

# FORD **FOCUS ELECTRIC** Owner's Manual



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# Table of Contents

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## Introduction

|                            |   |
|----------------------------|---|
| About This Supplement..... | 3 |
|----------------------------|---|

## Child Safety

|                             |   |
|-----------------------------|---|
| Installing Child Seats..... | 4 |
|-----------------------------|---|

## Instrument Cluster

|                                   |   |
|-----------------------------------|---|
| Gauges.....                       | 5 |
| Warning Lamps and Indicators..... | 6 |

## Information Displays

|                           |    |
|---------------------------|----|
| General Information.....  | 8  |
| Information Messages..... | 13 |

## Climate Control

|                                |    |
|--------------------------------|----|
| Automatic Climate Control..... | 16 |
|--------------------------------|----|

## Starting and Stopping the Electric Motor

|                                       |    |
|---------------------------------------|----|
| Starting the Electric Motor.....      | 19 |
| Switching Off the Electric Motor..... | 20 |

## High Voltage Battery

|                                          |    |
|------------------------------------------|----|
| General Information.....                 | 21 |
| Charging the High Voltage Battery.....   | 21 |
| High Voltage Battery Cut-Off Switch..... | 25 |
| Energy Consumption Figures.....          | 26 |

## Transmission

|                             |    |
|-----------------------------|----|
| Automatic Transmission..... | 27 |
|-----------------------------|----|

## Towing

|                       |    |
|-----------------------|----|
| Towing a Trailer..... | 30 |
|-----------------------|----|

## Roadside Emergencies

|                                |    |
|--------------------------------|----|
| Jump-Starting the Vehicle..... | 31 |
|--------------------------------|----|

## Fuses

|                               |    |
|-------------------------------|----|
| Fuse Specification Chart..... | 33 |
|-------------------------------|----|

## Maintenance

|                               |    |
|-------------------------------|----|
| General Information.....      | 43 |
| Under Hood Overview.....      | 44 |
| Coolant Check.....            | 44 |
| Technical Specifications..... | 46 |

## Wheels and Tires

|                               |    |
|-------------------------------|----|
| Changing a Road Wheel.....    | 47 |
| Technical Specifications..... | 47 |



# Introduction

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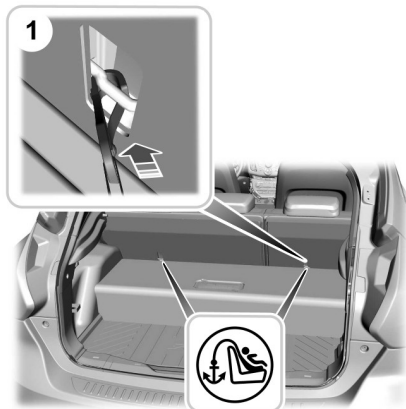
## **ABOUT THIS SUPPLEMENT**

This supplement complements your Owner's Manual. You must read the full instructions in the Owner's Manual along with all the warnings.

# Child Safety

## INSTALLING CHILD SEATS

### Top Tether Anchor Points



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1. Rotate the tether hook, and then move the hook under the anchor point.

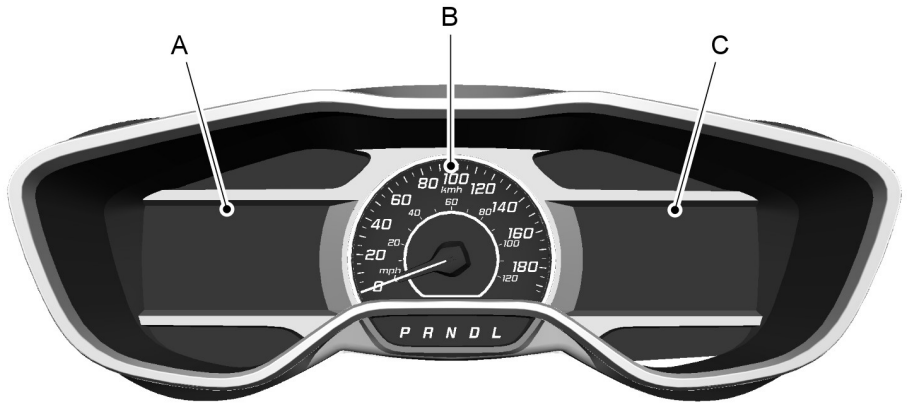


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2. Clip the tether strap to the anchor as shown.

# Instrument Cluster

## GAUGES



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- A Message center
- B Speedometer
- C Information and entertainment display

### Battery Gauge

The high voltage battery gauge appears on the right-hand side of the message center. This provides battery charge level, range estimate and regenerative braking information.

### Charge Level

The charge level for the high voltage battery is shown as a colored bar. This is normally blue, except when the battery charge is low and the color changes to amber. When the battery has run out of charge the color changes to red. See **Information Messages** (page 13).

### Distance to Empty

The range estimate in the battery gauge will change depending upon which driver key is used. This is an estimated distance you can travel on the current charge level. Your driving behavior will influence the range estimate. This includes your use of accessories such as climate control. Your range estimate may change immediately when you change your climate control settings.

# Instrument Cluster

---

## Regenerative Braking Display

A circular arrow symbol appears in the center of the battery gauge during energy recapture through the regenerative braking system.

## Brake Coach Display

This appears when your vehicle has come to a stop. It helps you to brake in a way that maximizes the amount of energy returned through the regenerative braking system. The percentage displayed indicates the efficiency of your braking. The best score achievable is 100%. You can switch off this feature in the settings menu.

## Trip Summary and Lifetime Summary

This information is displayed when you switch the ignition off. Trip summary is displayed first, followed by the lifetime summary. You can change between these displays using the up and down arrow buttons on the steering wheel controls.

Trip summary information is data for the last journey or drive. Lifetime summary information is accumulated data from the last reset carried out using the settings menu in the message center.

### Trip Summary - Distance

The total distance traveled and the regenerative braking distance are displayed. Regenerative braking distance is the estimated range gained from energy recaptured through regenerative braking.

### Trip Summary - Energy Use

The total kilowatt hours and average watt hours per mile or kilometer are displayed. The average watt hours per mile or kilometer will be shown in blue if less than (better than) the lifetime average watt hours per mile or kilometer.

### Trip Summary - Brake Score

The percentage of braking energy recaptured and returned to the high voltage battery through regenerative braking. The brake score will be shown in blue if greater than (better than) the lifetime brake score.

### Lifetime Summary - Distance

The total regenerative braking distance, which is the estimated range gained from energy recaptured through regenerative braking.

### Lifetime Summary - Energy Use

The average watt hours used per mile or kilometer traveled.

### Lifetime Summary - Brake Score

The average percentage of braking energy recaptured and returned to the high voltage battery through regenerative braking.

## WARNING LAMPS AND INDICATORS

The following warning lamps and indicators will alert you to a vehicle condition that may become serious. Some lamps will illuminate when you start your vehicle to make sure they work. If any lamps remain on after starting your vehicle, refer to the respective system warning lamp for further information.

**Note:** *Some warning indicators appear in the information display and function the same as a warning lamp but do not display when you start your vehicle.*

# Instrument Cluster

## Charging System



It will illuminate when the 12 volt battery is not charging correctly. This indicates a problem with the electrical system or a related component. See an authorized dealer as soon as possible.

## High Voltage Battery Low or Depleted



Illuminates amber in color when the high voltage battery level is low. A message may also be displayed suggesting you reduce your usage of the climate control.

Illuminates red in color when the battery level is depleted. Your vehicle must be charged before it will operate. If you are driving when this occurs and cannot make it to a charge point, stop your vehicle in a safe place and have it towed to a charge point.

## Limited Performance Indicator



Illuminates amber in color to indicate limited vehicle performance due to a cold or hot battery. A message will be shown in the instrument cluster.

Illuminates red in color to indicate severely limited vehicle performance due to a cold or hot battery. A message will be shown in the instrument cluster. Drive with caution. Keep your vehicle plugged in when not in use to maintain battery temperature.

## Motor Coolant Overheat Warning Lamp



Illuminates when the motor cooling system is overheating. Stop your vehicle in a safe place and see an authorized dealer as soon as possible.

## Powertrain Malfunction or Reduced Power Warning Lamp



Illuminates when there is a powertrain or high voltage charge system malfunction. If it remains on or continues to flash, see an authorized dealer as soon as possible.

## Ready to Drive Indicator



Illuminates when your vehicle is ready to drive. A message may display confirming your vehicle is ready to drive. Alternatively a message regarding budget may display.

## Stop Safely Warning Lamp



Indicates an electrical component fault or failure that will cause your vehicle to shut down or enter a limited performance mode. A message may also be shown in the instrument cluster.

## Vehicle Plugged In



Illuminates when your vehicle is plugged in. A message may also be shown in the instrument cluster after attempting to start your vehicle.

# Information Displays

## GENERAL INFORMATION

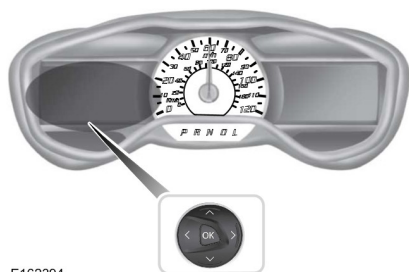
### WARNING



Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any handheld device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

Various systems on your vehicle can be controlled using the information display controls on the steering wheel. Corresponding information is displayed in the information display.

## Message Center



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- Press the up or down arrow buttons on the steering wheel to scroll through and highlight the options within a menu.
- Press the right arrow button to enter a sub-menu.

- Press the left arrow button to exit a menu.
- Press the **OK** button to choose and confirm settings or messages.

The arrows in the upper left corner of the display indicate additional content available when illuminated.

## Main Menu

You can choose the following categories.



Display Mode



Trip One and Two



Energy



Information



Settings

Scroll up or down to highlight one of the categories, then press the right arrow button or **OK** to enter into that category. Press the left arrow button repeatedly to return to the main menu.

## Display Mode



Use the arrow buttons to choose between the following display options.

# Information Displays

| Display Mode     |         |               |
|------------------|---------|---------------|
| Budget Text View | Options | Budget Text   |
|                  |         | Help          |
| Budget View      | Options | Gauge Scale   |
|                  |         | Budget Text   |
|                  |         | Help          |
| Range View       | Options | Budget Text   |
|                  |         | Help          |
| MyView           | Options | Gauge Scale   |
|                  |         | Budget Text   |
|                  |         | Change MyView |
|                  |         | Help          |

## **Budget Text View**

Contains basic information to help you to achieve your vehicle range estimate.

Budget: is set to the range estimate at the point of departure. This will count down with the odometer.

Status: is your performance against your budget (current range estimate shown on battery gauge minus budget distance). A positive status indicates you are using less energy than typical and have extended your range estimate by the distance shown.

## **Budget View**

Helps you manage your energy use.

Your current energy use is the white line that moves up and down in the budget gauge. A higher line means you are using more energy (lower is better). Your energy use includes input from the accelerator pedal as well as the accessories, for example climate control.

The budget is shown by the blue cup shape around the budget gauge. As long as your current energy use is within the cup, you are staying within your budget. Your budget represents the maximum energy usage you can maintain in order to achieve your vehicle range estimate.

## **Range View**

The gauge will show your estimated distance to empty along with your current performance to budget.

Current performance to your budget is represented by the glow of the car icon: more blue indicates better performance, and more amber indicates worse performance.

# Information Displays

## MyView

You can choose what to display in this view. Selecting Change MyView in the options menu allows you to use the right or left arrows to scroll through two columns of content choices. Once you have your desired content showing in each column, press **OK** to save. The content you select is saved to the current driver key as MyView.

Accessory power indicates electrical power demands from your vehicle's accessory systems. The gauge separately displays power demand in kilowatts (kW) for climate and other accessories.

With budget plus average selected, the white pointers on the outside of the budget gauge indicate the average watt hours per mi (km) since you last charged your vehicle. Immediately after charging the white pointers will start out at the top of the gauge, as you begin driving they will reflect your average energy use.

**Note:** Trip data cannot be reset in MyView. You must reset trip data from the main trip one and two screens.

## Trip One and Two



Use the arrow buttons to choose between the following.

| Trip One and Two                                  | Standard | Enhanced | Budget Text |
|---------------------------------------------------|----------|----------|-------------|
| Trip distance                                     | X        | X        | X           |
| Elapsed trip time                                 | X        | X        | X           |
| XXX Wh/mi (km) - energy used per unit of distance |          | X        |             |
| XX.X kWh - energy used                            |          | X        |             |
| Budget text                                       |          |          | X           |
| Total odometer                                    | X        | X        | X           |

Press and hold **OK** to reset the currently displayed trip information.

### Trip Distance

Shows the accumulated trip distance.

### Elapsed Trip Time

The timer stops when your vehicle is switched off and restarts when your vehicle is switched on.

### Wh/mi (km)

Shows the average energy used per unit of distance for a given trip.

### kWh

Shows the total energy used for a given trip.

### Budget Text

Shows your budget and status.

### Total Odometer

Shows the total distance the vehicle has traveled.

# Information Displays

## Energy



Use the arrow buttons to choose between the following display options.

| Energy         |         |                |
|----------------|---------|----------------|
| Energy History | Options | Time intervals |
|                |         | Help           |
| Energy Coach   | Options | Help           |

### Energy History

This view from left to right starts with the budget view gauge and adds historical energy use and budget data. The data is represented as an average for time intervals of either one, two or six minutes, with the leftmost interval being the most recent. Total time for the five intervals is shown at the bottom of the view. Interval time can be selected in the options menu. Intervals shown in grey color are from the previous trip.

### Energy Coach

This view provides a comparison of your recent acceleration, braking and cruising behavior to what is recommended for most efficient use of energy under present conditions. The horizontal bars fill from left to right with best efficiency (and blue color) shown as at least half full. When the bars are less than half full, the color is amber, suggesting that a change in driving style is needed to achieve better energy efficiency.

## Information



In this mode, you can view different vehicle system information and run a system

check.

| Information |               |
|-------------|---------------|
| Warnings    |               |
| Tutorial    | Find Your Way |
|             | Brake Coach   |
|             | Display Mode  |
|             | Trip 1 & 2    |
|             | Energy        |

# Information Displays

| Information  |        |
|--------------|--------|
|              | Status |
| Driver Alert |        |
| System Check |        |

## Warnings

Displays the number of warnings that need immediate attention in red. You can only view the warnings from the system check menu. View them immediately by pressing **OK** and then **OK** again to enter system check. Use the up or down arrows to scroll through the warnings.

## System Check

All active warnings will display first if applicable. The system check menu may appear different based upon equipment options and current vehicle status. Use the up or down arrow buttons to scroll through the list.

## Settings



In this mode, you can configure different driver setting options.

| Settings      |                   |                 |
|---------------|-------------------|-----------------|
| Driver Assist | Traction Control  |                 |
|               | Rear Park Aid     |                 |
| Vehicle       | Lighting          | Home Light      |
|               |                   | Auto Light Rain |
|               | Remote Start      | Climate Control |
|               |                   | Duration        |
|               |                   | Quiet Start     |
|               |                   | System          |
|               | Tire Mobility Kit | Expiration      |
| MyKey         | Create MyKey      |                 |
|               | Traction Control  |                 |
|               | Max Speed         |                 |
|               | Speed Minder      |                 |
|               | Volume Limiter    |                 |

# Information Displays

| Settings |                     |             |
|----------|---------------------|-------------|
|          | Clear MyKeys        |             |
| Display  | Language            |             |
|          | Units               | Distance    |
|          |                     | Temperature |
|          | Brake Coach Display |             |
|          | Regen Display       |             |
|          | Lifetime Summary    |             |

## INFORMATION MESSAGES

**Note:** Depending on the options on your vehicle, not all of the messages will display or be available. Certain messages may be abbreviated or shortened depending upon which cluster type you have.



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Press the **OK** button to acknowledge and remove some messages from the information display. Other messages will be removed automatically after a short time.

Certain messages need to be confirmed before you can access the menus.

## Message Indicator



The message indicator illuminates to supplement some messages. It will be red or amber depending on the severity of the message and will remain on until the cause of the message has been corrected.

Some messages will be supplemented by a system specific symbol with a message indicator.

# Information Displays

## Battery and Charging System

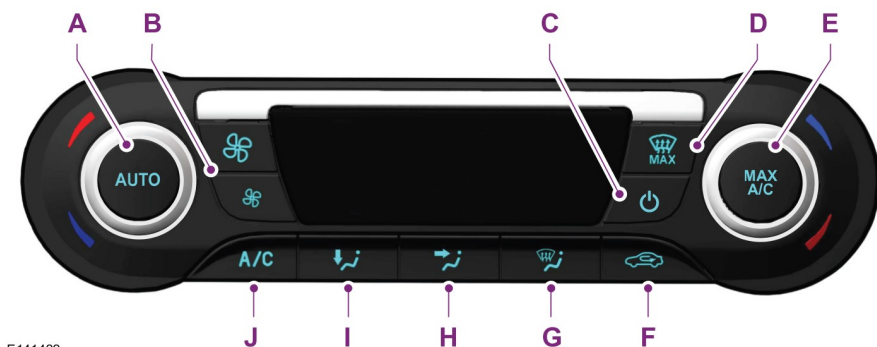
| Message                                          | Message Indicator | Action                                                                                                                                                                                                               |
|--------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Battery low See manual                           | Red               | Displays to warn of a low battery condition. Switch off all electrical accessories that are not required. See an authorized dealer.                                                                                  |
| Low battery                                      | -                 | Displays when the estimated range is 10 miles (16 kilometers) or 15 miles (24 kilometers) for MyKey. Your vehicle needs to be charged soon.                                                                          |
| Low battery reduce climate use for more range    | -                 | Displays when the estimated range is 10 miles (16 kilometers) or 15 miles (24 kilometers) for MyKey and the climate system is in use. Switch off all climate control systems not required to increase vehicle range. |
| Depleted Battery Stop safely now                 | -                 | Displays when the estimated range is 0 miles (0 kilometers). Stop your vehicle in a safe place. You must charge your vehicle.                                                                                        |
| Reduce Climate Use for More Range                | -                 | Displays when high climate usage may make it difficult to stay within your energy budget.                                                                                                                            |
| Unplug Prior to Starting Vehicle                 | -                 | Displays when attempting to start your vehicle while it is plugged in.                                                                                                                                               |
| Is Vehicle Plugged-in?                           | -                 | Displays when confirmation is needed that your vehicle is unplugged before a start is allowed. You must make sure your vehicle is unplugged and respond to the message prompt before starting your vehicle.          |
| Limited Performance Due to cold battery          | -                 | Displays when vehicle performance is affected by cold battery temperatures.                                                                                                                                          |
| Severely Limited Performance Due to cold battery | -                 | Displays when vehicle performance is severely affected by cold battery temperatures. Drive with caution. Keep vehicle plugged in when not in use to maintain proper battery temperature.                             |
| Limited Performance Due to hot battery           | -                 | Displays when vehicle performance is affected by hot battery temperatures.                                                                                                                                           |
| Severely Limited Performance Due to hot battery  | -                 | Displays when vehicle performance is severely affected by hot battery temperatures. Drive with caution. Keep vehicle plugged in when not in use to maintain proper battery temperature.                              |

## Information Displays

| Message                                              | Message Indicator | Action                                                                                                                                                                                             |
|------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stop Safely Now                                      | -                 | Displays when the stop safely warning lamp is illuminated. This indicates an electrical component fault or failure that will cause your vehicle to shut down or enter into limited operating mode. |
| It's Hot Outside... Plug Vehicle in When Not in Use  | -                 | Displays when the ambient temperature is hot. Plug in your vehicle to cool the high voltage battery for optimum performance.                                                                       |
| It's Cold Outside... Plug Vehicle in When Not in Use | -                 | Displays when the ambient temperature is cold. Plug in your vehicle to warm the high voltage battery for optimum performance.                                                                      |
| Ready To Drive                                       | -                 | Displays when your vehicle is ready to drive.                                                                                                                                                      |
| Ready to Drive Budget set for xx mi (km)             | -                 | Displays when your vehicle is ready to drive. Your budget is set for the current vehicle range estimate.                                                                                           |
| Budget Set for xx mi (km)                            | -                 | Displays when your budget is reset. Your budget is set for the current vehicle range estimate.                                                                                                     |

# Climate Control

## AUTOMATIC CLIMATE CONTROL



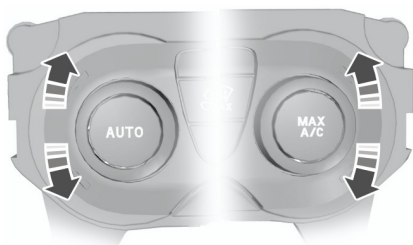
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- A **AUTO:** Press to engage full automatic operation. Once you select your desired temperature using the temperature control, the system then automatically determines fan speed, airflow distribution, A/C on or off, and outside or recirculated air, to heat or cool the vehicle to reach and maintain the desired temperature.
- B **Fan speed:** Press the large fan icon to increase the fan speed; press the small fan icon to decrease the fan speed. Pressing one of the fan speed buttons while in AUTO takes the system out of AUTO fan mode.
- C **On and off button:** Press to turn the system on or off.
- D **MAX Defrost:** Distributes outside air through the windshield defroster vents and demister vents. You can use this mode to clear the windshield of fog and thin ice. Automatically turns on rear window defroster and heated mirrors. Press this button again to return to the previous airflow selection.
- E **MAX A/C:** Press to distribute recirculated air through the instrument panel vents to cool the vehicle. Air conditioning automatically turns on, the fan speed automatically adjusts to the highest speed and the temperature display returns to the full cool position. This re-cooling of the interior air is more economical and efficient than normal air conditioning. Recirculated air may help reduce undesirable odors from entering the vehicle.
- F **Recirculated air:** Press to turn air recirculation on or off. Recirculated air may reduce the amount of time to cool down the interior of the vehicle and may help reduce undesired odors from reaching the interior of the vehicle. Recirculated air engages automatically when you select MAX A/C, or manually in any airflow mode except defrost. Recirculated air may turn off automatically in all airflow modes except MAX A/C to reduce fog potential.

# Climate Control

- G **Defrost:** Distributes air through the windshield defroster vents and demister vents. The system automatically provides outside air to reduce window fogging. Press again to turn off defrost mode.
- H **Instrument panel:** Press to distribute air through the instrument panel vents. Press again to turn off panel mode.
- I **Floor:** Distributes air through the demister vents and front and rear seat floor vents. Press again to turn off floor mode.
- J **Air conditioning:** Press to turn air conditioning on or off. Use with recirculated air to improve cooling performance and efficiency. Air conditioning also engages automatically in some modes.

## Temperature Control



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You can set the temperature between 60°F (15.5°C) and 85°F (29.5°C) in steps of 1°F (0.5°C). In position LO, 59°F (15°C), the system switches to permanent cooling. In position HI, 86°F (30°C), the system switches to permanent heating.

**Note:** If you select either position LO or HI, the system does not regulate a stable temperature.

## Operating Tips

- The air conditioning system cools both the interior of your vehicle and the high voltage battery. When it is hot outside the high voltage battery may require cooling. Interior cooling may temporarily reduce as a result. Keep your vehicle plugged in when possible to allow automatic battery cooling in high temperature conditions.
- Interior heating uses an electrical heater. Set the fan at a lower speed to get a warmer outlet temperature on cold days.

## Improving Vehicle Drive Range

Your vehicle has a high voltage electric compressor and a high voltage electric heater. You can increase your driving range by minimizing the amount of energy used to cool or heat the interior.

# Climate Control

---

You can do one of the following:

- By pre-conditioning the interior temperature during vehicle charging, you reduce the battery energy use for interior comfort and improve vehicle range.
- Hot and cold temperatures make your vehicle use more energy to achieve and maintain a comfortable interior temperature. Park your vehicle in the shade when hot and in a garage when cold.
- If weather conditions permit, consider partially opening a window to let fresh air circulate. You may achieve maximum energy savings by switching climate control off.
- Reduce fan speed.
- Set the **AUTO** temperature a couple degrees cooler than you normally do on cold days and a couple degrees higher on hot days. Use the heated seats on cold days to increase interior comfort.
- Switch climate control off in mild temperatures or low humidity conditions.
- Defrost mode automatically turns the air conditioning on to dehumidify the air and cannot be switched off. If defogging or demisting is not necessary, select a non-defrost mode and disengage air conditioning to extend vehicle range.
- Air conditioning and heating functions are automatically switched off (unless in defrost mode) when driving distance to empty is zero miles (zero km). However, the interior fan will continue to operate.

In mild temperatures, energy consumed by the climate system can be reduced by overriding the settings and simulating a fresh air vent mode.

You can achieve this by the following:

- Adjust the driver and passenger temperature settings to 60°F (15.5°C).
- Manually set the air distribution to panel or floor.
- Press the **A/C** button to switch the air conditioning off.
- Make sure that outside air is selected.
- Set the fan to the lowest or required speed setting.

# Starting and Stopping the Electric Motor

## STARTING THE ELECTRIC MOTOR

### Keyless Starting

**Note:** The keyless starting system may not function if the key is close to metal objects or electronic devices such as cellular phones.

**Note:** A valid key must be located inside your vehicle to switch the ignition on and start the vehicle.

**Note:** When locking your vehicle, any remote controls left inside your vehicle may disable. A message may appear in the information display indicating that there is no key detected when you try to start your vehicle. Press the unlock button on the remote control to enable it, and then start your vehicle.

### Ignition Modes



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The keyless starting system has three modes:

- **Off:** Turns the ignition off. Without applying the brake pedal, press and release the power button once when the ignition is in the on mode, or when the vehicle is on but not moving.
- **On:** All electrical circuits are operational and the warning lamps and indicators illuminate. Without applying the brake pedal, press and release the power button once from off mode.
- **Start:** Starts the vehicle. Press the brake pedal, and then press the power button for a couple of seconds. The green ready to drive indicator lamp appears in the instrument cluster when your vehicle is ready to drive.

### Starting Your Vehicle

Before starting your vehicle check the following:

- Make sure all the occupants have fastened their safety belts.
- Make sure the headlamps and electrical accessories are off.
- Make sure the parking brake is on.
- Move the transmission selector lever to position **P**.

**Note:** Do not touch the accelerator pedal.

1. Fully depress the brake pedal.
2. Press the power button.

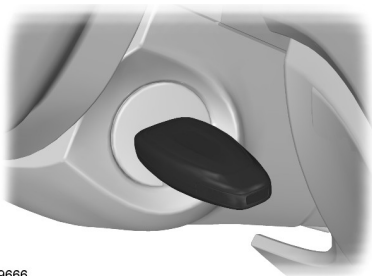
**Note:** You will not hear any engine noise.

The system does not function if:

- The key frequencies are jammed.
- The key battery has no charge.

If you are unable to start your vehicle, do the following:

# Starting and Stopping the Electric Motor



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1. Hold the key next to the steering column as shown.
2. With the key in this position, press the brake pedal then the power button to switch the ignition on and start your vehicle.

## Fast Restart

The fast restart feature allows you to restart your vehicle within 10 seconds of switching it off, even if a valid key is not present.

Within 10 seconds of switching your vehicle off, press the brake pedal and press the power button. After 10 seconds have expired, you can no longer start your vehicle without the key present inside your vehicle.

Once your vehicle has started, it remains running until you press the power button, even if the system does not detect a valid key. If you open and close a door while your vehicle is running, the system searches for a valid key. You cannot start your vehicle if the system does not detect a valid key within 10 seconds.

## SWITCHING OFF THE ELECTRIC MOTOR

### WARNING



Switching off the electric motor when your vehicle is still moving will result in a loss of brake and steering assistance. The steering will not lock, but higher effort will be required. With the ignition switched off some electrical circuits, warning lamps and indicators may also be off. Failure to follow this warning could result in serious personal injury or death.

When your vehicle is not moving and the electric motor is on or the ignition is in accessory mode, press and release the power button without pressing the brake pedal. This will shut off the electric motor and all electrical accessories.

When your vehicle is moving, press the power button three times within two seconds or press and hold for at least one second. Move the transmission selector lever to position **N** and use the brakes to bring your vehicle to a safe stop. When your vehicle has come to a complete stop, move the transmission selector lever to position **P**.

# High Voltage Battery

## GENERAL INFORMATION

### WARNINGS



This battery pack shall only be serviced by an authorized electric vehicle technician. Improper handling can result in personal injury or death.



Your vehicle consists of various high voltage components and wiring. All high voltage cables are labeled and covered with a solid orange covering or orange striped tape. Do not touch these components. Failure to follow this warning could result in serious personal injury or death.

The high voltage battery system is a high voltage, lightweight lithium-ion battery which has two individual packs. One pack is located in the rear cargo area behind the second row seats, the other is located underneath the vehicle. The high voltage battery system uses an advanced active liquid heating and cooling system to regulate high voltage battery temperature and help maximize the life of the high voltage battery.

**Note:** *The high voltage battery does not require regular service maintenance.*

**Note:** *The high voltage battery will experience gradual capacity loss with time and usage. This is normal.*

## CHARGING THE HIGH VOLTAGE BATTERY

### WARNINGS



Do not use the 230 volt occasional use charge cord with an extension cord or adapter. Failure to follow this warning could result in fire, serious personal injury or death.

### WARNINGS



Do not expose this equipment to flammable vapors. Failure to follow this warning could result in fire, serious personal injury or death.



Do not allow charging equipment to be immersed in water or liquids. Failure to follow this warning could result in fire, serious personal injury or death.



Do not attempt to open any charging equipment. There are no user serviceable parts inside. Failure to follow this warning could result in fire, serious personal injury or death.



Do not use the charging equipment if it is faulty or has been damaged. Failure to follow this warning could result in fire, serious personal injury or death.



Charging equipment must be installed in compliance with local regulations. Failure to follow this warning could result in fire, serious personal injury or death.



Use only the charging equipment supplied for the required charging option. Failure to follow this warning could result in fire, serious personal injury or death.



Always consult a licensed professional electrician to make sure that the charging socket outlet and circuit are in good condition. This includes protection against water ingress, protection for residual currents (RCD), correct current rating, and earthing for the purpose of charging an electric vehicle. An existing socket, even if already used for outdoor devices (for example garden

# High Voltage Battery

## WARNINGS

equipment), may not be suitable for charging an electric vehicle, particularly where the vehicle may be outside when on charge. Failure to follow this warning could result in fire, serious personal injury or death.

## Charging Equipment

**Note:** The 230 volt occasional use charge cord takes between 10 and 11 hours to fully charge an empty battery.

**Note:** The electrical source must meet certain requirements for the high voltage battery to charge. The AC outlet must be 230 volts, properly grounded, 10 amps (or greater) and in good condition.

**Note:** If a dedicated circuit is not used, the circuit breaker could trip or open. If a dedicated circuit is not available, contact a licensed professional electrician regarding the installation of a dedicated outlet.

**Note:** Move the transmission selector lever to position **P** before charging the high voltage battery.

Your vehicle is equipped with a 230 volt occasional use charge cord located in the luggage compartment underneath the carpeted panel. This allows you to charge the high voltage battery using a standard 230 volt household outlet.

Make sure that the occasional use charge cord is completely unwound before charging. Always plug the cord into the household outlet before connecting the charging coupler to your vehicle charging port. The occasional use charge cord has an inline control box with four indicator lights. These lights represent the charging status (power, charge, fault and emergency stop).

## Occasional Use Charge Cord Control Box

The power indicator will illuminate green when you connect the cord to the household socket.

The charge indicator reports the following:

- No illumination: the cord is not connected to your vehicle.
- Flashing green light: the high voltage battery is charging.
- Solid green light: your vehicle is connected but not charging.
- Flashing red light: the occasional use charge cord is trying to reset the failure and could restart the charging cycle.
- Solid red light: the fault is permanent. Disconnect and reconnect the cord to reset the fault. If the fault persists have your vehicle checked by an authorized dealer.
- Emergency stop indicator: the emergency stop button has been pressed and charging has stopped. Disconnect and reconnect the cord to restart charging.

# High Voltage Battery

## Home Charging Station



E166840

We recommend upgrading to the optional 230 volt home charging station for faster more efficient charging. Using the home charging station will take approximately three to four hours to fully charge an empty battery.

## Public Charging

Use the dedicated charge cord supplied with your vehicle.

## Charge Port and Light Ring



E157509

The charge port is located near the front left wheel. There is an indentation located on the charge port door. Press this to open and close the door.

**Note:** Do not use force to open or close the charge port door. Forcing the charge port door will damage the charge port.

The light ring located around the charge port indicates the charging status of the battery when connected to a charging station or occasional use charge cord.

There are four quadrants around the charge port indicating the charge status.

## Charge Status

You can use the remote control to view your vehicle charge status at any time by pressing the unlock button. The light ring will illuminate the corresponding quadrants so that the current state of your vehicle charge can be determined. Each illuminated quadrant indicates 25 percent of completed charge. If the total charge is below 25 percent the light ring will not illuminate. Press the lock button on your remote control to re-lock your vehicle.

# High Voltage Battery

## Charging

**Note:** Move the transmission selector lever to position **P** before charging the high voltage battery.

**Note:** When using the occasional use charge cord plug it into the household outlet before connecting to your vehicle.

**Note:** Follow the instructions on the home charging station when in use.

To charge the high voltage battery:

1. Move the transmission selector lever to position **P** and turn off your vehicle.
2. Press the indentation located on the charge port door and the door will rotate open.



E157510

3. Connect the charging coupler to your vehicle charge port. You will hear a click indicating the coupler has been correctly connected.
4. The four light quadrants will flash individually starting at the top right and ending with the top left of the light ring. This will happen twice before charging commences.

When charging, the light ring will display the charging status:

- When the top right quadrant is flashing the charge is between 0 and 25 percent.
- When the top right quadrant is solidly lit and the bottom right quadrant is flashing the charge is between 25 and 50 percent.
- When both right side quadrants are solidly lit and the bottom left quadrant is flashing the charge is between 50 and 75 percent.
- When three quadrants are solidly lit and the top left quadrant is flashing the charge is between 75 and 100 percent.
- When the entire ring is fully illuminated charging is complete.

**Note:** The illuminated ring will shut off one minute after the high voltage battery reaches full charge.

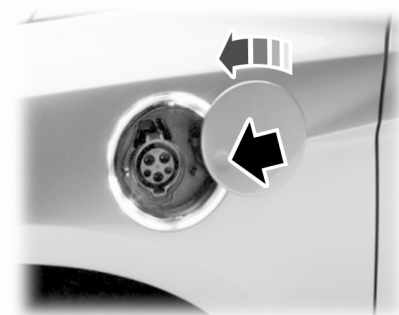
**Note:** If your vehicle detects a fault during the charging cycle the entire light ring will flash continuously for one minute and then shut off. If this happens disconnect and reconnect the charging coupler. If the problem persists have your vehicle checked by an authorized dealer.

## Disconnecting the Charging Coupler

**Note:** Do not remove the wall plug from the wall socket while your vehicle is charging. Doing so may damage the outlet and the cord.

1. Press the button on the charging coupler.
2. While pressing the button, remove the charging coupler from your vehicle charge port.

# High Voltage Battery



E157511

3. Close the charge port door by pressing the indentation on the charge port door. Continue pressing the indentation while the door rotates closed.

## HIGH VOLTAGE BATTERY CUT-OFF SWITCH

### WARNING



Do not store a severely damaged electric vehicle in a garage or near other vehicles. This is a fire risk and could result in personal injury or death.

**Note:** *In the event of a crash, this vehicle is equipped with a high voltage battery cut-off switch that stops the flow of electricity to the electric motor.*

In the event of a crash:

- exit your vehicle and move to a safe distance
- notify the emergency services of the crash and inform them that your vehicle is electric powered.

If the electric motor stops after a crash, you may restart your vehicle using the following procedure.



E166822

1. Press the power button to switch the ignition on.
2. Press the power button to switch the ignition off.
3. Open the door and wait for two minutes.
4. Press the power button to switch the ignition on again.

After completing this procedure your vehicle will detect if the electrical system is safe and unlock automatically. You can start your vehicle normally by pressing the brake pedal and the power button.

# High Voltage Battery

---

## ENERGY CONSUMPTION FIGURES

| <b>Energy Consumption</b> |
|---------------------------|
| <b>Wh/m (Wh/km)</b>       |
| 246 (154)                 |

| <b>Range</b>              |
|---------------------------|
| <b>Miles (Kilometers)</b> |
| 101 (162)                 |

The energy consumption figures are derived from laboratory tests according to ECE Regulation 101.01 and subsequent amendments.

They are intended as a comparison between makes and models of vehicles. They are not intended to represent the real world energy consumption you may get from your vehicle. Real world energy consumption is governed by many factors including: driving behavior, climate conditions, accessories used, payload, etc.

# Transmission

## AUTOMATIC TRANSMISSION

### Single Speed Automatic Transmission

#### WARNING



Always set the parking brake fully and make sure you move the transmission selector lever to **P**. Switch the ignition off and remove the key whenever you leave your vehicle.

The single speed transmission is built specifically to handle the high rotational speed range of an electric motor.

#### Transmission Selector Lever Positions



E157387

|   |         |
|---|---------|
| P | Park    |
| R | Reverse |
| N | Neutral |
| D | Drive   |
| L | Low     |

#### WARNING



Apply the brakes before moving the transmission selector lever and keep them applied until you are ready to move off.

Press the button on the transmission selector lever to change to each position.

The transmission selector lever position will be shown in the information display.

#### P (Park)

#### WARNINGS



Move the transmission selector lever to **P** only when your vehicle is stationary.



Apply the parking brake and move the transmission selector lever to **P** before leaving your vehicle. Make sure that the transmission selector lever is latched in position.

In this position, power is not transmitted to the drive wheels and the transmission is locked. You can start the electric motor with the transmission selector lever in this position.

**Note:** An audible warning will sound if you open the driver door and you have not moved the transmission selector lever to **P**.

#### R (Reverse)

#### WARNINGS



Move the transmission selector lever to **R** only when your vehicle is stationary.



Always come to a complete stop before shifting the transmission selector lever out of **R**.

Move the transmission selector lever to **R** to allow your vehicle to move backward.

#### N (Neutral)

In this position, power is not transmitted to the drive wheels but the transmission is not locked. You can start the electric motor with the transmission selector lever in this position.

# Transmission

## D (Drive)

The normal position for driving your vehicle. The transmission operates in a single gear built specifically to handle the electric motor output.

## L (Low)

Use this position for maximum motor braking, for example when driving down a steep hill. This position can be selected at any vehicle speed.

**Note:** Do not use this position under extended or normal driving conditions. This will result in less range per charge.

## Hints on Driving with an Automatic Transmission

### WARNING



Do not idle the electric motor for long periods of time in drive with the brakes applied.

## Moving Off

1. Release the parking brake.
2. Release the brake pedal and press the accelerator pedal.

## Stopping

1. Release the accelerator pedal and press the brake pedal.
2. Apply the parking brake.
3. Move the transmission selector lever to **N** or **P**.

## If Your Vehicle Gets Stuck In Mud or Snow

If your vehicle gets stuck in mud or snow, it may be rocked out by shifting between forward and reverse gears, stopping between shifts in a steady pattern. Press lightly on the accelerator in each gear.

**Note:** Do not rock your vehicle if the electric motor is not at normal operating temperature or damage to the transmission may occur.

**Note:** Excessive rocking may eventually cause a loss of power, as your vehicle protects against overheating or damage.

## Emergency Park Position Release Lever

### WARNINGS

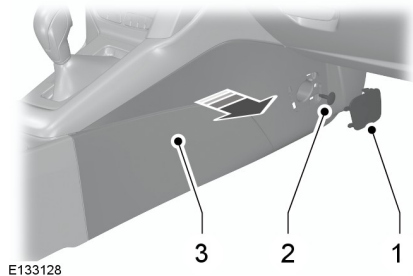


Do not drive your vehicle until you verify that the brake lamps are working.



If the parking brake is fully released, but the brake warning lamp remains illuminated, the brakes may not be working correctly. See an authorized dealer.

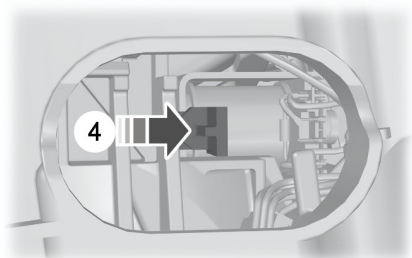
Use the lever to move the transmission selector lever from the **P** position in the event of an electrical malfunction or if your vehicle battery has no charge.



1. Apply the parking brake and turn the ignition off before carrying out this procedure.
2. Remove the retaining screw.
3. Remove the center console side panel.

# Transmission

---



E133129

**Note:** *The lever is white.*

4. Apply the brake pedal. Using a suitable tool rotate the lever forward while pulling the selector lever out of the **P** position and into the **N** position.

**Note:** *See an authorized dealer as soon as possible if this procedure is used.*

# Towing

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## TOWING A TRAILER

### WARNING



Your vehicle is not approved for trailer towing.

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# Roadside Emergencies

## JUMP-STARTING THE VEHICLE

### WARNINGS

 Connect batteries with only the same nominal voltage. Failure to follow this warning could result in serious personal injury.

 Always use booster cables with insulated clamps and adequate size cable. Failure to follow this warning could result in serious personal injury.

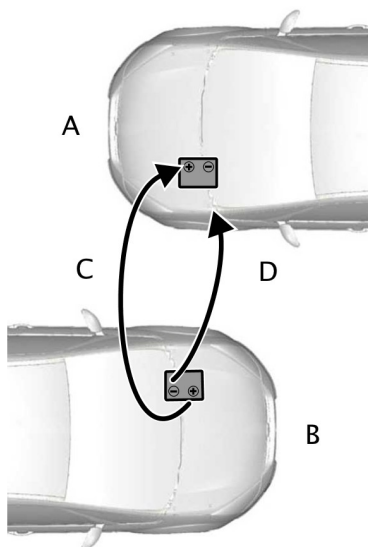
**Note:** This procedure is only for the 12 volt under hood battery.

**Note:** Your vehicle has a 12 volt battery that is easily accessible under the hood. The 12 volt battery controls the switches and contacts that engage the high voltage battery. Do not jump start the high voltage battery using a standard 12 volt battery. You must tow your vehicle to an authorized dealer if the high voltage battery does not accept a regular charge.

**Note:** Do not attempt to push start your vehicle. You may cause transmission damage.

**Note:** Do not disconnect the 12 volt battery from your vehicle electrical system.

## To Connect the Booster Cables



E102925

- A Vehicle with low charge battery
- B Booster battery vehicle
- C Positive connection cable
- D Negative connection cable

### WARNINGS

 Do not connect directly to the negative (–) terminal of the battery with low charge. A spark may cause an explosion of the gases that surround the battery or a surge within the battery.

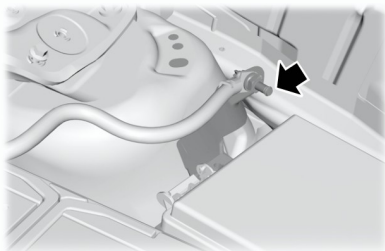
 Make sure that the cables are clear of any moving parts. Failure to follow this warning could result in serious personal injury or death.

1. Position the vehicles so that they do not touch one another.

# Roadside Emergencies

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2. Switch off the electric motor and any electrical equipment.
3. Connect the positive (+) terminal of vehicle B with the positive (+) terminal of vehicle A (cable C).



E152134

4. Connect the negative (-) terminal of vehicle B to the ground connection of vehicle A (cable D).

## To Start Your Vehicle

1. Run the engine of vehicle B at a moderately high speed.
2. Move the transmission selector lever of vehicle A to position **P**.
3. Switch on the ready to drive mode. See **Starting the Electric Motor** (page 19).
4. Run both vehicles for a minimum of three minutes before disconnecting the cables.

**Note:** Do not switch the headlamps on when disconnecting the cables. The peak voltage could blow the bulbs.

Disconnect the cables in the reverse order.

# Fuses

## FUSE SPECIFICATION CHART

### Pre-Fuse Box

Your vehicle has a pre-fuse box located in the electric motor compartment on the

front of the 12 volt battery box. It is connected to the 12 volt battery positive terminal. This fuse box contains several high current fuses. If replacement of these high current fuses is required, see an authorized dealer.

| Fuse | Fuse rating | Circuits protected                               |
|------|-------------|--------------------------------------------------|
| F1   | 80A         | Electronic power assist steering                 |
| F2   | 150A        | 12 volt battery charge                           |
| F3   | 100A        | Power distribution box                           |
| F4   | 50A         | Body control module (KL30A supply)               |
| F5   | 70A         | High voltage battery coolant element one and two |
| F6   | 70A         | Load compartment fuse box                        |
| F7   | -           | Not used                                         |
| F8   | 50A         | Electric motor cooling fan                       |
| F9   | 50A         | Body control module (supply)                     |
| F10  | 40A         | High voltage battery coolant element three       |

### Electric Motor Compartment Fuse Box

#### WARNING

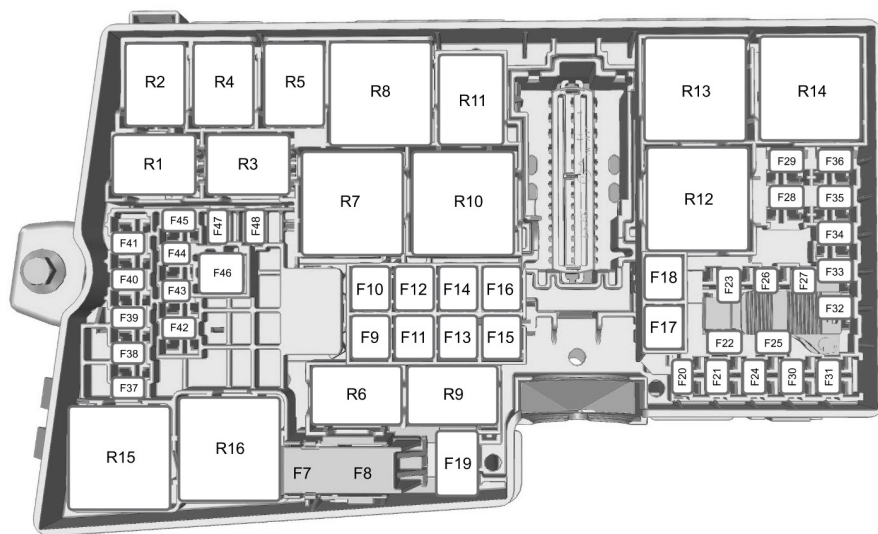


To reduce risk of electrical shock, always replace the cover to the power distribution box before reconnecting the battery or refilling fluid reservoirs. Always disconnect the 12 volt battery before servicing high current fuses.

This fuse box contains several high current fuses that protect your vehicle's main electrical systems from overloads.

If the 12 volt battery has been disconnected and reconnected, some features will need to be reset.

# Fuses



E129925

Lift the release lever at the rear of the cover to remove it.

| Fuse | Fuse rating | Circuits protected                          |
|------|-------------|---------------------------------------------|
| F7   | 40A         | Anti-lock brake system<br>Stability control |
| F8   | 30A         | Stability control                           |
| F9   | -           | Not used                                    |
| F10  | 40A         | Blower motor                                |
| F11  | 40A         | Vacuum pump                                 |
| F12  | 40A         | Electric motor control relay                |
| F13  | 40A         | Battery charging control module             |
| F14  | 40A         | Coolant heater one                          |
| F15  | 30A         | Body control module                         |
| F16  | 40A         | Coolant heater two                          |

## Fuses

| Fuse | Fuse rating | Circuits protected                                             |
|------|-------------|----------------------------------------------------------------|
| F17  | -           | Not used                                                       |
| F18  | 20A         | Windshield wiper                                               |
| F19  | 5A          | Anti-lock brake system<br>Stability control                    |
| F20  | 15A         | Horn                                                           |
| F21  | 5A          | Stop lamp switch                                               |
| F22  | 15A         | Battery monitoring system                                      |
| F23  | 5A          | Relay coils                                                    |
| F24  | 5A          | Lighting control switch module                                 |
| F25  | -           | Not used                                                       |
| F26  | 10A         | Powertrain control module                                      |
| F27  | 15A         | Charge port light ring                                         |
| F28  | 5A          | Vacuum pump monitor                                            |
| F29  | -           | Not used                                                       |
| F30  | 15A         | Torque control module                                          |
| F31  | 10A         | Data link connector                                            |
| F32  | 10A         | Coolant valve<br>Air conditioning solenoid<br>Chiller solenoid |
| F33  | 10A         | Powertrain control module                                      |
| F34  | 15A         | High voltage battery                                           |
| F35  | -           | Not used                                                       |
| F35  | -           | Not used                                                       |
| F36  | 20A         | Coolant pump                                                   |
| F37  | 5A          | Vehicle audible sound for pedestrians                          |
| F38  | 15A         | Powertrain control module                                      |
| F39  | 5A          | Headlamp leveling (halogen lamps)                              |
| F40  | 5A          | Electronic power assist steering                               |

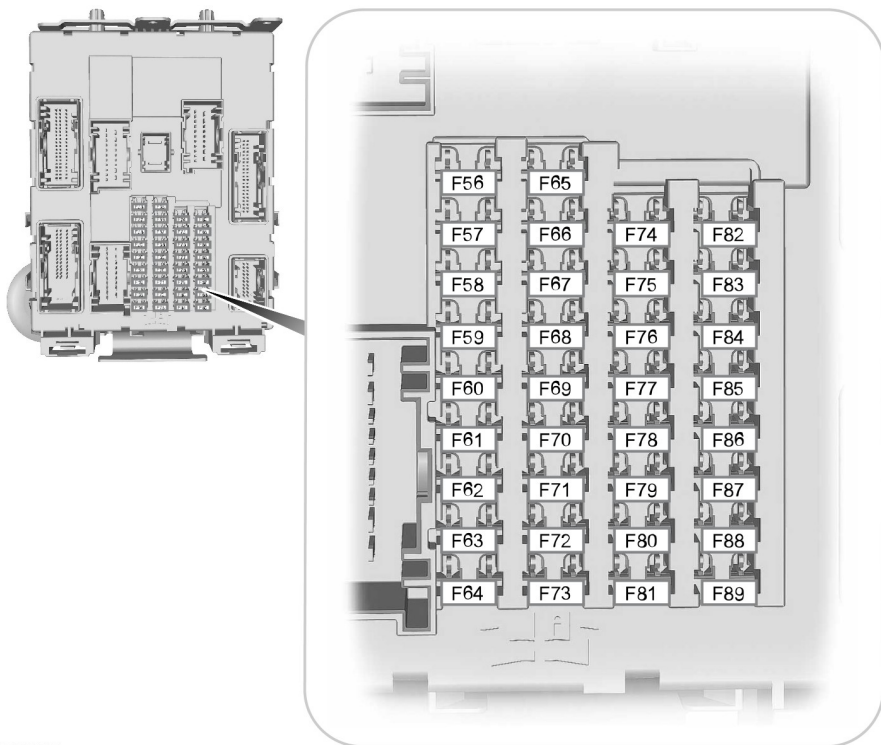
## Fuses

| <b>Fuse</b> | <b>Fuse rating</b> | <b>Circuits protected</b>                                                     |
|-------------|--------------------|-------------------------------------------------------------------------------|
| F41         | 20A                | Body control module                                                           |
| F42         | 15A                | Rear window wiper                                                             |
| F43         | 15A                | Headlamp leveling (high intensity discharge lamps)<br>Adaptive front lighting |
| F44         | -                  | Not used                                                                      |
| F45         | 10A                | Heated washer jets                                                            |
| F46         | -                  | Not used                                                                      |
| F47         | 5A                 | In-vehicle temperature sensor                                                 |
| F48         | 5A                 | Mechanical relay coil fuse                                                    |

| <b>Relay</b> | <b>Circuit switched</b>       |
|--------------|-------------------------------|
| R1           | Not used                      |
| R2           | Horn                          |
| R3           | Not used                      |
| R4           | High voltage battery          |
| R5           | Not used                      |
| R6           | Not used                      |
| R7           | Coolant heater                |
| R8           | Coolant heater                |
| R9           | Not used                      |
| R10          | Vacuum pump                   |
| R11          | Not used                      |
| R12          | Electronic fan control module |
| R13          | Blower motor                  |
| R14          | Electric motor control        |
| R15          | Vacuum pump                   |
| R16          | Ignition                      |

# Fuses

## Passenger Compartment Fuse Box



E129926

| Fuse | Fuse rating | Circuits protected                                                 |
|------|-------------|--------------------------------------------------------------------|
| F56  | -           | Not used                                                           |
| F57  | -           | Not used                                                           |
| F58  | -           | Not used                                                           |
| F59  | 5A          | passive anti-theft system (supply)                                 |
| F60  | 10A         | Interior lamp<br>Driver door switch pack<br>Glove compartment lamp |

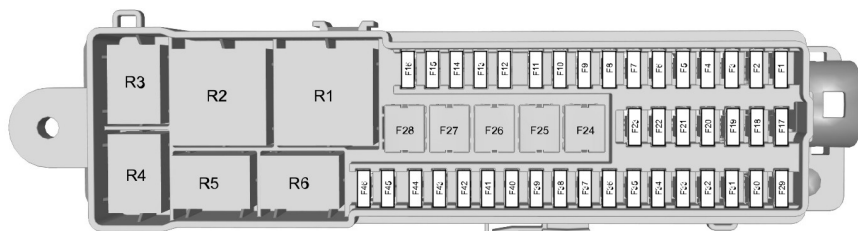
## Fuses

| Fuse | Fuse rating | Circuits protected                                                                                                    |
|------|-------------|-----------------------------------------------------------------------------------------------------------------------|
|      |             | Ambient lighting lamp<br>Moonroof                                                                                     |
| F61  | 20A         | Front cigar lighter socket<br>Rear auxiliary power points                                                             |
| F62  | 5A          | Rain sensor<br>Humidity sensor<br>Auto-dimming mirror                                                                 |
| F63  | -           | Not used                                                                                                              |
| F64  | -           | Not used                                                                                                              |
| F65  | 10A         | Luggage compartment lid release                                                                                       |
| F66  | 20A         | Driver door lock<br>Double locking                                                                                    |
| F67  | 7.5A        | Front display interface module<br>Global positioning sensor<br>Bluetooth phone and voice control connectivity<br>SYNC |
| F68  | 15A         | Electrical steering column lock                                                                                       |
| F69  | 5A          | Instrument panel cluster                                                                                              |
| F70  | 20A         | Central locking                                                                                                       |
| F71  | 10A         | Air conditioning                                                                                                      |
| F72  | 7.5A        | Steering wheel control module                                                                                         |
| F73  | 5A          | Battery back-up sounder (alarm system)<br>Onboard diagnostics system                                                  |
| F74  | 15A         | High beam headlamp                                                                                                    |
| F75  | 15A         | Front fog lamp                                                                                                        |
| F76  | 10A         | Reversing lamp                                                                                                        |
| F77  | 20A         | Washer pump                                                                                                           |
| F78  | 5A          | Ignition switch<br>Push button ignition switch                                                                        |
| F79  | 15A         | Audio unit<br>Hazard flasher switch<br>Door lock buttons                                                              |

# Fuses

| Fuse | Fuse rating | Circuits protected                                                                                                                                 |
|------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| F80  | 20A         | Moonroof                                                                                                                                           |
| F81  | 5A          | Interior motion sensor<br>Radio frequency receiver                                                                                                 |
| F82  | 20A         | Washer pump (ground)                                                                                                                               |
| F83  | 20A         | Central locking (ground)                                                                                                                           |
| F84  | 20A         | Driver door unlock (ground)<br>Double locking ground (ground)                                                                                      |
| F85  | 7.5A        | Climate control heater<br>Passenger airbag deactivation switch<br>Heated seats switch<br>Auxiliary heater<br>Manual air conditioning heater module |
| F86  | 10A         | Restraint system<br>Passenger airbag deactivation system                                                                                           |
| F87  | -           | Not used                                                                                                                                           |
| F88  | -           | Not used                                                                                                                                           |
| F89  | -           | Not used                                                                                                                                           |

## Load Compartment Fuse Box



E129927

# Fuses

| <b>Fuse</b> | <b>Fuse rating</b> | <b>Circuits protected</b>                                                                                                     |
|-------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------|
| F1          | 5A                 | Telematics control unit                                                                                                       |
| F2          | 10A                | Keyless vehicle module                                                                                                        |
| F3          | 5A                 | Keyless vehicle door handles                                                                                                  |
| F4          | 25A                | Front power window (left)<br>Central locking (front left)<br>Power folding mirror (left)<br>Heated exterior mirror (left)     |
| F5          | 25A                | Front power window (right)<br>Central locking (front right)<br>Power folding mirror (right)<br>Heated exterior mirror (right) |
| F6          | 25A                | Rear power window (left)                                                                                                      |
| F7          | 25A                | Rear power window (right)                                                                                                     |
| F8          | 10A                | Anti-theft alarm system                                                                                                       |
| F9          | 25A                | Driver power seat                                                                                                             |
| F10         | 25A                | Heated rear window                                                                                                            |
| F11         | 5A                 | Battery electronic control module                                                                                             |
| F12         | -                  | Not used                                                                                                                      |
| F13         | -                  | Not used                                                                                                                      |
| F14         | -                  | Not used                                                                                                                      |
| F15         | -                  | Not used                                                                                                                      |
| F16         | -                  | Not used                                                                                                                      |
| F17         | -                  | Not used                                                                                                                      |
| F18         | -                  | Not used                                                                                                                      |
| F19         | -                  | Not used                                                                                                                      |
| F20         | -                  | Not used                                                                                                                      |
| F21         | -                  | Not used                                                                                                                      |
| F22         | -                  | Not used                                                                                                                      |
| F23         | -                  | Not used                                                                                                                      |

## Fuses

| Fuse | Fuse rating | Circuits protected            |
|------|-------------|-------------------------------|
| F24  | -           | Not used                      |
| F25  | -           | Not used                      |
| F26  | -           | Not used                      |
| F27  | -           | Not used                      |
| F28  | -           | Not used                      |
| F29  | 5A          | Parking aid camera            |
| F30  | 5A          | Parking aid module            |
| F31  | -           | Not used                      |
| F32  | -           | Not used                      |
| F33  | -           | Not used                      |
| F34  | 15A         | Heated seat (driver)          |
| F35  | 15A         | Heated seat (front passenger) |
| F36  | -           | Not used                      |
| F37  | -           | Not used                      |
| F38  | -           | Not used                      |
| F39  | -           | Not used                      |
| F40  | -           | Not used                      |
| F41  | -           | Not used                      |
| F42  | -           | Not used                      |
| F43  | -           | Not used                      |
| F44  | -           | Not used                      |
| F45  | -           | Not used                      |
| F46  | -           | Not used                      |

## Fuses

---

| Relay | Circuit switched      |
|-------|-----------------------|
| R1    | Rear 15               |
| R2    | Heated rear window    |
| R3    | Rear window wiper     |
| R4    | Not used              |
| R5    | Anti-theft alarm horn |
| R6    | Not used              |

# Maintenance

## GENERAL INFORMATION

Have your vehicle serviced regularly to help maintain its roadworthiness and resale value. There is a large network of Ford authorized repairers that are there to help you with their professional servicing expertise. Authorized repairers are best qualified to service your vehicle properly and expertly, with a wide range of highly specialized tools.

In addition to regular servicing, we recommend that you carry out the following checks.

### WARNINGS



Switch the ignition off before touching or attempting adjustment of any kind.



Do not touch the electronic ignition system parts after you have switched the ignition on or when the electric motor is running. The system operates at high voltage.



Keep your hands and clothing clear of the electric motor cooling fan. Under certain conditions, the fan may continue to run for several minutes after you have switched the electric motor off.



Make sure that you fit filler caps securely after carrying out maintenance checks.

## High Voltage Information

### WARNING



Exposure to high voltage could result in severe personal injury or death.

High voltage components must be serviced by a trained service technician.

Your vehicle consists of various high voltage components and wiring. All of the high voltage power flows through specific wiring assemblies which are labeled as such or are covered with a solid orange convolute or orange stripe tape. Do not come in contact with these components.

## Daily Checks

- Exterior lamps.
- Interior lamps.
- Warning lamps and indicators.

## Weekly Checks

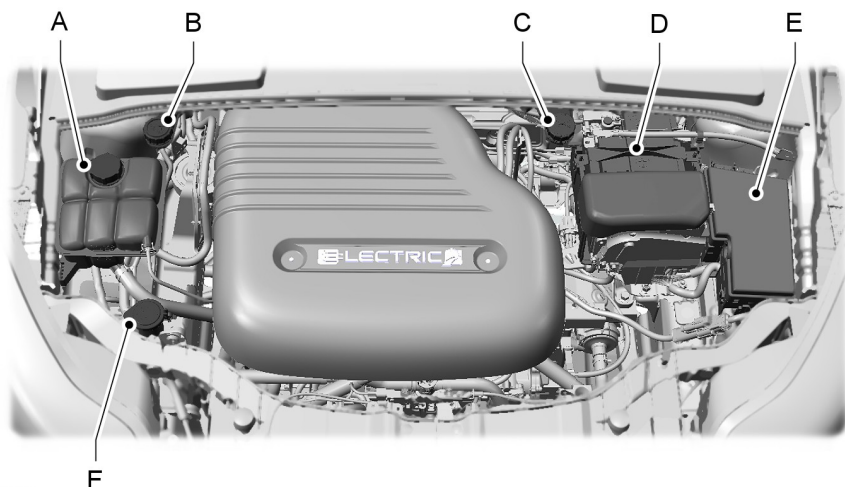
- Brake fluid level.
- Washer fluid level.
- Tire pressures (when cold).
- Tire condition.

## Monthly Checks

- Coolant level. See **Coolant Check** (page 44).
- Pipes, hoses and reservoirs for leaks.
- Air conditioning operation.
- Parking brake operation.
- Horn operation.
- Tightness of lug nuts. See **Technical Specifications** (page 47).

# Maintenance

## UNDER HOOD OVERVIEW



E155552

- A Coolant reservoir. See **Coolant Check** (page 44).
- B Brake fluid reservoir (right-hand drive).
- C Brake fluid reservoir (left-hand drive).
- D 12 volt battery.
- E Electric motor compartment fuse box. See **Fuses** (page 33).
- F Windshield washer fluid reservoir.

## COOLANT CHECK

### WARNING



Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your physician. Failure to follow this warning could result in serious personal injury.

## Checking the Coolant

When the electric motor is cold, check the level of the coolant in the reservoir at the intervals listed in the scheduled maintenance information.

If the level is at the **MIN** mark, add coolant immediately.

**Note:** Make sure that the level is between the **MIN** and the **MAX** marks.

**Note:** Coolant expands when it is hot. The level may extend beyond the **MAX** mark.

# Maintenance

**Note:** It is very important to use prediluted coolant meeting the Ford specification in order to avoid plugging the small coolant passageways. Use of concentrated coolant and water may cause coolant passageway plugging and void the warranty. See **Technical Specifications** (page 46).

**Note:** Automotive fluids are not interchangeable; do not use coolant, antifreeze or windshield washer fluid outside of its specified function and vehicle location.

## Adding Coolant

### WARNINGS



Do not add coolant when the electric motor is hot. Steam and scalding liquids released from a hot cooling system can cause severe burns. You could receive burns if you spill coolant on hot motor parts. Failure to follow this warning could result in serious personal injury.



Do not put coolant in the windshield washer fluid container. If sprayed on the windshield, coolant could make it difficult to see through the windshield. Failure to follow this warning could result in serious personal injury or death.



To reduce the risk of personal injury, make sure the electric motor is cool before unscrewing the coolant pressure relief cap. The cooling system is under pressure; steam and hot liquid can come out forcefully when the cap is loosened slightly. Failure to follow this warning could result in serious personal injury.

**Note:** Do not add coolant further than the **MAX** mark.

**Note:** In an emergency, add water to the cooling system to reach an authorized dealer. Have the system checked by an authorized dealer as soon as possible.

**Note:** Coolant replacement can only be completed by an authorized dealer. If not performed properly, damage could occur to the cooling system components and may void the warranty.

**Note:** Do not use stop leak pellets or cooling system sealants or additives as they can cause damage to the cooling and heating systems. This damage would not be covered under your vehicle warranty.

**Note:** During normal vehicle operation, the coolant may change color from orange to pink or light red. As long as the coolant is clear and uncontaminated, this color change does not indicate the coolant has degraded nor does it require the coolant to be drained, the system to be flushed, or the coolant to be replaced.

Do not mix different colors or types of coolant in your vehicle. Make sure the correct coolant is used. Mixing of coolants may harm your cooling system. The use of an improper coolant may harm the electric motor or cooling system components and may invalidate the vehicle warranty.

A large amount of water without coolant may be added, in case of emergency, to reach a vehicle service location. In this instance the cooling system must be drained, chemically cleaned, and refilled with prediluted coolant as soon as possible. Water alone (without coolant) can cause damage from corrosion, overheating, freezing or blocking.

Do not add extra inhibitors or additives to the coolant. These can be harmful and compromise the corrosion protection of the coolant.

Unscrew the cap slowly. Any pressure will escape as you unscrew the cap.

Add prediluted coolant meeting the Ford specification. See **Technical Specifications** (page 46).

# Maintenance

Whenever coolant has been added, the coolant level in the coolant reservoir should be checked the next few times you

drive the vehicle. If necessary, add enough prediluted coolant to bring the coolant level to the correct level.

## TECHNICAL SPECIFICATIONS

### Vehicle Fluids

**Note:** Use fluids which meet the specifications or requirements defined. Use of other fluids may lead to damage which is not covered by your warranty.

| Item                                  | Capacity                         | Specification | Recommended fluid                                        |
|---------------------------------------|----------------------------------|---------------|----------------------------------------------------------|
| Brake fluid                           | Between MIN and MAX on reservoir | WSS-M6C65-A2  | Motorcraft or Ford DOT 4 LV High Performance Brake Fluid |
| Electric power-train assembly coolant | 3.3 gal (15 L)                   | WSS-M97B44-D2 | Prediluted Motorcraft Orange Antifreeze                  |
| Transmission fluid                    | 0.3 gal (1.3 L)                  | WSS-M2C938-A  | Motorcraft MERCON® LV ATF XT-10-QLV / MERCON® LV         |

# Wheels and Tires

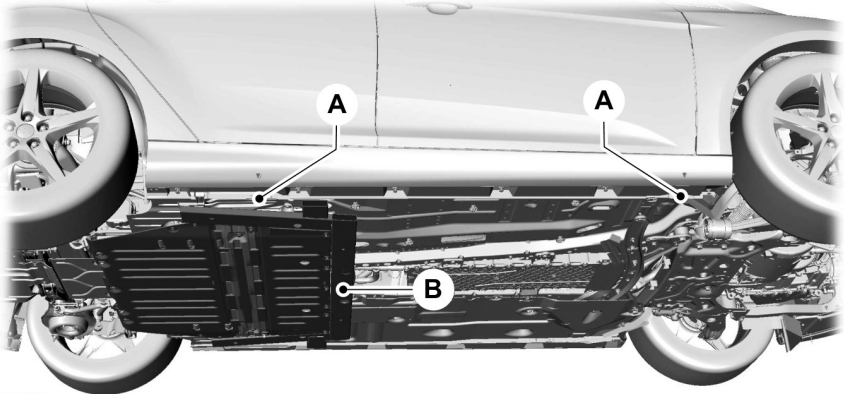
## CHANGING A ROAD WHEEL

### Important Information for Lifting or Jacking

#### WARNING



If you do not follow the guidelines it will result in extensive damage to the high voltage battery.



E167345

- A Lifting points
- B High voltage battery and support brace

If you need to use a jack or hoist to service your vehicle, make sure the lift pads do not contact the high voltage battery or support brace.

The high voltage battery and support brace are very close to the rear lifting points. These points are identifiable by a triangle icon. Position the lift pads of the jack or hoist at the specified lifting points. Lifting your vehicle with the lift pads of the jack or hoist on the high voltage battery or the brace will damage the battery.

## TECHNICAL SPECIFICATIONS

### Tire Pressures (Cold Tires)

#### Lug Nut Torque

| Wheel Type | lbf.ft (Nm)         |
|------------|---------------------|
| All        | 100 lbf.ft (135 Nm) |

# Wheels and Tires

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## Up to 100mph (160km/h)

| Size        | Normal              |                     | Full                |                     |
|-------------|---------------------|---------------------|---------------------|---------------------|
|             | Front               | Rear                | Front               | Rear                |
|             | psi (bar)           | psi (bar)           | psi (bar)           | psi (bar)           |
| 215/60 R16* | 36 psi<br>(2.5 bar) | 36 psi<br>(2.5 bar) | 36 psi<br>(2.5 bar) | 36 psi<br>(2.5 bar) |
| 215/55 R17  | 36 psi<br>(2.5 bar) | 36 psi<br>(2.5 bar) | 36 psi<br>(2.5 bar) | 36 psi<br>(2.5 bar) |

\*Only fit snow chains to specified tires.

# Index

## A

|                                          |    |
|------------------------------------------|----|
| A/C                                      |    |
| See: Climate Control.....                | 16 |
| About This Supplement.....               | 3  |
| Air Conditioning                         |    |
| See: Climate Control.....                | 16 |
| Automatic Climate Control.....           | 16 |
| Improving Vehicle Drive Range.....       | 17 |
| Operating Tips.....                      | 17 |
| Temperature Control.....                 | 17 |
| Automatic Transmission.....              | 27 |
| Emergency Park Position Release          |    |
| Lever.....                               | 28 |
| Hints on Driving with an Automatic       |    |
| Transmission.....                        | 28 |
| Single Speed Automatic Transmission..... | 27 |

## C

|                                        |    |
|----------------------------------------|----|
| Changing a Road Wheel.....             | 47 |
| Important Information for Lifting or   |    |
| Jacking.....                           | 47 |
| Charging the High Voltage Battery..... | 21 |
| Charge Port and Light Ring.....        | 23 |
| Charging.....                          | 24 |
| Charging Equipment.....                | 22 |
| Child Safety.....                      | 4  |
| Climate Control.....                   | 16 |
| Coolant Check.....                     | 44 |
| Adding Coolant.....                    | 45 |
| Checking the Coolant.....              | 44 |

## E

|                                 |    |
|---------------------------------|----|
| Energy Consumption Figures..... | 26 |
|---------------------------------|----|

## F

|                                     |    |
|-------------------------------------|----|
| Fuses.....                          | 33 |
| Fuse Specification Chart.....       | 33 |
| Electric Motor Compartment Fuse     |    |
| Box.....                            | 33 |
| Load Compartment Fuse Box.....      | 39 |
| Passenger Compartment Fuse Box..... | 37 |
| Pre-Fuse Box.....                   | 33 |

## G

|                                        |   |
|----------------------------------------|---|
| Gauges.....                            | 5 |
| Battery Gauge.....                     | 5 |
| Brake Coach Display.....               | 6 |
| Trip Summary and Lifetime Summary..... | 6 |

## H

|                              |    |
|------------------------------|----|
| Heating                      |    |
| See: Climate Control.....    | 16 |
| High Voltage Battery Cut-Off |    |
| Switch.....                  | 25 |
| High Voltage Battery.....    | 21 |
| General Information.....     | 21 |

## I

|                                  |    |
|----------------------------------|----|
| Information Displays.....        | 8  |
| General Information.....         | 8  |
| Information Messages.....        | 13 |
| Battery and Charging System..... | 14 |
| Message Indicator.....           | 13 |
| Installing Child Seats.....      | 4  |
| Top Tether Anchor Points.....    | 4  |
| Instrument Cluster.....          | 5  |
| Introduction.....                | 3  |

## J

|                                    |    |
|------------------------------------|----|
| Jump-Starting the Vehicle.....     | 31 |
| To Connect the Booster Cables..... | 31 |
| To Start Your Vehicle.....         | 32 |

## L

|                                 |    |
|---------------------------------|----|
| Lug Nuts                        |    |
| See: Changing a Road Wheel..... | 47 |

## M

|                                |    |
|--------------------------------|----|
| Maintenance.....               | 43 |
| General Information.....       | 43 |
| Technical Specifications.....  | 46 |
| Message Center                 |    |
| See: Information Displays..... | 8  |

# Index

---

## R

Roadside Emergencies.....31

## S

Starting and Stopping the Electric

Motor.....19

Starting the Electric Motor.....19

Keyless Starting.....19

Starting Your Vehicle.....19

Switching Off the Electric Motor.....20

## T

Tires

See: Wheels and Tires.....47

Towing a Trailer.....30

Towing.....30

Transmission.....27

Transmission

See: Transmission.....27

## U

Under Hood Overview.....44

## V

Ventilation

See: Climate Control.....16

## W

Warning Lamps and Indicators.....6

Charging System.....7

High Voltage Battery Low or Depleted.....7

Limited Performance Indicator.....7

Motor Coolant Overheat Warning

Lamp.....7

Powertrain Malfunction or Reduced Power

Warning Lamp.....7

Ready to Drive Indicator.....7

Stop Safely Warning Lamp.....7

Vehicle Plugged In.....7

Wheel Nuts

See: Changing a Road Wheel.....47

Wheels and Tires.....47

Technical Specifications.....47



