

4:1 AIR BOOSTER

MODEL NUMBER EAB-04

INSTALLATION, OPERATION & MAINTENANCE MANUAL

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4:1 AIR BOOSTER  
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## 1.0 INSTALLATION

### 1.1 MOUNTING:

The booster comes standard with foot mounting brackets at each end of the pump (for 1/4 inch screws).

The unit may be mounted vertically (wall mount) or horizontally (floor mount).

### 1.2 CONNECTIONS:

Connect CLEAN AND FILTERED shop air (**150 psi maximum**) to the 1/2" NPT "AIR IN" port on the pump. NO Air Regulator or Lubricator is required.

Connect your high pressure circuit to the 1/4 NPT "OUT" port on the pump.

### 1.3 STARTUP:

Connect the compressed air supply to the pump.

If the unit is supplied with the optional on/off air toggle switch, move it to the "on" position.

Starting with the integral air regulator (on the pump) backed-out all the way, slowly increase the pressure by turning the regulator knob clockwise. The pump will start to cycle while regulated pressure flows directly through the pump to the circuit.

The pump will stall when circuit pressure reaches 4 times the regulated pressure. The pump will maintain this pressure even if there is some circuit leakage. At this time check for and fix any circuit leaks since this only causes unnecessary air consumption and wear and tear on the pump.

## 2.0 MAINTAINENCE:

### 2.1 ROUTINE MAINTAINENCE:

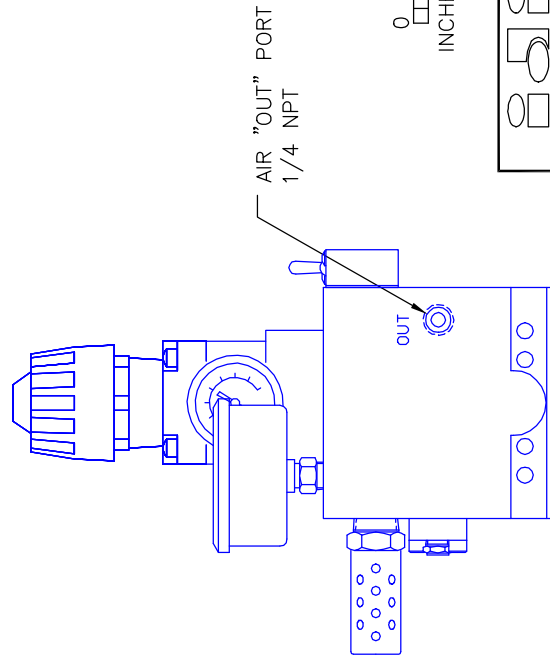
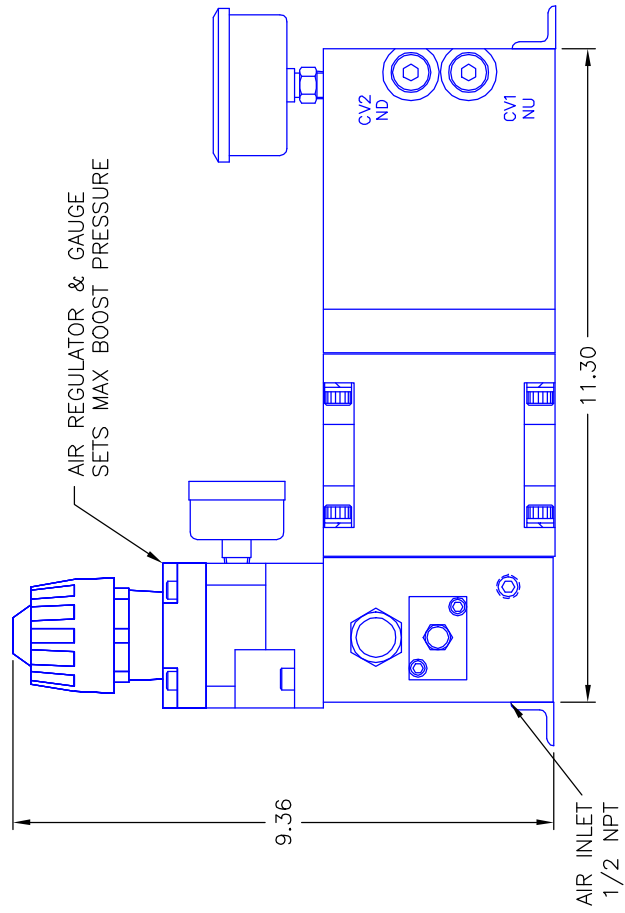
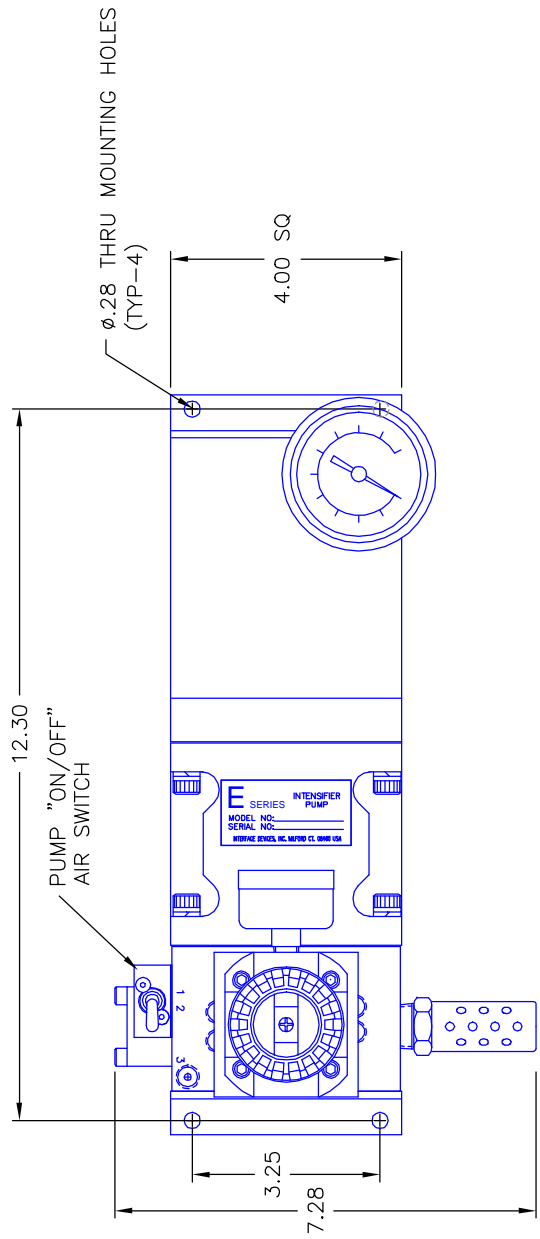
The only routine maintenance required is to re-grease the main air spool and it' six "T-seals" every 6 months.

2.2 TROUBLESHOOTING GUIDE: See following table on page 2.

4:1 AIR BOOSTER TROUBLESHOOTING GUIDE  
(Refer to enclosed Exploded View Drawing)

SYMPTOM	PROBABLE CAUSE(S)	REMEDY
<p>Pump will not cycle. (Only regulated nitrogen pressure at output)</p>	<p>No air supply to pump. Pump air regulator set too low.</p>	<p>Look for and fix. Increase setting.</p>
<p>Pump will <u>still</u> not cycle (Only regulated nitrogen pressure at output)</p>	<p>Four-way Air reciprocating valve spool stuck at mid-position.  After trying remedy above, spool still sticks:</p>	<p>Disconnect/Reconnect air supply (Re-sets air spool to start position.)  Remove 1/8 NPT Breather from spool cap, manually push spool to far end with probe through hole in the Cap. If stuck or requires excessive force, disassemble air valve assembly Inspect for contamination or mechanical bind. Repair or replace, lubricate seals with water-proof grease.</p>
<p>Pump makes one cycle, then stops.</p>	<p>Faulty "2-way air valve" (Broken, leaks or contaminated).</p>	<p>Repair or replace.</p>
<p>Pump cycles constantly when "dead-headed".</p>	<p>External leak at pump or downstream high pressure circuit.  Stuck open or contaminated "Check Valve" cartridge (2 places).  Internal leak in pump.</p>	<p>Look for and correct.  Clean or replace.  Check all dynamic and static seals and gaskets.</p>

For further assistance call INTERFACE DEVICES, INC. at 203/878-4648.



INTERFACE DEVICES, INC. 230 DEPOT ROAD MILFORD, CT 06460	
SCALE: NONE	TITLE: GENERAL ARRANGEMENT,
DWG BY: WNI	AIR BOOSTER
DATE: 2/19/02	EAB-04, EAB-05, & EAB-10
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