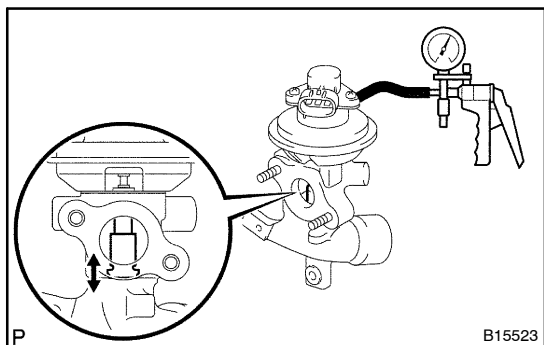




INSPECTION

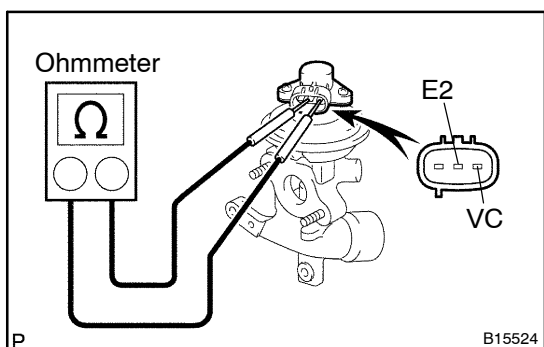
1. INSPECT EGR VALVE AND LIFT SENSOR

- (a) Remove the EGR adaptor.
- (b) Remove the EGR valve.
- (c) Check the EGR valve.
 - (1) Under the condition of applying the vacuum to the diaphragm chamber, check the valve operation.

Vacuum	EGR Valve
Less than 13 kPa (100 mmHg, 3.8 in. Hg)	Closed
More than 27 kPa (200 mmHg, 8.0 in. Hg)	Open

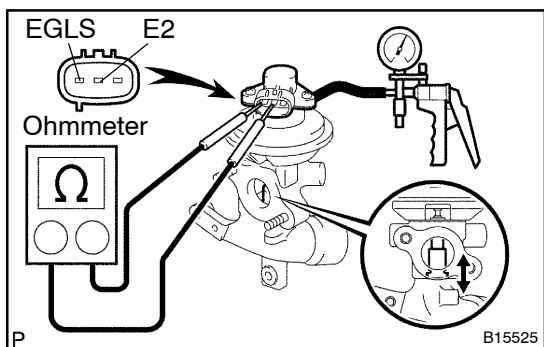
- (2) When applying more than 67 kPa (500 mmHg, 19 in.Hg) of the vacuum, check if there is any leakage of the vacuum.
- (3) Check the valve for sticking and heavy carbon deposits.

If a problem is found, replace it.



- (d) Check the EGR valve lift sensor.
 - (1) Using an ohmmeter, check the resistance between terminals VC and E2 of the EGR lift sensor.

Resistance: 2 – 6 kΩ at 20°C (68°F)



- (2) Apply vacuum to the diaphragm chamber and then check each resistance between terminals of EGLS and E2 of the lift sensor when the valve is fully opened and also when fully closed.

Resistance (at 20°C (68°F)):

EGR Valve	Resistance
Fully opened	0.5 – 7 kΩ
Fully closed	2 – 10 kΩ

HINT:

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

- (e) Reinstall the EGR valve.
 - (1) Connect the EGR valve to the EGR pipe.
 - (2) Install the EGR valve to the intake manifold with the 2 bolts.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

- (3) Tighten the EGR pipe union nut.

Torque: 108 N·m (1,100 kgf·cm, 80 ft·lbf)

- (f) Reinstall the new gasket and EGR adaptor with the 4 bolts.

Torque: 19 N·m (195 kgf·cm, 14 ft·lbf)

2. INSPECT E-VRV FOR EGR (See page ED-9)
3. INSPECT ACCELERATOR PEDAL POSITION SENSOR (See page DI-31)
4. INSPECT ENGINE SPEED SENSOR (See page ED-16)
5. INSPECT INTAKE AIR TEMPERATURE SENSOR (See page ED-13)
6. INSPECT WATER TEMPERATURE SENSOR (See page ED-10)
7. INSPECT THROTTLE FULL SWITCH (See page ED-3)
8. INSPECT THROTTLE CONTROL MOTOR (See page ED-3)