DTC P0882:00 [FW6A-EL, FW6AX-EL]

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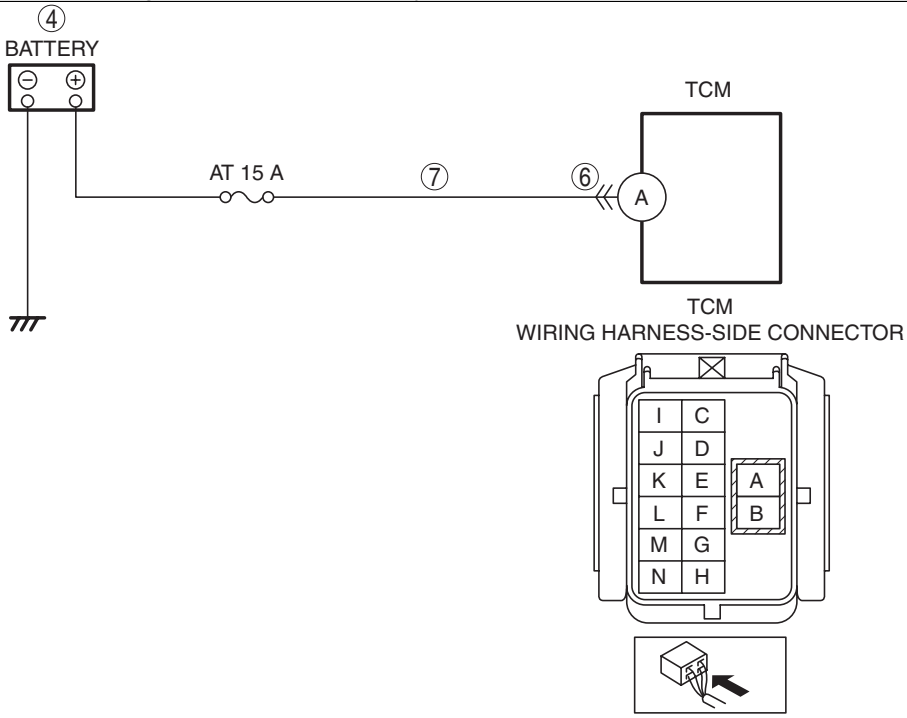
DTC P0882:00	TCM power supply voltage low
DETECTION CONDITION	• Under the following conditions, the TCM power supply voltage is **8—10.5 V or less** (varies with ATF temperature): — **5 s or more** has elapsed or battery voltage exceeds **11 V or more** for **0.2 s** since engine speed increases **−200 rpm or more** of target idle speed. — Selector lever position is D or R position. **Diagnostic support note** • The check engine light illuminates if the TCM detects the above malfunction condition during the first drive cycle. • The automatic transaxle warning light does not illuminate. • PENDING CODE is available. • FREEZE FRAME DATA is available. • DTC is stored in the TCM memory.
FAIL-SAFE FUNCTION	• Set to emergency mode. • Inhibits learning control. • Inhibits manual mode. • Inhibits neutral idle control. • Inhibits i-stop control. • Inhibits AAS.
POSSIBLE CAUSE	• PCM DTC is stored. • Battery malfunction • Generator malfunction • TCM connector or terminals malfunction • TCM power supply circuit malfunction — Short to ground in wiring harness between AT 15 A fuse and TCM terminal A — AT 15 A fuse malfunction — Open circuit in wiring harness between battery positive terminal and TCM terminal A
SYSTEM WIRING DIAGRAM	

Diagnostic procedure

STEP	INSPECTION		ACTION
1	**VERIFY FREEZE FRAME DATA/SNAPSHOT DATA HAS BEEN RECORDED** • Has the freeze frame data/snapshot data been recorded on the repair order?	Yes	Go to the next step.
		No	Record the freeze frame data/snapshot data on the repair order, then go to the next step.

STEP	INSPECTION		ACTION
2	**VERIFY RELATED SERVICE INFORMATION AVAILABILITY** • Verify related Service Information availability. • Is any related Service Information available?	Yes	Perform repair or diagnosis according to the available Service Information. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	**VERIFY PCM DTC** • Perform the PCM DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No	Go to the next step.
4	**INSPECT BATTERY** • Inspect the battery. (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) • Is there any malfunction?	Yes	Recharge or replace the battery, then go to Step 8. (See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No	Go to the next step.
5	**INSPECT GENERATOR** • Inspect the generator. (See GENERATOR INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Is there any malfunction?	Yes	Replace the generator, then go to Step 8. (See GENERATOR REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No	Go to the next step.
6	**INSPECT TCM CONNECTOR AND TERMINALS** • Switch the ignition off. • Disconnect the TCM connector. • Visually inspect the TCM connector and terminals. • Is there any malfunction?	Yes	Repair or replace the connector and/or terminals, then go to Step 8.
		No	Go to the next step.
7	**INSPECT TCM POWER SUPPLY CIRCUIT** • Always reconnect all disconnected connectors. • Access the PID VPWR using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM PID/DATA MONITOR INSPECTION [FW6A-EL, FW6AX-EL].) • Is the PID value **B+**?	Yes	Go to the next step.
		No	Inspect the AT 15 A fuse. • If the fuse is burnt out: — Refer to the wiring diagram and verify whether or not there is a common connector between AT 15 A fuse and TCM terminal A. **If there is a common connector:** • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground. • Repair or replace the malfunctioning part. **If there is no common connector:** • Repair or replace the wiring harness which has a short to ground. • Replace the fuse. • If the fuse is deteriorated: — Replace the malfunctioning fuse. • If the fuse is normal: — Refer to the wiring diagram and verify whether or not there is a common connector between battery positive terminal and TCM terminal A. **If there is a common connector:** • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit. • Repair or replace the malfunctioning part. **If there is no common connector:** • Repair or replace the wiring harness which has an open circuit. Go to the next step.

STEP	INSPECTION		ACTION
8	**VERIFY DTC TROUBLESHOOTING COMPLETED** • Always reconnect all disconnected connectors. • Clear the DTC using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FW6A-EL, FW6AX-EL].) • Perform the following procedure to ensure that the DTC has been resolved: 1. Drive the vehicle for **5 s or more** under the following condition: • Selector lever position: D or R position • Perform the DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FW6A-EL, FW6AX-EL].) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [FW6A-EL, FW6AX-EL].)
		No	DTC troubleshooting completed.