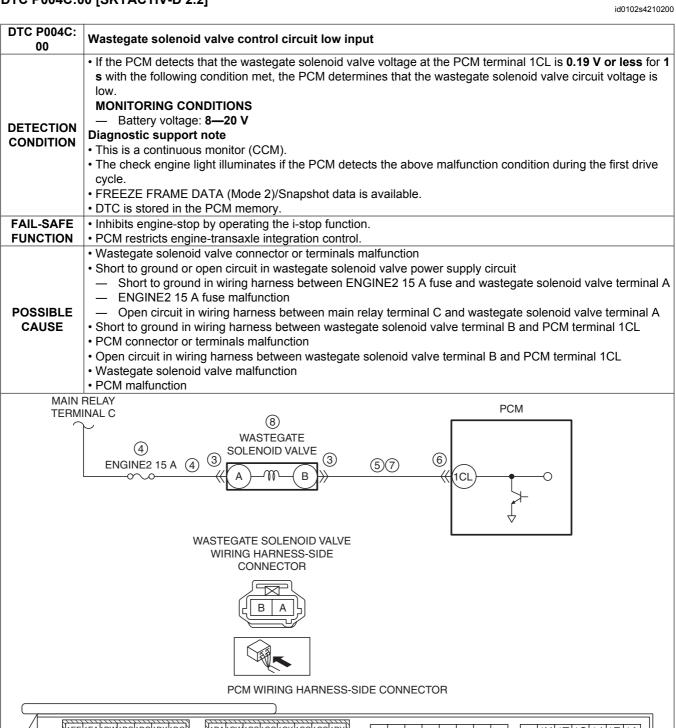
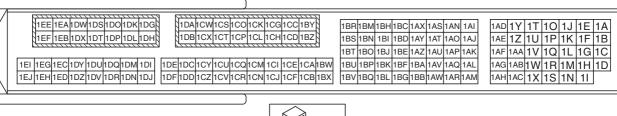
DTC P004C:00 [SKYACTIV-D 2.2]





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)/	110	on the repair order, then go to the next step.
	snapshot data been recorded?		on the repair cracif, their go to the next step.
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 WASTEGATE SOLENOID VALVE	Yes	Repair or replace the connector and/or terminals, then go to
3	CONNECTOR CONDITION	165	Step 9.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the wastegate solenoid valve	INO	Go to the flext step.
	connector.		
	 Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). 		
4	• Is there any malfunction? INSPECT WASTEGATE SOLENOID VALVE	Vaa	Co to the post step
4	POWER SUPPLY CIRCUIT FOR SHORT TO	Yes	I I
	GROUND OR OPEN CIRCUIT	No	Inspect the ENGINE2 15 A fuse.
	Verify that the wastegate solenoid valve		• If the fuse is blown:
	, ,		Repair or replace the wiring harness for a possible
	connector is disconnected. • Switch the ignition ON (engine off).		short to ground.
	Measure the voltage at the wastegate solenoid		Replace the fuse. If the fuse is deteriorated:
	valve terminal A (wiring harness-side).		
	• Is the voltage B+ ?		— Replace the fuse.
	s the voltage by:		• If the fuse is normal:
			Repair or replace the wiring harness for a possible
			open circuit.
	INCREOT WASTEGATE OOL ENOUD WALVE	\/	Go to Step 9.
5	INSPECT WASTEGATE SOLENOID VALVE	Yes	If the short to ground circuit could be detected in the wiring
	CONTROL CIRCUIT FOR SHORT TO GROUND		harness:
	Verify that the wastegate solenoid valve		Repair or replace the wiring harness for a possible short to
	connector is disconnected.		ground.
	• Switch the ignition off.		If the short to ground circuit could not be detected in the
	Inspect for continuity between wastegate solenoid valve terminal R (wiring borness side) and hady		wiring harness:
	valve terminal B (wiring harness-side) and body		Replace the PCM (short to ground in the PCM internal
	ground.		circuit).
	Is there continuity?		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
			2.2].)
		NIa	Go to Step 9.
6	INCRECT DOM CONNECTOR CONDITION	No	Go to the next step.
0	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	 Disconnect the PCM connector. Inspect for poor connection (such as damaged/ 	No	Step 9. Go to the next step.
	pulled-out pins, corrosion).	INU	טט נט נוופ וופגנ אנפף.
	• Is there any malfunction?		
7	INSPECT WASTEGATE SOLENOID VALVE	Yes	Go to the next step.
'	CONTROL CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the wastegate solenoid valve and PCM	INU	circuit, then go to Step 9.
	connectors are disconnected.		on our, then go to otep 3.
	Inspect for continuity between wastegate solenoid		
	valve terminal B (wiring harness-side) and PCM		
	terminal 1CL (wiring harness-side).		
	• Is there continuity?		
8	INSPECT WASTEGATE SOLENOID VALVE	Yes	Replace the wastegate solenoid valve, then go to the next
	• Inspect the wastegate solenoid valve.	163	step.
	(See WASTEGATE SOLENOID VALVE		(See WASTEGATE SOLENOID VALVE REMOVAL/
	INSPECTION [SKYACTIV-D 2.2].)		INSTALLATION [SKYACTIV-D 2.2].)
	• Is there any malfunction?	No	Go to the next step.
	is alore any manaronon:	INO	סט נט נווט וופגנ אנפף.

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?		