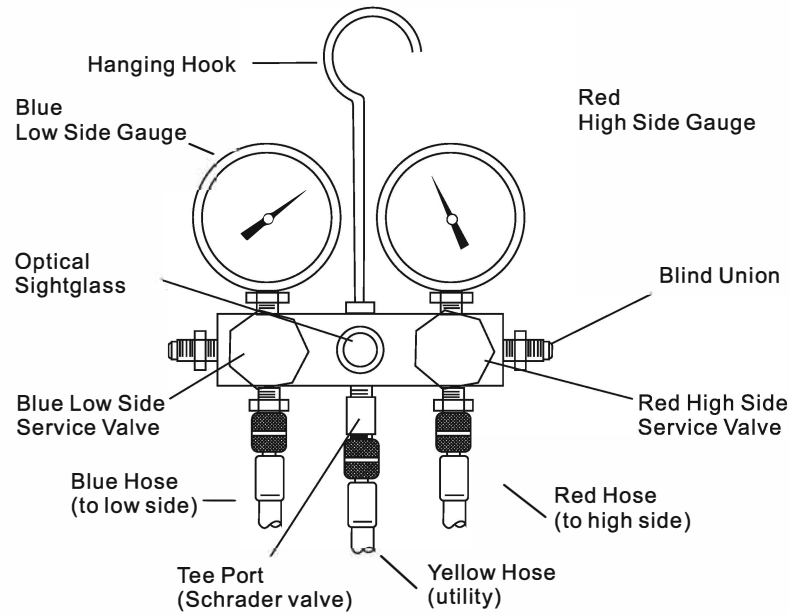




**3.5CFM REFRIGERANT PUMP MANIFOLD GAUGE SET**

ITEM # 71093 (MANIFOLD GAUGE)



**OWNER'S MANUAL AND SAFETY INSTRUCTIONS**

**SAVE THIS MANUAL. KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATION, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT'S SERIAL NUMBER ON THE BACK OF THE MANUAL, OR THE MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO SERIAL NUMBER**

**Service Parts**

**Warning:**

1. Not exceed 80% of claimed range of manifolds when using.
2. Un-proper operation may lead leakage or personal injury.
3. Please read manual & operation instruction of manifold or equipment.

The refrigeration gauge has been calibrated at the factory however, due to handling and shipping it may be lightly out of adjustment. To adjust, unscrew and firmly hold center screw fixed with screwdriver and with thumb and forefinger gripping pointer near center, gently turn pointer to zero. Repeat carefully if not on zero.

**IMPORTANT:**

1. Gauges are available for most refrigerants in °F.
2. Please read before putting new equipment into operation. The Compound Rubber forms seals around the valve stem. Tighten the valve nut a quarter to half turn to take up the set before commencing operation and retighten as necessary to keep the seal tight.

**NOTE:** Check equipment manufacturer's catalogue or instruction sheets for specific recommendations on refrigerant charge, oil change and service procedures for any particular piece of equipment.

**FOR QUESTIONS, PLEASE CALL CUSTOMER SERVICE: 909.628.0880**

**WARNING**

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in injury and/or property damage. Save all warnings and instructions for future reference.

The warning and safety instructions in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when operating or cleaning tools and equipment. Always contact your dealer, distributor, service agent or manufacturer about problems or conditions you do not understand before operating the product.



**WARNING!** To prevent personal injury.



Wear goggles when working with refrigerants. Contact with refrigerants may cause injury.



Wear gloves when working with refrigerants. Contact with refrigerants may cause injury.



Incorrect use or connections may cause leak or explosion. Read and follow the instructions carefully and take precautions to avoid leak or explosion. Confirm that all associated devices are grounded correctly before use.



**CALIFORNIA PROPOSITION 65** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



This manifold is designed for use by technically trained refrigeration and air conditioning service technicians. Due to the unusually HIGH PRESSURE AND HAZARDOUS GASES IN ALL SYSTEMS, misapplication could result in injury or death. Manufacturer warns against the sale to, or use of this product by any other than professionally trained personnel.

### Questions, issues or missing parts?

Before returning to your retailer, our customer service team is here to help.



Call Us: 909.628.0880

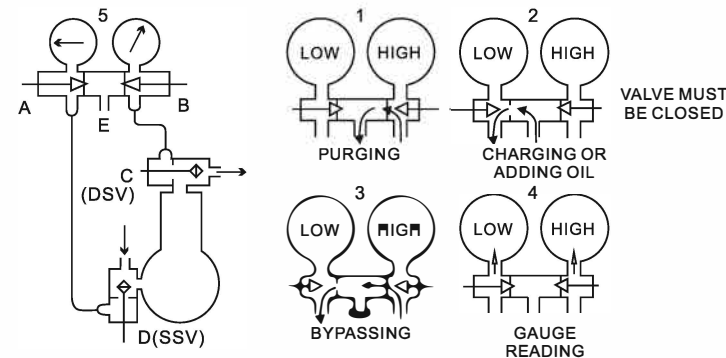
Email Us: [customer@xtremepowerusa.com](mailto:customer@xtremepowerusa.com)

Hours of Operation: 9am - 3pm PST Monday - Friday

MADE IN CHINA

## MANIFOLD OPERATING INSTRUCTIONS

Schematic of gauge manifold installation on external drive compressor with service valves. A - Manifold Suction Valve. B - Manifold Discharge Valve. C - Compressor Discharge Service Valve (DSV). D - Compressor Suction Service Valve (SSV). E - Service Opening. 1 - Purging. 2 - Charging or Adding Oil. 3 - Bypassing. 4 - Gauge Reading. 5 - Both manifold valves are turned all the way in. System is pumping vapor and both low and high-side pressure are being read.



Lines from the manifold are attached to the SSV at D and should be left one to two turns loose while the line to the DSV should be tightened. Then open both of the manifold valves at A and B 1/4 turn to 1/2 turn and cap the middle opening, E.

Now turn the (DSV) C stem in 1/8 to 1/4 turn for just a moment (crack the valve). A surge of high-pressure refrigerant will then rush through the lines and the manifold and purge to the atmosphere at the loose connection at D the SSV. This connection may then be tightened. Purging is necessary to remove air and moisture from the manifold and lines. NOTE: Purging must be held to a minimum to avoid damage to the atmosphere.

Carefully test for leaks while the manifold and its lines are under high pressure. Correct any leak immediately.

Various service and testing operations may be performed after the testing manifold has been installed:

- Observe operating pressures by:
  - Closing valve A by turning all the way in.
  - Closing valve B by turning all the way in.
  - Cracking open back seat of valve C.
  - Cracking open back seat of valve D.
- Charge refrigerant into system by:
  - Connecting refrigerant cylinder to E (vapor only).
  - Opening valve A.
  - Closing valve B.
  - Closing front seat of valve D slowly.
- Purge condenser by:
  - Closing valve A.
  - Closing valve B.
  - Cracking open valve C.
- Charge liquid refrigerant into high side by:
  - Connecting refrigerant cylinder to E.
  - Closing valve A.
  - Opening valve B.
  - Mid-positioning valve C.
- Build up pressure in low side for control setting or to test for leaks by:
  - Sealing E with seal cap.
  - Opening valve A.
  - Close valve C.

### PRESSURE AND COMPOUND GAUGE RECALIBRATION INSTRUCTIONS:

The refrigeration gauge has been calibrated at the factory however, due to handling and shipping it may be lightly out of adjustment. To adjust, unscrew lens, and firmly hold center screw fixed with screwdriver and with thumb and forefinger gripping pointer near center gently turn pointer to zero. Repeat carefully if not on zero. It's unavailable for wet gauge, wet gauge do not require gauge zeroing.