DTC P0079:0	0 [SKYACTIV-D 2.2] id0102s421040
DTC P0079:00	OCV circuit low input
	• If the PCM detects that the OCV voltage at the PCM terminal 1CK is 0.19 V or less for 1 s with the following
	condition met, the PCM determines that the OCV circuit voltage is low.
	MONITORING CONDITIONS
DETECTION	Battery voltage: 8—20 V Diagnostic support note
CONDITION	• This is a continuous monitor (CCM).
CONDITION	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.
	Inhibits the two-stage turbo control.
FAIL-SAFE	Inhibits the EGR control.
FUNCTION	The fast idle up correction for the idle speed control is inhibited.
	Inhibits engine-stop by operating the i-stop function.
	OCV connector or terminals malfunction
	• Short to ground or open circuit in OCV power supply circuit
	Short to ground in wiring harness between ENGINE1 15 A fuse and OCV terminal A ENGINE 1.15 A fuse malfunction.
POSSIBLE	ENGINE1 15 A fuse malfunction Open circuit in wiring harness between main relay terminal C and OCV terminal A
CAUSE	Short to ground in wiring harness between OCV terminal B and PCM terminal 1CK
CAUSE	PCM connector or terminals malfunction
	Open circuit in wiring harness between OCV terminal B and PCM terminal 1CK
	• OCV malfunction
	PCM malfunction
	N RELAY RMINAL C PCM
161	\sim
	8
	(4) OCV (5) (7) (6)
	ENGINE1 15 A 4 3 5 7 6 1 1 CK
	ocv
	WIRING HARNESS-SIDE







PCM WIRING HARNESS-SIDE CONNECTOR

Λ		777	$\overline{}$	777	$\overline{\chi}$			777	$\overline{\nabla}$	777										7																
/		1EE	1E	:A 1[DW	1DS	1D0)1D	Kþ	DG	-	1DA	ICW	1CS	1C0	1CK	1CG	1CC	1BY	H	1BF	R 1BN	11BH	1BC	1AX	1AS	1AN	1AI	1/	4D 1	Υ	1T	10	1J	1E	1A
										DH		4	1 -	1 -			1CH	-			1BS	1BN	I 1BI	1BD	1AY	1AT	1AO	1AJ	1/	ΛE 1	Ζ	1U	1P	1K	1F	1B
	1BT 1BO 1BJ 1BE 1AZ 1AU 1AP 1AK 1AF 1AA 1V 1Q 1L 1G 1C																																			
	1EI	1EG	1E	C 1 [)Y	1DU	1DC	1DN	VI 1	DI	1DE	1DC	1CY	1CU	1CQ	1CM	1CI	1CE	1CA	1BW	1Bl	J 1BF	1BK	1BF	1BA	1AV	1AQ	1AL	1/	AG 1	AB	1W	1R	1M	1H	1D
$\langle \ $	1EJ	1EH	1E	D 10	DZ 1	1DV	1DF	R 1DN	N 1	DJ	1DF	1DD	1CZ	1CV	1CR	1CN	1CJ	1CF	1CB	1BX	1B\	1BC	1BL	1BG	1BB	1AW	1AR	1AM	1/	λH 1	AC	1X	1S	1N	11	
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Diagnostic Procedure

STEP	ostic Procedure 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 order, then go to the next step.
2	VERIFY RELATED SERVICE INFORMATION	Yes	Perform repair or diagnosis according to the available
	AVAILABILITY	163	Service Information.
	Verify related Service Information availability.	NIa	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 OCV CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	• Switch the ignition off.		Step 9.
	Disconnect the OCV connector.	No	Go to the next step.
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
4	INSPECT OCV POWER SUPPLY CIRCUIT FOR	Yes	Go to the next step.
	SHORT TO GROUND OR OPEN CIRCUIT	No	Inspect the ENGINE1 15 A fuse.
	Verify that the OCV connector is disconnected.		If the fuse is blown:
	Switch the ignition ON (engine off).		Repair or replace the wiring harness for a possible
	Measure the voltage at the OCV terminal A (wiring)		short to ground.
	harness-side).		 Replace the fuse.
	• Is the voltage B+ ?		If the fuse is deteriorated:
			 Replace the fuse.
			If the fuse is normal:
			Repair or replace the wiring harness for a possible
			open circuit.
			Go to Step 9.
5	INSPECT OCV SIGNAL CIRCUIT FOR SHORT	Yes	If the short to ground circuit could be detected in the wiring
	TO GROUND		harness:
	Verify that the OCV connector is disconnected.		Repair or replace the wiring harness for a possible short to
	Switch the ignition off.		ground.
	Inspect for continuity between OCV terminal B		If the short to ground circuit could not be detected in the
	(wiring harness-side) and body ground.		wiring harness:
	Is there continuity?		Replace the PCM (short to ground in the PCM internal
	•		circuit).
			(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
			2.2].)
			Go to Step 9.
		No	Go to the next step.
6	INSPECT PCM CONNECTOR CONDITION	Yes	·
	Disconnect the PCM connector.		Step 9.
	 Inspect for poor connection (such as damaged/ 	No	Go to the next step.
	pulled-out pins, corrosion).		
	• Is there any malfunction?		
7	INSPECT OCV SIGNAL CIRCUIT FOR OPEN	Yes	Go to the next step.
'	CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the OCV and PCM connectors are		circuit, then go to Step 9.
	disconnected.		3 3, a go to otop o.
	Inspect for continuity between OCV terminal B		
	(wiring harness-side) and PCM terminal 1CK		
	(wiring harness-side).		
	• Is there continuity?		
8	INSPECT OCV	Yes	Replace the OCV, then go to the next step.
	• Inspect the OCV.	163	(See OIL CONTROL VALVE (OCV) REMOVAL/
	(See OIL CONTROL VALVE (OCV) INSPECTION		INSTALLATION [SKYACTIV-D 2.2].)
	[SKYACTIV-D 2.2].)	No	Go to the next step.
	• Is there any malfunction?	INU	שט נט נוופ וופגנ אנפף.
	is those any manufolion!		

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?		