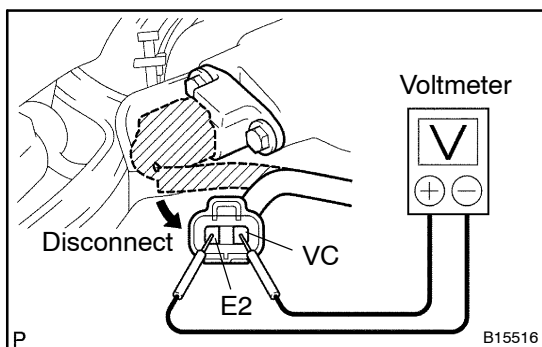




INTAKE AIR PRESSURE SENSOR INSPECTION

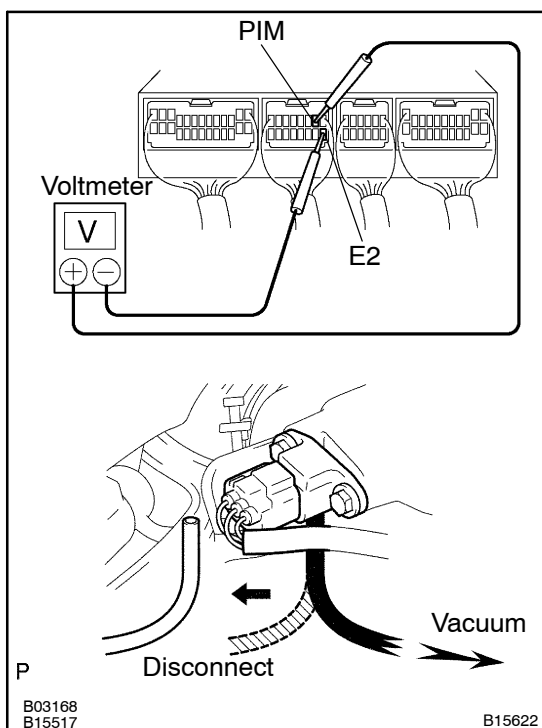
ED04N-03

1. INSPECT POWER SOURCE VOLTAGE OF INTAKE AIR PRESSURE SENSOR

- Disconnect the sensor connector.
- Turn the ignition switch ON.
- Using a voltmeter, measure the voltage between connector terminals VC and E2 of the wiring harness side.

Voltage: 4.75 – 5.25 V

- Turn the ignition switch OFF.
- Reconnect the sensor connector.

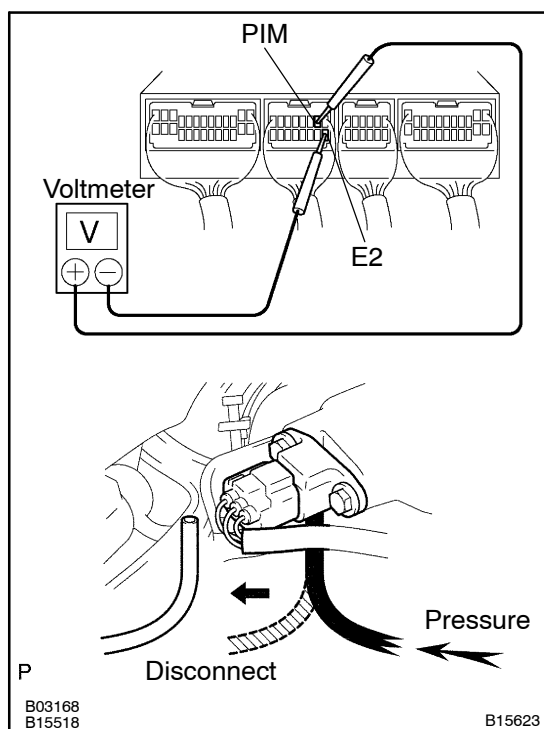


2. INSPECT SUPPLY POWER OF INTAKE AIR PRESSURE SENSOR

- Turn the ignition switch ON.
- Disconnect the vacuum hose from the sensor.
- Connect a voltmeter to terminals PIM and E2 of the engine ECU, and measure the output voltage under ambient atmospheric pressure.
- 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).
- Measure the voltage drop from step (c) above for each segment.

Voltage drop:

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



- (f) Using SST (turbocharger pressure gauge), apply pressure to the intake air pressure sensor in 19.6 kPa (0.20 kgf/cm², 2.84 psi) segments to 98.0 kPa (1.00 kgf/cm², 14.2 psi).

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- (g) Measure the voltage up from step (c) above for each segment.

Voltage up:

Applied pressure	Voltage up
19.6 kPa (0.20 kgf/cm ² , 2.84 psi)	0.4 – 0.7 V
39.2 kPa (0.40 kgf/cm ² , 5.69 psi)	0.8 – 1.2 V
58.8 kPa (0.60 kgf/cm ² , 8.53 psi)	1.4 – 1.8 V
78.5 kPa (0.80 kgf/cm ² , 11.4 psi)	2.0 – 2.3 V
98.0 kPa (1.00 kgf/cm ² , 14.2 psi)	2.5 – 2.8 V

- (h) Reconnect the vacuum hose to the sensor.