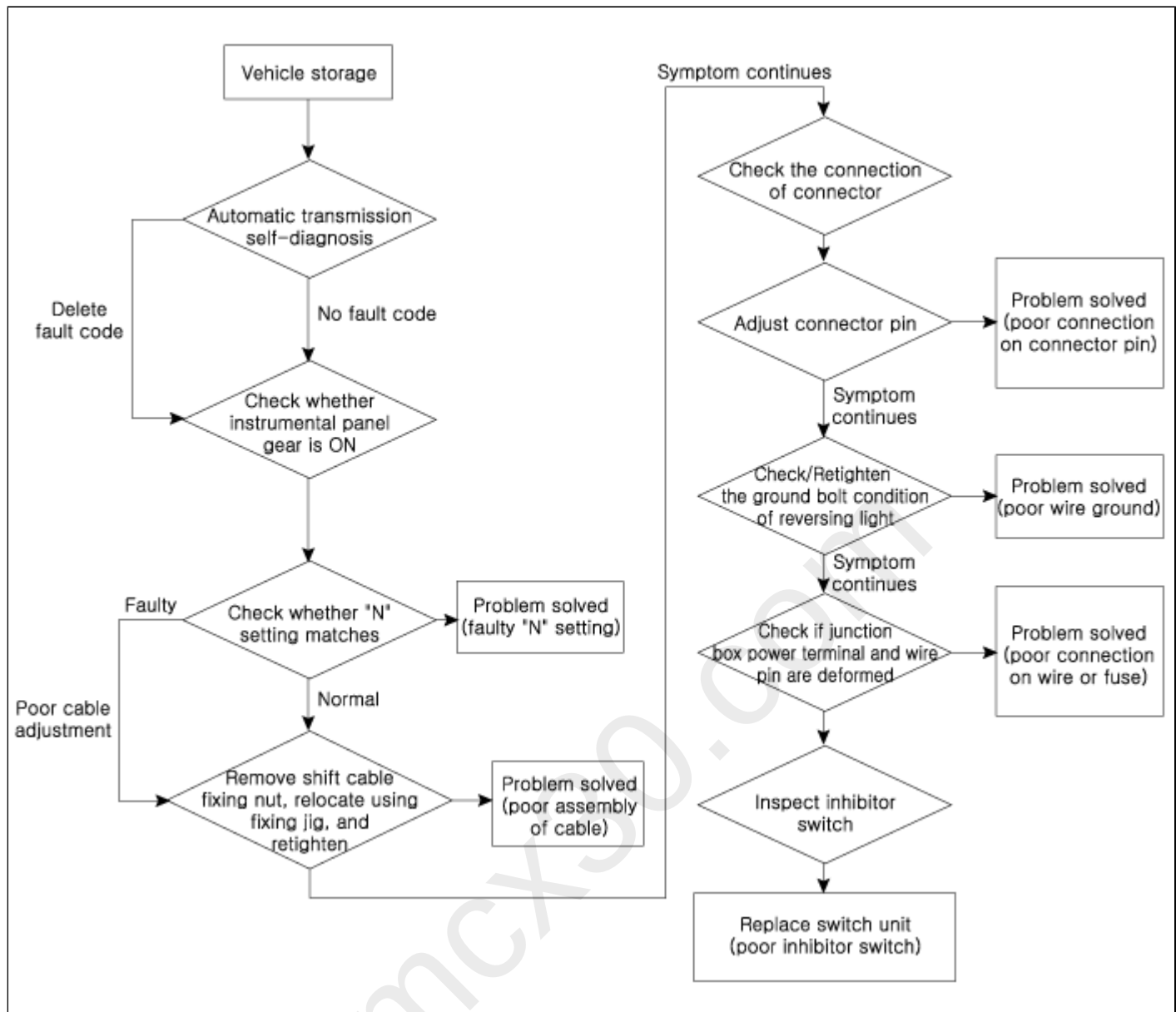


Inspection

Inspection flow



Items to check

1. Inspect DTC code.
2. Inspect whether N setting matches.
Adjust N setting (Refer to Dual Clutch Transmission Control System - "Inhibitor Switch").
3. Inspect shift cable separation.
Adjust shift cable separation (Refer to Dual Clutch Transmission Control System - "Inhibitor Switch").
4. Inspect whether connector is connected.
Inspect connector thoroughly for looseness, poor connection, bending, corrosion, contamination, deformation, or damage.
Turn ignition key "ON" and engine "OFF" and measure the power supplied to inhibitor switch circuit and voltage between ground.

Specification : approx. 12 V

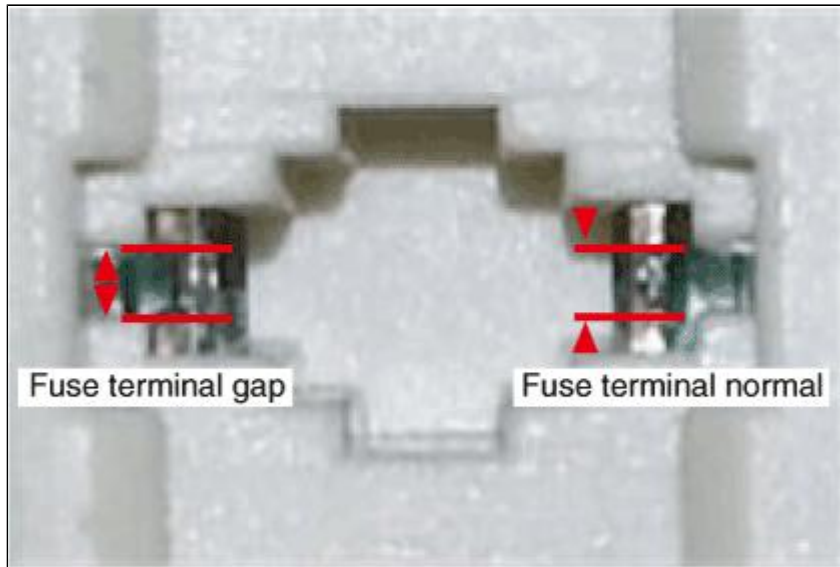
Fix the pin wiring when connector pin wiring is faulty (Refer to ETM - "Wiring Repair").

5. Inspect ground condition on reversing light circuit.
Check the ground location of reversing light (Refer to ETM - "Harness Location Map").

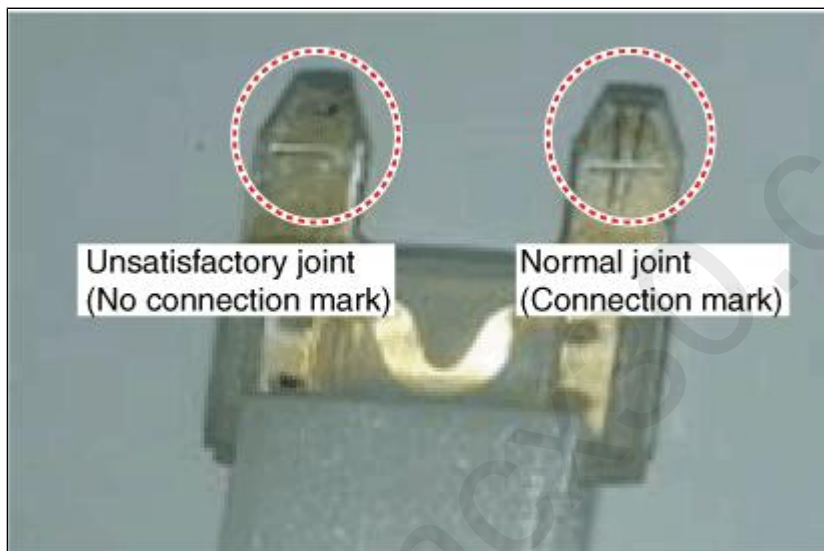
Reattach reversing light if ground condition is faulty.

6. Inspect wiring connection on junction box power terminal and fuse lamp.

Check whether fuse holder is separated and holder is holding the fuse tight.



Attach tester fuse to check if it is connected appropriately.



Check whether fuse capacity is appropriate for each circuit.

Check if fuse is damaged.

Check pulling of fuse fixing wiring, inflow of foreign substance, and arrangement condition of terminal.

Relocate the terminal that has been pulled and inspect using the method explained above.

When problem is not solved, refer to the circuit diagram wiring repair instructions to fix or replace the terminal.

7. Inspect inhibitor switch signal.

Turn ignition key "ON" and engine "OFF".

Measure the voltage between each terminal and chassis ground when shifting lever to "P, R, N, D" range.

Specified value: refer to specification "signal code" table

Removal

⚠ WARNING

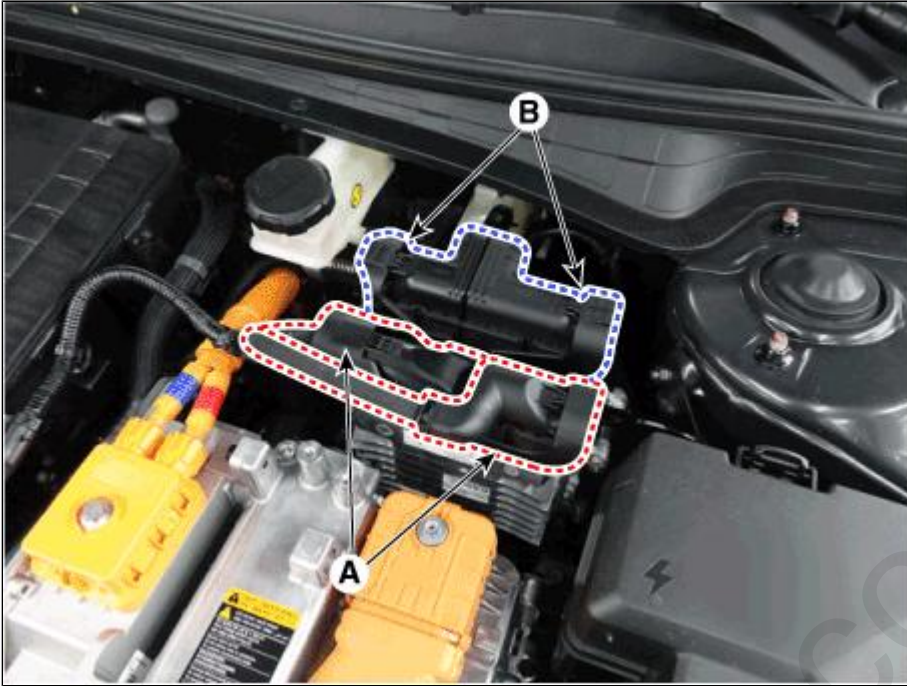
Be sure to read and follow the "General Safety Information and Caution" before doing any work related with the high voltage system. Failure to follow the safety instructions may result in serious electrical injuries.

NOTICE

Use fender covers to avoid damaging painted surfaces.

To avoid damage, unplug the wiring connectors carefully while holding the connector portion.

1. Shut off the High Voltage circuit.
(Refer to General Information - "High Voltage Shutoff Procedure")
2. Disconnect the TCM connector (A) and ECM connector (B).



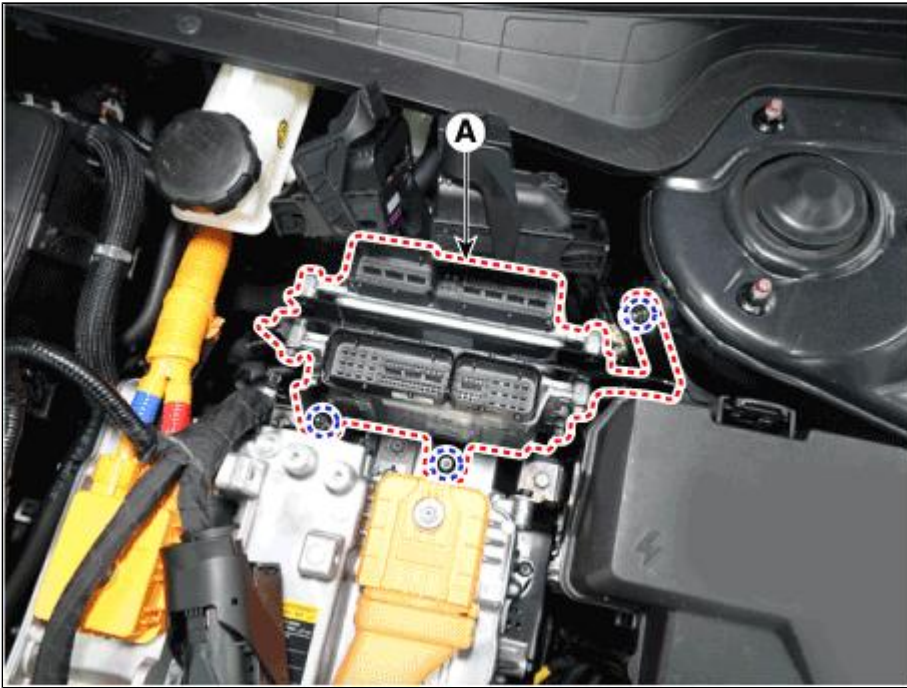
3. Separate the wiring clip (A).



4. Loosen the nuts and then removing the TCM & ECM bracket assembly (A).

Tightening torque :

9.8 - 11.8 N.m (1.0 - 1.2 kgf.m, 7.2 - 8.7 lb-ft)



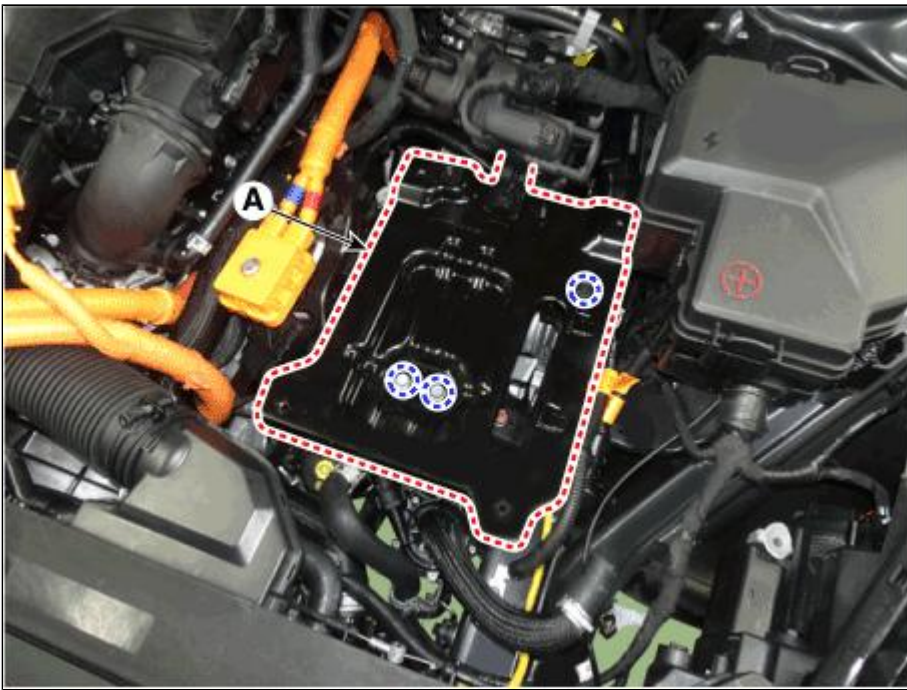
5. Remove the HPCU(Hybrid Power Control Unit).
(Hybrid Control System - "HPCU (Hybrid Power Control Unit)")
6. Separate the wiring clip (A).



7. Loosen the mounting bolts and the clips and then removing the HPCU tray (A).

Tightening torque :

9.8 - 11.8 N.m (1.0 - 1.2 kgf.m, 7.2 - 8.7 lb-ft)



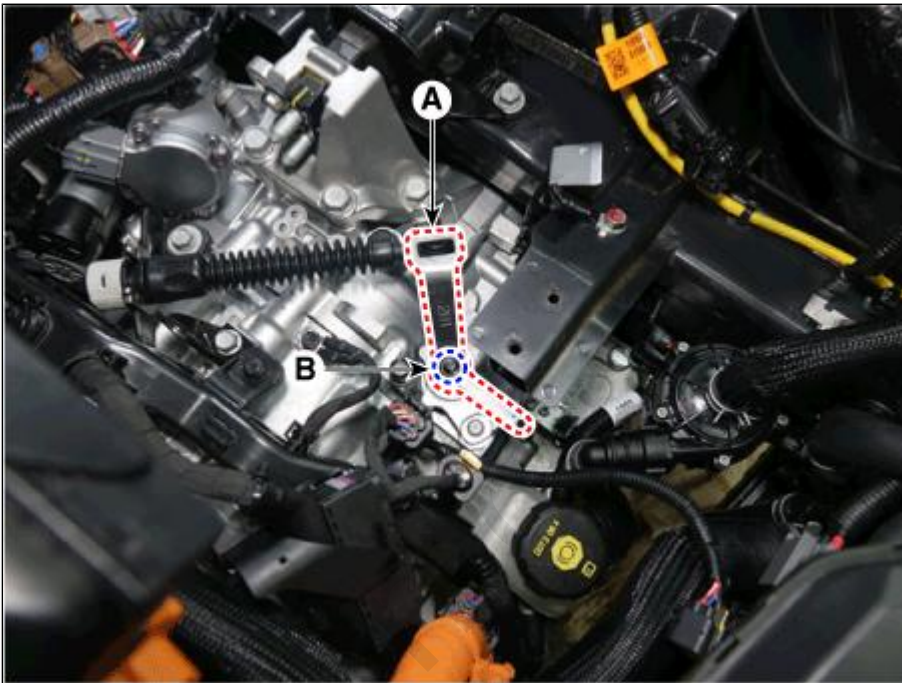
8. Disconnect the inhibitor switch (A).



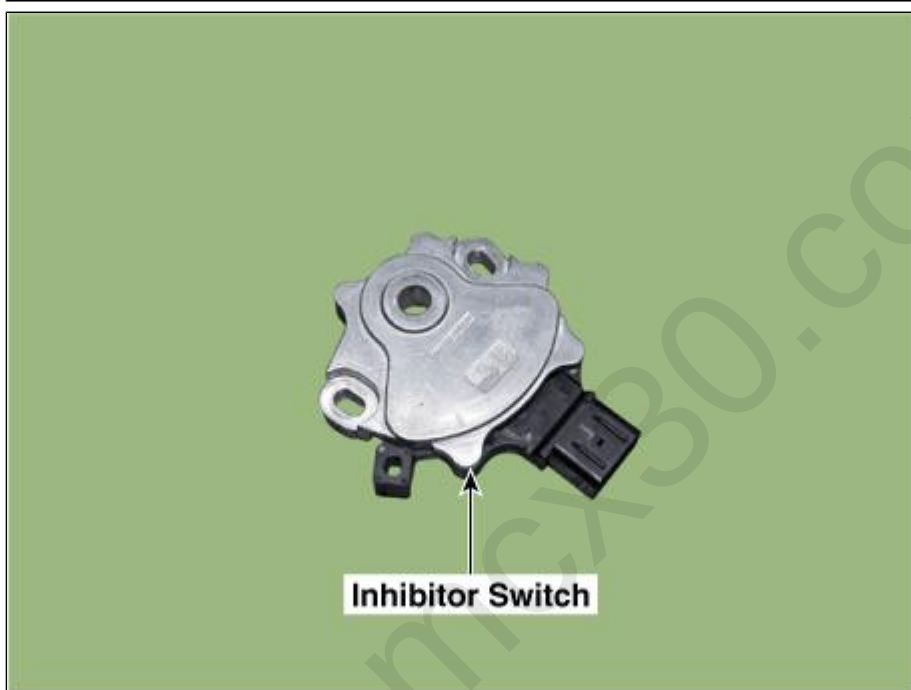
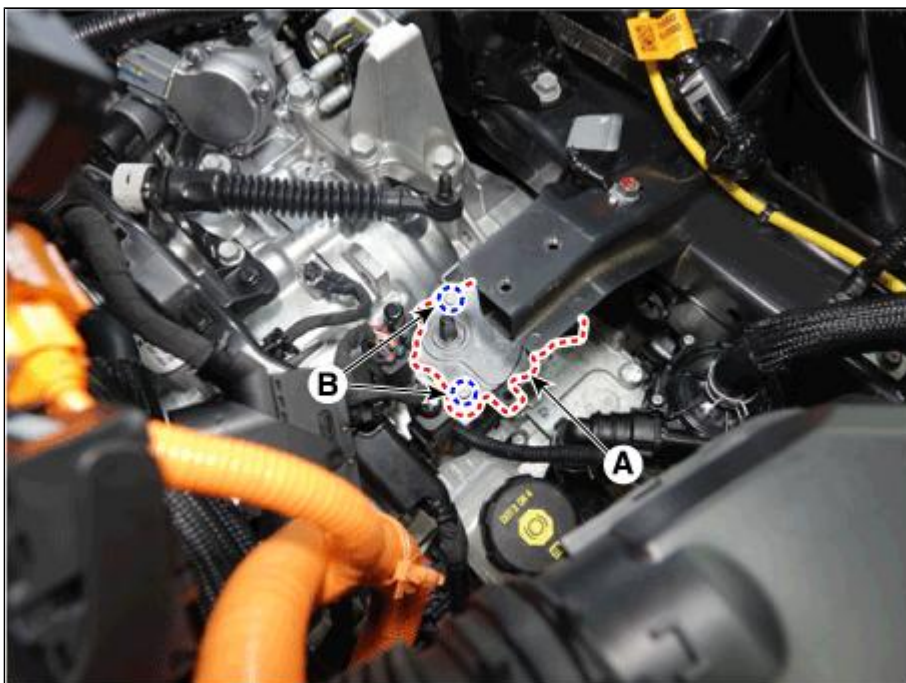
9. Loosen the shift cable mounting nut (A).



10. Loosen the nut (B) and then removing the manual control lever (A).

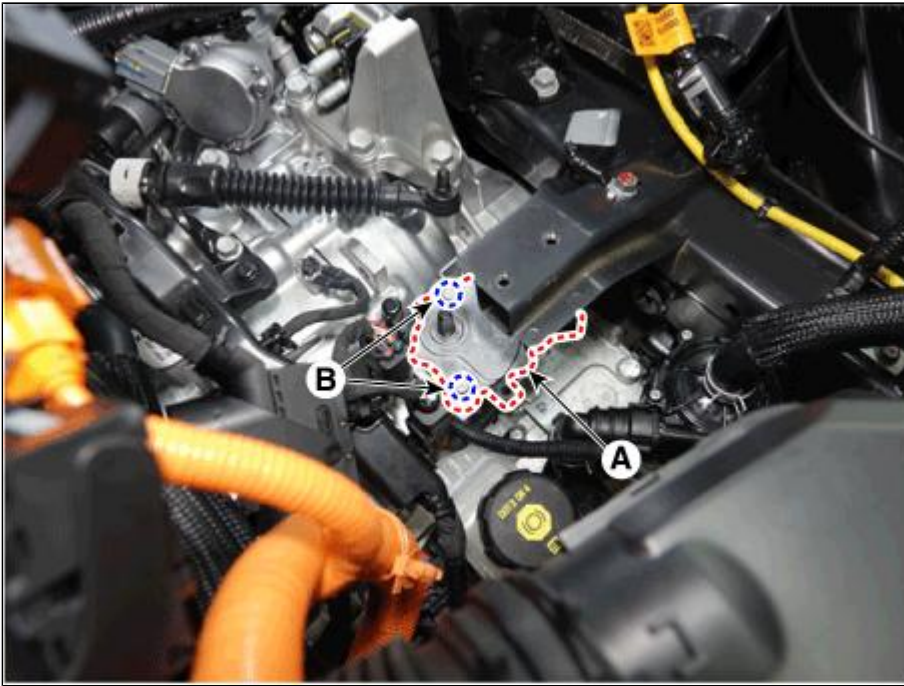


11. Loosen the bolts (B) and then removing the inhibitor switch (A).

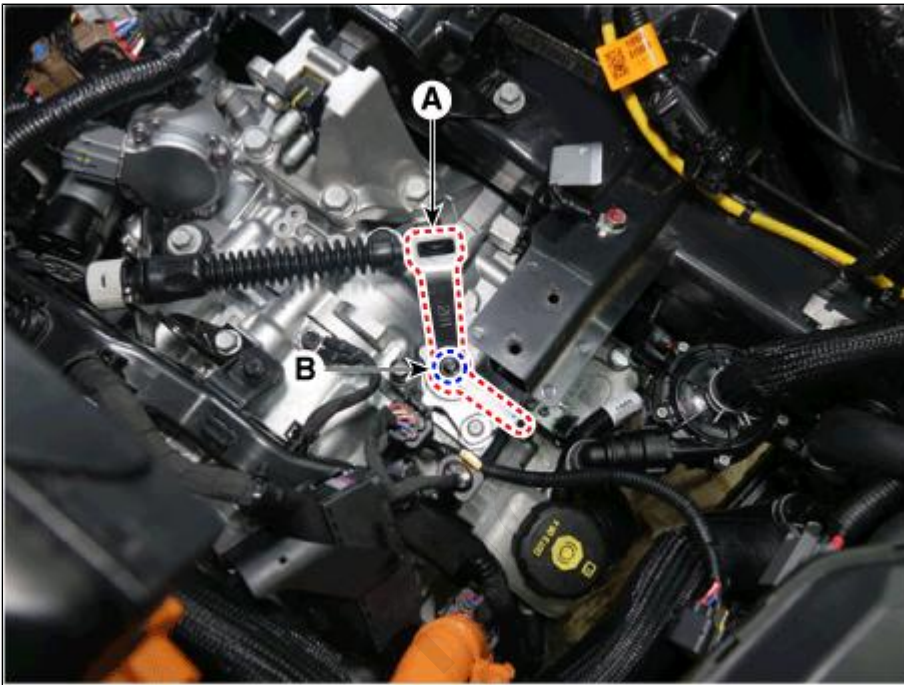


Installation

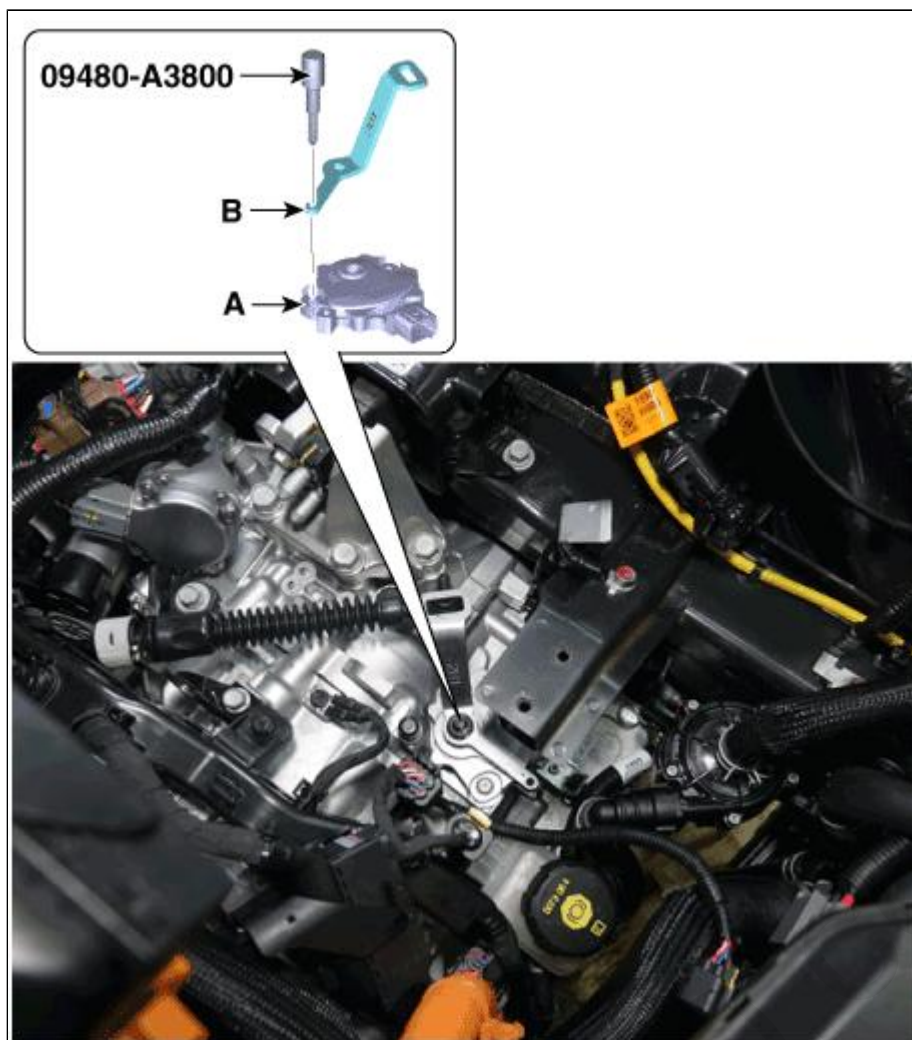
1. Check that the shift lever is placed in the "N" position.
2. Lightly tighten the inhibitor switch mounting bolts (B) after installing the inhibitor switch (A).



3. Lightly tighten the manual control lever mounting nut (B) after installing the manual control lever (A).



4. Align the hole (A) in the manual control lever with the "N" position hole (B) of the inhibitor switch and then insert the inhibitor switch guide pin (SST No.:09480-A3800).

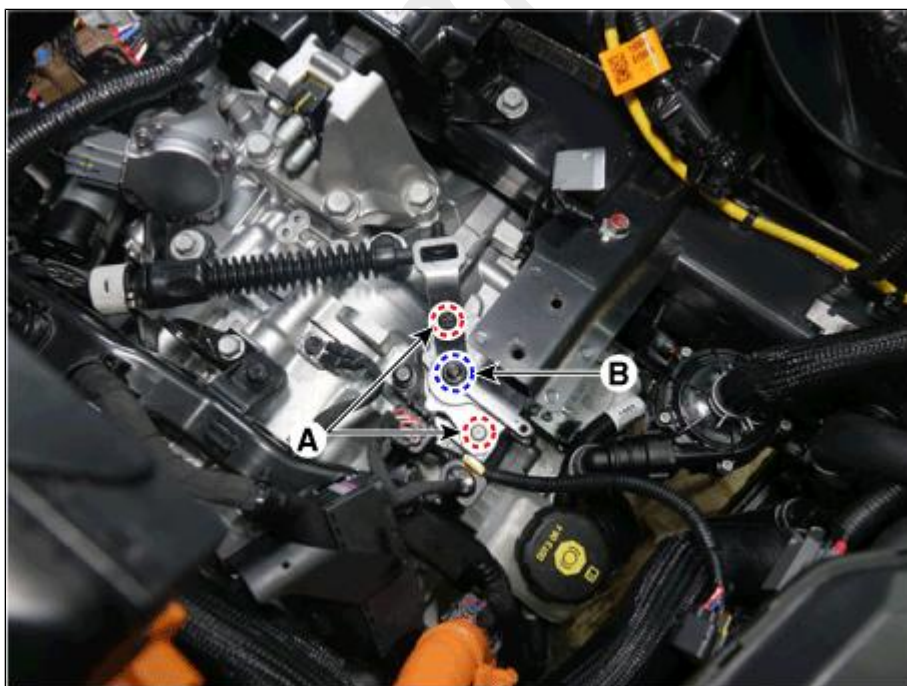


5. Tighten the inhibitor switch mounting bolts (A) to the specified torque.
6. Tighten the manual lever mounting nut (B) to the specified torque.

Tightening torque :

(A) : 17.7 - 24.5 N.m (1.8 - 2.5 kgf.m, 13.0 - 18.1 lb-ft)

(B) : 9.8 - 11.8 N.m (1.0 - 1.2 kgf.m, 7.2 - 8.7 lb-ft)



7. Lightly tighten the nut (A) after connected the shift cable (C) in the manual control lever (B).

8. Tighten the nut (A) after push the shift cable (C) lightly to "F" direction shown to eliminate free play of shift cable.

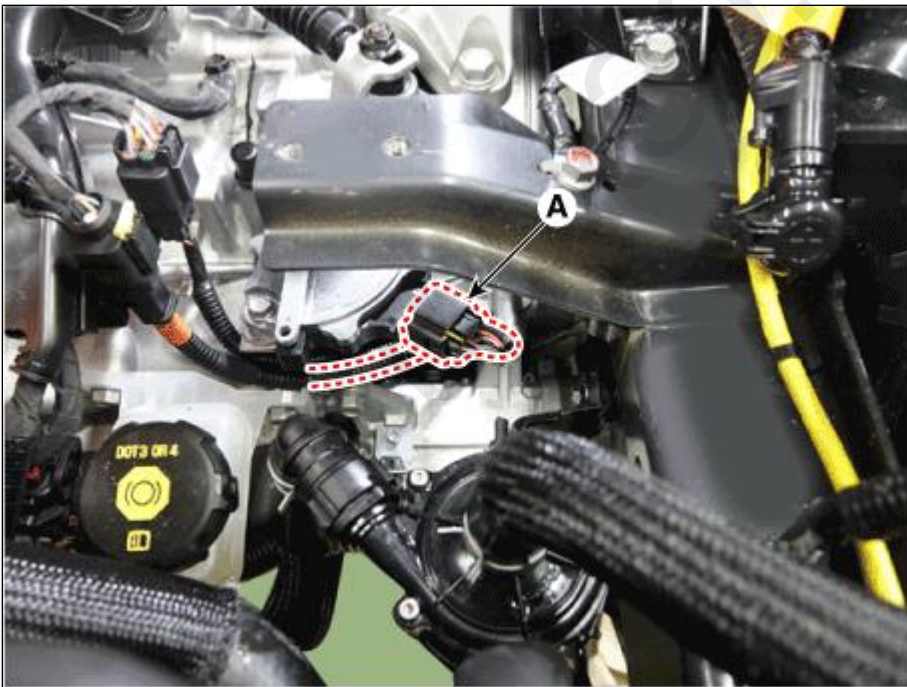
Tightening torque :

9.8 - 14.7 N.m (1.0 - 1.5 kgf.m, 7.2 - 10.8 lb-ft)

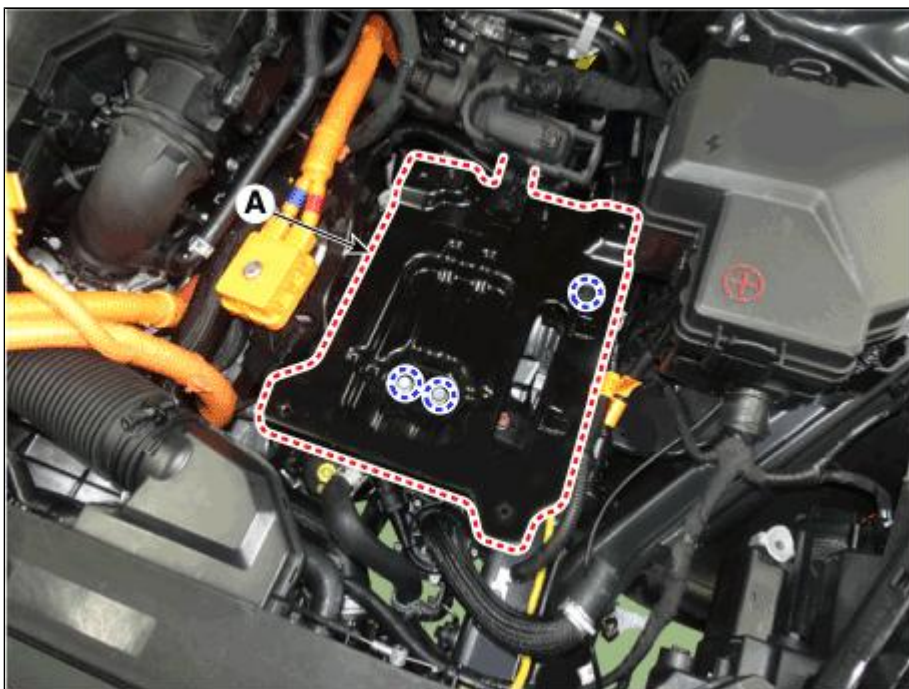
9. Connect the inhibitor switch connector (A).



10. Connect the inhibitor switch connector (A).



11. Remove the inhibitor switch guide pin (SST No. : 09480-A3800) from the hole.
12. Install the engine room under cover.
(Refer to Engine Mechanical System - "Engine Room Under Cover")
13. Install the HPCU (Hybrid Power Control Unit) tray (A).



14. Install the TCM and ECM.
(Refer to Engine Control System - "Engine Control Module (ECM)")
15. Install the HPCU (Hybrid Power Control Unit).
(Refer to Hybrid Control System - "HPCU (Hybrid Power Control Unit)")
16. Bleed air from the hybrid motor cooling system using the diagnostic tool.
(Refer to Hybrid Motor System- "Coolant")

⚠ CAUTION

Check that operating surely at each range of the inhibitor switch corresponding to each position of shift lever.

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