

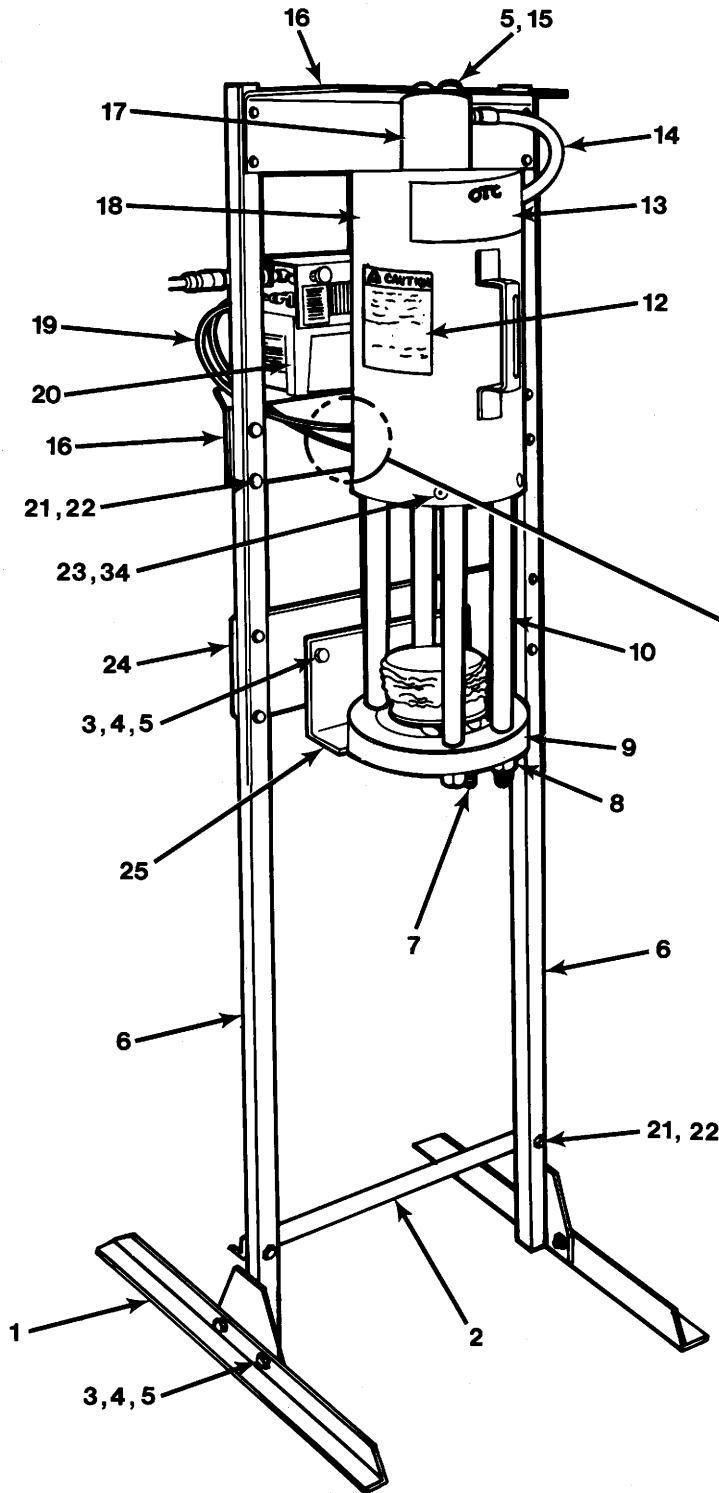


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Parts List &  
 Operating Instructions  
 for:

1877

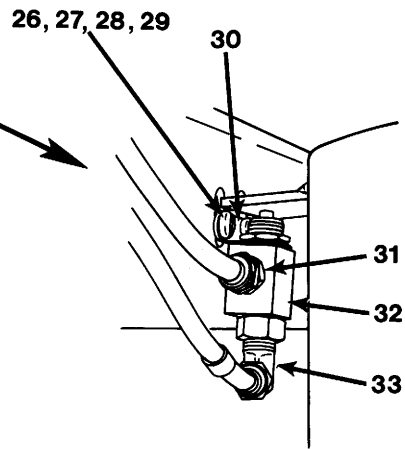
Heavy Duty  
**Oil Filter Crusher**



Refer to any operating instructions included with the product for detailed information about operation, testing, disassembly, reassembly, and preventive maintenance.

Items found in this parts list have been carefully tested and selected by OTC. **Therefore: Use only OTC replacement parts!**

Additional questions can be directed to the OTC Technical Services Department.



Item No.	Part No.	No. Req'd	Description
1	311029	2	Foot Angle
2	310849	1	Angle
3	10080	6	Hex. Hd. Cap Screw (1/2-13 x 1-1/4" lg.)
4	10208	6	Hex Nut (1/2-13)
5	10249	8	Lockwasher (for 1/2" bolt)
6	48635	2	Upright Assembly
7	210195	2	Barbed Hose Fitting
8	217800	8	Locknut (3/4-16; Torque to 300/320 ft. lbs.)
9	53733-BL2	1	Bottom Plate
10	311031-WH2	4	Rod
12	311050	1	Warning Decal
13	311051	1	Decal
14	306519	1	Hydraulic Hose
15	10079	2	Hex Hd. Cap Screw (1/2-13 UNC x 1" lg.)
16	62368	2	Mounting Bracket
17	218229-BL2	1	25 Ton Ram
18	62370-BL2	1	Shield Assembly
19	14726	6.75 Ft.	Plastic Tube (1/4 dia.)
20	218228	1	Air Hydraulic Pump
21	12331	14	Hex Hd. Cap Screw (5/16-18 x 2-1/4" lg.)
22	13116	15	Locknut (5/16-18)
23	15349	4	Pop Rivet
24	48562	1	Plate
25	48638-BL2	1	Angle Bracket
26	10197	2	Hex Nut (10-24)
27	17598	2	Screw (10-24 x 5/8" lg.)
28	10241	2	Lockwasher (#10)
29	11089	2	Washer (#10)
30	217732	1	Mounting Bracket
31	15042	1	Straight Fitting
32	311026	1	Control Valve
33	15045	1	90° Elbow Fitting
34	218213	2	Bearing Strip

#### Parts Included But Not Shown

218367	1	Bearing Strip
311030	1	Threaded Adapter
48637-BL2	1	Top Plate
216703	1	Decal
10009	2	Hex Hd. Cap Screw (1/4-20 x 3/4 lg.)
10199	2	Hex Nut (1/4-20)
11858	1	Hex Hd. Cap Screw (5/16-18 x 7/8 lg.)
10245	2	Lockwasher
10246	1	Lockwasher
12719	4	Flat Washer
219665	1	Angle
311921	1	Bracket
10257	1	Washer (5/16 Bolt)

Shaded area reflects last revisions made to this form.

## Safety Precautions



**WARNING:** To help prevent personal injury,

- Read and follow the operating instructions supplied with the pump and cylinder.
- Wear eye protection that meets ANSI Z87.1 and OSHA standards.
- Center the oil filter over the center pin in the counterbore. The filter's open end (sealing side) must be facing down toward the drain holes.
- Do not open the shield until the cycle is complete and the pump shuts off. Do not remove or modify the shield.
- Regularly inspect hoses for signs of wear or stress. If a hydraulic hose ruptures, immediately shut OFF the pump.
- Keep tie rod nuts torqued at 300-320 ft. lbs.
- Keep override switch in working order.
- Handle crushed filter carefully. Sharp edges can scratch, cut, or puncture skin.

## Assembly

1. Place the pump on the pump mounting bracket. Thread four self-tapping screws (provided) through the underside of the bracket into the pump reservoir.
2. Remove the nuts and ferrels from the two air fittings on the control valve. Slide one nut and ferrel onto the **air hose marked with shrink wrap**, and insert that hose into the **90° fitting** on the bottom of the control valve. Holding the hose snug against the fitting, tighten the nut to crimp the hose to the fitting. See Figure 1. Slide the other nut and ferrel on the other air hose, and insert that hose into the straight fitting on the side of the control valve. Tighten the nut.
3. Align the control valve bracket with the slots in the pump mounting bracket. Loosely fasten the control valve to the mounting bracket using two 5/8" screws inserted through the brackets and fastened with flat washers, lockwashers, and nuts.
4. Position the control valve so the tab on the shield fully engages the override switch when the shield is closed. Tighten the screws assembled in Step 3.
5. Using a wrench, turn the 90° fitting on the pump toward the cylinder. See Figure 2.
6. Apply pipe sealant or one layer of teflon tape to the threads on one end of the hydraulic hose. **Important: Carefully apply only one layer of teflon tape, leaving the first thread exposed.** Loose pieces of tape could be pinched and broken off inside the pipe end, causing the tape to travel through the system and possibly obstruct oil flow.
7. Remove the plastic plugs from the ram and pump. Thread the end of the hose with the teflon tape into the ram. Attach the other hose end to the 90° swivel on the pump.
8. Thread the two barbed hose fittings into the bottom plate.
9. Cycle the unit once and check the oil level in the pump reservoir.

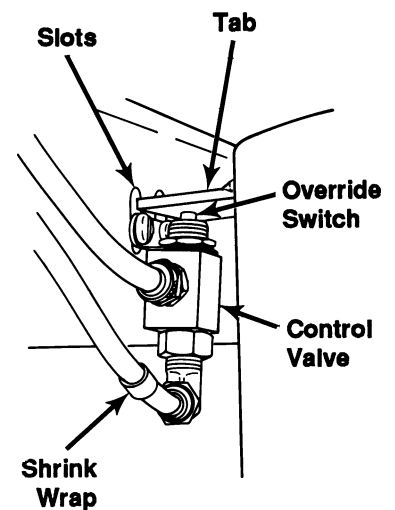


Figure 1

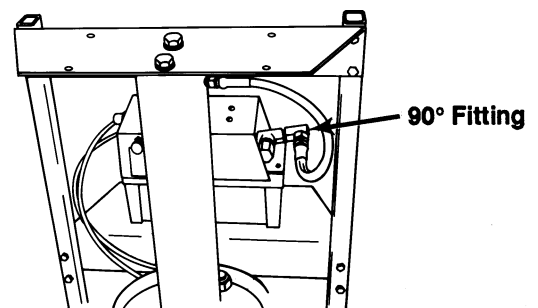


Figure 2

Sheet No. 2 of 2

Issue Date: Rev. 5/25/00

### Operating Instructions

1. Place an approved waste oil container under the drain holes of the Oil Filter Crusher .
2. Connect the pump to shop air regulated at 90-125 PSI maximum.
3. Lift the ram shield and center the oil filter over the center pin in the counterbore. The filter's open end (the sealing area containing the o-ring) must be facing down toward the drain holes. When the oil filter is crushed, the oil will flow through the drain holes.
4. Close the ram shield and press the start button on the pump. The pump will build pressure and, when the cycle is complete, automatically shut off and release pressure. **Do not open the shield until the cycle is complete and the pump shuts off.** If it is necessary to interrupt the cycle, pull the start button out. The pump will stop and the ram will retract.
5. Open the ram shield and remove the crushed filter, being careful not to scratch, cut, or puncture your skin on the filter's sharp edges. If the o-ring was separated from the filter during the crushing process, dispose of the o-ring also.
6. Recycle or dispose of waste oil and oil filters according to local, state, and federal regulations.

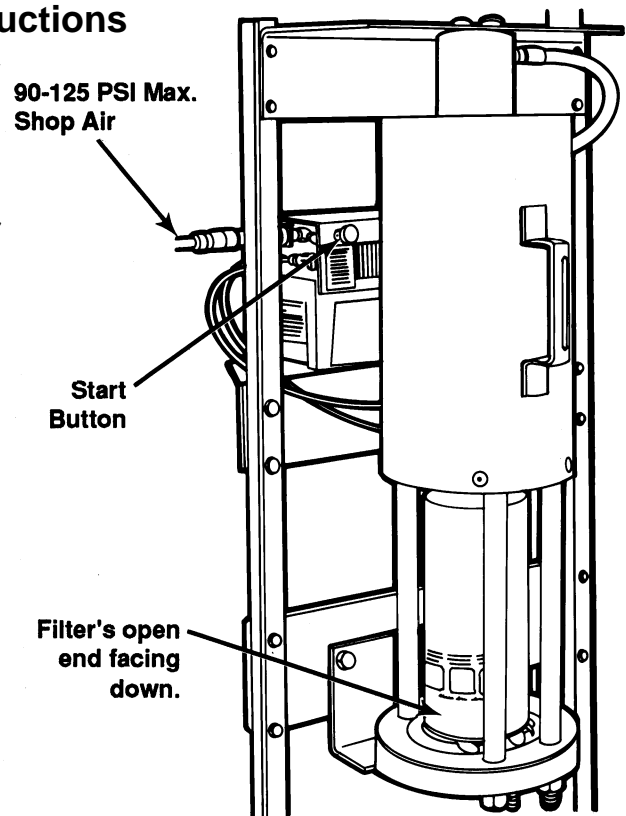


Figure 3

### Maintenance

1. Maintain the oil level in the pump reservoir according to the operating instructions included with the pump.
2. Regularly inspect the hoses for signs of wear or stress, and replace as needed.
3. Keep the tie rod nuts torqued at 300-320 ft. lbs.
4. Keep the override switch in working order.