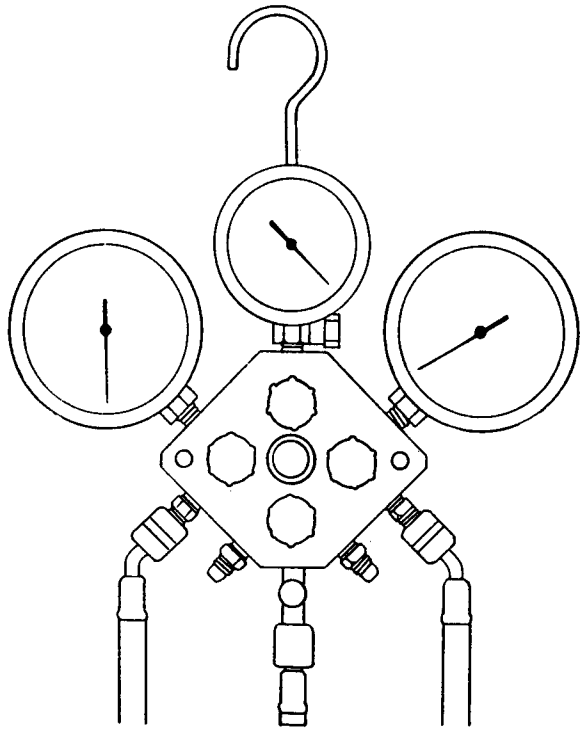
Parts and Accessories

Description	Part Number
Valve piston w/seal and O-ring	9601
Valve stem	9613
Valve stem O-ring	9612
Valve knob (indicate color)	9608
Gauge filler cap	9651
High Side gauge	9662
Low Side gauge	9652
Vacuum gauge	9703
72" hose (indicate color)	9572
Quick-seal cap	9511
Hanger hook and nut	9513

Repair and Replacement

This instrument is designed and produced to provide unlimited service. Should the unit be inoperative after the user has performed the recommended maintenance, a no-charge repair or replacement will be made to the original purchaser. This applies to all repairable instruments which have not been tampered with or damaged. This claim must be made within one year of the date of purchase.

TIF9700
HEAVY DUTY 3-WAY 4-VALVE MANIFOLD GAUGE SET



INSTRUCTIONS

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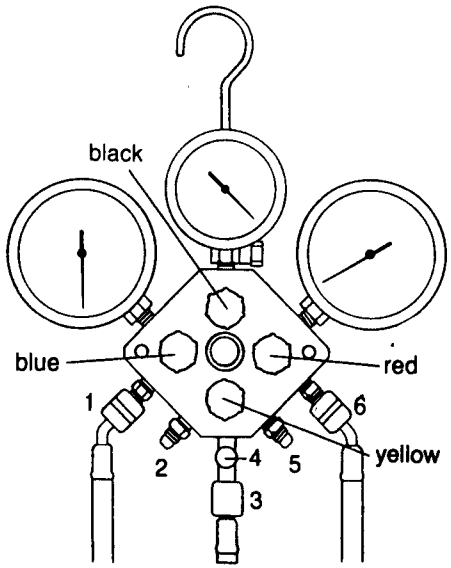
INTRODUCTION

The 3-way gauge set is equipped with two 60mm oil-filled gauges for low and high side pressure measurements, and a 60mm oil-filled vacuum gauge. The 72 inch hoses have a 750psi working pressure and a 3000psi burst rating.

The gauges are oil-filled to dampen needle vibration, and all three have zero adjust screws on the top of the the gauge casing.

The four control valves give access into the manifold block from:

Blue valve -- port #1
Black valve -- port #3/#4
Yellow valve -- port #3/#4
Red valve -- port #6



EVACUATION AND FILL PROCEDURE

1. Close all 4 valves by turning clockwise. NOTE: It is not necessary to use a great deal of force to ensure full closure.
2. Connect blue hose to port #1 and low side service valve. Connect red hose to port #6 and high side service valve. Connect yellow hose to port #3.
3. Open red and blue valves, and then open yellow valve to exhaust system.
4. Connect yellow hose to vacuum pump. Open black valve and start the vacuum pump.
5. When system is evacuated, close yellow valve, stop vacuum pump, leak check and remove yellow hose from the pump.
6. After leak check period close all valves.
7. Connect yellow refrigerant charging line to refrigerant supply tank. Open supply tank valve. Use Schraeder valve on port #4 to purge your refrigerant supply line.
8. Open yellow valve.
9. Crack open blue valve to start adding refrigerant to system. Watch gauges. Do not exceed manufacturers specifications!
10. Close refrigerant supply valve. Close all manifold valves. Disconnect all hoses.

NOTE: "Ports" 2 and 5 are "blind" and are used only to mount the free ends of hoses to protect them from dirt and moisture.

The optical sight glass will not indicate when a system is full. It is used only to see if liquid or gas is flowing from the refrigerant supply into the system.

NOTE: The vacuum gauge must be set to 30" of mercury prior to each evacuation.

PARTIAL FILL

1. Close all 4 valves by turning clockwise. NOTE: It is not necessary to use a great deal of force to ensure full closure.
2. Connect blue hose to port #1 and low side service valve. Connect red hose to port #6 and high side service valve. Connect yellow hose to port #3 and charging cylinder.
3. Open refrigerant cylinder valve and depress Schraeder valve on port #4 to purge yellow hose.
4. Open yellow valve.
5. Start system and slightly open blue valve to add refrigerant. Watch gauges. Do not exceed manufacturers specifications!
6. Close refrigerant valve. Close manifold valves. Disconnect all hoses.

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.