

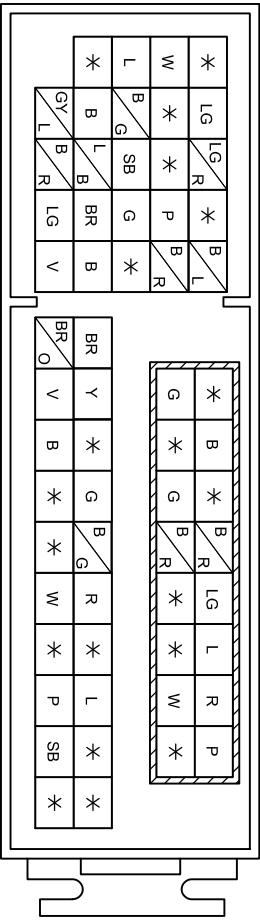
0140-1a

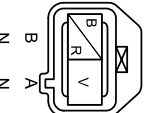
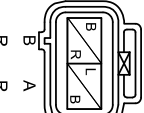
PCM

— — — — —

PCM

2BE	2AZ	2AU	2AP	2AK	2AE	2AA	2W	2S	2O	2K	2G	2C
2BF	2BA	2AV	2AQ	2AL	2AF	2AB	2X	2T	2P	2L	2H	2D

[illegible]

0140-102 PURGE SOLENOID VALVE	0140-103 OIL CONTROL VALVE					
						

Oil control valve (OCV) [SKYACTIV-G 2.0]

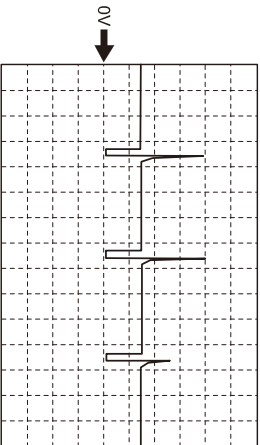
Measure the resistance between terminals A and B using an ohmmeter.
OCV coil resistance
6.9—7.5 ohms [20°C {68°F}]

PCM terminal voltage table (reference)

Terminal	Test condition	Voltage (V)	Terminal	Test condition	Voltage (V)
1AI	(See Purge control .)		1DA	Ignition switched ON (engine off)	B+
1AN	(See Hydraulic variable valve timing control signal .)		1DG	Ignition switched ON (engine off)	B+
1CK	Ignition switched ON (engine off)	B+	1DK	Ignition switched ON (engine off)	B+
1CO	Ignition switched ON (engine off)	B+	2H	Ignition switched ON (engine off)	B+
1CS	Ignition switched ON (engine off)	B+	2K	Ignition switched ON (engine off)	Approx. 0.87
1CW	Ignition switched ON (engine off)	B+	2O	Under any condition	B+

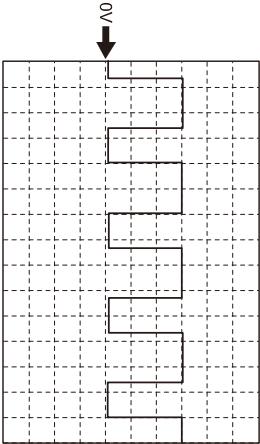
Inspection using an oscilloscope (reference)

- Purge control
PCM terminals
- 1AI(+)—body ground(—)
- Oscilloscope setting
- 10 V/DIV (Y), 50 ms/DIV (X), DC range
- Vehicle condition
- Racing (engine speed is 2,000 rpm)



Inspection using an oscilloscope (reference)

- Hydraulic variable valve timing control signal
PCM terminals
- 1AN(+)—body ground(—)
- Oscilloscope setting
- 5 V/DIV (Y), 1 ms/DIV (X), DC range
- Vehicle condition
- Idle (after warm up and no load)



PURGE SOLENOID VALVE

- The purge solenoid valve introduces evaporative gas absorbed by the charcoal canister to the intake manifold.
- The purge solenoid valve opens/closes the valve according to the control signal from the PCM.

OIL CONTROL VALVE

- The OCV operates according to a signal from the PCM depending on the engine operation conditions and switches the hydraulic passage to the hydraulic variable valve timing actuator.

[BLACK]
PURGE SOLENOID VALVE
0140-102

[BLACK]
OIL CONTROL VALVE
0140-103

MAIN FUSE
(REFER TO 00F SECTION)
F-03

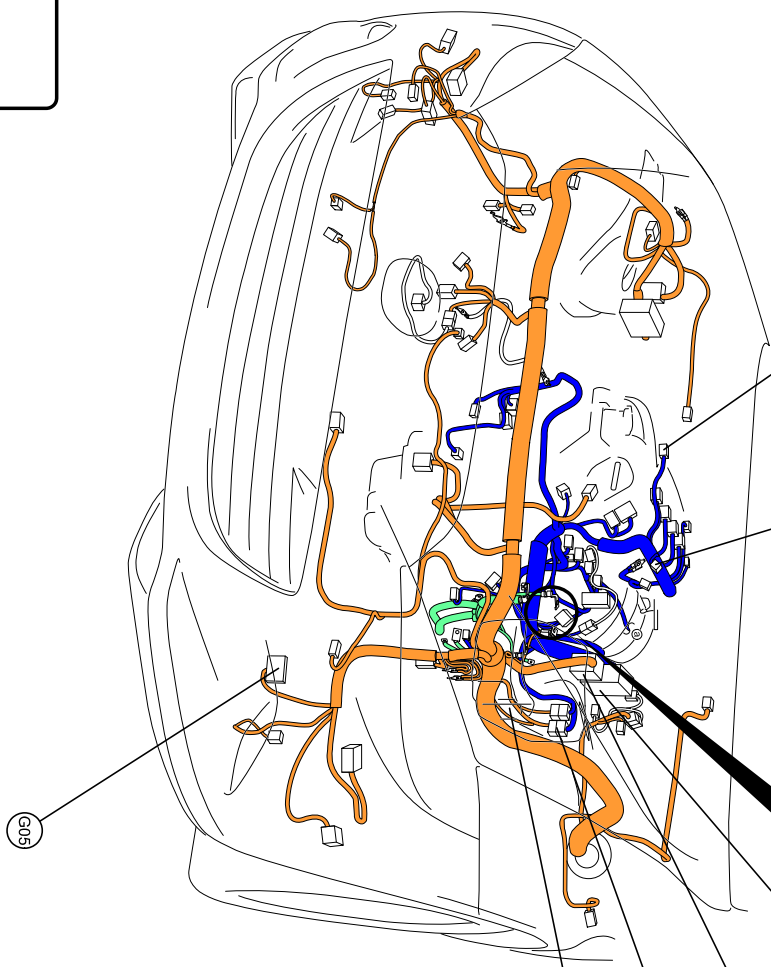
- PCM**
- High-level driveability and lower fuel consumption have been achieved by controlling the appropriate engine conditions (fuel injection/ignition timing) according to operation conditions.
 - Controls each output part based on the signal from each input part.
 - The control descriptions are as shown below.

[BLACK]
PCM
0140-101A

[BLACK]
PCM
0140-101B

(F)-(EM)
C-01

RELAY AND FUSE BLOCK
(REFER TO 00F SECTION)
F-01



: FRONT HARNESS

: ENGINE HARNESS

: ENGINE No.2 HARNESS

: EMISSION HARNESS

G05