

Removal

⚠ WARNING

Be sure to read and follow the "General Safety Information and Caution" before doing any work related with the high voltage system. Failure to follow the safety instructions may result in serious electrical injuries.

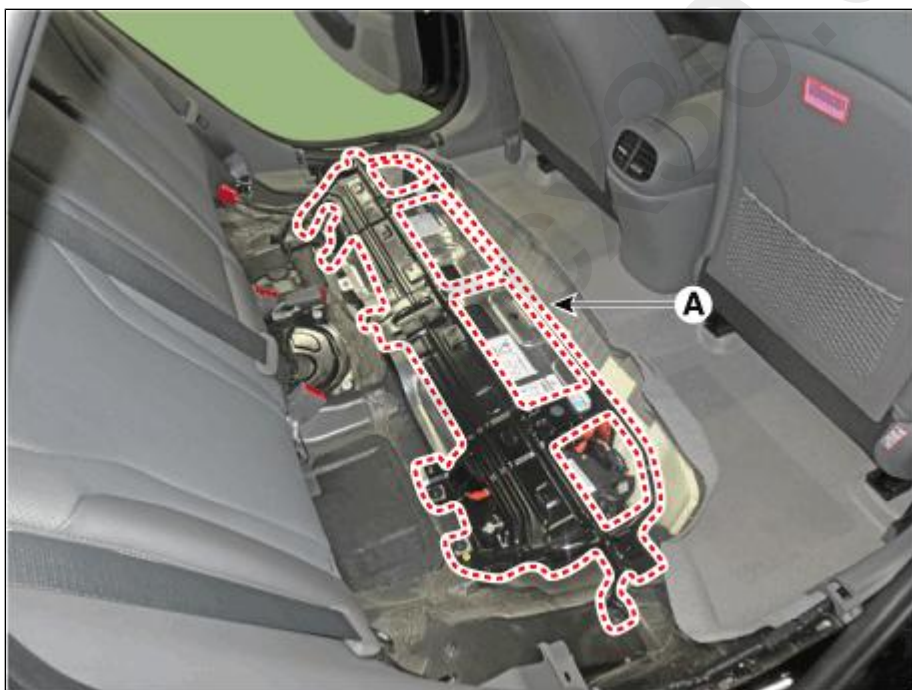
Be sure to read and follow the "High Voltage Shut-off Procedures" before doing any work related with the high voltage system. Failure to follow the safety instructions may result in serious electrical injuries.

1. Shut off the high voltage circuit.
(Refer to Hybrid Control System - "High Voltage Shut-Off Procedures")
2. Remove the rear seat cushion assembly.
(Refer to Body (Interior and Exterior) - "Rear Seat Assembly")
3. Remove the rear door scuff trim.
(Refer to Body (Interior and Exterior) - "Door Scuff Trim")
4. Remove the inlet duct.
(Refer to High Voltage Battery Cooling System - "Cooling Duct")
5. Remove the outlet duct.
(Refer to High Voltage Battery Cooling System - "Cooling Duct")
6. Remove the upper frame (A).

Tightening torque :

Bolts : 19.6 - 29.4 N.m (2.0 - 3.0 kgf.m, 14.5 - 21.7 lb.ft)

Nuts : 7.8 - 11.8 N.m (0.8 - 1.2 kgf.m, 5.8 - 8.7 lb.ft)

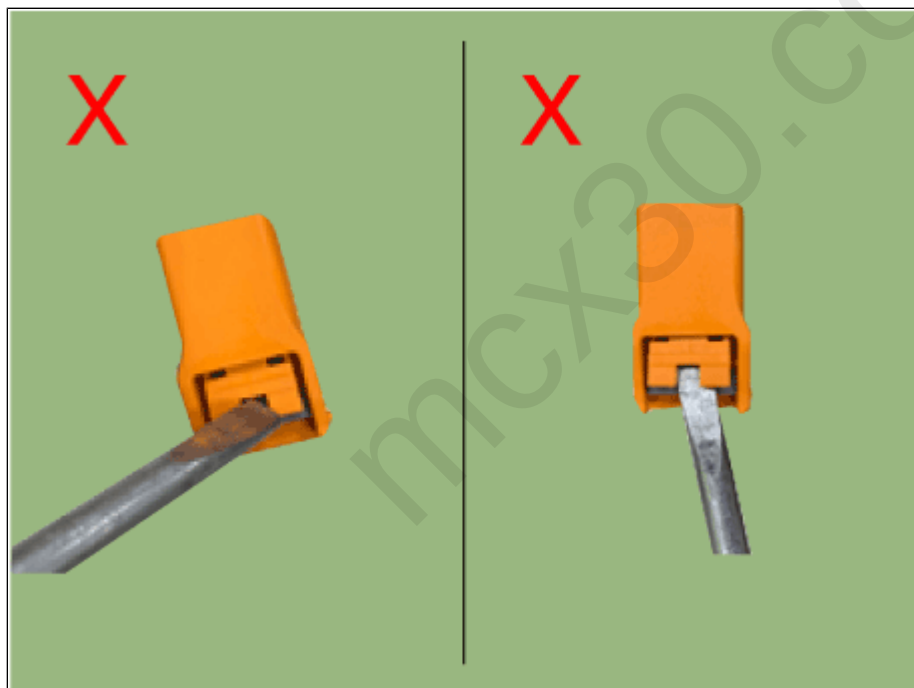


7. Disconnect the high voltage (-) connector (A) and high voltage (+) connector (B) and 12V output connector (C).

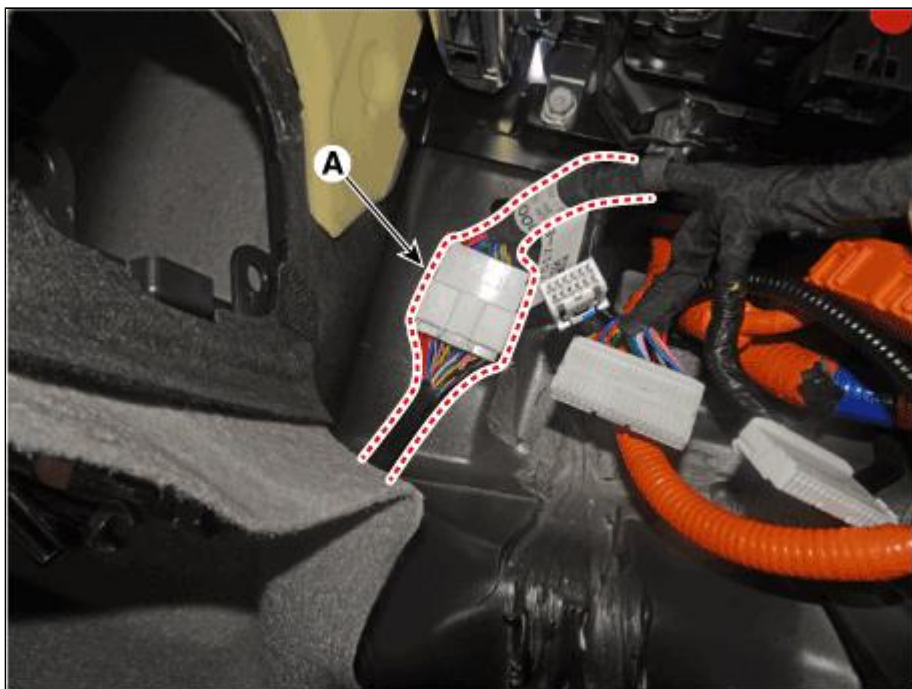


NOTICE

Be careful not to damage the connector when disconnecting the high voltage connector.
Do not use a flat head screwdriver that does not fit into the CPA groove.
Do not lift the connector removal knob.



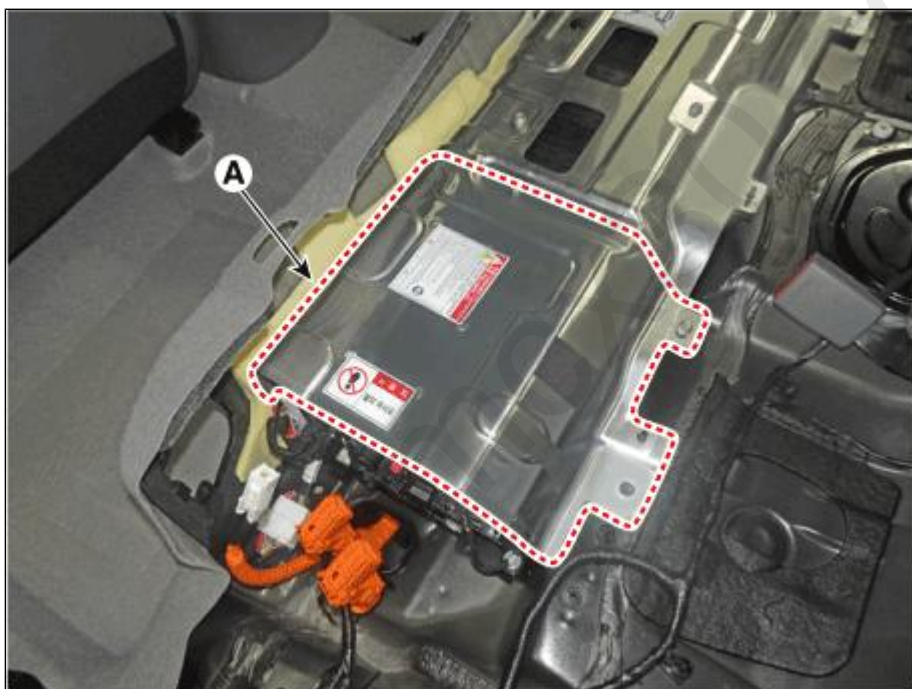
8. Disconnect the BMS extension connector (A).



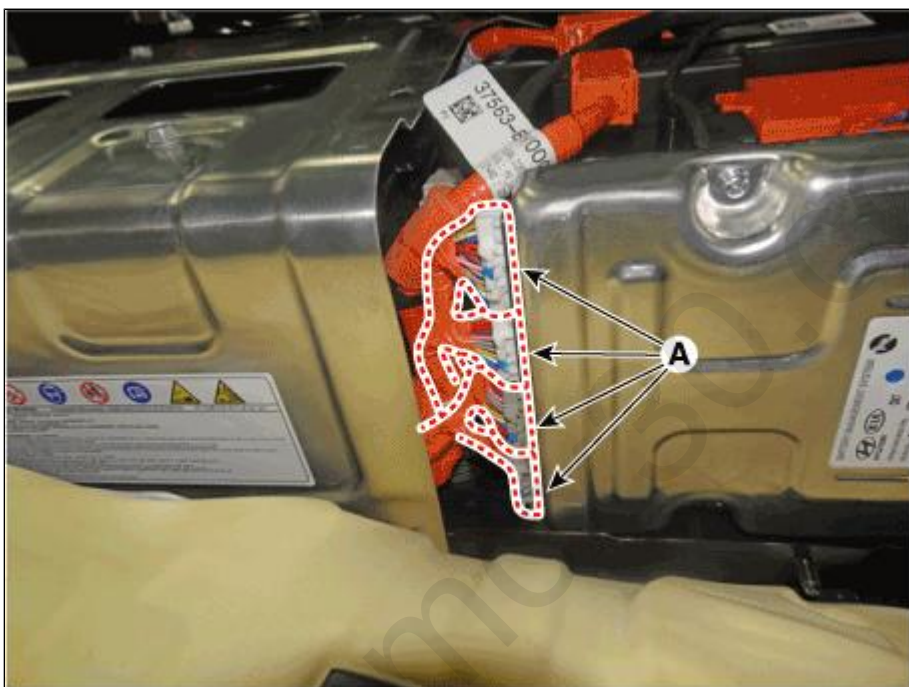
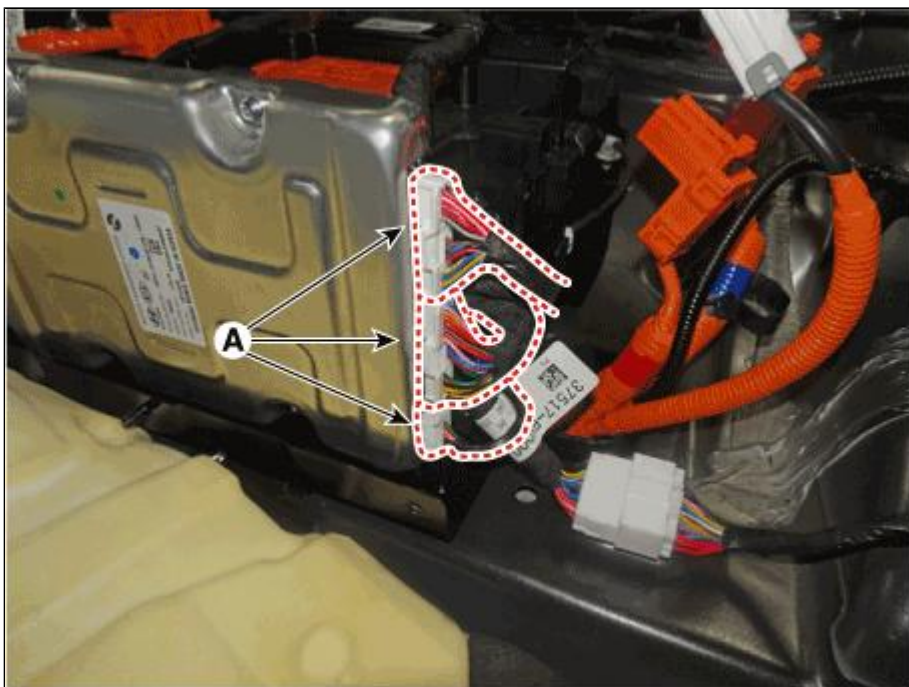
9. Remove the high voltage battery rear cover (A).

Tightening torque :

7.8 - 11.8 N.m (0.8 - 1.2 kgf.m, 5.8 - 8.7 lb.ft)



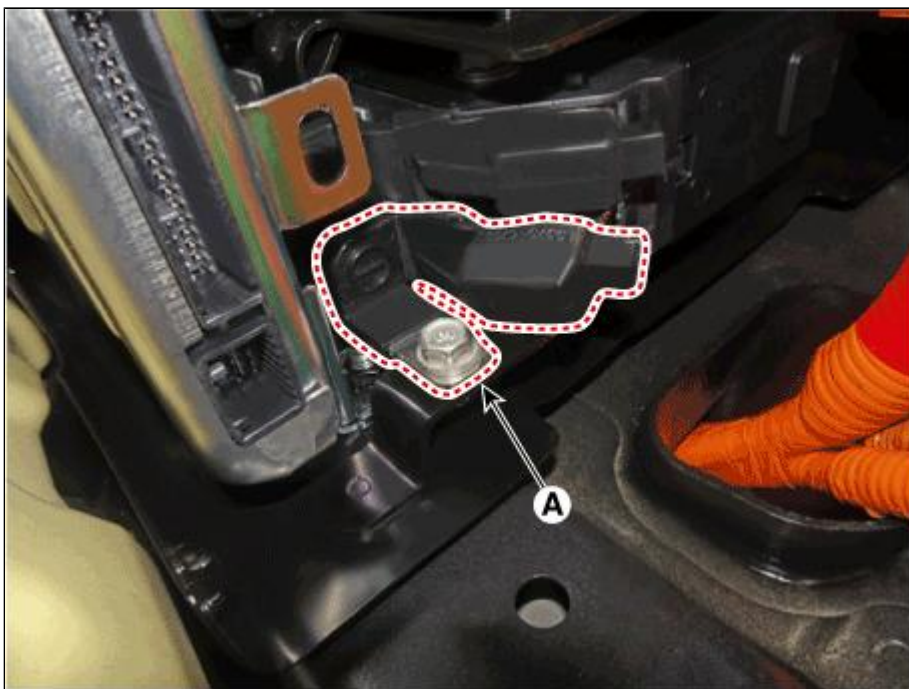
10. Disconnect the BMS connectors (A).



11. Remove the 12V battery (-) busbar (A).

Tightening torque :

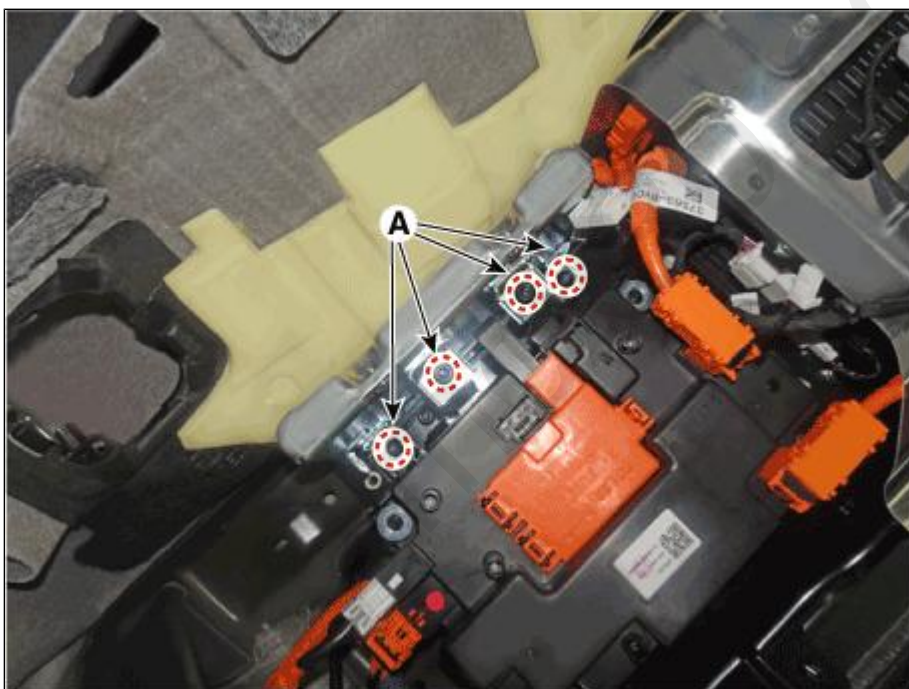
7.8 - 11.8 N.m (0.8 - 1.2 kgf.m, 5.8 - 8.7 lb.ft)



12. Remove the BMS mounting nuts (A).

Tightening torque :

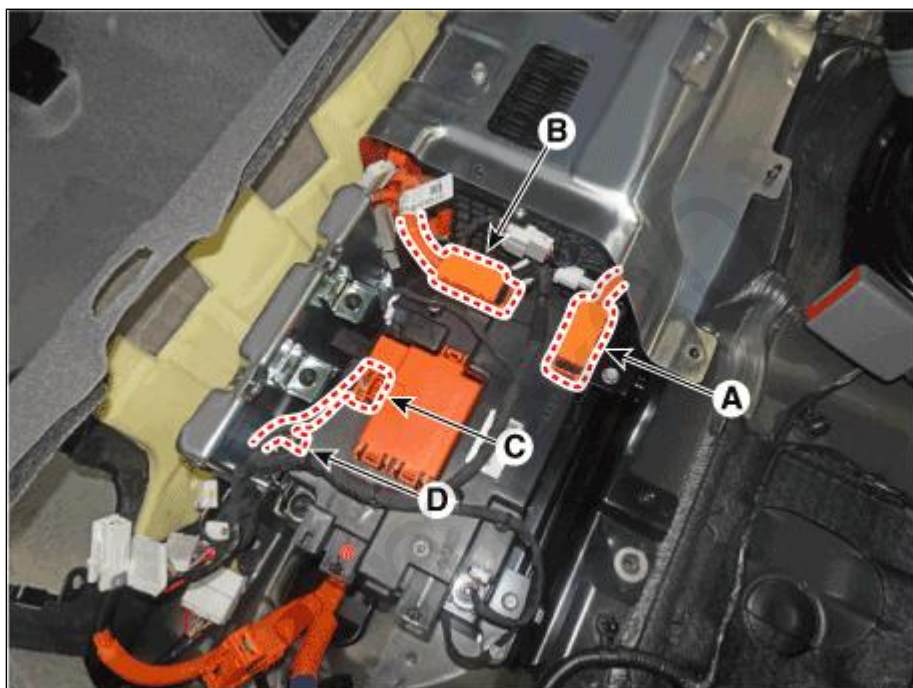
7.8 - 11.8 N.m (0.8 - 1.2 kgf.m, 5.8 - 8.7 lb.ft)



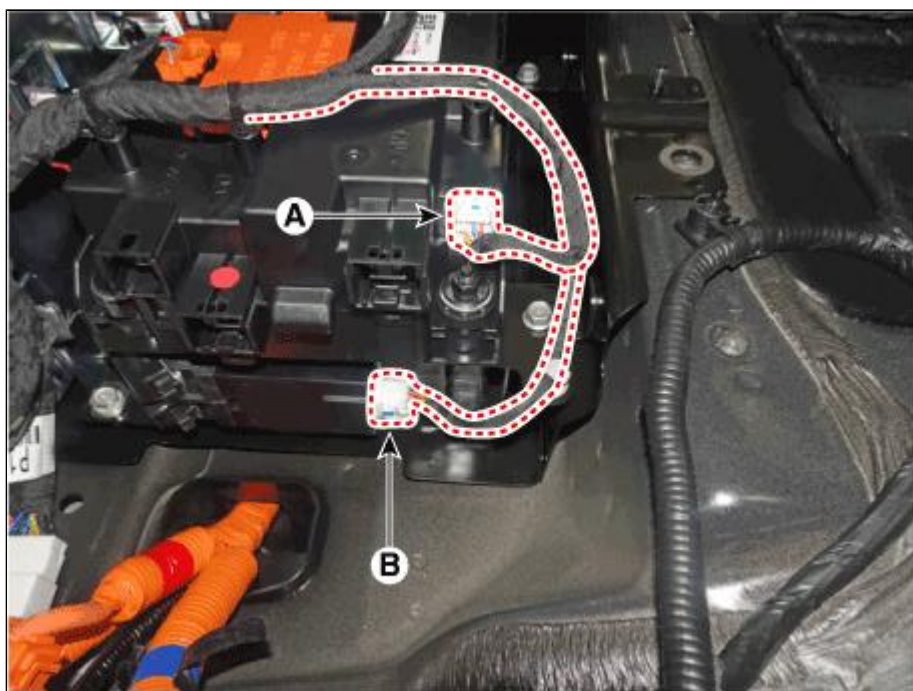
13. Remove the BMS (A).



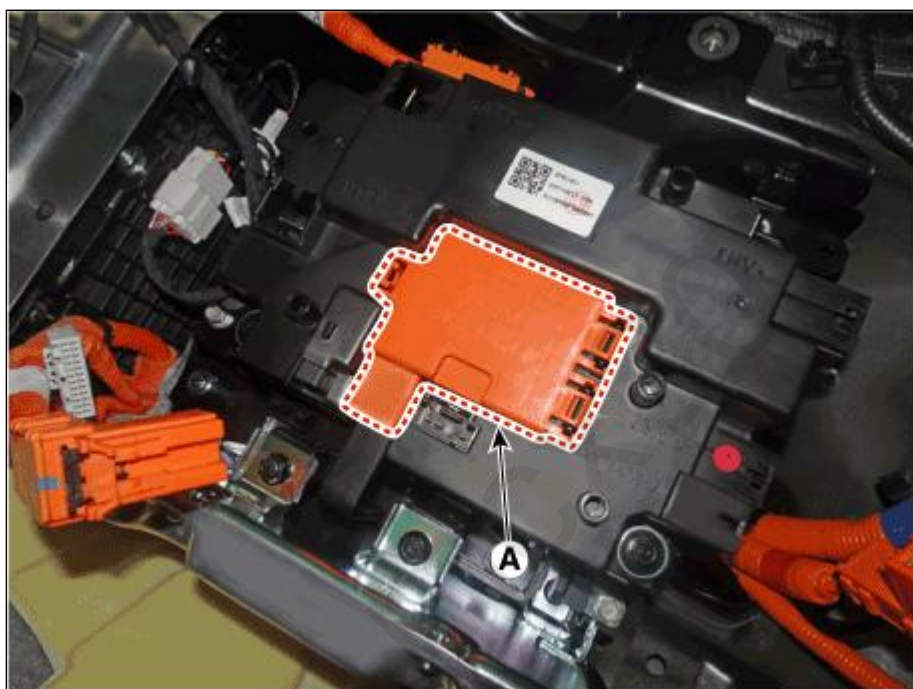
14. Disconnect the (-) high voltage power cable connector (A) and (+) high voltage power cable connector (B).
15. Disconnect the 12V battery output connector (C) and low voltage relay control connector (D).



16. Disconnect the high voltage relay control connector (A) and 12V battery module connector (B).



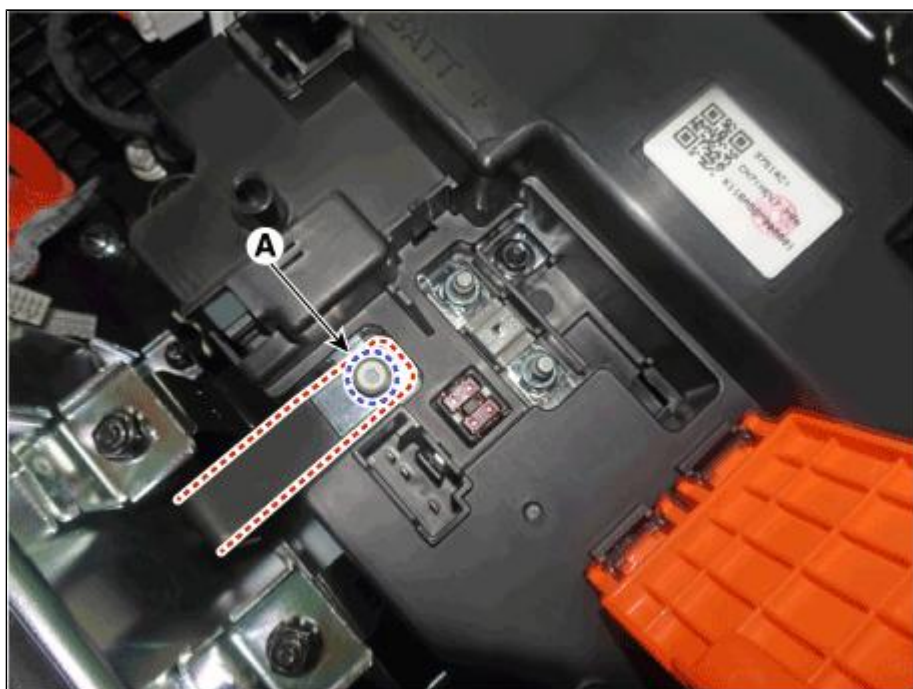
17. Open the fuse cover (A).



18. Remove the 12V battery (+) busbar mounting bolt (A).

Tightening torque :

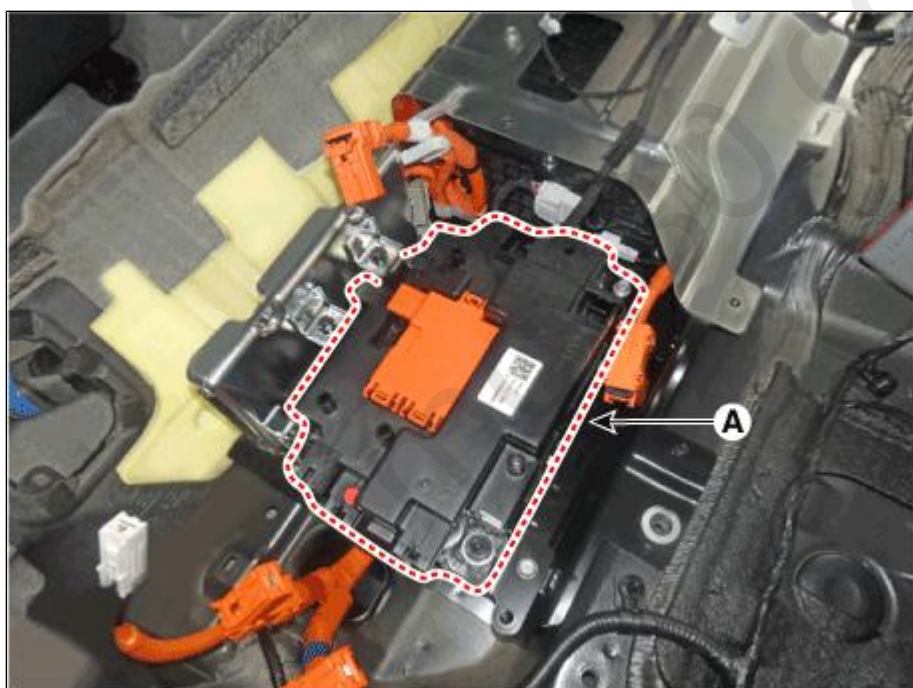
7.8 - 11.8 N.m (0.8 - 1.2 kgf.m, 5.8 - 8.7 lb.ft)



19. Remove the power relay assembly (PRA) (A).

Tightening torque :

7.8 - 11.8 N.m (0.8 - 1.2 kgf.m, 5.8 - 8.7 lb.ft)



NOTICE

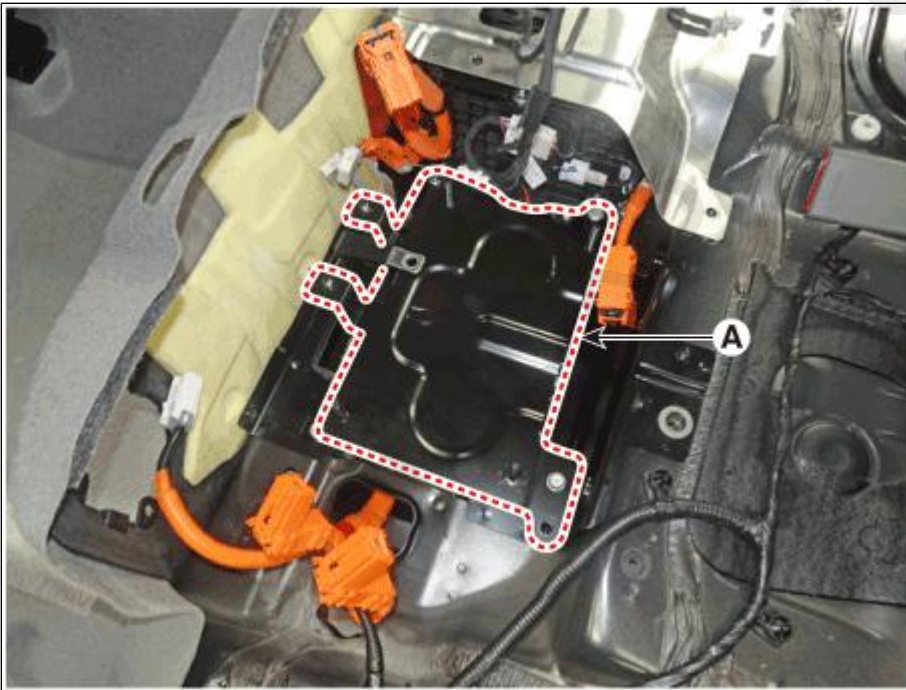
When removing the power relay assembly (PRA), disconnect the current sensor connector (A).



20. Remove the power relay assembly (PRA) bracket (A).

Tightening torque :

7.8 - 11.8 N.m (0.8 - 1.2 kgf.m, 5.8 - 8.7 lb.ft)



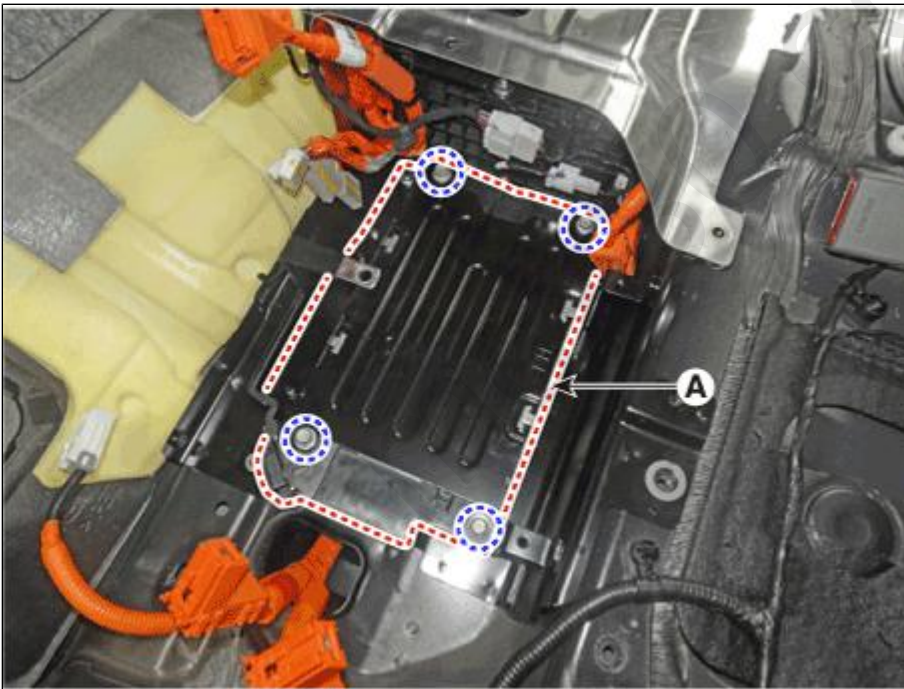
21. Remove the 12V battery temperature sensor (A).



22. Remove the 12V battery module (A).

Tightening torque :

7.8 - 11.8 N.m (0.8 - 1.2 kgf.m, 5.8 - 8.7 lb.ft)





Installation

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1. Install in the reverse order of removal.

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