

2012 - Mazda6 - Body and Accessories

NO.8 AudioPilot®2 FUNCTION IS INOPERATIVE [ENTIRE AUDIO SYSTEM]

8	AudioPilot® 2 function is inoperative	
Possible DTC	Audio unit (without display)	16:Er11, 16:Er12
	Audio unit (with display) or car-navigation unit	Device code 16/error code 12
Possible cause	• Open or short circuit in AudioPilot® 2 microphone signal wiring harness • Open or short circuit in AudioPilot® 2 signal wiring harness • Audio amplifier malfunction	

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	• Turn the AudioPilot® 2 function on. • Inspect the AudioPilot® 2 function operation while driving the vehicle. • Does the AudioPilot® 2 system operation properly?	Yes	The system is normal. Explain the AudioPilot® 2 function to the customer.
		No	Go to the next step.
2	• Inspect the connection of the audio amplifier connector (AudioPilot® 2 microphone signal). • Inspect both the audio amplifier wiring harness-side connector terminal 1O and 1P for a poor connection (such as damaged/pulled-out pins, corrosion). • Are all the pins normal?	Yes	Repair or replace the pins and/or the connector.
		No	Go to the next step.
3	• Inspect the connection of the AudioPilot® 2 microphone connector (2-pin). • Inspect the AudioPilot® 2 microphone wiring harness-side connector terminal A and B (2-pin) for poor connection (such as damaged/pulled-out pins, corrosion).	Yes	Repair or replace the pins and/or the connector.
		No	Go to the next step.

	• Are all pins normal?		
4	• Inspect continuity between the following terminals of the audio amplifier connector and AudioPilot® 2 microphone connector. ▪ Terminal 1O—Terminal B (AudioPilot® 2 microphone+) ▪ Terminal 1P—Terminal A (AudioPilot® 2 microphone-) • Is there continuity?	Yes	Inspect for open or short circuit. Go to the next step.
		No	Repair or replace for open circuit.
5	• Retrieve the DTCs from all vehicle modules using the M-MDS. • Is there the following DTC displayed? ▪ Vehicle speed signal wiring harness ▪ CAN communication wiring harness	Yes	Go to the appropriate DTC inspection.
		No	Replace the audio amplifier. (See AUDIO AMPLIFIER REMOVAL/ INSTALLATION.)

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	Audio unit (with display) or car-navigation unit	Device code 16/error code 12
Possible cause	• Open or short circuit in AudioPilot® 2 microphone signal wiring harness • Open or short circuit in AudioPilot® 2 signal wiring harness • Audio amplifier malfunction	

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	• Turn the AudioPilot® 2 function on. • Inspect the AudioPilot® 2 function operation while driving the vehicle. • Does the AudioPilot® 2 system operation properly?	Yes	The system is normal. Explain the AudioPilot® 2 function to the customer.
		No	Go to the next step.
2	• Inspect the connection of the audio amplifier connector (AudioPilot® 2 microphone signal). • Inspect both the audio amplifier wiring harness-side connector terminal 1O and 1P for a poor connection (such as damaged/pulled-out pins, corrosion). • Are all the pins normal?	Yes	Repair or replace the pins and/or the connector.
		No	Go to the next step.
3	• Inspect the connection of the AudioPilot® 2 microphone connector (2-pin). • Inspect the AudioPilot® 2 microphone wiring harness-side connector terminal A and B (2-pin) for poor connection (such as damaged/pulled-out pins, corrosion).	Yes	Repair or replace the pins and/or the connector.
		No	Go to the next step.

	• Are all pins normal?		
4	• Inspect continuity between the following terminals of the audio amplifier connector and AudioPilot® 2 microphone connector. ▪ Terminal 1O—Terminal B (AudioPilot® 2 microphone+) ▪ Terminal 1P—Terminal A (AudioPilot® 2 microphone-) • Is there continuity?	Yes	Inspect for open or short circuit. Go to the next step.
		No	Repair or replace for open circuit.
5	• Retrieve the DTCs from all vehicle modules using the M-MDS. • Is there the following DTC displayed? ▪ Vehicle speed signal wiring harness ▪ CAN communication wiring harness	Yes	Go to the appropriate DTC inspection.
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