

# COMPRESSOR AND MAGNETIC CLUTCH

## ON-VEHICLE INSPECTION

AC2SV-01

### 1. INSPECT COMPRESSOR FOR METALLIC SOUND

Check there is abnormal metallic sound from the compressor when the A/C switch is ON.

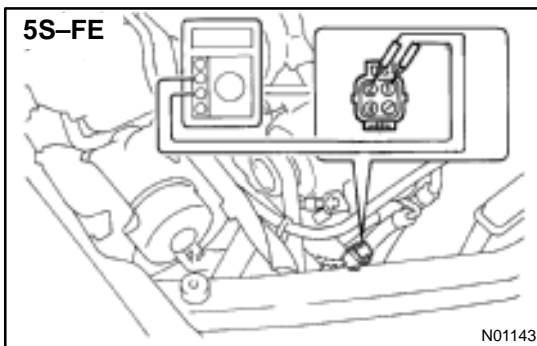
If abnormal metallic sound is heard, replace the compressor assembly.

### 2. INSPECT REFRIGERANT PRESSURE

(See page AC-3)

### 3. INSPECT VISUALLY FOR LEAKAGE OF REFRIGERANT

Using a gas leak detector, check for leakage of refrigerant. If there is any leakage, replace the compressor assembly.



### 4. 5S-FE:

#### INSPECT COMPRESSOR LOCK SENSOR RESISTANCE

- (a) Disconnect the connector.
- (b) Measure resistance between terminals 1 and 2 .

**Standard resistance:**

**165 – 205  $\Omega$  at 20 °C (68 °F)**

If resistance is not as specified, replace the sensor.

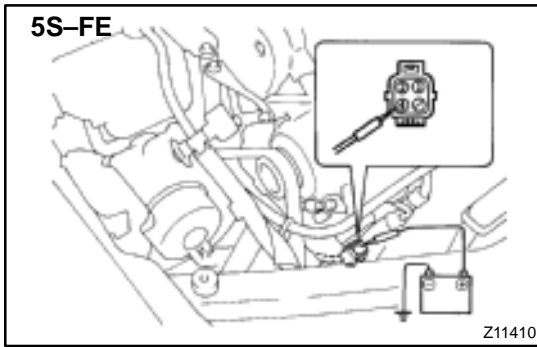
### 5. MAKE THESE VISUAL CHECKS:

- (a) Leakage of grease from the clutch bearing.
- (b) Signs of oil on the pressure plate or rotor.

### 6. INSPECT MAGNETIC CLUTCH BEARING FOR NOISE

- (a) Start engine.
- (b) Check for abnormal noise from the compressor when the A/C switch is OFF.

If abnormal noise is being emitted, replace the magnetic clutch.



## 7. INSPECT MAGNETIC CLUTCH OPERATION

- (a) Disconnect the connector.
  - (b) Connect the positive (+) lead from the battery to terminal 4 and the negative (-) lead to the body ground.
  - (c) Check that the magnetic clutch energized.
- If operation is not as specified, replace the magnetic clutch.

