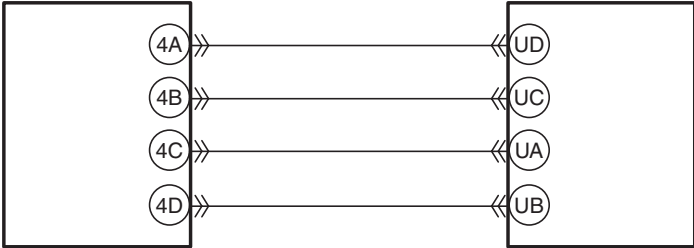
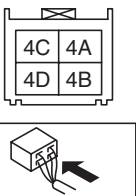

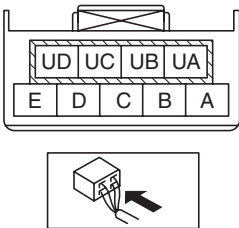


Note

- “iPod” is a registered trademark of Apple Inc. in the United States and other countries.

Audio unit (with color LCD)

Description	Audio unit internal malfunction, or iPod malfunction
Detection condition	When iPod is connected, audio unit read error is detected
Fail-safe function	Not applicable
Possible cause	<ul style="list-style-type: none"> • USB device/iPod malfunction • Incompatible USB device (format) used • Audio unit connector or terminal malfunction • Auxiliary jack/USB port connector or terminal malfunction • Open circuit in wiring harness between the following terminals: <ul style="list-style-type: none"> — Audio unit terminal 4A and auxiliary jack/USB port terminal UD — Audio unit terminal 4B and auxiliary jack/USB port terminal UC — Audio unit terminal 4C and auxiliary jack/USB port terminal UA — Audio unit terminal 4D and auxiliary jack/USB port terminal UB • Short to ground in wiring harness between the following terminals: <ul style="list-style-type: none"> — Audio unit terminal 4A and auxiliary jack/USB port terminal UD — Audio unit terminal 4B and auxiliary jack/USB port terminal UC — Audio unit terminal 4C and auxiliary jack/USB port terminal UA — Audio unit terminal 4D and auxiliary jack/USB port terminal UB • Auxiliary jack/USB port malfunction • Audio unit malfunction
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>AUDIO UNIT</p>  <p>AUDIO UNIT WIRING HARNESS-SIDE CONNECTOR</p>  </div> <div style="text-align: center;"> <p>AUXILIARY JACK/USB PORT</p>  <p>AUXILIARY JACK/USB PORT WIRING HARNESS-SIDE CONNECTOR</p>  </div> </div>	

Diagnostic Procedure

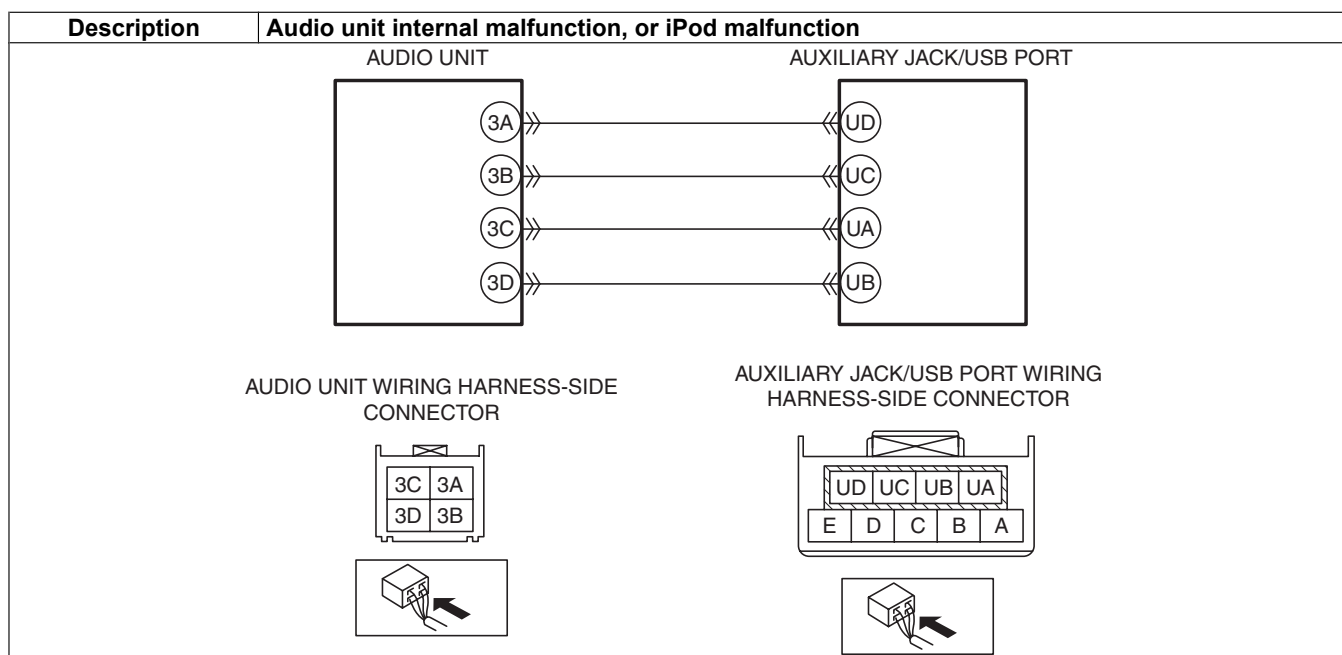
Step	Inspection	Action
1	INSPECT USB DEVICE/iPod <ul style="list-style-type: none"> • Connect the USB device/iPod to another vehicle (model/unit). • Is the USB device/iPod connection detected/unit plays back. 	Yes Go to the next step.
		No System is normal. (USB device/iPod malfunction or incompatible USB device.) Go to Step 7.
2	INSPECT AUXILIARY JACK/USB PORT CONNECTOR CONDITION <ul style="list-style-type: none"> • Disconnect the auxiliary jack/USB port connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is there any malfunctioning part? 	Yes Repair or replace the connector, then go to Step 7.
		No Go to the next step.

Step	Inspection	Action
3	INSPECT AUXILIARY JACK/USB PORT <ul style="list-style-type: none"> Inspect the auxiliary jack/USB port. (See AUXILIARY JACK/USB PORT INSPECTION.) Is there any malfunctioning part? 	Yes
		Replace the auxiliary jack/USB port, then go to Step 7. (See AUXILIARY JACK/USB PORT REMOVAL/INSTALLATION.)
4	INSPECT AUDIO UNIT CONNECTOR CONDITION <ul style="list-style-type: none"> Switch the ignition off (LOCK). Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Disconnect the audio unit connector. Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. Is there any malfunctioning part? 	Yes
		Repair or replace the connector, then go to Step 7.
5	INSPECT WIRING HARNESS FOR OPEN CIRCUIT BETWEEN AUDIO UNIT AND AUXILIARY JACK/USB PORT <ul style="list-style-type: none"> Verify that the connectors for the audio unit and the auxiliary jack/USB port are disconnected. Inspect for continuity between the following terminals (vehicle wiring harness). <ul style="list-style-type: none"> Audio unit terminal 4A and auxiliary jack/USB port terminal UD Audio unit terminal 4B and auxiliary jack/USB port terminal UC Audio unit terminal 4C and auxiliary jack/USB port terminal UA Audio unit terminal 4D and auxiliary jack/USB port terminal UB Is there continuity? 	Yes
		Go to the next step.
		No Refer to the wiring diagram and verify if there is a common connector between the following terminals (vehicle wiring harness side). <ul style="list-style-type: none"> Audio unit terminal 4A and auxiliary jack/USB port terminal UD Audio unit terminal 4B and auxiliary jack/USB port terminal UC Audio unit terminal 4C and auxiliary jack/USB port terminal UA Audio unit terminal 4D and auxiliary jack/USB port terminal UB If there is a common connector: <ul style="list-style-type: none"> Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit. Repair or replace the malfunctioning part. If there is no common connector: <ul style="list-style-type: none"> Repair or replace the wiring harness which has an open circuit. Go to Step 7.

Step	Inspection		Action
6	INSPECT WIRING HARNESS FOR SHORT TO GROUND BETWEEN AUDIO UNIT AND AUXILIARY JACK/USB PORT <ul style="list-style-type: none"> Inspect for continuity between the following wiring harness terminals (vehicle wiring harness side) and body ground. <ul style="list-style-type: none"> — Auxiliary jack/USB port terminal UD — Auxiliary jack/USB port terminal UC — Auxiliary jack/USB port terminal UA — Auxiliary jack/USB port terminal UB Is there continuity? 	Yes	Refer to the wiring diagram and verify if there is a common connector between the following terminals (vehicle wiring harness side). <ul style="list-style-type: none"> • Auxiliary jack/USB port terminal UD • Auxiliary jack/USB port terminal UC • Auxiliary jack/USB port terminal UA • Auxiliary jack/USB port terminal UB If there is a common connector: <ul style="list-style-type: none"> • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground. • Repair or replace the malfunctioning part. If there is no common connector: <ul style="list-style-type: none"> • Repair or replace the wiring harness which has a short to ground. Go to Step 7.
		No	Go to the next step.
7	VERIFY THAT REPAIRS HAVE BEEN COMPLETED <ul style="list-style-type: none"> Reconnect all the disconnected connectors. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Clear the audio unit DTCs. (See CLEARING DTC [AUDIO].) Perform the audio unit DTC inspection. (See DTC INSPECTION [AUDIO].) Is the same DTC displayed? 	Yes	Return to Step 1 and inspect for other possible causes. If the malfunction recurs, replace the audio unit, then go to the next step. (See AUDIO UNIT REMOVAL/INSTALLATION.)
		No	Go to the next step.
8	VERIFY IF OTHER DTCs DISPLAYED <ul style="list-style-type: none"> Are any other DTCs displayed? 	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [AUDIO].)
		No	DTC troubleshooting completed.

Audio unit (without color LCD)

Description	Audio unit internal malfunction, or iPod malfunction
Detection condition	When iPod is connected, audio unit read error is detected
Fail-safe function	Not applicable
Possible cause	<ul style="list-style-type: none"> • USB device/iPod malfunction • Incompatible USB device (format) used • Audio unit connector or terminal malfunction • Auxiliary jack/USB port connector or terminal malfunction • Open circuit in wiring harness between the following terminals: <ul style="list-style-type: none"> — Audio unit terminal 3A and auxiliary jack/USB port terminal UD — Audio unit terminal 3B and auxiliary jack/USB port terminal UC — Audio unit terminal 3C and auxiliary jack/USB port terminal UA — Audio unit terminal 3D and auxiliary jack/USB port terminal UB • Short to ground in wiring harness between the following terminals: <ul style="list-style-type: none"> — Audio unit terminal 3A and auxiliary jack/USB port terminal UD — Audio unit terminal 3B and auxiliary jack/USB port terminal UC — Audio unit terminal 3C and auxiliary jack/USB port terminal UA — Audio unit terminal 3D and auxiliary jack/USB port terminal UB • Auxiliary jack/USB port malfunction • Audio unit malfunction



Diagnostic Procedure

Step	Inspection	Action
1	INSPECT USB DEVICE/iPod <ul style="list-style-type: none"> Connect the USB device/iPod to another vehicle (model/unit). Is the USB device/iPod connection detected/unit plays back. 	Yes Go to the next step.
		No System is normal. (USB device/iPod malfunction or incompatible USB device.) Go to Step 7.
2	INSPECT AUXILIARY JACK/USB PORT CONNECTOR CONDITION <ul style="list-style-type: none"> Disconnect the auxiliary jack/USB port connector. Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. Is there any malfunctioning part? 	Yes Repair or replace the connector, then go to Step 7.
		No Go to the next step.
3	INSPECT AUXILIARY JACK/USB PORT <ul style="list-style-type: none"> Inspect the auxiliary jack/USB port. (See AUXILIARY JACK/USB PORT INSPECTION.) Is there any malfunctioning part? 	Yes Replace the auxiliary jack/USB port, then go to Step 7. (See AUXILIARY JACK/USB PORT REMOVAL/INSTALLATION.)
		No Go to the next step.
4	INSPECT AUDIO UNIT CONNECTOR CONDITION <ul style="list-style-type: none"> Switch the ignition off (LOCK). Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Disconnect the audio unit connector. Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. Is there any malfunctioning part? 	Yes Repair or replace the connector, then go to Step 7.
		No Go to the next step.

Step	Inspection	Action
5	INSPECT WIRING HARNESS FOR OPEN CIRCUIT BETWEEN AUDIO UNIT AND AUXILIARY JACK/USB PORT <ul style="list-style-type: none"> Verify that the connectors for the audio unit and the auxiliary jack/USB port are disconnected. Inspect for continuity between the following terminals (vehicle wiring harness). <ul style="list-style-type: none"> Audio unit terminal 3A and auxiliary jack/USB port terminal UD Audio unit terminal 3B and auxiliary jack/USB port terminal UC Audio unit terminal 3C and auxiliary jack/USB port terminal UA Audio unit terminal 3D and auxiliary jack/USB port terminal UB Is there continuity? 	Yes Go to the next step.
		No Refer to the wiring diagram and verify if there is a common connector between the following terminals (vehicle wiring harness side). <ul style="list-style-type: none"> Audio unit terminal 3A and auxiliary jack/USB port terminal UD Audio unit terminal 3B and auxiliary jack/USB port terminal UC Audio unit terminal 3C and auxiliary jack/USB port terminal UA Audio unit terminal 3D and auxiliary jack/USB port terminal UB If there is a common connector: <ul style="list-style-type: none"> Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit. Repair or replace the malfunctioning part. If there is no common connector: <ul style="list-style-type: none"> Repair or replace the wiring harness which has an open circuit. Go to Step 7.
6	INSPECT WIRING HARNESS FOR SHORT TO GROUND BETWEEN AUDIO UNIT AND AUXILIARY JACK/USB PORT <ul style="list-style-type: none"> Inspect for continuity between the following wiring harness terminals (vehicle wiring harness side) and body ground. <ul style="list-style-type: none"> Auxiliary jack/USB port terminal UD Auxiliary jack/USB port terminal UC Auxiliary jack/USB port terminal UA Auxiliary jack/USB port terminal UB Is there continuity? 	Yes Refer to the wiring diagram and verify if there is a common connector between the following terminals (vehicle wiring harness side). <ul style="list-style-type: none"> Auxiliary jack/USB port terminal UD Auxiliary jack/USB port terminal UC Auxiliary jack/USB port terminal UA Auxiliary jack/USB port terminal UB If there is a common connector: <ul style="list-style-type: none"> Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground. Repair or replace the malfunctioning part. If there is no common connector: <ul style="list-style-type: none"> Repair or replace the wiring harness which has a short to ground. Go to Step 7.
		No Go to the next step.
7	VERIFY THAT REPAIRS HAVE BEEN COMPLETED <ul style="list-style-type: none"> Reconnect all the disconnected connectors. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Clear the audio unit DTCs. (See CLEARING DTC [AUDIO].) Perform the audio unit DTC inspection. (See DTC INSPECTION [AUDIO].) Is the same DTC displayed? 	Yes Return to Step 1 and inspect for other possible causes. If the malfunction recurs, replace the audio unit, then go to the next step. (See AUDIO UNIT REMOVAL/INSTALLATION.)
		No Go to the next step.
8	VERIFY IF OTHER DTCs DISPLAYED <ul style="list-style-type: none"> Are any other DTCs displayed? 	Yes Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [AUDIO].)
		No DTC troubleshooting completed.