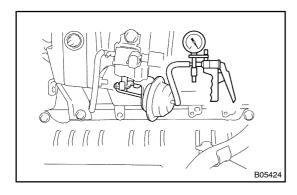


INTAKE SHUTTER (1HD-FTE) ON-VEHICLE INSPECTION

EM0W8-0

1. INSPECT INTAKE SHUTTER

(a) Check that the intake shutter linkage moves smoothly.

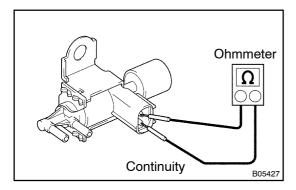


- (b) Check that the diaphragm rod is pulled up when a vacuum of approx. 60 kPa (450 mmHg, 17.72 in.Hg) is applied to the actuator.
- (c) Apply approx. 60 kPa (450 mmHg, 17.72 in.Hg) of vacuum directly to the actuator with the engine idling.
- (d) Check that the engine runs rough or dies.

NOTICE:

Connect the actuator vacuum hose.

- (e) Reconnect the hoses to the proper locations.
- 2. REMOVE VSV FOR INTAKE SHUTTER

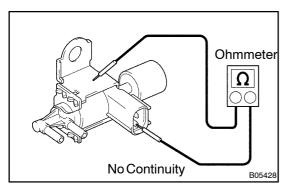


3. INSPECT VSV FOR OPEN CIRCUIT

Using an ohmmeter, measure the resistance between the terminals.

Resistance: 33 – 39 Ω at 20 °C (68 °F)

If the resistance is not within specification, replace the VSV.

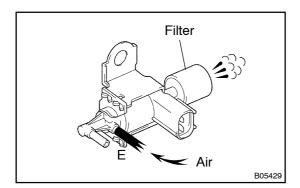


4. INSPECT VSV FOR GROUND

Using an ohmmeter, check that there is no continuity between the terminals and VSV body. $\label{eq:continuity}$

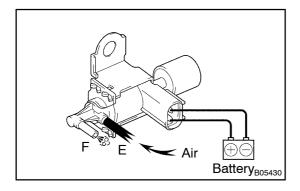
If there is continuity, replace the VSV.

1HZ, 1HD-T, 1HD-FTE ENGINE (RM6 17E)



5. INSPECT VSV OPERATION

(a) Check that air flows from port E to the filter.



- (b) Apply battery voltage across the terminals.
- (c) Check that air flows from port E to F. If operation is not as specified, replace the VSV.