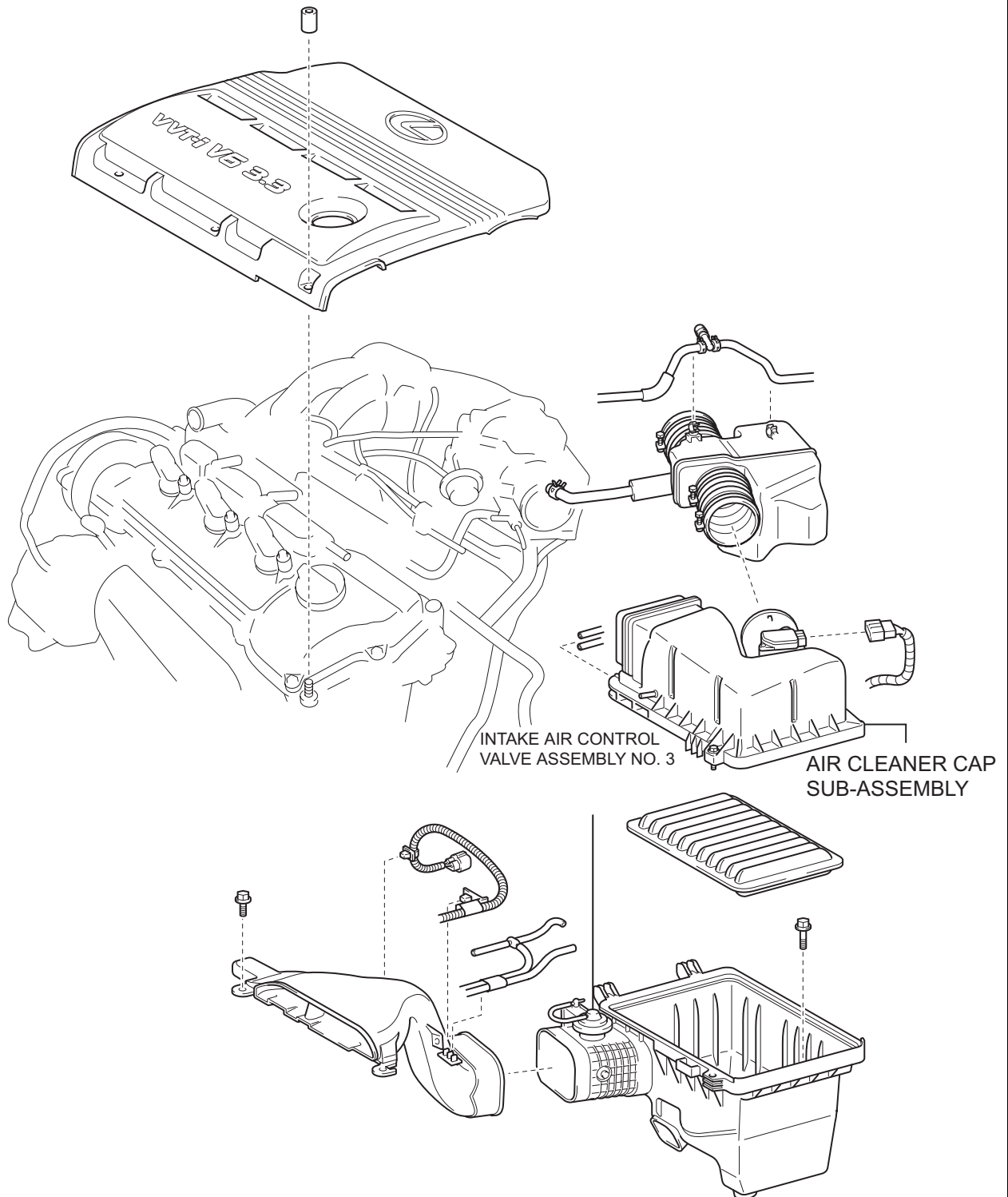
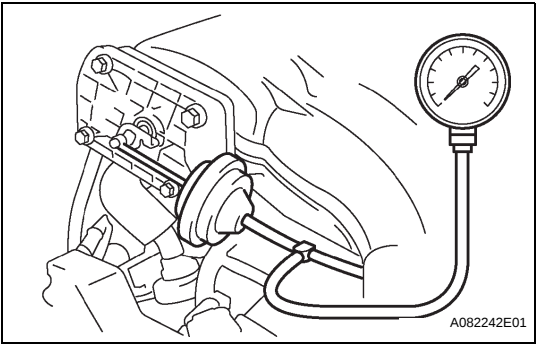


INTAKE AIR CONTROL SYSTEM

PARTS LOCATION



IT



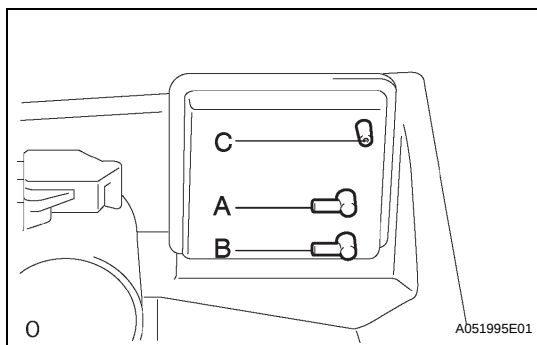
ON-VEHICLE INSPECTION

1. INSPECT INTAKE AIR CONTROL SYSTEM

- (a) Using a 3-way connector, connect vacuum gauge to the actuator hose.
- (b) Connect the intelligent tester to the DLC3.
- (c) Start the engine.
- (d) Select the active test mode according to the message on the intelligent tester.

Vacuum

Switch Condition	Vacuum
VSV ON	Approx. 27.6 kPa (200 mmHg, 7.9 in.Hg)
VSV OFF	0 kPa (0 mmHg, 0 in.Hg)



AIR CLEANER

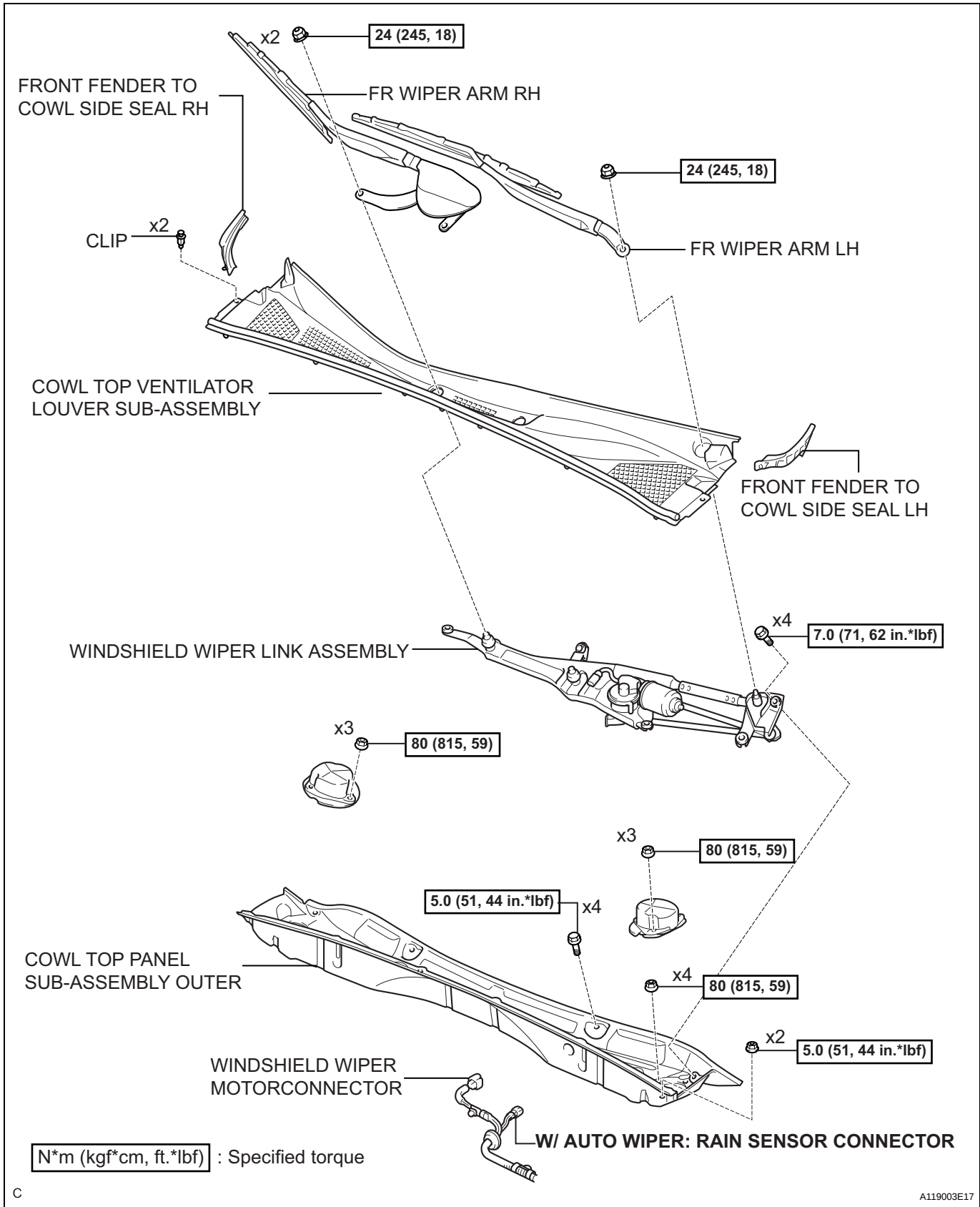
INSPECTION

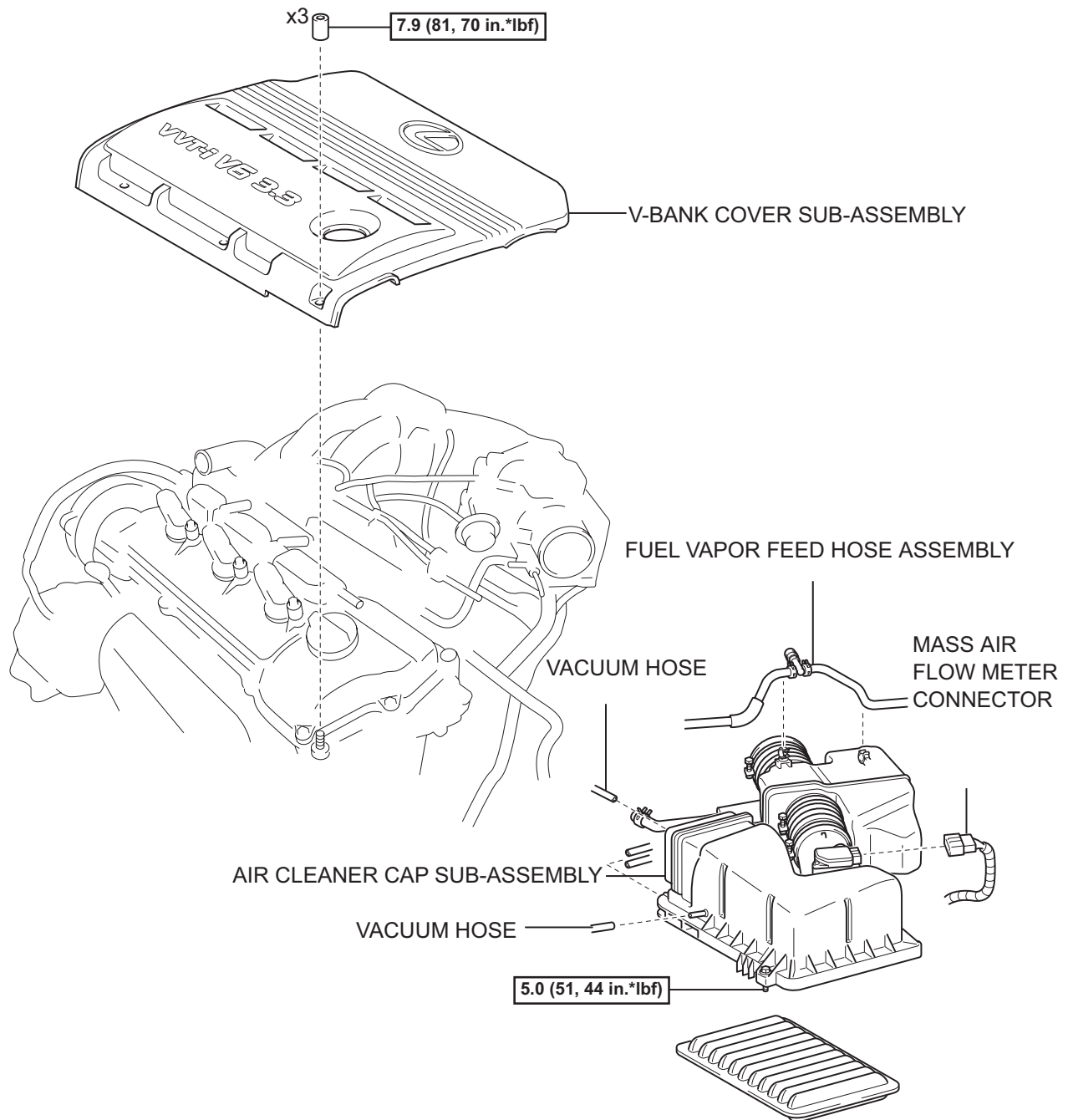
1. INSPECT AIR CLEANER CAP SUB-ASSEMBLY

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

INTAKE AIR CONTROL VALVE

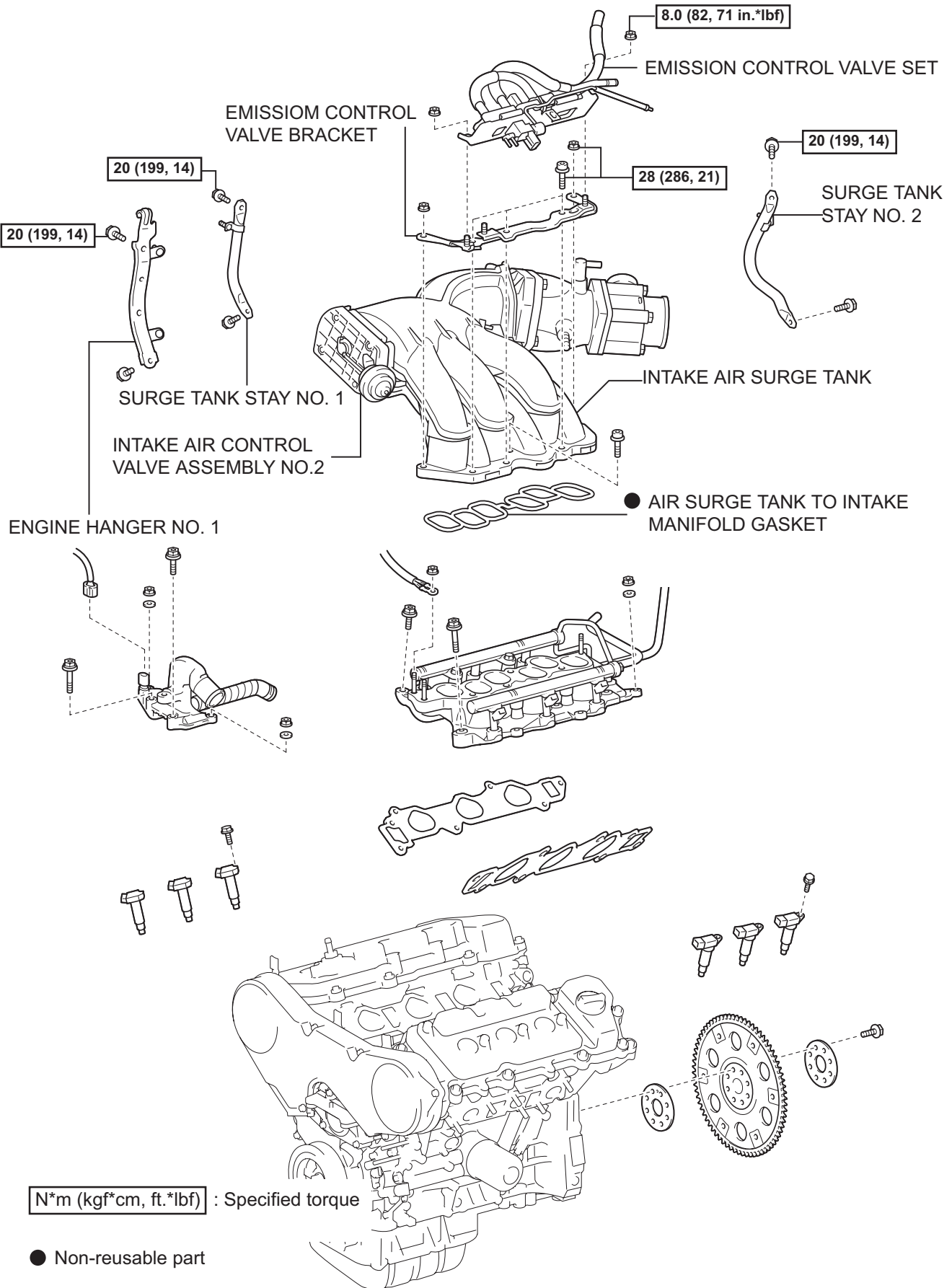
COMPONENTS





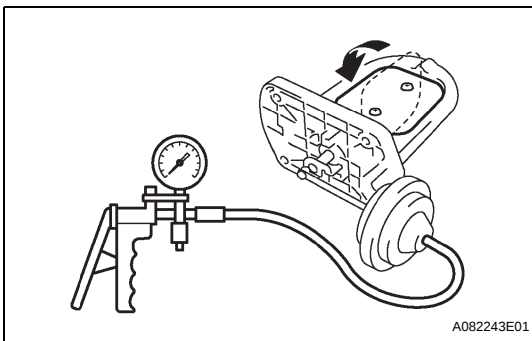
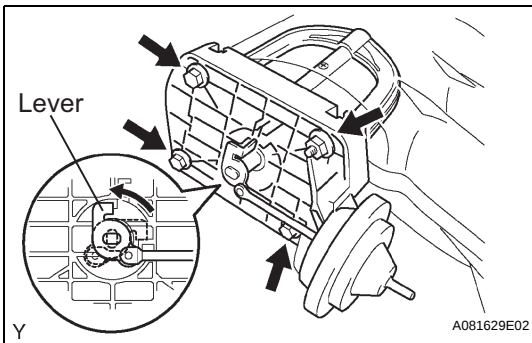
N*m (kgf*cm, ft.*lbf) : Specified torque

IT



REMOVAL

1. DRAIN ENGINE COOLANT (See page [CO-7](#))
2. REMOVE FR WIPER ARM LH (See page [WW-37](#))
3. REMOVE FR WIPER ARM RH (See page [WW-37](#))
4. REMOVE FRONT FENDER TO COWL SIDE SEAL LH
5. REMOVE FRONT FENDER TO COWL SIDE SEAL RH
6. REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY (See page [WW-37](#))
7. REMOVE WINDSHIELD WIPER LINK ASSEMBLY (See page [WW-37](#))
8. REMOVE COWL TOP PANEL SUB-ASSEMBLY OUTER (See page [FU-10](#))
9. REMOVE V-BANK COVER SUB-ASSEMBLY (See page [ES-372](#))
10. REMOVE AIR CLEANER CAP SUB-ASSEMBLY (See page [FU-10](#))
11. REMOVE EMISSION CONTROL VALVE SET (See page [FU-11](#))
12. REMOVE INTAKE AIR SURGE TANK (See page [FU-11](#))
13. REMOVE INTAKE AIR CONTROL VALVE ASSEMBLY NO.2
 - (a) Remove the 3 bolts and 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.

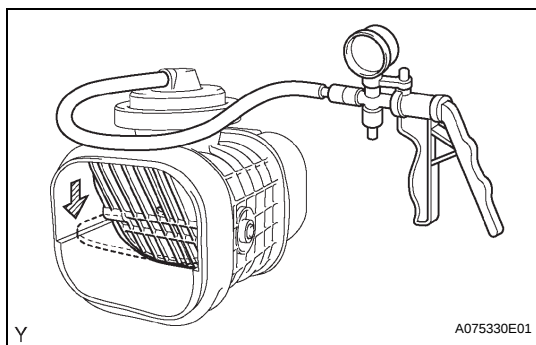


INSPECTION

1. INSPECT INTAKE AIR CONTROL VALVE ASSEMBLY NO.2
 - (a) With 26.7 kPa (200 mmHg, 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.

NOTICE:

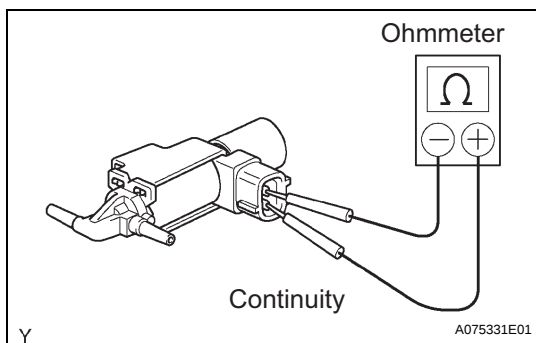
Do not adjust the adjust screw.



2. INSPECT INTAKE AIR CONTROL VALVE ASSEMBLY NO.3

(a) Inspect actuator operation

- (1) With 26.7 kPa (200 mmHg, 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.



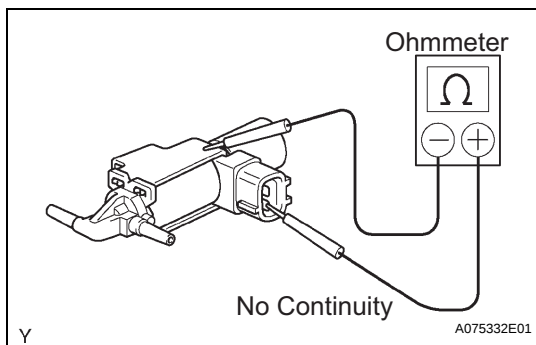
(b) Inspect VSV for continuity

- (1) Using an ohmmeter, check for continuity between the terminals.

Resistance:

37 to 44 Ω at 20°C (68°F)

If there is no continuity, replace the VSV.



(2) Inspect the VSV for ground.

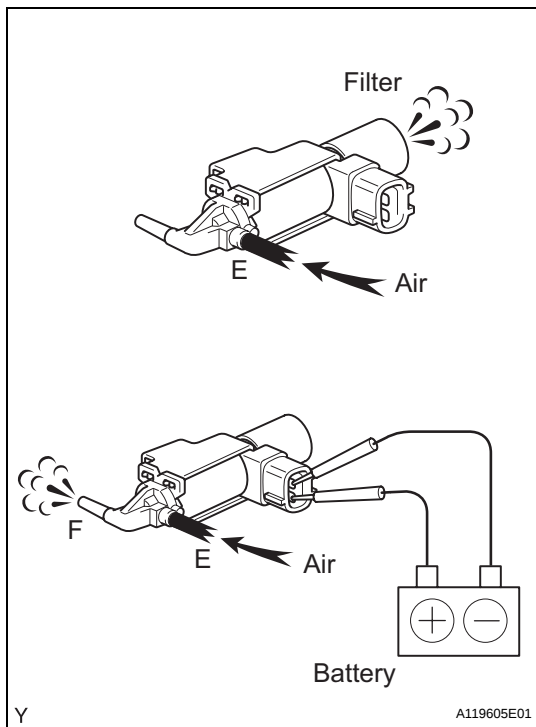
- Using an ohmmeter, check that there is no continuity between each terminal and the body.

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 F.

If operation is not as specified, replace the VSV.



VACUUM SWITCHING VALVE

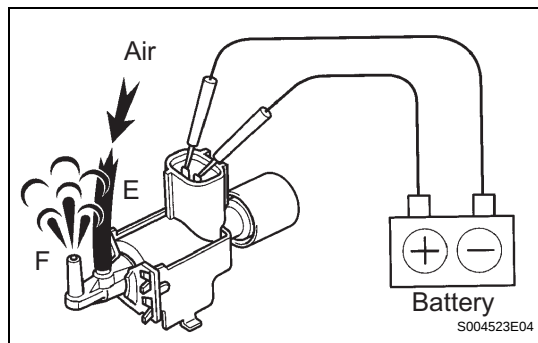
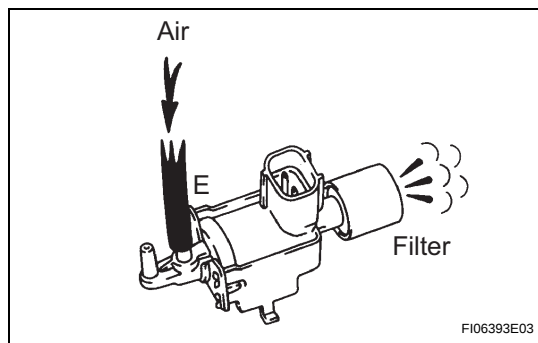
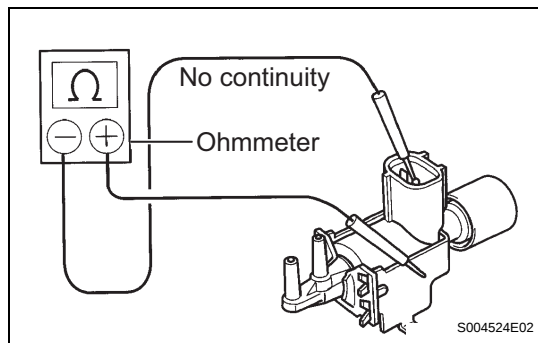
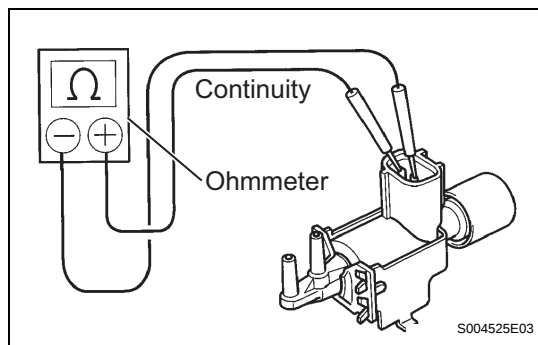
INSPECTION

1. INSPECT VACUUM SWITCHING VALVE ASSEMBLY NO.1

- (a) Inspect the VSV for open circuit.
 - (1) using an ohmmeter, check that there is continuity between the terminals.

Resistance:
33 to 39 Ω at 20°C (68°F)
 If there is no continuity, replace the VSV.
- (b) Inspect the VSV for ground.
 - (1) 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.