

2012 - Mazda6 - Transmission/ Transaxle

NO.2 VEHICLE MOVES IN N POSITION [AY6A-EL]

2	Vehicle moves in N position
DESCRIPTION	- Vehicle creeps in N position. - Vehicle creeps if brake pedal is not depressed in N position.
POSSIBLE CAUSE	- If the vehicle moves in N position, basically, the malfunction is in the ATX. Since a malfunction in the sensor circuit or output circuit is the cause of the malfunction in the ATX, inspect the sensors, output circuit, and the related wiring harnesses. - Clutch burnt (C1 clutch, C3 clutch, One-way clutch) - Line pressure low - Shift solenoid C malfunction - Shift solenoid E malfunction - Line pressure control solenoid malfunction - Control valve body malfunction - Selector lever position disparity (Although the selector indicator shows N position, the hydraulic circuit shows D or R position) - N position learning is not performed NOTE: - Before following the troubleshooting steps, make sure that the Automatic Transaxle On-Board Diagnostic and Automatic Transaxle Basic Inspection are conducted. (See BASIC INSPECTION [AY6A-EL].)

Diagnostic procedure

STEP	INSPECTION	ACTION
1	INSPECT SELECTOR LEVER AND SELECTOR CABLE ADJUSTMENT FOR MALFUNCTION Does the vehicle creep when selector	Yes Go to the next step.
		No Inspect and adjust the selector lever and

	lever is moved slightly in N position?		cable. (See SELECTOR LEVER INSPECTION.) (See AUTOMATIC TRANSAXLE SHIFT MECHANISM REMOVAL/ INSTALLATION.) Perform N position learning. (See TCM REMOVAL/ INSTALLATION [AY6A-EL].)
2	INSPECT IF MALFUNCTION CAUSE IS SHIFT SOLENOIDS OR TRANSAXLE - Inspect following solenoid. - Shift solenoid C (See SHIFT SOLENOID C INSPECTION [AY6A-EL].) - Shift solenoid D (See SHIFT SOLENOID D INSPECTION [AY6A-EL].) - Are these solenoids normal?	Yes	Replace the transaxle. (See AUTOMATIC TRANSAXLE REMOVAL/ INSTALLATION [AY6A-EL].)
		No	Inspect the coupler component. If normal, replace the control valve body. (See CONTROL VALVE BODY REMOVAL/ INSTALLATION [AY6A-EL].)
3	- Verify test results. - If normal, return to the diagnostic index to service any additional symptoms. - If malfunction remains, inspect the related Service Bulletins and/or On-line Repair Information and perform repair or diagnosis. - If the vehicle is repaired, troubleshooting completed. - If the vehicle is not repaired or additional diagnostic information is not available, replace the TCM.		

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