

ON-VEHICLE INSPECTION

EA9864CB

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

TEST CONDITIONS

- Temperature at the air inlet with the switch set at recirculation is 30~35°C (86~95°F).

- Engine running at 1,500rpm.
- Blower speed control knob on "4" position.
- Temperature control knob on "COOL" position.

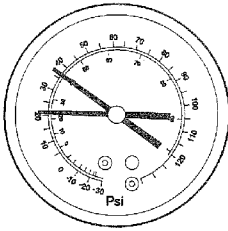
NOTE

It should be noted that the gauge indications may vary slightly due to ambient temperature conditions.

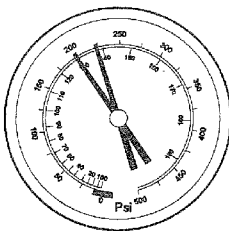
1. Normally functioning refrigeration system.

Low pressure side : 0.15~0.25MPa (1.5~2.5 kg/cm², 21.8~36.3psi)
 High pressure side : 1.37~1.57MPa (14~16 kg/cm², 200~228psi)

Low pressure



High pressure

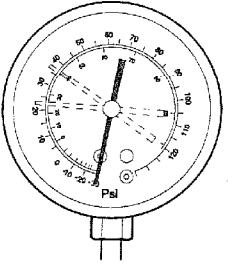


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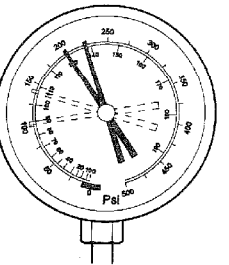
2. Moisture present in refrigeration system.

Condition : Periodically cools and then fails to cool

Low pressure



High pressure



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Symptom seen in refrigeration system	Probable cause	Diagnosis	Remedy
During operation, pressure on low pressure side sometimes becomes a vacuum and sometimes normal	Moisture entered in refrigeration system freezes at expansion valve orifice and temporarily stops cycle, but normal state is restored after a time when the ice melts	<ul style="list-style-type: none"> - Drier in over saturated state - Moisture in refrigeration system freezes at expansion valve orifice and blocks circulation of refrigerant 	<ul style="list-style-type: none"> - Replace drier - Remove moisture in cycle through repeatedly evacuating air - Evacuate air and charge new refrigerant to specified amount