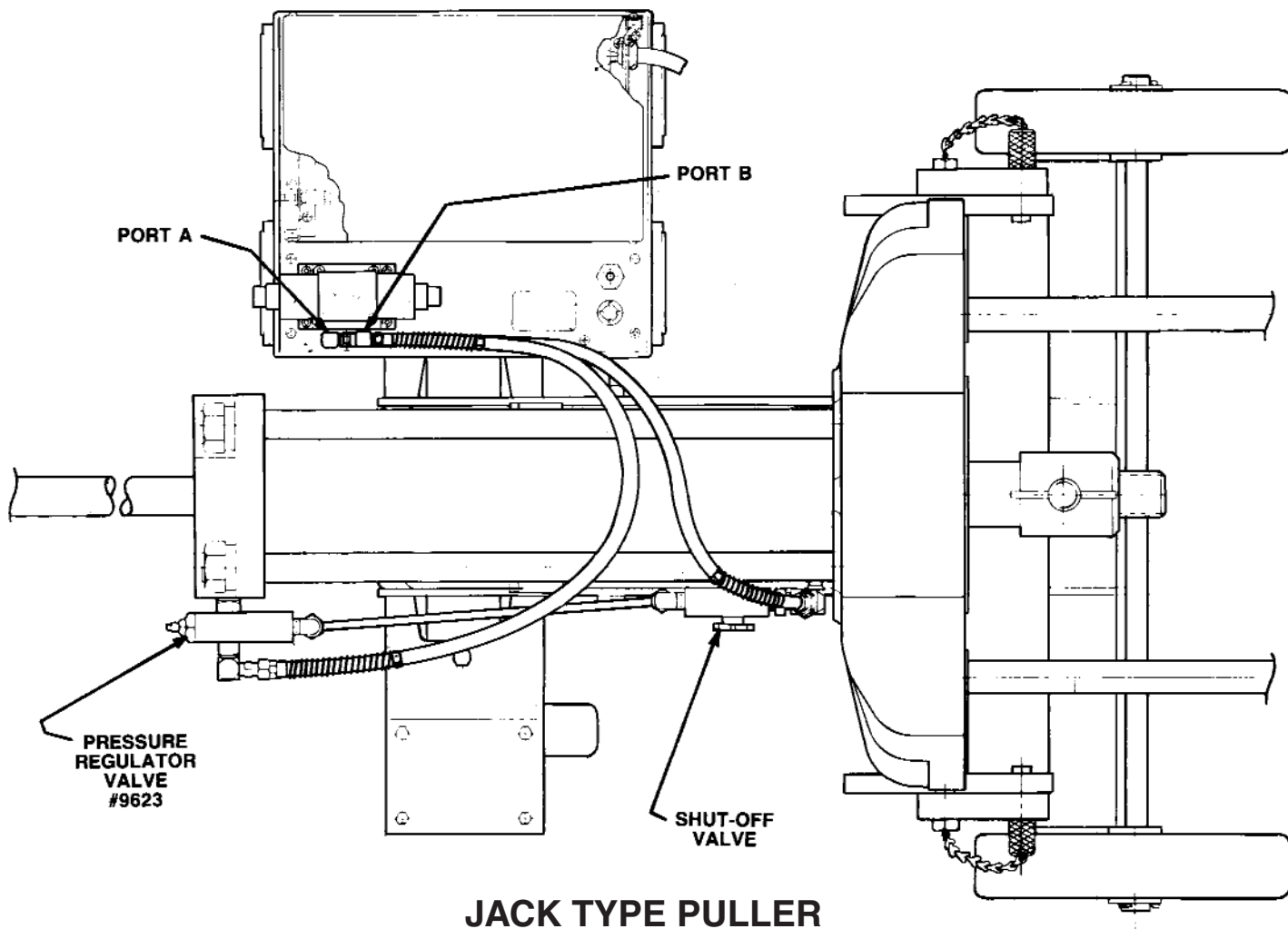


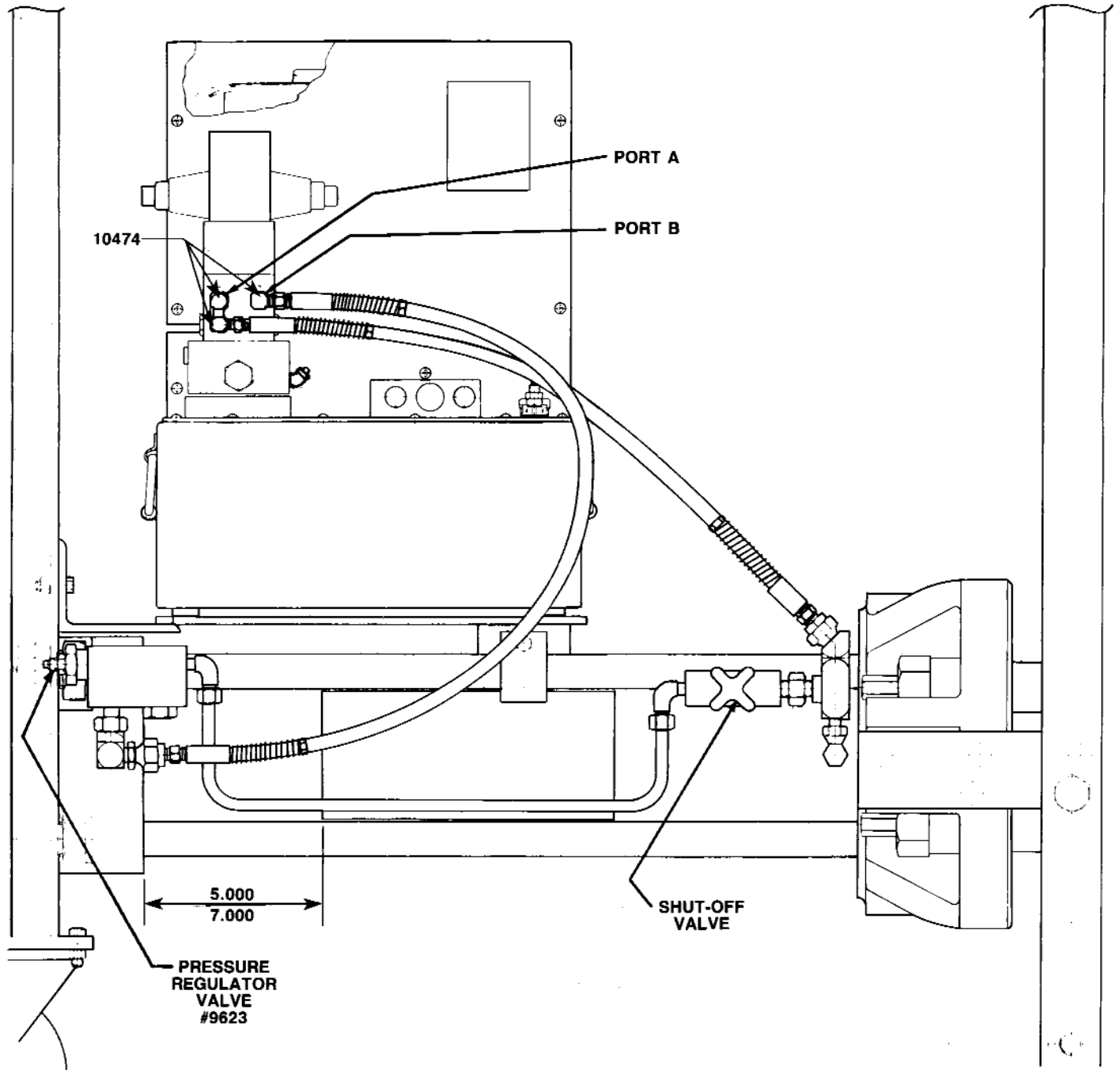
**UNIVERSAL PULLER/INSTALLER
USED ON RAILROAD BEARING SERVICE EQUIPMENT**

**HYDRAULIC HOSE CONNECTION AND
PRESSURE REGULATOR**



JACK TYPE PULLER

HYDRAULIC HOSE CONNECTION AND PRESSURE REGULATOR



SLING TYPE PULLER

SAFETY PRECAUTIONS



WARNING: To help prevent personal injury,

Hydraulic Hose

- Before operating the pump, all hose connections must be tightened with the proper tools. Do not overtighten. Connections need only be tightened securely and leak-free. Overtightening may cause premature thread failure or may cause high pressure fittings to split at pressures lower than their rated capacities.
- Always shut off the electric motor before breaking any connection in the system.
- Should a hydraulic hose ever rupture, burst, or need to be disconnected, immediately shut off the pump. Never attempt to grasp a leaking hose under pressure with your hands. The force of escaping hydraulic fluid could cause serious injury.
- Do not subject the hose to potential hazard such as fire, extreme heat or cold, sharp surfaces, or heavy impact. Do not allow the hose to kink, twist, curl, or bend so tightly that the oil flow within the hose is blocked or reduced. Periodically inspect the hose for wear because any of these conditions can damage the hose and result in personal injury.
- Do not use the hose to move attached equipment. Stress may damage the hose and cause personal injury.
- Hose material and coupler seals must be compatible with the hydraulic fluid used. Hoses also must not come in contact with corrosive materials such as creosote-impregnated objects and some paints. Consult the manufacturer before painting a hose. Never paint the couplers. Hose deterioration due to corrosive materials may result in personal injury.

Cylinder

- Do not exceed rated capacity of the cylinder. Excess pressure may result in personal injury.

OPERATING INSTRUCTIONS

HOSE CONNECTION

IMPORTANT:

Seal all hydraulic connections with Power Team HTS6 thread sealant. Teflon tape can be used to seal hydraulic connections if only one layer of tape is used. Apply carefully, two threads back, to prevent the tape 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.

Hose connections should be done in the following sequence:

MODELS PR2100J & PR3100J

1. Connect one 40 in. hose from port "A" to shut-off valve as shown in diagram.
2. Connect the other 40 in. hose from port "B" to pressure regulator valve as shown in diagram.

MODELS PR2100S & PR3100S

1. Connect the 2 ft. hose from port "A" to shut-off valve as shown in diagram.
2. Connect the 40 in. hose from port "B" to pressure regulator valve as shown in diagram.

NOTE: If hoses are connected wrong, the remote control switch will operate the cylinder in reverse of what the decal indicates.

EXTERNAL PRESSURE REGULATOR

The pressure regulator valve allows the operator of the bearing puller/installer to limit the pressure on the return stroke of the cylinder when the journal axle bearings are being installed.

The pressure regulator valve (#9623) has been set at 6,000 PSI. The maximum force (output) of the cylinder at 6,000 PSI when the piston is being retracted is 40 tons (with the shut-off valve open). If the maximum force of the cylinder is needed for bearing installation, the shut-off valve should be closed.

Adjusting the Pressure Regulator Valve (Refer to Parts List #100707)

NOTE: For easy adjustment of the pressure regulator valve, always adjust the pressure by INCREASING it to a desired pressure setting. The pressure range for this unit is 1,000 PSI to 10,000 PSI.

1. Loosen the locknut on the pressure regulator valve. Turn the adjusting screw a few turns counterclockwise (CCW) to decrease the pressure setting to a lower than desired pressure.
2. Open the shut-off valve.
3. Place the four-way control valve in the RETURN position.
4. Start the pump and build pressure on the return side of the #9623 valve. slowly turn the adjusting screw in a clockwise (CW) direction to gradually increase the pressure setting. When the desired pressure setting is reached, lock the adjusting screw into position by tightening the locknut.