

# R-134a Retrofit & Charging Kit

This kit provides the basic Tools and full amount of R-134a Oil Charge required for a “Least Cost” conversion of a Refrigerant 12 Auto Air Conditioner to R-134a. In addition to these components you will require R-134a Refrigerant

Refill. This is available in the store at which you purchased this kit. Check Owners Manual or Plate on air conditioner and fill your converted system with R-134a to 85% of its listed capacity.

**BEFORE CHARGING:** Check Warning on 134a Refrigerant & Oil Charge Cans and Consult Auto Service Manual

## INSTRUCTIONS

Any remaining R-12 Refrigerant in your A C System must be removed without venting by a certified mechanic with approved R-12 Recovery Equipment.

### I. CONVERSION OF LOW & HIGH SIDE R-12 SERVICE PORTS WITH 134a ADAPTERS

1. Remove dust caps from A C Service Ports.
2. Clean Service Port Threads.
3. Screw the 134a Adapters that are coated with self-locking adhesive on each of the Service Ports.
4. The Low Side Port will receive the long adapter.
5. The High Side Port will receive the short adapter.
6. The system is now ready for Charging.

### II CHARGING WITH 134a REFRIGERANT

As system is empty, it will be necessary to charge system with R-134a Refrigerant & Oil in the following sequence.

1. Two (2) cans of refrigerant to activate the system.
2. Both cans of Oil Charge.
3. Balance of 134a Refrigerant needed.

### III PREPARING KIT FOR USE

1. Turn Can Tap Valve handle in counter clockwise direction until it stops in order to withdraw piercing needle.
2. Screw Can Tap Valve on threaded valve on top of 134a Refrigerant Can.

3. Thread High Pressure Hose on Can Tap Valve.

### IV CHARGING PROCEDURE

Quick Connect hose fitting will only fit low side or suction valve of air conditioning system.

*Never connect to high side.*

1. Locate Low side service port of AC System
2. Connect hose fitting as follows:
  - a. Pull sleeve back while pushing on to male service port.
  - b. Push sleeve forward, making sure that coupler fits tightly in place.
3. Turn AC to maximum cool and start Engine.  
(Do not do so in closed garage).
  - a. Turn valve handle in clockwise direction allowing piercing needle to puncture 134a Can.
4. YOU ARE NOW READY TO CHARGE.
  - a. Turn valve handle back in counter clockwise direction to open valve to permit refrigerant to flow into system.
  - b. Because system is empty, charge system with first two (2) cans in upside down position to activate the system.
    - ✱ Any additional cans needed to reach 85% of capacity should be charged in upright position. This should not be performed until system is charged with oil. See “II - CHARGING WITH 134a REFRIGERANT” for sequence.

5. After each 134a Refrigerant can has been emptied into AC system, close valve by turning valve handle in clockwise position until stopped.
  - a. Remove quick connect fitting by pulling sleeve back once more.
  - b. Remove charging valve and hose from empty can and discard.
6. OIL CHARGE FOR 134a SYSTEM  
Follow same procedure as described for first can of 134a Refrigerant. Shake vigorously and charge with both Oil Charge cans supplied, into system while in upside down position.
7. ✱ ADDITIONAL FILL OF R-134a REFRIGERANT  
Complete charge with balance of Refrigerant 134a needed to achieve 85% of capacity. Can should be in upright position.
  - a. If there is material remaining in can, keep closed valve in place. If you need to remove charging valve and hose from can, immediately screw black stopper cap supplied, on threaded valve built into top of can.
8. Screw dust caps on service ports: Red on High Side, Blue on Low Side.
9. Complete Retrofit Label and apply to visible surface, as required by EPA Regulations.