DTC P1282:00	Common rail control system problem
	• When the following conditions are met, the common rail fuel pressure value exceeds 250 MPa {2,549 kgf/cm², 36,260 psi} or the fuel pressure value exceeds the value calculated by the PCM based on the engine speed for a continuous 1 s.
DETECTION	MONITORING CONDITIONS — Engine speed: above 500 rpm — Battery voltage: 8—20 V
CONDITION	• This is an intermittent monitor (fuel system). • The check engine light illuminates if the PCM detects the above malfunction condition in two consecutive drive cycles or in one drive cycle while the DTC for the same malfunction has been stored in the PCM. • PENDING CODE is available if the PCM detects the above malfunction condition during the first drive cycle. • FREEZE FRAME DATA (Mode 2)/Snapshot data is available.
FAIL-SAFE FUNCTION	 DTC is stored in the PCM memory. PCM restricts engine torque. Increase the idle speed. Inhibits the diesel particulate filter regeneration control. Inhibits engine-stop by operating the i-stop function.
POSSIBLE CAUSE	Fuel filter clogged Fuel pressure relief valve malfunction Fuel pressure sensor malfunction Suction control valve malfunction Fuel pipe perforation or breakage (poor contact) PCM malfunction
SYSTEM WIRING DIAGRAM	Not applicable

Diagnostic 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	VERIFY RELATED PENDING CODE AND/OR	Yes	
	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	VERIFY CURRENT INPUT SIGNAL STATUS IS	Yes	·
	CONCERN INTERMITTENT OR CONSTANT	No	Intermittent concern exists.
	Clear the DTC from the PCM memory using the		Perform the "INTERMITTENT CONCERN
	M-MDS.		TROUBLESHOOTING" procedure.
	(See AFTER REPAIR PROCEDURE		(See INTERMITTENT CONCERN TROUBLESHOOTING
	[SKYACTIV-D 2.2].)		[SKYACTIV-D 2.2].)
	• Start the engine.		
	Perform the Pending Trouble Code Access		
	Procedure.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-D 2.2].)		
	• Is the PENDING CODE for this DTC present?		

STEP	INSPECTION		ACTION
5	INSPECT FUEL FILTER FOR CLOGGING	Yes	Repair or replace the malfunctioning part according to the
	Visually inspect the fuel filter.		inspection results, then go to Step 10.
	(See FUEL FILTER INSPECTION [SKYACTIV-D		(See FUEL FILTER REMOVAL/INSTALLATION
	2.2].) Is there any malfunction?	No	[SKYACTIV-D 2.2].) Go to the next step.
6	INSPECT FUEL PRESSURE RELIEF VALVE	Yes	Replace the common rail, then go to Step 10.
"	• Inspect the fuel pressure relief valve.	163	(See COMMON RAIL REMOVAL/INSTALLATION
	(See FUEL PRESSURE RELIEF VALVE		[SKYACTIV-D 2.2].)
	ÎNSPECTION [SKYACTIV-D 2.2].)	No	Go to the next step.
	Is there any malfunction?		·
7	INSPECT FUEL PRESSURE SENSOR	Yes	Replace the common rail, then go to Step 10.
	• Inspect the fuel pressure sensor.		(See COMMON RAIL REMOVAL/INSTALLATION
	(See FUEL PRESSURE SENSOR INSPECTION	Nia	[SKYACTIV-D 2.2].)
	[SKYACTIV-D 2.2].) • Is there any malfunction?	No	Go to the next step.
8	INSPECT SUCTION CONTROL VALVE	Yes	Replace the suction control valve, then go to Step 10.
	Inspect the suction control valve.		(See SUCTION CONTROL VALVE REMOVAL/
	(See SUCTION CONTROL VALVE INSPECTION		ÎNSTALLATION [SKYACTIV-D 2.2].)
	[SKYACTIV-D 2.2].)	No	Go to the next step.
	Is there any malfunction?		
9	INSPECT FUEL LINE	Yes	Repair or replace the malfunctioning part according to the
	Inspect the fuel line. (See FUEL SYSTEM LOCATION INDEX	No	inspection results, then go to the next step. Go to the next step.
	SKYACTIV-D 2.2].)	INO	Go to the next step.
	• Is there any malfunction?		
10	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	COMPLETED		If the malfunction recurs, replace the PCM.
	Always reconnect all disconnected connectors.		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
	Clear the DTC from the PCM memory using the		2.2].)
	M-MDS. (See AFTER REPAIR PROCEDURE	Nia	Go to the next step.
	[SKYACTIV-D 2.2].)	No	Go to the next step.
	• Start the engine and warm it up completely.		
	Caution		
	While performing this step, always operate		
	the vehicle in a safe and lawful manner. • When the M-MDS is used to observe		
	monitor system status while driving, be		
	sure to have another technician with you,		
	or record the data in the M-MDS using the		
	PID/DATA MONITOR AND RECORD		
	capturing function and inspect later.		
	Drive the vehicle under the FREEZE FRAME		
	DATA (Mode 2)/snapshot data condition.		
	Perform the Pending Trouble Code Access		
	Procedure.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-D 2.2].)		
L	• Is the PENDING CODE for this DTC present?		
11	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE)	Nia	(See DTC TABLE [SKYACTIV-D 2.2].)
	SKYACTIV-D 2.2].)	No	DTC troubleshooting completed.
	• Are any DTCs present?		
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