

# COMPRESSOR AND MAGNETIC CLUTCH

AC1GA-03

## ON-VEHICLE INSPECTION

### 1. INSPECT COMPRESSOR FOR METALLIC SOUND

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

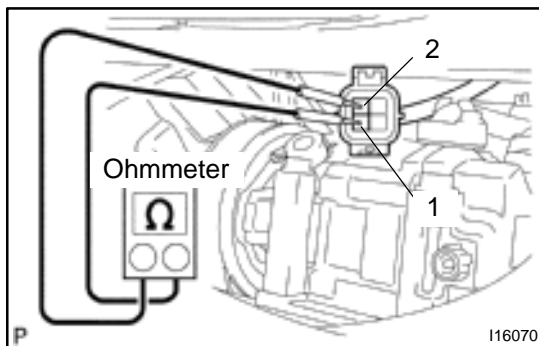
If abnormal metallic sound is heard, replace the compressor assembly.

### 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. INSPECT COMPRESSOR LOCK SENSOR RESISTANCE

- Disconnect the connector.
- Using an ohmmeter, measure the 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.

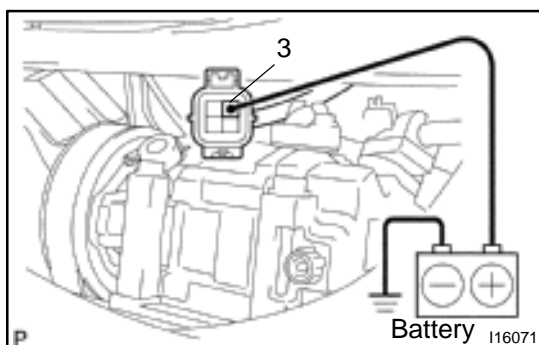
### 5. CHECK FOR LEAKAGE OF GREASE FROM CLUTCH BEARING

### 6. CHECK FOR SIGNS OF OIL ON PRESSURE PLATE OR ROTOR

### 7. INSPECT MAGNETIC CLUTCH BEARING FOR NOISE

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

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



### 8. INSPECT MAGNETIC CLUTCH OPERATION

- Disconnect the connector.
- Connect the positive (+) lead from the battery to terminal 3 and the negative (-) lead to the body ground.
- Check that the magnetic clutch energized.

If operation is not as specified, replace the magnetic clutch.