

COOLING UNIT ON-VEHICLE INSPECTION

AC2NE-01

1. REMOVE GLOVE COMPARTMENT DOOR
2. INSPECT FOR LEAKAGE OF REFRIGERANT
 - (a) Remove the nut, screw and No.1 instrument panel lower bracket.

- (b) Remove the blower resistor.
 - (1) Disconnect the blower resistor connector.
 - (2) Remove the 2 screws and blower resistor.
 - (c) Inspect for the leakage of refrigerant, using a gas leak detector.

If there is leakage, check the tightening torque at the joints or check the evaporator (See pages [AC-29](#) and [AC-30](#)).

- (d) Reinstall the blower resistor with the 2 screws.
 - (e) Reconnect the blower resistor connector.
 - (f) Reinstall the No.1 instrument panel lower bracket with the nut and screw.

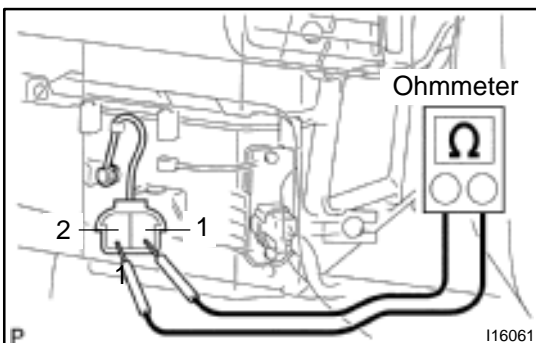
3. INSPECT EXPANSION VALVE

- (a) Check the quantity of gas during refrigeration cycle.
- (b) Set on the manifold gauge set.
- (c) Run the engine.
 - (1) Run the engine at 1,500 rpm for at least 5 minutes.
 - (2) Then check that the high pressure reading is 1.37 – 1.57 MPa (14 – 16 kgf/cm², 199 – 228 psi).
- (d) Check the expansion valve.

If the expansion valve is faulty, the low pressure reading will drop to 0 kPa (0 kgf/cm², 0 psi).

HINT:

When the low pressure drops to 0 kPa (0 kgf/cm², 0 psi), feel the receiver's IN and OUT sides for zero temperature difference.



4. INSPECT THERMISTOR RESISTANCE

- (a) Disconnect the thermistor connector.
- (b) Using an ohmmeter, measure the resistance between the terminals.

Standard resistance: 1,700 Ω at 25°C (77°F)

If resistance is not as specified, replace the thermistor.

5. REINSTALL GLOVE COMPARTMENT DOOR