side Camera

ADAS

1. Front Radar

- **Vertically Align Sensor (Vertical Aiming)**

- **Static Calibration (Horizontal Aiming)**

The Front Radar is responsible for Adaptive Cruise Control, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2019 Honda Pilot repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1)
- Front bumper (if damaged within 300mm of radar) is replaced (Line number 3)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 18 and 28)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59196/component/1283/itype/387/nonstandard/13239/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

2. Parking Sensors - Front

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Front is responsible for Front and Rear Parking Sensors on this vehicle.

The 2019 Honda Pilot repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1, 3, and 7)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59196/component/871/itype/387/nonstandard/13235/selfRefLink/false>

3. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors on this vehicle.

The 2019 Honda Pilot repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 40, 41, 42, 43, and 45)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59196/component/871/itype/387/nonstandard/13235/selfRefLink/false>

false

4. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System on this vehicle.

The 2019 Honda Pilot repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 18 and 28)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59196/component/1283/itype/387/nonstandard/13054/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

Safety

5. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2019 Honda Pilot repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59196/component/6978/itype/383/nonstandard/13127/selfRefLink/false>

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2019 Honda Pilot repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

January 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Hyundai Elantra Preferred w/Sun & Safety
Package
VIN: KMHD84LF6LU950356

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Collision Warning
Forward Collision-Avoidance Assist
Lane Keep Assist
Rear Camera
Rear Cross-Traffic Collision Warning

ADAS

1. Blind Spot Radar

- **Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)**
- **Dynamic Calibration (BSD Unit Alignment)**

The Blind Spot Radar is responsible for Blind Spot Collision Warning and Rear Cross-Traffic Collision Warning on this vehicle.

The 2020 Hyundai Elantra repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is replaced (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60782/component/7821/itype/376/nonstandard/24637/selfRefLink/false>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2020 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

January 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Hyundai Tucson SE
VIN: KM8J33A43HU461059

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Detection
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

• Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2017 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position->

statements/31340.pdf



January 9, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Mercedes-Benz G-Class - 463 AMG G 63
VIN: W1NYC7HJ4NX442285

2 Required ADAS Operations 1 Required Safety Operation

There are 2 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Brake Assist
- Active Brake Assist
- Active Distance Assist DISTRONIC
- Active Lane Keeping Assist
- Blind Spot Warning
- Front Mounted Camera
- PARKTRONIC with Active Parking Assist
- Rear Camera
- Rear Cross-Traffic Alert
- Right-Side Camera
- Surround-View Monitor
- Traffic Sign Recognition

ADAS

1. Rear Camera

- **Reset (Calibration of the Steering Angle Sensor)**
- **Dynamic Calibration (Calibration of Reversing Camera)**

The Rear Camera is responsible for Rear Camera on this vehicle.

The 2022 Mercedes-Benz G-Class - 463 repair manual states that a operation is required for the Rear Camera when the following occurs:

- Rear View Camera is installed (Line number 47)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61567/component/6630/itype/401/nonstandard/112770/selfRefLink/true>

2. Surround-View Monitor Cameras

- **Dynamic Calibration (Calibration of 360 Degree Camera System)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2022 Mercedes-Benz G-Class - 463 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Rear View Camera is installed (Line number 47)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61567/>

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 Mercedes-Benz G-Class - 463 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>

January 5, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Toyota RAV4 XLE
VIN: 2T3R1RFV9NC279979

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Blind Spot Warning
- Full-Speed Dynamic Radar Cruise Control
- Lane Departure Alert
- Lane Tracing Assist
- Pedestrian Impact Prevention
- Rear Camera
- Rear Cross-Traffic Alert
- Road Sign Assist
- Toyota Safety Sense (TSS) 2.0

ADAS

1. Front Radar

- **Static or Dynamic Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Full-Speed Dynamic Radar Cruise Control, Pre-Collision System, Pre-Collision System with Pedestrian Detection, and Toyota Safety Sense (TSS) 2.0 on this vehicle.

The 2022 Toyota RAV4 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/63886/guid/nty2019-2022rav4-RM100000021EK6_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/63886/component/7309/itype/401/nonstandard/125337/selfRefLink/false>

Safety

2. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2022 Toyota RAV4 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/63886/guid/natty2019-2022rav4-RM10000001G1HB_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/63886/component/611/itype/15/nonstandard/123853/selfRefLink/false>

3. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2022 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/63886/component/465/itype/15/nonstandard/114942/selfRefLink/false>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2022 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



January 5, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Hyundai Santa Fe Essential
VIN: 5NMS2DAJ6MH313951

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Forward Collision Avoidance Assist with Pedestrian Detection
Lane Keeping Assist
Rear Camera

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2021 Hyundai Santa Fe repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

January 4, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Hyundai Santa Fe SE
VIN: 5XYZUDLA8DG023758

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2013 Hyundai Santa Fe repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

January 4, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Volkswagen Jetta (Trim Not Selected)
VIN: 3VWC57BU9KM009154

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Front Assist with Automatic Emergency Braking
Pedestrian Monitoring
Rear Camera

Optional ADAS Features

Blind Spot Warning
Pedestrian Impact Prevention
Rear Collision Warning

ADAS

1. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Front Assist with Automatic Emergency Braking and Pedestrian Monitoring on this vehicle.

The 2019 Volkswagen Jetta repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 1, 2, and 11)
- Radiator Support is installed (Line number 54)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61626/component/7306/itype/401/nonstandard/210614/selfRefLink/false>

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61626/component/1246/itype/5/nonstandard/211198/selfRefLink/false>

Steering

2. Wheel Alignment

• **Wheel Alignment (Four Wheel Alignment)**

The 2019 Volkswagen Jetta repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61626/component/3399/itype/376/nonstandard/211186/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61626/component/6978/itype/376/nonstandard/211046/selfRefLink/true>

Safety

3. Seatbelt System

• **Inspection (Seatbelt Inspection and Function Test)**

The 2019 Volkswagen Jetta repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61626/guid/nawv2019-2020bu3-en-US-V-K0059078821_amERICA-X

HX0V7WWMN BG_html#X-HX0V7WWMN BG

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61626/component/1285/itype/383/nonstandard/211401/selfRefLink/false.nv.com/erwin/showArticleProperties.do?articleId=177175>

4. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2019 Volkswagen Jetta repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61626/component/6978/itype/376/nonstandard/211046/selfRefLink/true>



January 4, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Mercedes-Benz E-Class - 207 & 212 (Trim
Not Selected)
VIN: WDDHF9HB2EB033238

**2 Required ADAS Operations
1 Required Safety Operation**

There are 2 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

PARKTRONIC with Active Parking Assist
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Active Blind Spot Assist
Adaptive Cruise Control
Blind Spot Warning
Forward Collision Mitigation
Forward Collision Warning
Front Mounted Camera
Lane Departure Prevention
Lane Departure Warning
Pedestrian Impact Prevention
Rear Camera
Rear Collision Mitigation
Rear Collision Warning

ADAS

1. Active Park Assist Sensors

- **Operation Check (Active Park Assist Function Test)**

The Active Park Assist Sensors is responsible for PARKTRONIC with Active Parking Assist on this vehicle.

The 2014 Mercedes-Benz E-Class - 207 & 212 repair manual states that a operation is required for the Active Park Assist Sensors when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53430/component/7309/itype/401/nonstandard/1201554/selfRefLink/true>

2. Surround-View Monitor Cameras

- **Dynamic Calibration (Calibration of 360 Degree Camera System)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2014 Mercedes-Benz E-Class - 207 & 212 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1)
- Side Mirror is installed (Line number 27)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55859/component/754/itype/401/nonstandard/112464/>

selfRefLink/false

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55859/component/7309/itype/401/nonstandard/112437/>
selfRefLink/false

Safety

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2014 Mercedes-Benz E-Class - 207 & 212 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>



January 4, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Kia Soul +
VIN: KNDJP3A57F7174899

1 Required Safety Operation

There is 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2015 Kia Soul repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



January 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Mazda Mazda3 i Touring
VIN: JM1BM1L78E1176050

2 Required Safety Operations

There are 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Collision Warning

Optional ADAS Features

Rear Camera
Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Occupant Sensor Calibration (DTC Inspection & Calibration)**

The 2014 Mazda Mazda3 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/53894/component/1236/itype/378/nonstandard/1410165/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53894/component/3504/itype/383/nonstandard/1386853/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2014 Mazda Mazda3 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Mazda/Pre-_and_Post-Repair_Scanning.htm

January 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Dodge Avenger Base
VIN: 1C3CDZAB5DN721112

1 Required Safety Operation

There is 1 Safety that Dodge requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2013 Dodge Avenger repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

January 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Ford Edge Titanium
VIN: 2FMPK4K8XHBC18827

3 Required ADAS Operations 2 Required Safety Operations

There are 3 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Automated Parking Assistance
Rear Camera
Rear Parking Sensors

Optional ADAS Features

BLIS - Blind Spot Warning
Forward Collision Warning
Front Mounted Camera
Lane Departure Prevention
Rear Cross-Traffic Alert

ADAS

1. Active Park Assist Sensors

• Operation Check (Azimuth System Check)

The Active Park Assist Sensors is responsible for Automated Parking Assistance on this vehicle.

The 2017 Ford Edge repair manual states that a operation is required for the Active Park Assist Sensors when the following occurs:

- Front bumper is installed (Line number 1 and 3)
- Active Park Sensors - Front is installed (Line number 4)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56826/guid/nafm17edge-g1737725_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56826/component/7306/itype/402/nonstandard/10133/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56826/component/3716/itype/401/nonstandard/10145/selfRefLink/false>





2. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**
- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2017 Ford Edge repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56826/guid/nafm17edge-g1724505_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

3. Parking Sensors - Rear

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**



The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2017 Ford Edge repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- **Rear bumper is installed (Line number 31 and 32)**



Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56826/guid/nafm17edge-g1737070_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56826/component/7300/itype/402/nonstandard/10134/selfRefLink/false>

Safety

4. Seatbelt System

• Operation Check (Road Test Inspection)

The 2017 Ford Edge repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56826/component/1285/itype/377/nonstandard/11402/selfRefLink/false>

5. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2017 Ford Edge repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



January 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Ford Edge SEL
VIN: 2FMTK3J9XFBB97669

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Optional ADAS Features

Blind Spot Warning
Rear Collision Warning

ADAS

1. Parking Sensors - Rear

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2015 Ford Edge repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 23 and 24)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54374/component/1283/itype/383/nonstandard/1737838/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54374/component/7300/itype/402/nonstandard/1759423/selfRefLink/false>

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2015 Ford Edge repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54374/component/1285/itype/383/nonstandard/1736968/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2015 Ford Edge repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

January 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Acura RDX w/A-Spec Pkg
VIN: 5J8TC2H65LL809670

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Information System
Collision Mitigation Braking System
Front and Rear Parking Sensors
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Monitor

ADAS

1. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors on this vehicle.

The 2020 Acura RDX repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 1 and 6)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60675/component/871/itype/387/nonstandard/11663/selfRefLink/false>

Safety

2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)**

The 2020 Acura RDX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60675/component/6978/itype/383/nonstandard/12019/>



selfRefLink/true

3. SRS Unit

- **Inspection (Read SRS Deployment History)**



The 2020 Acura RDX repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60675/guid/na-au20rdx_tjb-T003209_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60675/component/611/itype/15/nonstandard/11481/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**



The 2020 Acura RDX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

January 3, 2023

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Acura TLX w/A-Spec Package
VIN: 19UUB6F51MA801460

3 Required Safety Operations

There are 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Advanced Pedestrian Detection
Blind Spot Information System
Collision Mitigation Braking System
Front and Rear Parking Sensors
Lane Keeping Assist System
Rear Camera
Rear Cross-Traffic Monitor
Traffic Jam Assist
Traffic Sign Recognition

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger Weight Sensor Output Check After a Vehicle Collision)**

The 2021 Acura TLX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62439/component/6978/itype/383/nonstandard/12440/selfRefLink/true>

2. SRS Unit

- **Inspection (Read SRS Deployment History)**

The 2021 Acura TLX repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62439/guid/na-au21tlx_tgv-T002219_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62439/component/611/itype/15/nonstandard/11833/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2021 Acura TLX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



December 30, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Mercedes-Benz GLA-Class & GLB-Class -
247 GLB 250
VIN: W1N4M4HB3MW158928

4 Required ADAS Operations 1 Required Safety Operation

There are 4 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Brake Assist
- Active Brake Assist
- Active Distance Assist DISTRONIC
- Active Speed Limit Assist
- Right-Side Camera
- Surround View rear mounted camera
- Surround-View Monitor

Optional ADAS Features

- Active Blind Spot Assist
- Active Lane Keeping Assist
- Automated Parking Assistance
- Blind Spot Warning
- DISTRONIC PLUS with Steering Assist
- Evasion Assist System
- Forward Collision Mitigation
- Front Mounted Camera
- Head-Up Display
- Rear Camera



Rear Collision Mitigation
Traffic Sign Recognition

ADAS

1. Mercedes Active Brake Assist Controller Unit (A108)

- **Dynamic Calibration (Calibration of Component A108)**



The Mercedes Active Brake Assist Controller Unit (A108) is responsible for Active Brake Assist, Active Brake Assist, Active Distance Assist DISTRONIC, and Forward Collision Mitigation on this vehicle.



The 2021 Mercedes-Benz GLA-Class & GLB-Class - 247 repair manual states that a operation is required for the Mercedes Active Brake Assist Controller Unit (A108) when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:



<https://my.alldata.com/repair/#/repair/article/61568/component/7309/itype/401/nonstandard/11354/selfRefLink/false>

2. Mercedes Distronic Distance-Pilot/Active Distance Assist Distronic (A108/1)

- **Dynamic Calibration (Distronic Driving Calibration)**



The Mercedes Distronic Distance-Pilot/Active Distance Assist Distronic (A108/1) is responsible for Active Speed Limit Assist on this vehicle.

The 2021 Mercedes-Benz GLA-Class & GLB-Class - 247 repair manual states that a operation is required for the



Mercedes Distronic Distance-Pilot/Active Distance Assist Distronic (A108/1) when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61568/component/7309/itype/401/nonstandard/11354/selfRefLink/false>

3. Mercedes Short and Long-Range Radar Sensor (B92/12)

- **Dynamic Calibration (Short/Long Range Radar Sensor Calibration)**



The Mercedes Short and Long-Range Radar Sensor (B92/12) is responsible for Active Distance Assist DISTRONIC on this vehicle.

The 2021 Mercedes-Benz GLA-Class & GLB-Class - 247 repair manual states that a operation is required for the Mercedes Short and Long-Range Radar Sensor (B92/12) when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61568/component/7309/itype/401/nonstandard/11354/selfRefLink/false>

4. Surround-View Monitor Cameras

- **Dynamic Calibration (Calibration of 360 Degree Camera System)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera, Surround View rear mounted camera, and Surround-View Monitor on this vehicle.

The 2021 Mercedes-Benz GLA-Class & GLB-Class - 247 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61568/guid/namb2020-2021247-ad00_00-p-2000-06mfa_pdf

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61568/component/7309/itype/401/nonstandard/11354/selfRefLink/false>

Safety

5. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2021 Mercedes-Benz GLA-Class & GLB-Class - 247 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>



December 30, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Toyota Corolla (Trim Not Selected)
VIN: JTNK4RBE6K3006084

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Lane Departure Prevention
Pre-Collision System with Pedestrian Detection
Rear Camera
Road Sign Assist
Toyota Safety Sense (TSS) 2.0

Optional ADAS Features

Blind Spot Monitor with Lane Change Assist

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Adaptive Cruise Control, Pre-Collision System with Pedestrian Detection, and Toyota Safety Sense (TSS) 2.0 on this vehicle.

The 2019 Toyota Corolla repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 1)
- Front bumper is replaced (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58306/guid/naty2014-2019corol-RM100000000YXM1_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59076/component/7309/itype/401/nonstandard/215653/selfRefLink/false>

Safety

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2019 Toyota Corolla repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59076/component/1285/itype/383/nonstandard/216443/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59076/component/465/itype/383/nonstandard/212057/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Toyota Corolla repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

December 30, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Honda Accord Touring
VIN: 1HGCR2F97FA810850

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision Warning
Lane Departure Warning
Rear Camera
Right-Side Camera

Optional ADAS Features

Rear Parking Sensors

Safety



1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check)**

The 2015 Honda Accord repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54561/component/6978/itype/383/nonstandard/12866/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2015 Honda Accord repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

December 23, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Volkswagen Golf 2.0T w/DCC & Navigation (DSG)
VIN: WVWVA7AU9KW135278

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Blind Spot Warning
- Front and Rear Parking Sensors
- Front Assist with Automatic Emergency Braking
- Lane Departure Prevention
- Pedestrian Monitoring
- Rear Camera
- Rear Collision Mitigation

Steering

1. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2019 Volkswagen Golf repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60003/component/3399/itype/376/nonstandard/214361/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60003/component/6978/itype/376/nonstandard/214166/selfRefLink/true>

Safety

2. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2019 Volkswagen Golf repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60003/guid/nawv2018-2021au2-en-US-V-K0059241221_amERICA-X-

HX0V7WWMN BG_html#X-HX0V7WWMN BG

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60003/component/1285/itype/383/nonstandard/213742/selfRefLink/false>

3. Vehicle Electronics

- OEM Pre-Scan (Vehicle Electronics Inspection)

The 2019 Volkswagen Golf repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60003/component/6978/itype/376/nonstandard/214166/selfRefLink/true>



December 20, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Mazda CX-5 Sport
VIN: JM3KFBBL8K0629493

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert
Smart City Brake Support

Optional ADAS Features

Forward Collision Mitigation
Lane Keep Assist
Mazda Radar Cruise Control
Pedestrian Detection
Rear Parking Sensors
Smart Brake Support

ADAS



1. Blind Spot Radar

- **Static Calibration (Blind Spot Monitoring (BSM) Radar Test)**

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2019 Mazda CX-5 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is replaced (Line number 58, 60, and 61)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/60149/guid/natk19cx5kf-SM1237183_html

Safety

2. Seat Weight Sensor

- 
- **Occupant Sensor Calibration (DTC Inspection & Calibration)**

The 2019 Mazda CX-5 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60149/guid/natk19cx5kf-SM1236004_html



OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60149/component/3504/itype/387/nonstandard/12232/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2019 Mazda CX-5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/CoIRef/Position_Statements/Mazda/Pre-_and_Post-Repair_Scanning.htm

December 20, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Hyundai Santa Fe Ultimate
VIN: 5NMS5CAA8LH145908

2 Required ADAS Operations
1 Required Steering Operation
1 Required Safety Operation

There are 2 ADAS, 1 Steering, and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Blind Spot System
Adaptive Cruise Control
Forward Collision Avoidance Assist with Pedestrian Detection
Forward Collision-Avoidance Assist
Front Mounted Camera
Head-Up Display
Lane Keeping Assist
Rear Camera
Rear Collision Mitigation
Rear Parking Sensors
Right-Side Camera
Safe Exit Assist
Surround-View Monitor

ADAS

1. Front Radar

- **Check Installation Angle (Vertical Calibration)**

- **Static Calibration (Smart Cruise Control (SCC) Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2020 Hyundai Santa Fe repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is replaced (Line number 8 and 10)
- Grille is replaced (Line number 25)
- Radiator Support is replaced (Line number 31 and 37)
- Radiator Support is installed (Line number 31 and 37)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60788/component/1246/itype/376/nonstandard/19800/selfRefLink/false>

2. Surround-View Monitor Cameras

- **Static Calibration (Manual Tolerance Compensation)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2020 Hyundai Santa Fe repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 8 and 10)
- Grille is installed (Line number 25 and 60)
- Front View Camera is installed (Line number 35)
- Side Mirror is installed (Line number 75 and 76)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62443/component/871/itype/387/nonstandard/28984/selfRefLink/false>

Steering

3. Steering Angle Sensor

- **Midpoint Setting (ASP Calibration)**

The 2020 Hyundai Santa Fe repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Alignment - Front End is repaired (Line number 89)
- Alignment - Four Wheel is repaired (Line number 89)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60788/component/3915/itype/376/nonstandard/20096/selfRefLink/false>

OEM procedure requirement:

<https://static.nhtsa.gov/odi/tsbs/2020/MC-10172142-0001.pdf>

Safety

4. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2020 Hyundai Santa Fe repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



December 20, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Toyota Sienna XLE
VIN: 5TDDK3DC4DS050050

2 Required Safety Operations

There are 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Blind Spot Warning
Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2013 Toyota Sienna repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52531/component/1236/itype/387/nonstandard/511494/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Toyota Sienna repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

December 20, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Chevrolet Equinox LT
VIN: 2GNAXKEV0M6104699

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Following Distance Indicator
Forward Collision Alert with Automatic Emergency Braking
Front Pedestrian Braking
Lane Keep Assist with Lane Departure Warning

Optional ADAS Features

Lane Change Alert with Side Blind Zone Alert
Rear Camera
Rear Cross-Traffic Alert
Rear Parking Sensors

ADAS

1. Windshield Camera(s)

- **Dynamic Calibration (Front View Camera Module - Learn)**

The Windshield Camera(s) is responsible for Following Distance Indicator, Forward Collision Alert with Automatic Emergency Braking, Front Pedestrian Braking, and Lane Keep Assist with Lane Departure Warning on this vehicle.

The 2021 Chevrolet Equinox repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 34)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62392/guid/nagc21equin-5182933_html

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/gm-driver-assistance-systems-aid.pdf>

Safety

2. Repairs and Inspections Required After a Collision

- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**
- **Inspection (Post Collision Safety Inspection)**

The 2021 Chevrolet Equinox repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Chevrolet Equinox repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

December 20, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 BMW 3 Series M340i xDrive
VIN: 3MW5U9J08M8B57779

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that BMW requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Daytime Pedestrian Detection
Evasion Assist System
Frontal Collision Warning with City Collision Mitigation
Traffic Jam Assistant with Automatic Lane Change

Optional ADAS Features

Active Blind Spot Detection
Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Front Mounted Camera
Head-Up Display
Lane Departure Prevention
Lane Departure Warning
Park Distance Control - Front and Rear Parking Sensors
Parking Assistant Plus - Automated Parking Assistance
Rear Camera
Rear Camera
Rear Cross-Traffic Alert
Right-Side Camera
Surround-View Monitor

Traffic Sign Recognition

ADAS

1. Front Side Radar

- **Dynamic Calibration (Initialization of the SWW Sensor System)**

The Front Side Radar is responsible for Evasion Assist System and Traffic Jam Assistant with Automatic Lane Change on this vehicle.

The 2021 BMW 3 Series repair manual states that a operation is required for the Front Side Radar when the following occurs:

- Front bumper is replaced (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61977/guid/nabm2019-2021g20-635bcce1-5de8-b7fd-b9e4-83b218494d78-gpwu-86a8ad63-005_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61977/component/1283/itype/392/nonstandard/110787/selfRefLink/true>

Safety



2. Headlight Assembly - Programming Required if Attached Control Modules are also Replaced

- **Programming (Encode/Program Control Unit)**

The 2021 BMW 3 Series repair manual states that a operation is required for the Headlight Assembly - Programming Required if Attached Control Modules are also Replaced when the following occurs:

- Headlamp is replaced (Line number 36)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61214/guid/nabm2019-2021g20-635bcce1-5de8-b7fd-b9e4-83b218494d78-yrag-de54d8ff-003_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61214/component/896/itype/401/nonstandard/114143/selfRefLink/false>

3. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2021 BMW 3 Series repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61977/component/1285/itype/383/nonstandard/112672/>

selfRefLink/false

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2021 BMW 3 Series repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW%2C_Mini%2FPreliminary_Diagnostics_For_Collision_Repair.htm



December 20, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Mercedes-Benz CLS-Class - 257 AMG CLS 53
VIN: W1K2J6BB3NA106215

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision Mitigation
Front and Rear Parking Sensors
Pedestrian Detection Warning
Rear Camera
Rear Collision Mitigation
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Active Blind Spot Assist
Active Distance Assist DISTRONIC
Active Lane Keeping Assist
Active Speed Limit Assist
Adaptive Cruise Control with Stop and Go
Blind Spot Warning
Front Mounted Camera
Head-Up Display
Traffic Sign Recognition

ADAS

1. Mercedes Active Brake Assist Controller Unit (A108)

- **Dynamic Calibration (Calibration of Component A108)**

The Mercedes Active Brake Assist Controller Unit (A108) is responsible for Active Distance Assist DISTRONIC and Forward Collision Mitigation on this vehicle.

The 2022 Mercedes-Benz CLS-Class - 257 repair manual states that a operation is required for the Mercedes Active Brake Assist Controller Unit (A108) when the following occurs:

- Front bumper is installed (Line number 1, 2, and 14)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61427/component/7309/itype/401/nonstandard/111330/selfRefLink/false>

2. Surround-View Monitor Cameras

- **Dynamic Calibration (Calibration of 360 Degree Camera System)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2022 Mercedes-Benz CLS-Class - 257 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1, 2, and 14)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61427/component/7309/itype/401/nonstandard/111330/selfRefLink/false>

Safety

3. Headlight Assembly

- **Programming (Commission Headlight Unit)**

The 2022 Mercedes-Benz CLS-Class - 257 repair manual states that a operation is required for the Headlight Assembly when the following occurs:

- Headlamp is replaced (Line number 34 and 36)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60291/guid/namb2019-2020257-ad00_00-p-2000-06fr_pdf

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60291/component/536/itype/401/nonstandard/111218/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 Mercedes-Benz CLS-Class - 257 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>



December 20, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Kia Sorento EX
VIN: 5XYPHDA13HG310557

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Rear Camera
Rear Parking Sensors

Optional ADAS Features

Blind Spot Warning
Forward Collision Mitigation
Lane Departure Warning
Rear Collision Warning

ADAS

1. Front Radar

- **Static Calibration (Smart Cruise Control (SCC) Radar Alignment)**
- **Check Installation Angle (Vertical Calibration)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2017 Kia Sorento repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is replaced (Line number 1)
- Front Reinforcement Bar is replaced (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56613/component/451/itype/376/nonstandard/3101348/selfRefLink/false>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Kia Sorento repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



December 20, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Hyundai Tucson Preferred
VIN: KM8JBCAE3NU049179

2 Required ADAS Operations 1 Required Safety Operation

There are 2 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Blind-Spot Collision-Avoidance Assist
Forward Collision Avoidance Assist with Pedestrian Detection
Front Cross-Traffic Alert
Lane Keeping Assist
Rear Camera
Rear Cross-Traffic Collision-Avoidance Assist

ADAS

1. Front Radar

- **Check Installation Angle (Vertical Calibration)**

- **Static Calibration (Smart Cruise Control (SCC) Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2022 Hyundai Tucson repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 6 and 7)
- Front Reinforcement Bar is installed (Line number 10)
- Radiator Support is replaced (Line number 22 and 25)
- Radiator Support is installed (Line number 22 and 25)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1\\$3_8_4_4&sitinfolist=94^1143^11430100^none^801^1^ENG^HY^TL13^2021^all^0^none^none^none^SHOP^^\\$94^1143^11430100^none^801^8^ENG^HY^TL13^2021^all^0^none^none^none^SHOP^^\\$94^1143^11430100^none^801^5^ENG^HY^TL13^2021^all^0^none^none^none^SHOP^^\\$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20\(ADAS\)&cat1=2021%20%3E%20G%20202.0%20GDI&content_no=SHOP|ENG|3408|2021|14930|all|0|1\\$3_8_4_4|801&cntssn=62878&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1$3_8_4_4&sitinfolist=94^1143^11430100^none^801^1^ENG^HY^TL13^2021^all^0^none^none^none^SHOP^^$94^1143^11430100^none^801^8^ENG^HY^TL13^2021^all^0^none^none^none^SHOP^^$94^1143^11430100^none^801^5^ENG^HY^TL13^2021^all^0^none^none^none^SHOP^^$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20(ADAS)&cat1=2021%20%3E%20G%20202.0%20GDI&content_no=SHOP|ENG|3408|2021|14930|all|0|1$3_8_4_4|801&cntssn=62878&printtype=content_print&imgnum=1)

2. Windshield Camera(s)

- **Dynamic Calibration (Service Point Calibration (SPC))**

The Windshield Camera(s) is responsible for Forward Collision Avoidance Assist with Pedestrian Detection and Lane Keeping Assist on this vehicle.

The 2022 Hyundai Tucson repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is replaced (Line number 43)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2\\$3_3_3&sitinfolist=94^9403^none^none^801^none^ENG^HY^NX413^2022^all^0^none^none^none^SHOP^^\\$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20\(ADAS\)&cat1=2022%20%3E%20G%202.5%20GDI%20THETA%20III&content_no=SHOP|ENG|9537|2022|28124|all|0|2\\$3_3_3|801&cntssn=66185&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2$3_3_3&sitinfolist=94^9403^none^none^801^none^ENG^HY^NX413^2022^all^0^none^none^none^SHOP^^$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20(ADAS)&cat1=2022%20%3E%20G%202.5%20GDI%20THETA%20III&content_no=SHOP|ENG|9537|2022|28124|all|0|2$3_3_3|801&cntssn=66185&printtype=content_print&imgnum=1)

OEM procedure requirement:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1\\$3_8_4_4&sitinfolist=94^1143^11430100^none^801^1^ENG^HY^TL13^2021^all^0^none^none^none^SHOP^^\\$94^1143^11430100^none^801^8^ENG^HY^TL13^2021^all^0^none^none^none^SHOP^^\\$94^1143^11430100^none^801^5^ENG^HY^TL13^2021^all^0^none^none^none^SHOP^^\\$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20\(ADAS\)&cat1=2021%20%3E%20G%202.0%20GDI&content_no=SHOP|ENG|3408|2021|14930|all|0|1\\$3_8_4_4|801&cntssn=62878&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=1$3_8_4_4&sitinfolist=94^1143^11430100^none^801^1^ENG^HY^TL13^2021^all^0^none^none^none^SHOP^^$94^1143^11430100^none^801^8^ENG^HY^TL13^2021^all^0^none^none^none^SHOP^^$94^1143^11430100^none^801^5^ENG^HY^TL13^2021^all^0^none^none^none^SHOP^^$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20(ADAS)&cat1=2021%20%3E%20G%202.0%20GDI&content_no=SHOP|ENG|3408|2021|14930|all|0|1$3_8_4_4|801&cntssn=62878&printtype=content_print&imgnum=1)



Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2022 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



December 20, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Nissan Murano Platinum
VIN: 5N1AZ2MH3GN100107

2 Required Safety Operations

There are 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Mitigation
Front Mounted Camera
Rear Camera
Rear Collision Warning
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Adaptive Cruise Control

Safety



1. Seatbelt System

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**
- **Inspection (Seatbelt Inspection)**
- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**

The 2016 Nissan Murano repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56244/component/1285/itype/383/nonstandard/13331/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2016 Nissan Murano repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/nissan/position-statements/24715.pdf>

December 19, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Honda HR-V EX
VIN: 3CZRU5H51GM102515

3 Required Safety Operations

There are 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Right-Side Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2016 Honda HR-V repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55332/component/3504/itype/383/nonstandard/101858/>

selfRefLink/false

2. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2016 Honda HR-V repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/service_info.html?package=61T7A&lang=enu&sie=T004977_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/service_info.html?package=61T7A&lang=enu&sie=G005666_enu

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2016 Honda HR-V repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

December 19, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Subaru Impreza Premium
VIN: JF1GJAC66DH019246

2 Required Safety Operations

There are 2 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2013 Subaru Impreza repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre-_and_Post-_Scanning_of_Collision_Vehicles.htm

2. Vehicle Electronics

- **Inspection (Safety System Inspection After a Collision)**

The 2013 Subaru Impreza repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/52397/component/6978/itype/383/nonstandard//selfRefLink/true>



December 19, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Honda Civic LX
VIN: 2HGFC2E53LH024327

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System
Rear Camera

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar - Aim)**

The Front Radar is responsible for Adaptive Cruise Control, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2020 Honda Civic repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 12 and 16)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60819/component/4037/itype/387/nonstandard/13767/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

2. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Keeping Assist System on this vehicle.

The 2020 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 12 and 16)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60819/component/1283/itype/387/nonstandard/13763/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2020 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60819/component/6978/itype/383/nonstandard/13058/selfRefLink/false>



4. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2020 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60819/guid/nahn20civic_tba-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60819/component/611/itype/15/nonstandard/12086/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2020 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

December 19, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Honda Civic EX
VIN: 2HGFC2F82HH014159

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera
Right-Side Camera

ADAS

1. Front Radar

- **Vertically Align Sensor (Vertical Radar Aim)**
- **Static Calibration (Horizontal Radar Aim)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow and Collision Mitigation Braking System on this vehicle.

The 2017 Honda Civic repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 1 and 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57012/component/1283/itype/387/nonstandard/102665/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

2. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Lane Keeping Assist System on this vehicle.

The 2017 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor



cosmetic abrasion) is repaired (Line number 1 and 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57012/component/1283/itype/387/nonstandard/102664/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2017 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57011/component/6978/itype/383/nonstandard/103231/selfRefLink/false>



4. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2017 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57011/guid/nah17CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57011/component/611/itype/15/nonstandard/102293/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2017 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

December 16, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Volkswagen Golf (Trim Not Selected)
VIN: 3VW217AU6HM005273

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Adaptive Cruise Control
Automated Parking Assistance
Blind Spot Warning
Front Assist with Automatic Emergency Braking
Lane Assist
Rear Cross-Traffic Alert

Steering

1. Wheel Alignment

• **Wheel Alignment (Four Wheel Alignment)**

The 2017 Volkswagen Golf repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59063/component/3399/itype/376/nonstandard/1103899/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59063/component/6978/itype/376/nonstandard/1103720/selfRefLink/false>

Safety

2. Seatbelt System

• **Inspection (Seatbelt Inspection and Function Test)**

The 2017 Volkswagen Golf repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57435/guid/naw2016-2017Golf_AU1-en-US-V-K0059241221_americas



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OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57435/component/1285/itype/383/nonstandard/10571/selfRefLink/true>

3. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2017 Volkswagen Golf repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59063/component/6978/itype/376/nonstandard/1103720/selfRefLink/false>

December 16, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Subaru Outback Touring
VIN: 4S4BTDEC3M3205614

4 Required ADAS Operations 2 Required Safety Operations

There are 4 ADAS and 2 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Blind Spot Warning
- EyeSight - Adaptive Cruise Control
- EyeSight - Lane Keep Assist
- EyeSight - Pre-Collision Braking
- EyeSight - Pre-Collision Braking
- Rear Camera
- Rear Collision Mitigation

ADAS

1. Blind Spot Radar

• Static Calibration (Radar Axis Adjustment)

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2021 Subaru Outback repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 19)
- Rear Reinforcement Bar is replaced (Line number 35)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61928/guid/nasb21legacy-s973c69a01_html#s973c69a0101

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/61928/guid/nasb21legacy-s073001a03_html

2. Parking Sensors - Rear

• Check Installation Angle (Height and Angle Inspection)

The 2021 Subaru Outback repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is replaced (Line number 20)
- Parking Sensor - Rear is replaced (Line number 24, 33, and 34)

Please see the documentation from the manufacturer below.

OEM procedure instructions:



https://my.alldata.com/repair/#/repair/article/61928/guid/nasb21legacy-s974d11a10_html#s974d11a1001

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61928/component/3/itype/401/nonstandard/17441/selfRefLink/false>

3. Rear Camera

- **Operation Check (Rear Camera Guideline Alignment and Inspection)**

The Rear Camera is responsible for Rear Camera on this vehicle.



The 2021 Subaru Outback repair manual states that a operation is required for the Rear Camera when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:



https://my.alldata.com/repair/#/repair/article/61928/guid/nasb21legacy-s921d47a10_html#s921d47a1002

OEM procedure requirement:

[article/61928/component/715/itype](https://my.alldata.com/repair/#/repair/article/61928/component/715/itype)

4. Windshield Camera(s)

- Dual Calibration - Static and Dynamic (Camera adjustment and function check)

The Windshield Camera(s) is responsible for EyeSight - Adaptive Cruise Control, EyeSight - Lane Keep Assist, EyeSight - Pre-Collision Braking, and EyeSight - Pre-Collision Braking on this vehicle.

The 2021 Subaru Outback repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61928/component/6798/itype/376/nonstandard/17382/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61928/component/1283/itype/15/nonstandard/10229/selfRefLink/false>

Safety

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Subaru Outback repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre_and_Post_Scanning_of_Collision_Vehicles.htm

6. Vehicle Electronics

- **Inspection (Safety System Inspection After a Collision)**

The 2021 Subaru Outback repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61928/component/6978/itype/383/nonstandard/16497/selfRefLink/false>

December 16, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Hyundai Kona Ultimate
VIN: KM8K5CA57KU359956

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Blind Spot Warning
- Forward Collision-Avoidance Assist
- Head-Up Display
- Lane Departure Warning System
- Pedestrian Impact Prevention
- Rear Camera
- Rear Cross-Traffic Collision Warning
- Rear Parking Sensors

ADAS

1. Blind Spot Radar

- **Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)**
- **Dynamic Calibration (BCW Unit Alignment)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Cross-Traffic Collision Warning on this vehicle.

The 2019 Hyundai Kona repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 2 and 3)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59641/component/7821/itype/376/nonstandard/2101735/selfRefLink/true>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2019 Hyundai Kona repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

December 16, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Mazda Mazda3 Grand Touring
VIN: 3MZBN1M36JM227158

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Mazda Radar Cruise Control
Rear Camera
Rear Cross-Traffic Alert
Smart Brake Support
Smart City Brake Support

Optional ADAS Features

Lane Departure Warning
Lane Keep Assist
Rear Parking Sensors
Traffic Sign Recognition

ADAS

1. Front Radar

• Static Calibration (Radar Aiming)

The Front Radar is responsible for Mazda Radar Cruise Control on this vehicle.

The 2018 Mazda Mazda3 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 2)
- Front bumper is replaced (Line number 3 and 7)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57959/guid/natk18mazda3bn-SM1301332_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57958/component/1246/itype/401/nonstandard/13989/selfRefLink/false>

Safety

2. Seat Weight Sensor

• Occupant Sensor Calibration (DTC Inspection & Calibration)

The 2018 Mazda Mazda3 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57958/guid/ntk18mazda3bn-SM1300169_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57958/component/3504/itype/387/nonstandard/12361/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2018 Mazda Mazda3 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Mazda/Pre_and_Post-Repair_Scanning.htm

December 16, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Hyundai Santa Cruz Ultimate
VIN: 5NTJEDAF0NH026643

2 Required ADAS Operations
1 Required Steering Operation
1 Required Safety Operation

There are 2 ADAS, 1 Steering, and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Blind-Spot Collision-Avoidance Assist
Forward Collision Avoidance Assist with Pedestrian Detection
Front Cross-Traffic Alert
Front Mounted Camera
Lane Keeping Assist
Rear Camera
Rear Cross-Traffic Collision-Avoidance Assist
Right-Side Camera
Surround-View Monitor
Traffic Sign Recognition with Speed Limiter

ADAS

1. Front Radar

- **Static Calibration (Smart Cruise Control (SCC) Radar Alignment)**
- **Check Installation Angle (Vertical Calibration)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2022 Hyundai Santa Cruz repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2\\$3_4_4_3&sitinfolist=94^9404^94040100^none^801^4^ENG^HY^NX443^2022^all^0^none^none^none^SHOP^+\\$94^9404^94040100^none^801^1^ENG^HY^NX443^202^all^0^none^none^none^SHOP^+\\$94^9404^94040100^none^801^8^ENG^HY^NX443^2022^all^0^none^none^none^SHOP^+\\$94^9404^94040100^none^801^5^ENG^HY^NX443^2022^all^0^none^none^none^SHOP^+\\$&firstnode_desc=Advanced%20Driver%20Assistance%20System%20\(ADAS\)&cat1=2022%20%3E%20G%202.5%20T-GDI%20THETA%20III&content_no=SHOP|ENG|9583|2022|28284|all|0|2\\$3_4_4_3|801&cntssn=69268&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2$3_4_4_3&sitinfolist=94^9404^94040100^none^801^4^ENG^HY^NX443^2022^all^0^none^none^none^SHOP^+$94^9404^94040100^none^801^1^ENG^HY^NX443^202^all^0^none^none^none^SHOP^+$94^9404^94040100^none^801^8^ENG^HY^NX443^2022^all^0^none^none^none^SHOP^+$94^9404^94040100^none^801^5^ENG^HY^NX443^2022^all^0^none^none^none^SHOP^+$&firstnode_desc=Advanced%20Driver%20Assistance%20System%20(ADAS)&cat1=2022%20%3E%20G%202.5%20T-GDI%20THETA%20III&content_no=SHOP|ENG|9583|2022|28284|all|0|2$3_4_4_3|801&cntssn=69268&printtype=content_print&imgnum=1)

2. Surround-View Monitor Cameras

- **Static Calibration (Manual Tolerance Compensation)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2022 Hyundai Santa Cruz repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2\\$3_6_3&sitinfolist=94^9270^none^none^801^4^ENG^HY^NX443^2022^all^0^none^none^none^SHOP^\\$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20\(ADAS\)&cat1=2022%20%3E%20G%202.5%20T-GDI%20THETA%20III&content_no=SHOP|ENG|9583|2022|28284|all|0|2\\$3_6_3|801&cntssn=69268&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=2$3_6_3&sitinfolist=94^9270^none^none^801^4^ENG^HY^NX443^2022^all^0^none^none^none^SHOP^$&firstnodedesc=Advanced%20Driver%20Assistance%20System%20(ADAS)&cat1=2022%20%3E%20G%202.5%20T-GDI%20THETA%20III&content_no=SHOP|ENG|9583|2022|28284|all|0|2$3_6_3|801&cntssn=69268&printtype=content_print&imgnum=1)

Steering

3. Steering Angle Sensor

- **Midpoint Setting (ASP Calibration)**

The 2022 Hyundai Santa Cruz repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Alignment - Front End is repaired (Line number 26)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

[https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=4\\$14_6_4_1&sitinfolist=61^6145^61450100^none^801^6^ENG^HY^NX443^2022^st^8^none^none^none^SHOP^\\$61^6145^61450100^none^801^5^ENG^HY^NX443^2022^st^8^none^none^none^SHOP^\\$&firstnode_desc=Steering%20System&cat1=2022%20%3E%20G%202.5%20T-GDI%20THETA%20III&content_no=SHOP|ENG|9583|2022|28284|st|8|4\\$14_6_4_1|801&cntssn=69020&printtype=content_print&imgnum=1](https://www.hyundaitechinfo.com/viewer/print_pop.aspx?pos=4$14_6_4_1&sitinfolist=61^6145^61450100^none^801^6^ENG^HY^NX443^2022^st^8^none^none^none^SHOP^$61^6145^61450100^none^801^5^ENG^HY^NX443^2022^st^8^none^none^none^SHOP^$&firstnode_desc=Steering%20System&cat1=2022%20%3E%20G%202.5%20T-GDI%20THETA%20III&content_no=SHOP|ENG|9583|2022|28284|st|8|4$14_6_4_1|801&cntssn=69020&printtype=content_print&imgnum=1)

OEM procedure requirement:

<https://static.nhtsa.gov/odi/tsbs/2020/MC-10172142-0001.pdf>

Safety

4. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2022 Hyundai Santa Cruz repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

December 16, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Ram 1500 Sport
VIN: 1C6SRFLT7LN376524

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Blind Spot Detection
Forward Collision Warning-Plus
Front Mounted Camera
Lane Keep Assist
Rear Collision Mitigation
Right-Side Camera
Surround View rear mounted camera
Surround-View Monitor

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2020 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-
document.pdf](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf)



December 15, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Ram 1500 Sport
VIN: 1C6SRFLT0KN752494

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Stop and Go
- Automated Parking Assistance
- Blind Spot Warning
- Forward Collision Warning-Plus
- Front Mounted Camera
- Lane Departure Warning-Plus
- Rear Camera
- Rear Collision Mitigation
- Right-Side Camera
- Surround-View Monitor

ADAS

1. Surround-View Monitor Cameras

- **Dynamic Calibration (CVPM Service Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2019 Ram 1500 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Tailgate is installed (Line number 3)
- Tailgate Handle is installed (Line number 7)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/58744/guid/nacr19dt-GUID-58CC4C46-2CD4-43D1-AEFA-ED669E9BB813_html

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)**

The 2019 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-

document.pdf



> adasThink



December 15, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Acura TLX w/Technology Package
VIN: 19UUB6F43MA802519

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Low-Speed Follow
- Advanced Pedestrian Detection
- Blind Spot Information System
- Collision Mitigation Braking System
- Front and Rear Parking Sensors
- Lane Keeping Assist System
- Rear Camera
- Rear Cross-Traffic Monitor
- Traffic Jam Assist
- Traffic Sign Recognition

ADAS

1. Front Radar

• Static Calibration (Millimeter Wave Radar - Aim)

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Traffic Jam Assist on this vehicle.

The 2021 Acura TLX repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1)
- Front bumper (if damaged within 300mm of radar) is replaced (Line number 2 and 4)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 10)
- Grille (if damaged within 300mm of radar) is replaced (Line number 11)
- Wave Radar Sensor is installed (Line number 18)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/acura/position-statements/43998.pdf>

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62439/component/871/itype/387/nonstandard/12346/selfRefLink/true>

2. Windshield Camera(s)

• Static Calibration (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Advanced Pedestrian Detection, Collision Mitigation Braking System, Lane Keeping Assist System, and Traffic Jam Assist on this vehicle.

The 2021 Acura TLX repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 10)
- Windshield is installed (Line number 22)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/acura/position-statements/43998.pdf>

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62439/component/1283/itype/387/nonstandard/12345/selfRefLink/true>

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger Weight Sensor Output Check After a Vehicle Collision)**

The 2021 Acura TLX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62439/component/6978/itype/383/nonstandard/12440/selfRefLink/true>

4. SRS Unit

- **Inspection (Read SRS Deployment History)**

The 2021 Acura TLX repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62439/guid/na-au21tlx_tgv-T002219_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62439/component/611/itype/15/nonstandard/11833/selfRefLink/true>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2021 Acura TLX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



December 15, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Ford F-150 (Trim Not Selected)
VIN: 1FTFW1ED8NFA88794

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Pedestrian Impact Prevention
Rear Camera with Dynamic Hitch Assist

Optional ADAS Features

Blind Spot Warning
Evasion Assist System
Ford Co-Pilot360 - Active Park Assist 2.0
Ford Co-Pilot360 - Pre-Collision Assist with Automatic Emergency Braking
Forward and Reverse Sensing System
Forward Collision Mitigation
Front Cross-Traffic Alert
Front Mounted Camera
Lane Departure Prevention
Pro-Trailer Backup Assist
Rear Collision Mitigation
Rear Parking Sensors
Right-Side Camera
Surround-View Monitor

ADAS

1. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**

- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2022 Ford F-150 repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2165784_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2022 Ford F-150 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2152543_html

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 Ford F-150 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

December 15, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 GMC Sierra 1500 SLT
VIN: 3GTU9DEL4MG254636

2 Required Safety Operations

There are 2 Safety that GMC requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Hitch Guidance - Trailer Backup Assist
Rear Camera

Optional ADAS Features

Adaptive Cruise Control
Following Distance Indicator
Forward Collision Alert with Automatic Braking
Front and Rear Parking Sensors
Front Mounted Camera
Front Pedestrian Braking
Head-Up Display
Lane Change Alert with Side Blind Zone Alert
Lane Keep Assist with Lane Departure Warning
Pickup Box Camera
Rear Cross-Traffic Alert
Right-Side Camera
Surround-View Monitor

Safety



1. Repairs and Inspections Required After a Collision

- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2021 GMC Sierra 1500 repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 GMC Sierra 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

December 15, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Mazda CX-5 Carbon Edition
VIN: JM3KFBCM4M0482342

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Mitigation
Lane Departure Prevention
Mazda Radar Cruise Control
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Alert

Optional ADAS Features

Rear Parking Sensors

ADAS



1. Blind Spot Radar

- **Static Calibration (Blind Spot Monitoring (BSM) Radar Test)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Cross-Traffic Alert on this vehicle.

The 2021 Mazda CX-5 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is replaced (Line number 4)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62030/guid/ntk21cx_5-SM2899999_html

Safety

2. Seat Weight Sensor

- **Occupant Sensor Calibration (DTC Inspection & Calibration)**

The 2021 Mazda CX-5 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62030/guid/ntk21cx_5-SM2898751_html



OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62030/component/3504/itype/387/nonstandard/15612/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2021 Mazda CX-5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/CoIRef/Position_Statements/Mazda/Pre-_and_Post-Repair_Scanning.htm

December 15, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Chevrolet Impala LT
VIN: 2G1125S32E9116941

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Alert
Lane Departure Warning
Rear Cross-Traffic Alert

Optional ADAS Features

Rear Camera
Rear Parking Sensors

ADAS

1. Blind Spot Radar

- **Programming (Side Object Sensor Module - Programming and Setup)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Cross-Traffic Alert on this vehicle.

The 2014 Chevrolet Impala repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Blind Spot Module is replaced (Line number 20)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/53199/component/872/itype/387/nonstandard/1962652/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/53199/component/1/itype/387/nonstandard/1961705/selfRefLink/false>

2. Windshield Camera(s)

- **Dynamic Calibration (Front View Camera Module - Learn)**

The Windshield Camera(s) is responsible for Forward Collision Alert and Lane Departure Warning on this vehicle.

The 2014 Chevrolet Impala repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 9)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/53199/component/6798/itype/387/nonstandard/1969031/selfRefLink/false>

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/gm-driver-assistance-systems-aid.pdf>

Safety

3. Repairs and Inspections Required After a Collision

- **Inspection (Post Collision Safety Inspection)**
 - **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2014 Chevrolet Impala repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2014 Chevrolet Impala repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>



December 14, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Ford F-150 LARIAT
VIN: 1FTEW1EP7NFA76139

4 Required ADAS Operations 2 Required Safety Operations

There are 4 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Blind Spot Warning
Ford Co-Pilot360 - Active Park Assist 2.0
Forward and Reverse Sensing System
Lane Departure Prevention
Pedestrian Impact Prevention
Pro-Trailer Backup Assist
Rear Camera with Dynamic Hitch Assist
Rear Collision Mitigation
Rear Parking Sensors
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Evasion Assist System
Ford Co-Pilot360 - Pre-Collision Assist with Automatic Emergency Braking
Front Cross-Traffic Alert
Front Mounted Camera
Traffic Sign Recognition with Speed Limiter

ADAS

1. Front Radar

- **Vertically Align Sensor (Cruise Control Radar Alignment)**
- **Dynamic Calibration (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2022 Ford F-150 repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2165784_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Parking Sensors - Rear

- **Operation Check (Elevation System Check)**
- **Operation Check (Azimuth System Check)**

The Parking Sensors - Rear is responsible for Ford Co-Pilot360 - Active Park Assist 2.0, Forward and Reverse Sensing System, and Rear Parking Sensors on this vehicle.

The 2022 Ford F-150 repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 28)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2160984_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62254/component/7302/itype/401/nonstandard/10672/selfRefLink/false>

3. Pro Trailer Backup Assist Camera

- **Dynamic Calibration (Pro Trailer Backup Assist Camera Alignment)**

The Pro Trailer Backup Assist Camera is responsible for Pro-Trailer Backup Assist on this vehicle.

The 2022 Ford F-150 repair manual states that a operation is required for the Pro Trailer Backup Assist Camera when the following occurs:

- Tailgate is installed (Line number 14 and 26)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2160994_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62254/component/1283/itype/392/nonstandard/10262/selfRefLink/false>

4. Surround-View Monitor Cameras

- **Dynamic Calibration (360-Degree View Camera Alignment)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2022 Ford F-150 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Tailgate is installed (Line number 14 and 26)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2160994_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62254/component/1283/itype/392/nonstandard/10243/selfRefLink/false>

Safety

5. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2022 Ford F-150 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2152543_html

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 Ford F-150 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



December 14, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Ford Escape SE
VIN: 1FMCU9GD3HUB54300

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Optional ADAS Features

Blind Spot Warning
Rear Collision Warning

ADAS

1. Active Park Assist Sensors

- **Operation Check (Azimuth System Check)**

The 2017 Ford Escape repair manual states that a operation is required for the Active Park Assist Sensors when the following occurs:

- Rear bumper is installed (Line number 1, 2, 10, and 12)
- Active Park Sensors - Rear is installed (Line number 9)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56558/guid/nafm17escap-g1835199_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56558/component/7300/itype/402/nonstandard/11044/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56558/component/3716/itype/401/nonstandard/11046/selfRefLink/false>

2. Parking Sensors - Rear

- **Operation Check (Azimuth System Check)**

- **Operation Check (Elevation System Check)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2017 Ford Escape repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 1, 2, 10, and 12)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56558/guid/nafm17escap-g1616336_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56558/component/3716/itype/401/nonstandard/11028/selfRefLink/false>

Safety

3. Seatbelt System

- Operation Check (Road Test Inspection)

The 2017 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56558/component/1285/itype/377/nonstandard/11305/selfRefLink/falseta.com/repair/#/repair/article/61360/component/1285/itype/377/nonstandard/110961/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56558/component/1285/itype/377/nonstandard/11305/selfRefLink/false>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2017 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



December 13, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Infiniti Q50 3.0t LUXE
VIN: JN1EV7BR1MM754666

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Infiniti requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Blind Spot Warning
- Following Distance Alert
- Front and Rear Parking Sensors
- Front Mounted Camera
- Intelligent Cruise Control
- Lane Departure Warning
- Predictive Forward Collision Warning with Forward Emergency Braking
- Rear Camera
- Rear Collision Mitigation
- Right-Side Camera
- Surround-View Monitor

ADAS

1. Front Radar

• Static Calibration (ICC Sensor Alignment)

The Front Radar is responsible for Intelligent Cruise Control and Predictive Forward Collision Warning with Forward Emergency Braking on this vehicle.

The 2021 Infiniti Q50 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 2 and 3)
- Front bumper is installed (Line number 2 and 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62303/guid/nain21q50-SIEMD-5159029_html

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/infiniti/position-statements/25481.pdf>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62303/component/7309/itype/401/nonstandard/11674/selfRefLink/false>



2. Surround-View Monitor Cameras

- **Static Calibration (Calibrating Camera Image)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2021 Infiniti Q50 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 2 and 3)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62303/guid/na-in21q50-SIEMD-5158026_html

Safety

3. Seatbelt System

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

- **Inspection (Seatbelt Inspection)**

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**

The 2021 Infiniti Q50 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62303/component/728/itype/383/nonstandard/11227/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Infiniti Q50 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/nissan/position-statements/24715.pdf>



December 13, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Kia Sorento (Trim Not Selected)
VIN: 5XYPKDA55HG305851

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert
Rear Parking Sensors

Optional ADAS Features

Adaptive Cruise Control
Adaptive Cruise Control with Stop and Go
Autonomous Emergency Braking
Forward Collision Mitigation
Front Mounted Camera
Lane Departure Warning
Right-Side Camera
Surround-View Monitor

ADAS

1. Blind Spot Radar

- **Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)**
- **Dynamic Calibration (BSD Unit Alignment)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Cross-Traffic Alert on this vehicle.

The 2017 Kia Sorento repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 1 and 4)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/55186/component/7821/itype/387/nonstandard/3102926/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56614/component/7821/itype/387/nonstandard/3102926/selfRefLink/false>

Safety

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Kia Sorento repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Kia/Kia_Pre_and_Post_Diagnostic_Scanning_Related_To_Collision_Repairs.htm



December 13, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Toyota RAV4 LE
VIN: 2T3BFREV9HW553866

2 Required Safety Operations

There are 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Lane Departure Alert with Steering Assist
Pedestrian Impact Prevention
Pre-Collision System
Rear Camera

Safety

1. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2017 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53001/>

component/465/itype/15/nonstandard/211226/selfRefLink/
false

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm



December 13, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 BMW X3 xDrive30i
VIN: 5UXTY5C02M9E92435

2 Required Safety Operations

There are 2 Safety that BMW requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Blind Spot Detection
Cross-Traffic Alert Front and Rear
Daytime Pedestrian Detection
Frontal Collision Warning with City Collision Mitigation
Traffic Sign Recognition

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Evasion Assist System
Front Mounted Camera
Head-Up Display
Lane Departure Warning
Park Distance Control - Front and Rear Parking Sensors
Parking Assistant Plus - Automated Parking Assistance
Rear Camera
Rear Camera
Right-Side Camera
Surround-View Monitor
Traffic Jam Assistant

Safety

1. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2021 BMW X3 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62524/component/1285/itype/383/nonstandard/113881/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 BMW X3 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW%2C_Mini%2FPreliminary_Diagnostics_For_Collision_Repair.htm

December 12, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Jeep Wrangler Unlimited Sahara
VIN: 1C4HJXEG2MW843165

1 Required Safety Operation

There is 1 Safety that Jeep requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2021 Jeep Wrangler repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

December 12, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Volkswagen Jetta SE
VIN: 3VWEM7BU6NM034089

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Front Assist
Lane Departure Prevention
Pedestrian Monitoring
Rear Camera

Optional ADAS Features

Active Blind Spot System
Rear Collision Warning

ADAS



1. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go, Front Assist, and Pedestrian Monitoring on this vehicle.

The 2022 Volkswagen Jetta repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://erwin.vw.com/erwin/download.sealed?
articleId=185976](https://erwin.vw.com/erwin/download.sealed?articleId=185976)

Steering



2. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2022 Volkswagen Jetta repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://erwin.vw.com/erwin/download.sealed?
articleId=185986](https://erwin.vw.com/erwin/download.sealed?articleId=185986)



Safety

3. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2022 Volkswagen Jetta repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://erwin.vw.com/erwin/download.sealed?
articleId=185986](https://erwin.vw.com/erwin/download.sealed?articleId=185986)

4. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2022 Volkswagen Jetta repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://erwin.vw.com/erwin/download.sealed?
articleId=185986](https://erwin.vw.com/erwin/download.sealed?articleId=185986)

December 9, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Jeep Wrangler Unlimited Willys
VIN: 1C4HJXDN0MW710808

1 Required Safety Operation

There is 1 Safety that Jeep requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2021 Jeep Wrangler repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

December 9, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Volkswagen Beetle (Trim Not Selected)
VIN: 3VW7S7AT6FM807877

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning

Steering

1. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2015 Volkswagen Beetle repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54924/component/3399/itype/376/nonstandard/727403/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54924/component/6978/itype/376/nonstandard/730588/selfRefLink/false>

Safety

2. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2015 Volkswagen Beetle repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54924/component/728/itype/376/nonstandard/808896/>



selfRefLink/true

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54924/component/465/itype/383/nonstandard/730695/>
selfRefLink/true

3. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2015 Volkswagen Beetle repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54924/component/6978/itype/376/nonstandard/730588/>
selfRefLink/false



December 9, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 GMC Terrain Denali
VIN: 3GKALXEX3KL268593

- 1 Required ADAS Operation**
- 2 Required Safety Operations**
- 1 Required Operational Operation**

There are 1 ADAS, 2 Safety, and 1 Operational that GMC requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Lane Change Alert with Side Blind Zone Alert
Rear Cross-Traffic Alert
Rear Parking Sensors

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
Automated Parking Assistance
Following Distance Indicator
Forward Collision Alert
Forward Collision Mitigation
Front Mounted Camera
Front Pedestrian Braking
Lane Keep Assist with Lane Departure Warning
Rear Camera
Right-Side Camera
Surround-View Monitor

ADAS

1. Parking Sensors - Rear

- **Learn (Parking Assist Sensor Learn Calibration)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2019 GMC Terrain repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Parking Sensor - Rear is replaced (Line number 8)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59842/component/1283/itype/384/nonstandard/11282/selfRefLink/false>

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/gm-driver-assistance-systems-aid.pdf>

Safety

2. Repairs and Inspections Required After a Collision

- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2019 GMC Terrain repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 GMC Terrain repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

Operational

4. Power Trunk Lid/Liftgate

- **Learn (Garage Height Calibration)**
- **Learn (Liftgate Relearn)**

The 2019 GMC Terrain repair manual states that a operation is required for the Power Trunk Lid/Liftgate when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:



<https://my.alldata.com/repair/#/repair/article/59842/component/715/itype/387/nonstandard/10825/selfRefLink/false>



December 9, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Nissan Murano (Trim Not Selected)
VIN: 5N1AZ2MH0JN151331

2 Required Safety Operations

There are 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Automatic Emergency Braking

Optional ADAS Features

Blind Spot Warning
Front Mounted Camera
Intelligent Cruise Control
Rear Camera
Rear Cross-Traffic Alert
Right-Side Camera
Surround-View Monitor

Safety



1. Seatbelt System

- **Inspection (Seatbelt Inspection)**
- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**
- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**

The 2018 Nissan Murano repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58635/component/1285/itype/383/nonstandard/13780/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Nissan Murano repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/nissan/position-statements/24715.pdf>

December 9, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Honda Civic LX
VIN: 2HGFC2F59HH001883

3 Required Safety Operations

There are 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2017 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57011/component/6978/itype/383/nonstandard/103231/selfRefLink/false>



2. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2017 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57011/guid/nahn17CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57011/component/611/itype/15/nonstandard/102293/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2017 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

December 8, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Acura RDX w/A-Spec Pkg
VIN: 5J8TC2H66KL806906

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Information System
Collision Mitigation Braking System
Front and Rear Parking Sensors
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Monitor
Traffic Sign Recognition

ADAS

1. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors on this vehicle.

The 2019 Acura RDX repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 36)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59083/component/4/itype/387/nonstandard/11648/selfRefLink/false>

Safety

2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)**

The 2019 Acura RDX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59083/component/6978/itype/383/nonstandard/12004/>

selfRefLink/false

3. SRS Unit

- **Inspection (Read SRS Deployment History)**

The 2019 Acura RDX repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59083/guid/na-au19rdx_tjb-T003209_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59083/component/611/itype/15/nonstandard/11471/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2019 Acura RDX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

December 8, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Nissan Kicks SV
VIN: 3N1CP5CU3KL526913

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Automatic Emergency Braking
Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert

Optional ADAS Features

Rear Parking Sensors

ADAS

1. Front Radar

- **Static Calibration (ICC Sensor Alignment)**

The Front Radar is responsible for Automatic Emergency Braking on this vehicle.

The 2019 Nissan Kicks repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 2 and 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60160/component/3/itype/5/nonstandard/12534/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/nissan/position-statements/24718.pdf>

Safety

2. Seatbelt System

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

- **Inspection (Seatbelt Inspection)**

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**

The 2019 Nissan Kicks repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60160/component/1285/itype/383/nonstandard/12812/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Nissan Kicks repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/nissan/position-statements/24715.pdf>

December 8, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Subaru Crosstrek Premium
VIN: JF2GPADC6GH306797

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Lane Departure Warning
Rear Camera

Optional ADAS Features

Adaptive Cruise Control
Blind Spot Warning
Forward Collision Mitigation
Rear Collision Warning

ADAS

1. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Camera adjustment and function check)**

The Windshield Camera(s) is responsible for Lane Departure Warning on this vehicle.

The 2016 Subaru Crosstrek repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56022/component/6798/itype/376/nonstandard/15450/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56022/component/1283/itype/15/nonstandard/11488/selfRefLink/false>

Steering



2. Vehicle Dynamic Control

- **Midpoint Setting (VDC Control Module Adjustment)**

The 2016 Subaru Crosstrek repair manual states that a operation is required for the Vehicle Dynamic Control when the following occurs:

- Alignment - Four Wheel is repaired (Line number 56)
- Alignment - Front End is repaired (Line number 56)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/56022/guid/nasb16impcros-S402744a01_html



Safety

3. Vehicle Electronics

- **Inspection (Safety System Inspection After a Collision)**

The 2016 Subaru Crosstrek repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56022/component/6978/itype/383/nonstandard//selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2016 Subaru Crosstrek repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre_and_Post_Scanning_of_Collision_Vehicles.htm



December 8, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Ford C-MAX Titanium
VIN: 1FADP5FU7HL110497

- 1 Required ADAS Operation**
- 2 Required Safety Operations**
- 1 Required Operational Operation**

There are 1 ADAS, 2 Safety, and 1 Operational that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Park Assist
Rear Camera
Rear Parking Sensors

Optional ADAS Features

BLIS - Blind Spot Warning
Rear Cross-Traffic Alert

ADAS

1. Parking Sensors - Rear

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**

The Parking Sensors - Rear is responsible for Active Park Assist and Rear Parking Sensors on this vehicle.

The 2017 Ford C-MAX repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 52, 53, and 69)
- Parking Sensor - Rear is installed (Line number 59 and 61)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56805/component/1283/itype/383/nonstandard/10891/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56805/component/7300/itype/402/nonstandard/11103/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56805/component/3716/itype/401/nonstandard/10301/selfRefLink/false>

Safety

2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2017 Ford C-MAX repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56805/component/1285/itype/377/nonstandard/10642/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Ford C-MAX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

Operational

4. Power Trunk Lid/Liftgate

• Initialization (Power Liftgate Initialization)

The 2017 Ford C-MAX repair manual states that a operation is required for the Power Trunk Lid/Liftgate when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 30)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56805/component/715/itype/387/nonstandard/10765/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56805/component/715/itype/401/nonstandard/10237/selfRefLink/false>

December 8, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Ford F-150 LARIAT
VIN: 1FTEX1CP4MKE26560

4 Required ADAS Operations 3 Required Safety Operations

There are 4 ADAS and 3 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Stop and Go
- Blind Spot Warning
- Ford Co-Pilot360 - Active Park Assist 2.0
- Forward and Reverse Sensing System
- Lane Departure Prevention
- Pedestrian Impact Prevention
- Rear Camera with Dynamic Hitch Assist
- Rear Collision Mitigation
- Right-Side Camera
- Surround-View Monitor

Optional ADAS Features

- Evasion Assist System
- Ford Co-Pilot360 - Pre-Collision Assist with Automatic Emergency Braking
- Front Cross-Traffic Alert
- Front Mounted Camera
- Pro-Trailer Backup Assist
- Rear Parking Sensors
- Traffic Sign Recognition with Speed Limiter

ADAS

1. Active Park Assist Sensors

- **Operation Check (Azimuth System Check)**

The Active Park Assist Sensors is responsible for Ford Co-Pilot360 - Active Park Assist 2.0 on this vehicle.

The 2021 Ford F-150 repair manual states that a operation is required for the Active Park Assist Sensors when the following occurs:

- Front bumper is installed (Line number 1, 2, 7, and 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2161154_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62254/component/7309/itype/401/nonstandard/10671/selfRefLink/false>

2. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**

- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2021 Ford F-150 repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision
- Front bumper is installed (Line number 1, 2, 7, and 13)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2165784_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62254/component/7309/itype/401/nonstandard/10671/selfRefLink/false>

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

3. Parking Sensors - Front

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**

The Parking Sensors - Front is responsible for Ford Co-Pilot360 - Active Park Assist 2.0 and Forward and Reverse Sensing System on this vehicle.

The 2021 Ford F-150 repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1, 2, 7, and 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2160984_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62254/component/7309/itype/401/nonstandard/10671/selfRefLink/false>

4. Surround-View Monitor Cameras

- **Dynamic Calibration (360-Degree View Camera Alignment)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2021 Ford F-150 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is repaired (Line number 1, 2, and 7)
- Front bumper is installed (Line number 1, 2, 7, and 13)
- Grille is installed (Line number 8 and 16)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2160994_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62254/component/1283/itype/392/nonstandard/10243/selfRefLink/false>

Safety



5. Headlight Assembly - Programming Required if Attached Control Modules are also Replaced

- **Initialization (LED Lamp Driver Module Initialization)**

The 2021 Ford F-150 repair manual states that a operation is required for the Headlight Assembly - Programming Required if Attached Control Modules are also Replaced when the following occurs:

- Headlamp is replaced (Line number 17)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62254/component/896/itype/401/nonstandard/11822/selfRefLink/false>

6. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2021 Ford F-150 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62254/guid/nafm21f150-g2152543_html

7. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2021 Ford F-150 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>



December 8, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Ram 1500 Rebel
VIN: 1C6SRFLT5NN403917

1 Required Safety Operation

There is 1 Safety that Ram requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision Mitigation
Rear Camera

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Safety and Security System Diagnostic Code Assessment)

The 2022 Ram 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-)

document.pdf



> adasThink



December 8, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Ford Escape SEL
VIN: 1FMCU9H9XDUB72491

2 Required Safety Operations

There are 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Automated Parking Assistance
Blind Spot Warning
Forward Collision Warning
Rear Parking Sensors

Safety



1. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2013 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52016/component/1285/itype/377/nonstandard/1736896/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

December 8, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 BMW X3 xDrive35i
VIN: 5UXWX7C53DL977335

2 Required Safety Operations

There are 2 Safety that BMW requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Forward Collision Warning
Front and Rear Parking Sensors
Front Mounted Camera
Head-Up Display
Lane Departure Warning
Rear Camera
Right-Side Camera
Surround-View Monitor

Safety

1. Seatbelt System

- **Inspection (Seatbelts Condition and Function Check)**

The 2013 BMW X3 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52079/component/1285/itype/383/nonstandard/111364/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 BMW X3 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FBMW%2C_Mini%2FPreliminary_Diagnostics_For_Collision_Repair.htm

December 8, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Honda Civic Si
VIN: 2HGFB6E59FH200778

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Right-Side Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Unit Operation Check)
- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2015 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

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<https://my.alldata.com/repair/#/repair/article/54962/component/3504/itype/383/nonstandard/11306/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2015 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



December 8, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Mazda CX-3 GS
VIN: JM1DKFC79L1472400

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Mazda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Mitigation
Rear Camera
Rear Cross-Traffic Alert

ADAS



1. Front Radar

- **Static Calibration (Radar Aiming)**

The 2020 Mazda CX-3 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 5 and 6)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61283/component/1246/itype/401/nonstandard/14288/selfRefLink/true>

Steering

2. TPMS

- **Initialization + 20-Minute Drive Cycle (TPMS Initialization)**

The 2020 Mazda CX-3 repair manual states that a operation is required for the TPMS when the following occurs:

- Wheel is replaced (Line number 58)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/61283/guid/natk20cx3dk-SM1656134_html

Safety

3. Seat Weight Sensor

- **Occupant Sensor Calibration (DTC Inspection & Calibration)**

The 2020 Mazda CX-3 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61282/guid/natk20cx3dk-SM1263050_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61282/component/3504/itype/387/nonstandard/12735/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2020 Mazda CX-3 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Mazda/Pre-_and_Post-Repair_Scanning.htm

December 7, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Acura TLX Elite A-Spec
VIN: 19UUB3F82JA800094

2 Required Safety Operations

There are 2 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Blind Spot Information System
Collision Mitigation Braking System
Front and Rear Parking Sensors
Front Mounted Camera
Lane Keeping Assist System
Rear Camera
Rear Cross-Traffic Monitor
Right-Side Camera
Surround-View Monitor

Safety



1. Seat Weight Sensor

- **Operation Check (Front Passenger Weight Sensor Output Check After a Vehicle Collision)**

The 2018 Acura TLX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57706/component/6978/itype/383/nonstandard/103436/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2018 Acura TLX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

December 7, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Volkswagen Passat (Trim Not Selected)
VIN: 1VWAS7A30FC028921

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Rear Camera

Steering

1. Wheel Alignment

• **Wheel Alignment (Four Wheel Alignment)**

The 2015 Volkswagen Passat repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54939/component/3399/itype/376/nonstandard/750588/selfRefLink/true>

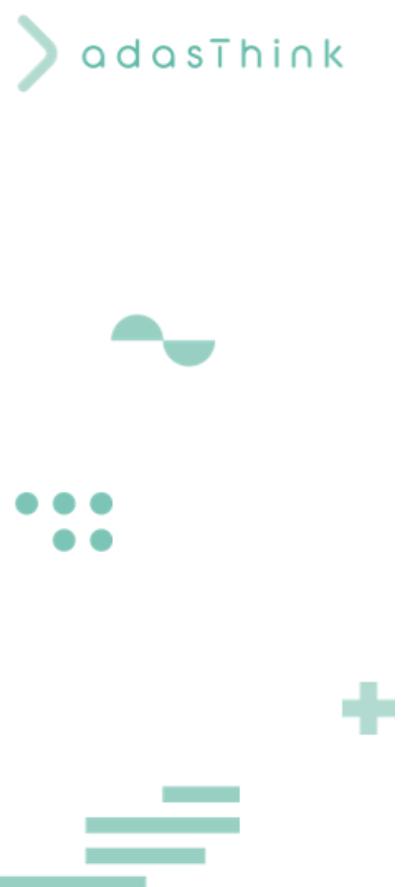
OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54939/component/1237/itype/376/nonstandard/750475/selfRefLink/true>

Safety

2. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**



The 2015 Volkswagen Passat repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56229/component/728/itype/376/nonstandard/808896/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56229/component/1285/itype/383/nonstandard/730501/selfRefLink/false>

3. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2015 Volkswagen Passat repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54939/component/1237/itype/376/nonstandard/750475/selfRefLink/true>



December 6, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Honda Accord EX-L
VIN: 1HGCR2F83HA800245

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Right-Side Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2017 Honda Accord repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57008/component/6978/itype/383/nonstandard/13231/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2017 Honda Accord repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

December 5, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Lexus ES (Trim Not Selected)
VIN: 58ABZ1B15KU040875

3 Required ADAS Operations 2 Required Safety Operations

There are 3 ADAS and 2 Safety that Lexus requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Forward Collision Mitigation
- Front and Rear Parking Sensors
- Lane Departure Alert with Steering Assist
- Pedestrian Impact Prevention
- Right-Side Camera
- Surround-View Monitor
- Traffic Sign Recognition

Optional ADAS Features

- Blind Spot Warning
- Front Mounted Camera
- Head-Up Display
- Rear Camera
- Rear Collision Mitigation
- Rear Collision Warning
- Rear Parking Sensors

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2019 Lexus ES repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1 and 2)
- Front bumper is installed (Line number 1 and 6)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/62175/guid/nalx2019-2021esh-RM100000001C288_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/62175/component/872/itype/401/nonstandard/112059/selfRefLink/false>

2. Parking Sensors - Front

- **Check Installation Angle (Sensor Height and Alignment Inspection)**
- **Static Calibration (Registration)**

The Parking Sensors - Front is responsible for Front and Rear Parking Sensors on this vehicle.

The 2019 Lexus ES repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1 and 6)
- Front bumper is repaired (Line number 1 and 2)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62175/guid/na-lx2019-2021esh-RM100000001C6LE_html

3. Surround-View Monitor Cameras

- **Static Calibration (Panoramic View Monitor System - Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2019 Lexus ES repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1 and 6)
- Front View Camera is installed (Line number 7)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/62175/guid/na-lx2019-2021esh-RM100000001C6NW_html

Safety

4. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2019 Lexus ES repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62175/component/465/itype/15/nonstandard/118098/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Health Check Diagnostic Scans)**

The 2019 Lexus ES repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm

December 5, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Honda Passport TrailSport
VIN: 5FNYF8H66NB500679

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Blind Spot Warning
- Collision Mitigation Braking System
- Collision Mitigation Braking System with Forward Collision Warning
- Front and Rear Parking Sensors
- Lane Keeping Assist System
- Rear Camera
- Rear Collision Warning

ADAS

1. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors on this vehicle.

The 2022 Honda Passport repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Parking Sensor - Rear is replaced (Line number 23, 26, and 28)
- Rear bumper is installed (Line number 24, 27, and 29)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62143/component/871/itype/387/nonstandard/12389/selfRefLink/true>

Safety

2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2022 Honda Passport repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62143/component/6978/itype/383/nonstandard/12496/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2022 Honda Passport repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



December 5, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Audi A6 3.0L TDI Technik
VIN: WAUJMCFC4FN010454

3 Required ADAS Operations
1 Required Steering Operation
2 Required Safety Operations

There are 3 ADAS, 1 Steering, and 2 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Audi Pre Sense Rear
Audi Side Assist
Front and Rear Parking Sensors
Front Mounted Camera
Night Vision
Rear Camera
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Forward Collision Mitigation
Forward Collision Warning
Head-Up Display
Lane Departure Prevention
Pedestrian Detection Warning

ADAS



1. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2015 Audi A6 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 3)
- Front bumper is installed (Line number 3, 4, and 10)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54869/component/1246/itype/387/nonstandard/898045/selfRefLink/false>

2. Night Vision

- **Static Calibration (Infrared System Calibration)**



The Night Vision is responsible for Night Vision on this vehicle.

The 2015 Audi A6 repair manual states that a operation is required for the Night Vision when the following occurs:

- Front bumper is installed (Line number 3, 4, and 10)
- Grille is installed (Line number 9)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54869/component/1283/itype/387/nonstandard/898046/selfRefLink/false>

3. Surround-View Monitor Cameras

- **Static Calibration (Peripheral Camera Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2015 Audi A6 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 3, 4, and 10)
- Front bumper is replaced (Line number 4)
- Grille is installed (Line number 9)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54869/component/1283/itype/401/nonstandard/951960/selfRefLink/false>

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54869/component/1283/itype/401/nonstandard/951946/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54869/component/1283/itype/401/nonstandard/951945/selfRefLink/false>

Steering

4. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2015 Audi A6 repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54869/component/3399/itype/376/nonstandard/859506/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54869/component/3399/itype/392/nonstandard/859474/selfRefLink/false>

Safety

5. Seatbelt System

- **Check Installation Angle (Seatbelts Condition and Function Check)**

The 2015 Audi A6 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54869/component/6978/itype/376/nonstandard/878884/>



selfRefLink/false

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54869/component/1285/itype/15/nonstandard/878826/>
selfRefLink/false

6. Vehicle Electronics

- OEM Pre-Scan (Airbag Control Module Crash Entry Check)
- Inspection (Seatbelts Condition and Function Check)

The 2015 Audi A6 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54869/component/6978/itype/376/nonstandard/878882/>
selfRefLink/false

December 2, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Ford Escape SEL
VIN: 1FMCU0H94DUD90101

2 Required Safety Operations

There are 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Automated Parking Assistance
Blind Spot Warning
Forward Collision Warning
Rear Parking Sensors

Safety



1. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2013 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52016/component/1285/itype/377/nonstandard/1736896/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

December 2, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Acura MDX Tech
VIN: 5J8YD4H49LL801603

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Low-Speed Follow
- Blind Spot Information System
- Collision Mitigation Braking System
- Front and Rear Parking Sensors
- Lane Keeping Assist System
- Pedestrian Impact Prevention
- Rear Camera
- Rear Cross-Traffic Monitor

ADAS

1. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors on this vehicle.

The 2020 Acura MDX repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 3, 4, 7, and 8)
- Parking Sensor - Rear is replaced (Line number 6)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60724/component/3715/itype/387/nonstandard/12593/selfRefLink/true>

Safety

2. Seat Weight Sensor

- **Operation Check (Front Passenger Weight Sensor Output Check After a Vehicle Collision)**

The 2020 Acura MDX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60724/>

component/3504/itype/383/nonstandard/12549/
selfRefLink/true

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2020 Acura MDX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



December 2, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Honda CR-V Sport
VIN: 2HKRW2H40MH219025

3 Required ADAS Operations 3 Required Safety Operations

There are 3 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Front and Rear Parking Sensors
Lane Departure Prevention
Rear Camera
Right-Side Camera

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Aiming)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2021 Honda CR-V repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1 and 2)
- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62409/component/4037/itype/387/nonstandard/12983/selfRefLink/true>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

2. Parking Sensors - Front

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Front is responsible for Front and Rear Parking Sensors on this vehicle.

The 2021 Honda CR-V repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1 and 6)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62409/component/4/itype/387/nonstandard/13053/selfRefLink/true>

3. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Lane Departure Prevention on this vehicle.

The 2021 Honda CR-V repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/62409/component/1283/itype/387/nonstandard/12658/selfRefLink/true>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

Safety

4. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2021 Honda CR-V repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62409/component/6978/itype/383/nonstandard/12364/selfRefLink/true>

5. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2021 Honda CR-V repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61TLA&lang=enu&sie=T001246_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61TLA&lang=enu&sie=G001210_enu

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2021 Honda CR-V repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



December 2, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Honda Civic Touring
VIN: 2HGFB2F75EH016591

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Right-Side Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Unit Operation Check)
- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2014 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

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<https://my.alldata.com/repair/#/repair/article/54191/component/3504/itype/383/nonstandard/11304/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2014 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



December 1, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Toyota RAV4 XLE
VIN: 2T3WFREV5JW409349

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Forward Collision Mitigation
Lane Departure Alert
Pedestrian Impact Prevention
Rear Camera

Optional ADAS Features

Blind Spot Monitor
Front and Rear Parking Sensors
Rear Cross-Traffic Alert

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2018 Toyota RAV4 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 1)
- Fender is repaired (Line number 4)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58323/guid/natty2013-2018rav4-RM100000000PH3Q_html

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58323/component/4037/itype/401/nonstandard/215124/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58323/component/7309/itype/401/nonstandard/216133/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58323/component/7309/itype/401/nonstandard/216129/selfRefLink/false>

Safety



2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2018 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53001/component/465/itype/15/nonstandard/211226/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm

December 1, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Toyota RAV4 Limited
VIN: 2T3D1RFV3MW146738

3 Required ADAS Operations 3 Required Safety Operations

There are 3 ADAS and 3 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Monitor with Lane Change Assist
Dynamic Radar Cruise Control
Front and Rear Parking Sensors
Front Mounted Camera
Lane Departure Alert with Steering Assist
Lane Tracing Assist
Pre-Collision System with Pedestrian Detection
Rear Camera
Rear Collision Mitigation
Right-Side Camera
Surround-View Monitor
Toyota Safety Sense (TSS) 2.0

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Dynamic Radar Cruise Control, Pre-Collision System with Pedestrian Detection, and Toyota Safety Sense (TSS) 2.0 on this vehicle.

The 2021 Toyota RAV4 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1 and 2)
- Front bumper is installed (Line number 1, 2, and 15)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61251/guid/na-ty2019-2022rav4-RM10000001HJTF_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/7309/itype/401/nonstandard/120186/selfRefLink/false>

2. Parking Sensors - Front

- **Static Calibration (Registration)**

- **Check Installation Angle (Sensor Height and Alignment Inspection)**

The Parking Sensors - Front is responsible for Front and Rear Parking Sensors on this vehicle.

The 2021 Toyota RAV4 repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1, 2, and 15)

- Front bumper is repaired (Line number 1)
- Parking Sensor - Front is installed (Line number 4)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/61251/guid/naty2019-2022rav4-RM10000001FXS1_html

3. Surround-View Monitor Cameras

- **Static Calibration (Panoramic View Monitor System - Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2021 Toyota RAV4 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1, 2, and 15)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/61251/guid/naty2019-2022rav4-RM10000001FRE0_html

Safety

4. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2021 Toyota RAV4 repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/1236/itype/387/nonstandard/117923/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61251/component/611/itype/15/nonstandard/120929/selfRefLink/false>

5. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2021 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61251/component/465/itype/15/nonstandard/114942/selfRefLink/false>

6. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2021 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



November 29, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Buick Regal Premium I
VIN: 2G4GN5EX5H9139136

2 Required Safety Operations

There are 2 Safety that Buick requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Safety

1. Repairs and Inspections Required After a Collision

- Operation Check (Emergency Locking Retractor Dynamic Function Test)
- Inspection (Post Collision Safety Inspection)

The 2017 Buick Regal repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:



<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Buick Regal repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

November 29, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Lexus IS (Trim Not Selected)
VIN: JTHBA1D27H5051919

- 1 Required ADAS Operation**
- 2 Required Steering Operations**
- 2 Required Safety Operations**

There are 1 ADAS, 2 Steering, and 2 Safety that Lexus requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Forward Collision Mitigation
Lane Departure Warning

Optional ADAS Features

Blind Spot Warning
Intuitive Park Assist - Front and Rear Parking Sensors
Rear Camera
Rear Cross-Traffic Alert

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2017 Lexus IS repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 2, 3, and 10)
- Front bumper is repaired (Line number 2 and 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57257/guid/na-lx2014-2022is-RM100000010MQU_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57257/component/7309/itype/401/nonstandard/318315/selfRefLink/false>

Steering

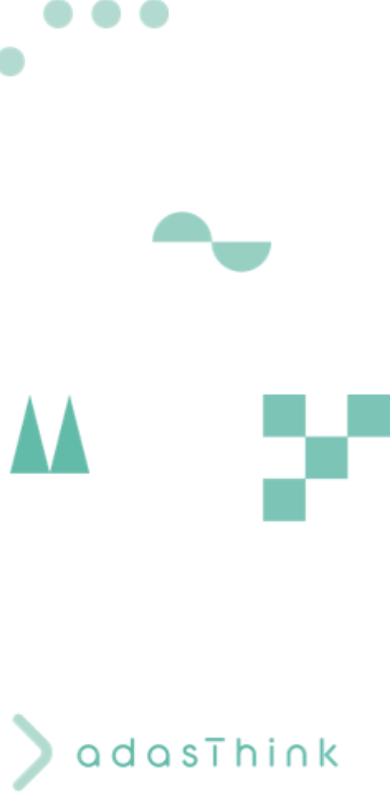
2. TPMS

- **Programming (Code Registration and Initialization)**

The 2017 Lexus IS repair manual states that a operation is required for the TPMS when the following occurs:

- TPMS Sensor is replaced (Line number 19)

Please see the documentation from the manufacturer below.



OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57257/guid/na-lx2014-2022is-RM1000000006FA7_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57257/component/2353/itype/401/nonstandard/311463/selfRefLink/false>

3. Vehicle Stability Control Sensor

- Reset (Yaw Rate and Acceleration Sensor Zero Point Calibration)**

The 2017 Lexus IS repair manual states that a operation is required for the Vehicle Stability Control Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 30)
- Front End Alignment is repaired (Line number 30)

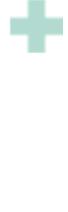
Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57257/guid/na-lx2014-2022is-RM100000011KBL_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57257/component/3399/itype/376/nonstandard/318144/selfRefLink/false>



Safety

4. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2017 Lexus IS repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57257/component/465/itype/15/nonstandard/311602/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Health Check Diagnostic Scans)**

The 2017 Lexus IS repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm

November 29, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Toyota 4Runner TRD Sport
VIN: JTESU5JR7N6041541

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Dynamic Radar Cruise Control
Lane Departure Alert
Pre Collision System with Pedestrian Detection
Pre-Collision System
Rear Camera

Optional ADAS Features

Blind Spot Monitor
Rear Cross-Traffic Alert

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Dynamic Radar Cruise Control, Pre Collision System with Pedestrian Detection, and Pre-Collision System on this vehicle.

The 2022 Toyota 4Runner repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 1, 5, and 9)
- Front bumper is repaired (Line number 1 and 5)
- Wave Radar Sensor is installed (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/63033/guid/natty2016-20224runn-RM100000001JFWL_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/63033/component/7309/itype/401/nonstandard/116902/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/63033/component/4037/itype/401/nonstandard/116898/selfRefLink/false>

Safety



2. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2022 Toyota 4Runner repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/63033/component/1236/itype/387/nonstandard/113400/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/63033/component/611/itype/15/nonstandard/115656/selfRefLink/false>

3. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2022 Toyota 4Runner repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/63033/component/465/itype/15/nonstandard/113613/selfRefLink/false>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2022 Toyota 4Runner repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm



November 29, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Honda Odyssey (Trim Not Selected)
VIN: 5FNRL6H61NB500011

3 Required ADAS Operations 3 Required Safety Operations

There are 3 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Collision Mitigation Braking System with Forward Collision Warning
Front and Rear Parking Sensors
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera
Right-Side Camera
Traffic Sign Recognition

ADAS

1. Front Radar

• Static Calibration (Millimeter Wave Radar - Aim)

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2022 Honda Odyssey repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/RJANISIS/pubs/sm/1/2/Contents/enu/61THRD/RIN/SCT/SC/SYS/R006807_enu/web/html/R006807_enu.html?m=THR&k=pubs/sm/1/2/Contents/enu/61THRD/RIN/SCT/SC/SYS/R006807_enu/web/html/R006807_enu&p=SM&t=H&model=ODYSSEY&year=2021&dbkey=61THRD_R006807_enu&country=1&language=0

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193.pdf>



2. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors on this vehicle.

The 2022 Honda Odyssey repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 8)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/service_info.html?package=61THR&lang=enu&sie=R003280_enu

3. Windshield Camera(s)

- **Static Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System with Forward Collision Warning and Lane Keeping Assist System on this vehicle.

The 2022 Honda Odyssey repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/RJANISIS/pubs/sm/1/2/Contents/enu/61THR/RIN/SCT/SC/SYS/R006806_enu/web/html/R006806_enu.html?m=THR&k=pubs/sm/1/2/

Contents/enu/61THRD/RIN/SCT/SC/SYS/R006806_enu/web/html/R006806_enu&p=SM&t=H&model=ODYSSEY&year=2021&dbkey=61THRD_R006806_enu&country=1&language=0

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193.pdf>

Safety

4. Seat Weight Sensor

• Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2022 Honda Odyssey repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/RJANISIS/pubs/sm/1/2/Contents/enu/61THRD/RIN/SCT/SC/SYS/R003421_enu/web/html/R003421_enu.html?m=THRD&k=pubs/sm/1/2/Contents/enu/61THRD/RIN/SCT/SC/SYS/R003421_enu/web/html/R003421_enu&p=SM&t=H&model=ODYSSEY&year=2021&dbkey=61THRD_R003421_enu&country=1&language=0

5. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2022 Honda Odyssey repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61THR&lang=enu&sie=T004552_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61THR&lang=enu&sie=G003415_enu

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2022 Honda Odyssey repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision-post-collision_diagnostic_scans_ps_072116.pdf

November 29, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Chevrolet Cruze LT
VIN: 1G1PF5SB8G7216987

2 Required Safety Operations

There are 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert
Rear Parking Sensors

Safety



1. Repairs and Inspections Required After a Collision

- **Inspection (Post Collision Safety Inspection)**
- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2016 Chevrolet Cruze repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2016 Chevrolet Cruze repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

November 28, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Toyota Corolla (Trim Not Selected)
VIN: 2T1BURHE2JC120133

2 Required Safety Operations

There are 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Dynamic Radar Cruise Control
Forward Collision Mitigation
Lane Departure Alert
Pedestrian Impact Prevention
Rear Camera

Optional ADAS Features

Lane Departure Alert with Steering Assist
Pre Collision System with Pedestrian Detection
Toyota Safety Sense P

Safety

1. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2018 Toyota Corolla repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58306/component/465/itype/383/nonstandard/212061/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58306/component/465/itype/383/nonstandard/212057/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Toyota Corolla repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

November 28, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Toyota Camry (Trim Not Selected)
VIN: 4T1BF1FK1FU488751

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Lane Departure Warning
Rear Camera

Optional ADAS Features

Adaptive Cruise Control
Blind Spot Warning
Forward Collision Warning
Rear Collision Warning

ADAS

1. Windshield Camera(s)

- **Static Calibration (Front Camera - Adjustment)**

The Windshield Camera(s) is responsible for Lane Departure Warning on this vehicle.

The 2015 Toyota Camry repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/54403/guid/nty15camry-RM000002QO702IX_html#RM000002QO702IX_02_0001

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54403/component/7848/itype/401/nonstandard/113631/selfRefLink/false>

Safety

2. Seat Weight Sensor

- **Reset (Zero Point Calibration and Sensitivity Check)**

The 2015 Toyota Camry repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54401/component/1236/itype/387/nonstandard/111471/selfRefLink/true>

3. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2015 Toyota Camry repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54401/component/465/itype/15/nonstandard/111632/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2015 Toyota Camry repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

November 25, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Honda Accord EX-L
VIN: 1HGCV1F53LA803098

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Warning
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Rear Camera
Rear Cross-Traffic Alert
Road Departure Mitigation
Traffic Sign Recognition

Optional ADAS Features

Rear Parking Sensors

ADAS

1. Windshield Camera(s)

• Static Calibration (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Collision Mitigation Braking System with Forward Collision Warning, and Road Departure Mitigation on this vehicle.

The 2020 Honda Accord repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is installed (Line number 1 and 4)
- Lane Departure Camera is installed (Line number 2)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60873/component/1283/itype/387/nonstandard/13129/selfRefLink/false>

Safety

2. Seat Weight Sensor

• Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2020 Honda Accord repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:



<https://my.alldata.com/repair/#/repair/article/60873/component/6978/itype/383/nonstandard/13318/selfRefLink/false>

3. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2020 Honda Accord repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60873/guid/nah20accord_hybrid_twa-T004647_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60873/component/611/itype/15/nonstandard/12570/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2020 Honda Accord repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://owners.honda.com/collision/static/pdfs/collision/>

post-collision_diagnostic_scans_ps_072116.pdf



November 25, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Volkswagen Atlas 3.6L V6 SEL R-Line
VIN: 1V2RR2CA5KC543700

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot System
- Adaptive Cruise Control with Stop and Go
- Forward Collision Warning with Automatic Emergency Braking
- Lane Assist
- Park Distance Control - Front and Rear Parking Sensors
- Pedestrian Monitoring
- Rear Camera
- Rear Collision Warning

Steering



1. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2019 Volkswagen Atlas repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57669/component/6978/itype/376/nonstandard/210877/selfRefLink/false>



Safety

2. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2019 Volkswagen Atlas repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57669/component/1285/itype/383/nonstandard/211377/selfRefLink/false>



3. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2019 Volkswagen Atlas repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57669/component/6978/itype/376/nonstandard/210877/selfRefLink/false>



November 25, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 GMC Canyon 4WD Denali
VIN: 1GTP6EE18N1171351

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that GMC requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision Alert
Lane Departure Warning
Rear Camera

Optional ADAS Features

Rear Parking Sensors

ADAS

1. Windshield Camera(s)

- **Dynamic Calibration (Front View Camera Module Learn)**

The Windshield Camera(s) is responsible for Forward Collision Alert and Lane Departure Warning on this vehicle.

The 2022 GMC Canyon repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 6)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://gsitlc.ext.gm.com/gsi/cellHandler.do?cellId=283712&refDoc=4866860&pubName=Canyon,%20Colorado%20Service%20Manual%2015145166&pubSubSectionName=&svcInfoTypeQualSyskey=0&pubSectionName=&bullTypeKey=-1&language=1&cellId=294182&docSyskey=4866860&deliverySitTitleDesc=&pubObjSyskey=15778823&pubSubSectionSyskey=-1&vehicleSyskey=100319977&deliverySitTitleSyskey=0&bullTypeName=&pubTypeSyskey=1&pubSyskey=15145166&svcInfoTypeQualDesc=&pubSectionSyskey=-1&name=&pubCellSyskey=1577822&vin=&from=Control%20Module%20References®ion=1&laborOpCode=null&windowID=si37932121>

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/gm-driver-assistance-systems-aid.pdf>

Safety



2. Repairs and Inspections Required After a Collision

- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2022 GMC Canyon repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 GMC Canyon repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

November 25, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Lexus IS Base (A6)
VIN: JTHCE1D21F5009848

2 Required Safety Operations

There are 2 Safety that Lexus requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Adaptive Cruise Control
Blind Spot Warning
Forward Collision Mitigation
Front and Rear Parking Sensors
Lane Departure Warning
Rear Camera
Rear Collision Warning

Safety

1. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2015 Lexus IS repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54536/component/465/itype/15/nonstandard/311602/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Health Check Diagnostic Scans)**

The 2015 Lexus IS repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm

November 25, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Toyota Corolla XSE
VIN: 5YFB4RBE4LP029599

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Blind Spot Warning
- Full-Speed Range Dynamic Radar Cruise Control
- Lane Departure Alert with Steering Assist
- Lane Tracing Assist
- Pre-Collision System
- Pre-Collision System with Pedestrian Detection
- Rear Camera

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Adaptive Cruise Control, Full-Speed Range Dynamic Radar Cruise Control, Pre-Collision System, and Pre-Collision System with Pedestrian Detection on this vehicle.

The 2020 Toyota Corolla repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 4 and 5)
- Front bumper is installed (Line number 4, 5, and 22)
- Wave Radar Sensor is installed (Line number 32)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60332/guid/na-ty2019-2022corol-RM100000001GHVY_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60332/component/7309/itype/401/nonstandard/419215/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60332/component/872/itype/401/nonstandard/416813/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60332/component/872/itype/401/nonstandard/416817/selfRefLink/false>



Safety

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2020 Toyota Corolla repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60332/component/465/itype/15/nonstandard/414416/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Toyota Corolla repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

November 24, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Toyota Corolla (Trim Not Selected)
VIN: 2T1BURHE8HC755366

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Lane Departure Alert with Steering Assist
Pedestrian Impact Prevention
Pre-Collision System
Rear Camera

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Adaptive Cruise Control and Pre-Collision System on this vehicle.

The 2017 Toyota Corolla repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 4)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/56652/guid/natty2014-2019corol-RM100000000YXM1_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56652/component/7309/itype/401/nonstandard/215653/selfRefLink/true>

Steering

2. Yaw Rate and Acceleration Sensor

- **Reset (Yaw Rate and Acceleration Sensor Zero Point Calibration)**

The 2017 Toyota Corolla repair manual states that a operation is required for the Yaw Rate and Acceleration Sensor when the following occurs:

- Four Wheel Alignment is repaired (Line number 58)
- Front End Alignment is repaired (Line number 58)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/56652/guid/natty2014-2019corol-RM100000000YQY0_html

Safety

3. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2017 Toyota Corolla repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56652/component/1285/itype/383/nonstandard/212052/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Toyota Corolla repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



[https://my.alldata.com/ColRef/Collision_Reference.htm?
slInfo=0x3c79b#t=Position_Statements%2FToyota
%2C_Lexus%2C_Scion
%2FCRIB___191_Scanning_for_Electrical_Faults.htm](https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm)



November 24, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Subaru Crosstrek Premium
VIN: JF2GTABC8JH247970

2 Required ADAS Operations
1 Required Steering Operation
3 Required Safety Operations

There are 2 ADAS, 1 Steering, and 3 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

EyeSight - Adaptive Cruise Control
EyeSight - Lane Keep Assist
EyeSight - Pre-Collision Braking
EyeSight - Pre-Collision Braking
Rear Camera

Optional ADAS Features

Blind Spot Detection
Rear Cross-Traffic Alert

ADAS

1. Eyesight

- **Reset (Clear Active Lane Keep System Learning Value)**

The Eyesight is responsible for EyeSight - Adaptive Cruise Control, EyeSight - Lane Keep Assist, and EyeSight - Pre-Collision Braking on this vehicle.

The 2018 Subaru Crosstrek repair manual states that a operation is required for the Eyesight when the following occurs:

- Front End Alignment is repaired (Line number 44)
- Four Wheel Alignment is repaired (Line number 44)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/57686/guid/nasb18impcros-s036c87a16_html

2. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Camera adjustment and function check)**

The Windshield Camera(s) is responsible for EyeSight - Adaptive Cruise Control, EyeSight - Lane Keep Assist, EyeSight - Pre-Collision Braking, and EyeSight - Pre-Collision Braking on this vehicle.

The 2018 Subaru Crosstrek repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:



<https://my.alldata.com/repair/#/repair/article/57686/component/6798/itype/376/nonstandard/14977/selfRefLink/true>



OEM procedure requirement:



<https://my.alldata.com/repair/#/repair/article/57686/component/1283/itype/15/nonstandard/10158/selfRefLink/false>

Steering

3. Vehicle Dynamic Control

- **Midpoint Setting (VDC Control Module Adjustment)**



The 2018 Subaru Crosstrek repair manual states that a operation is required for the Vehicle Dynamic Control when the following occurs:

- Front End Alignment is repaired (Line number 44)
- Four Wheel Alignment is repaired (Line number 44)

Please see the documentation from the manufacturer below.



OEM procedure requirement and instructions:



<https://my.alldata.com/repair/#/repair/article/57686/component/1026/itype/5/nonstandard/13264/selfRefLink/false>

Safety

4. Occupant Sensor

- OEM Pre-Scan (Read Airbag module, check for DTC B1650 or B1655)

The 2018 Subaru Crosstrek repair manual states that a operation is required for the Occupant Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57686/guid/nasb18impcros-s067501e45_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57686/component/6978/itype/376/nonstandard/14045/selfRefLink/true>

5. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2018 Subaru Crosstrek repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre-_and_Post-_Scanning_of_Collision_Vehicles.htm

6. Vehicle Electronics

- **Inspection (Safety System Inspection After a Collision)**

The 2018 Subaru Crosstrek repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57686/component/6978/itype/376/nonstandard/14045/selfRefLink/false>



November 24, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Cadillac XT5 AWD
VIN: 1GYKNBRS8JZ155901

2 Required Safety Operations

There are 2 Safety that Cadillac requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera
Rear Parking Sensors

Safety

1. Repairs and Inspections Required After a Collision

- **Inspection (Post Collision Safety Inspection)**
- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2018 Cadillac XT5 repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Cadillac XT5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>

November 24, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Nissan Titan SV
VIN: 1N6AA1E55JN547889

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert

Optional ADAS Features

Front and Rear Parking Sensors

ADAS

1. Blind Spot Radar

- **Test Drive (Blind Spot Action Test)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Cross-Traffic Alert on this vehicle.

The 2018 Nissan Titan repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is installed (Line number 11 and 13)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58626/component/1283/itype/377/nonstandard/22206/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58626/component/872/itype/401/nonstandard/22257/selfRefLink/false>

Safety

2. Seatbelt System

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**

- **Inspection (Seatbelt Inspection)**

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

The 2018 Nissan Titan repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58626/component/1285/itype/383/nonstandard/17689/selfRefLink/false>

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2018 Nissan Titan repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/nissan/position-statements/24715.pdf>

November 24, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Honda Civic LX
VIN: 2HGFC2F59KH012888

3 Required Safety Operations

There are 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System
Rear Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2019 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59659/component/6978/itype/383/nonstandard/13312/selfRefLink/false>

2. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2019 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59659/guid/nah19CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59659/component/611/itype/15/nonstandard/12375/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2019 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

November 24, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Honda Civic LX
VIN: 2HGFC2F65HH016924

2 Required ADAS Operations
1 Required Steering Operation
3 Required Safety Operations

There are 2 ADAS, 1 Steering, and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Lane Keeping Assist System
Pedestrian Impact Prevention
Rear Camera

ADAS

1. Front Radar

- **Vertically Align Sensor (Vertical Radar Aim)**
- **Static Calibration (Horizontal Radar Aim)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow and Collision Mitigation Braking System on this vehicle.

The 2017 Honda Civic repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 12, 14, 41, and 71)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57012/component/1283/itype/387/nonstandard/102665/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

2. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Lane Keeping Assist System on this vehicle.

The 2017 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 12, 14, 41, and 71)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57012/component/1283/itype/387/nonstandard/102664/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

Steering

3. Vehicle Stability Assist Sensor

- **Reset (VSA Sensor Neutral Position Memorization)**

The 2017 Honda Civic repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Front End Alignment is repaired (Line number 85)
- Four Wheel Alignment is repaired (Line number 85)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57012/guid/nah17CIVIC_TBA-R001644_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57012/component/3399/itype/376/nonstandard/103787/selfRefLink/false>

Safety

4. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2017 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57011/component/6978/itype/383/nonstandard/103231/selfRefLink/false>

5. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2017 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57011/guid/nahn17CIVIC_TBA-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57011/component/611/itype/15/nonstandard/102293/selfRefLink/false>

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2017 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



November 24, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Nissan Rogue (Trim Not Selected)
VIN: 5N1AT2MV3KC710083

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Mitigation
Intelligent Emergency Braking with Pedestrian Detection
Lane Departure Prevention
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
Front Mounted Camera
Intelligent Cruise Control
Rear Camera
Rear Cross-Traffic Alert
Rear Cross-Traffic Alert
Rear Parking Sensors

ADAS

1. Surround-View Monitor Cameras

- **Static Calibration (Calibrating Camera Image)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2019 Nissan Rogue repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Side Mirror is installed (Line number 3)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60028/component/1299/itype/387/nonstandard/18412/selfRefLink/false>

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/60028/guid/nas19rogue-NISB000000014555869_html

Safety

2. Seatbelt System

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

- **Inspection (Seatbelt Inspection)**

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**

The 2019 Nissan Rogue repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60028/component/1285/itype/383/nonstandard/13998/selfRefLink/false>

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2019 Nissan Rogue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/nissan/position-statements/24715.pdf>

November 24, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Mercedes-Benz GLC-Class - 253 GLC 300
VIN: W1N0G8EBXMV281469

1 Required Safety Operation

There is 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

PRE-SAFE Brake with Pedestrian Recognition
Rear Cross-Traffic Alert

Optional ADAS Features

Active Blind Spot Assist
Active Brake Assist
Active Lane Keeping Assist
Adaptive Cruise Control with Stop and Go
Blind Spot Warning
DISTRONIC PLUS with Steering Assist
Front and Rear Parking Sensors
Front Cross-Traffic Alert
Front Mounted Camera
Head-Up Display
PARKTRONIC with Active Parking Assist
Rear Camera
Right-Side Camera
Surround View rear mounted camera
Surround-View Monitor
Traffic Sign Recognition

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2021 Mercedes-Benz GLC-Class - 253 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz/position-statements/26689.pdf>



November 24, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Chevrolet Sonic LS
VIN: 1G1JA6EH3E4137767

2 Required Safety Operations

There are 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Repairs and Inspections Required After a Collision

- Operation Check (Emergency Locking Retractor Dynamic Function Test)
- Inspection (Post Collision Safety Inspection)

The 2014 Chevrolet Sonic repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/>

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[index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf](https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf)

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2014 Chevrolet Sonic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>



November 23, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Honda CR-V Touring
VIN: 2HKRW2H92JH124912

2 Required ADAS Operations
2 Required Steering Operations
3 Required Safety Operations

There are 2 ADAS, 2 Steering, and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Warning
Collision Mitigation Braking System
Pedestrian Impact Prevention
Rear Camera
Rear Cross-Traffic Alert
Road Departure Mitigation

Optional ADAS Features

Rear Parking Sensors

ADAS

1. Front Radar

• Static Calibration (Millimeter Wave Radar Aiming)

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow and Collision Mitigation Braking System on this vehicle.

The 2018 Honda CR-V repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 4)
- Door (if intrusion beam is damaged) is replaced (Line number 10)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58202/component/1283/itype/387/nonstandard/103323/selfRefLink/true>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

2. Windshield Camera(s)

• Static Calibration (Multipurpose Camera Aiming)

The Windshield Camera(s) is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Road Departure Mitigation on this vehicle.

The 2018 Honda CR-V repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 4)

- Door (if intrusion beam is damaged) is replaced (Line number 10)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58202/component/1283/itype/387/nonstandard/103322/selfRefLink/true>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

Steering

3. Steering Angle Sensor

- **Reset (Steering Angle Sensor Neutral Position Clear)**

The 2018 Honda CR-V repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Battery is installed (Line number 53)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58202/guid/nah18CR-V_TLA-R001739_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58202/component/303/itype/376/nonstandard/103409/selfRefLink/true>

4. Vehicle Stability Assist Sensor

• Reset (VSA Sensor Neutral Position Memorization)

The 2018 Honda CR-V repair manual states that a operation is required for the Vehicle Stability Assist Sensor when the following occurs:

- Battery is repaired (Line number 53)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58202/guid/nah18CR-V_TLA-R001739_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58202/component/303/itype/376/nonstandard/103409/selfRefLink/true>

Safety

5. Seat Weight Sensor

• Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)

The 2018 Honda CR-V repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58200/>

component/6978/itype/383/nonstandard/102848/
selfRefLink/false

6. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2018 Honda CR-V repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61TLA&lang=enu&sie=T001246_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61TLA&lang=enu&sie=G001210_enu

7. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2018 Honda CR-V repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

November 23, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Hyundai Tucson Ultimate
VIN: KM8J3CAL4LU220238

2 Required ADAS Operations 1 Required Safety Operation

There are 2 ADAS and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Blind Spot Warning
- Forward Collision Avoidance Assist with Pedestrian Detection
- Front Mounted Camera
- Lane Keeping Assist
- Rear Camera
- Rear Cross-Traffic Collision Warning
- Rear Parking Sensors
- Right-Side Camera
- Smart Cruise Control
- Surround-View Monitor

ADAS

1. Blind Spot Radar

- **Dynamic Calibration (Blind Spot Radar Unit Alignment)**
- **Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)**

The Blind Spot Radar is responsible for Blind Spot Warning and Rear Cross-Traffic Collision Warning on this vehicle.

The 2020 Hyundai Tucson repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 17)
- Rear bumper is repaired (Line number 25, 27, and 29)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61333/component/7821/itype/376/nonstandard/22239/selfRefLink/false>

2. Surround-View Monitor Cameras

- **Static Calibration (Manual Tolerance Compensation)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2020 Hyundai Tucson repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Side Mirror is installed (Line number 5)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61333/component/1283/itype/376/nonstandard/22207/selfRefLink/false>

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2020 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>



November 22, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Toyota Corolla SE
VIN: 5YFB4MBE0NP124523

2 Required ADAS Operations
2 Required Safety Operations
1 Required Operational Operation

There are 2 ADAS, 2 Safety, and 1 Operational that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Lane Departure Alert with Steering Assist
Pre-Collision System
Pre-Collision System with Pedestrian Detection
Rear Camera
Road Sign Assist

ADAS



1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**



The Front Radar is responsible for Adaptive Cruise Control, Pre-Collision System, and Pre-Collision System with Pedestrian Detection on this vehicle.



The 2022 Toyota Corolla repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 5 and 6)
- Front bumper is installed (Line number 5, 6, and 10)

Please see the documentation from the manufacturer below.



OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/63027/guid/naty2019-2022corol-RM10000001HZHS_html



OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/63027/component/7309/itype/401/nonstandard/422313/selfRefLink/false>

2. Windshield Camera(s)

- **Static Calibration (Front Camera - Adjustment)**



The Windshield Camera(s) is responsible for Lane Departure Alert with Steering Assist, Pre-Collision System, Pre-Collision System with Pedestrian Detection, and Road Sign Assist on this vehicle.



The 2022 Toyota Corolla repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is installed (Line number 62)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/63027/component/1246/itype/5/nonstandard/421203/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/63027/component/1246/itype/401/nonstandard/414363/selfRefLink/false>

Safety

3. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2022 Toyota Corolla repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/63027/component/465/itype/15/nonstandard/414416/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2022 Toyota Corolla repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm

Operational

5. Back Door Unlock

- **Reset (Reset Back Door Close Position)**

The 2022 Toyota Corolla repair manual states that a operation is required for the Back Door Unlock when the following occurs:

- Battery is installed (Line number 103900500)
- Battery is repaired (Line number 103900500)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/63027/guid/natty2019-2022corol-RM100000001D1O0_html

OEM procedure requirement:



https://my.alldata.com/repair/#/repair/article/63027/guid/na-ty2019-2022corol-RM10000001N238_html



November 22, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Jeep Gladiator Rubicon
VIN: 1C6JJTBG5ML597347

1 Required Safety Operation

There is 1 Safety that Jeep requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Blind Spot Detection
Forward Collision Warning-Plus
ParkSense - Rear Parking Sensors
Rear Camera
Rear Collision Warning

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2021 Jeep Gladiator repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

[https://www.moparrepairconnect.com/dA/9c84705026/
Collision_Position_Statement_Scan_Tool_201-
document.pdf](https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf)



November 22, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Ford Escape SEL
VIN: 1FMCU9H99DUA55548

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Parking Sensors

Optional ADAS Features

Automated Parking Assistance
Blind Spot Warning
Forward Collision Warning

ADAS



1. Parking Sensors - Rear

- **Operation Check (Elevation System Check)**
- **Operation Check (Azimuth System Check)**

The Parking Sensors - Rear is responsible for Rear Parking Sensors on this vehicle.

The 2013 Ford Escape repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is replaced (Line number 4)
- Parking Sensor - Rear is installed (Line number 10)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/52016/component/1283/itype/383/nonstandard/1737861/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/52016/component/3716/itype/401/nonstandard/1738215/selfRefLink/false>



Safety



2. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2013 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52016/component/1285/itype/377/nonstandard/1736896/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

November 22, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Hyundai Accent GL
VIN: KMHCT5AE6EU197327

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2014 Hyundai Accent repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

November 21, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Kia Sorento SXL
VIN: 5XYPKDA11GG104637

3 Required ADAS Operations 1 Required Safety Operation

There are 3 ADAS and 1 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Stop and Go
Blind Spot Warning
Rear Camera
Rear Collision Warning
Rear Parking Sensors
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Forward Collision Warning
Front Mounted Camera
Lane Departure Warning

ADAS

1. Blind Spot Radar

- **Check Installation Angle (Correcting the Rear Corner Radar Unit Angle)**
- **Dynamic Calibration (BSD Unit Alignment)**

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2016 Kia Sorento repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 47)
- Rear bumper is repaired (Line number 64)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55186/component/7821/itype/387/nonstandard/3102926/selfRefLink/false>

2. Front Radar

- **Static Calibration (Smart Cruise Control (SCC) Radar Alignment)**
- **Check Installation Angle (Vertical Calibration)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2016 Kia Sorento repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

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<https://my.alldata.com/repair/#/repair/article/55183/component/451/itype/376/nonstandard/3102577/selfRefLink/false>

3. Surround-View Monitor Cameras

- **Static Calibration (Manual Tolerance Compensation)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2016 Kia Sorento repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55183/component/871/itype/387/nonstandard/3103127/selfRefLink/false>

Safety

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2016 Kia Sorento repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://crashrepairinfo.com/sites/default/files/Kia_Pos_%20Pre-Post-Scanning%286-18%29.pdf



November 21, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Dodge Grand Caravan SXT
VIN: 2C4RDGBGXFR580886

1 Required Safety Operation

There is 1 Safety that Dodge requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2015 Dodge Grand Caravan repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

November 21, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Chevrolet Malibu LS
VIN: 1G11B5SL2FF272177

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Rear Parking Sensors

Steering

1. Steering Angle Sensor

- **Reset (Steering Position Sensor Calibration)**

The 2015 Chevrolet Malibu repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Front End Alignment is repaired (Line number 55)
- Four Wheel Alignment is repaired (Line number 55)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/54601/guid/nagc15malibu-2162065_html

Safety

2. Repairs and Inspections Required After a Collision

- **Inspection (Post Collision Safety Inspection)**
- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2015 Chevrolet Malibu repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/technical-documents/repairs-inspections-required-after-collision.pdf>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2015 Chevrolet Malibu repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://www.gmparts.com/content/dam/gmparts/na/us/en/index/technical-resources/position-statements/02-pdfs/new/pre-post-scan-collision-vehicles.pdf>



November 21, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Hyundai Sonata 2.4L Sport Tech
VIN: 5NPE34AF8FH083700

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Collision Warning
Rear Parking Sensors

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2015 Hyundai Sonata repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

November 21, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Hyundai Tucson Preferred
VIN: KM8J3CA48LU201457

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision-Avoidance Assist
Lane Keeping Assist
Rear Camera
Rear Cross-Traffic Collision Warning

Safety

1. Vehicle Electronics

- Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2020 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

November 21, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Audi Q8 4.0T (Tiptronic)
VIN: WU1ARAF15MD037143

5 Required ADAS Operations
1 Required Steering Operation
2 Required Safety Operations

There are 5 ADAS, 1 Steering, and 2 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Audi Pre Sense City - Pedestrian Impact Prevention
Audi Side Assist
Front and Rear Parking Sensors
Front Cross-Traffic Alert
Front Mounted Camera
Night Vision
Rear Camera
Rear Collision Warning
Right-Side Camera
Surround-View Monitor
Traffic Jam Assist

Optional ADAS Features

Audi Pre Sense Basic
Head-Up Display
Lane Departure Warning
Traffic Sign Recognition

ADAS

1. Blind Spot Radar

- **Static or Dynamic Calibration (Lane Change Assistance Calibration)**

The Blind Spot Radar is responsible for Audi Side Assist on this vehicle.

The 2021 Audi Q8 repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 5)
- Rear bumper is installed (Line number 5)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60086/component/1283/itype/387/nonstandard/14334/selfRefLink/true>

2. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Adaptive Cruise Control and Traffic Jam Assist on this vehicle.

The 2021 Audi Q8 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1)
- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60086/component/1246/itype/392/nonstandard/13188/>



selfRefLink/true

3. Front Side Radar

- **Static or Dynamic Calibration (Front Corner Radar, Calibrating)**

The Front Side Radar is responsible for Front Cross-Traffic Alert on this vehicle.

The 2021 Audi Q8 repair manual states that a operation is required for the Front Side Radar when the following occurs:

- Front bumper is installed (Line number 1)
- Front bumper is repaired (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/60086/guid/nad19Q8_4MN-en-US-A-A005A029621_americ-X-1A71549YUPUBL_html

4. Night Vision

- **Static Calibration (Infrared System Calibration)**

The Night Vision is responsible for Night Vision on this vehicle.

The 2021 Audi Q8 repair manual states that a operation is required for the Night Vision when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60086/component/7847/itype/387/nonstandard/14340/selfRefLink/true>

5. Surround-View Monitor Cameras

- **Static Calibration (Peripheral Camera Calibration)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2021 Audi Q8 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60086/component/8414/itype/387/nonstandard/14342/selfRefLink/true>

Steering

6. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2021 Audi Q8 repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60086/component/3399/itype/376/nonstandard/13172/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60086/component/3399/itype/376/nonstandard/13170/selfRefLink/false>

Safety

7. Seatbelt System

- **Check Installation Angle (Seatbelts Condition and Function Check)**

The 2021 Audi Q8 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60086/guid/nad19Q8_4MN-en-US-A-A005A028521_americ-X-0S851RK5HOC_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60086/component/1285/itype/383/nonstandard/13592/selfRefLink/true>

8. Vehicle Electronics

- **OEM Pre-Scan (Airbag Control Module Crash Entry Check)**

- **Inspection (Seatbelts Condition and Function Check)**

The 2021 Audi Q8 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60086/component/6978/itype/376/nonstandard/13589/selfRefLink/false>



November 21, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Ford Mustang GT
VIN: 1FA6P8CF6H5299521

2 Required Safety Operations 1 Required Operational Operation

There are 2 Safety and 1 Operational that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seatbelt System

- Operation Check (Road Test Inspection)

The 2017 Ford Mustang repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/56801/component/1285/itype/377/nonstandard/11321/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2017 Ford Mustang repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

Operational

3. Power Window System

- **Initialization (Power Door Window Initialization)**

The 2017 Ford Mustang repair manual states that a operation is required for the Power Window System when the following occurs:

- Front Door is replaced (Line number 15)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/56801/component/429/itype/387/nonstandard/10968/selfRefLink/>

false

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/56801/component/7114/itype/401/nonstandard/10970/selfRefLink/false>



November 21, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Nissan Rogue S
VIN: 5N1AT2MV7LC811161

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Mitigation
Intelligent Emergency Braking with Pedestrian Detection
Lane Departure Prevention
Rear Camera
Rear Cross-Traffic Alert
Rear Cross-Traffic Alert

ADAS

1. Blind Spot Radar

- **Test Drive (Blind Spot Action Test)**

The Blind Spot Radar is responsible for Blind Spot Warning, Rear Cross-Traffic Alert, and Rear Cross-Traffic Alert on this vehicle.

The 2020 Nissan Rogue repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Blind Spot Module is installed (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60028/component/1283/itype/377/nonstandard/19507/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60028/component/872/itype/401/nonstandard/19711/selfRefLink/true>

Safety

2. Seatbelt System

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**
- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**
- **Inspection (Seatbelt Inspection)**

The 2020 Nissan Rogue repair manual states that a



operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60028/component/1285/itype/383/nonstandard/13998/selfRefLink/false>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Nissan Rogue repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/nissan/position-statements/24715.pdf>

November 21, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Infiniti Q50 (Trim Not Selected)
VIN: JN1BV7AR1FM415705

2 Required ADAS Operations
2 Required Safety Operations
1 Required Operational Operation

There are 2 ADAS, 2 Safety, and 1 Operational that Infiniti requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Forward Collision Mitigation
Predictive Forward Collision Warning with Forward Emergency Braking
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Active Blind Spot System
Front and Rear Parking Sensors
Front Mounted Camera
Lane Departure Prevention
Rear Camera
Rear Collision Mitigation

ADAS

1. Front Radar

- **Static Calibration (ICC Sensor Alignment)**

The Front Radar is responsible for Adaptive Cruise Control, Forward Collision Mitigation, and Predictive Forward Collision Warning with Forward Emergency Braking on this vehicle.

The 2015 Infiniti Q50 repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54794/component/1246/itype/5/nonstandard/1192627/selfRefLink/true>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/infiniti/position-statements/25481.pdf>

2. Surround-View Monitor Cameras

- **Static Calibration (Calibrating Camera Image)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2015 Infiniti Q50 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/54796/component/7848/itype/387/nonstandard/1173619/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/54796/component/7309/itype/401/nonstandard/1152638/selfRefLink/false>

Safety

3. Seatbelt System

- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**
- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**
- **Inspection (Seatbelt Inspection)**

The 2015 Infiniti Q50 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54794/component/728/itype/383/nonstandard/1275604/selfRefLink/true>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2015 Infiniti Q50 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/nissan/position-statements/24715.pdf>



Operational

5. Power Window System

- **Initialization (Power Window Control Unit Initialization)**

The 2015 Infiniti Q50 repair manual states that a operation is required for the Power Window System when the following occurs:

- Door is installed (Line number 7)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Infiniti/Power_Window_Servicing_Post-Repair.htm

November 17, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Audi Q5 Tech Premium Plus
VIN: WA1ENAFY3J2238192

No Required Operations

There are no operations that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Potential Steering

1. Wheel Alignment (Potential)

- **Wheel Alignment (Four Wheel Alignment)**

The 2018 Audi Q5 repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57892/component/3399/itype/376/nonstandard/115082/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57892/component/3399/itype/376/nonstandard/115081/selfRefLink/false>

Potential Safety

2. Seatbelt System (Potential)

- **Check Installation Angle (Seatbelts Condition and Function Check)**

The 2018 Audi Q5 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/57892/guid/nad2018-2020q5_fyb-en-US-A-A005A022521_americ-X-0S851RK5HOC_html#X-0S851RK5HOC

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57892/component/1285/itype/383/nonstandard/114564/selfRefLink/false>

3. Vehicle Electronics (Potential)

- **OEM Pre-Scan (Airbag Control Module Crash Entry Check)**

- **Inspection (Seatbelts Condition and Function Check)**

The 2018 Audi Q5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57892/component/6978/itype/376/nonstandard/114561/selfRefLink/false>



November 17, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Lexus RX (Trim Not Selected)
VIN: 2T2BZMCA1JC137722

1 Required ADAS Operation 2 Required Safety Operations

There are 1 ADAS and 2 Safety that Lexus requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

All-Speed Dynamic Radar Cruise Control
Forward Collision Mitigation
Intuitive Park Assist - Front and Rear Parking Sensors
Lane Departure Alert with Steering Assist
Pedestrian Impact Prevention
Rear Parking Sensors

Optional ADAS Features

Blind Spot Warning
Front Mounted Camera
Head-Up Display
Rear Camera
Rear Collision Mitigation
Right-Side Camera
Surround-View Monitor

ADAS

1. Parking Sensors - Rear

- **Static Calibration (Registration)**
- **Check Installation Angle (Sensor Height and Alignment Inspection)**

The Parking Sensors - Rear is responsible for Intuitive Park Assist - Front and Rear Parking Sensors and Rear Parking Sensors on this vehicle.

The 2018 Lexus RX repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 1, 3, 6, and 8)
- Rear bumper is repaired (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/58611/guid/nax2016-2021rx350-RM10000001AGTN_html

Safety

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2018 Lexus RX repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57028/>

component/465/itype/15/nonstandard/110864/selfRefLink/
false

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Health Check Diagnostic Scans)**

The 2018 Lexus RX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

November 17, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Acura ILX Premium Pkg
VIN: 19VDE1F54DE401486

2 Required Safety Operations

There are 2 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)

The 2013 Acura ILX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52665/component/3504/itype/383/nonstandard/1609602/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2013 Acura ILX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



November 17, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Porsche Cayenne Base (Tiptronic)
VIN: WP1BA2AY3MDA41886

2 Required ADAS Operations 1 Required Safety Operation

There are 2 ADAS and 1 Safety that Porsche requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control
- Adaptive Cruise Control with Stop and Go
- Forward Collision Mitigation
- Front and Rear Parking Sensors
- Night Vision
- Pedestrian Impact Prevention
- Rear Camera

Optional ADAS Features

- Blind Spot Warning
- Front Mounted Camera
- Head-Up Display
- Lane Keep Assist
- Right-Side Camera
- Surround-View Monitor
- Traffic Sign Recognition
- Traffic Sign Recognition with Speed Limiter

ADAS



1. Front Radar

- **Static Calibration (Adaptive Cruise Control (ACC) Calibration)**

The Front Radar is responsible for Adaptive Cruise Control and Adaptive Cruise Control with Stop and Go on this vehicle.

The 2021 Porsche Cayenne repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 1)
- Front bumper is repaired (Line number 1)

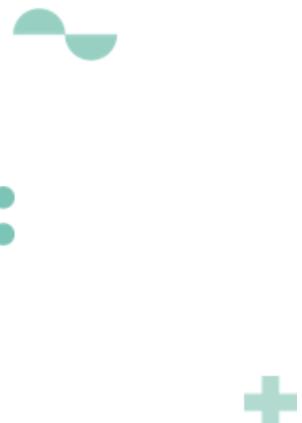
Please see the documentation from the manufacturer below.

OEM procedure requirement:

WM, 631519 Removing and installing front apron

OEM procedure requirement and instructions:

WM, 278515 Adjusting control unit for distance measuring sensor



2. Night Vision

- **Static Calibration (Infrared System Calibration)**

The Night Vision is responsible for Night Vision on this vehicle.

The 2021 Porsche Cayenne repair manual states that a operation is required for the Night Vision when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:



WM, 908055 Replacing infrared camera

OEM procedure requirement:

WM, 631519 Removing and installing front apron

Safety

3. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2021 Porsche Cayenne repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

WM, 0X01IN Checking seat belts

November 17, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Honda Civic Sport
VIN: 2HGFE2F58NH117131

3 Required Safety Operations

There are 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System with Road Departure Mitigation
Rear Camera
Traffic Jam Assist
Traffic Sign Recognition

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2022 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=R001475_enu

2. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2022 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=T002634_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=G001469_enu

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)

The 2022 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



November 17, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Mercedes-Benz GLE-Class & GLS-Class -
166 & 292 AMG GLE 43
VIN: 4JGED6EB0JA117673

2 Required ADAS Operations 1 Required Safety Operation

There are 2 ADAS and 1 Safety that Mercedes-Benz requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Forward Collision Mitigation
Rear Camera
Right-Side Camera
Surround View rear mounted camera
Surround-View Monitor

Optional ADAS Features

Active Blind Spot Assist
Active Lane Keeping Assist
Blind Spot Warning
Brake Assist PLUS with Cross-Traffic Assist
Distance Pilot DISTRONIC
Front Mounted Camera
Lane Departure Warning
Parking Pilot - Automated Parking Assistance
PRE-SAFE Brake with Pedestrian Detection
PRE-SAFE PLUS
Traffic Sign Recognition

ADAS

1. Rear Camera

- **Static Calibration (Calibration of Reversing Camera)**
- **Reset (Calibration of the Steering Angle Sensor)**

The Rear Camera is responsible for Rear Camera on this vehicle.

The 2018 Mercedes-Benz GLE-Class & GLS-Class - 166 & 292 repair manual states that a operation is required for the Rear Camera when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 58)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58683/component/715/itype/5/nonstandard/11844/selfRefLink/false>

2. Surround-View Monitor Cameras

- **Dynamic Calibration (Calibration of 360 Degree Camera System)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera, Surround View rear mounted camera, and Surround-View Monitor on this vehicle.

The 2018 Mercedes-Benz GLE-Class & GLS-Class - 166 & 292 repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Side Mirror is installed (Line number 8)
- Front View Camera is installed (Line number 17)
- Side View Camera is installed (Line number 17)
- Trunk Lid/Lift Gate is installed (Line number 58)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58683/component/715/itype/5/nonstandard/11844/selfRefLink/false>

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58683/component/8414/itype/401/nonstandard/11531/selfRefLink/false>

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58683/component/6798/itype/401/nonstandard/11530/selfRefLink/false>

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58683/component/754/itype/401/nonstandard/12063/selfRefLink/false>

Safety

3. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2018 Mercedes-Benz GLE-Class & GLS-Class - 166 & 292 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



<https://rts.i-car.com/images/pdf/oem-info/mercedes-benz-position-statements/26689.pdf>



November 17, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2021 Alfa Romeo Stelvio Ti Sport
VIN: ZASPAKBNXM7D04487

1 Required ADAS Operation 1 Required Safety Operation

There are 1 ADAS and 1 Safety that Alfa Romeo requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Active Blind Spot Assist
- Adaptive Cruise Control with Stop and Go
- Forward Collision Mitigation
- Front and Rear Parking Sensors
- Lane Keep Assist
- Rear Camera
- Traffic Sign Recognition with Speed Limiter

ADAS



1. Front Radar

- **Static Calibration (ACC Alignment)**

The Front Radar is responsible for Adaptive Cruise Control with Stop and Go on this vehicle.

The 2021 Alfa Romeo Stelvio repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 1, 2, and 28)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/62482/component/871/itype/387/nonstandard/210351/selfRefLink/false>

Safety

2. Vehicle Electronics

- **OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)**

The 2021 Alfa Romeo Stelvio repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

November 17, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Hyundai Tucson Preferred
VIN: KM8J3CA40KU081684

- 1 Required ADAS Operation**
- 1 Required Steering Operation**
- 1 Required Safety Operation**

There are 1 ADAS, 1 Steering, and 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Autonomous Emergency Braking
Blind Spot Warning
Lane Keep Assist
Rear Camera
Rear Cross-Traffic Alert

ADAS

1. Front Radar

- **Dynamic Calibration (Horizontal Calibration)**
- **Check Installation Angle (Vertical Calibration)**

The Front Radar is responsible for Autonomous Emergency Braking on this vehicle.

The 2019 Hyundai Tucson repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is repaired (Line number 2 and 3)
- Radiator Support is installed (Line number 39)
- Radiator Support is replaced (Line number 39)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60056/component/1283/itype/376/nonstandard/28677/selfRefLink/true>

Steering

2. Steering Angle Sensor

- **Midpoint Setting (ASP Calibration)**

The 2019 Hyundai Tucson repair manual states that a operation is required for the Steering Angle Sensor when the following occurs:

- Front End Alignment is repaired (Line number 101900500)
- Four Wheel Alignment is repaired (Line number 101900500)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/60056/component/3915/itype/376/nonstandard/27897/selfRefLink/false>

OEM procedure requirement:

<https://static.nhtsa.gov/odi/tsbs/2020/MC-10172142-0001.pdf>

Safety

3. Vehicle Electronics

- **Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)**

The 2019 Hyundai Tucson repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position-statements/31340.pdf>

November 17, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Ford Escape Titanium
VIN: 1FMCU9J98KUB17593

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Park Assist
Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering
Rear Camera

Optional ADAS Features

Blind Spot Information System with Cross-Traffic Alert
Ford Co-Pilot360 - Blind Spot Information System
Ford Co-Pilot360 - Lane-Keepering Assist
Forward Collision Warning

ADAS

1. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Ford Co-Pilot360 - Adaptive Cruise Control with Lane Centering on this vehicle.

The 2019 Ford Escape repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision
- Front Reinforcement Bar is installed (Line number 11)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59749/guid/nafm19escap-g1841057_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59749/component/451/itype/401/nonstandard/11318/selfRefLink/false>

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Parking Sensors - Front

- Operation Check (Elevation System Check)
- Operation Check (Azimuth System Check)

The Parking Sensors - Front is responsible for Active Park Assist on this vehicle.

The 2019 Ford Escape repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 6, 7, and 9)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59749/component/1283/itype/383/nonstandard/10232/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59749/component/3716/itype/401/nonstandard/11254/selfRefLink/false>

Safety



3. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2019 Ford Escape repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59749/component/1285/itype/377/nonstandard/11570/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Ford Escape repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

November 17, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Kia Optima LX
VIN: KNAGM4A7XD5373946

2 Required Safety Operations

There are 2 Safety that Kia requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Optional ADAS Features

Rear Camera

Safety

1. Seat Weight Sensor

- **Reset (WCS Reset and Accuracy Check)**

The 2013 Kia Optima repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/52585/component/3504/itype/401/nonstandard/1132988/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Kia Optima repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://crashrepairinfo.com/sites/default/files/Kia_Pos_%20Pre-Post-Scanning%286-18%29.pdf



November 17, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2015 Acura MDX Tech/Entertainment Pkg
VIN: 5FRYD4H68FB504229

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Warning
Lane Departure Warning
Rear Camera

Optional ADAS Features

Rear Parking Sensors

ADAS

1. Blind Spot Radar

- **Check Installation Angle (BSI Radar Unit Mounting Area Check)**
- **Static Calibration (BSI Radar Unit Aiming Inspection)**

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2015 Acura MDX repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 63 and 65)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/54281/guid/na-au15MDX_TZ5-R002511_enu_html

Safety

2. Headlight Assembly

- **Learn (Headlight Initial Position Learning Procedure)**

The 2015 Acura MDX repair manual states that a operation is required for the Headlight Assembly when the following occurs:

- Headlamp is installed (Line number 5 and 6)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/54281/component/536/itype/387/nonstandard/102187/selfRefLink/false>

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)**

The 2015 Acura MDX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/54281/guid/nau15MDX_TZ5-R002475_enu_html

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2015 Acura MDX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

November 17, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Ford Mustang (Trim Not Selected)
VIN: 1FATP8UD6L5152592

2 Required ADAS Operations
2 Required Safety Operations
1 Required Operational Operation

There are 2 ADAS, 2 Safety, and 1 Operational that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Lane Departure Prevention
Rear Camera
Rear Parking Sensors

Optional ADAS Features

Ford Co-Pilot360 - Blind Spot Information System
Forward Collision Mitigation
Pedestrian Impact Prevention
Rear Collision Warning

ADAS



1. Front Radar

- **Dynamic Calibration (Cruise Control Radar Alignment)**
- **Vertically Align Sensor (Cruise Control Radar Alignment)**

The Front Radar is responsible for Adaptive Cruise Control on this vehicle.

The 2020 Ford Mustang repair manual states that a operation is required for the Front Radar when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61018/guid/nafm20musta-g1693156_html

OEM procedure requirement:

<https://fordcrashparts.com/wp-content/uploads/2022/01/Advanced-driver-assistance-systems-ADAS-Job-Aid-D6.pdf>

2. Windshield Camera(s)

- **Dynamic Calibration (IPMA Camera Alignment)**

The Windshield Camera(s) is responsible for Lane Departure Prevention on this vehicle.

The 2020 Ford Mustang repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Front End Alignment is repaired (Line number 38)
- Four Wheel Alignment is repaired (Line number 38)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61018/component/7848/itype/392/nonstandard/111116/selfRefLink/true>

Safety

3. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2020 Ford Mustang repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61018/component/1285/itype/377/nonstandard/111069/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2020 Ford Mustang repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

Operational

5. Power Window System

• Initialization (Power Door Window Initialization)

The 2020 Ford Mustang repair manual states that a operation is required for the Power Window System when the following occurs:

- Front Door is replaced (Line number 12)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61018/component/429/itype/387/nonstandard/110692/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61018/component/7114/itype/401/nonstandard/110694/selfRefLink/false>

November 16, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Audi Q5 2.0L Progressiv
VIN: WA1LFCFPXEA023427

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Audi requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Parking Sensors

Steering

1. Wheel Alignment

• **Wheel Alignment (Four Wheel Alignment)**

The 2014 Audi Q5 repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57464/component/3399/itype/376/nonstandard/214783/selfRefLink/false>



Safety

2. Seatbelt System

- **Check Installation Angle (Seatbelts Condition and Function Check)**

The 2014 Audi Q5 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/57464/guid/nad2013-20178rb-en-US-A-A005Q502321_americ-X-JY7STTKXCWB_html#X-JY7STTKXCWB

3. Vehicle Electronics

- **OEM Pre-Scan (Airbag Control Module Crash Entry Check)**

- **Inspection (Seatbelts Condition and Function Check)**

The 2014 Audi Q5 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57464/component/6978/itype/376/nonstandard/213886/selfRefLink/false>

November 14, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Volkswagen Tiguan (Trim Not Selected)
VIN: 3VV2B7AX3KM070083

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Volkswagen requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Forward Collision Warning with Automatic Emergency Braking
Pedestrian Monitoring
Rear Camera
Rear Collision Mitigation

Optional ADAS Features

Adaptive Cruise Control with Stop and Go
Park Distance Control - Front and Rear Parking Sensors

ADAS

1. Blind Spot Radar

- **Static Calibration (Lane Change Assistance Control Module, Calibrating)**

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2019 Volkswagen Tiguan repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is installed (Line number 1 and 6)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/61350/guid/nawv2018-2021tiguan_bw2_mex-en-US-V-K0059115821_america-X-8HU6XYPWSBC_html#X-8HU6XYPWSBC

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59984/component/871/itype/387/nonstandard/310468/selfRefLink/false>

Steering

2. Wheel Alignment

- **Wheel Alignment (Four Wheel Alignment)**

The 2019 Volkswagen Tiguan repair manual states that a operation is required for the Wheel Alignment when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/61350/component/3399/itype/376/nonstandard/310965/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/61350/component/6978/itype/376/nonstandard/310786/selfRefLink/false>

Safety

3. Seatbelt System

- **Inspection (Seatbelt Inspection and Function Test)**

The 2019 Volkswagen Tiguan repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/61350/component/1285/itype/383/nonstandard/311419/>

selfRefLink/true

4. Vehicle Electronics

- **OEM Pre-Scan (Vehicle Electronics Inspection)**

The 2019 Volkswagen Tiguan repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

[https://my.alldata.com/repair/#/repair/article/57419/
component/6978/itype/376/nonstandard/1103306/](https://my.alldata.com/repair/#/repair/article/57419/component/6978/itype/376/nonstandard/1103306/)
selfRefLink/true



November 14, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Chevrolet Silverado 1500 LT
VIN: 3GCUKREC9JG224867

2 Required Safety Operations

There are 2 Safety that Chevrolet requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Repairs and Inspections Required After a Collision

- **Inspection (Post Collision Safety Inspection)**
- **Operation Check (Emergency Locking Retractor Dynamic Function Test)**

The 2018 Chevrolet Silverado 1500 repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.



OEM procedure requirement and instructions:

https://www.genuinegmparts.com/pdf/techinfo/Repair-Inspection-Required-After-Collision_ID%205807146.pdf

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Chevrolet Silverado 1500 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.genuinegmparts.com/pdf/positionstatements/pre-post-scan-collision-vehicles.pdf>

November 14, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Hyundai Elantra GL
VIN: KMHD84LFXJU493550

1 Required Safety Operation

There is 1 Safety that Hyundai requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Cross-Traffic Alert

Safety

1. Vehicle Electronics

• Pre- and Post-Scan Recommended (Diagnostic Scan Position Statement)

The 2018 Hyundai Elantra repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/hyundai/position->

statements/31340.pdf



November 14, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Honda CR-V SE
VIN: 2HKRM4H41GH103063

2 Required Safety Operations

There are 2 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Rear Parking Sensors

Safety

1. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After A Vehicle Collision)**

The 2016 Honda CR-V repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55586/component/6978/itype/383/nonstandard/101226/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2016 Honda CR-V repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



November 14, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2014 Toyota RAV4 Limited
VIN: 2T3DFREV1EW176406

2 Required Safety Operations

There are 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Blind Spot Warning
Lane Departure Warning
Rear Collision Warning

Safety

1. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2014 Toyota RAV4 repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/53001/component/465/itype/15/nonstandard/211226/selfRefLink/false>

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2014 Toyota RAV4 repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm

November 14, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2017 Dodge Grand Caravan SXT Premium Plus
VIN: 2C4RDGBG9HR728951

1 Required Safety Operation

There is 1 Safety that Dodge requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2017 Dodge Grand Caravan repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

November 11, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2020 Honda Civic Touring
VIN: 2HGFC1F99LH103688

1 Required ADAS Operation 3 Required Safety Operations

There are 1 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Collision Mitigation Braking System
Collision Mitigation Braking System with Forward Collision Warning
Lane Keeping Assist System
Rear Camera
Right-Side Camera

ADAS

1. Front Radar

• Static Calibration (Millimeter Wave Radar - Aim)

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow, Collision Mitigation Braking System, and Collision Mitigation Braking System with Forward Collision Warning on this vehicle.

The 2020 Honda Civic repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper (if damaged within 300mm of radar) is repaired (Line number 1)
- Wave Radar Sensor is installed (Line number 12)

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60819/component/4037/itype/387/nonstandard/13767/selfRefLink/false>

Safety



2. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2020 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/60819/component/6978/itype/383/nonstandard/13058/selfRefLink/false>

3. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2020 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/60819/guid/nahn20civic_tba-T004942_enu_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/60819/component/611/itype/15/nonstandard/12086/selfRefLink/false>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)

The 2020 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Toyota Corolla SE
VIN: 2T1BURHE9KC187197

1 Required Steering Operation 2 Required Safety Operations

There are 1 Steering and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Pre-Collision System with Pedestrian Detection
Rear Camera
Toyota Safety Sense P

Steering

1. Yaw Rate and Acceleration Sensor

- **Reset (Yaw Rate and Acceleration Sensor Zero Point Calibration)**

The 2019 Toyota Corolla repair manual states that a operation is required for the Yaw Rate and Acceleration Sensor when the following occurs:

- Front End Alignment is repaired (Line number 63)
- Four Wheel Alignment is repaired (Line number 63)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/59076/guid/natty2014-2019corol-RM100000000YQY0_html

Safety

2. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2019 Toyota Corolla repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59076/component/1285/itype/383/nonstandard/216443/selfRefLink/true>

3. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Toyota Corolla repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:



[https://my.alldata.com/ColRef/Collision_Reference.htm?
slInfo=0x3c79b#t=Position_Statements%2FToyota
%2C_Lexus%2C_Scion
%2FCRIB___191_Scanning_for_Electrical_Faults.htm](https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm)



November 11, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2013 Buick Verano Leather Group
VIN: 1G4PS5SKXD4205307

2 Required Safety Operations

There are 2 Safety that Buick requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Warning
Rear Camera
Rear Parking Sensors

Safety

1. Repairs and Inspections Required After a Collision

- Operation Check (Emergency Locking Retractor Dynamic Function Test)
- Inspection (Post Collision Safety Inspection)

The 2013 Buick Verano repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

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https://www.genuinegmparts.com/pdf/techinfo/Repair-Inspection-Required-After-Collision_ID%205807146.pdf

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2013 Buick Verano repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.genuinegmparts.com/pdf/positionstatements/pre-post-scan-collision-vehicles.pdf>



November 11, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Nissan Maxima (Trim Not Selected)
VIN: 1N4AA6AP2GC420891

2 Required ADAS Operations 2 Required Safety Operations

There are 2 ADAS and 2 Safety that Nissan requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control
Forward Emergency Braking
Rear Camera
Right-Side Camera
Surround-View Monitor

Optional ADAS Features

Blind Spot Warning
Front and Rear Parking Sensors
Front Mounted Camera
Rear Cross-Traffic Alert

ADAS

1. Front Radar

- **Static Calibration (ICC Sensor Alignment)**

The Front Radar is responsible for Adaptive Cruise Control and Forward Emergency Braking on this vehicle.

The 2016 Nissan Maxima repair manual states that a operation is required for the Front Radar when the following occurs:

- Front End Structural is replaced (Line number 100549)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/55340/component/4037/itype/387/nonstandard/17418/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/55340/component/4037/itype/387/nonstandard/17399/selfRefLink/false>

2. Surround-View Monitor Cameras

- **Static Calibration (Calibrating Camera Image)**

The Surround-View Monitor Cameras is responsible for Right-Side Camera and Surround-View Monitor on this vehicle.

The 2016 Nissan Maxima repair manual states that a operation is required for the Surround-View Monitor Cameras when the following occurs:

- Front bumper is installed (Line number 10 and 100109)
- Grille is installed (Line number 100068)
- Front View Camera is installed

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/55340/guid/nas16maxim-0000000012193830_html

OEM procedure requirement:

https://my.alldata.com/repair/#/repair/article/55340/guid/nas16maxim-0000000012193829_html

Safety

3. Seatbelt System

- **Operation Check (Seatbelt Retractor Off-Vehicle Check)**
- **Inspection (Seatbelt Inspection)**
- **Dynamic Function Test (Emergency Locking Retractor Stationary & Moving Check)**

The 2016 Nissan Maxima repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/55340/component/1285/itype/383/nonstandard/13034/selfRefLink/true>

4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2016 Nissan Maxima repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/nissan/position-statements/24715.pdf>



November 10, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Buick Regal Preferred II
VIN: W04GM6SX1K1023875

2 Required Safety Operations

There are 2 Safety that Buick requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Rear Camera

Optional ADAS Features

Lane Change Alert with Side Blind Zone Alert
Rear Cross-Traffic Alert
Rear Parking Sensors

Safety

1. Repairs and Inspections Required After a Collision

- Operation Check (Emergency Locking Retractor Dynamic Function Test)
- Inspection (Post Collision Safety Inspection)

The 2019 Buick Regal repair manual states that a operation is required for the Repairs and Inspections Required After a Collision when the following occurs:

- Vehicle is involved in a collision



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.genuinegmparts.com/pdf/techinfo/Repair-Inspection-Required-After-Collision_ID%205807146.pdf

2. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Buick Regal repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://www.genuinegmparts.com/pdf/positionstatements/pre-post-scan-collision-vehicles.pdf>

November 10, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2022 Honda Civic Touring
VIN: 2HGFE1F95NH004735

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Honda requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

- Adaptive Cruise Control with Low-Speed Follow
- Blind Spot Warning
- Collision Mitigation Braking System
- Forward Collision Mitigation
- Front and Rear Parking Sensors
- Lane Keeping Assist System with Road Departure Mitigation
- Rear Camera
- Rear Collision Warning
- Traffic Jam Assist
- Traffic Sign Recognition

ADAS

1. Blind Spot Radar

- **Check Installation Angle (BSI Radar Unit Mounting Area Check)**
- **Dynamic Calibration (Blind Spot Information (BSI) System Learning Value Reset)**

The Blind Spot Radar is responsible for Blind Spot Warning on this vehicle.

The 2022 Honda Civic repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is repaired (Line number 38)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serveinfo.html?package=61T20&lang=enu&sie=R002958_enu

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

2. Windshield Camera(s)

- **Static or Dynamic Calibration (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System, Lane Keeping Assist System with Road Departure Mitigation, and Traffic Jam Assist on this vehicle.

The 2022 Honda Civic repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 4, 11, and 38)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/service_info.html?package=61T20&lang=enu&sie=R005947_enu

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/honda/position-statements/30193x.pdf>

Safety

3. Seat Weight Sensor

- **Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)**

The 2022 Honda Civic repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/service_info.html?package=61T20&lang=enu&sie=R001475_enu

4. SRS Unit

- **OEM Pre-Scan (SRS Code, Seat Weight, and Deployment Check)**

The 2022 Honda Civic repair manual states that a operation is required for the SRS Unit when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=T002634_enu

OEM procedure requirement:

https://www.in.honda.com/rjanisis/pubs/app/hm/serv-info.html?package=61T20&lang=enu&sie=G001469_enu

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2022 Honda Civic repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf

November 9, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Ford Focus Titanium
VIN: 1FADP3N22JL262679

3 Required ADAS Operations
2 Required Safety Operations
1 Required Operational Operation

There are 3 ADAS, 2 Safety, and 1 Operational that Ford requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Active Park Assist
Rear Camera
Rear Parking Sensors

Optional ADAS Features

BLIS - Blind Spot Warning
Lane Departure Warning
Rear Cross-Traffic Alert

ADAS

1. Active Park Assist Sensors

- **Operation Check (Azimuth System Check)**

The Active Park Assist Sensors is responsible for Active Park Assist on this vehicle.

The 2018 Ford Focus repair manual states that a operation is required for the Active Park Assist Sensors when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/58238/guid/nafm18focus-g1737634_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58238/component/7306/itype/402/nonstandard/10118/selfRefLink/false>

2. Parking Sensors - Front

- **Operation Check (Azimuth System Check)**

- **Operation Check (Elevation System Check)**

The Parking Sensors - Front is responsible for Active Park Assist on this vehicle.

The 2018 Ford Focus repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.



OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58238/component/1283/itype/383/nonstandard/11052/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58238/component/7306/itype/402/nonstandard/10118/selfRefLink/false>

3. Parking Sensors - Rear

- **Operation Check (Azimuth System Check)**
- **Operation Check (Elevation System Check)**

The Parking Sensors - Rear is responsible for Active Park Assist and Rear Parking Sensors on this vehicle.

The 2018 Ford Focus repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 45)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58238/component/1283/itype/383/nonstandard/11052/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58238/component/7300/itype/402/nonstandard/11430/selfRefLink/false>

Safety

4. Seatbelt System

- **Operation Check (Road Test Inspection)**

The 2018 Ford Focus repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/58238/component/1285/itype/377/nonstandard/11492/selfRefLink/false>

5. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2018 Ford Focus repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/ford/statements/34781.pdf>

Operational

6. Power Window System

• Initialization (Power Door Window Initialization)

The 2018 Ford Focus repair manual states that a operation is required for the Power Window System when the following occurs:

- Front Door is replaced (Line number 20)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/58238/component/429/itype/387/nonstandard/11480/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/58238/component/7114/itype/401/nonstandard/10735/selfRefLink/false>

November 9, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2016 Dodge Journey Canada Value Pkg
VIN: 3C4PDCAB5GT187818

1 Required Safety Operation

There is 1 Safety that Dodge requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

None

Safety

1. Vehicle Electronics

- OEM Pre-Scan (Safety and Security System Diagnostic Code Assessment)

The 2016 Dodge Journey repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://www.moparrepairconnect.com/dA/9c84705026/Collision_Position_Statement_Scan_Tool_201-document.pdf

November 9, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Acura TLX (Trim Not Selected)
VIN: 19UUB3F65KA801921

5 Required ADAS Operations 2 Required Safety Operations

There are 5 ADAS and 2 Safety that Acura requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Adaptive Cruise Control with Low-Speed Follow
Blind Spot Information System
Collision Mitigation Braking System
Front and Rear Parking Sensors
Lane Keeping Assist System
Rear Camera
Rear Cross-Traffic Monitor

ADAS

1. Blind Spot Radar

- **Static Calibration (BSI Radar Unit Aiming Inspection)**
- **Check Installation Angle (BSI Radar Unit Mounting Area Check)**

The Blind Spot Radar is responsible for Blind Spot Information System and Rear Cross-Traffic Monitor on this vehicle.

The 2019 Acura TLX repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Quarter Panel is replaced (Line number 79)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59086/component/7821/itype/383/nonstandard/13320/selfRefLink/false>

2. Front Radar

- **Static Calibration (Horizontal Aiming)**
- **Vertically Align Sensor (Vertical Aiming)**

The Front Radar is responsible for Adaptive Cruise Control with Low-Speed Follow and Collision Mitigation Braking System on this vehicle.

The 2019 Acura TLX repair manual states that a operation is required for the Front Radar when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 10, 13, and 79)
- Door (if intrusion beam is damaged) is replaced (Line number 22 and 45)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59086/component/1283/itype/387/nonstandard/13304/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/acura/position-statements/43998.pdf>

3. Parking Sensors - Front

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Front is responsible for Front and Rear Parking Sensors on this vehicle.

The 2019 Acura TLX repair manual states that a operation is required for the Parking Sensors - Front when the following occurs:

- Front bumper is installed (Line number 1)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59086/component/4/itype/387/nonstandard/13483/selfRefLink/true>



4. Parking Sensors - Rear

- **Reset (Resetting the Parking and Back-Up Sensor Control Unit)**

The Parking Sensors - Rear is responsible for Front and Rear Parking Sensors on this vehicle.

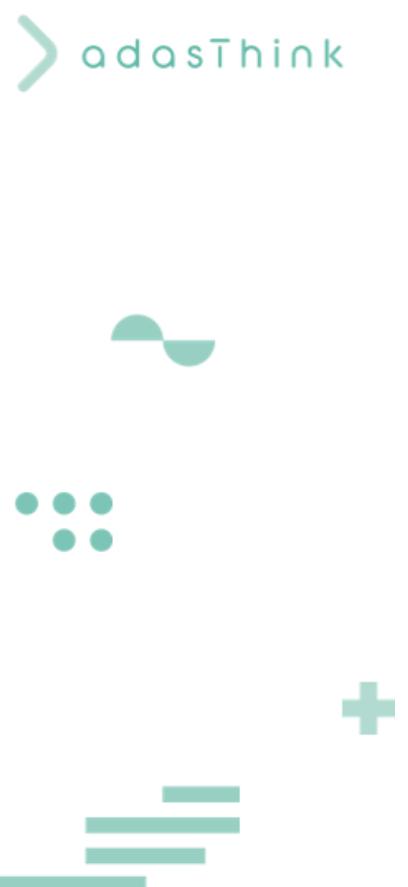
The 2019 Acura TLX repair manual states that a operation is required for the Parking Sensors - Rear when the following occurs:

- Rear bumper is installed (Line number 92)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59086/component/4/itype/387/nonstandard/13483/selfRefLink/true>



5. Windshield Camera(s)

- **Dual Calibration - Static and Dynamic (Multipurpose Camera Aiming)**

The Windshield Camera(s) is responsible for Collision Mitigation Braking System and Lane Keeping Assist System on this vehicle.

The 2019 Acura TLX repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Line number 10, 13, and 79)
- Door (if intrusion beam is damaged) is replaced (Line number 22 and 45)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59086/component/1283/itype/387/nonstandard/13303/selfRefLink/false>

OEM procedure requirement:

<https://rts.i-car.com/images/pdf/oem-info/acura/position-statements/43998.pdf>

Safety

6. Seat Weight Sensor

- **Operation Check (Front Passenger Weight Sensor Output Check After a Vehicle Collision)**

The 2019 Acura TLX repair manual states that a operation is required for the Seat Weight Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/59085/component/6978/itype/383/nonstandard/13457/selfRefLink/false>

7. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement and Inspections)**

The 2019 Acura TLX repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://owners.honda.com/collision/static/pdfs/collision/post-collision_diagnostic_scans_ps_072116.pdf



November 9, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Toyota Camry Hybrid SE
VIN: 4T1B21HK4KU512964

1 Required ADAS Operation
1 Required Steering Operation
2 Required Safety Operations

There are 1 ADAS, 1 Steering, and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Pre-Collision System with Pedestrian Detection
Rear Camera
Toyota Safety Sense P

Optional ADAS Features

Blind Spot Monitor
Rear Cross-Traffic Alert

ADAS

1. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Dynamic Radar Cruise Control, Pre-Collision System with Pedestrian Detection, and Toyota Safety Sense P on this vehicle.

The 2019 Toyota Camry repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 1, 2, and 5)
- Front bumper is repaired (Line number 1 and 2)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59696/guid/naty2018-2022camry-RM100000015PTG_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59696/component/7309/itype/401/nonstandard/115734/selfRefLink/false>

Steering

2. Vehicle Stability Control Sensor

- **Reset (Vehicle Stability Control System - Calibration)**

The 2019 Toyota Camry repair manual states that a operation is required for the Vehicle Stability Control Sensor when the following occurs:

- Front End Alignment is repaired (Line number 55)
- Four Wheel Alignment is repaired (Line number 55)

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/59696/guid/naty2018-2022camry-RM10000000155SC_html

Safety

3. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2019 Toyota Camry repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59696/component/465/itype/383/nonstandard/111812/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59696/component/465/itype/383/nonstandard/111813/selfRefLink/false>

4. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Toyota Camry repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB__191_Scanning_for_Electrical_Faults.htm

November 9, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2019 Toyota Camry Hybrid SE
VIN: 4T1B21HK4KU512964

3 Required ADAS Operations
1 Required Steering Operation
2 Required Safety Operations

There are 3 ADAS, 1 Steering, and 2 Safety that Toyota requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Monitor
Blind Spot Warning
Dynamic Radar Cruise Control
Lane Departure Alert with Steering Assist
Pre-Collision System with Pedestrian Detection
Rear Camera
Rear Cross-Traffic Alert
Toyota Safety Sense P

ADAS

1. Blind Spot Radar

- **Static Calibration (Blind Spot Monitor Sensor - Adjustment)**
- **Check Installation Angle (Blind Spot Monitor Sensor Installation Condition Inspection)**
- **Check Installation Angle (Visually Inspect Installation Area for Damage)**

The Blind Spot Radar is responsible for Blind Spot Monitor, Blind Spot Warning, and Rear Cross-Traffic Alert on this vehicle.

The 2019 Toyota Camry repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Blind Spot Module is installed (Line number 98)
- Rear bumper is repaired (Line number 111200096 and 112200005)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59696/guid/natty2018-2022camry-RM100000015L6O_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59696/component/7821/itype/401/nonstandard/111792/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59696/component/7302/itype/401/nonstandard/115737/selfRefLink/false>

2. Front Radar

- **Static Calibration (Millimeter Wave Radar Sensor - Adjustment)**

The Front Radar is responsible for Dynamic Radar Cruise Control, Pre-Collision System with Pedestrian Detection, and Toyota Safety Sense P on this vehicle.

The 2019 Toyota Camry repair manual states that a operation is required for the Front Radar when the following occurs:

- Front bumper is installed (Line number 5)

Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59696/guid/natty2018-2022camry-RM1000000015PTG_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59696/component/7309/itype/401/nonstandard/115734/selfRefLink/false>

3. Windshield Camera(s)

- **Static Calibration (Front Camera - Adjustment)**

The Windshield Camera(s) is responsible for Lane Departure Alert with Steering Assist, Pre-Collision System with Pedestrian Detection, and Toyota Safety Sense P on this vehicle.

The 2019 Toyota Camry repair manual states that a operation is required for the Windshield Camera(s) when the following occurs:

- Windshield is installed (Line number 16)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

https://my.alldata.com/repair/#/repair/article/59696/guid/naty2018-2022camry-RM100000012VXI_html

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59696/component/6798/itype/401/nonstandard/113016/selfRefLink/false>

Steering

4. Vehicle Stability Control Sensor

- **Reset (Vehicle Stability Control System - Calibration)**



The 2019 Toyota Camry repair manual states that a operation is required for the Vehicle Stability Control Sensor when the following occurs:

- Front End Alignment is repaired (Line number 133900500)
- Four Wheel Alignment is repaired (Line number 133900500)



Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

https://my.alldata.com/repair/#/repair/article/59696/guid/naty2018-2022camry-RM1000000155SC_html

Safety

5. Seatbelt System

- **Dynamic Function Test (Running Test)**

The 2019 Toyota Camry repair manual states that a operation is required for the Seatbelt System when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/59696/component/465/itype/383/nonstandard/111812/selfRefLink/false>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/59696/component/465/itype/383/nonstandard/111813/selfRefLink/false>

6. Vehicle Electronics

- **Pre- and Post-Scan Required (Diagnostic Scan Position Statement)**

The 2019 Toyota Camry repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Collision_Reference.htm?slInfo=0x3c79b#t=Position_Statements%2FToyota%2C_Lexus%2C_Scion%2FCRIB___191_Scanning_for_Electrical_Faults.htm

November 9, 2022

Level5drive Incorporated
689 Enfield Rd
Burlington, ON, L7T2X9

adasThink Vehicle Report

Vehicle: 2018 Subaru Outback Touring
VIN: 4S4BSDDC6J3348251

2 Required ADAS Operations 3 Required Safety Operations

There are 2 ADAS and 3 Safety that Subaru requires because of operations you are performing, as identified in your estimate.

Equipped ADAS Features

Blind Spot Detection
Rear Camera
Rear Collision Warning

ADAS

1. Blind Spot Radar

- **Static Calibration (Radar Axis Adjustment)**

The Blind Spot Radar is responsible for Blind Spot Detection on this vehicle.

The 2018 Subaru Outback repair manual states that a operation is required for the Blind Spot Radar when the following occurs:

- Rear bumper is repaired (Line number 56)
- Rear Reinforcement Bar is replaced (Line number 64)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57938/component/872/itype/5/nonstandard/15488/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57938/component/1283/itype/15/nonstandard/12199/selfRefLink/false>

2. Rear Camera

- **Operation Check (Camera - Inspection)**

The Rear Camera is responsible for Rear Camera on this vehicle.

The 2018 Subaru Outback repair manual states that a operation is required for the Rear Camera when the following occurs:

- Trunk Lid/Lift Gate is installed (Line number 22)



Please see the documentation from the manufacturer below.

OEM procedure instructions:

<https://my.alldata.com/repair/#/repair/article/57938/component/6630/itype/383/nonstandard/15409/selfRefLink/true>

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57938/component/715/itype/401/nonstandard/15175/selfRefLink/false>

Safety



3. Occupant Sensor

- OEM Pre-Scan (Read Airbag module, check for DTC B1650 or B1655)

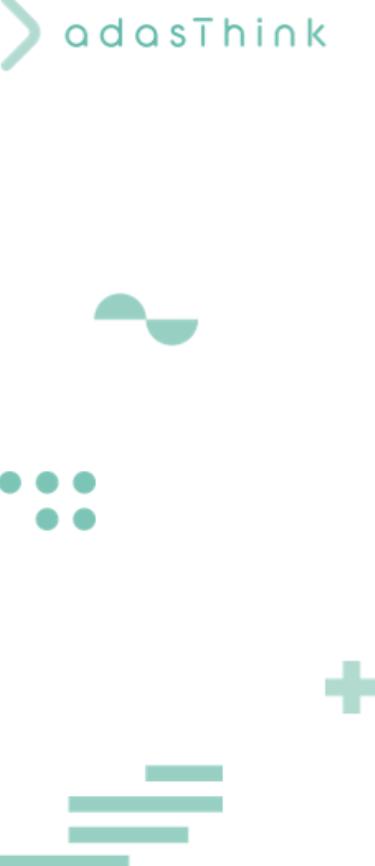
The 2018 Subaru Outback repair manual states that a operation is required for the Occupant Sensor when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement and instructions:

<https://my.alldata.com/repair/#/repair/article/57938/component/6978/itype/376/nonstandard/14566/selfRefLink/false>



4. Vehicle Electronics

- Pre- and Post-Scan Required (Diagnostic Scan Position Statement)

The 2018 Subaru Outback repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

https://my.alldata.com/ColRef/Position_Statements/Subaru/Pre-_and_Post-_Scanning_of_Collision_Vehicles.htm

5. Vehicle Electronics

- **Inspection (Safety System Inspection After a Collision)**

The 2018 Subaru Outback repair manual states that a operation is required for the Vehicle Electronics when the following occurs:

- Vehicle is involved in a collision

Please see the documentation from the manufacturer below.

OEM procedure requirement:

<https://my.alldata.com/repair/#/repair/article/57938/component/6978/itype/376/nonstandard/14566/selfRefLink/false>

