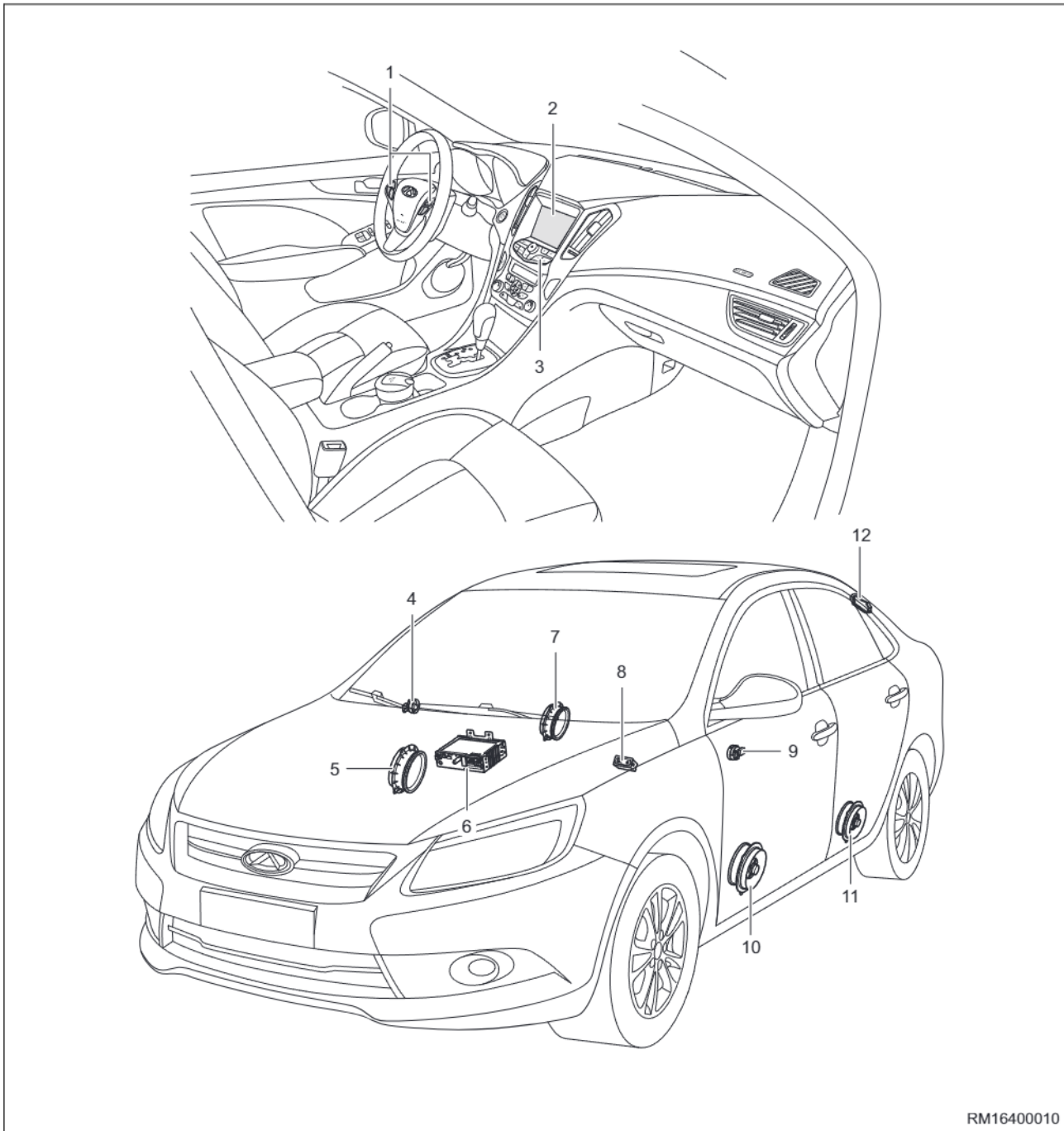


AUDIO/VISUAL SYSTEM

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GENERAL INFORMATION

Description



40

RM16400010

1 - Steering Wheel Quick Button (if equipped)	2 - TFT Display
3 - No Disc DVD Control Panel	4 - Right Tweeter Assembly
5 - Front Right Door Full-range Speaker Assembly	6 - No Disc DVD
7 - Rear Right Door Full-range Speaker Assembly	8 - Multi-function Interface
9 - Left Tweeter Assembly	10 - Front Left Door Full-range Speaker Assembly
11 - Rear Left Door Full-range Speaker Assembly	12 - Amplifier



Audio system mainly consists of No Disc DVD, speakers and antenna.

No Disc DVD mainly consists of No Disc DVD, No Disc DVD control panel, TFT display and multi-function interface.

Speaker system is equipped with 6 speakers, which includes 2 tweeter assemblies and 4 full-range speaker assemblies.

Antenna system mainly refers to amplifier and GPS antenna assembly (if equipped).

Specifications

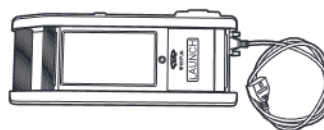
Torque Specifications

Description	Torque (N·m)
Center Control Integration Panel Assembly Fixing Screw	1.5 ± 0.5
Center Right Outlet Panel Assembly Fixing Screw	1.5 ± 0.5
Center Left Outlet Panel Assembly Fixing Screw	1.5 ± 0.5
No Disc DVD Trim Cover Assembly Fixing Screw	1.5 ± 0.5
TFT Display Fixing Screw	1.5 ± 0.5
No Disc DVD Control Panel Fixing Screw	1.5 ± 0.5
No Disc DVD Fixing Screw	1.5 ± 0.5
Front Full-range Speaker Assembly Fixing Screw	2.0 ± 0.5
Rear Full-range Speaker Assembly Fixing Screw	2.0 ± 0.5
Amplifier Fixing Bolt	7 ± 1.5
Ground Wire Harness Fixing Screw	0.7 ± 0.2
Steering Wheel Quick Button Trim Cover Fixing Screw	0.7 ± 0.2

Tools

Special Tool

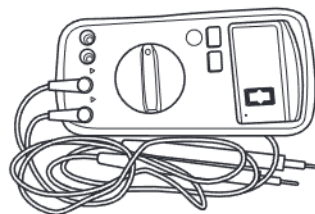
X-431 3G Diagnostic Tester



RCH0000001

General Tool

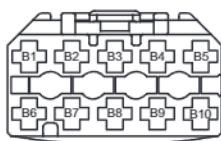
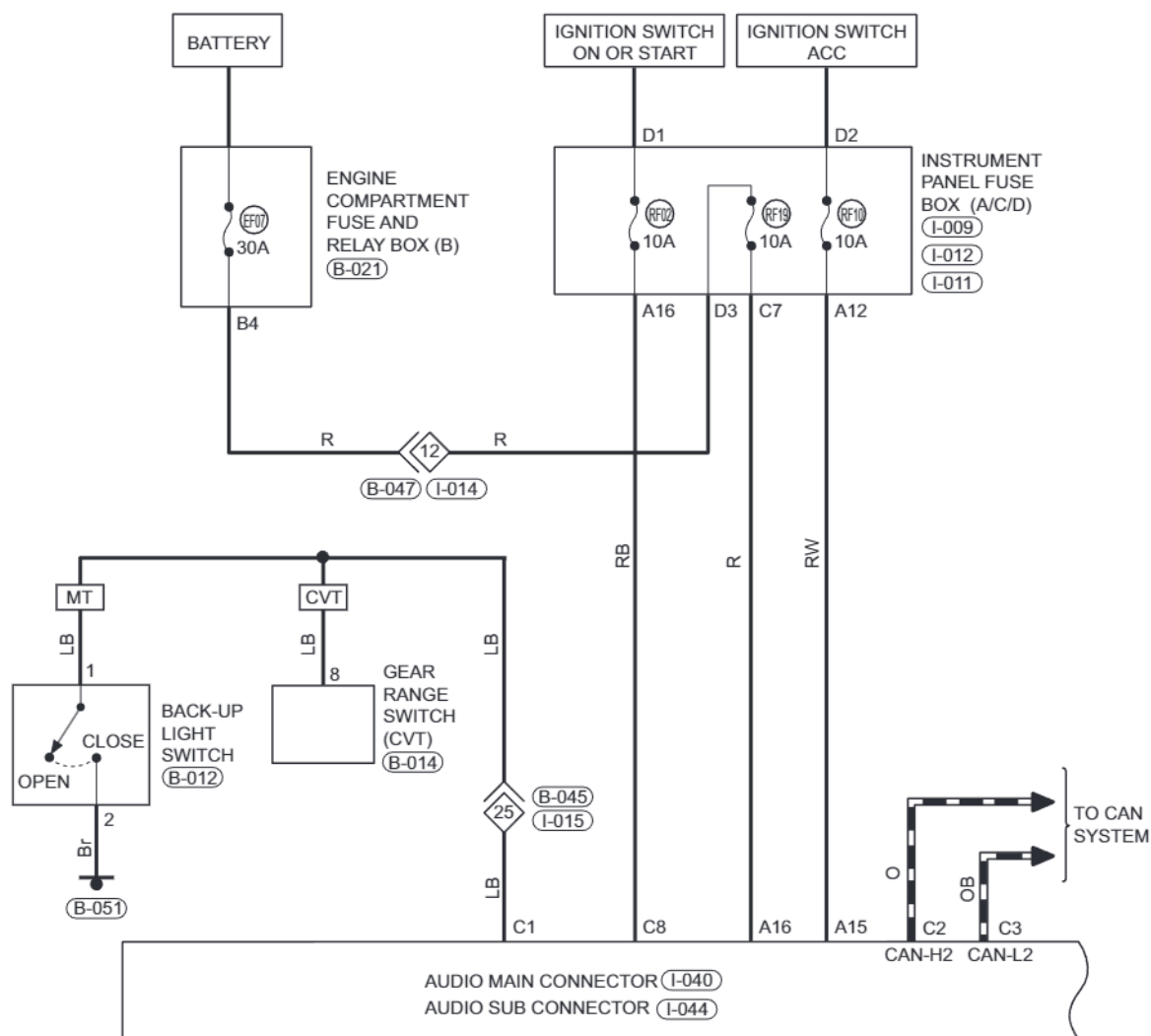
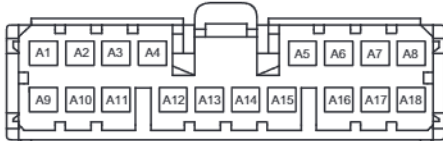
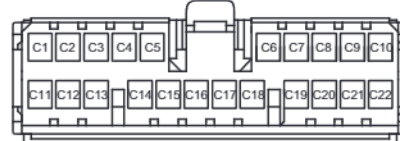
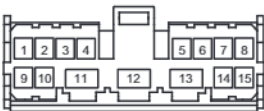
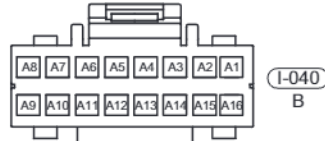
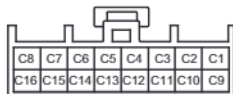
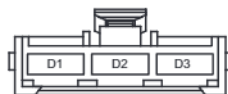
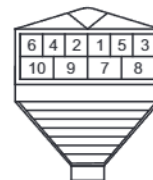
Digital Multimeter



RCH0000002

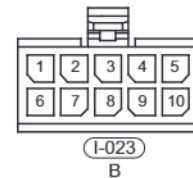
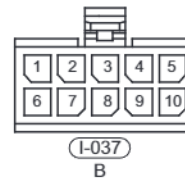
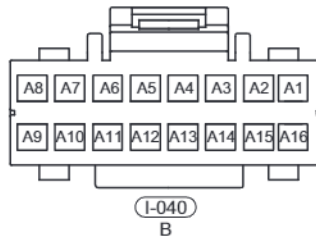
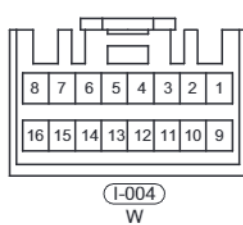
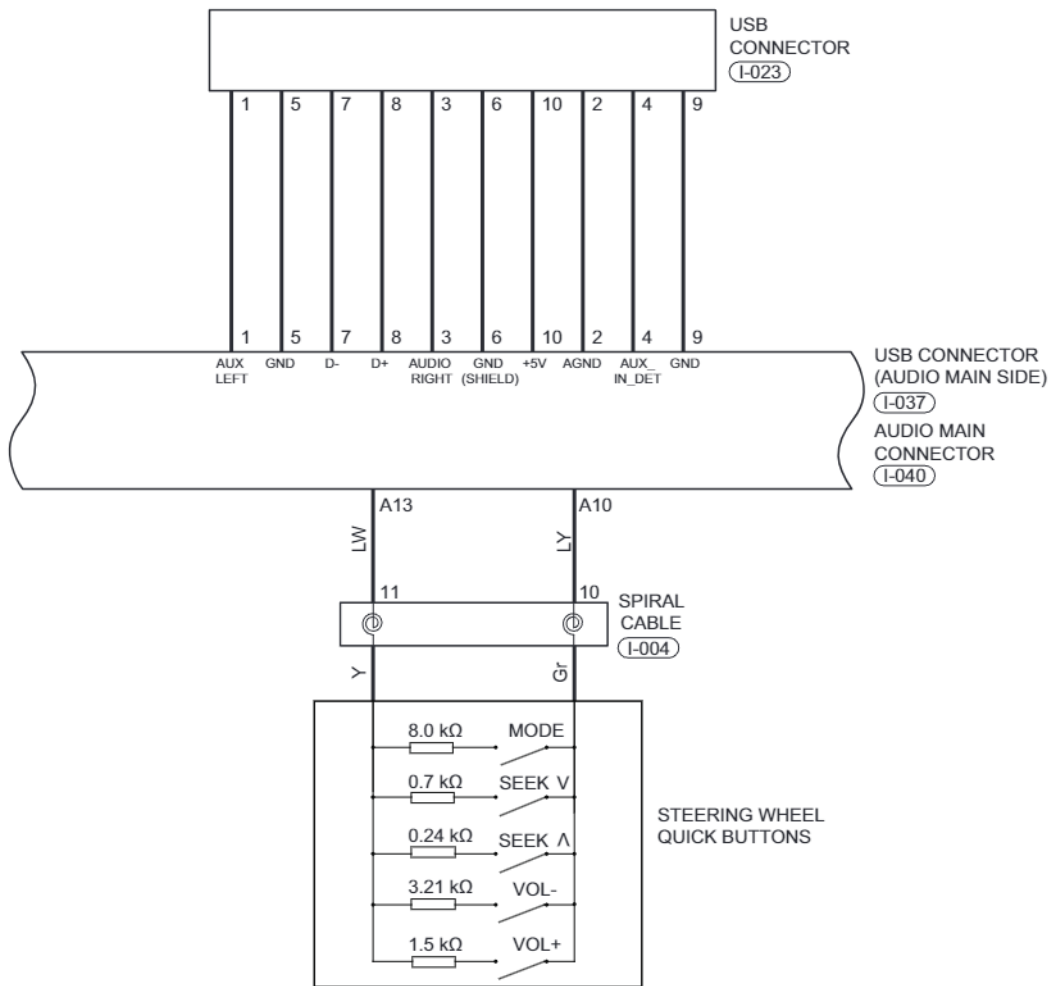
Circuit Diagram

Audio System (Page 1 of 6)

B-021
YI-009
WI-012
WB-047
WB-045
BI-040
BB-012
BI-044
BI-011
RB-014
B

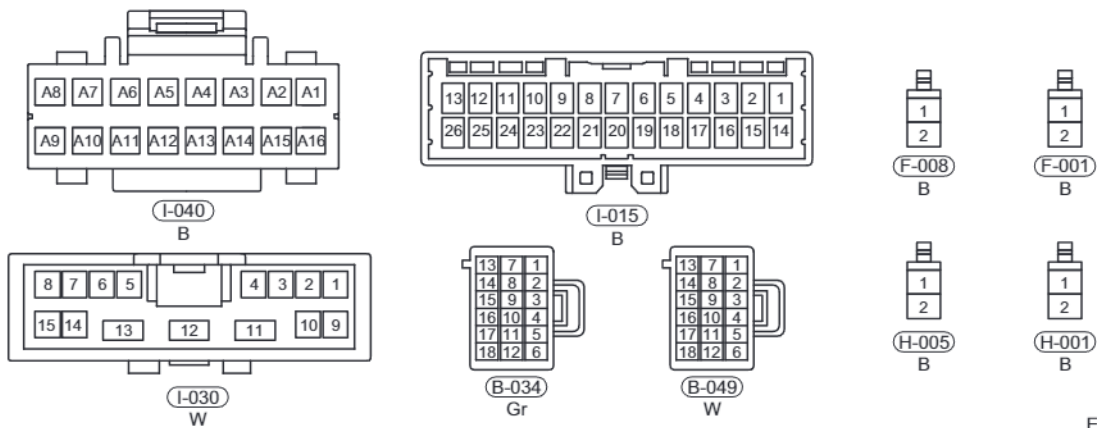
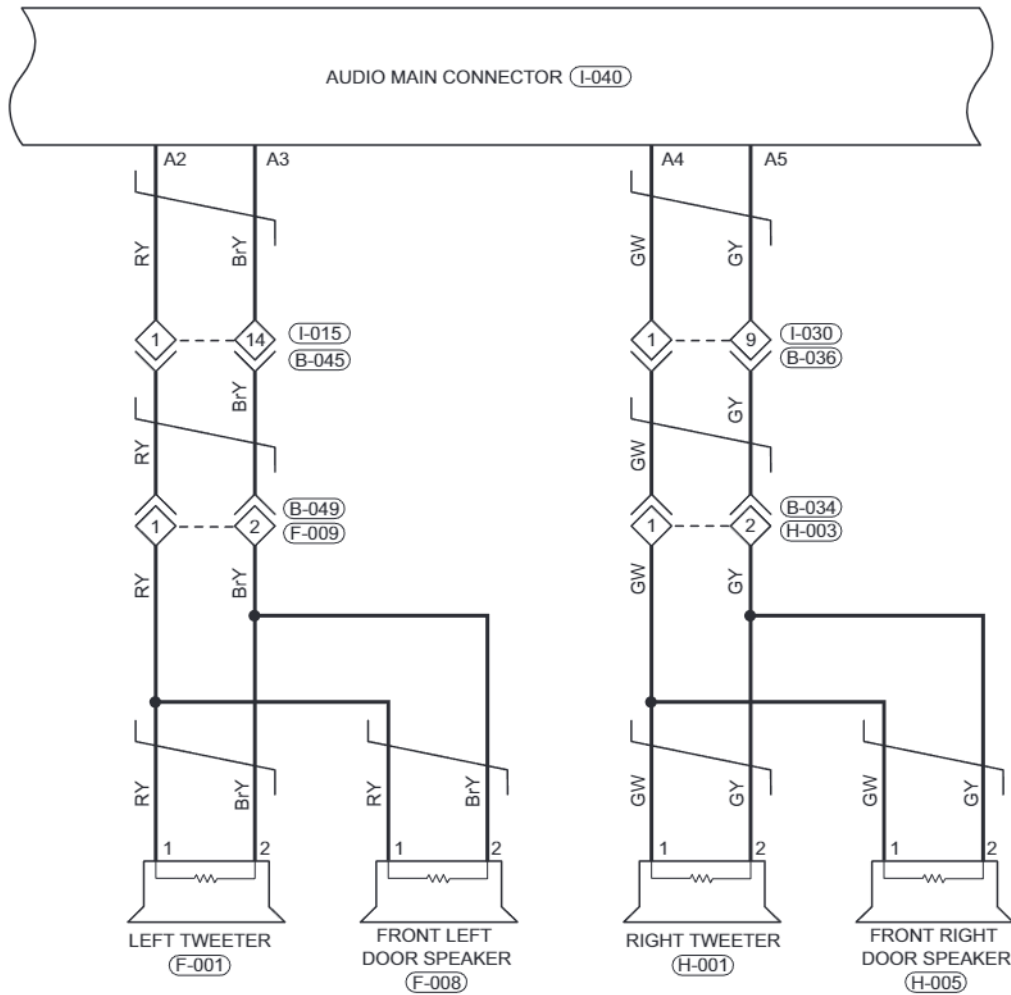
EM16400010

Audio System (Page 2 of 6)



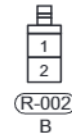
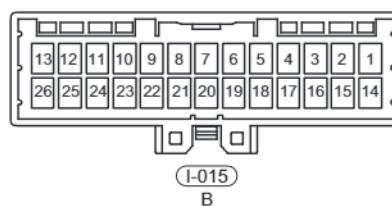
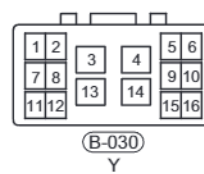
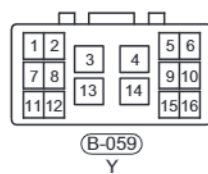
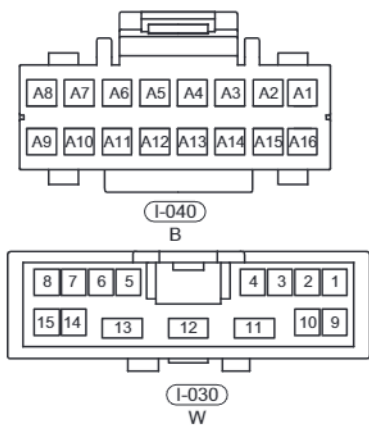
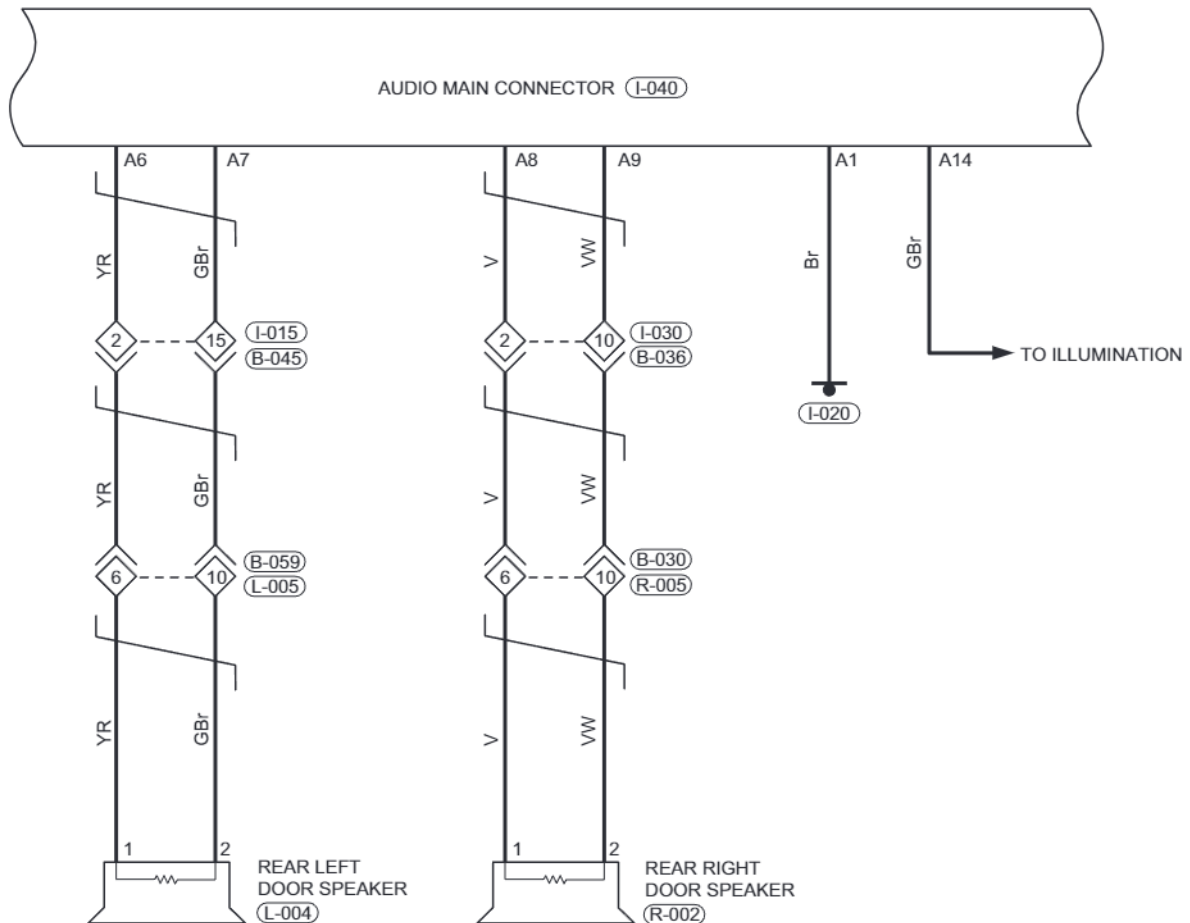
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Audio System (Page 3 of 6)



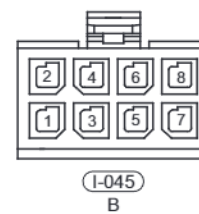
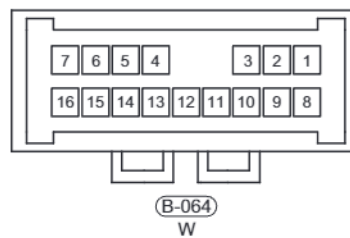
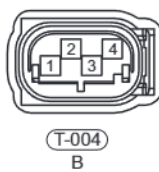
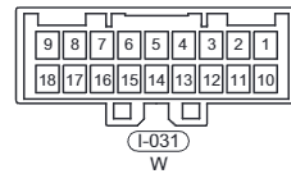
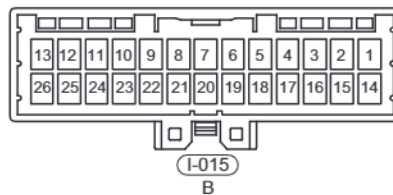
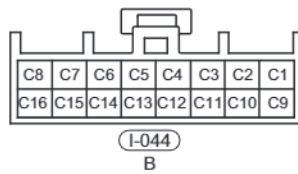
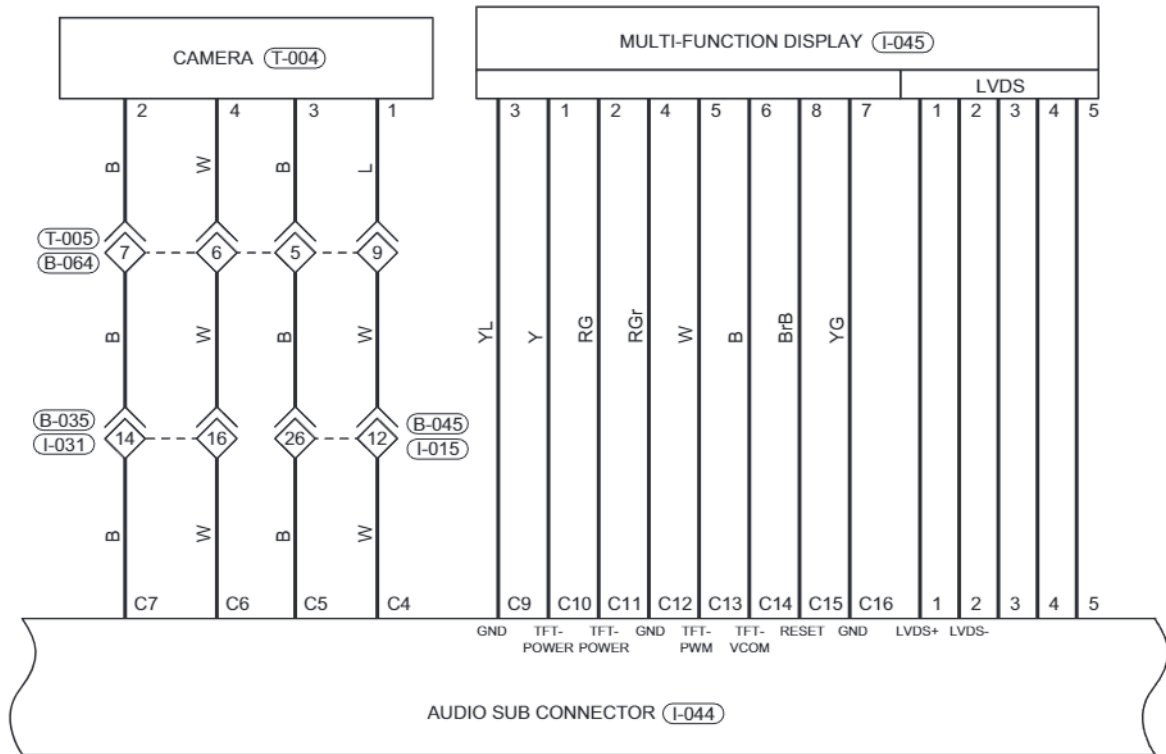
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Audio System (Page 4 of 6)



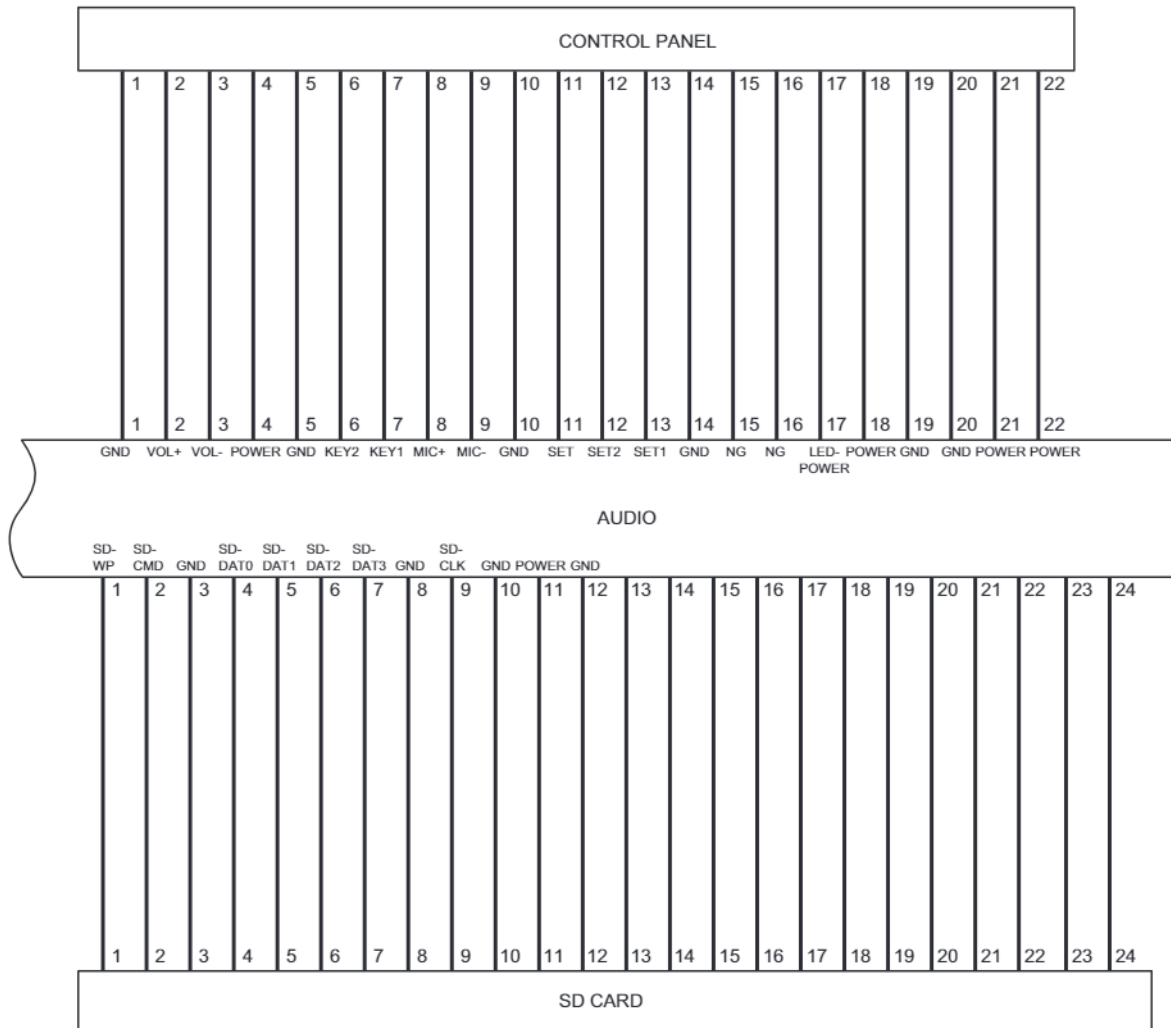
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Audio System (Page 5 of 6)



EM16400050

Audio System (Page 6 of 6)



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EM16400060



DIAGNOSIS & TESTING

Problem Symptoms Table

HINT:

Use symptoms table below to help determine cause of problem. Check each suspected area in sequence. Repair or adjust faulty components, or replace as necessary.

Symptom	Suspected Area	See page
Noise occurs	Noise source (interference)	-
	Tweeter assembly (loose installation or damaged)	40-40
	Full-range speaker assembly (loose installation or damaged)	40-41
TFT display does not operate	No Disc DVD control panel (malfunction)	40-32
	TFT display (malfunction)	40-32
	No Disc DVD (malfunction)	40-37
	Wire harness and connector (malfunction)	-
No sound can be heard from speakers	System setting (incorrect)	-
	Tweeter assembly (malfunction)	40-40
	Full-range speaker assembly (malfunction)	40-41
	No Disc DVD control panel (malfunction)	40-32
	Wire harness and connector (malfunction)	-
Radio broadcast signal cannot be received (poor reception)	No Disc DVD control panel (malfunction)	40-32
	No Disc DVD (malfunction)	40-37
	Optional equipment (interference)	-
	Amplifier (malfunction)	40-44
	Wire harness and connector (malfunction)	-

HINT:

When checking general malfunctions of audio system, perform inspection at spacious area nearby free of obstacles.

Diagnosis Tools

X-431 3G Diagnostic Tester

When connecting X-431 3G diagnostic tester:

- Connect X-431 3G diagnostic tester (the latest software) to Data Link Connector (DLC) for communication with vehicle.
- DLC is located on the driver side instrument panel crossmember.
- DLC uses a trapezoidal design which can hold 16 terminals.

Digital Multimeter

When using digital multimeter:

- Troubleshoot electrical malfunctions and wire harness system.
- Look for basic fault.
- Measure voltage, current and resistance.

Diagnostic Help

1. Connect X-431 3G diagnostic tester (the latest software) to Data Link Connector (DLC), and make it communicate with vehicle electronic module through data network.
2. Confirm that malfunction is current, and carry out diagnostic test and repair procedures.
3. If DTC cannot be cleared, the malfunction is current.
4. Only use a digital multimeter to measure the voltage of electronic system.
5. Refer to any Technical Bulletin that may apply to the malfunction.
6. Visually check the related wire harness and connector.
7. Check and clean all DVD system grounds related to the latest DTCs.
8. If multiple trouble codes were set, refer to the circuit diagrams to look for any common ground circuit or power supply circuit applied to the DTC.

40

Intermittent DTC Troubleshooting

If malfunction is intermittent, perform the followings:

- Check if connectors are loose.
- Check if wire harnesses are worn, pierced, pinched or partially broken.
- Wiggle related wire harnesses and connectors and observe if signal is interrupted in related circuit.
- If possible, try to duplicate the conditions under which DTC was set.
- Look for the data that has changed or the DTC to reset during the wiggle test.
- Look for broken, bent, protruded or corroded terminals.
- Inspect the mounting areas of audio system, wire harness or wire harness connector and so on for damage, foreign matter, etc. that will cause incorrect signals.
- Check and clean all wire harness connectors and grounding parts related to the current DTC.
- Remove the No Disc DVD from malfunctioning vehicle and install it to a new vehicle and perform a test. If DTC cannot be cleared, the No Disc DVD is malfunctioning. If DTC can be cleared, reinstall the No Disc DVD to original vehicle.
- If multiple trouble codes were set, refer to the circuit diagrams to look for any common ground circuit or power supply circuit applied to the DTC.
- Refer to Technical Bulletin that is applied to the malfunction.



Ground Inspection

Groundings are very important to entire circuit system, which are normal or not can seriously affect the entire circuit system. Ground points are often exposed to moisture, dirt and other corrosive environments. Corrosion (rust) and oxidation may increase load resistance. This situation will seriously affect the normal operation of circuit. Operations to check the ground points are as follows:

1. Remove the ground bolt or nut.
2. Check all contact surfaces for tarnish, dirt and rust, etc.
3. Clean as necessary to ensure that contacting is in a good condition.
4. Reinstall the ground bolt or nut securely.
5. Check if add-on accessories interfere with the ground circuit.
6. If several wire harnesses are crimped into one ground terminal, check if they are installed correctly. Make sure all wire harnesses are clean, securely fastened and providing a good ground path.

Diagnosis Procedure

HINT:

Use following procedures to troubleshoot the audio system.

1 Vehicle brought to workshop

NEXT

2 Check battery voltage

40 Standard voltage: 11 to 14 V

If voltage is below 11 V, recharge or replace the battery before proceeding to next step.

NEXT

3 Customer problem analysis

NEXT

4 Check for DTCs (current DTC and history DTC)

DTC
occurs

For current DTC, go to step 6

No
DTC

For history DTC, go to step 7

5 Problem repair (no DTC), then go to step 8

NEXT

6	Troubleshoot according to Diagnostic Trouble Code (DTC) chart, then go to step 8
---	--

NEXT

7	Troubleshoot according to Problem Symptoms Table, then go to step 8
---	---

NEXT

8	Adjust, repair or replace
---	---------------------------

NEXT

9	Conduct test and confirm malfunction has been repaired
---	--

NEXT

10	End
----	-----

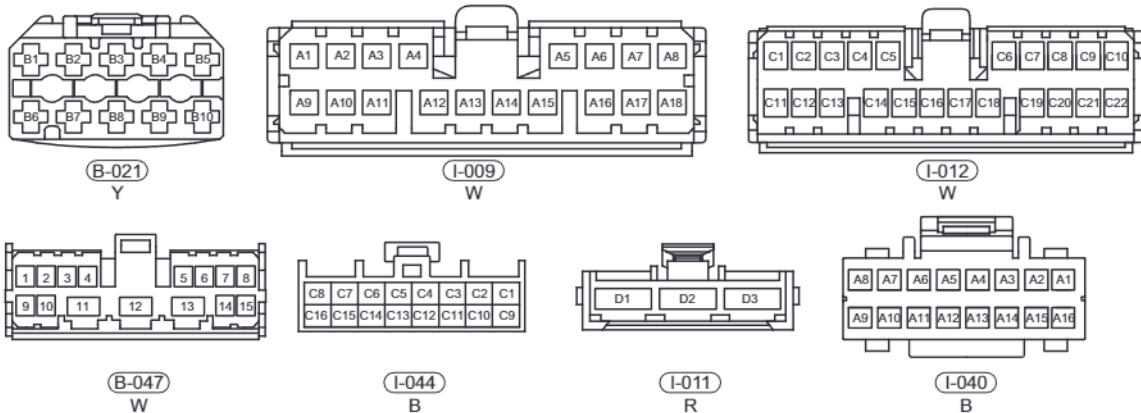
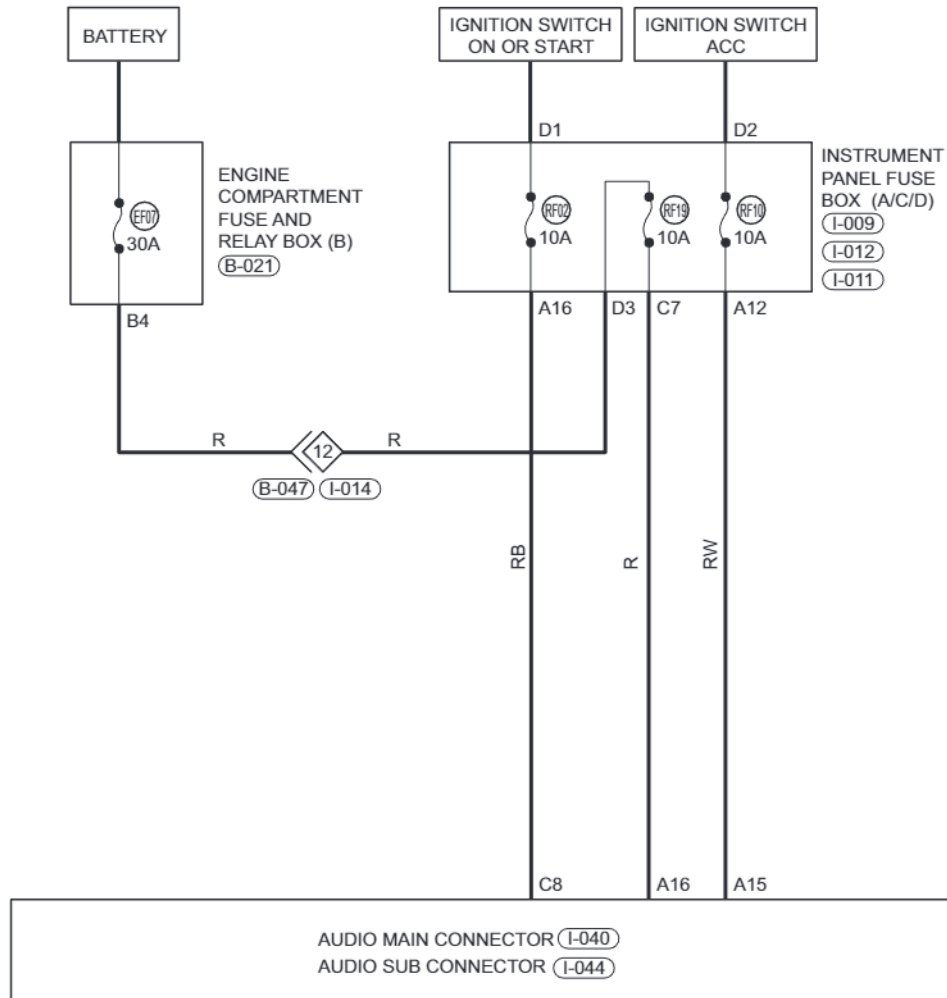
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Diagnostic Trouble Code (DTC) Chart

DTC Code	DTC Definition
B1800-16	Power Supply Circuit Voltage Below Threshold
B1800-17	Power Supply Circuit Voltage Above Threshold
B1802-00	Front Switch Error No Subtype Information
B1803-00	Steering Switch Error No Subtype Information
B1805-05	EEPROM Failure System Programming Failures
B1809-00	Speed Signal Abnormal No Subtype Information
U0001-01	High Speed CAN Communication Bus General Electrical Failure
U0073-88	CAN Module Communication Bus Off

DTC	B1800-16	Power Supply Circuit Voltage Below Threshold
-----	----------	--

DTC	B1800-17	Power Supply Circuit Voltage Above Threshold
-----	----------	--



EM16400070

Self-diagnosis Detection Logic

DTC Code	DTC Definition	DTC Detection Condition	Possible Cause
B1800-16	Power Supply Circuit Voltage Below Threshold	Ignition switch ON	- Charging system - Fuse - Ignition switch assembly - Wire harness or connector
B1800-17	Power Supply Circuit Voltage Above Threshold		

DTC Confirmation Procedure:

Confirm that battery voltage is 11 to 14 V before performing the following procedures.

- Turn ignition switch to LOCK.
- Connect X-431 3G diagnostic tester (the latest software) to Data Link Connector (DLC), and make it communicate with vehicle electronic module through data network.
- Turn ignition switch to ON.
- Use X-431 3G diagnostic tester to record and clear the DTCs stored in DVD system.
- Turn ignition switch to LOCK and wait for a few seconds.
- Turn ignition switch to ON, and then select Read Code.
- If DTC is detected, the malfunction indicated by the DTC is current. Go to the diagnosis procedure - Step 1.
- If no DTC is detected, the malfunction indicated by the DTC is intermittent ([See page 40-13](#)).

CAUTION

40

- When performing circuit diagnosis and test, always refer to the circuit diagram for specific circuit and component information.

Diagnosis Procedure

1 Check battery

- a. Check if battery voltage is normal.

NG

Charge or replace battery

OK

2 Check battery terminals

- a. Check if battery terminals are loose or corroded.

NG

Tighten or replace battery terminals

OK

3 Check fuse

- Unplug the fuses EF07 (30 A) and RF19 (10 A) from engine compartment fuse and relay box.
- Check the resistance of fuses EF07 and RF19.
- Unplug the fuses RF02 (10 A) and RF10 (10 A) from instrument panel fuse box.
- Check the resistance of fuses RF02 and RF10.

Standard resistance: less than 1 Ω

NG

Replace fuse

OK

4 Check ignition switch assembly

- Check the ignition switch assembly (See page 15-75).

NG

Replace ignition switch assembly

OK

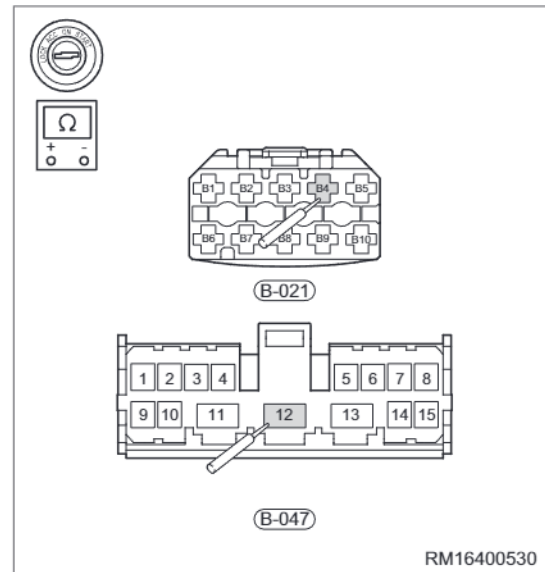
5 Check body wire harness and connector

- Turn ignition switch to LOCK.
- Disconnect the negative battery cable.
- Disconnect the body wire harness connectors B-021 and B-047.
- Using a digital multimeter, check for continuity between body wire harness connectors B-021 and B-047 according to the table below.

Multimeter Connection	Condition	Specified Condition
B-021 (B4) - B-047 (12)	Always	Continuity

NG

Repair or replace body wire harness and connector



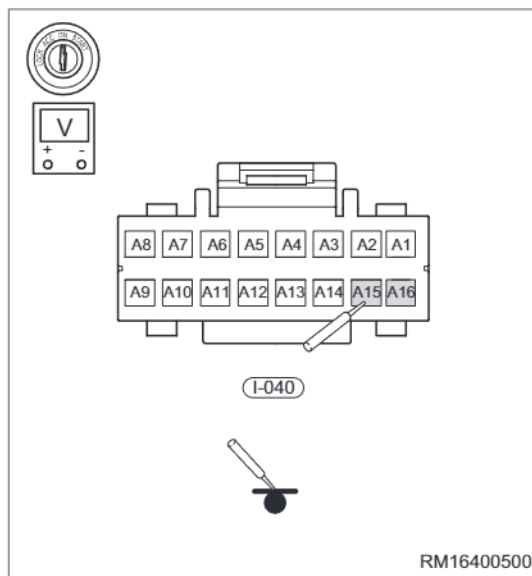
OK

6

Check instrument panel wire harness and connector

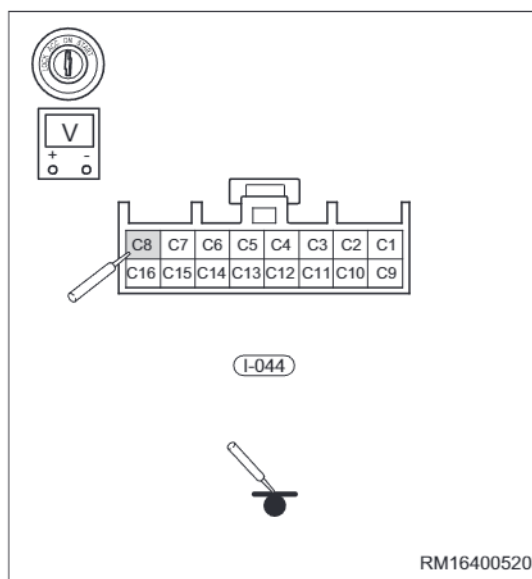
- a. Turn ignition switch to LOCK.
- b. Disconnect the negative battery cable.
- c. Disconnect the instrument panel wire harness connector I-040.
- d. Connect the negative battery cable.
- e. Turn ignition switch to ON.
- f. Using a digital multimeter, measure the voltage between instrument panel wire harness connector I-040 and body ground according to the value(s) in the table below.

Multimeter Connection	Condition	Specified Condition
I-040 (A16) - Body ground	Always	11 to 14 V
I-040 (A15) - Body ground	Always	11 to 14 V



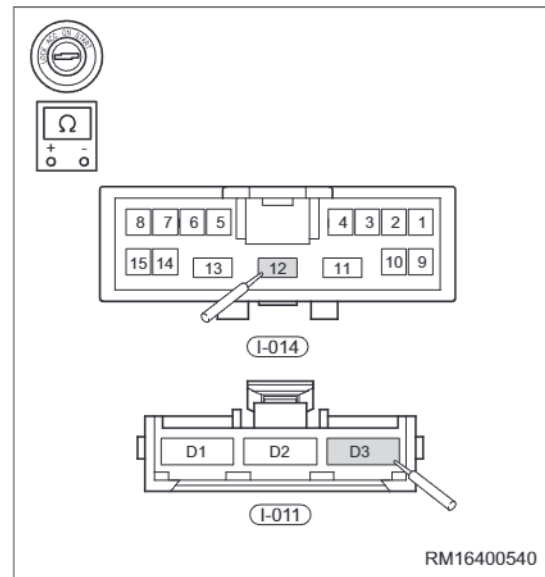
- g. Connect all connectors.
- h. Disconnect the instrument panel wire harness connector I-044.
- i. Connect the negative battery cable.
- j. Turn ignition switch to ON.
- k. Using a digital multimeter, measure the voltage between instrument panel wire harness connector I-044 and body ground according to the value(s) in the table below.

Multimeter Connection	Condition	Specified Condition
I-044 (C8) - Body ground	Always	11 to 14 V



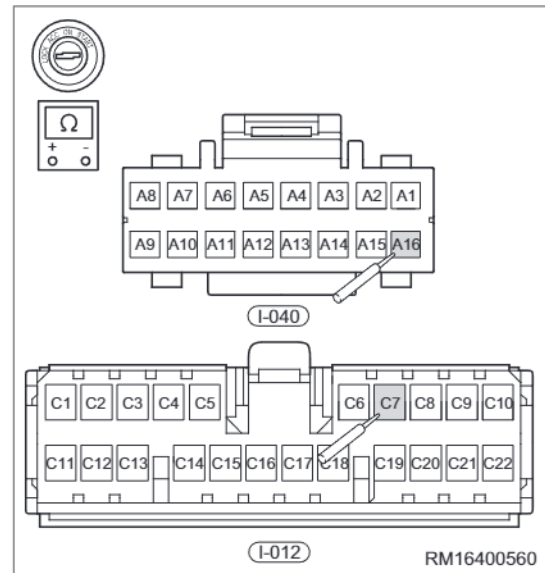
- l. Disconnect the instrument panel wire harness connectors I-014 and I-011.
- m. Using a digital multimeter, check for continuity between instrument panel wire harness connectors I-014 and I-011 according to the table below.

Multimeter Connection	Specified Condition
I-014 (12) - I-011 (D3)	Continuity



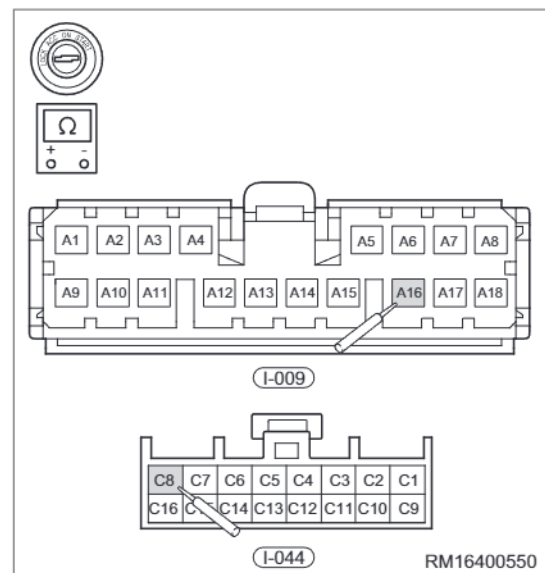
- n. Disconnect the instrument panel wire harness connectors I-012 and I-040.
- o. Using a digital multimeter, check for continuity between instrument panel wire harness connectors I-012 and I-040 according to the table below.

Multimeter Connection	Specified Condition
I-012 (C7) - I-040 (A16)	Continuity



- p. Disconnect the instrument panel wire harness connectors I-009 and I-044.
- q. Using a digital multimeter, check for continuity between instrument panel wire harness connectors I-009 and I-044 according to the table below.

Multimeter Connection	Specified Condition
I-009 (A16) - I-044 (C8)	Continuity

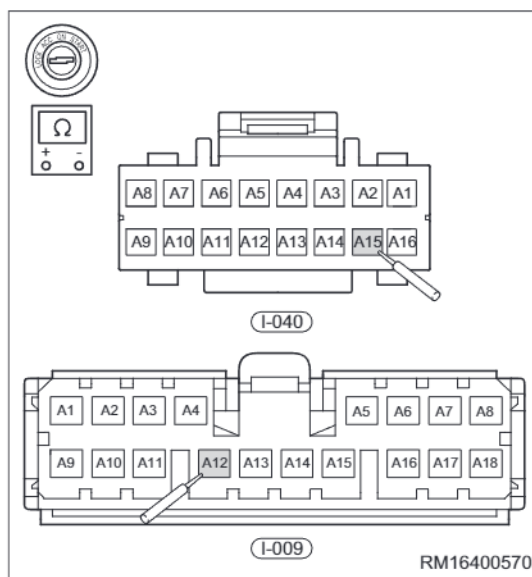


- r. Disconnect the instrument panel wire harness connectors I-009 and I-040.
- s. Using a digital multimeter, check for continuity between instrument panel wire harness connectors I-009 and I-040 according to the table below.

Multimeter Connection	Specified Condition
I-009 (A12) - I-040 (A15)	Continuity

NG

Repair or replace instrument panel wire harness and connector



OK

7

Reconfirm DTCs

- a. Connect all connectors.
- b. Connect the negative battery cable.
- c. Turn ignition switch to ON.
- d. Use X-431 3G diagnostic tester (the latest software) to record and clear the DTCs stored in No Disc DVD control system.
- e. Turn ignition switch to LOCK and wait for a few seconds.
- f. Turn ignition switch to ON.
- g. Use X-431 3G diagnostic tester (the latest software) to read the DTCs stored in No Disc DVD control system again.
- h. Read DTCs.

Result	Proceed to
DTCs B1800-16 and B1800-17 are output	NG
No DTC is output	OK

NG

Replace No Disc DVD control module

OK

System is normal

DTC	B1802-00	Front Switch Error No Subtype Information
------------	-----------------	--

Self-diagnosis Detection Logic

DTC Code	DTC Definition	DTC Detection Condition	Possible Cause
B1802-00	Front Switch Error No Subtype Information	Ignition switch ON	No Disc DVD control panel

DTC Confirmation Procedure:

Confirm that battery voltage is 11 to 14 V before performing the following procedures.

- Turn ignition switch to LOCK.
- Connect X-431 3G diagnostic tester (the latest software) to Data Link Connector (DLC), and make it communicate with vehicle electronic module through data network.
- Turn ignition switch to ON.
- Use X-431 3G diagnostic tester to record and clear the DTCs stored in DVD system.
- Turn ignition switch to LOCK and wait for a few seconds.
- Turn ignition switch to ON, and then select Read Code.
- If DTC is detected, the malfunction indicated by the DTC is current. Go to the diagnosis procedure - Step 1.
- If no DTC is detected, the malfunction indicated by the DTC is intermittent ([See page 40-13](#)).

Diagnosis Procedure

1	Check No Disc DVD control panel operation
----------	--

40

- Remove the No Disc DVD control panel from malfunctioning vehicle, and install it to a new vehicle to perform a test.
- Connect all connectors.
- Connect the negative battery cable and turn ignition switch to ON.
- Check the operation condition of No Disc DVD control panel.

NG**Replace No Disc DVD control panel****OK**

2	Reconfirm DTCs
----------	-----------------------

- Connect all connectors.
- Connect the negative battery cable.
- Turn ignition switch to ON.
- Use X-431 3G diagnostic tester (the latest software) to record and clear the DTCs stored in No Disc DVD control system.
- Turn ignition switch to LOCK and wait for a few seconds.
- Turn ignition switch to ON.
- Use X-431 3G diagnostic tester (the latest software) to read the DTCs stored in No Disc DVD control system again.
- Read DTCs.



Result	Proceed to
DTC B1802-00 is output	NG
No DTC is output	OK

NG**Replace No Disc DVD control module****OK****System is normal**

DTC	B1803-00	Steering Switch Error No Subtype Information
------------	-----------------	---

Self-diagnosis Detection Logic

DTC Code	DTC Definition	DTC Detection Condition	Possible Cause
B1803-00	Steering Switch Error No Subtype Information	Ignition switch ON	Steering wheel quick button

DTC Confirmation Procedure:

Confirm that battery voltage is 11 to 14 V before performing the following procedures.

- Turn ignition switch to LOCK.
- Connect X-431 3G diagnostic tester (the latest software) to Data Link Connector (DLC), and make it communicate with vehicle electronic module through data network.
- Turn ignition switch to ON.
- Use X-431 3G diagnostic tester to record and clear the DTCs stored in DVD system.
- Turn ignition switch to LOCK and wait for a few seconds.
- Turn ignition switch to ON, and then select Read Code.
- If DTC is detected, the malfunction indicated by the DTC is current. Go to the diagnosis procedure - Step 1.
- If no DTC is detected, the malfunction indicated by the DTC is intermittent ([See page 40-13](#)).

Diagnosis Procedure

1	Check steering wheel quick button
----------	--

- Turn ignition switch to LOCK.
- Remove the driver airbag assembly ([See page 32-84](#)).
- Check the steering wheel quick button ([See page 40-48](#)).

NG

Replace steering wheel quick button

OK

2	Reconfirm DTCs
----------	-----------------------

- Connect all connectors.
- Connect the negative battery cable.
- Turn ignition switch to ON.
- Use X-431 3G diagnostic tester (the latest software) to record and clear the DTCs stored in No Disc DVD control system.
- Turn ignition switch to LOCK and wait for a few seconds.
- Turn ignition switch to ON.
- Use X-431 3G diagnostic tester (the latest software) to read the DTCs stored in No Disc DVD control system again.
- Read DTCs.

Result	Proceed to
DTC B1803-00 is output	NG
No DTC is output	OK

NG

Replace No Disc DVD control module

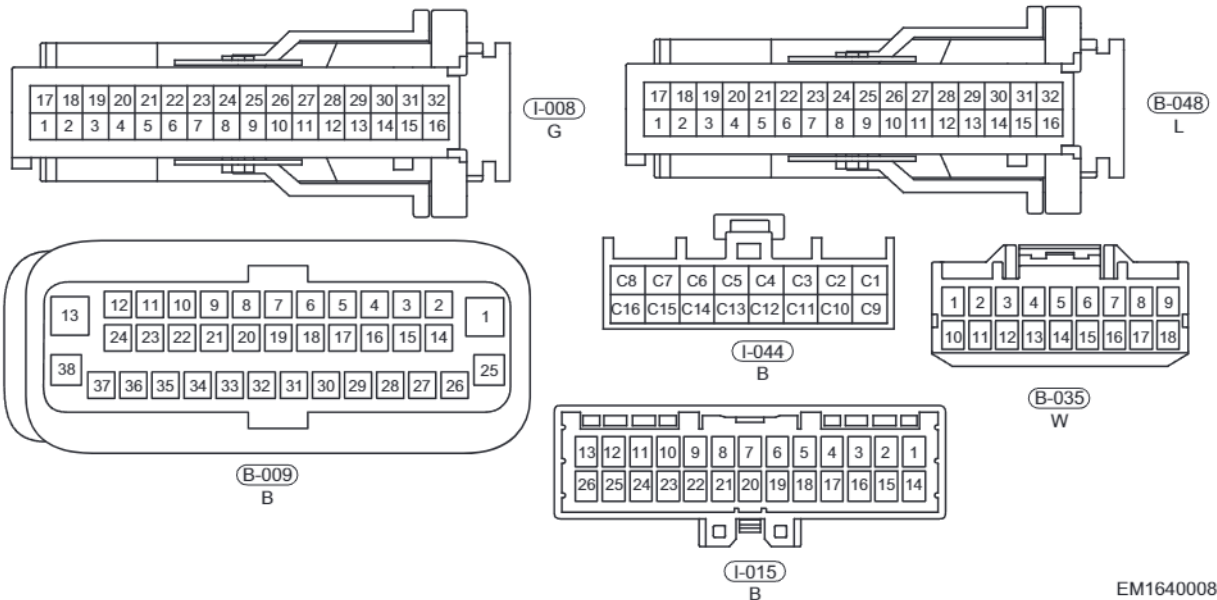
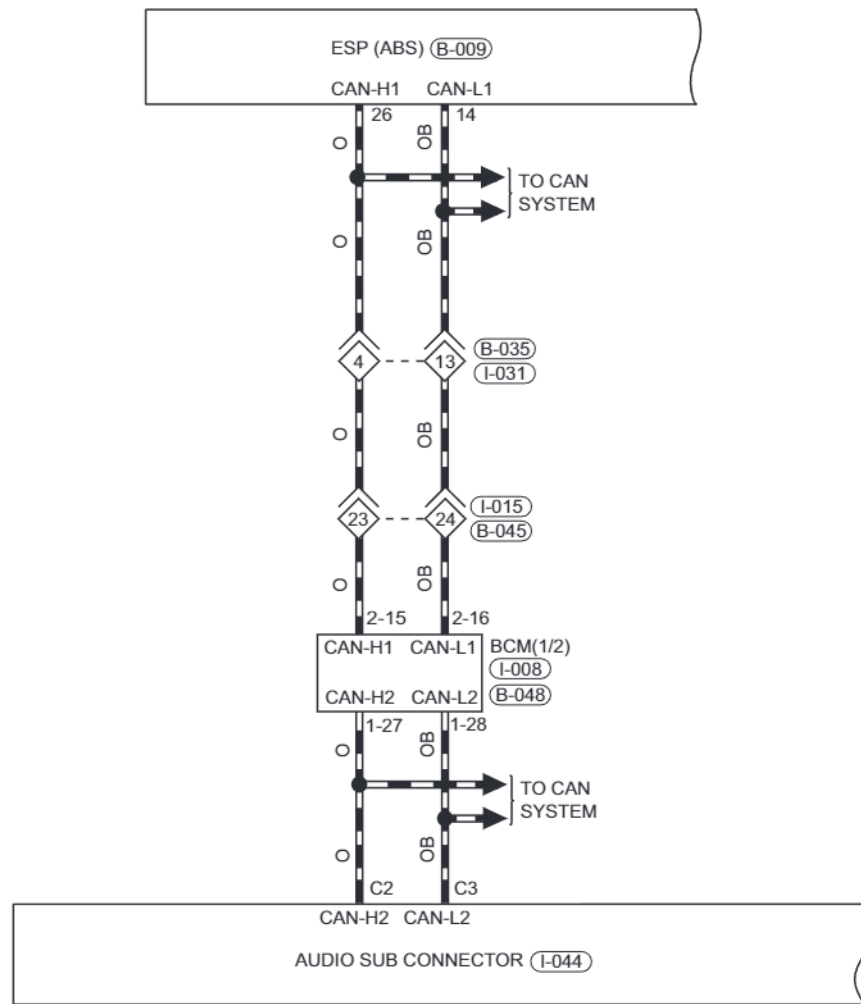
OK

System is normal

DTC

B1809-00

Speed Signal Abnormal No Subtype Information



EM16400080

40



Self-diagnosis Detection Logic

DTC Code	DTC Definition	DTC Detection Condition	Possible Cause
B1809-00	Speed Signal Abnormal No Subtype Information	Ignition switch ON	- Vehicle speed sensor - CAN line

DTC Confirmation Procedure:

Confirm that battery voltage is 11 to 14 V before performing the following procedures.

- Turn ignition switch to LOCK.
- Connect X-431 3G diagnostic tester (the latest software) to Data Link Connector (DLC), and make it communicate with vehicle electronic module through data network.
- Turn ignition switch to ON.
- Use X-431 3G diagnostic tester to record and clear the DTCs stored in DVD system.
- Turn ignition switch to LOCK and wait for a few seconds.
- Turn ignition switch to ON, and then select Read Code.
- If DTC is detected, the malfunction indicated by the DTC is current. Go to the diagnosis procedure - Step 1.
- If no DTC is detected, the malfunction indicated by the DTC is intermittent ([See page 40-13](#)).

 CAUTION

- When performing circuit diagnosis and test, always refer to the circuit diagram for specific circuit and component information.

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Diagnosis Procedure

1	Check vehicle speed sensor
---	----------------------------

a. Check the vehicle speed sensor.

NG	Replace vehicle speed sensor
----	------------------------------

OK

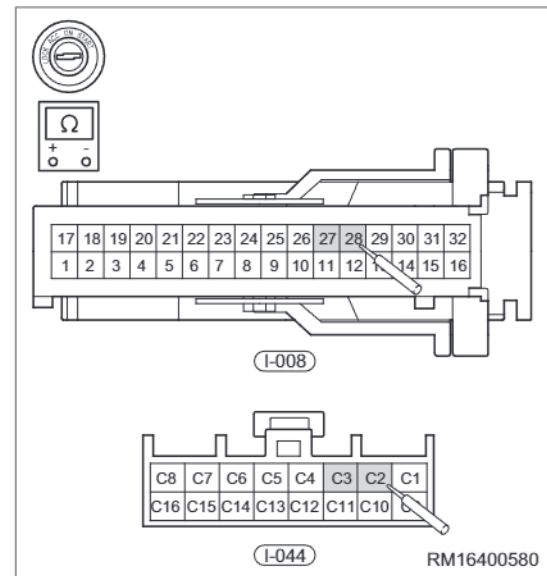
2 Check CAN line (No Disc DVD control module - BCM)

- Turn ignition switch to LOCK.
- Disconnect the negative battery cable.
- Disconnect the instrument panel wire harness connectors I-008 and I-044.
- Using a digital multimeter, check for continuity between instrument panel wire harness connectors I-008 and I-044 according to the table below.

Multimeter Connection	Specified Condition
I-008 (28) - I-044 (C2)	Continuity
I-008 (27) - I-044 (C3)	Continuity

NG

Repair or replace CAN line

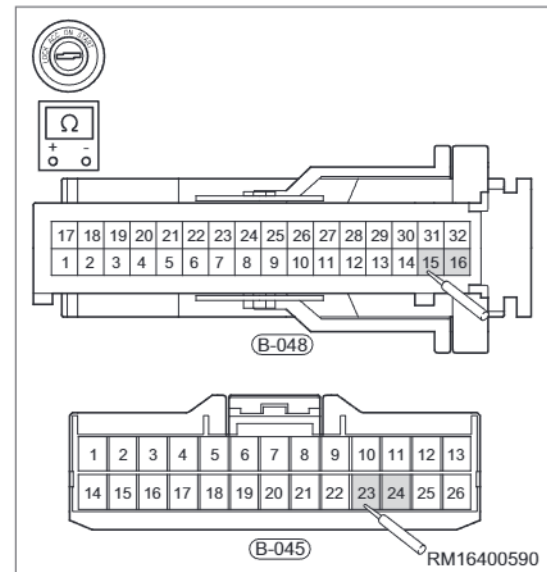


OK

3 Check CAN line (BCM-EPS (ABS))

- Turn ignition switch to LOCK.
- Disconnect the negative battery cable.
- Disconnect the body wire harness connectors B-048 and B-045.
- Using a digital multimeter, check for continuity between body wire harness connectors B-048 and B-045 according to the table below.

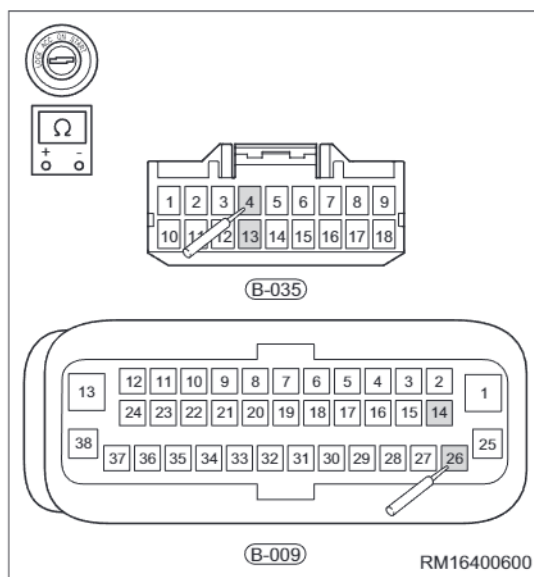
Multimeter Connection	Specified Condition
B-048 (15) - B-045 (23)	Continuity
B-048 (16) - B-045 (24)	Continuity



40

- e. Disconnect the body wire harness connectors B-009 and B-035.
- f. Using a digital multimeter, check for continuity between body wire harness connectors B-009 and B-035 according to the table below.

Multimeter Connection	Specified Condition
B-009 (26) - B-035 (4)	Continuity
B-009 (14) - B-035 (13)	Continuity



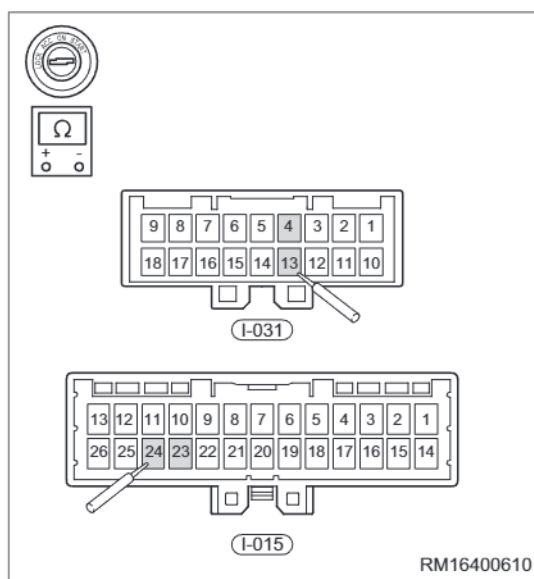
- g. Disconnect the instrument panel wire harness connectors I-015 and I-031.
- h. Using a digital multimeter, check for continuity between instrument panel wire harness connectors I-015 and I-031 according to the table below.

Multimeter Connection	Specified Condition
I-015 (23) - I-031 (4)	Continuity
I-015 (24) - I-031 (13)	Continuity

40

NG

Repair or replace CAN line



OK

4

Reconfirm DTCs

- Connect all connectors.
- Connect the negative battery cable.
- Turn ignition switch to ON.
- Use X-431 3G diagnostic tester (the latest software) to record and clear the DTCs stored in No Disc DVD control system.
- Turn ignition switch to LOCK and wait for a few seconds.
- Turn ignition switch to ON.
- Use X-431 3G diagnostic tester (the latest software) to read the DTCs stored in No Disc DVD control system again.
- Read DTCs.

Result	Proceed to
DTC B1809-00 is output	NG
No DTC is output	OK

NG**Replace No Disc DVD control module****OK****System is normal**

ON-VEHICLE SERVICE

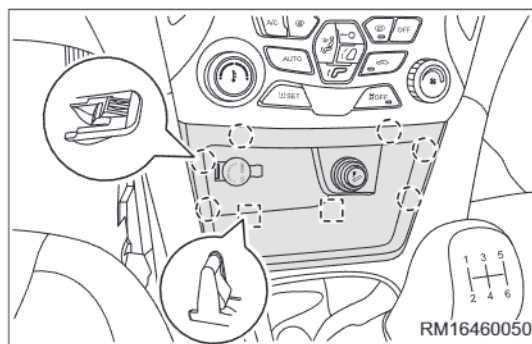
TFT Display & No Disc DVD Control Panel

Removal

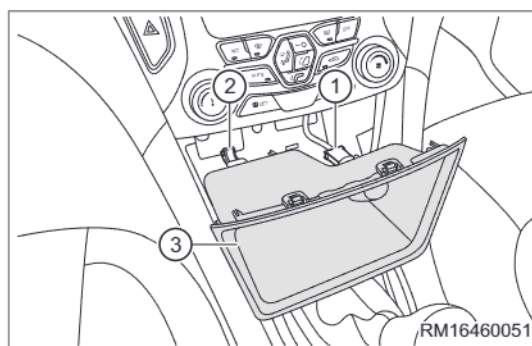
CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing TFT display and No Disc DVD control panel.
- Appropriate force should be applied, when removing TFT display and No Disc DVD control panel. Be careful not to operate roughly.
- DO NOT scratch interior when removing TFT display and No Disc DVD control panel.

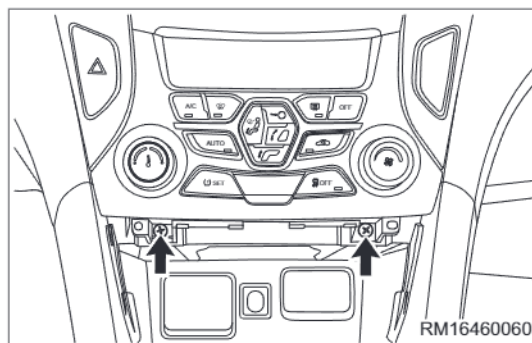
1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the lower center storage box assembly.
 - a. Using a screwdriver wrapped with protective tape, pry up the clips on lower center storage box assembly.



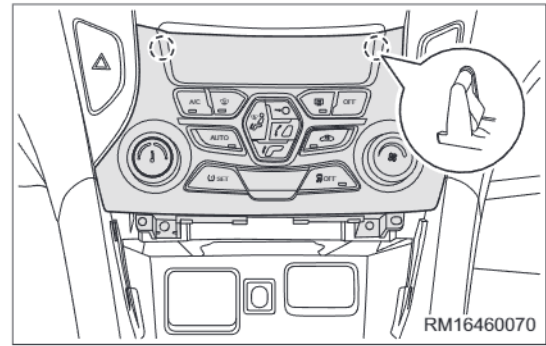
- b. Disconnect the cigarette lighter connector (1) and backup power supply connector (2), and remove the lower center storage box assembly (3).



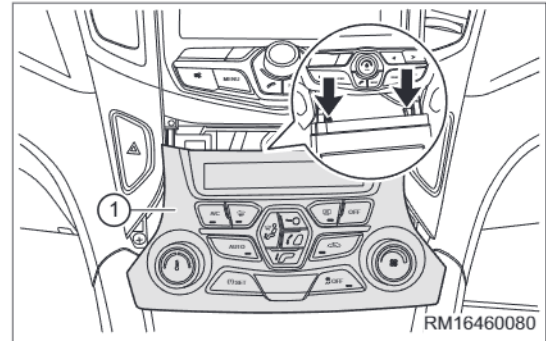
4. Remove the center control integration panel assembly.
 - a. Remove 2 fixing screws (arrow) from center control integration panel assembly.
(Tightening torque: 1.5 ± 0.5 N·m)



- b. Using a screwdriver wrapped with protective tape, pry up the clips on center control integration panel assembly.

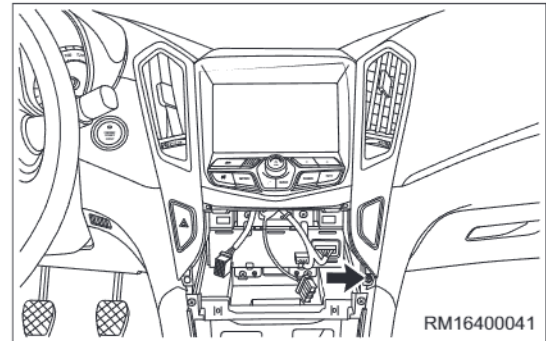


- c. Disconnect the connectors (arrow) from center control integration panel and remove the center control integration panel assembly (1).

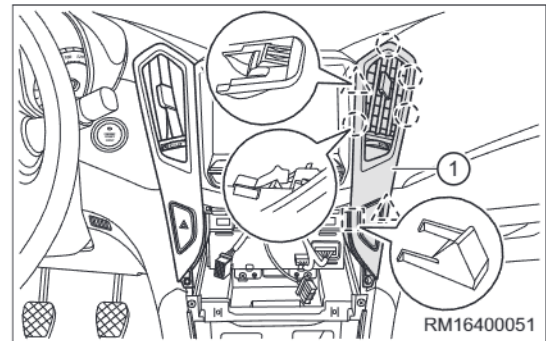


5. Remove the center right outlet panel assembly.

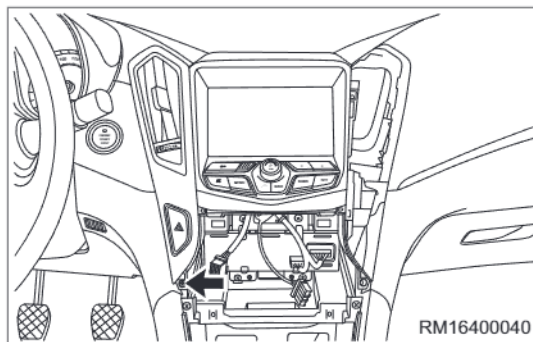
- a. Remove the fixing screw (arrow) from center right outlet panel assembly.
(Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)



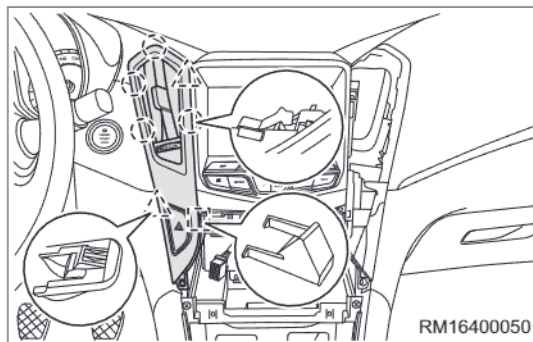
- b. Using a screwdriver wrapped with protective tape, pry up the clips on center right outlet panel assembly, and remove the center right outlet panel assembly (1).



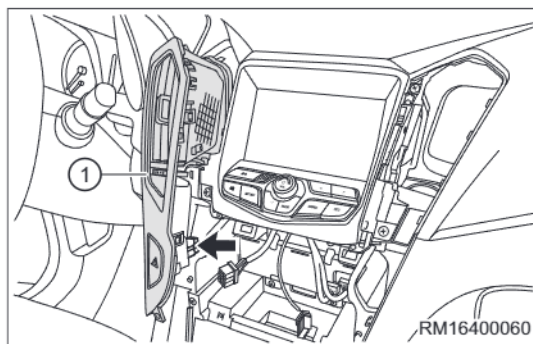
6. Remove the center left outlet panel assembly.
 - a. Remove the fixing screw (arrow) from center left outlet panel assembly.
(Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)



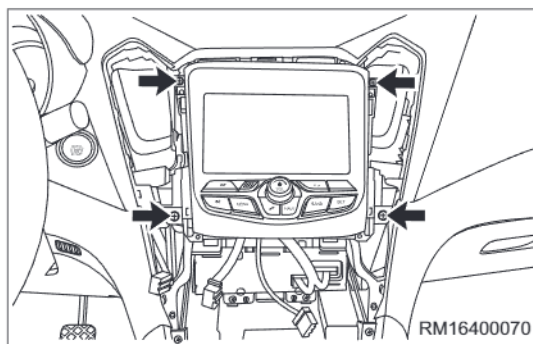
- b. Using a screwdriver wrapped with protective tape, pry up the clips on center left outlet panel assembly.



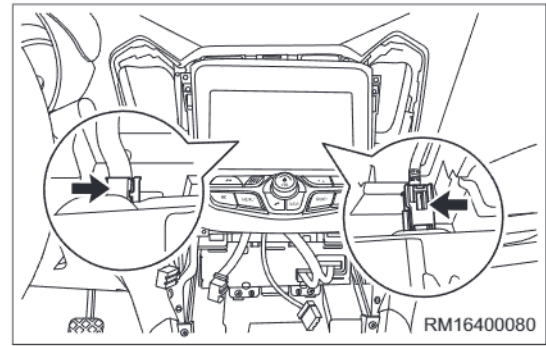
- c. Disconnect the hazard warning light connector (arrow), and remove the center left outlet panel assembly (1).



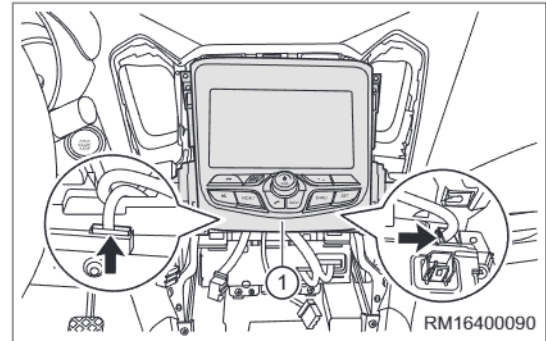
7. Remove the TFT display and No Disc DVD control panel.
 - a. Remove 4 fixing screws (arrow) from No Disc DVD trim cover assembly.
(Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)



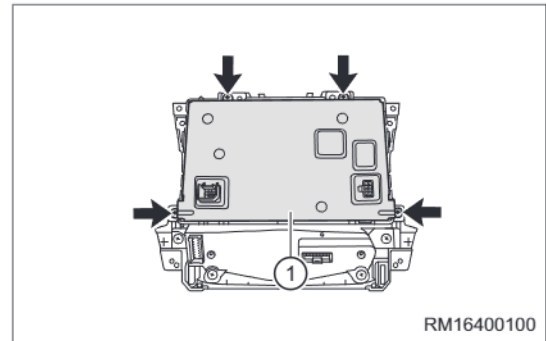
- b. Disconnect the connectors (arrow) from TFT display.



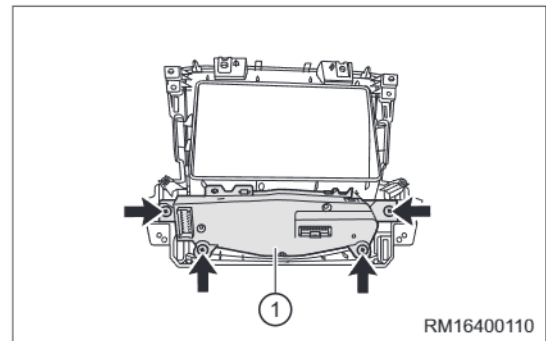
- c. Disconnect the connectors (arrow) from No Disc DVD control panel, and remove the No Disc DVD trim cover assembly (1).



- d. Remove 4 fixing screws (arrow) from TFT display, and remove the TFT display (1).
(Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)



- e. Remove 4 fixing screws (arrow) from No Disc DVD control panel, and remove the No Disc DVD control panel (1).
(Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)



40

Inspection

1. Check TFT display and No Disc DVD control panel connectors and terminals for deformation or damage. Replace if necessary.
2. Check connectors for damage. Replace if necessary.
3. Check TFT display and No Disc DVD control panel for deformation or damage. Replace if necessary.

Installation

Installation is in the reverse order of removal.

CAUTION

- Operate carefully to prevent other components from being damaged, when installing TFT display and No Disc DVD control panel.
- Be sure to tighten fixing screws to the specified torque, when installing TFT display and No Disc DVD control panel.
- Install each connector in place when installing TFT display and No Disc DVD control panel.
- Check TFT display and No Disc DVD control panel for proper operation after installation.

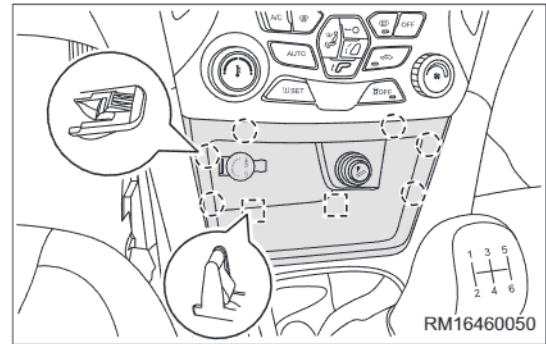
No Disc DVD

Removal

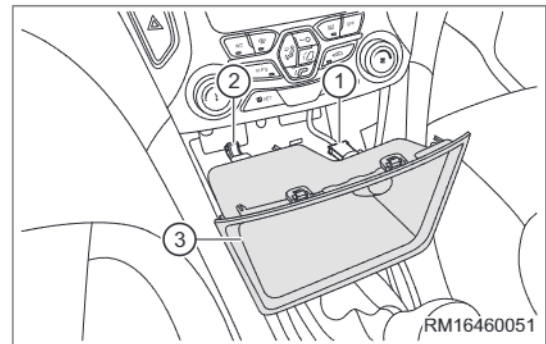
CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing No Disc DVD.
- Appropriate force should be applied when removing No Disc DVD. Be careful not to operate roughly.
- DO NOT scratch interior when removing No Disc DVD.

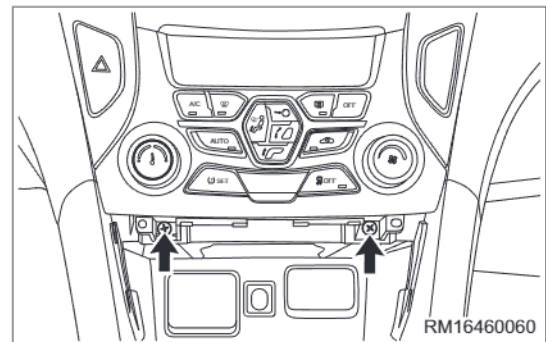
1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the lower center storage box assembly.
 - a. Using a screwdriver wrapped with protective tape, pry up the clips on lower center storage box assembly.



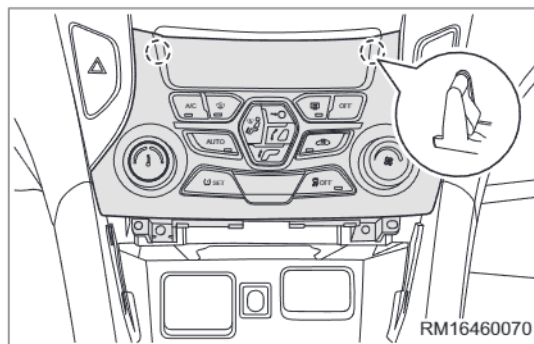
- b. Disconnect the cigarette lighter connector (1) and backup power supply connector (2), and remove the lower center storage box assembly (3).



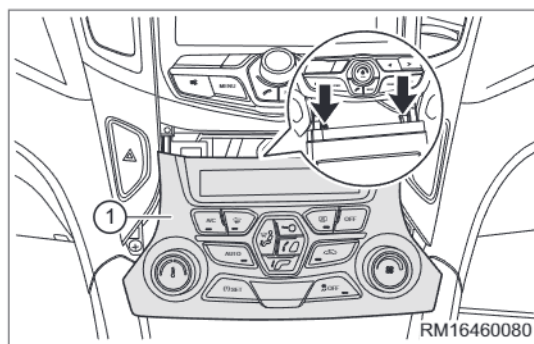
4. Remove the center control integration panel assembly.
 - a. Remove 2 fixing screws (arrow) from center control integration panel assembly. (Tightening torque: 1.5 ± 0.5 N·m)



- b. Using a screwdriver wrapped with protective tape, pry up the clips on center control integration panel assembly.

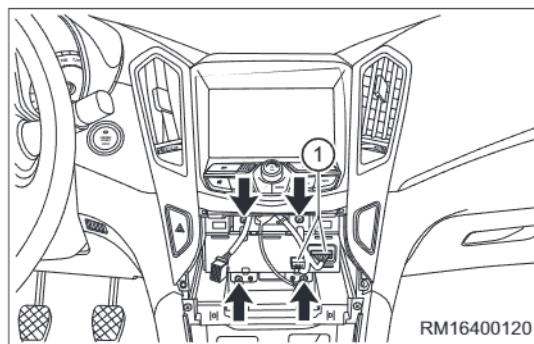


- c. Disconnect the connectors (arrow) from center control integration panel, and remove the center control integration panel assembly (1).

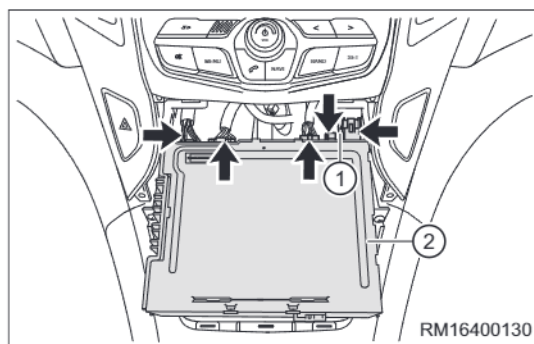


5. Remove the No Disc DVD.

- a. Disconnect the connectors (1) from the front part of No Disc DVD.
- b. Remove 4 fixing screws (arrow) from No Disc DVD. (Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)



- c. Pull out the No Disc DVD, disconnect the connectors (arrow) and antenna (1) from the rear part of No Disc DVD, and remove the No Disc DVD (2).



Installation

Installation is in the reverse order of removal.

CAUTION

- Operate carefully to prevent other components from being damaged, when installing No Disc DVD.
- Be sure to tighten fixing screws to the specified torque, when installing No Disc DVD.
- Install each connector and antenna in place, when installing No Disc DVD.
- Check audio system for proper operation, after installing No Disc DVD.

Tweeter Assembly

Removal

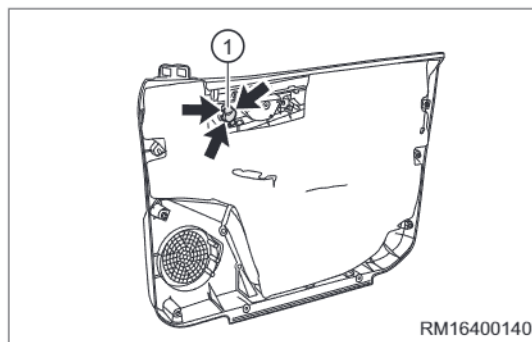
HINT:

- Use same procedures for right and left sides.
- Procedures listed below are for left side.

CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing tweeter assembly.
- Appropriate force should be applied when removing tweeter assembly. Be careful not to operate roughly.
- DO NOT scratch front door inner protector assembly, when removing tweeter assembly.

1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the tweeter assembly.
 - a. Remove the front left door inner protector assembly ([See page 48-22](#)).
 - b. Using a screwdriver wrapped with protective tape, detach the clips (arrow) on tweeter assembly, and remove the tweeter assembly (1).



Inspection

Check tweeter connector for damage and terminals for bend or poor connection. Replace if necessary.

Installation

Installation is in the reverse order of removal.

CAUTION

- Operate carefully to prevent other components from being damaged, when installing tweeter assembly.
- Install connector in place when installing tweeter assembly.
- Check tweeter assembly for proper operation after installation.

Full-range Speaker Assembly

Removal

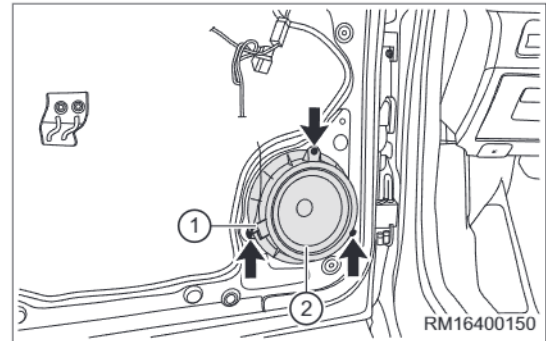
HINT:

- Use same procedures for right and left sides.
- Procedures listed below are for left side.

CAUTION

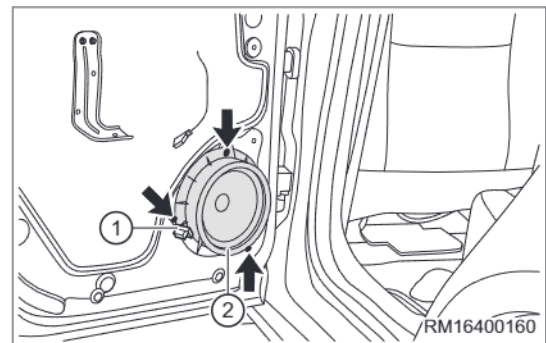
- Be sure to wear safety equipment to prevent accidents, when removing full-range speaker assembly.
- Appropriate force should be applied when removing full-range speaker assembly. Be careful not to operate roughly.
- DO NOT scratch interior when removing full-range speaker assembly.

1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the front left full-range speaker assembly.
 - a. Remove the front left door inner protector assembly ([See page 48-22](#)).
 - b. Disconnect the front full-range speaker assembly connector (1).
 - c. Remove 3 fixing screws (arrow) from front full-range speaker assembly, and remove the front left full-range speaker assembly (2).
(Tightening torque: $2.0 \pm 0.5 \text{ N}\cdot\text{m}$)



40

4. Remove the rear left full-range speaker assembly.
 - a. Remove the rear left door inner protector assembly ([See page 48-34](#)).
 - b. Disconnect the rear full-range speaker assembly connector (1).
 - c. Remove 3 fixing screws (arrow) from rear full-range speaker assembly, and remove the rear left full-range speaker assembly (2).
(Tightening torque: $2.0 \pm 0.5 \text{ N}\cdot\text{m}$)



Inspection

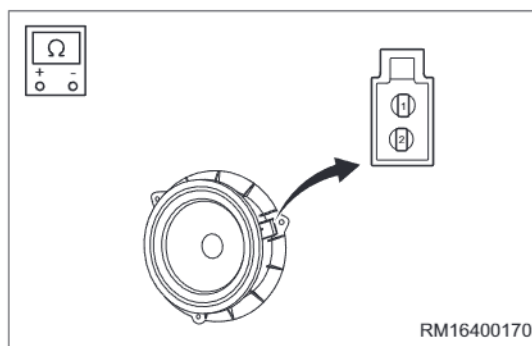
1. Check the full-range speaker assembly.
 - a. Using a digital multimeter, measure the resistance of full-range speaker assembly according to the table below.

Standard Resistance

Multimeter Connection	Condition	Specified Condition
Terminal 1 - Terminal 2	Always	Approximately 3.9 Ω

If result is not as specified, replace the full-range speaker assembly.

2. Check cone paper of full-range speaker assembly for damage or deformation. Replace if necessary.
3. Check full-range speaker assembly connector for damage and terminals for bend or poor connection. Replace if necessary.



Installation

Installation is in the reverse order of removal.

CAUTION

- Operate carefully to prevent other components from being damaged, when installing full-range speaker assembly.
- Be sure to tighten fixing screws to the specified torque, when installing full-range speaker assembly.
- Install connector in place when installing full-range speaker assembly.
- Check full-range speaker assembly for proper operation after installation.

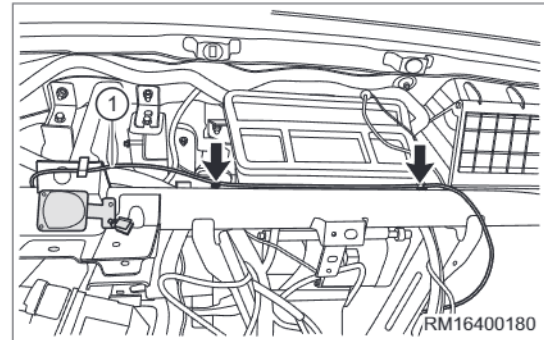
GPS Antenna Assembly (if equipped)

Removal

CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing GPS antenna assembly.
- Appropriate force should be applied when removing GPS antenna assembly. Be careful not to operate roughly.
- DO NOT scratch interior when removing GPS antenna assembly.

1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the GPS antenna assembly.
 - a. Remove the instrument panel assembly (See page 46-20).
 - b. Detach the clips (arrow) from GPS antenna assembly, and remove the GPS antenna assembly (1).



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Inspection

1. Check the GPS antenna assembly.
 - a. Check GPS antenna assembly for wear, cracks, deformation or damage. Replace if necessary.
 - b. Check terminals of GPS antenna assembly connector for deformation or bend. Replace if necessary.

Installation

Installation is in the reverse order of removal.

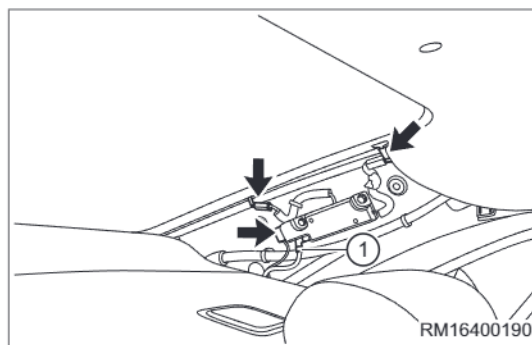
Amplifier

Removal

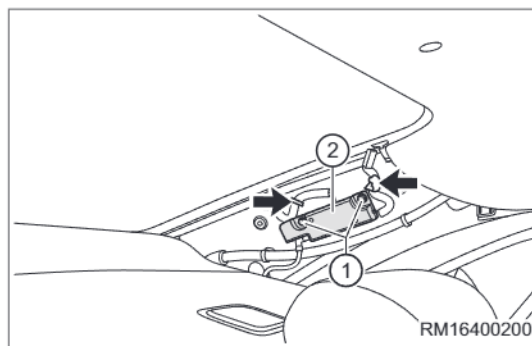
CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing amplifier.
- Appropriate force should be applied when removing amplifier. Be careful not to operate roughly.
- DO NOT scratch interior when removing amplifier.

1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the amplifier.
 - a. Remove the left C-pillar upper protector assembly ([See page 50-24](#)).
 - b. Disconnect the connectors (arrow) and antenna (1) from amplifier.



- c. Using a screwdriver wrapped with protective tape, detach the clips (arrow) from wire harness.
- d. Remove 2 fixing bolts (1) from amplifier, and remove the amplifier (2).
(Tightening torque: $7 \pm 1.5 \text{ N}\cdot\text{m}$)



Inspection

1. Check the amplifier.
 - a. Check antenna assembly for wear, cracks, deformation or damage. Replace if necessary.
 - b. Check antenna assembly for looseness or disengagement. Replace if necessary.
 - c. Check terminals of antenna connector for deformation or bend. Replace it if necessary.

Installation

Installation is in the reverse order of removal.

CAUTION

- Operate carefully to prevent other components from being damaged, when installing amplifier.
- Be sure to tighten fixing bolts to the specified torque, when installing amplifier.
- Install each connector and antenna in place when installing amplifier.
- Check audio system for proper operation after installing amplifier.

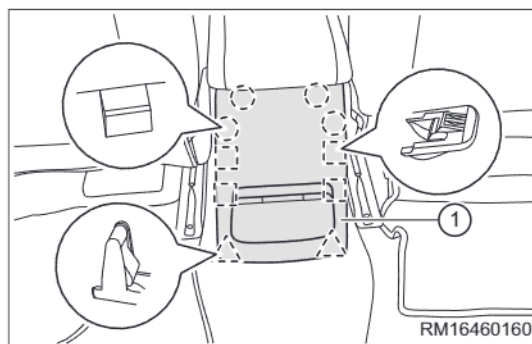
Multi-function Interface

Removal

CAUTION

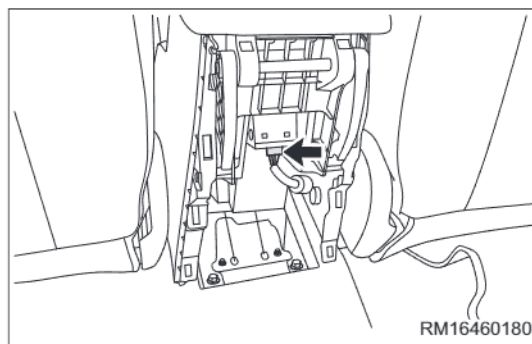
- Be sure to wear safety equipment to prevent accidents, when removing multi-function interface.
- Appropriate force should be applied when removing multi-function interface. Be careful not to operate roughly.

1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the multi-function interface.
 - a. Using a screwdriver wrapped with protective tape, pry up the clips on auxiliary fascia console rear panel assembly, and remove the auxiliary fascia console rear panel assembly (1).

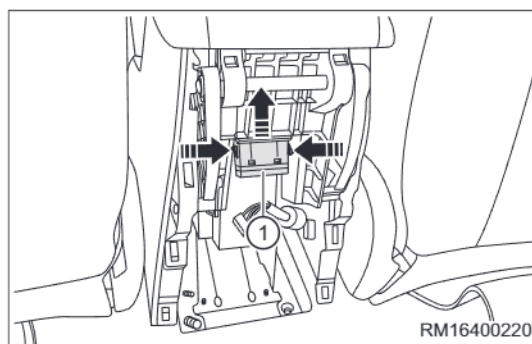


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- b. Disconnect the multi-function interface connector (arrow).



- c. Press the locating clip on multi-function interface in the direction of arrow as shown in the illustration, and remove the multi-function interface (1).



Installation

Installation is in the reverse order of removal.

CAUTION

- Operate carefully to prevent other components from being damaged, when installing multi-function interface.
- Install connector in place when installing multi-function interface.
- Check multi-function interface for proper operation after installation.

Steering Wheel Quick Button (if equipped)

Removal

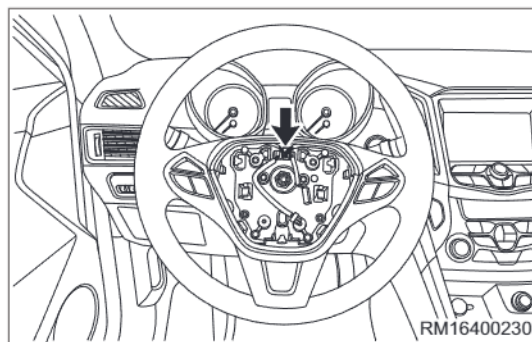
CAUTION

- Be sure to read precautions for SRS airbag before removing steering wheel quick button ([See page 32-85](#)).

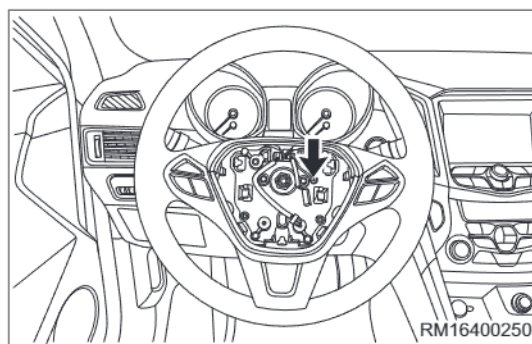
CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing steering wheel quick button.
- Prevent damage to claws on steering wheel quick button trim cover, when removing steering wheel quick button.

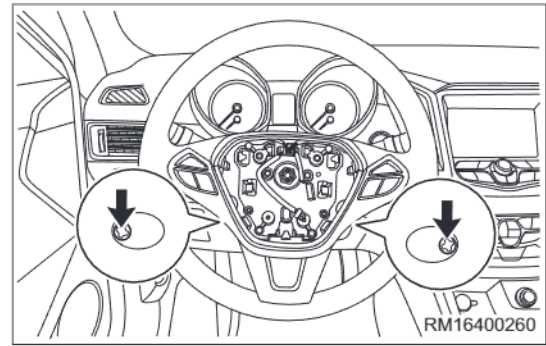
1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the driver airbag assembly ([See page 32-84](#)).
4. Remove the steering wheel quick button trim cover.
 - a. Disconnect the steering wheel quick button connector (arrow).



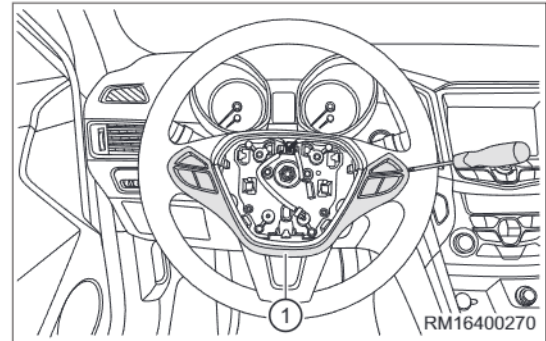
- b. Remove the fixing screw (arrow) from ground wire harness.
(Tightening torque: $0.7 \pm 0.2 \text{ N}\cdot\text{m}$)



- c. Remove 2 fixing screws (arrow) from steering wheel quick button trim cover.
(Tightening torque: 0.7 ± 0.2 N·m)

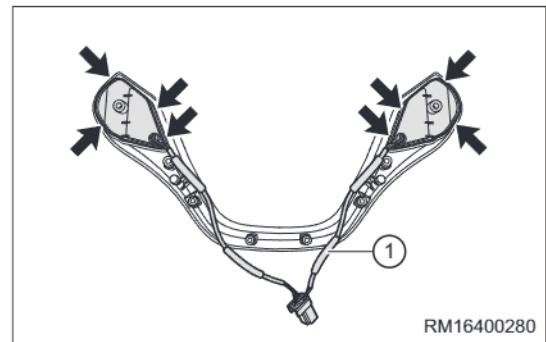


- d. Using a screwdriver wrapped with protective tape, pry up the claws on steering wheel quick button trim cover, and remove the steering wheel quick button trim cover (1).



5. Remove the steering wheel quick button.

- a. Using a screwdriver wrapped with protective tape, detach the clips (arrow) on steering wheel quick button, and remove the steering wheel quick button (1).



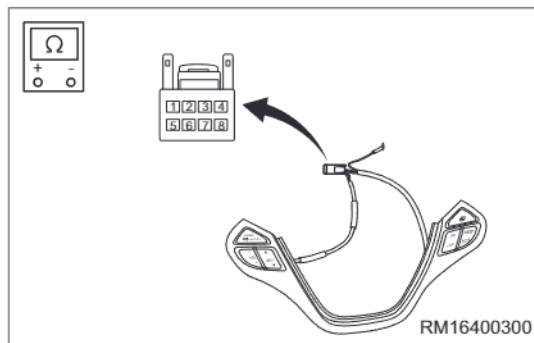
Inspection

1. Check steering wheel quick button.
 - a. Check steering wheel quick button for damage. Replace if necessary.
 - b. Check steering wheel quick button connector for damage or poor terminal connection. Replace if necessary.
 - c. Check for continuity of wire harness between steering wheel quick button connector and audio unit (TFT display). Replace if necessary.
 - d. Using a digital multimeter, measure the resistance of steering wheel quick button according to the value(s) in the table below.

Standard Resistance

Multimeter Connection	Switch Condition	Specified Condition
Terminal 7 - Terminal 8	MODE	Approximately 7.99 k Ω
Terminal 7 - Terminal 8	VOL+	Approximately 1.51 k Ω
Terminal 7 - Terminal 8	VOL-	Approximately 3.20 k Ω
Terminal 7 - Terminal 8	SEEK $\wedge$	Approximately 0.24 k Ω
Terminal 7 - Terminal 8	SEEK $\vee$	Approximately 0.7 k Ω

If result is not as specified, replace the steering wheel quick button.



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Installation

Installation is in the reverse order of removal.

CAUTION

- Operate carefully to prevent other components from being damaged, when installing steering wheel quick button.
- Install each connector in place when installing steering wheel quick button.
- Tighten fixing screws to the specified torque, when installing steering wheel quick button.
- Check steering wheel quick button for proper operation after installation.

