



INSTRUCTIONS FOR : HYDRAULIC PRESS YANKEE 20TONNE FLOOR TYPE MODEL No: **YK20F.V3**

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.



IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

- ✓ Familiarise yourself with the applications, limitations and hazards of the press.
- ✓ Maintain the press in good condition (use an authorised service agent).
- ✓ Replace or repair damaged parts. *Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*
- ✓ Keep the press clean for best and safest performance.
- ✓ Locate the press in a suitable work area, on a surface that is stable, level, dry, not slippery, and capable of sustaining the load. Keep area clean and tidy and free from unrelated materials, and ensure there is adequate lighting.
- ❑ **WARNING!** Always wear approved eye or face protection when operating the press.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery, and contain long hair.
- ✓ Keep hands and body clear of the work table when operating the press.
- ✓ Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Keep children and unauthorised persons away from the working area.
- ✗ **DO NOT** over reach; maintain correct balance and footing.
- ✗ **DO NOT** use the press for a task it is not designed to perform.
- ✗ **DO NOT** adjust or tamper with the safety valve, or make any modifications to the press.
- ✗ **DO NOT** exceed the rated capacity of the press. Avoid applying excessive force, use the pressure gauge to determine the applied load.
- ✗ **DO NOT** apply off-centre loads. Ensure that the workpiece is centrally loaded and correctly secured before operating the press.
- ✗ **DO NOT** allow the workpiece or the arbor plates to fall from the press work bench.
- ✗ **DO NOT** get the press wet or use in damp or wet locations or areas where there is condensation.
- ✗ **DO NOT** operate the press when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✗ **DO NOT** climb upon the press.
- ✗ **DO NOT** use if bent, broken, cracked, leaking or otherwise damaged, or if the press has been subjected to a shock load.
- ✗ **DO NOT** operate the press if any parts are missing as this may cause failure and/or possible personal injury.
- ✗ **DO NOT** use the press to compress a spring or any other item that could disengage and cause a potential hazard.
- ✗ **DO NOT** stand directly in front of the loaded press and never leave the loaded press unattended.
- ✗ **DO NOT** allow untrained persons to operate the press.
- ▲ **DANGER!** This model is purpose designed to withstand greater loads than the hydraulic unit can develop. For safety reasons, always ensure the workpiece and press tools are secured on the table and will not flex or suddenly give way, causing danger to operator or the workpiece.
- ❑ **WARNING: DO NOT use brake fluid, or any fluid other than a good quality jack oil, such as SEALEY HYDRAULIC JACK OIL, as this may cause serious damage to the press and will invalidate the warranty!**
- ✓ When not in use, release pressure from the pump and clean the press. Stand or store the arbors in a safe, childproof location.

2. INTRODUCTION & SPECIFICATION

This heavy-duty hydraulic press is ideal for a variety of workshop applications and is particularly suitable for agricultural and industrial use. Tasks such as straightening, bending, folding, punching, removing bolts and bearings etc. are some of the tasks that this press may be used for. The hydraulic system is fitted with a pressure gauge and the press is supplied with work table arbors. A detachable pump and ram allows hydraulics to be used for other purposes when press is not in use.

SPECIFICATION:

Model No: YK20F.V3
Mounting: Floor
Capacity: 20tonne
Type: Hydraulic
Ram stroke: 185mm
Ram diameter: 50mm
Max height - ram to table: 1025mm
Min height - ram to table: 65mm

Lateral ram travel: 400mm
Table aperture: 105mm
Work table width: 550mm
Work table depth: 205mm
Overall height: 1810mm
Gauge included: Yes
Weight: 93kg

3. ASSEMBLY

- 3.1. Unpack the product and check the contents. Should there be any damaged or missing parts, contact your supplier immediately. Take care to ensure safety when removing main frame from its packing, as the unit is very heavy.
- 3.2. Use the parts diagram as your guide to assembly. Lay all parts and assemblies out before beginning assembly. The following procedure is recommended.
- 3.3. Attach one base section (21) to the left post (20) and lower support (26), using bolts (25), washers (22), spring washers (23) and nuts (24) to secure, then repeat with the other base section (21), attaching it to the right post (20) and the lower support (26).
- 3.4. Place the press frame in an upright position, attach one upper cross beam (10) to left and right posts (20) using bolts (9), washers (13), lock washers (12) and nuts (11).
- 3.5. Place the other upper cross beam (10) in position and insert the under plate (7) to the two upper cross beams at the same time, then secure this cross beam to the posts using bolts (9), washers (13), lock washers (12) and nuts (11).
- 3.6. Screw the upper round nut (6) onto the ram (3), insert the ram into the hole in the under plate (7), then screw the nut (8) onto the ram and attach the serrated saddle (5) to the ram.
- 3.7. Join the two press bed frames (18) together by inserting the four bolts (27) through the bushings (28) and the holes in the bed frames, then secure the four bolts with the washers (14), lock washers (15) and nuts (16).

- 3.8. Insert the bed frame pins (19) into the holes in the posts, then insert the joined press bed frames (18) into press frame and lower onto the bed frame pins (19).
- 3.9. Attach the support plate (31) to the right post, using bolts (25), washers (22), spring washers (23) and nuts (24), then secure the pump assemblies using the screws (29) and washers (30), insert the handle in the handle bracket.
- 3.10. Connect the hydraulic hose fitting (36) to the connection nut (37) and fit the pressure gauge (1) to the pressure gauge connection nut (38) which is on the top of ram (3).
- 3.11. Tighten all fixings. (nuts, screws and bolts)

4. INSTALLATION & OPERATION

4.1. INSTALLATION.

- 4.1.1. Securely attach the press to a flat, firm, level surface, taking into account any clearance required for workpieces.
- 4.1.2. Before operating the press, purge the hydraulic system in order to eliminate any air that may have built up during transit. Open the release valve by turning it anti-clockwise and pump the handle several times to eliminate any air from the system, then close the release valve. **Note:** Should the system malfunction at any time, repeating this process may resolve the problem.

▲ **DANGER!** This model is purpose designed to withstand greater loads than the hydraulic units can develop. For safety reasons, always ensure the workpiece and press tools are secured on the table and will not flex or suddenly give way, causing danger to the operator, other personnel present or the workpiece. Also ensure that you have read and understood Section 1 **SAFETY INSTRUCTIONS**.

4.2. OPERATION.

- 4.2.1. Position the working table at the required operating height by inserting the support pins into the appropriate holes in the main frame.
- 4.2.2. Place the arbor plate (17) on the press bed frame (18), then place workpiece onto the arbor plate and align beneath the ram as required. **Note:** care must be taken to ensure an arbor does not fall from the press work table. If necessary hold the configuration in position with clamps.
- 4.2.3. Close the release valve by turning it clockwise until it is firmly closed.
- 4.2.4. Pump the handle slowly until the ram is in close proximity to, or just touching the workpiece. Before applying any pressure to the workpiece, recheck the alignment with the ram and ensure that the workpiece and press tools are supported in such a way that they cannot flex.
- 4.2.5. Pump the handle to apply load to workpiece.
- 4.2.6. When work is complete, stop pumping the handle. Slowly and carefully free the load from the workpiece by turning the release valve anti-clockwise in small increments.
- 4.2.7. Once the ram has fully retracted, remove the workpiece from the bed frame.
Note: Always keep the piston retracted after use to avoid ram corrosion.

5. MAINTENANCE

Note: Maintenance and repair must only be carried out by a qualified person. Contact your Sealey dealer for details.

- 5.1. Periodically lubricate all joints and moving parts.
- 5.2. Always keep the press clean, dry, and protected from harsh conditions.
- 5.3. To check hydraulic oil level, remove the oil filler nut (34) from the pump. If it needs filling, use only Sealey hydraulic jack oil, contact your local Sealey dealer for details. **DO NOT** use brake fluid. Replace oil filler nut and purge system of air (see 4.1.2.).
- 5.4. When replacing the hydraulic oil, ensure the piston is fully retracted.
- 5.5. If press efficiency begins to drop, purge the system to eliminate any air from the hydraulic system (see 4.1.2.).
- 5.6. When not in use, clean the press and ensure that the ram and piston are fully retracted.

IMPORTANT: NO RESPONSIBILITY IS ACCEPTED FOR INCORRECT USE OF THE MACHINE.

Hydraulic products are only repaired by local service agents. We have service/repair agents in all parts of the UK.

DO NOT return product to us. Please telephone us on 01284 757500 to obtain the address and phone number of your local agent. If product is under guarantee please contact your dealer.

De-commissioning Product.

Should the product become completely unserviceable and require disposal, draw off the hydraulic oil into an approved container and dispose of the product and the hydraulic oil according to local regulations.

NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

IMPORTANT: No liability is accepted for incorrect use of this product.

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.

