2012 - Mazda6 - Body and Accessories

DTC U2005:86 [INSTRUMENT CLUSTER]

DESCRIPTION	Signal error from PCM
DETECTION CONDITION	• Instrument cluster detects invalid vehicle speed from PCM under the following conditions: ▪ Passed **20 s** after switch the ignition to ON ▪ Odometer is normal and **more than 30 km/h {19 mph}** ▪ Battery voltage is **more than 10 V** ▪ Received invalid data from PCM for **1 s**
POSSIBLE CAUSE	• PCM malfunction • Instrument cluster malfunction

Diagnostic Procedure

Step	Inspection		Action
1	**PERFORM PCM DTC INSPECTION** • Perform the PCM DTC inspection using the M-MDS. (See **ON-BOARD DIAGNOSTIC TEST [MZR 2.5]**.) (See **ON-BOARD DIAGNOSTIC TEST [MZI 3.7 V6]**.) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See **DTC TABLE [MZR 2.5]**.) (See **DTC TABLE [MZI 3.7 V6]**.)
		No	Go to the next step.
2	**PERFORM INSTRUMENT CLUSTER DTC INSPECTION** • Clear the DTC from the instrument cluster memory using the M-MDS. (See **CLEARING DTC [INSTRUMENT CLUSTER]**.)	Yes	Replace the PCM, then go to the next step. (See **PCM REMOVAL/INSTALLATION [MZR 2.5]**.) (See **PCM REMOVAL/INSTALLATION [MZI 3.7 V6]**.)

	• Switch the ignition to ON and wait for **20 s.** • Perform the instrument cluster DTC inspection using the M-MDS. (See **DTC INSPECTION [INSTRUMENT CLUSTER]**.) • Is the same DTC present?	No	Go to the next step.
3	**VERIFY TROUBLESHOOTING COMPLETED** • Clear the DTC from the instrument cluster memory using the M-MDS. (See **CLEARING DTC [INSTRUMENT CLUSTER]**.) • Switch the ignition to ON and wait for **20 s.** • Perform the instrument cluster DTC inspection using the M-MDS. (See **DTC INSPECTION [INSTRUMENT CLUSTER]**.) • Is the same DTC present?	Yes	Replace the instrument cluster, then go to the next step. (See **INSTRUMENT CLUSTER REMOVAL/ INSTALLATION**.)
		No	Go to the next step.
4	**VERIFY THAT NO OTHER DTCs ARE RECORDED** • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See **DTC TABLE [INSTRUMENT CLUSTER]**.)
		No	DTC troubleshooting completed.

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2	**PERFORM INSTRUMENT CLUSTER DTC INSPECTION** • Clear the DTC from the instrument cluster memory using the M-MDS. (See **CLEARING DTC [INSTRUMENT CLUSTER]**.)	Yes	Replace the PCM, then go to the next step. (See **PCM REMOVAL/INSTALLATION [MZR 2.5]**.) (See **PCM REMOVAL/INSTALLATION [MZI 3.7 V6]**.)

	• Switch the ignition to ON and wait for **20 s.** • Perform the instrument cluster DTC inspection using the M-MDS. (See **DTC INSPECTION [INSTRUMENT CLUSTER]**.) • Is the same DTC present?	No	Go to the next step.
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		No	Go to the next step.
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		No	DTC troubleshooting completed.

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