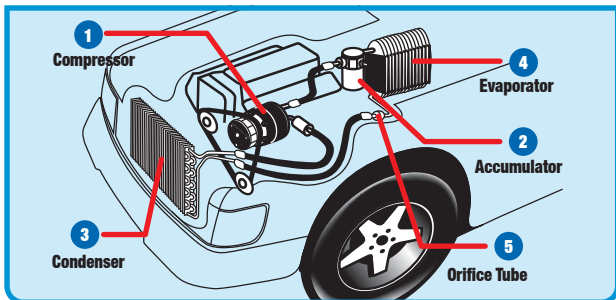


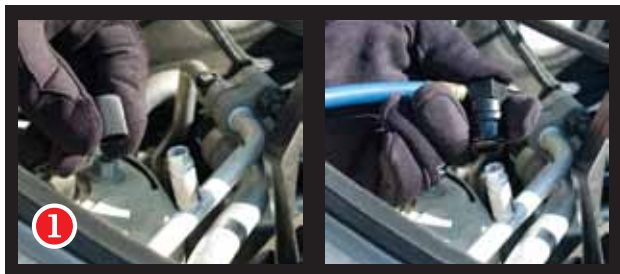
DO-IT-YOURSELF STEP-BY-STEP GUIDE FOR A/C RECHARGING. DO IT RIGHT!

Typical Orifice Tube A/C System



Did you know two-thirds of cars use an orifice tube system to regulate refrigerant flow to the evaporator? An orifice tube is a fixed metering device. The other one-third use an expansion valve system that senses pressure in the evaporator outlet and adjusts flow.

- 1. ALWAYS WEAR INSULATED GLOVES & SAFETY GLASSES.**
- 2. IF SYSTEM REQUIRES RECHARGE MORE THAN ONCE A YEAR, IT HAS A LEAK.** Diagnose and repair leaks before adding refrigerant.
- 3. READ THE LABEL** and prepare by understanding the instructions.
- 4. PREPARE YOUR TOOLS**, as specified on the product label. Lay out the proper charging hose, gauge, safety gear and hand tools in an accessible place.
- 5. IF NOT PRE-ASSEMBLED, ATTACH CHARGING HOSE TO REFRIGERANT CAN**, following hose or can instructions.
- 6. TO IDENTIFY A/C FILL CAPACITY FOR YOUR SPECIFIC VEHICLE, LOCATE A/C SYSTEM NAMEPLATE** in the engine compartment. NOTE THE COMPLETE SYSTEM CHARGE VOLUME. For optimal cooling, NEVER EXCEED MAX CHARGE.
- 7. LOCATE YOUR VEHICLE'S LOW SIDE A/C SERVICE PORT** and remove the blue or black protective cap. It's a "SNAP"; the charging hose will only fit on the low-side port. *(see image #1)*



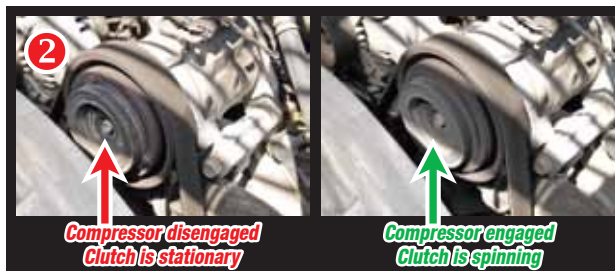
- 8. START THE ENGINE**, turn on the A/C to maximum cooling, the fan switch to high and the temperature dial to full blue.
- 9. ATTACH QUICK CONNECTOR TO LOW-SIDE PORT** by pulling back connecting ring or snapping into place. Check to assure it is securely locked.
- 10. DIAGNOSE A/C SYSTEM BEFORE ADDING REFRIGERANT** using a charging hose with a gauge, an electronic meter or manifold gauge set. Compare gauge reading to the chart (top of right column). If pressure reading is below chart range, you may add refrigerant.

AMBIENT TEMPERATURE - PRESSURE CHART

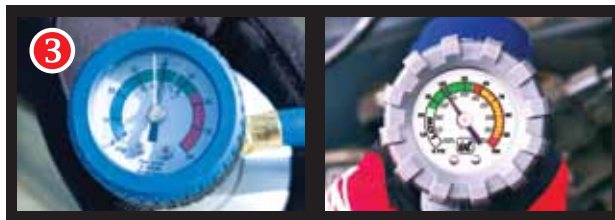
If Ambient Temp (F°/C°) is:	Low Pressure Gauge Should Read:
65°F (18°C)	25-35 psi
70°F (21°C)	35-40 psi
75°F (24°C)	35-45 psi
80°F (27°C)	40-50 psi
85°F (29°C)	45-55 psi
90°F (32°C)	45-55 psi
95°F (35°C)	50-55 psi
100°F (38°C)	50-55 psi
105°F (41°C)	50-55 psi
110°F (43°C)	50-55 psi

NOTE: Ambient temp is the outside atmospheric temperature. Pressure may only be taken when compressor is running. Determine by looking at the center of compressor pulley. *(see image #2):*

- If rotating, it's on.
- If it will not engage, add a can of R-134a.
- If compressor still won't cycle on, seek professional service advice.



- 11. ADD REFRIGERANT** by opening dispensing valve or pulling the trigger, as shown in the charging device's instructions
- 12. WHILE CHARGING, HOLD CAN UPRIGHT, AGITATING FREQUENTLY USING A 12 O'CLOCK TO 3 O'CLOCK MOTION.** It takes 5 to 15 minutes to dispense a can of refrigerant.
- 13. CHECK PRESSURE GAUGE** every minute or so. To accurately check pressure, refrigerant cannot be flowing. Follow instructions: release trigger or close dispensing valve to measure pressure.
- 14. REPEAT STEPS 11, 12, & 13 AS NEEDED**, until correct pressure is reached, can feels empty, or refrigerant stops flowing. NOTE: If can feels empty, turn upside down for 1 minute to remove all contents. Signs of an empty can include no detectable refrigerant movement and can is no longer cold to the touch.
- 15. A PROPERLY CHARGED A/C SYSTEM** will not only read correct gauge pressure *(see image #3)* but air exiting all interior vents should be the same approximate cooled temperature. For optimal cooling, DO NOT OVERCHARGE OR UNDERCHARGE!



- 16. REMOVE QUICK CONNECT FROM LOW-SIDE PORT** by pulling connector ring back and straight up from service port. Replace protective cap on Low-Side Port.
- 17. REMOVE EMPTY CAN FROM CHARGING HOSE** unless permanently attached.
- 18. RETURN ALL USED CONTAINERS TO THE PLACE OF PURCHASE FOR RECYCLING & REFUND OF YOUR DEPOSIT.**