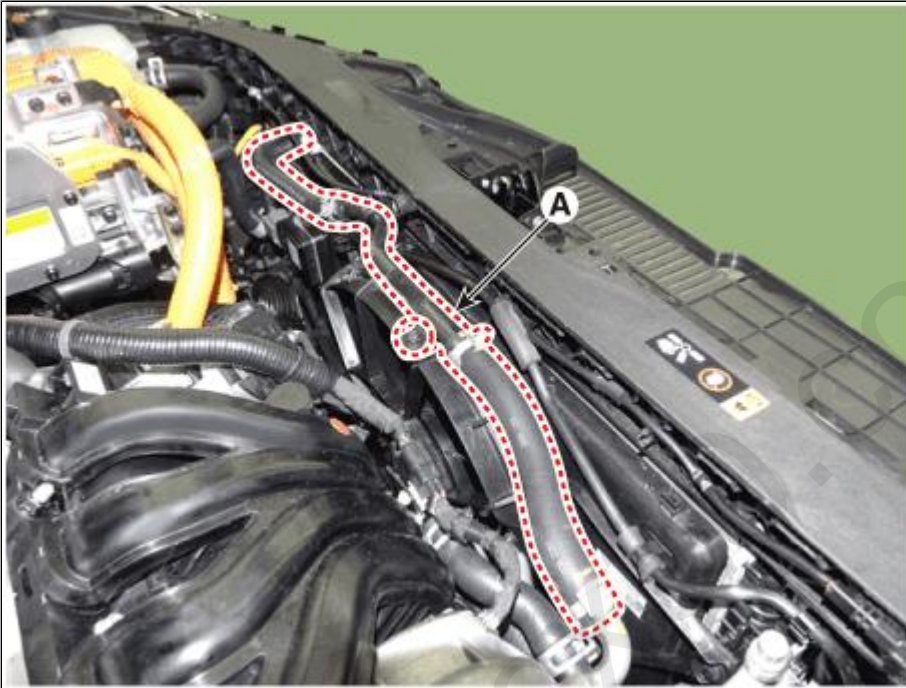


Removal and installation

Cooling Fan Assembly

1. Shut off the High Voltage circuit.
(Refer to General Information - "High Voltage Shutoff Procedure")
2. Disconnect the battery positive terminal.
3. Remove the air cleaner assembly.
(Refer to Intake and Exhaust System - "Air Cleaner")
4. Remove the engine room under cover.
(Refer to Engine and Transaxle Assembly - "Engine Room Under Cover")
5. Loosen the drain plug, and drain the engine coolant. Remove the reservoir cap to help drain the coolant faster.
(Refer to Hybrid Motor System - "Coolant")
6. Loosen the hybrid starter generator (HSG) mounting bolt and then disconnect the coolant hose (A).

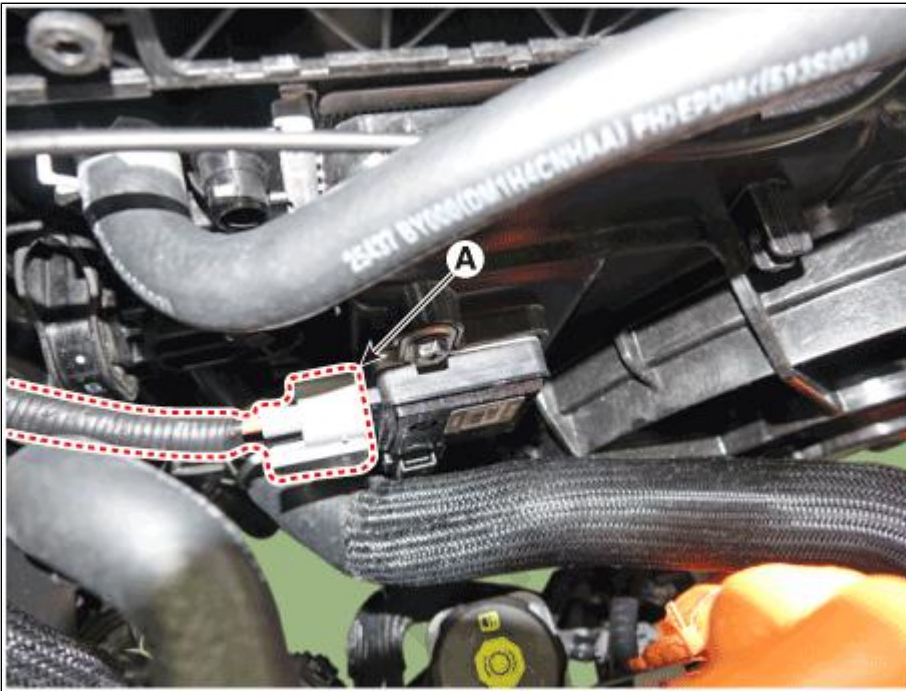


7. Loosen the over flow hose mounting bolt and then disconnect the over flow hose (A) from cooling fan.





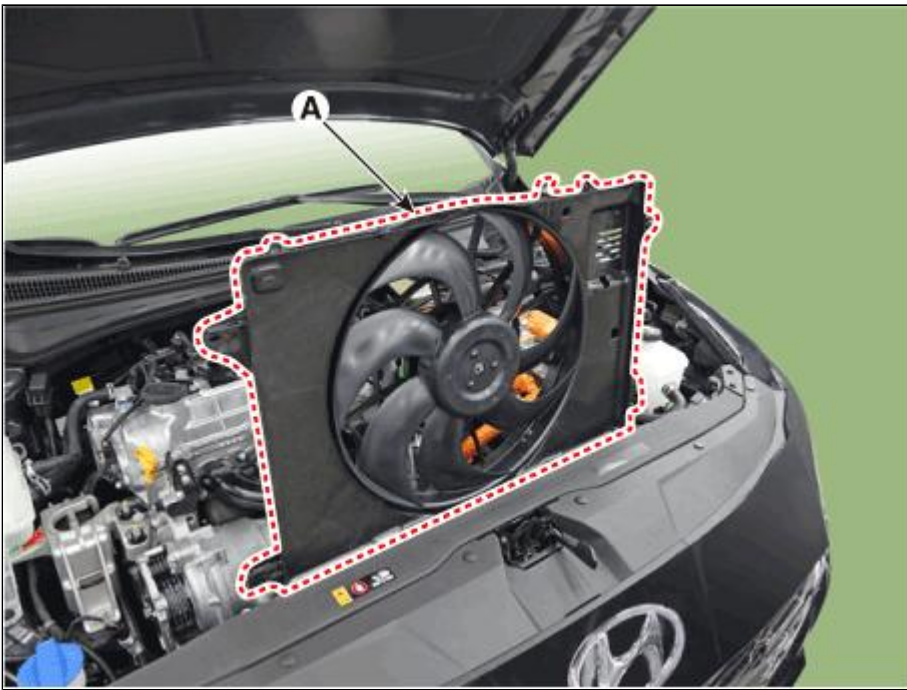
8. Disconnect the wire harness connector (A).



9. Loosen the cooling fan assembly mounting bolts and then remove the cooling fan (A) from the vehicle.

Tightening torque :

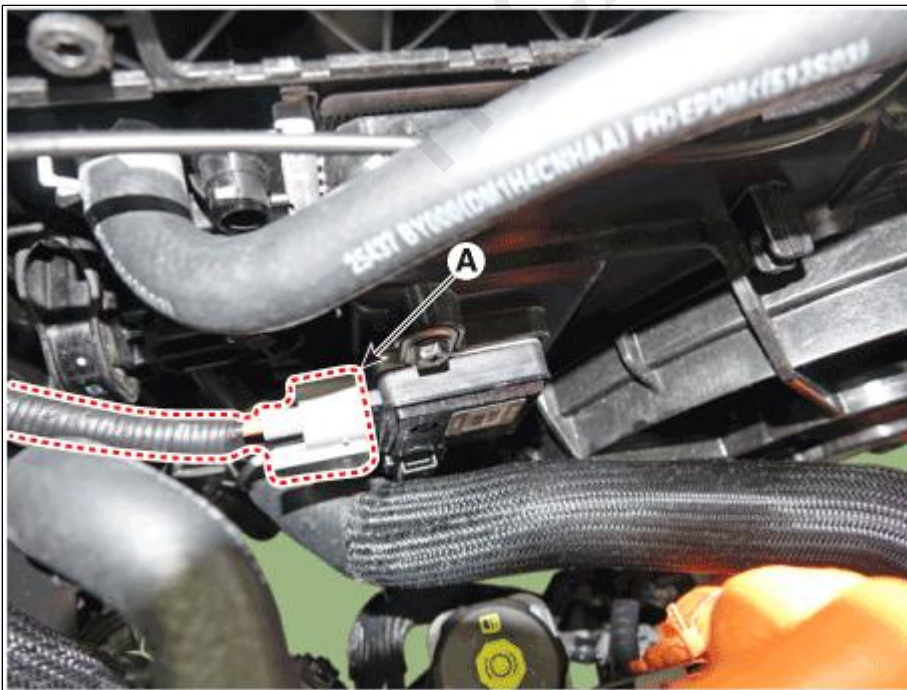
4.9 - 7.8 N.m (0.5 - 0.8 kgf.m, 3.6 - 5.8 lb-ft)



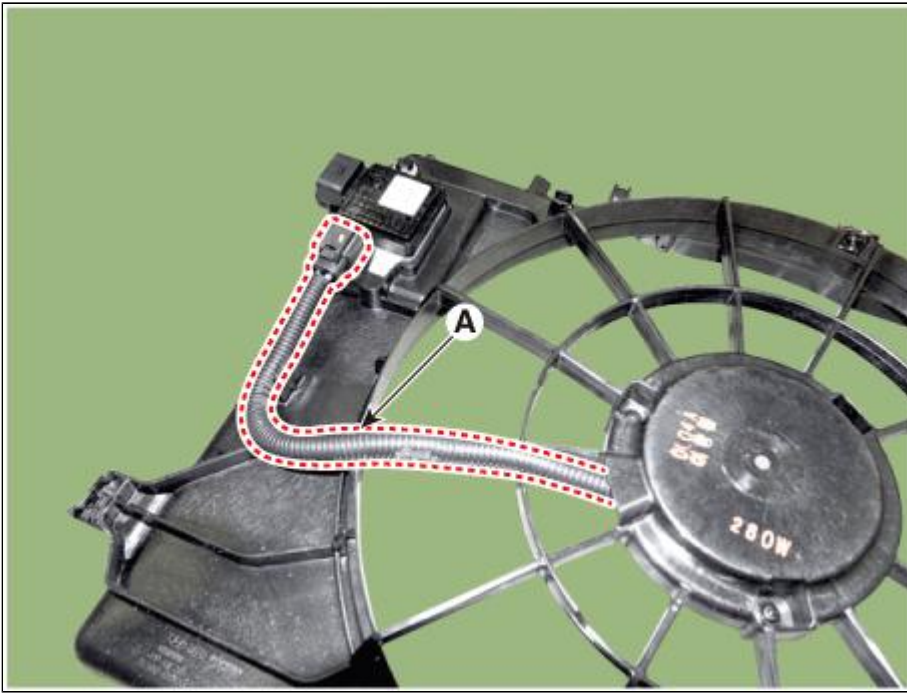
10. Install in the reverse order of removal.
11. Fill the radiator with coolant and check for leaks.
(Refer to Hybrid Motor System - "Coolant")
12. Start engine and check for leaks.
13. Recheck the coolant level.

Cooling Fan Controller (PWM)

1. Shut off the High Voltage circuit.
(Refer to General Information - "High Voltage Shutoff Procedure")
2. Disconnect the battery positive terminal.
3. Remove the air cleaner assembly.
(Refer to Intake and Exhaust System - "Air Cleaner")
4. Disconnect the wire harness connector (A).



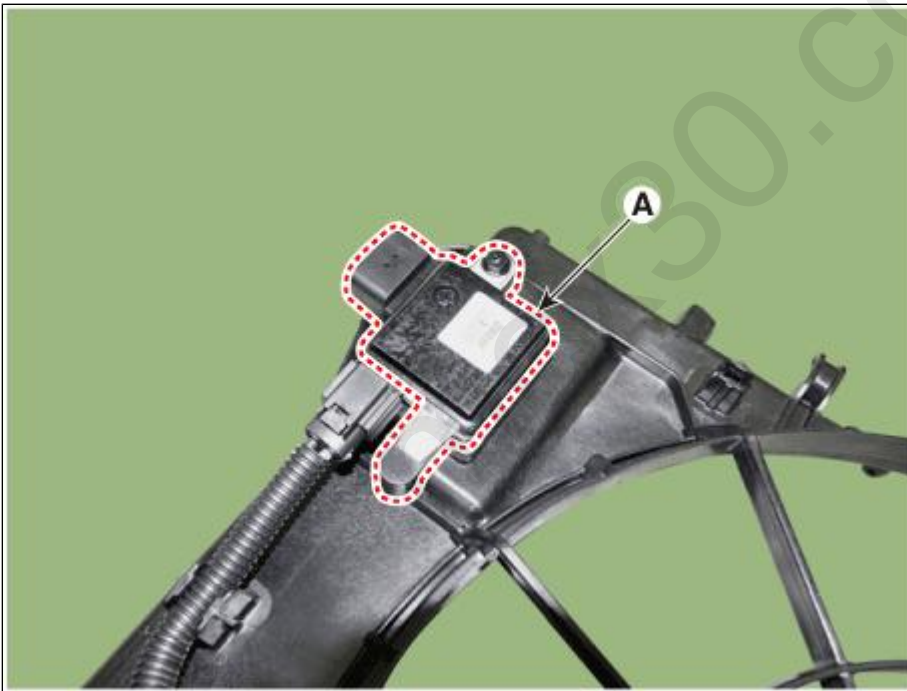
5. Disconnect the fan motor connector (A).



6. Remove the cooling fan controller (PWM) (A) from the cooling fan shroud.

Tightening torque :

4.9 - 8.3 N.m (0.50 - 0.85 kgf.m, 3.6 - 6.1 lb-ft)



7. Install in the reverse order of removal.

Disassembly

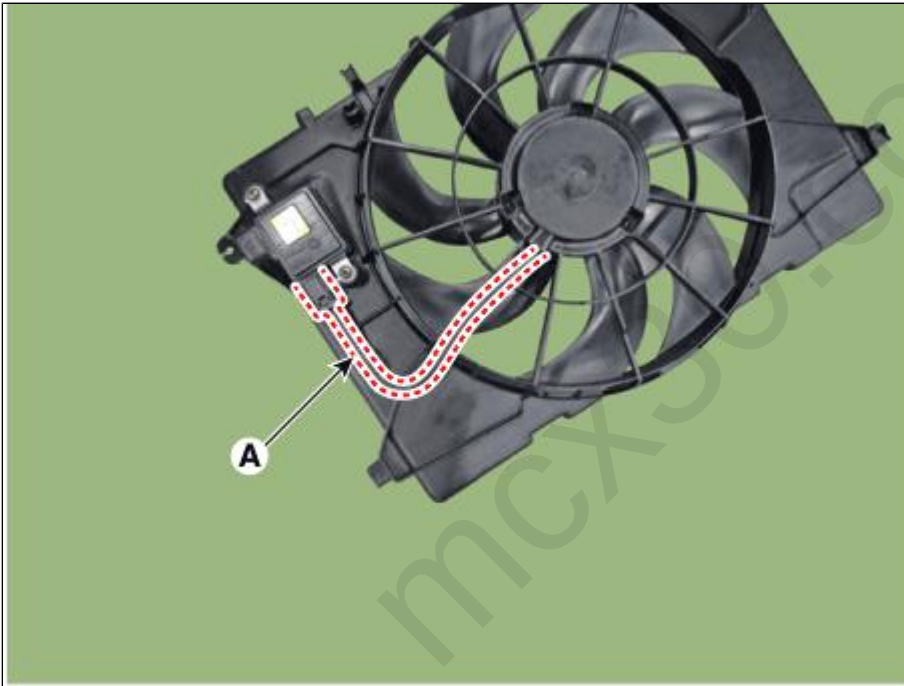
1. Remove the cooling fan (A) from the cooling fan assembly.

Tighting torque :

2.8 - 3.2 N.m (0.28 - 0.33 kgf.m, 2.1 - 2.4 lb-ft)



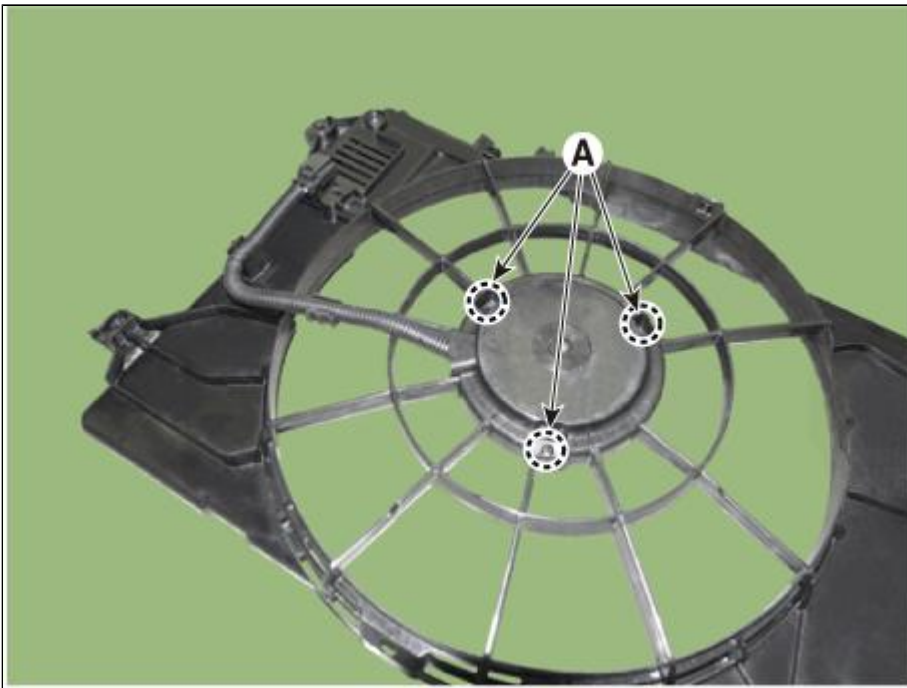
2. Disconnect the fan motor connector (A) from the cooling fan controller (PWM).



3. Loosen the screws (A) and then remove the fan motor from the cooling fan shroud.

Tightening torque :

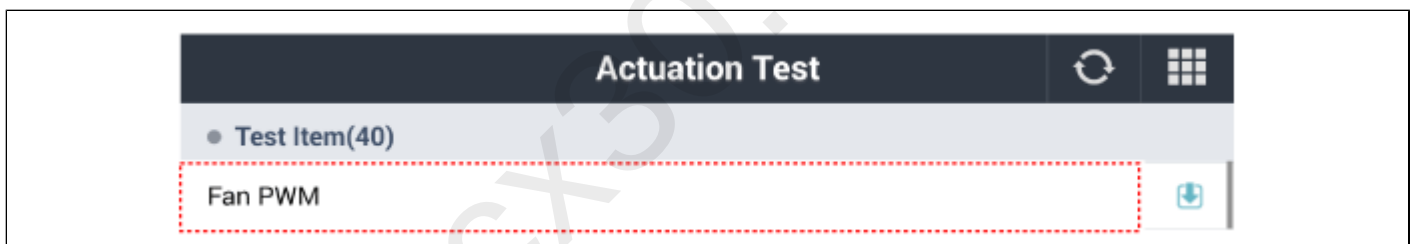
3.9 - 5.9 N.m (0.4 - 0.6 kgf.m, 2.9 - 4.3 lb-ft)



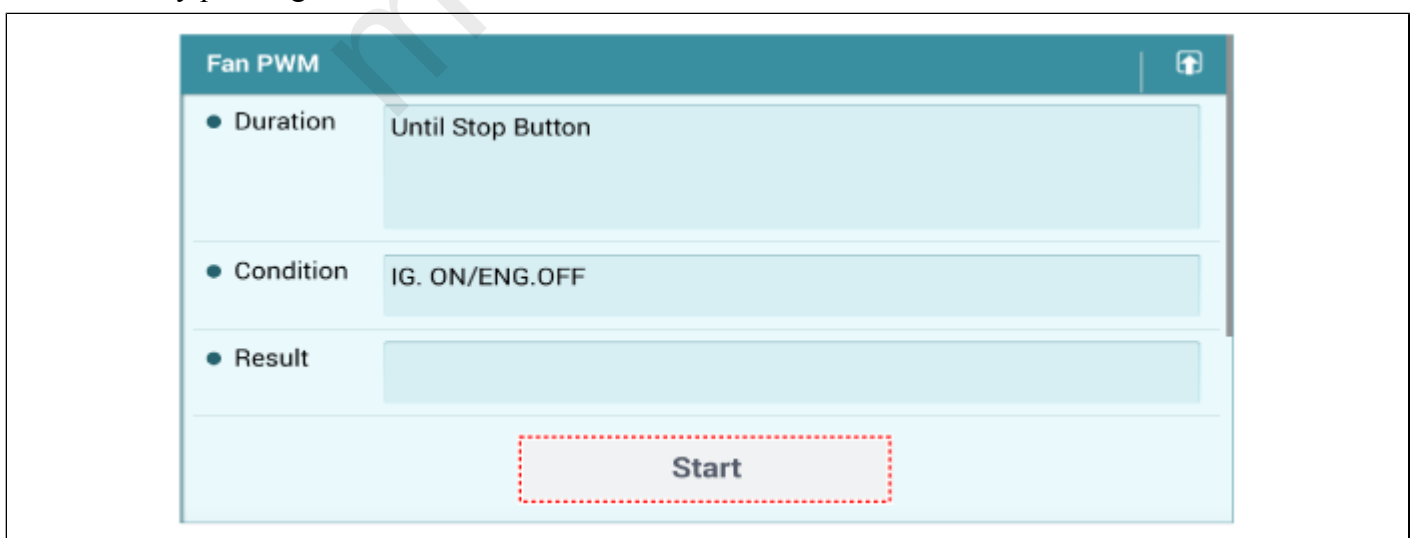
4. Assemble in the reverse order of disassembly.

Inspection

1. Turn ignition switch "OFF" and connect the diagnostic tool to the Data Link Connector.
2. With the gear shift in P (Park) position and ignition switch "ON" (LED of the Power button illuminates in Red), select the "force drive" function.
3. Force drive the cooling fan motor.
 - (1) Start the "Cooling fan PWM control" of the force drive function.



(2) Force drive by pressing the start button.



- (3) Visually check the operation of the cooling fan.
- (4) Visually check the operation of the cooling fan.

Fan PWM

● Duration

Until Stop Button

● Condition

IG. ON/ENG.OFF

● Result

Operation Command Sent

Stop

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