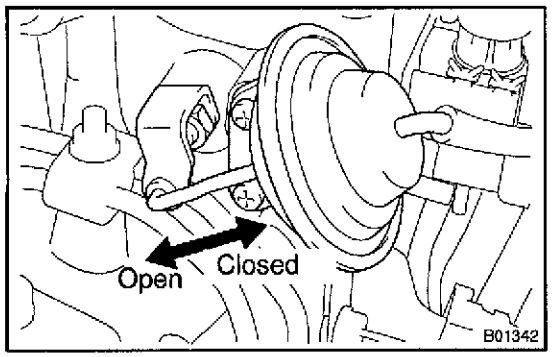


INTAKE SHUTTER (5L)

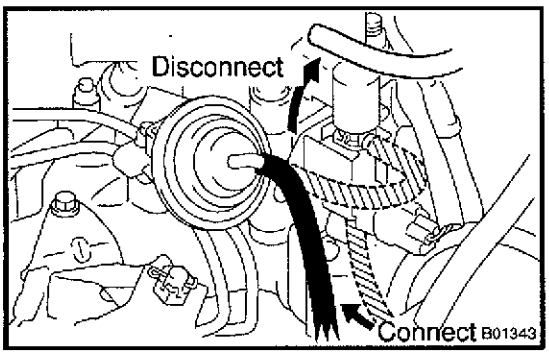
EM05B-01

INSPECTION

1. INSPECT INTAKE SHUTTER OPERATION

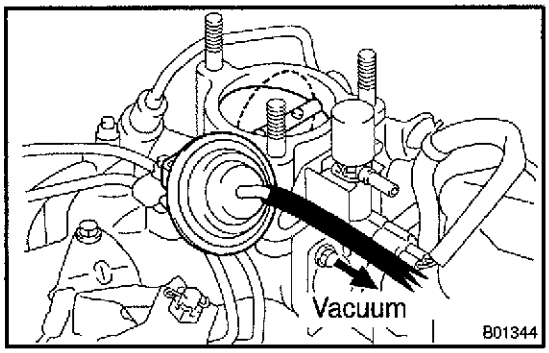
(a) Start the engine.
(b) When running the engine, check the diaphragm rod is fully open position.
(c) When the engine stops (IG OFF), check that the diaphragm rod is fully closed position.
(d) A few seconds after the engine stops (IG OFF), check that the diaphragm rod is fully open position.

EM



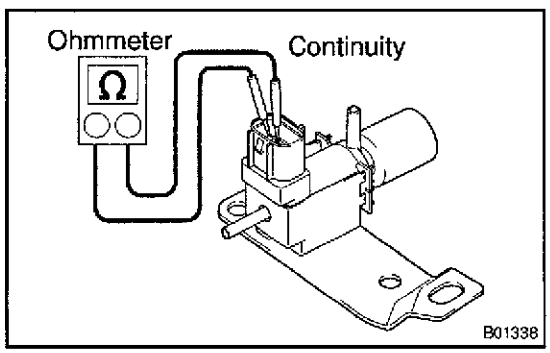
2. INSPECT VENTURI

(a) Start the engine.
(b) Disconnect the vacuum hose from the actuator.
(c) Apply vacuum directly to the actuator with the engine idling.
(d) Check that the engine runs rough or dies.
(e) Reconnect the vacuum hoses to the proper locations.



3. INSPECT THROTTLE VALVE

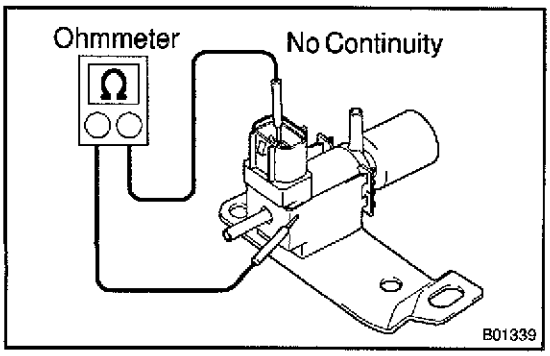
(a) Remove the 3 nut, intake flange and gasket.
(b) Fully close the throttle valve, and check that it return smoothly.
(c) Apply at least 29.3 kPa (220 mmHg, 8.66 in.Hg) of vacuum to the actuator.
(d) Check that the vacuum does not drop immediately.
(e) Install a new gasket and the intake flange with the 3 nuts.
Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)



4. INSPECT VSV

(a) Remove the VSV.
(b) Inspect the VSV for open circuit.
Using an ohmmeter, check that there is continuity between the terminals.
Resistance: 37 – 44 Ω at 20°C (68°F)

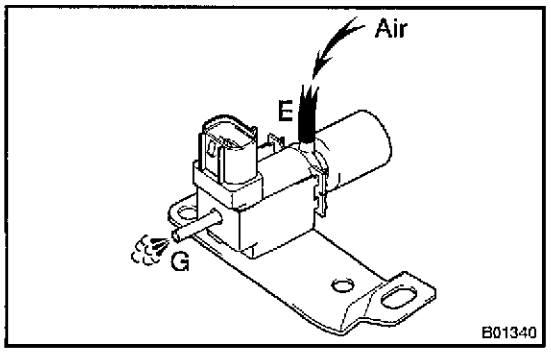
If there is no continuity, replace the VSV.



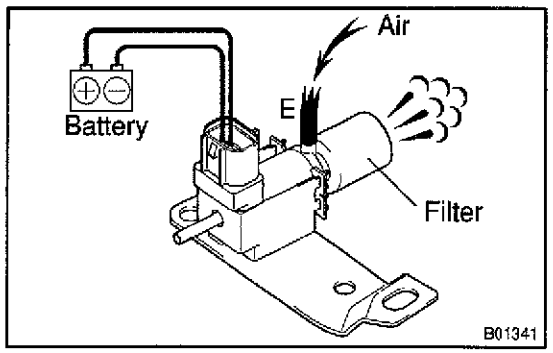
(c) Inspect the VSV for ground.
Using an ohmmeter, check that there is no continuity between each terminal and the body.

If there is continuity, replace the VSV.

EM



(d) Inspect the VSV operation.
(1) Check that air flows from ports E to G.



(2) Apply battery voltage across the terminals.
(3) Check that air flows from port E to the filter.

If operation is not as specified, replace the VSV.