

## GROUP 54

# CHASSIS ELECTRICAL

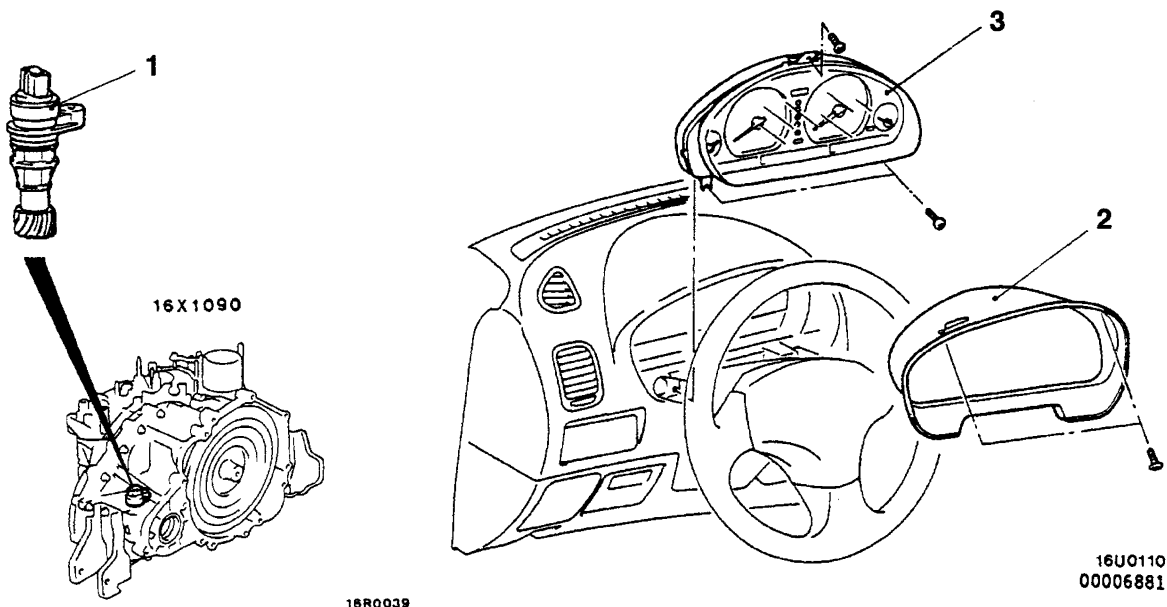
### GENERAL

#### OUTLINE CHANGES

- The inspection procedure and the maintenance procedure have been established to correspond to the change of the combination meter.
- The inspection procedure and the maintenance procedure have been established to correspond to the addition of the outside air temperature sensor. (Vehicles without fully automatic air conditioner)
- The inspection procedure has been established to correspond to the change of the rear window defogger switch.

### COMBINATION METERS

#### REMOVAL AND INSTALLATION

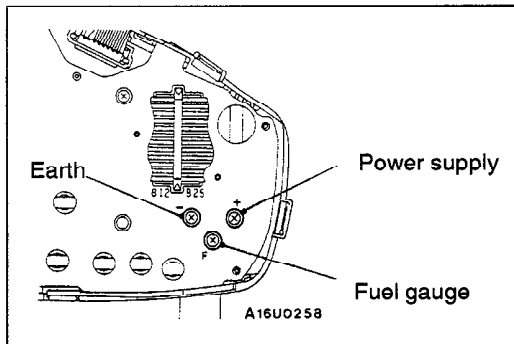
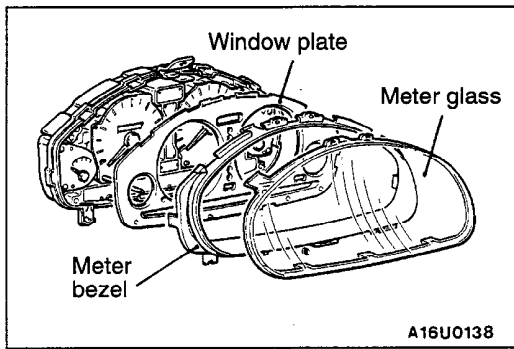


#### Vehicle speed sensor removal steps

- Air cleaner, air intake hose
- 1. Vehicle speed sensor

#### Combination meter removal steps

2. Meter bezel
3. Combination meter

**INSPECTION****FUEL GAUGE RESISTANCE CHECK**

- (1) Remove the meter glass, meter bezel and window plate.

- (2) Use a circuit tester to measure the resistance value between the terminals.

**NOTE**

The terminal positions are indicated by (F), (+) and (-).

**Standard value:**

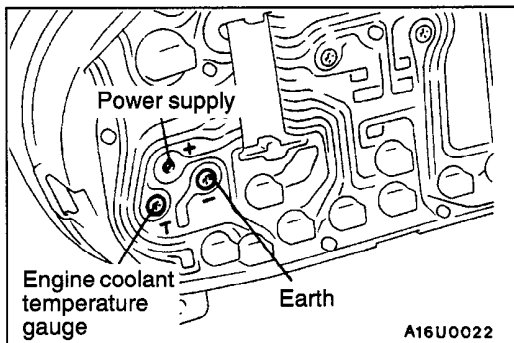
Power supply (+) – Earth (-): 117 – 143  $\Omega$

Power supply (+) – Fuel gauge (F): 46 – 57  $\Omega$

Fuel gauge (F) – Earth (-): 71 – 87  $\Omega$

**Caution**

When inserting the testing probe into the power supply terminal, be careful not to touch the printed board.

**ENGINE COOLANT TEMPERATURE GAUGE RESISTANCE CHECK**

1. Remove the power supply tightening screw.
2. Use a circuit tester to measure the resistance value between the terminals.

**NOTE**

The terminal positions are indicated by (T), (-) and (+).

**Standard value:**

Power supply (+) – Earth (-): 190 – 232  $\Omega$

Power supply (+) – Engine coolant temperature gauge (T): 51 – 62  $\Omega$

Engine coolant temperature gauge (T) – Earth (-): 240 – 294  $\Omega$

**Caution**

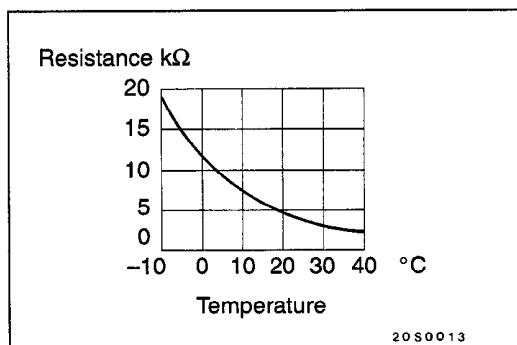
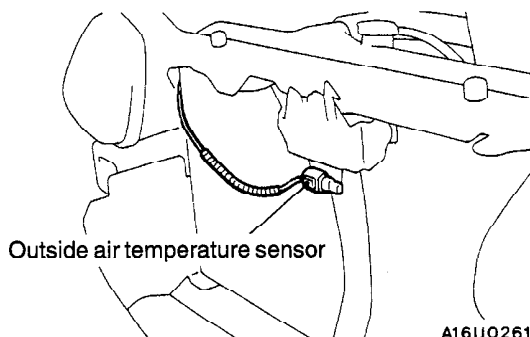
When inserting the testing probe into the power supply terminal, be careful not to touch the printed board.

# **OUTSIDE AIR TEMPERATURE SENSOR (VEHICLES WITHOUT FULLY AUTOMATIC AIR CONDITIONER)**

## **REMOVAL AND INSTALLATION**

### **Pre-removal and Post-installation Operation**

- Front Bumper Removal and Installation



## **INSPECTION**

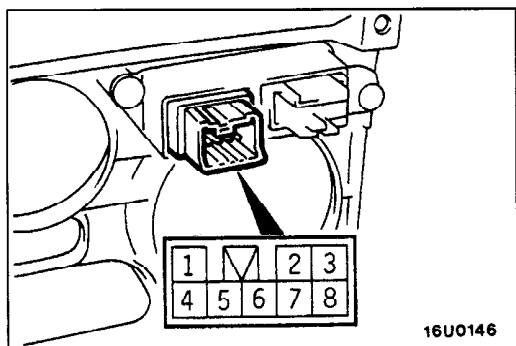
When the resistance value between the sensor terminals is measured under two or more temperature conditions, the resistance value should be close to the values shown in the graph.

### **NOTE**

The temperature conditions when testing should not exceed the range of the characteristic curve in the graph.

# REAR WINDOW DEFOGGER

## REAR WINDOW DEFOGGER SWITCH



### INSPECTION

#### DEFOGGER SWITCH CONTINUITY CHECK

| Switch position | Terminal No. |          |   |   |   |          |   |
|-----------------|--------------|----------|---|---|---|----------|---|
|                 | 4            |          | 6 | 3 | 5 |          | 7 |
| OFF             | ○            | ILL<br>⦿ | ○ |   |   |          |   |
| ON              | ○            | ILL<br>⦿ | ○ | ○ | ○ | IND<br>⦿ | ○ |