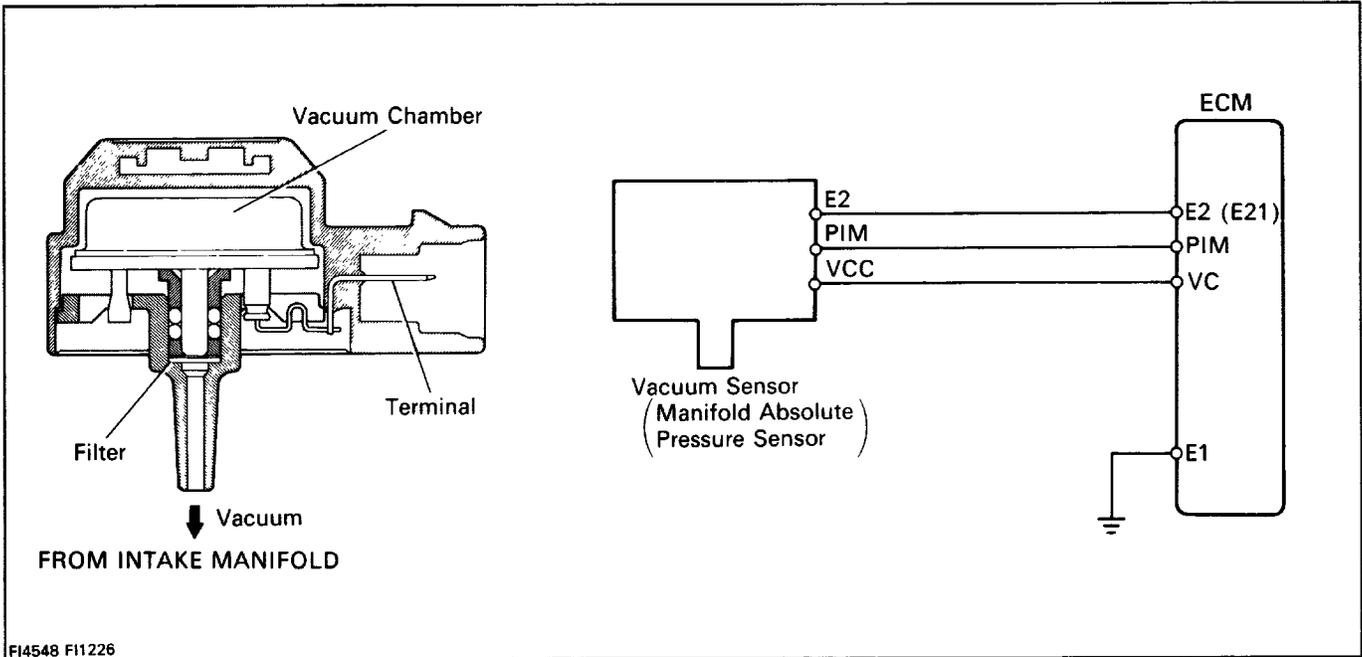
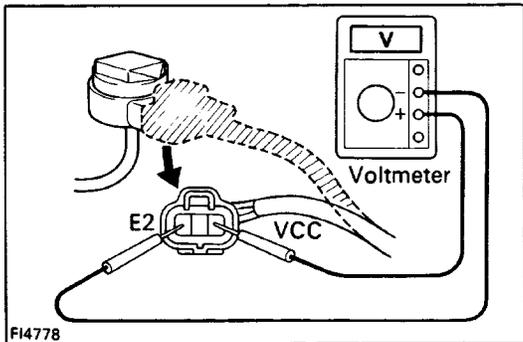


Vacuum Sensor (Manifold Absolute Pressure Sensor) (5S-FE)



FI4548 FI1226



FI4778

INSPECTION OF VACUUM SENSOR

1. INSPECT POWER SOURCE VOLTAGE OF VACUUM SENSOR

- (a) Disconnect the vacuum sensor connector.
- (b) Turn the ignition switch ON.
- (c) Using a voltmeter, measure the voltage between connector terminals VCC and E2 of the wiring harness side.

Voltage: 4.5 – 5.5 V

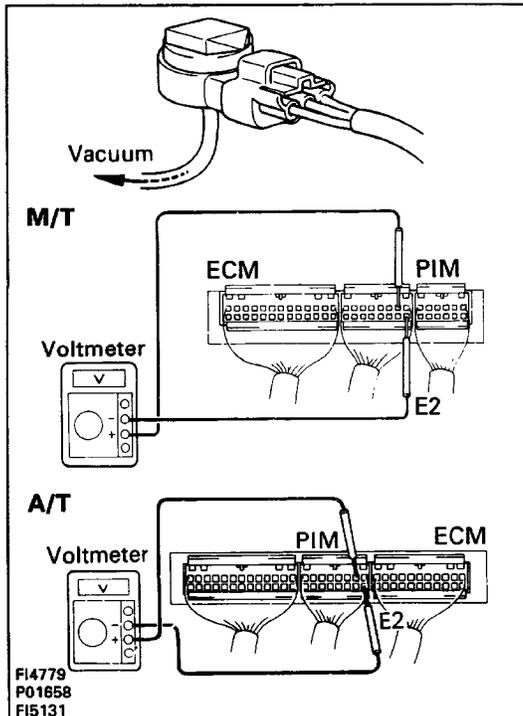
- (d) Reconnect the vacuum sensor connector.

2. INSPECT POWER OUTPUT OF VACUUM SENSOR

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

Voltage drop:

Applied Vacuum kPa	13.3	26.7	40.0	53.5	66.7
mmHg	(100)	(200)	(300)	(400)	(500)
in.Hg	(3.94)	(7.87)	(11.81)	(15.75)	(19.69)
Voltage drop (V)	0.3–0.5	0.7–0.9	1.1–1.3	1.5–1.7	1.9–2.1



FI4779
P01658
FI5131