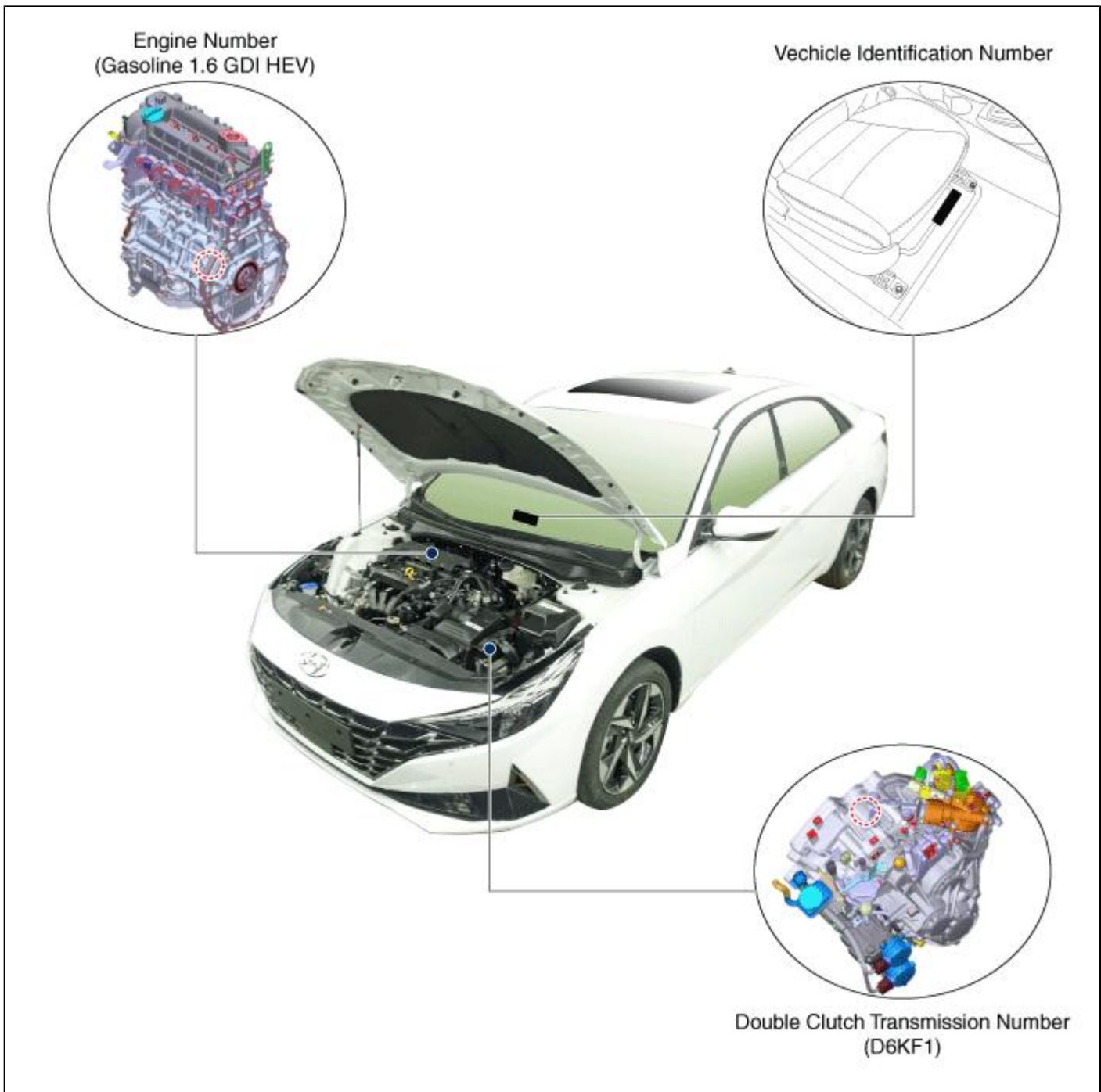


Identification Numbers



Identification Number Description

Vehicle Identification Number

K	M	H	L	N	4	1	J	G	M	A	000001
1	2	3	4	5	6	7	8	9	10		

1. World Manufacturer Identifier (WMI)
- KMH : Passenger vehicle, Multipurpose Passenger Vehicle (MPV)
2. Vehicle line

Component



1. DC fuse

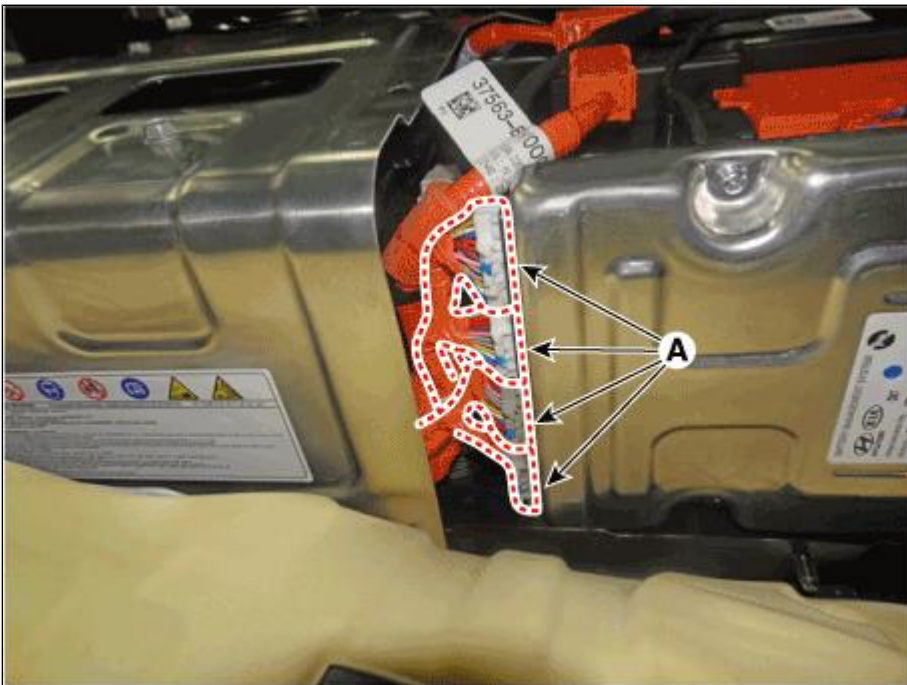
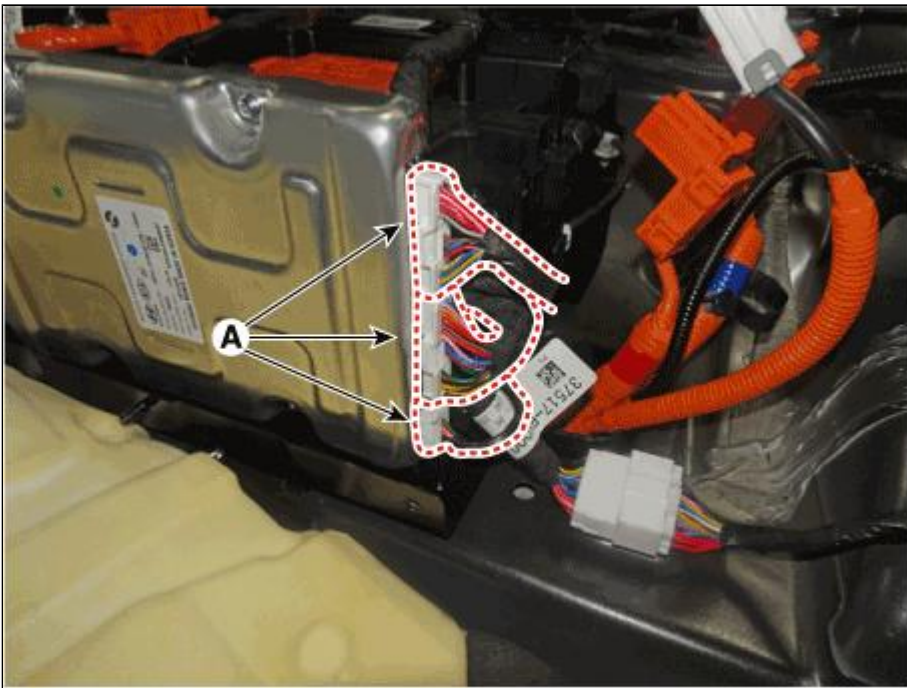
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Document Rating :

Please rate the above contents on a scale of 1 to 5.

Little Value 1 2 3 4 5 Excellent Value



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

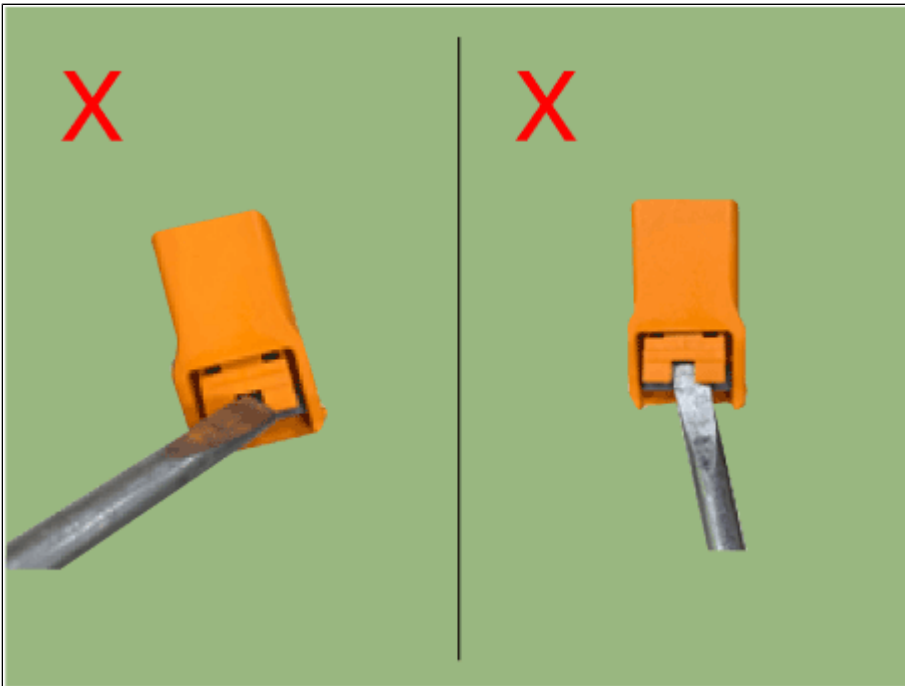
Tightening torque :

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



NOTICE

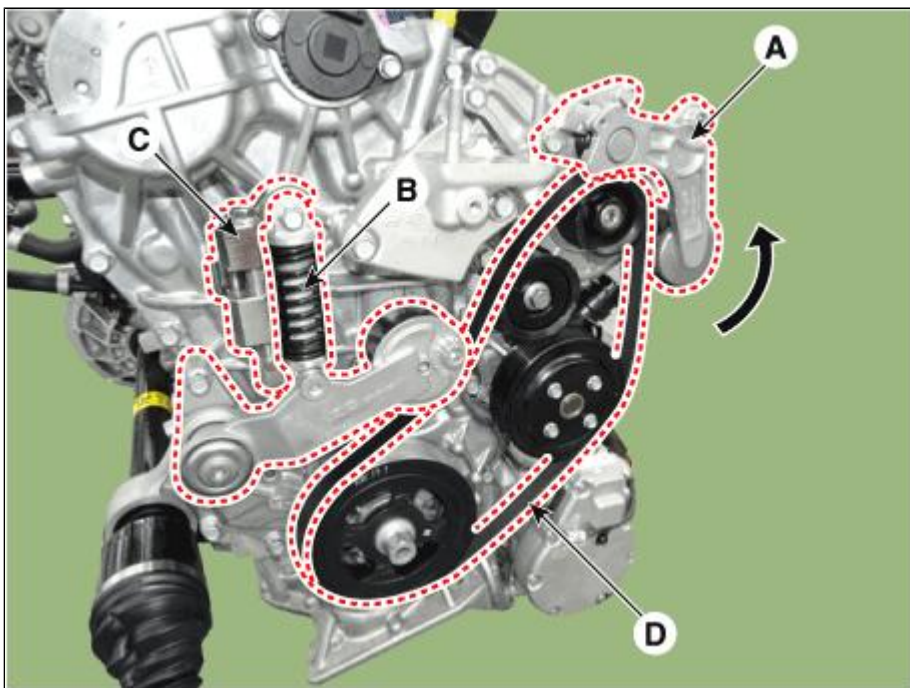
Be careful not to damage the connector when disconnecting the high voltage connector.
Do not use a flat head screwdriver that does not fit into the CPA groove.
Do not lift the connector removal knob.



8. Disconnect the BMS extension connector (A).

Removal

1. Remove the engine room under cover.
(Refer to Engine and Transaxle Assembly - "Engine Room Under Cover")
2. Remove the drive belt.
 - (1) Using the wrench, turning the mechanical tensioner (A) counterclockwise and then insert a stopper pin into the hole.
 - (2) Install the SST (09244-G2100) to hydraulic tensioner (B) and then compress the hydraulic tensioner by tightening the adjusting bolt (C).
 - (3) Remove the drive belt (D).

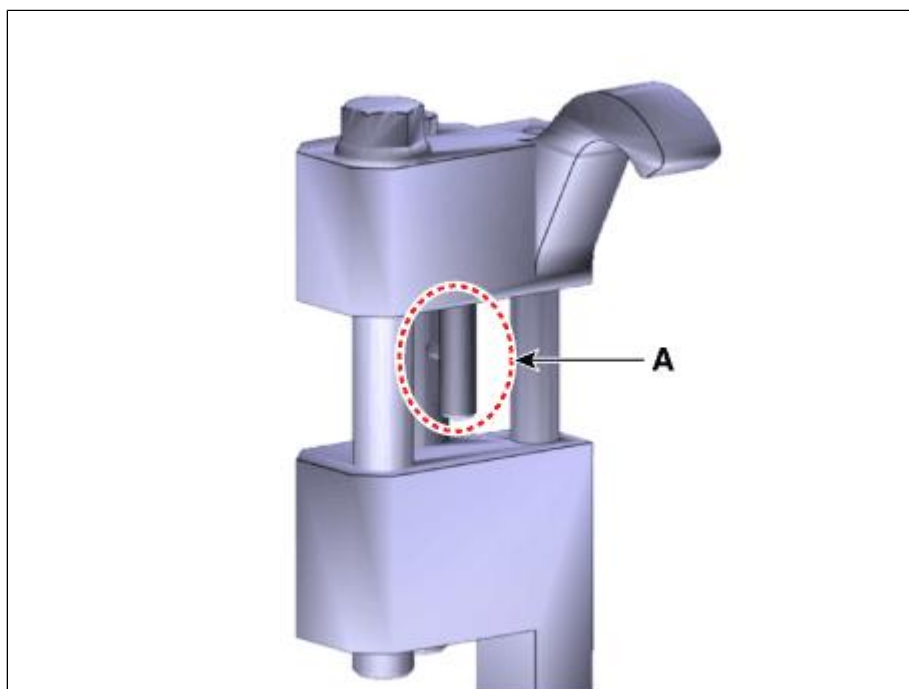


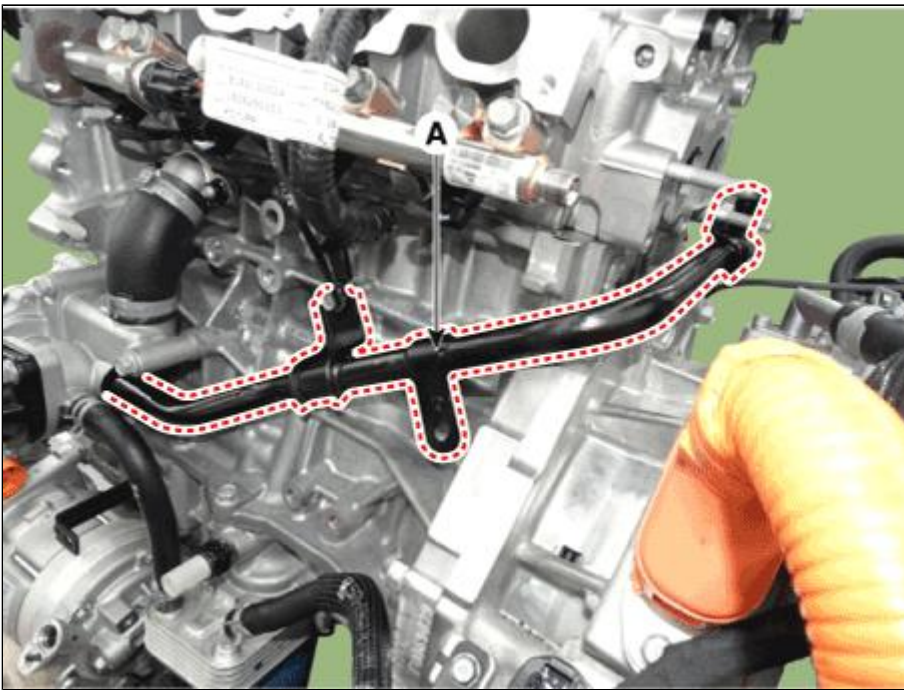
NOTICE

To prevent damage the hydraulic tensioner, slowly must work by using the hand tool.

NOTICE

Before proceeding, check whether the safety pin (A) of the SST (09244-G2100) is located inside the SST as shown in the figure.





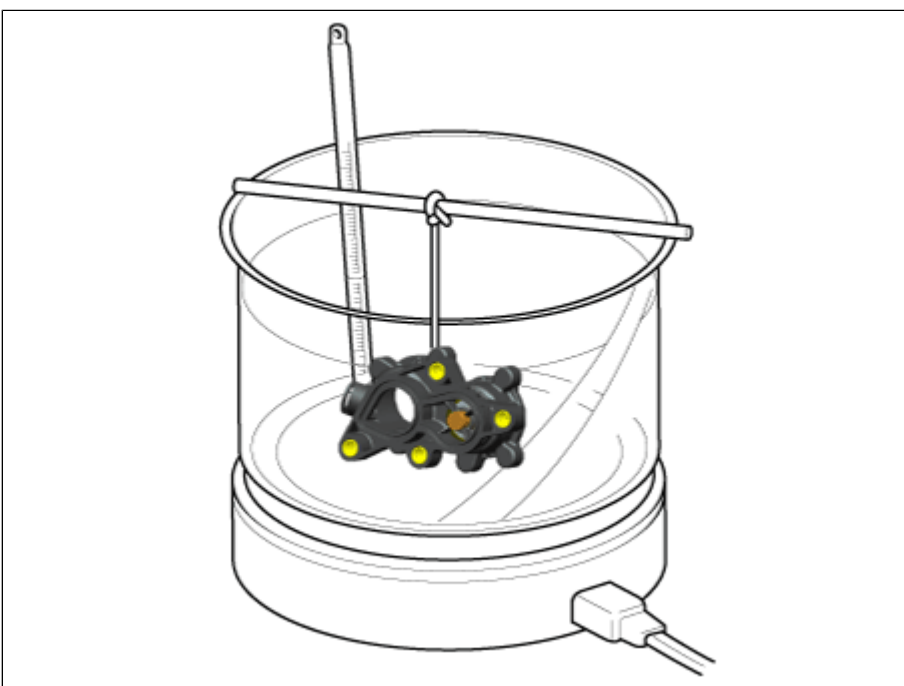
⚠ CAUTION

- â When assembling the heater pipe, make sure that there is no foreign substance in the O-ring gasket.
- ç
- â Be sure to apply antifreeze on the O-ring gasket before inserting the heater pipe to the water pump housing.
- ç

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

Inspection

1. Remove the outlet fitting, coolant temperature sensor, bracket and gasket from the coolant temperature control assembly.
2. Submerge the coolant temperature control assembly with the thermostat in the antifreeze and heat the antifreeze slowly.

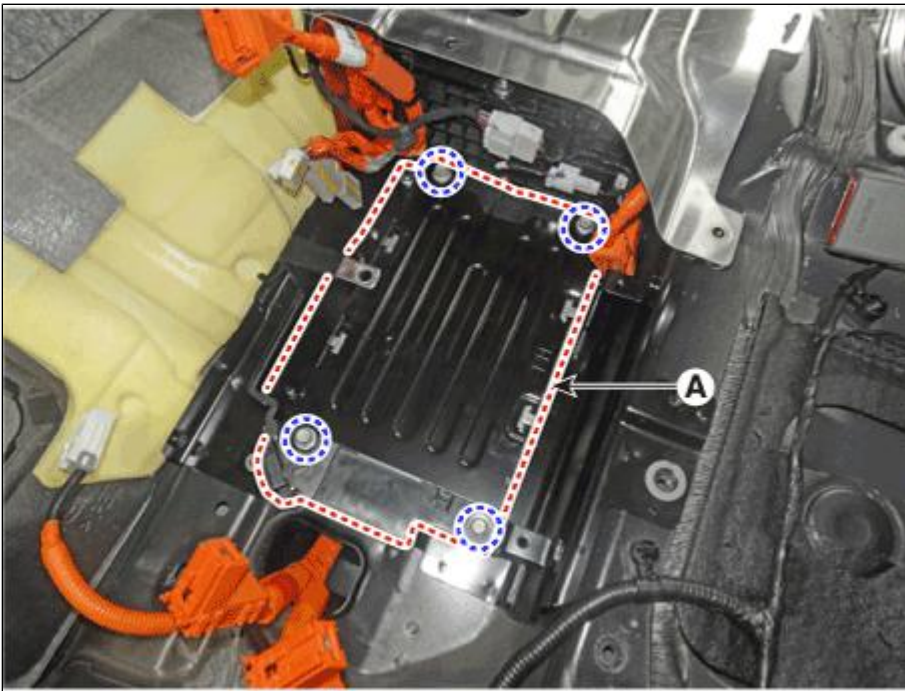


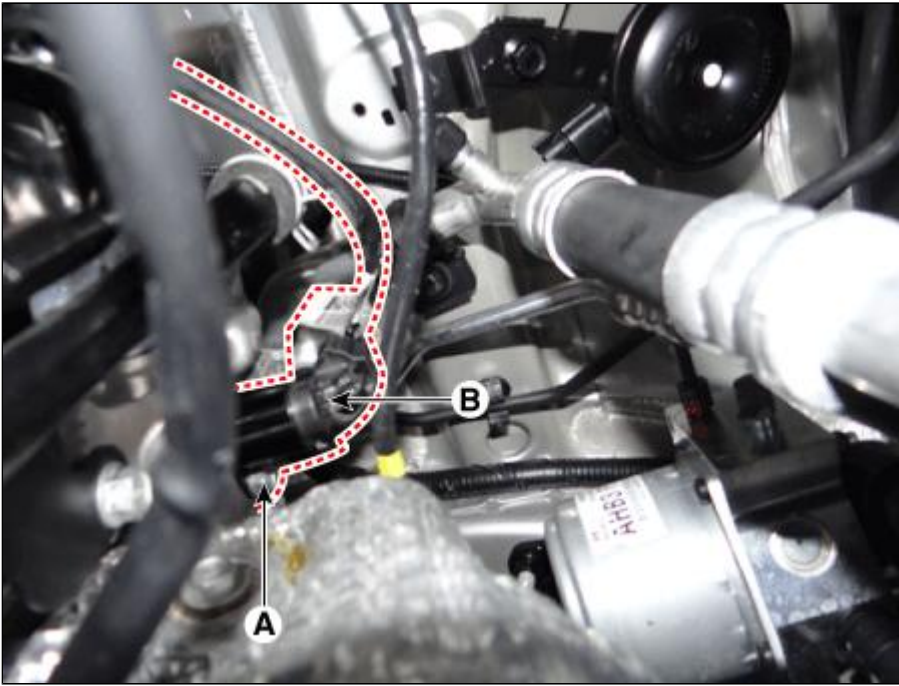


22. Remove the 12V battery module (A).

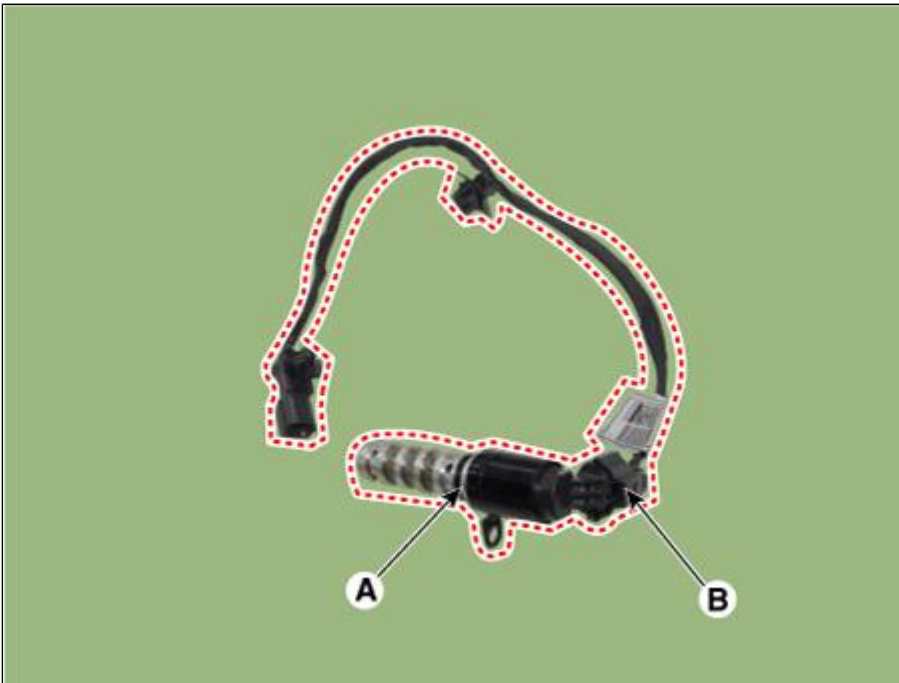
Tightening torque :

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





5. Disconnect the oil control valve (A) from the extension wiring (B).



Installation

⚠ CAUTION

â Install the component with the specified torques.

ç

â Note that internal damage may occur when the component is dropped. If the component has been dropped, ç inspect before installing.

⚠ CAUTION

â Apply engine oil to the valve O-ring.

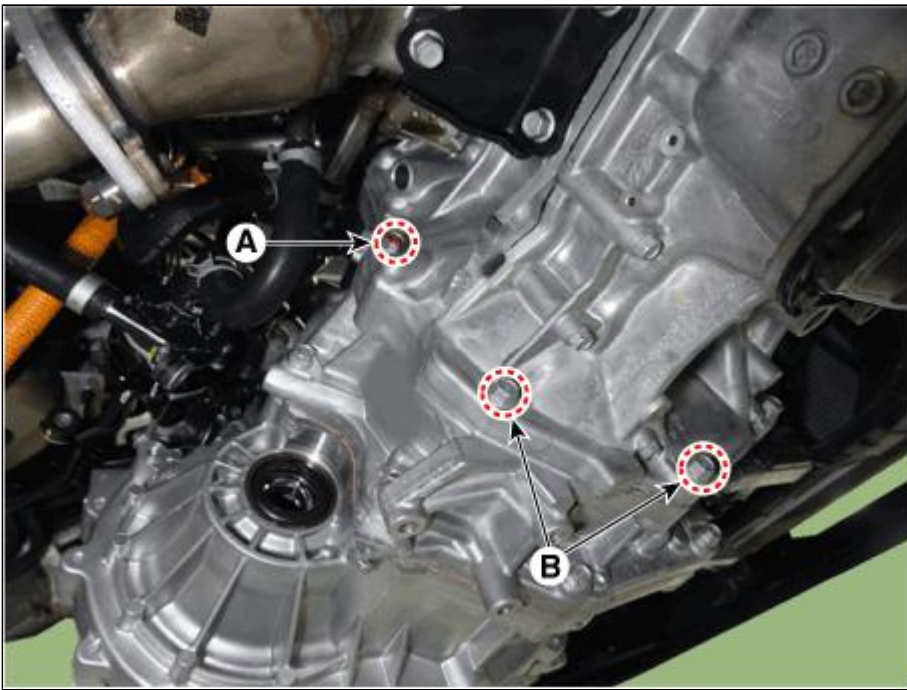
ç

1. Install in the reverse order of removal.

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35. After separating the hybrid motor and transmission from the engine, remove the transmission by lowering the jack slowly.

⚠ CAUTION

â Be careful not to damage other system or parts near by when removing the hybrid motor and ç transmission assembly.

36. Remove the hybrid motor assembly from the dual clutch transmission.
(Refer to Hybrid Motor System - "Hybrid Motor Assembly")

Installation

1. To install, reverse the removal procedures.

⚠ CAUTION

Matters that require attention when installing the dual clutch transmission (DCT) to hybrid motor.

1) Check the pilot bearing (A) and connector on the side of motor for any dents, damages and deformations before installing the DCT.



2) Align the connector on the side of motor (A) with the dual clutch spline (B).

Component location



1. HPCU (Hybrid Power Control Unit)
(LDC+MCU+HCU+Reservoir)
2. Hybrid drive motor

3. Hybrid starter generator (HSG)
4. Electrical radiator
5. Electric water pump (EWP)

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Little Value 1 2 3 4 5 Excellent Value

Replacement

1. Turn the steering wheel so that the front wheels are placed in the straight ahead position.

⚠ CAUTION

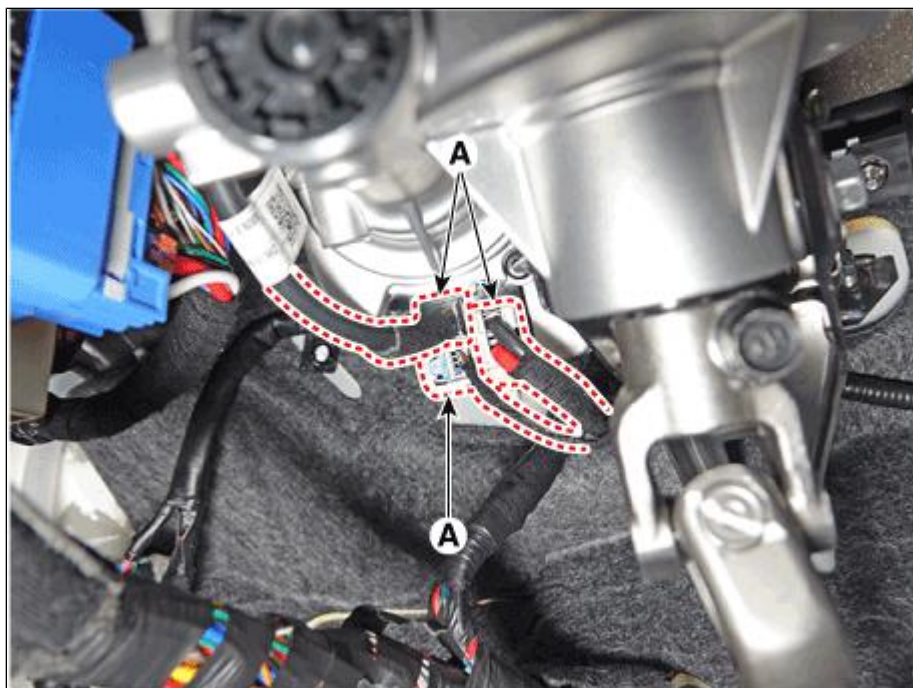
⚠ If the steering wheel and the front tires are not set straight ahead together, it may affect the number of ϕ circulation of steering wheel and damage the cable inside the clock spring.

2. Turn the ignition switch OFF and disconnect the battery negative (+) cable.

⚠ WARNING

⚠ Disconnect the battery negative cable from the battery and then wait for at least 3 minutes.
 ϕ

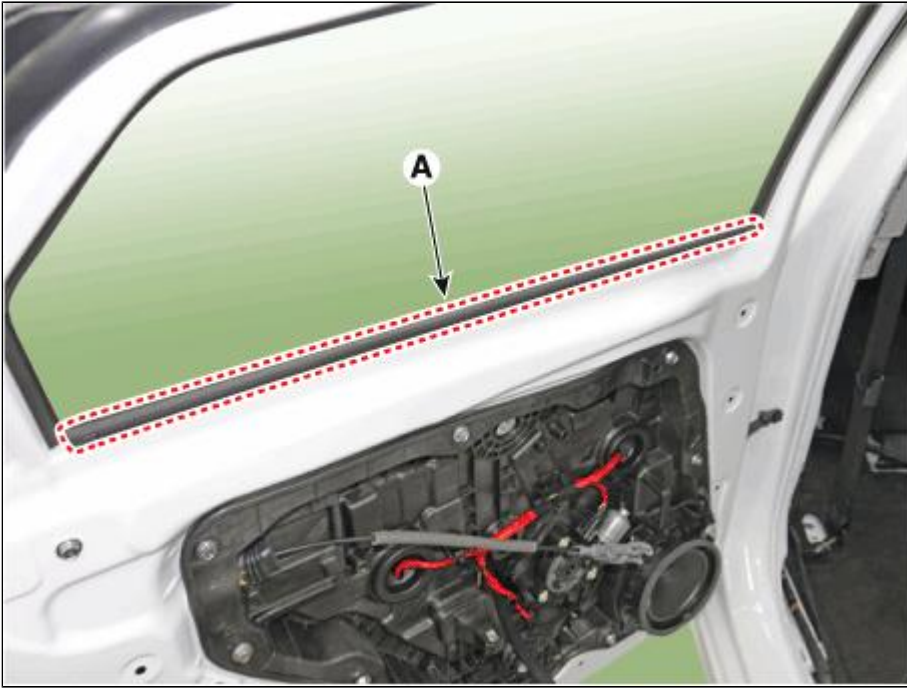
3. Remove driver airbag (DAB) module.
(Refer to Restraint - "Driver Airbag (DAB) Module and Clock Spring")
4. Remove the steering wheel.
(Refer to Steering System - "Steering Wheel")
5. Remove the clock spring.
(Refer to Restraint - "Driver Airbag (DAB) Module and Clock Spring")
6. Remove the steering column shroud panel.
(Refer to Body - "Steering Column Shroud Panel")
7. Remove the crash pad lower panel.
(Refer to Body - "Crash Pad")
8. Remove the brake booster. (**Only RHD**)
(Refer to Brake System - "Brake Booster")
9. Remove the brake pedal. (**Only RHD**)
(Refer to Brake System - "Brake Pedal")
10. Disconnect the MDPS connector (A).



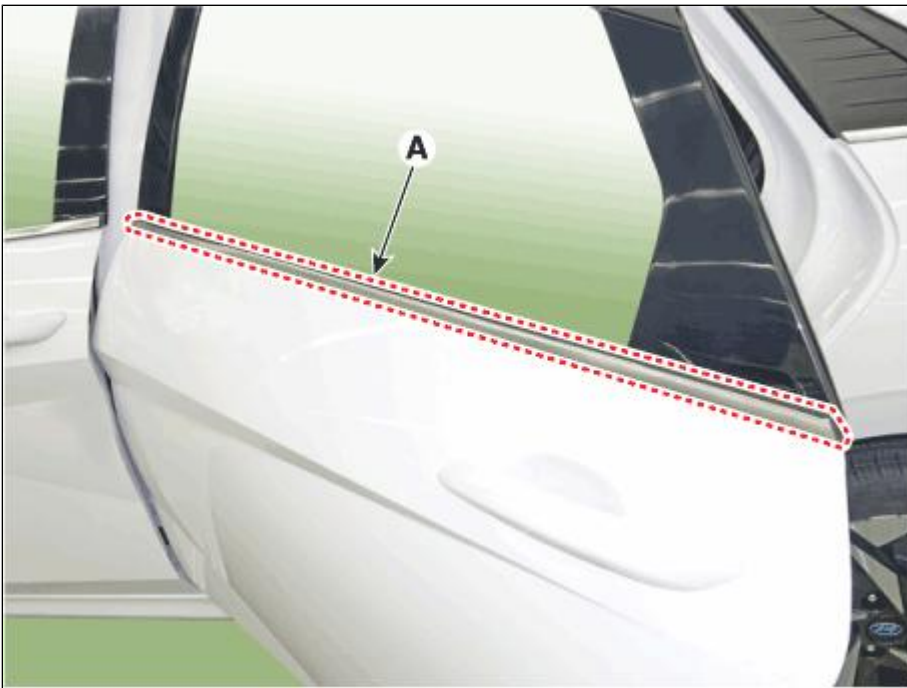
11. Remove the wiring clip (A) from the steering column.

zReplacement

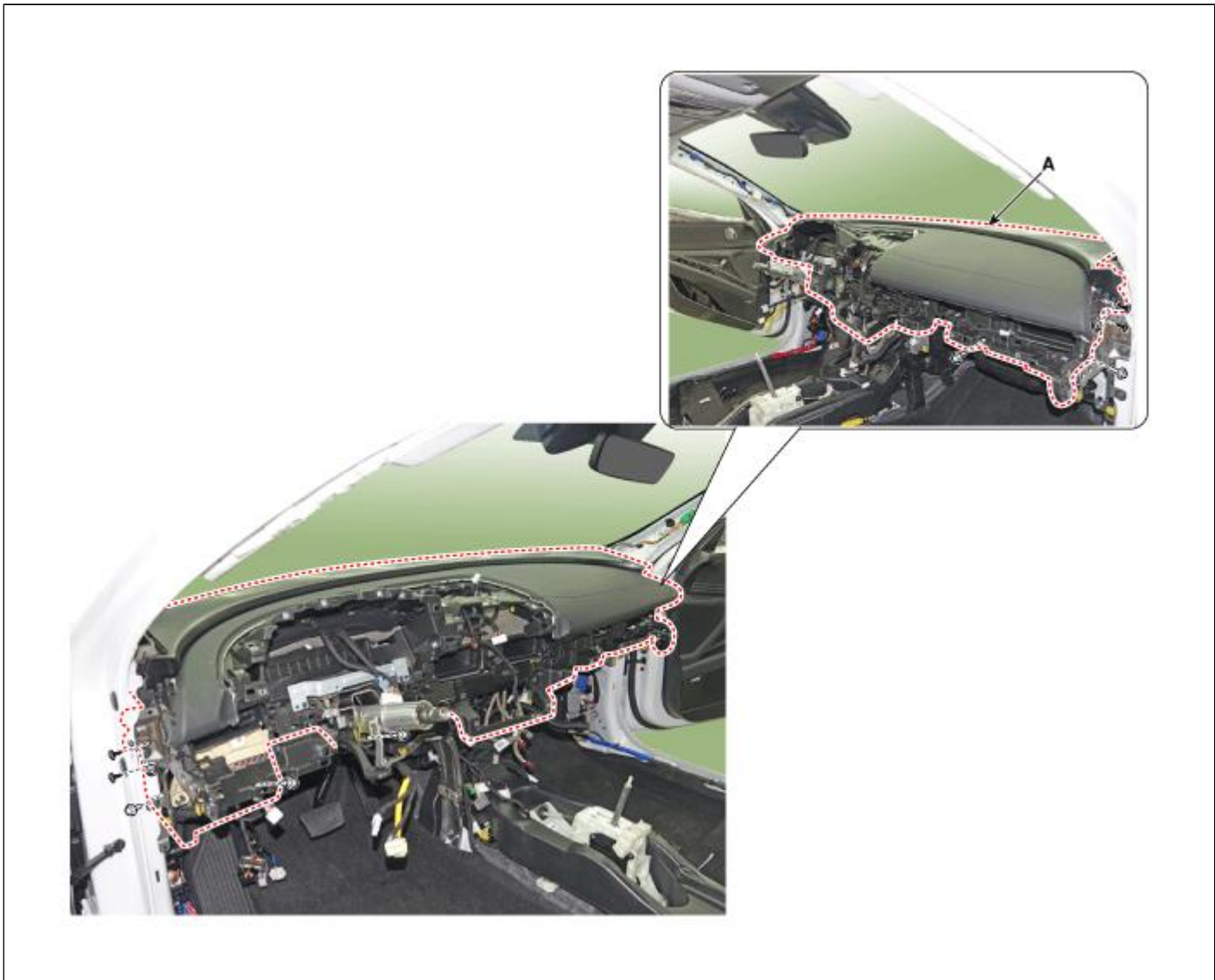
1. Remove the rear door trim.
(Refer to Rear Door - "Rear Door Trim")
2. Remove the rear door belt inside weatherstrip (A).



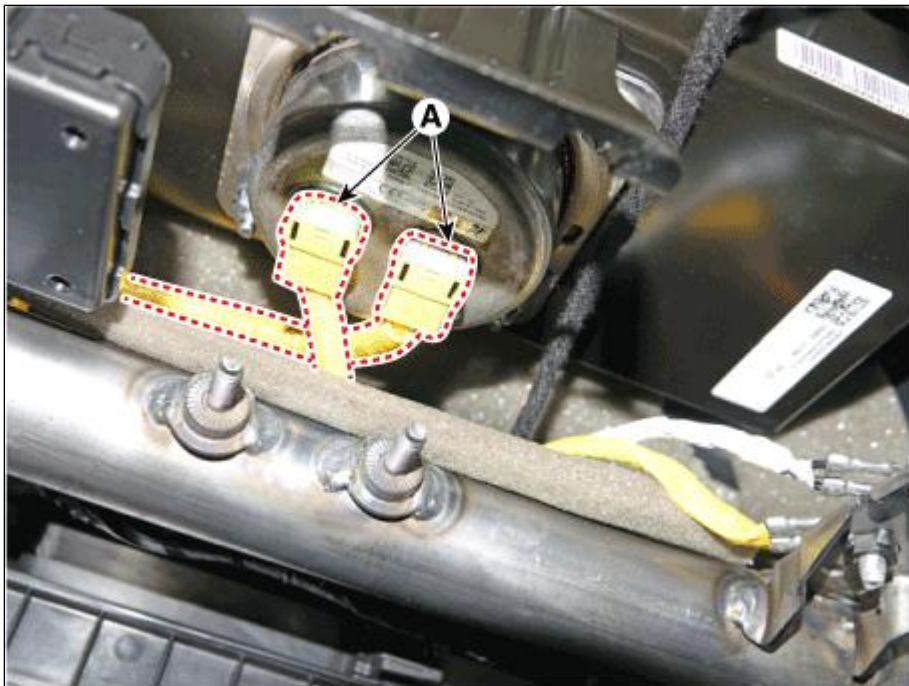
3. Remove the rear door belt outside weatherstrip (A).



4. Loosen the mounting screw, remove the rear door frame garnish (A).



30. Disconnect the passenger's airbag (PAB) connectors (A).

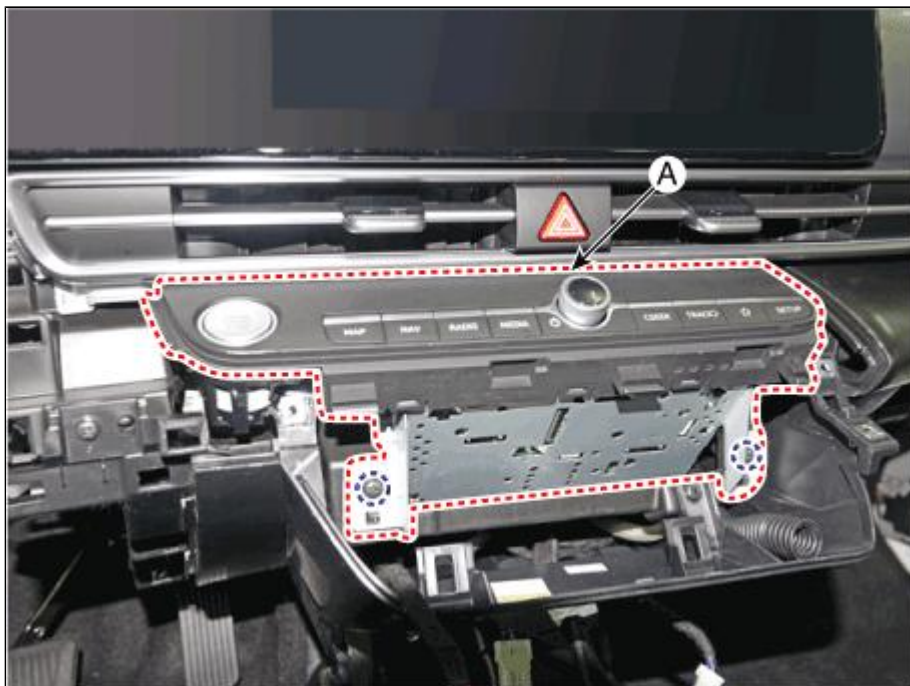


31. To install, reverse the removal procedure.

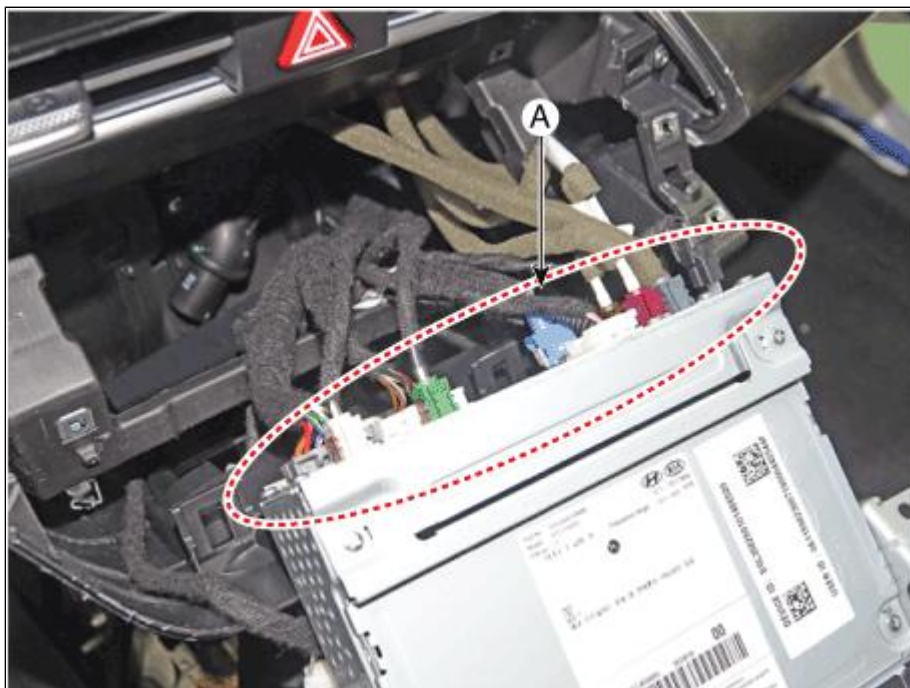
i Information

Make sure the crash pad fits onto the guide pins correctly.

6. Remove the AVN head unit (A) after loosening mounting screws.



7. Remove the AVN head unit connectors and cables (A).



Installation

1. Install the AVN head unit.
2. Install the heater & A/C control unit.
3. Install the crash pad garnish[CTR].
4. Install the floor console side garnish.
5. Install the steering column shroud upper panel.
6. Disconnect the negative (-) battery terminal.

CAUTION

Make sure that the cables and connectors are plugged in properly.
Check the AVN system for normal operation.

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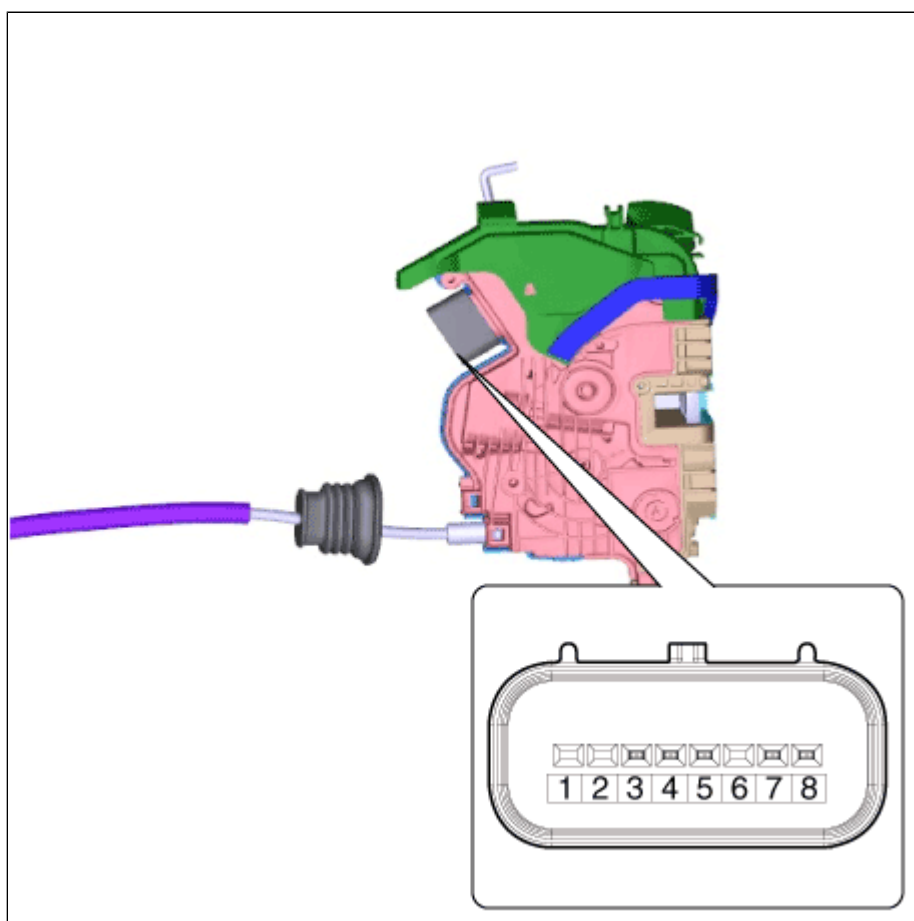
Inspection

⚠ CAUTION

- â Wrap the protective tape on the tool to disassemble with the screwdriver or remover.
- ¢
- â Use caution in keeping and handling during disassembling/assembling because it is easily contaminated
- ¢ with lubricant and oil.

Front Door Lock Module Inspection

1. Remove the front door trim.
(Refer to Body - "Front Door Trim")
2. Remove the front door module.
(Refer to Body - "Front Door Module")
3. Disconnect the connector from the actuator.



No	Pin Information	
	LH	RH
1	Key Lock switch	CL motor
2	Key Unlock switch	COM motor
3	COM	-
4	Lock / Unlock switch	AJAR switch
5	AJAR switch	Lock / Unlock switch
6	-	COM
7	COM motor	Key Unlock switch
8	CL motor	Key Lock switch