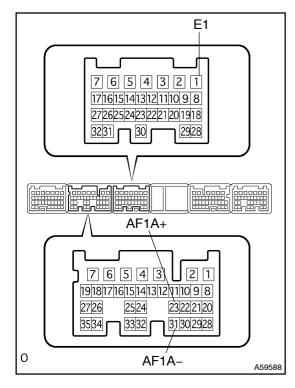
# EMISSION CONTROL SYSTEM (1AZ-FE) ON-VEHICLE INSPECTION

1203C-0



### 1. INSPECT AIR-FUEL RATIO COMPENSATION SYSTEM

(a) Measure voltage between terminals of the engine ECM.Standard voltage:

| Terminal   | Condition    | Voltage |
|------------|--------------|---------|
| AF1A+ ⇔ E1 | IG switch ON | 3.3 V   |
| AF1A- ⇔ E1 | IG switch ON | 3.0 V   |

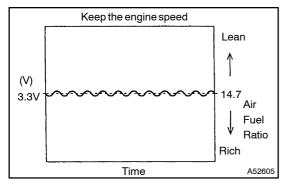
#### **CAUTION:**

### Connect test leads from the back side of the connector with the ECM connected.

#### HINT:

Voltage between terminals of the engine ECM is kept constant regardless of the voltage of A/F sensor.

- (b) Connect the hand-held tester to the DLC3.
- (c) Select "DATA MONITOR" "A/FS B1 S1", "A/FS B2 S1" and "O2S B1 S2" to display the monitor.
- (d) Warm up the A/F sensor with the engine speed at 2,500 r.p.m for approx. 2 minutes.



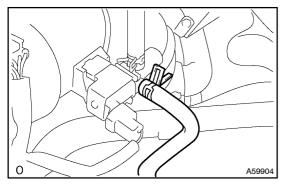
(e) Keep the engine speed at 2,500 r.p.m and confirm that the displays of "A/FS B1 S1" and "A/FS B2 S1" are as shown in the illustration.

#### **CAUTION:**

- The illustration differs from the real display.
- Only hand-held tester displays the waveform of A/F sensor.
- (f) Confirm that the display of "O2S B1 S2" changes between 0V to 1V with the engine speed at 2,500 r.p.m.

### 2. INSPECT FUEL CUT OFF RPM

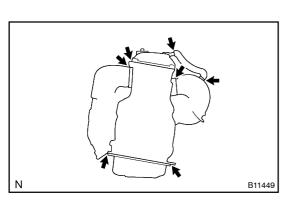
- (a) Increase the engine speed to at least 3,500 r.p.m.
- (b) Use a sound scope to check for injector operating noise.
- (c) Check that when the throttle lever is released, injector operation noise stops momentarily and then resumes.



## 3. INSPECT EVAPORATIVE EMISSION CONTROL SYSTEM

- (a) After starting the engine, disconnect the vacuum hose shown in the illustration.
- (b) Confirm vacuum occurs at the vsv port, when choosing "ACTIVE TEST" and "PURGE VSV" according to the display on hand-held tester.
- (c) Finish "ACTIVE TEST", then connect the vacuum hose again.

CAMRY REPAIR MANUAL (RM915E)



- (d) After going to "ECM DATA MONITOR" on the hand-held tester, choose "PURGE VSV" to check the operation of the purge VSV.
- (e) After warm up the engine and drive the vehicle, confirm the VSV turns on from off.
- 4. VISUALLY INSPECT HOSES, CONNECTIONS AND GASKETS
- (a) Check for cracks, leaks or damage.