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DAMAGED VEHICLE GUIDANCE FOR FORD MOTOR COMPANY
ELECTRIC AND HYBRID-ELECTRIC VEHICLES EQUIPPED WITH
HIGH VOLTAGE BATTERIES

DAMAGED BATTERY ELECTRIC VEHICLE STORAGE PLACARD
FOREWORD

The emergency response procedures for the Focus Electric vehicles are similar to those for hybrid electric vehicles with the same considerations for the high-voltage electric system components.

Focus Electric vehicles use an electric motor to power the vehicle. Electricity is stored in high-voltage battery packs.

The system incorporates a generator function in the electric motor that recharges the high-voltage batteries during cruising and braking.

The information in this guide will help provide a safe response to emergencies involving Focus Electric vehicles.

The Focus Electric vehicle has been designed with many safety features for your protection. These features help provide safe access to the vehicle under various conditions however, when approaching a high-voltage vehicle in a fire, rescue or recovery situation, always follow one industry standard rule:

**ALWAYS ASSUME THE VEHICLE’S HIGH-VOLTAGE SYSTEM IS POWERED UP!**
ELECTRIC VEHICLE IDENTIFICATION

Focus Electric vehicles can easily be identified by the “Electric” badges located on the left and right front doors. There is an “Electric” nameplate on the trunk lid that also includes the green leaf/blue highway icon.
ELECTRIC VEHICLE IDENTIFICATION - CONTINUED

- Focus Electric powertrains can be identified by the orange high-voltage underhood cabling.

![Image of Focus Electric powertrain with orange high-voltage cabling](image)

Orange high-voltage cabling from the high-voltage battery packs.

- The 5th, 6th and 7th digits of the Vehicle Identification Number (VIN) identify the Focus Electric line.

<table>
<thead>
<tr>
<th>VIN POSITIONS 5, 6 and 7</th>
<th>VEHICLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>P3R</td>
<td>Focus Electric</td>
</tr>
</tbody>
</table>

SAMPLE VIN

1FAD P3R10AR100001

Focus Electric
HIGH-VOLTAGE ELECTRICAL DISCONNECT FEATURES

WARNING: ELECTRIC VEHICLES DAMAGED BY A CRASH MAY HAVE COMPROMISED HIGH VOLTAGE SAFETY SYSTEMS AND PRESENT A POTENTIAL HIGH VOLTAGE ELECTRICAL SHOCK HAZARD. EXERCISE CAUTION AND WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) SAFETY GEAR, INCLUDING HIGH VOLTAGE SAFETY GLOVES AND BOOTS. REMOVE ALL METALLIC JEWELRY, INCLUDING WATCHES AND RINGS. ISOLATE THE HIGH VOLTAGE SYSTEM AS DIRECTED BY THE FORD EMERGENCY RESPONSE GUIDE FOR THE VEHICLE. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

The following list describes certain features that have been incorporated into Focus Electric vehicles that allows for either simple or automatic shut-off of the high-voltage electrical systems.

- High-Voltage Fuse — In the event of a high-voltage short circuit, the high-voltage fuse will open, isolating the high-voltage system.

- High-Voltage Interlock Circuit — Whenever a high-voltage connector is disconnected, the high-voltage interlock circuit opens and isolates the high-voltage system. The circuit will also open if a high-voltage cable is cut, broken, or severed. This circuit is wrapped around high-voltage cables.

- Ignition is in the OFF Position — Any time the ignition is in the OFF position (and the vehicle is not being charged), the high-voltage system is isolated.

- High-Voltage Service Disconnect — Whenever either of the high-voltage service disconnects are removed, the high-voltage system is isolated. For additional information, refer to Pages 10-12 in this manual.

- Thermal Sensors — If the battery is in extreme hot ambient conditions and/or is being driven extremely aggressively with compromised cooling, power limits will be employed to prevent overheating. However, if the battery is in use and does become too hot, contactors will be opened and the vehicle will shut down.
HIGH-VOLTAGE WARNING DECALS

- On Ford electric vehicles, WARNING decals are located on components in the high-voltage system throughout the vehicle. Please see example below.
COMPONENT LOCATION AND IDENTIFICATION

The illustrations and defining chart below on Page 8 and 9, provide the location, description and basic function of the Focus Electric system components.

**NOTE:** All high-voltage wires and harnesses are wrapped in orange-colored insulation.
<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>LOCATION / DESCRIPTION</th>
<th>FUNCTION</th>
</tr>
</thead>
</table>
| 1 High-Voltage Service Disconnects | • Upper disconnect is located behind the rear seatback. Lower disconnect is below the upper pack near the right hand rear tire.  
  • Orange in color with a square body design. Uses a two stage release tab. | Provides means to disconnect high-voltage batteries for safely servicing vehicle.            |
| 2 High-Voltage Battery        | • Located behind the rear seatback and under vehicle.  
  • Liquid cooled/heated lithium ion. | Provides high-voltage storage for vehicle’s electric motor.                                   |
| 3 High-Voltage Wiring         | • Runs along the vehicle’s floorpan from the high-voltage battery to the underhood compartment.  
  • All high-voltage wiring has orange-colored insulation. | Provides physical connection between high-voltage battery and vehicle’s high-voltage equipment. |
| 4 12-Volt Battery             | • Located under the hood on the driver side of the vehicle.  
  • Typical automotive 6-cell lead/acid design. | Provides 12-volts for vehicle accessories.                                                   |
| 5 Single Speed Automatic Transmission (Gearbox) | • Transverse-mounted design, similar to the non-Electric Focus vehicles.  
  • Attached to the traction motor | Provides rotational force to the wheels for vehicle propulsion.                               |
| 6 DC/DC Converter             | • Located under the hood on the passenger side, next to the washer solvent reservoir.  
  • Has orange high-voltage wires and Motor Electronics Cooling System hoses attached to it. | Provides 12 volts to charge the 12-volt battery and run vehicle accessories.                |
## COMPONENT LOCATION AND IDENTIFICATION - CONTINUED

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>LOCATION / DESCRIPTION</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 Electric Motor</td>
<td>• Liquid cooled 3-phase AC permanent magnet motor.</td>
<td>Turns energy from the high-voltage traction battery into movement that is applied to the transmission for vehicle propulsion.</td>
</tr>
<tr>
<td></td>
<td>• Attached to gearbox, centrally located in the engine compartment.</td>
<td></td>
</tr>
<tr>
<td>8 Transmission Control Module (TCM)</td>
<td>• Module located on top of the electric motor.</td>
<td>The TCM controls the motor/inverters to produce the desired torque output to the wheels.</td>
</tr>
<tr>
<td></td>
<td>• Hall effect sensor type module.</td>
<td></td>
</tr>
<tr>
<td>9 Electric Air Conditioning Compressor</td>
<td>• Located in front of the motor.</td>
<td>Replaces the belt driven air compressor.</td>
</tr>
<tr>
<td></td>
<td>• Has an orange high-voltage wire attached to it using an interlock connector.</td>
<td></td>
</tr>
<tr>
<td>10 PTC Heater (Cabin Coolant Heater)</td>
<td>• Located on the RH side of the motor near the DC/DC converter.</td>
<td>Used to raise the temperature of the coolant to normal operating temperature.</td>
</tr>
<tr>
<td></td>
<td>• Has both low and high voltage electrical connections.</td>
<td></td>
</tr>
</tbody>
</table>
HIGH-VOLTAGE SERVICE DISCONNECTS

WARNING: ELECTRIC VEHICLES DAMAGED BY A CRASH MAY HAVE COMPROMISED HIGH VOLTAGE SAFETY SYSTEMS AND PRESENT A POTENTIAL HIGH VOLTAGE ELECTRICAL SHOCK HAZARD. EXERCISE CAUTION AND WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) SAFETY GEAR, INCLUDING HIGH VOLTAGE SAFETY GLOVES AND BOOTS. REMOVE ALL METALLIC JEWELRY, INCLUDING WATCHES AND RINGS. ISOLATE THE HIGH VOLTAGE SYSTEM AS DIRECTED BY THE FORD EMERGENCY RESPONSE GUIDE FOR THE VEHICLE. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

NOTE: To gain access to the upper battery high-voltage service disconnect, the rear 60% seat backrest must be lowered.

• Locate the seat backrest release lever at the top of the seatback.

• Push the release lever at the top of the seatback.

• Remove the cover to access the upper battery service disconnect.
HIGH-VOLTAGE SERVICE DISCONNECTS - CONTINUED

• Depress the release tab at the top of the service disconnect and rotate the release handle down approximately 45 degrees.

• Depress the release tab again, and rotate the handle another 45 degrees to the fully released position. Pull out on the handle to remove the upper service disconnect.
• The lower battery high-voltage service disconnect is located on the passenger side of the vehicle near the rear tire.

• Remove the retainer from the parking brake cable bracket, and position the parking brake cable and bracket aside. Depress the release tab at the rear of the service disconnect, and rotate the release handle approximately 45 degrees towards the front of the vehicle. Depress the release tab again, and rotate the release handle another 45 degrees to the fully released position. Pull out on the handle to remove the lower service disconnect.
HIGH-VOLTAGE BATTERY PACKS

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**WARNING:** FIRES IN CRASH-DAMAGED ELECTRIC VEHICLES MAY EMIT TOXIC OR COMBUSTIBLE GASSES. SMALL AMOUNTS OF EYE, SKIN OR LUNG IRRITANTS MAY BE PRESENT. WEAR PERSONAL PROTECTIVE EQUIPMENT (PPE) AND SELF-CONTAINED BREATHING APPARATUS WHEN WORKING IN CLOSE PROXIMITY OR IN A CONFINED AREA, SUCH AS A TUNNEL OR GARAGE. VENTILATE THE VEHICLE INTERIOR BY OPENING VEHICLE WINDOWS OR DOORS. VENTILATE THE WORKING AREA. FAILURE TO FOLLOW THIS INSTRUCTION MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

- Do not cut the high-voltage battery case. Do not penetrate the batteries or case in any way.

- The high-voltage battery packs are located behind the rear seatback, and under the vehicle beneath the upper battery pack location.

- Removing the high-voltage service disconnects will isolate the high-voltage from the vehicle. The battery pack will remain live and dangerous.

- The total voltage of the battery pack is approximately 325 volts DC.

- The battery case is designed to be water resistant.

- The battery cells contain a base electrolyte, consisting of lithium hexafluorophosphate and organic solvents as the dominant active ingredient, that is absorbed in special polymeric film. The electrolyte will not leak from the battery under most conditions, however, if the battery is crushed, it is possible for a small amount of electrolyte to leak.
HIGH-VOLTAGE BATTERY PACKS - CONTINUED

• If possible, isolate and avoid contact with high-voltage vehicle components. If contact with the high-voltage system cannot be avoided, Personal Protective Equipment (PPE) such as splash shield or safety goggles, gloves (latex, rubber or Nitrile), an apron or overcoat, and rubber boots are required when handling damaged batteries. Exposure to electrolyte could cause skin and/or eye irritation/burns. If exposed, rinse with large amounts of water for 10-15 minutes.

• If the battery is exposed to intense heat (or other abusive conditions), it is possible that flammable gases and liquid (electrolyte) have been released from the cells. The gases include combustible hydrocarbons such as methane, toxic gases such as carbon monoxide, and very small amounts of eye/skin/lung irritants such as hydrofluoric acid could be released from the battery. Appropriate precautions should be taken to make sure the area is properly ventilated, such as opening the vehicle’s windows or doors. First responders should wear Personal Protective Equipment (PPE) and self contained breathing apparatus to safeguard against thermal, electrical, respiratory, and skin/eye hazards.

APPROACHING A DAMAGED HIGH-VOLTAGE VEHICLE

⚠️ WARNING: ELECTRIC VEHICLES DAMAGED BY A CRASH MAY HAVE COMPROMISED HIGH VOLTAGE SAFETY SYSTEMS AND PRESENT A POTENTIAL HIGH VOLTAGE ELECTRICAL SHOCK HAZARD. EXERCISE CAUTION AND WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) SAFETY GEAR, INCLUDING HIGH VOLTAGE SAFETY GLOVES AND BOOTS. REMOVE ALL METALLIC JEWELRY, INCLUDING WATCHES AND RINGS. ISOLATE THE HIGH VOLTAGE SYSTEM AS DIRECTED BY THE FORD EMERGENCY RESPONSE GUIDE FOR THE VEHICLE. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

⚠️ WARNING: DAMAGED ELECTRIC VEHICLES SUBMERGED IN WATER PRESENT A POTENTIAL HIGH VOLTAGE ELECTRICAL SHOCK HAZARD. EXERCISE CAUTION AND WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) SAFETY GEAR, INCLUDING HIGH VOLTAGE SAFETY GLOVES AND BOOTS. REMOVE ALL METALLIC JEWELRY, INCLUDING WATCHES AND RINGS. DO NOT ATTEMPT TO EXTRACT THE VEHICLE UNTIL THE HIGH VOLTAGE BATTERY HAS DISCHARGED INDICATED BY THE ABSENCE OF BUBBLING OR FIZZING. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.
1. FOLLOW EXISTING TRAINING AND INCIDENT COMMANDER DIRECTION

- Emergency responders should use **LARGE** amounts of water if fire is present or suspected and, keeping in mind that fire can occur for a considerable period after the crash, should proceed accordingly.

- This guide provides only supplemental information as it pertains to Focus Electric vehicles. The same rules apply when approaching any potential high-voltage situation. Always follow your high-voltage safety training. Some precautions to take in a high-voltage situation include:
  - Remove all jewelry: Watches, necklaces and earrings. Remove any metal objects that are conductors of electricity.
  - Wear the necessary PPEs: high-voltage rubber gloves, face shield, insulated boots, protective raincoat and apron.

- Bring the following equipment:
  - Class ABC powder-type fire extinguisher.
  - A nonconductive object, about 1.5 m (5 ft) long. This can be used to safely push someone away from the vehicle if they accidentally come in contact with high-voltage.
2. APPROACHING A DAMAGED VEHICLE

• Disable the high-voltage electrical system using as many of the following steps as possible:

  — Secure the vehicle: Place the shift lever into the PARK position. Check that the vehicle ready light is OFF to verify the high-voltage system is disconnected. If the vehicle ready light is ON, press the Start button to turn OFF the ignition. Block the wheels, if necessary.

  — Disconnect the negative cable from the 12-volt battery.

  — If possible, remove the high-voltage service disconnect(s). For additional information, refer to pages 10-12 in this manual. If the service disconnects cannot be removed, avoid the high-voltage system components, and wear all appropriate PPE as outlined on page 13 of this guide.

• If the vehicle is on fire, use a Class ABC powder-type extinguisher to contain and smother the flames. If water is being used, LARGE amounts of water will be required to extinguish the flames. A fire-hydrant or dedicated fire hose can supply the needed amount. Water can cause some degree of arcing/shorting across the cell and/or battery terminals; it can also react with the electrolyte from the cells to generate additional combustible gas and other by-products such as hydrofluoric acid; however, the cooling and smothering effects of flushing the affected article with large amounts of water and/or other fire suppression material is still beneficial for minimizing the severity of the event.

• If the vehicle has any exposed cables, make sure to wear high-voltage rubber gloves and other appropriate PPE. Do not touch any broken or damaged high-voltage orange cables. Treat severed cables as if they contain high-voltage.

• If the vehicle is submerged in water, varying degrees of arcing/shorting within the battery will take place. Do not touch any high-voltage components or orange cables while extricating the occupant(s). Do not remove the vehicle until you are sure the high-voltage battery is completely discharged. A submerged high-voltage battery may produce a fizzing or bubbling reaction to the water. If fizzing or bubbling is observed, the high-voltage battery will be discharged when the fizzing or bubbling has completely stopped, however, still treat it as if it was not discharged.
3. High-Voltage System - Do Not Cut Zones

- If possible, remove the high-voltage battery service disconnect(s) before attempting any extrication procedure. Always assume the high-voltage cabling and components are powered up.

- If occupant extrication is necessary, always use caution when cutting near the vehicle high-voltage system components. Do not cut any of the high-voltage under vehicle or under hood cabling (all high-voltage cabling is orange in color). High-voltage cabling runs from the high-voltage batteries under the left hand side of the vehicle to the underhood compartment, and the vehicle charge port located on the left front fender. Refer to the diagram below for no cut zones in orange.
4. IF THE HIGH-VOLTAGE BATTERY CASE HAS BEEN RUPTURED

• Just like any other battery, hose the area down with LARGE amounts of water.

5. MOVING DAMAGED VEHICLES — WRECKER DRIVERS

• Do not attempt to pull / tow vehicle with all four wheels on the ground as this may cause the vehicle to generate electricity and can cause potential damage.

• If possible, remove the high-voltage service disconnects. For additional information, refer to pages 10-12 in this manual.

• Rather than attempt to discharge a propulsion battery, an emergency responder, tow truck operator, or storage facility manager should contact experts at the vehicle manufacturer on that subject.

• Operators of tow trucks and vehicle storage facilities should ensure the damaged vehicle is kept in an open area instead of inside a garage or other enclosed building.

• Follow the guidelines in the Wrecker Towing Manual.
  — Front Tow: Wheel Lift (FWD)
  — Rear Tow: Wheel Lift with Dolly (FWD)
  — Flatbed: (FWD)

• If you detect leaking fluids, sparks, smoke, flames, increased temperature, gurgling, popping or hissing noises from the high-voltage battery compartment, ventilate the passenger area (i.e., roll down windows or open doors) and call 911.

• Be alert. There is potential for delayed fire with damaged lithium-ion batteries.

• Call an authorized Ford Dealer or vehicle manufacturer representative, if necessary, to determine additional steps that you should take to safely recover or transport the vehicle.

• Always approach vehicle from the sides to stay out of potential travel path. It may be difficult to determine if the vehicle is running due to lack of engine noise.
APPROACHING A DAMAGED HIGH-VOLTAGE VEHICLE - CONTINUED

MOVING DAMAGED VEHICLES — WRECKER DRIVERS (CONTINUED)

• Place vehicle into park, set the parking brake, turn off the vehicle, activate the hazard lights, and remove the key fobs to a distance at least 16 feet from the vehicle until loading the vehicle for transport.

• Refer to vehicle manual/recovery guide to locate proper attachment/connection points and transport method.

• Avoid contact with orange high-voltage cabling and areas identified as high-voltage risk by warning labels.

6. ELECTRIC AND HYBRID-ELECTRIC VEHICLE CONSIDERATIONS

In the event of damage to or fire involving an electric vehicle (EV).

• Always assume the high-voltage (HV) battery and associated components are energized and fully charged.

• Exposed electrical components, wires, and HV batteries present potential HV shock hazards.

• Venting/off-gassing HV battery vapors are potentially toxic and flammable.

• Physical damage to the vehicle or HV battery may result in immediate or delayed release of toxic and/or flammable gases and fire.

7. SPECIAL NOTE TO SALVAGE YARDS

• If a vehicle with a high-voltage battery is to be scrapped, the high-voltage battery must be disposed of following all local, state/provincial and federal guidelines.
In the event of damage or fire involving an Electric Vehicle (EV) or Hybrid-Electric Vehicle (HEV):

- Always assume the high-voltage (HV) battery and associated components are energized and fully charged.

- Exposed electrical components, wires and HV batteries present potential HV shock hazards.

- Venting/off-gassing HV battery vapors are potentially toxic and flammable.

- Physical damage to the vehicle or HV battery may result in immediate or delayed release of toxic and/or flammable gases and fire.

Vehicle Shutdown and High-Voltage System Disabling

Identify Vehicle

- Determine if the vehicle is an electric or hybrid-electric vehicle, and if it is, advise your dispatch and all other responders that an electric or hybrid-electric vehicle is involved.

- To identify potential symptoms of a damaged high-voltage system, contact an authorized service center or vehicle manufacturer representative. Refer to the Vehicle Owner Manual, Emergency Placard (included in the Vehicle Owner Manual) and/or the Emergency Response Guide for appropriate contact information.

- If you detect leaking fluids, sparks, smoke, flames, increased temperature, gurgling, popping or hissing noises from the HV battery compartment, ventilate the passenger area (i.e., roll down windows or open doors) and call 911.

- Be alert. There is a potential for delayed fire with damaged lithium-ion batteries.

Recovering/Transporting Vehicle

- Call an authorized service center or vehicle manufacturer representative, if necessary, to determine additional steps that you should take to safely recover or transport the vehicle.

- Always approach the vehicle from the sides to stay out of potential travel path. It may be difficult to determine if the vehicle is running due to lack of engine noise.
• Place vehicle into Park, set the parking brake, turn off the vehicle, activate hazard lights, and remove keys to a distance at least 16 feet from the vehicle until loading the vehicle for transport.

• Refer to vehicle manual/recovery guide to locate proper attachment/connection points and transport method.

• Avoid contact with orange high-voltage cabling and areas identified as high-voltage risk by warning labels.

**Storing Vehicle**

• For vehicles in the United States, notify Ford Motor Company 1-800-392-3673 (then follow the prompts on the voice response menu) or an authorized Ford Dealer as soon as possible as there may be additional steps necessary to secure, discharge, handle, and/or store the HV battery and vehicle.

• For vehicles in Canada, notify Ford Motor Company 1-800-565-3673 (then follow the prompts on the voice response menu), or an authorized Ford dealer as soon as possible as there may be additional steps necessary to secure, discharge, handle, and/or store the HV battery and vehicle.

• Do not store a severely damaged vehicle with a lithium-ion battery inside a structure or within 50 feet of any structure or vehicle.

• Ensure that passenger and cargo compartments remain ventilated.

• Prior to placing and while located in storage area/tow lot, continue to inspect vehicle for leaking fluids, sparks, smoke, flames, gurgling or bubbling sounds from the HV battery and call 911 if any of these are detected.

• Maintain clear access to stored vehicles for monitoring and emergency response if needed.

For specific information and safety preparation regarding the high-voltage system, refer to [WWW.MOTORCRAFTSERVICE.COM](http://WWW.MOTORCRAFTSERVICE.COM), select quick guides for the appropriate vehicle emergency response guide.

**NOTICE:** Never attempt to tow the vehicle with its drive wheels on the ground.
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**WARNING:** ELECTRIC VEHICLES WITH DAMAGED HIGH VOLTAGE BATTERIES REQUIRE SPECIAL HANDLING PRECAUTIONS. INSPECT THE VEHICLE CAREFULLY FOR LEAKING BATTERY FLUIDS, SPARKS, FLAMES, AND GURGLING OR BUBBLING SOUNDS. CONTACT EMERGENCY SERVICES IMMEDIATELY IF ANY OF THESE PROBLEMS ARE OBSERVED. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN A VEHICLE FIRE AND PERSONAL INJURY OR DEATH.
WARNING:
BATTERY ELECTRIC VEHICLE WITH POSSIBLE HIGH VOLTAGE SYSTEM DAMAGE. DO NOT TOUCH!

• If the vehicle and/or battery high-voltage system is damaged, place a sign indicating that it is a battery electric vehicle with potentially dangerous high-voltage. See example below:

DAMAGED BATTERY ELECTRIC VEHICLE STORAGE PLACARD

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