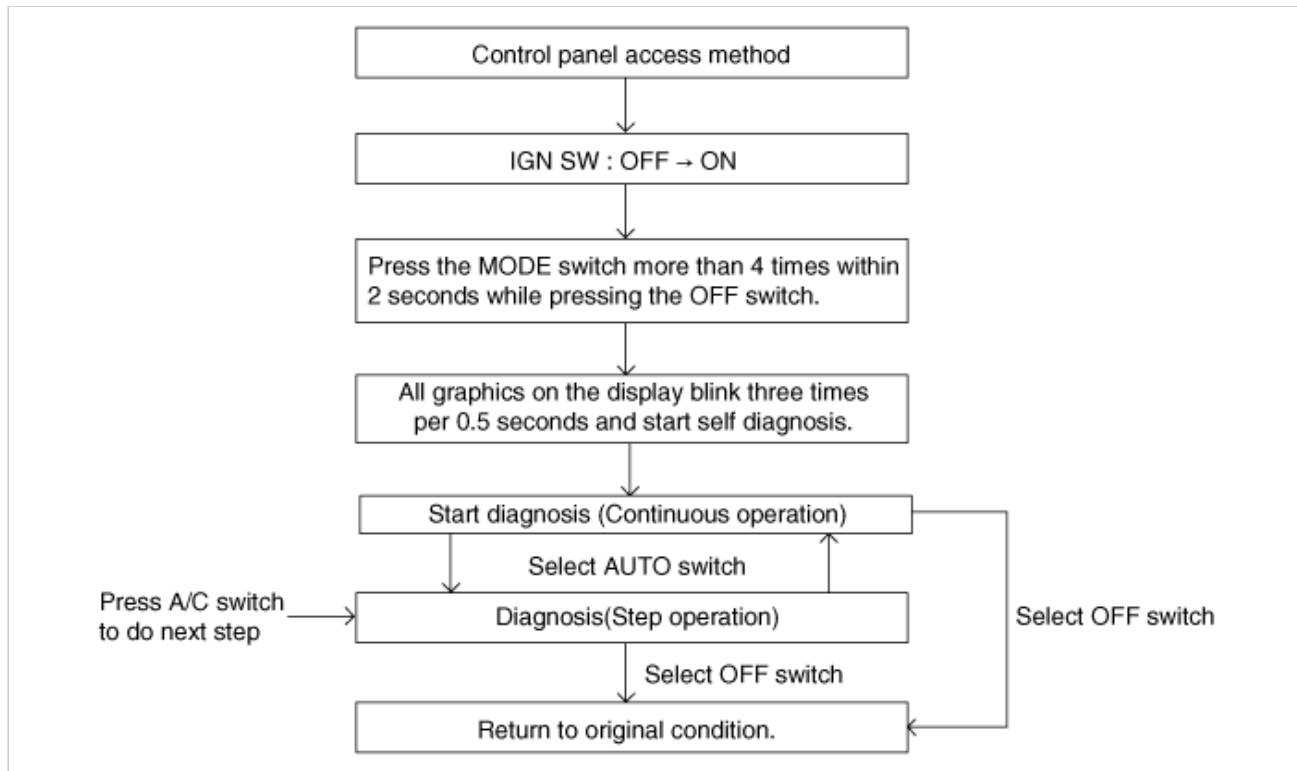




Self Diagnosis

1. Self-diagnostic process

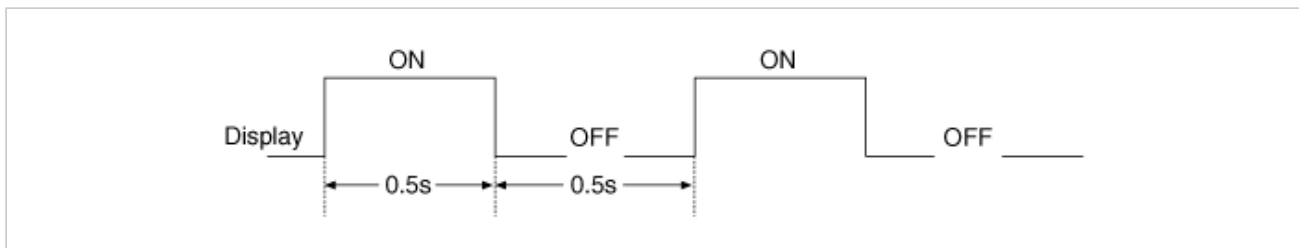


2. How to read self-diagnostic code

After the display panel flickers three times at 0.5 second intervals, the corresponding fault code flickers on the setup temperature display panel at 0.5 second intervals and two digit figure will be displayed. Codes are indicated in numerical format.

3. Fault code display

(1) Continuous operation : One DTC code

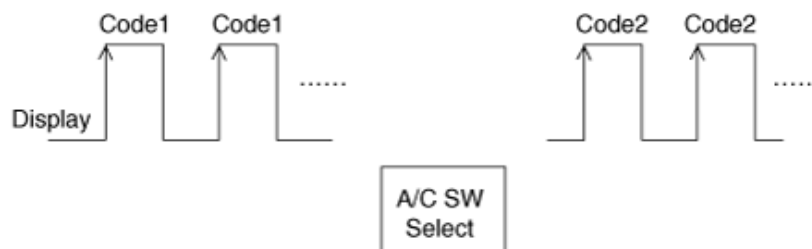


(2) Continuous operation : More than two DTC codes



(3) STEP operation

- A. Normal or one fault code is the same as the continuous operation.
- B. More than two DTC codes.



4. If fault codes are displayed during the check up, inspect possible causes of malfunction by referring to fault codes.

Display	Fail description
0	Normal
11	In-car sensor open
12	In-car sensor short
13	Ambient sensor open
14	Ambient sensor short
17	Evaporator sensor open
18	Evaporator sensor short
19	Temp door potentiometer open/short- Drive
20	Temp door potentiometer fault- Drive
21	Mode door potentiometer open/short
22	Mode door potentiometer fault
23	Auto defog sensor open
24	Auto defog sensor short
25	Intake door potentiometer open/short
26	Intake door potentiometer fault
32	Temp door potentiometer open/short - Passenger
33	Temp door potentiometer fault - Passenger
34	Console temp door potentiometer open/short
35	Console temp door potentiometer fault
36	Console on/off door potentiometer open/short
37	Console on/off door potentiometer fault
43	Auto defog potentiometer open/short
44	Auto defog potentiometer fault
45	APT CAN signal fault
47	RPM CAN signal fault
48	Vehicle speed CAN signal fault
49	Engine coolant temp CAN signal fault
66	Console temp switch open/short
71	ECV fault
72	Panel LIN communication fault

5. Fail safe

NO.	Item	Fault	Fail Safe
1	In-car Sensor	Open or Short	Control with the value of 25°C(77.0°F)
2	Ambient temperature sensor	Open or Short	Control with the value of 20°C(67°F)
3	Evaporator temperature sensor	Open or Short	Control with the value of -2°C(28.4°F)
4	TEMP DOOR POTENTIOMETER	Open or Short	

			If temperature setting is 17°C-24.5°C, fix at maximum cooling position.
			If temperature setting is 25°C-32°C, fix at maximum heating position.
5	MODE DOOR POTENTIOMETER	Open or Short	Fix vent position in vent mode.
			Fix defrost position in all modes except vent mode.
6	INTAKE DOOR POTENTIOMETER	Open or Short	Fix fresh position in fresh mode.
			Fix recirculation position in recirculation mode.
7	DEFOG DOOR POTENTIOMETER	Open or Short	Fix close position, while selecting close mode.
			Fix open position in other cases.
8	ECV	Open	CF_Fatc_EcvFlt = 01H (fault) ECV OFF, A/C Output OFF, Torque 0.2Nm
9	ADS	Open or Short	HUMIDITY 0%
11	C_SunRoofOpenState	NO reception	Control to the "close" value
17	F_N_ENG	NO reception	650 RPM
18	N	F_N_ENG="Error" or NO reception	650 RPM
20	RLY _ AC	NO reception	Comp OFF (ECV OFF)
21	VS (Vehicle Speed)	FFh or NO reception	VS-TCU (From TCU2)
22	VS TCU (Vehicle Speed Calculated by TCU)	FFh or NO reception	Control with the value of 0 km/h
27	PV_AV_CAN	FFh or NO reception	Control with the value of 0%
28	TEMP_ENG	FFh or NO reception	90°C
29	R _ PAcnC (APT Sensor Output Value)	FFh or NO reception	Control with the value of 0 hPa (ECV OFF)
32	R_TqAcnApvC	FFh or NO reception	Control with the value of 0Nm (ECV OFF)

Replacement

CAUTION

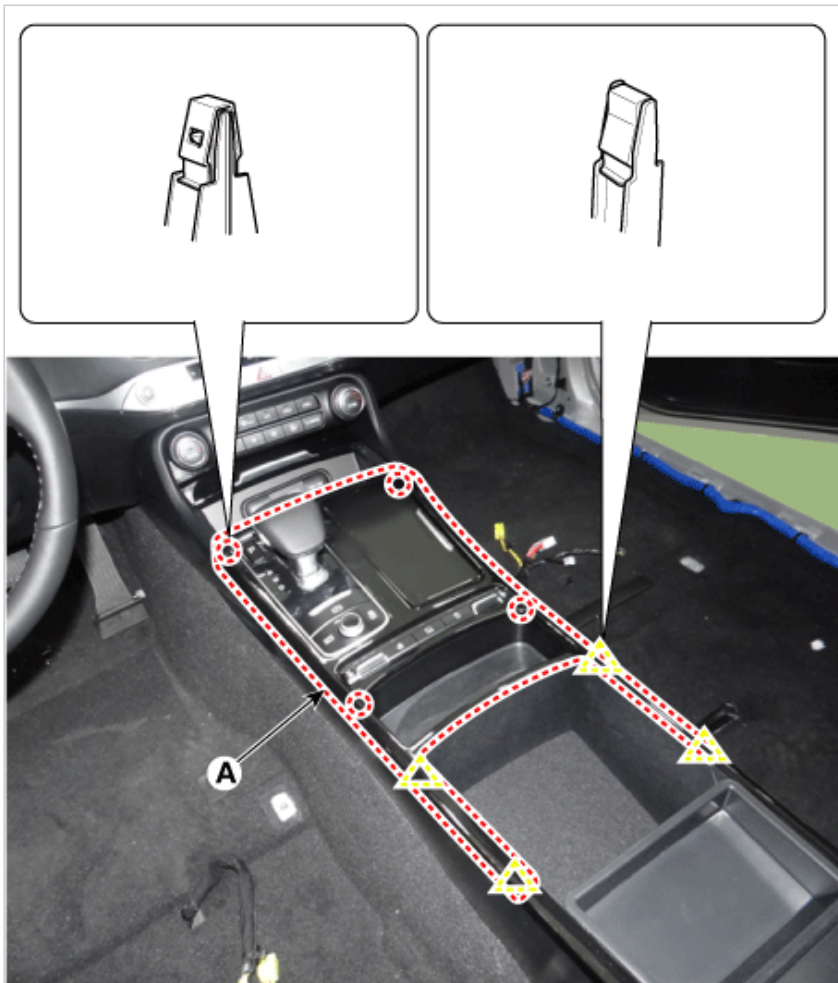
Put on gloves to protect your hands.

Information

- Use a plastic panel removal tool to remove interior trim pieces without marring the surface.
- Be careful not to bend or scratch the trim and panels.

[SBW type]

1. Remove the console upper cover (A) by using a remover.



2. Remove the console upper cover after disconnecting the console upper cover connectors (A).



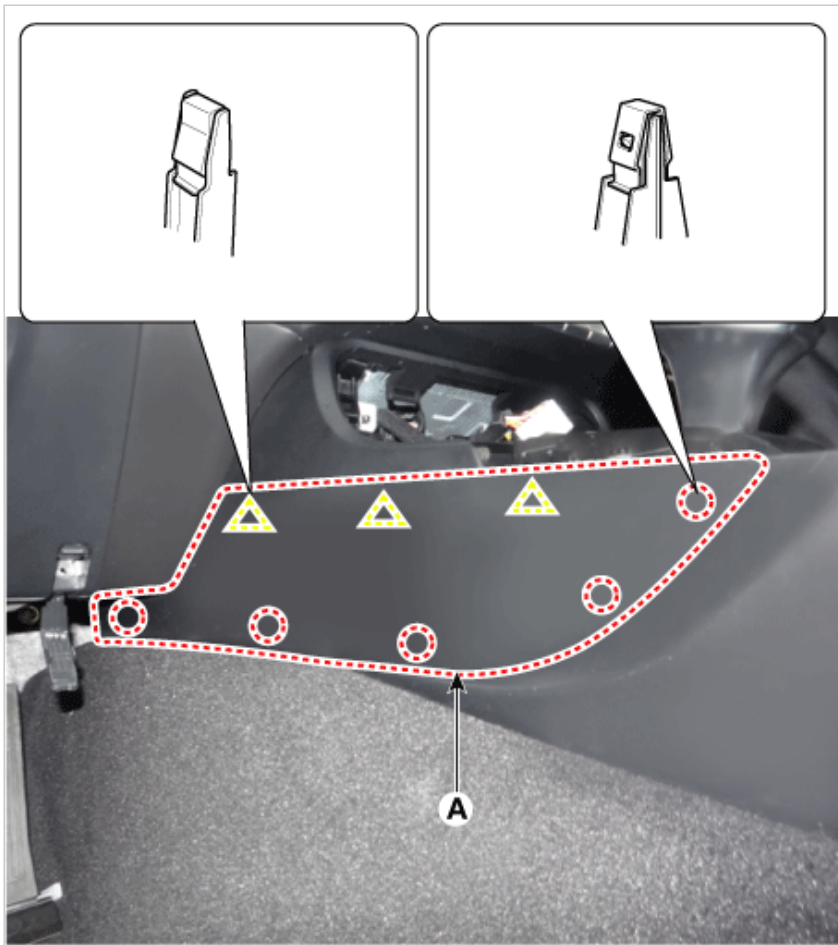
3. Remove the console storage box small tray (A).



4. Remove the console storage box mat (A).



5. Remove the console side molding (A).



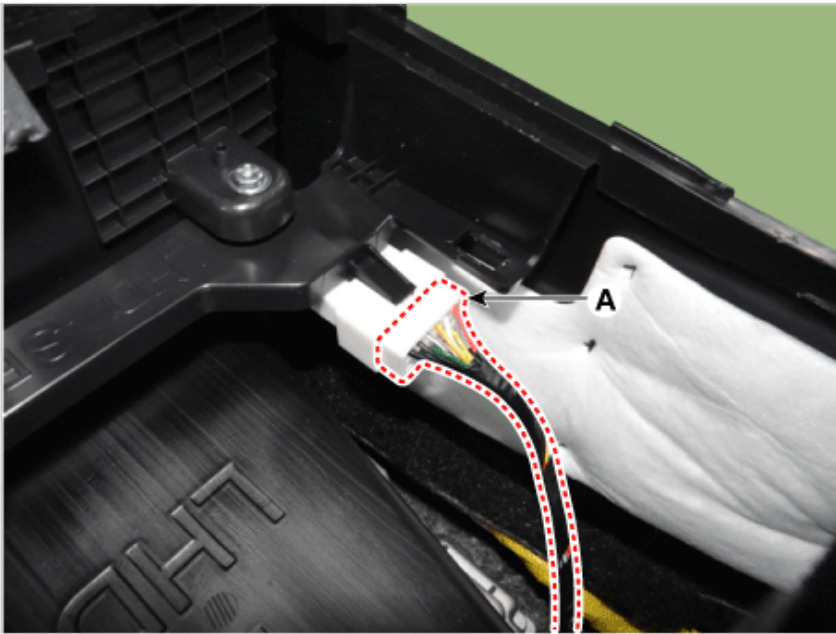
6. Loosen the mounting bolts (A).



7. Loosen the console mounting bolts.



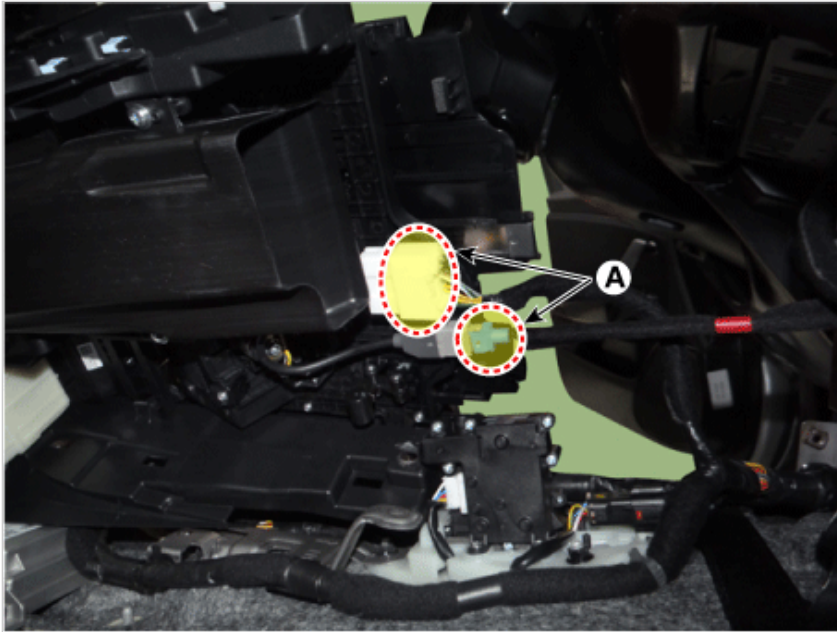
8. Disconnect the console upper side extension connectors (A).



9. Disconnect the electronic shift lever connector (A).



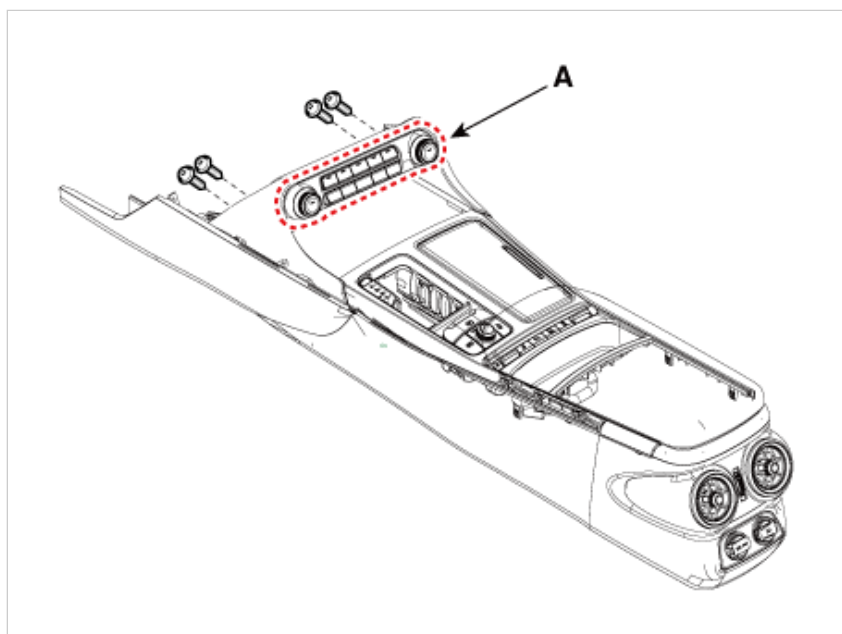
10. Disconnect the console lower side extension connectors (A).



11. Remove the heater control unit after disconnecting the connector (A).



12. Remove the A/C & heater unit (A) after loosening the mounting screws.



13. Install in the reverse order of removal.

i Information

- Make sure that the connectors are connected properly.
- Replace any damaged clips.