DTC P06DB:00 [SKYACTIV-D 2.2]

id0102s4213900

	IdU1U2842139L				
DTC P06DB: 00	Engine oil solenoid valve circuit low input				
 If the PCM detects that the engine oil solenoid valve voltage at the PCM terminal 1CH is 0.19 V or less for s with the following condition met, the PCM determines that the engine oil solenoid valve circuit voltage is low MONITORING CONDITIONS 					
	— Battery voltage: 8—20 V				
DETECTION	Diagnostic support note				
CONDITION	• This is a continuous monitor (CCM).				
	• 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.				
FAIL-SAFE	The fast idle up correction for the idle speed control is inhibited.				
FUNCTION	Inhibits engine-stop by operating the i-stop function.				
	Engine oil solenoid valve connector or terminals malfunction				
	Short to ground or open circuit in engine oil solenoid valve power supply circuit				
	Short to ground in wiring harness between ENGINE1 15 A fuse and engine oil solenoid valve terminal A				
ENGINE1 15 A fuse malfunction					
POSSIBLE	Open circuit in wiring harness between main relay terminal C and engine oil solenoid valve terminal A				
• Short to ground in wiring harness between engine oil solenoid valve terminal B and PCM terminal					
	• PCM connector or terminals malfunction				
	Open circuit in wiring harness between engine oil solenoid valve terminal B and PCM terminal 1CH				
	• Engine oil solenoid valve malfunction				
NAAI	• PCM malfunction N RELAY				
	RMINAL C. PCM				
	\sim 8				
	ENGINE OIL SOLENOID VALVE				
	ENGINE1 15 A 4 3 SOLENOID VALVE 3 507 6				
	ENGINET 13 A (4) (A) (B) (1CH)				
	ENGINE OIL COLENGID VALVE				
	ENGINE OIL SOLENOID VALVE WIRING HARNESS-SIDE				
CONNECTOR					
BA					
PCM WIRING HARNESS-SIDE CONNECTOR					
1EE 1EA 1DW 1DS 1DO 1DK 1DG 1DA 1CW 1CS 1CO 1CK 1CG 1CC 1BY 1BR 1BM 1BH 1BC 1AX 1AS 1AN 1AI 1AD 1Y 1T 1O 1J 1E 1A 1BS 1BN 1BI 1BD 1AY 1AT 1AO 1AJ 1AE 1Z 1U 1P 1K 1F 1B					
1EI 1EG	1EC 1DY 1DU 1DQ 1DM 1DI 1DE 1DC 1CY 1CU 1CQ 1CM 1CI 1CE 1CA 1BW 1BU 1BP 1BK 1BF 1BA 1AV 1AQ 1AL 1AG 1AB 1W 1R 1M 1H 1D				
1EJ 1EH	1ED 1DZ 1DV 1DR 1DN 1DJ 1DF 1DD 1CZ 1CV 1CR 1CN 1CJ 1CF 1CB 1BX 1BV 1BQ 1BL 1BG 1BB 1AW 1AR 1AM 1AH 1AC 1X 1S 1N 1I				

Diagnostic Procedure

STEP	TEP 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?		

VERIFY RELATED SERVICE INFORMATION AVAILABILITY	STEP	INSPECTION		ACTION
AVAILABILITY - Verify related Service Information availability Is any related Service Information availability Is any related Service Information available? - No 3 INSPECT ENGINE OIL SOLENOID VALVE CONNECTOR CONDITION - Switch the ignition off Disconnect the engine oil solenoid valve connector Inspect for poor connection (such as damaged/pulled-out pins, corrosion) Is there any malfunction? 4 INSPECT ENGINE OIL SOLENOID VALVE POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Verify that the engine oil solenoid valve connector is disconnected Switch the ignition ON (engine off) Measure the voltage B+? 5 INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR SHORT TO GROUND - Verify that the engine oil solenoid valve connector is disconnected Switch the ignition off Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and body ground Is there continuity? 5 INSPECT PCM CONNECTOR CONDITION - Disconnect the PCM connector Inspect for poor connection (such as damaged/pulled-out pins, corrosion), is there any malfunction? - Inspect for poor connection (such as damaged/pulled-out pins, corrosion), is there any malfunction? - Inspect for poor connection (such as damaged/pulled-out pins, corrosion), is there any malfunction? - Inspect for poor connection (such as damaged/pulled-out pins, corrosion), is there any malfunction? - Inspect for poor connection (such as damaged/pulled-out pins, corrosion), is there any malfunction? - Inspect for poor connection (such as damaged/pulled-out pins, corrosion), is there any malfunction? - Inspect for poor connection (such as damaged/pulled-out pins, corrosion), is there any malfunction? - Inspect for poor connection (such as damaged/pulled-out pins, corrosion), is there any malfunction? - Inspect for poor connection (such as damaged/pulled-out pins, corrosion), is there any malfunction? - Inspect for poor connection (such as damaged/pulled-out pins, corrosion), is there any malfunction? - Inspect for po			Yes	
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CONNECTOR CONDITION Switch the ignition off. Disconnect the engine oil solenoid valve connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? INSPECT ENGINE OIL SOLENOID VALVE POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT Verify that the engine oil solenoid valve connector is disconnected. Switch the ignition ON (engine off). Is the voltage at the engine oil solenoid valve terminal A (wiring harness-side). Is the voltage B+? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR SHORT TO GROUND Verify that the engine oil solenoid valve connector is disconnected. Switch the ignition off. Inspect for continuity between engine oil solenoid valve terminal 8 (wiring harness-side) and body ground. Is there continuity? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR CONDITION Disconnect the PCM connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT Verify that the engine oil solenoid valve terminal 8 (wiring harness-side) and PCM connectors are disconnected. Inspect for continuity between engine oil solenoid valve terminal 8 (wiring harness-side) and PCM connectors are disconnected. Inspect for continuity between engine oil solenoid valve terminal 8 (wiring harness-side) and PCM connectors are disconnected. Inspect for continuity between engine oil solenoid valve terminal 8 (wiring harness-side) and PCM terminal 1CH (wir	3	•		'
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connector: Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). Inspect For ENGIRE Oil SOLENOID VALVE POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT Verify that the engine oil solenoid valve connector is disconnected. Switch the ignition ON (engine off). Inspect the voltage B+? Signal Circuit For SHORT TO GROUND Verify that the engine oil solenoid valve terminal A (wiring harness-side). Inspect the ENGINE1 15 A fuse. If the fuse is blown: Repair or replace the wiring harness for a possible short to ground. Repair or replace the wiring harness for a possible open circuit. Repair or replace the wiring harness for a possible open circuit. Signal Circuit For SHORT TO GROUND Verify that the engine oil solenoid valve connector is disconnected. Switch the ignition off. Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and body ground. Is there continuity? INSPECT POM CONNECTOR CONDITION Disconnect the PCM connector: Inspect for poen connection (such as damaged/ pulled-out pins, corrosion). Inspect for solenoid valve and PCM connectors are disconnected. Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and PCM connectors are disconnected. Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and PCM connectors are disconnected. Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side) and PCM terminal			110	oo to the next step.
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pulled-out prins, corrosion) Is there any malfunction? 4 INSPECT ENGINE OIL SOLENOID VALVE POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Verify that the engine oil solenoid valve connector is disconnected Switch the ignition ON (engine off) Measure the voltage at the engine oil solenoid valve terminal A (wiring harness-side) Is the voltage B+? 5 INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR SHORT TO GROUND - Verify that the engine oil solenoid valve connector is disconnected Switch the ignition off Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and body ground Is there continuity? 6 INSPECT PCM CONNECTOR CONDITION - Disconnect the PCM connector Inspect for poor connection (such as damaged/pulled-out pins, corrosion) Is there any malfunction? 7 INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT - Verify that the engine oil solenoid valve terminal B (wiring harness-side) and PCM connectors are disconnected No - Inspect for poor connection (such as damaged/pulled-out pins, corrosion) Is there any malfunction? 7 INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT - Verify that the engine oil solenoid valve and PCM connectors are disconnected Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and PCM terminal 1CH (
Inspect Tengine Oil SOLENOID VALVE POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT (Inspect the engine oil solenoid valve connector is disconnected. Switch the ignition ON (engine off).				
INSPECT ENGINE OIL SOLENOID VALVE POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT Verify that the engine oil solenoid valve connector is disconnected. Switch the ignition ON (engine off). Measure the voltage at the engine oil solenoid valve terminal A (wiring harness-side). Is the voltage B+?				
POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT Verify that the engine oil solenoid valve connector is disconnected. Switch the ignition ON (engine off). Measure the voltage at the engine oil solenoid valve terminal A (wiring harness-side). Is the voltage B+? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR SHORT TO GROUND Verify that the engine oil solenoid valve connector is disconnected. Switch the ignition off. Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and body ground. Is there continuity? INSPECT PCM CONNECTOR CONDITION Disconnect the PCM connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT Verify that the engine oil solenoid valve and PCM connectors are disconnected. INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT Verify that the engine oil solenoid valve and PCM connectors are disconnected. Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side). INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT Verify that the engine oil solenoid valve and PCM terminal 1CH (wiring harness-side) and PCM terminal 1CH (wiring harness-side). INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT Verify that the engine oil solenoid valve and PCM terminal 1CH (wiring harness-side) and PCM terminal 1CH (wiring harness-side). Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Repair or replace the wiring harness for a possible open circuit, then go to Step 9.	4		Yes	Go to the next step.
Section of the engine oil solenoid valve connector is disconnected. Switch the ignition ON (engine off). Measure the voltage at the engine oil solenoid valve terminal A (wiring harness-side). Is the voltage B+? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR SHORT TO GROUND Switch the ignition off. Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and pody ground. INSPECT PCM CONNECTOR CONDITION Disconnect the PCM connector. Inspect for continuity? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR SHORT TO GROUND Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and pody ground. Is there continuity? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT Verify that the engine oil solenoid valve and PCM connectors are disconnected. Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side) and PCM terminal 1CH (wiring harness-side) and PCM terminal 1CH (wiring harness-side) and PCM terminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side) and PCM terminal 1CH (wiring harness-side) and PCM terminal 1CH (wiring harness-side). INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT Verify that the engine oil solenoid valve and PCM terminal 1CH (wiring harness-side) and PCM terminal 1CH (wiring harness-side). Inspect for continuity? Replace the fuse. If the fuse is blown: Replace the fuse. If the fuse is horized: Replace the fuse. If the fuse is t			No	
is disconnected. • Switch the ignition ON (engine off). • Measure the voltage at the engine oil solenoid valve terminal A (wiring harness-side). • Is the voltage B+? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR SHORT TO GROUND. • Verify that the engine oil solenoid valve terminal B (wiring harness-side) and body ground. • Is there continuity? INSPECT PCM CONNECTOR CONDITION • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the engine oil solenoid valve terminal B (wiring harness-side) and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the engine oil solenoid valve and PCM connectors are disconnected. • Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and PCM terminal 1CH (wiring ha				
is disconnected. • Switch the ignition ON (engine off). • Measure the voltage at the engine oil solenoid valve terminal A (wiring harness-side). • Is the voltage B+? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR SHORT TO GROUND • Verify that the engine oil solenoid valve terminal B (wiring harness-side) and body ground. • Is there continuity? INSPECT PCM CONNECTOR CONDITION • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the engine oil solenoid valve terminal B (wiring harness-side) and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the engine oil solenoid valve and PCM connectors are disconnected. • Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side) and PCM terminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side) and PCM terminal 1CH (wiring harness-side) and PCM terminal B (wiring harness-side) and PCM terminal B (wiring harness-side) and PCM terminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side) and PCM terminal B (wiring harn		Verify that the engine oil solenoid valve connector		Repair or replace the wiring harness for a possible
Switch the ignition ON (engine off). Measure the voltage at the engine oil solenoid valve terminal A (wiring harness-side). Is the voltage B+? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR SHORT TO GROUND Verify that the engine oil solenoid valve connector is disconnected. Switch the ignition off. Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and body ground. Is there continuity? INSPECT PCM CONNECTOR CONDITION Inspect for poor connection (such as damaged/ pulled-out pins, corrosion). Is there any malfunction? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT Verify that the engine oil solenoid valve and PCM connectors are disconnected. Inspect of continuity between engine oil solenoid valve terminal B (wiring harness-side) and body ground. Signal Circuit, one of the pcM connector. Inspect of continuity between engine oil solenoid valve terminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side). Inspect or continuity between engine oil solenoid valve terminal B (wiring harness-side). Inspect For continuity between engine oil solenoid valve terminal B (wiring harness-side). Inspect For continuity between engine oil solenoid valve terminal B (wiring harness-side). Inspect For continuity between engine oil solenoid valve terminal B (wiring harness-side). Inspect For continuity between engine oil solenoid valve terminal B (wiring harness-side). Inspect For continuity between engine oil solenoid valve terminal B (wiring harness-side). Inspect For continuity between engine oil solenoid valve terminal B (wiring harness-side). Inspect For continuity between engine oil solenoid valve terminal B (wiring harness-side). Sole to the next step. Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Sol to the next step. Repair or replace the wiring harness for a possible open circuit, then go to Step 9.				
Measure the voltage at the engine oil solenoid valve terminal A (wiring harness-side). Is the voltage B+? Inspect Engine Oil Solenoid Valve Signal Circuit For Pome Connector is disconnected. Inspect for continuity Programs of the PCM connector is consected to pould out the PCM connector is consected to the PCM connector is consected. Inspect For Connected to PCM connector is disconnected. Inspect For Connected to PCM connector is disconnected. Inspect For Connected to PCM connecter is disconnected. Inspect For Connecter is disconnected. Ins				
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- Repair or replace the wiring harness for a possible open circuit. Go to Step 9. INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR SHORT TO GROUND		valve terminal A (wiring harness-side).		 Replace the fuse.
open circuit. Go to Step 9. INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR SHORT TO GROUND • Verify that the engine oil solenoid valve connector is disconnected. • Switch the ignition off. • Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and body ground. • Is there continuity? INSPECT PCM CONNECTOR CONDITION • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/ pulled-out pins, cornosion). • Is there any malfunction? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the engine oil solenoid valve and PCM connectors are disconnected. • Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side). INSPECT ENGINE OIL SOLENOID VALVE • Is there continuity? Person of the short to ground circuit could not be detected in the wiring harness: • Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Go to the next step. Go to the next step. Repair or replace the connector and/or terminals, then go to Step 9. Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Repair or replace the viring harness for a possible open circuit, then go to Step 9. Repair or replace the wiring harness for a possible open circuit.		• Is the voltage B+ ?		If the fuse is normal:
So to Step 9. Step 9. Step 9. Ith short to ground circuit could be detected in the wiring harness: sidesonnected. Switch the ignition off.				Repair or replace the wiring harness for a possible
INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR SHORT TO GROUND • Verify that the engine oil solenoid valve connector is disconnected. • Switch the ignition off. • Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and body ground. • Is there continuity? INSPECT PCM CONNECTOR CONDITION • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the engine oil solenoid valve terminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side). • INSPECT ENGINE OIL SOLENOID VALVE steep engine oil solenoid valve terminal 1CH (wiring harness-side). • INSPECT ENGINE OIL SOLENOID VALVE • Is there continuity? Yes Repair or replace the wiring harness for a possible short to ground. If the short to ground circuit could be detected in the wiring harness: • Repair or replace the wiring harness for a possible short to ground. If the short to ground circuit could not be detected in the wiring harness: • Repair or replace the PCM (short to ground in the PCM internal circuit). (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step. Yes Go to the next step. No Go to the next step. No Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Repair or replace the engine oil solenoid valve, then go to the next step.				open circuit.
SIGNAL CIRCUIT FOR SHORT TO GROUND • Verify that the engine oil solenoid valve connector is disconnected. • Switch the ignition off. • Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and body ground. • Is there continuity? 6 INSPECT PCM CONNECTOR CONDITION • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? 7 INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the engine oil solenoid valve erminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side). 8 INSPECT ENGINE OIL SOLENOID VALVE 1 Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side). • Is there continuity? Pesson to the wiring harness: • Repair or replace the wiring harness for a possible short to ground. If the short to ground circuit could not be detected in the wiring harness: • Repair or replace the wiring harness: • Repair or replace the wiring harness: • Repair or replace the wiring harness for a possible short to ground. If the short to ground. If the short to ground circuit could not be detected in the wiring harness: • Replace the PCM (short to ground in the PCM in the wiring harness: • Replace the PCM (short to ground in the PCM in the wiring harness: • Replace the PCM (short to ground in the PCM in the wiring harness: • Replace the PCM (short to ground in the PCM in the wiring harness: • Replace the PCM (short to ground. If the short to ground. If t				Go to Step 9.
Verify that the engine oil solenoid valve connector is disconnected. Switch the ignition off. Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and body ground. Is there continuity? INSPECT PCM CONNECTOR CONDITION Disconnect the PCM connector.	5	INSPECT ENGINE OIL SOLENOID VALVE	Yes	If the short to ground circuit could be detected in the wiring
is disconnected. Switch the ignition off. Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and body ground. If the short to ground circuit could not be detected in the wiring harness: 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. Yes Repair or replace the connector and/or terminals, then go to Step 9. No Go to the next step. INSPECT PCM CONNECTOR CONDITION Disconnect the PCM connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT Verify that the engine oil solenoid valve and PCM connectors are disconnected. Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side). Is there continuity? Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Repair or replace the wiring harness for a possible open circuit, then go to Step 9.				harness:
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7 INSPECT ENGINE OIL SOLENOID VALVE SIGNAL CIRCUIT FOR OPEN CIRCUIT • Verify that the engine oil solenoid valve and PCM connectors are disconnected. • Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side). • Is there continuity? 8 INSPECT ENGINE OIL SOLENOID VALVE Yes Go to the next step. Repair or replace the wiring harness for a possible open circuit, then go to Step 9. Repair or replace the wiring harness for a possible open circuit, then go to Step 9.				
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 Verify that the engine oil solenoid valve and PCM connectors are disconnected. Inspect for continuity between engine oil solenoid valve terminal B (wiring harness-side) and PCM terminal 1CH (wiring harness-side). Inspect For continuity? INSPECT ENGINE OIL SOLENOID VALVE 	'			
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• Is there continuity? 8 INSPECT ENGINE OIL SOLENOID VALVE Yes Replace the engine oil solenoid valve, then go to the next				
8 INSPECT ENGINE OIL SOLENOID VALVE Yes Replace the engine oil solenoid valve, then go to the next				
	8		Yes	Replace the engine oil solenoid valve, then go to the next
Inspect the engine oil solenoid valve. step.		Inspect the engine oil solenoid valve.		
(See ENGINE OIL SOLENOID VALVE (See ENGINE OIL SOLENOID VALVE REMOVAL/				(See ENGINE OIL SOLENOID VALVE REMOVAL/
INSPECTION [SKYACTIV-D 2.2].) INSTALLATION [SKYACTIV-D 2.2].)				INSTALLATION [SKYACTIV-D 2.2].)
• Is there any malfunction? No Go to the next step.		Is there any malfunction?	No	Go to the next 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?		