

# COMPRESSOR AND MAGNETIC CLUTCH

AC3B5-01

## 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.

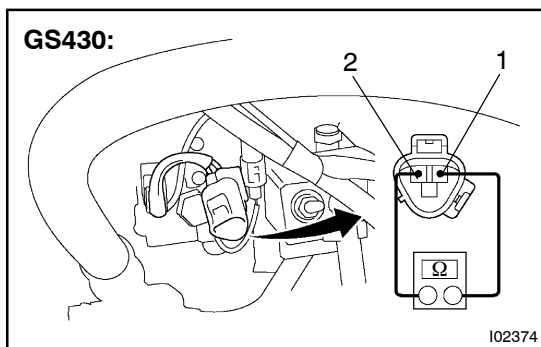
### 2. INSPECT REFRIGERANT PRESSURE

(See Pub. No. RM588E on 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.
- Measure resistance between terminals 1 and 2.

**Standard resistance:**

**570 – 1,050  $\Omega$  at 20°C (68 °F)**

If resistance is not as specified, replace the compressor.

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

### 6. CHECK 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 rotor of 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 is energized.

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

