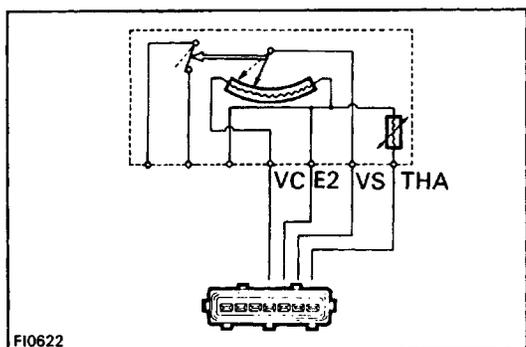
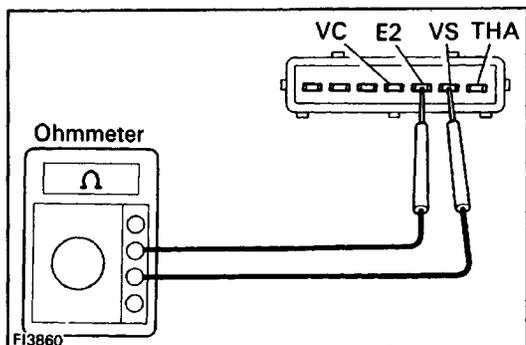
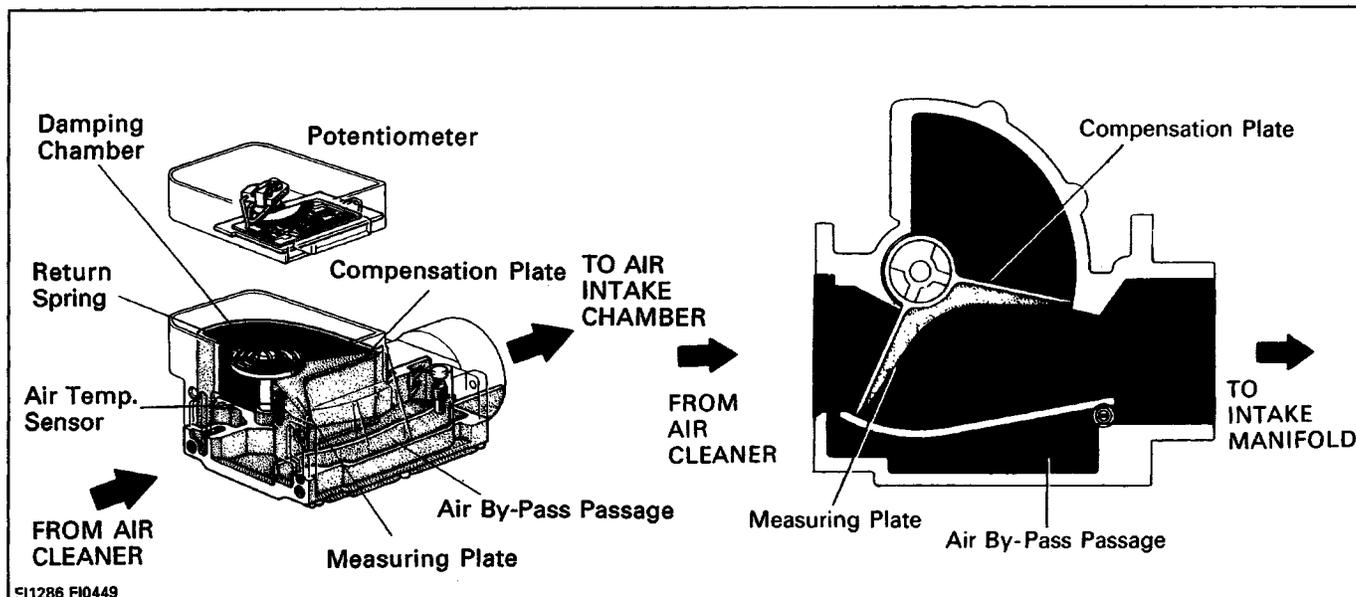


# AIR INDUCTION SYSTEM

## Volume Air Flow Meter (3S-GTE)



### ON-VEHICLE INSPECTION

#### INSPECT RESISTANCE OF VOLUME AIR FLOW METER

- (a) Disconnect the volume air flow meter connector.
- (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 - 20 kΩ 4 - 7 kΩ 2 - 3kΩ 0.9 - 1.3 kΩ 0.4 - 0.7 kΩ	-20°C (-4°F) 0°C (32°F) 20°C (68°F) 40°C (104°F) 60°C (140°F)

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

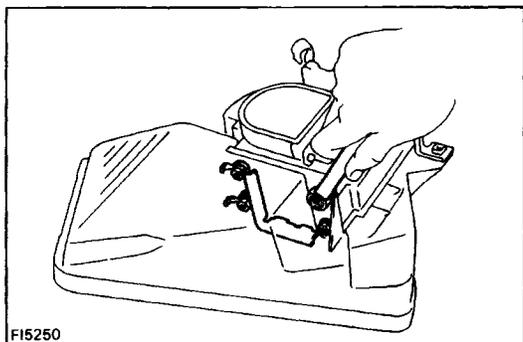
- (c) Reconnect the volume air flow meter connector.

### REMOVAL OF VOLUME AIR FLOW METER

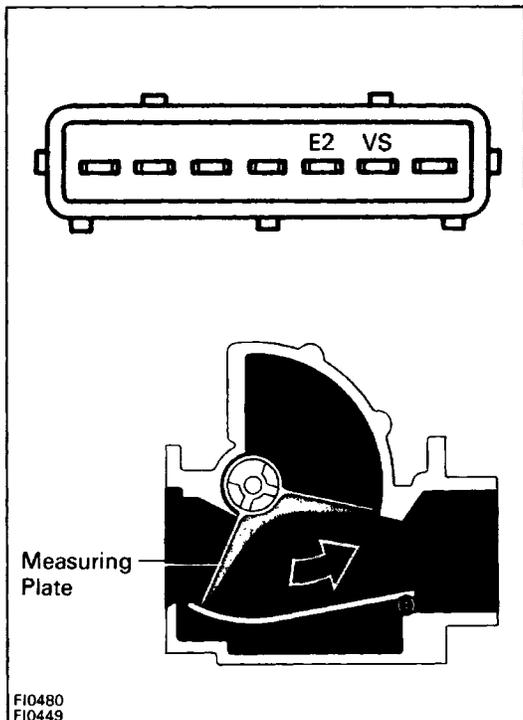
1. DISCONNECT CABLE FROM NEGATIVE TERMINAL OF BATTERY

**CAUTION:** Work must be started after approx. 20 seconds or longer from the time the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.

2. DISCONNECT VOLUME AIR FLOW METER CONNECTOR



3. DISCONNECT AIR CLEANER HOSE FROM VOLUME AIR FLOW METER
4. REMOVE AIR CLEANER CAP AND VOLUME AIR FLOW METER ASSEMBLY
5. REMOVE VOLUME AIR FLOW METER FROM AIR CLEANER CAP
  - (a) Pry off the lock plates.
  - (b) Remove the bolt, four nuts, volume air flow meter and gasket.



## INSPECTION OF VOLUME AIR FLOW METER

### INSPECT VOLUME AIR FLOW METER

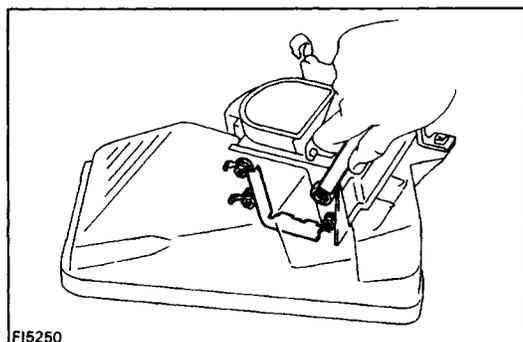
Using an ohmmeter, measure the resistance between terminals VS and E2 by moving the measuring plate.

**Resistance: 200 – 600  $\Omega$  at fully closed**

**20 –1,200  $\Omega$  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 volume air flow meter.



## INSTALLATION OF VOLUME AIR FLOW METER

1. INSTALL VOLUME AIR FLOW METER TO AIR CLEANER CAP
  - (a) Install a new gasket and the volume air flow meter with the bolt, two lock and plates and four nuts.
  - (b) Pry the lock plates.
2. INSTALL AIR CLEANER CAP AND VOLUME AIR FLOW METER ASSEMBLY
3. CONNECT AIR CLEANER HOSE TO VOLUME AIR FLOW METER
4. CONNECT VOLUME AIR FLOW METER CONNECTOR
5. CONNECT CABLE TO NEGATIVE TERMINAL OF BATTERY