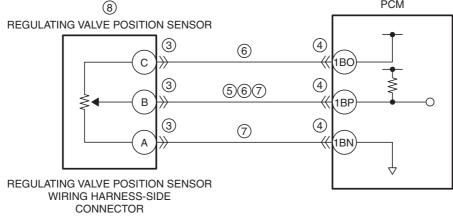
DTC P2565:00	Regulating valve position sensor circuit high input
	• If the input voltage at the PCM terminal 1BP is more than 4.9 V for 1 s , the PCM determines that the regulating
	valve position sensor circuit has a malfunction.
	MONITORING CONDITIONS
	— Battery voltage: 8—20 V
DETECTION	Diagnostic 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	Inhibits engine-stop by operating the i-stop function.
FUNCTION	PCM restricts engine-transaxle integration control.
	Regulating valve position sensor connector or terminals malfunction
	PCM connector or terminals malfunction
	• Short to power supply in wiring harness between regulating valve position sensor terminal B and PCM terminal 1BP
POSSIBLE	Regulating valve position sensor power supply circuit and signal circuit are shorted to each other
CAUSE	Open circuit in wiring harness between the following terminals:
	Regulating valve position sensor terminal B—PCM terminal 1BP
	Regulating valve position sensor terminal A—PCM terminal 1BN
	Regulating valve position sensor malfunction
	• PCM malfunction
	(8) PCM





PCM WIRING HARNESS-SIDE CONNECTOR

(2111111111111111111111111111111111111			
1EE 1EA IDW 1DS 1DO 1DK 1DG	1DAICWICSICOICKICGICCIBY	1BR1BM1BH1BC1AX1AS1AN1AI	1AD 1Y 1T 1O 1J 1E 1A
1EF 1EB 1DX 1DT 1DP 1DL 1DH	1DB 1CX 1CT 1CP 1CL 1CH 1CD 1BZ	1BS 1BN 1BI 1BD 1AY 1AT 1AO 1AJ	1AE 1Z 1U 1P 1K 1F 1B
		1BT 1BO 1BJ 1BE 1AZ 1AU 1AP 1AK	1AF 1AA 1V 1Q 1L 1G 1C
1EI 1EG1EC1DY1DU1DQ1DM1DI 1E	DE1DC1CY1CU1CQ1CM1CI1CE1CA1BW	1BU 1BP 1BK 1BF 1BA 1AV 1AQ 1AL	1AG 1AB 1W 1R 1M 1H 1D
1EJ 1EH 1ED 1DZ 1DV 1DR 1DN 1DJ 10	F1DD1CZ1CV1CR1CN1CJ1CF1CB1BX	1BV 1BQ 1BL 1BG 1BB 1AW 1AR 1AM	1AH 1AC 1X 1S 1N 1I
		_	

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)/	INO	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	103	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.
	INSPECT REGULATING VALVE POSITION		
3		Yes	Repair or replace the connector and/or terminals, then go to Step 9.
	SENSOR CONNECTOR CONDITION	Nia	·
	Switch the ignition off. Disconnect the regulating valve position concerns.	No	Go to the next step.
	Disconnect the regulating valve position sensor connector.		
	• Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	• Is there any malfunction?	\/	Description of the control of the co
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).		
	• Is there any malfunction?	.,	
5	INSPECT REGULATING VALVE POSITION	Yes	Go to the next step.
	SENSOR CIRCUIT FOR SHORT TO POWER	No	Repair or replace the wiring harness for a possible short to
	SUPPLY		power supply, then go to Step 9.
	Verify that the regulating valve position sensor		
	and PCM connectors are disconnected.		
	Switch the ignition ON (engine off).		
	Measure the voltage at the regulating valve		
	position sensor terminal B (wiring harness-side).		
	• Is the voltage 0 V ?		
6	INSPECT REGULATING VALVE POSITION	Yes	Repair or replace the wiring harness for a possible short to
	SENSOR POWER SUPPLY CIRCUIT AND		each other, then go to Step 9.
	SIGNAL CIRCUIT FOR SHORT TO EACH OTHER	No	Go to the next step.
	Verify that the regulating valve position sensor and DCM connectors are disconnected.		
	and PCM connectors are disconnected.		
	• Switch the ignition off.		
	• Inspect for continuity between regulating valve		
	position sensor terminals C and B (wiring harness-		
	side).		
7	• Is there continuity?	Voo	Co to the payt stan
7	INSPECT REGULATING VALVE POSITION	Yes	
	SENSOR CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the regulating valve position sensor and PCM connectors are disconnected.		circuit, then go to Step 9.
	Inspect for continuity between the following terminals (wiring harness-side):		
	Regulating valve position sensor terminal B— ROM terminal ARR		
	PCM terminal 1BP		
	Regulating valve position sensor terminal A— PCM terminal 1BN		
0	• Is there continuity?	Voc	Poplace the regulating valve estrictor, then as to the result
8	INSPECT REGULATING VALVE POSITION SENSOR	Yes	, , , ,
			step.
	Reconnect all disconnected connectors.		(See TURBOCHARGER REMOVAL/INSTALLATION
	• Inspect the regulating valve position sensor.	NI.	[SKYACTIV-D 2.2].)
	(See REGULATING VALVE POSITION SENSOR	No	Go to the next step.
	INSPECTION [SKYACTIV-D 2.2].)		
	Is there any malfunction?		

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?		