

## TURBO PRESSURE SENSOR INSPECTION

TC03X-01

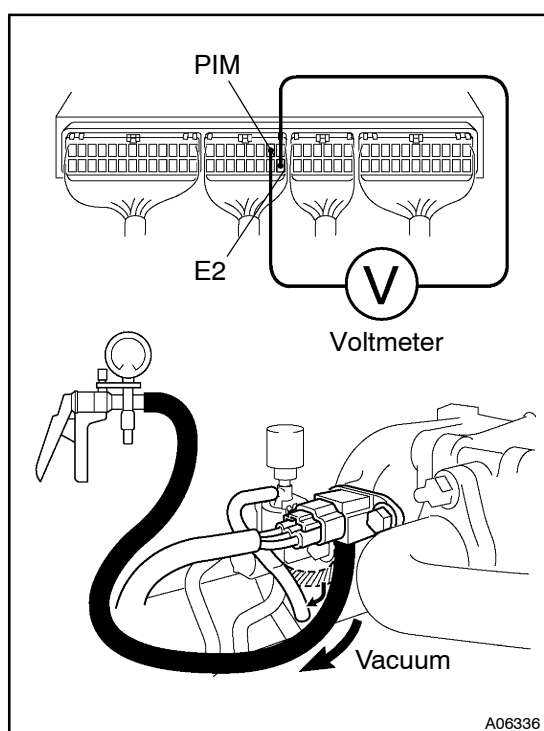
### 1. INSPECT POWER SOURCE VOLTAGE OF TURBO PRESSURE SENSOR

- Disconnect the turbo pressure 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 turbo pressure sensor connector.

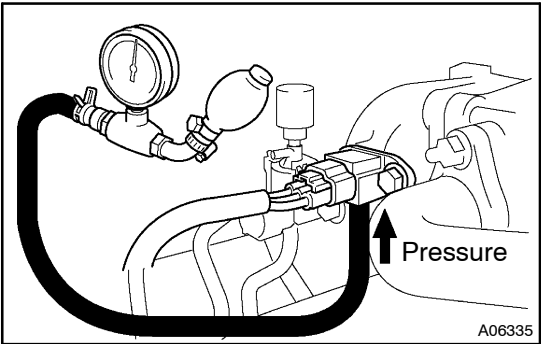


### 2. INSPECT SUPPLY POWER OF TURBO PRESSURE SENSOR

- Turn the ignition switch ON.
- Disconnect the vacuum hose from the turbo pressure sensor.
- Connect a voltmeter to terminals PIM and E2 of the ECU, and measure the output voltage under ambient atmospheric pressure.
- Apply vacuum to the turbo pressure sensor in 13.3 kPa (100 mmHg, 3.94 in.Hg) segments to 66.7 kPa (500 mmHg, 19.69 in.Hg).
- Measure the voltage drop from step (c) above for each segment.

**Voltage drop:**

Applied vacuum kPa ( mmHg ) ( in.Hg )	13.3 ( 100 ) ( 3.94 )	26.7 ( 200 ) ( 7.87 )	40.0 ( 300 ) ( 11.81 )
Voltage drop V	0.1 – 0.3	0.3 – 0.5	0.5 – 0.7



- (f) Using SST (turbocharger pressure gauge), apply pressure to the turbo pressure sensor in 9.8 kPa (0.1 kgf/cm<sup>2</sup>, 1.4 psi) segments to 49.0 kPa (0.50 kgf/cm<sup>2</sup>, 7.1 psi).
- SST 09992 –00241
- (g) Measure the voltage up from step (c) above for each segment.

**Voltage up:**

Applied pressure kPa (kgf/cm <sup>2</sup> psi)	19.6 (0.20 2.84)	39.2 (0.40 5.69)	58.8 (0.60 8.53)	78.5 (0.80 11.4)	98.0 (1.00 14.2)
Voltage up V	0.15 – 0.45	0.4 – 0.7	0.7 – 1.0	1.0 – 1.3	1.3 – 1.6

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