

R-134a Retrofit & Charging Kit

This kit provides the basic tools and total amount of R-134a Oil Charge and R-134a Refrigerant required for conversion of a refrigerant R-12 to R-134a. Check **TECHNAUTICS** Charging Instructions.

BEFORE CHARGING: Check Warning on Charge Cans. - Any remaining R-12 Refrigerant in your System must be removed without venting by a certified mechanic with approved R-12 recovery equipment.

INSTRUCTIONS

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

1. Remove dust caps from service port on compressor.
2. Clean service port threads.
3. Screw the R-134a adapters that are coated with self-locking adhesive on low side of the service port.
4. Location of service ports
 - a. Low side service port – blue cap. The low side service port is located on the compressor large diameter hose that remains cool and may usually be found between the compressor and the plate, 5.
 - b. High side service port on compressor – red cap. Low side service port will receive the female adapter.
5. The system is now ready for charging.

II. CHARGING WITH R-134a REFRIGERANT

As system is empty, it will be necessary to charge system with R-134a refrigerant and oil in the following sequence.

1. One can of R-134a refrigerant to activate the system.
2. Complete oil charge.
 - a. Charge with oil immediately after adding refrigerant to protect compressor.
3. Balance of R-134a refrigerant needed.

III. PREPARING KIT FOR USE

1. Turn can tap valve handle in the counterclockwise direction until it stops in order to withdraw piercing needle.
2. Screw can tap valve on threaded valve on top of R-134a refrigerant can.
3. Thread pressure hose on can tap valve.

IV. CHARGING PROCEDURE

Quick connect hose fitting will only fit low side or suction valve of system.

NEVER CONNECT TO HIGH SIDE

1. Locate low side service port, blue cap on compressor.
 - a. Pull sleeve back while pushing on to male service port.
 - b. Push sleeve forward, making sure that coupler fits tightly into place.

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 to maximum cool and start engine.
 - a. Turn valve handle in clockwise direction allowing piercing needle to puncture R-134a can.
4. You are now ready to charge.
 - a. Turn valve handle back on counterclockwise direction to open valve to permit refrigerant to flow into system.
 - b. To activate the system, charge the system with the first can in the upside down position to activate the system. *Any additional cans needed to reach full capacity should be charged in the upright position. This should not be performed until system is charged with oil. See "II. CHARGING WITH R-134a REFRIGERANT" for sequence.
5. After each R-134a refrigerant can has been emptied into system, close valve by turning valve handle in clockwise motion 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 R-134a system. Shake oil can vigorously . Turn oil can upside down and charge system with oil using the same directions as the first can of R-134a.
7. Complete the charging of the system with the balance of R-134a refrigerant until the site-glass is full. Can should be in the upright position.
 - a. If there is refrigerant in the can, keep valve in place & close tightly.
8. Screw dust caps on to service port, blue goes on the low side.
9. Complete retrofit label and apply to visible surface, as required by EPA regulations.

