

2012 - Mazda6 - Body and Accessories

NO.1 CAR-NAVIGATION SYSTEM DOES NOT START OPERATION (DISPLAY CHANGES TO BACK.) [CAR-NAVIGATION SYSTEM]

1	Car-navigation system does not start operation (Display screen changes to black.)
POSSIBLE CAUSE	• Melt or damaged power supply (B+, ACC) related fuse. • Open or short circuit in car-navigation unit (power supply (B+)) wiring harness • Open or short circuit in car-navigation unit (power supply (ACC)) wiring harness • Open or short circuit in car-navigation unit (GND) wiring harness • Poor connection of car-navigation unit connector, terminal damage • Car-navigation unit malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	• Switch the ignition to ACC.	Yes Go to Step 6.
	• Does the car-navigation system start and display map on screen?	No Go to the next step.
2	• Switch the ignition to off.	Yes Go to the next step.
	• Inspect following fuses. ▪ ROOM 15 A ▪ MIRROR 5 A • Are fuses normal?	No If the fuse is melted, inspect the wiring harness for short to ground. Repair or replace the wiring harness, then replace the fuse. Replace with the appropriate standard fuse.
3	• Inspect the connection of	Yes Go to the next step.

	the car-navigation unit connectors (24-pin). Are the car-navigation unit connectors connected securely?	No	Securely connect the car-navigation unit.
4	- Disconnect the car-navigation unit connectors (24-pin). - Map screen is displayed. - 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. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.) If the wiring harness-side connector is wrong: - Repair or replace the pins and/or the connector.
5	- Switch the ignition to ACC. - Measure the following car-navigation unit connector (24-pin) terminals. - Terminal 1B (+B): B+ - Terminal 1R (ACC): B+ - Terminal 1W (GND): below 1.0V - Are voltages normally?	Yes	Go to the next step.
		No	Repair or replace malfunctioning wiring harness.
6	- Switch the ignition to ON. - Does the car-navigation system start and display map on screen?	Yes	The system is normal.
		No	Replace the car-navigation unit. (See CAR-NAVIGATION UNIT REMOVAL/ INSTALLATION.)

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