

## **K-4220 – Manifold Assembly**

This product can not be modified without the written approval of Tronair, Inc. Any modifications done without written approval voids all warranties and releases Tronair, Inc., its suppliers, distributors, employees, or financial institutions from any liability from consequences that may occur. Only Tronair OEM replacement parts shall be used.

### **1.0 DESCRIPTION**

The Tronair Air Manifold is a light weight portable unit containing one shop air inlet port and four valved exit ports. The Air Manifold comes complete with hoses and valves. The customer is responsible for the appropriate shop air inlet fitting and its installation.

### **2.0 USAGE**

The purpose of the Air Manifold is to be a shop air distribution center. It provides, from a single source, four controllable air lines for the purpose of raising aircraft jacks with air/hydraulic pumps. It can also be used to operate pneumatic tools, pneumatic equipment, etc.



#### **CAUTION**

**Maximum shop air pressure 140 psi (9.7 bar).**

### **3.0 SPECIFICATIONS**

- Weight: 10 lbs (4.5 kg)
- 140 psi (9.7 bar) maximum air pressure
- Four shut-off valves with quick disconnects
- Four 25 ft (7.6 m) long hoses with quick disconnects

### **4.0 CLAIMS**

#### **4.1 SHIPPING DAMAGE**

Immediately upon delivery of this unit, a visual inspection should be made, making note on the shipping papers of any and all damage found.

### **5.0 ASSEMBLY AND OPERATING INSTRUCTIONS**

#### **5.1 PREPARATION FOR USE**

1. Install appropriate shop air inlet fitting (supplied by customer) in plugged hole in manifold. Threads are ¼ - 18 NPT.
2. Attach quick disconnect female thread plugs (supplied on manifold hoses) to air pump on each jack.

#### **5.2 OPERATION**

Refer to jack operating manual and follow all jacking instructions.

1. Connect quick disconnect manifold hoses between air manifold and jacks.
2. Position fully retracted jacks beneath jack pads and raise mechanical extensions as close to jack pads as possible.
3. Close pump release valve and open jack air pump inlet air needle valve on each jack.
4. Close all needle valves on manifold.
5. Connect air supply to manifold and adjust to 100 psi (6.9 bar).
6. Slowly open manifold needle valves to supply air to jack air pumps. Raise all jacks as uniformly as possible.
7. When aircraft reaches desired height, close manifold needle valves and lower jack ram locknuts. Close air pump needle valves on each jack and disconnect manifold hoses from jack air pumps.
8. Refer to jacking instructions to lower aircraft.

## 6.0 GUARANTEES/LIMITATION OF LIABILITY

Tronair products are warranted to be free of manufacturing or material defects for a period of one year after shipment to the original customer. This is solely limited to the repair or replacement of defective components. This warranty does not cover the following items:

- a) Parts required for normal maintenance
- b) Parts covered by a component manufacturers warranty
- c) Replacement parts have a 90-day warranty from date of shipment

If you have a problem that may require service, contact Tronair immediately. Do not attempt to repair or disassemble a product without first contacting Tronair, any action may affect warranty coverage. When you contact Tronair be prepared to provide the following information:

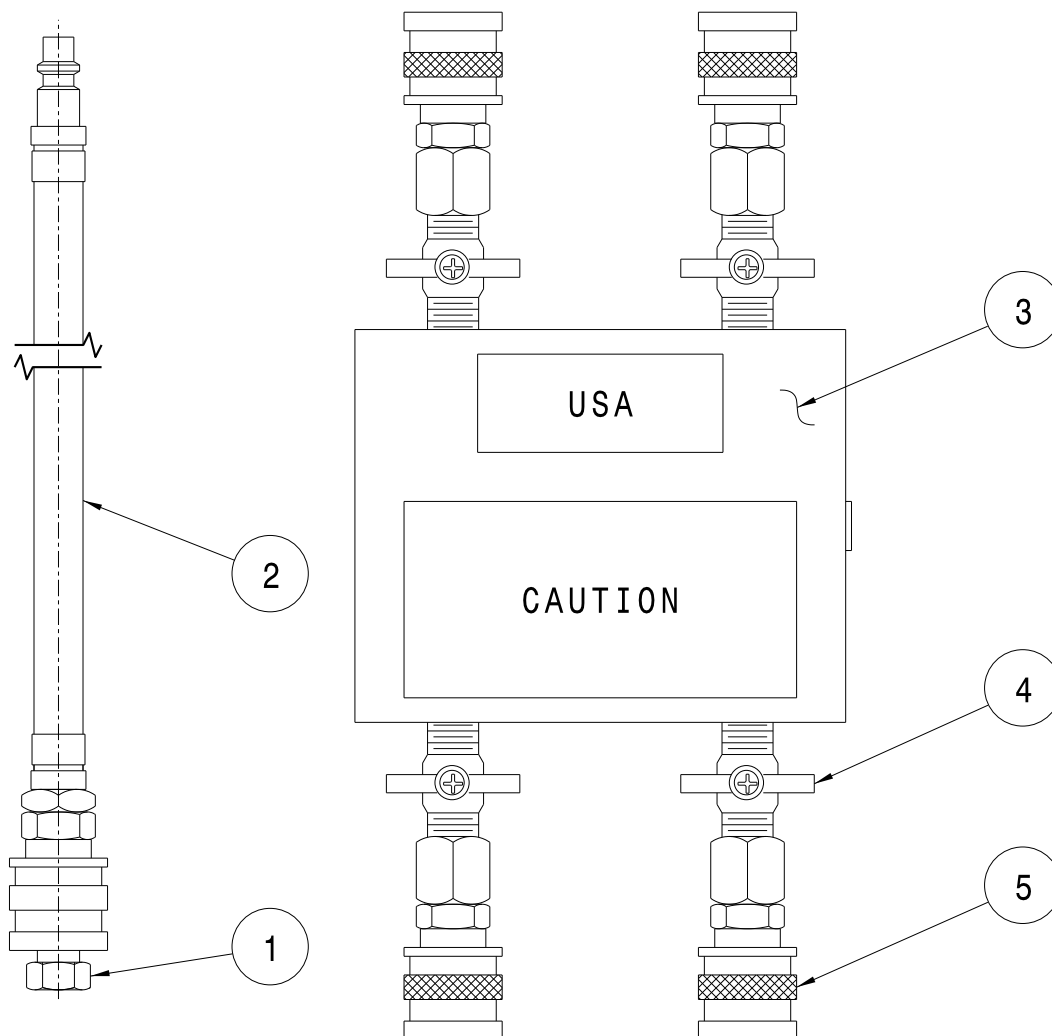
- a) Product Model Number
- b) Product Serial Number
- c) Description of the problem

If warranty coverage is approved, either replacement parts will be sent or the product will have to be returned to Tronair for repairs. If the product is to be returned, a Return Material Authorization (RMA) number will be issued for reference purposes on any shipping documents. Failure to obtain a RMA in advance of returning an item will result in a service fee. A decision on the extent of warranty coverage on returned products is reserved pending inspection at Tronair. Any shipments to Tronair must be shipped freight prepaid. Freight costs on shipments to customers will be paid by Tronair on any warranty claims only. Any unauthorized modification of the Tronair products or use of the Tronair products in violation of cautions and warnings in any manual (including updates) or safety bulletins published or delivered by Tronair will immediately void any warranty, express or implied.

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## Parts List

When ordering Replacement Parts/Kits, please specify Model, Color and Serial Number of your Unit



Item	Part Number	Description	Qty
1	N-2413-02	Plug, Female Thread Q.D.	4
♦ 2	K-1183	Hose, 25 ft (7.6 m)	4
♦ 3	K-2101	Block, Manifold	1
4	H-1173	Valve, Needle	4
5	N-2415-02	Socket Shut-off, Female Thread	4

♦ Those items designated as kits contain all hardware necessary for installation.





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