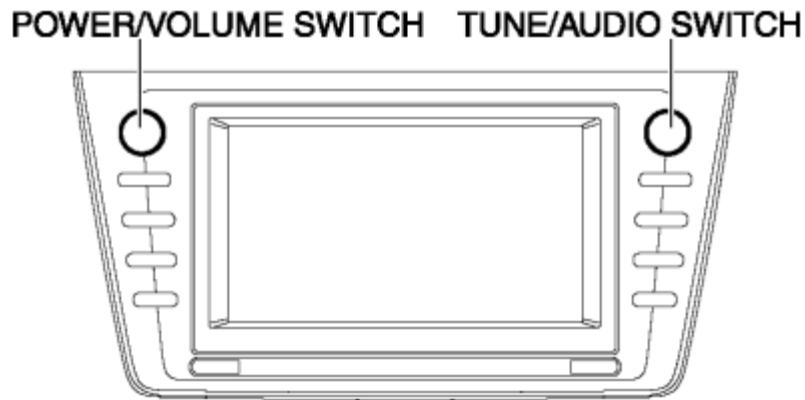


2012 - Mazda6 - Body and Accessories

DIAGNOSTIC ASSIST FUNCTION [CAR-NAVIGATION SYSTEM]

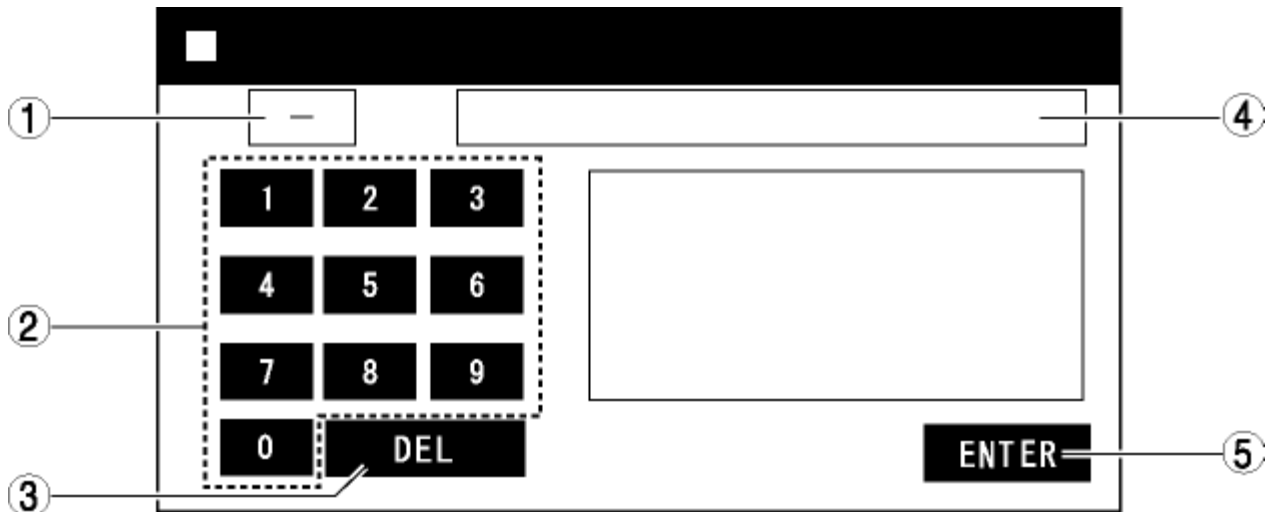
Starting Procedure

1. Switch the ignition to ACC or ON.
2. Turn the audio power to ON.
3. While pressing the POWER/VOLUME switch, simultaneously press the TUNE/AUDIO switch for **0.2 s or more**.



4. Press the "Diagnostic assist code input switch", and input the diagnostic assist code.
5. Select "ENTER".

Diagnostic assist code input screen



No.	Name	Content/function
1	Diagnostic assist code	Display the diagnostic assist code.
2	Diagnostic assist code input switch	Input the diagnostic assist code.
3	DEL switch	Clear the diagnostic assist code.
4	Diagnostic content	Display the diagnostic content.
5	ENTER	Go to the diagnostic assist function.

6. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.

7. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code table

No.	Content/function
01	Diagnostic assist code “01” display inspection
02	Diagnostic assist code “02” switch inspection
03	Diagnostic assist code “03” speaker inspection
04	Diagnostic assist code “04” radio reception condition inspection
05	Diagnostic assist code “05” antenna control output condition inspection
06	Diagnostic assist code “06” supplier identification
07	Diagnostic assist code “07” audio amplifier specification inspection
08	Diagnostic assist code “08” display open/ close inspection
09	Diagnostic assist code “09” radio SEEK inspection
10	Diagnostic assist code “10” software version verification
11	Diagnostic assist code “11” DVD/ CD drive inspection

Diagnostic assist code “01” display inspection

1. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “01”.
2. Select “ENTER”.

Inspection	Display	Action	
• Launch the display inspection mode. • Verify the display.	Red→Green→Blue→White→Black→Color bar→Grey bar→Position adjustment screen	The display displays normally.	The display is normal.
		The display does not display normally.	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)

3. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
4. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “02” switch inspection

1. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “02”.
2. Select “ENTER”.

Inspection	Display	Action	
• Launch the switch inspection mode. • Operate all of the switches (press). • Does the buzzer sound?	—	Yes	The switch is normal.
		No	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)

3. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
4. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “03” speaker inspection

1. Press the "Diagnostic assist code input switch", and input the diagnostic assist code "03".
2. Select "ENTER".

Inspection	Display	Action
• Launch the speaker inspection mode. • Does each speaker output sound in the following order?: 1. Front door speaker (LH) and tweeter (LH) and front center speaker 2. Front door speaker (RH) and tweeter (RH) and front center speaker 3. Rear door speaker (RH) and rear speaker (RH) and rear center speaker 4. Rear door speaker (LH) and rear speaker (LH) and rear center speaker	—	Yes The speakers and the wiring harness between the car-navigation unit and speakers are normal.
		No • If no sound is produced from all of the speakers. (See NO.3 NO SOUND FROM ALL SPEAKERS [ENTIRE AUDIO SYSTEM] .) • If no sound is produced from some of the speakers. (See NO.4 NO SOUND FROM SOME SPEAKERS [ENTIRE AUDIO SYSTEM] .)

3. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
4. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code "04" radio reception condition inspection

1. Launch the diagnostic assist function with the radio power on and the radio receiving broadcasts. (See **Starting Procedure**.)
2. Press the "Diagnostic assist code input switch", and input the diagnostic assist code "04".

3. Select "ENTER".

4. Inspect according to the following table:

CAUTION:

- Even if the system is normal, radio reception may be difficult depending on where the system is inspected (indoors/outdoors, or conditions at the location). Before inspecting the system, verify that radio reception is adequate.
- When performing the inspection, select the best area for receiving radio frequencies.

Inspection	Display (AM 522 kHz reception)	Action
Start the radio reception condition inspection mode.	LEV-10 522—LEV 5 522	Glass antenna, antenna feeder, antenna amplifier and car-navigation unit are normal.
	LEV-4 522—LEV 3 522	Change frequencies and re-perform the inspection.
	LEV-2 522—LEV 0 522	• Inspect the glass antenna and antenna amplifier and antenna feeder. (See GLASS ANTENNA INSPECTION.) (See ANTENNA AMPLIFIER INSPECTION.) (See ANTENNA FEEDER NO.1 INSPECTION.) (See ANTENNA FEEDER NO.2 INSPECTION.) (See ANTENNA FEEDER NO.3 INSPECTION.) • If either the glass antenna or the antenna feeder or antenna amplifier is not normal, replace the malfunctioning part. (See ANTENNA FEEDER NO.1 REMOVAL/ INSTALLATION.) (See ANTENNA FEEDER NO.2 REMOVAL/ INSTALLATION.) (See ANTENNA FEEDER NO.3 REMOVAL/ INSTALLATION.) (See ANTENNA AMPLIFIER REMOVAL/ INSTALLATION.) • If the glass antenna and antenna feeder are normal,

replace the car-navigation unit.

(See **CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.**)

5. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
6. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “05” antenna control output condition inspection

1. Launch the diagnostic assist function with the radio power on and the radio receiving broadcasts. (See **Starting Procedure.**)
2. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “05”.
3. Select “ENTER”.
4. Inspect according to the following table:

CAUTION:

- Even if the system is normal, radio reception may be difficult depending on where the system is inspected (indoors/outdoors, or conditions at the location). Before inspecting the system, verify that radio reception is adequate.
- When performing the inspection, select the best area for receiving radio frequencies.

Inspection	Display	Action	
Start antenna control condition inspection mode.	ANT-ON	Sound quality good.	System is okay.
		Sound quality poor.	(See NO.1 NO RADIO RECEPTION (AM/ FM)/ NO OR LOW VOLUME [RADIO].)
	ANT-OFF	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)	

5. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
6. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “06” supplier identification

1. Refer to the supplier identification procedure. (See [SUPPLIER IDENTIFICATION PROCEDURE \[CAR-NAVIGATION SYSTEM\]](#).)

Diagnostic assist code “07” audio amplifier specification inspection

1. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “07”.
2. Select “ENTER”.

Inspection	Display	Action	
• Launch the audio amplifier specification inspection mode. • Verify the audio amplifier specification. • Does the audio amplifier specification correspond?	Without Bose® • N (Normal) With Bose® • L (Line out)	Yes	System is okay.
		No	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)

3. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
4. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “08” display open/ close inspection

1. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “08”.
2. Select “ENTER”.

Inspection	Display	Action	
• Launch the audio display open/close inspection mode. • Does the display open/close in the following order? 1. close→open→close	—	Yes	System is okay.
		No	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)

3. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
4. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “09” radio SEEK inspection

- 1. Launch the diagnostic assist function with the radio power on and the radio receiving broadcasts. (See [Starting Procedure.](#))
- 2. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “09”.
- 3. Select “ENTER”.

Inspection	Display	Action	
• Launch the radio SEEK inspection mode. • Verify the SEEK inspection to the directions on the screen. • Is the inspection result normal?	—ch RECEIVED	Yes	System is okay.
		No	• Inspect the glass antenna and antenna feeder and antenna amplifier. (See GLASS ANTENNA INSPECTION.) (See ANTENNA AMPLIFIER INSPECTION.) (See ANTENNA FEEDER NO.1 INSPECTION.) (See ANTENNA FEEDER NO.2 INSPECTION.) (See ANTENNA FEEDER NO.3 INSPECTION.) • If the glass antenna and antenna feeder are normal, replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)

- 4. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
- 5. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “10” software version verification

- 1. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “10”.
- 2. Select “ENTER”.
- 3. Verify the software version.

Inspection	Display	Action

Launch the software version verification mode. • Verify the software version.	Display the software version.	—
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- Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
- Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “11” DVD/ CD drive inspection

- Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “11”.
- Select “ENTER”.

Inspection	Display	Action	
- Launch the DVD/CD drive inspection mode. - Insert the DVD or CD. - Is the inspection result normal?	USER DISC DEFECT	Yes	System is okay.
	CD-DRIVE MALFUNCTION	No	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)

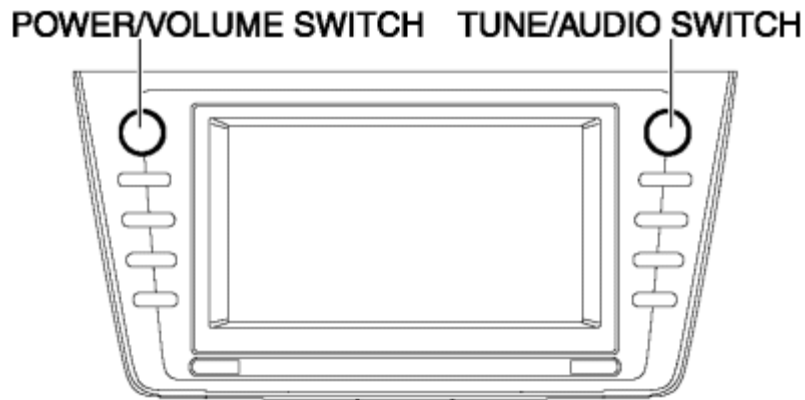
- Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
- Press the POWER/VOLUME switch to release the diagnostic assist function.

2012 - Mazda6 - Body and Accessories

DIAGNOSTIC ASSIST FUNCTION [CAR-NAVIGATION SYSTEM]

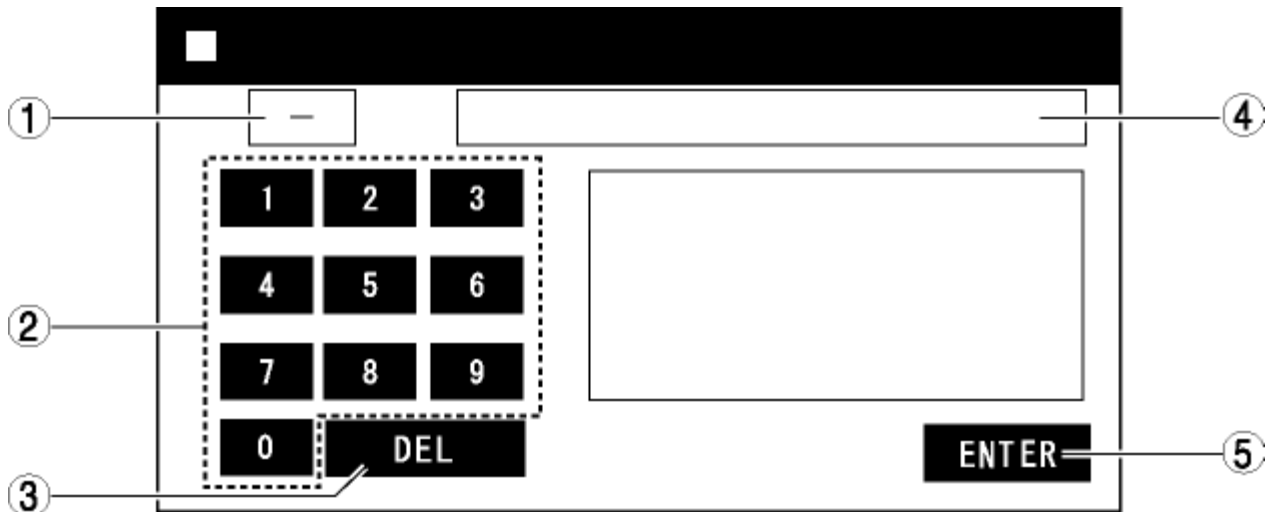
Starting Procedure

1. Switch the ignition to ACC or ON.
2. Turn the audio power to ON.
3. While pressing the POWER/VOLUME switch, simultaneously press the TUNE/AUDIO switch for **0.2 s or more**.



4. Press the "Diagnostic assist code input switch", and input the diagnostic assist code.
5. Select "ENTER".

Diagnostic assist code input screen



No.	Name	Content/function
1	Diagnostic assist code	Display the diagnostic assist code.
2	Diagnostic assist code input switch	Input the diagnostic assist code.
3	DEL switch	Clear the diagnostic assist code.
4	Diagnostic content	Display the diagnostic content.
5	ENTER	Go to the diagnostic assist function.

6. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.

7. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code table

No.	Content/function
01	Diagnostic assist code “01” display inspection
02	Diagnostic assist code “02” switch inspection
03	Diagnostic assist code “03” speaker inspection
04	Diagnostic assist code “04” radio reception condition inspection
05	Diagnostic assist code “05” antenna control output condition inspection
06	Diagnostic assist code “06” supplier identification
07	Diagnostic assist code “07” audio amplifier specification inspection
08	Diagnostic assist code “08” display open/ close inspection
09	Diagnostic assist code “09” radio SEEK inspection
10	Diagnostic assist code “10” software version verification
11	Diagnostic assist code “11” DVD/ CD drive inspection

Diagnostic assist code “01” display inspection

1. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “01”.
2. Select “ENTER”.

Inspection	Display	Action	
• Launch the display inspection mode. • Verify the display.	Red→Green→Blue→White→Black→Color bar→Grey bar→Position adjustment screen	The display displays normally.	The display is normal.
		The display does not display normally.	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)

3. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
4. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “02” switch inspection

1. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “02”.
2. Select “ENTER”.

Inspection	Display	Action	
• Launch the switch inspection mode. • Operate all of the switches (press). • Does the buzzer sound?	—	Yes	The switch is normal.
		No	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)

3. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
4. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “03” speaker inspection

1. Press the "Diagnostic assist code input switch", and input the diagnostic assist code "03".
2. Select "ENTER".

Inspection	Display	Action
• Launch the speaker inspection mode. • Does each speaker output sound in the following order?: 1. Front door speaker (LH) and tweeter (LH) and front center speaker 2. Front door speaker (RH) and tweeter (RH) and front center speaker 3. Rear door speaker (RH) and rear speaker (RH) and rear center speaker 4. Rear door speaker (LH) and rear speaker (LH) and rear center speaker	—	Yes The speakers and the wiring harness between the car-navigation unit and speakers are normal.
		No • If no sound is produced from all of the speakers. (See NO.3 NO SOUND FROM ALL SPEAKERS [ENTIRE AUDIO SYSTEM] .) • If no sound is produced from some of the speakers. (See NO.4 NO SOUND FROM SOME SPEAKERS [ENTIRE AUDIO SYSTEM] .)

3. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
4. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code "04" radio reception condition inspection

1. Launch the diagnostic assist function with the radio power on and the radio receiving broadcasts. (See **Starting Procedure**.)
2. Press the "Diagnostic assist code input switch", and input the diagnostic assist code "04".

3. Select "ENTER".

4. Inspect according to the following table:

CAUTION:

- Even if the system is normal, radio reception may be difficult depending on where the system is inspected (indoors/outdoors, or conditions at the location). Before inspecting the system, verify that radio reception is adequate.
- When performing the inspection, select the best area for receiving radio frequencies.

Inspection	Display (AM 522 kHz reception)	Action
Start the radio reception condition inspection mode.	LEV-10 522—LEV 5 522	Glass antenna, antenna feeder, antenna amplifier and car-navigation unit are normal.
	LEV-4 522—LEV 3 522	Change frequencies and re-perform the inspection.
	LEV-2 522—LEV 0 522	• Inspect the glass antenna and antenna amplifier and antenna feeder. (See GLASS ANTENNA INSPECTION.) (See ANTENNA AMPLIFIER INSPECTION.) (See ANTENNA FEEDER NO.1 INSPECTION.) (See ANTENNA FEEDER NO.2 INSPECTION.) (See ANTENNA FEEDER NO.3 INSPECTION.) • If either the glass antenna or the antenna feeder or antenna amplifier is not normal, replace the malfunctioning part. (See ANTENNA FEEDER NO.1 REMOVAL/ INSTALLATION.) (See ANTENNA FEEDER NO.2 REMOVAL/ INSTALLATION.) (See ANTENNA FEEDER NO.3 REMOVAL/ INSTALLATION.) (See ANTENNA AMPLIFIER REMOVAL/ INSTALLATION.) • If the glass antenna and antenna feeder are normal,

replace the car-navigation unit.

(See **CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.**)

5. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
6. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “05” antenna control output condition inspection

1. Launch the diagnostic assist function with the radio power on and the radio receiving broadcasts. (See **Starting Procedure.**)
2. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “05”.
3. Select “ENTER”.
4. Inspect according to the following table:

CAUTION:

- Even if the system is normal, radio reception may be difficult depending on where the system is inspected (indoors/outdoors, or conditions at the location). Before inspecting the system, verify that radio reception is adequate.
- When performing the inspection, select the best area for receiving radio frequencies.

Inspection	Display	Action	
Start antenna control condition inspection mode.	ANT-ON	Sound quality good.	System is okay.
		Sound quality poor.	(See NO.1 NO RADIO RECEPTION (AM/ FM)/ NO OR LOW VOLUME [RADIO].)
	ANT-OFF	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)	

5. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
6. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “06” supplier identification

1. Refer to the supplier identification procedure. (See [SUPPLIER IDENTIFICATION PROCEDURE \[CAR-NAVIGATION SYSTEM\]](#).)

Diagnostic assist code “07” audio amplifier specification inspection

1. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “07”.
2. Select “ENTER”.

Inspection	Display	Action	
• Launch the audio amplifier specification inspection mode. • Verify the audio amplifier specification. • Does the audio amplifier specification correspond?	Without Bose® • N (Normal) With Bose® • L (Line out)	Yes	System is okay.
		No	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)

3. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
4. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “08” display open/ close inspection

1. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “08”.
2. Select “ENTER”.

Inspection	Display	Action	
• Launch the audio display open/close inspection mode. • Does the display open/close in the following order? 1. close→open→close	—	Yes	System is okay.
		No	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)

3. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
4. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “09” radio SEEK inspection

- 1. Launch the diagnostic assist function with the radio power on and the radio receiving broadcasts. (See [Starting Procedure.](#))
- 2. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “09”.
- 3. Select “ENTER”.

Inspection	Display	Action	
• Launch the radio SEEK inspection mode. • Verify the SEEK inspection to the directions on the screen. • Is the inspection result normal?	—ch RECEIVED	Yes	System is okay.
		No	• Inspect the glass antenna and antenna feeder and antenna amplifier. (See GLASS ANTENNA INSPECTION.) (See ANTENNA AMPLIFIER INSPECTION.) (See ANTENNA FEEDER NO.1 INSPECTION.) (See ANTENNA FEEDER NO.2 INSPECTION.) (See ANTENNA FEEDER NO.3 INSPECTION.) • If the glass antenna and antenna feeder are normal, replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)

- 4. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
- 5. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “10” software version verification

- 1. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “10”.
- 2. Select “ENTER”.
- 3. Verify the software version.

Inspection	Display	Action

Launch the software version verification mode. • Verify the software version.	Display the software version.	—
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4. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
5. Press the POWER/VOLUME switch to release the diagnostic assist function.

Diagnostic assist code “11” DVD/ CD drive inspection

1. Press the “Diagnostic assist code input switch”, and input the diagnostic assist code “11”.
2. Select “ENTER”.

Inspection	Display	Action	
• Launch the DVD/CD drive inspection mode. • Insert the DVD or CD. • Is the inspection result normal?	USER DISC DEFECT	Yes	System is okay.
	CD-DRIVE MALFUNCTION	No	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)

3. Press the POWER/VOLUME switch to return to the diagnostic assist code input screen.
4. Press the POWER/VOLUME switch to release the diagnostic assist function.