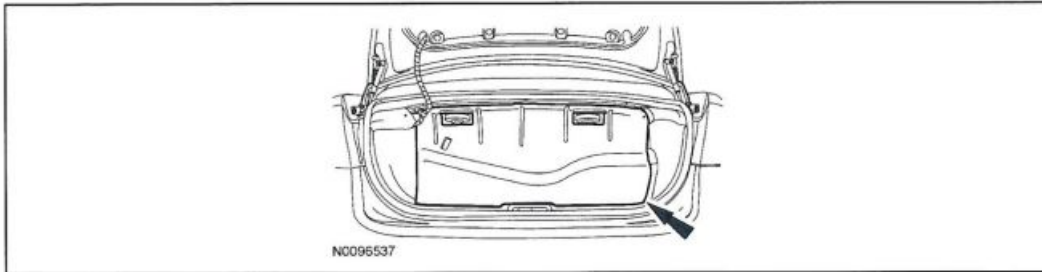




BESTHYBRID BATTERIES

2010 - 2012 Ford Fusion and Lincoln MKZ HV Battery Removal and Installation Instructions

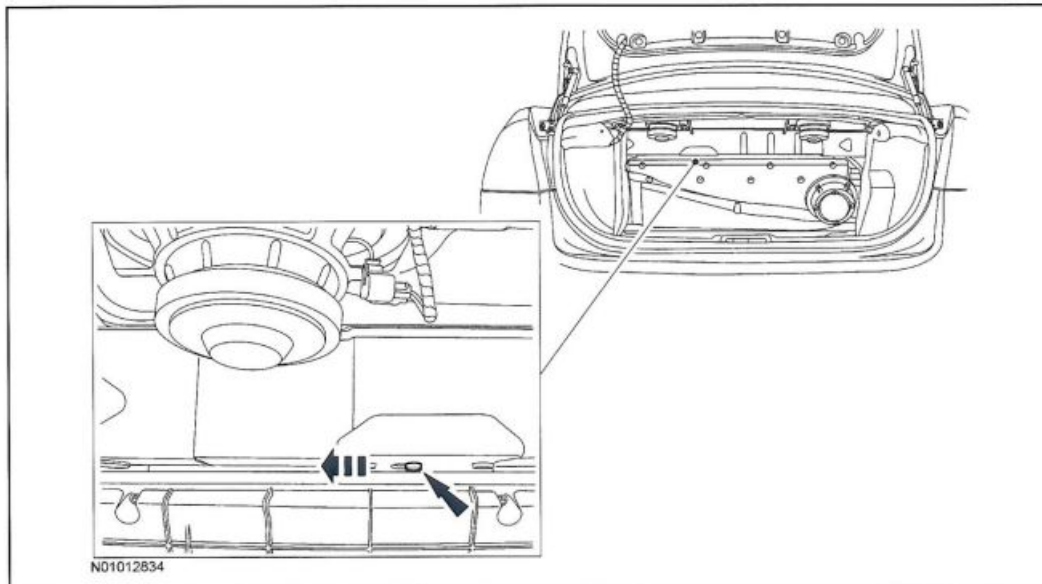
1. Turn the ignition off.
2. Remove the 4 pin-type retainers and the trunk front cover.



3. **NOTE:**
If the center safety belt retractor locks and the safety belt webbing prevents the 60 percent backrest from lowering, raise the backrest upward to release the safety belt retractor and belt webbing.

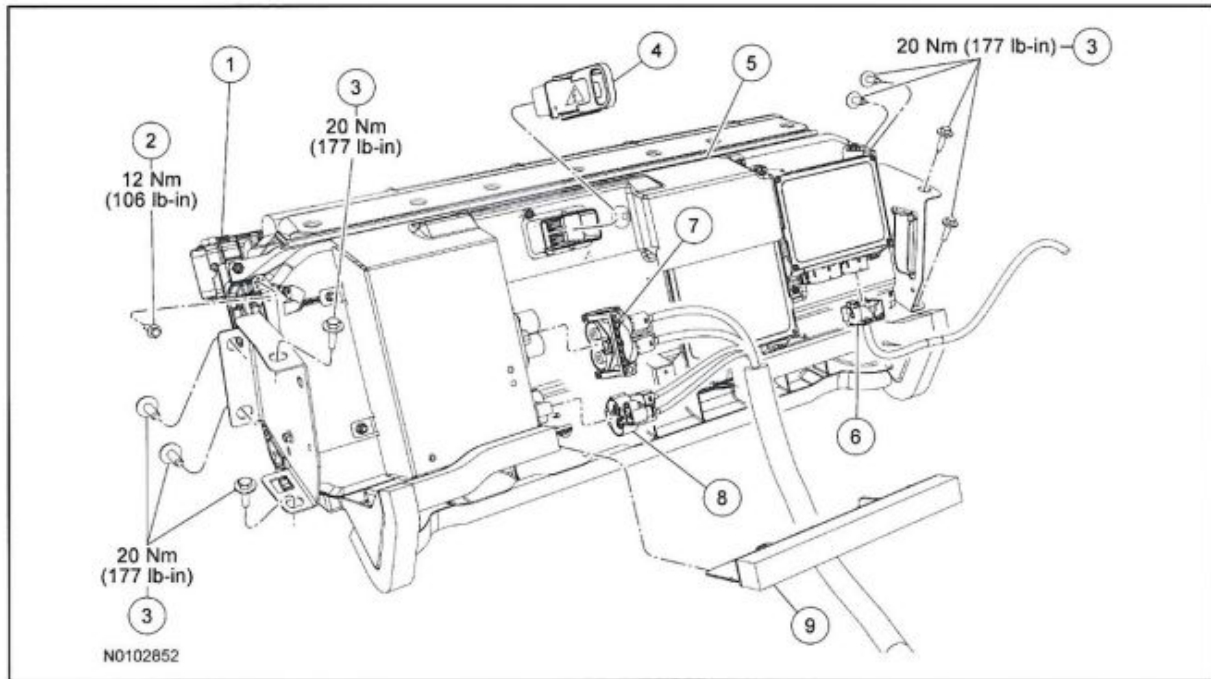
Fold the LH backrest down.

- Between the High Voltage Traction Battery (HVTB) and the sheet metal, locate the seat backrest latch release lever.
- Push the release lever toward the outboard side of the vehicle and fold the backrest down.



4. Slide the handle of the service disconnect plug toward the LH side of the vehicle.

High-Voltage Traction Battery



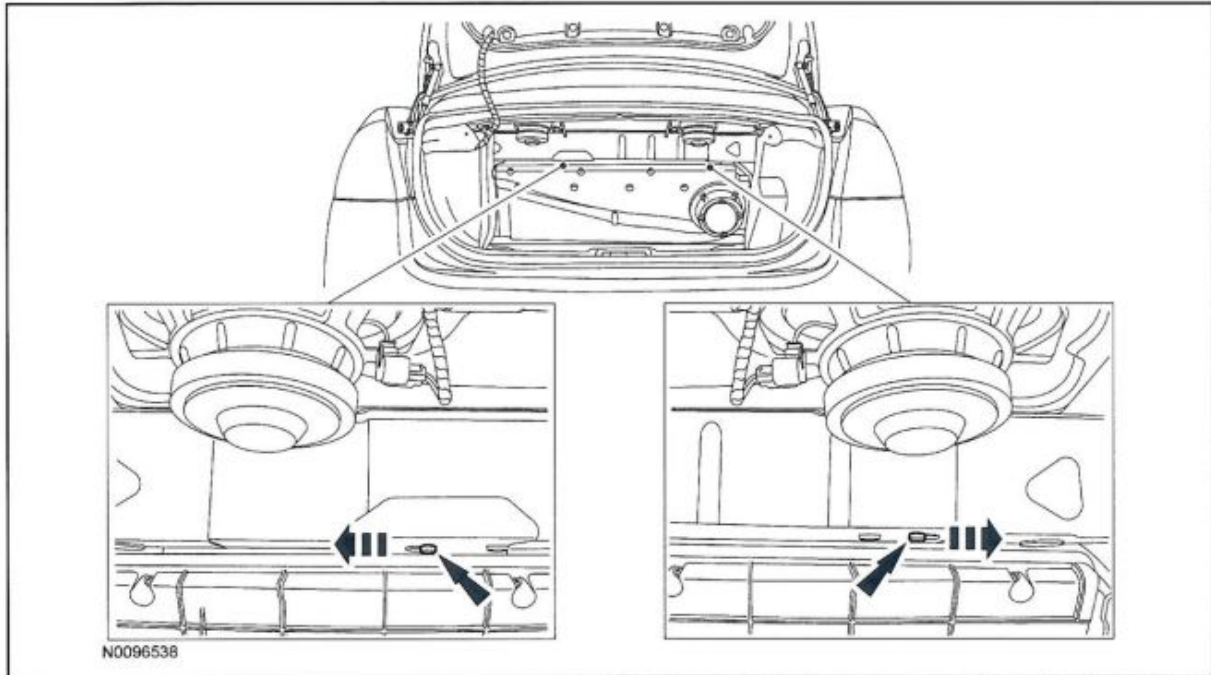
Item	Part Number	Description
1	10C665	High Voltage Traction Battery (HVTB) cooling outlet duct
2	W712524	HVTB ground strap-to-chassis bolt
3	W505435	HVTB mounting bolts (8 required)
4	10A757	HVTB service disconnect plug
5	10B759	HVTB assembly
6	—	Battery Energy Control Module (BECM) 50-pin connector (part of 14A005)
7	—	High-voltage/high-current electrical connector (part of 14300)
8	—	High-voltage/low-current electrical connector (part of 14300)
9	19B680	HVTB cooling inlet duct plate

Removal and Installation

WARNING:

To prevent the risk of high-voltage shock, always follow precisely all warnings and service instructions, including instructions to depower the system. The high-voltage hybrid system utilizes approximately 300 volts DC, provided through high-voltage cables to its components and modules. The high-voltage cables and wiring are identified by orange harness tape or orange wire covering. All high-voltage components are marked with high-voltage warning labels with a high-voltage symbol. Failure to follow these instructions may result in serious personal injury or death.

1. Depower the High Voltage Traction Battery (HVTB). For additional information, refer to High-Voltage Traction Battery Systems Depowering in this section.
2. Fold the RH backrest down.
 - Between the HVTB and the sheet metal, locate the seat backrest latch release lever.
 - Push the release lever toward the outboard side of the vehicle and fold the backrest down.



3. Remove the RH rear seat bolster. For additional information, refer to Section 501-10.
4. Disconnect the cooling fan jumper harness electrical connector, then remove the wiring connector pushpin from the HVTB handle bracket.
5. Remove the HVTB cooling inlet duct. For additional information, refer to High-Voltage Traction Battery Cooling Inlet Duct in this section.
6. Disconnect the 50-pin connector at the Battery Energy Control Module (BECM).
7. Remove the ground strap-to-chassis bolt and position the ground strap aside
 - To install, tighten to 12 Nm (106 lb-in).
8. Remove the 2 plastic bumpers from the back of the rear seat back by releasing the 2 pushpins.
9. **NOTE:**
The attaching bolts have a conductive coating on them and are serrated under the head flange. These features ground the HVTB to the vehicle, which is required for electro-magnetic compatibility. If a bolt(s) is lost or damaged, a new identical bolt(s) must be installed.

Remove the 4 HVTB mounting bolts from the trunk area that secure the HVTB to the brackets.
 - To install, tighten to 20 Nm (177 lb-in).
10. **NOTE:**
The attaching bolts have a conductive coating on them and are serrated under the head flange. These features ground the HVTB to the vehicle, which is required for electro-magnetic compatibility. If a bolt(s) is lost or damaged, a new identical bolt(s) must be installed.

From each rear door opening, remove the 2 HVTB mounting bolts (total of 4 bolts) that secure the HVTB to the brackets.
 - To install, tighten to 20 Nm (177 lb-in).
11. **NOTICE:**
Lay a fender cover or other protective material over the seat backs to reduce the possibility of damage when removing the battery.

NOTICE:
Make certain the High Voltage Traction Battery (HVTB) does not mar or damage the interior panels or seating during removal. There is very little clearance on each side.

With the help of an assistant inside the vehicle, grasp the handles on each side of the battery and slide the battery forward and out of the vehicle.
12. To install, reverse the removal procedure.