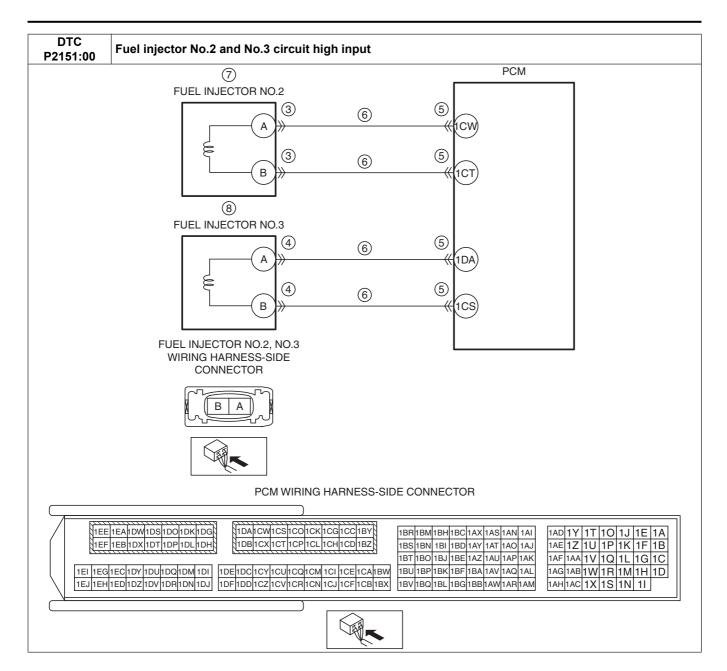
DTC P2151:00 [SKYACTIV-D 2.2]

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DTC P2151:00	Fuel injector No.2 and No.3 circuit high input
	 When the following condition is met, the PCM detects the control current at fuel injectors No.2 and No.3 as exceeding 10 A 4 times: MONITORING CONDITIONS
	Battery voltage: more than 8 V
DETECTION	Diagnostic support note
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.
	PCM restricts engine torque.
FAIL-SAFE	Inhibits the EGR control.
FUNCTION	Inhibits the diesel particulate filter regeneration control.
FUNCTION	Inhibits engine-stop by operating the i-stop function.
	PCM restricts engine-transaxle integration control.
	Fuel injector No.2 connector or terminals malfunction
	Fuel injector No.3 connector or terminals malfunction
	PCM connector or terminals malfunction
	Short to power supply in wiring harness between the following terminals:
POSSIBLE	Fuel injector No.2 terminal A—PCM terminal 1CW
CAUSE	Fuel injector No.2 terminal B—PCM terminal 1CT
GAGGE	Fuel injector No.3 terminal A—PCM terminal 1DA
	Fuel injector No.3 terminal B—PCM terminal 1CS
	• Fuel injector No.2 malfunction
	• Fuel injector No.3 malfunction
	PCM malfunction



Diagnostic Procedure

Diagno	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	INSPECT FUEL INJECTOR NO.2 CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to			
	CONDITION		Step 9.			
	Switch the ignition off.	No	Go to the next step.			
	Disconnect the fuel injector No.2 connector.					
	Inspect for poor connection (such as damaged/					
	pulled-out pins, corrosion).					
	Is there any malfunction?					

STEP	INSPECTION		ACTION
4	INSPECT FUEL INJECTOR NO.3 CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
	CONDITION		Step 9.
	Disconnect the fuel injector No.3 connector.	No	Go to the next step.
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
5	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 9.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		
6	Is there any malfunction? INSPECT FUEL INJECTOR CIRCUIT FOR	Voo	Co to the payt stan
0	SHORT TO POWER SUPPLY	Yes No	Go to the next step. Repair or replace the wiring harness for a possible short to
	Verify that the fuel injector No.2 and fuel injector	INO	power supply, then go to Step 9.
	No.3 connectors are disconnected.		power supply, men go to step 9.
	Measure the voltage at the following terminals		
	(wiring harness-side):		
	Fuel injector No.2 terminal A		
	 Fuel injector No.2 terminal B 		
	Fuel injector No.3 terminal A		
	Fuel injector No.3 terminal B		
	• Is the voltage 0 V?		
7	INSPECT FUEL INJECTOR NO.2	Yes	Replace the fuel injector No.2, then go to Step 9.
	Inspect the fuel injector No.2.		(See FUEL INJECTOR REMOVAL/INSTALLATION
	(See FUEL INJECTOR INSPECTION		[SKYACTIV-D 2.2].)
	[SKYACTIV-D 2.2].)	No	Go to the next step.
	• Is there any malfunction?	1/	Delegation to the first of the Alice of the second of the
8	INSPECT FUEL INJECTOR NO.3	Yes	Replace the fuel injector No.3, then go to the next step.
	Inspect the fuel injector No.3. (See FUEL INJECTOR INSPECTION		(See FUEL INJECTOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
	[SKYACTIV-D 2.2].)	No	Go to the next step.
	• Is there any malfunction?	INO	Go to the next step.
9	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].)		
	Perform the KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-D		
	2.2].)		
	• Is the same DTC present?		0 + # # # # # # # # # # # # # # # # # #
10	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	• Perform the "AFTER REPAIR PROCEDURE".	L	(See DTC TABLE [SKYACTIV-D 2.2].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	[SKYACTIV-D 2.2].) • Are any DTCs present?		
	Are any Diros present?		