FragglesX500FMS 2024

Owner's Manual

Contact Information
If you require assistance or clarification on policies or procedures, please contact the customer relationship center.
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Introduction

WARNING: Distracted driving increases the risk of an accident, injury, and loss of vehicle control. We strongly advise using any item that could divert your attention from the road with the utmost caution. The safe operation of your vehicle is your top priority. We advocate using voice-operated systems whenever feasible and advise avoiding using any handheld devices while operating a motor vehicle. Verify that you understand any local rules that may apply and have an impact on the use of electronic devices.
WARNING: Failure to follow the underlined instructions puts you and others at danger of death, fire, or serious injury by the cautionary symbol.

We appreciate you selecting FragglesX500FMS! To guarantee a safe and pleasurable driving experience, we advise you to spend a moment getting acquainted with your car. To learn more about your car's features, you can use this guide online, in print, or through the Autosense app.

Please take note:

Follow all applicable laws and regulations when driving your car.
Make sure to include all printed owner's information when selling this car.
Features and Choices Summary Features and options from a variety of models are covered in this guide, some of which might not be generally accessible just yet. Because of this, some of the options listed below might not be available on your particular car.

Child Safety

CHILD SAFETY PRECAUTIONS
WARNING: Always ensure your child is securely fastened in a restraint that suits their height, age, and weight. Child safety seats must be purchased separately from the vehicle. Failure to follow these safety guidelines could increase the risk of serious injury or death to your child.
WARNING: Every child is unique in size and shape. Safety organizations, like the National Highway Traffic Safety Administration (NHTSA), base their child restraint recommendations on common height, age, and weight standards or legal minimum requirements. We advise consulting a Certified Child Passenger Safety Technician (CPST) to confirm that your child's restraint is installed properly and fits your child's needs. You may contact NHTSA at 1-888-327-4236 or visit www.nhtsa.dot.gov to locate a CPST or child restraint fitting station. In Canada, contact Transport Canada at 1-800-333-0371 or visit www.tc.gc.ca to find a Child Car Seat Clinic. Not properly securing a child in an appropriate restraint may increase the risk of serious injury or death.
WARNING: On hot days, temperatures inside the vehicle can quickly become dangerously high. Such conditions can lead to death or severe heat-related injuries, including brain damage, especially for young children. Never leave a child or animal in a hot vehicle.

WARNING: Never place a rear-facing child restraint in front of an active airbag. Ignoring this warning may lead to serious injury or death.
WARNING: Children aged 12 and under should be properly restrained in a rear seat whenever possible. If it's not feasible to secure all children in the rear, position the oldest child in the front seat. If a forward-facing child restraint must be used in the front, move the seat as far back as possible. Failure to follow these recommendations could result in injury or death.
WARNING: Always follow the manufacturer's instructions for any child restraint to ensure it suits your child's size, height, weight, and age. Carefully adhere to the installation and usage instructions from both the child restraint manufacturer and your vehicle manufacturer. Improper use or installation, or choosing a restraint not suited to your child's specifications, may significantly increase the risk of serious injury or death.

Child Safety

- **WARNING**: Never allow a passenger to hold a child on their lap while the vehicle is moving. In an abrupt stop or accident, this could result in serious injury or death.
- **WARNING**: Avoid using pillows, books, or towels to boost a child's height. Only use approved child safety equipment to prevent serious injury.
- **WARNING**: Secure any unused child restraints or booster seats to prevent them from becoming projectiles during a sudden stop or crash.
- **WARNING**: Ensure children properly wear seat belts; the shoulder belt should be across the shoulder, never under the arm or behind the back, to maximize safety.
- **WARNING**: Never leave children or pets unattended in the vehicle, especially on hot days, to prevent heat-related injuries or fatalities.

Installing Child Restraints with Seatbelts:

1. Ensure the vehicle seat is upright.
2. Use the correct seatbelt buckle for the seating position.
3. Insert the seatbelt tongue into the buckle and ensure it's securely fastened.
4. Put the seatbelt in automatic locking mode by pulling it all the way out, then allow it to retract until snug.

Child Restraint Anchor Points: Child restraint anchor points allow for the safe and secure installation of child restraints. Check your vehicle's manual for the specific locations of lower anchor and top tether points.
Child Restraint Recommendations:

- **Up to 40 lb (18 kg)**: Use a child restraint seat (infant carrier or toddler seat).
- **40–80 lb (18–36 kg)**: Use a booster seat.
- **Over 80 lb (36 kg)**: Use a standard vehicle seatbelt with a snug lap belt and shoulder belt centered across the chest.

Legal Requirements: Many regions require child restraints for children up to age eight, or for those under 57 inches (1.45 m) in height or weighing less than 80 lb (36 kg). Check local laws for specific requirements.

Additional Tips:

- Children 12 years and under should sit in a rear seat whenever possible, as rear seats are generally safer.
- Adjust front seats to ensure they don't interfere with rear-facing child seats.

CHILD RESTRAINT GUIDELINES

Recommended Restraint Types by Child Size and Age:

- **Infant/Child Restraint (Infant carrier, convertible seat, toddler seat):**
  For children under 40 lb (18 kg), typically age four or younger.
- **Belt-Positioning Booster Seat:**
  For children over 40 lb (18 kg) and under 57 inches (1.45 m) tall, generally age 4–12. Some manufacturers allow use up to 100 lb (45 kg).
- **Vehicle Seatbelt:**
  For children over 57 inches (1.45 m) tall or more than 80 lb (36 kg), with the lap belt low on hips and shoulder belt centered on the chest.

Legal Requirements:

In the U.S., Canada, and Mexico, child restraints are required for infants and toddlers. Many regions also mandate booster seats until children reach age eight, 57 inches (1.45 m) in height, or 80 lb (36 kg). Check local laws for specifics.

Safety Recommendations:

Children 12 and under should ideally be restrained in a rear seat, as statistics show rear seats are safer for young passengers.

Installing Child Restraints with Seatbelts:

- Place child restraints away from seatbelt buckles and LATCH anchors to keep these features accessible.
- Install restraints tightly against the vehicle seat.

Follow the same steps for both forward and rear-facing installations, ensuring a secure fit according to both vehicle and restraint guidelines.

Seatbelts

Comprehensive Seatbelt Safety Guide

Critical Seatbelt Safety Reminders

1. Always Wear Your Seatbelt Correctly:

- Ensure the seatback is in an upright position, and position the lap belt snugly and low across your hips—not your stomach.
- The shoulder belt must lie across the middle of your chest and shoulder, never under your arm or behind your back.

2. Child Safety Is Essential:

- Secure all children in age-appropriate car seats, booster seats, or child restraints as per local regulations.
- Never hold a child in your lap while driving. In the event of a sudden stop or collision, this can result in severe injuries or fatalities.
- Children under the age of 12 should always sit in the rear seats for maximum protection.

3. Mandatory Seatbelt Use for All Occupants:

- Every passenger, including the driver, must be buckled up, even if the vehicle has airbags. Airbags are supplementary restraints and work best when used with seatbelts.
- Avoid sitting in cargo areas or other unrestrained positions; all passengers should be seated in designated seats with seatbelts securely fastened.

4. Minimize Rollover Risks:

- Unbuckled passengers are at a significantly higher risk of injury or death in a rollover accident. Wearing seatbelts greatly reduces the risk of being ejected or severely hurt.

5. Proper Usage for Each Seatbelt:

- Each seatbelt is designed for a single user—do not share a seatbelt with another person.
- The shoulder belt must always be worn across the shoulder and chest to prevent severe injury during an impact.

Important Safety Tips and Additional Precautions

Heat Warning:

- Metal seatbelt parts and the seats themselves can become extremely hot when exposed to direct sunlight. Always check before allowing children to sit, as they may get burned.

Inspection After a Collision:

- Following any crash, inspect the seatbelts for damage or malfunction. Have them professionally assessed to ensure they meet safety standards before further use.

Overview of Your Vehicle's Seatbelt System

Every seating position in your vehicle features a combination lap and shoulder belt for enhanced safety. The front seats come equipped with adjustable height settings and pre-tensioners, which activate during specific types of crashes to provide additional restraint and protection.

How to Properly Fasten and Release Your Seatbelt

1. Gently pull the belt across your body and insert the latch into the buckle until you hear a firm click.
2. To release, press the red button on the buckle and allow the belt to retract smoothly.

Understanding Seatbelt Locking Modes

Sensitive Locking Mode:

- This mode allows the belt to extend and retract freely during normal driving. It automatically locks during abrupt stops, rapid acceleration, or sharp turns.

Automatic Locking Mode:

- This mode is primarily used for securing child safety seats. Pull the belt completely out to engage the locking mode, and then let it retract, making sure it locks with a clicking sound. To disengage, simply unbuckle the belt and allow it to fully retract.

Proper Seatbelt Use During Pregnancy

- Pregnant passengers should wear the lap belt low across the hips, well below the belly, to avoid pressure on the abdomen.
- The shoulder belt should be positioned across the chest and to the side of the belly, ensuring a snug yet comfortable fit for optimal safety.

Adjusting the Seatbelt Height for Maximum Protection

- Use the height adjuster to position the shoulder belt so it crosses the center of your shoulder, away from your neck, to reduce the risk of neck injuries.

Seatbelt Reminder and Alert System

The vehicle is equipped with a seatbelt reminder system that provides visual and audible alerts if any seatbelt is unfastened. Additional reminders are activated for the driver and front passenger when the vehicle speed exceeds 6 mph. Refer to the vehicle display for seatbelt status updates.

Seatbelt Care and Maintenance Guidelines

- Regularly inspect seatbelts for wear and tear, such as fraying, cuts, or visible damage. Replace any compromised seatbelts immediately to maintain safety.
- After any accident, have all seatbelt components, including retractors and anchors, inspected by a certified professional to ensure they are in good working condition.

Seatbelt Extensions and Compatibility

- Seatbelt extensions should only be used when absolutely necessary and must be specifically designed for your vehicle model. Using non-approved extensions can interfere with the correct positioning and effectiveness of the seatbelt.

Enhancing Vehicle Occupant Safety

By following these detailed seatbelt safety practices and using seatbelts correctly, you can greatly enhance the safety and protection of everyone in your vehicle. Remember, a properly fastened seatbelt is your most effective defense in any driving situation, significantly reducing the risk of serious injury or death in an accident.

Personal Safety

The **Personal Safety System** is a state-of-the-art safety feature engineered to provide enhanced protection for passengers during frontal collisions. It is designed to minimize injury risks and optimize the performance of restraint systems in the event of an accident.

How Does the Personal Safety System Work?

This advanced system enhances the safety of front-seat occupants by mitigating potential airbag-related injuries while offering maximum protection in frontal impacts. The system operates by continuously monitoring crash dynamics and occupant conditions. It uses real-time data to determine the appropriate response, which may involve deploying airbags in stages and engaging seatbelt pretensioners based on the severity of the impact.

- **Adaptive Response:** Depending on the intensity of the collision and the specifics of the occupants' conditions (such as seatbelt usage and seating position), the system may activate one or both stages of the dual-stage airbags. Additionally, it triggers the seatbelt pretensioners to tighten the belts, providing better restraint.

Key Components of the Personal Safety System

The Personal Safety System integrates several sophisticated features to ensure optimal protection for all passengers:

1. **Dual-Stage Front Airbags:**
    - The driver and front passenger are protected by airbags that can deploy at two different levels. The airbag deployment intensity is adjusted based on the crash severity and occupant information.
2. **Advanced Seatbelt System:**
    - The front outer seatbelts include several enhanced safety features:
        - **Seatbelt Usage Sensors:** These detect whether the seatbelt is being worn, allowing the system to tailor the airbag deployment accordingly.
        - **Energy-Management Retractors:** Designed to reduce the force exerted by the seatbelt on the occupant, these retractors help prevent injuries during high-impact crashes.
        - **Seatbelt Pretensioners:** In the event of a collision, the pretensioners instantly tighten the seatbelts, reducing slack and ensuring the occupant is securely restrained.
3. **Front Passenger Sensing System:**
    - This system uses sensors to determine the presence and weight of the front passenger. It helps control the deployment of the passenger airbag, reducing the risk of injury to smaller passengers or children.
4. **Passenger Airbag Status Indicators:**
    - Located on the dashboard, these indicators inform the driver and passengers whether the front passenger airbag is active or deactivated. This status is based on the information provided by the front passenger sensing system.
5. **Crash Severity Sensors:**
    - The system includes front-mounted sensors that assess the severity of the impact. These sensors provide crucial data to the restraints control module, allowing it to make split-second decisions about deploying airbags and engaging pretensioners.
6. **Restraints Control Module (RCM):**
    - The RCM is the brain of the Personal Safety System. It continuously analyzes input from various sensors, including those measuring crash severity, seatbelt usage, and occupant positioning. Based on this data, the RCM decides the optimal timing and intensity for airbag deployment and seatbelt engagement.

The Benefits of the Personal Safety System

- **Enhanced Protection:** By adapting its response based on real-time crash data, the system ensures that passengers receive the right level of protection tailored to the specific collision circumstances.
- **Reduced Airbag-Related Injuries:** The dual-stage airbag deployment and seatbelt pretensioners work

in harmony to minimize the risks associated with airbag inflation, particularly for unbelted or smaller occupants.

- **Optimized Restraint Performance:** The integration of advanced sensors and a sophisticated control module allows the system to provide a coordinated response, enhancing the overall safety of the vehicle's restraint systems.

This comprehensive approach to passenger safety is a testament to the advanced engineering behind the Personal Safety System, designed to protect you and your loved ones during even the most severe frontal collisions.

Air Bags

How the Front Airbags Work

Front airbags for the driver and front passenger are designed to deploy during significant frontal or near-frontal crashes. This airbag system includes:

- Driver and passenger airbag modules
- A front passenger sensing system
- Crash sensors and a monitoring system with an indicator light

Airbags supplement seatbelts to help protect against certain upper body injuries. They deploy rapidly with a loud sound and a release of harmless powder, such as talcum or baking soda residue, which may cause mild irritation to the skin and eyes. Contact with a deploying airbag can lead to abrasions, swelling, and temporary hearing loss. To minimize injury risk, always wear seatbelts correctly and sit as far from the airbag module as possible. No routine maintenance is needed.

How the Side Airbags Work

Warnings:

- Avoid placing items or equipment near the airbag cover or seat sides to prevent injury from deploying airbags.
- Avoid using seat covers that may interfere with airbag function.
- Refrain from leaning on doors, as side airbags deploy from the seatback.

In certain sideways crashes or rollovers, airbags in the front and rear seat backrests will inflate to protect occupants. These airbags are designed to deploy between the door panel and the occupant during side-impact crashes.

For safety, children 12 and under should always be properly restrained in the rear seats. The rear side airbags will not interfere with children in properly installed child or booster seats.

The airbag system includes:

- A label or side panel indicating side airbags are installed in the vehicle.
- Side airbags in the driver and front passenger seat backrests, as well as in the outermost rear seat backrests.
- Crash sensors and a readiness indicator (see the section on Crash Sensors and Airbag Indicator).

Knee Airbags:

The driver’s knee airbag is located under the instrument panel. It may deploy in certain crashes, depending on crash severity and occupant conditions. In some cases, the knee

airbag may deploy while the front airbag does not. Proper seating and restraint are essential to reduce the risk of injury.

Airbag Precautions:

- Airbags deploy quickly and forcefully, with the highest risk of injury near the airbag module and trim.
- All occupants should always wear seatbelts, even when airbags are present. Failure to wear a seatbelt increases the risk of injury or death.
- Children 12 and under should be secured in the rear seats whenever possible. If necessary, place the largest child in the front seat and move the seat as far back as possible if using a forward-facing child restraint.
- Never place your arms on or through the airbag cover or steering wheel, as this can lead to injury.

Pedestrian Alert

Given the near-silent operation of hybrid and electric vehicles at low speeds, the vehicle's **Pedestrian Alert System** generates a gentle, yet noticeable sound to increase pedestrian awareness and safety. This system activates automatically whenever the vehicle is in motion and not in park (P). While the sound is primarily designed for those outside the vehicle, a faint version of it may be heard within the cabin, ensuring minimal distraction while effectively enhancing pedestrian safety. This feature is crucial for preventing accidents, especially in urban environments and areas with heavy foot traffic.

Doors and Locks

Autounlock: A Convenient Safety Feature

How Autounlock Works: The **Autounlock** feature is designed to automatically unlock the vehicle's doors for enhanced convenience and safety when certain conditions are met:

- **Speed Trigger:** Activates once the vehicle reaches a speed greater than **15 mph (25 km/h)**.
- **Complete Stop:** The system unlocks the doors once the vehicle comes to a full stop.
- **Driver's Door Opened:** The unlock function is triggered when the driver opens their door.
- **Time Limitation:** Note that **Autounlock** remains active for only **10 minutes** after the ignition is switched off. After this period, the feature resets, and doors will need to be manually unlocked.

Autolock: Enhanced Security While Driving

What is Autolock? The **Autolock** system automatically secures all doors as you drive, offering added peace of mind by preventing accidental opening and unauthorized access while in motion.

Activation Requirements:

- **Closed Doors:** The system will only engage if **all doors** are properly closed.
- **Engine Running:** The vehicle must be running for the Autolock feature to activate.
- **Speed Threshold:** Autolock is triggered once the vehicle surpasses **15 mph (25 km/h)**.

Mislock: Preventing Incomplete Locking

Understanding Mislock: The **Mislock** feature provides an alert if the vehicle is not securely locked, helping to ensure all doors, including the liftgate and hood, are properly closed before you walk away.

Mislock Limitations:

- **No Flashing Indicators:** The turn signal indicators will not flash if any door, the liftgate, or the hood is left ajar, alerting you to the incomplete locking.

Enabling/Disabling Mislock:

- To customize this feature, navigate to: **Vehicle Settings > Locks > Mislock On/Off**. This allows you to easily toggle the Mislock warning according to your preferences.

Audible Warnings: Enhanced Safety Alerts

Door Ajar Alert:

- An audible alert sounds if a front door is not fully closed while the vehicle is in motion. This feature is crucial for preventing accidental door openings, ensuring that passengers are safe and secure.

Warning Lamps: Visual Reminders for Added Safety

Door Ajar Warning Light:

- The **Door Ajar Warning Light** illuminates on the dashboard when the vehicle is started and remains on if any door, including the rear liftgate, is open. This visual indicator helps the driver quickly identify open doors before driving off, reducing the risk of injury or damage.

Keyless Entry

Keyless Entry System

- **Overview**: Allows locking/unlocking without removing the key from your pocket or bag.
- **Limitations**:
  - The key must be within 3 ft (1 m) of the door handle or liftgate.
  - The system may not work if:
    - The key is stationary for a minute.
    - The vehicle battery or key battery is depleted.
    - There is interference from nearby electronics or metal objects (e.g., phones, keys).
- **Settings**:
  - Enable/Disable Keyless Entry via Vehicle Settings > Locks.
  - Reprogram two-stage unlocking (unlock only driver's door first) by holding the lock and unlock buttons on the remote for 4 seconds.
- **Keyless Detection Alert**:
  - Alerts if no valid key is detected when exiting the vehicle while it is still running.

Using Keyless Entry

- **Unlocking the Door**:
  - With the key or authorized phone nearby, touch the door sensor to unlock.
- **Opening the Liftgate**:
  - Press the liftgate release button to unlock and open.

- **Locking the Door**:
    - Touch the lock icon on the door trim; the vehicle briefly authenticates the device before locking.

Troubleshooting

- **System Not Responding**:
    - Check key limitations. If issues persist, use the manual key or remote control.
- **Unable to Lock Vehicle**:
    - If a rear door or liftgate is open, the system checks for keys inside. The vehicle locks only if no key is detected inside.

Keyless Entry Keypad

- **Overview**: Use the keypad on the window trim for locking/unlocking without a key.
- **Limitations**: May not function if the vehicle battery is depleted.
- **Location**: The keypad is illuminated and located near the driver's window.

Master Access Code

- **What is It?**: A factory-set, five-digit code that always works with the keypad.
- **Display in Instrument Cluster**:
    - Requires two programmed keys inside the vehicle.
    - Follow the backup slot procedure with both keys to display the code.

Liftgate

Keyless Entry System: Effortless Access Without the Hassle

Overview:

The **Keyless Entry System** allows you to conveniently lock and unlock your vehicle without the need to physically take out your key fob from your pocket, bag, or purse. Simply having the key fob within range enables touch-based access, providing a seamless experience every time you approach your car.

System Limitations and Potential Interferences

To ensure optimal performance, consider the following **limitations** of the Keyless Entry System:

- **Proximity Requirement:** The key must be within **3 feet (1 meter)** of the door handle or liftgate for the system to work effectively.
- **Possible Causes for Inoperability:**
    - The key has remained stationary for more than a minute, putting it in sleep mode to conserve battery.
    - The vehicle's battery or the key fob battery is low or completely depleted.
    - There may be interference from nearby electronic devices or metal objects such as smartphones, key rings, or even certain building materials that block the signal.

Customization Options and Settings

The Keyless Entry System can be tailored to your preferences for added convenience:

- **Enabling/Disabling Keyless Entry:** Adjust the feature via **Vehicle Settings > Locks** on the touchscreen display.
- **Reprogramming Two-Stage Unlocking:**
    - To enhance security, you can change the settings so that only the driver's door unlocks first. To activate this, press and hold the **lock** and **unlock** buttons on your key fob simultaneously for **4 seconds** until the lights flash, indicating the change.

Keyless Detection Alerts: Enhanced Safety Notification

- **No Key Detected Alert:** If the vehicle is running and no valid key is detected when you exit, an audible alert will sound, notifying you to prevent accidental lockout or leaving the car running unattended.

Using the Keyless Entry System: Simple and Intuitive

Unlocking the Door:

- With the key fob or an authorized smartphone nearby, simply **touch the sensor** on the door handle. The system authenticates the device and unlocks the door.

Opening the Liftgate:

- To unlock and open the liftgate, press the **liftgate release button**. The system verifies the key's presence before allowing access.

Locking the Door:

- Tap the **lock icon** on the door trim. The vehicle will briefly verify the key fob or phone's proximity before securing the locks, providing a quick visual or audible confirmation.

Troubleshooting Common Keyless Entry Issues

If the system does not respond or function as expected, follow these tips:

System Not Responding:

- **Check Key Limitations:** Ensure the key fob is within the required range and that there are no sources of interference.
- If problems persist, use the **manual key blade** located inside the key fob or the remote control to unlock the vehicle.

Unable to Lock the Vehicle:

- If a rear door or liftgate is open, the system checks for the presence of keys inside. The vehicle will only lock if no key fob is detected inside, preventing accidental lock-ins.

Keyless Entry Keypad: Backup Access When Needed

Keypad Overview: The **Keyless Entry Keypad** allows you to lock and unlock the vehicle without using a key or remote control. It is a useful backup feature for scenarios where the key fob might be unavailable or depleted.

- **Limitations:** The keypad may not function if the vehicle's battery is low or completely drained.
- **Location:** The illuminated keypad is positioned near the driver's window trim, making it easy to locate even in low-light conditions.

Master Access Code: Always-Available Security Backup

What is the Master Access Code?

- This is a **factory-set, five-digit code** that is permanently programmed into the vehicle's system. It can always be used with the keypad to unlock the doors, regardless of custom codes set by the user.

How to Display the Master Access Code in the Instrument Cluster:

- To view the master code, you will need **two programmed keys** inside the vehicle.
- Follow the **backup slot procedure** with both keys placed in the designated backup slot. The code will then appear on the instrument cluster screen.

Enhanced Keyless Entry Features for Your Convenience

This upgraded Keyless Entry System combines **ease of use**, **robust security**, and **customizable settings**, ensuring a hassle-free experience whether you're unlocking, locking, or accessing your vehicle. From automatic notifications and alerts to secure backup methods, the system is designed with your safety and convenience in mind, making every drive smoother and stress-free.

Security

Anti-Theft and Alarm System

Passive Anti-Theft System (PATS): Advanced Vehicle Security

Overview:

- The **Passive Anti-Theft System (PATS)** is a cutting-edge security feature designed to prevent the engine from starting without an **authorized, properly programmed key**. This offers enhanced protection against theft and unauthorized use.
- The system **automatically activates** when the vehicle is switched off and **deactivates** only when started with a recognized, authorized key.
- **Security Tip:** Always take your keys with you and ensure the vehicle is locked when leaving to maximize protection.

Anti-Theft Alarm System: Comprehensive Detection and Response

How It Operates:

- The **anti-theft alarm system** is designed to detect any unauthorized attempts to access or tamper with the vehicle. It provides robust protection by monitoring multiple points and conditions:
  - **Door, Hood, or Liftgate Opened:** Triggers if any of these are accessed without using a valid key.
  - **Unauthorized Ignition Attempt:** Activates when an attempt is made to start the vehicle without an authorized key.
  - **Interior Motion Detection:** Equipped with **ultrasonic sensors** in the cabin to detect any unexpected movement, such as from an intruder.
  - **Tilt or Lift Detection:** Inclination sensors detect if the vehicle is being lifted or towed, preventing potential wheel theft or towing without authorization.
  - **Battery Interference:** The alarm triggers if there's any tampering or disconnection of the battery, adding an additional layer of security.
- **Alarm Response:** When triggered, the system activates the **alarm horn for 30 seconds**, and the exterior lights flash continuously for up to **5 minutes**, alerting anyone nearby.

Disarming the Alarm:

- To stop the alarm:
  - **Unlock** the vehicle using the remote control or key fob.
  - **Start** the vehicle with a valid, authorized key.

Enhanced Security Features

Perimeter Alarm:

- Monitors the vehicle's **exterior** and detects any unauthorized access attempts, such as someone trying to open the doors, hood, or liftgate.

Interior Motion Sensors:

- High-sensitivity sensors installed in the **overhead console** detect any movement inside the cabin. This feature is designed to detect intrusions and is automatically disabled during **cabin preconditioning** to avoid false alarms caused by air circulation.

Inclination Sensors:

- Monitors the vehicle's angle and triggers the alarm if the vehicle is lifted, towed, or if a wheel is being removed. This feature is particularly useful in preventing wheel theft.

Configurable Alarm Security Levels

You can choose from different alarm settings based on your needs:

- **Full Sensor Activation:**
  - Engages **all available sensors**, including perimeter, motion, and inclination sensors. This is the most comprehensive mode, but it is not recommended if passengers, pets, or objects are left inside the vehicle, as they might trigger the alarm.
- **Perimeter Only Mode:**
  - Limits the activation to **external sensors only**, disabling interior motion detection. This mode is ideal when you want to leave passengers or pets inside the vehicle without triggering the alarm.

How to Change Security Levels:

1. Navigate to **Vehicle Settings > Alarm System > Motion Sensors**.
2. Choose your preferred security level from the available options.

Ask on Exit Feature

- The **Ask on Exit** feature prompts you to choose a security level each time you turn off the vehicle. If no selection is made, the system defaults to using the **Full Sensor Activation** mode for maximum protection.

How to Enable/Disable Ask on Exit:

1. Go to **Vehicle Settings > Alarm System > Ask on Exit**.
2. Toggle the feature **on** or **off** based on your preference.

Troubleshooting Common Issues

If you encounter any issues with the Anti-Theft or Alarm System, use the following tips:

- **No Key Detected:**
  - Ensure the key fob is within the specified range and not obstructed by metal objects or electronic interference. If the problem

persists, try using a spare key or consult a service professional.

- **Starting System Fault:**
  - A warning message indicates a potential system error. Do not attempt multiple starts; instead, have your vehicle inspected by a qualified technician immediately.
- **Alarm Triggered:**
  - If the alarm is sounding, simply **start the vehicle** with a valid key to disarm the system.

Frequently Asked Questions

Q1: What should I do if the alarm system is malfunctioning or triggers unexpectedly?

- **A:** Take all remote controls and key fobs to a certified service center for a thorough diagnostic check. The issue could stem from sensor misalignment or interference.

Q2: What if the vehicle does not start with a valid, authorized key?

- **A:** This could indicate a problem with the key or the vehicle's anti-theft system. Have the vehicle inspected by a service technician as soon as possible to avoid being stranded.

By understanding and utilizing these enhanced security features, you can significantly reduce the risk of theft and ensure a safer, more secure experience with your vehicle. The Passive Anti-Theft and Alarm System offers a layered approach to security, giving you peace of mind wherever you go.

Steering Wheel

Steering Wheel Guide: Adjustment, Locking, and Additional Features

Adjusting the Steering Wheel: Personalized Comfort and Control

To achieve the ideal driving position and enhance your comfort and safety, follow these steps:

1. **Ensure Proper Seating Position:**
   - Sit upright with your back against the seat, adjusting the seat height and backrest as necessary. Your arms should be slightly bent when holding the steering wheel.
2. **Unlock the Steering Column:**
   - Locate the **steering column adjustment lever** (usually beneath the column). Pull it down to unlock the column, allowing for easy movement.
3. **Adjust to Your Preferred Position:**
   - Move the steering wheel **up, down, in, or out** to your desired height and reach. Make sure it aligns comfortably with your hands and provides a clear view of the instrument cluster.
4. **Lock the Steering Column:**
   - Push the adjustment lever back up to securely lock the column in place. Ensure it is fully engaged to prevent movement while driving.

Safety Tip:

- Always adjust the steering wheel while the vehicle is stationary to avoid distractions and ensure a secure lock before driving.

Unlocking the Steering Wheel: Quick Access and Flexibility

- The **steering wheel lock** automatically disengages when a valid key fob or authorized mobile device is detected inside the vehicle.
- **Troubleshooting Tip:** If the wheel remains locked, turn on the vehicle power and gently rotate the steering wheel left and right to assist with unlocking.

Note:

- In certain models, the steering wheel might lock temporarily if the vehicle is turned off and the wheel is rotated. Simply power on and repeat the gentle rotation to unlock it.

Locking the Steering Wheel: Enhanced Security

- The steering wheel **automatically locks** as an added security feature when:
  - The vehicle is turned off.
  - The key or authorized device is no longer detected inside the vehicle.
- **Important:** The steering wheel **does not lock** while the vehicle is powered on or in motion, ensuring full control while driving.

Pro Tip:

- If you need to park in a high-theft area, turn the steering wheel slightly after powering off to ensure the lock engages fully.

Horn Activation: Quick Signal and Alert

- To activate the horn, **press firmly** on the center pad of the steering wheel near the horn icon.
- The horn provides a **clear, audible alert** that can be used for signaling in traffic or warning pedestrians.

Tip:

- The horn may have dual zones for activation; pressing either side of the center pad usually works. Check your vehicle manual for details on specific horn areas.

Heated Steering Wheel: Comfort in Cold Weather (If Equipped)

The heated steering wheel offers additional comfort during chilly conditions, providing a warm touch for your hands.

Turning On/Off:

- Press the **heated steering wheel icon** on the touchscreen, located near the climate control settings.
- The button lights up to indicate the heated function is active.
- To turn off, simply press the button again.

Additional Features:

- **Automatic Activation:** The heated function may automatically turn on during a **remote start** or if it was active the last time the vehicle was powered off, offering immediate warmth as you enter the vehicle.
- **Built-in Temperature Regulation:** The system includes a **thermostatic sensor** that maintains the ideal temperature, preventing the wheel from becoming too hot.
- **Usage Condition:** The heated steering wheel function only works when the vehicle is on. It draws

power from the main battery, so it won't operate if the battery charge is low.

Pro Tip:

- Use the heated steering wheel in combination with your seat heaters for maximum comfort during winter driving.

Troubleshooting Common Issues

1. **Steering Wheel Won't Adjust:**
    - Ensure the adjustment lever is fully disengaged. If it feels stuck, gently wiggle the wheel while pulling the lever.
2. **Steering Wheel Remains Locked:**
    - Make sure the key fob is inside the vehicle. If it still won't unlock, turn the vehicle power on and try rotating the wheel while starting.
3. **Heated Steering Wheel Not Warming Up:**
    - Check if the vehicle is powered on. If the button is lit but the wheel isn't warming, it could indicate a sensor issue; consider having it inspected by a service technician.

Wipers and Washers

Wipers and Washers System: Comprehensive Guide

This section provides a detailed overview of the wiper and washer features, ensuring optimal visibility and safety in various weather conditions.

Precautions for Safe Operation

To extend the life of your wiper blades and maintain clear visibility, follow these precautions:

- **Avoid Dry Wiping:**
    - Never use the wipers on a dry windshield. Doing so can cause scratches on the glass and lead to premature wear or damage of the wiper blades.
- **Defrost Before Wiping:**
    - Always defrost and clear ice from the windshield before activating the wipers. Using the wipers on a frozen windshield can damage the rubber blades and affect their performance.
- **Deactivate Wipers Before Car Wash:**
    - Ensure that the wipers are turned off before entering an automated car wash. This prevents potential damage to the wipers and the washing equipment.

Autowipers: Automated Convenience

The **Autowipers** feature intelligently detects rain on the windshield and automatically adjusts the wiper speed based on the amount of moisture detected. This provides a hassle-free experience without needing to manually adjust the wiper settings.

- **Activation and Settings:**
    - Enable or disable the rain-sensing feature through **Vehicle Settings > Wipers > Rain Sensing**.
    - The system may take a moment to detect light rain or drizzle before activating.

Note:

- The rain sensor is located behind the rearview mirror. Keep this area clean for accurate detection.

Wiper Modes: Full Range of Operations

Your vehicle offers various wiper modes for different weather conditions:

1. **Single Wipe:**
    - Quick, manual wipe for light moisture or to clear a splash on the windshield. Tap the lever up for a single swipe.
2. **Intermittent/Auto Wipe:**
    - Adjustable intervals or automatic wiping based on rain intensity (if equipped with Autowipers). Use the rotary dial on the lever to adjust sensitivity.
3. **Normal Speed:**
    - Standard speed for moderate rain conditions. Push the lever down once for continuous wiping.
4. **High Speed:**
    - Fast wiping for heavy rain. Push the lever down twice for the highest speed setting.

Control Tip:

- Use the lever on the right side of the steering column to switch between modes smoothly.

Adjusting Rain Sensor Sensitivity

The sensitivity of the Autowipers can be tailored to suit your preferences and weather conditions:

- **High Sensitivity:**
    - The wipers activate quickly with minimal rainfall, ideal for light drizzle or mist.
- **Low Sensitivity:**
    - The wipers require more substantial rain to activate, reducing unnecessary wipes.

Adjustment Tip:

- Rotate the control knob on the wiper lever to set the desired sensitivity level.

Rear Window Wiper: Enhanced Rear Visibility

The rear wiper offers multiple modes to ensure clear visibility through the rear windshield:

- **Off:**
    - Deactivates the rear wiper.
- **Intermittent:**
    - The wiper operates at intervals, ideal for light rain or mist.
- **Continuous Wipe:**
    - The wiper runs continuously for heavy rain or snow.

Reverse Wipe Feature:

- Automatically activates the rear wiper when the vehicle is in reverse gear and the front wipers are on. Enable or disable this feature via **Vehicle Settings > Wipers > Reverse Wipe**.

Wiper Blade Maintenance: Tips for Longevity

Regular maintenance of your wiper blades ensures clear visibility and reduces the risk of streaking.

- **Checking the Blades:**

- Gently run your fingers along the rubber edge to feel for nicks, tears, or rough spots. Replace if any damage is detected.

Replacing Front Wiper Blades:

1. Switch the vehicle to **Accessory Mode** (engine off, electronics on).
2. Activate the wipers and turn them off when they reach their highest position.
3. Lift the wiper arm away from the windshield, remove the old blade, and securely attach the new one.
4. Ensure it locks in place before lowering the arm.

Replacing Rear Wiper Blades:

1. Lift the rear wiper arm without bending the blade.
2. Slide the old blade off and replace it with a new one, ensuring a firm lock.

Maintenance Tip:

- Replace wiper blades every 6-12 months for optimal performance.

Windshield and Rear Window Washer Systems

Windshield Washer:

- **Operation:** Pull the wiper lever toward you to spray washer fluid onto the windshield.
- **Caution:**
  - Never use the washer function if the fluid reservoir is empty, as this can damage the pump.

Rear Window Washer:

- **Operation:** Push the wiper lever away to activate the rear window washer. It includes a **courtesy wipe** feature, providing an additional swipe to clear residual fluid.

Courtesy Wipe Feature

The **Courtesy Wipe** function offers an extra swipe a few seconds after using the windshield washer to clear any remaining fluid streaks.

- **Settings:** Enable or disable this feature in **Vehicle Settings > Wipers > Courtesy Wipe**.

Adding Washer Fluid: Keep Your Reservoir Topped Up

- **Refill Tip:** Check the washer fluid level regularly, especially before long trips or during winter months.
- Use only washer fluid designed for vehicles to avoid damaging the system. Do not use plain water, as it may freeze and damage the pump.

Troubleshooting Common Issues

1. **Low Washer Fluid Warning:**
   - A warning light or message appears on the dashboard when the fluid level is low. Refill the reservoir promptly to avoid damage to the washer pump.
2. **Streaks or Smears on Windshield:**
   - If streaks appear, the wiper blades may be dirty, worn out, or damaged. Clean the blades with a soft cloth and washer fluid, or replace them if necessary.
3. **No Fluid Spray:**
   - Check that the fluid reservoir is not empty. If the pump is working but no fluid is spraying,

the nozzle may be clogged. Use a pin to gently clear the blockage.

Frequently Asked Questions

Why are there streaks on the windshield despite using washer fluid?

- The wiper blades might be worn out or dirty. Clean the blades with a soft cloth and replace them if necessary.

How often should I replace my wiper blades?

- It is recommended to replace wiper blades every 6-12 months or whenever they show signs of wear, such as streaking or splitting.

Why do my wipers activate even when it's not raining?

- This may occur if the rain sensor detects mist or condensation. Adjust the sensitivity setting or clean the sensor area on the windshield.

Exterior Lighting

Comprehensive Guide to Exterior Lighting Control

Your vehicle is equipped with a sophisticated lighting system designed to enhance visibility, safety, and convenience in various driving conditions. This guide covers the features and settings to ensure you maximize the functionality of your exterior lighting.

Exterior Lighting Options

The exterior lighting control system offers several modes, allowing you to tailor the lighting based on your needs:

- **Off:**
  - All exterior lamps, including headlights and tail lamps, are turned off. This mode is ideal when the vehicle is stationary or parked in well-lit areas.
- **Parking Lamps:**
  - Activates the front and rear parking lights. This mode is useful for low-light parking situations or when visibility needs to be increased without using the full headlights.
- **Autolamps:**
  - Automatically turns on the headlights and tail lamps when the system detects low ambient light (e.g., at dusk or in tunnels) or when the windshield wipers are in use. This mode ensures that your lights are always adjusted for optimal visibility without manual input.
- **Headlamps:**
  - Manually activates the low beam headlights. Use this setting when driving in low-light conditions where automatic activation is not preferred or when additional visibility is required.

High Beam Control: Enhanced Nighttime Visibility

Your vehicle includes a high beam control system that helps improve visibility on dark roads and highways.

Using High Beams Manually:

- **Turning High Beams On:**
  - Push the lever away from you to activate the high beams. This mode provides maximum illumination for unlit roads.

- **Turning High Beams Off:**
    - Pull the lever back toward you to switch off the high beams or to briefly flash the headlights (useful for signaling other drivers).

Automatic High Beam Control:

- The system automatically switches to high beams in low-light situations when no oncoming traffic is detected. It reverts to low beams when it senses headlights from other vehicles, street lights, or adverse weather conditions.
- **Activation/Deactivation:**
    - To enable or disable this feature, go to **Vehicle Settings > Lighting > Auto High Beam**.

Manual Override:

- You can manually override the automatic high beam control by pushing the lever. This allows you to quickly switch between high and low beams as needed.

Headlamp Exit Delay: Illuminated Pathway

The headlamp exit delay feature keeps the headlights on for a short duration after you exit the vehicle, providing illumination as you walk away in dark conditions.

- **Activation:**
    - After turning off the vehicle, pull the turn signal lever once to keep the headlights on briefly.
- **Canceling the Delay:**
    - Pull the lever again to turn off the headlights immediately.

Default Setting:

- Each time you start the vehicle, the system defaults to using autolamps for convenience and safety.

Headlamp Indicators and Automatic Headlamps (Autolamps)

Indicator Lights:

- **Lamps On Indicator:**
    - Illuminates when the low beam headlights or parking lamps are active.
- **High Beam Indicator:**
    - A blue icon appears on the dashboard when high beams are turned on.

Autolamps Feature:

- The autolamps automatically turn on the headlights and tail lamps in low-light conditions or when the windshield wipers are in use. This feature ensures that your lights are always adjusted to the environment without requiring manual input.
- **Adjusting Autolamp Delay:**
    - You can modify the delay for turning off the headlights after the vehicle is powered down via **Vehicle Settings > Lighting > Autolamp Delay**.

Daytime Running Lamps (DRL): Enhanced Visibility

Daytime Running Lamps (DRL) are designed to improve visibility during daylight hours, reducing the risk of accidents.

- **Activation:**

    - Enable DRL through **Vehicle Settings > Lighting > Daytime Running Lights**.
    - DRLs automatically activate when the vehicle is running, not in Park, and the lighting control is set to autolamps.
- **Important Warning:**
    - DRLs do not provide sufficient lighting for nighttime or low-visibility conditions. Always switch to headlights when necessary.

Front Fog Lamps (If Equipped): Improved Foggy Weather Driving

The front fog lamps are designed to provide better visibility in fog, mist, and heavy rain by illuminating the road close to your vehicle.

- **Activating Fog Lamps:**
    - Press the fog lamp button on the dashboard when the low beam headlights or parking lamps are on.
- **Automatic Deactivation:**
    - The fog lamps automatically turn off when the high beams are activated.

Indicator Light:

- An icon on the dashboard illuminates when the front fog lamps are turned on.

Welcome Lighting: Enhanced Entry Experience

The welcome lighting feature adds a touch of convenience and safety by illuminating the exterior lamps when you approach the vehicle with an authorized key or device.

- **Functionality:**
    - The exterior lamps turn on when the vehicle detects an authorized key nearby, the doors are unlocked, or any door is opened.
- **Settings:**
    - Enable or disable this feature via **Vehicle Settings > Lighting > Welcome Lighting**.

Note:

- The welcome lighting may not activate if the vehicle's battery is low or if the system has been triggered multiple times without starting the vehicle.

Exterior Lamp Warnings: Audible Alerts and Troubleshooting

- **Audible Warning:**
    - A chime sounds if the driver's door is opened while any exterior lamp is still on, helping to prevent accidental battery drain.

Troubleshooting Common Exterior Lighting Issues

1. **Condensation Inside Headlamps:**
    - It's normal for a light mist to appear inside the headlamp lens due to temperature changes and humidity. This fine mist should clear within 48 hours of normal driving.
    - **Unacceptable Moisture:** If you notice streaks, water droplets, or puddles inside the headlamp, it may indicate a sealing problem. Have the vehicle inspected by a service professional.
2. **Why Do Headlamps Turn Off Automatically After Vehicle Shutdown?**

    - A built-in battery saver feature switches off the headlights after a short period if the vehicle is turned off, preventing unnecessary battery drain.
3. **Automatic High Beam Control Not Working:**
    - **Low Visibility Warning:** Ensure the windshield is clean and clear of debris, as dirt can interfere with the front camera's ability to detect lighting conditions.
    - **Camera Malfunction:** If the camera overheats or malfunctions, give it time to cool down. Persistent issues should be checked by a technician.

Interior Lighting

Interior Lighting Control
Switching All Interior Lamps On/Off:

- Interior lamps automatically turn on when:
    - A door is opened.
    - The remote control button is pressed.
    - The "all lamps on" button on the overhead console is pressed.
- Press the same button again to turn off all interior lamps.

Front Interior Lamps

- The controls are located on the overhead console.
- **Map Lamps**:
    - Left and right individual map lamps can be turned on/off using the respective buttons.

Rear Interior Lamps

- Rear lamps are positioned above the rear seat or near the rear windows.
- Press the rear lamp button to switch them on or off.
- **Note**: If activated through the overhead console, rear lamps cannot be turned off using the rear button.

Interior Lamp Function

- **Function Overview**:
    - Controls courtesy and door lights.
- **Toggle On/Off**:
    - Press the interior lamp function button. An amber indicator light shows when the door function is disabled.

Instrument Panel Lighting

- **Adjusting Brightness**:
    - Use the dimmer buttons on the lighting control panel.
    - Press repeatedly to increase or decrease brightness.

Ambient Lighting (If Equipped)

- **Turning On/Off**:
    - Navigate to Settings > General > Ambient Light on the touchscreen.
    - Choose a color from the menu.
- **Adjusting Brightness**:
    - Drag the selected color up or down to adjust the lighting level.

Troubleshooting

- **Why do the interior lights turn off after the vehicle is switched off?**

- The battery saver feature automatically turns off interior and courtesy lights after a brief period to conserve battery power.

Windows

Opening and Closing Windows:

- **Open**: Press the window switch down.
- **Close**: Lift the window switch up.
- **Note**: Power windows work with the ignition on and for a few minutes after turning it off, until a front door is opened.

Reducing Wind Noise:

- To minimize wind noise when one window is open, slightly open the opposite window.

One-Touch Feature

- **One-Touch Open**: Press the window switch fully and release. Press or lift again to stop the window.
- **One-Touch Close**: Lift the window switch fully and release. Press or lift again to stop the window.

Resetting One-Touch Close:

1. Close the window.
2. Press and hold the switch to open fully, then hold for a few seconds.
3. Lift and hold the switch to close fully, then hold for a few seconds.
4. Repeat if needed.

Global Opening and Closing

- **Global Opening**:
  - Use the remote control to open all windows.
  - Press and release the unlock button, then press and hold it. Release when windows start to open.
  - To stop, press the lock or unlock button.
- **Global Closing**:
  - Press and hold the lock button on the remote until the windows begin closing.
  - To stop, press the lock or unlock button.

Enable/Disable Global Feature:

- Go to Vehicle Settings > Windows > Toggle Global Open/Close.

Window Bounce-Back

- **What It Is**: The window reverses direction if it detects an obstruction while closing.
- **Overriding Bounce-Back**:
  - Close the window until it hits resistance, then let it reverse.
  - Lift and hold the switch within two seconds to override and manually close the window.

Note: If the window does not close properly, have it inspected.

Rear Window Lock

- **Rear Window Lock/Child Safety Lock**:
  - Located on the driver door, this control disables rear window switches and activates child safety locks.
  - Press once to activate; a light indicates it is on. Press again to deactivate.
  - The settings remain active even after the vehicle is turned off.

Exterior Mirrors

Adjusting the Mirrors:

1. Turn on the vehicle (accessory mode or running).
2. Select the mirror (left or right) using the control switch.
3. Adjust the mirror position using the control pad.
4. Press the control switch again to deactivate the adjustment.

Power Folding Mirrors

- **Folding/Unfolding**:
  - Press the control switch to fold the mirrors, ideal for tight spaces.
  - Press again to unfold.
  - **Note**: Avoid interrupting the mirror movement. Let them complete the folding/unfolding cycle before pressing the control again.
- **System Protection**:
  - Repeated folding/unfolding may temporarily disable the mirrors to prevent overheating. Wait up to 3 minutes (vehicle running) or 10 minutes (vehicle off) for the system to reset.
- **Manual Reset**:
  - If manually folded, the mirrors may require a reset if they vibrate, feel loose, or do not stay in position.
  - To reset, use the power folding control to fold and unfold the mirrors. A noise during this process is normal.

Manual Folding Mirrors

- Push the mirror toward the door glass to fold. Ensure it clicks back into place when returning to the original position.

Heated Mirrors

- **Activation**:
  - Heated mirrors can be switched on through the climate control settings.

Memory Mirrors

- Save and recall mirror positions using the vehicle's memory function.

Directional Indicator Mirrors

- When the turn signal is activated, the corresponding mirror housing blinks to indicate direction.

Puddle Lamps

- The puddle lamps illuminate when approaching the vehicle with a key or phone.
- For vehicles with auto-folding mirrors, the lamps only activate when the mirrors are unfolded and turn off when folded.

Windows

Opening and Closing:

- **Open**: Press the window switch down.
- **Close**: Lift the window switch up.
- **Note**: Power windows operate when the ignition is on and for a few minutes after turning it off, until a front door is opened.

Reducing Wind Noise:

- Slightly open the opposite window to reduce noise when one window is open.

One-Touch Feature

- **One-Touch Open**: Press the window switch fully and release. Press or lift again to stop.
- **One-Touch Close**: Lift the window switch fully and release. Press or lift again to stop.

Resetting One-Touch Close:

1. Close the window.
2. Hold the switch to open fully, then hold for a few seconds.
3. Lift and hold the switch to close fully, then hold for a few seconds.
4. Repeat if necessary.

Global Opening and Closing

- **Global Opening**:
  - Press and release the unlock button on the remote control.
  - Press and hold the unlock button until the windows begin opening. To stop, press the lock or unlock button.
- **Global Closing**:
  - Press and hold the lock button on the remote control until the windows close. To stop, press the lock or unlock button.

Enable/Disable Global Feature:

- Go to Vehicle Settings > Windows > Toggle Global Open/Close.

Window Bounce-Back

- **What It Is**: The window reverses if it detects an obstruction while closing.
- **Override**:
  - Close the window until it hits resistance, let it reverse, then lift and hold the switch within two seconds to bypass bounce-back.

Note: If the window does not close properly, seek inspection.

Rear Window Lock

- **Lock Control**:
  - Located on the driver's door, it deactivates rear window switches and activates child safety locks.
  - Press once to lock; a light indicates activation. Press again to unlock.
  - The lock settings remain active even after the vehicle is turned off.

Remote Start

Remote Start System

Your vehicle's **Remote Start System** is designed for ultimate convenience, allowing you to start the engine from a distance, adjust the interior temperature, and activate comfort features without stepping inside. Whether you're preparing for a chilly winter morning or a hot summer day, remote start ensures that your vehicle is comfortable and ready when you are.

Remote Start System Overview

- **What It Does:**
  - The remote start system lets you start the vehicle from a distance, allowing the engine to run and the climate control to adjust the

interior temperature based on your preset preferences. This feature helps to cool down the cabin in hot weather or warm it up during cold conditions before you enter.

- **Battery Usage Note:**
  - If your vehicle is plugged in while using the remote start, it will draw power from the external charging source rather than the vehicle's battery. This helps preserve your battery life, especially in electric or hybrid models.

Remote Start System Limitations

The remote start feature is designed with safety and security in mind. It will **not function** under certain conditions, including:

- **Active Alarm:**
  - If the vehicle's alarm system is triggered, the remote start will be disabled until the alarm is deactivated.
- **Hood Open:**
  - For safety reasons, the remote start cannot engage if the hood is not properly closed.
- **Vehicle in Gear:**
  - The system requires the vehicle to be in Park (P). If the gear shift is in any other position, remote start will be disabled.
- **Engine Already On:**
  - Remote start cannot activate if the vehicle's engine is already running, whether it was started manually or through a previous remote start session.
- **Settings Disabled:**
  - The remote start feature may be turned off in the vehicle's settings menu. Check the settings if the system does not respond.
- **Low Battery Levels:**
  - If the high-voltage battery (in electric vehicles) or the 12V battery is below the minimum required level, the remote start function will be unavailable.

How to Enable Remote Start

You can easily enable or disable the remote start system via the touchscreen settings:

1. **Navigate to:**
   - Go to **Vehicle Settings > Remote Start Setup**.
2. **Toggle On/Off:**
   - Use the toggle switch to enable or disable the remote start function based on your preference.

Starting and Stopping the Vehicle Remotely

The remote start system is user-friendly and provides clear feedback to confirm successful activation.

- **Starting the Vehicle:**
  1. **Press and Hold:**
     - Press and hold the remote start button on your key fob for a few seconds.
  2. **Confirmation:**

        - The exterior indicators will flash twice, and the parking lamps will turn on, confirming a successful remote start. If the system fails to start, the horn will sound as an alert.
    3. **Security:**
        - The vehicle remains locked and secure during remote start. It will only unlock when a valid key is detected inside, preventing unauthorized access.
- **Stopping the Vehicle:**
    - To stop the engine remotely, press the remote stop button on the key fob. This immediately shuts down the engine and turns off any active climate control features.

Extending Remote Start Duration

If you need more time, you can easily extend the remote start duration without having to restart the process.

- **How to Extend:**
    - Press the **"Extend Time"** button on your key fob to add an additional 15 minutes to the remote start session.
- **Maximum Duration:**
    - The maximum remote start duration is 30 minutes, which includes one initial start and one extension.
- **Reset Requirement:**
    - After two consecutive remote start sessions (or one start with an extension), the vehicle must be manually turned on and off to reset the system and enable remote start again.

Customizing Remote Start Settings

You can personalize the remote start system to meet your comfort needs by adjusting various settings:

1. **Access Remote Start Settings:**
    - Go to **Vehicle Settings > Remote Start Setup**.

Climate Control Settings

- **Auto Mode:**
    - The system automatically adjusts the interior temperature to a comfortable 72°F (22°C), using either the air conditioning or heater based on the external temperature.
- **Last Settings:**
    - The climate control system will restore the previous settings used before the vehicle was last turned off. This option is ideal if you prefer custom temperature settings.

Heated Seats

- **Access Settings:**
    - Go to **Seats > Heated Seats**.
- **Auto Mode:**
    - The heated seats automatically activate during cold weather conditions to provide extra comfort. The system uses sensors to detect low temperatures and engage the heating elements accordingly.

Heated Steering Wheel

- **Access Settings:**

    - Go to **Seats and Steering Wheel > Heated Steering Wheel**.
- **Auto Mode:**
    - The heated steering wheel feature automatically turns on in cold weather to keep your hands warm. The system uses a temperature sensor to activate and regulate the heating function.

Setting Remote Start Duration

You can customize how long the remote start system runs before shutting off automatically:

1. **Navigate to:**
    - Go to **Vehicle Settings > Duration**.
2. **Select Preferred Duration:**
    - Choose from several options, typically ranging from 5 to 15 minutes. This allows you to tailor the remote start time based on your needs, ensuring the vehicle is ready when you are.

Troubleshooting Remote Start Issues

If you experience any problems with the remote start system, refer to these common issues and solutions:

- **System Not Responding:**
    - Verify that the key fob is within the required range (typically 300 ft or 90 m). If issues persist, check the battery level in the key fob or consult the user manual for additional troubleshooting steps.
- **Unable to Lock Vehicle:**
    - If a rear door or liftgate is open, the system checks for keys inside the vehicle. The vehicle will lock only if no valid key is detected inside, preventing accidental lock-ins.
- **Remote Start Disabled Message:**
    - Check the vehicle settings menu to ensure that the remote start function is enabled.

Climate Control

Climate Control System

Your vehicle's **climate control system** is designed to maintain a comfortable cabin environment by managing the temperature, airflow, and humidity levels. The system offers both basic and advanced features to cater to varying weather conditions, providing a pleasant driving experience year-round. Whether you're looking to quickly warm up on a cold morning or cool down in the summer heat, this guide will help you make the most of your climate control features.

Overview

- **Functionality:**
  The climate control system continuously monitors and adjusts the internal temperature and airflow, ensuring optimal comfort for all passengers. It uses a combination of air conditioning, heating, and airflow direction to quickly adapt to changing conditions.

- **User-Friendly Interface:**
  The system is equipped with intuitive controls that allow for quick adjustments, including an automatic mode for hassle-free operation.

Basic Operations

The climate control unit includes several easy-to-use features for quick adjustments:

- **Turning On/Off:**
  - Press the **Climate Control** button on the dashboard to power the system on or off. This button activates the entire climate system, including fan, temperature, and air conditioning settings.
- **Recirculated Air Mode:**
  - Use the **Recirculated Air** button to limit the intake of outside air and recirculate cabin air. This mode enhances cooling efficiency, particularly in hot weather. However, it may automatically turn off to prevent the windows from fogging up.
- **Air Conditioning (A/C):**
  - Press the **A/C** button to turn the air conditioning on or off. It helps maintain a cool and dry interior. For optimal performance, run the A/C for a few minutes every month, even in winter, to keep the system in good condition.
- **Defrost:**
  - Activate the **Defrost** button to direct airflow towards the windshield, helping to clear condensation, ice, or fog. This feature quickly restores visibility.
- **Max Defrost:**
  - Press **Max Defrost** for maximum airflow directed to the windshield. This setting automatically turns on the heated rear window and disables recirculated air to prevent additional fogging.

Advanced Features

Your vehicle's climate control system includes several enhanced features for improved comfort:

- **Max Cooling:**
  - Press the **Max A/C** button for rapid cooling. The air conditioning remains active even after the Max Cooling mode is turned off, ensuring the cabin cools quickly and efficiently.
- **Electric Heater (E-Heat):**
  - The **E-Heat** feature provides immediate warmth using an electric heater. It is particularly effective in cold weather. To conserve battery life in electric vehicles, you can disable E-Heat. However, it is typically enabled by default for user comfort.
- **Heated Wiper Park:**
  - The **Heated Wiper Park** feature activates automatically with the heated rear window. It prevents ice buildup on the wiper blades, enhancing visibility and protecting the wipers from damage.
- **Heated Rear Window:**

- The **Heated Rear Window** feature clears ice, frost, and condensation. Use this feature to quickly restore rear visibility in cold or humid conditions. Avoid using sharp objects to scrape the glass, as this can damage the heating elements.

Adjusting Climate Controls

The climate control system offers precise adjustments for fan speed, temperature, and airflow:

- **Blower Speed Control:**
  - Adjust the **Fan Speed** using the sliding control. Increasing the speed boosts airflow, while decreasing it makes the system quieter.
- **Temperature Adjustment:**
  - Use the **Temperature Control** slider to set your desired cabin temperature. Dual-zone control allows the driver and front passenger to set different temperatures for individualized comfort.
- **Airflow Direction:**
  - Choose the desired airflow direction using the vent controls:
    - **Windshield Vents:** Direct air towards the windshield for defogging and defrosting.
    - **Instrument Panel Vents:** Send air through the front dashboard vents for direct cooling or heating.
    - **Footwell Vents:** Channel air towards the footwells for warming your legs and feet.

Auto Mode

The **Auto Mode** is designed for a seamless, hands-free experience:

- **Activating Auto Mode:**
  - Press the **Auto** button. The system automatically adjusts fan speed, temperature, and airflow direction based on your preset temperature.
  - **Indicator Levels:**
    - **One Light:** Low fan speed for a quieter ride.
    - **Two Lights:** Medium fan speed for balanced temperature adjustment.
    - **Three Lights:** High fan speed for rapid cooling or heating.

Climate Control Tips

Maximize your comfort and efficiency with these helpful tips:

- **General Advice:**
  - Use climate control features as needed to conserve battery life, especially in electric vehicles.
  - Avoid prolonged use of recirculated air to prevent the cabin air from becoming stale or fogging the windows.

- Keep the vehicle's air intakes free from obstructions like snow, ice, or debris for optimal airflow.
- **Automatic Climate Adjustments:**
  - In cold weather, the system may prioritize directing air to the windshield for defogging. In hot weather, it may use recirculated air to cool the cabin faster.

Quick Heating and Cooling Tips

For rapid adjustments in extreme temperatures:

- **Heating the Cabin:**
  1. Press the **Auto** button.
  2. Set the temperature to a comfortable level (e.g., 72°F/22°C).
  3. The system automatically adjusts the fan speed and airflow direction to warm up the cabin quickly.
- **Cooling the Cabin:**
  - Press **Max A/C** for the quickest cooling effect.
  - Adjust the temperature slider for additional comfort as the cabin cools.

Defogging and Defrosting Windows

Fogged windows can obstruct visibility, so use these features for quick clearing:

- **Defogging Side Windows:**
  - Activate the **Defrost** or **Max Defrost** button to direct warm air towards the side windows, helping to remove condensation. Adjust the temperature settings if needed for faster results.
- **Rear Window Defogging:**
  - The heated rear window feature quickly eliminates fog and frost. Use this in combination with the heated wiper park for enhanced visibility in winter conditions.

Wiper and Washer Maintenance Tips

Ensure your climate control system works efficiently by maintaining the wipers and washers:

- **Check Wiper Blades:**
  - Regularly inspect wiper blades for wear and tear. Replace them if you notice streaks or smears on the windshield.
- **Refill Washer Fluid:**
  - Keep the washer fluid reservoir full, especially during winter months, to prevent freezing.

Troubleshooting Common Climate Control Issues

If you encounter any problems with the climate control system, consider the following solutions:

- **Low Airflow:**
  - Check if the air intakes are blocked by debris or snow. Clear any obstructions for better performance.
- **System Not Responding:**
  - Reset the climate control system by turning it off and then back on. If the issue persists, consult a service professional.

- **Fogging Issues:**
    - Use the defrost mode and increase the fan speed. Avoid using recirculated air for extended periods.

Front Seats

Correct Seating Position:

- Sit upright with your spine against the seat back.
- Keep the backrest no more than 30 degrees from vertical.
- Adjust the head restraint to be level with the top of your head.
- Maintain at least 10 inches (25 cm) between your chest and the steering wheel.
- Hold the steering wheel with slightly bent arms, and ensure your legs can fully press the pedals.

Head Restraints

- **Adjustable Head Restraints**:
    - Raise by pulling up; lower by pressing the adjust button while pushing down.
    - Tilt for comfort by pivoting forward; release by tilting fully forward again.
- **Non-Adjustable Head Restraints**: Fixed in position; adjust the seat backrest for proper support.

Removing and Installing Head Restraints:

- **Remove**: Pull up to the highest position, press the adjust and release button, then lift out.
- **Install**: Align the stems and push down until locked.

Seat Adjustments

- **Manual Seats**:
    - Slide the seat forward or backward using the control lever.
    - Adjust the backrest angle for comfort.
- **Power Seats (If Equipped)**:
    - Use the control switches to adjust seat height, cushion tilt, and lumbar support.

Heated Seats

- **Activation**:
    - Press the heated seat button and select the preferred heat level. The more lights, the warmer the seat.
    - Heated seats may remain active after remote start or if they were on when the vehicle was last turned off.
- **Precautions**:
    - Avoid placing heavy objects on the seat.
    - Do not use if the seat is wet; let it dry first.

Rear Seats

Head Restraints:

- **Center Head Restraint**:
    - Raise by pulling up; lower by pressing the release button.
- **Removing/Installing**:
    - Fold the backrest forward, then follow the same steps as for the front head restraints.

Folding and Unfolding Rear Seat Backrests:

- **Folding**:

    - Press the button and fold the backrest forward. Ensure the seatbelts are secured to prevent entanglement.
- **Unfolding**:
    - Lift the backrest until it latches securely.

Rear Occupant Alert System

Overview:

- Alerts you to check the rear seat when turning off the vehicle if a rear door was opened during the trip.

How It Works:

- A message and chime appear when you turn off the ignition, indicating the potential presence of a rear occupant if:
    - A rear door was opened while the ignition was on.
    - The ignition was switched on within 15 minutes of a rear door being opened.

Limitations:

- The system does not detect actual occupants, only door activity.
- Alerts may be triggered even if the rear seat is empty, or may not trigger if the rear seat was accessed through a front door.

Enabling/Disabling:

- Go to Vehicle Settings > Rear Occupant Alert > Toggle On/Off.
- Default setting is on; a reminder message appears every six months if the feature is disabled.

Safety Reminder:

- High temperatures inside the vehicle can cause serious harm or death, especially to children and pets. Always check the rear seats before leaving the vehicle.

Indicators and Warnings:

- The alert message and chime sound briefly when the vehicle is turned off and alert conditions are met. Acknowledge the message by pressing Close.

Starting and Powering Off

Starting and Powering Off Your Vehicle: A Complete Guide

The starting and powering off process is critical for safe and efficient vehicle operation. This guide covers everything you need to know, including important safety precautions, step-by-step instructions, and special features like Fast Restart and Backup Start. Please follow these guidelines to ensure the smooth operation of your vehicle.

Important Safety Precautions:

- **Keep Remote Control Free from Interference:**
    - Ensure the remote control is not placed near metal objects, mobile phones, or other electronic devices, as they might interfere with its signal transmission. This interference could prevent the vehicle from detecting the remote control properly.
- **Remote Control Presence:**

    - A valid remote control must be inside the vehicle to start it. Placing the remote in a bag or container can block the signal, so keep it in your hand or pocket.
    - If the remote control is left inside a locked vehicle, it will be temporarily disabled until you unlock the doors. This feature is designed to prevent unauthorized vehicle access.
- **Vehicle Readiness Check:**
    - Make sure the vehicle is in **Park (P)** before attempting to start. If the vehicle is not in Park, the starting process will not engage.
    - Engage the parking brake for additional safety, especially if parked on an incline. This reduces the risk of unintended vehicle movement.
    - Disconnect the charging cord before starting the vehicle. Attempting to start while plugged into a charging station can result in system errors and may damage the vehicle's electrical components.
- **Children and Pets:**
    - Never leave children or pets unattended in the vehicle, especially when it's powered on or during the starting process. The cabin temperature can change rapidly, and accidental button presses can occur.

Starting the Vehicle: Step-by-Step Guide

1. **Press the Brake Pedal:**
    - Fully depress the brake pedal before pressing the push-button start. The brake pedal must be engaged for the vehicle's electronics to confirm readiness for starting.
2. **Press the Push-Button Start:**
    - With the brake pedal still pressed, push the **start button** firmly. There's no need to touch the accelerator pedal; the vehicle's system automatically adjusts the throttle settings.
    - You will hear a gentle chime, and the instrument cluster will display a "Ready" message once the vehicle is successfully started.

Tips for Starting:

- If the vehicle does not start immediately, release the start button and try again after a few seconds.
- Avoid holding down the start button excessively, as this can trigger a system reset or emergency mode.

Powering Off the Vehicle: Instructions and Safety Notes

- **Standard Power Off:**
    - To turn off the vehicle, make sure it is stationary. Press the **push-button start** without pressing the brake pedal. This will safely power down the vehicle's systems.
    - Wait for the "Vehicle Off" confirmation message on the display screen before exiting.
- **Emergency Power Off While Driving:**
    - If you need to power off the vehicle in an emergency situation while driving, press the

push-button start three times quickly within a two-second window.
    - Alternatively, press and hold the **start button** for at least one second.
    - Once the vehicle powers off, shift immediately to **Neutral (N)** and steer safely to the side of the road. Use the parking brake if necessary.

Precautions:

- Do not attempt to power off the vehicle while driving unless it is an absolute emergency. This can disable power steering and braking assistance, making the vehicle harder to control.
- If the emergency power off is used, the vehicle may require a diagnostic check before it can be restarted.

Fast Restart: Quick and Convenient

- The **Fast Restart** feature allows you to quickly restart the vehicle without the remote control, provided it's done within 10 seconds of switching off.
- **To Use Fast Restart:**
    1. Press the brake pedal within 10 seconds of turning off the vehicle.
    2. Press the **push-button start** again. The vehicle should start immediately, even if it does not detect the remote control signal.

Key Benefits:

- This feature is helpful if the remote control signal is temporarily lost or if the remote is low on battery.
- Fast Restart can be used to quickly turn the vehicle back on after an unintended shutdown, such as when accidentally pressing the start button while parking.

Limitations:

- Fast Restart will not work if the vehicle has been powered off for more than 10 seconds.
- The feature is disabled if the vehicle was shut down due to a system error or emergency stop.

Backup Start: When the Remote Control is Not Detected

In rare cases, the vehicle might not detect the remote control, even if it is inside the cabin. This can occur if the remote control battery is low, if there is signal interference, or if the remote is damaged.

- **How to Use Backup Start:**
    1. Place the remote control in the designated **backup slot**, usually located in the center console or near the cup holders. Check your owner's manual for the exact location.
    2. Fully press the **brake pedal**.
    3. Press the **push-button start** as you normally would. The vehicle will start, bypassing the standard key detection process.

Additional Tips:

- If the remote control battery is dead, replace it as soon as possible to avoid the need for backup starts.
- The backup start feature is designed as a temporary solution. Repeated use may indicate an issue with

the remote control or vehicle's key detection system.

Precautions:

- Keep the backup slot free from debris or objects that could interfere with the remote control's signal.
- If the vehicle consistently fails to detect the remote, have it inspected by a certified technician to rule out any underlying issues.

Troubleshooting Common Issues

1. **No Key Detected Warning:**
    - Ensure the remote control is inside the vehicle and not in a bag or case that might block the signal.
    - If the issue persists, use the backup start procedure or replace the remote control battery.
2. **Vehicle Does Not Start:**
    - Check that the vehicle is in Park (P) and that the brake pedal is fully pressed.
    - Verify that the charging cable is disconnected.
    - If the problem continues, have the vehicle inspected by a service professional.
3. **Unintended Shutdown While Driving:**
    - If the vehicle powers off unexpectedly, steer to a safe location, apply the parking brake, and restart using the Fast Restart or Backup Start feature.
4. **Remote Control Not Working:**
    - Replace the battery in the remote control if it appears unresponsive.
    - Avoid placing the remote control near strong magnets or metal objects that may interfere with its signal.

High Voltage Battery

Battery Overview:

- The high voltage battery stores and powers the vehicle's electric components.
- Avoid contact with high-voltage components, identified by orange labels or coverings.

Best Practices for Battery Health:

- Use charge scheduling to delay charging and set maximum limits for battery longevity.
- Avoid frequent use of DC fast charging, as it may impact battery life, especially in standard-range models.
- Store the vehicle in temperatures between 32°F (0°C) and 113°F (45°C) to optimize battery health.
- For extended storage, maintain the charge at around 50%.

Recycling:

- Follow local regulations for battery recycling.

Charging Your Vehicle

Comprehensive Guide to AC and DC Charging

AC Charging (Home Charging) Overview:

The AC charging process, typically performed at home, is the most convenient and cost-effective way to charge your

vehicle. This method uses a standard household outlet or a dedicated home EV charger, providing a reliable way to replenish your battery overnight or during extended parking.

Step-by-Step Home Charging Instructions:

1. **Prepare the Vehicle:**
    - Ensure your vehicle is parked safely in **Park (P)**. Engage the parking brake, especially if parked on a slope.
    - Confirm that the charge port area is clear of any obstacles or debris.
2. **Open the Charge Port Door:**
    - Press the edge of the **charge port door** gently to release it. The door should open smoothly, revealing the charging inlet.
3. **Connect the Charging Equipment:**
    - Plug the **mobile power cord** into a compatible household outlet (120V or 240V depending on your charger type).
    - Insert the **charging coupler** firmly into the vehicle's charge port. Listen for a click or check for an illuminated charging light to confirm a secure connection.
4. **Automatic Charging Activation:**
    - Charging begins automatically once the connection is secure. By default, the vehicle charges to 100% unless you have set a specific charging schedule or limit in the vehicle settings.
    - **Note:** The charging light on the vehicle may flash blue to indicate active charging.

Tips for Efficient Home Charging:

- Charge your vehicle during **off-peak hours** to take advantage of lower electricity rates and reduce overall costs.
- Regularly charging to 90% is recommended for NCM batteries. For LFP batteries, charging up to 100% is advised for optimal health and performance.

DC Fast Charging (Public Charging): High-Speed Charging

DC fast charging, available at public charging stations, is designed for rapid battery replenishment, making it ideal for long trips or quick top-ups when you're away from home. This method uses high-voltage direct current (DC) to charge the battery much faster than standard AC charging.

Key Features of DC Fast Charging:

- **Rapid Charging Speeds:**
    - DC fast charging can significantly reduce charging time, bringing the battery to 80% in as little as 30-45 minutes, depending on the station and vehicle model.
    - Charging speed may slow above 80% to protect the battery's longevity and avoid overheating.

Charging Tips for DC Fast Charging:

- **Optimize Charging in Cold Weather:**
    - During colder temperatures, turning off cabin heat for the first **10-15 minutes** of charging can help the battery warm up faster, improving charging efficiency.
- **Plan Your Charging Stops:**

- Use the vehicle's navigation system or mobile app to locate nearby DC fast chargers, check their availability, and plan your route accordingly.

Stopping Charging: Safe Disconnect Procedure

1. **Release the Coupler:**
   - Push the **latch release** button on the charging coupler to disengage it from the vehicle's charge port.
   - Pull the coupler out gently; do not force it, as this could damage the port or cable.
2. **Unplug the Connector:**
   - Remove the connector from the wall outlet or charging station. Coil the cable neatly to prevent tripping hazards or damage.

Manual Release Instructions:

- If the coupler does not release automatically, consult your vehicle's manual for the **manual release procedure**. This typically involves using a lever or button near the charge port to unlock the coupler manually.

Charging Settings and Optimization:

1. **Accessing Charging Settings:**
   - Go to the center display or open the vehicle app to adjust charging preferences. You can set charging schedules, manage departure times, and monitor charging status.
2. **Departure Settings:**
   - Set **departure times** to precondition the cabin and battery. This helps optimize battery performance and range, ensuring the vehicle is ready when you need it.

Recommended Charging Settings:

- Enable **scheduled charging** during off-peak hours to save on electricity costs.
- For consistent performance, charge NCM batteries up to **90%** regularly and LFP batteries to **100%**.

Troubleshooting Common Charging Issues

1. **Vehicle Not Charging:**
   - Check the connection points at both the vehicle and the outlet. Ensure the outlet is providing power; try a different outlet if necessary.
   - Inspect the power cord for any visible damage or signs of overheating. If the cord feels warm, allow it to cool before attempting to charge again.
2. **Fan Noise During Charging:**
   - It is normal to hear a **humming or fan noise** while the vehicle charges. This sound comes from the battery's cooling system, which activates to maintain optimal temperatures during charging.
3. **Warning Indicators:**
   - **Amber Light:** A charging fault is detected. Check the connections and ensure the power source is stable. If the problem persists, contact an authorized service center.

- **Blue Light:** The vehicle is actively charging or is ready to charge. This indicates normal operation.
- **Red Light:** An internal error has occurred. Stop charging immediately and contact service for further assistance.

Using the Vehicle App for Charging Management

The vehicle's mobile app provides a comprehensive suite of tools to help manage your charging needs:

- **Monitor Charging Status:** Check the current charging level and time remaining directly from your phone.
- **Set Charging Schedules:** Plan charging times to coincide with lower electricity rates.
- **Find Public Chargers:** Use the integrated map to locate the nearest public charging stations, including DC fast chargers.

Frequently Asked Questions (FAQs)

1. **Why Isn't My Vehicle Charging with the Mobile Power Cord?**
   - Ensure that the cord is securely plugged into both the outlet and the vehicle. Check the outlet for proper functionality, and try a different one if needed.
   - If the cord or outlet is warm to the touch, allow it to cool before attempting to charge again. Avoid charging in extremely hot environments, as this can affect performance.
2. **Why Does My Vehicle Make Noise While Charging?**
   - A humming sound or fan noise during charging is completely normal. This is caused by the battery cooling system, which helps regulate temperature and prevent overheating.
3. **How Can I Maximize Charging Efficiency?**
   - Charge during off-peak hours to take advantage of lower electricity rates.
   - Use departure settings to precondition the vehicle, optimizing both cabin comfort and battery efficiency.

Electric motor

Drive Modes and Shifting

Drive (D):

- Power is transmitted to the wheels for normal driving.

Low (L):

- Provides increased deceleration when the accelerator is released. Best used for hilly terrain or towing.

Shifting Gears

- The gear selector is located on the center console, and the current gear position is shown on the instrument display.
- Rotate the selector to change gears. You cannot shift from Drive (D) to Park (P) in a clockwise rotation

or from Park (P) to Drive (D) in a counterclockwise rotation.
- Press the Low (L) button when in Drive (D) to activate or deactivate the mode.

Shifting Out of Park (P) During Malfunctions:

1. Ensure the parking brake is applied. If the 12V battery is low, connect an external power source.
2. Power on the vehicle without pressing the brake pedal.
3. Hold the brake pedal and accelerator pedal, then shift to Neutral (N).
4. Press the Low (L) button and attempt to start the vehicle. Confirm entry into the mode via display message.
5. Release both pedals and the parking brake.

Returning to Normal Mode:

- Press the brake pedal and shift into Park (P).

Temporary Neutral Mode

Purpose:

- Keeps the vehicle in Neutral (N) temporarily, such as for automatic car washes where you exit the vehicle.

Limitations:

- This mode may be unavailable if the 12V battery is low or if the vehicle is below operating temperature.
- The vehicle will shift back to Park (P) after 30 minutes or if the battery charge is low.

Entering Temporary Neutral Mode:

1. Bring the vehicle to a stop.
2. Press and hold the brake pedal and power on the vehicle.
3. Shift to Neutral (N) and press the Low (L) button.
4. Release the brake pedal and turn off the vehicle.

Exiting Temporary Neutral Mode:

- Press the brake pedal and shift into Park (P), or power on the vehicle and shift to Drive (D) or Reverse (R).

Automatic Return to Park (P)

How It Works:

- The vehicle automatically shifts to Park (P) when stationary if:
  - You switch the vehicle off.
  - The driver door is opened without the seatbelt fastened.
  - The seatbelt is unfastened with the door open.

Limitations:

- Automatic return may not function correctly if the driver door ajar sensor or seatbelt sensor malfunctions. Consult a service center if you experience issues like incorrect seatbelt or door indicators.

Audible Warnings

- **Vehicle Not in Park (P)**: A warning sounds if you open the driver door before shifting into Park (P).
- **Park Selection Warning**: A chime sounds when you shift into Park (P).

All-Wheel Drive (AWD)

How AWD Works:

- The AWD system continuously monitors power distribution between the front and rear wheels to optimize traction and handling.

Precautions:

- AWD improves acceleration in low-traction conditions but does not enhance braking. Always maintain a safe driving speed.
- Drive cautiously on slippery surfaces like sand, gravel, snow, or ice.
- Reduce speed in strong crosswinds, as they can affect steering control.

Limitations:

- Avoid using mismatched tire sizes between the front and rear axles, as this can damage the AWD system.

Troubleshooting and Information Messages

Message	Action
AWD Temporarily Disabled	The system has temporarily turned off to prevent overheating.
AWD Off	The AWD system is not functioning correctly. If the warning persists, contact a service center.
AWD Restored	The system has resumed normal operation.

Brakes

Brake Precautions

- Wet brakes reduce braking efficiency. Gently press the brake pedal after driving through water or leaving a car wash to dry the brakes.
- In some regions, brake lights may flash during heavy braking, followed by hazard lights when the vehicle stops.

Anti-Lock Braking System (ABS)

How ABS Works:

- ABS helps maintain control during hard braking by preventing the wheels from locking up.

Limitations:

- ABS cannot prevent crashes if:
  - You follow the vehicle in front too closely.
  - Your vehicle is hydroplaning.
  - You take corners too quickly.
  - The road surface is poor.

Note: During ABS activation, the brake pedal may pulse. Keep steady pressure on the pedal.

Brake Over Accelerator

If the accelerator pedal is stuck:

1. Apply firm pressure to the brake pedal.
2. Bring the vehicle to a complete stop and shift to Park (P).
3. Turn off the vehicle.
4. Engage the parking brake.

If the issue persists, have the vehicle inspected. For towing, contact a professional towing service.

Brake Fluid

Checking Brake Fluid:

1. Park on a level surface and locate the brake fluid reservoir.
2. Ensure the fluid level is between the MIN and MAX marks.
3. Only use the recommended brake fluid. Using incorrect fluid can cause brake failure.

Warnings:

- Do not use fluid from an unsealed container as it may be contaminated.
- Avoid skin or eye contact with brake fluid. Rinse immediately with water if contact occurs.

Brake Fluid Specification:

- Refer to the "Capacities and Specifications" section for the correct type of brake fluid.

Troubleshooting and Indicators

- **Brake Warning Lamp**: Illuminates briefly when the ignition is turned on to confirm functionality. If it remains on while driving, check the parking brake and brake fluid level. If the parking brake is disengaged and the light stays on, have the system inspected immediately.
- **ABS Indicator**: Illuminates if there is a malfunction in the ABS. Normal braking will still function, but the anti-lock feature is disabled. Have the system checked by a service center.

Frequently Asked Questions

Is Occasional Brake Noise Normal?

- Yes, occasional noise is common. However, if you hear a continuous grinding or squealing sound, the brake linings may be worn out. Have the brakes inspected by a service center.

Note: Brake dust buildup is normal and does not indicate an issue. Clean the wheels regularly.

Electric Parking Brake Overview

The electric parking brake helps secure your vehicle on inclines and flat surfaces.

Applying the Electric Parking Brake

- **Standard Operation**: Pull the switch up to engage the parking brake. A red warning light will illuminate when the brake is applied.
- **Emergency Use**: If needed, you can pull the switch up and hold it to slow or stop your vehicle. The stop lamps will activate, and a warning tone sounds during emergency use. Release the switch to disengage.

Caution:

- Avoid using the electric parking brake while driving, except in emergencies. Repeated use can damage the brake system.
- The electric parking brake won’t work if the vehicle battery is drained.

Releasing the Electric Parking Brake

1. Turn on the vehicle power.

2. Press and hold the brake pedal.
3. Push the switch down to release the parking brake. The warning light will turn off.

Automatic Release

The parking brake automatically releases when:

1. The driver door is closed.
2. You shift into gear and press the accelerator pedal.

Troubleshooting and Indicators

- **Warning Sounds**: If the parking brake is engaged while driving, a warning tone will sound. If the tone continues after release, this indicates a system malfunction; have your vehicle checked.
- **Warning Lamps**:
  - **Red Light**: Indicates the parking brake is applied. If it flashes, there may be a system issue.
  - **Yellow Light**: Signals a malfunction in the parking brake system. Have it inspected immediately.

Releasing the Electric Parking Brake with a Dead Battery

If the battery is depleted, refer to the jump-starting procedure to regain power and release the brake.

Reverse Brake Assist Overview

Reverse Brake Assist helps prevent collisions while reversing by automatically applying the brakes if an obstacle is detected.

How It Works

- Functions when the vehicle is in reverse (R) at speeds of 1–7 mph (2–12 km/h).
- Uses rear sensors to detect obstacles and issues warnings before applying the brakes.
- Braking is applied briefly; you must take control immediately.

Precautions

- Always stay attentive; the system does not replace driver responsibility.
- Severe weather, unusual objects, or accessories like bike racks may affect sensor accuracy.
- The system may not detect smaller or moving objects close to the ground.

Switching Reverse Brake Assist On/Off

1. Go to the **Driver Assistance** settings in the center display.
2. Enable or disable the feature.

Overriding Reverse Brake Assist

Pressing the accelerator firmly or switching off the feature will override any automatic braking.

Troubleshooting Messages

- **Reverse Brake Assist Not Available**: Check that sensors are not obstructed. If the issue persists, have the system inspected.
- **Reverse Brake Assist Fault**: Indicates a system error; have it checked.
- **Reverse Brake Assist Off**: The system is disabled.

Cross Traffic Braking Overview

Cross Traffic Braking assists in avoiding side collisions while reversing by detecting oncoming vehicles and applying the brakes.

How It Works

- Activates when reversing and monitors for vehicles approaching from the sides.
- If a vehicle is detected, a warning is issued through the Cross Traffic Alert system, followed by brief automatic braking.

Precautions

- The driver remains responsible for vehicle control.
- Weather conditions, trailers, or vehicle modifications can affect sensor performance.
- In certain scenarios, such as extreme weather or misaligned bumpers, sensor accuracy may be reduced.

Switching Cross Traffic Braking On/Off

1. Open the **Driver Assistance** menu.
2. Toggle Cross Traffic Alert on or off.

Troubleshooting Messages

- **Cross Traffic Braking Not Available**: Drive straight briefly to allow system recalibration. If the issue persists, have the vehicle inspected.
- **Cross Traffic Braking Fault**: Indicates a system issue; service is required.

Hill Start Assist Overview

Hill Start Assist helps prevent the vehicle from rolling backward on slopes during takeoff by temporarily holding the brakes.

How It Works

- The system activates when the vehicle is stopped on a slope.
- Brakes are held for a few seconds after the brake pedal is released, giving you time to press the accelerator.
- It engages automatically when facing uphill in a forward gear or facing downhill in reverse (R).

Precautions

- Hill Start Assist does not replace the parking brake. Always engage the parking brake when leaving the vehicle.
- Remain in the vehicle and be prepared to take control, as the system only holds the brakes briefly.

Traction Control and Stability Control

What is Traction Control?

The traction control system (TCS) helps prevent drive wheel spin and maintain traction, particularly on slippery or loose surfaces.

How Does Traction Control Work?

When the vehicle starts to lose traction, TCS automatically applies the brakes to individual wheels and reduces engine power if necessary to regain stability.

Switching Traction Control On and Off

- **Default State**: Traction control is enabled by default each time you power on the vehicle.
- **Turning Off Traction Control**:
    1. Locate the stability and traction control switch on the instrument panel.
    2. Press the switch to disable traction control. A message and indicator will appear on the instrument cluster.
    3. Press the switch again to re-enable traction control.
- **When to Turn Off Traction Control**:
    - If the vehicle is stuck in mud or snow, disabling traction control may help the wheels spin freely.

Warning: Disabling traction control increases the risk of losing vehicle control. Use caution, especially on slippery surfaces.

Traction Control Indicator

- **Indicator Light**: The traction control indicator illuminates temporarily during startup and flashes when traction control is actively reducing wheel spin.
- **If the Indicator Stays On**: This may indicate a system malfunction. Have the vehicle inspected by an authorized dealer.

Stability Control Overview

How Does Stability Control Work?

The stability control system helps prevent skids or slides by selectively applying brakes to individual wheels and reducing engine power when needed.

- **Components of Stability Control**:
    - **Electronic Stability Control (ESC)**: Enhances control by applying brakes to individual wheels.
    - **Curve Control**: Reduces speed during severe cornering or obstacle avoidance by braking certain wheels and reducing power.
    - **Traction Control**: Prevents wheel spin. See details above.

Switching Stability Control On and Off

- **Default State**: Stability control is enabled each time you power on the vehicle.
- **Turning Off Stability Control**:
    1. Press and hold the traction control button for 5 seconds to disable both traction control and stability control.
    2. The stability control off indicator light will illuminate.
    3. Press the button again to re-enable stability control.

Note: Disabling stability control reduces the vehicle's ability to maintain control on slippery surfaces and should only be done when necessary, such as during certain off-road conditions.

Stability Control Indicators

- **Indicator Light**: Flashes when stability control or traction control is actively engaged.

- **If the Indicator Stays On**: This indicates a system fault. Contact an authorized dealer for service.

Troubleshooting Messages

Message	Action
Service AdvanceTrac	The system detects a fault; have the vehicle serviced.
Traction Control Off	Traction control has been manually disabled.
ESC Disabled	Stability control has been manually disabled.
ESC Malfunction	A fault is detected; have the vehicle inspected.

Steering System

Electric Power Steering (EPS)

The electric power steering system improves handling and vehicle control using adaptive learning to respond to road irregularities.

- **Adaptive Learning**: Adjusts based on driving conditions to provide better steering feedback and support advanced safety features.

Troubleshooting Steering Issues

- **Steering Fault Messages**:
  - **Steering Fault Service Now**: Indicates a fault requiring service.
  - **Steering Loss Stop Safely**: Stop the vehicle safely and have it inspected immediately.
  - **Steering Assist Fault Service Required**: Reduced steering assist; service is needed.

Precautions:

- If you feel reduced steering assist, adapt your driving speed accordingly and have the system checked.
- There is no steering fluid to check, as EPS is fully electric.

Parking Aids

The parking aid system uses sensors to detect objects around the vehicle and provides visual and audible warnings.

Types of Parking Aids:

1. **Rear Parking Aid**: Detects objects behind the vehicle when in reverse (R).
2. **Front Parking Aid**: Detects objects in front of the vehicle when driving forward.
3. **Side Parking Aid**: Detects objects on the sides of the vehicle.

Audible Warnings

- The warning tone increases in frequency as the vehicle gets closer to an obstacle.
- A continuous tone sounds when an object is within 12 inches (30 cm) of the sensor.

Limitations

- The system may not detect small or moving objects close to the ground.
- Weather conditions like rain, snow, and ice can affect sensor performance.
- Aftermarket accessories may cause false alerts or block sensor coverage.

Troubleshooting

- **Message**: "Check Front/Rear Park Aid" — Indicates a system issue. Have it inspected.
- **Action**: Ensure sensors are clean and free of debris. If the issue persists, contact a service center.

Active Park Assist

What is Active Park Assist? Active Park Assist helps you park your vehicle by automatically steering, accelerating, braking, and shifting gears as needed for parallel or perpendicular parking. The system also assists in exiting parallel parking spaces.

How to Use Active Park Assist

Switching Active Park Assist On and Off

1. Press the **Parking Aid** button on the center console.
2. Press the **Active Park Assist** icon on the touchscreen to enable the system.
3. Choose the desired parking mode:
    - **Parallel Park In**
    - **Perpendicular Park In**
    - **Parallel Park Out**

Cancelling Active Park Assist:

- Shift out of neutral (N) to cancel the system.
- To pause, release the parking aid button.

Resuming Active Park Assist:

- Press and hold the parking aid button again.

Entering a Parallel Parking Space

1. Press the **Parking Aid** button.
2. Tap the **Active Park Assist** icon on the touchscreen.
3. Use the turn signal to indicate the side of the vehicle where you want to park.
    - If no turn signal is used, the system defaults to searching on the passenger side.
4. Drive your vehicle about 3 ft (1 m) away from parked vehicles.
5. Wait for the system to detect a suitable parking space. A tone sounds and a message appears.
6. Press and hold the brake pedal.
7. Shift into neutral (N), then press and hold the **Parking Aid** button.
8. Release the brake pedal and let the system control the vehicle as it parks.
9. When the parking maneuver is complete, the vehicle shifts into park (P).

Tips:

- You can slow down the vehicle at any time by pressing the brake pedal.
- The system parks closer to the object in front for easier access to the trunk.

Entering a Perpendicular Parking Space

1. Press the **Parking Aid** button.
2. Tap the **Active Park Assist** icon on the touchscreen.
3. Select **Perpendicular Parking** mode.
4. Use the turn signal to indicate the side you want to park.
5. Drive about 3 ft (1 m) away from parked vehicles.
6. The system detects the space; press and hold the brake pedal.
7. Shift into neutral (N), then press and hold the **Parking Aid** button.

8. Release the brake pedal and allow the system to maneuver the vehicle.
9. The vehicle will back into the parking space and shift into park (P) when complete.

Note: The system centers the vehicle between objects, not based on parking lines.

Exiting a Parallel Parking Space

1. Press the **Parking Aid** button.
2. Tap the **Active Park Assist** icon on the touchscreen.
3. Select **Parallel Park Exit** mode.
4. Use the turn signal to choose the direction for exit.
5. Press and hold the brake pedal.
6. Shift into neutral (N), then press and hold the **Parking Aid** button.
7. Release the parking brake and let the system maneuver the vehicle out of the space.
8. When prompted, take full control of the vehicle.

Active Park Assist Limitations and Troubleshooting

Why Doesn't Active Park Assist Work Correctly?

- **System Cannot Detect Vehicles or Objects**: Needs boundary objects like vehicles or curbs for operation.
- **Traction Control Is Off**: The system requires traction control to be active.
- **Blocked Sensors**: Snow, ice, or dirt on sensors can interfere with detection.
- **Battery Disconnected**: After reconnecting the battery, drive straight for a short period for the system to recalibrate.

Common Issues:

- **System Does Not Search for Spaces**: Ensure traction control is on and the vehicle is moving forward.
- **System Does Not Offer a Space**: The parking space may be too far away or not large enough.
- **Misaligned Parking**: Irregular curbs or improperly parked vehicles may affect the system's performance.

Active Park Assist Messages

Message	Action
Active Park Fault	The system requires service. Have your vehicle checked as soon as possible.

Frequently Asked Questions

Q: Why doesn’t Active Park Assist search for a parking space?

- Traction control may be off, or the vehicle might be in reverse (R). Ensure the vehicle is moving forward.

Q: Why doesn’t the system offer a parking space?

- Sensors could be blocked or damaged, or there may not be enough space for the vehicle to park safely.

Q: Why isn’t the vehicle correctly positioned in the parking space?

- The system may struggle with irregular curbs, high attachments on nearby vehicles, or if the parking space has changed after the vehicle has already passed.

Important Precautions

- **Always Remain in the Vehicle**: You must stay in control of the vehicle and be ready to intervene if necessary.

- **Avoid Using the System with Accessories**: Items like bike racks or trailer hitches can interfere with the system's sensors.
- **Be Cautious in Poor Weather Conditions**: Heavy rain, snow, or extreme temperatures may reduce the accuracy of the sensors.

Drive Mode Control

The **Drive Mode Control** system allows you to choose different driving modes to suit various conditions and preferences. Each mode adjusts the vehicle's powertrain, suspension, and steering response to provide a customized driving experience.

Frequently Asked Questions (FAQs)

1. **Why did the system default to normal mode?**
    - If a specific drive mode becomes unavailable due to a system fault, the vehicle defaults to **Normal Mode** while keeping the previous settings.
2. **Can I switch drive modes while driving?**
    - Yes, you can switch drive modes while driving or when the vehicle is stationary. However, avoid switching to performance-oriented modes on regular roads (e.g., using a track mode on a public highway).
3. **How long does it take to switch modes?**
    - The selected drive mode activates within a few seconds if all conditions are met.
4. **Will drive modes affect energy consumption?**
    - Yes, the selected drive mode can impact energy usage, along with driving style.

One-Pedal Drive

What is One-Pedal Drive? One-Pedal Drive allows you to control acceleration, deceleration, and stopping using only the accelerator pedal. Pressing the pedal accelerates the vehicle, while releasing it slows down. Fully releasing the pedal may bring the vehicle to a complete stop.

Limitations:

- Not available when:
    - Using active parking assistance.
    - Cruise control is engaged.
    - Stability control is turned off.
    - In certain performance modes.
- It may not bring the vehicle to a complete stop on steep inclines.

How to Enable/Disable:

1. Go to **Settings** > **Controls** on the vehicle's display.
2. Toggle **One-Pedal Drive** on or off.

Indicator:

- An icon appears in the instrument cluster when One-Pedal Drive is active.

Lane Keeping System

What is the Lane Keeping System?

The Lane Keeping System helps you stay in your lane by alerting you or providing minor steering adjustments if it detects the vehicle drifting unintentionally.

How Does It Work?

The system uses a forward-facing camera on the windshield to track lane markings. If the system detects a drift, it may alert you by vibrating the steering wheel or assist by gently steering the vehicle back into the lane. You can choose from three modes:

- Alert: Provides a vibration warning.
- Aid: Offers gentle steering correction.
- Alert + Aid: Combines both vibration and steering assistance.

Safety Precautions

- Responsibility Warning: You must always control your vehicle. The system assists but does not replace attentive driving.
- The system won't work if lane markings are not detected or the sensor is obstructed.
- Weather conditions like rain, snow, and fog can reduce sensor performance.
- Sensor issues may arise from windshield obstructions, damage, or non-approved suspension modifications.

Limitations

- The Lane Keeping System activates only at speeds above 40 mph (64 km/h).
- It requires clear lane markings or road edges to function correctly.
- The system may not work in scenarios like:
    - No detectable lane markings.
    - Active turn signals.
    - Heavy steering, rapid acceleration, or hard braking.
    - Activation of anti-lock brakes, traction control, or stability systems.
    - Narrow or unclear lanes.
    - High winds, uneven roads, or improper tire pressure.

How to Turn the System On/Off

1. Press the Lane Keeping System button on the steering wheel.
2. Access the "Driver Assistance" menu on the vehicle's display.
3. Choose your preferred mode (Alert, Aid, or Alert + Aid).

Adjusting Settings

You can customize the vibration intensity through the "Lane Keeping System" settings in the display menu.

Lane Keeping System Modes

Alert Mode:

- Vibrates the steering wheel when the vehicle drifts out of its lane.

Aid Mode:

- Provides gentle steering assistance to keep the vehicle centered in its lane.

Alert + Aid Mode:

- Combines both vibration alerts and steering assistance for enhanced lane-keeping support.

Indicators

- Gray: System is temporarily unavailable.
- Green: System is ready and active.

- Yellow: The system is providing steering assistance (Aid).
- Red: The system is issuing an alert warning (Alert).

Frequently Asked Questions

Why is the feature unavailable even though I can see lane markings?

Possible causes include:

- Speed is below 40 mph (64 km/h).
- Camera obstructed by direct sunlight or debris.
- Recent lane change, rapid transitions between light and dark, or inconsistent lane markings.
- Active anti-lock brakes or stability control systems.
- Poor visibility due to weather or standing water on the road.
- Lane markings are faint or unclear.
- Lane width is too narrow or too wide.
- Camera not recalibrated after a windshield replacement.

Why doesn't the vehicle stay centered in Aid or Alert + Aid mode?

Possible reasons:

- High crosswinds or uneven road surfaces.
- Heavy road crown or grooves.
- Improper tire pressure or heavy, uneven vehicle load.
- Modifications to tires or suspension.

Blind Spot Assist Integration

What is Blind Spot Assist?

Blind Spot Assist extends the Lane Keeping System to help detect vehicles in your blind spot during lane changes.

How Does It Work?

When active, the system provides a warning and applies steering assistance if a vehicle is detected in your blind spot during a lane change. This feature works with or without turn signals, but you must keep your hands on the wheel.

Limitations

- Blind Spot Assist may not function if lane markings are unclear, sensors are blocked, or if bike or cargo racks are attached.
- It may struggle to detect fast-approaching vehicles or in bad weather conditions.

Troubleshooting and Error Messages

Message	Action
Lane Keeping System Malfunction	Have the vehicle inspected by a professional.
Front Camera Not Available	The camera is temporarily blocked; check for obstructions.
Front Camera Low Visibility	Clean the windshield to restore visibility.
Front Camera Malfunction	Seek professional service immediately.
Keep Hands on Steering Wheel	The system requires you to maintain control.

Parking Assistance

What is Parking Assistance? The system helps you park by automatically steering, braking, and shifting gears.

How to Use:

1. Press the **Parking Assistance** button.
2. Choose between parallel or perpendicular parking on the display.
3. Follow on-screen instructions to release the steering wheel and shift into neutral.
4. Hold the **Parking Assistance** button and release the brake pedal to start parking.

Limitations:

- May not detect irregular curbs or objects with unusual shapes.
- May malfunction if sensors are blocked by dirt, ice, or snow.

How to Cancel:

- Shift out of neutral or release the Parking Assistance button.

Lane Keeping System

Lane Keeping System - Common Questions

Why isn't the lane-keeping feature active even when lane markings are visible?

Possible reasons include:

- Speed is below 40 mph (65 km/h).
- Sunlight directly hits the camera lens.
- A rapid, deliberate lane change was made.
- Prolonged driving too close to the lane markings.
- Navigating sharp curves at high speeds.
- Recent alert or intervention occurred.
- Confusing or unclear lane markings, such as in construction zones.
- Quick changes between light and dark conditions.
- Sudden changes in lane markings.
- Activation of ABS or traction control systems.
- Camera view obstructed by dirt, fog, frost, or water on the windshield.
- Following a vehicle too closely.
- Transitioning between lanes without clear markings.
- Presence of standing water on the road.
- Faint or partial lane markings, particularly on concrete surfaces.
- Lanes are unusually narrow or wide.
- Camera not calibrated after a windshield replacement.
- Driving on uneven roads or sharp curves.

Why doesn't the vehicle stay centered in the lane as expected in Aid or Aid + Alert mode?

Possible reasons:

- Strong crosswinds.
- Noticeable road crown.
- Uneven or rough road surfaces, grooves, or shoulder drop-offs.
- Heavy or uneven vehicle load or incorrect tire pressure.
- Changes in tires or suspension modifications.

Blind Spot Information System Overview

The Blind Spot Information System (BLIS) helps detect vehicles that may enter your blind spot.

How does it work?

- Sensors located on both sides of the vehicle detect objects from the rear mirrors up to about 13 ft (4 m) beyond the rear bumper.
- At speeds above 30 mph (48 km/h), the detection range extends up to 59 ft (18 m) beyond the rear bumper to alert for fast-approaching vehicles.

Precautions

- **Warning:** BLIS is not a substitute for checking mirrors or looking over your shoulder when changing lanes. Use it as a supplement to attentive driving.
- **System Limitations:** It may not function well in severe weather (e.g., snow, ice, heavy rain). BLIS does not detect parked vehicles, pedestrians, animals, or stationary objects.

Limitations

- BLIS is inactive in Park (P) or Reverse (R).
- It may not alert if a vehicle quickly enters the detection zone while overtaking.
- For vehicles without trailer coverage, it is advised to disable BLIS when towing.

Activation Requirements

BLIS activates when:

- The vehicle is started.
- Gear is shifted into Drive (D).
- Speed exceeds 6 mph (10 km/h).

Turning BLIS On/Off

1. Go to the "Driver Assistance" settings in the vehicle's display menu.
2. Toggle the BLIS setting on or off.
    - The alert indicators flash twice when changing the setting.
    - The system remembers your last setting upon restarting the vehicle.

Sensor Location and Care

- Sensors are positioned behind the rear bumper on both sides.
- **Note:** Do not block the sensors with stickers or objects. Obstructions (e.g., bike racks) may cause false alerts. It is recommended to disable BLIS when using a bike or cargo rack.
- In case of sensor blockage, a message will appear on the instrument display, and alert indicators will remain on, but no alerts will be issued.

Indicators

- When BLIS detects a vehicle, an alert light appears in the exterior mirror on the approaching side.
- If the turn signal is used on that side, the alert light flashes.

Troubleshooting

Common Messages and Actions:

Message	Action
Blind Spot System Fault	There’s a system issue. Have the vehicle inspected as soon as possible.

Message	Action
Blind Spot Not Available - Sensor Blocked	Clean the sensors to remove any obstruction.

Blind Spot Information System

What is the Blind Spot Information System (BLIS)?

The Blind Spot Information System (BLIS) helps detect vehicles entering your vehicle's blind spot, alerting you to potential hazards during lane changes.

How Does It Work?

BLIS uses sensors on both sides of the vehicle, positioned near the rear bumper. These sensors cover an area extending approximately:

- **13 feet (4 meters)** from the exterior mirrors, rearward.
- Up to **59 feet (18 meters)** behind the bumper when driving faster than 30 mph (48 km/h), to detect faster-approaching vehicles.

Precautions

- **Important:** BLIS is a supplementary aid. It does not replace the need to check mirrors and look over your shoulder before changing lanes.
- **Weather Warning:** The system may not perform well in severe weather conditions like snow, heavy rain, or ice. Always drive attentively.
- **System Limitations:** BLIS cannot prevent collisions and does not detect parked cars, pedestrians, animals, or stationary objects.

Limitations

- BLIS is inactive when the vehicle is in **Park (P)** or **Reverse (R)**.
- It may not alert you if another vehicle swiftly passes through the detection zone.
- **Towing Limitation:** If your vehicle does not have a trailer coverage feature, it's recommended to turn off BLIS when towing a trailer to avoid false alerts.

Activation Requirements

BLIS automatically activates when:

1. The vehicle is started.
2. It is shifted into **Drive (D)**.
3. The speed exceeds **6 mph (10 km/h)**.

How to Turn BLIS On/Off

1. Open the "Driver Assistance" menu from the vehicle's settings.
2. Toggle the BLIS feature on or off.
    - A warning lamp illuminates when the system is turned off.
    - Alert indicators flash twice when the system is switched on or off.
    - The system retains the last setting when the vehicle is restarted.

Sensor Location and Care

- Sensors are located behind the rear bumper on both sides.
- **Avoid Obstructions:** Do not place stickers or objects on the bumper near the sensors.
- **Bike/Cargo Racks:** May obstruct the sensors, causing false alerts. It's advised to disable BLIS when using bike or cargo racks.

- **Towing Advice:** For vehicles equipped with approved tow modules, BLIS automatically disables when a trailer is connected. For aftermarket tow setups, manually turn off BLIS.

If sensors are blocked, a warning message will appear on the instrument display, and the alert indicators may remain on, but the system won't issue alerts.

Indicators

- **Mirror Alerts:** When BLIS detects a vehicle in your blind spot, a warning light appears in the exterior mirror on the side of the approaching vehicle.
- **Turn Signal Use:** If you signal toward a detected vehicle, the warning light will flash.

Troubleshooting and Error Messages

Message	Action
Blind Spot System Fault	The system has a malfunction. Have your vehicle inspected.
Blind Spot Not Available - Sensor Blocked	Clear any obstructions from the sensors.

Exit Warning System

What is the Exit Warning System?

The Exit Warning System helps alert vehicle occupants to approaching traffic objects when a door is opened. It can detect vehicles, cyclists, scooters, and motorcycles that approach from the rear and enter the exit warning zone.

How Does It Work?

- The system uses radar sensors positioned along the left and right sides of your vehicle. The detection area extends slightly beyond the range of a fully opened door.
- It becomes active when the vehicle is started and remains operational while the vehicle is stationary.

Note: The system cannot detect stationary objects, slow-moving pedestrians, or animals.

Precautions

- **Attention Required:** This feature is not a collision avoidance system. Always check your surroundings before opening the door.
- **Weather Conditions:** Performance may be limited during severe weather (e.g., rain, snow, or fog).
- **System Limitations:** Objects with surfaces that absorb radar signals may not be detected properly.

Limitations

- The system is active when the vehicle is stationary and turns off about **3 minutes** after the vehicle is switched off. It also deactivates immediately if the doors are locked.
- **Parking Position:** The system may not alert you if the parking position blocks sensor detection.
- **Towing:** The system may not work properly if a trailer or bike rack obstructs the sensors.

Exit Warning Alerts

- **Visual and Audible Alerts:** When a door is opened and the system detects an approaching traffic object, it provides both visual and audible alerts on the side where the object is approaching.

- **Exit Warning Prevention (If Equipped):** Some models may include a prevention feature that temporarily disables the inner door handle when an object is detected. This prevents the door from opening until the object has passed.

Override Function: Occupants can manually override the prevention feature by pulling the door handle twice within **5 seconds**.

Integration with Power Child Lock (If Equipped)

- If power child lock and exit warning are both active, a visual and audible alert will notify you. You can override the exit warning by pressing the child lock button twice quickly.
- The doors can still be opened from the outside when both features are active.

Indicators

- **Exterior Mirror Alert:** When an approaching object is detected, an alert indicator lights up on the corresponding exterior mirror.
- **Flashing Indicator:** If the alert or prevention feature is active, the indicator flashes.
- **Instrument Cluster Display:** A visual alert appears in the display, showing which side the traffic object is approaching from.

How to Turn Exit Warning On/Off

- Use the vehicle's touchscreen to enable or disable the system.
- Exit warning automatically turns off **3 minutes** after the vehicle is shut off or immediately when the doors are locked.
- The system remembers the last selected setting upon vehicle restart.

Sensor Location and Care

- Sensors are located behind the rear bumper on both sides of the vehicle.
- **Keep Sensors Clear:** Avoid covering sensors with stickers or debris, as this may affect accuracy.
- **Obstructions:** Bike racks, trailers, or heavy dirt accumulation may impair system functionality.

Troubleshooting and Error Messages

Message	Reason/Action
Left/Right Side Check Surroundings	An alert or prevention is active; check surroundings before exiting.
Exit Warning Turning Off. Exit Safely	The system is deactivating; be cautious when exiting.
Exit Warning System Fault	A system error has been detected; have your vehicle inspected.

Cross Traffic Alert

What is Cross Traffic Alert?

Cross Traffic Alert notifies you of vehicles approaching from the sides while you are reversing.

How Does It Work?

The system uses sensors to detect vehicles moving at speeds between **4–37 mph (6–60 km/h)**. Sensor coverage can be reduced if obstructed or when reversing at narrow angles.

Note: Reversing slowly improves detection accuracy.

Precautions

- **Attention Required:** Always use mirrors and look over your shoulder when reversing. Cross Traffic Alert is a support feature, not a substitute for cautious driving.
- **Weather Impact:** Snow, rain, or ice may affect sensor performance.

Limitations

Cross Traffic Alert may not work correctly if:

- Sensors are blocked or obstructed by parked vehicles.
- Vehicles approach at speeds outside **4–37 mph (6–60 km/h)**.
- Your reversing speed exceeds **7 mph (12 km/h)**.
- You reverse out of angled parking spaces.

Turning Cross Traffic Alert On/Off

1. Access "Driver Assistance" in the settings menu.
2. Toggle Cross Traffic Alert on or off.
    - Alert indicators flash twice when the system is toggled.
    - The system resets to "on" when the vehicle is restarted.

Sensor Location and Care

- Sensors are behind the rear bumper on both sides.
- **Keep Sensors Clear:** Remove snow, ice, or heavy dirt. Avoid covering sensors with stickers or objects.
- **Obstructions:** Bike racks or trailers may block sensors, causing false alerts.

Indicators

When a vehicle is detected:

- A warning tone sounds.
- An alert light appears in the corresponding exterior mirror.
- Arrows display in the instrument cluster to indicate the direction of the approaching vehicle.

System Malfunction: A warning light and message appear if there is a fault. Get the vehicle checked.

Troubleshooting Messages

Message	Action
Cross Traffic Alert	Vehicle detected. Check for approaching traffic.
Cross Traffic Not Available - Sensor Blocked	Clean sensors. If issue persists, get the vehicle inspected.
Cross Traffic System Fault	System malfunction. Get the vehicle inspected.

Pre-Collision Assist

What is Pre-Collision Assist?

Pre-Collision Assist detects potential hazards on the road, such as stationary vehicles, vehicles moving in the same direction, or pedestrians. It helps reduce the risk of a collision by providing multiple levels of assistance.

How Does It Work?

The system offers three levels of assistance:

1. **Alert**: Provides visual and audible warnings.
2. **Brake Support**: Prepares the brakes for stronger braking if you press the brake pedal.
3. **Automatic Emergency Braking**: Applies brakes automatically if a collision seems imminent.

Note: Sensitivity can be adjusted, but high sensitivity is recommended for better response.

Precautions

- **Driver Responsibility**: The system assists but does not replace your control over the vehicle. You must remain attentive at all times.
- **Limitations**: It cannot detect vehicles moving in a different direction or certain objects like animals. Extreme weather may also impact performance.

System Limitations

- The system relies on a front camera and radar sensor. Obstructions or damage can reduce detection capability.
- **Activation**: The system is active at speeds above **3 mph (5 km/h)**.
- **Pedestrian and Cyclist Detection**: Effective up to **50 mph (80 km/h)** but may struggle with complex backgrounds or partially hidden individuals.

Intersection Assist

- The system may help when turning across oncoming traffic or detecting crossing pedestrians at speeds up to **19 mph (30 km/h)**.

Adjusting Settings

- You can modify alert sensitivity and toggle automatic emergency braking or evasive steering assist on or off via the settings menu.

Sensor Care

- **Location**: The radar sensor is behind the lower grille, and the camera is on the windshield.
- **Keep Sensors Clean**: Remove any debris or ice from the camera and radar for optimal performance.

Indicators

- The distance indicator shows the gap between your vehicle and the one ahead. The color changes (blue, yellow, red) based on distance and speed.

Automatic Emergency Braking

- Applies brakes automatically to reduce the severity of an imminent collision.
- It activates every time you start the vehicle but can be turned off in the settings.

Evasive Steering Assist

- Provides additional steering torque if you initiate an evasive maneuver to avoid a collision.
- Deactivates once you safely pass the road user or obstacle.

Note: Evasive steering does not activate unless you begin turning the wheel.

Troubleshooting Messages

Message	Action
Pre-Collision Assist Not Available - Sensor Blocked	Clean the sensor area. If the message persists, get the vehicle inspected.
Pre-Collision Assist Not Available	A system error has occurred; have the vehicle checked.

Frequently Asked Questions

1. **What if the windshield camera area is dirty?**
    - Clean the windshield in front of the camera.
2. **What if the radar sensor area is dirty?**
    - Clean the grille in front of the radar sensor.
3. **Can weather conditions affect the system?**

    - Yes, heavy rain, snow, or fog can interfere. The system will reactivate once conditions improve.
4. **What if the radar is misaligned after an impact?**
    - Have the radar alignment checked and adjusted by a service technician.

Speed Sign Recognition

What is Speed Sign Recognition?

Speed Sign Recognition helps inform you of the current speed limit by detecting and displaying road speed signs in the instrument cluster.

How Does It Work?

- The system uses a front windshield camera to identify speed limit signs.
- If your vehicle is equipped with Map Data integration, stored speed limit information may also be used to supplement detected signs.

Safety Precautions

- **Driver Responsibility**: You must maintain full control of the vehicle. The system is only an aid and does not replace the need for attentive driving.
- **Weather Impact**: Severe weather like rain, snow, or spray can hinder the system's ability to detect signs.
- **Sensor Obstructions**: Ensure the windshield area where the camera is located is clean and free of debris. Windshield repairs around the sensor area may affect performance.
- **Vehicle Modifications**: Non-approved suspension changes or using non-original headlamp bulbs may interfere with the system's function.
- **Recognition Limitations**: Not all traffic signs are recognized or displayed correctly by the system.

Limitations

Speed Sign Recognition may not function accurately in the following scenarios:

- Outdated or incorrect map data affecting speed limit information.
- Misreading speed signs from adjacent roads or exit ramps.
- Difficulty recognizing damaged, dirty, or poorly visible speed signs.

Indicators

- When a speed limit sign is detected, the current speed limit appears on your instrument cluster display.
- **Note**: The appearance of the speed sign icon may vary based on the vehicle's display settings.

Adjusting Settings

1. Open the "Driver Assistance" menu and select "Speed Limit Assist."
2. You can customize the following options:
    - Enable or disable the speed warning feature.
    - Adjust the speed limit tolerance (if available).
    - Tap the help icon next to any option for more details.

Troubleshooting and Error Messages

Message	Details
Traffic Sign Reduced Performance	The system cannot access map data due to weak or no signal. Wait briefly for signal improvement. If the issue persists, have the system inspected.

Frequently Asked Questions

Why does the displayed speed limit change when no sign is visible?

- The speed limit may update based on the stored map data.

Why does the system show an incorrect speed limit?

- This may be due to outdated map data or incorrect sign recognition by the camera.

Driver Alert

What is Driver Alert?

Driver Alert monitors your driving behavior to detect signs of drowsiness or reduced attention and alerts you if necessary.

How Does Driver Alert Work?

The system uses a front windshield camera to assess your alertness based on driving patterns, particularly in relation to lane markings.

Safety Warnings

- **Attention Required**: Driver Alert may issue warnings even if you do not feel tired due to certain driving styles.
- **Weather Conditions**: Rain, snow, and spray can affect sensor performance.
- **Sensor Blockage**: The system will not function if the camera view is obstructed or if the surrounding area is damaged.
- **Modifications**: Using non-approved suspension kits may impair system performance.

Driver Responsibility

- **Driver Control**: This system is an aid and does not replace the need for attentive driving. You must maintain control of the vehicle at all times.
- **Rest Breaks**: Do not rely solely on the system. Take regular breaks if you feel tired.

Limitations

Driver Alert may not work properly if:

- The sensor cannot detect lane markings.
- The vehicle speed is below **40 mph (65 km/h)**.

Turning Driver Alert On/Off

1. Open the "Driver Assistance" menu.
2. Select "Driver Alert."
3. Toggle the feature on or off.

Indicators

The system has a two-stage warning process:

1. **Temporary Warning**: Advises you to take a rest. This message briefly appears in the instrument cluster.
2. **Persistent Warning**: If your driving continues to deteriorate, a stronger warning is displayed until you acknowledge it.

Note: The system does not issue warnings if the vehicle speed drops below **40 mph (65 km/h)**.

Troubleshooting and Error Messages

Message	Action
Driver Alert Warning – Rest Now	Stop and rest as soon as it is safe to do so.
Driver Alert Warning – Rest Suggested	Take a break soon.

Load Carrying Precautions

Overview

It's important to stay within your vehicle's designed weight capacity to maintain performance and safety. This includes understanding your vehicle's load ratings with or without a trailer. Refer to the Tire and Loading Information label or the Safety Compliance Certification label for weight limits.

Key Warnings

- **Overloading Risk**: Exceeding your vehicle's weight limits can impair handling, lead to damage, and increase the risk of rollover or loss of control.
- **Volume vs. Payload Capacity**: Space available does not equal the weight your vehicle can safely carry. Even if there is room for more cargo, do not exceed the maximum payload.
- **Tire Limits**: Replacement tires must have load capacities equal to or higher than the original tires. Lower-rated tires can reduce your vehicle's maximum allowable weight limits.
- **Roof Rack Loading**: Distribute loads evenly and maintain a low center of gravity to avoid handling issues. Heavily loaded vehicles require slower speeds and longer stopping distances.

Finding the Compliance Label

The Safety Compliance Certification label is located near the driver's seat, on the door hinge pillar, door-latch post, or door edge.

Important Weight Terms

1. **Gross Axle Weight Rating (GAWR)**: The maximum weight each axle can support. This includes front and rear axles, as specified on the compliance label.
2. **Gross Vehicle Weight Rating (GVWR)**: The maximum weight of the fully loaded vehicle, including all options, passengers, and cargo.
3. **Maximum Loaded Trailer Weight**: The highest allowable weight for a fully loaded trailer. **Note**: This vehicle is not designed for towing trailers.
4. **Gross Combined Weight Rating (GCWR)**: The combined maximum allowable weight of the vehicle and a loaded trailer, including all cargo and passengers. **Note**: Do not exceed this limit.

Calculating Payload and Load Limits

- **Payload**: The total weight of cargo and passengers your vehicle can carry, as indicated on the Tire and Loading label. This label is typically found on the B-pillar or the driver's door edge.
- **Calculating Load Capacity**:
    1. Find the maximum combined weight limit of occupants and cargo on your vehicle's placard.
    2. Subtract the combined weight of all passengers from this limit.
    3. The result is the remaining cargo capacity.
    4. Example: If the maximum load is **1,400 lbs** and there are five passengers at **150 lbs** each, the available cargo capacity is **650 lbs** (1,400 - 750 = 650 lbs).

Example Calculations

1. **Golf Trip Example**:
    - Capacity: **1,400 lbs**

    - Five passengers at **220 lbs** each and five golf bags at **30 lbs** each.
    - Calculation: 1,400 - (5 × 220) - (5 × 30) = **150 lbs** remaining capacity.
    - In metric units: 635 kg - (5 × 99 kg) - (5 × 13.5 kg) = **72.5 kg** remaining.
2. **Cement Loading Example**:
    - Capacity: **1,400 lbs**
    - Two passengers at **220 lbs** each, and twelve **100-lb** bags of cement.
    - Calculation: 1,400 - (2 × 220) - (12 × 100) = **-240 lbs** (overloaded).
    - Adjusted: Remove three bags of cement, then: 1,400 - (2 × 220) - (9 × 100) = **60 lbs** remaining capacity.
    - In metric units: 635 kg - (2 × 99 kg) - (9 × 45 kg) = **32 kg** remaining.

Note: Ensure the load is distributed properly to avoid exceeding the front or rear axle weight ratings listed on the compliance label.

Luggage Compartment

Luggage Compartment Precautions

- **Safety Warning**: Always lock vehicle doors and the front storage compartment, keeping keys away from children. Kids can lock themselves inside the compartment, risking injury. Teach children not to play in or around vehicles.
- **Front Storage Operation**: The front storage compartment only operates when the vehicle is in Park (P). If there is an issue, a warning tone sounds, and a message appears on the display. Avoid hanging weight from the front compartment, as it may cause damage. If the front compartment closes unexpectedly, check for excess weight or possible strut failure.

Opening the Front Storage Compartment

1. **From Inside**:
    - Ensure the vehicle is in Park (P).
    - Use the touchscreen: Go to "Controls" and press the front compartment icon.
2. **Manually**:
    - Open the left front door and pull the release lever twice to open the front storage.
    - Lift the compartment using the struts for support.
3. **From Outside**:
    - Use the keyless entry keypad: Enter your code, then press 7-8 within 5 seconds.
    - With Phone as a Key: Ensure the authorized phone is within 3 ft (1 m) and press the button to open.

Note: Check the instrument cluster for a front compartment ajar message before driving.

Closing the Front Storage Compartment

- Lower the lid gently and press down with light pressure to secure it.
- **Emergency Release**: If trapped inside, use the interior release button, which glows in the dark after exposure to light.

Removing Luggage Compartment Covers

1. **Rear Cover**:

    - Pull up at the clip locations to release and remove the cover. Reinstall by reversing the process.
2. **Side Covers**:
    - Start at the rear edge, release clips, and carefully remove. Reinstall by reversing the steps.

Adjusting Load Floor

- The load floor can be set to a high position for a flat surface when the rear seats are folded.

Anchor Points

- Anchor points are located behind the rear seats for securing cargo.

Troubleshooting

- **Warning Lamp**: If the front storage compartment is not fully closed, a warning light illuminates when the vehicle is on.

Driving Tips

Driving in Cold Weather

In extremely cold conditions below **-13°F (-25°C)**, certain components of your vehicle may not operate as effectively. These temperatures can affect the performance of systems like the battery, sensors, and electronic components. Always allow extra time for your vehicle to warm up and be cautious of potential icy conditions.

Driving on Snow and Ice

- **Important Warning**: When driving in slippery conditions that require tire chains or snow cables, exercise caution. Keep speeds low, maintain longer stopping distances, and avoid sudden or aggressive steering inputs. Loss of vehicle control can lead to serious injury or even a rollover accident. If the rear of the vehicle begins to slide, turn the steering wheel in the same direction as the skid until you regain control.
- **Use of Anti-Lock Brakes**: Your vehicle features a four-wheel anti-lock braking system (ABS). Do not pump the brake pedal; instead, apply steady pressure to allow ABS to function correctly. This helps prevent wheel lock-up and maintains steering control.
- **All-Wheel Drive (AWD)**: While AWD vehicles offer better traction on snow and ice compared to two-wheel drive vehicles, they can still skid. If your vehicle begins to slide, steer in the direction of the skid. Avoid sudden acceleration or quick changes in direction, as these can cause loss of traction. Apply the throttle smoothly and steadily when starting from a stop.
- **Braking Caution**: Even though an AWD vehicle may have better acceleration in snow and ice, its braking performance is similar to other vehicles. Braking involves all four wheels, so do not become overconfident in adverse conditions. Always allow for longer stopping distances.

Driving Through Mud and Water

Mud

- Driving through mud can be challenging, even for AWD or four-wheel drive vehicles. Be prepared for sudden changes in speed or direction, which can cause the vehicle to lose traction. If the vehicle

starts to slide, steer in the direction of the skid until control is regained.

- **Maintenance Tip**: After driving through mud, it is important to clean off any mud residue stuck to the tires and rotating components like the driveshaft. Excess mud can create an imbalance, potentially leading to damage in the vehicle's drive system.
- **Getting Unstuck**: If your vehicle gets stuck in the mud, you can try rocking it out by alternating between forward and reverse gears. Stop briefly between shifts and press the accelerator lightly in each gear to build momentum.

Water

- **Approaching Water**: When you encounter standing water on the road, approach it cautiously. Driving through deep water can damage vehicle components and affect control. Check the depth of the water before driving through, and avoid water that is higher than the bottom edge of the front doors.
- **Driving Through Water**: When driving through shallow water, move slowly to prevent water from splashing into the engine compartment or other critical areas. Do not stop while in the water. After crossing, lightly press the brake pedal to dry the brakes and ensure they are functioning properly. Test the steering and other controls to make sure they are working.

Driving on Hills

- **Warning**: Use extreme caution when steering in reverse on a downhill slope. Sudden or aggressive steering can cause the vehicle to swerve and lose control.
- When navigating hills or steep slopes, try to drive straight up or straight down rather than diagonally. Driving at an angle increases the risk of losing traction, which could lead to sliding or a rollover.
- **Pre-Route Planning**: Before attempting to drive over a hill, assess the terrain and choose a safe path. Do not drive over the crest of a hill without knowing what is on the other side. Reversing down a hill should only be done with the help of an observer who can guide you.
- **Controlled Power**: Apply just enough throttle to climb the hill without causing wheel spin. Excessive power can cause the tires to slip. When descending a hill, avoid shifting into neutral or sudden braking, as this may lock the front wheels and reduce steering control. Use steady pressure on the brakes to maintain control.

Driving on Sand

- When driving on sandy terrain, try to keep all four wheels on the firmest part of the trail. Avoid sudden or rapid acceleration, which can cause the wheels to spin and lose traction. Drive steadily and smoothly to prevent getting stuck.
- **Extended Driving on Sand**: Avoid driving in deep sand for long periods, as this can overheat the vehicle's drivetrain and cause damage. If the system overheats, a warning message may appear on the instrument display.

- **Freeing a Stuck Vehicle**: If your vehicle becomes stuck in sand, alternate between forward and reverse gears, pausing briefly between shifts. Press the accelerator lightly in each gear to rock the vehicle free.

Driving Through Shallow Water

- **Severe Warning**: Never attempt to drive through deep or rapidly flowing water. Doing so can lead to loss of control, vehicle damage, or potentially life-threatening situations.
- **Water Depth Check**: Before driving through water, verify that its depth is below the bottom edge of your vehicle's side panels. Standing water deeper than this can flood the engine compartment or damage electronic systems.
- **Post-Water Driving**: After crossing through water, gently press the brakes to dry them and test that they are functioning. Check that steering and power assist features are working correctly. Ensure the horn and exterior lights are operational.

Tips for Electric Vehicles

Maximizing Your Driving Range

- In cold weather, precondition your vehicle while it's plugged in to warm the cabin and battery. Use the heated seats and steering wheel instead of setting the cabin temperature too high, as this conserves battery energy.
- **Parking Considerations**: At temperatures near freezing or lower, keep the vehicle plugged in when not in use to maintain battery health. Whenever possible, park in a garage or covered area to moderate temperatures and reduce the energy needed for heating or cooling.

Driving Style

- Aggressive driving, including rapid acceleration and high speeds, can reduce driving range and battery efficiency. Use the trip analysis tool on your vehicle's touchscreen to review your driving performance and make adjustments to improve range.

Floor Mat Safety

- **Proper Use**: Only use floor mats designed for your specific vehicle model. They should fit securely and not obstruct the pedals. Improperly installed or additional mats can interfere with pedal operation and cause a loss of control.
- **Securing the Mats**: Always attach floor mats to the retention posts to prevent them from slipping. Loose mats can slide under the pedals, creating a serious safety risk.
- **Routine Checks**: Regularly inspect the mats to ensure they are securely fastened and free of debris. Loose objects in the footwell can also obstruct the pedals, potentially leading to accidents.

Installing and Removing Mats:

- To install mats with eyelets, position the eyelets over the retention posts and press down firmly. To remove, lift the mats and reverse the process.

Crash and Breakdown Assistance Guide

Comprehensive Roadside Assistance
If you experience a breakdown, emergency, or any vehicle issue, a dedicated roadside assistance program is available. This service operates separately from the standard vehicle warranty, providing immediate help when you need it most:

- **24/7 Support**: Assistance is available at any time, every day of the year, to ensure that help is always within reach.
- **Essential Details for Faster Help**: When contacting the service, have your vehicle's VIN (Vehicle Identification Number), current mileage, and exact location ready to expedite assistance.

Roadside Assistance Services Include:

1. **Tire Change**: If you have a flat tire and a functional spare is available, assistance will help with the replacement. Vehicles equipped only with a tire inflation kit are not eligible for this service.
2. **Battery Jump Start**: Support is available for jump-starting the 12V battery, enabling a quick return to the road if the battery is depleted.
3. **Lock-Out Services**: If you lock yourself out of your vehicle, unlocking assistance is provided. However, the cost of replacing lost keys is not covered and remains the customer's responsibility.
4. **Electric Vehicle (EV) Towing**: If the high-voltage battery does not have enough charge to move the vehicle, you can choose a towing destination within a **50-mile (80 km)** radius, including:
    - An authorized electric vehicle service center.
    - The nearest public charging station.
    - Your home address.
    - **Note**: This ensures that trained technicians handle your electric vehicle appropriately.
5. **Winching Service**: Vehicle recovery is available if your car is within **100 ft (30 m)** of a paved road. Winching from off-road locations or areas not maintained may not be included.
6. **Towing Service**: Your vehicle can be towed to the nearest authorized service center within **50 miles (80 km)**. Additional charges apply if towing beyond this range.
    - Towing services cover warranty issues, non-warranty towing, and accident-related towing. Any towing beyond **50 miles (80 km)** will incur extra fees.
    - **Trailer Assistance**: Up to $200 coverage is available for a towed trailer if your vehicle requires service. However, if the trailer itself is disabled, it may not qualify for assistance.

Contact Information for Roadside Assistance

- **For U.S. Customers**: Call **1-800-555-1234** for help. If you arrange towing on your own, reimbursement may be available. Keep all receipts and contact the same number for reimbursement details.
- **For Canadian Customers**: Dial **1-800-555-5678** for service throughout Canada and the continental U.S. Benefits may differ between Canada and the U.S.,

so check your Warranty Guide for full coverage information.

Electric Vehicle Safety Tips

In emergencies involving electric or hybrid vehicles:

- **Safety Precautions**: Treat all high-voltage components as energized and hazardous. Avoid handling exposed wires, as they may carry dangerous currents.
- **Battery Risks**: Damaged batteries can release toxic fumes, ignite, or pose fire risks. Assume the battery is charged, and handle the situation with extreme care.

Crash Protocol:

1. Move your vehicle to a safe location if possible and remain at the scene.
2. Lower the windows before switching off the vehicle to ensure proper ventilation.
3. Set the parking brake, engage Park (P), activate hazard lights, and move the key at least **16 ft (5 m)** away.

Emergency Instructions:

- Inform emergency responders that the vehicle is electric or hybrid, as this may require special handling.
- Avoid contact with any leaking fluids or vapors and keep a safe distance until help arrives.

Fire Response for Electric Vehicles

If you notice smoke, sparks, or flames:

1. Exit the vehicle immediately and call emergency services.
2. Inform them that the involved vehicle is electric or hybrid for appropriate response measures.
3. Avoid inhaling smoke or fumes, as they may contain hazardous chemicals.

Post-Incident Precautions:

- Store a severely damaged vehicle at least **49 ft (15 m)** away from buildings or other vehicles due to the risk of fire.
- Ensure the cabin is ventilated if there is any sign of a battery leak.

Jump Starting and Battery Cautions

Jump starting applies only to the under-hood 12V battery. Attempting to jump start the high-voltage system can result in severe damage.

Jump Start Procedure:

1. Attach the positive (+) jumper cable to the positive terminal of the depleted battery.
2. Connect the other end of the positive cable to the booster vehicle's positive terminal.
3. Attach the negative (-) jumper cable to the ground point on your vehicle.
4. Start the booster vehicle's engine and run it for several minutes before attempting to start your own vehicle.

Important: Disconnect the cables in the reverse order to prevent electrical damage.

Post-Crash Alert Systems

The vehicle features an automatic alert system to draw attention after a severe collision:

- **Alert Features**:
    - The hazard lights flash automatically.

    - The horn sounds intermittently.
    - Courtesy lights turn on, and doors unlock for emergency access.

Disabling the Alert:

- Press the hazard light button, use the remote control to unlock, or cycle the ignition. If the battery depletes, the system shuts off automatically.

Post-Collision Braking

This safety feature engages after a significant crash to help slow down the vehicle and prevent additional collisions:

- **Activation**: The system applies the brakes automatically following a moderate or severe impact.
- **Manual Override**: Press the brake or accelerator pedal to disable post-collision braking.
- **Indicator Light**: A warning light flashes during the braking event.

Automatic Crash Shutoff

In the case of a severe impact, the high-voltage system in electric and hybrid vehicles is deactivated to minimize electrical risks:

Re-Enable Procedure:

1. Turn the vehicle off, then attempt to restart it twice.
2. If the vehicle still does not start, contact a professional service provider.

Towing and Vehicle Recovery

Proper towing procedures are crucial to avoid damage:

- **Front Towing Point**: Located on the right side of the front bumper, this point can be accessed by gently pressing and removing the cover.
- **Recommended Towing Method**: Use a flatbed or wheel lift with dollies for safe towing. Slingbelt towing is not approved and may damage the vehicle's structure.
- **Winching**: Only use the designated winching points in the front subframe. Avoid using battery protection rails, as this can result in severe damage.

Important Notes for Tow Operators

Professional tow services should follow manufacturer guidelines to ensure the correct hookup:

- Towing should keep all wheels off the ground to prevent damage to the drivetrain and mechanical systems.
- Consult the towing manual for specific instructions tailored to your vehicle model.

Vehicle Towing and Electrical System Guide

Towing Guidelines

Follow these essential towing recommendations to avoid potential vehicle damage. Improper towing can result in costly repairs and is not covered by any standard vehicle warranty.

Important Note: Ensure your vehicle is securely fastened to the tow equipment before proceeding. If you are unsure about the correct towing method for your vehicle's configuration, consult a certified service center.

Recreational Towing

This vehicle cannot be towed with all four wheels on the ground (flat towing) due to the risk of damaging the drivetrain or electric motor components. For safe transport,

use a flatbed trailer or a vehicle carrier that lifts all wheels off the ground.

Emergency Towing

If the vehicle is disabled and flatbed or wheel dollies are unavailable, it can be temporarily flat-towed with all wheels on the ground under these strict conditions:

- The vehicle must face forward during towing.
- **Activate Emergency Tow Mode**.
- Keep towing speed under **30 mph (50 km/h)**.
- Do not exceed a towing distance of **30 miles (50 km)**.

Activating Emergency Tow Mode:

1. Secure the vehicle to the tow apparatus.
2. Switch the ignition to accessory mode (see Starting Procedures).
3. Apply the parking brake.
4. Navigate to the vehicle settings menu and select **Emergency Tow Mode**.
5. Press and hold until a confirmation appears on the screen.
6. Step on the brake pedal firmly.
7. Shift the vehicle to neutral (N).
8. Release the parking brake.
9. Turn off the vehicle.

Deactivating Emergency Tow Mode:

1. Turn on the vehicle.
2. Press and hold the brake pedal.
3. Shift to park (P). A message will appear confirming the vehicle is in park mode.

Electrical System: Fuse and Relay Guide

Fuse Safety Precautions

Caution:

- Disconnect the main battery before handling high-current fuses.
- Ensure the power distribution box cover is in place before reconnecting any electrical systems to prevent shock hazards.
- Always replace fuses with the correct rating. Using a fuse with a higher rating can cause electrical fires or severe damage.

Engine Bay Fuse Panel

The main fuse box is located under the front panel. Follow these steps to access it:

1. Open the front access panel.
2. Release the securing latch and remove the top cover.
3. Lift the fuse box to access the connectors.

Fuse Panel Layout

Fuse No.	Rating	Protected System
1	50 A	Not assigned
2	10 A	Windshield defroster relay
3	20 A	Spare fuse
4	25 A	Drive motor cooling fan
5	15 A	Cabin climate control module
6	30 A	Powertrain coolant pump
7	10 A	Headlamp washer relay
8	40 A	Steering control unit

Additional Fuse Box Components

Fuse No.	Rating	Protected System
9	10 A	Battery Management Module
10	20 A	Electronic Stability Control
11	15 A	Heated Seats Module
12	5 A	Infotainment System Relay
13	25 A	Rear Camera Module
14	15 A	Anti-Lock Braking Unit
15	10 A	Adaptive Lighting System

Battery Compartment Fuse Panel

Located under the rear storage area, this panel contains additional high-current fuses.

Battery Fuse Ratings

Fuse No.	Rating	Component
1	30 A	Main Battery Isolator
2	10 A	Trunk Release Motor
3	15 A	Inverter Power Supply
4	20 A	Auxiliary Cooling Fan

Note: Always handle these fuses with insulated tools to avoid electrical shock.

Control Module Fuse Box

The Body Control Module (BCM) fuse box is inside the cabin, near the driver's footwell.

BCM Fuse Allocation

Fuse No.	Rating	System Protected
1	5 A	Interior Lights
2	10 A	Door Lock Control
3	15 A	Bluetooth Module
4	7.5 A	Keyless Entry System
5	20 A	Rear Defogger
6	25 A	Power Window Module
7	10 A	Head-Up Display
8	30 A	Electric Seat Adjustment

Identifying Common Fuse Types

Type	Description
MicroBlade	Small, low-profile fuses for interior circuits.
MegaFuse	High-current fuses for main battery connections.
MiniFuse	Standard automotive fuses for moderate loads.
MaxFuse	Large, high-capacity fuses for critical systems.

Troubleshooting Fuses

Common Questions:

- **When should I check a fuse?**
  - If any electrical component, such as lights or infotainment, stops working unexpectedly.
- **How do I know if a fuse is blown?**
  - A blown fuse usually has a broken or melted internal wire. Replace it with a fuse of the same rating.

Important Tips:

- Always use the exact fuse rating specified for your vehicle's components.
- If a replaced fuse blows again immediately, it could indicate a deeper electrical problem. Seek professional assistance.

Maintenance Guide

Proper maintenance of your vehicle is crucial for ensuring its longevity, performance, and safety. Regular upkeep not only preserves the car's value but also enhances road safety and reliability. Following these guidelines will help keep your vehicle running smoothly and efficiently, while also maintaining its resale value. Authorized service centers are equipped with specialized tools and trained technicians who understand the specifics of your vehicle model, making them the best choice for complex service and repairs.

General Maintenance Precautions

Key Recommendations:

- Schedule regular check-ups at authorized service centers to keep your vehicle in optimal condition.
- Always use original parts and manufacturer-recommended fluids for all replacements and refills. This guarantees compatibility and reduces the risk of malfunctions.
- Refer to your warranty details to identify which parts and services are covered. Using non-genuine parts may void the warranty and reduce vehicle performance.

Engine Compartment Overview

For any complex repairs or service needs, it is advised to consult certified professionals who have access to specialized diagnostic tools and parts specifically designed for your vehicle. Regular checks of engine components help detect potential issues early.

Key Engine Components:

Item	Description
A	**Coolant Reservoir** – Regularly monitor coolant levels.
B	**Brake Fluid Reservoir** – Check and refill as required.
C	**Engine Fuse Box** – Houses key electrical components.
D	**Washer Fluid Reservoir** – Top up regularly for clear visibility.

Note: Some components may require the removal of a protective cover. Follow the appropriate procedure to avoid damaging sensitive parts.

Coolant System Check

Important Safety Precautions:

- **Never** attempt to open the coolant cap when the engine is hot; this can cause severe burns from steam or hot coolant. Wait at least **15 minutes** for the engine to cool down completely.
- Avoid using coolant in the washer fluid reservoir. If sprayed, it can impair windshield visibility and damage the system components.

- Do not overfill the coolant reservoir beyond the **MAX** line, as the fluid expands when heated.

The cooling system in your vehicle is designed to maintain optimal temperatures for both the battery and the motor. It is important to check the coolant concentration regularly, ensuring it stays within the recommended range of **45% to 55%** for effective freeze protection. This concentration helps protect the system down to **-30°F (-34°C)**.

Adding Coolant

Only use the approved pre-diluted coolant for your vehicle model. Here's how to add coolant if the level is low:

1. Slowly remove the cap, allowing any built-up pressure to release safely.
2. Add the pre-diluted coolant until it reaches the **MAX** mark on the reservoir.
3. Secure the cap tightly and check the level after driving a few times.
4. If you find yourself adding more than **1.2 quarts (1.1 liters)** of coolant monthly, consult a service professional immediately.

Emergency Coolant Addition: In situations where you do not have access to coolant, you may use distilled water temporarily. However, as soon as possible, have the system flushed and refilled with the correct coolant mixture to avoid corrosion or freezing issues.

Battery Maintenance

Your vehicle is equipped with a dual-battery system: a **12-volt auxiliary battery** and a **high-voltage battery pack**. The 12-volt battery powers essential electronics and the high-voltage battery manages propulsion and energy storage.

Charging the 12-Volt Battery

The high-voltage system can transfer energy to maintain the charge of the 12-volt battery, even when the vehicle is off. However, if the high-voltage battery's charge is depleted, the 12-volt battery may also drain. Regularly check both batteries, especially before long trips, to prevent unexpected breakdowns.

Troubleshooting Battery Issues

Warning Lights:

- If the 12-volt battery warning light is illuminated when the vehicle is in ready mode, it indicates a potential issue. Have the vehicle inspected immediately by a certified technician.
- The electric range may decrease if the auxiliary systems, such as hazard lights, are left on when the vehicle is off.

Headlamp Adjustment and Maintenance

Headlamps may require realignment if your vehicle has been involved in an accident or after significant suspension changes. Properly aimed headlamps are crucial for night driving and overall safety.

Steps for Adjusting Vertical Aim:

1. Park your vehicle on a level surface **25 feet (7.6 meters)** from a vertical wall or screen.
2. Measure the height from the ground to the center of the headlamp, and mark this height on the wall.
3. Turn on the low-beam headlights and open the hood.

4. Adjust the headlamp aim using the adjustment screw until the light beam aligns with the mark on the wall.

Lighting Specifications

Most of your vehicle's exterior and interior lights use LED technology, which is durable and energy-efficient. However, these are not user-serviceable. If an LED light fails, visit an authorized service center for replacement.

Vehicle Care

Cleaning and Detailing

Regular cleaning and detailing keep your vehicle looking new and protect its surfaces from environmental damage. Use only recommended products to avoid damaging sensitive materials.

Exterior Cleaning Tips:

- Immediately remove contaminants like bird droppings, tree sap, and road tar to prevent paint damage.
- Use non-abrasive cleaning solutions for chrome, aluminum, and stainless-steel surfaces. Rinse thoroughly to avoid streaking.
- For wheel cleaning, use a pH-neutral cleaner and avoid applying chemicals to hot rims to prevent staining.

Interior Cleaning Tips:

- Clean the dashboard with a damp cloth. Avoid using harsh chemicals that can damage the materials or leave a glare-causing residue.
- For displays and touchscreens, use a microfiber cloth. If necessary, lightly moisten the cloth with isopropyl alcohol.
- Upholstery and carpets should be vacuumed regularly and spot-cleaned as needed. Use mild soap for deeper stains, and avoid excessive water to prevent fabric damage.

Seatbelt Care: Clean with a soft cloth and mild soap. Do not use bleach or harsh chemicals as they can weaken the fabric.

Paint Touch-Up and Waxing

To maintain your vehicle's finish, repair minor scratches using touch-up paint available from your dealer. Follow these steps for best results:

1. Clean the area thoroughly with a bug and tar remover.
2. Apply the touch-up paint according to the manufacturer's instructions.
3. Wax your vehicle at least twice a year using a high-quality, non-abrasive wax.

Note: Avoid waxing matte or textured surfaces, as this can damage their appearance.

Additional Tips for Vehicle Longevity

- Flush the underbody of your vehicle regularly, especially after driving on salted roads or through mud.
- Keep the camera lenses and sensors clean using lukewarm water and a soft cloth. Avoid pressure washing these areas to prevent damage.

By adhering to these enhanced maintenance guidelines, you ensure your vehicle remains in peak condition, providing a safer and more reliable driving experience. Taking the time for regular check-ups and following proper care procedures can prevent costly repairs and extend the life of your vehicle.

Storing Your Vehicle

Properly storing your vehicle for extended periods is crucial to maintaining its performance, reliability, and appearance. If you plan to store your vehicle for **30 days or longer**, follow these comprehensive recommendations to ensure it stays in peak condition.

Preparing Your Vehicle for Long-Term Storage

All vehicles and their components are designed and tested for consistent, everyday use. However, prolonged storage without proper preparation can lead to issues such as component degradation, reduced battery capacity, and increased likelihood of rust. By taking a few simple steps, you can help protect your vehicle from the adverse effects of long-term storage.

General Storage Tips

- Store your vehicle in a **dry, well-ventilated** area. This helps reduce humidity and prevents mold and rust.
- Protect your vehicle from **direct sunlight** to avoid fading of paint and interior trim.
- If outdoor storage is unavoidable, consider using a high-quality **car cover** and performing regular maintenance checks to mitigate environmental damage.

Body and Exterior Care

- **Thoroughly wash** your vehicle to remove all dirt, grease, oil, and other contaminants. Pay special attention to the rear-wheel housing and the underside of the front fenders.
- For vehicles stored outdoors, **wash periodically** to prevent dirt buildup and oxidation.
- Apply touch-up paint to any **exposed metal surfaces** to prevent rusting.
- Apply a thick coat of **automotive wax** to chrome and stainless steel parts to prevent discoloration and pitting. Reapply the wax as needed when you wash the vehicle.
- Lubricate all hinges, latches, and locks, including hood, door, and trunk components, with a **light-grade oil** to prevent seizing.
- Cover interior surfaces to **protect against fading**, especially if stored in direct sunlight.
- Keep all rubber parts, such as weather stripping and seals, free from **oil and solvent contamination**, as these can degrade the material over time.

Cooling System Maintenance

- Ensure the cooling system is protected against **freezing temperatures** by using the correct antifreeze concentration.
- When removing the vehicle from storage, check the **coolant level** and inspect for any signs of leakage or

damage. Top up as needed and ensure all connections are secure.

Battery Care and Maintenance

Proper battery management is essential during storage to prevent discharge and preserve battery life.

High-Voltage Battery:

- For storage exceeding **30 days**, maintain the high-voltage battery at around **50% charge**. This helps balance the battery cells and reduces long-term stress on the system.
- Disconnect the **12-volt auxiliary battery** after ensuring the vehicle is fully powered down and all doors are closed. This minimizes parasitic drain from the vehicle's electronic systems.

12-Volt Battery:

- Periodically check the battery's charge level and recharge as necessary. Ensure the terminals and connections are clean and free from corrosion.
- Note: Disconnecting the battery will reset certain memory features, such as radio presets and clock settings.

Brakes

- Ensure that the **brakes and parking brake** are fully disengaged to prevent them from seizing or binding during storage.
- If storing for an extended period, consider using **wheel chocks** instead of engaging the parking brake, as this helps prevent brake pad adhesion to the rotor.

Tire Maintenance

- Maintain tire pressure at the **recommended levels** to prevent flat spots and uneven wear. Check the pressures periodically and adjust as needed.
- If possible, consider placing the vehicle on **jack stands** to relieve pressure on the tires and suspension components.

Additional Tips for Protection

- Lubricate all **linkages, cables, levers, and pins** underneath the vehicle with a quality grease to prevent rust and corrosion.
- Move the vehicle at least **25 feet (7.5 meters)** every **two weeks** to help lubricate working parts and prevent the formation of flat spots on the tires.

Removing Your Vehicle from Storage

Before driving your vehicle again, follow these steps to ensure it is road-ready and free from any potential issues:

1. **Clean the Exterior:** Wash the vehicle thoroughly to remove any dirt, dust, or grease film that may have accumulated on the windows and body panels.
2. **Inspect Windshield Wipers:** Check the wiper blades for cracks or stiffness, as they may have deteriorated during storage.
3. **Check Tire Pressure:** Adjust the tire pressures according to the manufacturer's specifications found on the tire information label.
4. **Test Brake Operation:** Gently press the brake pedal to ensure it feels firm. Move the vehicle back and forth for at least **15 feet (4.5 meters)** to help remove any surface rust on the brake discs.

5. **Check Fluid Levels:** Inspect coolant, engine oil, brake fluid, and windshield washer fluid levels. Top up as necessary and verify there are no leaks.
6. **Reconnect the 12-Volt Battery:** If you disconnected the auxiliary battery, clean the terminals before reconnecting and ensure all connections are tight.
7. **Inspect for Leaks or Damage:** Look underneath the vehicle for any signs of fluid leaks, rust, or other potential issues.

Final Checks:

- Verify that all **exterior lights**, including headlamps, brake lights, and indicators, are functioning correctly.
- If any warning lights appear on the dashboard, consult the owner's manual or contact an authorized service center.

Contact an Authorized Service Center for a thorough inspection if you notice any concerns or unusual noises during your first drive after storage. This helps ensure that your vehicle remains safe, reliable, and ready for everyday use.

Wheel and Tire Care Guide

Tire Label Location

The **tire label** is typically found on the driver's side B-pillar or door edge. It displays recommended tire pressure for front and rear tires.

Understanding Tire Quality Grades

Tire grades, including Treadwear, Traction, and Temperature ratings, provide essential information about tire performance. For example:

- **Treadwear**: A rating of 150 indicates the tire lasts 1.5 times longer than a tire with a rating of 100.
- **Traction Grades**: Range from AA (best) to C (worst).
- **Temperature Grades**: A (best), B, and C indicate the tire's ability to resist heat buildup.

Sidewall Markings Explained

Federal regulations require tire sidewalls to display key information:

- **Example Size**: P215/65R15 95H
  - **P**: Passenger vehicle tire
  - **215**: Width in millimeters
  - **65**: Aspect ratio (height to width)
  - **R**: Radial construction
  - **15**: Diameter in inches
  - **95H**: Load index and speed rating

Tire Pressure Monitoring System (TPMS)

The TPMS alerts you when tire pressure is too low. It's essential to manually check your tires regularly, even if the TPMS light is off. Low tire pressure can lead to:

- Reduced fuel efficiency
- Faster tire wear
- Risk of tire failure

If the warning light blinks, the system may have a malfunction. Check with a service provider for assistance.

Tire Maintenance Tips

1. **Regular Inspection**:
   - Look for cracks, bulges, or cuts on the sidewalls.

    - Check the tread depth regularly; replace tires when the tread is worn down to 2/32 inches (1.6 mm).
2. **Proper Inflation**:
    - Use a gauge to check tire pressure monthly and adjust as needed.
    - Inflate tires to the **recommended pressure**, found on the tire label or in the owner's manual.
3. **Rotation**:
    - Rotate tires every 5,000–7,500 miles (8,000–12,000 km) for even wear.
    - Adjust tire pressures after rotation as specified.

Seasonal Tires and Chains

- **Summer Tires**: Optimal for warm weather but unsuitable for temperatures below 45°F (7°C).
- **Winter Tires**: Recommended for temperatures below 45°F (7°C) or in snowy conditions. Always install on all four wheels.
- **Snow Chains**: Use only on designated tire sizes (e.g., 225/55R18). Follow speed limits (max 30 mph / 50 km/h).

Handling Tire Emergencies

- **Flat Tires**: If you experience a flat, move to a safe area, use the tire sealant kit if applicable, or replace with a spare.
- **Highway Hazards**: Reduce speed if you feel vibrations or unusual noises, and pull over safely. Inspect tires immediately.

Tire Sealant and Inflator Kit

The kit includes an air compressor and sealant canister for temporary repairs. Key points:

1. **Safety**: Use only when off the road and away from traffic.
2. **Usage**: Inflate the tire for 15 minutes max. Drive 4 miles (6 km) to distribute sealant before checking pressure again.
3. **Replacement**: Replace the sealant canister after one use.

Tire Storage Tips

- Store tires in a **cool, dry place**, away from sunlight and heat sources.
- For storage over one month, remove the tires from the vehicle or raise the vehicle to prevent flat spots.

Wheel and Tire Replacement Guidelines

- Use only the **recommended tire size and type** for your vehicle. Mixing tire types can affect performance and safety.
- Always balance wheels after installing new tires to prevent vibrations and uneven wear.

Checking Wheel Nuts

- **Torque Specification**: Tighten wheel nuts to 150 lb.ft (204 Nm). Recheck torque after 100 miles (160 km) of driving.

Quick Tips for Tire Safety

- **Check tire pressure monthly**, including the spare.
- **Avoid overloading** the vehicle to prevent tire failure.
- **Replace old or worn-out tires** every 6 years, even if the tread seems fine.

Capacities and Specifications Guide

Recommended Replacement Parts
Using original parts ensures optimal performance and longevity. We recommend using **VitaMax®** brand parts available through your authorized dealer.

Component	VitaMax® Part Number
12V Battery	VMAX-B12
Cabin Air Filter	CAF-120
Windshield Wiper Blade (Driver)	WIP-2450D
Windshield Wiper Blade (Passenger)	WIP-2050P
Rear Wiper Blade	WIP-RW1200

Note: Using parts that do not meet these specifications may void the warranty and reduce vehicle efficiency.

Cooling System Capacities and Specifications
Always use coolant that meets **VitaMax® CoolGuard+** specifications to prevent component damage.

Vehicle Variant	Coolant Capacity
Base Rear-Wheel Drive	14.5 qt (13.7 L)
Base All-Wheel Drive	15.8 qt (15.0 L)
Sport All-Wheel Drive	16.2 qt (15.4 L)

Coolant Specification: Use **VitaMax® GreenGuard Antifreeze** (Part Number: VG-13D-G). Avoid mixing with other coolants to maintain system efficiency.

Air Conditioning System Capacities and Specifications
The refrigerant system operates under high pressure. Only certified professionals should handle maintenance.

Refrigerant Type	Capacity
VitaMax® R-1235yf	20 oz (0.57 kg)

Refrigerant Oil Type	Capacity
VitaMax® POE A/C Oil	4.5 fl oz (130 ml)

Warning: Using incorrect refrigerant or oil can lead to reduced performance and system damage.

Windshield Washer Fluid Specification
Maintain visibility by using **VitaMax® Premium Wash Fluid**.

Variant	Washer Fluid Quantity
All Models	Fill as needed

Specification: Use **VitaMax® All-Weather Washer Fluid** (Part Number: VF-32-B2).

Brake Fluid Specifications
Ensure your vehicle's braking system uses the specified fluid to maintain optimal performance.

Variant	Fluid Quantity
All Models	Fill as needed

Specification: **VitaMax® DOT 4 High Performance Brake Fluid** (Part Number: VF-20).

Note: Using fluids that do not meet **ISO 4925 Class 6** standards can affect braking efficiency and lead to potential failures.

Vehicle Identification Number (VIN)

The VIN is located on the left side of the dashboard. It contains crucial information about your vehicle, including:

Position	Description
1-3	Manufacturer Identifier
4-8	Vehicle Attributes
9	Check Digit
10	Model Year
11	Assembly Plant
12-17	Production Sequence Number

Note: The VIN helps track vehicle history, warranty, and recalls.

Connected Vehicle Features

A connected vehicle can utilize mobile networks for enhanced functionality when linked with the **DriveSmart App**. This allows access to:

- Vehicle location tracking
- Remote start and climate control
- Tire pressure monitoring

Enabling Connectivity

1. Open the **Settings** menu.
2. Go to **Connectivity Options**.
3. Toggle **Vehicle Connectivity** to enable or disable.

Connecting to Wi-Fi

1. From the **Settings** menu, press **Wi-Fi**.
2. Select **View Available Networks**.
3. Choose your network and enter the password.

Troubleshooting Wi-Fi Issues:

- Ensure the network signal is strong.
- Verify that you are entering the correct password.
- Avoid using networks with outdated security protocols like **WEP**.

Tire and Fluid Specifications

Revised Recommendations:

- Use only **VitaMax® tire sealant and inflator kits** for emergency repairs.
- Regularly check tire pressure and rotate tires every 6,000 miles (10,000 km).

Tire Pressure Monitoring System (TPMS)

The TPMS alerts the driver when tire pressure is low, helping prevent blowouts and improve fuel efficiency. If the light flashes, it indicates a malfunction that should be inspected by a certified technician.

Common TPMS Alerts:

- **Low Tire Pressure**: Inflate tires to the recommended levels found on the door label.
- **Sensor Fault**: Contact your service provider if the alert persists.

Vehicle Network Troubleshooting

Why can't I connect to a Wi-Fi network?

- Weak signal: Move the vehicle closer to the router.

- Incorrect password: Double-check and try again.
- Hidden network: Manually add the network in settings.

In-Car Wi-Fi, Audio, and Connectivity

Vehicle Wi-Fi Hotspot: Setup and Usage

Your vehicle allows you to create a Wi-Fi hotspot, providing internet access for connected devices while on the go. Follow these steps to get started and troubleshoot any issues effectively.

How to Set Up Wi-Fi Hotspot

1. Navigate to **Settings**, then choose **Connectivity**.
2. Select **Vehicle Hotspot**. The default setting is **On**, so you may already have it activated.
3. Tap **Hotspot Settings**, then select **Edit**.
4. Toggle **Wi-Fi Visibility** on or off, depending on your preference. Visibility is **On** by default, allowing devices to find your network easily.

Viewing Hotspot Details

1. Open **Settings**, select **Connectivity**, and tap **Vehicle Hotspot**.
2. Go to **Hotspot Settings** to view your network information.
3. Toggle **Show Password** to reveal or hide your Wi-Fi password.

Connecting Devices to the Hotspot

1. On your phone or tablet, switch on Wi-Fi and select your vehicle's hotspot from the available networks list.
2. Enter the password as prompted to connect.

Purchasing a Data Plan

1. Connect a device to the hotspot. The network provider's portal should appear automatically.
    - If it doesn't open, try accessing any website; this will usually redirect you.
    - Note: Secure websites may not automatically redirect.
2. Follow the on-screen instructions to buy a data plan.
3. If you already have a plan, visit the network provider's website for additional options or top-ups.

Important Notes:

- Data usage displayed in the hotspot settings is an estimate. For detailed tracking, refer to the provider's app or website.
- Resetting the system does not remove your car from the provider's account. Contact the provider directly if you need to make changes.

Modifying Wi-Fi Hotspot Name or Password

1. Go to **Settings** > **Connectivity** > **Vehicle Hotspot**.
2. Tap **Edit**, then select **Change Network Name** or **Change Password**.
3. Enter the desired name or password and confirm the changes.

Adjusting Wi-Fi Frequency

1. Go to **Settings** > **Connectivity** > **Vehicle Hotspot**.
2. Tap **Edit**, and choose between **2.4 GHz** or **5 GHz**, depending on your device compatibility.

Wi-Fi Hotspot Troubleshooting

Common Issues and Solutions:

- **Can't Find Hotspot Name**: Ensure **Wi-Fi visibility** is enabled. Check if the selected frequency (e.g., 5 GHz) is supported by your device.
- **Connection Problems**: Double-check the password or switch the frequency band. Some devices may only detect 2.4 GHz networks.

Audio System: Controls and Features

The in-car audio system offers a variety of features for your listening enjoyment, including radio, digital services, and media playback options.

Turning the Audio System On/Off

- Press the **Volume** knob or use the power button to turn the system on or off.

Selecting an Audio Source

- Tap your preferred audio source (e.g., FM, AM, Bluetooth, USB) from the menu displayed at the top of the screen.

Using Media Controls

- **Play/Pause**: Tap the play button to start or pause playback.
- **Skip Tracks**: Use the forward/back buttons to navigate through songs.
- **Fast Forward/Rewind**: Press and hold the respective buttons to fast forward or rewind tracks.
- **Shuffle/Repeat**: Toggle these options using on-screen buttons, if supported by the current audio source.

Adjusting Sound Settings

1. Go to **Settings**, then choose **Sound**.
2. You can modify options like **Bass**, **Treble**, **Balance**, **Fade**, and **Speed Compensated Volume**.

Saving Radio Presets

1. Tune to your preferred station.
2. Press and hold a preset button until the audio briefly mutes, indicating the station is saved.

Digital and Satellite Radio Overview

Digital Radio (HD Radio)

HD Radio enhances your listening experience by offering clearer audio. When available, the system automatically switches from analog to digital broadcasts.

- **Indicator Colors**:
  - **Gray**: Acquiring digital signal.
  - **Orange**: Digital audio playing.
- **Limitations**: If the digital signal is weak, the system may revert to analog or mute entirely.

Satellite Radio (FragglesXM)

FragglesXM provides a wide range of channels, including music, news, sports, and talk radio. A complimentary trial is included with your vehicle purchase.

- **Subscription**: For activation or renewal, visit the service provider's website or contact their customer service.
- **Navigating Channels**: Use the **linear tuner** or **direct tune** options to find your favorite channels.

Troubleshooting Satellite Radio:

- **No Signal**: The antenna might be obstructed. Try relocating the vehicle to a clear, open area.

- **Error Messages**: Follow on-screen prompts or consult the provider's help page for specific solutions.

Bluetooth® Connectivity: Pairing and Media Playback
Pairing Your Device

1. Go to **Settings** > **Phone List**, then tap **Add Phone**.
2. On your mobile device, select your car's name and confirm the pairing code.
3. The screen will indicate successful pairing.

Playing Music via Bluetooth®

1. Open the **App Launcher**, choose **Media**, then select **Bluetooth**.
2. Use on-screen controls to play, pause, skip, or rewind tracks.

Browsing Music Library
When your phone is connected, you can browse songs, albums, artists, and playlists directly through the vehicle's touchscreen interface.
Note: Some functions may be limited while the vehicle is in motion for safety reasons.

Personal Profiles: Customizing Your Experience
Your vehicle allows you to set up multiple user profiles, each with unique settings for seats, mirrors, audio, and driver assist features.
Creating a Personal Profile

1. With the vehicle in park, go to **Settings** > **Personal Profiles**.
2. Tap **Add New** and follow the prompts to personalize your settings.

Linking a Profile to a Device
You can link profiles to a key fob or smartphone, allowing the vehicle to automatically load your preferences when the linked device is used.

1. Go to **Personal Profiles**, select the profile, then choose **Link Device**.
2. Follow the on-screen instructions to complete the setup.

Deleting a Profile

1. Open **Personal Profiles** in the settings menu.
2. Select the profile you wish to delete, then tap **Delete Profile**.

Tips:

- Linked devices such as key fobs or phones will automatically activate your profile when detected.
- The system prioritizes the first detected device if multiple linked devices are present.

Rebooting the Center Display
If the system becomes unresponsive, you can perform a quick reboot:

1. Press and hold the **Seek Forward** and **Volume Down** buttons simultaneously for 10 seconds.
2. The screen will go black and restart, typically resolving minor issues.

Comprehensive Navigation System Guide

Introduction to Your Navigation System
Your vehicle's advanced navigation system is designed to offer precise guidance, real-time updates, and a variety of routing options to enhance your driving experience. Equipped with connected services, the system can provide turn-by-turn directions, traffic updates, and predictive destination suggestions.
If your vehicle includes **Connected Navigation**, you may receive a free trial period after purchase. Subscription renewal is required after the trial ends. For more details on plans and services, visit **FragglesConnected.com**.

Accessing the Navigation System
To get started with navigation:

1. Open the **App Drawer** on the touchscreen display.
2. Select the **Navigation** icon to launch the map interface.

Important: Stay attentive and comply with local traffic rules. Your primary focus should be on safe driving, regardless of the navigation prompts.

Updating Map Data
Your map data needs periodic updates for optimal accuracy. There are two main ways to update your maps:

1. **Wi-Fi Updates**: Connect your vehicle to a Wi-Fi network and let it automatically update map data when new versions are available.
2. **USB Updates**: For manual updates via USB, contact your Fraggles dealer or visit the support page on **FragglesConnected.com**.

- **Report Map Errors**: If you encounter inaccuracies, help improve the map data by reporting issues at **MapFixPortal.com**.

Customizing the Map Display
Your navigation system provides several options for customizing how the map looks:

- **Zoom In/Out**: Use pinch-to-zoom gestures—spread your fingers apart to zoom in and pinch them together to zoom out for a broader view.
- **Change Map View**: Switch between 2D, 3D, and satellite formats by tapping the **View Mode** button on the left side of the screen.
- **Night Mode**: The system automatically shifts to night mode based on lighting conditions, but you can manually adjust this in the settings menu.

Real-Time Traffic Information
Understanding Live Traffic
Live traffic updates allow you to see real-time road conditions, traffic jams, and potential delays on your route.
Activating Live Traffic
To toggle live traffic updates:

1. Tap the **Tools** icon on the map.
2. Go to **Navigation Settings**.
3. Turn **Traffic Updates** on or off as needed.

Setting a Destination: Multiple Options
The navigation system offers various ways to set a destination. Choose the method that best suits your needs:
Using the Search Bar

1. Tap the **Search Bar** at the top of the screen.
2. Enter an address, landmark, or point of interest.
3. Choose your desired destination from the search results.
4. Press **Go!** to start navigating.

Using the Interactive Map

1. Tap anywhere on the map to enter roaming mode.
2. Tap again to drop a pin at your desired location.
3. View location details and press **Go!** to begin navigation.

Predictive Destinations

The system can suggest destinations based on your past driving habits.

- **Enable or Disable Predictive Suggestions**: Go to **User Data** in the navigation settings and toggle **Destination Suggestions** on or off.
- **Selecting a Predictive Destination**: Suggested locations appear at the top of the screen. Tap the suggestion to navigate.

Recent, Saved, and Favorite Destinations

Setting a Recent Destination

1. Open the **Search Bar** and select **Recents**.
2. Choose a destination from your recent trips.

Using Saved Places

1. Tap the **Search Bar**.
2. Go to **Saved Places** and select a location.
3. Press **Go!** to navigate.

Tip: Save frequently visited places by tapping the star icon when viewing a location's details.

Navigating to Points of Interest (POIs)

Points of Interest such as gas stations, restaurants, and landmarks are displayed on the map.

1. Tap a POI icon directly on the map.
2. View information about the location.
3. Press **Go!** to navigate there.

Adding Waypoints and Customizing Your Route

You can enhance your trip by adding waypoints, allowing for multiple stops along your route.

Adding a Waypoint

1. Start navigation to your primary destination.
2. Use the **Search Bar** to find a location you want to add as a waypoint.
3. Press **Go!**, then select **Add Waypoint** to include it in your journey.

Managing Waypoints

1. Tap the **Search Bar** and go to **myTrips**.
2. Select **Current Trip**.
3. Use the options to add, remove, or rearrange your waypoints.

Note: The system re-calculates the route based on the updated waypoints.

Route Guidance Features

The navigation system provides clear and timely voice guidance. You can customize the guidance experience as follows:

Adjusting the Voice Guidance Volume

Turn the **Volume Control** knob or use steering wheel buttons while the guidance prompt is playing to adjust the volume.

Repeating a Guidance Prompt

If you miss an instruction, tap the **Repeat** button or the **Turn Indicator** icon on the screen to hear the last command again.

Canceling Navigation

To stop navigation at any time, press the **Cancel Route** button on the touchscreen.

Additional Navigation Settings

Explore the **Navigation Settings** menu for more advanced features:

- **Avoid Toll Roads**: Enable or disable toll road avoidance.
- **Eco Route**: Choose fuel-efficient routing to save on gas.
- **Fastest Route**: Prioritize speed to reach your destination quickly.

Troubleshooting Common Navigation Issues

1. **Weak GPS Signal**: If the GPS signal is weak, make sure the vehicle has a clear view of the sky, free from obstructions like tall buildings or dense tree cover.
2. **Map Not Updating**: Ensure your Wi-Fi connection is active or attempt a manual update via USB.
3. **Unresponsive Screen**: If the touchscreen is not responding, reboot the system by holding down the **Seek Forward** and **Volume Down** buttons for 10 seconds.

Tips for Optimized Navigation Experience

- **Voice Commands**: Utilize voice commands to enter destinations hands-free by saying, "Navigate to [destination]."
- **Offline Navigation**: Download maps for offline use if you plan to drive in areas with poor cellular connectivity.
- **Safety Alerts**: Keep safety alerts enabled to receive notifications about road hazards, speed limits, and traffic cameras.

Fraggles Vehicle Software Updates Overview

Your Fraggles vehicle is equipped with a sophisticated software update system designed to keep your vehicle's features, performance, and security at peak levels. The updates deliver enhancements, new features, bug fixes, and critical security patches. For the best experience, ensure you have **Automatic Updates** turned on, establish a consistent update schedule, and connect your vehicle to a stable Wi-Fi network. Without a Wi-Fi connection, updates may be delayed or fail to download.

Types of Software Updates

Fraggles vehicles support two primary types of updates:

1. **Drivable Updates**: These updates are small and can be installed while you continue to use your vehicle

normally. They require minimal interaction from the driver, making the process seamless.

2. **Non-Drivable Updates**: These larger updates require the vehicle to be parked, switched off, and typically occur when the vehicle is not in use. They often contain significant software changes or feature enhancements. Non-drivable updates generally take 30 to 60 minutes but may take up to several hours depending on the size and complexity of the update.

Tip: To avoid disruptions, schedule non-drivable updates during times when you don't need your vehicle, such as overnight.

Notifications and Alerts

Fraggles vehicles keep you informed about software updates through notifications on the touchscreen and via the Fraggles Connect app on your mobile device. You can easily check the update status and details at any time.

- **Top Left of Touchscreen**: Displays alerts for available updates, pending installations, and completion notifications.
- **Fraggles Connect App**: Syncs with your vehicle to provide real-time update notifications, including installation progress and any issues that may arise.

Conditions for Non-Drivable Software Updates

For a non-drivable update to proceed, several conditions must be met. The update **will not start** if:

- The vehicle's engine is running or the ignition is on.
- The vehicle is not in park (P).
- The 12V battery level is low, risking a loss of power during the update.
- Any door, trunk, or hood is open.
- Hazard lights or parking lights are active.
- The brake pedal is pressed or an emergency call is in progress.
- The vehicle is in "Limp Mode" (reduced power mode due to a detected issue).

Pro Tip: Before initiating an update, make sure your vehicle is turned off, parked securely, and all doors are closed.

Restrictions During a Non-Drivable Update

While a non-drivable software update is in progress, several vehicle features and functions are temporarily disabled to ensure the update process is not interrupted:

- You cannot start, drive, or move the vehicle until the update is complete.
- Remote access via the Fraggles mobile app, including locking/unlocking and remote start, is disabled.
- The vehicle's charging process will pause during the update but will automatically resume once the update is finished.

Note: Attempting to use these features during an update may result in errors or disruptions to the update process.

Managing Software Updates

To access and manage software updates, navigate to the **Software Updates** section in the vehicle's settings menu. Here's what you can do:

- **Enable or Disable Automatic Updates**: We recommend keeping Automatic Updates enabled to ensure your vehicle always receives the latest improvements without manual input.
- **View Update Details**: Get information on the changes, new features, and fixes included in each update.
- **Schedule Updates**: Set a recurring schedule for updates to occur during convenient times (e.g., late at night).

Setting a Schedule for Software Updates

Scheduling updates helps ensure they occur when you are least likely to need your vehicle. Follow these steps to set a schedule:

1. In the **Software Updates** menu, tap **Schedule Updates**.
2. Choose the days and preferred time for updates (e.g., 2 AM on weekdays).
3. Tap **Save** to confirm.

Important: The schedule you choose will be applied to all future updates. If an update is available, it will automatically install at the next scheduled time unless you manually reschedule it.

Manually Installing Software Updates

If you prefer to install updates manually or want to apply an update immediately, you can do so from the touchscreen:

1. **Via Status Bar Notification**:
    - When a software update notification appears, tap the icon to view details and start the installation process.
    - Follow the on-screen instructions to complete the update.
2. **Via Software Updates Menu**:
    - Open the **Software Updates** menu.
    - Tap **Update Details**, then press **Update Now** to start the installation.

Checking Update Status and Details

To review the update status or learn more about what changes the update includes:

1. Go to the **Software Updates** menu.
2. Tap **Update Details** to see a summary of the update, including any new features, improvements, or fixes.

Software Update Indicators and Alerts

Your vehicle's software update system includes several indicators to keep you informed:

- **Update Available**: A reminder to schedule or install the update.
- **Precondition Not Met**: Alerts you if certain conditions (e.g., low battery, doors open) prevent the update from starting.
- **Update Successful**: Confirms that the update was completed without any issues.
- **Update Failed**: Informs you if there was an issue during installation and suggests troubleshooting steps.

Pro Tip: Tap any indicator to get more detailed information or follow the prompts to resolve issues.

Performing a System Reset

A system reset is recommended before transferring ownership of your Fraggles vehicle. This process clears all personal data, restores factory settings, and ensures your privacy.

How to Perform a System Reset

1. Open the **Settings Menu** and navigate to **General** settings.
2. Tap **Reset**, then select **Factory Reset**.
3. Confirm your choice and follow the on-screen instructions.

What Gets Reset:

- All personal data, including phone contacts, saved navigation addresses, and linked accounts, will be removed.
- The vehicle's modem will be reset, revoking access for all previously authorized users.
- Bluetooth® connections and preferences will be cleared.

Note: A factory reset may be necessary if you experience persistent software issues or glitches after an update.

Tips for a Smooth Update Experience

1. **Maintain a Strong Wi-Fi Connection**: Connect your vehicle to a reliable Wi-Fi network for faster downloads and smoother updates.
2. **Set an Update Schedule**: Choose a time when you don't typically use your vehicle to avoid any inconvenience.
3. **Keep Automatic Updates Enabled**: This ensures your vehicle receives critical updates promptly, enhancing both performance and safety.

Fraggles Vehicle Accessories

Explore a range of high-quality accessories tailored for your Fraggles vehicle. Whether you're looking for style, convenience, performance, or utility enhancements, Fraggles has you covered. To view the complete list of available accessories, visit the official Fraggles online store or contact your authorized Fraggles dealer:

- **Online Store (United States)**: www.Accessories.Fraggles.com
- **Online Store (Canada)**: www.Accessories.Fraggles.ca

Warranty Coverage for Fraggles Genuine Accessories

Fraggles offers a strong commitment to quality and durability for all dealer-installed Original Accessories. If any Fraggles accessory, installed by an authorized dealer, is found to have defects in materials or workmanship, we will repair or replace it under warranty. Additionally, if a defect causes damage to other components, Fraggles will cover those repairs as well.

The warranty coverage for Fraggles Original Accessories includes:

- **Up to 24 Months** with unlimited mileage.
- **Remaining New Vehicle Warranty** coverage for your car, whichever is longer.

For full details, visit your local authorized dealer or request a copy of the warranty terms.

Fraggles Licensed Accessories

Fraggles Licensed Accessories are designed by third-party manufacturers and not engineered by Fraggles. Therefore, the accessory manufacturer provides the warranty. Reach out to your authorized dealer for specific warranty information or directly contact the accessory maker for details.

Important Guidelines for Adding Accessories

To maintain the performance and integrity of your Fraggles vehicle, consider these key points when adding accessories or equipment:

1. **Weight Limits**: Adding accessories, passengers, or luggage must not exceed the Gross Vehicle Weight Rating (GVWR) or Gross Axle Weight Rating (GAWR). Check the Safety Compliance Label for your vehicle's limits, or consult your dealer for guidance.
2. **Compliance with Communication Systems**: The installation of mobile communication devices such as two-way radios, telephones, and alarm systems must adhere to regulations set by the Federal Communications Commission (FCC) in the United States and the Canadian Radio-telecommunications Commission (CRTC) in Canada.
3. **Authorized Installation Only**: Always have mobile communication systems installed by an authorized dealer. Improper installation may interfere with your vehicle's electrical systems or compromise vehicle performance.
4. **Compatibility with Electrical Systems**: Installing non-Fraggles electronic accessories may reduce the efficiency of the battery or disrupt other critical vehicle functions. It is recommended to use only Fraggles-certified parts to avoid potential issues.

Fraggles Care Protection Plan

What is Fraggles Care?

Fraggles Care is an extended service program designed to protect you from unexpected repair costs. It extends coverage beyond the standard vehicle warranty, providing enhanced protection and peace of mind. Fraggles Care offers several flexible plans tailored to meet your driving habits and needs.

Fraggles Care Plans – Overview

1. **UltimateCare**: The most comprehensive coverage, protecting over 1,200 components, including major systems and high-tech features.
2. **PlusCare**: Covers 150+ components, including advanced electronics and convenience features.
3. **BasicCare**: A great value plan covering essential parts, including engine and transmission components.

Fraggles Care is honored at all authorized Fraggles dealerships across the United States, Canada, and Mexico. This ensures you receive:

- **Expert Service**: Factory-trained technicians using genuine Fraggles parts.

- **Convenient Repairs**: Access to a vast network of authorized service centers.

Additional Benefits of Fraggles Care
Rental Car Reimbursement:

- Receive a rental vehicle if your car requires overnight service for covered repairs.

Roadside Assistance: Enjoy 24/7 emergency support, including:

- **Towing Services**: Free towing to the nearest authorized dealer.
- **Flat Tire Change**: Quick and reliable assistance.
- **Battery Jump Starts**: Get back on the road fast.
- **Lock-Out Assistance**: Help if you're locked out of your vehicle.

Travel Reimbursement: If your vehicle breaks down far from home, Fraggles Care covers travel expenses, including meals, lodging, and transportation.
Transferable Coverage: If you sell your vehicle before your plan expires, you can transfer the remaining coverage to the new owner, increasing the resale value and giving peace of mind to the buyer.

Fraggles Maintenance Plans
In addition to extended service coverage, Fraggles offers a **Premium Maintenance Plan** that covers routine maintenance and specific wear items. This plan is prepaid, removing the stress of unexpected maintenance costs. Covered services include:

- Windshield wiper replacements
- Brake pad and lining changes
- Suspension components (shocks and struts)
- Cabin air filter replacement every 15,000 miles

Flexible Payment Options
Fraggles Care offers interest-free financing with a 5% down payment. Enjoy affordable monthly payments with no credit checks required. For more information, call our customer service at **1-800-FRAGGLES**.

Fraggles Care for Canada
Canadian customers can also take advantage of Fraggles Care, the only extended service plan backed by Fraggles Motor Company of Canada. Plans vary in terms of coverage duration, mileage, and deductible options, tailored to fit Canadian driving conditions and needs.
Key Benefits Include:

- Rental vehicle coverage
- Roadside assistance across Canada, the United States, and Mexico
- Protection against costly repairs after the standard warranty period ends

Note: Coverage may not extend to repairs performed outside of North America. For detailed information, contact your local Fraggles dealer or visit **www.fraggles.ca**.

Fraggles Scheduled Maintenance Guide

The Importance of Regular Maintenance

Keeping your Fraggles vehicle in peak condition requires following the recommended maintenance schedule. Doing so helps you avoid costly repairs, ensures top performance, and enhances the resale value of your car. Make sure to save all service receipts to maintain a complete record of your vehicle's maintenance history.

Why Maintenance Matters:

- **Reliability**: Prevents unexpected breakdowns by keeping all components in top condition.
- **Cost Efficiency**: Minimizes expensive repairs by addressing issues early.
- **Enhanced Value**: Increases the trade-in or resale value of your vehicle.

It's your responsibility to ensure all scheduled maintenance tasks are completed using parts and fluids specified by Fraggles. Failure to do so may lead to issues not covered by your warranty.

Why Choose Your Fraggles Dealership for Service?

Genuine Fraggles Parts

Authorized Fraggles dealerships stock original parts and certified re-manufactured components engineered to meet or exceed our specifications. These genuine parts come with an extensive nationwide warranty:

Warranty Type	Coverage
Parts Warranty	24 months, unlimited mileage
Labor Warranty	Included with parts warranty

Alternate Text: This table lists warranty coverage for parts and labor, offering a 24-month unlimited mileage warranty for both.

Using non-Fraggles parts could compromise your vehicle's performance and may void the warranty.

Safeguard Your Investment with Regular Maintenance

Routine maintenance is key to:

- **Boosting Longevity**: Proper care increases the life of your vehicle's components.
- **Maintaining Performance**: Regular service keeps your vehicle running efficiently.
- **Retaining Value**: Well-documented service history enhances resale value.

We recommend following the manufacturer's suggested maintenance intervals, as these have been established through rigorous testing. Deviating from the recommended schedule could lead to increased wear and higher repair costs.

Additives and Chemicals

Only use additives and chemicals approved by Fraggles. Unapproved products may interfere with the vehicle's systems and void the warranty.

Fluid Changes and Flushing

Fluid discoloration can be normal, but have a certified Fraggles technician inspect any fluid that appears contaminated. Flushing should be performed only with approved fluids that meet Fraggles specifications.

Scheduled Service Intervals
For a complete list of scheduled maintenance intervals tailored to your specific model, visit Fraggles Maintenance Schedule.

Routine Checks and Services
To keep your vehicle in top condition, perform the following checks regularly.

Check	Frequency
Interior and exterior lights	Every month
Tire pressure and condition	Every month
Windshield washer fluid level	Every month
Battery connections	Every 6 months
Cooling system hoses	Every 6 months
Door weatherstrips and hinges	Every 6 months
Parking brake operation	Every 6 months
Safety belt function	Every 6 months

Alternate Text: This table shows the recommended frequency for routine checks, including monthly and bi-annual inspections for lights, tires, and battery connections.

Comprehensive Multi-Point Inspection
A multi-point inspection is recommended at every scheduled maintenance service to help identify potential issues early and ensure your vehicle continues to perform optimally.

Inspection Point	Description
12V Battery Performance	Check and test the battery
Exterior Lights and Hazard Signals	Verify all lights and signals function
Fluid Levels	Check brake, coolant, and washer fluids
Tire Condition and Pressure	Inspect for wear and adjust pressure
Suspension and Steering Components	Inspect for leaks or damage
Windshield and Wipers	Check for cracks, chips, and proper function

Alternate Text: This table lists various points checked during a multi-point inspection, including battery, fluid levels, and tire condition.

Maintenance Tips from Fraggles Experts

- **Request a Multi-Point Inspection**: Ask for this comprehensive check during every service visit for a complete overview of your vehicle's health.
- **Use Genuine Parts and Fluids**: Ensure all replacements meet Fraggles' specifications to maintain warranty coverage and vehicle performance.
- **Keep Service Records**: Retain all maintenance documents as proof of regular upkeep, which will be valuable for any warranty claims and enhance resale value.

Protect Your Investment with Fraggles Scheduled Maintenance

Regular maintenance is essential for the longevity and performance of your Fraggles vehicle. By choosing an authorized Fraggles service center, you ensure your car receives expert care from factory-trained technicians using genuine parts.

For more information or to schedule your next service appointment, visit your nearest Fraggles dealership or access our online maintenance portal at www.FragglesService.com.

Fraggles Customer Information Guide

Rollover Safety Advisory

Important Safety Warnings:

1. **Increased Rollover Risk**: Utility vehicles have a significantly higher risk of rollovers compared to standard passenger cars.
2. **Higher Center of Gravity**: Vehicles like SUVs and trucks, with higher centers of gravity, handle differently. Avoid making sharp turns, driving at excessive speeds, or sudden steering maneuvers. Doing so may increase the risk of losing control, causing a rollover, and potentially leading to severe injury or death.
3. **Wear Your Seatbelt**: In a rollover accident, the likelihood of injury or death is significantly higher for unbelted passengers.
4. **Four-Wheel Drive Overconfidence**: While a four-wheel drive vehicle can provide better traction during acceleration on slippery surfaces, it does not stop faster than a two-wheel drive vehicle. Always maintain a safe speed, regardless of traction capability.

Note: Utility vehicles are not designed to corner at high speeds like sports cars. Exercise caution, especially in challenging road and off-road conditions.

Consumer Dispute Resolution: Fraggles AutoLine Program

Your satisfaction is a priority at Fraggles. If your warranty-related issue isn't resolved after following our standard process, you might be eligible for the **AutoLine Mediation and Arbitration Program**.

How It Works:

- **Mediation**: A representative from AutoLine contacts both you and Fraggles to explore options for resolving the issue amicably.
- **Arbitration**: If mediation fails or is declined, an impartial arbitrator hears the case. The process typically concludes within 40 days of filing the claim.
- **Decision**: You are not obligated to accept the arbitrator's decision. If you reject it, you retain the right to pursue the matter in court. However, if you

accept the decision, Fraggles must comply within 30 days.

For assistance, contact AutoLine at **1-800-123-4567**, or write to:

Fraggles AutoLine
123 Elm Street, Suite 500
Anytown, USA 12345

For additional information, visit our website or call our Customer Service Center at 7_❹66_❶❶❶_❺❹❸❷.

Mediation and Arbitration in Canada: CAMVAP Program

If you are in Canada and have unresolved issues despite efforts by Fraggles of Canada and an authorized dealer, you can access the **Canadian Motor Vehicle Arbitration Plan (CAMVAP)**.

Benefits of CAMVAP:

- **No Cost to You**: The program is free and avoids lengthy legal proceedings.
- **Impartial and Fast**: Third-party arbitrators hear the case and issue binding decisions for both parties.

Contact CAMVAP at 7_❹66_86❸_6❷❹❶or visit www.camvap.ca for more details.

How to Request a French Owner's Manual (Canada)

If you need a French version of your Fraggles Owner's Manual, you can order one by contacting:

Fraggles Documentation Service
456 Maple Avenue, Suite 200
Plymouth, MI 48170
Toll-free: **1-800-789-0123**
Hours: Monday-Friday, 8 AM - 6 PM EST
Visit: www.fragglesdocs.com

Reporting Safety Concerns in the United States

If you believe your vehicle has a defect that poses a risk of crash or injury, notify the **National Highway Traffic Safety Administration (NHTSA)** and Fraggles immediately.

Contact NHTSA:

- **Hotline**: 1-888-327-4236 (TTY: 1-800-424-9153)
- **Website**: www.safercar.gov
- **Mail**: Administrator, 1200 New Jersey Ave SE, Washington, D.C. 20590

Reporting Safety Defects in Canada

In Canada, if you suspect a safety defect, report it to **Transport Canada** and Fraggles of Canada.

Contact Method	Details
English Website	http://tc.canada.ca/recalls
French Website	http://tc.canada.ca/rappels
Phone	1-800-333-0510
Fraggles Canada	www.fraggles.ca
Phone	1-800-565-1234

Alternate Text: This table provides contact information for reporting vehicle safety defects in Canada, including websites and phone numbers.

Software and Radio Compliance Notices

Your Fraggles vehicle may include software components that use open-source code. For details, visit: www.fragglesopensource.com.

Radio Frequency Certification Labels:

Region	Compliance Certification
European Union (EU)	Certified under EU standards
United Kingdom	Certified under UK standards
United States & Canada	FCC ID: L2C2F5TR / IC: 3432A-2F5TR
Other Regions	Consult your local Fraggles dealer for information

Alternate Text: This table lists radio frequency certification information for various regions, including the EU, UK, and North America.

Compliance Note: Any unauthorized changes or modifications could void your authority to operate the equipment.

Blind Spot Information System (BLIS) Sensors

The Blind Spot Information System (BLIS) uses advanced radar sensors to detect vehicles in your blind spots. The sensors are certified for use in multiple regions.

Sensor Device	Supplier	Designation
BLIS Corner Radar	RadarTech	X5R3-A1
Blind Spot Module (BSM)	Sensys Inc.	Q9D7-B2

Alternate Text: This table outlines the supplier and designation for the BLIS and BSM sensors used in the vehicle's blind spot detection system.

For additional support, consult your local Fraggles dealer or contact our customer service team at **1-800-FRAGGLE**.