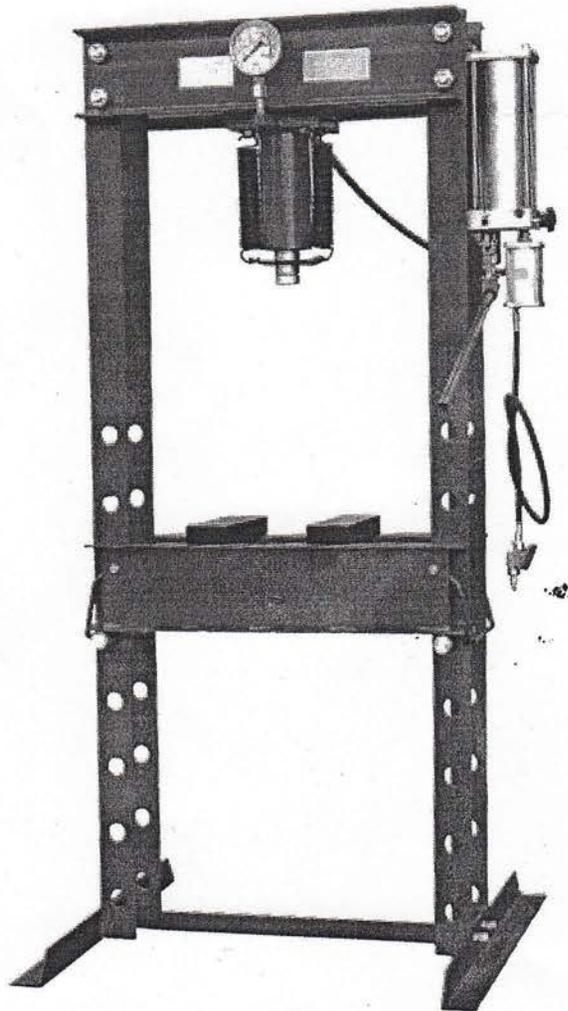


40 TON AIR/MANUAL SHOP PRESS



Instruction Manual

Please read this instruction manual carefully before use.

IMPORTANT

PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFETY INSTRUCTIONS AND WARNINGS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE TO PROPERTY AND/OR SERIOUS PERSONAL INJURY. PLEASE KEEP THIS INSTRUCTION MANUAL SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS AND WARNINGS

- 1.1 Use a qualified person to maintain the press in good condition. Keep it clean for best and safest performance.
- 1.2 The maximum load is 40tons. **DO NOT** exceed this rated capacity. Never apply excessive force to a workpiece and always use the pressure gauge to accurately determine the applied load.
- 1.3 Use this press for the purpose for which it is intended. **DO NOT** use it for any other purpose it is not designed to perform.
- 1.4 Keep children and unauthorized persons away from the work area.
- 1.5 Remove ill fitting clothing. Remove ties, watches, rings and other loose jewelry, and contain long hair.
- 1.6 Wear ANSI approved impact safety goggles, full-face impact safety shield and heavy-duty work gloves when operating the press.
- 1.7 Keep proper balance and footing, do not overreach and wear nonskid footwear.
- 1.8 Only use this press on a surface that is stable, level, dry and not slippery, and capable of sustaining the load. Keep the surface clean, tidy and free from unrelated materials and ensure that there is adequate lighting.
- 1.9 Inspect the press before each use. **DO NOT** use if bent, broken, cracked, leaking or otherwise damaged, any suspect parts are noted or it has been subjected to a shock load.
- 1.10 Check to ensure that all applicable bolts and nuts are firmly tightened.
- 1.11 Ensure that workpiece is center-loaded and secure.
- 1.12 Keep hands and feet away from bed area at all times.
- 1.13 **DO NOT** use the shop press to compress spring or any other item that could disengage and cause a potential hazard. Never stand directly in front of loaded press and never leave loaded press unattended.
- 1.14 **DO NOT** operate the press when you are tired or under the influence of alcohol, drugs or any intoxicating medication.
- 1.15 **DO NOT** allow untrained persons to operate the press.
- 1.16 **DO NOT** make any modifications to the press.
- 1.17 **DO NOT** use brake fluid or any other improper fluid and avoid mixing different types of oil when adding hydraulic oil. Only good quality hydraulic jack oil can be used.
- 1.18 **DO NOT** expose the press to rain or any other kind of bad weather.
- 1.19 If the press need repairing and/or there are any parts that need to be replaced, have it repaired by authorized technicians and only use the replacement parts supplied by the manufacturer.
- 1.20 **WARNING:** the warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

2. SPECIFICATIONS

Capacity.....	40ton	Stroke	180mm (7-1/16")
Working Range	0-1050mm (0-41-5/16")	Bed Width	655mm (25-3/4")
Air Inlet Fitting	1/4" NPT	Air Pressure.....	120-200PSI

3. ASSEMBLY

Use the exploded drawing as your guide to assemble. Lay all parts and assemblies out in front of you before beginning. The following procedure is recommended:

- 3.1 Attach two upper crossbeams (18) to left and right posts (11) using bolts (12), lock washers (14) and nuts (13).
- 3.2 Attach one base section(1) to left post and lower cross member(53) using bolts(2), washers(50), lock washers(51) and nuts(52), then attach another to right post and lower cross member.

- 3.3 Put the press frame in an upright position, insert bed frame pin(48) into the holes in the posts, then insert the bed frame(49) into press frame and onto bed frame pin, then assemble pull-rod(3) to the bed frame.
- 3.4 Attach the pump and air motor assembly to the right post using bolts (23) and washers (24).
- 3.5 Attach the ram assembly to the upper crossbeam using bolts (17), lock washers (28) and nuts (29).
- 3.6 Connect the hydraulic hose (19) to the ram (9) and assemble the pressure gauge (15) to ram assembly.

4. BEFORE FIRST USE

- 4.1 Before first use of this product, pour a teaspoon of good quality, air tool lubricant into the air supply inlet of the lift control valve, connect to air supply to air supply and operate for 3 seconds to evenly distribute lubricant.
- 4.2 Purge away air from the hydraulic system.

Manual operating system: open the release valve (38) by turning it counterclockwise. Pump several full strokes to eliminate any air in the system.

Air operating system: open the release valve (38) by turning it counterclockwise. Connect the air inlet fitting (55) into the air supply hose lock fitting, then turn on the air valve (39) letting the pump work for several times to eliminate any air in the system.

5. OPERATING INSTRUCTIONS

WARNING! Ensure that you read, understand and apply the safety instructions and warnings before use.

- 5.1 Place the heel block (47) on bed frame (49), then insert workpiece onto the heel block.
- 5.2 Close the release valve (38) by turning it clockwise until it is firmly closed.
- 5.3 Connect the air inlet fitting (55) into the shop air supply hose lock fitting, turn on the air valve(39) to let the pump work until serrated saddle(5) nears workpiece, then turn off the air valve. When air source is unavailable, pump the handle until serrated saddle nears workpiece.
- 5.4 Align workpiece and ram to ensure center-loading.
- 5.5 Turn on air valve (or pump the handle) to apply load onto workpiece.
- 5.6 When work is done, turn off the air valve (or stop pumping handle), slowly and carefully remove load from workpiece by turning the release valve counterclockwise in small increments.
- 5.7 Once ram has fully retracted, remove workpiece from bed frame.
- 5.8 Disconnect the air inlet fitting from the air source.

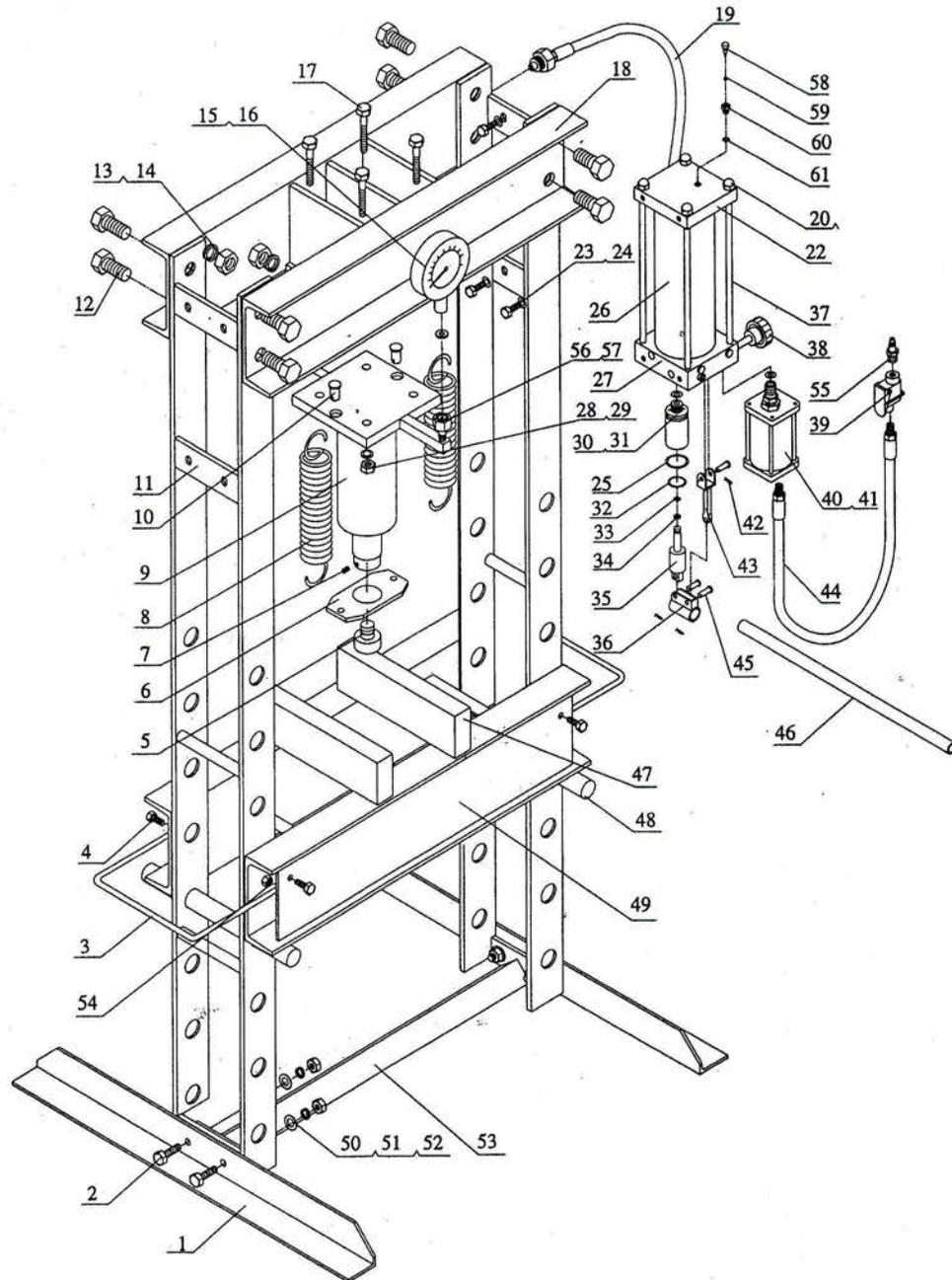
6. MAINTENANCE

- 6.1 Clean the outside of the press with dry, clean and soft cloth and periodically lubricate the joints and all moving parts with a light oil as needed.
- 6.2 When not in use, store the press in a dry location with ram and piston fully retracted.
- 6.3 When press efficiency drops, purge away air from hydraulic system as described in section 4.2.
- 6.4 Check the hydraulic oil: remove the oil filler nut (60) on the top of the reservoir, if the oil is not adequate, fill with high quality hydraulic jack oil as necessary, then replace the oil filler nut, purge away air from the hydraulic system as described in 4.2.

PARTS LIST

Part No.	Description	Qty	Part No.	Description	Qty	Part No.	Description	Qty
1	Base section	2	12	Bolt M24x50	8	23	Bolt M10	4
2	Bolt M12x35	4	13	Nut M24	8	24	Washer 10	4
3	Pull-rod	2	14	Lock washer 24	8	25	O-ring	1
4	Bolt M10	4	15	Pressure gauge	1	26	Reservoir	1
5	Serrated saddle	1	16	Nylon pad	1	27	Pump body	1
6	Spring hook saddle	1	17	Bolt M14	4	28	Lock washer 14	4
7	Screw M8x12	1	18	Upper crossbeam	1	29	Nut M14	4
8	Tension spring	2	19	Hydraulic hose	1	30	Washer	1
9	Ram	1	20	Nut M10	4	31	Small ram	1
10	Pin	2				32	O-ring	1
11	Post	2	22	Reservoir cover	1			

EXPLODED DRAWING



PARTS LIST (CONTINUED)

Part No.	Description	Qty	Part No.	Description	Qty	Part No.	Description	Qty
33	O-ring	1	43	Connecting rod	1	53	Lower cross member	1
34	Nylon retaining ring	1	44	Air hose	1	54	Lock nut M10	4
35	Small piston	1	45	Pin 8x28	3	55	Air inlet fitting	1
36	Handle bracket	1	46	Handle	1	56	Pressure gauge fitting	1
37	Stay bolt M10	4	47	Heel block	2	57	Nut	1
38	Release valve	1	48	Bed frame pin	2	58	Screw	1
39	Air valve	1	49	Bed frame	1	59	Sealing ring	1
40	Air motor	1	50	Washer 12	4	60	Oil filler nut	1
41	Air motor	1	51	Lock washer 12	4	61	Nylon ring	1
42	R-pin	3	52	Nut M12	4			