

Component
Location



- | | |
|-------------------|-----------------|
| 1. Audio unit | 4. USB jack |
| 2. Front monitor | 5. Roof antenna |
| 3. Audio keyboard | 6. Mic |

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Specifications

Audio Unit

Item		Specification
Power supply		DC 14.4V
Parasitic current		Max. 40W X 4
Impedance		4 Ω x 4
Antenna		80PF 75Ω
Tuning type		PLL synthesized type
Frequency range /Channel space	FM	87.5 ~ 108.0 MHz/100 KHz
	AM	531 ~ 1602 KHz/9 KHz

Components

Compact Audio



Connector Pin Information

No	Connector A	Connector B
1	Rear left speaker (+)	MM_CAN (HIGH)
2	Front left speaker (+)	-
3	Front right speaker (+)	-
4	Rear right speaker (+)	Steering wheel remote
5	-	-
6	Door open	USB D (+)
7	IGN 1	USB VOC
8	Illumination (+)	-
9	-	-
10	Rear left speaker (-)	MIC (+)
11	Front left speaker (-)	ACC
12	Front right speaker (-)	Battery (+)
13	Rear right speaker (-)	MM_CAN (LOW)
14	-	-
15	-	-
16	-	Vehicle Speed
17	Illumination (-)	Steering wheel remote GND
18	-	USB D (-)
19		USB GND
20		-
21		-
22		MIC (-)

23	-
24	GND



Display Audio



Connector Pin Information

Pin	Connector A	Connector B
1	Rear left door speaker (+)	-
2	Rear left door speaker (-)	Mic (+)
3	-	-
4	-	-
5	Keyboard reset	-
6	Camera power	Illumination (+)
7	Camera video	M-CAN (High)
8	-	-
9	-	-
10	-	Battery (+)
11	USB DETECT	Battery (+)
12	Steering wheel remote	Ground
13	Front left door speaker (+)	Ground
14	Front left door speaker (-)	-
15	Front right door speaker (-)	Mic (-)
16	Front right door speaker (+)	Camera equipment detect2
17	-	-
18	-	-
19	-	Illumination (-)
20	Camera power ground	M-CAN (Low)

21	Camera video ground	-
22	-	ACC
23	-	Keyboard power
24	-	Front monitor power
25	-	-
26	Steering wheel remote ground	-
27	Rear right door speaker (-)	-
28	Rear right door speaker (+)	-
29	-	-
30	-	-
31	-	-
32	Camera equipment Detect1	-
33	-	IGN 1
34	-	Keyboard ground
35	-	Front monitor ground
36	-	
37	-	
38	Vehicle Speed	



Removal

Display audio

1. Disconnect the negative (-) battery terminal.
2. Remove the front monitor lower cover (A).

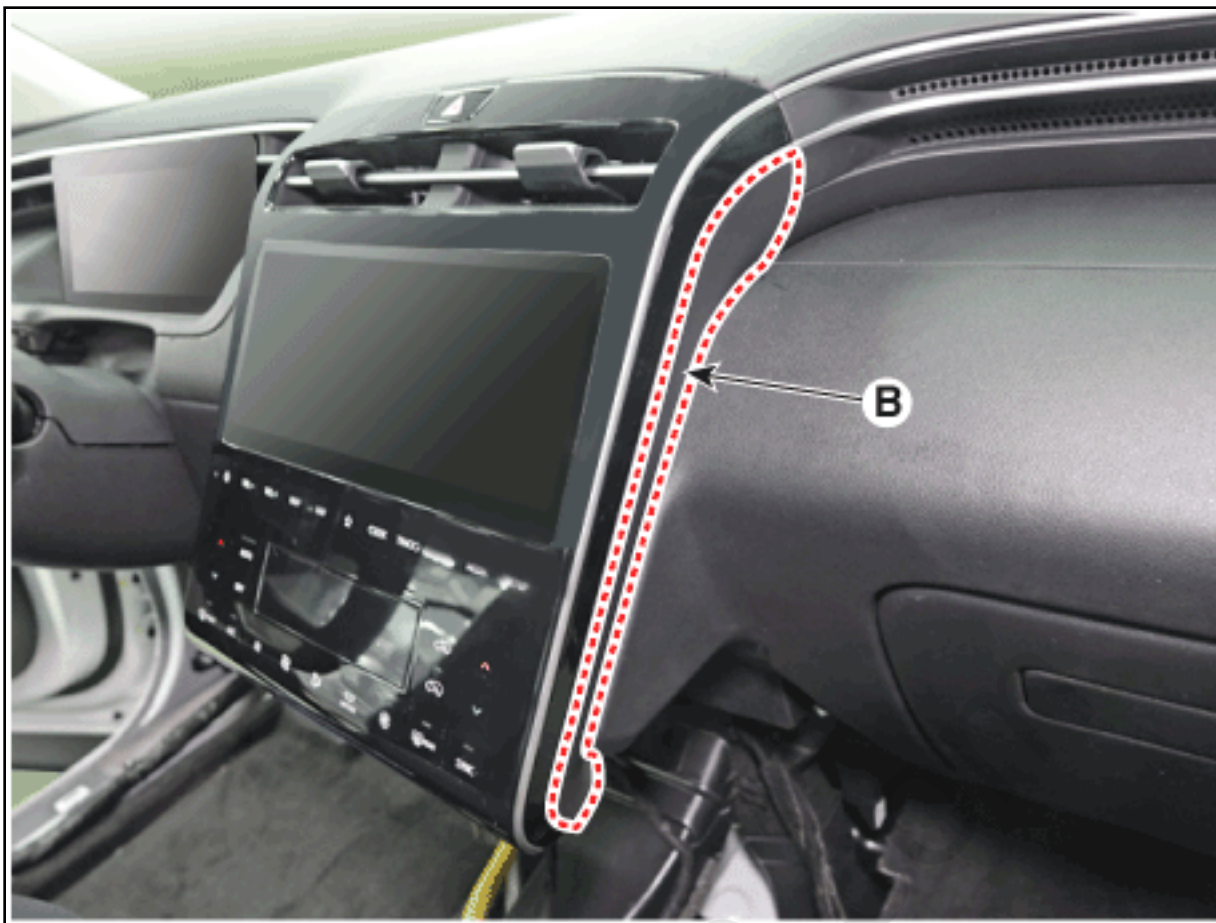


3. Remove the front monitor lower cover after disconnecting the mood lamp connector (A).



4. Remove front monitor side cover (A) and (B).

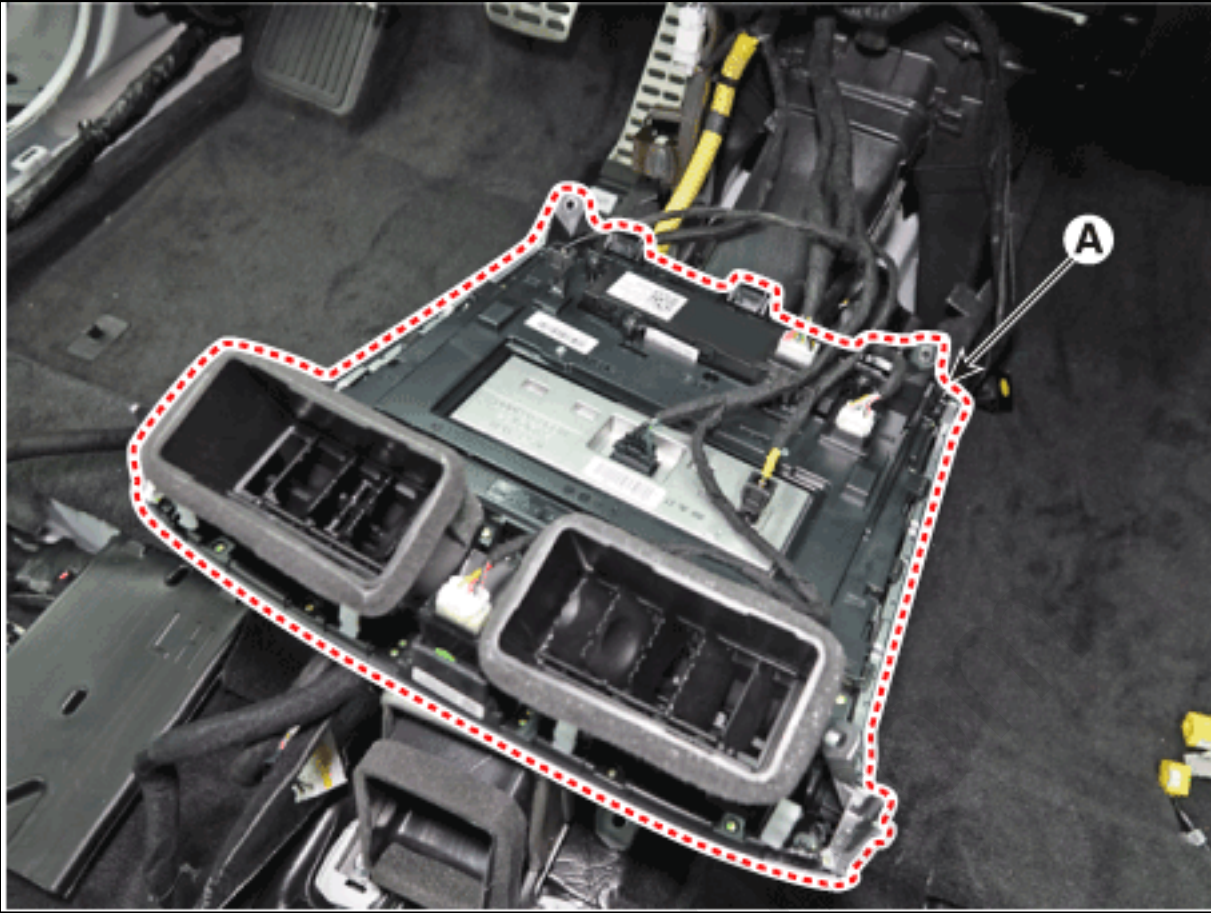




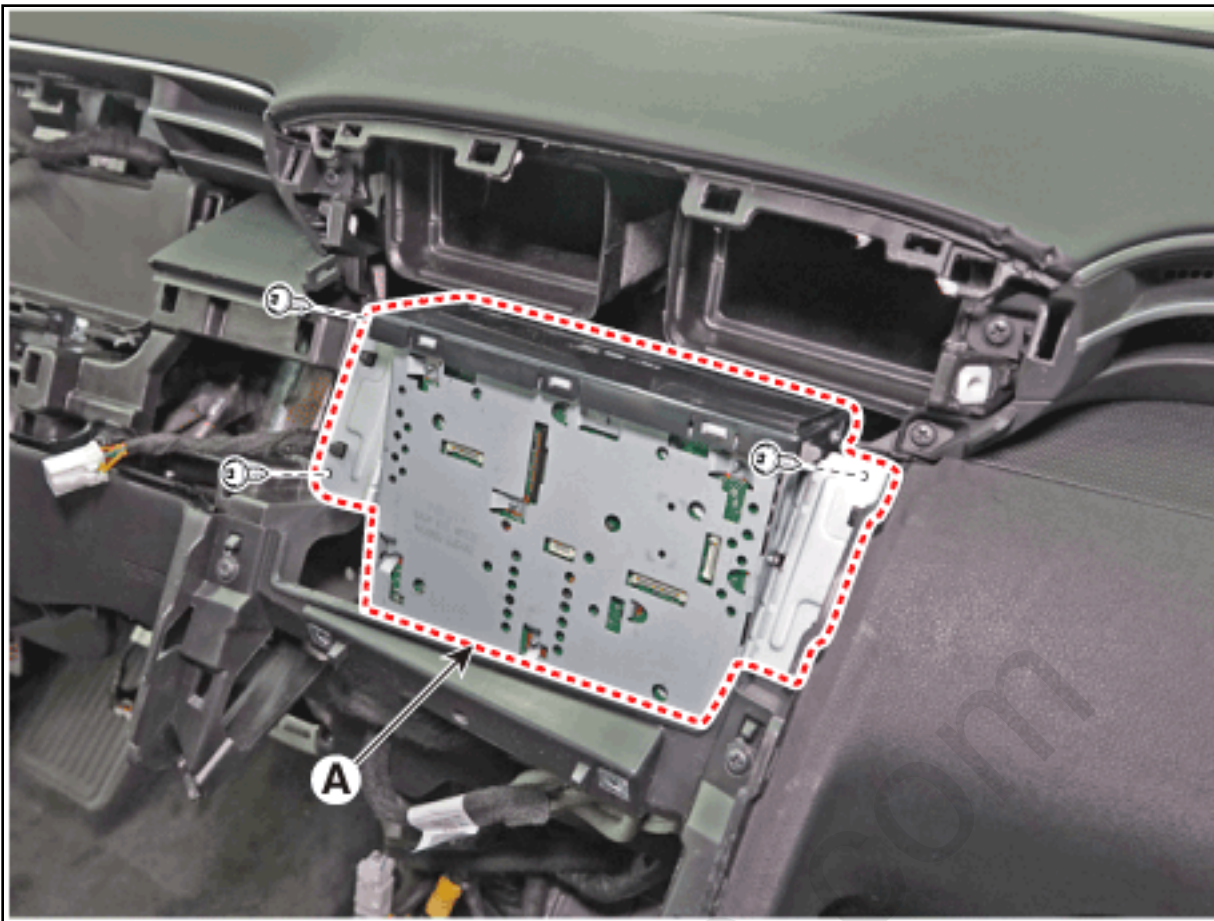
5. Remove the front monitor assembly (A).



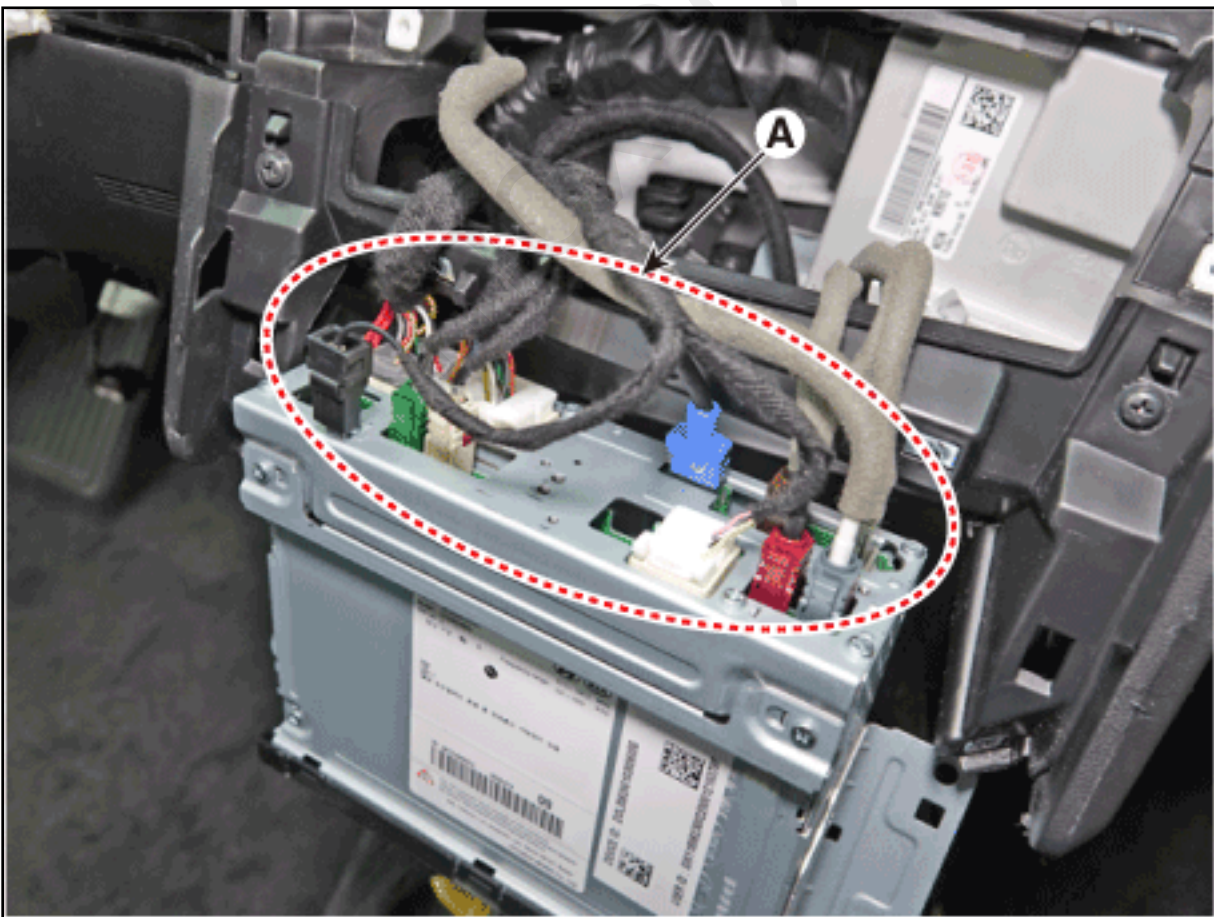
6. Remove the front monitor assembly (A) after disconnecting monitor connectors.



7. Remove the audio unit (A) after loosening mounting screws.



8. Remove the audio unit after disconnect audio connectors (A).



Audio

1. Disconnect the negative (-) battery terminal.
2. Remove the front monitor lower cover (A).

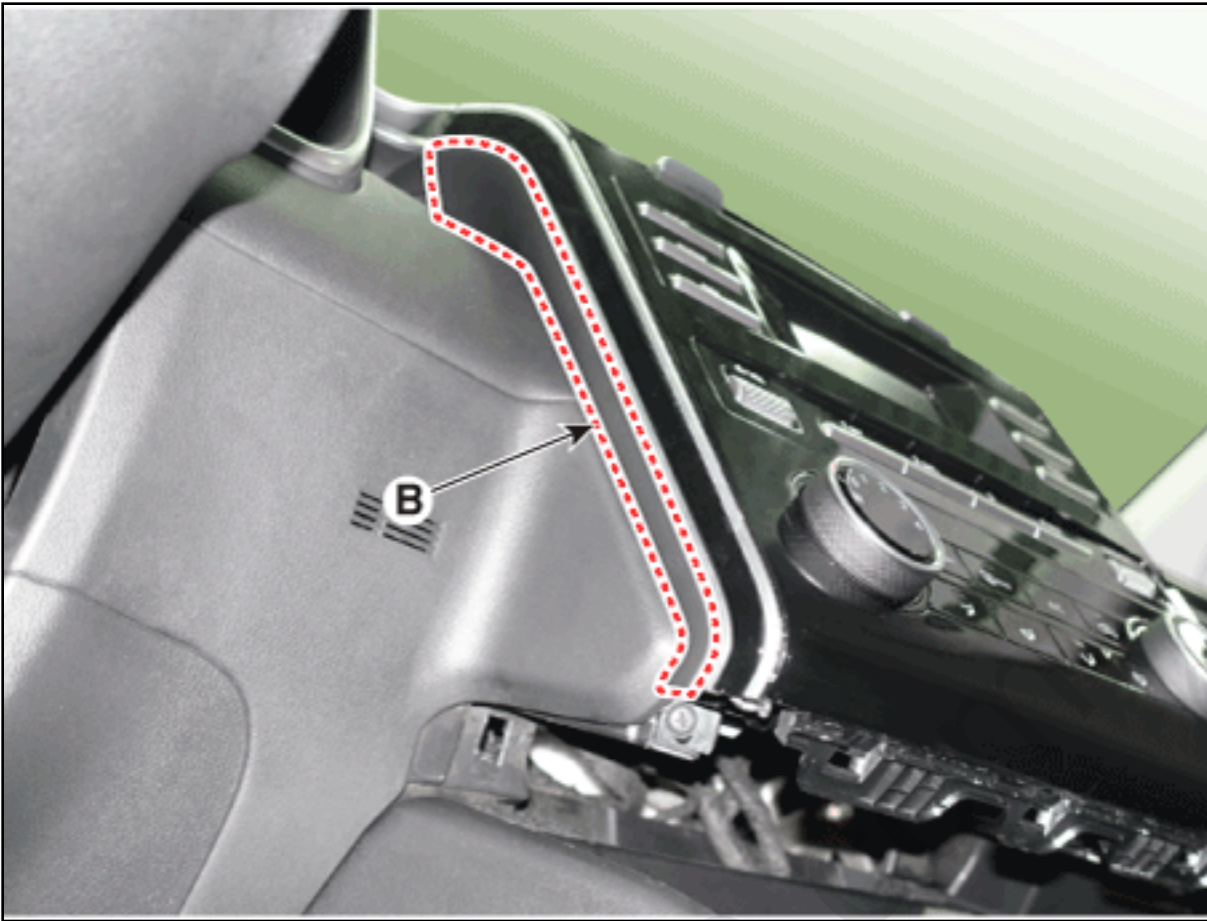


3. Remove the front monitor lower cover (A) after disconnecting the mood lamp connector (A).



4. Remove front monitor side cover (A) and (B).





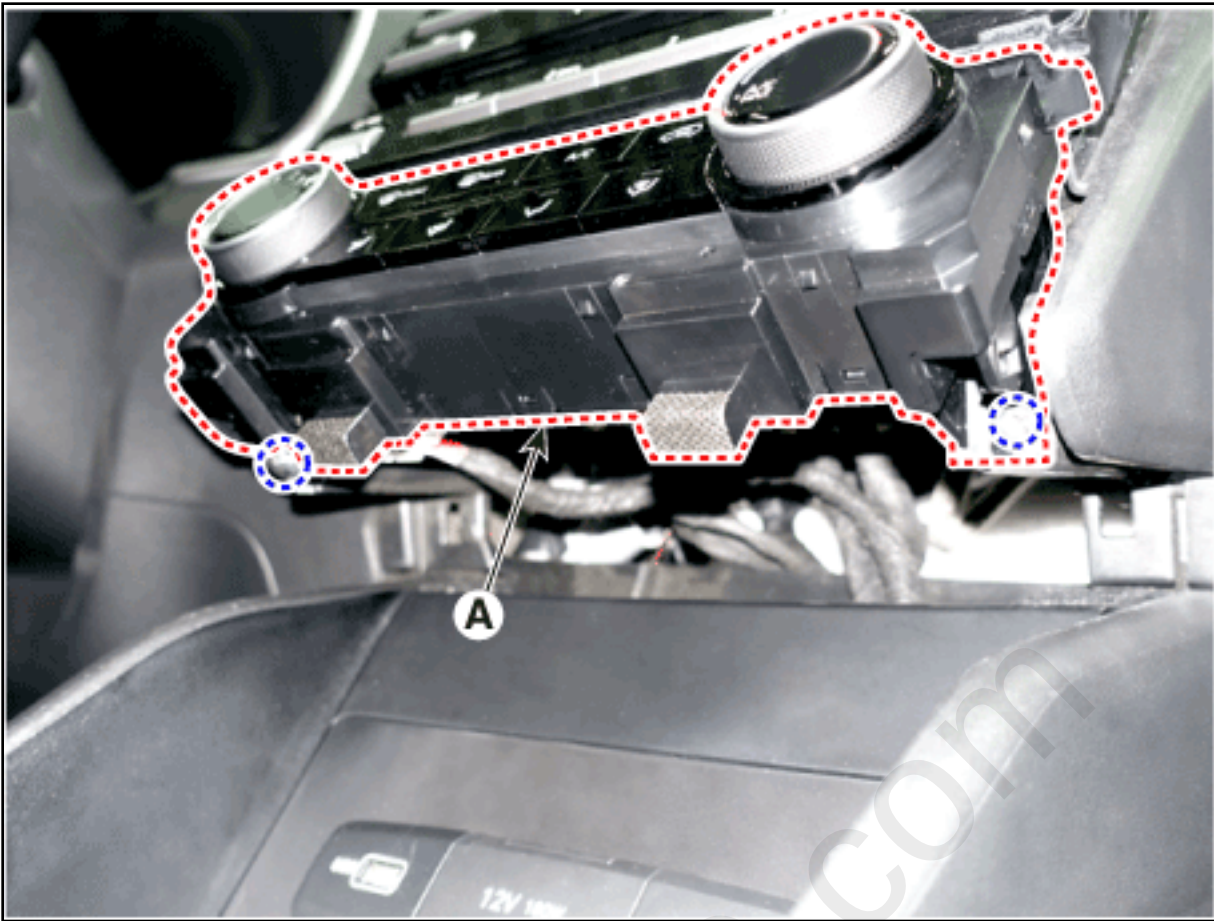
5. Remove the front monitor cover (A) after loosening mounting screws.



6. Remove the Front monitor cover after disconnect the hazard switch connector (A).



7. Remove the heater control unit (A) after loosening mounting screws.



8. Remove the heater control unit after disconnecting connectors.



9. Remove the audio unit (A) after loosening mounting screws.



10. Remove the audio unit after disconnecting connectors.



Installation

Display audio

1. Install audio connectors and antenna connectors.
2. Install the audio unit.
3. Install the front monitor assembly.
4. Install the front monitor side cover.
5. Install the front monitor lower cover.
6. Connect the negative (-) battery terminal.



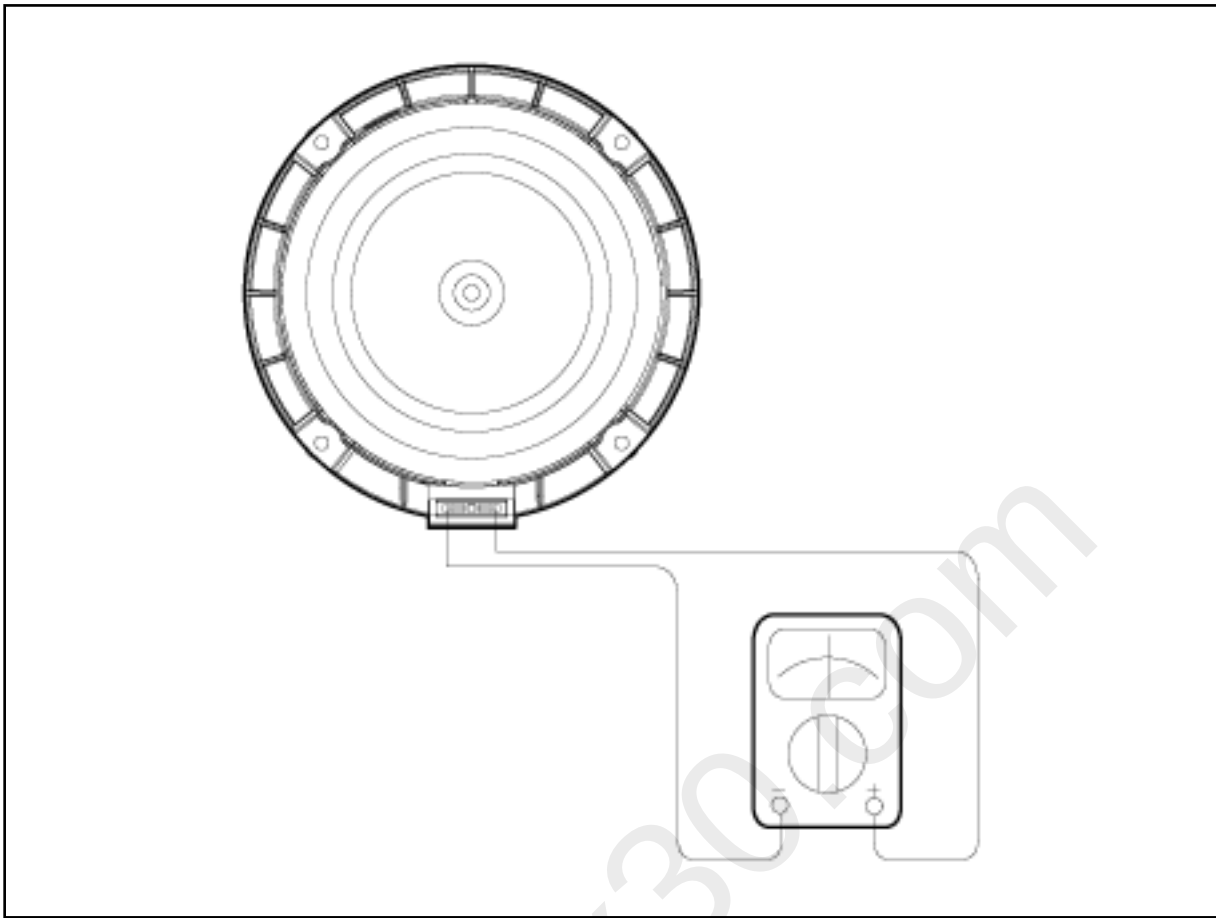
- Make sure the connector are connected in properly.
- Check the audio system for normal operation.

Audio

1. Install audio connectors and antenna connectors.
2. Install the audio unit.
3. Install the front monitor assembly.
4. Install the front monitor cover.
5. Install the front monitor side cover.
6. Install the front monitor lower cover.
7. Connect the negative (-) battery terminal.

Inspection

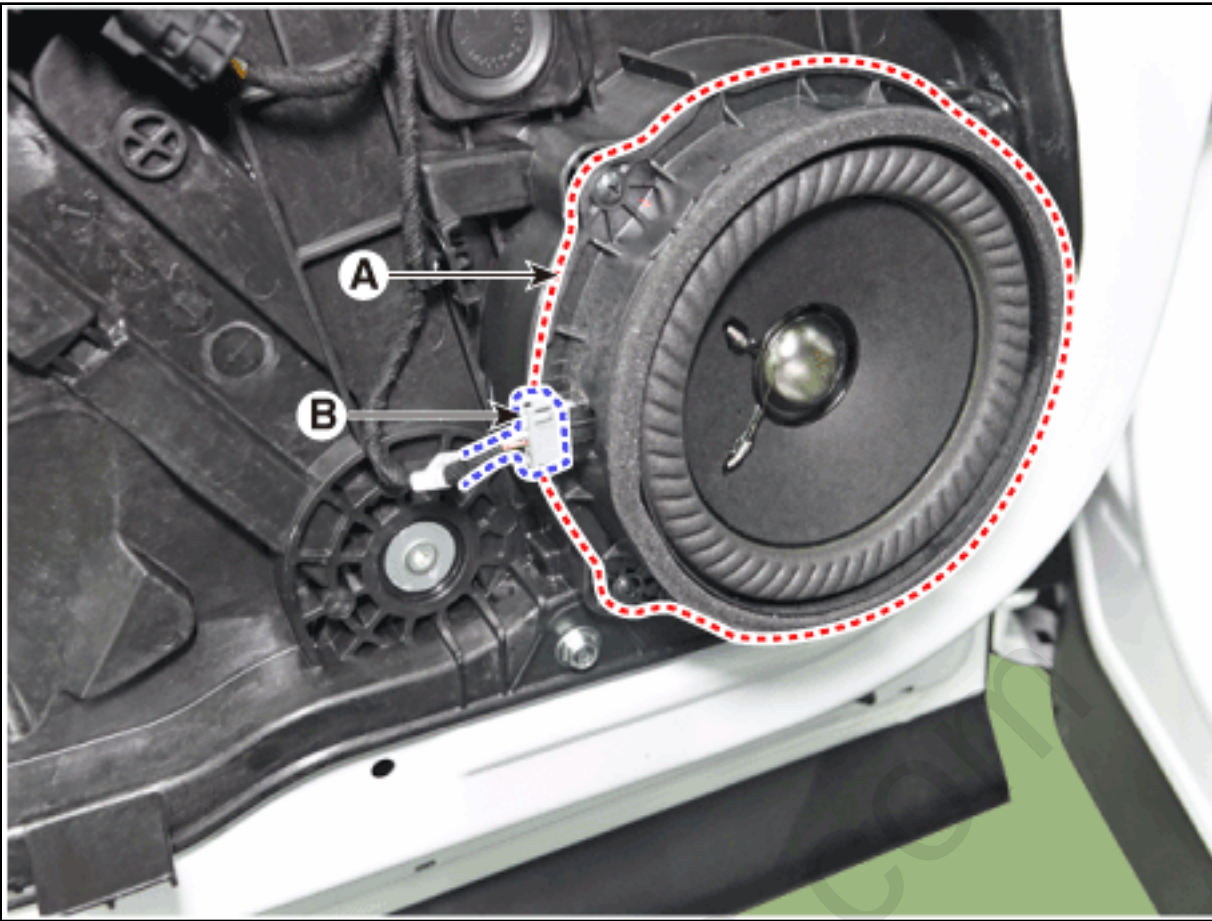
1. Check the plus (+) and negative (-) speaker terminals using an ohmmeter.
2. Check the supply power to the speaker and the resistance, then inspect the sound quality.



Removal

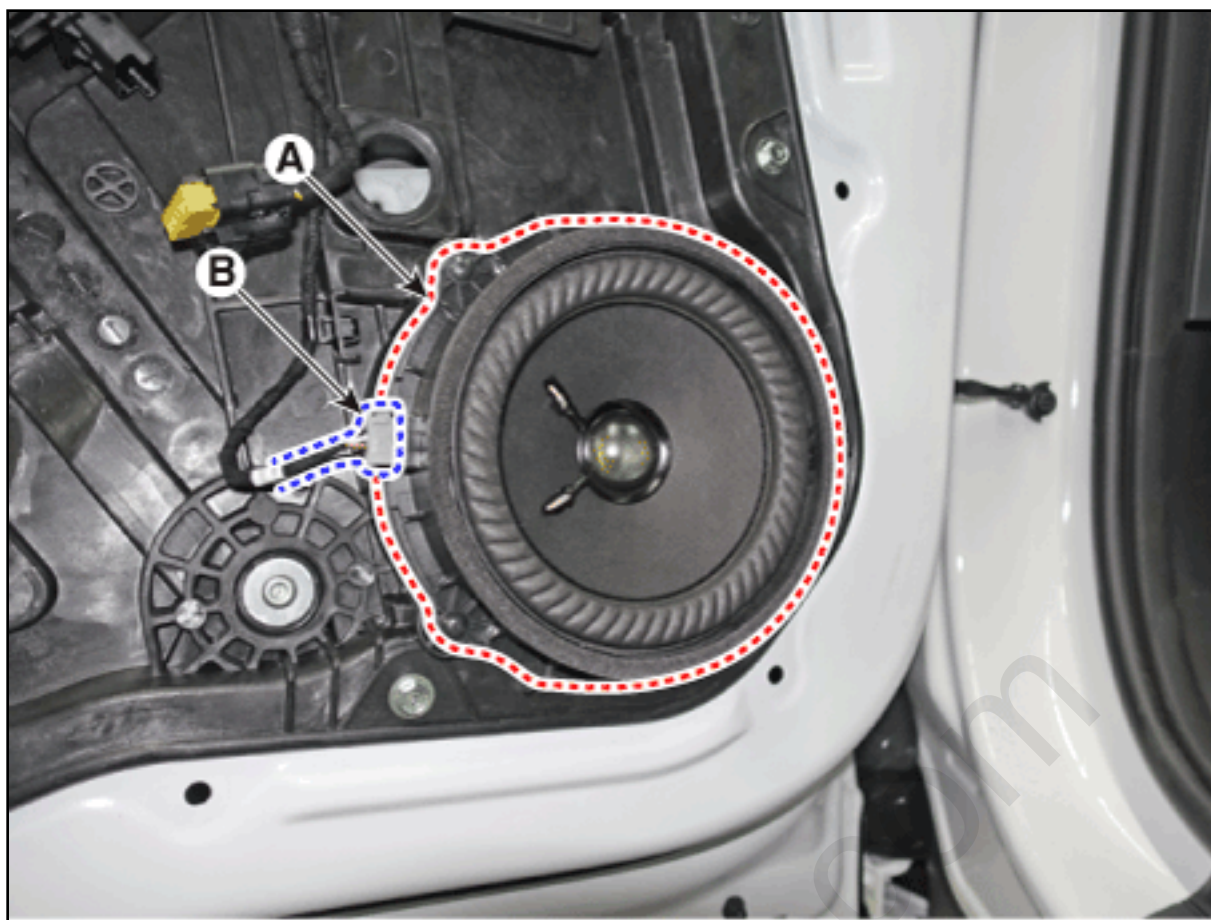
Front Door Speaker

1. Remove the front door trim.
(Refer to Body - "Front Door Trim")
2. Disconnecting the connector (B) and then remove the front speaker (A) after loosening screws.



Rear Door Speaker

1. Remove the rear door trim.
(Refer to Body - "Rear Door Trim")
2. Remove the rear speaker (A) after loosening the screws before disconnecting connector (B).



Tweeter Speaker

1. Using a screwdriver or remover, remove the front door quadrant inner cover (A).



2. Remove the tweeter speaker connector (A).



3. Remove the tweeter speaker (A) after loosening mounting screws.



Installation

Front Door Speaker

1. Install the front speaker.
2. Install the front door trim.

Rear Door Speaker

1. Install the rear speaker.
2. Install the rear door trim.

Tweeter Speaker

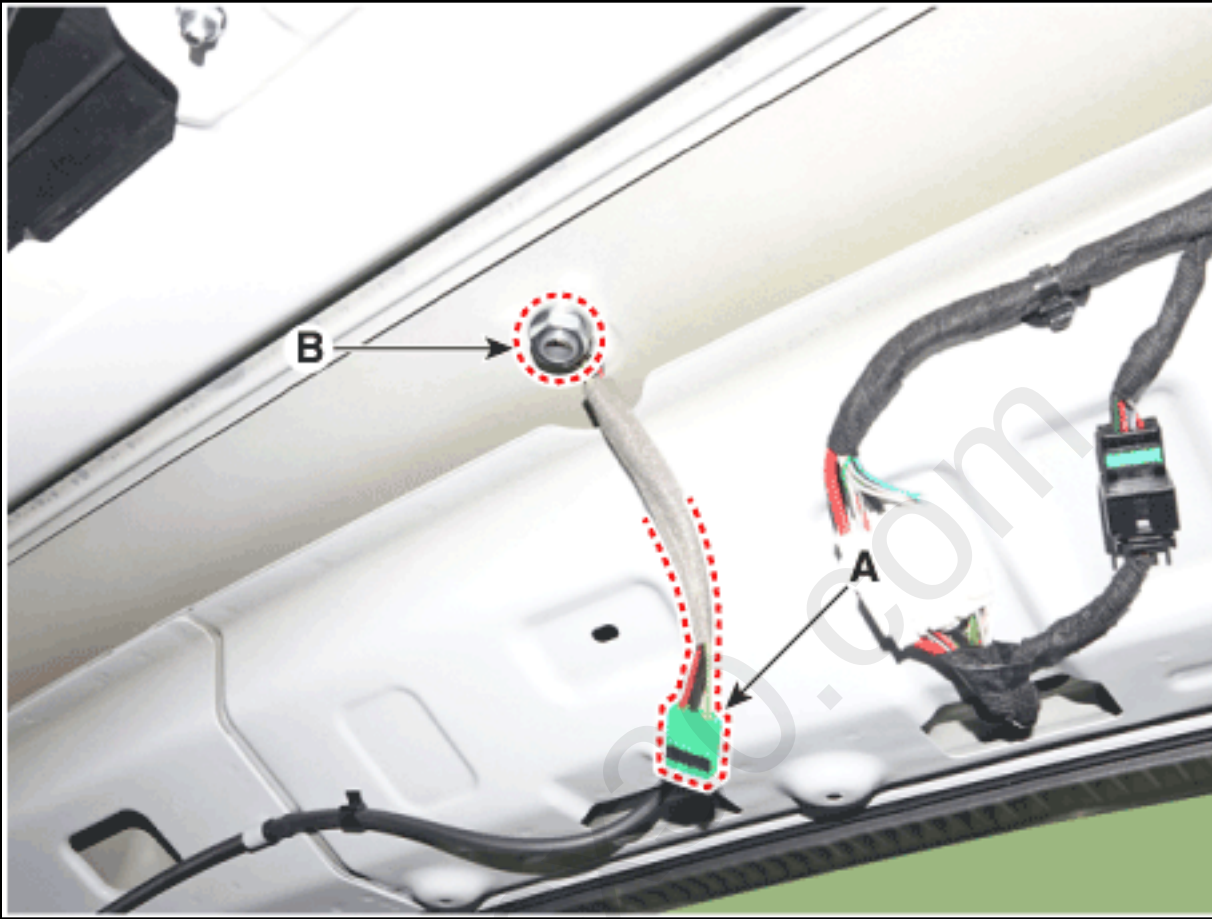
1. Install the tweeter speaker.
2. Install the front door quadrant inner cover.



- Make sure the connector are connected in properly.
- Check the audio system for normal operation.

Removal

1. Disconnect the negative (-) battery terminal.
2. Remove the rear roof trim.
(Refer to Body - "Roof Trim Assembly")
3. Disconnect the roof antenna connectors (A) and then remove the mounting nut (B).



Installation

1. Install the roof antenna.
2. Connect the antenna connector and then install the mounting nut.
3. Install the roof trim.
4. Connect the negative (-) battery terminal.



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

Components

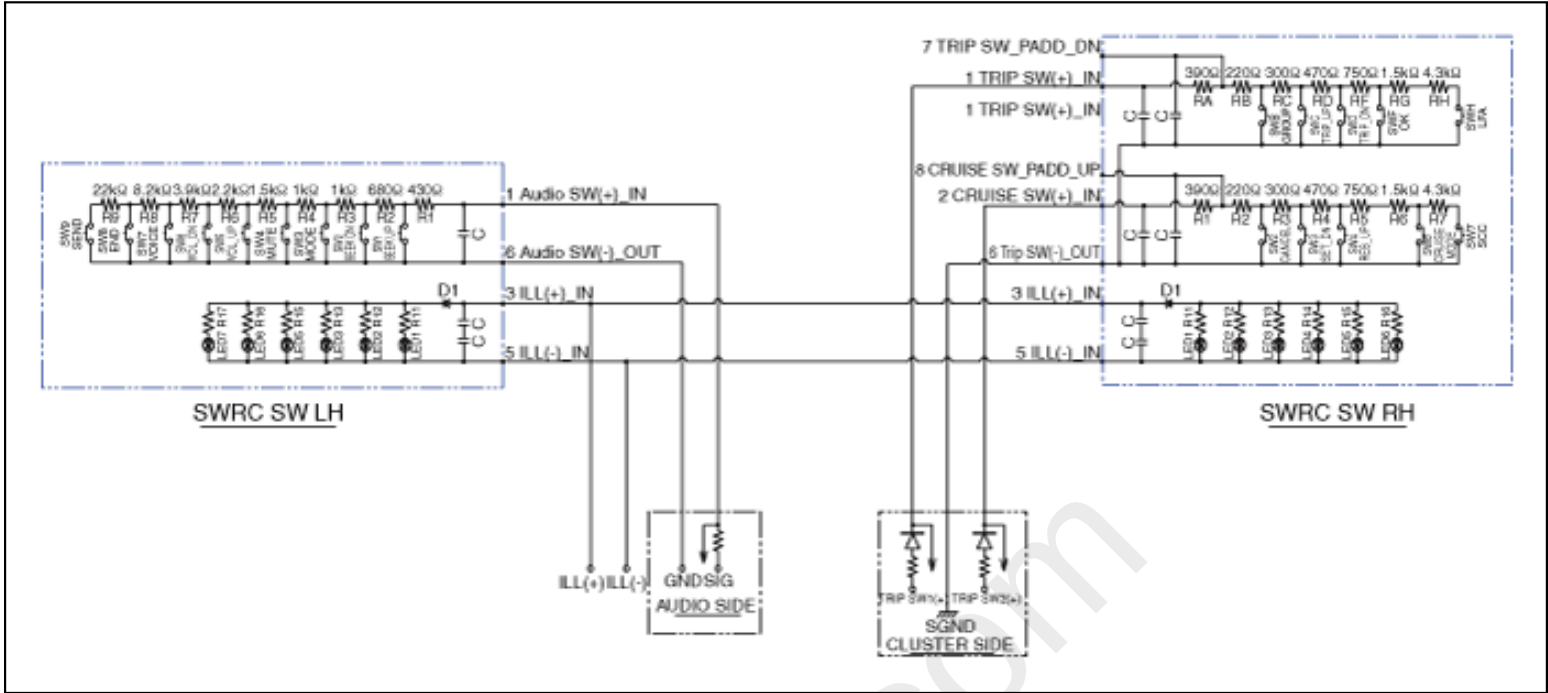


1. Left Remote Control Switch (Audio)

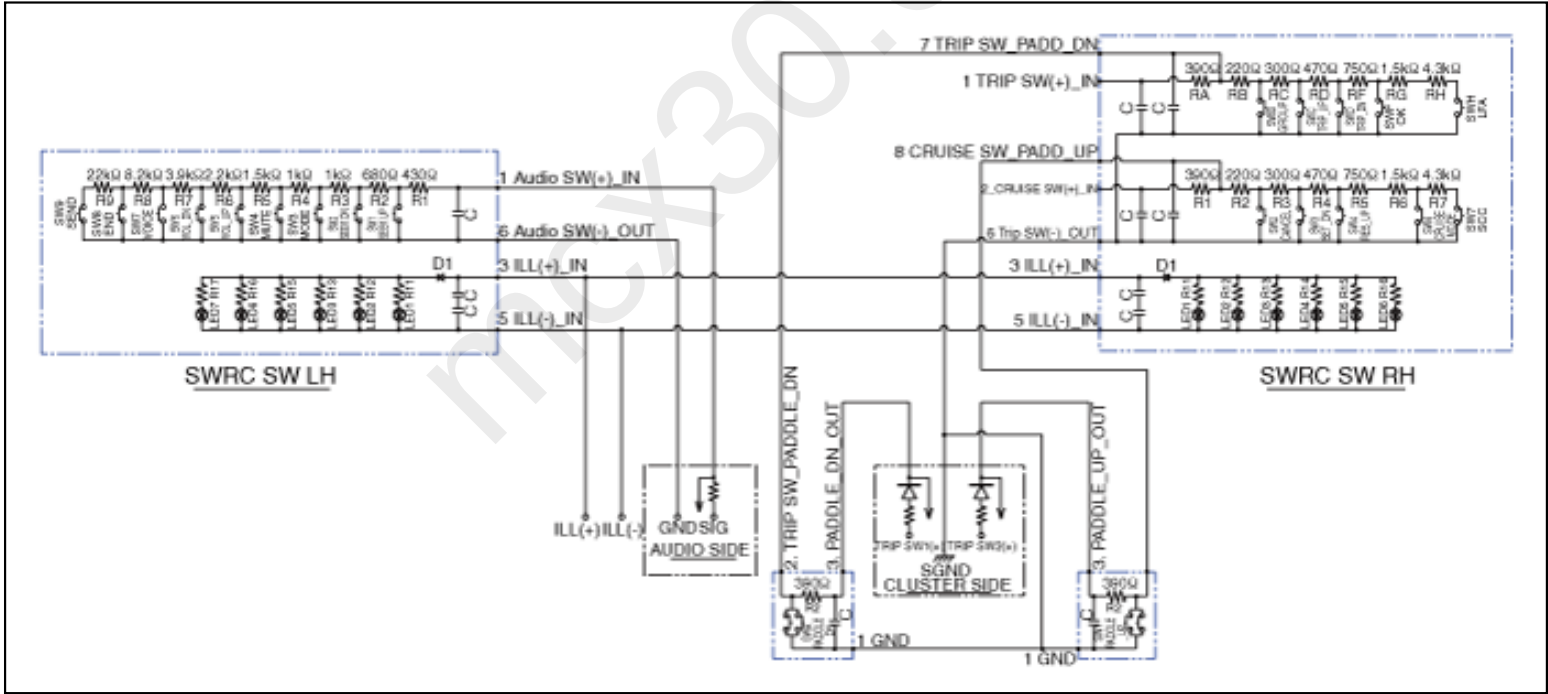
2. Right Remote Control Switch (Cruise)

Schematic
Diagrams

Audio + B/Tooth+Voice+TRIP+SCC+MSLA+LFA



Audio + B/Tooth+Voice+TRIP+SCC+MSLA+LFA+Paddle Shift



Audio + B/Tooth



Audio + B/Tooth+Voice



Trip+CC+MSLA+LFA



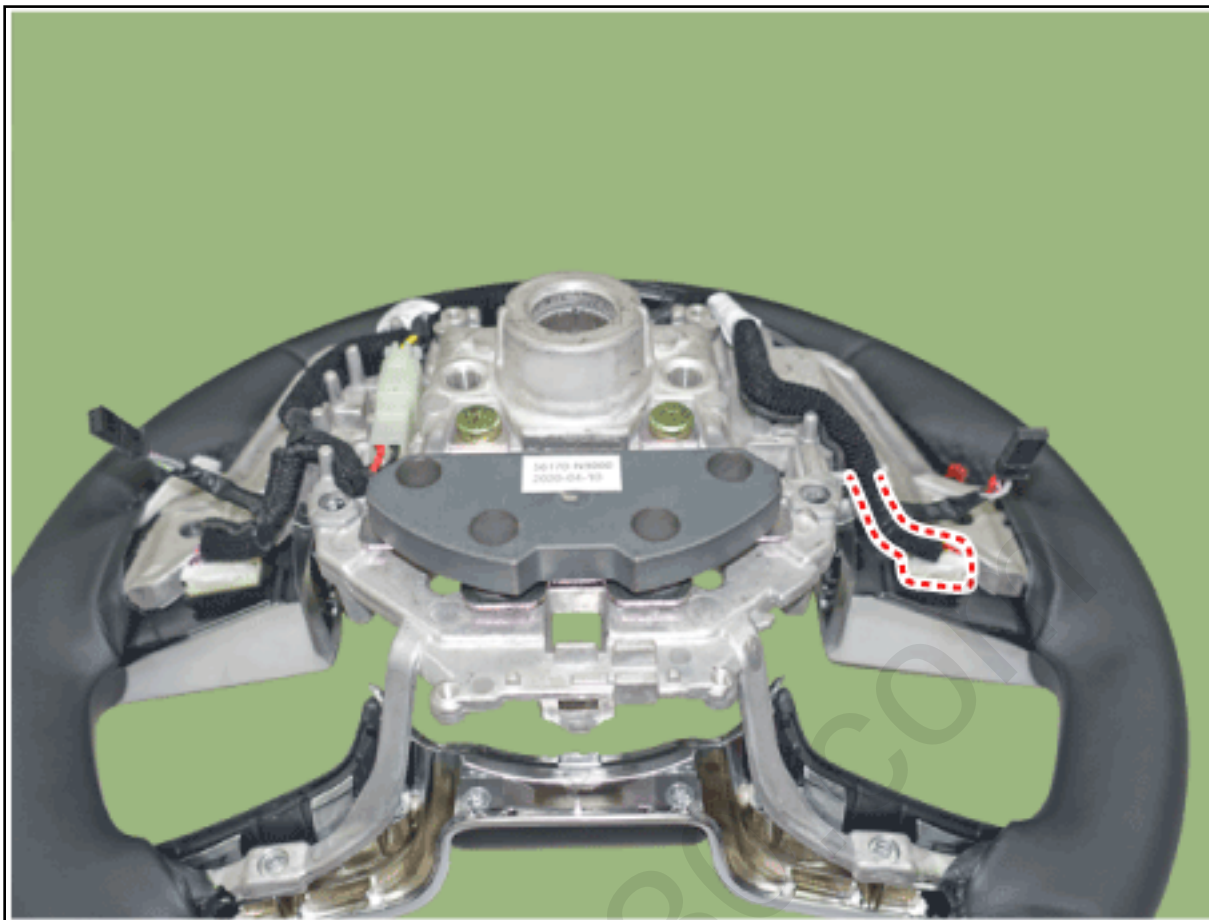
Trip+SCC+MSLA+LFA



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Inspection

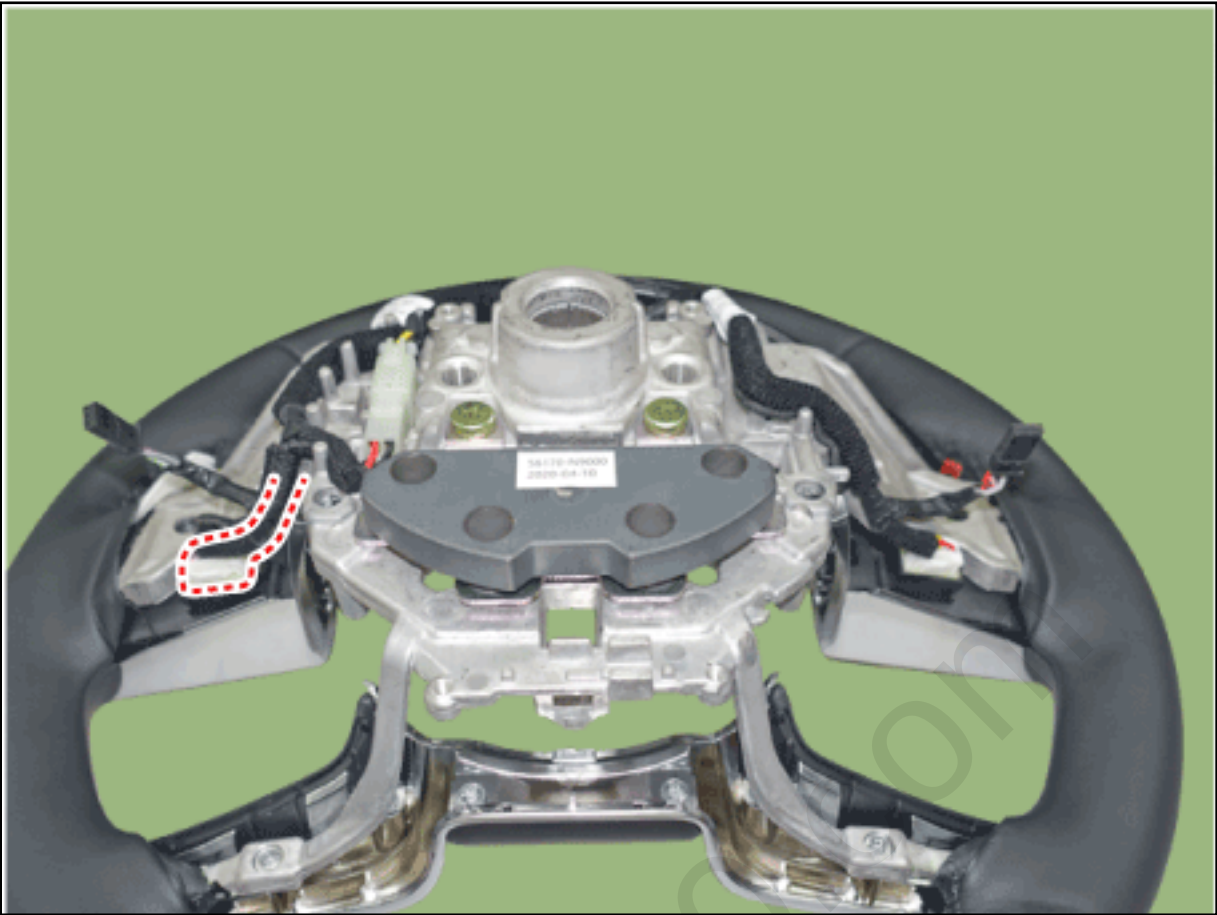
1. Check for resistance between terminals in each switch position (LH).



[Audio/Voice]

Switch	Connector terminal	Resistance (±5%)
SEEK Up	1 ~ 6	430 Ω
SEEK Down	1 ~ 6	1.1 k Ω
MODE	1 ~ 6	2.11 k Ω
MUTE	1 ~ 6	3.11 k Ω
Volume (+)	1 ~ 6	4.61 k Ω
Volume (-)	1 ~ 6	6.81 k Ω
Voice	1 ~ 6	10.71 k Ω
END	1 ~ 6	18.91 k Ω
SEND	1 ~ 6	40.91 k Ω
Paddle shift (Up)	1 ~ 8	390 Ω

2. Check for resistance between terminals in right switch position.



[Trip/Cruise]

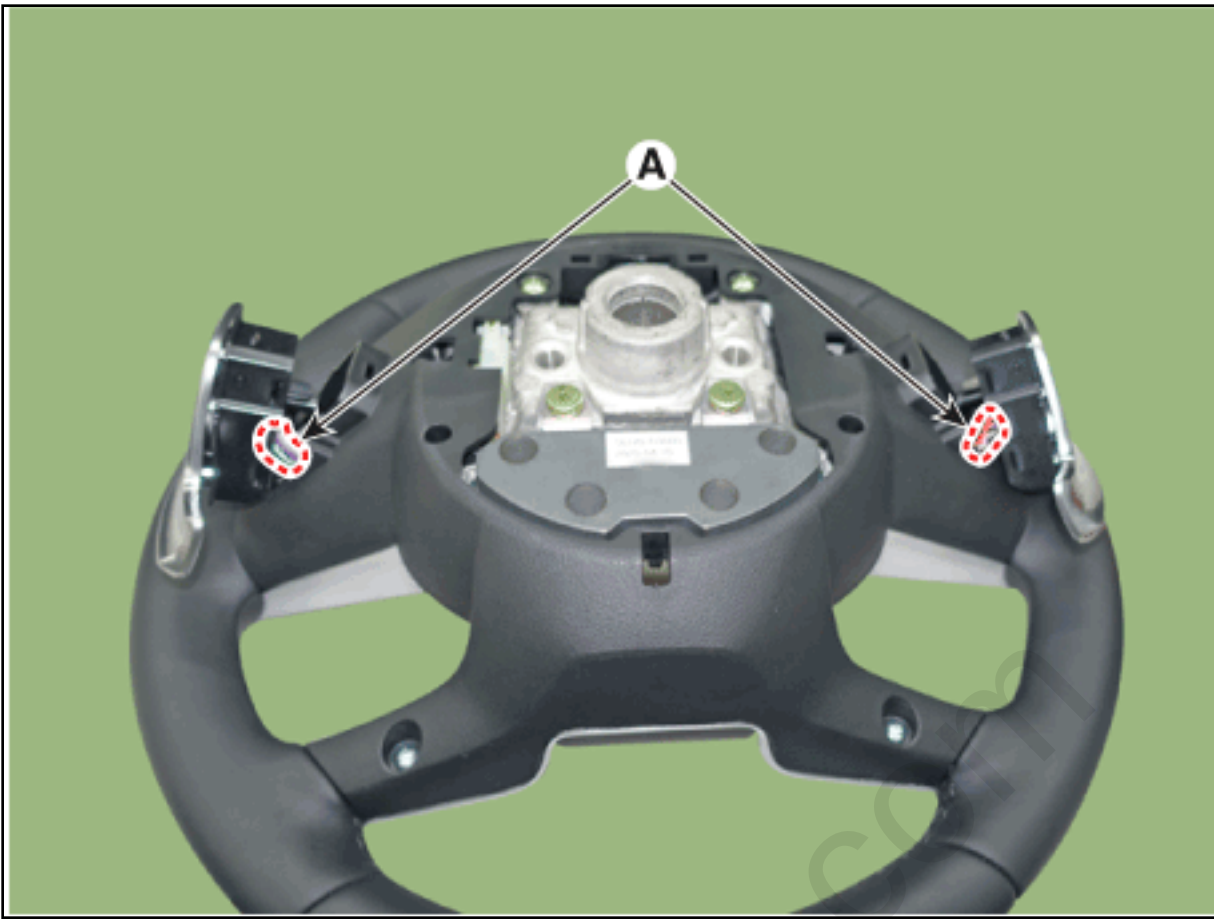
Switch	Connector terminal	Resistance (± 3%)
CANCEL	2 ~ 6	610 Ω
SET (-)	2 ~ 6	910 Ω
RES (+)	2 ~ 6	1.38 kΩ
Cruise ON/OFF	2 ~ 6	2.13 kΩ
Cruise & MSLA ON/OFF	2 ~ 6	3.63 kΩ
Smart Cruise	2 ~ 6	7.93 kΩ
Paddle shift (Down)	1 ~ 7	390 Ω
Trip Group	1 ~ 6	610 Ω
Trip Up	1 ~ 6	910 kΩ
Trip Down	1 ~ 6	1.38 kΩ
Trip OK	1 ~ 6	2.13 kΩ

Removal

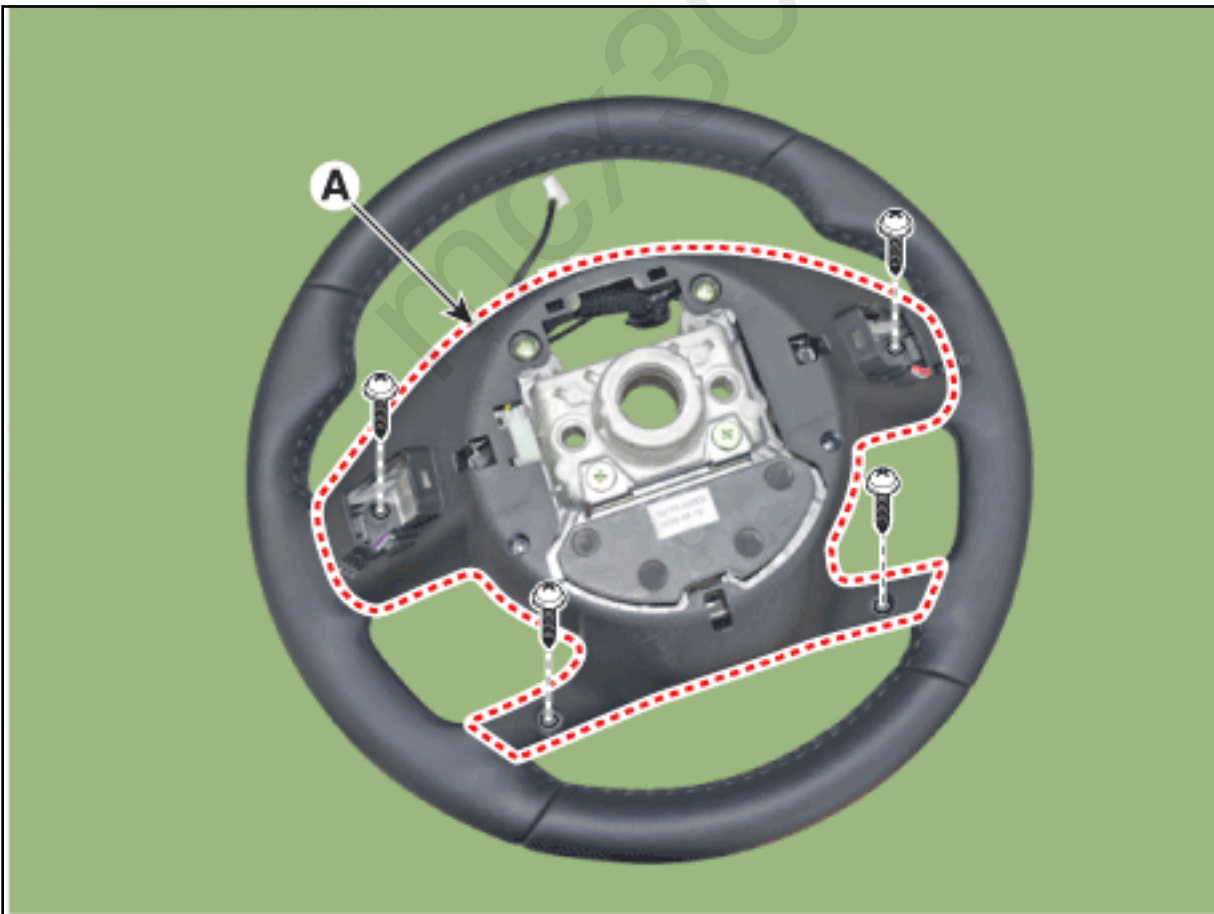
1. Disconnect the negative (-) battery terminal.
2. Remove the steering wheel.
(Refer to Steering System - "Steering Wheel")
3. Remove the paddle shift lever (A).



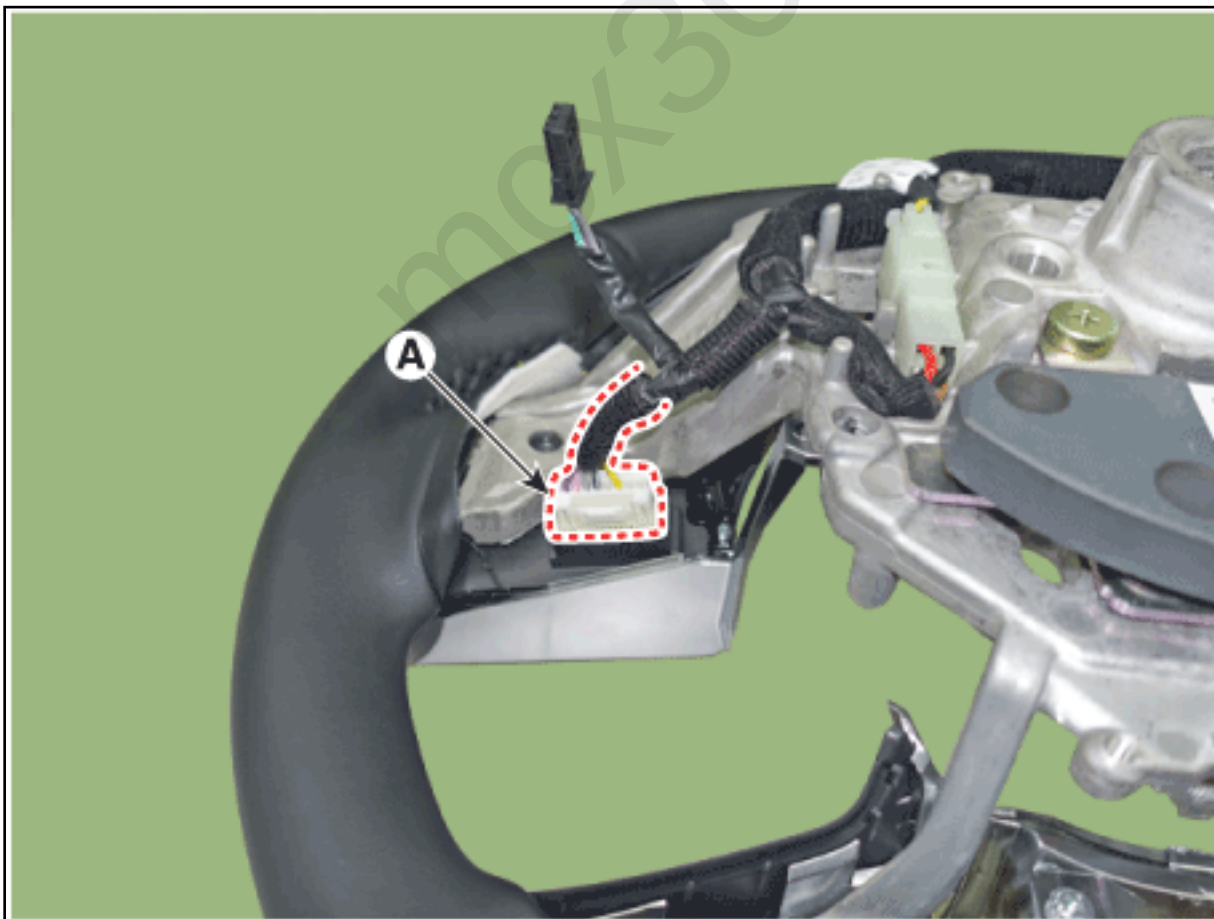
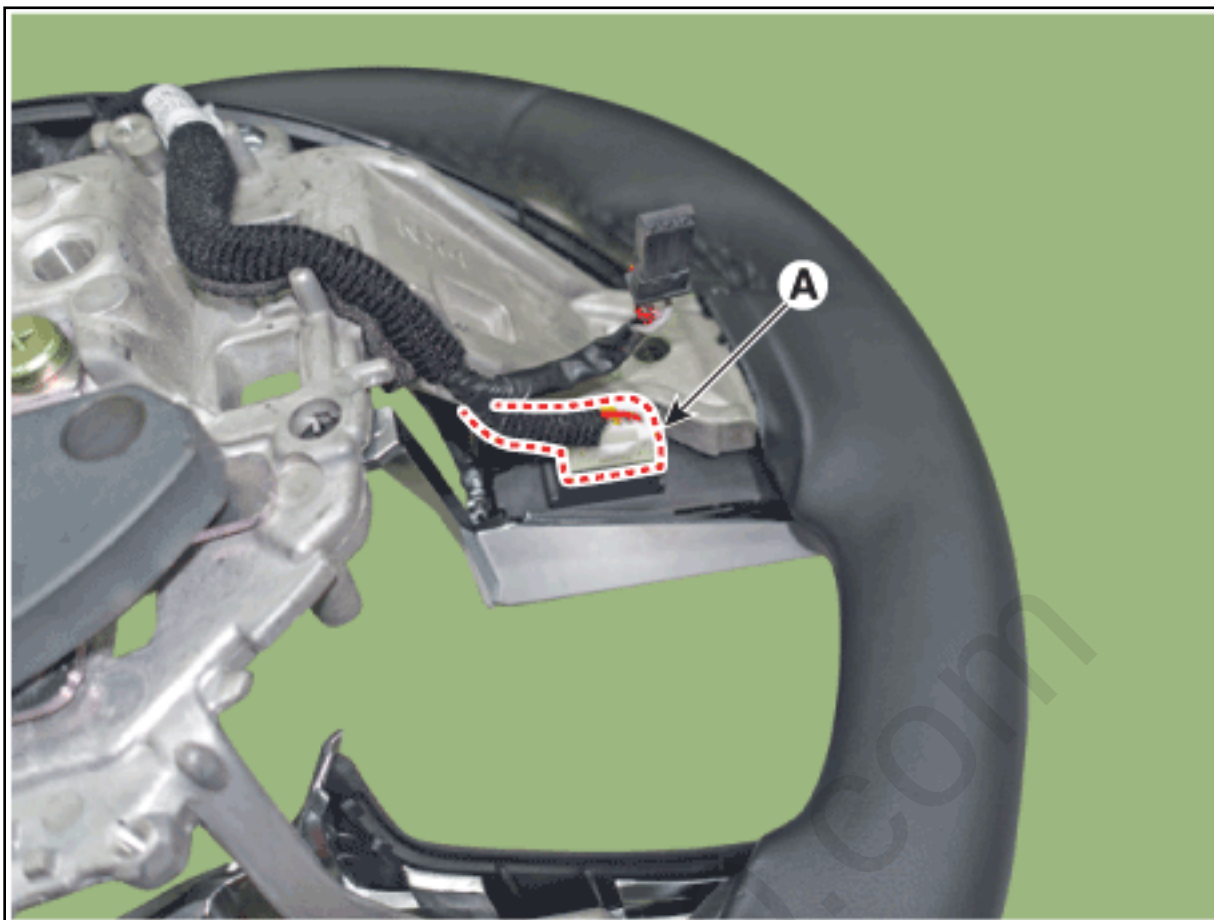
4. Disconnect the paddle shift lever connector (A).



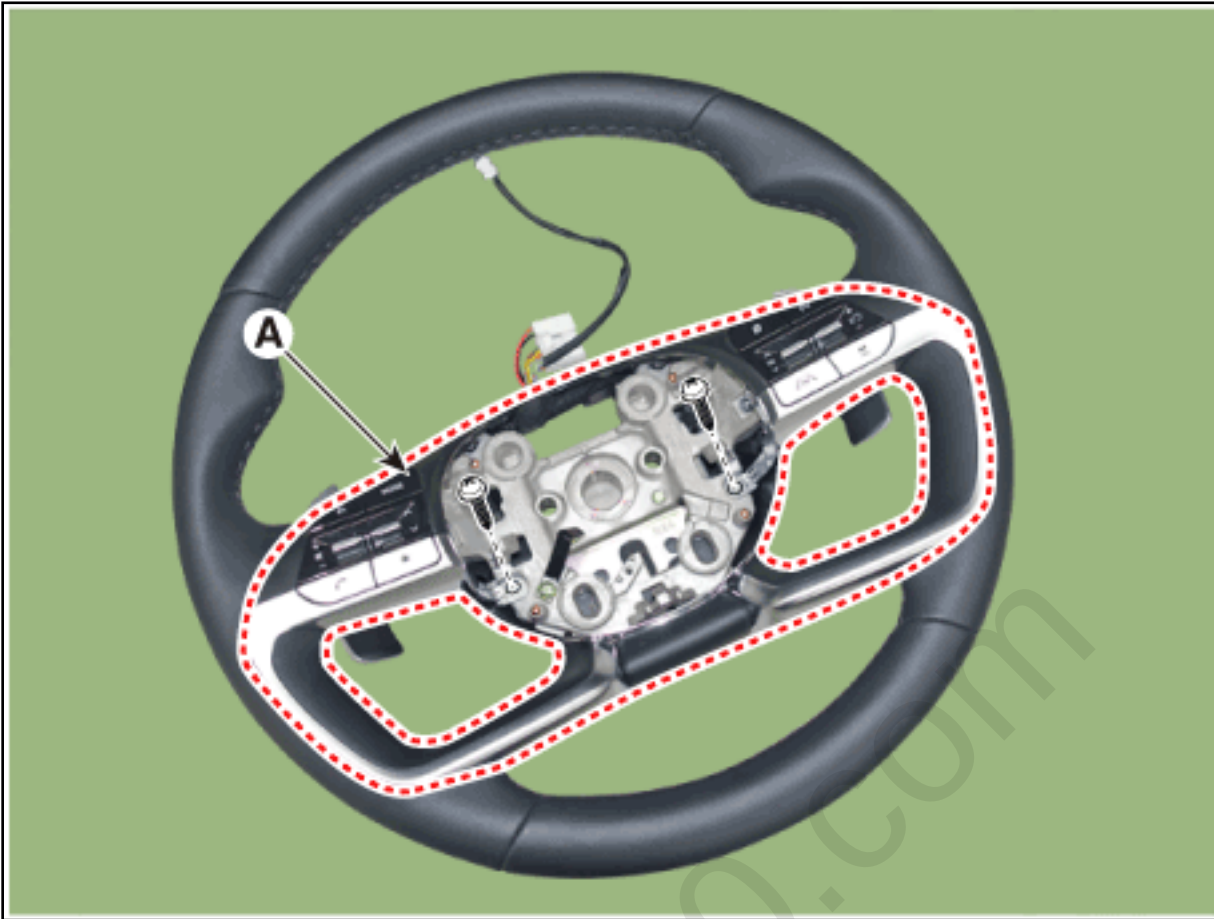
5. Remove the steering wheel lower cover (A).



6. Loosen mounting screws and then disconnect the steering wheel switch connector (A).



7. Remove the steering wheel control switch (A) after loosening mounting screws.



Installation

1. Install the remote control switch on the steering wheel.
2. Install the steering wheel.
3. Reconnect the remote control switch connector and airbag connectors.



- Make sure that the switch connector is plugged in properly.
- Check the audio system or radio and USB for normal operation.

4. Install the driver airbag module.



- Check the audio system for normal operation.
- Make sure that the switch connector is plugged in properly.

Description

The USB jack on the console upper cover is for customers who like to listen to external portable music players like the USB, MP3 through the vehicle's sound system when it is linked to this jack. The customer has this added option.



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Connector Pin
Information



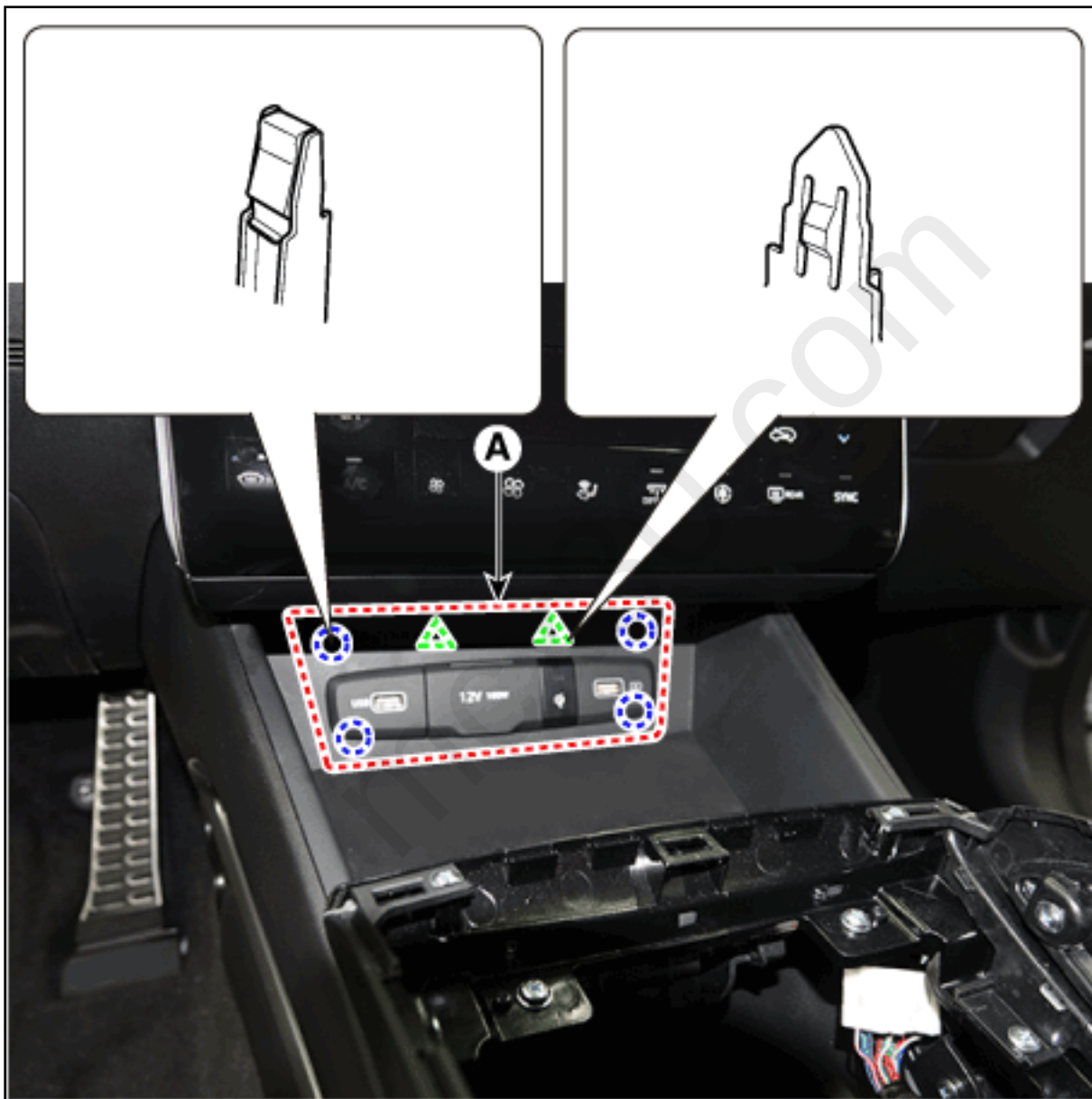
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Removal



- When removing with a flat-tip screwdriver or remover, wrap protective tape around the tools to prevent damage to components.
- Put on gloves to prevent hand injuries.

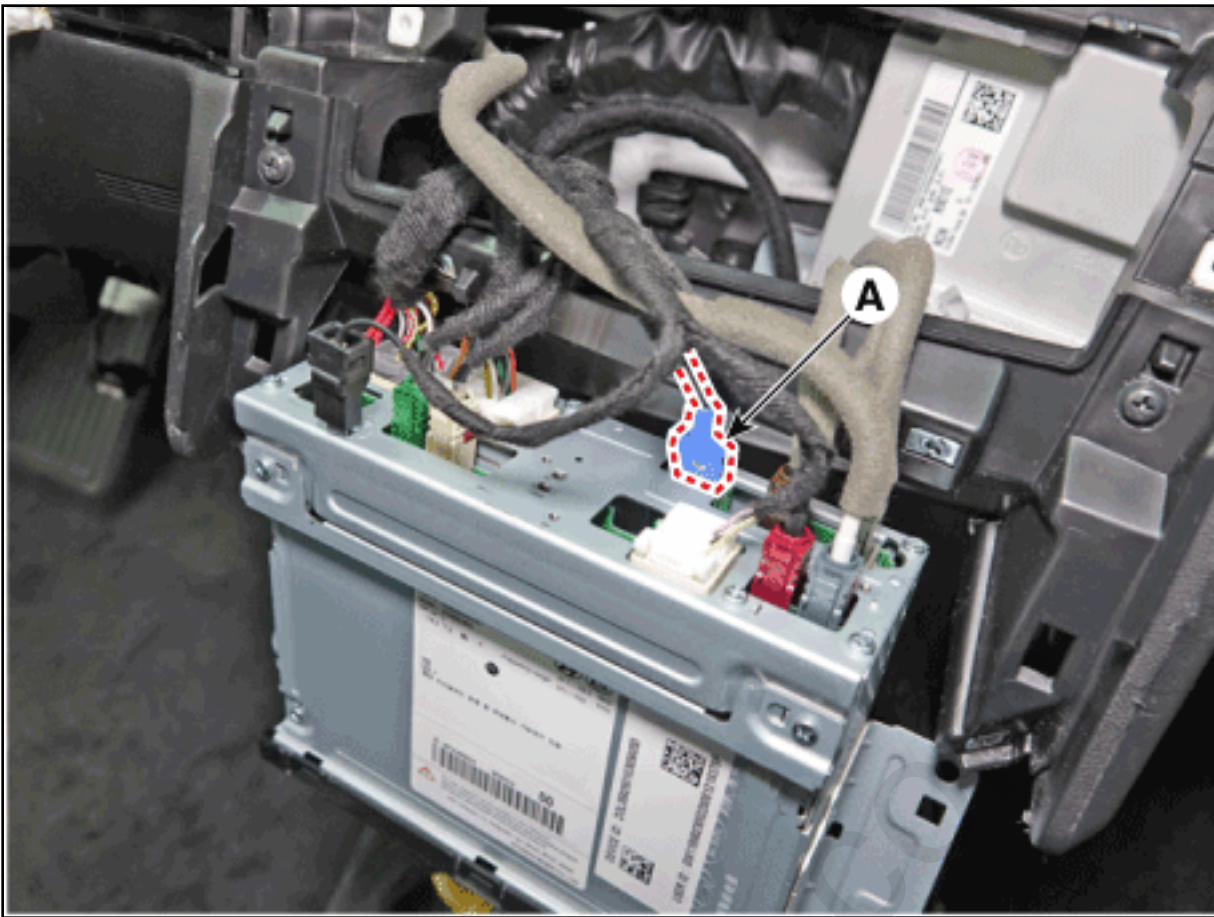
1. Disconnect the negative (-) battery terminal.
2. Using a flat-head screwdriver, remove the floor console tray assembly (A).



3. Remove the USB (A) by pushing hooks in the direction of the arrow as lillustration below.



4. Remove the audio unit.
(Refer to Body - "Audio Unit")
5. Remove the USB after disconnect the USB connector (A).



Installation

1. Install the USB.
2. Install the floor console tray assembly.
3. Connect the negative (-) battery connector.



- Make sure that the switch connector is plugged in properly.
- Check the audio system or Radio and USB for normal operation.

Components



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Removal

1. Disconnect the negative (-) battery terminal.
2. Remove the front monitor lower cover (A).

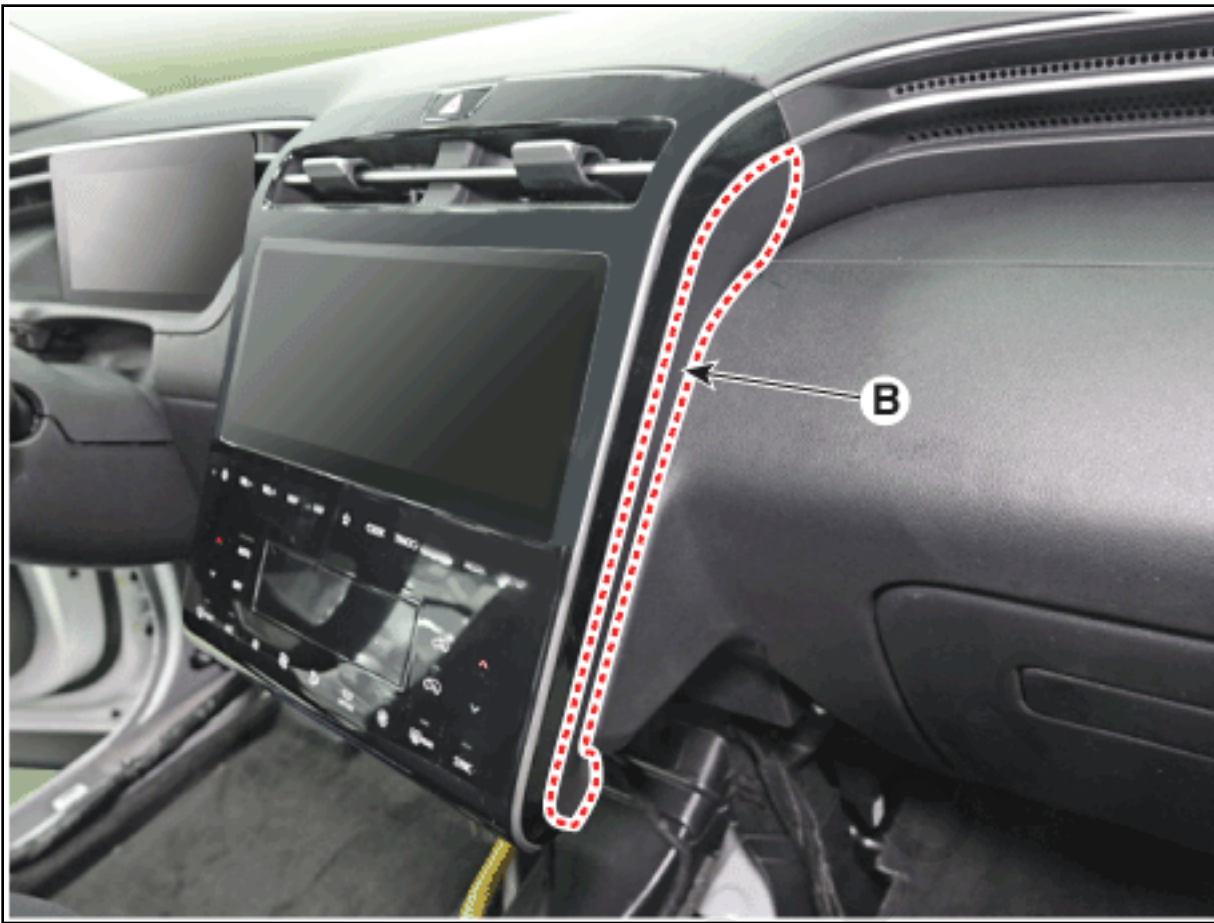


3. Remove the front monitor lower cover after disconnecting the mood lamp connector (A).



4. Remove front monitor side cover (A) and (B).

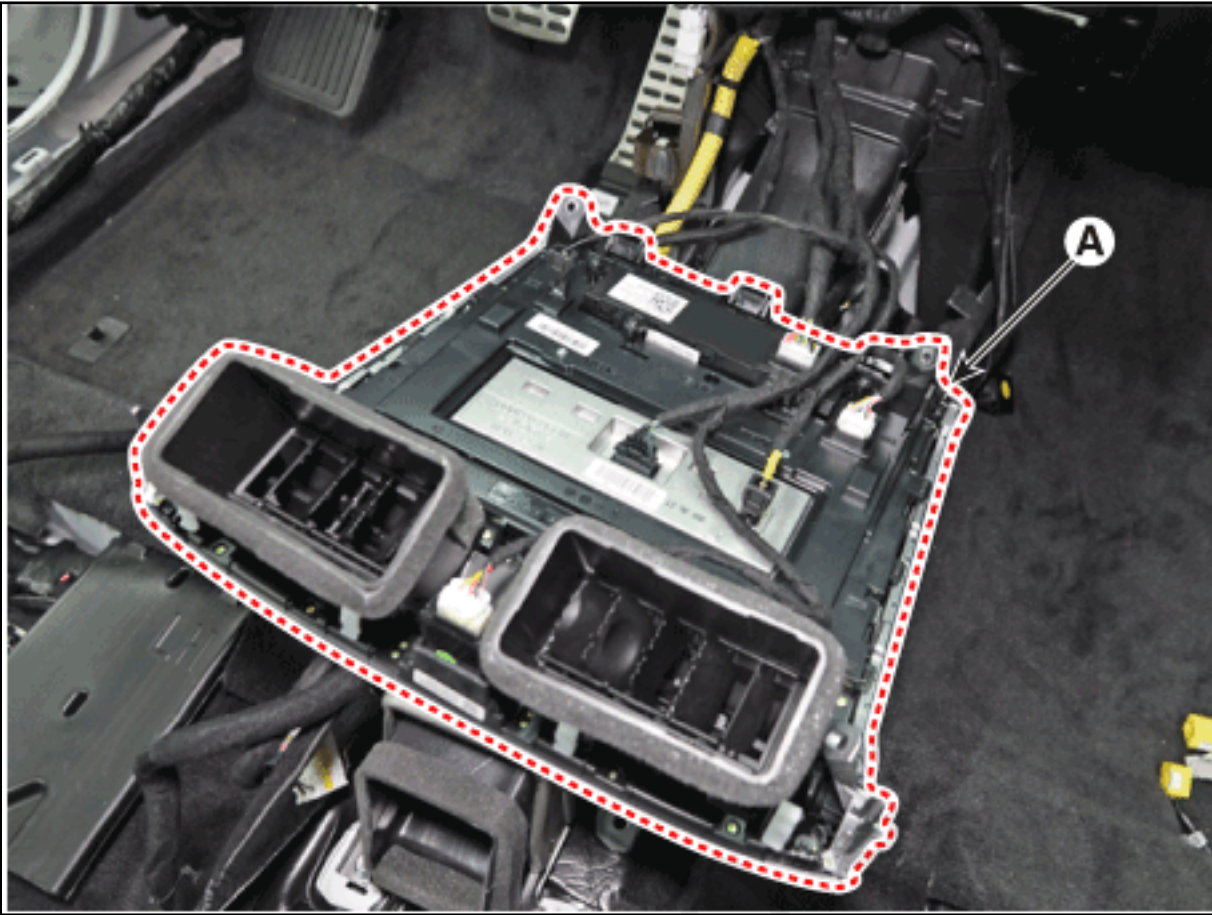




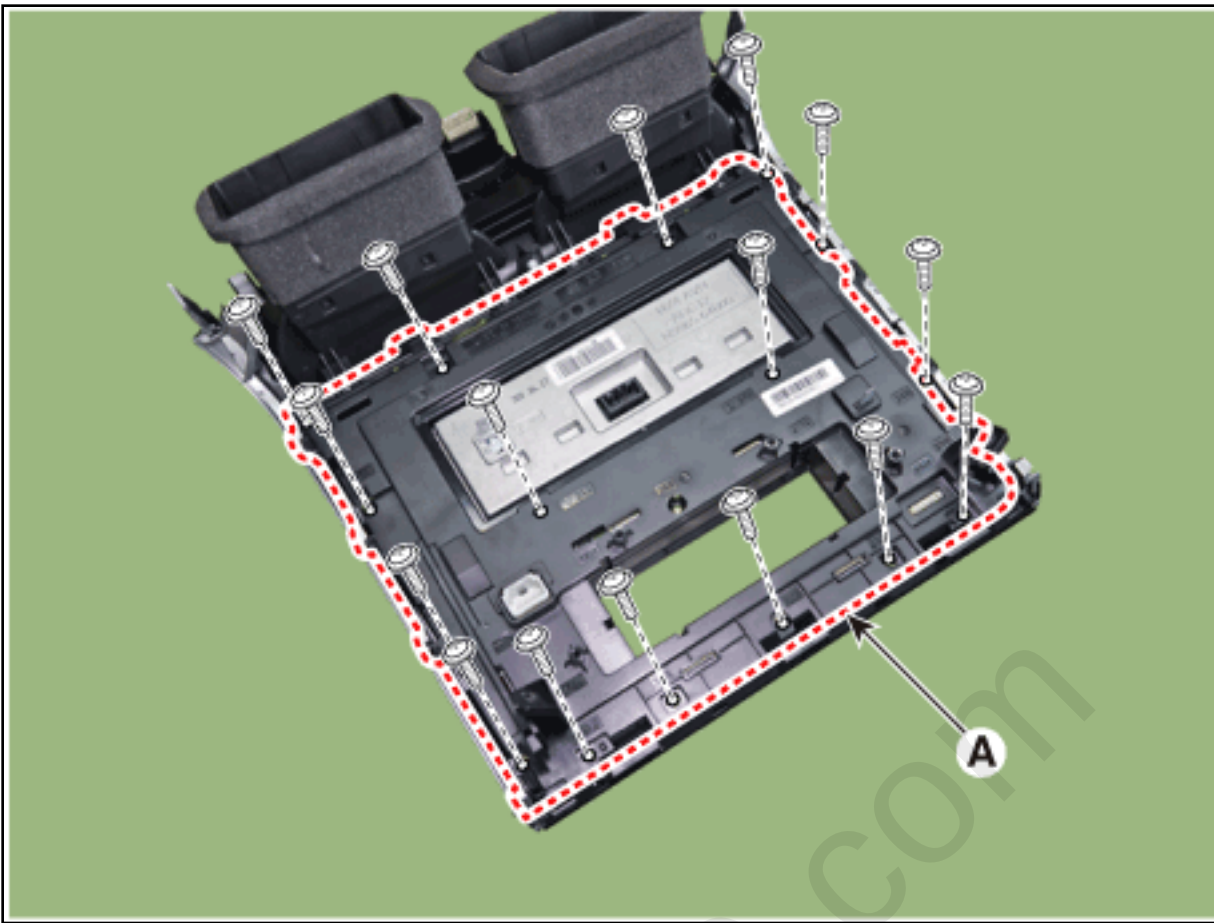
5. Remove the front monitor assembly (A).



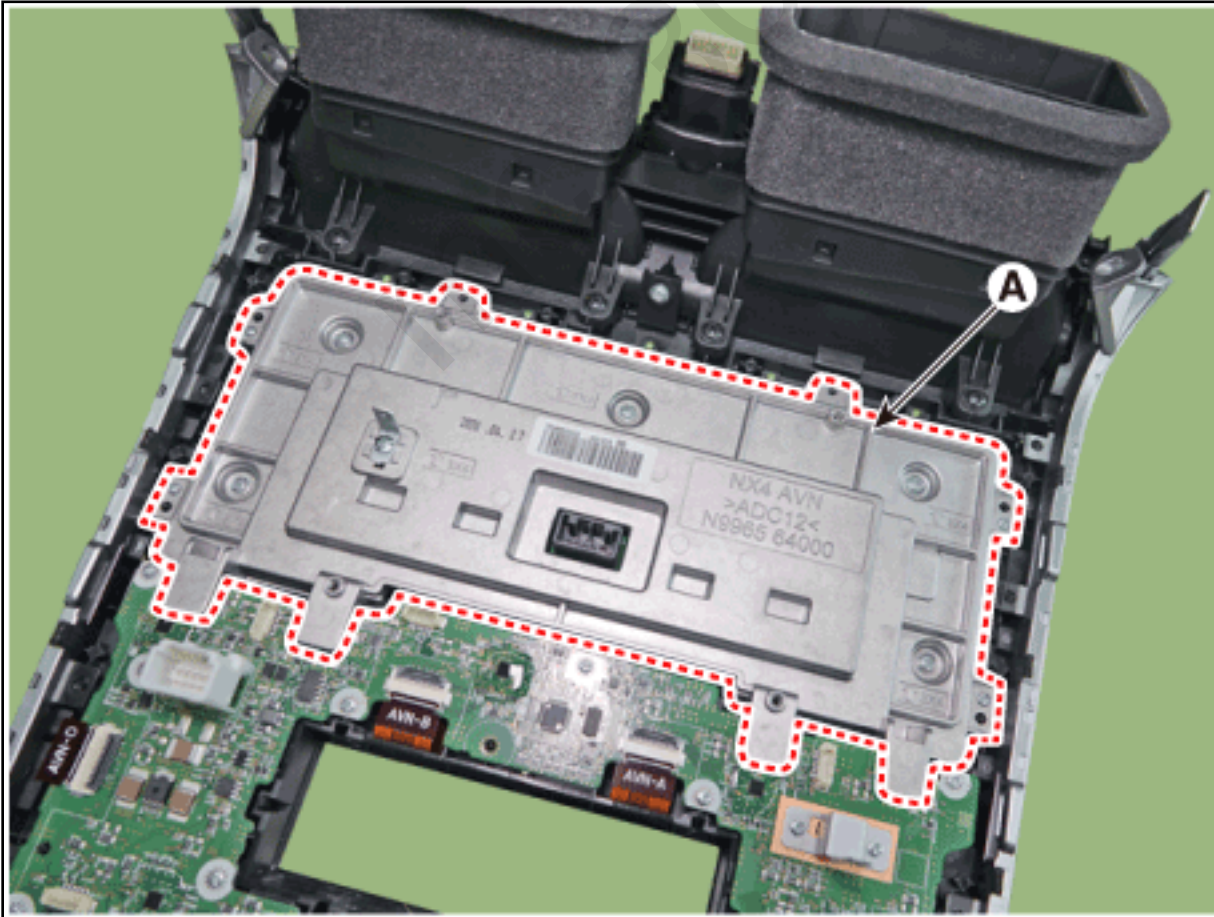
6. Remove the front monitor assembly (A) after disconnecting monitor connectors.



7. Remove the front monitor cover (A) after loosening mounting screws.



8. remove the front monitor (A) after loosening mounting screws.



Installation

1. Install the front monitor.
2. Install the front monitor cover.
3. Install the front monitor assembly.
4. Install the front monitor side cover.
5. Install the front monitor lower cover.
6. Connect the negative (-) battery terminal.



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

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