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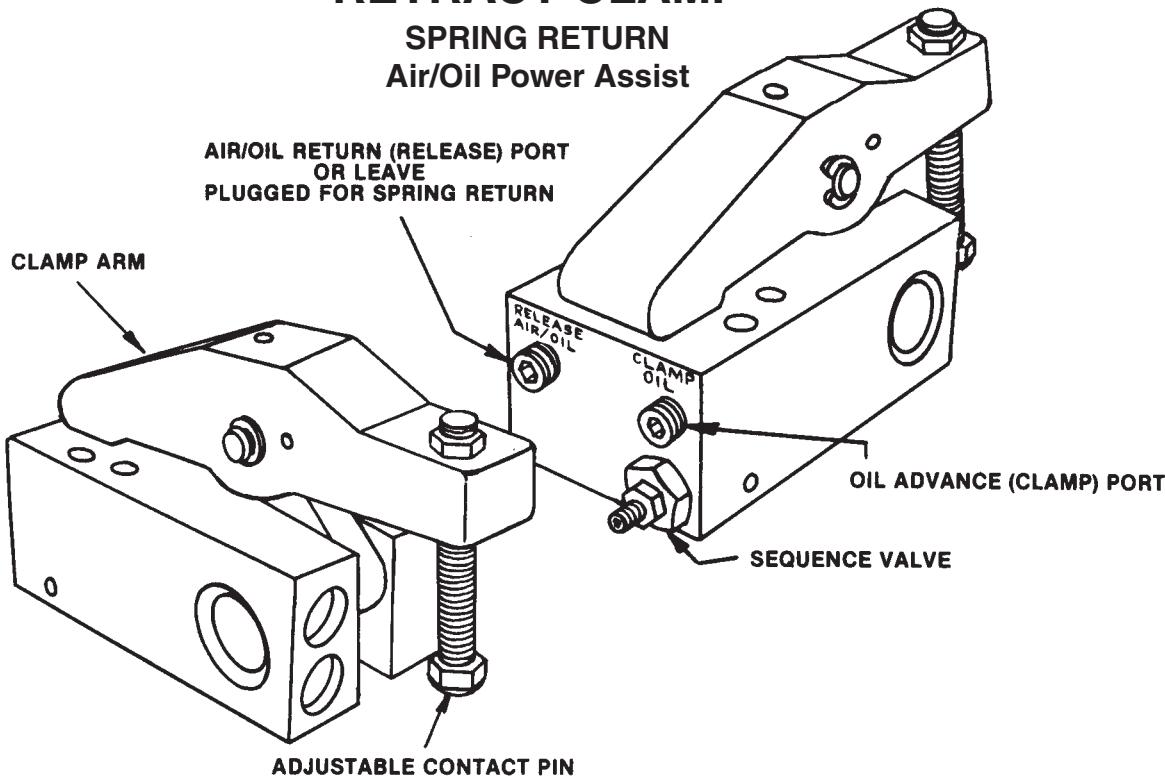
Internet Address:  
<http://www.powerteam.com>

## Operating Instructions for:

100115	110107
100116	110108
100117	110109

## MODEL B RETRACT CLAMP

SPRING RETURN  
Air/Oil Power Assist



## GENERAL INFORMATION

These retract clamps are available, with clamp force ranging from 1610 lbs. to 8295 lbs. based on 3500 PSI maximum operating pressure. All clamps are spring return, however, air or oil may be used to provide power return for the clamping arm.

### Important:

All adjustments are made at the factory when the retract clamp is in new condition. If changes are required, it may be a symptom of a problem, and the retract clamp should be taken to an authorized Power Team hydraulic service center, or sent to: Hydraulic Technologies Power Team  
2121 W. Bridge Street Owatonna,  
Minnesota 55060 Attention: Service  
Repair Dept.

### Note:

- Inspect the unit upon arrival.
- Read carefully and follow these instructions. Most problems with new equipment are caused by improper operation or installation.

Note: Shaded areas reflect last revision(s) made to this form.

Sheet No. 1 of 1

Rev. 2 Date: 15 May 1998

## SAFETY PRECAUTIONS



### WARNING

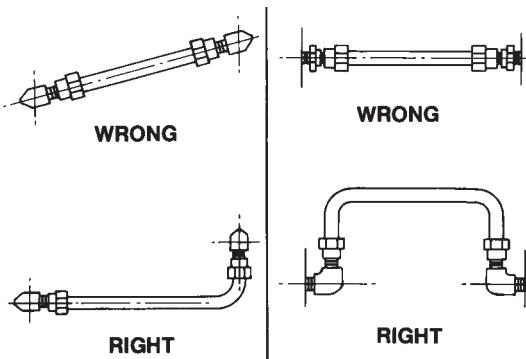
- All WARNING statements must be carefully observed to prevent damage to equipment.
- Do not exceed the rated capacity of the retract clamp.

### Hydraulic Hose Attachment

- Before applying hydraulic pressure all connections must be tightened using the proper tools.
- Do not overtighten the connections. Connections need only be tightened securely and leak-free. Overtightening may cause premature thread failure, or high pressure fittings to split at pressures lower than their rated capacity.
- Avoid any conditions which could damage the hose and impair the pump's performance. Never allow the hose to kink, twist, curl, or bend so tightly that the oil flow within the hose is blocked or reduced. This could damage the hose and possibly result in serious injury to persons working in the immediate vicinity.
- Do not subject the hose to any potential hazard (ex: fire, extreme heat or cold, heavy impact or sharp surfaces) which may cause ruptures or weaken the hose.
- Periodically inspect the hose for signs of wear. Never use a defective hose with any pressurized equipment.
- Always consult the manufacturer before painting the hose(s). Never paint the couplers!
- Avoid contact with creosote-impregnated timber or fabric~

### Tubing Attachment

- Avoid straight line tubing connections in short runs. This does not provide expansion and contraction due to temperature changes.
- Care should be taken to eliminate stress from tube lines. Long tubing runs should be supported by brackets or clips. Tubes through bulk heads should have bulk head fittings. This makes easy removal possible, as well as helping to support the tubing.

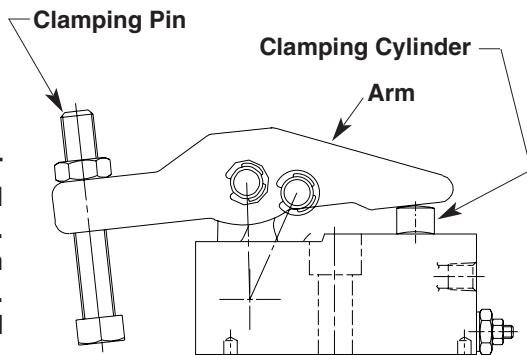


## RETRACT CLAMP OPERATION

1. The retract clamp bolts easily to a work station.
2. Operating the retract clamp to maximum pressure several times should bleed any air from the system.
3. The adjustable contact pin allows fast adjustments for the most secure clamping possible, even when working on irregular shaped parts.

### Important:

- Do not restrict the arm swing.
- Seal all external pipe connections with a high quality, non-hardening thread sealant. Teflon tape may also be used to seal hydraulic connections, provided only one layer of tape is used. Apply the tape carefully, two threads back, to prevent it from being pinched by the coupler and broken off inside the system. Any loose pieces of tape could travel through the system and obstruct the flow of oil or cause jamming of precision-fit parts.
- For longest clamp life, adjust the clamping pin so that the arm is contacted by the center of the clamping cylinder piston when the workpiece is clamped. See illustration at left.



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