

IMPORTANT INFORMATION

After 1994 every vehicle was designed for R134a refrigerant. The Jeep kit you are about to install is not any different. This is a brand new a/c kit that is capable of a vent temperature of 39-47 degrees. The kit is not designed for sealer, dye, or Freon substitutes. If these substances are used we are not responsible for the performance of the a/c system.

This kit was created with the customer in mind. It is the simplest kit on the market to install, and it can be done without any special tools. The kit will fit into the Jeep just as the factory designed it too. Follow the directions and you will have cold air conditioning in less than a day. Before beginning the installation please read the directions provided, and view the enclosed CD to get familiar with the kit and installation process. Before beginning the installation go through the checklist on the following page. If any parts are not included contact us immediately.

We would like to thank you again for your business, and we would like to assure you that we are here if you need technical assistance.

SINCERELY THE STAFF OF
NOSTALGIC AIR PARTS, Inc.
JEEPAIR.COM

CheckList

- COMPRESSOR W/ OIL
- EVAPORATOR W/ TRAY AND FOAM
- CONDENSER
- ACCUMULATOR DRIER
- LIQUID LINE
- HOSE MANIFOLD
- BINARY SAFETY SWITCH
- CYCLING SWITCH
- RELAY
- 20 AMP ATM FUSE
- BELT
- FOUR M-8 1.25 X 110MM BOLTS W/ WASHERS
- ONE COMPRESSOR MANIFOLD BOLT
- A/C CONTROL HEAD FACE PLATE
- ACCUMULATOR STRAP
- ACCUMULATOR SUPPORT BRACKET
- TWO 5/16 J-BOLTS
- FOUR 5/16 X 1" BOLTS WITH WASHERS
- TWO 5/16 LOCK WASHER
- FRESH AIR DOOR
- VACUUM ACTUATOR
- VACUUM TUBE WITH COUPLING

- TIE STRAP
- DIRECTIONAL CD

Step One Removing the Radiator

1. REMOVE THE POSITIVE AND NEGATIVE BATTERY CABLES and REMOVE THE BATTERY FROM THE VEHICLE Drain the radiator
2. Remove the upper and lower radiator hose
3. Remove the overflow tank and power steering reservoir, located on the fan shroud
4. Remove the four bolts that mount the shroud to the radiator, slide the shroud back to the motor, REMEMBER TO SLIDE THE SHROUD BACK OVER THE FAN PRIOR TO INSTALLING THE RADIATOR
5. Remove the four upper bolts from the radiator core support, loosen the lower two bolts
6. Slide the radiator up and out

Step Two Install the Compressor

1. Move all the wires off of the factory mounting bracket located on the passenger side of the engine
2. Remove the air cleaner tube
3. Make sure the four bolt holes are not dirty or corroded. You may need to tap the four holes with an M-8 1.25 Tap prior to mounting the compressor
4. Place the compressor on the mounting bracket; make sure the coil wire is not pinched. The fittings point up
5. Insert the four bolts into the compressor, hand tight into the mount
6. After all four bolts are started, tighten all four bolts
7. DO NOT PLUG THE COIL WIRE INTO THE PLUG
8. See CD for more images



Step Three Condenser Installation

1. Install J-nuts into lower core support
2. Set the condenser on the core support, hang it to the top by the tabs
3. Install the top two bolts, be sure to put washers on the bolts and lock washers on the bottom **DON'T TIGHTEN THE BOLTS**
4. Install the bottom two bolts and washers Tighten lower bolts
5. Tighten Top Two bolts
6. See CD for more images

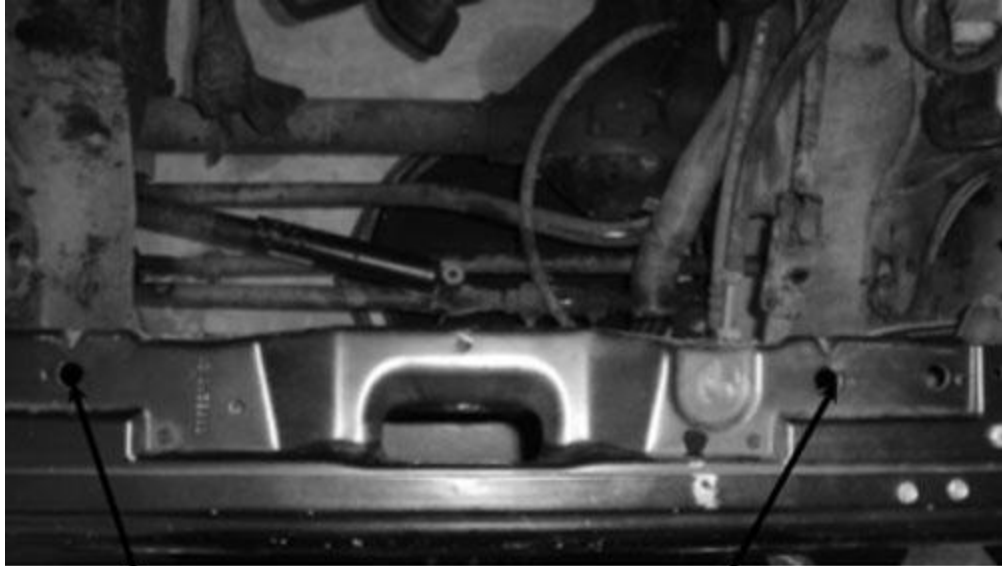


Figure 3.1

Holes for mounting
Condenser

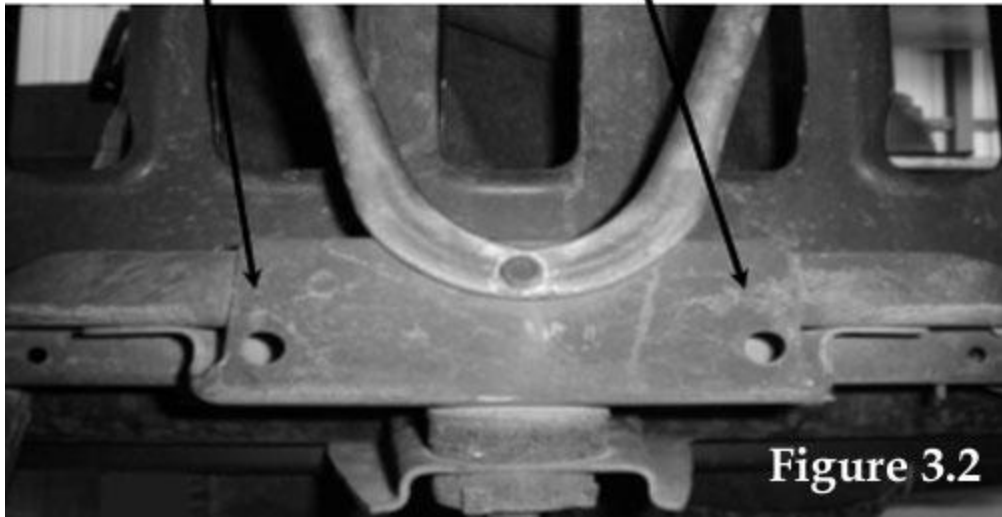
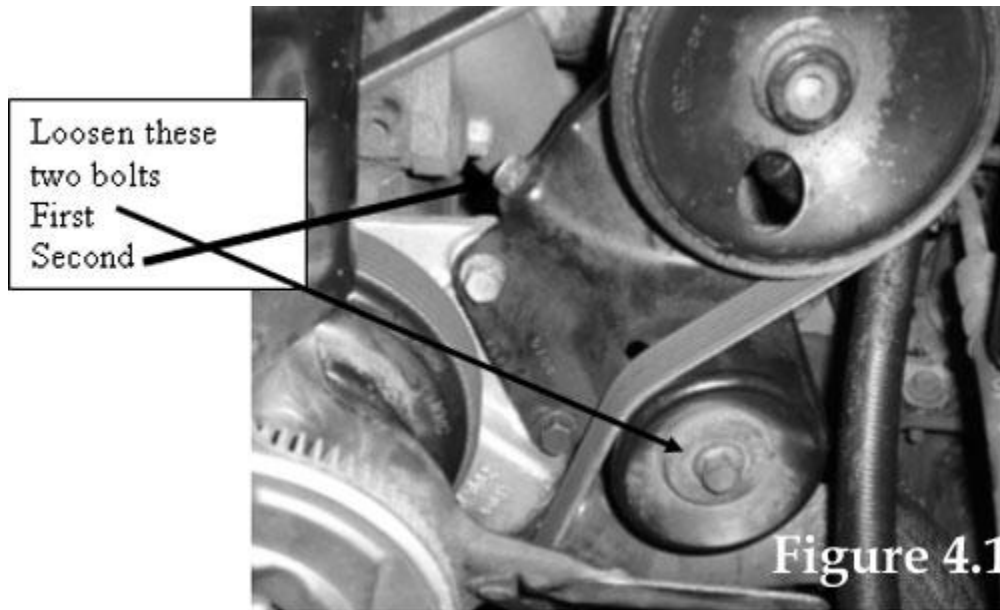


Figure 3.2

Step Four Belt Installation

1. Loosen idler pulley located under the power steering pump (loosen center pulley bolt, then loosen bolt located on top of idler pulley bracket)
2. Remove the old belt and install the new belt
3. Tighten Idler pulley bolts, top first then center pulley bolt

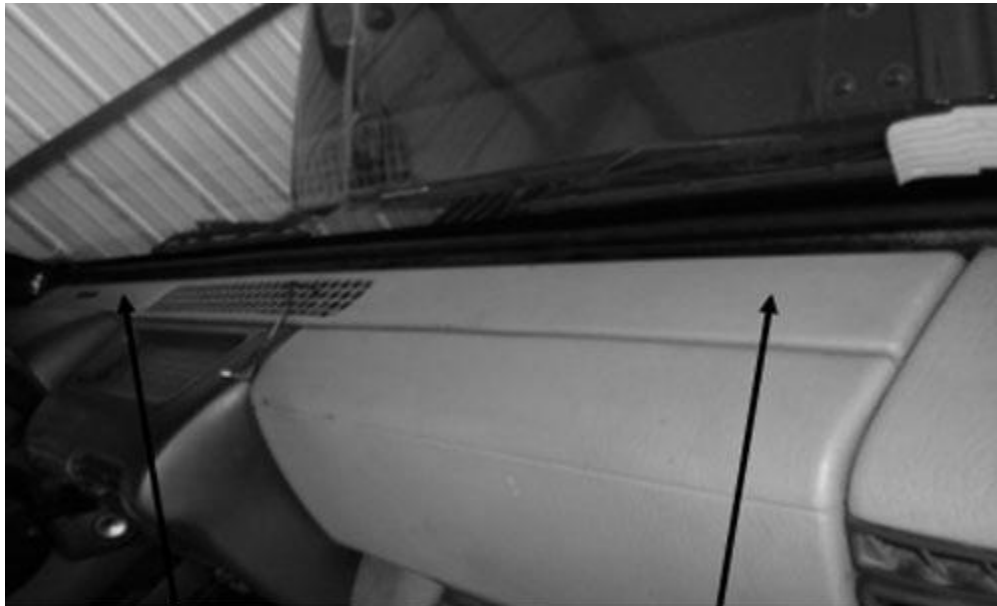


Step Five Radiator Installation

1. Slide the shroud over the engine fan
2. Install the radiator, rest the lower brackets on the lower two bolts (loose in the core support)
3. Install all radiator bolts, don't tighten until all bolts are started
4. Place shroud up to radiator, insert the bolts, tighten all bolts after they are started
5. Install upper and lower radiator hoses
6. Install the power steering reservoir and the radiator overflow tank
7. Again make sure the drain, located on the bottom of the radiator, is tight
8. The radiator can be filled now, or you can wait until the installation is finished.

Step Six Removing Control Head

1. Remove the ashtray, and the Philips head screws located behind the opening
2. Remove the defrost grill (no screws) pull straight up
3. Remove the two Philips head screws holding the top center vent panel
4. Remove the center vent panel
5. Remove the four screws holding the control head
6. Remove the electrical plugs and the cable; unplug the vacuum lines at the connection located behind the dash. See fig. 6-2



Remove panel / pull up

Figure 6.1



Figure 6.2

Step Seven Dashboard removal

1. Remove three torx bits from each side of the dash, six total (T-30) Fig. 7-1
2. Remove four 6mm nuts from top of dash Fig.7-2 (Pictured on cd)
3. Remove the cover on the bottom of the plenum (over transmission tunnel, in front of console) Fig.7-3



Remove Six torx bolts

Figure 7.1



Remove all four
6mm nuts
(Only one pictured)

Figure 7.2



Cover on bottom
of plenum, two
screws to remove
Console
Cover
location

Figure 7.3

4. Remove the glove box by pulling the tab on passenger side of glove box toward center of vehicle. Let glove box drop, and lift off hinges.
5. Remove two nuts through glove box opening
6. Remove lower panel under steering column by removing two screws and pulling back on top of panel. Lift off hinges Fig. 7.4

7. Remove reinforcement plate behind lower panel by removing four screws Fig. 7.5
8. Remove two nuts securing steering column. Let steering column hang loose.



9. Disconnect blend door cable from blend door crank by removing push nut. Disconnect cable housing by pressing tabs on both sides of cable retainer lock. (May not be on all 98 and newer wranglers)
10. Disconnect wire harness from dash to heater
11. Remove fuse panel by removing to screws at top of panel. Fig. 7.6



Figure 7.6

12. Remove bolt securing heater case to fuse panel bracket
13. Remove heater floor outlet by removing two screws from front of outlet door pulling out on the floor outlet.

Step Eight Dashboard Removal Under Hood

1. Disconnect Heater hose and vacuum line
2. Remove five nuts from heater case mounting studs on firewall. One is located under the blower motor. There are two nuts on one stud above the drain.
3. On the inside of vehicle, lift up the dash to clear the studs across the top of the dash. Pull back on passenger side of dash and let it rest on the front seat.
4. Remove heater case from vehicle through passenger door.

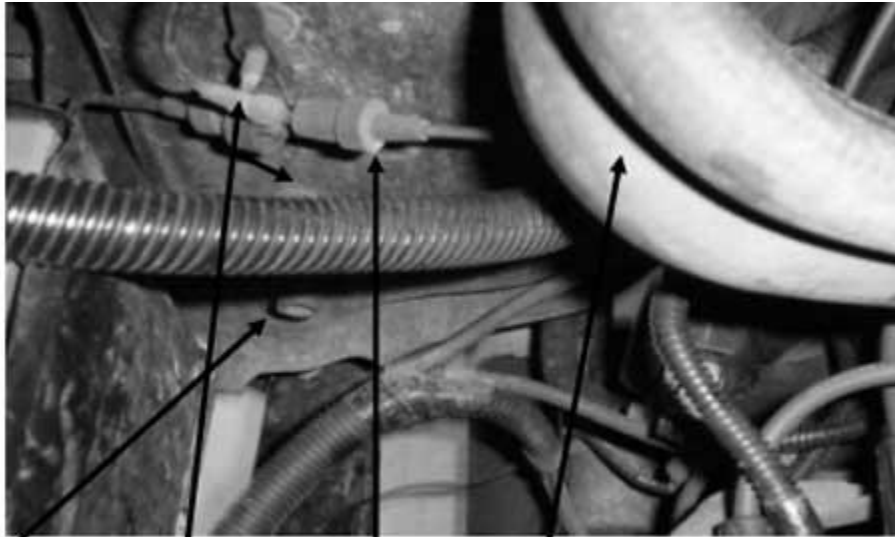


Figure 8.1

Drain	Studs	Vacuum line	Heater hoses
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Step Nine Separating the Evaporator case

1. Put the case on a table or bench for easier working conditions. Remove the 15 screws holding the case halves together; remove the two clips holding the case together, and the three screws securing blower motor to the case.
2. Remove the firewall gasket at the blower motor and heater core tubes. Remove the blower motor
3. Separate the evaporator halves.
4. Remove the air inlet cover on the bottom of case, four screws



Figure 9.1

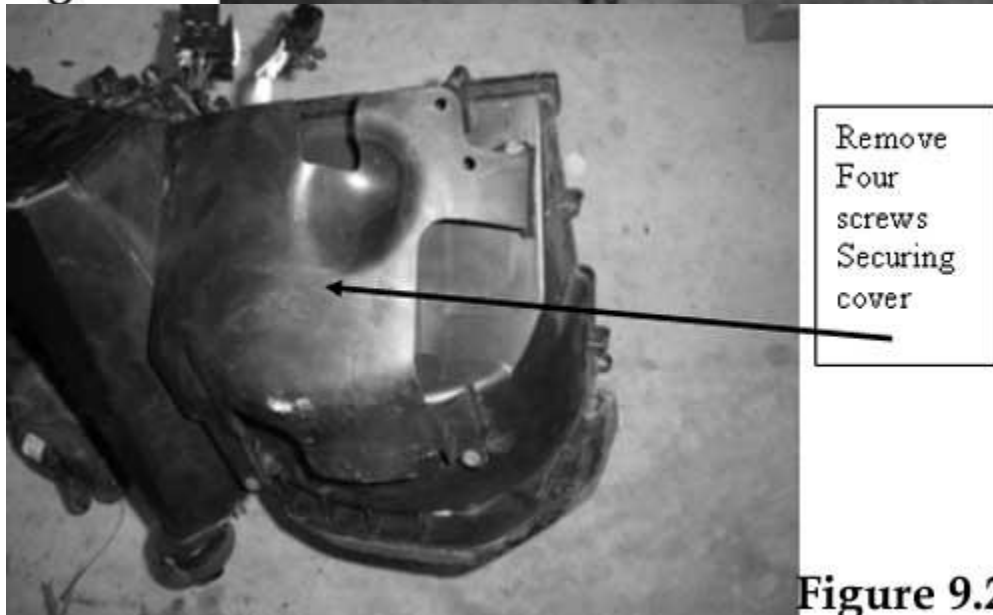


Figure 9.2

Step Ten Installing the Fresh Air door

1. Cut the opening in the case for the door. This can be done with a sharp razor knife by making four passes, or by a cut of wheel or plastic saw.
2. Install the door into the opening
3. Install the vacuum actuator
4. Hook the actuator to the door
5. Mount the actuator on the mounting clamp

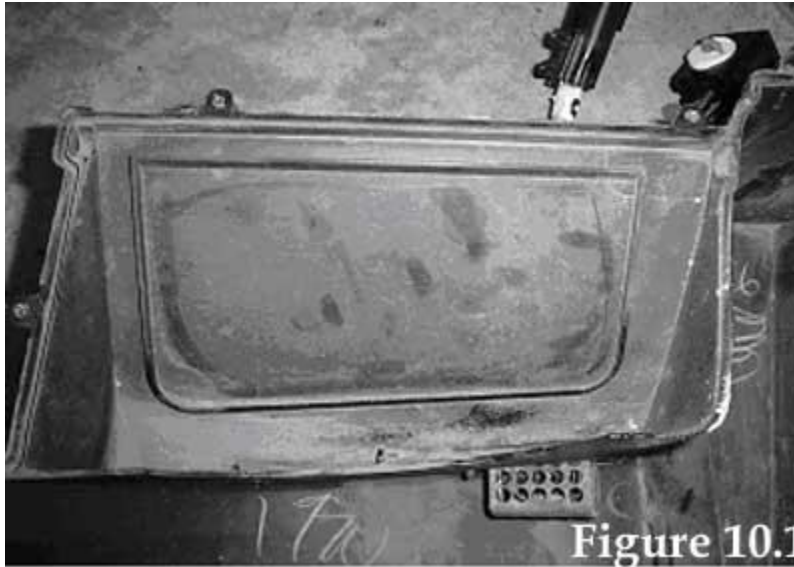




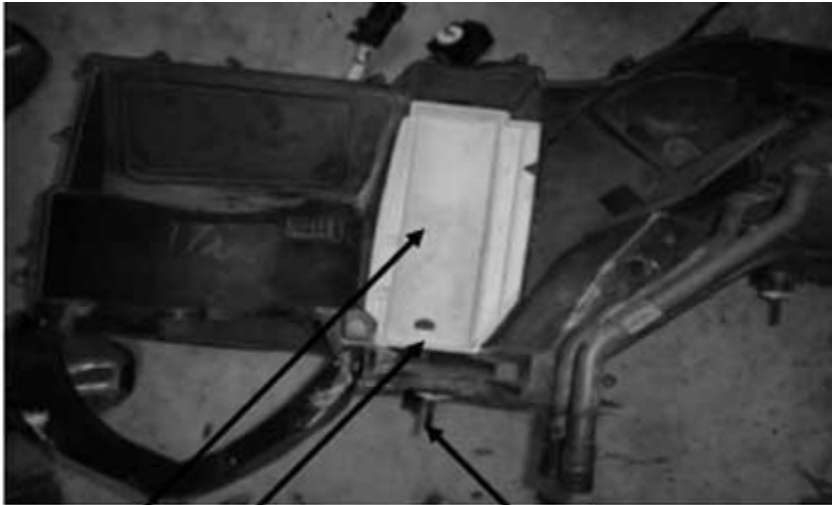
Figure 10.3



Figure 10.4

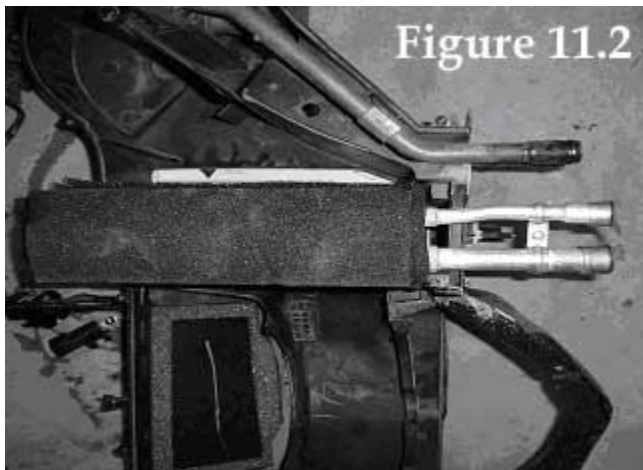
Step Eleven Installing Evaporator

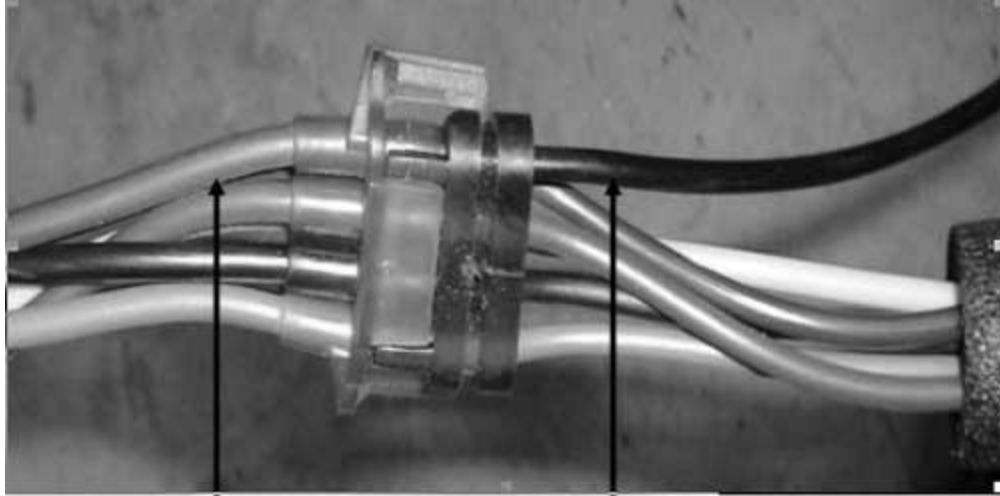
1. Place the drain reservoir into the case; the hole goes toward the drain.
2. Place the evaporator into the case. Make sure the foam is attached.
3. Set the top half of the plenum back on
4. Insert and tighten the fifteen screws, and two clips
5. Install the blower motor, make sure the foam is in place
6. Install the black vacuum line from plug to actuator, use the vacuum line included to make the connection
7. Install the air inlet cover (four screws, see figure 9.2)
8. **MAKE SURE THE HEATER DOOR AND BLEND DOOR MOVE FREELY** before reinstalling the evaporator box into the Jeep.



Drain reservoir Hole for drain Drian

Figure 11.1





Green tube	Supplied vacuum tube
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Figure 11.3

Step Twelve Attaching Rubber Grommet

1. There is a rubber grommet that sits on the evaporator and heater hose lines. You will need to cut two holes in the grommet and place over the lines.
2. Remove caps over evaporator outlets
3. Push the rubber up against the evaporator tubes, remove and mark with a pen or marker where the lines sit.
4. Take a razor or a round pipe and cut out the two holes. If you use a pipe, place the grommet over a piece of wood and hit the pipe with a hammer. The holes do not need to be larger than 4".
5. Remove the support brace over the evaporator tubes, with the brace removed you can slide the grommet over the four tubes, place the caps back on the evaporator
6. Pull the vacuum tube through the grommet
7. Now you can reinstall the evaporator case into the vehicle. Follow the directions if needed.

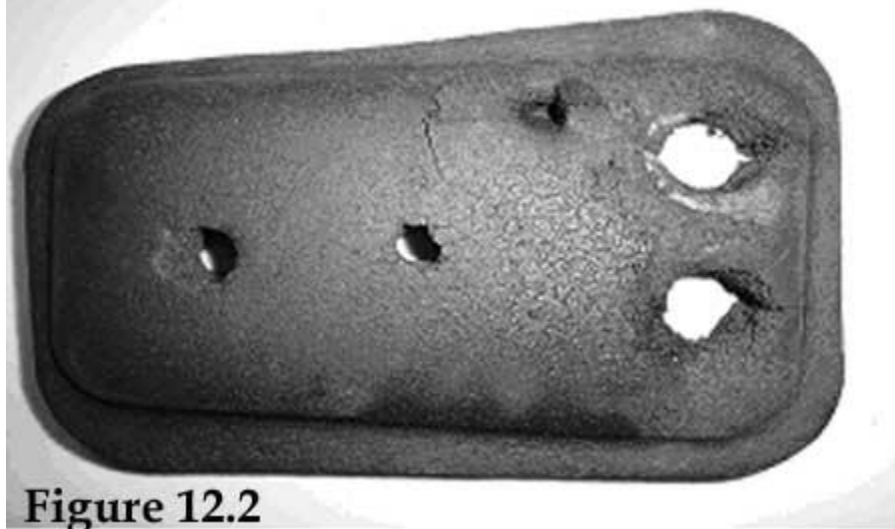
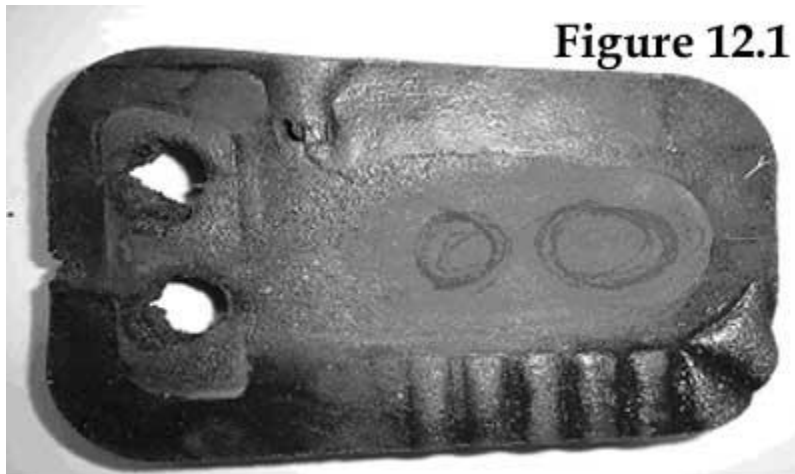




Figure 12.3

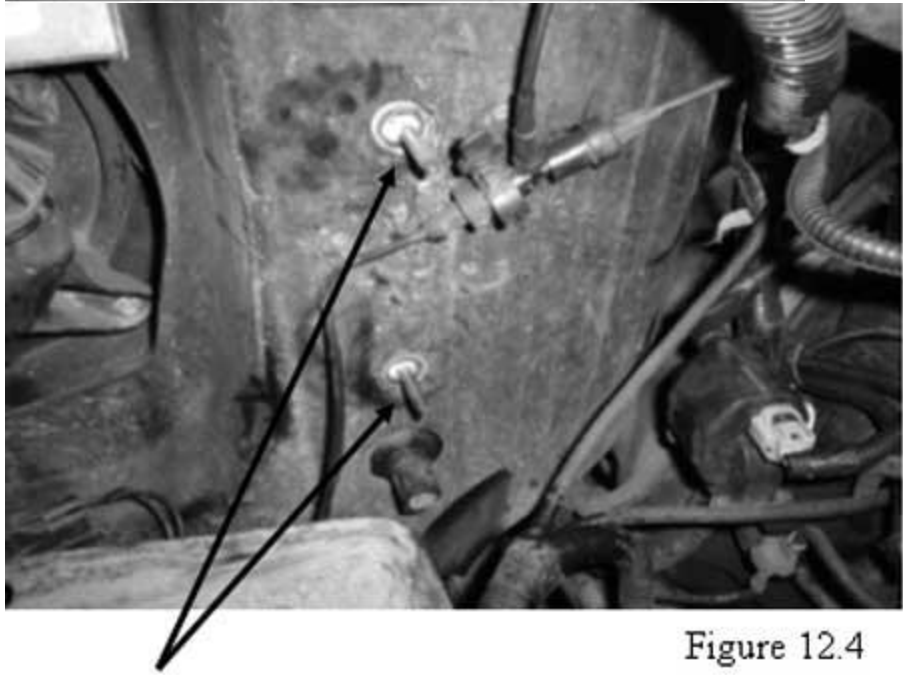


Figure 12.4

8. When reattaching the outside nuts to the studs leave two off, the two above the drain line.

Step Thirteen Under Hood Hook up

1. Now that the Inside is back together we can hook up the rest of the parts under the hood. Starts by making sure all the nuts are attached on the outside of the firewall, except for the two above the drain
2. Hook up the Vacuum line, and heater hoses
3. Attach the flat bracket to the two studs that do not have the nuts on them. Be sure the vacuum line does not get stuck between the bracket and firewall
4. Install the round strap for the accumulator drier. Do not tighten
5. Install the accumulator to the strap, and push the fittings from the accumulator to the fitting on the evaporator (large to large fitting) Be sure to PUSH HARD, they need to click
6. Tighten the screw on the strap of accumulator to secure it
7. Plug the accumulator switch to the switch located on the firewall wiring harness

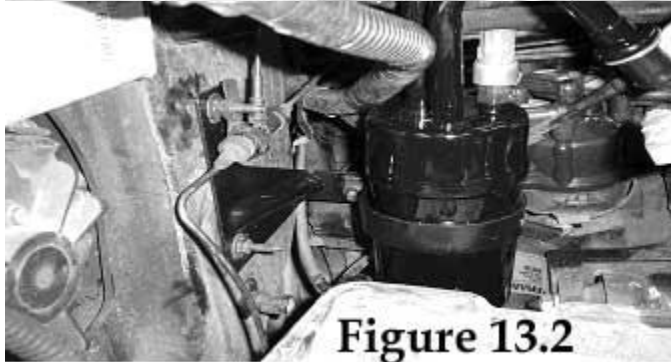
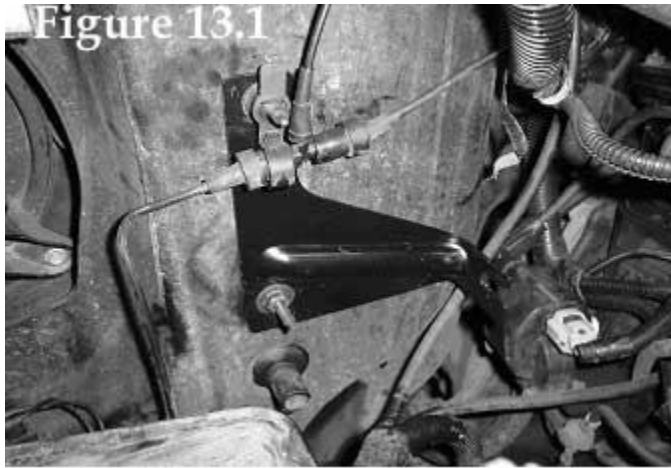




Figure 13.3

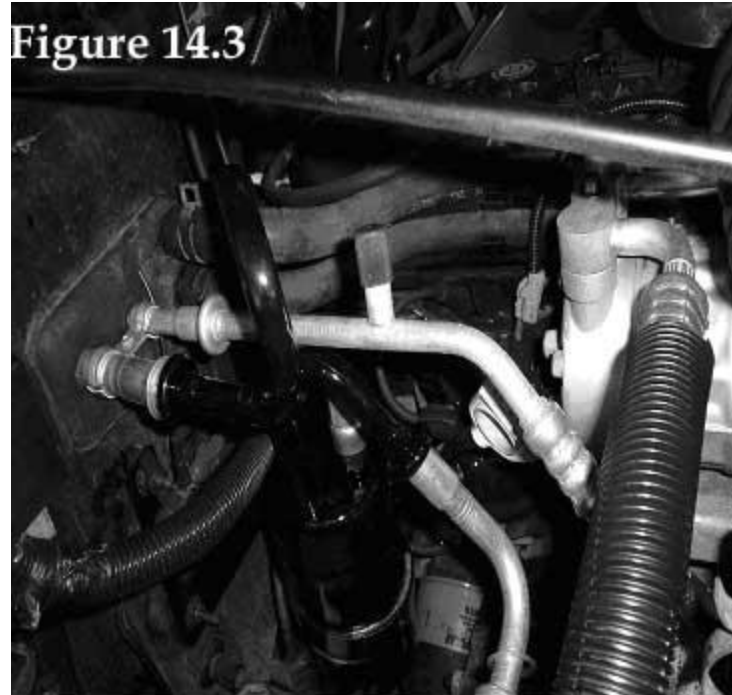


Figure 13.4

Step Fourteen Attaching the Hoses

1. Place the two flat gasket washers on the hose manifold that connects to the compressor
2. Place the hose manifold on the compressor and tighten
3. Make sure O-rings are put on all fittings connections, if the fittings are hard to push on , dab a little pag oil on the o-rings.
4. Attach smaller line from the compressor to the condenser, PUSH HARD, but be sure to support the condenser tube, DON'T BEND IT
5. Connect the plug to the switch located on the Manifold. The plug should be close to the compressor plug near the intake /exhaust manifolds
6. Connect the Liquid line to the evaporator and Condenser. BE SURE THEY CLICK, BE SURE NOT TO BEND THE TUBE ON THE CONDENSER
7. Tie strap the liquid line to the inner fender well, not tight just to keep it from vibrating or rubbing
8. Be sure the Accumulator tube is not hitting the hose manifold tube
9. Reinstall the Air Cleaner Tube





Step Fifteen Finishing Up

1. Put antifreeze back into the radiator. You may have to start the vehicle to get all the fluid back into the system.
2. Install the a/c relay into the fuse box, located under the hood on passenger side) Figure 15.1
3. Insert an ATM MINI 20 amp fuse into panel. If it is already in its place disregard, the fuse location is F-19.
4. Remove the two square knobs and round knob with a small flathead screwdriver.
5. Remove the old sticker from the control head. Use a Razor blade to peel off (Get under) one corner. Figure 15.2
6. Affix the new faceplate to the control head, push the three knobs back onto the head
7. Reinstall the control head into the dash, be sure to hook up the cable, both plugs and the vacuum harness.
8. Install the battery and hook up the cables
9. Evacuate the a/c system for at least 45 minutes
10. Hook up the Compressor plug
11. Charge the system with 1.50 lbs of R134a Refrigerant. **DO NOT ADD OIL, DYE, SEALERS, OR ANY ALTERNATIVE REFRIGERANTS.**
12. Apply the sticker under the hood, and then write in the exact amount of freon used.



Figure 15.1

Insert Fuse

Insert relay

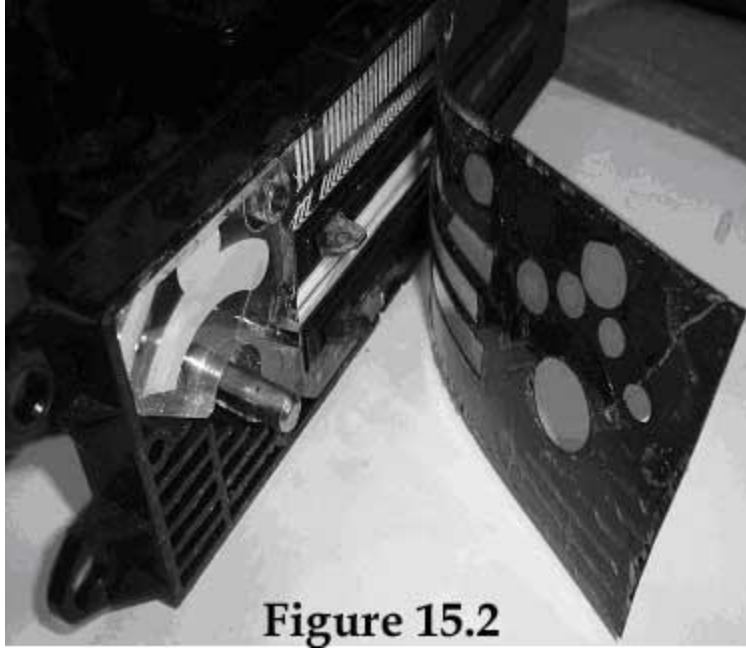


Figure 15.2

