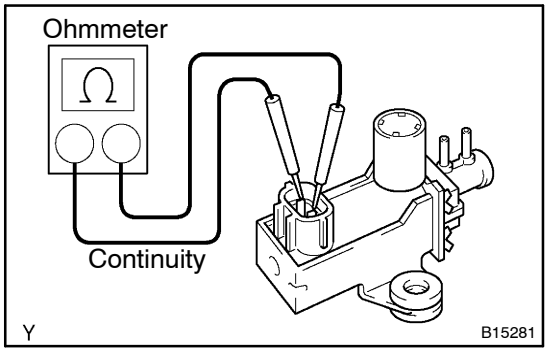
EC09H–03

INSPECTION

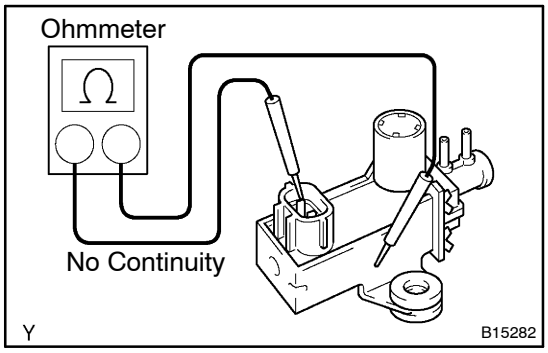


1. INSPECT E–VRV FOR OPEN CIRCUIT

Using an ohmmeter, measure the resistance between terminals as shown.

Resistance: 11 – 13 Ω at 20°C (68°F)

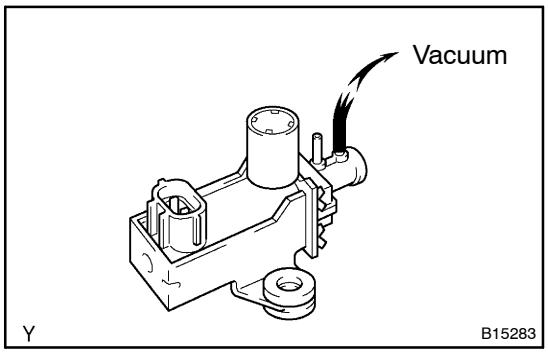
If the resistance is not specified, replace the E–VRV.



2. INSPECT E–VRV FOR GROUND

Using an ohmmeter, check that there is no continuity between terminals and E–VRV body.

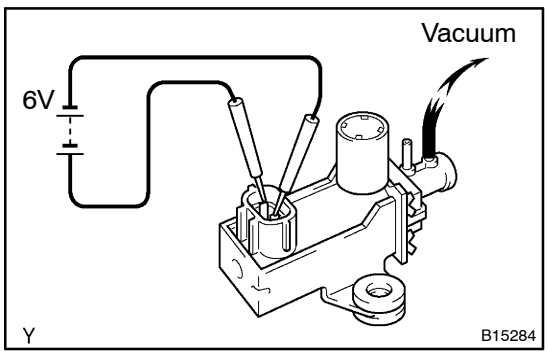
If there is continuity, replace the E–VRV.



3. INSPECT E–VRV FOR AIR TIGHTNESS

Check that when vacuum is applied to the vacuum outlet port shown, the needle of vacuum pump indicates an increase of 86.7 kPa (650 mmHg, 25.6 in. Hg) or more.

If a problem is found, replace the E–VRV

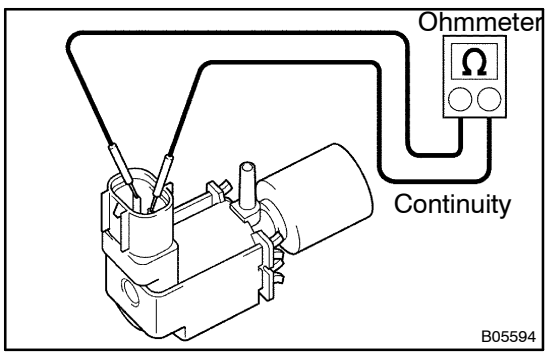


4. INSPECT E–VRV OPERATION

(a) Apply about 6 V of DC power to the terminals.

(b) Check that when vacuum is applied to the vacuum outlet port shown, the needle does not move.

If operation is not as specified, replace the E–VRV.

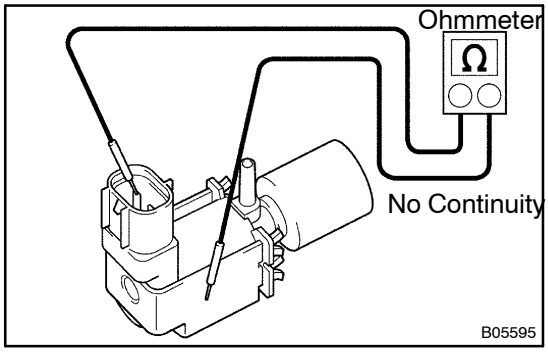


5. INSPECT VSV FOR OPEN CIRCUIT

Using an ohmmeter, check that there is continuity between terminals.

Resistance: 37 – 44 Ω at 20°C (68°F)

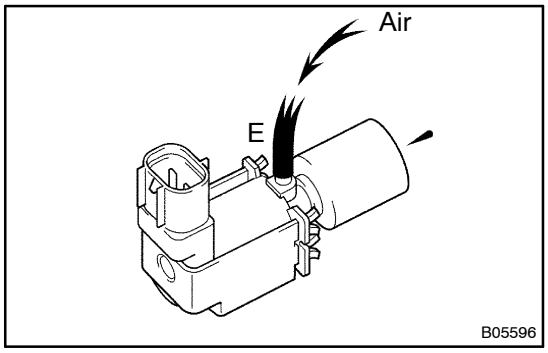
If there is no continuity, replace the VSV



6. INSPECT VSV FOR GROUND

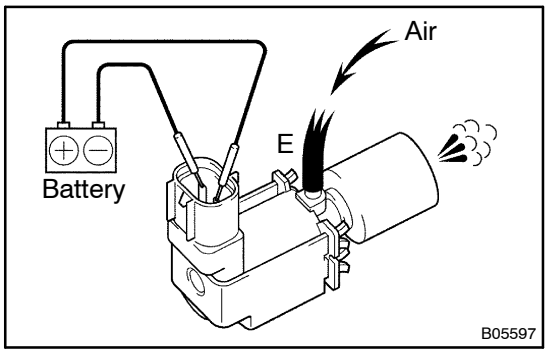
Using an ohmmeter, check that there is no continuity between terminals and body.

If there is continuity, replace the VSV.



7. INSPECT VSV OPERATION

(a) Check that air does not flows from port E to the filter.



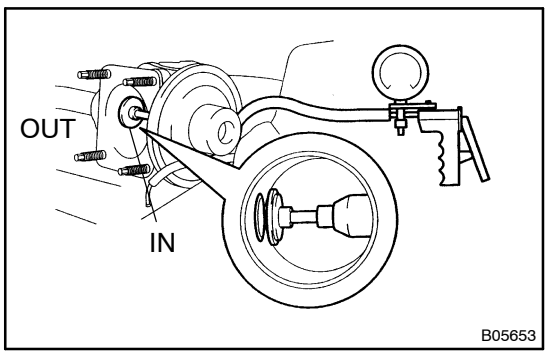
(b) Apply battery voltage across the terminals.

(c) Check that air flows from ports E to filter.

If operation is not as specified, replace the VSV.

8. INSPECT EGR VALVE

(a) Remove the EGR valve.



(b) Under the condition of applying the vacuum to the diaphragm chamber, check if there is ventilation between IN and OUT.

Standard:

Less than 13 kPa (100 mmHg, 3.8 in. Hg)
No ventilation
More than 27 kPa (200 mmHg, 8.0 in. Hg)
With ventilation

(c) When applying more than 67 kPa (500 mmHg, 19 in. Hg) of the vacuum, check if there is any leakage of the vacuum.

(d) Check the valve for sticking and heavy carbon deposits.

If a problem is found, replace it.

(e) Reinstall the EGR valve with the new gasket.

9. INSPECT ACCELERATOR PEDAL POSITION SENSOR (See Pub. No. RM617E, on page DI–27, DI–34 and DI–39)

10. INSPECT ENGINE SPEED SENSOR (See Pub. No. RM617E, on page FU–113)

11. INSPECT INTAKE AIR TEMPERATURE SENSOR (See Pub. No. RM617E, on page ED–7)

12. INSPECT WATER TEMPERATURE SENSOR (See Pub. No. RM617E, on page ED–5)

13. INSPECT TURBO PRESSURE SENSOR (See page TC–13)