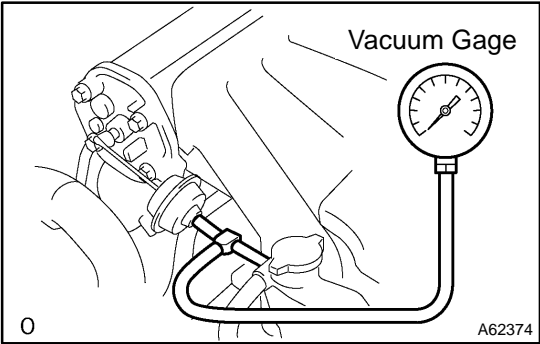


INTAKE AIR CONTROL SYSTEM (1MZ-FE)

ON-VEHICLE INSPECTION

1300P-02

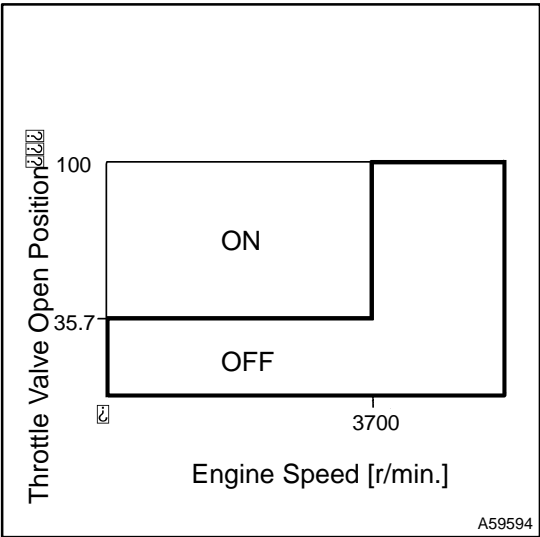


1. INSPECT INTAKE AIR CONTROL SYSTEM

- (a) Using a 3-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.)

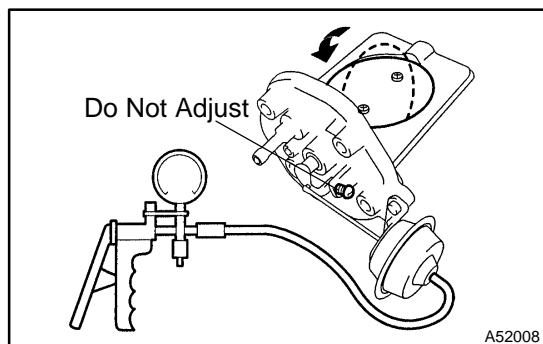


- (e) Shift transmission into P range and control the accelerator pedal.
- (f) Check the data monitor operation according to the illustration.

HINT:

The value in the illustration is only for reference; the throttle valve may operate diversely depend on the running condition.

INSPECTION



1. INTAKE AIR CONTROL VALVE ASSY

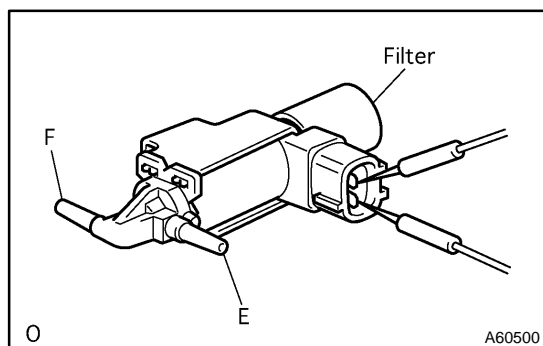
- (a) With 26.7 kPa (200 mm Hg, 7.9 in. Hg) of vacuum applied to the actuator, check that the actuator rod moves.
- (b) One minute after applying the vacuum, check that the actuator rod does not return.
- (c) If the operation is not as specified, replace the intake air control valve assembly.

NOTICE:

Do not adjust the adjust screw.

2. INTAKE AIR CONTROL VALVE ASSY NO.3

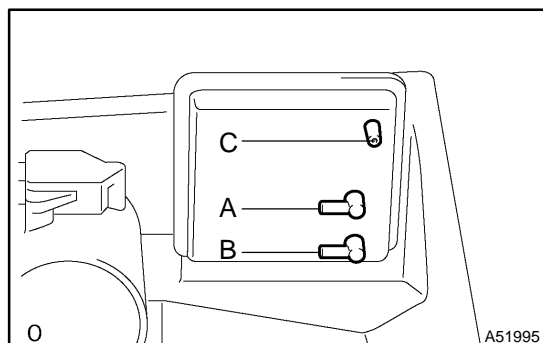
- (a) Inspect actuator operation
 - (1) With 26.7 kPa (200 mm Hg, 7.9 in. Hg) of vacuum applied to the actuator, check that the actuator rod moves.
 - (2) One minute after applying the vacuum, check that the actuator rod does not return.
 - (3) If the operation is not as specified, replace the intake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



- (b) Inspect VSV operation
 - (1) Using an ohmmeter, check that there is continuity between each terminals.

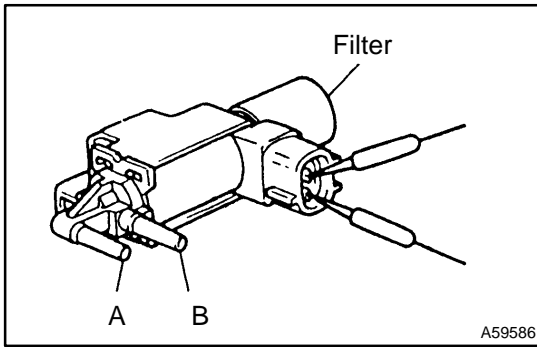
Resistance: 37 – 44 Ω at 20°C (68°F)

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



3. AIR CLEANER CAP SUB-ASSY

- (a) Cover port C with finger, and check that air flows from port B to port A.
- (b) Cover port C with finger, and check that air does not flow from port A to port B.
- (c) 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. VACUUM SWITCHING VALVE ASSY NO.1

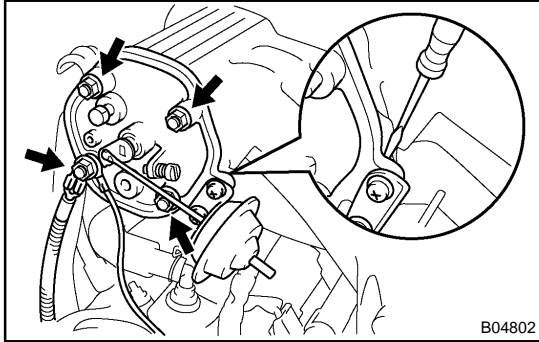
- (a) Using an ohmmeter, check that there is continuity between each terminals.

Resistance: 33 – 39 Ω at 20°C (68°F)

- (b) Check that air flows from port B to the filter.
(c) Apply battery voltage across the terminals.
(d) Check that air flows from port B to port A.

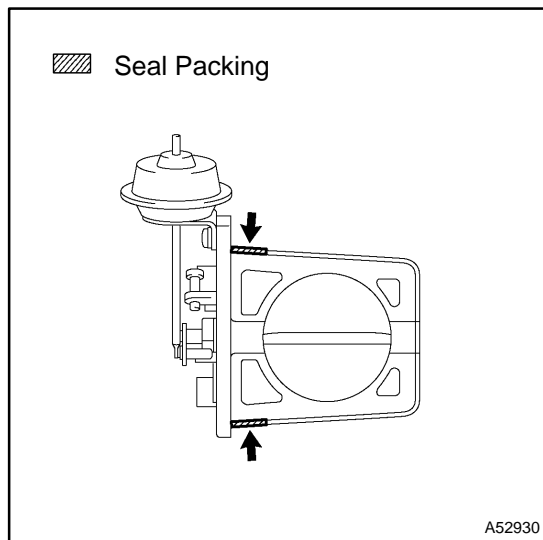
INTAKE AIR CONTROL VALVE ASSY (1MZ-FE) REPLACEMENT

1300R-02



1. REMOVE INTAKE AIR CONTROL VALVE ASSY

- (a) Disconnect the vacuum hose.
- (b) Remove the 4 nuts and the intake air control valve assembly by prying a screwdriver between intake air control valve and intake air surge tank.



2. INSTALL INTAKE AIR CONTROL VALVE ASSY

- (a) Apply seal packing to the intake air control valve assembly as shown in the illustration.
Seal packing: Part No. 08226-00080 or equivalent.
- (b) Install a new gasket and intake air control valve assembly.
Torque: 15 N·m (153 kgf·cm, 11 ft·lbf)