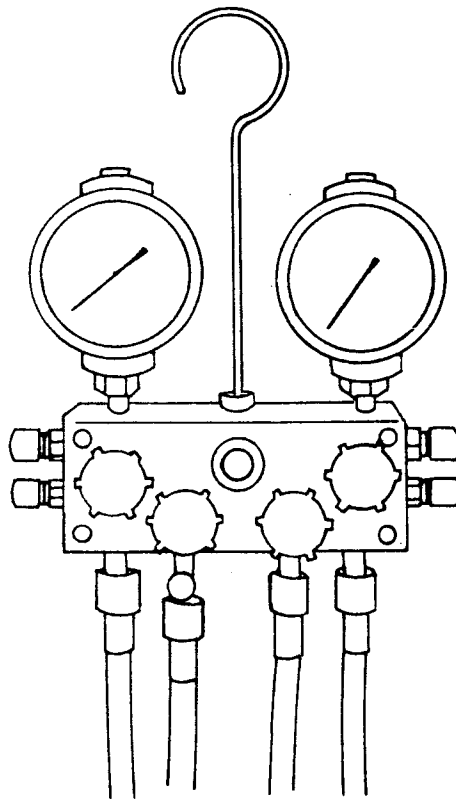


9650  
Heavy Duty  
4-Way  
MANIFOLD  
GAUGE SET  
with Sight Glass



METRIC

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INSTRUCTIONS

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## EVACUATION AND FILL

1. Close all valves by turning them clockwise.
2. Connect blue hose to bottom left connection under blue knob. Connect yellow hose under yellow knob. Connect green hose under black knob. Connect red hose under red knob.
3. Connect blue hose to low side valve (usually marked on compressor as low). Connect red hose to high side valve (usually marked on compressor as high).
4. Open blue valve & yellow valve to purge the system. When empty close all valves.
5. Attach green hose to vacuum pump and start vacuum pump.
6. Open blue valve and slowly open black until blue gauge registers 100 mm. of vacuum.
7. When system is evacuated close black valve and turn off vacuum pump. Disconnect green hose.
8. Watch blue gauge for 30 minutes to determine if there is a leak in the system. If gauge rises toward 0 then there are leaks.
9. If system passes above test attach yellow hose to Freon supply. Set can on 9000 Charging Scale.
10. Open Freon supply valve and purge hose.  
\*Start car engine and add Freon by slightly opening yellow valve. Watch gauges. Do not exceed manufacturers spec!  
\*(Turn compressor on.)
11. Close Freon supply valve. Disconnect blue hose from valve then disconnect red hose from valve.

**NOTE: To zero gauges, adjust screw on top of gauge.**

The above methods may be applied to most residential air conditioners and heat pump systems, plus commercial applications including ice machines.

## PARTIAL FILL

1. Close all valves by turning them clockwise.
2. Connect blue hose under blue knob. Connect yellow hose under yellow knob. Connect red hose under red knob.
3. Connect blue hose to low side valve (usually marked on compressor as low). Connect red hose to high side valve (usually marked on compressor as high).
4. Connect yellow hose to Freon supply.
5. Open Freon supply valve and purge yellow hose.
6. Purge blue and red hoses to remove air. Purging can also be done with Schrader Valve on side of gauges.
7. Open blue valve, start car engine and add Freon by slightly opening yellow valve. Watch gauges. Do not exceed manufacturers specs!. Use 9000 Charging Scale.
8. Close Freon supply valve, disconnect blue hose and red hose from compressor.

**NOTE: The optical sightglass is not to be used to determine if the system is full. It is to see if the manifold is purged of air and if liquid freon is flowing from can to system.**

**WARNING:** This instrument should be used only by competent personnel who are familiar with, and follow good work and safety practices of the air conditioning and refrigeration trade. Always use protective eye-wear when charging refrigeration systems.