2012 - Mazda6 - Transmission/ Transaxle

NO.23 TRANSAXLE OVERHEATS [AY6A-EL]

23	**Transaxle overheats**
DESCRIPTION	• Burnt smell emitted from transaxle. • Smoke emitted from transaxle.
POSSIBLE CAUSE	• The malfunction is restricted to the hindrance of coolant at the oil cooler. In addition, overheating of the transaxle may be caused by a malfunction of the TFT sensor. ▪ Line pressure low • ATF level low • Incorrect accelerator opening signal • Line pressure control solenoid malfunction ▪ Oil cooler malfunction (Foreign material mixed in with ATF) ▪ TFT sensor malfunction ▪ Excessive amount of ATF **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 TFT SENSOR AND RELATED CIRCUIT FOR MALFUNCTION** • Inspect the TFT sensor and related wiring harness: vibration, intermittent open/short circuit (See **TRANSAXLE FLUID TEMPERATURE (TFT)**	Yes	Go to the next step.
		No	Repair or replace part if necessary.

	SENSOR INSPECTION [AY6A-EL].) • Is it normal?		
2	**INSPECT LINE PRESSURE CONTROL SOLENOID FOR MALFUNCTION** • Inspect the line pressure control solenoid. (See **LINE PRESSURE CONTROL SOLENOID INSPECTION [AY6A-EL]**.) • Is it normal?	Yes	Go to the next step.
		No	Inspect the coupler component. If normal, replace the control valve body. (See **CONTROL VALVE BODY REMOVAL/ INSTALLATION [AY6A-EL]**.)
3	**VERIFY IF MALFUNCTION CAUSE IS OIL COOLER PIPE OR TRANSAXLE** • Inspect for bending, damage, corrosion or kinks of the oil cooler pipes. • Are oil cooler pipes normal?	Yes	Replace the transaxle. (See **AUTOMATIC TRANSAXLE REMOVAL/ INSTALLATION [AY6A-EL]**.)
		No	Replace any malfunctioning parts.
4	• 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.		

< Previous **Next >**

Back to Top

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< Previous **Next >**

Back to Top