

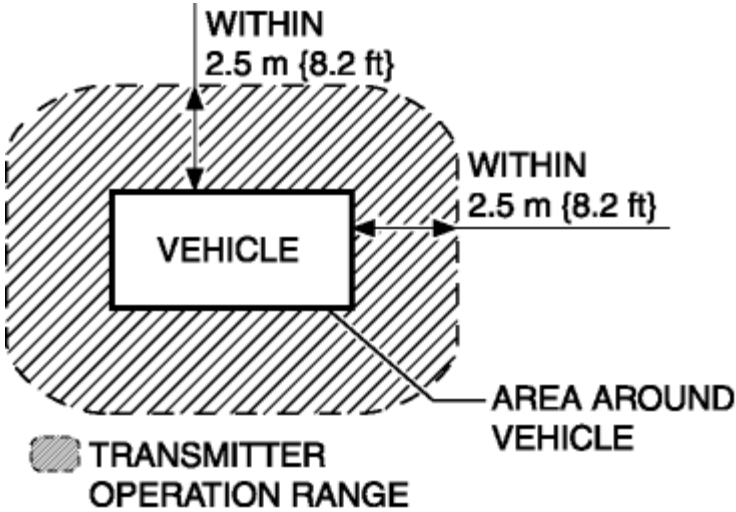
2012 - Mazda6 - Body and Accessories

KEYLESS ENTRY SYSTEM PRELIMINARY INSPECTION [KEYLESS ENTRY SYSTEM]

- Perform the following preliminary inspection before troubleshooting.

STEP	INSPECTION	ACTION	
1	• Is system an after-market one?	Yes	Perform troubleshooting according to after-market keyless entry system manual.
		No	Go to next step.
2	• Did customer activate keyless entry system when ignition switch was in LOCK position?	Yes	Go to next step.
		No	• Explain to customer that system does not work when ignition is key in key cylinder. • Switch the ignition to off, then go to next step.
3	• The transmitter operation indicator light (LED) illuminates when any operation using the transmitter is performed.	Yes	Go to Step 8.
		No	Go to the next step.
4	• Visually inspect the transmitter battery for the following: (See TRANSMITTER BATTERY REPLACEMENT [KEYLESS ENTRY SYSTEM] .) ▪ Battery direction (polarity) ▪ Battery type (CR1620) ▪ Corrosion, soiling, deformation of battery terminals (plus/minus terminals)	Yes	Battery insertion direction, battery type problem : • Properly install the battery or replace the battery with a specified one (CR1620), then go to the next step. Battery terminal malfunction: • Clean corrosion and soiling or repair the terminal, then go to the next step.
		No	Go to Step 6.

	▪ Contact malfunction between the battery terminal and battery when battery is inserted • Is there any malfunction?		
5	• Does the keyless entry system operate properly?	Yes	Go to Step 8.
		No	Go to the next step.
6	NOTE: • Use a new monitor battery (normal battery) or one from another vehicle which operates normally. • Replace the battery in all the transmitters with a monitor-use battery (normal battery). (See TRANSMITTER BATTERY REPLACEMENT [KEYLESS ENTRY SYSTEM] .) • For each transmitter, verify that the transmitter operation indicator light (LED) illuminates when a button is operated. • Does operation indicator light (LED) for each transmitter operate?	Yes	Go to the next step.
		No	If the operation indicator light (LED) does not illuminate, replace the transmitter, then go to Step 11.
7	NOTE: • Inspect for all transmitters. • Inspect while the batteries for all of the transmitters are replaced with monitor-use batteries (normal battery). • Verify the operation of keyless entry system using all of the transmitters. • Does the keyless entry system operate normally?	Yes	Replace the battery, then go to Step 11. (See TRANSMITTER BATTERY REPLACEMENT [KEYLESS ENTRY SYSTEM] .)
		No	Go to the next step.
8	• Did the customer activate the transmitter within operative area (Within 2.5 m {8.2 ft} from area around vehicle)?	Yes	Go to the next step.
		No	The system is normal.

			Explain to the customer that the system does not work without the system operative area.
9	Did customer use keyless entry system in particular area, such as being near TV towers, power plants, power lines, or factories?	Yes	Attempt to lock/unlock doors with transmitter in non-interference area. If system operates: - Area of operation is bad. Explain effect of outside interference on transmitter to customer. If system does not operate: - Go to next step.
		No	Go to next step.
10	- Are any of the following after-market electrical parts on the vehicle? - Cellular phone - Radio-wave equipment - Remote engine starter - TV, etc.	Yes	Disconnect after-market electrical part connectors and attempt to lock/unlock doors with transmitter. If system operates: - After-market electrical parts are interfering with keyless entry system. If system does not operate: - Go to next step.
		No	Go to next step.
11	Reform the keyless entry system operation inspection. (See KEYLESS ENTRY SYSTEM OPERATION INSPECTION [KEYLESS ENTRY SYSTEM] .)	Yes	Go to next step.
		No	Go to Step 1 of NO. 1 ONE OR MORE ON-BOARD DIAGNOSTIC FUNCTIONS

	Does the keyless entry system function work?		INOPERATIVE.
12	- Attempt to reprogram transmitter ID code. - Can transmitter ID code be reprogrammed?	Yes	System is normal now.
		No	Go to Step 1 of troubleshooting NO. 3 TRANSMITTER ID CODE CANNOT BE REPROGRAMMED.

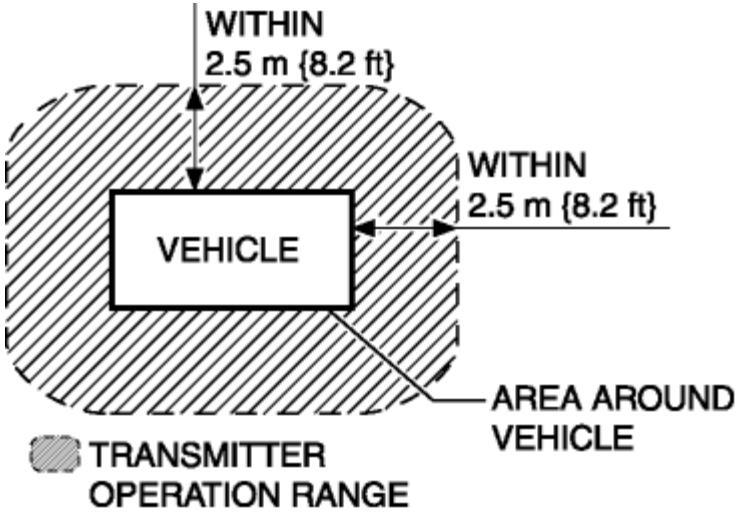
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3	• The transmitter operation indicator light (LED) illuminates when any operation using the transmitter is performed.	Yes	Go to Step 8.
		No	Go to the next step.
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	▪ Contact malfunction between the battery terminal and battery when battery is inserted • Is there any malfunction?		
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		No	If the operation indicator light (LED) does not illuminate, replace the transmitter, then go to Step 11.
7	NOTE: • Inspect for all transmitters. • Inspect while the batteries for all of the transmitters are replaced with monitor-use batteries (normal battery). • Verify the operation of keyless entry system using all of the transmitters. • Does the keyless entry system operate normally?	Yes	Replace the battery, then go to Step 11. (See TRANSMITTER BATTERY REPLACEMENT [KEYLESS ENTRY SYSTEM] .)
		No	Go to the next step.
8	• Did the customer activate the transmitter within operative area (Within 2.5 m {8.2 ft} from area around vehicle)?	Yes	Go to the next step.
		No	The system is normal.

	 Diagram illustrating the transmitter operation range around a vehicle. The vehicle is shown within a shaded area labeled "TRANSMITTER OPERATION RANGE". The range is defined as "WITHIN 2.5 m {8.2 ft}" from the vehicle. The area around the vehicle is also indicated.	Explain to the customer that the system does not work without the system operative area.
9	Did customer use keyless entry system in particular area, such as being near TV towers, power plants, power lines, or factories?	Yes Attempt to lock/unlock doors with transmitter in non-interference area. If system operates: - Area of operation is bad. Explain effect of outside interference on transmitter to customer. If system does not operate: - Go to next step. No Go to next step.
10	- Are any of the following after-market electrical parts on the vehicle? - Cellular phone - Radio-wave equipment - Remote engine starter - TV, etc.	Yes Disconnect after-market electrical part connectors and attempt to lock/unlock doors with transmitter. If system operates: - After-market electrical parts are interfering with keyless entry system. If system does not operate: - Go to next step. No Go to next step.
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