DTC P242F:00 [SKYACTIV-D 2.2]

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DTC P242F: 00	Diesel particulate filter excess accumulation (exceeded acceptable amount)				
DETECTION CONDITION	 Amount of accumulated soot exceeds 17 g/l {1.06 lb/ft³} for 125 s because of diesel particulate filter clogging. 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	PCM restricts engine torque. Inhibits the EGR control.				
POSSIBLE CAUSE	 Exhaust gas pressure sensor No.2 connector or terminals malfunction Pipe between exhaust gas pressure sensor No.2 and catalytic converter restriction and/or damaged Diesel particulate filter restriction and/or damaged PCM malfunction 				
SYSTEM WIRING DIAGRAM	Not applicable				

Diagnostic Procedure

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STEP	INSPECTION		ACTION				
1	IDENTIFY TRIGGER DTC FOR FREEZE FRAME	Yes	Go to the next step.				
	DATA (MODE 2)	No	Go to the troubleshooting procedure for DTC on FREEZE				
	Perform the Freeze Frame PID Data Access		FRAME DATA (Mode 2).				
	Procedure.		(See DTC TABLE [SKYACTIV-D 2.2].)				
	(See ON-BOARD DIAGNOSTIC TEST						
	[SKYACTIV-D 2.2].)						
	• Is the DTC P242F:00 on FREEZE FRAME DATA						
	(Mode 2)?						
2	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?						
3	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.				
4	INSPECT EXHAUST GAS PRESSURE SENSOR	Yes	Repair or replace the connector and/or terminals, then go to				
	NO.2 CONNECTOR CONDITION		Step 6.				
	Switch the ignition off.	No	Go to the next step.				
	Disconnect the exhaust gas pressure sensor No.						
	2 connector.						
	• Inspect for poor connection (such as damaged/						
	pulled-out pins, corrosion).						
5	Is there any malfunction? INSPECT EXHAUST GAS PRESSURE SENSOR	V	Denois as souless the small spatianing past according to the				
5	NO.2 RELATED PIPE	Yes	Repair or replace the malfunctioning part according to the				
	· · · · · · · · · · · · · · · · · · ·	NIa	inspection results, then go to the next step.				
	Visually inspect the exhaust gas pressure sensor No 2 related pipe for restriction and damaged.	No	Replace the catalytic converter, then go to the next step.				
	No.2 related pipe for restriction and damaged.		(See EXHAUST SYSTEM REMOVAL/INSTALLATION				
	(See EXHAUST GAS PRESSURE SENSOR INSPECTION [SKYACTIV-D 2.2].)		[SKYACTIV-D 2.2].)				
	• Is there any malfunction?						
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STEP	INSPECTION		ACTION
6	VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR RECCEPURE)	Yes	If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step.
	(See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) • Start the engine and warm it up completely.	No	Go to the next step.
	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 DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].)		
7	• Is the same DTC present? VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) Are any DTCs present?	No	(See DTC TABLE [SKYACTIV-D 2.2].) DTC troubleshooting completed.