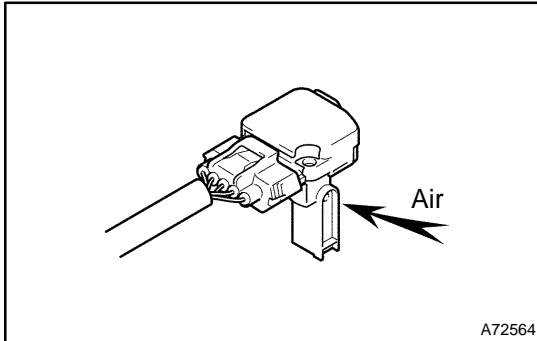


SFI SYSTEM (2UZ-FE)

ON-VEHICLE INSPECTION

100AF-01



1. INSPECTION MASS AIR FLOW METER

(a) If you have hand-held tester:

Inspect for operation

- (1) Connect the hand-held tester to the DLC3.
- (2) Turn the ignition switch ON.
- (3) Blow air into the MAF meter, and check that the air flow fluctuates (MAF) of the CURRENT DATA shown the standard value.

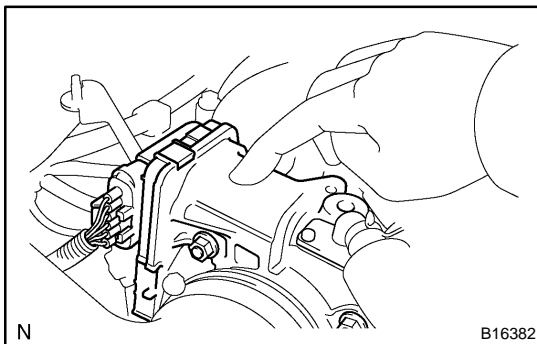
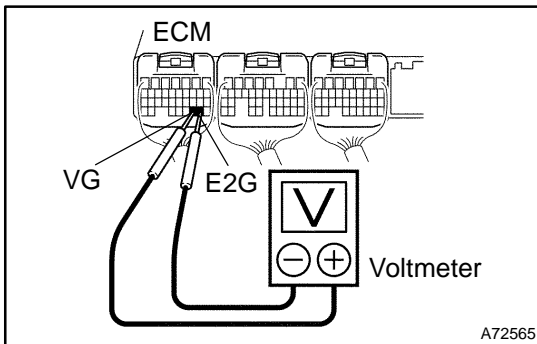
If operation is not as specified, check the MAF meter (See page 10-3), wiring and ECM.

(b) If you have no hand-held tester:

Inspect for operation

- (1) Turn the ignition switch ON.
- (2) Using a voltmeter, connect the positive (+) tester probe to terminal VG, and negative (-) tester probe to terminal E2G.
- (3) Blow air into the air flow meter, and check that the voltage fluctuates.

If operation is not as specified, check the MAF meter (See page 10-3), wiring and ECM.



2. INSPECTION THROTTLE BODY

(a) Inspect the throttle control motor for operating sound.

- (1) Turn the ignition switch ON.
- (2) When turning the accelerator pedal position sensor lever, check the running sound of the motor. Also, check that there is no friction sound.

If operation is not as specified, check the throttle control motor (See page 10-3), wiring and ECM.

(b) Inspect the throttle position sensor.

- (1) Connect the hand-held tester to the DLC3.
- (2) Turn the ignition switch ON.
- (3) When turning the accelerator pedal position sensor lever to the full-open position, check that the throttle valve opening percentage (THROTTLE POS) of the CURRENT DATA shown the standard value.

**Standard throttle valve opening percentage:
60 % or more**

If operation is not as specified, check that the accelerator pedal position sensor (See page 05-191), wiring and ECM.

If you have no hand-held tester, measure voltage between terminals (VTA1 - E2, VTA2 - E2) of the ECM connector (See page 05-27).

- (c) Inspect the air assist system.
 - (1) Start the engine and check that the MIL does not light up.
 - (2) Allow the engine to warm up to normal operating temperature.
 - (3) Turn the A/C compressor ON to OFF, and check the idle speed.

Idle speed (Transmission in neutral): 700 ± 50 rpm

NOTICE:

Perform inspection under condition without electrical load.

- (d) After checking the above (b) to (d), perform the driving test and check that there is no sense of incongruity.

3. INSPECT ACCELERATOR PEDAL POSITION SENSOR

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON.
- (c) Check that the voltage (ACCEL POS) of the CURRENT DATA shown the standard value.

Accelerator pedal released: 0.3 - 0.9 V

Accelerator pedal depress: 3.2 - 4.8 V

- (d) Check that the voltage (ACCEL POS #2) of the CURRENT DATA shown the standard value.

Accelerator pedal released: 1.8 - 2.7 V

Accelerator pedal depress: 4.5 - 5.5 V

If you have no hand-held tester, measure voltage between terminals (VPA - EPA, VPA2 - EPA2) of the ECM connector (See page [05-27](#)).