

TURBO PRESSURE SENSOR (1HD-FTE) INSPECTION

TC02D-01

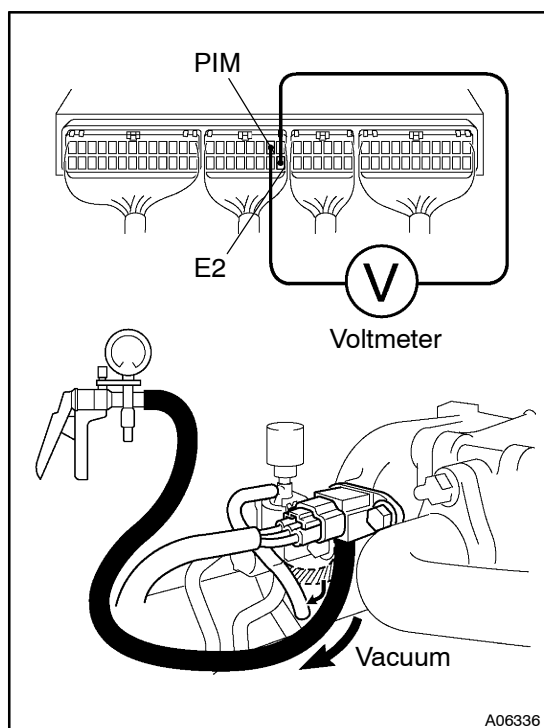
1. INSPECT POWER SOURCE VOLTAGE OF TURBO PRESSURE SENSOR

- 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.

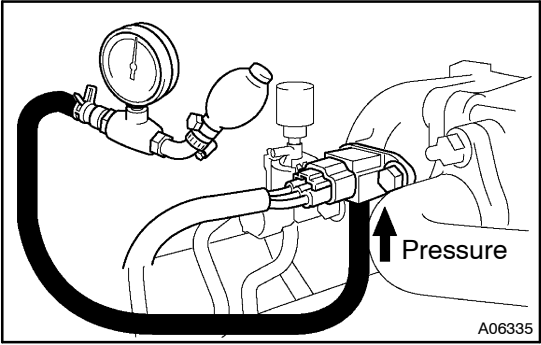


2. INSPECT SUPPLY POWER OF TURBO PRESSURE SENSOR

- 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 (0.10 kgf/cm², 1.4 psi) segments to 49.0 kPa (0.50 kgf/cm², 7.1 psi).

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

Voltage up:

Applied pressure kPa (kgf/cm²) (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.