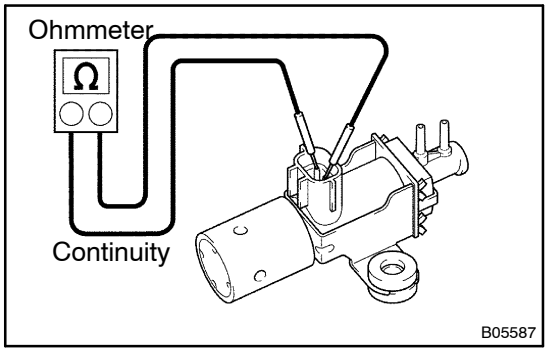
EC0AB–02

INSPECTION

1. INSPECT E–VRV FOR EGR

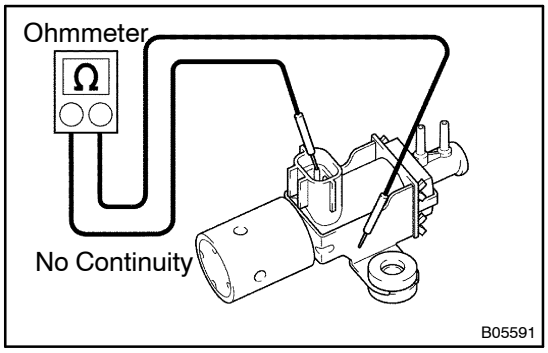
(a) Inspect the E–VRV for open circuit.
Using an ohmmeter, measure the resistance between terminals as shown.
Resistance: 46 – 50 Ω at 20˚C (68˚F)

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



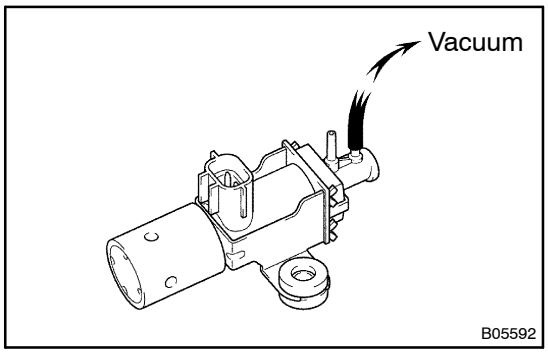
(b) Inspect the E–VRV for ground.
Check that the there is no continuity between terminals and E–VRV body.

If there is continuity, replace the E–VRV.



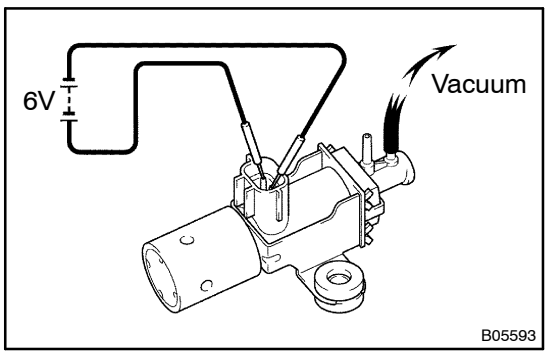
(c) Inspect the E–VRV for air tightness.
Check that when vacuum is applied to the vacuum outlet port shown, the needle of vacuum pump indicates an increase of 66.7 kPa (500 mmHg, 19.7 in.Hg) or more.

If a problem is found, replace the E–VRV.



(d) Inspect the E–VRV operation.
(1) Apply about 6 V of DC power to terminals.
(2) Check that when vacuum is applied to the vacuum outlet port shown, the need does not move.

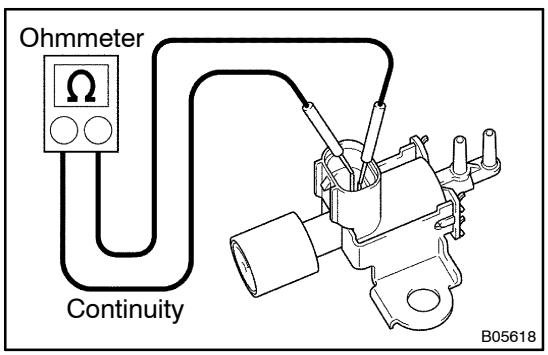
If operation is not as specified, replace the E–VRV.

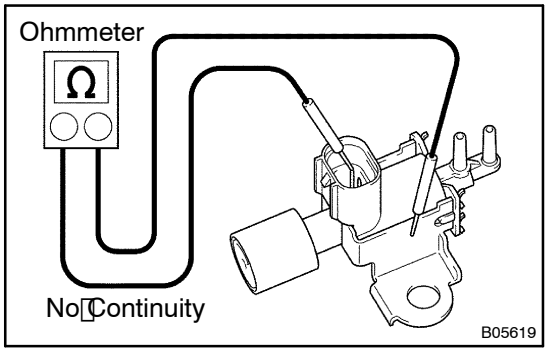


2. INSPECT EGR CUT VSV

(a) Inspect the VSV for open circuit.
Using an ohmmeter, check that there is continuity between terminals.
Resistance: 135 – 155 Ω at 20˚C (68˚F)

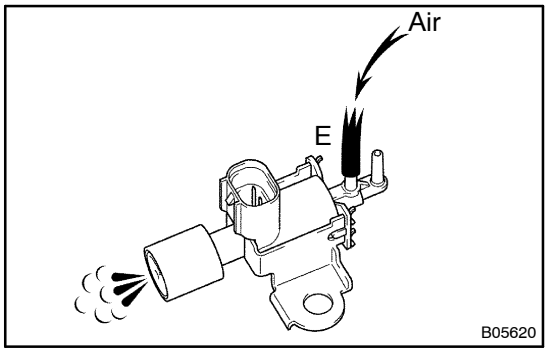
If there is no continuity, replace the VSV.



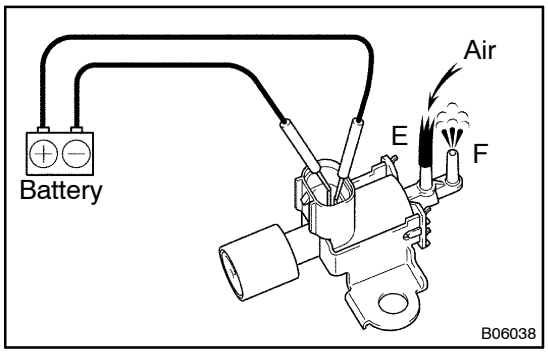


(b) Inspect the VSV for ground.
Check that there is no continuity between terminals and VSV body.

If there is continuity, replace the VSV.



(c) Inspect the VSV operation.
(1) Check that air flows from port E to filter.

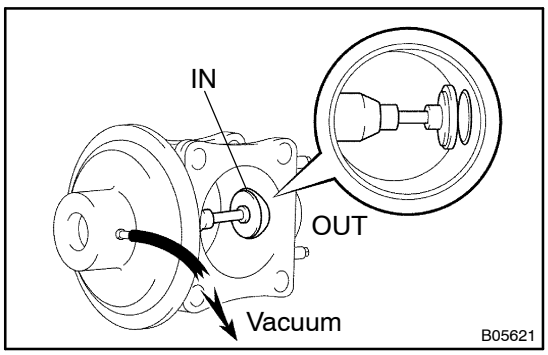


(2) Apply battery voltage across terminals.
(3) Check that air flows from ports E to F.

If operation is not specified, replace the VSV.

3. 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:

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

(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 2 new gaskets.

4. INSPECT THROTTLE POSITION SENSOR (See page DI–22)

5. INSPECT PICKUP SENSOR (See Pub. No.RM172E)

6. INSPECT EMISSION ECU

(a) Remove the emission ECU.
LOCATION: See relay locations in Electrical Wiring Diagram.

(b) Inspect the emission ECU. (See page DI–11)

(c) Reinstall the emission ECU.