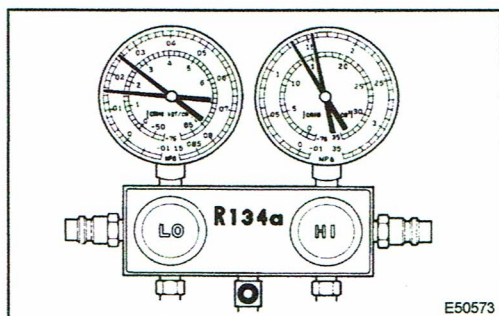


2. INSPECT REFRIGERANT PRESSURE WITH MANIFOLD GAUGE SET

- (a) This is a method in which the trouble is located by using a manifold gauge set. Read the manifold gauge pressure when these conditions are established.

Test conditions:

- Temperature at the air inlet with the switch set at RECIRC is 30 to 35°C (86 to 95°F)
- Blower speed control switch at "HI" position
- Temperature control switch at "MAX COOLD" position
- A/C switch ON
- Fully open doors



- (1) The refrigeration system functions normally

Gauge reading:

Low pressure side:

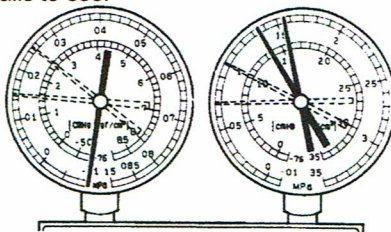
0.15 to 0.25 MPa (1.5 to 2.5 kgf/cm²)

High pressure side:

1.37 to 1.57 MPa (14 to 16 kgf/cm²)

- (2) Moisture present in refrigeration system

Condition: Periodically cools and then fails to cool



I22117

Symptom	Probable cause	Diagnosis	Corrective Actions
During operation, pressure on low pressure side cycles between normal and vacuum	Moisture in refrigerating system freezes at expansion valve orifice, causing a temporary stop of cycle. However, when it melts, normal state is restored.	<ul style="list-style-type: none"> • Cooler dryer in oversaturated state • Moisture in refrigeration system freezes at expansion valve orifice and blocks circulation of refrigerant 	<ul style="list-style-type: none"> (1) Replace cooler dryer (2) Remove moisture in cycle by repeatedly evacuating air (3) Supply proper amount of new refrigerant