DTC P0402:00	EGR flow excessive detected			
	When the following condition is met, the EGR volume is higher than the specification for the target value for a continuous 8 s: MONITORING CONDITIONS — During EGR control — Engine speed: 1,300—2,000 rpm			
DETECTION	 Fuel injection amount: 15—45 mm³/stroke Diagnostic support note This is a continuous monitor (CCM). 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. DTC is stored in the PCM memory. 			
FAIL-SAFE FUNCTION	Inhibits the two-stage turbo control. Inhibits the EGR control.			
POSSIBLE CAUSE	Intake shutter valve malfunction EGR valve malfunction (stuck open) Air suction in intake air system (between MAF sensor and turbocharger) PCM malfunction			
SYSTEM WIRING DIAGRAM	Not applicable			

Diagnostic Procedure

	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	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 INTAKE SHUTTER VALVE	Yes	Reeplace the intake shutter valve, then go to Step 7.				
	Inspect the intake shutter valve.		(See INTAKE SHUTTER VALVE REMOVAL/				
	(See INTAKE SHUTTER VALVE INSPECTION		INSTALLATION [SKYACTIV-D 2.2].)				
	[SKYACTIV-D 2.2].)	No	Go to the next step.				
	Is there any malfunction?						
5	INSPECT EGR VALVE OPERATION	Yes	Go to the next step.				
	Perform the EGR Valve Operation Inspection.	No	Repair or replace the malfunctioning part according to the				
	(See ENGINE CONTROL SYSTEM OPERATION		inspection results, then go to Step 7.				
	INSPECTION [SKYACTIV-D 2.2].)						
	Does the EGR valve operate properly?						
6	INSPECT INTAKE AIR SYSTEM FOR AIR	Yes	Repair or replace the malfunctioning part according to the				
	SUCTION		inspection results, then go to the next step.				
	Visually inspect for looseness and damage	No	Go to the next step.				
	between the following:						
	MAF sensor and turbocharger						
	Is there any malfunction?						

STEP	INSPECTION		ACTION
7	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.		Go to the next step.
	(See AFTER REPAIR PROCEDURE	No	Go to the next step.
	[SKYACTIV-D 2.2].)		
	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].)		
	• Is the PENDING CODE for this DTC present?		
8	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?		