

2012 - Mazda6 - Transmission/ Transaxle

NO.30 DOES NOT DOWNSHIFT IN M POSITION [FS5A-EL]

30	Does not downshift in M position
DESCRIPTION	Gear position indicator light in instrument cluster illuminates, but the vehicle does not downshift when the selector lever is pushed to “-” side.
POSSIBLE CAUSE	- Down switch (built-in selector lever component) or related wiring harness malfunction NOTE: - Before following the troubleshooting steps, make sure that the Automatic Transaxle On-board Diagnostic and Automatic Transaxle Basic Inspection are conducted.

Diagnostic procedure

STEP	INSPECTION	ACTION
1	DETERMINE IF MALFUNCTION CAUSE IS M POSITION SWITCH OR DOWN SWITCH - Verify that the shift position indicator in the instrument cluster is in the M position. - Is the shift position indicator in the instrument cluster normal?	Yes Go to the next step.
		No Perform the symptom troubleshooting “M position indicator light dose not illuminate in M position/M position indicator light illuminate in D position”. (See NO.31 M POSITION INDICATOR LIGHT DOES NOT ILLUMINATE IN M POSITION/ M POSITION INDICATOR LIGHT ILLUMINATES IN D POSITION [FS5A-EL] .)
2	VERIFY IF MALFUNCTION CAUSE IS DOWN SWITCH SIGNAL OR INSTRUMENT CLUSTER Inspect the DWN SW PID value using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM PID/ DATA MONITOR)	Yes Inspect the instrument cluster. (See INSTRUMENT CLUSTER INSPECTION .) Replace the instrument cluster if necessary. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
		No Inspect the down switch.

	INSPECTION [FS5A-EL] .) • Is the DWN SW PID value normal?	(See DOWN SWITCH INSPECTION [FS5A-EL] .) If the down switch is normal, inspect for continuity between the selector lever component terminal C and TCM terminal 2F.
3	• 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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