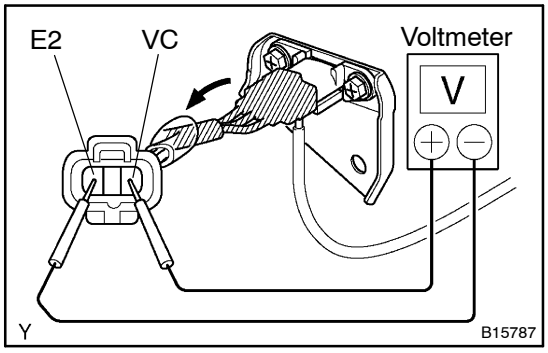


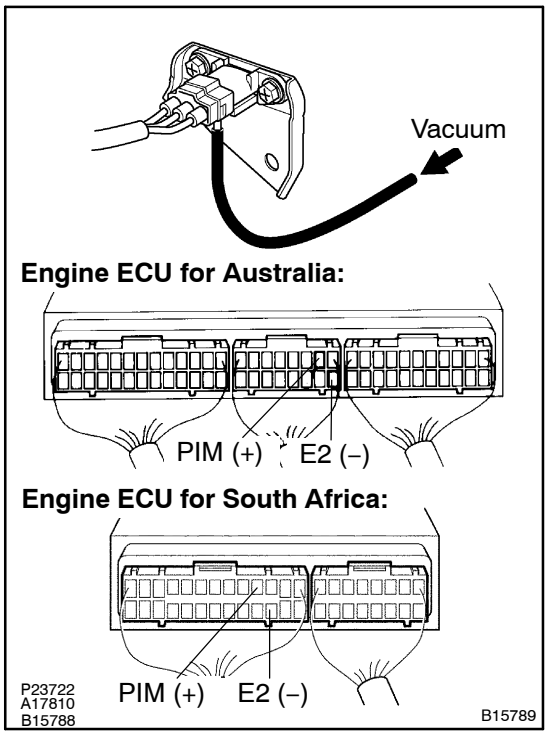
VACUUM SENSOR

FI0ZL–01

INSPECTION

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 VC and E2 of the wire harness side.
Voltage: 4.5 – 5.5 V
(d) Turn the ignition switch OFF.
(e) Reconnect the vacuum sensor connector.



2. INSPECT POWER OUTPUT OF VACUUM SENSOR

(a) Turn the ignition switch ON.
(b) Disconnect the vacuum hose from the gas filter.
(c) Connect a voltmeter to terminals PIM and E2 of the engine ECU, and measure the output voltage under ambient engine 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 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)	0.7 – 0.9 V
40.0 kPa (300 mmHg, 11.81 in.Hg)	1.1 – 1.3 V
53.5 kPa (400 mmHg, 15.75 in.Hg)	1.5 – 1.7 V
66.7 kPa (500 mmHg, 19.69 in.Hg)	1.9 – 2.1 V

(f) Reconnect the vacuum hose to the gas filter.