

2012 - Mazda6 - Transmission/ Transaxle

DTC P1700:00 [AY6A-EL]

DTC P1700:00	Hydraulic pressure unit (at R position)
DETECTION CONDITION	• Conditions: In R position, VSS rotation 500rpm or below • Circumstances: Difference between engine and Input/turbine speed sensor rotations below 150rpm, not in reverse gear detected • Time period: Determined after 1 times lasting 0.8 or more seconds Diagnostic support note: • The MIL does not illuminate. • The AT warning light illuminates. • PENDING CODE is not available. • FREEZE FRAME DATA is available. • The DTC is stored in the TCM memory.
FAIL-SAFE FUNCTION	• Inhibits learning control
POSSIBLE CAUSE	• Deteriorated ATF • ATF level low • Line pressure malfunction • Stall speed malfunction • Solenoid valve malfunction ▪ Shift solenoid A ▪ Shift solenoid B ▪ Shift solenoid E • Clutch/brake malfunction ▪ C3 clutch ▪ B2 brake • ATX malfunction

	• Control valve body malfunction • TCM malfunction
SYSTEM WIRING DIAGRAM	—

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED • Has the FREEZE FRAME DATA been recorded on the repair order?	Yes	Go to the next step.
		No	Record the FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY • Verify related Service Bulletins and/or on-line repair information availability. • Is any related repair information available?	Yes	Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	INSPECT FOR ATF LEAKAGE • Verify that there is no ATF leaking from the transaxle case, and the connecting surfaces of the transaxle and the engine. • Is any ATF leakage verified?	Yes	After repairing the spot where there is ATF leakage, adjust the ATF level, then go to Step 8. (See AUTOMATIC TRANSAXLE FLUID (ATF) LEVEL ADJUSTMENT [AY6A-EL] .)
		No	Go to the next step.
4	INSPECT ATF CONDITION • Inspect the ATF condition. (See AUTOMATIC TRANSAXLE FLUID (ATF) INSPECTION [AY6A-EL] .) • Is it normal?	Yes	Go to the next step.
		No	Replace the ATF, then go to Step 8. (See AUTOMATIC TRANSAXLE FLUID (ATF) REPLACEMENT [AY6A-EL] .)
5	INSPECT LINE PRESSURE • Perform the "Line Pressures Test". (See MECHANICAL SYSTEM TEST [AY6A-EL] .) • Is there any malfunction?	Yes	Repair or replace malfunctioning part according to test result, then go to Step 8.
		No	Go to the next step.

6	INSPECT STALL SPEED - Perform the "Stall Test". (See MECHANICAL SYSTEM TEST [AY6A-EL].) - Is there any malfunction?	Yes	Repair or replace malfunctioning part according to test result, then go to Step 8.
		No	Go to the next step.
7	INSPECT SOLENOID VALVE - Inspect the following solenoid valves: - Shift solenoid A (See SHIFT SOLENOID A INSPECTION [AY6A-EL].) - Shift solenoid B (See SHIFT SOLENOID B INSPECTION [AY6A-EL].) - Shift solenoid E (See SHIFT SOLENOID E INSPECTION [AY6A-EL].) - Is there any malfunction?	Yes	Replace malfunctioning part according to test result, then go to the next step.
		No	Go to the next step.
8	VERIFY DTC TROUBLESHOOTING COMPLETED - Make sure to reconnect all the disconnected connectors. - Clear the DTC using the M-MDS. - Perform the following procedure to ensure that the DTC has been resolved: - Start the engine. - Warm up the engine and transaxle. - Drive the vehicle in R position. - Is the same DTC present?	Yes	Replace the TCM, then go to the next step. (See TCM REMOVAL/ INSTALLATION [AY6A-EL] .)
		No	Go to the next step.
9	VERIFY NO DTCs ARE PRESENT - Perform the "Reading DTCs Procedure". (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [AY6A-EL].) - Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [AY6A-EL] .)
		No	DTC troubleshooting completed.

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