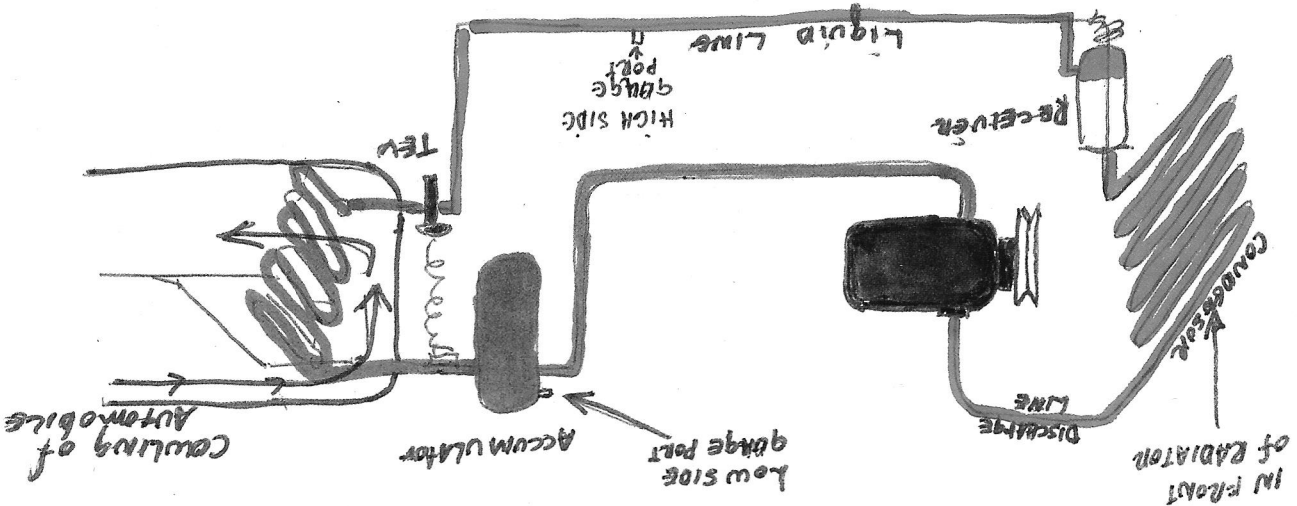


(Fig. 10-10)



At this point, you have your gauges attached to the pump, the auto engine is dead, and everything is quiet.

most open type compressors will also. At this point, you have your gauges attached to the pump, the auto engine is dead, and everything is quiet. At this point, you have your gauges attached to the pump, the auto engine is dead, and everything is quiet. At this point, you have your gauges attached to the pump, the auto engine is dead, and everything is quiet.

Attach your low pressure gauge to the low-side port and attach your high-side gauge to the high-side port. Now with the gauge manifold valve handles closed, you will read pressure on the high and low side of the system. Now take a look at your gauges. You may have pressure on both gauges, even though it is a weak pressure; or you may have nothing; that is, the gauges may show zero. Take a look at Figure 10-11 with the gauges attached to the pump. Older auto air conditioning systems will have service valves on the compressor and also gauges attached to the pump. Older auto air conditioning systems will have service valves on the compressor and also gauges attached to the pump. Older auto air conditioning systems will have service valves on the compressor and also gauges attached to the pump.

Now purge both gauge hoses. Then you are ready to make a test for bad valves; or at least, you want to see if the pump will pump. Start the engine and switch on the air conditioner. If there is no gas in the unit, the low-side gauge will pull down very rapidly into a vacuum; and even if there is a little gas in the unit, it may still pump into a vacuum. If so, there is no longer any need to worry about the pump pumping. It will pump even though there is nothing to pump from the evaporator but a vacuum. Here you can stop the auto engine and get ready to put a test charge into the system. Blow off whatever gas is left in the system and hook your vacuum pump to the charging line on your manifold. Start up the vacuum pump with an extension cord, open the low side valve on your manifold, and let the vacuum pump pull on the whole system until you are satisfied that the system is completely evacuated and you are ready to proceed with charging. You might at this point take notice that you do not want to pull a vacuum on your high-side gauge; so you can again backseat the high-side valve and isolate this gauge. See this hookup of your gauges and vacuum pump in Figure 10-12. Step by step see these drawings of the change-over and the method of vacuum breaking in Figure 10-13. With a deep vacuum pulled on the system, you can shut your low-side valve on your gauge manifold and see if this vacuum holds on the whole system. If it comes up very rapidly, you can say right here there must be a devil of a big leak in the system somewhere; and you should start looking for it. One way to find it would be