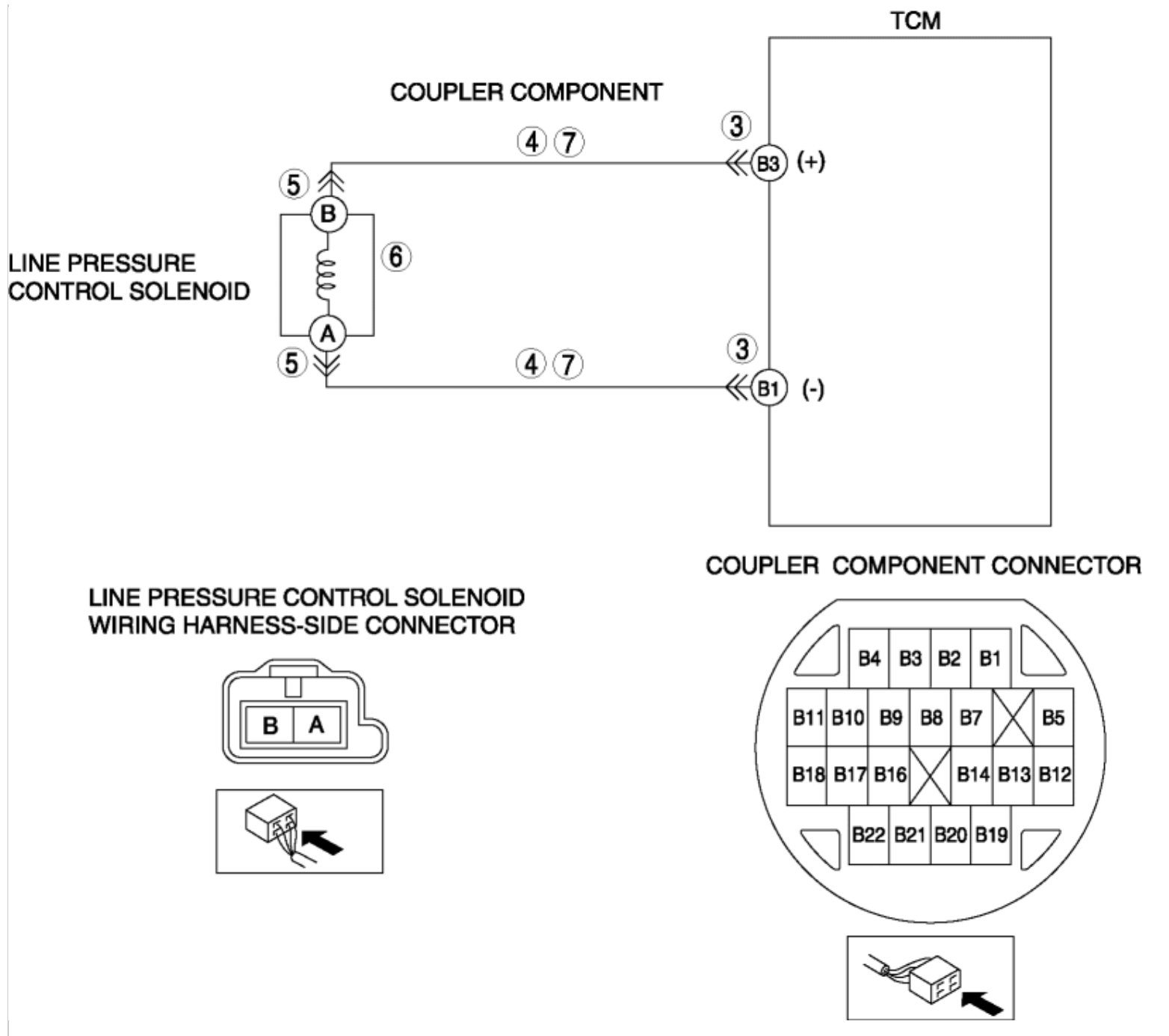


2012 - Mazda6 - Transmission/ Transaxle

DTC P0962:00 [AY6A-EL]

DTC P0962:00	Line pressure control solenoid circuit low
DETECTION CONDITION	• Conditions: TCM communication normal • Circumstances: line pressure control solenoid system disconnection or short circuit to GND detected • Time period: Determined after 5 consecutive times lasting 0.1 or more seconds Diagnostic support note: • The MIL illuminates if the TCM detects the above malfunction condition during the first drive cycle. • The AT warning light illuminates. • PENDING CODE is not available. • FREEZE FRAME DATA is available. • The DTC is stored in the TCM memory.
FAIL-SAFE FUNCTION	• Emergency mode 3
POSSIBLE CAUSE	• Coupler component connector or terminal malfunction • Line pressure control solenoid connector or terminal malfunction • Short to GND in wiring harness between line pressure control solenoid terminal B and TCM terminal B3 • Short to GND in wiring harness between line pressure control solenoid terminal A and TCM terminal B1 • Open circuit between line pressure control solenoid terminal B and TCM terminal B3 • Open circuit between line pressure control solenoid terminal A and TCM terminal B1 • Solenoid valve malfunction ▪ Line pressure control solenoid • TCM malfunction



Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED Has the FREEZE FRAME DATA been recorded on the repair order?	Yes Go to the next step. No Record the FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY Verify related Service Bulletins and/or on-line repair information availability.	Yes Perform repair or diagnosis according to the available repair information. If the vehicle is not

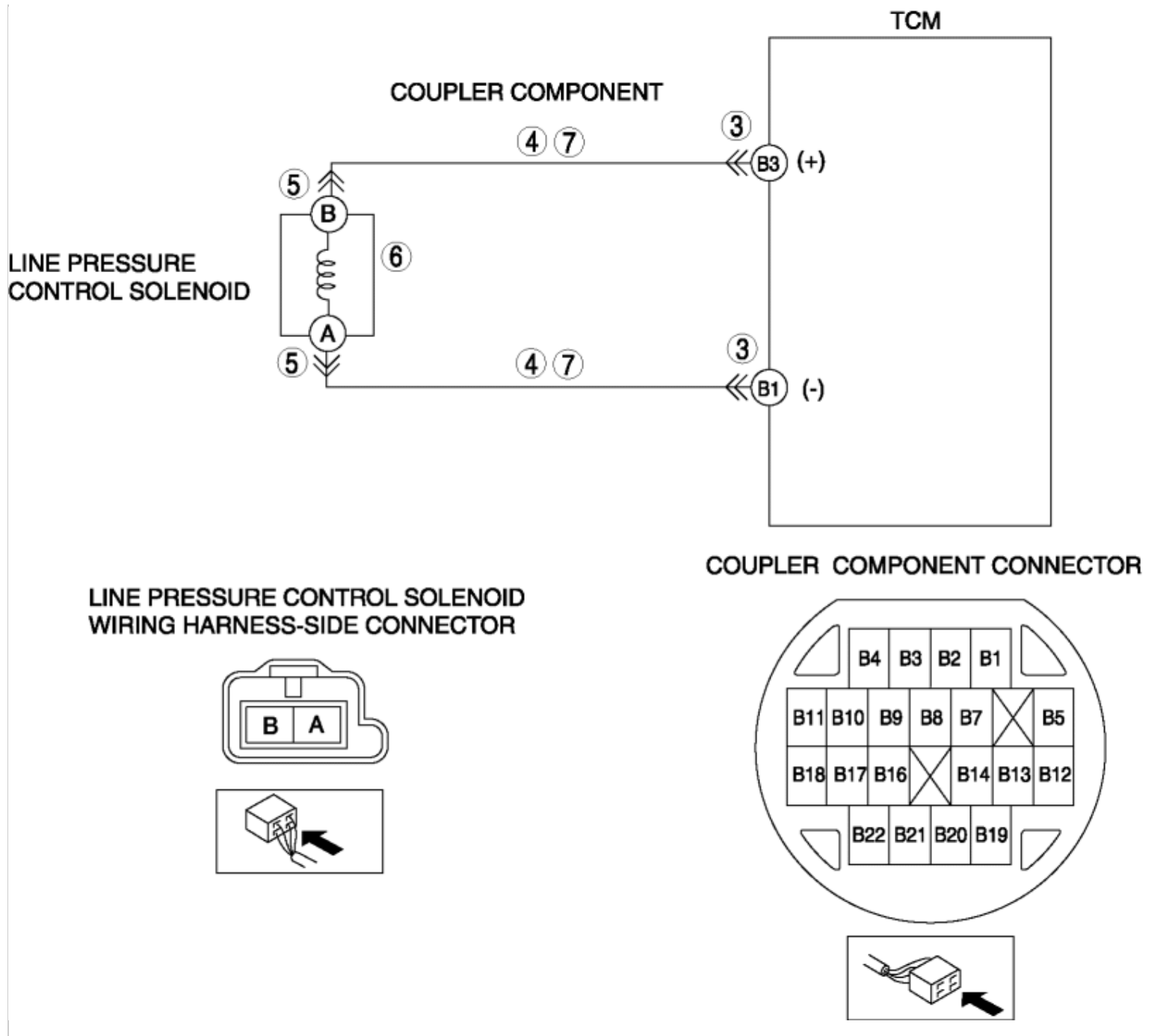
	Is any related repair information available?		repaired, go to the next step.
		No	Go to the next step.
3	INSPECT COUPLER COMPONENT CONNECTOR FOR POOR CONNECTION - Switch the ignition OFF (LOCK). - Remove the TCM. (See TCM REMOVAL/ INSTALLATION [AY6A-EL].) - Inspect for poor connection (such as damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes	Repair or replace the terminal, then go to Step 8.
		No	Go to the next step.
4	INSPECT LINE PRESSURE CONTROL SOLENOID CIRCUIT FOR SHORT TO GND - Switch the ignition OFF (LOCK). - Inspect for continuity between the following circuits: - Coupler component terminal B3 (wiring harness-side) and body GND - Coupler component terminal B1 (wiring harness-side) and body GND - Is there continuity?	Yes	Repair or replace the wiring harness for a possible short to GND, then go to Step 8.
		No	Go to the next step.
5	INSPECT LINE PRESSURE CONTROL SOLENOID CONNECTOR FOR POOR CONNECTION - Switch the ignition OFF (LOCK). - Disconnect the line pressure control solenoid connector. - Inspect for poor connection (such as damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes	Repair or replace the terminal, then go to Step 8.
		No	Go to the next step.
6	INSPECT LINE PRESSURE CONTROL SOLENOID - Inspect the line pressure control solenoid. (See LINE PRESSURE CONTROL SOLENOID INSPECTION [AY6A-EL].) - Is there any malfunction?	Yes	Replace the control valve body, then go to Step 8. (See CONTROL VALVE BODY REMOVAL/ INSTALLATION [AY6A-EL] .)
		No	Go to the next step.
7	INSPECT LINE PRESSURE CONTROL SOLENOID CIRCUIT FOR OPEN CIRCUIT Switch the ignition OFF (LOCK).	Yes	Go to the next step.
		No	Repair or replace the wiring harness

	- Inspect for continuity between the following circuits: - Line pressure control solenoid terminal B (wiring harness-side) and coupler component terminal B3 (wiring harness-side) - Line pressure control solenoid terminal A (wiring harness-side) and coupler component terminal B1 (wiring harness-side) - Is there continuity?		for a possible open circuit, then go to the next step.
8	VERIFY DTC TROUBLESHOOTING COMPLETED - Make sure to reconnect all the disconnected connectors. - Clear the DTC using the M-MDS. - Perform the following procedure to ensure that the DTC has been resolved: - Start the engine. - Warm up the engine and transaxle. - Drive the vehicle in D position and make sure that the gears shift smoothly from 1GR to 6GR. - Is the same DTC present?	Yes	Replace the TCM, then go to the next step. (See TCM REMOVAL/ INSTALLATION [AY6A-EL] .)
		No	Go to the next step.
9	VERIFY NO DTCs ARE PRESENT - Perform the "Reading DTCs Procedure". (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [AY6A-EL] .) - Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [AY6A-EL] .)
		No	DTC troubleshooting completed.

2012 - Mazda6 - Transmission/ Transaxle

DTC P0962:00 [AY6A-EL]

DTC P0962:00	Line pressure control solenoid circuit low
DETECTION CONDITION	• Conditions: TCM communication normal • Circumstances: line pressure control solenoid system disconnection or short circuit to GND detected • Time period: Determined after 5 consecutive times lasting 0.1 or more seconds Diagnostic support note: • The MIL illuminates if the TCM detects the above malfunction condition during the first drive cycle. • The AT warning light illuminates. • PENDING CODE is not available. • FREEZE FRAME DATA is available. • The DTC is stored in the TCM memory.
FAIL-SAFE FUNCTION	• Emergency mode 3
POSSIBLE CAUSE	• Coupler component connector or terminal malfunction • Line pressure control solenoid connector or terminal malfunction • Short to GND in wiring harness between line pressure control solenoid terminal B and TCM terminal B3 • Short to GND in wiring harness between line pressure control solenoid terminal A and TCM terminal B1 • Open circuit between line pressure control solenoid terminal B and TCM terminal B3 • Open circuit between line pressure control solenoid terminal A and TCM terminal B1 • Solenoid valve malfunction ▪ Line pressure control solenoid • TCM malfunction



Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED Has the FREEZE FRAME DATA been recorded on the repair order?	Yes Go to the next step. No Record the FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY Verify related Service Bulletins and/or on-line repair information availability.	Yes Perform repair or diagnosis according to the available repair information. If the vehicle is not

	Is any related repair information available?		repaired, go to the next step.
		No	Go to the next step.
3	INSPECT COUPLER COMPONENT CONNECTOR FOR POOR CONNECTION - Switch the ignition OFF (LOCK). - Remove the TCM. (See TCM REMOVAL/ INSTALLATION [AY6A-EL].) - Inspect for poor connection (such as damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes	Repair or replace the terminal, then go to Step 8.
		No	Go to the next step.
4	INSPECT LINE PRESSURE CONTROL SOLENOID CIRCUIT FOR SHORT TO GND - Switch the ignition OFF (LOCK). - Inspect for continuity between the following circuits: - Coupler component terminal B3 (wiring harness-side) and body GND - Coupler component terminal B1 (wiring harness-side) and body GND - Is there continuity?	Yes	Repair or replace the wiring harness for a possible short to GND, then go to Step 8.
		No	Go to the next step.
5	INSPECT LINE PRESSURE CONTROL SOLENOID CONNECTOR FOR POOR CONNECTION - Switch the ignition OFF (LOCK). - Disconnect the line pressure control solenoid connector. - Inspect for poor connection (such as damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes	Repair or replace the terminal, then go to Step 8.
		No	Go to the next step.
6	INSPECT LINE PRESSURE CONTROL SOLENOID - Inspect the line pressure control solenoid. (See LINE PRESSURE CONTROL SOLENOID INSPECTION [AY6A-EL].) - Is there any malfunction?	Yes	Replace the control valve body, then go to Step 8. (See CONTROL VALVE BODY REMOVAL/ INSTALLATION [AY6A-EL] .)
		No	Go to the next step.
7	INSPECT LINE PRESSURE CONTROL SOLENOID CIRCUIT FOR OPEN CIRCUIT Switch the ignition OFF (LOCK).	Yes	Go to the next step.
		No	Repair or replace the wiring harness

	- Inspect for continuity between the following circuits: - Line pressure control solenoid terminal B (wiring harness-side) and coupler component terminal B3 (wiring harness-side) - Line pressure control solenoid terminal A (wiring harness-side) and coupler component terminal B1 (wiring harness-side) - Is there continuity?		for a possible open circuit, then go to the next step.
8	VERIFY DTC TROUBLESHOOTING COMPLETED - Make sure to reconnect all the disconnected connectors. - Clear the DTC using the M-MDS. - Perform the following procedure to ensure that the DTC has been resolved: - Start the engine. - Warm up the engine and transaxle. - Drive the vehicle in D position and make sure that the gears shift smoothly from 1GR to 6GR. - Is the same DTC present?	Yes	Replace the TCM, then go to the next step. (See TCM REMOVAL/ INSTALLATION [AY6A-EL] .)
		No	Go to the next step.
9	VERIFY NO DTCs ARE PRESENT - Perform the "Reading DTCs Procedure". (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [AY6A-EL] .) - Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [AY6A-EL] .)
		No	DTC troubleshooting completed.