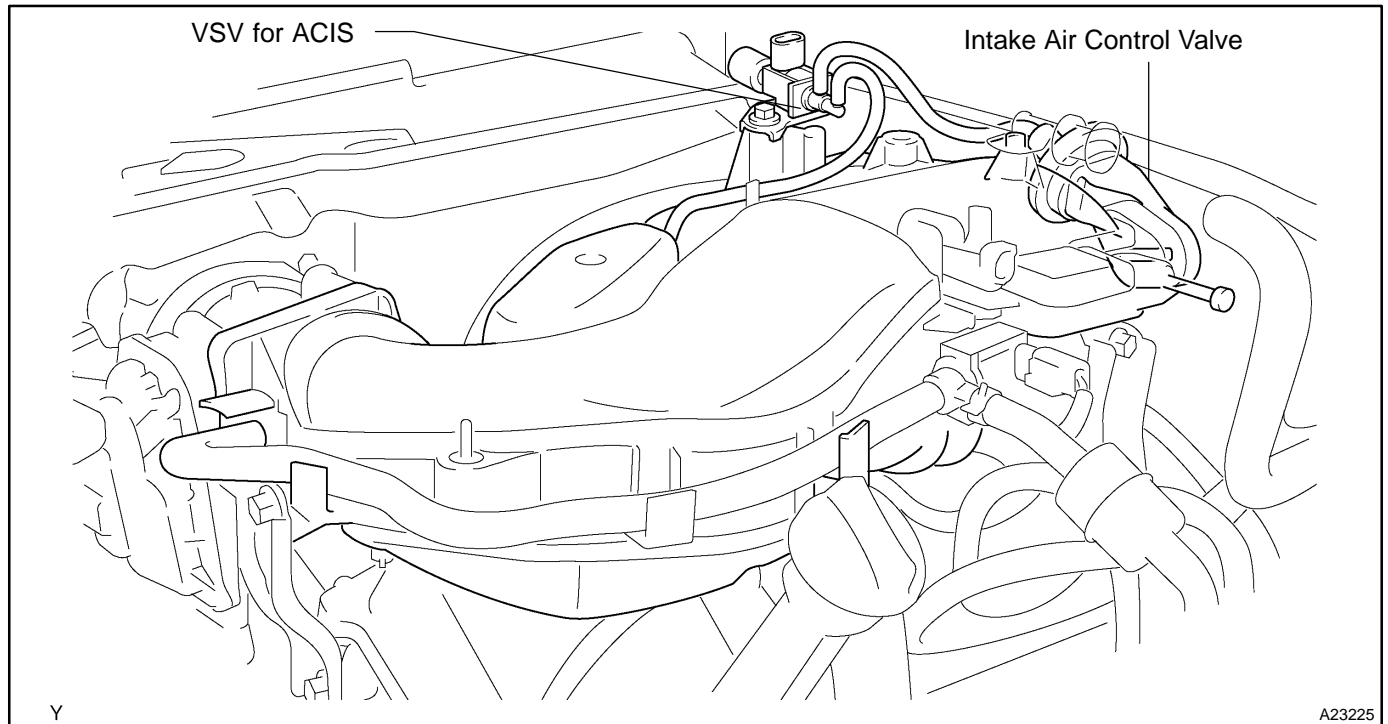


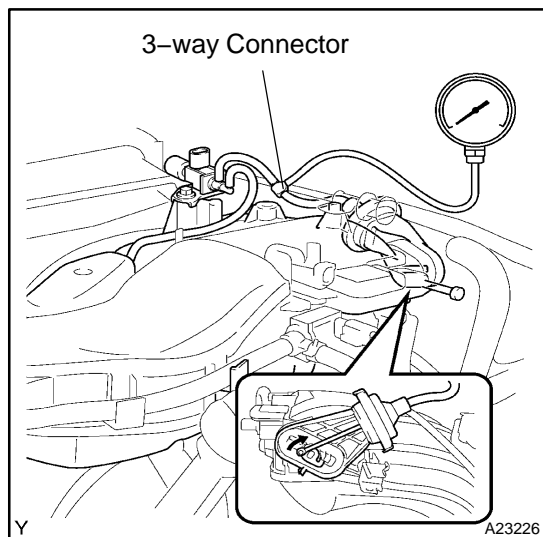
ACOUSTIC CONTROL INDUCTION SYSTEM (ACIS) ON-VEHICLE INSPECTION

SF120-01

1. INSPECT INTAKE AIR CONTROL FUNCTION

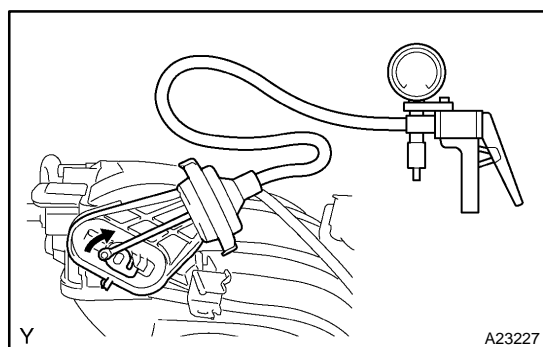


- (a) Remove the V-bank cover.
- (b) Connect the hand-held tester to the DLC3.
- (c) Perform the ACTIVE TEST, then check that the actuator rod operates.
- (d) Start the engine.
- (e) Check that the VSV for ACIS is ON under the following conditions:
 - Depressing the accelerator pedal to 60% accelerator opening angle.
 - Racing the engine above 4,700 rpm.
- (f) Check that the VSV for ACIS is OFF under the following conditions:
 - The engine idling.
 - Release the accelerator pedal from the condition of step (e).



2. INSPECT INTAKE AIR CONTROL VALVE

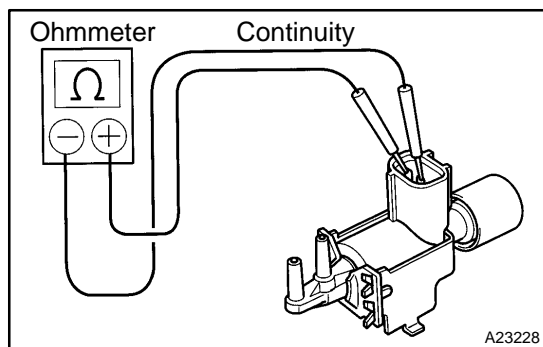
- Remove the V-bank cover.
- Using a 3-way connector, connect the vacuum gauge to the actuator hose.
- Start the engine.
- While the engine is idling, check that the vacuum gauge needle momentarily fluctuates up to approx. 39.9 kPa (300 mmHg, 11.8 in.Hg). (The actuator rod is pulled out.)
- Rapidly and fully depress the accelerator pedal and check that the vacuum gauge needle points to 0 kPa (0 mmHg, 0 in.Hg). (The actuator rod is returned.)
- Remove the vacuum gauge, and connect the vacuum hose to the actuator.
- Reinstall the V-bank cover.



3. INSPECT INTAKE AIR SURGE TANK

Inspect the diaphragm.

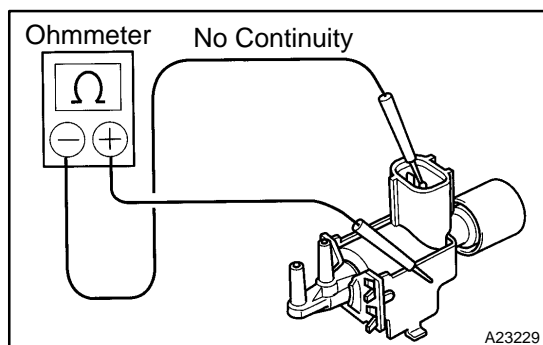
- Check that the lever moves when a vacuum of 26.6 kPa (200 mmHg, 7.9 in.Hg) is applied with the MI-TYVAC (hand-held vacuum pump) on.
- Check that the vacuum of 26.6 kPa (200 mmHg, 7.9 in.Hg) is sustained for 1 minute in the above state.



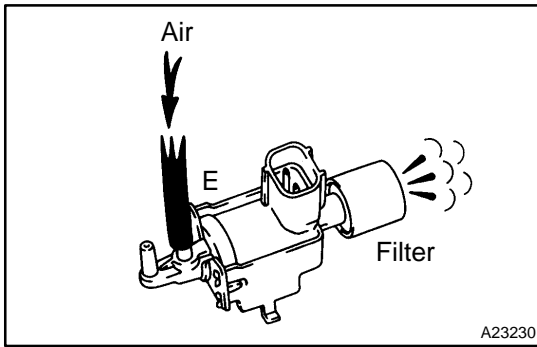
4. INSPECT VSV FOR ACIS

- Inspect the VSV for an open circuit. Using an ohmmeter, check that there is continuity between each terminal.

Resistance: 33 to 39 Ω at 20°C (68°F)

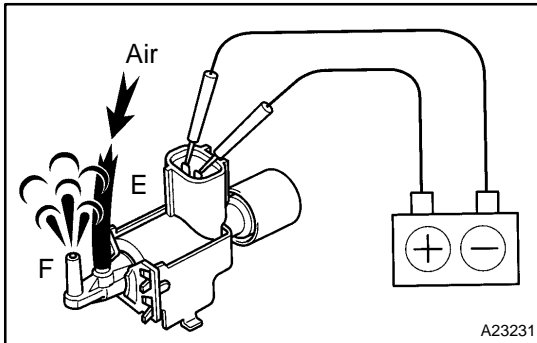


- Inspect the VSV for ground. Using an ohmmeter, check that there is no continuity between each terminal and the body.



(c) Inspect 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.