

3. Navigation System

A: WIRING DIAGRAM

Refer to “Navigation System” in the wiring diagram. <Ref. to WI-167, WIRING DIAGRAM, Navigation System.>

B: INSPECTION

NOTE:

If no problems are found in “CHECK NAVIGATION OPERATION”, “CHECK EACH CONNECTION” and “CHECK EACH VEHICLE SIGNAL” as described below, check the navigation system circuit. <Ref. to WI-167, WIRING DIAGRAM, Navigation System.>

1. CHECK NAVIGATION OPERATION

Start the engine and check that the opening screen is displayed.

Standard: Opening screen is displayed.

OK: Normal.

NG: If the screen is not displayed, check the following items.

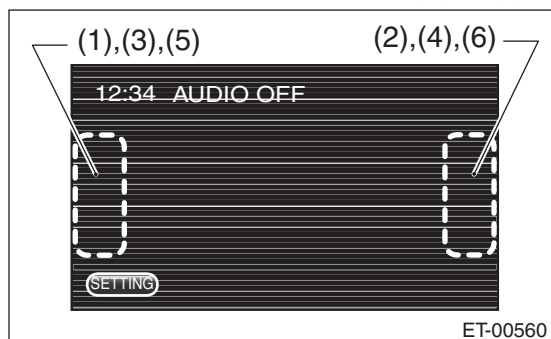
- The map disk (DVD-ROM) is set in the navigation system unit
- Check the connection of the power supply connector at the backside of the navigation unit. If wire connection is correct or has got repaired, check again that the opening screen is displayed.

If it is not displayed at this time, it indicates the navigation unit trouble.

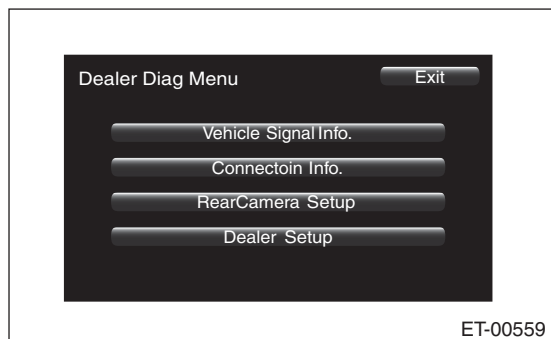
2. CHECK EACH CONNECTION

1) Press the «Audio» key to display the AUDIO OFF screen.

2) Touch the screen in the order of (1) to (6) shown in the figure.



3) The display will switch to the Dealer Diag Menu screen.



• CHECK MICROPHONE, AUX AND REARVIEW CAMERA

NOTE:

Before starting inspections, check the safety around the rear end of the vehicle and then turn the ignition switch to ON.

- 1) Touch {Connection Info.} on the «Dealer Diag Menu» screen.
- 2) Check that “Connect” is displayed in all the MIC, AUX and Camera items.

NOTE:

{AUX} item is not displayed, if the suitable mini jack is not inserted in the AUX terminal in the console box.

Connect: Normal.

NC: Abnormal. Check the signal line connection. If there are no problems, the unit could be faulty.

• CHECK GPS ANTENNA

NOTE:

When checking the GPS antenna, perform the check operation outdoors to improve the receiver sensitivity.

- 1) Touch {Vehicle Signal Info.} on the «Dealer Diag Menu» screen.
- 2) Check that “Connect” is displayed in the GPS Antenna item.

Connect: Normal.

NC: Abnormal. Check the GPS antenna connection.

• CHECK UART COMMUNICATION

NOTE:

When checking the GPS antenna, perform the check operation outdoors to improve the receiver sensitivity.

- 1) Touch {Vehicle Signal Info.} on the «Dealer Diag Menu» screen.
- 2) Check that “ON” is displayed in the UART signal item.

OK: Normal.

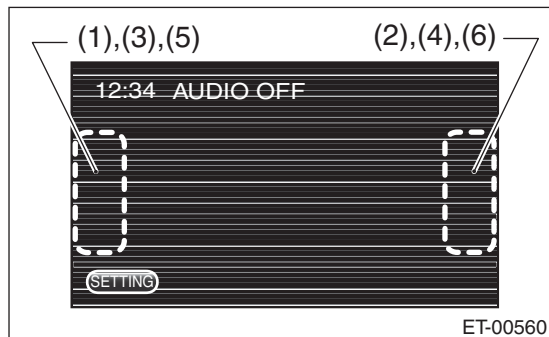
NG: Abnormal. Check the signal line connection. If there are no problems, the unit could be faulty.

NOTE:

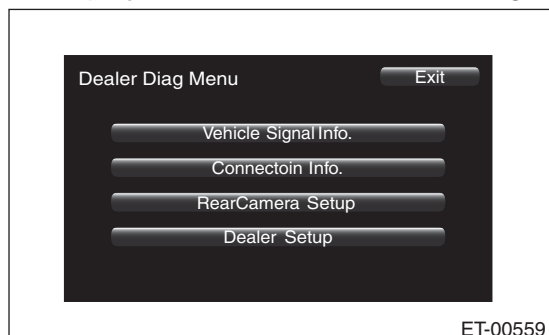
If the UART signal line connector is not connected, the marker line is not displayed when the rearview camera image is displayed.

3. CHECK EACH VEHICLE SIGNAL

- 1) Press the «Audio» key to display the AUDIO OFF screen.
- 2) Touch the screen in the order of (1) to (6) shown in the figure.



- 3) The display will switch to the Dealer Diag Menu screen.



• CHECK BACK SENSOR

- 1) Touch {Vehicle Signal Info.} on the «Dealer Diag Menu» screen.
- 2) Pull the parking brake and depress the brake pedal, then put the gear in reverse.
- 3) Make sure that “ON” is displayed in the Reverse item.

ON: Normal.

OFF: Abnormal. Check the signal line connection. If there are no problems, the unit could be faulty.

• CHECK IGNITION SWITCH

- 1) Touch {Vehicle Signal Info.} on the «Dealer Diag Menu» screen.
- 2) Make sure that “ON” lights in the IGN item and then the screen becomes dim.

ON: Normal.

OFF: Abnormal. Check the signal line connector. If there are no problems, the unit could be faulty.

• CHECK SPEED SENSOR

NOTE:

- Before starting inspections, check the safety around the vehicle.
- Lift up the vehicle as necessary.
- When the diagnostic trouble code is input in the VDC CM, perform the clear memory operation.

- 1) Touch {Vehicle Signal Info.} on the «Dealer Diag Menu» screen.
- 2) Move the vehicle 2 to 3 meters (6.6 to 9.8 ft).
- 3) Check that “ON” is displayed in the Speed item.

ON: Normal.

OFF: Abnormal. Check the signal line connection. If there are no problems, the unit could be faulty.

• CHECK PARKING BRAKE

- 1) Touch {Vehicle Signal Info.} on the «Dealer Diag Menu» screen.
- 2) Check the safety around the vehicle and depress the brake pedal.
- 3) Release the parking brake.
- 4) Apply the parking brake.
- 5) Check that “ON” is displayed in the Parking item.

ON: Normal.

OFF: Abnormal. Check the signal line connection. If there are no problems, the unit could be faulty.

4. CHECK DVD-ROM

Insert a DVD-ROM (region code 1) into the navigation unit and play it, and the screen switches to the image from DVD.

NOTE:

Region code 1 is the code for DVD-ROM designated for United States of America and Territories of the United States, Canada, Bermuda islands. DVD-ROMs of different region code cannot be played.

Standard: DVD images are displayed.

OK: Normal.

NG: If DVD images are not displayed, check the following points. If no problems are found, the navigation unit is faulty.

- Is a DVD-ROM set in the navigation unit?
- Is the DVD-ROM set in the unit properly?
- Is a correct type of DVD (DVD-VIDEO only) used?
- Is the playing side dirty or damaged?

NOTE:

- DVD images cannot be displayed while driving or the parking brake is not applied.
- The rear entertainment system cannot play MP3 files and DVD-Audio.

5. MESSAGE LIST

Message	Cause	Action
CHECK DISC	A nonconforming or unsupported disk or a disk with no data recorded is used, or the disk cannot be read due to damage, dirt, etc.	<ol style="list-style-type: none"> 1. Is the playing side of the disk dirty or damaged? Check whether the disk conforming to the standard is used or the disk is set properly in the unit. 2. Check whether the disk is a playable data format.
REGION CODE ERROR	DVD region code mismatch.	Use a DVD with region code 1 displayed. (United States of America and Territories of the United States, Canada, Bermuda islands = Region code 1)
PARENTAL ERROR	Cannot play due to parental level setting.	Change the parental level set in the navigation unit.
PUSH EJECT	An error (including a high temperature error) occurred in the disk playback mechanism in the navigation unit while playing a CD (CDDA, MP3 or WMA).	<ol style="list-style-type: none"> 1. Eject the CD and then insert again. 2. Turn the ignition switch to OFF and leave the device until the temperature lowers enough. If the message still appears after the step 1. above is performed, the unit could be faulty. 3. Turn the ignition switch to ACC/ON again and start DVD. 4. If the message still appears after the above-mentioned step is performed, the unit could be faulty.
PUSH EJECT	An error occurred in the disk playback mechanism in the navigation unit while playing a DVD.	<ol style="list-style-type: none"> 1. Eject the DVD and then insert again. 2. Turn the ignition switch to OFF and leave the device until the temperature lowers enough. If the message still appears after the step 1. above is performed, the unit could be faulty. 3. Turn the ignition switch to ACC/ON again and start DVD. 4. If the message still appears after the above-mentioned step is performed, the unit could be faulty.

C: NOTE

For operation procedures of each component of the navigation system, refer to the respective section.

- Navigation unit <Ref. to ET-33, Navigation Body.>
- GPS antenna <Ref. to ET-35, GPS Antenna.>