DTC P0673:00	Glow plug No.3 control circuit problem			
DETECTION CONDITION	 If the input voltage is below 5 V for 5 s, the PCM determines that the glow plug No.3 circuit problem. MONITORING CONDITIONS — Battery voltage: 8—20 V — Detects that the output duty value of the glow plug is 10 to 90 % for 1 s or more. Diagnostic support note • This is a continuous monitor (CCM). • The check engine light illuminates if the PCM detects the above malfunction condition during the first drive cycle. • FREEZE FRAME DATA (Mode 2)/Snapshot data is available. • DTC is stored in the PCM memory. 			
FAIL-SAFE FUNCTION	Inhibits engine-stop by operating the i-stop function.			
POSSIBLE CAUSE	Glow plug No.3 connector or terminals malfunction Glow control module connector or terminals malfunction Open circuit in wiring harness between glow plug No.3 terminal C and glow control module terminal 1E Short to ground in wiring harness between glow plug No.3 terminal C and glow control module terminal 1E Short to power supply in wiring harness between glow plug No.3 terminal C and glow control module terminal 1E PCM connector or terminals malfunction Glow plug No.3 malfunction Glow control module malfunction PCM malfunction			
	GLOW PLUG NO.1 GLOW PLUG NO.2 W— B GLOW PLUG NO.3 GLOW PLUG NO.4 GLOW PLUG NO.4 W— D GLOW PLUG NO.4 GLOW PLUG NO.4 GLOW PLUG NO.4 GLOW PLUG NO.4 GLOW CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR GLOW CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR D C B A D C B A GLOW CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR			

Diagnostic Procedure

	ostic Procedure		
STEP	INSPECTION		ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/	Yes	Go to the next step.
	SNAPSHOT DATA HAS BEEN RECORDED	No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data
	Has the FREEZE FRAME DATA (Mode 2)/		on the repair order, then go to the next step.
	snapshot data been recorded?		
2	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.
3	INSPECT GLOW PLUG NO.3 CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
	CONDITION	103	Step 11.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the glow plug No.3 connector.	INO	Go to the flext step.
	• Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
4	INSPECT GLOW CONTROL MODULE	Yes	Repair or replace the connector and/or terminals, then go to
	CONNECTOR CONDITION		Step 11.
	Disconnect the glow control module connector.	No	Go to the next step.
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
5	INSPECT GLOW PLUG NO.3 CONTROL	Yes	Go to the next step.
	CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the glow plug No.3 and glow control		circuit, then go to Step 11.
	module connectors are disconnected.		and and go to every vivi
	Inspect for continuity between glow plug No.3		
	terminal C (wiring harness-side) and glow control		
	module terminal 1E (wiring harness-side).		
	• Is there continuity?		
6	INSPECT GLOW PLUG NO.3 CONTROL	Yes	Repair or replace the wiring harness for a possible short to
0		165	
	CIRCUIT FOR SHORT TO GROUND	NI-	ground, then go to Step 11.
	Verify that the glow plug No.3 and glow control The standard product of the standard product	No	Go to the next step.
	module connectors are disconnected.		
	• Inspect for continuity between glow plug No.3		
	terminal C (wiring harness-side) and body ground.		
	Is there continuity?		
7	INSPECT GLOW PLUG NO.3 CONTROL	Yes	Go to the next step.
	CIRCUIT FOR SHORT TO POWER SUPPLY	No	Repair or replace the wiring harness for a possible short to
	 Verify that the glow plug No.3 and glow control 		power supply, then go to Step 11.
	module connectors are disconnected.		
	Switch the ignition ON (engine off).		
	Measure the voltage at the glow plug No.3		
	terminal C (wiring harness-side).		
	• Is the voltage 0 V ?		
8	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Switch the ignition off.		Step 11.
	Disconnect the PCM connector.	No	Go to the next step.
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	• Is there any malfunction?		
9	INSPECT GLOW PLUG NO.3	Yes	Replace the glow plug No.3, then go to Step 11.
9	• Inspect the glow plug No.3.	169	(See GLOW PLUG REMOVAL/INSTALLATION
	(See GLOW PLUG INSPECTION [SKYACTIV-D	k 1	[SKYACTIV-D 2.2].)
	2.2].)	No	Go to the next step.
L	Is there any malfunction?		
10	INSPECT GLOW CONTROL MODULE	Yes	Replace the glow control module, then go to the next step.
	Inspect the glow control module.		(See GLOW PLUG CONTROL MODULE REMOVAL/
	(See GLOW PLUG CONTROL MODULE		INSTALLATION [SKYACTIV-D 2.2].)
	INSPECTION [SKYACTIV-D 2.2].)	No	Go to the next step.
	Is there any malfunction?		
	•		1

STEP	INSPECTION		ACTION
11	VERIFY DTC TROUBLESHOOTING COMPLETED	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM.
	 Always reconnect all disconnected connectors. Clear the DTC from the PCM memory using the M-MDS. 		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step.
	(See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) • Perform the DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) • Is the same DTC present?	No	Go to the next step.
12	VERIFY AFTER REPAIR PROCEDURE • Perform the "AFTER REPAIR PROCEDURE".	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].)
	(See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) • Are any DTCs present?	No	DTC troubleshooting completed.