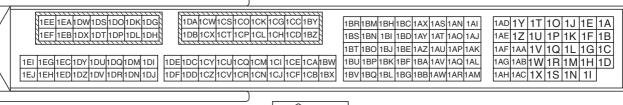
DTC P0404:00 [SKYACTIV-D 2.2]

	0 [SKYACTIV-D 2.2] id0102s41553				
DTC P0404:00	Circuit malfunction in EGR valve DC motor control system				
DETECTION CONDITION	 The EGR valve DC motor drive current exceeds the specification for a continuous 3 s when the following condition is met: MONITORING CONDITIONS				
FAIL-SAFE FUNCTION	 Inhibits the two-stage turbo control. Inhibits the EGR control. Inhibits engine-stop by operating the i-stop function. PCM restricts engine-transaxle integration control. 				
POSSIBLE CAUSE	EGR valve/EGR valve position sensor connector or terminals malfunction Short to ground in wiring harness between the following terminals:				
	EGR VALVE POSITION SENSOR) (EGR VALVE/EGR VALVE POSITION SENSOR) (EGR VALVE/EGR VALVE POSITION SENSOR WIRING HARNESS-SIDE CONNECTOR				
	E D C B A				
	PCM WIRING HARNESS-SIDE CONNECTOR				





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)/	INO	on the repair order, then go to the next step.
	snapshot data been recorded?		on the repair order, then go to the next step.
2	VERIFY RELATED SERVICE INFORMATION	Yes	Perform repair or diagnosis according to the available
-	AVAILABILITY	103	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 EGR VALVE/EGR VALVE POSITION	Yes	Repair or replace the connector and/or terminals, then go to
'	SENSOR CONNECTOR CONDITION	163	Step 8.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the EGR valve/EGR valve position	110	Go to the next step.
	sensor connector.		
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	• Is there any malfunction?		
4	INSPECT EGR VALVE POSITION SENSOR	Yes	If the short to ground circuit could be detected in the wiring
•	CIRCUIT FOR SHORT TO GROUND		harness:
	 Verify that the EGR valve/EGR valve position 		Repair or replace the wiring harness for a possible short to
	sensor connector is disconnected.		ground.
	 Inspect for continuity between the following 		If the short to ground circuit could not be detected in the
	terminals (wiring harness-side) and body ground:		wiring harness:
	 EGR valve/EGR valve position sensor 		Replace the PCM (short to ground in the PCM internal
	terminal E		circuit).
	 EGR valve/EGR valve position sensor 		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
	terminal A		2.2].)
	Is there continuity?		Go to Step 8.
		No	Go to the next step.
5	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 8.
	 Inspect for poor connection (such as damaged/ 	No	Go to the next step.
	pulled-out pins, corrosion).		
	Is there any malfunction?		
6	INSPECT EGR VALVE CIRCUIT FOR SHORT TO	Yes	Go to the next step.
	POWER SUPPLY	No	Repair or replace the wiring harness for a possible short to
	Verify that the EGR valve/EGR valve position		power supply, then go to Step 8.
	sensor and PCM connectors are disconnected.		
	Switch the ignition ON (engine off).		
	Measure the voltage at the following terminals		
	(wiring harness-side):EGR valve/EGR valve position sensor		
	terminal E		
	EGR valve/EGR valve position sensor		
	terminal A		
	• Is the voltage 0 V ?		
7	INSPECT EGR VALVE	Yes	Replace the EGR valve, then go to the next step.
	Inspect the EGR valve.		(See EGR VALVE REMOVAL/INSTALLATION [SKYACTIV-
	(See EGR VALVE INSPECTION [SKYACTIV-D		D 2.2].)
	2.2].)	No	Go to the next step.
	Is there any malfunction?		
8	VERIFY DTC TROUBLESHOOTING	Yes	
	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.		Go to the next step.
	(See AFTER REPAIR PROCEDURE	No	Go to the next step.
	[SKYACTIV-D 2.2].)		
	Perform the DTC Reading Procedure.		
	(See ON-BOARD DIAGNOSTIC TEST		
1 '			
	[SKYACTIV-D 2.2].) • Is the same DTC present?		

STEP	INSPECTION		ACTION
9	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-D 2.2].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	[SKYACTIV-D 2.2].)		
	Are any DTCs present?		