

2012 - Mazda6 - Suspension

DTC C2011:87/ C2012:87/ C2013:87/ C2014:87

DESCRIPTION	C2011:87	Wheel unit No.1 (no response)
	C2012:87	Wheel unit No.2 (no response)
	C2013:87	Wheel unit No.3 (no response)
	C2014:87	Wheel unit No.4 (no response)
DETECTION CONDITION	The keyless receiver has continuously not received a signal from the wheel unit for a certain period.	
POSSIBLE CAUSE	- Wheel unit is not installed - Wheel unit malfunction - Keyless receiver malfunction - Keyless receiver do not receive the signal from the wheel unit - Instrument cluster malfunction - Wheel unit identification code is not registered in the instrument cluster	

Diagnostic procedure

STEP	INSPECTION	ACTION
1	INSPECT WHEEL UNIT INSTALLATION - Inspect the wheel unit is installed to each wheel. - Are all four wheels equipped with each wheel units?	Yes Go to the next step.
		No Install the wheel unit correctly and register the wheel unit ID, then go to Step 4. (See WHEEL UNIT REMOVAL/ INSTALLATION.) (See WHEEL UNIT ID REGISTRATION.)
	IDENTIFY MALFUNCTIONING WHEEL UNIT	

2	- Identify the malfunctioning wheel unit. (See MALFUNCTIONING WHEEL UNIT IDENTIFICATION.) - Is there any malfunction?	Yes Replace and register the malfunctioning wheel unit, then go to Step 4. (See WHEEL UNIT REMOVAL/ INSTALLATION.) (See WHEEL UNIT ID REGISTRATION.)
		No With advanced keyless entry and push button start system. - Go to the next step. Without advanced keyless entry and push button start system. - Go to Step 4.
3	PERFORM ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM DTC INSPECTION - Switch the ignition to off. - Perform the advanced keyless entry and push button start system DTC inspection using the M-MDS. (See DTC INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) - Are any DTCs present?	Yes Go to the applicable DTC inspection. (See DTC TABLE [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) No Go to the next step.
4	PERFORM DTC INSPECTION - Clear the DTC from the memory using the M-MDS. (See TIRE PRESSURE MONITORING SYSTEM (TPMS) ON-BOARD DIAGNOSIS.) - Drive the vehicle at speed of more than 25 km/ h { 15.5 mph } for more than 10 min. - Perform the TPMS DTC inspection using the M-MDS. (See TIRE PRESSURE MONITORING SYSTEM (TPMS) ON-BOARD DIAGNOSIS.) - Is the same DTC present?	Yes Repeat the inspection from Step 1. If the malfunction recurs, replace the keyless receiver, then go to the next step. (See KEYLESS RECEIVER REMOVAL/ INSTALLATION.) No Go to Step 6.
5	VERIFY TROUBLESHOOTING COMPLETED Clear the DTC from the memory using the M-MDS. (See TIRE PRESSURE MONITORING	Yes Repeat the inspection from Step 1. If the malfunction recurs, replace and configure the instrument cluster, then go to the next step.

	SYSTEM (TPMS) ON-BOARD DIAGNOSIS.) • Drive the vehicle at speed of more than 25 km/ h { 15.5 mph} for more than 10 min. • Perform the TPMS DTC inspection using the M-MDS. (See TIRE PRESSURE MONITORING SYSTEM (TPMS) ON-BOARD DIAGNOSIS.) • Is the same DTC present?	(See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION.) (See INSTRUMENT CLUSTER CONFIGURATION.)
		No Go to the next step.
6	VERIFY AFTER REPAIR PROCEDURE • Drive the vehicle at speed of more than 25 km/ h { 15.5 mph} for more than 10 min. • Are any DTCs present?	Yes Go to the applicable DTC inspection. (See TIRE PRESSURE MONITORING SYSTEM (TPMS) ON-BOARD DIAGNOSIS.)
		No DTC troubleshooting completed.

NOTE:

- If the wheel unit has been newly replaced, the TPMS warning light may flashes before the ID registration is complete, and DTC C2011:87, C2012:87, C2013:87 and C2014:87 may be stored in the memory. In this case, reimplement the wheel unit ID registration, and after confirming that the TPMS warning light is no longer flashing, erase the DTC. If the TPMS warning light does not go out, a malfunction on any one of the wheel units may have occurred and the ID registration will not have been correctly performed. Repeat the diagnostic procedure from Step 1 and perform and inspection.

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