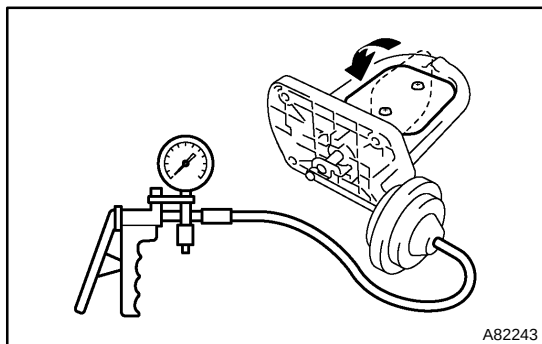
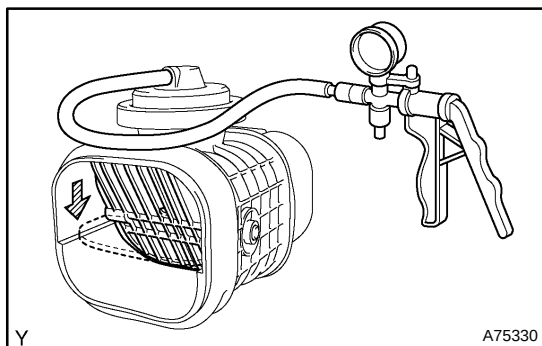


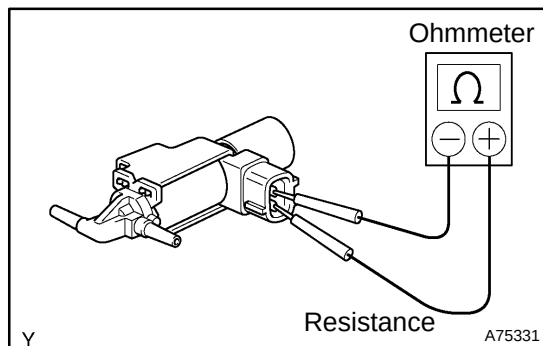
INSPECTION



1. **INSPECT INTAKE AIR CONTROL VALVE ASSY NO.2**
 - (a) With 26.7 kPa (200 mm Hg, 7.9 in. Hg) of vacuum applied to the actuator, check that the actuator rod moves.
 - (b) One minute after applying the vacuum, check that the actuator rod does not return.
 - (c) If the operation is not as specified, replace the intake air control valve assembly No.2.



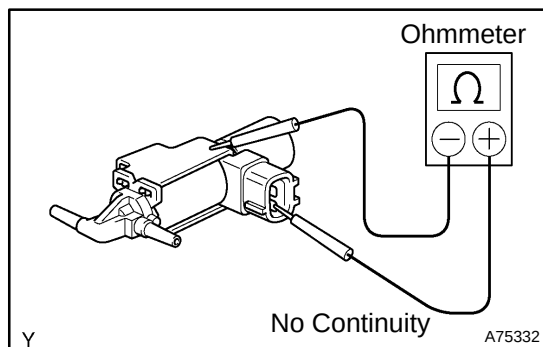
2. **INSPECT INTAKE AIR CONTROL VALVE ASSY NO.3**
 - (a) Inspect actuator operation
 - (1) With 26.7 kPa (200 mm Hg, 7.9 in. Hg) of vacuum applied to the actuator, check that the actuator rod moves.
 - (2) One minute after applying the vacuum, check that the actuator rod does not return.
 - (3) If the operation is not as specified, replace the intake air control valve No.3.



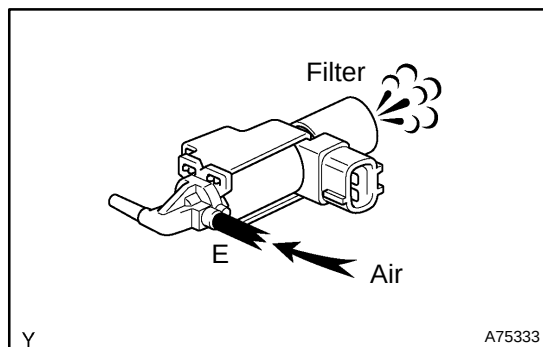
- (b) Inspect VSV operation
 - (1) Using an ohmmeter, check the resistance between the terminals.

Resistance: 37 to 44 Ω at 20°C (68°F)

If the resistance is not as specified, replace the VSV.

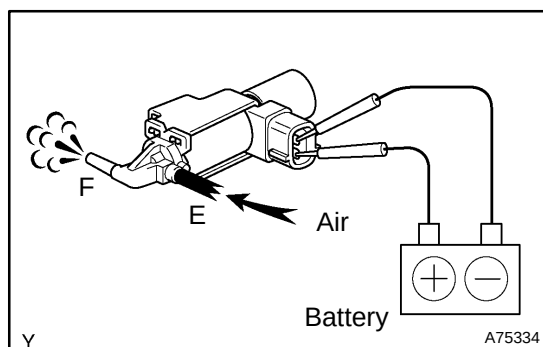


- (2) Inspect the VSV for ground.
 - Using an ohmmeter, check that there is no continuity between each terminal and the body.
- If there is continuity, replace the VSV.



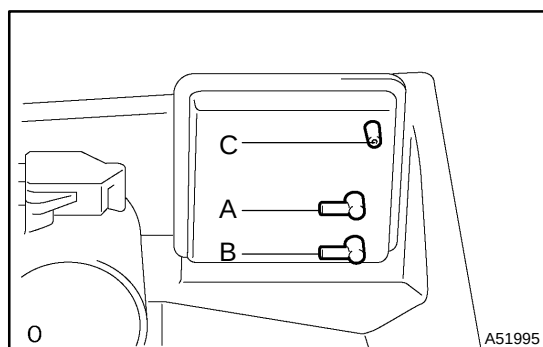
(3) Inspect the VSV operation.

- Check that air flows from port E to the filter.



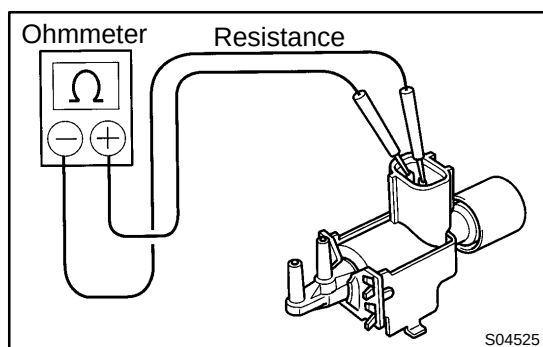
- Apply battery voltage across the terminals.
- Check that air flows from port E to port F.

If operation is not as specified, replace the VSV.



3. INSPECT AIR CLEANER CAP SUB-ASSY

- Cover port C with finger, and check that air flows from port B to port A.
- Cover port C with finger, and check that air does not flow from port A to port B.
- Cover port A and C with fingers, and apply 60 kPa (450 mm Hg, 18 in. Hg) of vacuum to port B, and check that there is no change of vacuum after one minute.

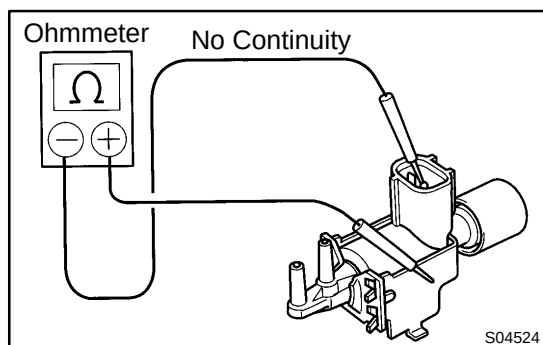


4. INSPECT VACUUM SWITCHING VALVE ASSY NO.1

- Inspect the VSV for open circuit.
 - Using an ohmmeter, check the resistance between the terminals.

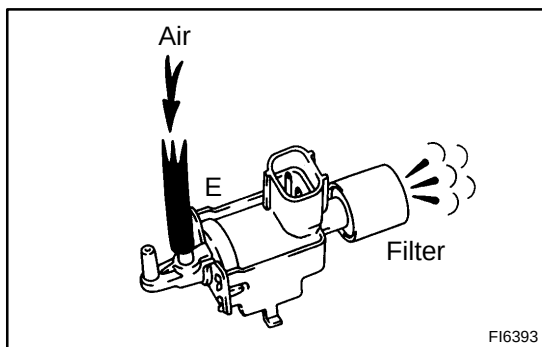
Resistance: 33 to 39 Ω at 20°C (68°F)

If the resistance is not as specified, replace the VSV.

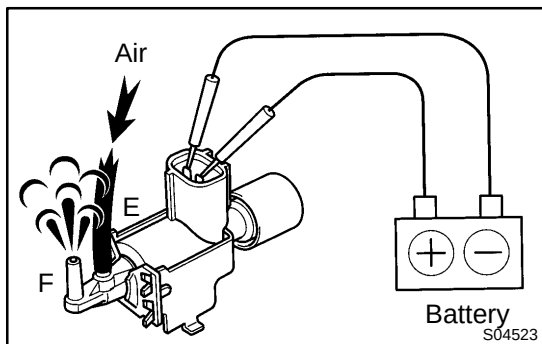


- Inspect the VSV for ground.
 - Using an ohmmeter, check that there is no continuity between each terminal and the body.

If there is continuity, replace the VSV.



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

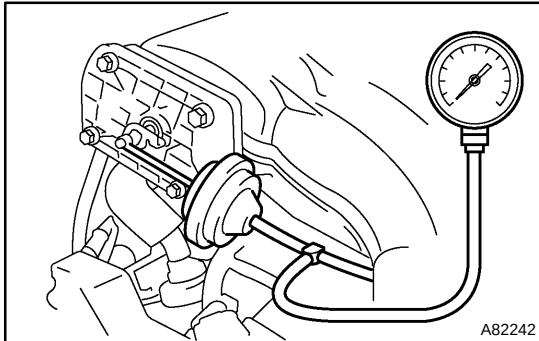


- (2) Apply battery voltage across the terminals.
- (3) Check that air flows from port E to port F.
- If operation is not as specified, replace the VSV.

INTAKE AIR CONTROL SYSTEM

ON-VEHICLE INSPECTION

1306T-01



1. INSPECT INTAKE AIR CONTROL SYSTEM

- (a) Using a three-way connector, connect vacuum gauge to the actuator hose.
- (b) Connect the hand-held tester to the DLC 3.
- (c) Start the engine.
- (d) Select the active test mode according to the message on the hand-held tester.

Vacuum:

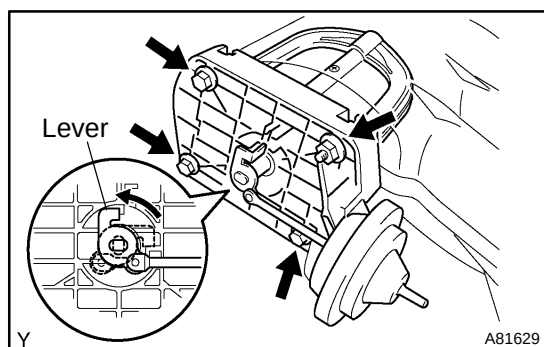
VSV ON	Approx. 27 kPa (200 mm Hg, 7.9 in. Hg)
VSV OFF	0 kPa (0 mm Hg, 0 in. Hg.)

INTAKE AIR CONTROL VALVE ASSY NO.2

1306Q-02

REPLACEMENT

1. DRAIN ENGINE COOLANT (See page 16-8)
2. REMOVE FRONT WIPER ARM HEAD CAP (See page 66-8)
3. REMOVE FR WIPER ARM LH (See page 66-8)
4. REMOVE FR WIPER ARM RH (See page 66-8)
5. REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSY (See page 66-8)
6. REMOVE WINDSHIELD WIPER MOTOR ASSY (See page 66-8)
7. REMOVE COWL TOP TO COWL BRACE INNER NO.1 (See page 10-13)
8. REMOVE COWL TOP PANEL SUB-ASSY OUTER FRONT (See page 10-13)
9. REMOVE V-BANK COVER SUB-ASSY (See page 10-7)
10. REMOVE AIR CLEANER CAP SUB-ASSY (See page 10-7)
11. REMOVE EMISSION CONTROL VALVE SET (See page 11-13)
12. REMOVE INTAKE AIR SURGE TANK (See page 11-13)



13. REMOVE INTAKE AIR CONTROL VALVE ASSY NO.2
 - (a) Remove the 3 bolts and the nut.
 - (b) Rotate the lever to the closed position as shown in the illustration and pull out the intake air control valve No. 2.
 - (c) Remove the gasket from the intake air surge tank.

14. INSTALL INTAKE AIR CONTROL VALVE ASSY NO.2
 - (a) Install a new gasket to the intake air surge tank.
 - (b) Install the intake air control valve No. 2 with the 3 bolts and the nut.
Torque: 10 N·m (102 kgf·cm, 7 ft·lbf)
15. INSTALL INTAKE AIR SURGE TANK (See page 11-13)
16. INSTALL EMISSION CONTROL VALVE SET (See page 11-13)
17. INSTALL AIR CLEANER CAP SUB-ASSY (See page 10-7)
18. ADD ENGINE COOLANT (See page 16-8)
19. CHECK FOR ENGINE COOLANT LEAKS (See page 16-1)
20. INSTALL V-BANK COVER SUB-ASSY (See page 10-7)
21. INSTALL COWL TOP PANEL SUB-ASSY OUTER FRONT (See page 10-13)
22. INSTALL COWL TOP TO COWL BRACE INNER NO.1 (See page 10-13)
23. INSTALL WINDSHIELD WIPER MOTOR ASSY (See page 66-8)
24. INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSY
25. INSTALL FR WIPER ARM RH (See page 66-8)
26. INSTALL FR WIPER ARM LH (See page 66-8)
27. INSTALL FRONT WIPER ARM HEAD CAP