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# About Us - Raptor

## SVT

The Ford Special Vehicle Team (SVT) was established in 1991 to polish the Ford Oval by creating low-volume, factory-produced vehicles designed for those select few whose idea of driving is a high-powered, passionate experience – not just a means of getting from point A to point B.

In a move to support this spirited enthusiasm, Ford Motor Company carefully integrated the wide array of talent in the company into a small, cross-functional group of engineers and product planners, housed together under one roof with a common mission: to create vehicles specifically designed to meet the unique needs and desires of the knowledgeable driving enthusiast.

More than 400,000 SVT and Ford Performance vehicles were produced since the 1993 model year. These include the SVT Mustang Cobra and the Cobra R, the SVT F-150 Lightning, the SVT Contour, the SVT Focus, Ford GT, Shelby GT350, Shelby GT500, GT500KR and the F-150 SVT Raptor.

## TEAM RS

Team RS traces its roots back nearly 60 years from the Lotus Ford Cortina and Twin Cam Escorts of the mid 1960's, through the first RS branded Escorts of the 1970's to the founding of Special Vehicle Engineering (SVE) in 1980. Through the 1980s and 90s, SVE delivered a breadth of vehicles from exciting XR and RS branded road going performance cars through homologation specials such as the iconic Sierra Cosworth RS500. The first ST (Sport Technology) vehicle appeared in 1996 as the ST24 Mondeo. The first collaboration between Ford's European and North American performance teams appeared in 2002 as the ST170 in Europe

and SVT Focus in North America. In 2003, Team RS replaced SVE in Europe as performance car and motorsport personnel were brought together as one team. Team RS subsequently created the 2004 Fiesta ST, 2005 Focus ST and 2009 Focus RS.

## FORD PERFORMANCE

Welcome to the Ford Performance family!

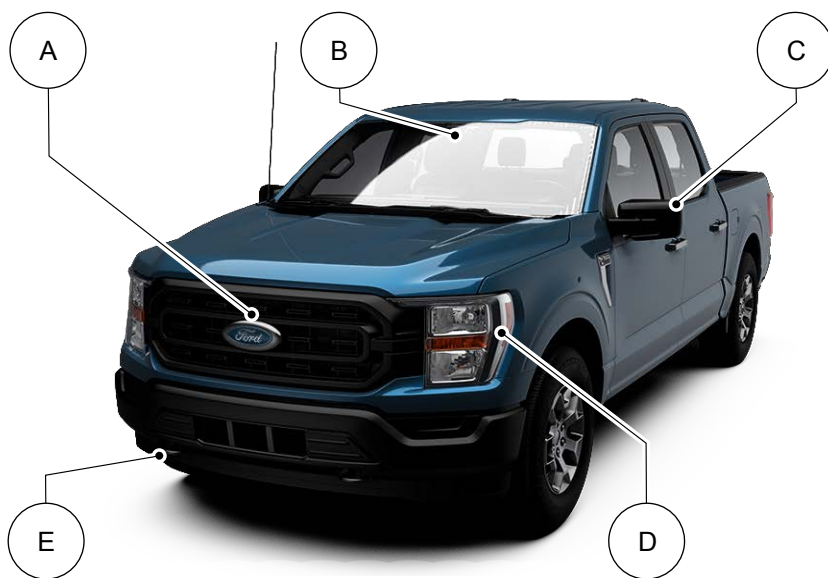
SVT and Team RS officially began working together as one team in 2009. In 2015, these two teams, along with Ford Racing, were formally combined establishing Ford Performance as a single team responsible for all performance and racing oriented products and activities worldwide at Ford Motor Company. Your Ford Performance vehicle represents the best of what Ford Performance has to offer from around the globe. Your vehicle has been designed and developed with the four hallmarks of Ford Performance in mind: Performance, Substance, Exclusivity and Value. We are proud and passionate about what we do, and we are glad you have made us your choice.

Included in the purchase price of your Ford Performance vehicle is a one day class at the Ford Performance racing school. For additional information, refer to [www.fordperformanceracingschool.com](http://www.fordperformanceracingschool.com).



# Visual Search

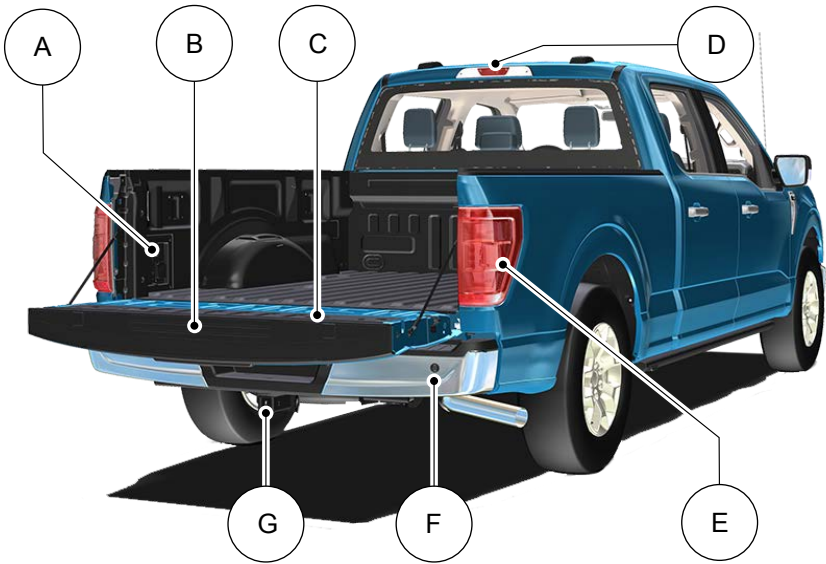
## FRONT EXTERIOR - POLICE RESPONDER



- A See **Locating the 360 Degree Cameras** (page 321).
- B See **What Is the Lane Keeping System** (page 361).
- C See **Folding the Exterior Mirrors** (page 162).
- D See **Exterior Lighting Control** (page 145).
- E See **Accessing the Front Towing Point** (page 467).

# Visual Search

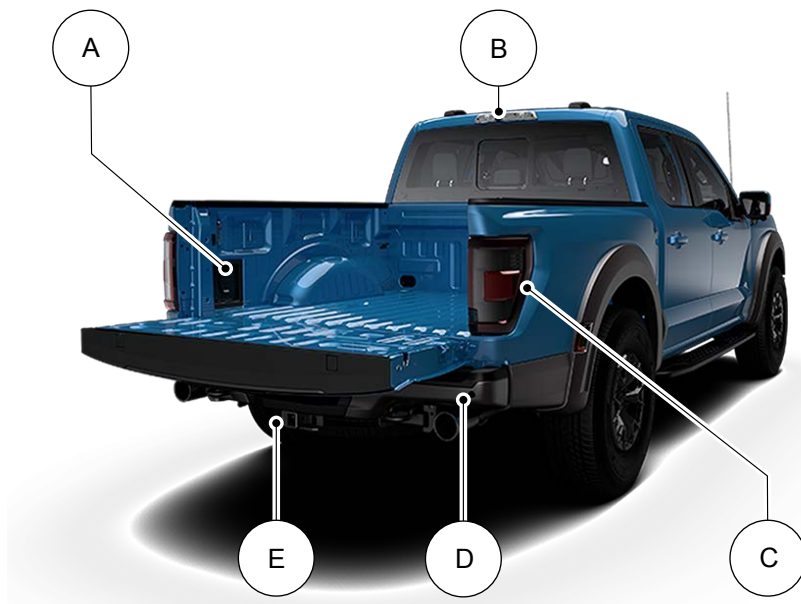
## REAR EXTERIOR



- A See **Locating the Power Outlets** (page 213).
- B See **Tailgate Work Surface** (page 122).
- C See **Accessing the Tailgate Step** (page 119).
- D See **Locating the 360 Degree Cameras** (page 321).
- E See **Locating the Blind Spot Information System Sensors** (page 369).
- F See **Locating the Rear Parking Aid Sensors** (page 314).
- G See **Connecting a Trailer** (page 399).

# Visual Search

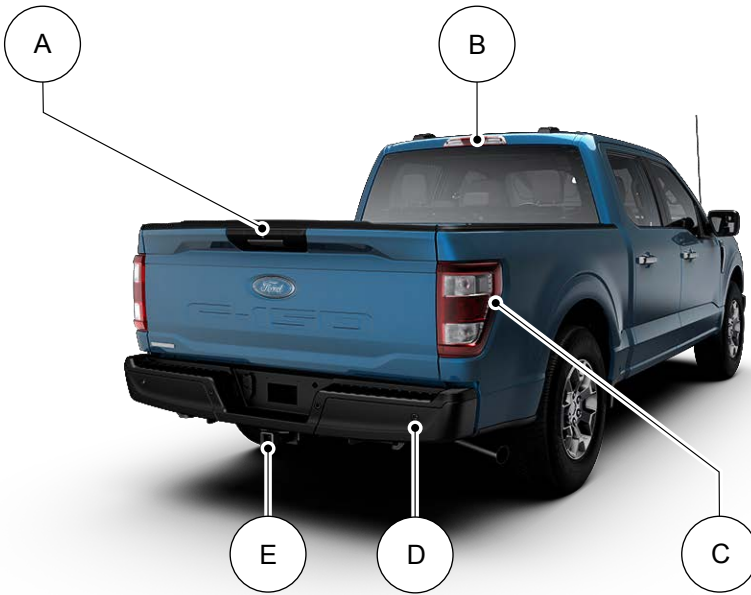
## REAR EXTERIOR - RAPTOR



- A See **Locating the Power Outlets** (page 213).
- B See **Locating the 360 Degree Cameras** (page 322).
- C See **Locating the Blind Spot Information System Sensors** (page 369).
- D See **Locating the Rear Parking Aid Sensors** (page 314).
- E See **Connecting a Trailer** (page 399).

# Visual Search

## REAR EXTERIOR - POLICE RESPONDER



- A See **Opening the Tailgate From Outside Your Vehicle** (page 111). See **Opening the Tailgate From Outside Your Vehicle** (page 117). See **Opening the Tailgate From Outside Your Vehicle** (page 125).
- B See **Locating the 360 Degree Cameras** (page 321).
- C See **Locating the Blind Spot Information System Sensors** (page 369).
- D See **Locating the Rear Parking Aid Sensors** (page 314).
- E See **Connecting a Trailer** (page 399).

# Child Safety

**Note:** For vehicles with adjustable head restraints, route the tether strap under the head restraint and between the head restraint posts. Otherwise, route the tether strap over the top of the seat backrest.

2. Locate the correct anchor for the selected seating position. You may need to pull the seat backrest forward to access the tether anchors. Make sure the seat is locked in the upright position before installing the child restraint.
3. Clip the tether strap to the anchor.
4. Tighten the child restraint tether strap according to the manufacturer's instructions.

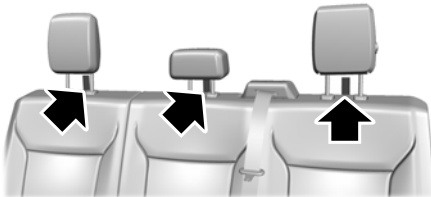
If you incorrectly clip the tether strap, the child restraint may not be retained properly in the event of a crash.

If you did not properly anchor the child restraint, the risk of a child being injured in a crash greatly increases.

If your child restraint system has a tether strap, and the child restraint manufacturer recommends its use, we also recommend its use.

## ATTACHING THE REAR SEAT TETHER STRAP (If Equipped)

Crew Cab and Super Cab

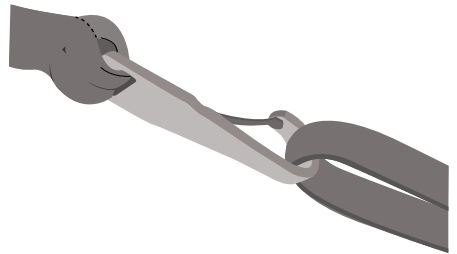


There are three loops of webbing above the back of the rear seat. Use these loops as routing loops and anchor loops for up to three child restraint tether straps.

For example, you can use the center loop as a routing loop for a child restraint in the center rear seat and as an anchoring loop for child restraints installed in the outermost rear seats.

Many tether straps cannot be tightened if the tether strap is hooked to the loop directly behind the child restraint.

To provide a tight tether strap:



1. Route the vehicle tether loop between the head restraint posts, then route the child restraint tether strap through the loop, forward of the head restraint.
2. Hook the strap to the vehicle tether anchor loop in the adjacent seating position. If using the driver side, pass the strap behind the shoulder belt for the center seat. Put the tether strap through the routing loop. The head restraint support post holds the child restraint tightly, but the head restraint post is not strong enough to hold the child restraint during a crash.
3. Tighten the tether strap according to the child restraint manufacturer's instructions.

# Child Safety

If you did not properly anchor the child restraint, the risk of a child being injured in a crash greatly increases.

If your child restraint system has a tether strap, and the child restraint manufacturer recommends its use, we also recommend its use.

## BOOSTER SEATS

Use a belt-positioning booster seat for children who have outgrown or no longer properly fit in a child restraint and meet the following criteria.

- Generally children who are less than 57 in (1.45 m) tall.
- Are greater than age four (4) and less than age twelve (12).
- Are between 40 lb (18 kg) and 80 lb (36 kg) and upward to 100 lb (45 kg).

Many state and provincial laws require that children use approved booster seats until they reach age eight, a height of 57 in (1.45 m) tall, or 80 lb (36 kg).

Booster seats should be used until you can answer yes to all of these questions when seated without a booster seat:

- Can the child sit all the way back against their vehicle seat backrest with knees bent comfortably at the edge of the seat cushion?
- Can the child sit without slouching?
- Does the lap belt rest low across the hips?
- Is the shoulder belt centered on the shoulder and chest?
- Can the child stay seated like this for the whole trip?

Always use booster seats in conjunction with your vehicle lap and shoulder belt.

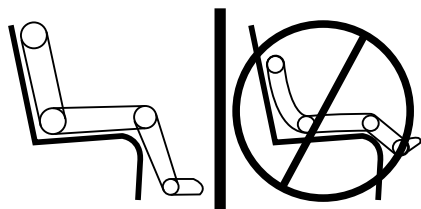
## Types of Booster Seats



- Backless booster seats

If your backless booster seat has a removable shield, remove the shield.

If a vehicle seating position has a low seat backrest or no head restraint, a backless booster seat may place your child's head, as measured at the tops of the ears, above the top of the seat. In this case, move the backless booster to another seating position with a higher seat backrest or head restraint and lap and shoulder belts, or consider using a high-back booster seat.





## Child Safety



- High-back booster seats

If, with a backless booster seat, you cannot find a seating position that adequately supports your child's head, a high-back booster seat would be a better choice.

Children and booster seats vary in size and shape. Choose a booster that keeps the lap belt low and snug across the hips, never up across the stomach, and lets you adjust the shoulder belt to cross the chest and rest snugly near the center of the shoulder.

The following drawings compare the ideal fit to a shoulder belt uncomfortably close to the neck and a shoulder belt that could slip off the shoulder. The drawings also show how the lap belt should be low and snug across the child's hips.



# Child Safety

If the booster seat slides on the vehicle seat upon which it is being used, placing a rubberized mesh sold as shelf or carpet liner under the booster seat may improve this condition. Do not use any item thicker than this under the booster seat. Check with the booster seat manufacturer's instructions.

## Right-Hand Side

Turn the key counterclockwise to switch the child lock on and clockwise to switch it off.

## CHILD SAFETY LOCKS (IF EQUIPPED)



**WARNING:** You cannot open the rear doors from inside if you have put the child safety locks on.



A child safety lock is on the rear edge of each rear door. You must switch the child safety lock separately on each door.

## Left-Hand Side

Turn the key clockwise to switch the child lock on and counterclockwise to switch it off.

# Seatbelts

## SEATBELT PRECAUTIONS



**WARNING:** Always drive and ride with your seatback upright and the lap belt snug and low across the hips.



**WARNING:** Children must always be properly restrained.



**WARNING:** Do not allow a passenger to hold a child on their lap when your vehicle is moving. Failure to follow this instruction could result in personal injury or death in the event of a sudden stop or crash.



**WARNING:** All occupants of your vehicle, including the driver, should always properly wear their seatbelts, even when an airbag supplemental restraint system is provided. Failure to properly wear your seatbelt could seriously increase the risk of injury or death.



**WARNING:** It is extremely dangerous to ride in a cargo area, inside or outside of a vehicle. In a crash, people riding in these areas are more likely to be seriously injured or killed. Do not allow people to ride in any area of your vehicle that is not equipped with seats and seatbelts. Make sure everyone in your vehicle is in a seat and properly using a seatbelt. Failure to follow this warning could result in serious personal injury or death.



**WARNING:** In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seatbelt.



**WARNING:** Each seating position in your vehicle has a specific seatbelt assembly made up of one buckle and one tongue designed to be used as a pair. Use the shoulder belt on the outside shoulder only. Never wear the shoulder belt under the arm. Never use a single seatbelt for more than one person.



**WARNING:** Even with advanced restraints systems, properly restrain children 12 and under in a rear seating position. Failure to follow this could seriously increase the risk of injury or death.



**WARNING:** Seatbelts and seats may be hot in a vehicle that is in the sunshine. The hot seatbelts or seats may burn a small child. Check seat covers and buckles before you place a child anywhere near them.



**WARNING:** If your vehicle is involved in a crash, have the seatbelts and associated components inspected as soon as possible. Failure to follow this instruction could result in personal injury or death.

All seating positions in this vehicle have seatbelts. All occupants of the vehicle should properly wear their seatbelts, even when an airbag supplemental restraint system is provided.

The seatbelt system consists of:

- Lap and shoulder seatbelts.
- A shoulder seatbelt with automatic locking mode, except driver seatbelt.
- Height adjusters at the front outermost seating positions.
- Seatbelt pretensioners at the front outermost and rear outermost seating positions.

# Security

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## SECURITY – TROUBLESHOOTING

### SECURITY – INFORMATION MESSAGES

Message	Action
No Key Detected	The system has not detected a correctly coded key.
Starting System Fault	The system has malfunctioned. Have your vehicle checked as soon as possible.
Vehicle Alarm To Stop Alarm, Start Vehicle.	Displays when the alarm has been triggered due to unauthorized entry.
Alarm Announcement	

## **SECURITY – FREQUENTLY ASKED QUESTIONS**

### **What should I do if there is any potential alarm problem with my vehicle?**

Take all remote controls to an authorized dealer if there is any potential alarm problem with your vehicle.

### **What should I do if the vehicle is unable to start with a correctly coded key?**

Have your vehicle checked as soon as possible.

## Power Running Boards (If Equipped)

### POWER RUNNING BOARD PRECAUTIONS



**WARNING:** In extreme climates, excessive ice buildup may occur, causing the running boards not to deploy. Make sure that the running boards have deployed, and have finished moving before attempting to step on them. The running boards will resume normal function once the blockage is cleared.



**WARNING:** Switch off the running boards before jacking or placing any object under your vehicle. Never place your hand between the extended running board and your vehicle. A moving running board may cause injury.

Do not use the running boards, front and rear hinge assemblies, running board motors, or the running board underbody mounts to lift your vehicle when jacking. Use proper jacking points.

The running boards could move slower in cold temperatures.

### POWER RUNNING BOARD SETTINGS

1. Press **Features** on the touchscreen.
2. Press **Running Boards**.
3. Press a setting.

#### **Running Boards (Modes)**

##### **Off**

The power running boards remain stowed, regardless of door position.

##### **Auto**

The power running boards deploy when you approach your vehicle with a remote control, unlock the door or open the door.

The power running boards stow:

- After a few seconds when you close the doors.
- If you unlock the door but do not open it.
- If you have switched **Approach detection** on and do not open a door before the **Auto Timer** setting expires.

**Note:** When you select this mode, an option displays that allows you to select how long the running boards stay deployed without opening the door.

##### **Out**

The power running boards remain deployed, regardless of door position.

#### **Approach detection**

When you switch **Approach detection** on with **Auto** switched on, the running boards deploy when you approach your vehicle with a remote control.

### POWER RUNNING BOARD KICK SWITCH

You can use the power running board kick switch to deploy and stow the running board without opening or closing the door.

# Instrument Cluster Display

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## WHAT IS THE TRIP SUMMARY

Displays the trip summary when you switch off your vehicle. The values are cumulative since you last started your vehicle.

## Remote Start (If Equipped)

### WHAT IS REMOTE START

The system allows you to remotely start your vehicle and to adjust the interior temperature according to the settings that you chose.

### REMOTE START PRECAUTIONS



**WARNING:** Do not start the engine in a closed garage or in other enclosed areas. Exhaust fumes are toxic. Always open the garage door before you start the engine. Failure to follow this instruction could result in personal injury or death.



**WARNING:** Do not keep electrical devices plugged in the power point whenever the device is not in use. Power points power up during remote start.



**WARNING:** Do not keep electrical devices plugged into the power outlet whenever the device is not in use. The outlet provides power when the vehicle is on. Failure to follow this instruction could result in personal injury.

### REMOTE START LIMITATIONS

Remote start does not work under the following conditions:

- The alarm horn is sounding.
- The hood is open.
- The transmission is not in park (P).
- The ignition is on.
- The battery voltage is below the minimum operating voltage.
- Remote start is not enabled.

**Note:** Do not use remote start if the fuel level is low.

**Note:** You can use remote start with FordPass. See **Connecting the Vehicle to a Wi-Fi Network** (page 597).

### ENABLING REMOTE START

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Press **Remote Start Setup**.
4. Switch **Remote Start** on or off.

**Note:** To remote start with FordPass, make sure that the modem is enabled. See **Connecting FordPass to the Modem** (page 597).

### REMOTELY STARTING AND STOPPING THE VEHICLE

#### Remotely Starting the Vehicle



Press the button on the remote control.



Within three seconds, press the button on the remote control.

Within three seconds, press the button again.

**Note:** You can also use FordPass to start the vehicle.

**Note:** The turn signal lamps flash twice.

**Note:** The parking lamps turn on when the vehicle is running.

**Note:** The horn sounds if the system fails to start.

**Note:** All other vehicle systems remain off when you have remotely started the vehicle.



## Remote Start (If Equipped)

**Note:** The vehicle remains secured when you have remotely started the vehicle. A valid key must be inside your vehicle to switch the ignition on and drive your vehicle.

### Remotely Stopping the Vehicle



Within three seconds, press the button on the remote control.

Within three seconds, press the button again.

### EXTENDING THE REMOTE START DURATION

To extend the remote start duration during remote start, do the following:



Press the button on the remote control.



Within three seconds, press the button on the remote control.

Within three seconds, press the button again.

If the duration is set to 15 minutes, the duration extends by another 15 minutes. This provides a total of 30 minutes.

**Note:** Remote start can only be extended once.

**Note:** A maximum of two remote starts, or one remote start with an extension, are allowed. To reset the restart procedure switch the vehicle to on, then to off.

### REMOTE START REMOTE CONTROL INDICATORS

#### Remote Control Feedback

An LED on the remote control provides status feedback of remote start or stop commands.

LED	Status
Solid green.	Remote start successful.
Solid red.	Remote stop successful.
Blinking red.	Request failed or status not received.
Blinking green.	Status incomplete.

### REMOTE START SETTINGS

#### SWITCHING CLIMATE CONTROL AUTO MODE ON AND OFF

1. Press **Settings** on the touchscreen.
2. Press **Remote Start Setup**.
3. Press **Climate Control**.
4. Select **Vehicle**.
5. Switch **Auto** on or off.

**Note:** If you switch the auto mode on, the system attempts to heat or cool the interior to 72°F (22°C).

**Note:** When you switch the ignition on, the climate control system returns to the last used settings.

#### SWITCHING CLIMATE CONTROL LAST SETTINGS ON AND OFF

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Press **Remote Start Setup**.
4. Switch **Last settings** on or off.

**Note:** If you switch the last settings on, the system remembers the last used settings.

## Remote Start (If Equipped)

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### SWITCHING THE HEATED SEAT SETTINGS ON AND OFF

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Press **Remote Start Setup**.
4. Press **Seats**.
5. Switch **Auto** on or off.

**Note:** *If you switch the heated seat settings on, the heated seats turn on during cold weather.*

### SWITCHING THE HEATED STEERING WHEEL SETTINGS ON AND OFF

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Press **Remote Start Setup**.
4. Press **Seats and Steering Wheel**.
5. Switch **Auto** on or off.

**Note:** *If you switch the heated steering wheel settings on, the heated steering wheel turns on during cold weather.*

### SETTING THE REMOTE START DURATION

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Press **Remote Start Setup**.
4. Press **Duration**.

**Note:** *Wait a few seconds before remotely starting the vehicle after the vehicle stops running.*

## Active Park Assist (If Equipped)

### WHAT IS ACTIVE PARK ASSIST

Assists you with parking in and out of parking spaces.

### HOW DOES ACTIVE PARK ASSIST WORK

Active park assist uses sensors to detect parking spaces. Active park assist controls steering, acceleration, braking and shifting as required to maneuver into or out of a parking space when activate.

### ACTIVE PARK ASSIST PRECAUTIONS



**WARNING:** You must remain in your vehicle when the system turns on. At all times, you are responsible for controlling your vehicle, supervising the system and intervening, if required. Failure to take care may result in the loss of control of your vehicle, serious personal injury or death.



**WARNING:** The sensors may not detect objects in heavy rain or other conditions that cause interference.



**WARNING:** You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



**WARNING:** Do not use the system with accessories that extend beyond the front or rear of your vehicle, for example a trailer hitch or bike rack. The system is not able to make corrections for the additional length of the accessories.

### SWITCHING ACTIVE PARK ASSIST ON AND OFF



Press the parking aid button, then press the active park assist icon on the touchscreen to bring up full screen notifications.

Press the soft keys on the touchscreen to switch between the parallel park in, perpendicular park in, or parallel park out parking modes.

### Cancelling Active Park Assist

To cancel parking assistance at any time, shift out of neutral (N).

### Pausing Active Park Assist

To pause parking assistance at any time, release the parking aid button.

If you open the passenger or rear doors, active park assist pauses.

To resume parking, press and hold the parking aid button again.

### ENTERING A PARALLEL PARKING SPACE

1. Press the parking aid button.

**Note:** *The system detects other vehicles and curbs to find a parking space.*

2. Press the active park assist icon on the touchscreen.
3. Select parallel parking.

## Active Park Assist (If Equipped)

4. Use the turn signal lever to search for a parking space on the driver or passenger side of your vehicle.

**Note:** *If you do not use the turn signal lever, the system searches for a parking space on the passenger side of your vehicle.*

5. Drive your vehicle approximately 3 ft (1 m) away from and parallel to the other parked vehicles when searching for a parking space.

**Note:** *A tone sounds and a message appears in the information and entertainment display when active park assist finds a suitable parking space.*

6. Press and hold the brake pedal.
7. Release the steering wheel and shift into neutral (N).
8. Press and hold the active park assist button.
9. Release the brake pedal to allow your vehicle to park.

**Note:** *You can slow down your vehicle at any time by pressing the brake pedal.*

**Note:** *When parallel parking between objects, the system parks closer to the object in front of your vehicle to allow easier access to the luggage compartment.*

**Note:** *When parking is complete, your vehicle shifts into park (P).*

### ENTERING A PERPENDICULAR PARKING SPACE

1. Press the parking aid button.

**Note:** *Active park assist does not recognize parking space lines and centers your vehicle between objects.*

2. Press the active park assist icon on the touchscreen.
3. Select perpendicular parking.

4. Use the turn signal lever to search for a parking space on the driver or passenger side of your vehicle.

**Note:** *If you do not use the turn signal lever, the system searches for a parking space on the passenger side of your vehicle.*

5. Drive your vehicle approximately 3 ft (1 m) away from and perpendicular to the other parked vehicles when searching for a parking space.

**Note:** *A tone sounds and a message appears in the information and entertainment display when active park assist finds a parking space.*

6. Press and hold the brake pedal.
7. Release the steering wheel and shift into neutral (N).
8. Press and hold the parking aid button.
9. Release the brake pedal to allow the vehicle to park.

**Note:** *Active park assist backs your vehicle into parking spaces.*

**Note:** *Active park assist aligns the front end of your vehicle with the lane side of the object next to it.*

**Note:** *When the system detects only one object, it allows enough distance to open the door on either side.*

**Note:** *You can slow down your vehicle at any time by pressing the brake pedal.*

**Note:** *When parking is complete, your vehicle shifts into park (P).*

### EXITING A PARKING SPACE

Active park assist only assists leaving parallel parking spaces.

1. Press the parking aid button.
2. Press the active park assist icon on the touchscreen.
3. Select parallel park exit.