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

id050227832600

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 MilL 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  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  Electric AT oil pump malfunction  Electric AT oil pump malfunction  TCM  Electric AT oil pump malfunction  Electric AT oil pump malfunction  Electric AT oil pump malfunction  TCM  Electric AT oil pump malfunction  Electric AT oil pump malfunction  Electric AT oil pump malfunction  TCM  WIRING HARNESS-SIDE  CONNECTOR	DTC P0C2C:	Electric AT oil pump rotation r	malfunction	
POSSIBLE CAUSE  POSSIBLE CAUSE  • Electric AT oil pump 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  ©  ELECTRIC AT OIL PUMP  WIRING HARNESS-SIDE  CONNECTOR  WIRING HARNESS-SIDE  CONNECTOR  WIRING HARNESS-SIDE  CONNECTOR	DETECTION	continuous 10 s:  — Electric AT oil pump rotatio  — Electric AT oil pump relay i  — DTC P181F:00 is not recor  Diagnostic support note  • The MIL does not illuminate.  • The shift position indicator light  • PENDING CODE is available.  • FREEZE FRAME DATA is not	on speed command value is ON. rded. t does not illuminate. available.	
POSSIBLE CAUSE  • 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  • TCM  ELECTRIC AT OIL PUMP  WIRING HARNESS-SIDE  CONNECTOR  • TCM  WIRING HARNESS-SIDE  CONNECTOR  • TCM  WIRING HARNESS-SIDE  CONNECTOR		Inhibits i-stop control.		
ELECTRIC AT OIL PUMP WIRING HARNESS-SIDE CONNECTOR  TCM WIRING HARNESS-SIDE CONNECTOR  TCM WIRING HARNESS-SIDE CONNECTOR		<ul> <li>TCM connector or terminals ma</li> <li>Short to ground in wiring harne</li> <li>Short to power supply in wiring</li> <li>Open circuit in wiring harness to</li> </ul>	alfunction ss between electric AT oi harness between electric between electric AT oil pu	il pump terminal B and TCM terminal N c AT oil pump terminal B and TCM terminal N
M G N H		ELECTRIC AT OIL PUMP WIRING HARNESS-SIDE CONNECTOR	4 5 6	TCM WIRING HARNESS-SIDE CONNECTOR  I C J D K E L F M G

Diagnostic procedure

STEP	INSPECTION		ACTION
1	VERIFY RELATED SERVICE INFORMATION	Yes	Perform repair or diagnosis according to the available
	AVAILABILITY		Service Information.
	Verify related Service Information availability.		If the vehicle is not repaired, go to the next step.
	Is any related Service Information available?	No	Go to the next step.

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?  3 INSPECT TCM CONNECTOR CONDITION • Disconnect the TCM connector and terminals. • Is there any malfunction?  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 Repair or replace the connector Step 7.  No Go to the next step.  Yes Repair or replace the connector Step 7.  No Go to the next step.  Yes Repair or replace the connector Step 7.  No Go to the next step.  Inspect for continuiton?  Yes Refer to the wiring diagram and is a common connector between terminal B and TCM terminal B is a common connector and the ted damage, or pin disconnection harness for a short to ground. • Repair or replace the connector Step 7.  No Go to the next step.  President or replace the connector Step 7.  Refer to the wiring diagram and is a common connector between terminal B and TCM terminal B is a common connector between terminal B and TCM terminal B and TCM terminal B or common connector and the ted amage, or pin disconnection harness for a short to ground. • Repair or replace the connector step 7.	and/or terminals, then go to  I verify whether or not there n electric AT oil pump or:
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?  INSPECT TCM CONNECTOR CONDITION     Disconnect the TCM connector.     Visually inspect the TCM connector and terminals.     Is there any malfunction?  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?  Inspect for continuity?  Inspect for continuity between electric AT oil pump terminal B (wiring harness-side) and body ground.     Repair or replace the connector Step 7.  Inspect for the wiring diagram and is a common connector between terminal B and TCM terminal N.  If there is a common connector of the terminal B and TCM terminal B and TCM terminal B common connector and the terminal B co	I verify whether or not there n electric AT oil pump . or:
<ul> <li>Disconnect the electric AT oil pump connector.</li> <li>Inspect for poor connection (such as damaged/pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> <li>INSPECT TCM CONNECTOR CONDITION         <ul> <li>Disconnect the TCM connector.</li> <li>Visually inspect the TCM connector and terminals.</li> <li>Is there any malfunction?</li> </ul> </li> <li>INSPECT ELECTRIC AT OIL PUMP CIRCUIT         FOR SHORT TO GROUND         <ul> <li>Verify that the electric AT oil pump and TCM connectors are disconnected.</li> <li>Inspect for continuity between electric AT oil pump terminal B (wiring harness-side) and body ground.</li> <li>Is there continuity?</li> </ul> </li> <li>Pagair or replace the connector Step 7.         <ul> <li>No</li> <li>Go to the next step.</li> </ul> </li> <li>Refer to the wiring diagram and is a common connector between terminal B and TCM terminal N.             <ul> <li>If there is a common connector and the tendamage, or pin disconnection harness for a short to ground.</li> <ul> <li>Repair or replace the malfunctioning common connector and the tendamage, or pin disconnection harness for a short to ground.</li> <li>Repair or replace the malfunctioning to many terminal benefits the repair or replace the malfunctioning to many terminal benefits the repair or replace the connector step.</li> </ul> </ul></li> </ul>	I verify whether or not there n electric AT oil pump . or:
<ul> <li>Inspect for poor connection (such as damaged/pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> <li>INSPECT TCM CONNECTOR CONDITION         <ul> <li>Disconnect the TCM connector.</li> <li>Visually inspect the TCM connector and terminals.</li> <li>Is there any malfunction?</li> </ul> </li> <li>INSPECT ELECTRIC AT OIL PUMP CIRCUIT         FOR SHORT TO GROUND         <ul> <li>Verify that the electric AT oil pump and TCM connectors are disconnected.</li> <li>Inspect for continuity between electric AT oil pump terminal B (wiring harness-side) and body ground.</li> <li>Is there continuity?</li> </ul> </li> <li>Is there is a common connector and the ted damage, or pin disconnection harness for a short to ground.</li> <li>Repair or replace the connector Step 7.</li> <li>No</li> <li>Go to the next step.</li> <li>Refer to the wiring diagram and is a common connector between terminal B and TCM terminal N.</li> <li>If there is a common connector and the ted damage, or pin disconnection harness for a short to ground.</li> <li>Repair or replace the malfunctioning to make the malfunctioning common connector and the ted damage, or pin disconnection harness for a short to ground.</li> </ul>	I verify whether or not there n electric AT oil pump . or:
pulled-out pins, corrosion).  • Is there any malfunction?  3 INSPECT TCM CONNECTOR CONDITION • Disconnect the TCM connector. • Visually inspect the TCM connector and terminals. • Is there any malfunction?  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?  Pes Repair or replace the connector Step 7.  No Go to the next step.  Perminal B and TCM terminal B is a common connector between terminal B and TCM terminal N.  If there is a common connector and the terminal B (wiring harness-side) and body ground. • Is there continuity?	I verify whether or not there n electric AT oil pump . or:
<ul> <li>Is there any malfunction?</li> <li>INSPECT TCM CONNECTOR CONDITION         <ul> <li>Disconnect the TCM connector.</li> <li>Visually inspect the TCM connector and terminals.</li> <li>Is there any malfunction?</li> </ul> </li> <li>INSPECT ELECTRIC AT OIL PUMP CIRCUIT         FOR SHORT TO GROUND         <ul> <li>Verify that the electric AT oil pump and TCM connectors are disconnected.</li> <li>Inspect for continuity between electric AT oil pump terminal B (wiring harness-side) and body ground.</li> <li>Is there continuity?</li> </ul> </li> <li>Is there any malfunction?</li> <li>Yes Repair or replace the connector Step 7.</li> <li>No Go to the next step.</li> <li>Refer to the wiring diagram and is a common connector betwee terminal B and TCM terminal N.</li> <li>If there is a common connector and the ted damage, or pin disconnection harness for a short to ground.</li> <li>Repair or replace the connector Step 7.</li> </ul>	I verify whether or not there n electric AT oil pump . or:
3 INSPECT TCM CONNECTOR CONDITION	I verify whether or not there n electric AT oil pump . or:
Disconnect the TCM connector.     Visually inspect the TCM connector and terminals.     Is there any malfunction?  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?  Step 7.  No Refer to the wiring diagram and is a common connector betwee terminal B and TCM terminal N. If there is a common connect     Determine the malfunctioning common connector and the ted damage, or pin disconnection, harness for a short to ground.     Repair or replace the malfunctioning there is no common connector.	I verify whether or not there n electric AT oil pump . or:
Visually inspect the TCM connector and terminals.     Is there any malfunction?  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?  Pos Refer to the wiring diagram and is a common connector between terminal B and TCM terminal N. If there is a common connector and the ted damage, or pin disconnection, harness for a short to ground.     Repair or replace the malfunctioning there is no common connector.	n electric AT oil pump or:
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?      Refer to the wiring diagram and is a common connector betwee terminal B and TCM terminal N If there is a common connector     Determine the malfunctioning common connector and the ted damage, or pin disconnection, harness for a short to ground.     Repair or replace the malfunction of the terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector and the ted damage, or pin disconnection.  A Refer to the wiring diagram and is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM ter	n electric AT oil pump or:
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?  is a common connector betwee terminal B and TCM terminal N If there is a common connect on the malfunctioning common connector and the tent damage, or pin disconnection, harness for a short to ground.  • Repair or replace the malfunctioning there is no common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector between terminal B and TCM terminal N If there is a common connector on the malfunctioning to the properties of the properti	n electric AT oil pump or:
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?     terminal B and TCM terminal N If there is a common connector common connector and the ted damage, or pin disconnection, harness for a short to ground.     Repair or replace the malfunction of the ted damage.	or:
connectors are disconnected.  Inspect for continuity between electric AT oil pump terminal B (wiring harness-side) and body ground.  Is there continuity?  If there is a common connect Determine the malfunctioning common connector and the ted damage, or pin disconnection harness for a short to ground.  Repair or replace the malfunctioning common connect or pin disconnection harness for a short to ground.	or:
<ul> <li>Inspect for continuity between electric AT oil pump terminal B (wiring harness-side) and body ground.</li> <li>Is there continuity?</li> <li>Determine the malfunctioning common connector and the tedamage, or pin disconnection harness for a short to ground.</li> <li>Repair or replace the malfunctioning common connector and the tedamage, or pin disconnection.</li> <li>Repair or replace the malfunctioning common connector and the tedamage.</li> </ul>	
terminal B (wiring harness-side) and body ground.  • Is there continuity?  common connector and the te damage, or pin disconnection harness for a short to ground.  • Repair or replace the malfunction of the state of the properties of the state of the properties of the state of	part by inspecting the
<ul> <li>Is there continuity?</li> <li>damage, or pin disconnection harness for a short to ground.</li> <li>Repair or replace the malfunction of the residue of</li></ul>	
harness for a short to ground. • Repair or replace the malfunce If there is no common connection.	
Repair or replace the malfunct  If there is no common connect	, and the common wiring
If there is no common connect	
Repair or replace the wiring n	
	arness which has a short to
ground. Go to Step 7.	
No Go to Step 7.	
5 INSPECT ELECTRIC AT OIL PUMP CIRCUIT Yes Go to the next step.	
FOR SHORT TO POWER SUPPLY  No Refer to the wiring diagram and	verify whether or not there
Verify that the electric AT oil pump and TCM     is a common connector between	
connectors are disconnected.	
• Switch the ignition ON (engine on).	
Measure the voltage at the electric AT oil pump     Determine the malfunctioning	
terminal B (wiring harness-side).	
• Is the voltage <b>0 V</b> ? damage, or pin disconnection	
harness for a short to power s	upply.
Repair or replace the malfunction	tioning part.
If there is no common connection	
Repair or replace the wiring har	arness which has a short to
power supply.	
Go to Step 7.	
6 INSPECT ELECTRIC AT OIL PUMP CIRCUIT Yes Refer to the wiring diagram and	-
FOR OPEN CIRCUIT is a common connector betwee	
Verify that the electric AT oil pump and TCM     terminal B and TCM terminal N	
connectors are disconnected.	
Switch the ignition off.      Visually inspect the wiring horness between	
Visually inspect the wiring harness between common connector and the te	
electric AT oil pump terminal B (wiring harness- side) and TCM terminal N (wiring harness-side). damage, or pin disconnection, harness for an open circuit.	, and the common wining
• Is there any malfunction?  • Is there any malfunction?  • Repair or replace the malfunction.	tioning part
If there is no common connections	~ :
• Repair or replace the wiring ha	
circuit.	arricos willon has an open
Go to the next step.	
No Replace the electric AT oil pum	p, then go to the next sten
(See ELECTRIC AT OIL PUMP	
[FW6A-EL, FW6AX-EL].)	

STEP	INSPECTION		ACTION	
7	VERIFY DTC TROUBLESHOOTING	Yes	Go to the applicable DTC inspection.	
	COMPLETED		(See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE	
	Always reconnect all disconnected connectors.		[FW6A-EL, FW6AX-EL].)	
	Clear the DTC using the M-MDS.	No	DTC troubleshooting completed.	
	(See ON-BOARD DIAGNOSTIC SYSTEM DTC			
	INSPECTION [FW6A-EL, FW6AX-EL].)			
	Perform the following procedure to ensure that the			
	DTC has been resolved:			
	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?			