

10. Performance Test

A: INSPECTION

1. VEHICLE SET UP

In order to obtain meaningful test results, the vehicle must be set up to meet the following conditions.

- Vehicle in shade
- No wind
- All vehicle doors closed
- Front windows opened
- Hood opened
- Engine speed set at 1,500 rpm.
- A/C ON
- Temperature control lever — Maximum cold
- Air source — Recirculation
- Blower speed — 4th position (High)
- Operate A/C for 10 minutes (Minimum) before taking measurement.

2. MEASUREMENTS

After 10 minutes (Minimum) of A/C operation and using accurate test equipment, take the following measurements (in order).

- 1) Evaporator intake air temperature at recirculation door.
- 2) Evaporator discharge air temperature at center grill.
- 3) Condenser (Ambient) intake air temperature measured 0.9 m (3 ft) in front and in line with the center of the condenser.
- 4) Suction (Low) side pressure
- 5) Discharge (High) side pressure

NOTE:

If only one thermometer is available; 1)take the ambient measurement first; then 2)the intake air; and 3)discharge air temperature.

3. MEASUREMENT STANDARD BY VERSES

Compare temperature and pressure measurements with the established standards shown in the following charts.

PERFORMANCE CHART

CONDITIONS

- Engine speed: 1500 rpm
- Vehicle condition: Indoors
- Doors: Closed
- Windows and engine hood: Open
- Windshield velocity: 2m/sec (6ft-sec) or less
- Air humidity at windshield: 50 to 70%
- Mode switch: VENT
- Recirc switch: RECIRC
- Fan switch: 4
- Temperature level: Full cold
- A/C switch: ON

