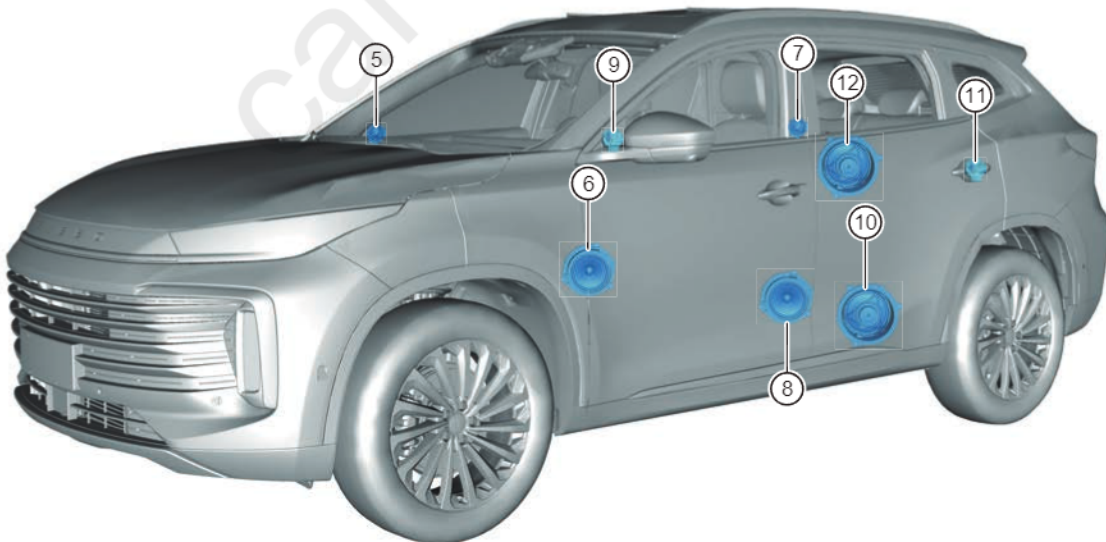
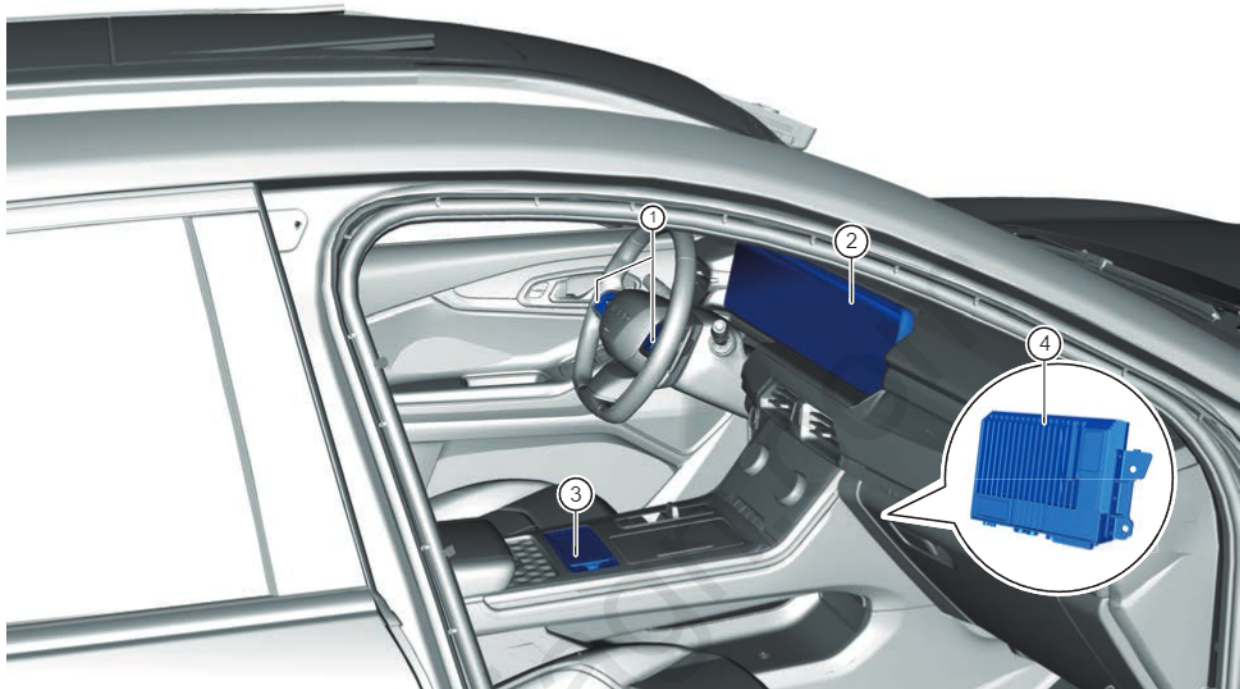

BODY ELECTRICAL

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35.1 AUDIO/VISUAL SYSTEM

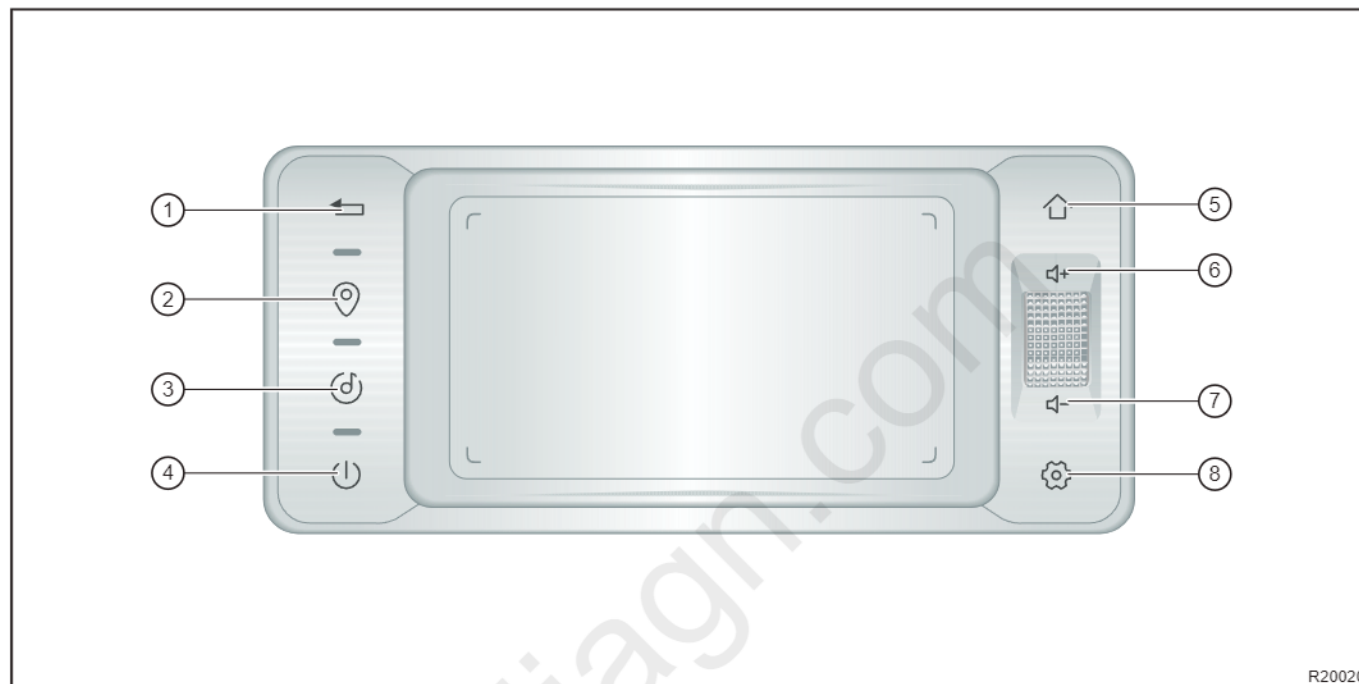
1 SYSTEM OVERVIEW

1.1 System Components Diagram



R20010

1	Steering Wheel Quick Button	7	Rear Right Tweeter
2	Dual-screen	8	Rear Right Woofer
3	Audio Control Panel	9	Front Right Tweeter
4	Domain Controller	10	Front Left Woofer
5	Front Right Tweeter	11	Rear Left Tweeter
6	Front Right Woofer	12	Rear Left Woofer



R20020

1	Back	8	Home Page
2	Navigation	9	Volume +
3	Music	10	Volume -
4	POWER	11	Setting

1.2 System Principle

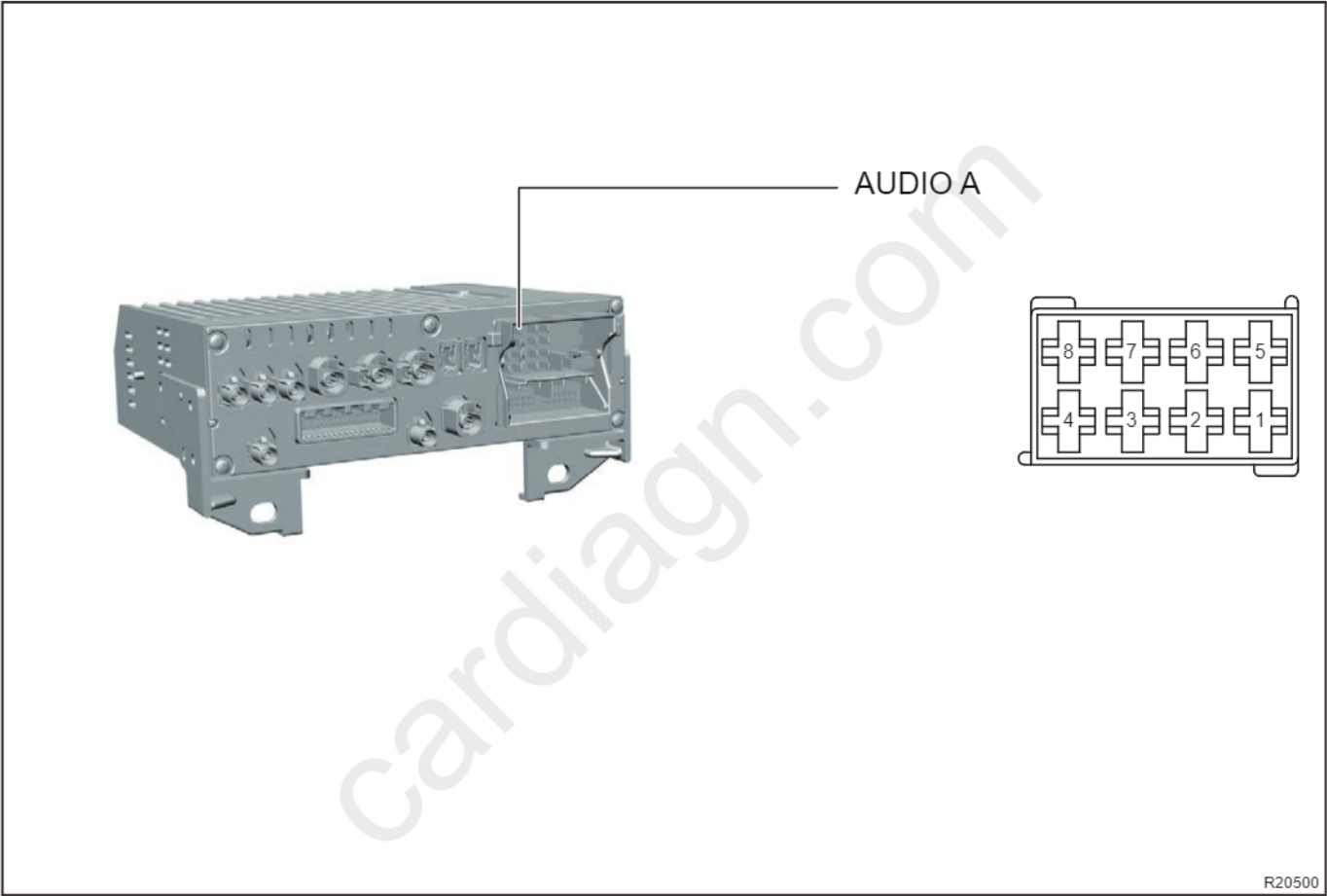
- A domain controller indicates that at least one server is responsible for the verification of each computer and user connected to the network in "domain" mode, which is equivalent to the guard of a unit, called "- Domain Controller (abbreviated for DCM)". In T1D model, the domain controller integrates the instrument cluster module (ICM) and the audio head unit module (RRM) into one module, but both the modules still operate independently by their independent ECU.
- The domain controller (audio head unit) part still maintains the traditional audio head unit function.
- Audio control panel controls the domain controller (audio head unit) by transmitting information via CAN line network.
- The multi-function steering wheel controls the domain controller (audio head unit) by transmitting signal to the central gateway module (CGW) via LIN line, and then transmitting information via CAN line network.
- The multi-function steering wheel (standard type) controls the domain controller (audio head unit) by transmitting information directly via ordinary dedicated line.
- The radio/AVM video/face recognition camera/AR navigation is transmitted to the domain controller (audio head unit) via digital signals.
- The data between domain controller (audio head unit) and USB1/USB2/TBOX is transmitted via universal serial bus (USB).

- The data between domain controller (audio head unit) and instrument cluster display is transmitted via low voltage differential signal (LDVS).
- The voice signal of microphone 1 is transmitted to the domain controller (audio head unit) via TBOX, and the voice signal of microphone 2 is directly transmitted to the domain controller (audio head unit).
- The standard reversing image transmits signal from ordinary camera to the domain controller (audio head unit) via a dedicated line.

2 DIAGNOSIS & TESTING

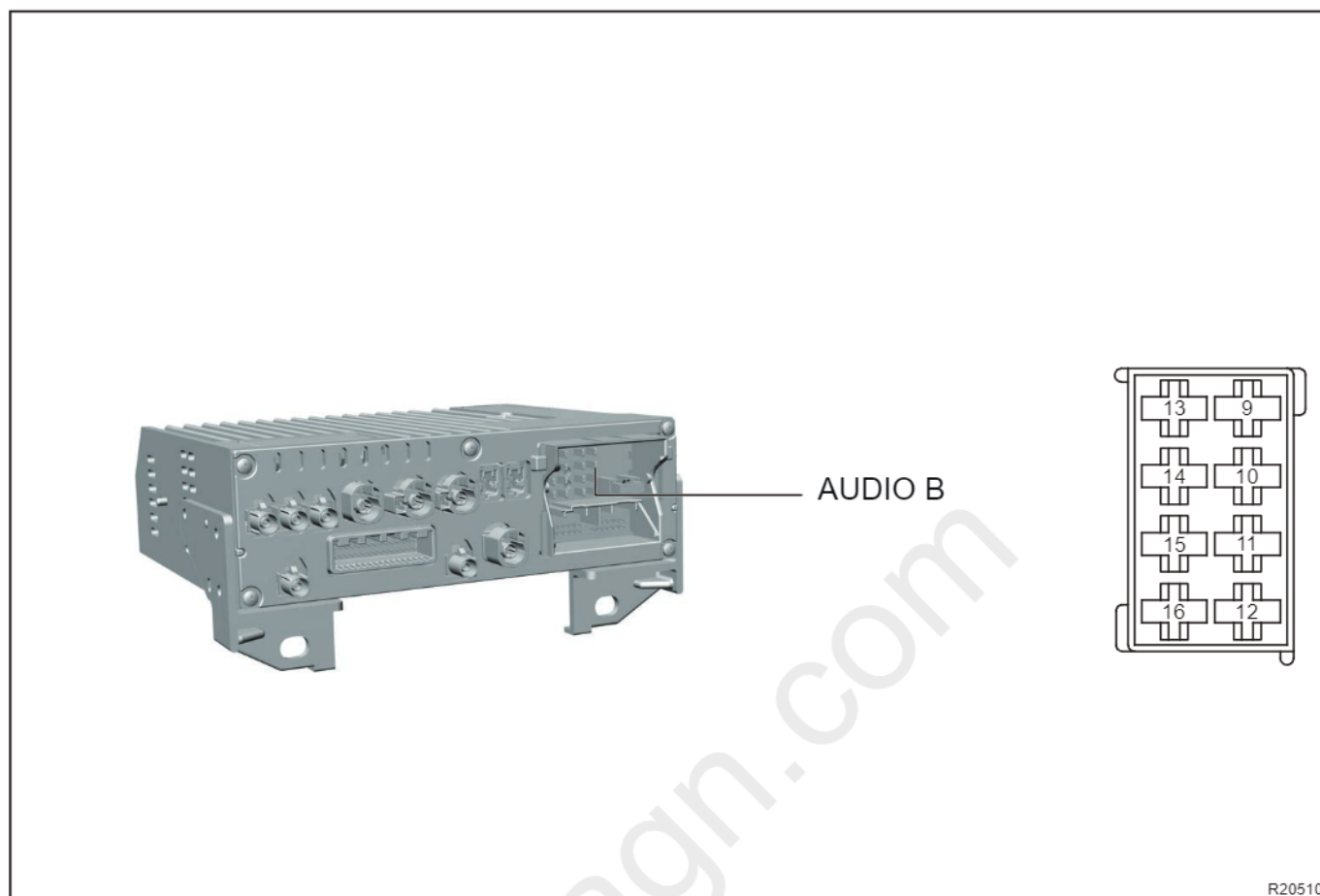
2.1 Module Terminal Definition

■ Terminal Definition of Domain Controller (Audio Unit A)



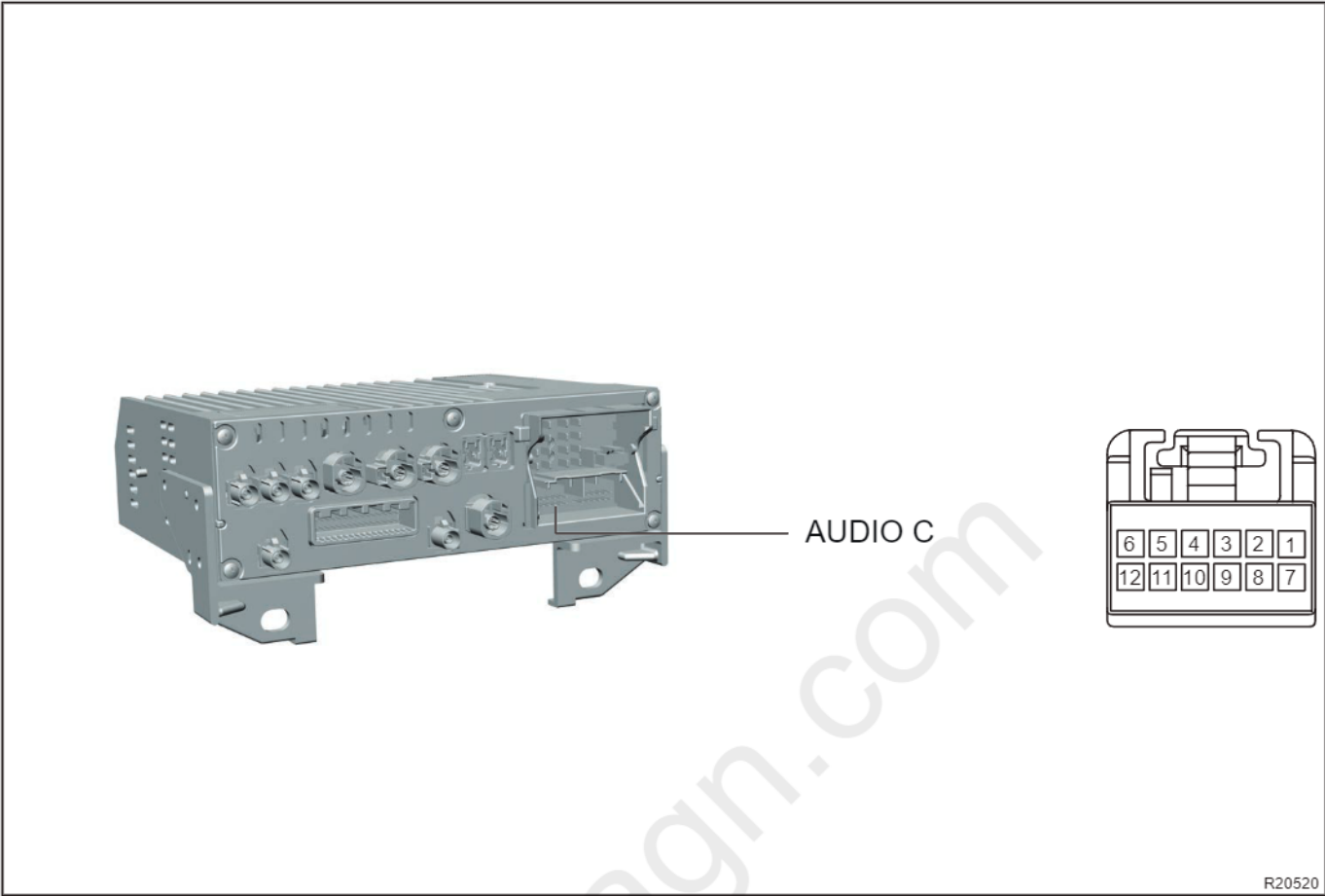
Pin	Definition	Pin	Definition
1	Rear Right Speaker +	5	Rear Right Speaker -
2	Front Right Speaker +	6	Front Right Speaker -
3	Front Left Speaker +	7	Front Left Speaker -
4	Rear Left Speaker +	8	Rear Left Speaker -

Terminal Definition of Domain Controller (Audio Unit B)



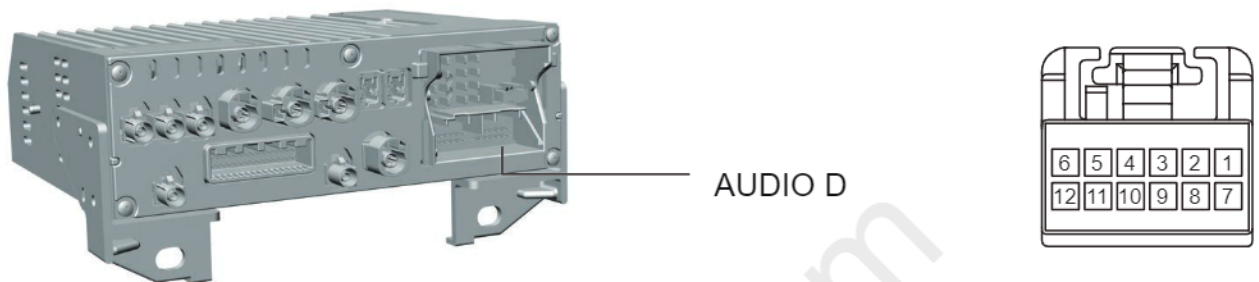
Pin	Definition	Pin	Definition
9	-	13	ACC
10	-	14	-
11	-	15	Power Supply
12	Ground	16	-

■ Terminal Definition of Domain Controller (Audio Unit C)



Pin	Definition	Pin	Definition
1	Entertainment Information CAN H	7	Entertainment Information CAN L
2	Ignition Signal	8	-
3	Left MIC - Signal	9	Left MIC+ Signal
4	Right MIC+ Signal	10	Right MIC- Signal
5	-	11	-
6	-	12	-

■ Terminal Definition of Domain Controller (Audio Unit D)



R20530

Pin	Definition	Pin	Definition
1	T-BOX Audio Right Channel	7	T-BOX Audio Left Channel
2	T-BOX Audio Public Terminal Ground	8	-
3	T-BOX Mute Line Input	9	-
4	-	10	-
5	-	11	-
6	-	12	-

2.2 Problem Symptoms Table

Hint:

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

Current Status	Symptom	Possible Cause and Solution
General condition	Head unit operates, but has no sound or sound is very low	Turn up the volume. Check setting of front and rear, left and right balance for horn

Current Status	Symptom	Possible Cause and Solution
	Navigation volume cannot be adjusted	Stop vehicle, and adjust volume on navigation screen or volume setting screen
	Head unit screen cannot be operated	In some states, operations of screen are not available. End current state, long press the Power button for 10S to restart the system and try to operate the screen again. Or click the [SET] button to restore factory setting in the system setting
	Some functions in air conditioning and setting are not available	Some functions related to the vehicle are available only when ENGINE START STOP switch is in ON
Radio playback	Poor reception	Check if antenna is fully deployed, connection is correct (whether negative is grounded). The required radio signal is too weak, please use manual search
	Automatic search cannot search a available station	When there are multiple available stations in current range and favorite station is 0, only 40 stations with the strongest signal can be searched. If you have other favorite ones, please manually search and store them
USB file playback	There are unplayable files	The system cannot support all formats files. There are many audio and video formats nowadays. Even file formats supported by audio video descriptions may not be supported due to the different encoding formats. Please refer to audio video descriptions, download supported formats and try
	Volume fluctuates up and down during playback	Volume fluctuates up and down during playback, because there is no uniform standard, the volume cannot be handled uniformly, please adjust the volume knob by yourself
	Knocking / noise	It may be caused when the original file is being recorded or caused by noise, please confirm if it is a native problem with other players
	USB audio, video, pictures cannot be played normally and no prompt is given	Due to large number of USB manufacturers, the file system, supported protocols, etc. are very different, the system cannot support all of them. Please try another USB.

Current Status	Symptom	Possible Cause and Solution
Music playback	Bluetooth music name is showed as unknown	The model shows name in accordance with Bluetooth standard, if phone does not comply with the standard, it will be shown as unknown. Please change your phone and try again
Speech recognition	Inaccurate speech recognition	Say out voice command words provided by voice recognition system as much as possible and use Mandarin; Try to keep the vehicle quiet, and use voice recognition function in low noise surroundings; Microphone is located at dome light position, so if noise is unavoidable, say command out as close to the microphone as possible

Hint:

If fault still cannot be troubleshooted, please drive vehicle to a Chery authorized after-sales service center or 4S shop for inspection and repair. Never disassemble the head unit without authorization and repair it by yourself.

2.3 Diagnostic Help

- (1) Connect diagnostic tester X-431 3G (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 Diagnostic Trouble Code (DTC) cannot be cleared, it indicates that there is a current malfunction.
- (4) Only use a digital multimeter to measure voltage of electronic system.
- (5) Refer to any Technical Bulletin that may apply to this malfunction.
- (6) Visually check related wire harness and connector.
- (7) Check and clean all CD system grounds related to the latest DTCs.
- (8) If numerous trouble codes are set, refer to circuit diagram and look for any common ground circuit or power supply circuit applied to DTC.

2.4 Intermittent DTC Troubleshooting

If malfunction is intermittent, perform the followings:

- Check if connector is loose.
- Check if wire harness is worn, pierced, pinched or partially broken.
- Monitor diagnostic tester (the latest software) data that is related to this circuit.
- Wiggle related wire harnesses and connectors and observe if signal is interrupt in related circuit.
- If possible, try to duplicate the conditions under which DTC was set.
- Look for data that has changed or DTC to reset during wiggle test.
- Look for broken, bent, protruded or corroded terminals.
- Inspect airbag components and mounting areas for damage, foreign matter, etc. that will cause incorrect signals.
- Check and clean all wire harness connectors and ground parts related to DTC.
- If multiple trouble codes were set, refer to circuit diagrams to look for any common ground circuit or power supply circuit applied to DTC.
- Refer to any Technical Bulletin that may apply to this malfunction.

2.5 Ground Inspection

Ground points are very important to the proper operation of circuits. Ground points are often exposed to moisture, dirt and other corrosive environments. Corrosion (rust) may increase load resistance. This situation

may change the way in which a circuit operates. Circuits are very sensitive to proper grounding. A loose or corroded ground can seriously affect the control circuit. Check the ground points as follows:

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

2.6 Diagnosis Procedure

Hint:

Use following procedures to troubleshoot the control system.

1	Vehicle brought to workshop
----------	------------------------------------

Next

2	Examine vehicle and check basic items
----------	--

Check system power supply voltage, and check that fuse, wire harness and connector are connected normally.

OK

Standard voltage: Not less than 12 V.

Result

NG

Check and replace malfunctioning parts

OK

3	Using a diagnostic tester, read related DTC and data stream information
----------	--

Result

Result	Go to
No DTC	A
DTC is output	B

A

Perform troubleshooting procedure without DTCs according to malfunction symptom

B

4	Troubleshoot according to DTCs troubleshooting procedure
----------	---

Result

Result	Go to
Problem is not resolved	A
Problem is resolved	B

A

Return to procedure 1 and troubleshoot the process again

B**5**

According to malfunction repair completion inspection and delivery, confirm if malfunction is resolved

Result

Result	Go to
Delivery inspection is failed	A
Delivery inspection is qualified	B

A

Return to procedure 1 and troubleshoot the process again

B**6**

Finished

2.7 Diagnostic Trouble Code (DTC) Chart

DTC	DTC Definition
B1B0101	System Power Supply Voltage Low
B1B0201	System Power Supply Voltage High
B1B0301	Steering Wheel Button Fault
B1B0302	Steering Wheel Power Supply Voltage Abnormal
B1B0202	Speakers Connected Amplifier Failure
B1B0602	Tuner Antenna Abnormal
B1B0403	Amplifier Control Failure
B1B0503	Tuner/DSP Circuit Control Failure
B1B0703	Communication Failure Between MCU and Main Processor
B1B030A	MMI Over Temperature
B1B0129	USB1 Current Above Threshold
B1B0229	USB2 Current Above Threshold

DTC	DTC Definition
B1B0103	Communication Fault with IHU Screen
B1B0203	Communication Fault with IPC Screen
B1B0133	RVC Communication Fault
B1B0143	Communication Fault with AR/DVR Camera
B1B0243	Communication Fault with Face Recognition Camera
B1B0501	WiFi Function Fault
B1B0502	Inertial Navigation Function Fault
B1B0603	MIC Fault
B1B0401	Software Configuration Error
B1B0402	EEPROM Checksum Error
B1B60-16	Power Supply Circuit Voltage Below Threshold
B1B6017	Power Supply Circuit Voltage Above Threshold
U250088	CAN Bus Off
U014087	Lost Communication with BCM
U024587	Lost Communication with IHU
U042281	Invalid Data Received from BCM

2.8 DTC Diagnosis Procedure

DTC	B1B0101	System Power Supply Voltage Low
DTC	B1B0201	System Power Supply Voltage High

DTC	DTC Definition	Possible Causes
B1B0101	System Power Supply Voltage Low	- Fuse - Charging system - Wire harness connector - Domain controller
B1B0201	System Power Supply Voltage High	

■ DTC Confirmation Procedure

- Turn ENGINE START STOP switch to OFF.
- Connect the diagnostic tester (the latest software).
- Start engine and warm it up, and then read DTC again. If DTC is detected, malfunction is current.
- If DTC is not detected, malfunction is intermittent.

Hint:

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

1	Check battery voltage
---	-----------------------

Use circuit diagram as a guide to perform the following inspection procedures:

- (a) Start engine, and use voltage band of multimeter to check if battery voltage is normal. (Rated voltage: Not less than 12 V)

NG

Check or replace charging system or battery

OK

2

Check fuse

- (a) Turn off all electrical equipment and ENGINE START STOP switch.
- (b) Disconnect the negative battery cable.
- (c) Check if fuses RF62 (20A), RF32 (5A), RF41 (5A), MF03 (125A) are normal.

NG

Replace fuse

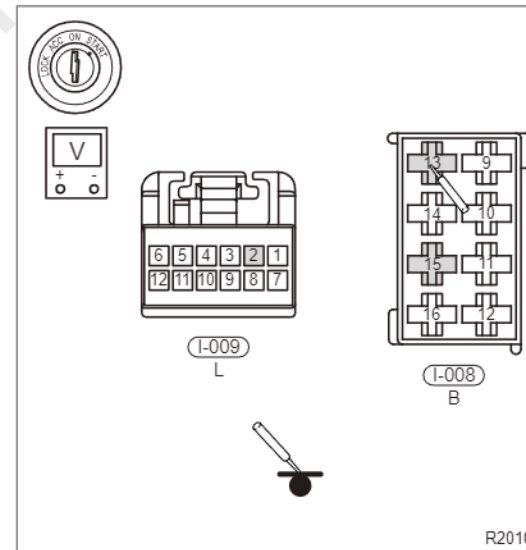
OK

3

Check wire harness and connector

- (a) Turn off all electrical equipment and ENGINE START STOP switch.
- (b) Disconnect the negative battery cable.
- (c) Disconnect the domain controller connectors I-008 and I-009.
- (d) Connect the negative battery cable.
- (e) Turn ENGINE START STOP switch to ON.
- (f) Using a digital multimeter, measure voltage between domain controller connectors I-008 and I-009 and body, and detect it with a 21 W test lamp according to table below.

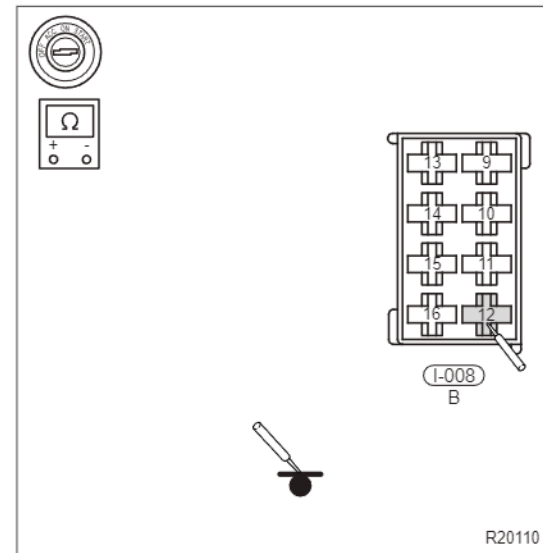
Multimeter Connection	Condition	Specified Condition
I-008 (13) - Body ground	ENGINE START STOP switch "ON"	Not less than 12 V
I-008 (15) - Body ground		Not less than 12 V
I-009 (2) - Body ground		Not less than 12 V



R2010

- (g) Using a digital multimeter, measure ground resistance between domain controller connector I-008 and body according to table below.

Multimeter Connection	Condition	Specified Condition
I-008 (12) - Body ground	Ignition switch OFF	Less than 1 Ω



NG

Repair or replace wire harness or connector

OK

4

Confirm DTCs again

- (a) Connect all the connectors.
 (b) Connect the negative battery cable.
 (c) Use diagnostic tester to clear DTCs.
 (d) Start the engine.
 (e) Check if the same DTCs are still output.

OK

Confirm that system is normal

NG

Replace domain controller

DTC	B1B0202	Speakers Connected Amplifier Failure
DTC	B1B0403	Amplifier Control Failure

DTC	Description	Possible Causes
B1B0202	Speakers Connected Amplifier Failure	- Speaker - Wire harness connector
B1B0403	Amplifier Control Failure	Domain controller

■ DTC Confirmation Procedure

- Turn ENGINE START STOP switch to OFF.
- Connect the diagnostic tester (the latest software).
- Start engine and warm it up, and then read DTC again. If DTC is detected, malfunction is current.
- If DTC is not detected, malfunction is intermittent.

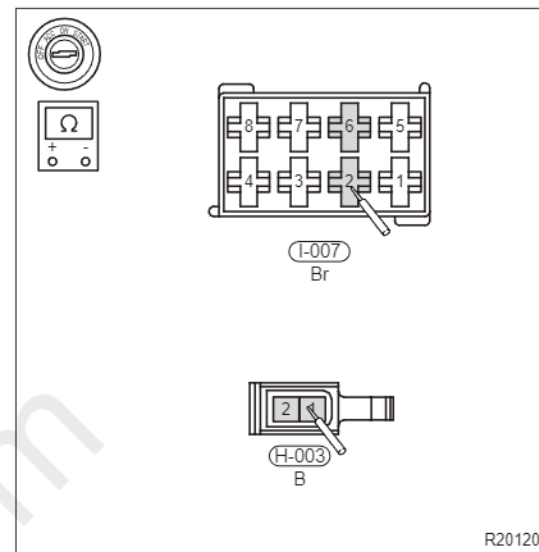
Hint:

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

1 Check horn of vehicle

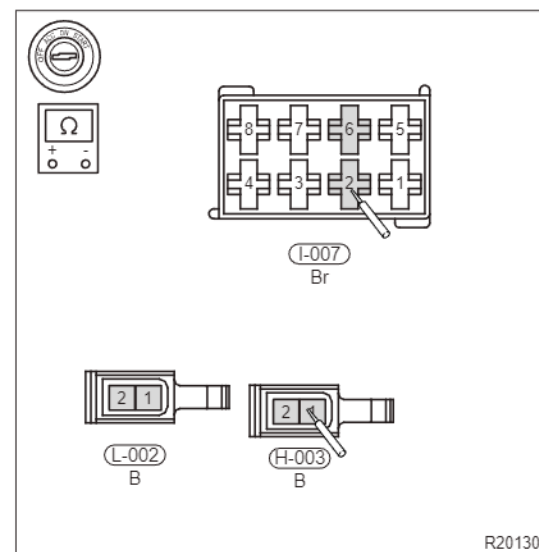
- (a) Play music to check for speakers failing to operate on vehicle.
- (b) Take the front right tweeter failing to operate as an example.
- (c) Turn ignition switch to OFF and disconnect the negative battery cable.
- (d) Disconnect front right tweeter connector H-003 and domain controller connector I-007.
- (e) Check for continuity between front right tweeter connector H-003 and domain controller connector I-007.

Multimeter Connection	Condition	Specified Condition
H-003 (2) - I-007 (6)	Ignition switch OFF	Less than 1 Ω
H-003 (1) - I-007 (2)		



- (f) Take front right tweeter and front right woofer failing to operate as an example.
- (g) Disconnect front right tweeter connector H-003, front right woofer connector H-002 and domain controller connector I-007.
- (h) Check for continuity between front right tweeter connector H-003, front right woofer connector H-002 and domain controller connector I-007.

Multimeter Connection	Condition	Specified Condition
H-003 (2) - I-007 (6)	Ignition switch OFF	Less than 1 Ω
H-003 (1) - I-007 (2)		
H-002 (2) - I-007 (6)		
H-002 (1) - I-007 (2)		

**NG****Repair or replace wire harness****OK****2 Check front right tweeter and woofer**

- (a) Using a replacement method, remove front left tweeter and woofer and install them to the front right position.
- (b) Check if front right tweeter and woofer operate properly.

OK	Replace tweeter and woofer
NG	Replace domain controller

DTC	B1B0602	Tuner Antenna Abnormal
DTC	B1B0503	Tuner/DSP Circuit Control Failure

DTC	DTC Definition	Possible Causes
B1B0602	Tuner Antenna Abnormal	- Tuner antenna - Wire harness connector - Domain controller
B1B0503	Radio/DSP Circuit Control Failure	

■ DTC Confirmation Procedure

- Turn ENGINE START STOP switch to OFF.
- Connect the diagnostic tester (the latest software).
- Start engine and warm it up, and then read DTC again. If DTC is detected, malfunction is current.
- If DTC is not detected, malfunction is intermittent.

Hint:

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

1	Check tuner antenna
---	---------------------

- (a) Turn ENGINE START STOP switch to OFF and disconnect the negative battery cable.
- (b) Remove tuner antenna from malfunctioning vehicle, then install it to a new vehicle and perform a test.

OK	Replace tuner antenna
----	-----------------------

NG

2	Check wire harness connector connected to tuner antenna
---	---

- (a) Turn ENGINE START STOP switch to OFF and disconnect the negative battery cable.
- (b) Disconnect the tuner antenna connectors B-239 and I-032.
- (c) Check for continuity between tuner antenna connectors B-239 and I-032.

Multimeter Connection	Condition	Specified Condition
B-239 (1) - I-032 (1)	Ignition switch OFF	Less than 1 Ω

NG	Repair or replace wire harness connector
----	--

OK

3	Reconfirm DTCs
----------	-----------------------

- (a) Connect all the connectors.
- (b) Connect the negative battery cable.
- (c) Use diagnostic tester to clear DTCs.
- (d) Start the engine.
- (e) Check if the same DTCs are still output.

OK

Confirm that system is normal

NG

Replace domain controller

DTC	B1B0703	Communication Failure Between MCU and Main Processor
DTC	B1B030A	MMI Over Temperature
DTC	B1B0129	USB1 Current Above Threshold
DTC	B1B0229	USB2 Current Above Threshold

DTC	DTC Definition	Possible Causes
B1B0703	Communication Failure Between MCU and Main Processor	Domain controller
B1B030A	MMI Over Temperature	
B1B0129	USB1 Current Above Threshold	
B1B0229	USB2 Current Above Threshold	

■ DTC Confirmation Procedure

- Turn ENGINE START STOP switch to OFF.
- Connect the diagnostic tester (the latest software).
- Start engine and warm it up, and then read DTC again. If DTC is detected, malfunction is current.
- If DTC is not detected, malfunction is intermittent.

Hint:

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

1	Check domain controller
----------	--------------------------------

- (a) Turn ENGINE START STOP switch to OFF and disconnect the negative battery cable.
- (b) Remove domain controller from malfunctioning vehicle, then install it to a new vehicle and perform a test.
- (c) Check for system DTC.

OK

Replace domain controller

NG

System is normal

DTC	B1B0103	Communication Fault with IHU Screen
DTC	B1B0203	Communication Fault with IPC Screen

DTC	DTC Definition	Possible Causes
B1B0103	Communication Fault with IHU Screen	- Wire harness connector - Domain controller
B1B0203	Communication Fault with IPC Screen	

■ DTC Confirmation Procedure

- Turn ENGINE START STOP switch to OFF.
- Connect the diagnostic tester (the latest software).
- Start engine and warm it up, and then read DTC again. If DTC is detected, malfunction is current.
- If DTC is not detected, malfunction is intermittent.

Hint:

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

1	Power off test
---	-----------------------

- (a) Turn ENGINE START STOP switch to OFF and disconnect the negative battery cable.
- (b) Wait for 2 minutes, and then connect the negative battery cable, turn ignition switch to ON to check if the fault occurs again.

OK	System is normal
----	-------------------------

NG

2	Check dual-screen and connecting wire harness between dual-screen and domain controller
---	--

- (a) Turn ENGINE START STOP switch to OFF and disconnect the negative battery cable.
- (b) Remove dual-screen and connecting wire harness between dual-screen and domain controller from malfunctioning vehicle, then install them to a new vehicle and perform a test.

OK	Repair or replace dual-screen and connecting wire harness
----	--

NG

3	Confirm DTCs again
---	---------------------------

- (a) Connect all the connectors.
- (b) Connect the negative battery cable.
- (c) Use diagnostic tester to clear DTCs.
- (d) Start the engine.
- (e) Check if the same DTCs are still output.

OK	Confirm that system is normal
----	--------------------------------------

NG	Replace domain controller
----	----------------------------------

DTC	B1B0243	Communication Fault with Face Recognition Camera
-----	---------	--

DTC	DTC Definition	Possible Causes
B1B0243	Communication Fault with Face Recognition Camera	• Face recognition camera • Wire harness connector • Domain controller

■ DTC Confirmation Procedure

- Turn ENGINE START STOP switch to OFF.
- Connect the diagnostic tester (the latest software).
- Start engine and warm it up, and then read DTC again. If DTC is detected, malfunction is current.
- If DTC is not detected, malfunction is intermittent.

Hint:

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

1 Power off test

- (a) Turn ENGINE START STOP switch to OFF and disconnect the negative battery cable.
- (b) Wait for 2 minutes, and then connect the negative battery cable, turn ignition switch to ON to check if the fault occurs again.

OK

System is normal

NG

2 Check face recognition camera

- (a) Turn ENGINE START STOP switch to OFF and disconnect the negative battery cable.
- (b) Remove face recognition camera from malfunctioning vehicle, then install it to a new vehicle and perform a test.

OK

Replace face recognition camera

NG

3 Check domain controller

- (a) Turn ENGINE START STOP switch to OFF and disconnect the negative battery cable.
- (b) Remove domain controller from malfunctioning vehicle, then install it to a new vehicle and perform a test.

OK

Replace domain controller

NG

4 Confirm DTCs again

- (a) Connect all the connectors.
- (b) Connect the negative battery cable.
- (c) Use diagnostic tester to clear DTCs.
- (d) Start the engine.
- (e) Check if the same DTCs are still output.

OK	Confirm that system is normal
NG	Replace or repair instrument panel wire harness

DTC	B1B0401	Software Configuration Error
------------	----------------	-------------------------------------

DTC	Description	Possible Causes
B1B0401	Software Configuration Error	Software is not configured

Hint:

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

1	Reconfigure it
----------	-----------------------

DTC	B1B0501	WiFi Function Fault
DTC	B1B0502	Inertial Navigation Function Fault
DTC	B1B0603	MIC Fault

DTC	Description	Possible Causes
B1B0501	WiFi Function Fault	Audio head unit fault
B1B0502	Inertial Navigation Function Fault	
B1B0603	MIC Fault	

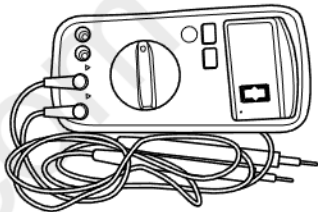
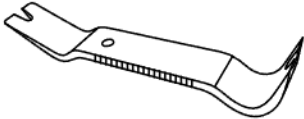
Hint:

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

1	Replace audio head unit assembly
----------	---

3 ON-VEHICLE SERVICE

3.1 Tools

Tool Name	Tool Drawing
X-431 PAD Diagnostic Tester	 RCH0001006
Digital Multimeter	 RCH000206
Interior Crow Plate	 RCH002506

3.2 Domain Controller

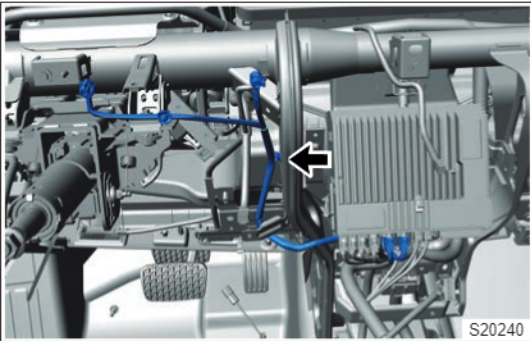
■ Removal

Hint:

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

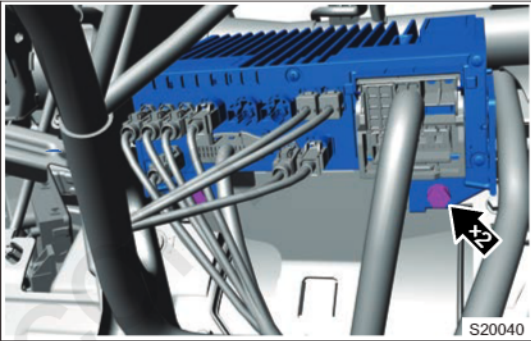
- (1) Turn off all electrical equipment and ENGINE START STOP switch.
- (2) Disconnect the negative battery cable.
- (3) Remove the instrument panel assembly.

- (4) Disconnect connecting wire harness from domain controller display.



- (5) Disconnect domain controller connector, and remove 2 fixing bolts from domain controller.

Tightening torque
 $5 \pm 1 \text{ N}\cdot\text{m}$



■ Installation

Caution

- Tighten fixing bolts to specified torque, when installing domain controller.
- Connect connectors in place, when installing domain controller.
- Check audio system for proper operation, after installing domain controller.

- (1) Installation is in the reverse order of removal.

3.3 Front Left Tweeter

■ Removal

Hint:
Use same procedures for right and left sides (take left side as an example).

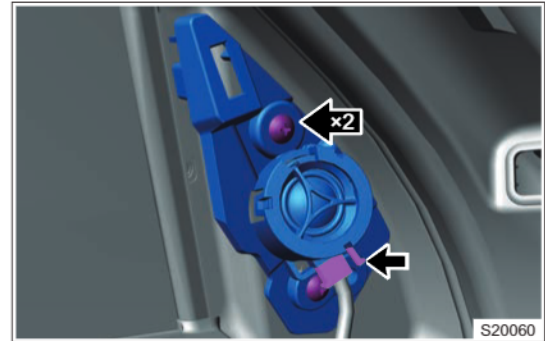
Caution

- Be sure to wear safety equipment to prevent accidents, when removing front left tweeter.
- Appropriate force should be applied when removing front left tweeter. Be careful not to operate roughly.

- (1) Turn off all electrical equipment and ENGINE START STOP switch.
- (2) Disconnect the negative battery cable.
- (3) Remove the front left door protector assembly.

- (4) Disconnect connector from front left tweeter, remove 2 fixing screws from front left tweeter, detach clip from front left tweeter to remove tweeter.

Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



■ Installation

Caution

- Be sure to tighten fixing bolts to specified torque, when installing front left tweeter.
- Check front left tweeter for proper operation, after installing front left tweeter.

- (1) Installation is in the reverse order of removal.

3.4 Front Left Woofer

■ Removal

Hint:

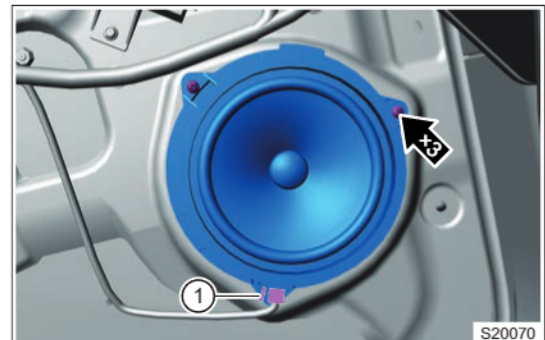
Use same procedures for right and left sides (take left side as an example).

Caution

- Be sure to wear safety equipment to prevent accidents, when removing front left woofer.
- Appropriate force should be applied when removing front left woofer. Be careful not to operate roughly.

- (1) Turn off all electrical equipment and ENGINE START STOP switch.
- (2) Disconnect the negative battery cable.
- (3) Remove the front left door protector.
- (4) Disconnect front left woofer (1), remove 3 fixing screws from front left tweeter, and remove front left woofer.

Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



■ Installation

Caution

- Be sure to tighten fixing bolts to specified torque, when installing front left woofer.
- Check front left woofer for proper operation, after installing front left woofer.

- (1) Installation is in the reverse order of removal.

3.5 Rear Left Tweeter

■ Removal

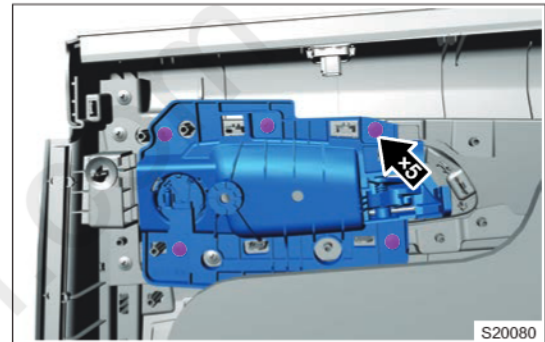
Hint:

Use same procedures for right and left sides (take left side as an example).

Caution

- **Be sure to wear safety equipment to prevent accidents, when removing rear left tweeter.**
- **Appropriate force should be applied when removing rear left tweeter. Be careful not to operate roughly.**

- (1) Turn off all electrical equipment and ENGINE START STOP switch.
- (2) Disconnect the negative battery cable.
- (3) Remove the rear left door inner trim panel assembly.
- (4) Remove 5 fixing screws of rear left door inside handle assembly from rear left door protector and detach 3 fixing clips from rear left tweeter to remove tweeter.



■ Installation

Caution

- **Be sure to tighten fixing bolts to specified torque, when installing rear left tweeter.**
- **Check rear left tweeter for proper operation, after installing rear left tweeter.**

- (1) Installation is in the reverse order of removal.

3.6 Rear Left Woofer

■ Removal

Hint:

Use same procedures for right and left sides (take left side as an example).

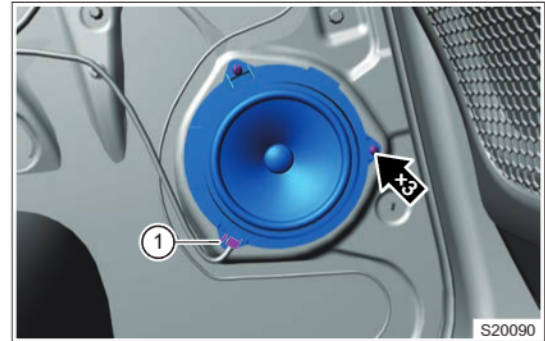
Caution

- **Be sure to wear safety equipment to prevent accidents, when removing rear left woofer.**
- **Appropriate force should be applied when removing rear left woofer. Be careful not to operate roughly.**

- (1) Turn off all electrical equipment and ENGINE START STOP switch.
- (2) Disconnect the negative battery cable.
- (3) Remove the rear left door protector assembly.

- (4) Disconnect rear left woofer connector (1), remove 3 fixing screws and rear left woofer.

Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



■ Installation

Caution

- Be sure to tighten fixing bolts to specified torque, when installing rear left woofer.
- Check rear left tweeter for proper operation, after installing rear left woofer.

(1) Installation is in the reverse order of removal.

3.7 Face Recognition Camera

■ Removal

Caution

- Be sure to wear necessary safety equipment to prevent accidents, when removing face recognition camera.
- Appropriate force should be applied when removing face recognition camera. Be careful not to operate roughly.

- (1) Turn off all electrical equipment and ENGINE START STOP switch.
- (2) Disconnect the negative battery cable.
- (3) Remove the left A-pillar upper protector assembly.
- (4) Remove face recognition camera from left A-pillar upper protector.

■ Installation

Caution

Tighten fixing screws to specified torque, when installing face recognition camera.

(1) Installation is in the reverse order of removal.

3.8 Combined Antenna

■ Removal

Hint:

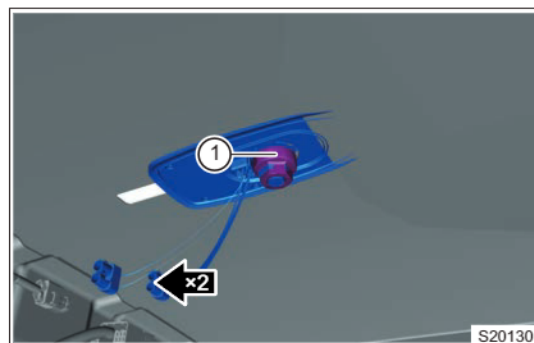
- Be sure to wear safety equipment to prevent accidents, when removing combined antenna.
- Appropriate force should be applied when removing combined antenna. Be careful not to operate roughly.

- (1) Turn off all electrical equipment and ENGINE START STOP switch.
- (2) Disconnect the negative battery cable.
- (3) Remove the rear part of interior ceiling.

- (4) Disconnect combined antenna connector, and remove fixing nut (1) from combined antenna.

Tightening torque

$5 \pm 1 \text{ N}\cdot\text{m}$



■ **Installation**

- (1) Installation is in the reverse order of removal.