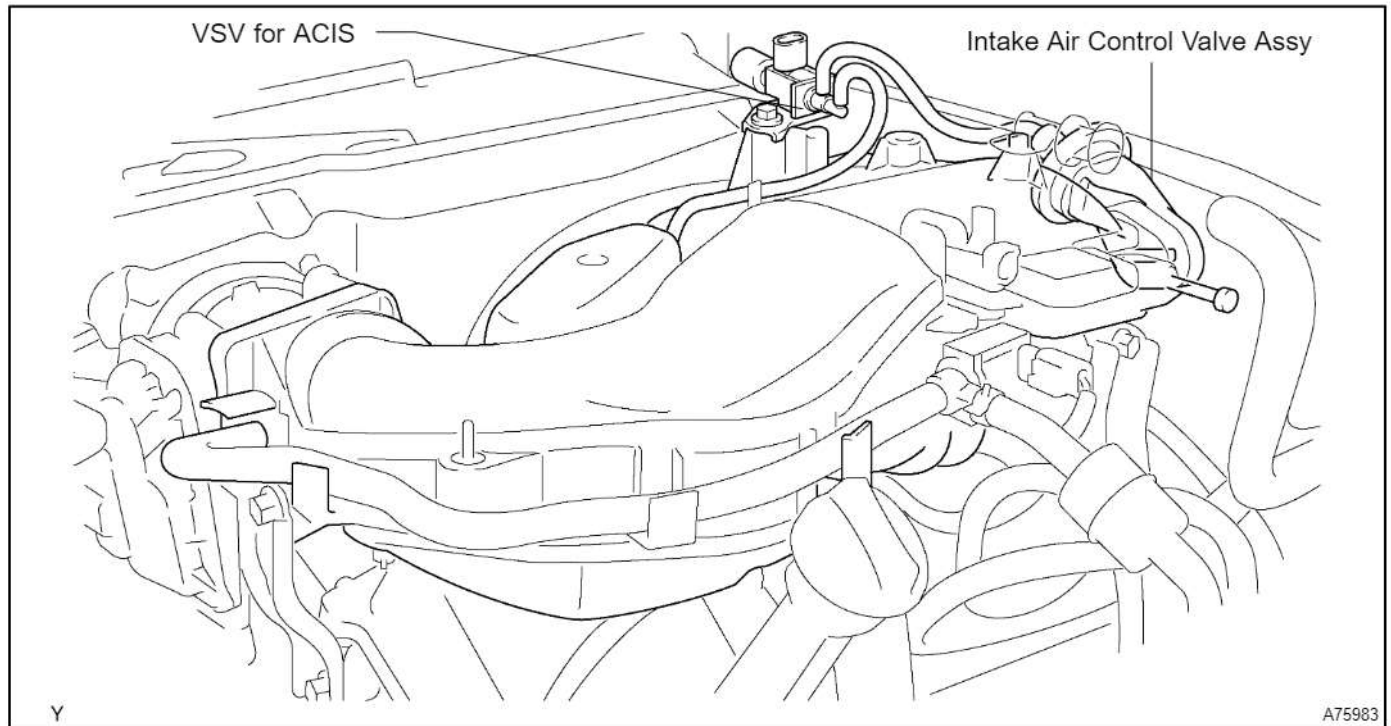


INTAKE AIR CONTROL SYSTEM (1GR-FE)

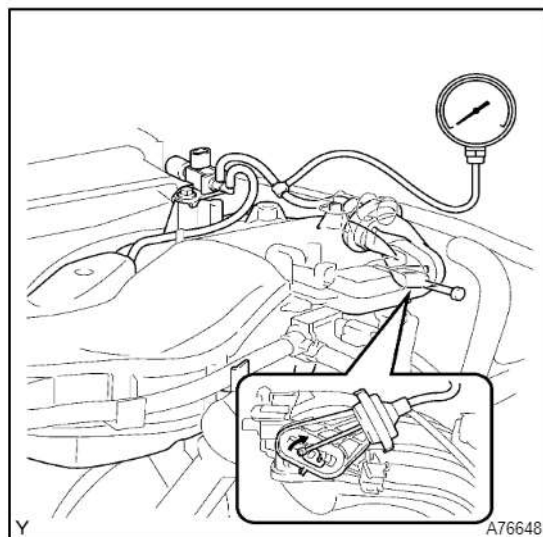
ON-VEHICLE INSPECTION

1305L-02

1. INSPECT INTAKE AIR CONTROL FUNCTION



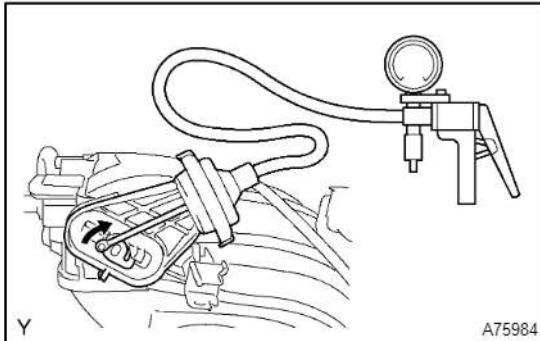
- (a) Remove the V-bank cover.
- (b) Set hand-held tester to the DLC3.
- (c) Perform the ACTIVE TEST, then check that the actuator rod operates.
- (d) Start the engine.
- (e) Check that the VSV for ACIS is ON under the condition.
 - Depressing the accelerator pedal to 60 % accelerator opening angle.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



2. INSPECT INTAKE AIR CONTROL VALVE

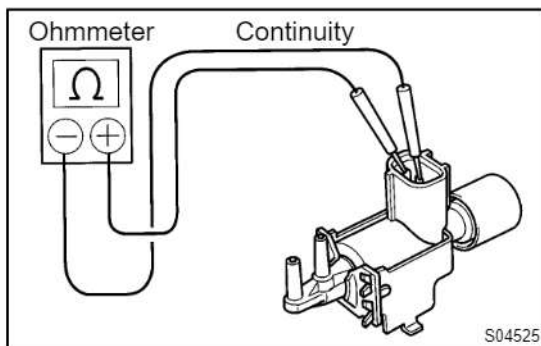
- (a) Remove V-bank cover.
- (b) Using a 3-way connector, connect vacuum gauge to the actuator hose.
- (c) Start the engine.
- (d) While the engine is idling, check that the vacuum gauge needle momentarily fluctuates up to approx. 39.9 kPa (300 mmHg, 11.8 in.Hg). (The actuator rod is pulled out.)
- (e)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

INSPECTION



1. INSPECT INTAKE AIR SURGE TANK

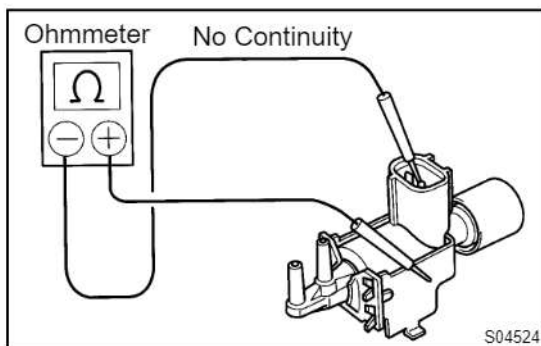
- (a) Inspect the diaphragm.
 - (1) Check that the lever moves when vacuum of 26.6 kPa (200 mmHg) is applied with the mighty bag on.
 - (2) Check that the vacuum of 26.6 kPa (200 mmHg) is sustained for 1 minute in the above state.



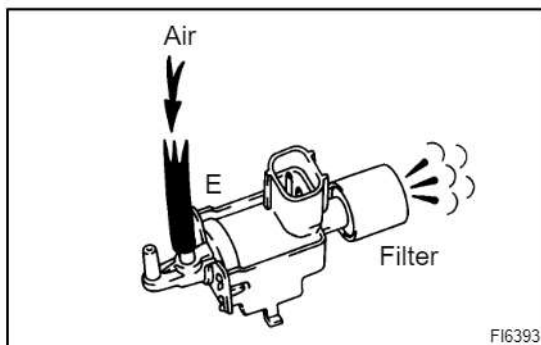
2. INSPECT VACUUM SWITCHING VALVE ASSY NO.1

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

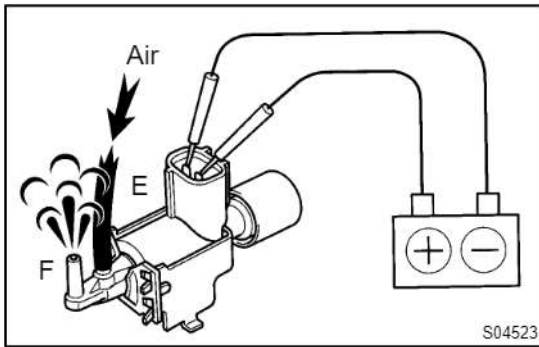
Resistance: 33 – 39 Ω at 20°C (68°F)



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



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



- (2) Apply battery positive voltage across the terminals.
- (3) Check that air flows from port E to port F.