



SEALEY PFC301 3tonne Fixed Frame Crane Instructions

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SEALEY PFC301 3tonne Fixed Frame Crane Instructions



MODEL NO: PFC301

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 & CAUTIONS. USE THE 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. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to
instructions



Wear protective
gloves



Wear safety
footwear



Wear protective
clothing

1. SAFETY

- ✓ Keep crane, lifting slings, support and beams in good working order and condition. Take immediate action to repair or replace damaged parts by contacting your supplier. Ensure that all accessory lifting devices are suitably certified.
- ❑ **WARNING!** If crane is damaged, remove from service immediately.
- ✓ Ensure the surface on which the crane is used is level, firm and capable of supporting the weight of the crane with maximum load - e.g. concrete. **DO NOT** use the crane on tarmacadam or other soft surfaces.
- ✓ Keep children and unauthorised persons away from the working area.
- ✓ Keep working area clean and tidy, free from unrelated materials and ensure that there is adequate lighting.
- ✓ Ensure that load does not exceed the maximum lifting capacity of the crane. Overloading the crane is dangerous. Where appropriate, use only the lifting points recommended by the manufacturer of the item to be lifted, e.g. vehicle engine.
- ✓ Before lifting the load ensure that the crane jib is in the lowest practical position, that there are no obstacles which may snag the load whilst it is being lifted and that the area above the jib is clear.
- ✓ To avoid injury, be fully aware of your own and other persons locations in relation to the lifting and lowering, of the load.
- ✓ Keep a sound footing and balance, and ensure the floor is not slippery.
- ✓ Ensure jib extension is locked in position before lifting.
- ✓ Ensure the center of gravity always remains inside the crane base.
- ✗ **DO NOT** harness the load at an angle or use any attachments not verified as fit for purpose.
- ✗ **DO NOT** allow the load to swing during lifting.
- ✗ **DO NOT** allow the load to drop suddenly. Lower load with care, ensuring that you are fully aware of the condition of the surface onto which the load is to be placed.
- ✗ **DO NOT** load crane beyond its rated capacity for each specified jib extension position as indicated on the adhesive label. The capacity of the crane reduces as the jib is extended.
- ✗ **DO NOT** position any part of your body beneath the load.
- ✗ **DO NOT** use the crane to move or transport a load other than for repositioning. The crane is a lifting device only.
- ✗ **DO NOT** apply any sideways pressure to any part of the crane during lifting or when a load is suspended.
- ✗ **DO NOT** attempt to adjust the safety valve, which has been set and sealed by the manufacturer.
- ✗ **DO NOT** use this product to perform a task for which it is not designed.
- ✗ **DO NOT** use whilst under the influence of drugs, alcohol or intoxicating medication.
- ✗ **DO NOT** climb on the crane.
- ✓ When not in use fold the crane down and store in a safe, dry, childproof area.
- ✓ This crane is designed for lifting within a garage or workshop environment.
- ❑ **WARNING!** Failure to heed safety and warning instructions may result in damage and/or personal injury and will invalidate the warranty.

2. INTRODUCTION

Professional 3tonne fixed crane with parallel legs, designed to accommodate a standard size pallet and features heavy-duty forged hook. Lowers rapidly with no-load, whilst providing smooth, controlled lowering under load conditions. Rear swivel wheels and handle make manoeuvring the crane a simple operation. Beam can be set in 4-positions, with a capacity of 2000kg at its full extension of 1870mm. Crane features two pumps one for slow, safe controlled lifting and a quick lift pump. Weighs 299kg and is suitable for workshop use.

3. SPECIFICATION

Model No:	PFC301
Height Jib Down:	1930mm
Height of Frame:	265mm
Length of Jib Position 1:	1430mm
Length of Jib Position 2:	1580mm
Length of Jib Position 3:	1730mm
Length of Jib Position 4:	1870mm
Length:	2400mm
Lifting Capacity in Position 1:	3000kg
Lifting Capacity in Position 2:	2500kg

Lifting Capacity in Position 3:	2300kg
Lifting Capacity in Position 4:	2000kg
Max. Lift Ht at Jib Position 1:	2720mm
Max. Lift Ht at Jib Position 2:	2850mm
Max. Lift Ht at Jib Position 3:	2950mm
Max. Lift Ht at Jib Position 4:	3050mm
Rear Width:	1275mm
Width Front Frame:	1300mm
Width Inside Front Frame:	1100mm

4. ASSEMBLY

- Unpack the product and check contents. Should there be any damaged or missing parts contact your supplier immediately.
- ☐ **WARNING!** Take care when removing components from packing as some parts are heavy.
- ☐ **WARNING!** Seek assistance of another person during assembly of the crane.
Refer to attached parts list.
- ☐ **WARNING!** Wedge the wheels (#8, #14) on frame (#9) to avoid any movement when assembling the crane.
- 4.1. ATTACHING THE UPRIGHT**
 - 4.1.1.** Position the upright (#10) onto the frame (#9) and secure with hex head bolts.
- 4.2. ARM ASSEMBLY**
 - 4.2.1.** Slide arm extension (#12) into arm (#11).
- 4.3. ATTACHING THE ARM**
 - 4.3.1.** Place the arm assembly (#11, #12) over the top of the upright (#10).
 - 4.3.2.** Secure in place with hex head bolt and locking nut.
- 4.4. ATTACHING THE HYDRAULIC UNIT**
 - 4.4.1.** Place the lower pivot boss, on the hydraulic unit (#15), between the inner stiffening plates on upright (#10).
 - 4.4.2.** Align the holes and insert the pivot pin and secure with circlips.
 - 4.4.3.** Position the ram pivot boss within arm (#11), align the holes and insert the pivot pin and secure with circlips.
- 4.5. ATTACHING THE HANDLE**
 - 4.5.1.** Position the handle (#16) between the outer stiffening plates on upright (#10) and secure with hex head bolts and nuts.
- 4.6. ATTACHING THE PUMP HANDLE**
 - 4.6.1.** Screw the pump handle (#2) into the desired handle socket assembly (#3, #4).
- 4.7. BEFORE FIRST USE**
- 4.8.** Before operating the fixed frame crane, purge the hydraulic system, in order to eliminate any air that may have accumulated during transit. Open the release valve (#6), by turning it anti-clockwise and pump the handle several times. Fully close the release valve by turning clockwise.

5. OPERATION

5.1. LIFTING A LOAD

5.1.1. Screw the pump handle (#2) into the desired handle socket assembly (#3, #4) and pump the handle.

NOTE: Use the manufacturers recommended lifting points when lifting an engine.

5.2. LOWERING THE LOAD

5.2.1. To lower the load, slowly turn the release valve (#6) anti-clockwise.

5.2.2. When the load has been fully lowered turn the release valve clockwise until fully closed.

NOTE: The fixed frame crane is fitted with a safety device that automatically controls the speed of decent relative to the load.

5.2.3. After use ensure that the crane is fully retracted.

6. MAINTENANCE

- 6.1. NOTE: Maintenance and repair must only be carried out by qualified person. Contact your Sealey stockist for details.
- 6.2. When the fixed frame crane is not in use, the hydraulic unit ram must be fully retracted to minimise corrosion. Remove the handle to inactivate the fixed frame crane.
- 6.3. Lubricate all moving parts at regular intervals.
- 6.4. Always keep the fixed frame crane clean, dry, and protected from harsh conditions.
- 6.5. Should you need to replace the oil, ensure the hydraulic unit ram is fully retracted. An excess of oil will render the fixed frame crane inoperative.
- Use only appropriate Sealey hydraulic jack oil (Sealey Part Number: HJO500MLS/HJO5LS). DO NOT use brake fluid.
- Purge the system to remove any air.
- 6.6. Check your model parts information for spares.
- 6.7. When not in use store in a safe, dry clean, childproof location.

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 oil into an approved container and dispose of the product and the oil according to local regulations.



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids 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 36 months from purchase date, proof of which is required for any claim.

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References

- [Sealey - Leading Professional Tool & Workshop Equipment Supplier](#)