AUDIO/VISUAL SYSTEM

GENERAL INFORMATION

System Overview

Description

1	Steering Wheel Quick Button	2	Hyperscreen
3	Domain Controller	4	Front Right Tweeter
5	Front Right Woofer	6	Front Left Tweeter
7	Rear Right Tweeter	8	Rear Left Tweeter
9	Rear Right Woofer	10	Front Left Woofer
11	Rear Left Woofer		

Audio system mainly consists of no disc DVD/audio head unit (if equipped), speakers and antenna. No disc DVD mainly consists of no disc DVD head unit, center control panel, multi-function interface.

Inspection

Hint:
If some functions of system are found failure before repairing, please read the instruction carefully, and then check the table below, which will help you to clear DTC.

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
	Navigation volume cannot be adjusted	Stop vehicle, and adjust navigation volume on navigation screen or volume setting screen
	Head unit screen cannot be operated	In some states, operations on 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 [SET] button to restore factory setting in the system setting
	Some functions in air conditioning 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
	Available station cannot be searched by automatic station searching	When there are several 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 can not support all formats files. There are many audio and video formats

Current Status	Symptom	Possible Cause and Solution
		nowadays. Even file formats supported by audio video descriptions may not be supported due to the different encoding formats. Please refer to audio and video descriptions, download supported formats and try
	Volume fluctuates up and down during playback	Volume fluctuates up and down during playback, as 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 can not 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 can not support all of them. Please try another USB.
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 in dome light position, so if noise is unavoidable, say command out as close to the microphone as possible

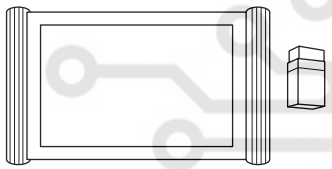
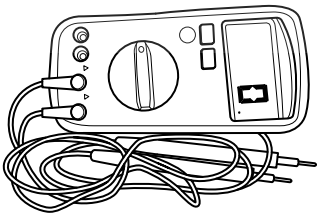
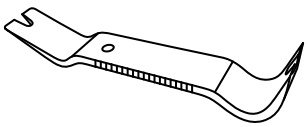
Torque

Torque Specifications

Description	Torque (N·m)
No Disc DVD/Audio Head Unit Fixing Screw	5 ± 1
Audio Head Unit Display Fixing Screw	1.5 ± 0.5
Front Speaker Fixing Screw	2 ± 0.5
Rear Speaker Fixing Screw	2 ± 0.5
Front Speaker Fixing Screw	2 ± 0.5
Combined Antenna Fixing Screw	5 ± 1

Tools

General Tool

Tool Name	Tool Drawing
X-431 PAD Diagnostic Tester	 RCH0001006
Digital Multimeter	 RCH0002006
Interior Crow Plate	 RCH002506

DIAGNOSIS & TESTING

Diagnosis Contents

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
Noise occurs	Noise source (interference)
	Tweeter assembly
	Instrument cluster
No disc DVD/audio head unit assembly does not operate	Center control panel (malfunction)
	No disc DVD/audio head unit fuse (blown)
	No disc DVD/audio head unit (malfunction)
	Wire harness and connector (malfunction)
No sound can be heard from speakers	System setting (incorrect)
	Speaker assembly
	Center control panel
	Wire harness and connector
Radio broadcast signal cannot be received(poor reception)	Center control panel (malfunction)
	No disc DVD/audio head unit (malfunction)
	Options (interference)
	Combined antenna (malfunction)
	Wire harness and connector

Hint:
If malfunction still cannot be eliminated, please drive vehicle to Chery Automobile authorized after-sales service center or 4S shop for inspection and repair. Do not remove head unit without authorization and repair it by yourself.

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.

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 wiggling 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.

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.

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 occurs	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**

6	**Finished**

Diagnostic Trouble Code (DTC) Chart

DTC	DTC Definition
B1800-16	Power Supply Voltage Failure
B1800-17	Power Supply Voltage Failure
B1811-00	Steering Wheel Button Fault
B1812-00	Speed Signal Abnormal
B1813-00	Speakers Connected to Amplifier Failure
B1814-00	Tuner Antenna Abnormal
B1830-04	Amplifier R/W Failure
B1832-04	Tuner IC R/W Failure
B1835-04	Communication Failure Between MCU and Main Processor
B1836-04	TBOX Connection ON/OFF Fault
B1840-4B	MMI Over Temperature
B1841-19	USB1 Current Above Threshold
B1842-19	USB2 Current Above Threshold
B1847-04	Connecting Fault with Audio Display
B1848-04	Connecting Fault with Instrument Cluster Display
B1849-04	Connecting Fault with SD-SDI Reversing View Monitor
B184A-04	Connecting Fault with Drive Recorder
B184B-04	Communication Fault with Face Recognition Camera
B184C-04	Microphone Fault
U1007-88	Control Module BD CAN Communication Bus Off BD CAN Busoff
U0073-88	Control Module IFT CAN Communication Bus Off IFT CAN Busoff
U0140-87	Lost Communication with BCM
U0214-87	Lost Communication with Passive Entry Passive Start (PEPS)
U0164-87	Lost Communication with A/C Control Unit
U0141-87	Lost Communication with Reversing Radar

DTC	DTC Definition
U0142-87	Lost Communication with Around View Monitor Module
U0230-87	Lost Communication with PLG
U0100-87	Lost Communication with Engine Control System Module
U0129-87	Lost Communication With Brake System Control Module
U0101-87	Lost Communication with TCU
U0151-87	Lost Communication with Airbag Control Unit
U1157-87	Lost Communication with Blind Spot Detection
U0131-87	Lost Communication with Electronic Power Steering Module
U1162-87	Lost Communication with Front Camera Module
U1163-87	Lost Communicate with Front Radar
U1193-87	Lost Communication with Electric Shifting Controller
U1189-87	Lost Communication with MFS
U0126-87	Lost Communication with SAM
U1194 -87	Lost Communication with Wireless Charging Module
U1160 - 87	Lost Communication with Auto A/C Panel
U0208-87	Lost Communication with Seat Module Controller
U0193-87	Lost Communication with Audio Control Panel Controller
U1300-55	Software Configuration Error

DTC Diagnosis Procedure

DTC	B1800-16	Power Supply Voltage Failure
DTC	B1800-17	Power Supply Voltage Failure

DTC	DTC Definition	Possible Causes
B1800-16	Power Supply Voltage Failure	• Fuse • Charging system • Wire harness connector • Domain controller
B1800-17	Power Supply Voltage 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 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 RF04 (15A), RF01 (10A) and RF26 (10A) are normal.

NG → **Replace fuse**

OK

3	**Check wire harness and connector**

(a) Turn off all electrical equipment and ENGINE START STOP switch.

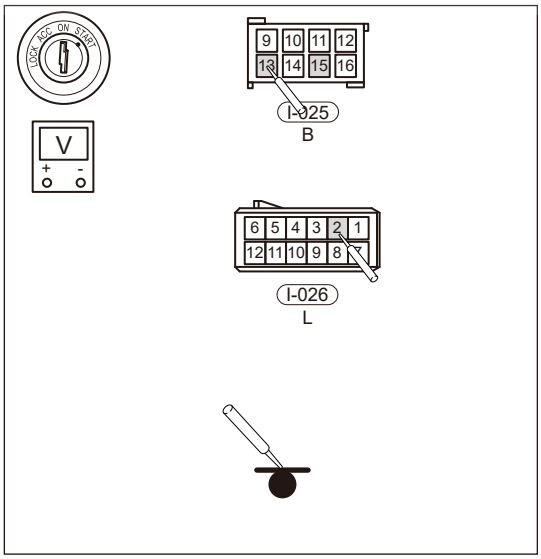
(b) Disconnect the negative battery cable.

(c) Disconnect connectors I-025 and I-026.

(d) Connect the negative battery cable.

(e) Turn ENGINE START STOP switch to ON.

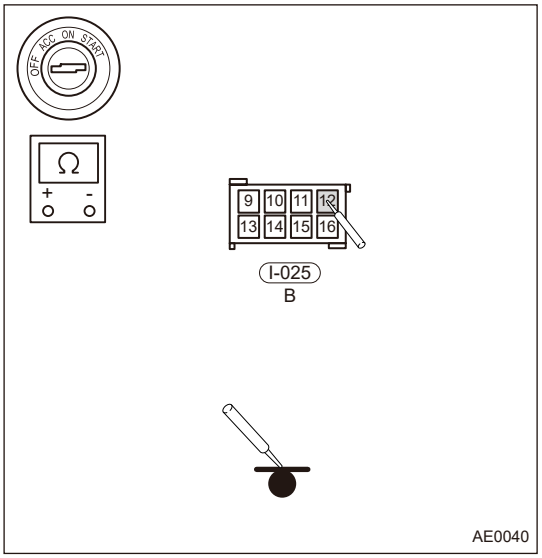
(f) Using a digital multimeter, measure voltage between controller connectors I-025 and I-026 and body, and detect it with a 21 W test lamp according to table below.



Multimeter Connection	Condition	Specified Condition
I-025 (B13) - Body ground	ENGINE START STOP switch "ON"	Not less than 12 V
I-025 (B15) - Body ground		Not less than 12 V
I-026 (C2) - Body ground		Not less than 12 V

(g) Using a digital multimeter, measure resistance between controller connector I-025 and body ground according to table below.

Multimeter Connection	Condition	Specified Condition
I-025 (B12) - 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	B1813-00	Speakers Connected to Amplifier Failure
DTC	B1830-04	Amplifier R/W Failure

DTC	Description	Possible Causes
B1813-00	Speakers Connected to Amplifier Failure	• Speaker • Wire harness connector • Domain controller
B1830-04	Amplifier R/W Failure	

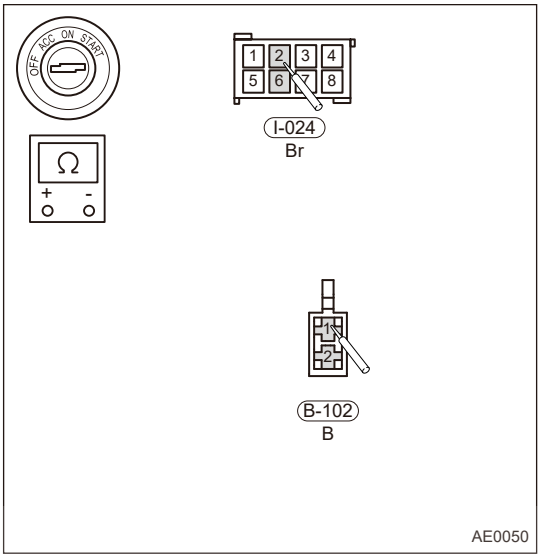
DTC Confirmation Procedure

- 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.

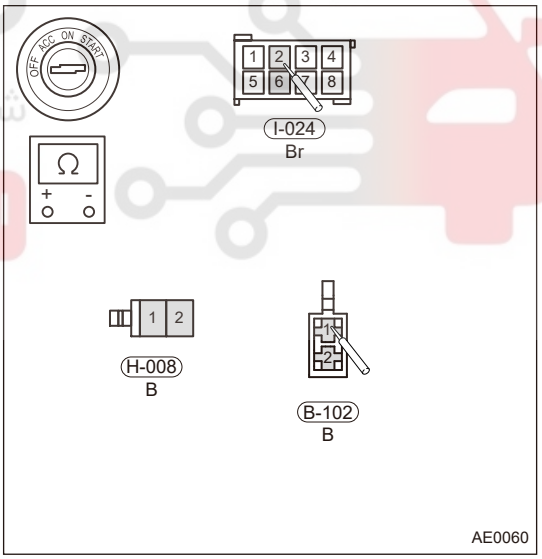
1	Check horn of vehicle

(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 B-102 and controller connector I-024.
(e) Check for continuity between front right tweeter connector B-012 and controller connector I-024.



Multimeter Connection	Condition	Specified Condition
B-102 (2) - I-024 (A6)	Ignition switch OFF	Less than 1 Ω
B-102 (1) - I-024 (A2)		

(f) Take front right tweeter and front right woofer failing to operate as an example.
(g) Disconnect front right tweeter connector B-102, front right woofer connector H-008 and controller connector I-024.
(h) Check for continuity between front right tweeter connector B-102, front right woofer connector H-008 and controller connector I-024.



Multimeter Connection	Condition	Specified Condition
B-102 (2) - I-024 (A6)	Ignition switch OFF	Less than 1 Ω
B-102 (1) - I-024 (A2)		
H-008 (2) - I-024 (A6)		
H-008 (1) - I-024 (A2)		

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	B1836-04	TBOX Connection ON/OFF Fault

DTC	DTC Definition	Possible Causes
B1836-04	TBOX Connection ON/ OFF Fault	• TBOX Module • 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 TBOX module and connecting wire harness between TBOX and domain controller**

(a) Turn ENGINE START STOP switch to OFF and disconnect the negative battery cable.

(b) Remove TBOX module and connecting wire harness between TBOX and domain controller from malfunctioning vehicle, then install it to a new vehicle and perform a test.

NG	**Repair or replace TBOX module and wire harness.**

OK

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	**B1847-04**	**Connecting Fault with Audio Display**
DTC	**B1848-04**	**Connecting Fault with Instrument Cluster Display**

DTC	DTC Definition	Possible Causes
B1847-04	Connecting Fault with Audio Display	• Hyperscreen • Wire harness connector • Domain controller
B1848-04	Connecting Fault with Instrument Cluster Display	

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 hyperscreen and connecting wire harness between hyperscreen and domain controller**

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

NG → **Repair or replace hyperscreen and connecting wire harness.**

OK

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	B1849-04	Connecting Fault with SD-SDI Reversing View Monitor

DTC	DTC Definition	Possible Causes
B1849-04	Connecting Fault with SD-SDI Reversing View Monitor	• Rear 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 rear camera

(a) Turn ENGINE START STOP switch to OFF and disconnect the negative battery cable.

(b) Remove rear camera from malfunctioning vehicle, then install it to a new vehicle and perform a test.

NG → **Repair or replace rear camera**

OK

3	Check wire harness connector

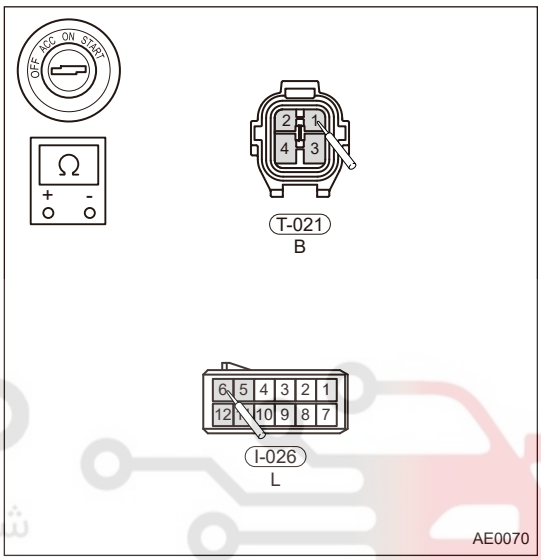
(a) Disconnect the negative battery cable.

(b) Disconnect the rear camera connector T-021.

(c) Disconnect the domain controller connector I-026.

(d) Check for continuity between rear camera connector T-021 and domain controller connector I-026.

Multimeter Connection	Condition	Specified Condition
T-021 (1) - I-026 (C6)	ENGINE START STOP switch "OFF"	Less than 1 Ω
T-021 (2) - I-026 (C12)		
T-021 (3) - I-026 (C5)		
T-021 (4) - I-026 (C11)		



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	B184B-04	Communication Fault with Face Recognition Camera

DTC	DTC Definition	Possible Causes
B184B-04	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.

NG → **Replace face recognition camera**

OK

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.

NG → **Replace domain controller**

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 or repair instrument panel wire harness**

DTC	B184C-04	Microphone Fault

DTC	DTC Definition	Possible Causes
B184C-04	Microphone Fault	• Microphone 2 • 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	**Check microphone**

(a) Turn ENGINE START STOP switch to OFF and disconnect the negative battery cable.
(b) Remove microphone 2 from malfunctioning vehicle then install it to a new vehicle and perform a test.

NG	**Replace microphone 2**

OK

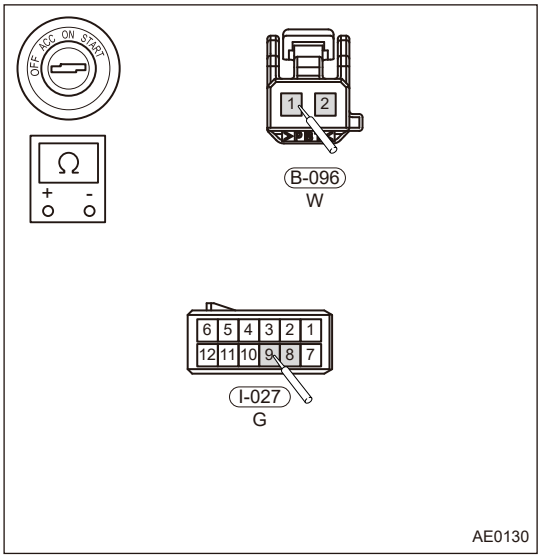
2	**Check wire harness connector between domain controller and microphone 2**

(a) Turn ENGINE START STOP switch to OFF and disconnect the negative battery cable.

(b) Disconnect microphone 2 connector B-096 and instrument cluster wire harness domain controller connector I-027.

(c) Check for continuity between microphone 2 connector B-096 and domain controller connector I-027.

Multimeter Connection	Condition	Resistance
B-096 (1) - I-027 (D9)	ENGINE START STOP switch "OFF"	< 1 Ω
B-096 (2) - I-027 (D8)		



NG → **Repair or replace wire harness or connector.**

OK →

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	B1835-04	Communication Failure Between MCU and Main Processor
DTC	B1840-4B	MMI Over Temperature
DTC	B1841-19	USB1 Current Above Threshold
DTC	B1842-19	USB2 Current Above Threshold

DTC	Description	Possible Causes
B1835-04	Communication Failure Between MCU and Main Processor	Domain controller
B1840-4B	MMI Over Temperature	
B1841-19	USB1 Current Above Threshold	
B1842-19	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	**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	**System is normal**
NG	**Replace domain controller**

DTC	**U0140-87**	**Lost Communication with BCM**
DTC	**U0214-87**	**Lost Communication with Passive Entry Passive Start (PEPS)**
DTC	**U0164-87**	**Lost Communication with A/C Control Unit**
DTC	**U0141-87**	**Lost Communication with Reversing Radar**
DTC	**U0142-87**	**Lost Communication with Around View Monitor Module**
DTC	**U0230-87**	**Lost Communication with PLG**
DTC	**U0100-87**	**Lost Communication with Engine Control System Module**
DTC	**U0129-87**	**Lost Communication With Brake System Control Module**
DTC	**U0101-87**	**Lost Communication with TCU**
DTC	**U0151-87**	**Lost Communication with Airbag Control Unit**
DTC	**U1157-87**	**Lost Communication with Blind Spot Detection**
DTC	**U0131-87**	**Lost Communication with Electronic Power Steering Module**
DTC	**U1162-87**	**Lost Communication with Front Camera Module**
DTC	**U1163-87**	**Lost Communicate with Front Radar**
DTC	**U1193-87**	**Lost Communication with Electric Shifting Controller**
DTC	**U1189-87**	**Lost Communication with MFS**
DTC	**U0126-87**	**Lost Communication with SAM**
DTC	**U1194 -87**	**Lost Communication with Wireless Charging Module**
DTC	**U1160 - 87**	**Lost Communication with Auto A/C Panel**

DTC	**U0208-87**	**Lost Communication with Seat Module Controller**
DTC	**U0193-87**	**Lost Communication with Audio Control Panel Controller**

DTC Confirmation Procedure
Refer to CAN communication system

ON-VEHICLE SERVICE

Domain Controller

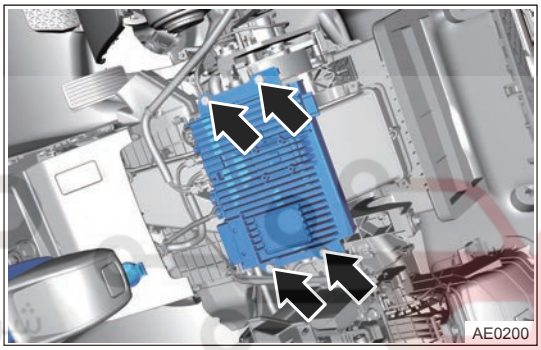
Removal

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. Remove 4 fixing bolts from domain controller.

   Tightening Torque
   5 ± 1 N m



5. Disconnect domain controller connector, and remove domain controller.

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.

Front Left Tweeter

Removal

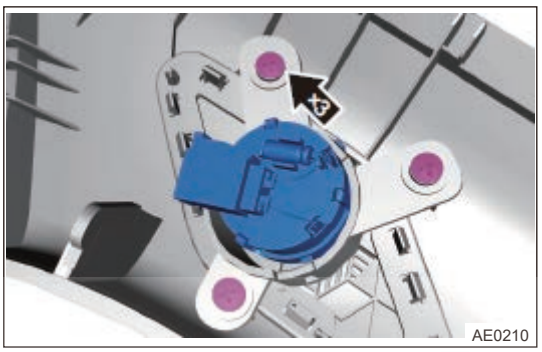
Hint:
Use same procedures for right and left sides (take left side as an example).

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 left A-pillar upper protector.
4. Remove 3 fixing screws and front left woofer.

   Tightening Torque
   1.5 ± 0.5 N·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.

Front Left Woofer

Removal

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

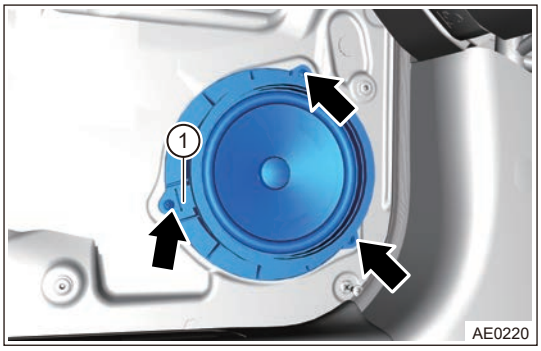
CAUTION

- 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 woofer, and remove front left woofer.

   Tightening Torque
   1.5 ± 0.5 N·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.

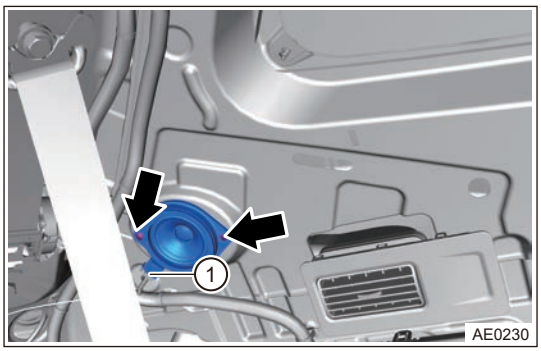
Rear Left Tweeter

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. Disconnect rear left tweeter connector (1), remove 2 fixing screws from rear left tweeter to remove rear left 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.

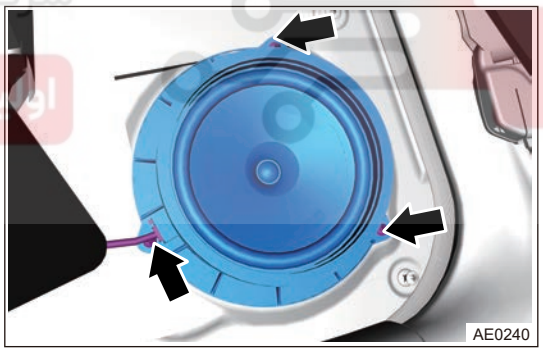
Rear Left Woofer

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 from rear left woofer to remove rear left woofer.
   Tightening Torque
   1.5 ± 0.5 N·m



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.

Combined Antenna

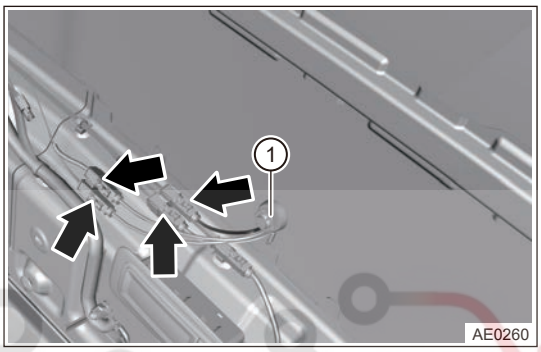
Removal

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 ± 1 N·m



Installation

1. Installation is in the reverse order of removal.