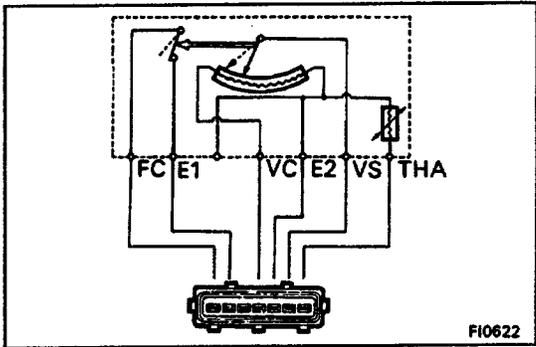


## VOLUME AIR FLOW (VAF) METER ON-VEHICLE INSPECTION

EG1TV-02

### MEASURE RESISTANCE OF VOLUME AIR FLOW METER

- (a) Disconnect the connector from the volume air flow meter.
- (b) Using an ohmmeter, measure the resistance between each terminal.



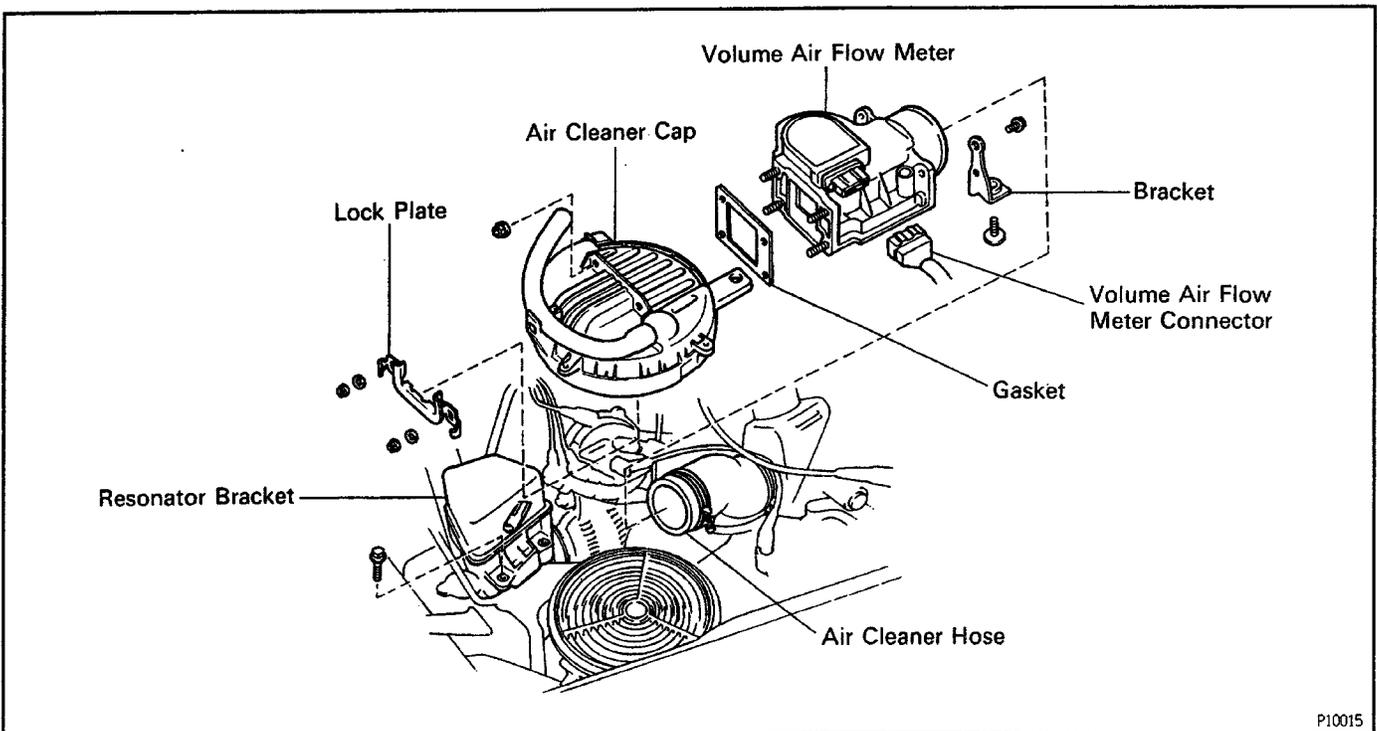
Between terminals	Resistance	Temperature
VS - e2	200-600Ω	-
VC - e2	200-400Ω	-
THA - E2	10-20kΩ	-20°C (4°F)
THA - E2	4 -7kΩ	0° C (32°F)
THA - E2	2 -3kΩ	20°C (68°F)
THA - E2	0.9 - 1.3 kΩ	46°C (104° F)
THA - E2	0.4-0.7kΩ	60°C (140°F)
FC-E1	Infinity	-

If not within specification, replace the volume air flow meter.

- (c) Reconnect the volume air flow meter connector.

## COMPONENTS FOR REMOVAL AND INSTALLATION

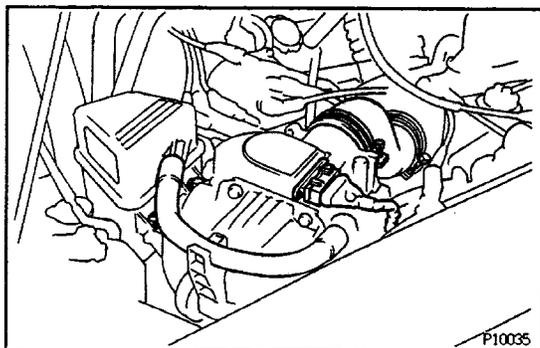
EG1TV-01



## VOLUME AIR FLOW METER REMOVAL <sup>EG1MS-02</sup>

(See Components for Removal Installation)

### 1. DISCONNECT CABLE FROM NEGATIVE TERMINAL OF BATTERY

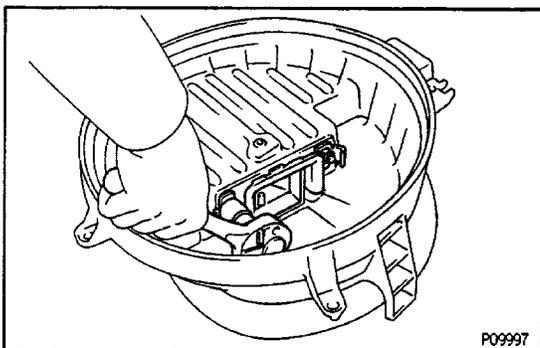


### 2. DISCONNECT RESONATOR BRACKET

- (a) Disconnect the air hose.
- (b) Remove the two bolts and resonator bracket.

### 3. DISCONNECT VOLUME AIR FLOW METER CONNECTOR

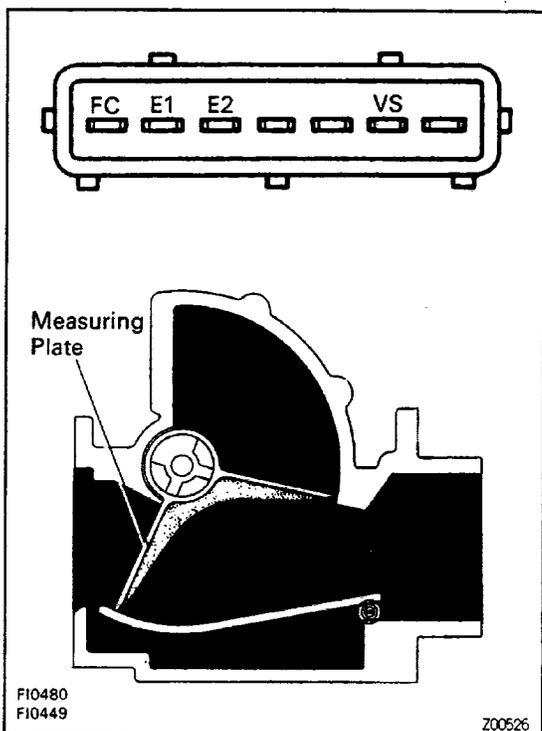
### 4. DISCONNECT AIR CLEANER HOSE



### 5. REMOVE AIR CLEANER CAP WITH VOLUME AIR FLOW METER ASSEMBLY

### 6. REMOVE VOLUME AIR FLOW METER FROM AIR CLEANER CAP

- (a) Remove the bolt, two screws and bracket.
- (b) Pry off the lock plate, and remove the four nuts and washers, lock plate, volume air flow meter and gasket.



## VOLUME AIR FLOW METER INSPECTION

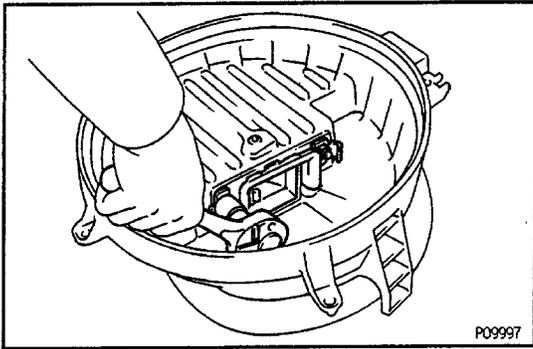
### MEASURE RESISTANCE OF VOLUME AIR FLOW METER

Using an ohmmeter, measure the resistance between each terminal by moving the measuring plate.

Between terminals	Resistance ( $\Omega$ )	Measuring plate opening
E1 - FC	Infinity	Fully closed
E1 - FC	Zero	Other than closed position
E2 - VS	200-600	Fully closed
E2 - VS	20-1,200	Fully open

HINT: Resistance between terminals E2 and VS will change in a wave pattern as the measuring plate slowly opens.

If not within specification, replace the volume air flow meter.



## VOLUME AIR FLOW METER INSTALLATION

(See Components for Removal and Installation)

### 1. INSTALL VOLUME AIR FLOW METER TO AIR CLEANER CAP

- (a) Install the volume air flow meter with the gasket, lock plate, washers and four nuts. Pry the lock plate on the nut.
- (b) Install the bracket with the bolt and two screws.

### 2. INSTALL AIR CLEANER CAP AND VOLUME AIR FLOW METER ASSEMBLY

### 3. INSTALL AIR CLEANER HOSE

### 4. CONNECT VOLUME AIR FLOW METER CONNECTOR

### 5. INSTALL RESONATOR BRACKET

- (a) Install the resonator bracket with the two bolts.
- (b) Connect the air hose.

### 6. CONNECT CABLE TO NEGATIVE TERMINAL OF BATTERY

