

2012 - Mazda6 - Transmission/ Transaxle

NO.31 M POSITION INDICATOR LIGHT DOES NOT ILLUMINATE IN M POSITION/ M POSITION INDICATOR LIGHT ILLUMINATES IN D POSITION [AY6A-EL]

31	M position indicator light does not illuminate in M position/ M position indicator light illuminate in D position
DESCRIPTION	M position indicator light in instrument cluster dose not illuminate in M position or M position indicator light in instrument cluster in D position with the ignition at ON.
POSSIBLE CAUSE	- M position switch or related wiring harness malfunction. - Multiplex communication system malfunction (Shift position signal is incorrect.) - Between TCM and instrument cluster 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	VERIFY IF MALFUNCTION CAUSE IS MULTIPLEX COMMUNICATION SYSTEM - Retrieve any instrument cluster DTCs using the M-MDS. (See DTC INSPECTION [INSTRUMENT CLUSTER].) - Are there any CAN communication DTCs displayed?	Yes Go to appropriate the DTC inspection. (See DTC TABLE [MULTIPLEX COMMUNICATION SYSTEM] .)
		No Go to the next step.
2	DETERMINE IF MALFUNCTION CAUSE IS M POSITION SWITCH SIGNAL OR INSTRUMENT CLUSTER	Yes Go to Step 4.

	- Access the TCM PID MNL SW using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM PID/ DATA MONITOR INSPECTION [AY6A-EL].) - Monitor the MNL SW PID with move the selector lever to all position. - Does the MNL SW PID indicate properly?	No	Go to the next step.
3	VERIFY IF MALFUNCTION CAUSE IS M POSITION SWITCH OR M POSITION SWITCH RELATED WIRING HARNESS - Inspect the M position switch. (See M POSITION SWITCH INSPECTION [AY6A-EL].) - Is the M position switch normal?	Yes	Inspect for open circuit in wiring harness between TCM terminal A7 and selector lever component terminal A. Repair or replace any malfunctioning part.
		No	Replace the M position switch. (See M POSITION SWITCH REMOVAL/ INSTALLATION [AY6A-EL] .)
4	INSPECT INSTRUMENT CLUSTER FOR MALFUNCTION - Inspect the instrument cluster. (See INSTRUMENT CLUSTER INSPECTION.) - Is instrument cluster normal?	Yes	Go to the next step.
		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
5	- Verify the test results. - If normal, return to the diagnostic index to service any additional symptoms. - If the malfunction remains, inspect the related Service Bulletins and/or On-line Repair Information and perform repair or diagnosis. - If the vehicle is repaired, troubleshooting is completed. - If the vehicle is not repaired or additional diagnostic information is not available, replace the TCM.		

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POSSIBLE CAUSE	- M position switch or related wiring harness malfunction. - Multiplex communication system malfunction (Shift position signal is incorrect.) - Between TCM and instrument cluster 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].)

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	- Access the TCM PID MNL SW using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM PID/ DATA MONITOR INSPECTION [AY6A-EL].) - Monitor the MNL SW PID with move the selector lever to all position. - Does the MNL SW PID indicate properly?	No	Go to the next step.
3	VERIFY IF MALFUNCTION CAUSE IS M POSITION SWITCH OR M POSITION SWITCH RELATED WIRING HARNESS - Inspect the M position switch. (See M POSITION SWITCH INSPECTION [AY6A-EL].) - Is the M position switch normal?	Yes	Inspect for open circuit in wiring harness between TCM terminal A7 and selector lever component terminal A. Repair or replace any malfunctioning part.
		No	Replace the M position switch. (See M POSITION SWITCH REMOVAL/ INSTALLATION [AY6A-EL] .)
4	INSPECT INSTRUMENT CLUSTER FOR MALFUNCTION - Inspect the instrument cluster. (See INSTRUMENT CLUSTER INSPECTION.) - Is instrument cluster normal?	Yes	Go to the next step.
		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
5	- Verify the test results. - If normal, return to the diagnostic index to service any additional symptoms. - If the malfunction remains, inspect the related Service Bulletins and/or On-line Repair Information and perform repair or diagnosis. - If the vehicle is repaired, troubleshooting is completed. - If the vehicle is not repaired or additional diagnostic information is not available, replace the TCM.		