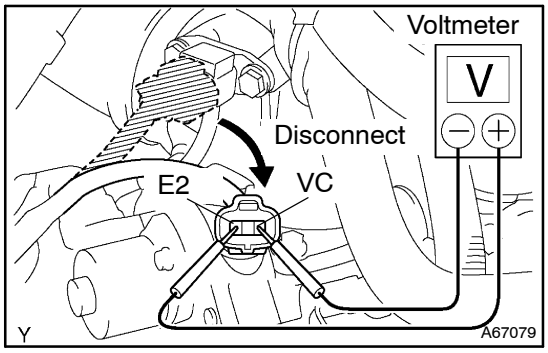
ECD SYSTEM (5L–E)

ON–VEHICLE INSPECTION

100C6–01

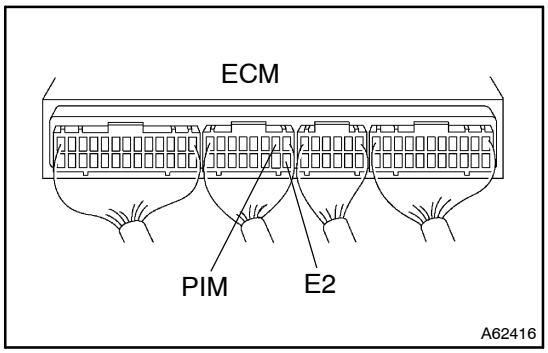


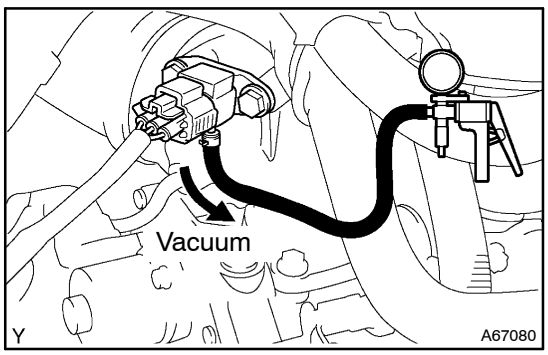
1. INSPECT MANIFOLD ABSOLUTE PRESSURE SENSOR

(a) Inspect power source voltage.
(1) Disconnect the sensor connector.
(2) Turn the ignition switch ON.
(3) Using a voltmeter, measure the voltage between connector terminals VC and E2 of the wiring harness side.

Voltage: 4.5 – 5.5 V

(4) Turn the ignition switch OFF.
(5) Reconnect the sensor connector.

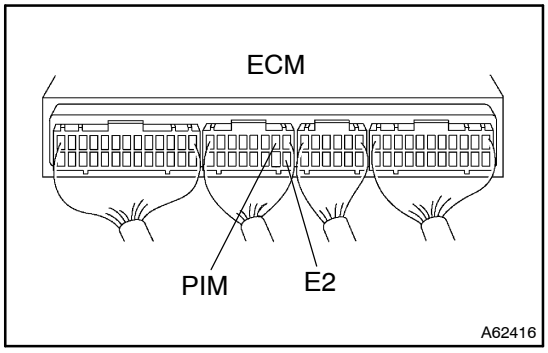


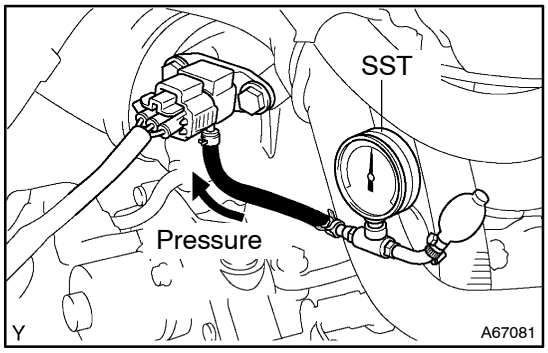


(b) Inspect supply power.
(1) Turn the ignition switch ON.
(2) Disconnect the vacuum hose from the sensor.
(3) Connect a voltmeter to terminals 2 (PIM) and 9 (E2) of the ECM connector, and measure the output voltage under ambient atmospheric pressure.
(4) Apply vacuum to the sensor in 13.3 kPa (100 mmHg, 3.94 in.Hg) segments to 40.0 kPa (300 mmHg, 11.81 in.Hg).
(5) Measure the voltage drop from step (3) above for each segment.

Voltage drop:

Applied Vacuum kPa (mmHg, in.Hg)	Voltage drop V
13.3 (100, 3.94)	0.3 – 0.5
26.7 (200, 7.87)	0.6 – 0.8
40.0 (300, 11.81)	0.95 – 1.15





(6) Using SST (turbocharger pressure gauge), apply pressure to the sensor in 19.6 kPa (0.20 kgf·cm^2, 2.84 psi) segments to 98.0 kPa (1.00 kgf·cm^2, 14.2 psi).

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(7) Measure the voltage up from step (3) above for each segment.

Voltage up:

Applied pressure kPa (kgf·cm^2, psi)	Voltage up V
19.6 (0.20, 2.84)	0.4 – 0.7
39.2 (0.40, 5.69)	0.9 – 1.2
58.8 (0.60, 8.53)	1.5 – 1.8
78.5 (0.80, 11.4)	2.0 – 2.3
98.0 (1.00, 14.2)	2.5 – 2.8

(8) Reconnect the vacuum hose to the sensor.

2. INSPECT ACCELERATOR PEDAL ROD ASSY (ACCELERATOR PEDAL POSITION SENSOR)

(a) Connect the hand–held tester to the DLC3.

(b) Turn the ignition switch ON.

(c) Check that the voltage (ACCEL POS) of the CURRENT DATA shown the standard value.
Accelerator pedal released: 0.3 – 0.9 V
Accelerator pedal depress: 3.2 – 4.8 V

(d) Check that the voltage (ACCEL POS #2) of the CURRENT DATA shown the standard value.
Accelerator pedal released: 1.8 – 2.7 V
Accelerator pedal depress: 4.5 – 5.5 V

If you have no hand–held tester, measure voltage between terminals (VPA – EPA, VPA2 – EPA2) of the ECM connector (See page 05–208).