TROUBLE-SHOOTING PROCEDURES

1. **Visual Check (engine off)**
   - Identify system type
   - Check system components and refrigerant lines for obvious damage, leaks, or wear.
2. **Gauge Hook-up**
   - Hook-up gauges and check system pressures—if both gauges read 0 P.S.I. system is out of refrigerant—evacuate and recharge system before operating.
   - Purge gauges
3. **Test Conditions (engine on)**
   - Stabilize system
   - Engine running at 1700 R.P.M.
   - Set controls for maximum cooling and high blower
   - Open doors
   - Run for approximately 5 min.
   - Close doors
   - Blower motor to low
4. **Test Procedure**
   - Measure ambient temperature and find normal pressures from pressure-temperature chart below. (Measure temperature 2″ in front of condenser.)
   - Take high and low side gauge reading.
   - Feel evaporator outlet pipe.
   - Check sight glass (if fitted).
   - Consult the trouble-shooting chart for the system being serviced

CAUTION: Prolonged running in the test condition may cause dangerously high system pressures due to poor air flow.

PRESSURE—TEMPERATURE RELATIONSHIP—R12

IF AMBIENT TEMPERATURE IS:	NORMAL LOW SIDE GAUGE READING IS:*	NORMAL RANGE FOR HIGH SIDE GAUGE READING IS:
70°F	12 P.S.I.	115-135 P.S.I.
75°F	14 P.S.I.	130-150 P.S.I.
80°F	16 P.S.I.	150-170 P.S.I.
85°F	18 P.S.I.	165-185 P.S.I.
90°F	20 P.S.I.	175-195 P.S.I.
95°F	22 P.S.I.	185-205 P.S.I.
100°F	24 P.S.I.	210-230 P.S.I.
110°F	26 P.S.I.	230-250 P.S.I.
115°F	28 P.S.I.	250-270 P.S.I.
120°F	30 P.S.I.	265-285 P.S.I.

*On systems with STV, POA, EPR valves or VIR assemblies, the low side reading will not vary with temperature. Low-side pressure readings should be 26-32 P.S.I. on POA and STV systems and 22-32 P.S.I. on EPR systems regardless of the ambient temperature.

NORMAL SERVICE

Whenever a major component is replaced or the system is opened, the following normal service should be done:

- Recover and Recycle Refrigerant
  CFC emissions deplete the ozone.
- Installation of an In-line filter(s) is recommended.
- Check compressor oil level
- Replace receiver-filter-drier, accumulator, or desiccant in V.I.R. system
- Evacuate and recharge system