DTC P0C2C:00 [FW6A-EL, FW6AX-EL]

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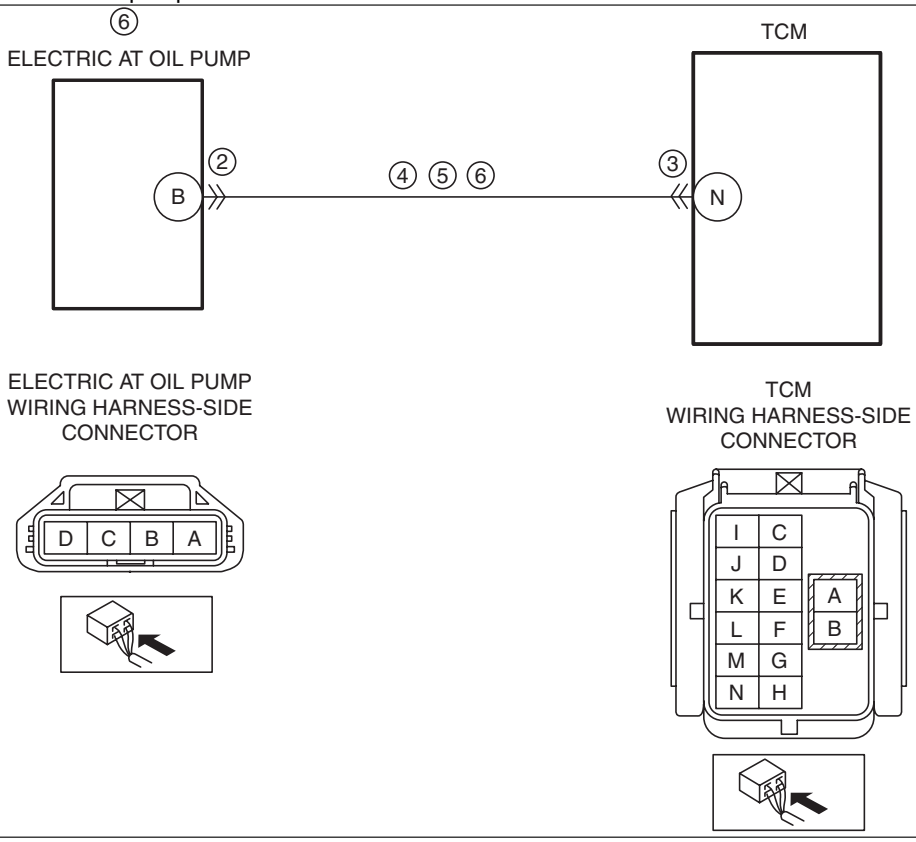
DTC P0C2C:00	Electric AT oil pump rotation malfunction
DETECTION CONDITION	• The actual electric AT oil pump rotation speed under the following conditions is **100 rpm or less** for a continuous **10 s**: — Electric AT oil pump rotation speed command value is **500 rpm or more**. — Electric AT oil pump relay is ON. — DTC P181F:00 is not recorded. **Diagnostic support note** • The MIL does not illuminate. • The shift position indicator light does not illuminate. • PENDING CODE is available. • FREEZE FRAME DATA is not available. • DTC is stored in the TCM memory.
FAIL-SAFE FUNCTION	• Inhibits i-stop control.
POSSIBLE CAUSE	• Electric AT oil pump connector or terminals malfunction • TCM connector or terminals malfunction • Short to ground in wiring harness between electric AT oil pump terminal B and TCM terminal N • Short to power supply in wiring harness between electric AT oil pump terminal B and TCM terminal N • Open circuit in wiring harness between electric AT oil pump terminal B and TCM terminal N • Electric AT oil pump malfunction



Diagnostic procedure

STEP	INSPECTION		ACTION
1	**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.

STEP	INSPECTION		ACTION
2	**INSPECT ELECTRIC AT OIL PUMP CONNECTOR CONDITION** • Switch the ignition off. • Disconnect the electric AT oil pump connector. • Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector and/or terminals, then go to Step 7.
		No	Go to the next step.
3	**INSPECT TCM CONNECTOR CONDITION** • 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 7.
		No	Go to the next step.
4	**INSPECT ELECTRIC AT OIL PUMP CIRCUIT FOR SHORT TO GROUND** • Verify that the electric AT oil pump and TCM connectors are disconnected. • Inspect for continuity between electric AT oil pump terminal B (wiring harness-side) and body ground. • Is there continuity?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between electric AT oil pump terminal B and TCM terminal N. **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. Go to Step 7.
		No	Go to the next step.
5	**INSPECT ELECTRIC AT OIL PUMP CIRCUIT FOR SHORT TO POWER SUPPLY** • Verify that the electric AT oil pump and TCM connectors are disconnected. • Switch the ignition ON (engine on). • Measure the voltage at the electric AT oil pump terminal B (wiring harness-side). • Is the voltage **0 V**?	Yes	Go to the next step.
		No	Refer to the wiring diagram and verify whether or not there is a common connector between electric AT oil pump terminal B and TCM terminal N. **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 power supply. • Repair or replace the malfunctioning part. **If there is no common connector:** • Repair or replace the wiring harness which has a short to power supply. Go to Step 7.
6	**INSPECT ELECTRIC AT OIL PUMP CIRCUIT FOR OPEN CIRCUIT** • Verify that the electric AT oil pump and TCM connectors are disconnected. • Switch the ignition off. • Visually inspect the wiring harness between electric AT oil pump terminal B (wiring harness-side) and TCM terminal N (wiring harness-side). • Is there any malfunction?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between electric AT oil pump terminal B and TCM terminal N. **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.
		No	Replace the electric AT oil pump, then go to the next step. (See ELECTRIC AT OIL PUMP REMOVAL/INSTALLATION [FW6A-EL, FW6AX-EL].)

STEP	INSPECTION		ACTION
7	**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. Operates the i-stop. • 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.