## DTC P009F:00 [SKYACTIV-D 2.2]

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DTC P009F: 00	Fuel pressure relief valve malfunction (stuck close)
	When the following condition is met, the pressure reduction amount during the fuel pressure relief valve operation is insufficient for several seconds continuously:      MONITORING CONDITIONS
	— Battery voltage: 10—16 V
DETECTION	9
CONDITION	This is an intermittent monitor (fuel system).
	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	PCM restricts engine torque.
	PCM restricts fuel pressure. (high pressure side)
FUNCTION	Inhibits engine-stop by operating the i-stop function.
DOGGIDI E	Fuel pressure relief valve malfunction
POSSIBLE	Suction control valve malfunction
CAUSE	PCM malfunction
SYSTEM	
WIRING	Not applicable
DIAGRAM	

**Diagnostic Procedure** 

Diagno	ostic Procedure		
STEP	INSPECTION		ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/	Yes	Go to the next step.
	SNAPSHOT DATA AND DIAGNOSTIC	No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data
	MONITORING TEST RESULTS HAVE BEEN		and DIAGNOSTIC MONITORING TEST RESULTS on the
	RECORDED		repair order, then go to the next step.
	Have the FREEZE FRAME DATA (Mode 2)/		
	snapshot data and DIAGNOSTIC MONITORING		
	TEST RESULTS (fuel system related) 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	VERIFY RELATED PENDING CODE AND/OR	Yes	Go to the applicable PENDING CODE or DTC inspection.
	DTC		(See DTC TABLE [SKYACTIV-D 2.2].)
	Switch the ignition off, then ON (engine off).	No	Go to the next step.
	Perform the Pending Trouble Code Access		
	Procedure and DTC Reading Procedure.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-D 2.2].)		
	Are any other PENDING CODEs and/or DTCs		
	present?		
4	INSPECT FUEL PRESSURE RELIEF VALVE	Yes	Replace the common rail, then go to Step 6.
	Inspect the fuel pressure relief valve.		(See COMMON RAIL REMOVAL/INSTALLATION
	(See FUEL PRESSURE RELIEF VALVE		[SKYACTIV-D 2.2].)
	INSPECTION [SKYACTIV-D 2.2].)	No	Go to the next step.
	Is there any malfunction?		
5	INSPECT SUCTION CONTROL VALVE	Yes	Replace the suction control valve, then go to the next step.
	Inspect the suction control valve.		(See SUCTION CONTROL VALVE REMOVAL/
	(See SUCTION CONTROL VALVE INSPECTION		INSTALLATION [SKYACTIV-D 2.2].)
	[SKYACTIV-D 2.2].)	No	Go to the next step.
	Is there any malfunction?		

STEP	INSPECTION		ACTION
6	VERIFY DTC TROUBLESHOOTING COMPLETED  • Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)  • Start the engine. • Repeat deceleration ten times using engine braking after accelerating the vehicle speed to 60 km/h {37 mph}.  • Perform the DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].)  • Is the same DTC present?	Yes No	112 112 11
7	VERIFY AFTER REPAIR PROCEDURE  • Perform the "AFTER REPAIR PROCEDURE".  (See AFTER REPAIR PROCEDURE  [SKYACTIV-D 2.2].)  • Are any DTCs present?	Yes No	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].) DTC troubleshooting completed.