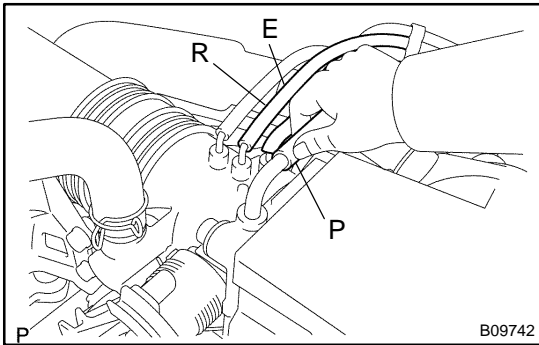


THROTTLE BODY ON-VEHICLE INSPECTION

SF03H-03

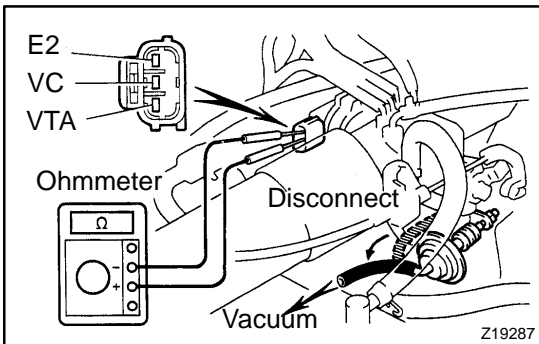
1. INSPECT THROTTLE BODY

- (a) Check that the throttle linkage moves smoothly.



- (b) Check the vacuum at each port.
 - Start the engine.
 - Check the vacuum with your finger.

Port name	At idle	At 3,500 rpm
P	Vacuum	Vacuum
E	No vacuum	Vacuum
R	No vacuum	Vacuum

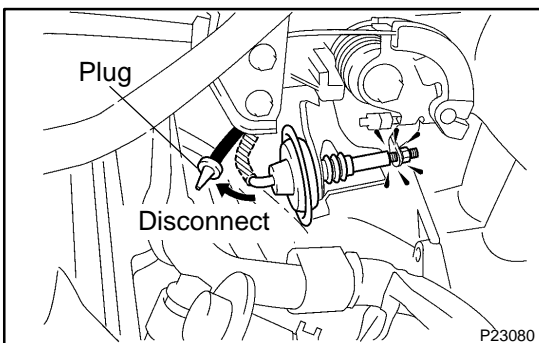


2. INSPECT THROTTLE POSITION SENSOR

- (a) Disconnect the sensor connector.
- (b) Apply vacuum to the throttle opener.
- (c) Using an ohmmeter, measure the resistance between each terminal.

Throttle valve condition	Between terminals	Resistance
Fully closed	VTA - E2	0.2 - 5.7 kΩ
Fully open	VTA - E2	2.0 - 10.2 kΩ
-	VC - E2	2.5 - 5.9 kΩ

- (d) Reconnect the sensor connector.



3. INSPECT THROTTLE OPENER

- (a) Allow the engine to warm up to normal operating temperature.
- (b) Check the idle speed.
Idle speed: 650 - 750 rpm
- (c) Disconnect the vacuum hose from the throttle opener, and plug the hose end.
- (d) Check the throttle opener setting speed.
Throttle opener setting speed: 1,200 - 1,500 rpm

If the throttle opener setting is not as specified, replace the throttle body.

- (e) Stop the engine.
- (f) Reconnect the vacuum hose to the throttle opener.
- (g) Start the engine, and check that the idle speed returns to the correct speed.
- (h) Disconnect TOYOTA hand-held tester or OBDII scan tool.