

2012 - Mazda6 - Transmission/ Transaxle

DTC P2806:00 [AY6A-EL]

DTC P2806:00	Neutral position learning (Not performed yet)
DETECTION CONDITION	• Conditions: Diagnosis tester request "N position adaptation" • Circumstances: "N position adaptation" not performed • Time period: Determined after 1 time 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	• Locks start lock signal
POSSIBLE CAUSE	• Not set "N" position when writing condition • Selector cable mis-adjustment
SYSTEM WIRING DIAGRAM	—

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED	YesGo to the next step.
	• Has the FREEZE FRAME DATA been recorded on the repair order?	No Record the FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY	YesPerform repair or diagnosis according to the available repair information.
	• Verify related Service Bulletins	• If the vehicle is not

	and/or on-line repair information availability. Is any related repair information available?		repaired, go to the next step.
		No	Go to the next step.
3	INSPECT TR SWITCH - Inspect the TR switch. (See TRANSAXLE RANGE (TR) SWITCH INSPECTION [AY6A-EL].) - Is there any malfunction?	Yes	Adjust or replace the TR switch or selector cable, then go to the next step. (See TCM NEUTRAL POSITION LEARNING [AY6A-EL].) (See TCM REMOVAL/ INSTALLATION [AY6A-EL].) (See AUTOMATIC TRANSAXLE SHIFT MECHANISM REMOVAL/ INSTALLATION.)
		No	Go to the next step.
4	VERIFY DTC TROUBLESHOOTING COMPLETED - Make sure to reconnect all the disconnected connectors. - Clear the DTC using the M-MDS. - Switch the ignition OFF (LOCK), then switch it ON. - Verify the DTCs recorded in the TCM. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [AY6A-EL].) - Is the same DTC present?	Yes	Repeat Step 3.
		No	Go to the next step.
5	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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