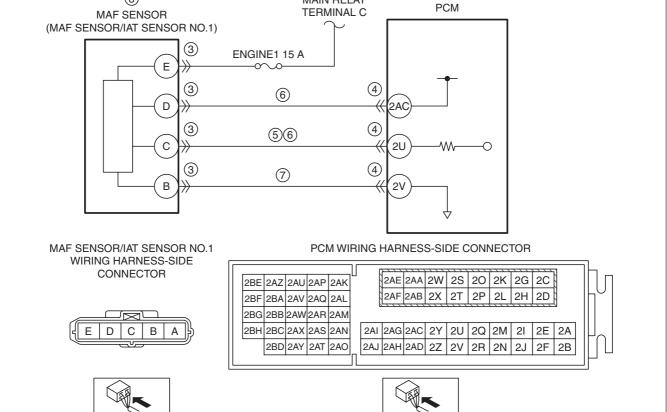
DTC P0103:00 [SKYACTIV-D 2.2]						
DTC P0103:00	MAF sensor circuit high input					
DETECTION CONDITION	Diagnostic support note					
FAIL-SAFE FUNCTION	PCM restricts engine torque. Inhibits the EGR control.					
POSSIBLE CAUSE	 Intake airflow amount is large MAF sensor/IAT sensor No.1 connector or terminals malfunction PCM connector or terminals malfunction Short to power supply in wiring harness between MAF sensor/IAT sensor No.1 terminal C and PCM terminal 2U MAF sensor power supply circuit and signal circuit are shorted to each other Open circuit in wiring harness between MAF sensor/IAT sensor No.1 terminal B and PCM terminal 2V MAF sensor malfunction PCM malfunction 					
(MAF	8 MAIN RELAY PCM SENSOR NO.1) 3 ENGINE1 15 A E 3 6 4 2AC 3 5 6					



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?		and the repair eract, after go to the most etep.
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 MAF SENSOR/IAT SENSOR NO.1	Yes	Repair or replace the connector and/or terminals, then go to
	CONNECTOR CONDITION	103	Step 9.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the MAF sensor/IAT sensor No.1	110	GO to the flext step.
	connector.		
	 Inspect for poor connection (such as damaged/ 		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
4	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).	''	or to the most ctop.
	• Is there any malfunction?		
5	INSPECT MAF SENSOR CIRCUIT FOR SHORT	Yes	Go to the next step.
	TO POWER SUPPLY	No	Repair or replace the wiring harness for a possible short to
	 Verify that the MAF sensor/IAT sensor No.1 and 		power supply, then go to Step 9.
	PCM connectors are disconnected.		11 37 3 1
	 Switch the ignition ON (engine off). 		
	 Measure the voltage at the MAF sensor/IAT 		
	sensor No.1 terminal C (wiring harness-side).		
	• Is the voltage 0 V ?		
6	INSPECT MAF SENSOR POWER SUPPLY	Yes	Repair or replace the wiring harness for a possible short to
	CIRCUIT AND SIGNAL CIRCUIT FOR SHORT TO		each other, then go to Step 9.
	EACH OTHER	No	Go to the next step.
	 Verify that the MAF sensor/IAT sensor No.1 and 		
	PCM connectors are disconnected.		
	Switch the ignition off.		
	• Inspect for continuity between MAF sensor/IAT		
	sensor No.1 terminals D and C (wiring harness-		
	side).		
	• Is there continuity?		
7	INSPECT MAF SENSOR GROUND CIRCUIT FOR	Yes	
	OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	 Verify that the MAF sensor/IAT sensor No.1 and PCM connectors are disconnected. 		circuit, then go to Step 9.
	 Inspect for continuity between MAF sensor/IAT sensor No.1 terminal B (wiring harness-side) and 		
	PCM terminal 2V (wiring harness-side).		
	• Is there continuity?		
8	INSPECT MAF SENSOR	Yes	Replace the MAF sensor/IAT sensor No.1, then go to the
"	Reconnect all disconnected connectors.	162	next step.
	Inspect the MAF sensor.		(See MASS AIR FLOW (MAF) SENSOR/INTAKE AIR
	(See MASS AIR FLOW (MAF) SENSOR		TEMPERATURE (IAT) SENSOR NO.1 REMOVAL/
	INSPECTION [SKYACTIV-D 2.2].)		INSTALLATION [SKYACTIV-D 2.2].)
	• Is there any malfunction?	No	Go to the next step.
	10 thoro diff manuflotton:	110	Ou to the Heat step.

STEP	INSPECTION		ACTION
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 KOEO or KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-D		
	2.2].)		
	Is the same DTC present?		
10	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?		