EXPANSION VALVE

ON–VEHICLE INSPECTION

AC0KI–01

1. CHECK QUANTITY OF GAS DURING REFRIGERATION CYCLE

2. SET ON MANIFOLD GAUGE SET

(See page AC–21)

3. RUN ENGINE

(a) Run the engine at 1,500 rpm for at least 5 minutes.

(b) Then check that the high pressure reading is 1.37 – 1.57 MPa (14 – 16 kgf/cm^2, 199 – 228 psi).

4. CHECK EXPANSION VALVE

If the expansion valve is faulty, the low pressure reading will drop to 0 kPa (0 kgf/cm^2, 0 psi).

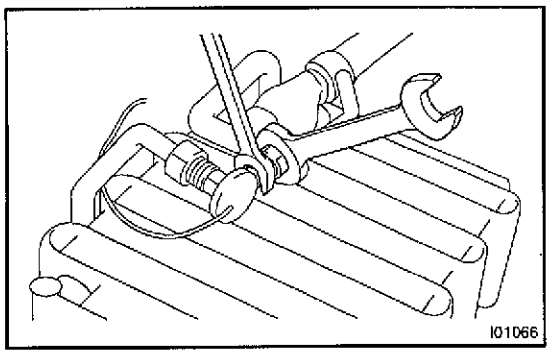
HINT:

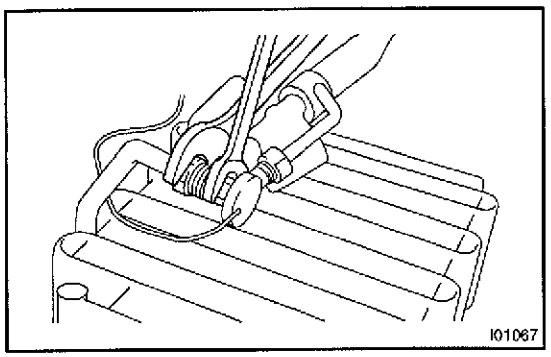
When the low pressure drops to 0 kPa (0 kgf/cm^2, 0 psi), check the receiver's IN and OUT sides for no temperature difference.

AC0KJ-01

REMOVAL

1. REMOVE EVAPORATOR
(See page AC–67)





2. REMOVE EXPANSION VALVE

(a) Remove the packing, clamp and heat sensing tube from suction tube of evaporator.

(b) Loosen the 2 nuts and remove the expansion valve.
Torque:
Expansion valve x Evaporator:
22 N·m (225 kgf·cm, 16 ft·lbf)
Expansion valve x Liquid tube:
14 N·m (140 kgf·cm, 10 ft·lbf)

NOTICE:
Cap the open fittings immediately to keep moisture or dirt out of the system.

HINT:
At the time of installation, please refer to the following item.
Lubricate 2 new O–rings with compressor oil and install the valve and tubes.

AC0KK-01

INSTALLATION

Installation is in the reverse order of removal (See page AC–74).