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2005 FORD Mustang Convertible OEM Service and Repair Workshop Manual

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No

REPAIR the affected circuit.

D15 CHECK THE BATTERY CURRENT SENSOR CONNECTION

- Ignition OFF.
- Disconnect Battery Current Sensor C3888, if necessary.
- Inspect the battery current sensor connector for:
 - corrosion (install new connector or terminals – clean module pins)
 - damaged or bent pins – install new terminals/pins
 - pushed-out pins – install new pins as necessary
- Connect Battery Current Sensor C3888 .
- Connect BCM (body control module) C2280F .
- Ignition ON.
- Using a diagnostic scan tool, clear all Diagnostic Trouble Codes (DTCs) in all modules.
- Using a diagnostic scan tool, perform the BCM (body control module) self-test.

Did the DTC (diagnostic trouble code) return?

Yes

For hybrid vehicles, REPAIR as necessary or INSTALL a new battery current sensor.

REFER to: [Battery Current Sensor](#)

(414-01 Battery, Mounting and Cables, Removal and Installation).

For 2Kw pickup bed power outlet, INSTALL a new Direct Current/Alternation Current (DC/AC)

inverter, REFER to: [Direct Current/Alternating Current \(DC/AC\) Inverter - Vehicles With: 110-120V 2kW Pickup Bed Power Outlet](#)

(414-05 Voltage Converter/Inverter, Removal and Installation).

CLEAR the Diagnostic Trouble Codes (DTCs). REPEAT the self-test. If the DTC (diagnostic trouble code) returns, GO to [D16](#)

No

The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

D16 VERIFY THE BATTERIES CONDITION

NOTE

No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.
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Sample

battery back to near full charge in a short amount of time such as allowing the vehicle to idle for 15 minutes to recharge the battery. Use an external charger to charge discharged batteries.

NOTE

Cold batteries will not readily accept a charge. Allow batteries to warm to approximately 5°C (41°F) before charging. This may require 4 to 8 hours at room temperature.

Charger Connected to a Chassis Ground - Preferred Method Primary Battery

NOTICE

Do not connect the negative (black) charger clamp directly to the battery monitoring sensor, it must be connected to an engine or chassis ground to relearn the battery's state of charge.

1. For hybrid vehicles, disconnect the auxiliary negative ground cable.
Refer to: [Battery Disconnect and Connect](#)(414-01 Battery, Mounting and Cables, General Procedures).
2. Connect the positive (red) charger clamp to the positive battery post.
3. Connect the negative (black) charger clamp to an engine or chassis ground.
4. Charge the battery following the battery charger manufacturer's instructions.

Charger Connected to Battery Posts

NOTICE

The battery monitoring sensor must relearn the battery's state of charge after charging, refer to Battery State of Charge in section 414-00.

5. Disconnect the battery.
Refer to: [Battery Disconnect and Connect](#)(414-01 Battery, Mounting and Cables, General Procedures).
6. Connect the positive (red) charger clamp to the positive battery post.
7. Connect the negative (black) charger clamp to the negative battery post.
8. Charge the battery following the battery charger manufacturer's instructions.

Auxiliary Battery(s)



Battery Disconnect and Connect - Electric

414-01 Battery, Mounting and Cables	2022 F-150
General Procedures	Procedure revision date: 03/8/2022

Battery Disconnect and Connect - Electric

Disconnect

NOTICE

Be careful not to damage the battery monitoring sensor when removing the terminal from the battery post. Do not pry on the terminals or component damage may occur.

NOTE

When the battery is disconnected and connected, some abnormal drive symptoms may occur while the vehicle relearns its adaptive strategy. The vehicle may need to be driven to allow the PCM (powertrain control module) to relearn the adaptive strategy values.

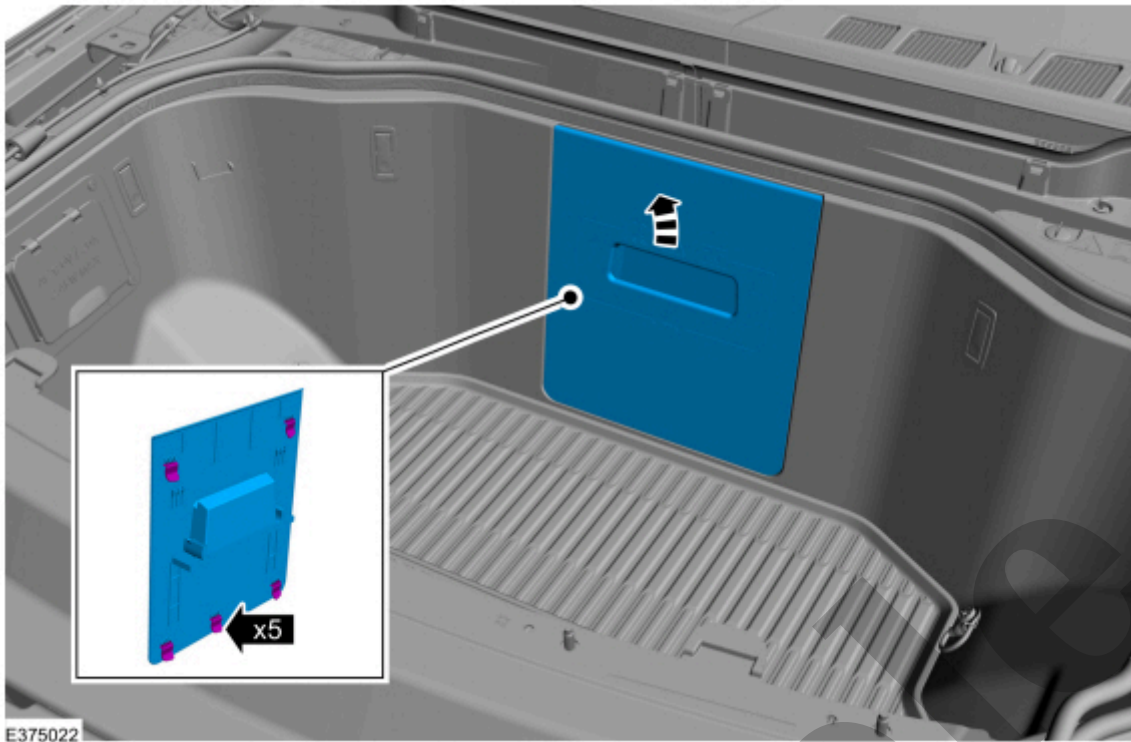
NOTE

When disconnecting the battery to interrupt power to the vehicle electrical system, disconnect the battery ground cable(s). It is not necessary to disconnect the positive battery cable(s).

NOTE

Removal steps in this procedure may contain installation details.

1. De-energize the high voltage battery.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

4. NOTICE

Make sure the positive battery terminal cover is in position while removing the negative battery cable clamp to prevent damage from a short to the positive terminal.

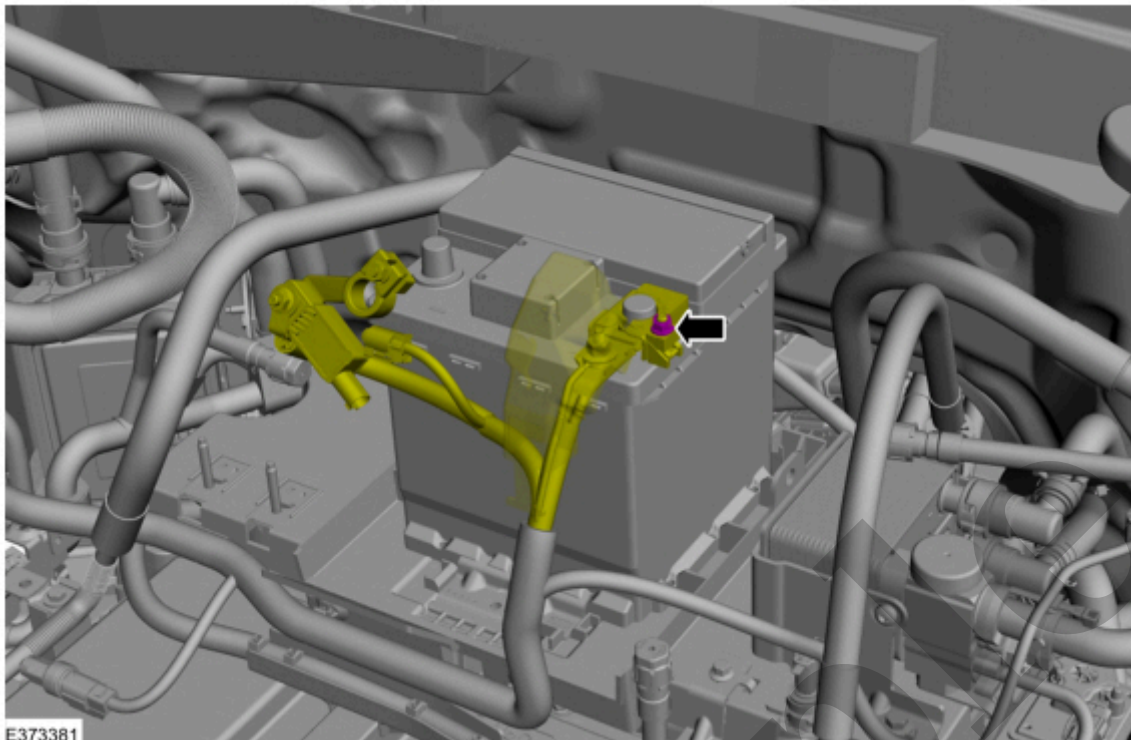
NOTICE

Be careful not to damage the sensor when removing the terminal from the battery post. Do not pry on the terminals or component damage may occur.

- Disconnect and position the electrical connector aside.
- Loosen, but do not remove the nut and position the negative battery cable aside.

Torque : 55 lb.in (6.2 Nm)

Torque : 55 lb.in (6.2 Nm)



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

Connect

1. To install, reverse the removal procedure.
2. If equipped with one-touch up and one-touch down feature, perform the window motor initialization.

Refer to: [Power Door Window Initialization](#)(501-11 Glass, Frames and Mechanisms, General Procedures).

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1. NOTICE

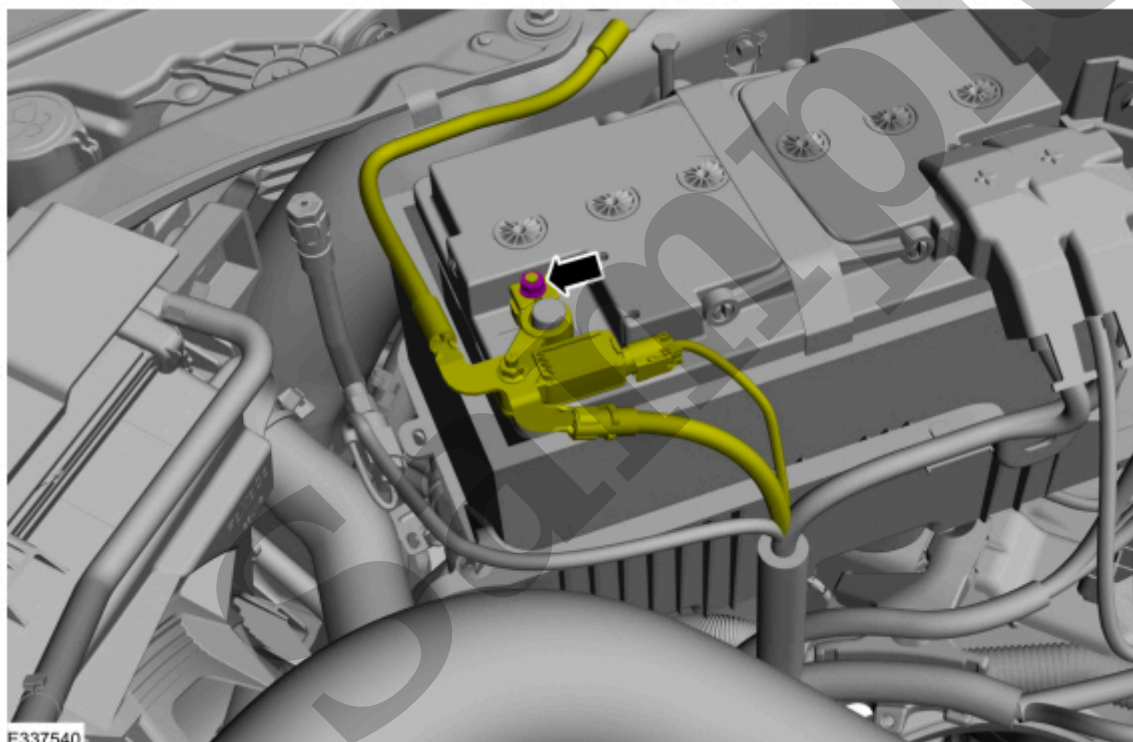
Make sure the positive battery terminal cover is in position while removing the negative battery cable clamp to prevent damage from a short to the positive terminal.

NOTICE

Be careful not to damage the battery monitoring sensor when removing the terminal from the battery post. Do not pry on the terminals or component damage may occur.

Loosen, but do not remove the nut. Position the negative battery cable aside.

Torque : 55 lb.in (6.2 Nm)



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2. Position the positive battery cable terminal cover aside.

Hybrid Vehicles

NOTICE

If equipped, vehicles with an auxiliary battery(s) must be disconnected in addition to the main 12 volt battery to remove the 12 voltage from the vehicle or vehicle damage may occur.

4. NOTICE

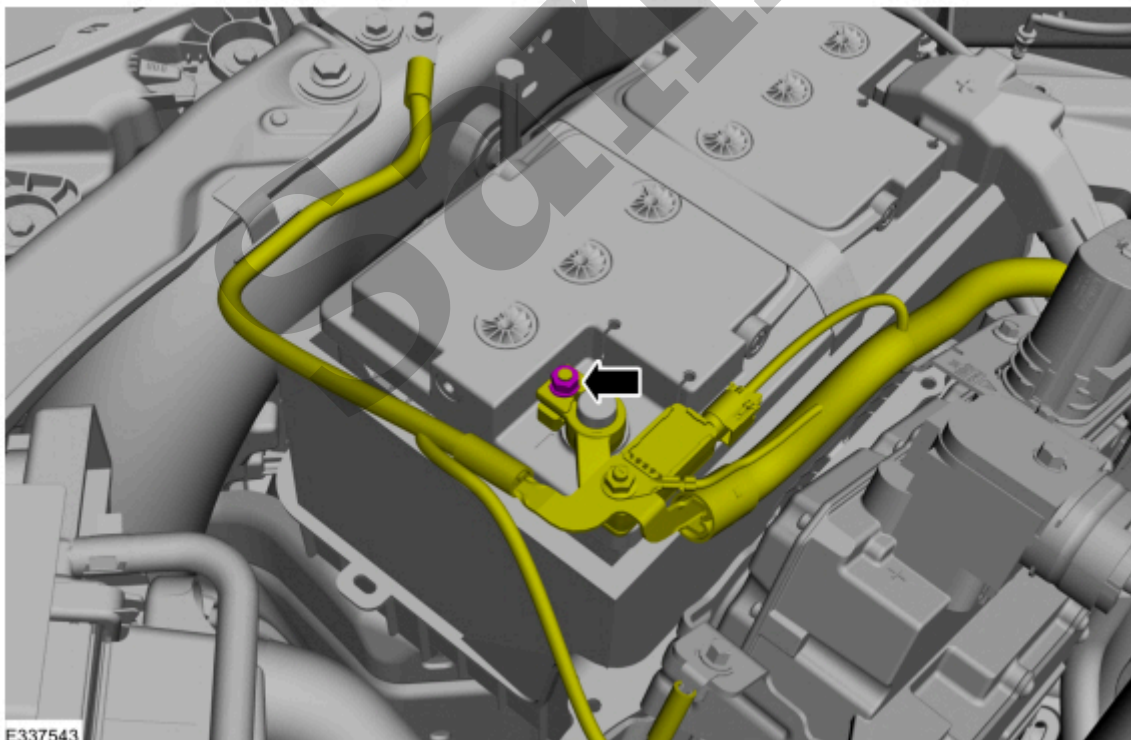
Make sure the positive battery terminal cover is in position while removing the negative battery cable clamp to prevent damage from a short to the positive terminal.

NOTICE

Be careful not to damage the battery monitoring sensor when removing the terminal from the battery post. Do not pry on the terminals or component damage may occur.

Loosen, but do not remove the nut. Position the negative battery cable aside.

Torque : 55 lb.in (6.2 Nm)

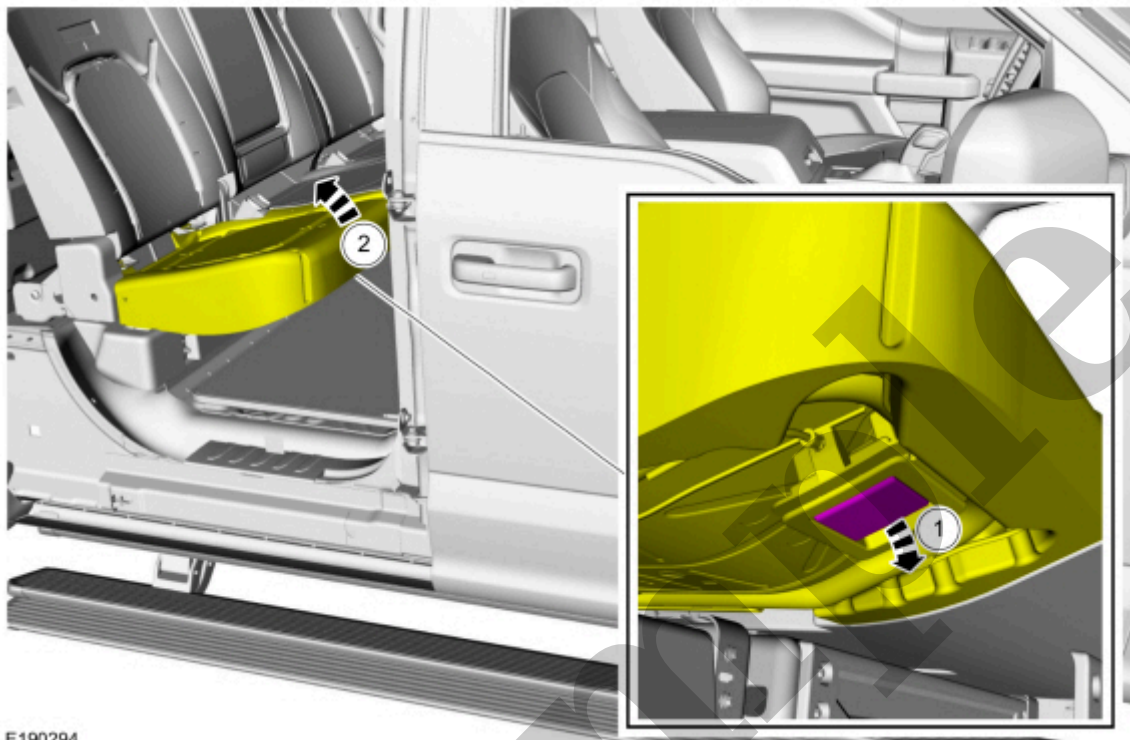


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Hybrid Vehicles with an auxiliary battery

7.
 1. Release the RH (right-hand) rear seat cushion latch.
 2. Position the RH (right-hand) rear seat cushion.



E190294

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8. Release the taps, clips and position aside the cover.