

2012 - Mazda6 - Transmission/ Transaxle

BASIC INSPECTION [AY6A-EL]

STEP	INSPECTION	ACTION	
1	- Measure the battery voltage. - Is the battery voltage 10.0—14.0 V?	Yes	Go to the next step.
		No	Replace or recharge the battery. (See BATTERY RECHARGING [MZI 3.7 V6] .)
2	- Inspect the TCM related harnesses, connectors and fuses. - Are they normal?	Yes	Go to the next step.
		No	Repair or replace any malfunctioning parts according to the inspection result.
3	- Switch the ignition to ON. - When the selector lever is moved, does the gear position indicator light indication correspond to the selector lever position? - Also, when other positions are selected from N or P during idling, does the vehicle move within 1-2 s?	Yes	Go to the next step.
		No	Inspect TR switch (built in TCM) and the adjustment of selector cable and TR switch. Repair or replace malfunctioning parts. (See TRANSAXLE RANGE (TR) SWITCH INSPECTION [AY6A-EL] .) (See AUTOMATIC TRANSAXLE SHIFT MECHANISM REMOVAL/ INSTALLATION.) (See TCM REMOVAL/ INSTALLATION [AY6A-EL] .) If the selector cable and TR switch are normal, go to the next step.
4	- Perform the line pressure test. - Is the line pressure within the specified?	Yes	Perform the symptom troubleshooting and follow the procedures.
		No	Repair or replace any malfunctioning parts according to the inspection result.
5	- Perform the road test. - Is the ATX operating normally?	Yes	Go to the next step.

		No	Repair or replace any malfunctioning parts according to the inspection result.
6	- Perform the stall test. - Is the stall speed within the specified?	Yes	Go to the next step.
		No	Repair or replace any malfunctioning parts according to the inspection result.
7	- Perform the time lag test. - Is the ATX operating normally?	Yes	Go to the next step.
		No	Repair or replace any malfunctioning parts according to the inspection result.
8	- Inspect the ATF color and condition. (See AUTOMATIC TRANSAXLE FLUID (ATF) INSPECTION [AY6A-EL].) - Are the ATF color and odor normal?	Yes	Go to the next step.
		No	Repair or replace any malfunctioning parts according to the inspection result. Flush the ATX and cooler line if necessary.
9	- Inspect the value at the following PCM and TCM PIDs using the M-MDS. (See PCM INSPECTION [MZI 3.7 V6].) (See ON-BOARD DIAGNOSTIC SYSTEM PID/ DATA MONITOR INSPECTION [AY6A-EL].) PCM PIDs: - APP1 - APP2 - CHT - RPM - VPWR TCM PIDs: - TSS - OSS - TFT - TFTV - TR - THOP - MNL SW	Yes	Perform the symptom troubleshooting and follow the procedures.
		No	Repair or replace any malfunctioning parts according to the inspection result.

	▪ UP_SW ▪ DWN_SW ▪ BOO • Are the PID values normal?	
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