

# Air Conditioner R-2300

## INSTALLATION INSTRUCTIONS

1. Please read instructions all the way through making sure you have all the parts and tools needed for installation.
2. It has been established that the R-12 refrigerant does deplete the earth's protective ozone layer. Use care so as to not release this material into the atmosphere.
3. While working on or around a vehicle, disconnect the battery to prevent accidental start-up or electrical shorts.
4. A/C systems operate under high pressure. at 77°F the R-134a container will be pressurized to approximately 80 psi. Use caution when working with these materials. Eye protection is required.

The following additional hardware is required to complete the installation:

Compressor, condenser, Receiver-Drier, Hose Kit, Compressor Mount Kit, Condenser Mount Kit.

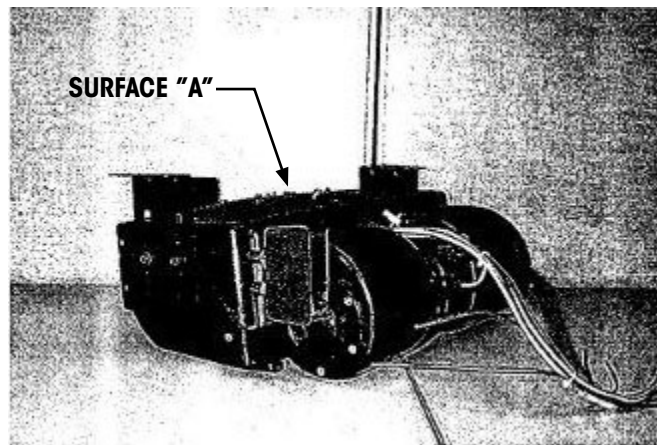


Figure 1

## A. Evaporator Unit Installation

1. Disconnect the batteries.
2. Select suitable location on either the floor or the ceiling of the vehicle cab for evaporator unit placement. While making this decision, keep in mind that this unit must be oriented so that Surface "A" is facing upward as shown in Figure 1. Plumbing will eventually be attached to the expansion valve at the rear of the evaporator unit. A drain hose will also be attached and will have to be routed out of the vehicle.
3. Attach mounting brackets to evaporator unit using 1/4 inch hex head screws. For ceiling mounting, orient the mounting brackets so that the flanges extend above the A/C unit (Figure 1). For floor mounting, the mounting brackets should extend below the A/C unit.  
**Note:** In areas of high humidity, or in applications in which the vehicle may be running on a grade greater than 10 degrees for extended periods of time, it may become necessary to tilt the air conditioner back on the brackets in order to improve condensate drainage and prevent leakage.
4. Mark and drill holes in floor/ceiling of vehicle. Mount A/C unit.
5. Drill holes in floor, ceiling or wall for plumbing and drain hose.
6. Assemble the drain hose as shown in Figure 2. Attach the drain hose to the drain ports located at the rear of unit. Route hose out of vehicle cab. (Note: Hose from evaporator unit to outside of vehicle not included in kit.)

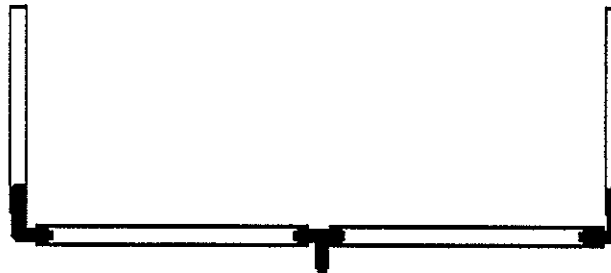


Figure 2

7. Mount additional required hardware to complete A/C system (figure 3).

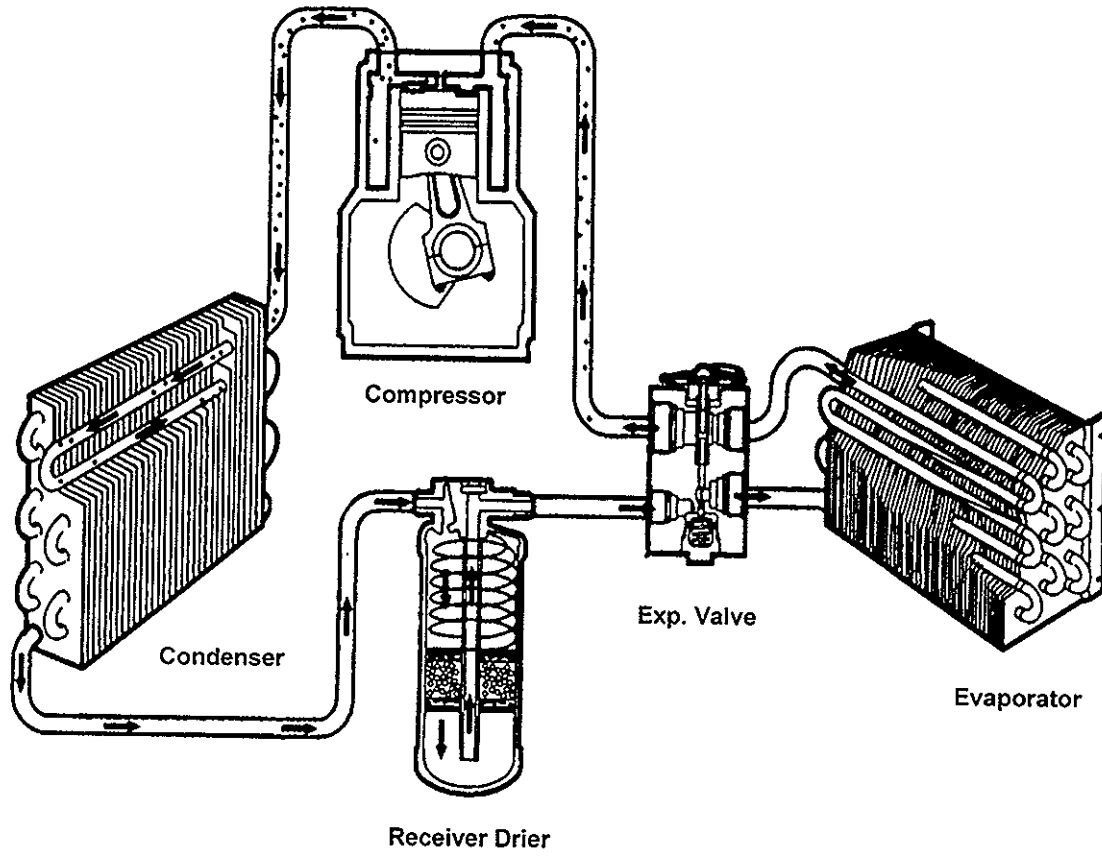
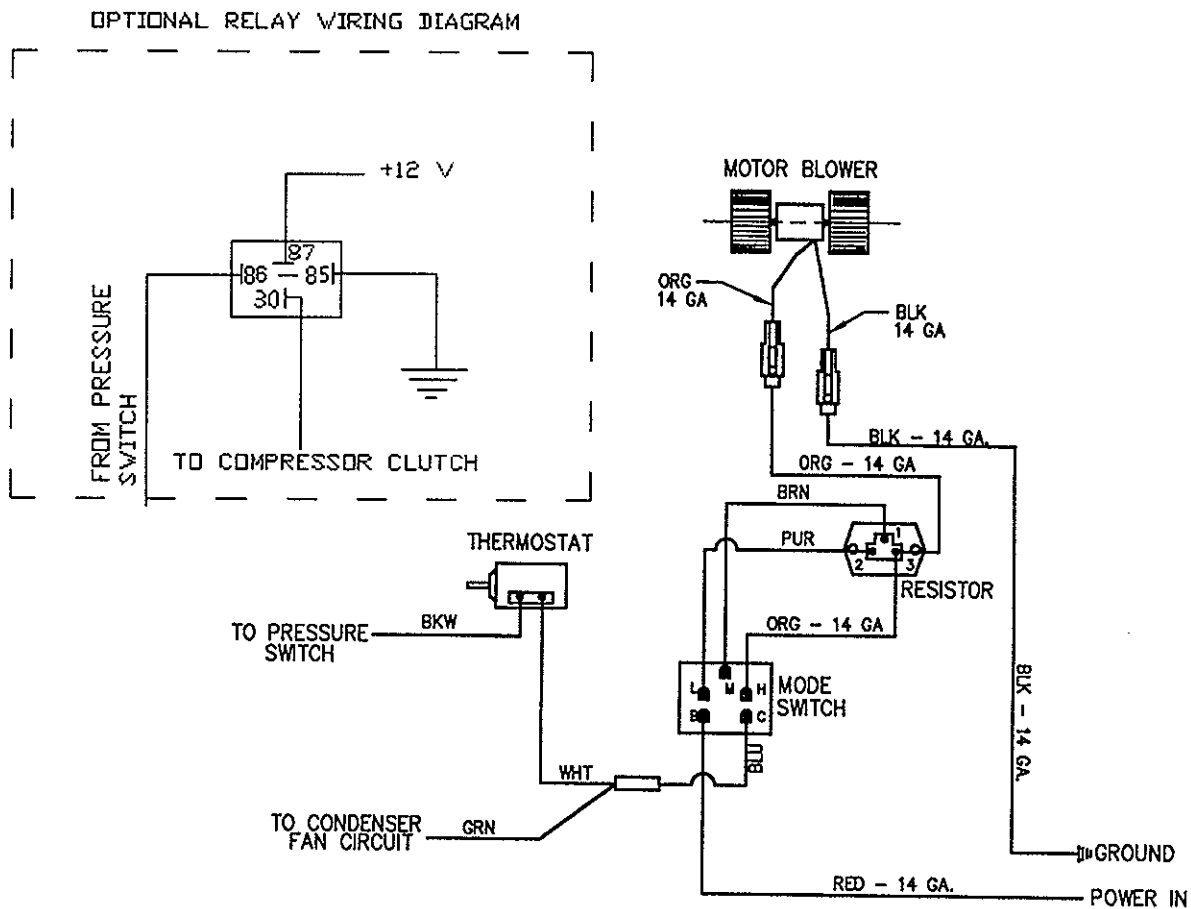


Figure 3

## B. Wiring Instructions

1. Drill a 1/2" diameter hole in a suitable location (preferably near the control panel) for mounting the A/C switch.  
**Note:** Make sure there is enough room for the A/C switch label before drilling hole.
2. Mount A/C switch and attach the label provided.
3. Route orange, blue, brown and purple wires to mode switch as shown (Figure 4).
4. Route either end of red wire to mode switch. Route the other end to positive power source.
5. Route black wire to ground.



**Figure 4**

6. Route black/white wire to pressure switch.

**Note:** The use of a relay is recommended to protect thermostat and pressure switch.

7. Route green wire to condenser fan circuit.

**Note:** It is good practice to route wire along hose path. After routing is complete, wiring can be tie wrapped to hoses.

### C. Final Assembly and Testing

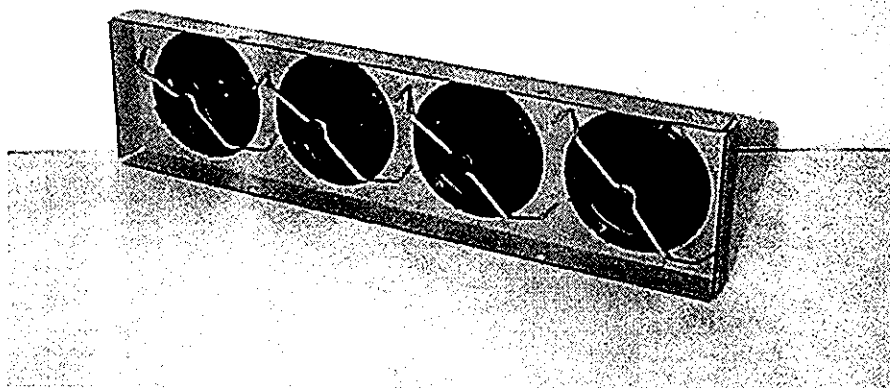
1. Reconnect battery. Evacuate the system and check for leaks.

2. Charge A/C system with R-134a refrigerant.

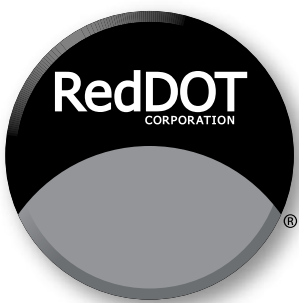
3. Test system electrical functions.

4. Attach additional plenum attachments and/or duct work as needed.

**Note:** Assemble optional plenum cover (RD-2-3279) as shown (Figure 5). Attach plenum to unit with the four #7 screws provided in the installation kit.



**Figure 5**



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