

2012 - Mazda6 - Body and Accessories

NO.2 SYSTEM DOES NOT CONTROL AUDIO BY STEERING SWITCH [CAR-NAVIGATION SYSTEM]

2	System does not control audio by steering switch
POSSIBLE CAUSE	• Poor connection of ca-navigation unit connector, terminal damage • Open or short circuit in wiring harness between steering switch and car-navigation unit. • Steering switch malfunction. • Car-navigation unit malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	• Switch the ignition to ACC. • Start audio system using the steering switch. • Control the audio using the steering switch. • Is the audio system controlled normally?	Yes	The system is normal.
		No	Go to the next step.
2	• Inspect the connection of the car-navigation unit connectors (24-pin). • Is the car-navigation unit connector connected securely?	Yes	Go to the next step.
		No	Securely connect the car-navigation unit connector.
3	• Disconnect the car-navigation unit connector (24-pin). • Inspect both car-navigation unit connector and wiring harness-side connector terminals 1N and 1P for poor connection (such as damaged/pulled-out pins, corrosion). • Are all the pins normal?	Yes	Go to the next step.
		No	If the car-navigation unit connector is wrong: • Replace the car-navigation unit. CAR-NAVIGATION

			(See UNIT REMOVAL/ INSTALLATION.) If the wiring harness-side connector is wrong: • Repair or replace the pins and/or the connector.
4	• Car-navigation unit connector (24-pin) disconnected. • Measure the resistance between terminal 1N and 1P at car-navigation unit harness-side connector (24-pin) while the steering switch is selected. • Is the resistance within the specified? Specification ◦ 50 ohms — 5 kilo-ohms (Resistance is changing according to audio switch pressed position.)	Yes	Go to the next step.
		No	Inspect and repair the following: • Steering switch. (See STEERING SWITCH INSPECTION.) • Wiring harness between car-navigation unit and steering switch for open or short circuit).
5	• Verify that the continuity between terminal H (6-pin) and 1P (24-pin) at car-navigation unit harness-side connector while the steering switch is pressed. • Is there continuity?	Yes	Troubleshooting completed. (The system is normal.)
		No	Inspect and repair the following: • steering switch. (See STEERING SWITCH INSPECTION.) • Wiring harness between car-navigation unit and steering switch for open or short circuit).

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		No	Go to the next step.
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		No	If the car-navigation unit connector is wrong: • Replace the car-navigation unit. CAR-NAVIGATION

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