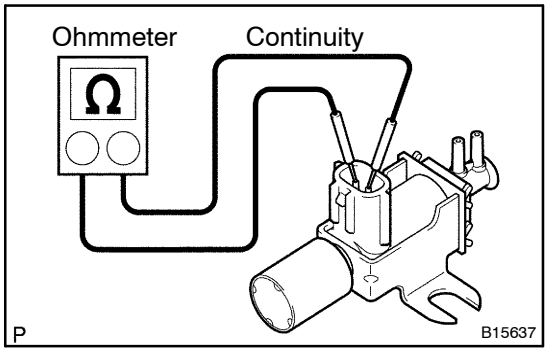
EC0LR–01

INSPECTION

1. INSPECT E–VRV

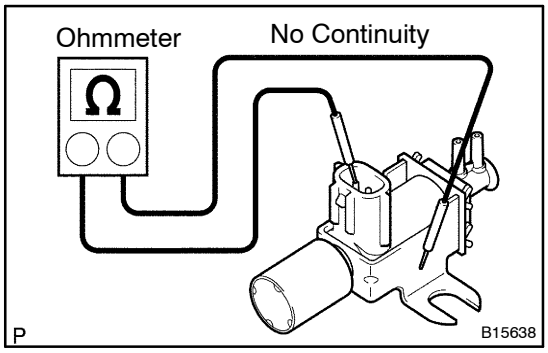
(a) Inspect the E–VRV for open circuit.
Using an ohmmeter, measure the resistance between terminals as shown.
Resistance: 11 – 13 Ω at 20°C (68°F)

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



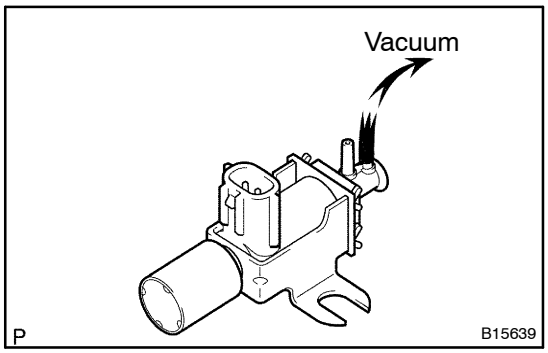
(b) Inspect the E–VRV for ground.
Using an ohmmeter, check that there is no continuity between terminals and E–VRV body.

If there is continuity, replace the E–VRV.



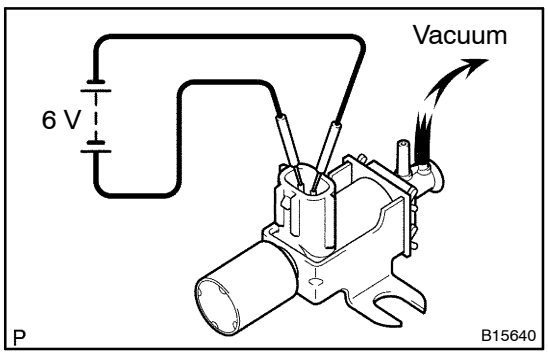
(c) Inspect the E–VRV for air tightness.
Check that when vacuum is applied to the vacuum outlet port shown, the needle of vacuum pump indicates an increase of 66.7 kPa (500 mmHg, 19.7 in. Hg) or more.

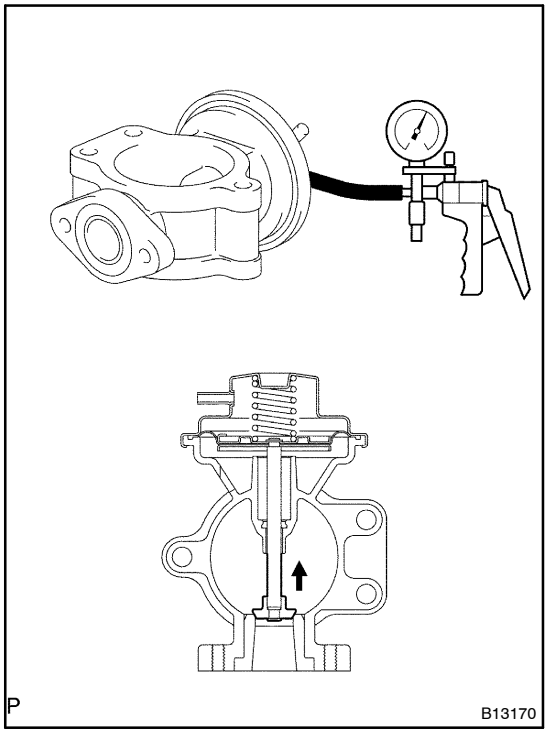
If a problem is found, replace the E–VRV



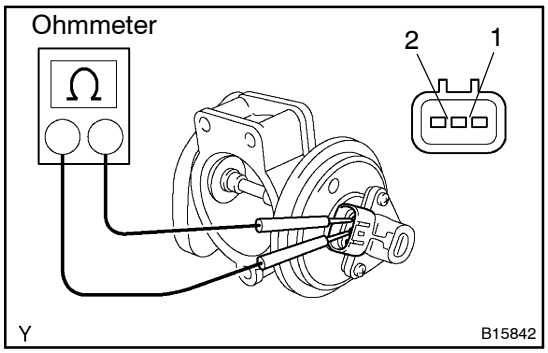
(d) Inspect the E–VRV operation.
(1) Apply about 6 V of DC power to the terminals.
(2) Check that when vacuum is applied to the vacuum outlet port shown, the need does not move.

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



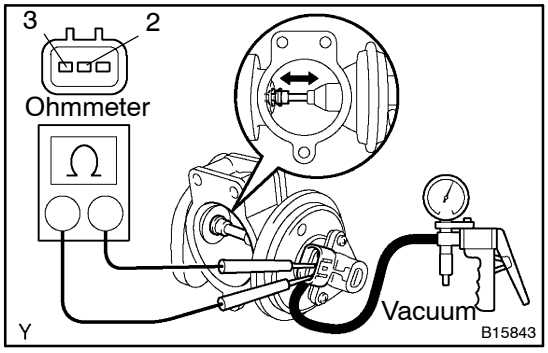


(e) When a vacuum of 26.7 kPa (200 mmHg, 7.87 in.Hg) is applied to the diaphragm chamber, check that the shaft rises up and that air flows from IN to OUT.
(f) Maintain the above conditions, and check again that there are no leaks.
(g) Check the valve for sticking and heavy carbon deposits.
If a problem is found, replace it.
(h) Reinstall the EGR valve with the new gasket.



2. INSPECT EGR POSITION SENSOR

(a) Using an ohmmeter, check the resistance between terminals 1 and 2 of the EGR lift sensor.
Resistance: 2.6 kΩ at 20°C (68°F)



(b) Apply vacuum to the diaphragm chamber and then check each resistance between terminals of 3 and 2 of the lift sensor when the valve is fully opened and also when fully closed.
Resistance:

EGR Valve	Resistance
Fully opened	0.6 kΩ at 20°C (68°F)
Fully closed	2.2 kΩ at 20°C (68°F)

HINT:
The resistance valve increases in proportion to the opening angle of the EGR valve.

3. INSPECT ACCELERATOR POSITION SENSOR
(See page DI–32, DI–38 and ED–21)

4. INSPECT INTAKE AIR TEMPERATURE SENSOR
(See page ED–14)

5. INSPECT WATER TEMPERATURE SENSOR
(See page ED–12)

6. INSPECT CAMSHAFT POSITION SENSOR
(See page ED–18)

7. **INSPECT CRANKSHAFT POSITION SENSOR (See page ED–19)**
8. **INSPECT AIR FLOW METER (See page ED–3)**