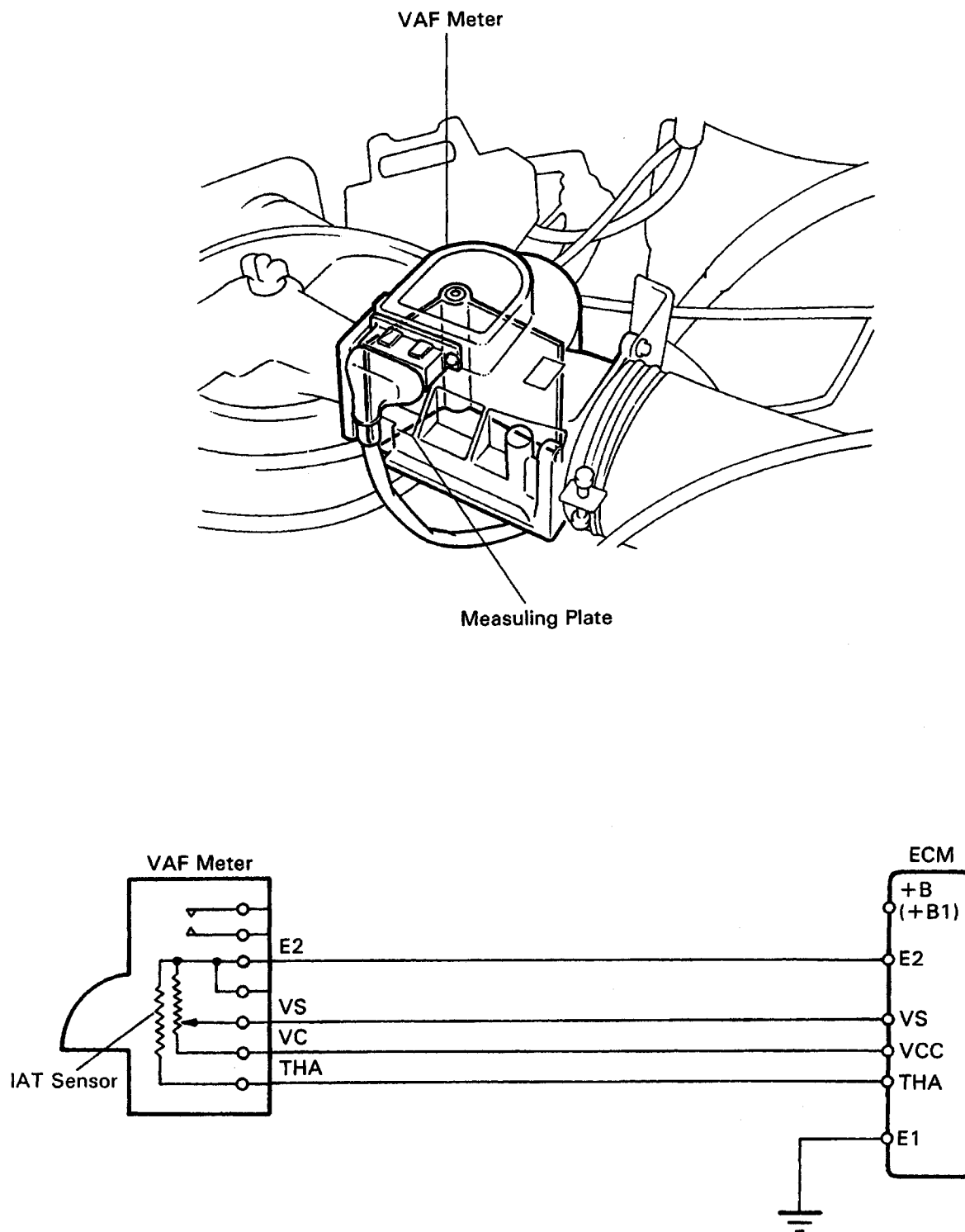
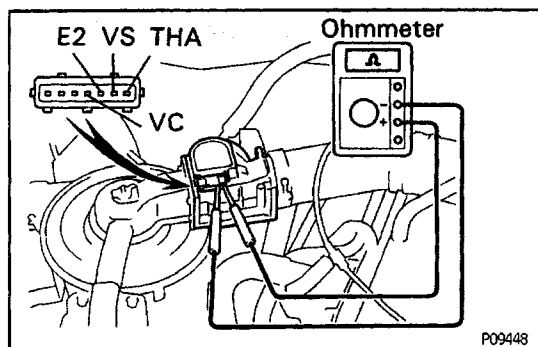


# VOLUME AIR FLOW (VAF) METER





## ON-VEHICLE INSPECTION

E60YH-07

### INSPECT RESISTANCE OF VOLUME AIR FLOW METER

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

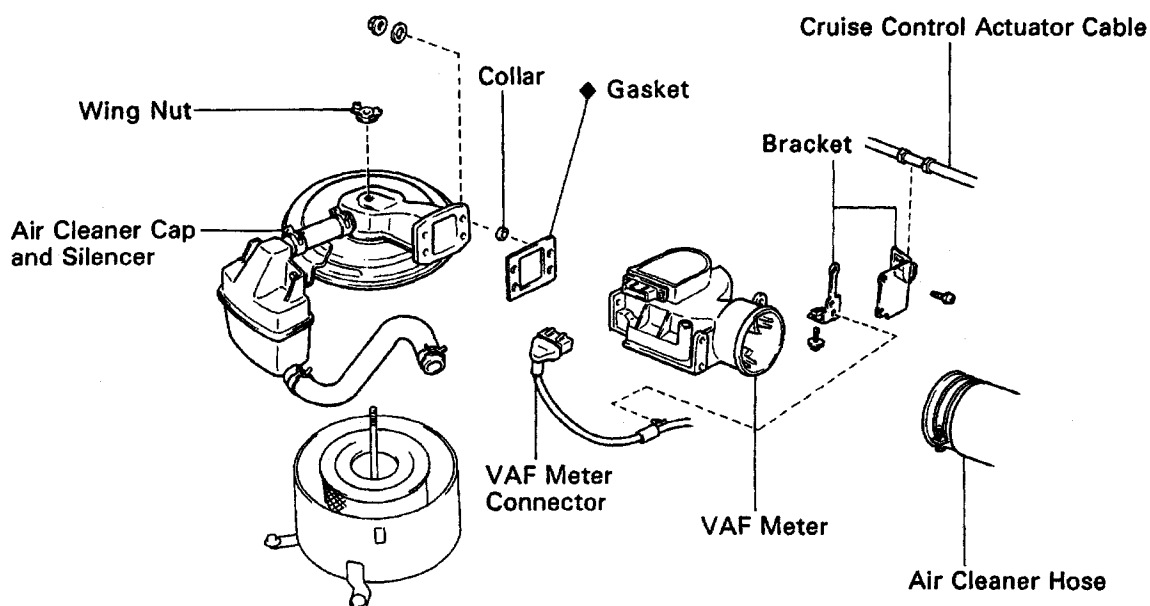
Between terminals	Resistance	Temperature
VS - E2	200-600 $\Omega$	—
VS - E2	200 - 400 $\Omega$	—
THA - E2	10-20k $\Omega$	-20°C (-4°F)
THA - EZ	4 -7k $\Omega$	0° C (32° F)
THA - E2	2 -3k $\Omega$	20 °C (68 F)
THA - E2	0.9 - 1.3 k $\Omega$	40° C (104° F)
THA - E2	0.4-0.7k $\Omega$	60° C (140° F)

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

- Reconnect the VAF meter connector.

E60YJ-02

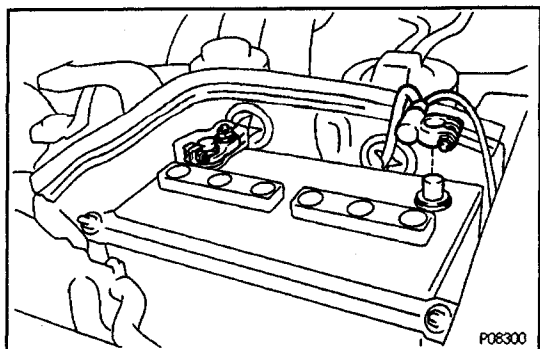
## COMPONENTS FOR REMOVAL AND INSTALLATION



◆ Non-reusable part

P09541

E018J-02



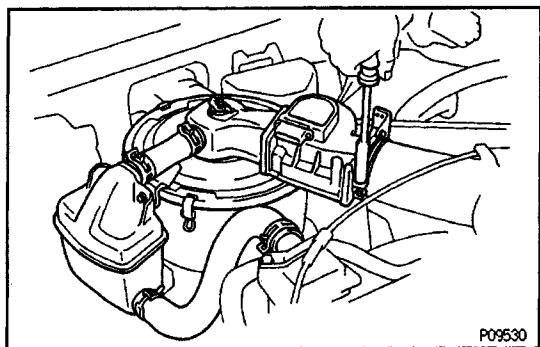
## VOLUME AIR FLOW METER REMOVAL

(See Components for Removal and Installation)

**1. DISCONNECT NEGATIVE TERMINAL CABLE FROM BATTERY**

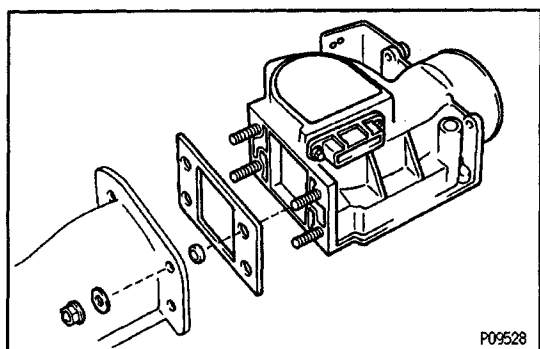
**2. DISCONNECT VOLUME AIR FLOW METER CONNECTOR AND WIRE CLAMP**

**3. DISCONNECT CRUISE CONTROL ACTUATOR CABLE**



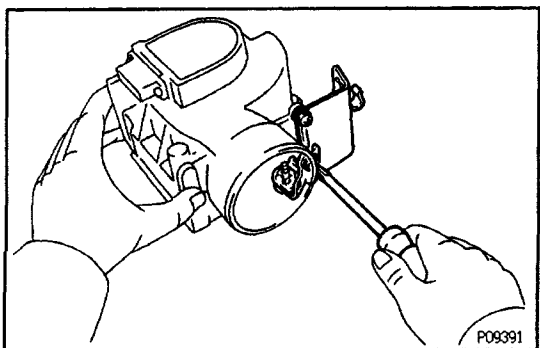
**4. REMOVE AIR CLEANER CAP, VOLUME AIR FLOW METER AND SILENCER**

- (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.

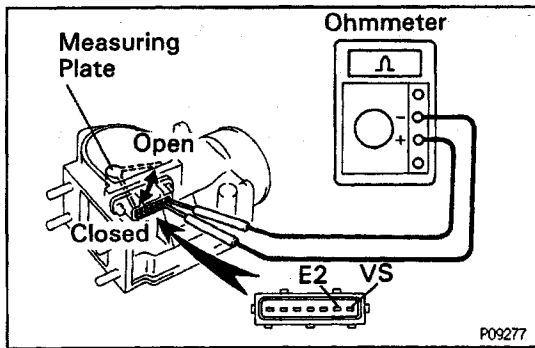


**5. REMOVE VOLUME AIR FLOW METER FROM AIR CLEANER CAP**

- (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.

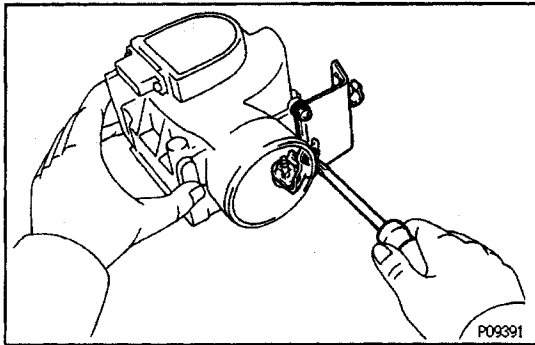
#### Resistance:

**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

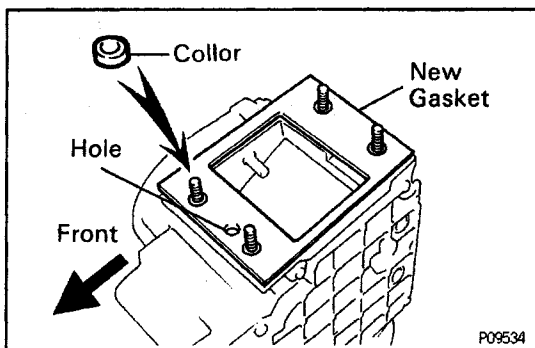
B018K-02

(See Components for Removal and Installation)

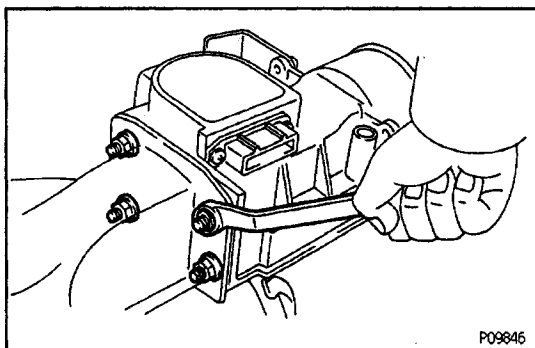
### 1. INSTALL VOLUME AIR FLOW METER TO AIR CLEANER CAP

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

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

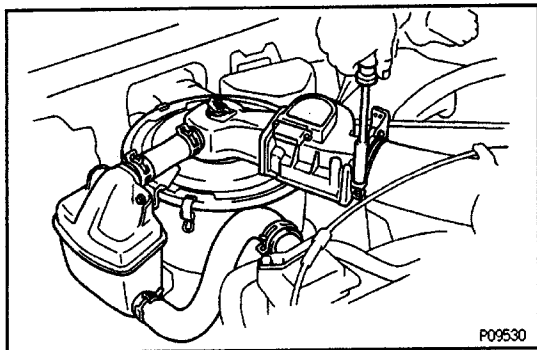


(b) Place a new gasket and the 4 collars on the VAF meter.



(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**