

Protech Machinery

P30 inline Post Driver

Operator and Parts Manual



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EC DECLARATION OF CONFORMITY
Conforming to EEC Directive 98/37/EC

We Protech Machinery Ltd

Of Woolridge Farm,
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GL19 3BG

Hereby declare that the product: **POSTDRIVER**
Product Code **P30 Inline**
Serial Number series

Manufactured by the above Company complies with the required provisions of the Directive 98/37/EC

To effect the correct application of the safety requirements stated in the EEC Directives, the following standards and/or technical specification have been used:

BS EN 292-1: 1991 Safety of Machinery – Basic concepts, general principals for design – Basic terminology, methodology.

BS EN 292-2: 1991 Safety of Machinery – Basic concepts, general principals for design – Technical principals and specifications.

BS EN 294: 1992 Safety of Machinery – Safety distances to prevent danger zones being reached by the upper limbs.

BS 5401: 1990 Guide to information content and presentation of operator’s manuals provided for tractors and machinery for agriculture and forestry.

Signed.....
On behalf of Protech Machinery

Status.....

Date.....

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IMPORTANT NOTICE

Please read this manual before fitting or operating this machine. Whenever any doubt exists please contact Protech Machinery for assistance.

Introduction

Dear customer,

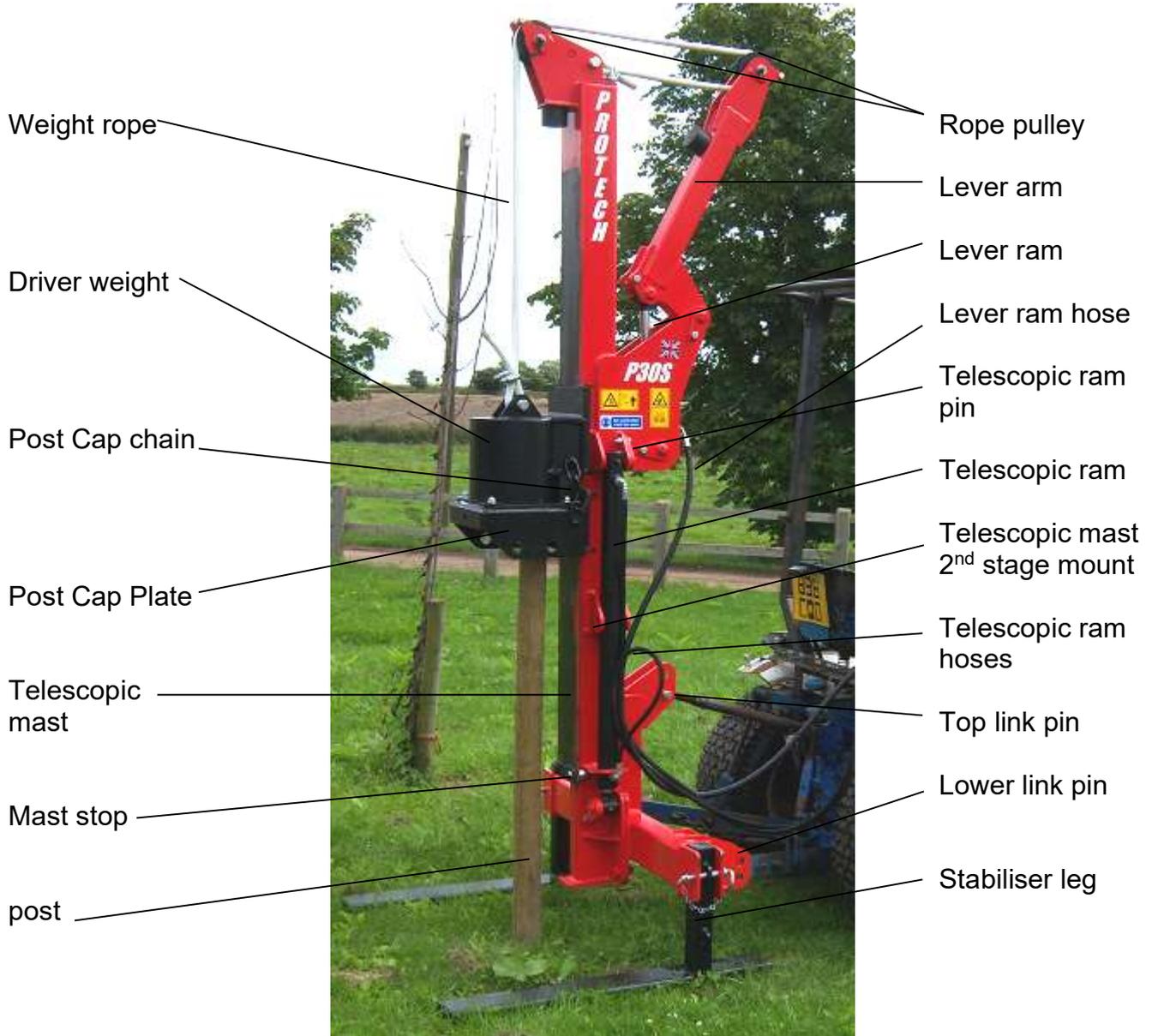
Thank you for purchasing a Protech P30 Inline Post Driver. Protech machinery Ltd has produced this User Guide to assist and help you to get the most from your post driver.

This manual is line with the relevant Health and Safety regulations to assist you with operating this machinery without harm to yourself.

You should be aware that any person operating this machine with your permission must be given adequate guidance and information to allow him or her to use the machine safely.

Where as every effort has been made to ensure the Post Driver conforms to Protech policy of quality, the machine cannot be expected to withstand abuse caused by misuse and negligence by the operator.

Product Specification



| | |
|------------------------|------------|
| Total Weight | 350kg |
| Min Tractor Horsepower | 15 HP |
| Max oil flow | 50L/MIN |
| Oil pressure | 130 bar |
| Linkage type | Cat 1 or 2 |

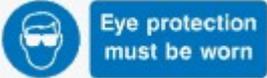
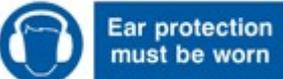
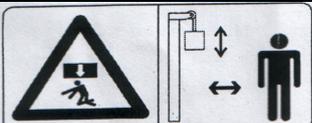
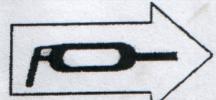
Safety Rules

| | |
|---|---|
|  | <p>Whenever possible, warning Pictograms {Labels without words} or warning labels are used on both the machine near the point of danger, and in this user manual near the relevant instructions</p> |
|  | <p>Before fitting the Post Driver to the tractor, it is the operator's responsibility to ensure that the Tractor front counterweights, if fitted, are adequate to ensure the stability of the Post Driver in all anticipated conditions, and that the Tractor is suitable for the Post Driver.</p> |
|  | <p>Before using the Tractor, check that it is in correct working condition, with correct fluid levels and correct tyre pressure.</p> |
|  | <p>Only the operator must control the Post Driver, Spectators must be kept away from the machine at all times.</p> |
|  | <p>The post cap must be used to hold posts at all times. Under no circumstances should the post be held manually while operating the Post Driver.</p> |
|  | <p>Before using the Post Driver, test the hydraulic system for leaks. If a small leak is obvious, check the location using a piece of cardboard. Small high pressure leaks can penetrate the skin which need medical attention.</p> |
|  | <p>During maintenance or adjustments:</p> <ul style="list-style-type: none"> • Ensure that the weight is fully down, with the rope relaxed. • Ensure that the hydraulic pressure is released. • Ensure that the Tractor engine is switched off and the Tractor handbrake is secure on. |
|  | <p>During Transport ensure:</p> <ul style="list-style-type: none"> • That the weight is fully down • That the Post Driver is carried as low as possible on the tractor linkage. • That the Tractor check chains and stabiliser bars are adjusted to give minimum swinging motion. • Always drive at a safe speed and in complete control of the vehicle. <p>When working on sliding ground, it is far safer to drive up and down rather than across the slopes.</p> |

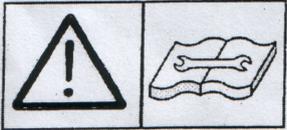
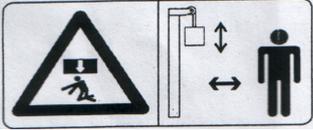
| | |
|---|--|
|  | Always check for worn hydraulic components. Any damaged rope must be replaced before failure occurs – and must be a certified Protech replacement. |
|  | No mast supporting components must be moved until the mast is securely held in the vertical position. |

Label Identification

Where possible, warning labels are used both on the machine near the point of danger and in this user Manual.

| | |
|---|--|
|  | <p>Standard Triangle to indicate Alert/Warning</p> |
|  | <p>Warning read Product Manual</p> |
|  | <p>Warning danger area from swinging mast</p> |
|  | <p>Warning danger of feet being crushed.</p> |
|  | <p>Warning eye protection must be worn</p> |
|  | <p>Warning ear protection must be worn</p> |
|  | <p>Warning Danger of falling weight</p> |
|  | <p>Warning Danger of overhead cables</p> |
|  | <p>Lubrication Point</p> |
|  | <p>Lifting point</p> |

Safe use of post driver

| | |
|---|---|
| <p>1.</p>  | <p>Before the Post Driver is used, ensure that every single person who works with or works close to the post driver reads and understands this manual.</p> |
| <p>2.</p>  | <p>Ensure that all Personnel working near to the post driver must wear protective clothing, I.e. Eye and Ear defenders, strong safety boots and gloves.</p> |
| <p>3.</p>  | <p>There is a danger of injuring feet under the foot, so no person must be in this area when the Post Driver is raised on the Tractor Linkage.</p> |
| <p>4.</p>  | <p>There is a danger from crushing under the falling weight. No person must be near the post when the weight is falling. Never put a hand on top of the post under any circumstances.</p> |
| <p>5.</p>  | <p>Be aware of overhead cables</p> |
| <p>6.</p>  | <p>There is a danger the beam swinging round and creating a trapping zone, no person must be in this area.</p> |

7. Reverse the Tractor to the Post Driver and attach the lower link arms to the link brackets on the Post Driver. Fit the supplied pins and securing linch pins.
8. Fit and adjust the Tractor top link (not supplied with machine) to bring the post driver mast vertical.
9. Adjust the Tractor link arm stabilisers to centralise the Post Driver and reduce excessive lateral sway.
10. Connect the lever ram hose to the Tractor hydraulic service

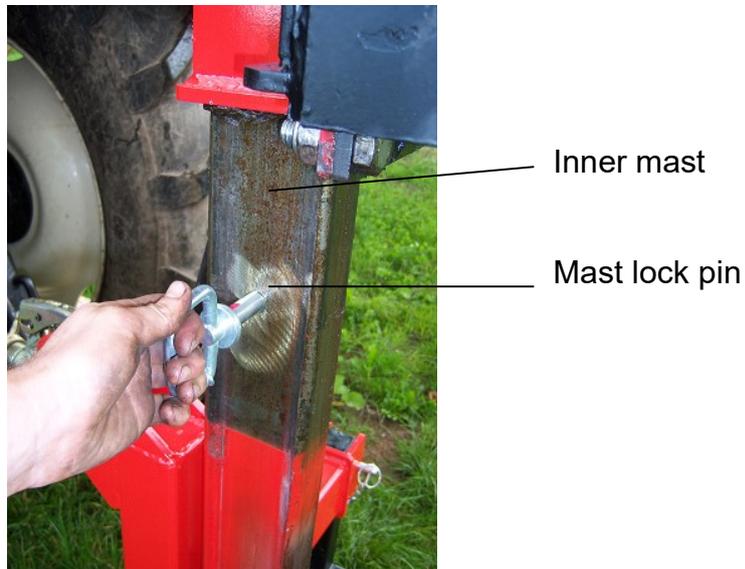
11. Connect the Telescopic ram hoses to the Tractor hydraulic service.
12. For the first use of the post driver, carefully raise and lower the weight several times and operate the telescopic mast ram to clear any air that might be trapped in the hydraulic system.
13. Manually start a post in the desired location so it becomes self supported. Make sure the tractor and post driver are at a safe distance away from the manual process.
14. Make sure the Post Cap chain on both sides of the Post cap is hooked onto the driver weight and secured with lynch pins. Then drive the tractor and post driver into position with the weight and post cap raised a short distance as to clear the top of the post. Never ever put your hand on top of the post cap plate or underneath the driver weight.
15. Depending on the post height operate the telescopic mast ram to raise the mast to clear the post.
16. Once in position fully lower the post driver on the tractors linkage until the feet are resting securely on the ground
17. Carefully lower the post cap and driver weight onto the post and release the post cap plate by unhooking both post cap chains.
18. With all persons at a safe distance from the post driver, raise the driver weight then move the Tractor valve to exhaust the system, allowing the weight to fall to hit the post
19. Raise and drop the weight until the driven position of the post has been achieved.
20. Never drop the weight with the post cap resting on the mast stop. This will cause damage to the machine. Always lower the telescopic mast first to give distance (minimum 300mm) between the post cap and mast stop
21. Once at the driven position then connect the post cap back onto the driver weight using both post cap chains and secure with lynch pins. Carefully raise the driver weight and cap plate off the post using either the lever ram or telescopic mast ram. Then drive the tractor and post driver away from the post. Once clear of the post fully lower the telescopic mast and lever ram. Do not drive around with the driver weight raised up in the air.

NEVER PUT HANDS ON TOP OF THE POST OR UNDER ANY CIRCUMSTANCES.

2nd stage Telescopic Mast

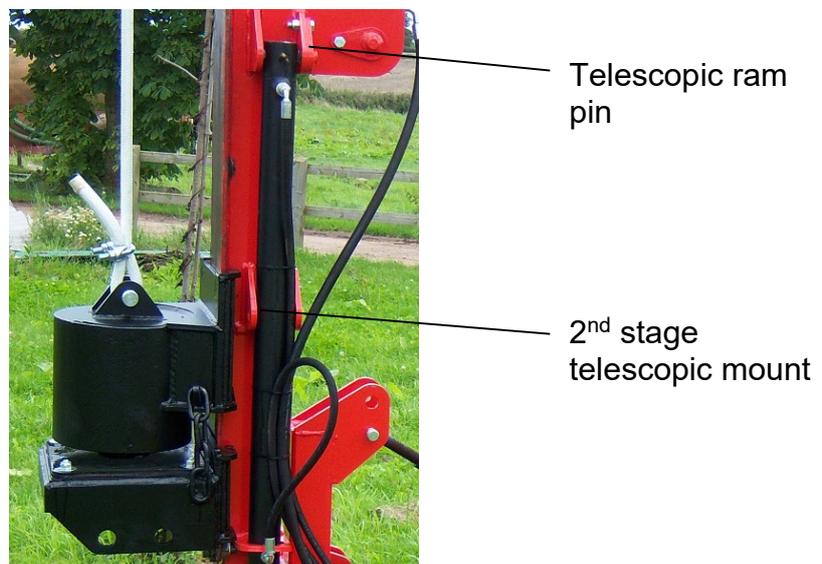
This position is only used for tall posts (10ft posts) such as for deer fencing

1. fully raise the telescopic mast, then fit the mast lock pin through the inner mast hole and secure with the lynch pin.



if there are multiple holes in the inner mast then always use the uppermost hole.

2. Carefully lower the telescopic mast onto the pin just enough to carry the weight of the mast. Do not power down onto the pin.
3. Turn off the tractor and operate the telescopic ram to relief any pressurized oil. Then remove the telescopic ram pin. Restart the tractor and retract the telescopic ram to align with the 2nd stage mounting holes. Never ever use your finger to align the holes. Once the holes are aligned re fit the telescopic ram pin.



raise the telescopic mast and remove the mast lock pin. The post driver is now ready for use. To adjust back to the 1st position apply the same procedure. Never remove post driver from the tractor with the mast in the 2nd stage position.

Transportation of the Post Driver.

Always lower the weight and release any hydraulic pressure

Always carry the Post Driver on the Tractor Linkage as low as possible but without hitting the ground

Lower the mast by fully closing the telescopic ram.

Always transport the post driver with the mast in the 1st stage.

Storage of the Post Driver

Where possible, store the Post Driver away from areas that have public access

Store the Post Driver on level, stable ground.

Lower the weight and release any residual hydraulic pressure.

Store the hydraulic hose in a clean, secure place.

The Post Driver must be stored in a position to be easily reconnected to the tractor.

Maintenance of the Post Driver

Daily

Check weight rope for any signs of wear. If in doubt, change the rope.

Check hydraulic hoses for any signs of wear. If in doubt change the hose.

Grease rope pulleys.

Apply grease to the face of the telescopic mast and inner mast

Weekly

Check the hydraulics for leaks

Grease all arm pivots

Check the rope pulleys turn freely

Check all pivots for wear

