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2015 FORD Ka OEM Service and Repair Workshop Manual

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NOTE

Calibration files can be obtained at www.motorcraft.com

If replacing the high voltage battery, use the diagnostic scan tool and start a new vehicle session. Reprogram the PCM (powertrain control module) using the latest FDRS (Ford Diagnosis and Repair System) software release.

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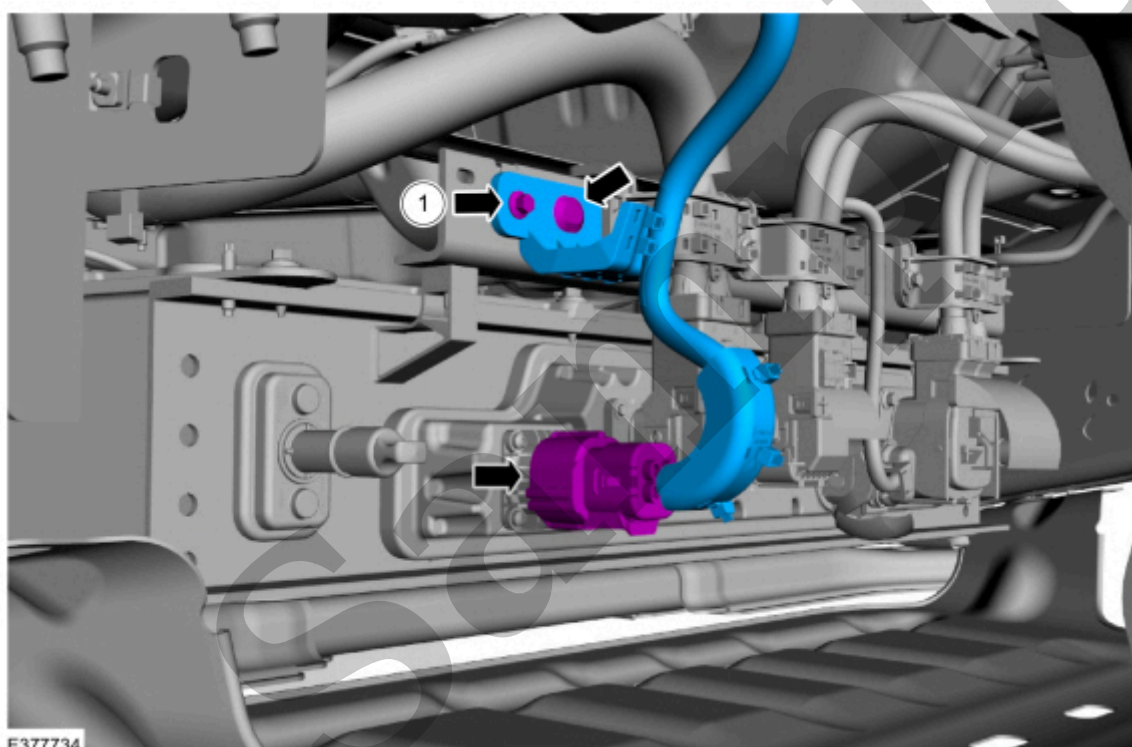
3. NOTICE

High voltage electrical connectors may require unique methods to be disconnected. If not properly disconnected, component damage may occur.

Refer to: [High Voltage Connector Disconnect and Connect](#)(414-03A High Voltage Battery, Mounting and Cables, General Procedures).

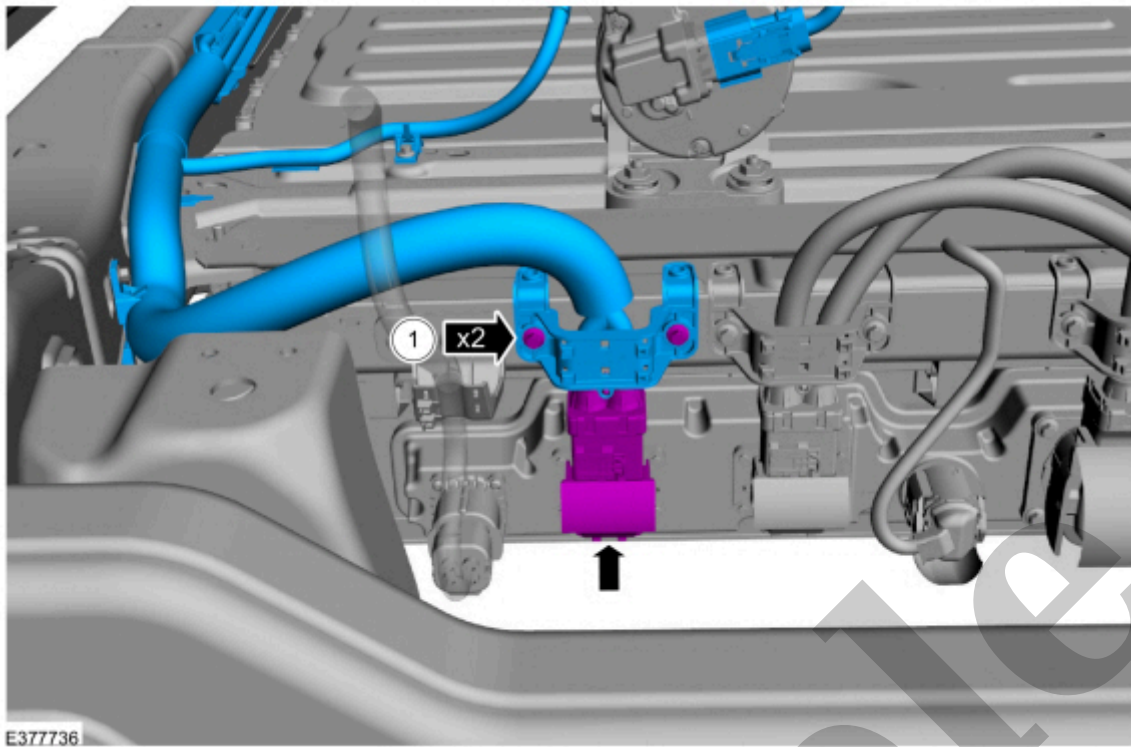
High Voltage Battery to DC/DC (Direct Current/Direct Current) Converter Control Module, SOBDM (Secondary On-Board Diagnostic Control Module A), Cabin Coolant Heater and ACCM (Air Conditioning Control Module) Cable

4. 1. **Torque** : 71 lb.in (8 Nm)



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

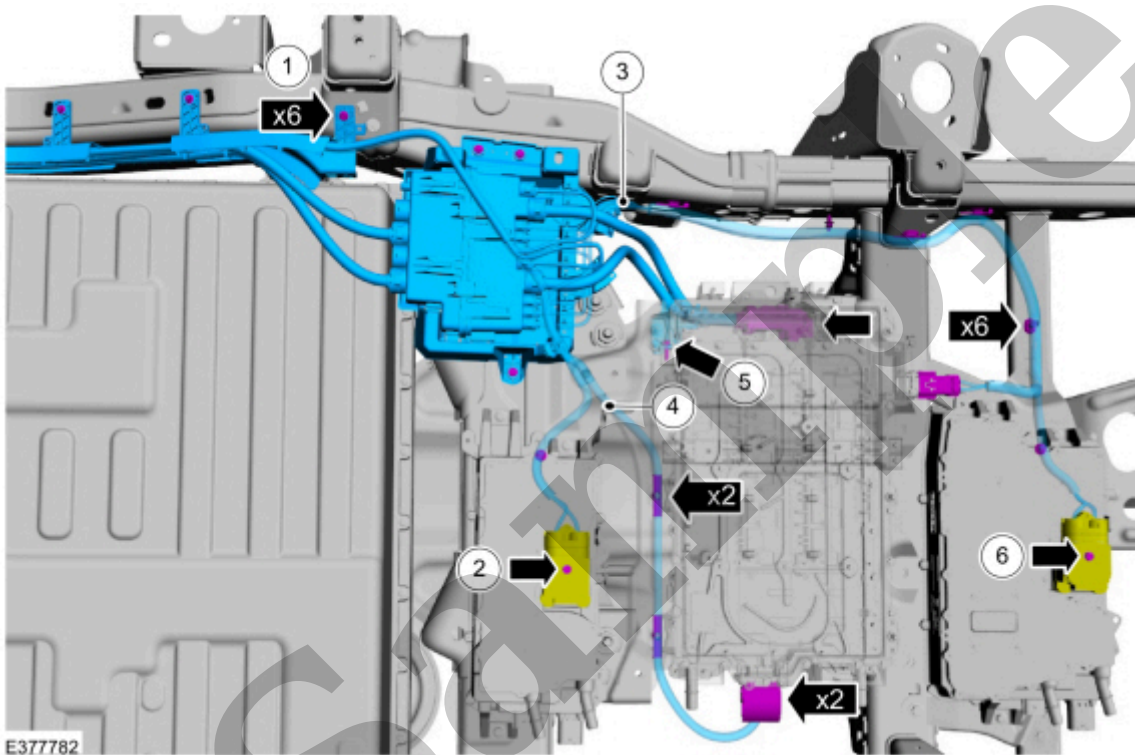
5. 1. **Torque** : 18 lb.ft (25 Nm)
2. **Torque** : 71 lb.in (8 Nm)
3. **Torque** : 93 lb.in (10,5 Nm)
4. **Torque** : 17 lb.ft (22.5 Nm)



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

7.
 1. Vehicles with max trailer tow
 2. **Torque** : 106 lb.in (12 Nm)
 3. **Torque** : 106 lb.in (12 Nm)
 4. **Torque** : 71 lb.in (8 Nm)
 5. Vehicles with secondary Battery Charger Control Module (BCCM)

9. 1. **Torque** : 71 lb.in (8 Nm)
2. **Torque** : 93 lb.in (10.5 Nm)
3. Vehicles with secondary Battery Charger Control Module (BCCM) and 7.2kW DCACB (Direct Current/Alternating Current Converter Module B)
4. Vehicles with secondary Battery Charger Control Module (BCCM)
5. **Torque** : 71 lb.in (8 Nm)
6. **Torque** : 93 lb.in (10.5 Nm)

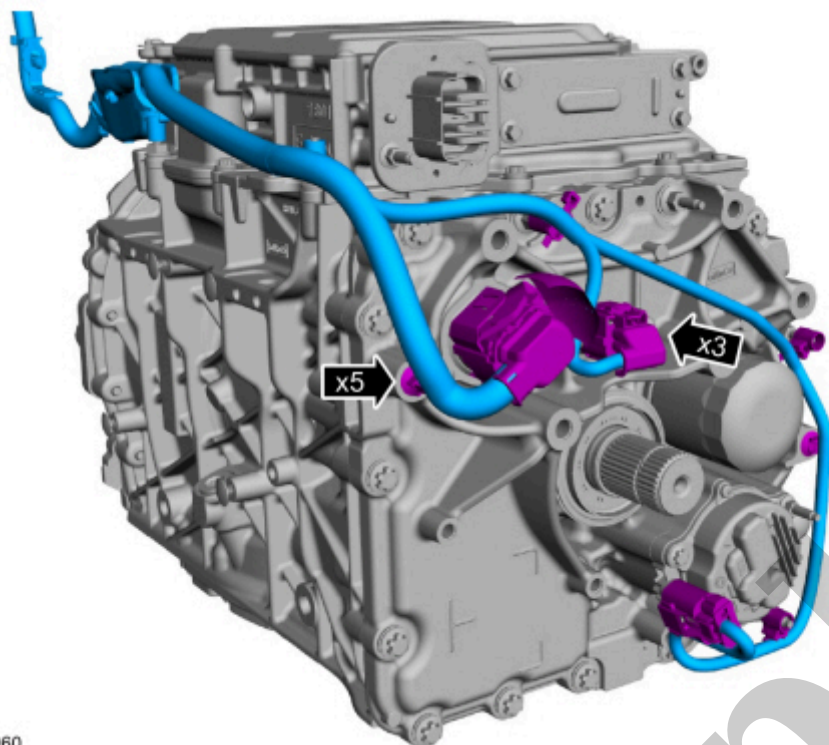


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High Voltage Battery to Inverter System Controller (SOBDMB) Cable

10. 1. **Torque** : 71 lb.in (8 Nm)

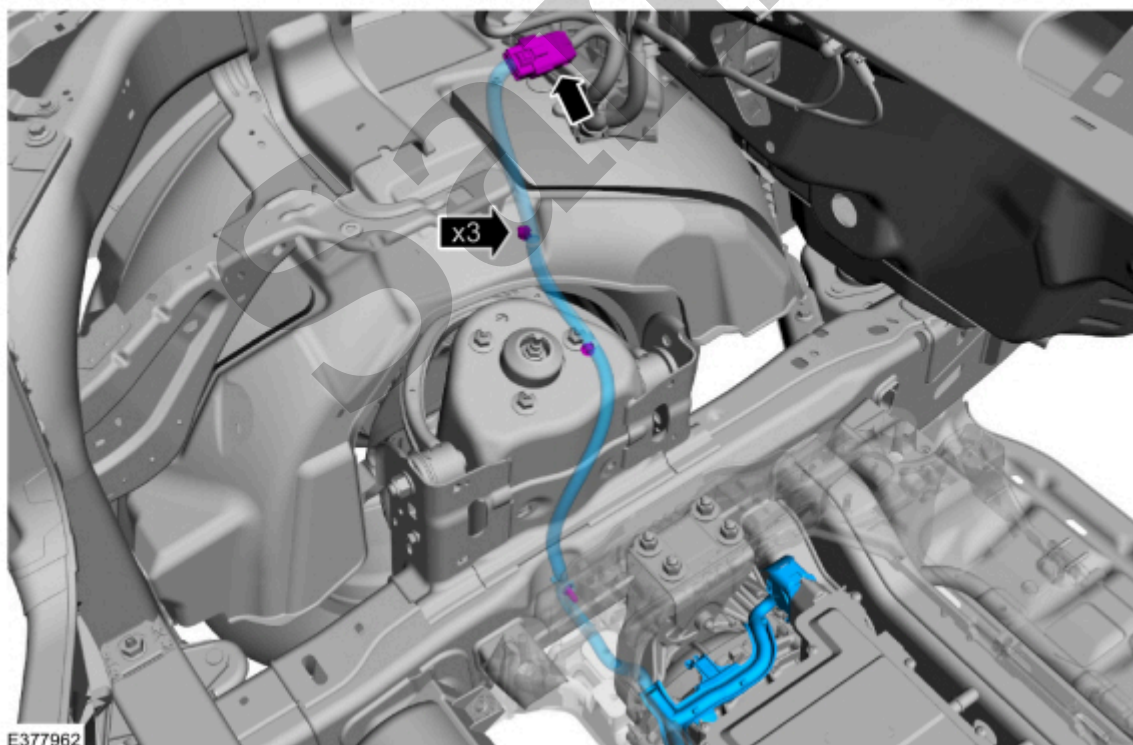
12.



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13.

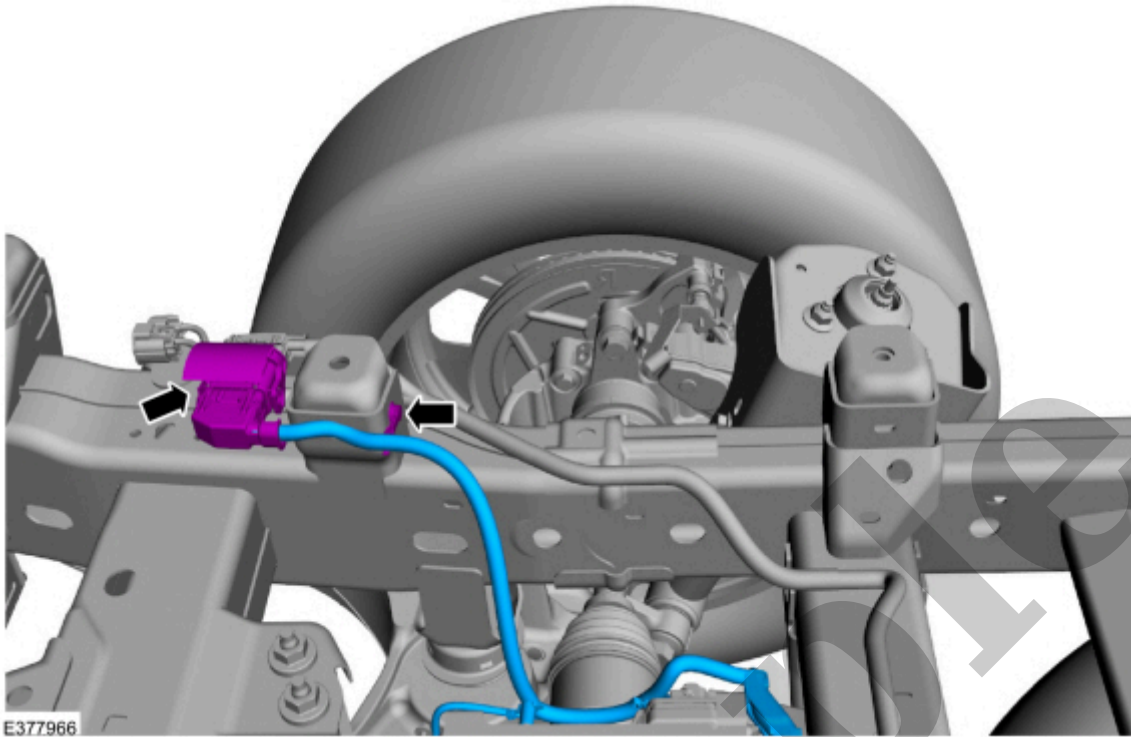


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[Click here to learn about symbols, color coding, and icons used in this manual.](#)

16.



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Installation

1. To install, reverse the removal procedure.

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Refer to: [High Voltage System Health and Safety Precautions - Overview](#)(100-00 General Information, Description and Operation).

2. De-energize the high voltage system.

Refer to: [High Voltage System De-energizing - Full Hybrid Electric Vehicle \(FHEV\)](#)(414-03A High Voltage Battery, Mounting and Cables, General Procedures).

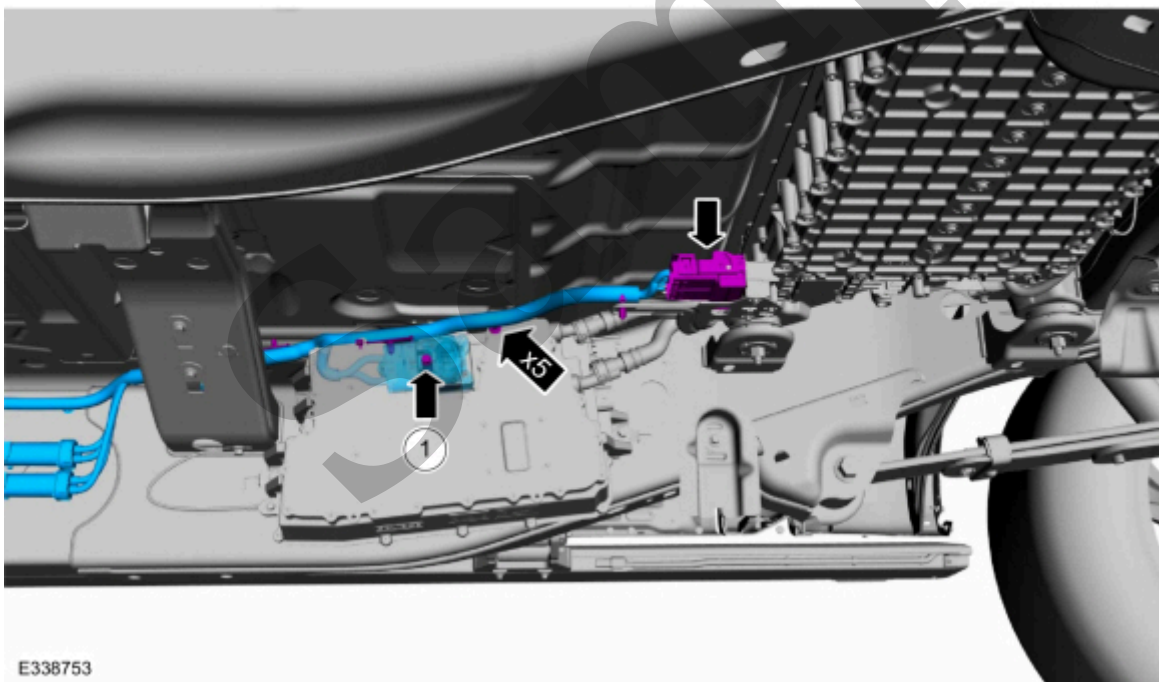
3. NOTICE

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High Voltage Battery Cable

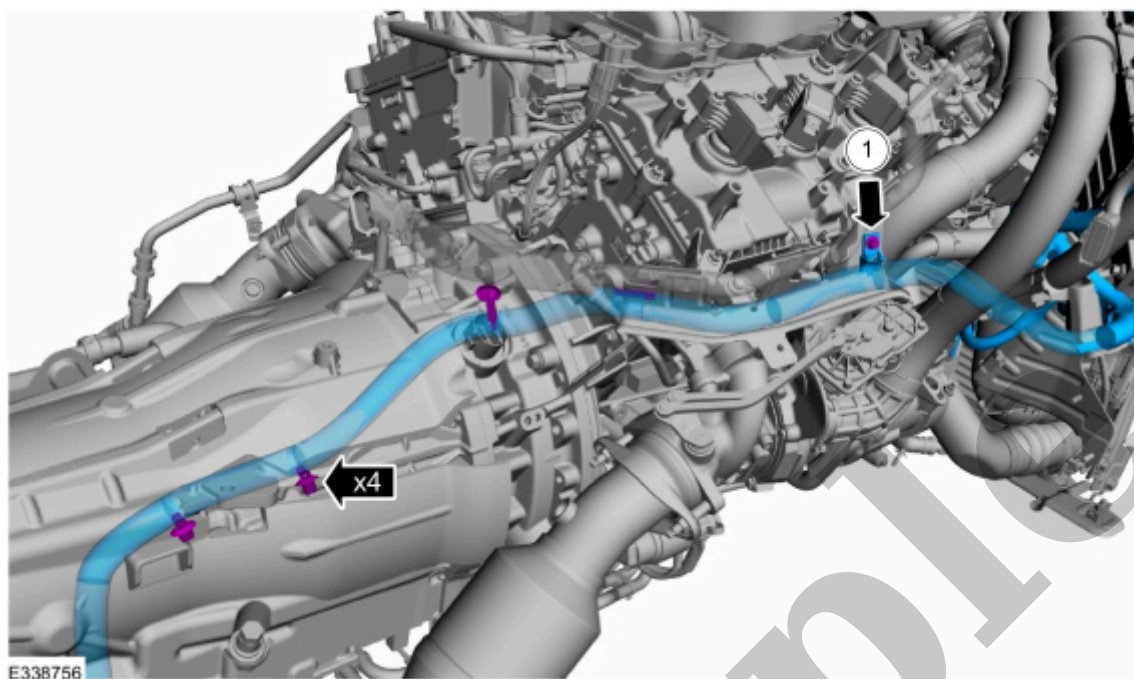
4. 1. **Torque** : 93 lb.in (10.5 Nm)



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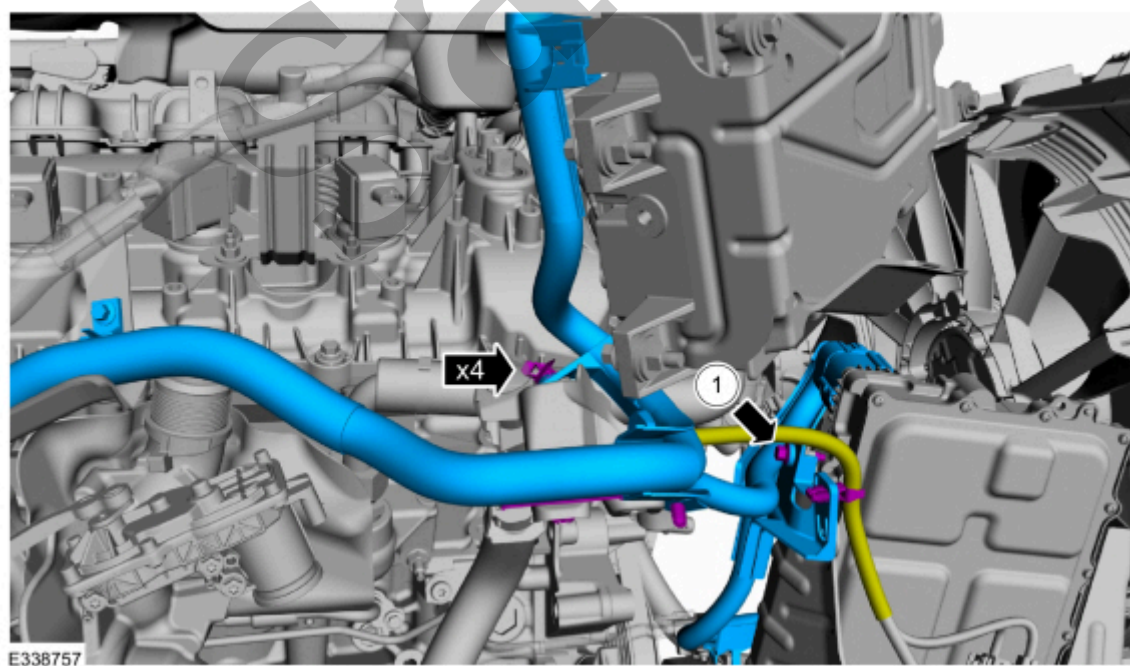
5. 1. **Torque** : 71 lb.in (8 Nm)

7. 1. **Torque** : 71 lb.in (8 Nm)



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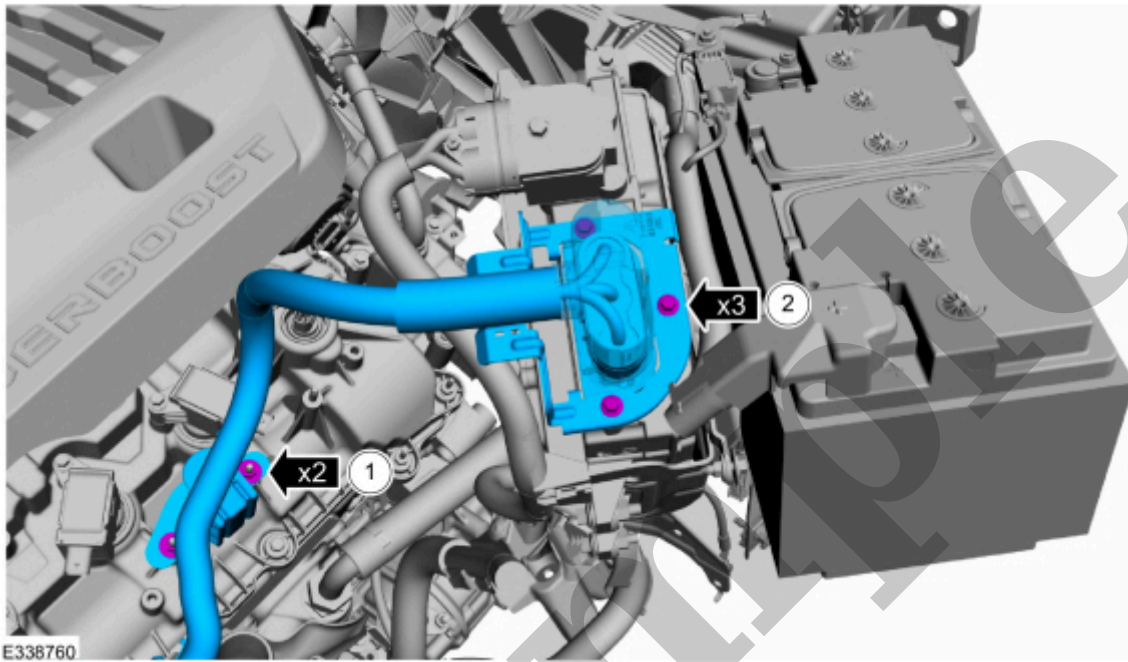
8. 1. **Torque** : 71 lb.in (8 Nm)



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Electric Motor 3 phase AC (Alternating Current) Cable

11. 1. **Torque** : 71 lb.in (8 Nm)
2. **Torque** : 93 lb.in (10.5 Nm)



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12.