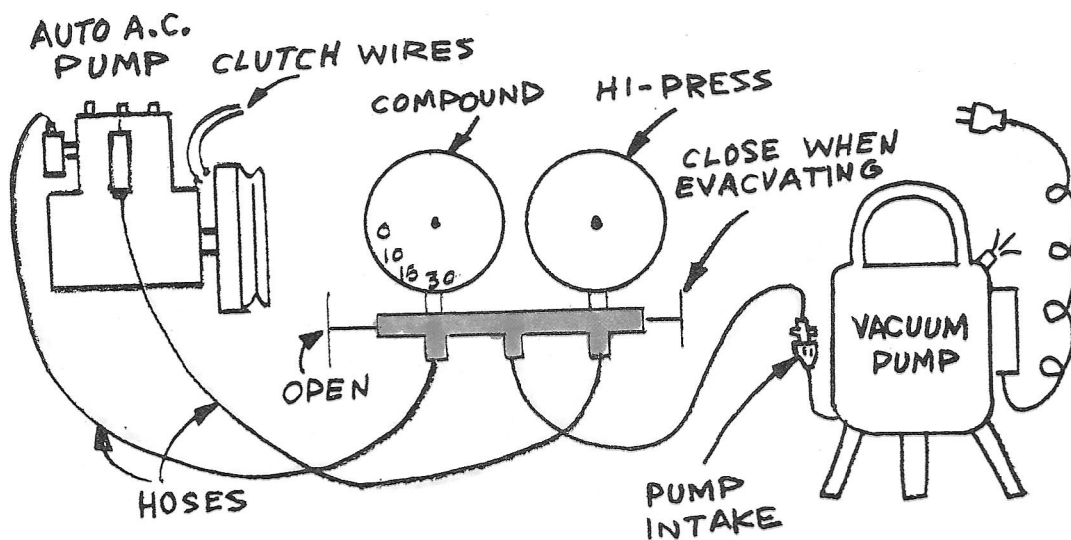


(Fig. 10-11)

to let in a little gas from your Freon bottle until you have some pressure, and then make a leak check all over the system with soapy water or a halide torch. You should forget about any further evacuation because you will have to evacuate all over again when the leak is located and repaired. But suppose the vacuum held nicely and you are satisfied that, if there is a leak, it is a very small one, or it may be that the seal in the compressor has leaked the gas out of the system while the unit was out of operation for a long time. Suppose that the compressor seal leaked all of the gas out while the auto air conditioner was not being used, and it may now hold if the compressor is used regularly.

With all the guess work finished, you are ready to charge up this unit. You would break the vacuum in the system by moving the charging hose over to a Freon drum, purging your hose, and letting gas into the system out of your drum or can.

With pressure from your drum now in the system, you are ready to charge the unit. Remember that you only let Freon vapor into the system from the top of your drum. There is no liquid in the system as yet, only vapor pressure. You will now unbackseat the high-side valve, and you will find that you will have the same pressure on both the low and the high side since everything is equalized. This pressure will be the same as the pressure



(Fig. 10-12)