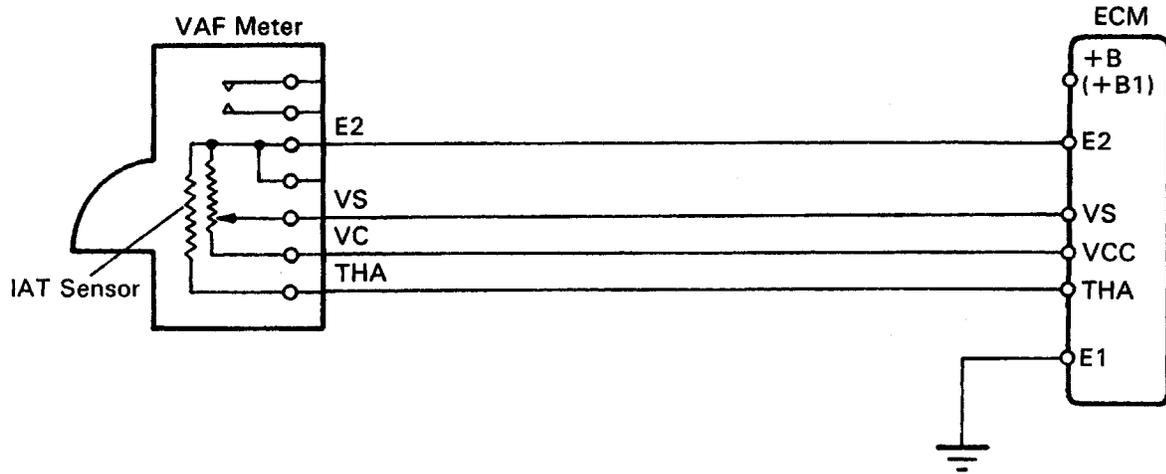
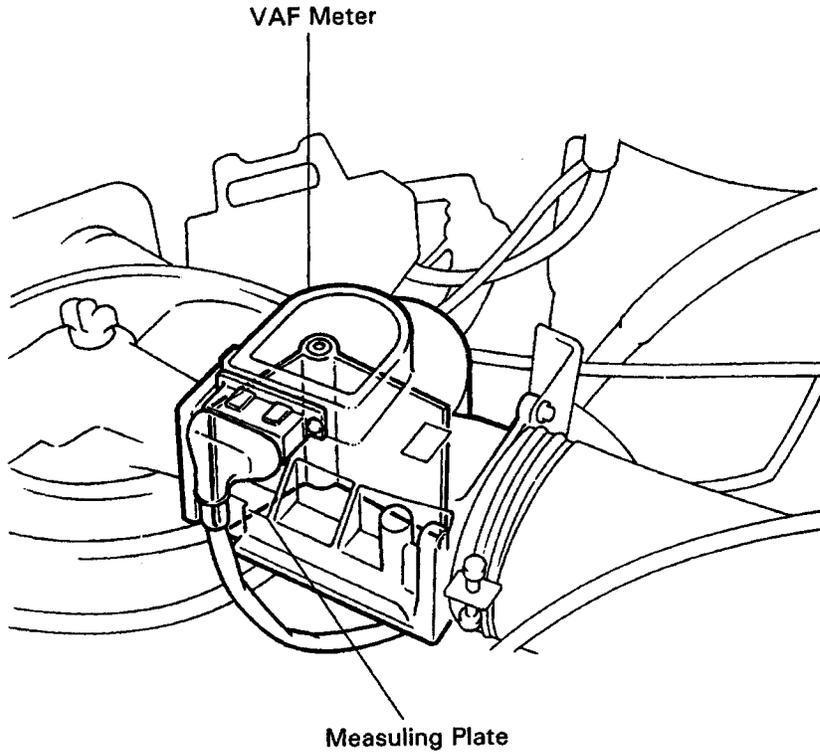
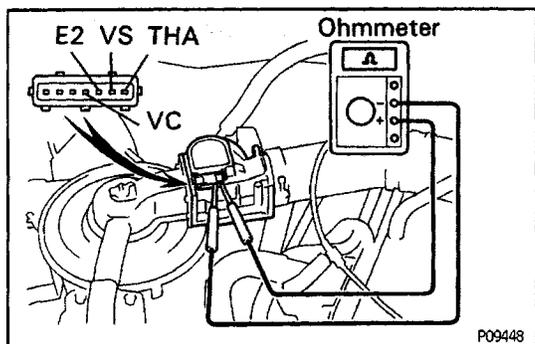


# VOLUME AIR FLOW (VAF) METER





## ON-VEHICLE INSPECTION

EG0YH-07

### INSPECT RESISTANCE OF VOLUME AIR FLOW METER

- (a) Disconnect the VAF meter connector.
- (b) Using an ohmmeter, measure the resistance between each terminal.

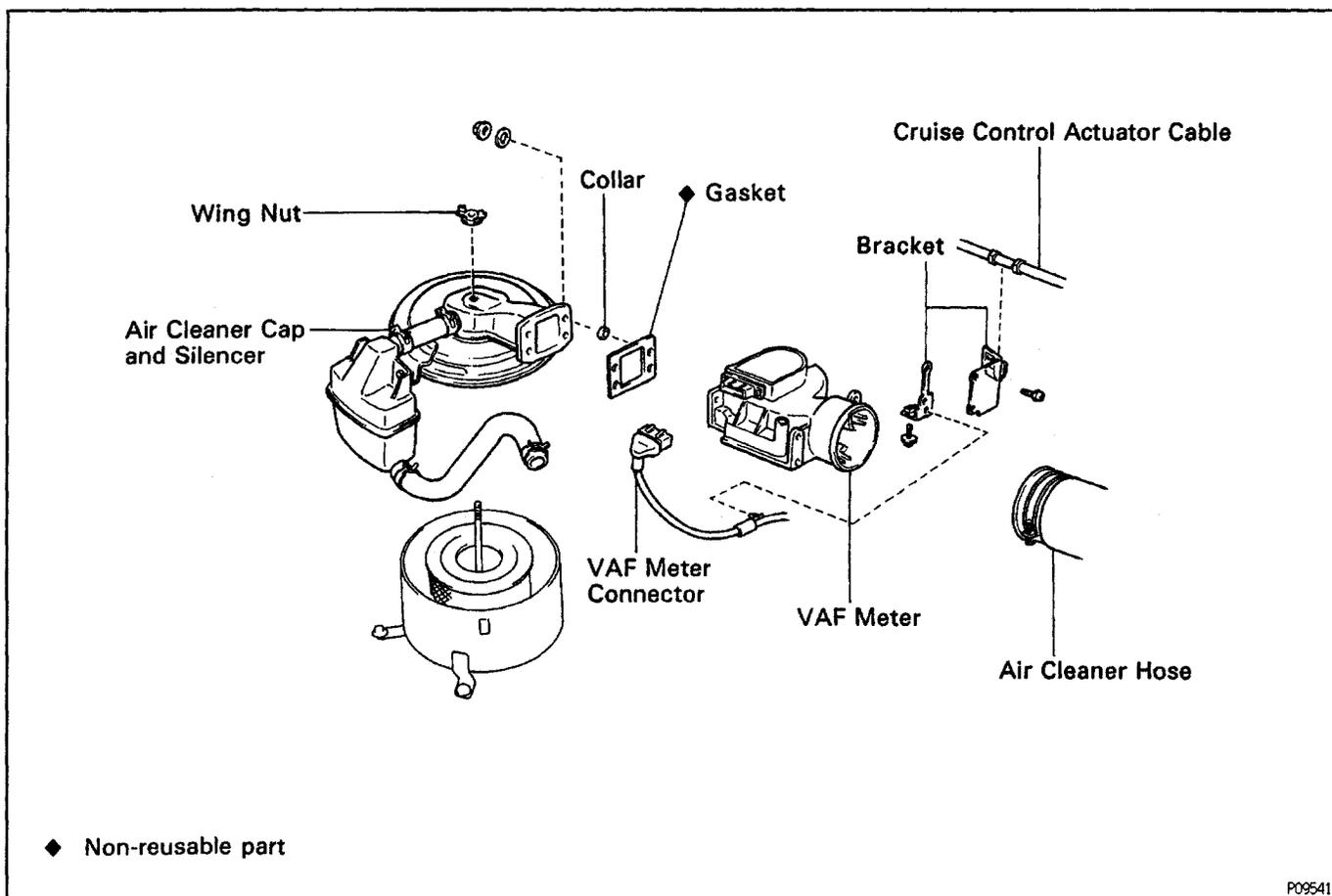
Between terminals	Resistance	Temperature
VS - E2	200-600 Ω	-
VS - E2	200 - 400Ω	-
THA - E2	10-20k Ω	-20° C (-4° F)
THA - EZ	4 -7kΩ	0° C (32° F)
THA - E2	2 -3kΩ	20 °C (68 F)
THA - E2	0.9 - 1.3 kΩ	40° C (104° F)
THA - E2	0.4-0.7k Ω	60° C (140° F)

If the resistance is not as specified, replace the VAF meter.

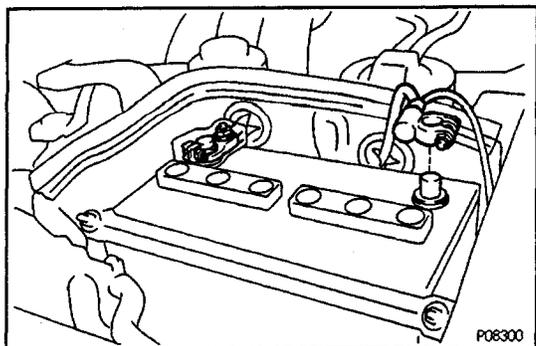
- (c) Reconnect the VAF meter connector.

EG0YJ-02

## COMPONENTS FOR REMOVAL AND INSTALLATION



P09541



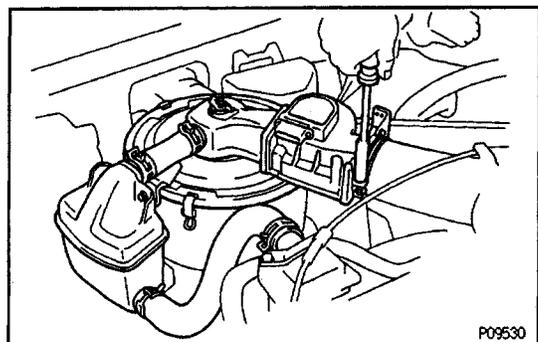
## VOLUME AIR FLOW METER REMOVAL <sup>EG18J-02</sup>

(See Components for Removal and Installation)

1. DISCONNECT NEGATIVE TERMINAL CABLE FROM BATTERY

2. DISCONNECT VOLUME AIR FLOW METER CONNECTOR AND WIRE CLAMP

3. DISCONNECT CRUISE CONTROL ACTUATOR CABLE

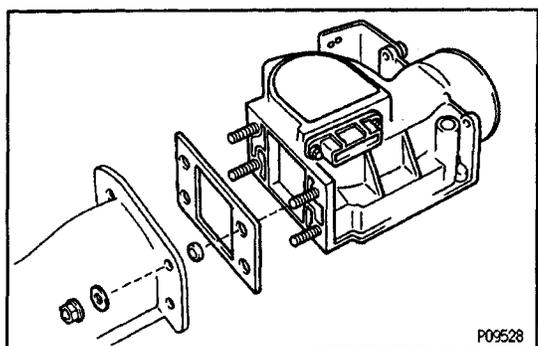


4. REMOVE AIR CLEANER CAP, VOLUME AIR FLOW METER AND SILENCER

(a) Disconnect the air cleaner hose from the VAF meter.

(b) Disconnect the No.2 air hose from the PAIR reed valve.

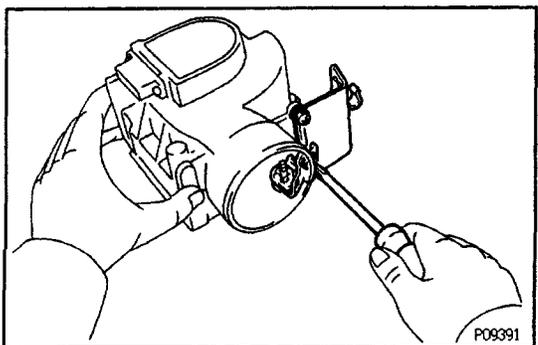
(c) Disconnect the three clamps, and remove the wing nut, air cleaner cap, VAF meter and silencer.

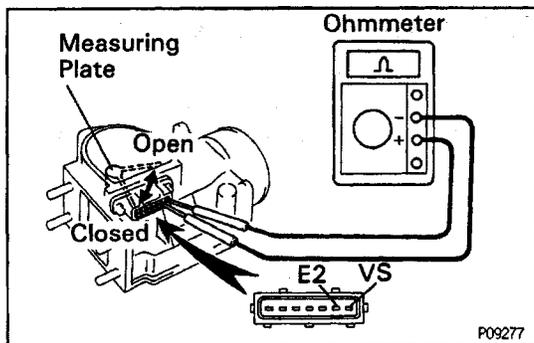


5. REMOVE VOLUME AIR FLOW METER FROM AIR CLEANER CAP

(a) Remove the 4 nuts, plate washers, VAF meter, gasket and 4 collars.

(b) Remove the 2 screws, bolt and 2 brackets.





## AIR FLOW METER INSPECTION

E20H2-06

### INSPECT AIR FLOW METER

Using an ohmmeter, measure the resistance between terminals VS and E2 by moving the measuring plate.

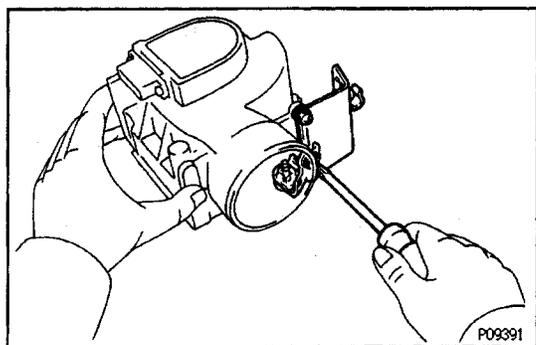
#### Resistance:

**200 - 600Ω at fully closed**

**20 - 1,200Ω at fully open**

HINT: Resistance will change in a wave pattern as the measuring plate slowly opens.

If the resistance is not as specified, replace the air flow meter.



## VOLUME AIR FLOW METER INSTALLATION

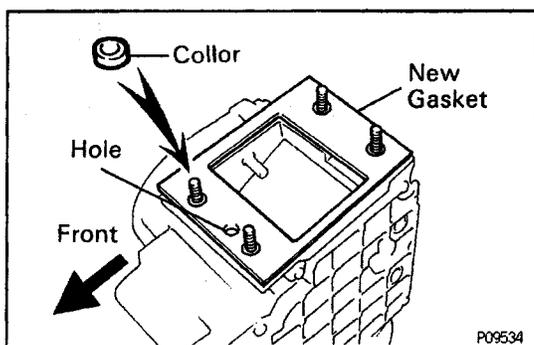
E018K-02

(See Components for Removal and Installation)

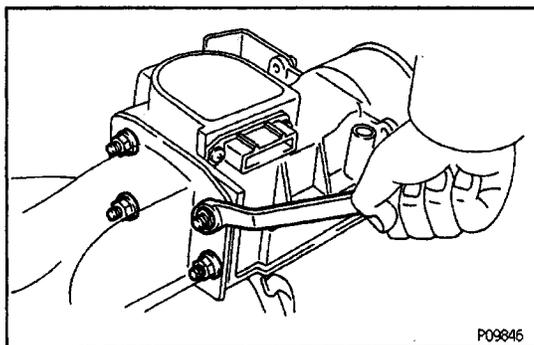
### 1. INSTALL VOLUME AIR FLOW METER TO AIR CLEANER CAP

(a) Install the 2 bracket with the 2 screws and bolt.

**Torque: 4.9 N-m (50 kgf-cm, 43 in-lbf)**

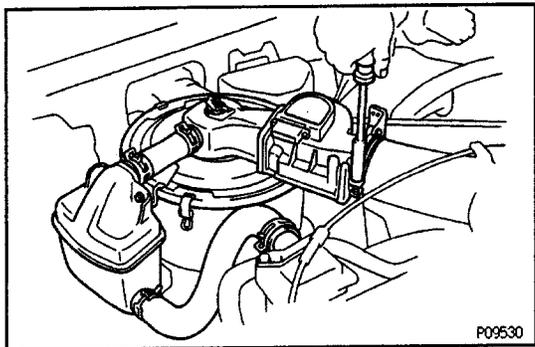


(b) Place a new gasket and the 4 collars on the VAF meter.



(c) Install the VAF meter with the 4 plate washers and nuts.

**Torque: 10 N-m (100 kgf-cm, 7 ft-lbf)**



## **2. INSTALL AIR CLEANER CAP, VOLUME AIR FLOW METER AND SILENSOR**

- (a) Install the air cleaner cap to the air cleaner case with the 3 clips and wing nut.
- (b) Connect the No.2 air hose to the PAIR reed valve.
- (c) Connect the air cleaner hose to the VAF meter.

## **3. CONNECT CRUISE CONTROL ACTUATOR CABLE**

## **4. CONNECT VOLUME AIR FLOW METER CONNECTOR AND WIRE CLAMP**

## **5. CONNECT NEGATIVE TERMINAL CABLE TO BATTERY**