

PAD04/05/06 - User MANUAL

4x4 Post Driver LLC
4x4PostDriver.com



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General Information

Overview

Thank you for purchasing a post driver from 4x4PostDriver.com. This post driver has been designed to drive 4x4 posts into the bottoms of rivers or lakes for making docks. A pneumatic cylinder does all of the heavy lifting which results in very little effort required by the operator. The unit can be operated off a standard air compressor with as little as 60 psi available.

We have done our best to produce a high quality, easy to use product at a reasonable cost that will help you get your project done with as little effort as possible. The PAD04/05/06 will impress you with its ease of use, durability, and value.

This user manual provides you with important information about your post driver. It also points out some precautions which should be taken to ensure proper operation, long service life, and personal safety while using.

Technical Assistance

While this manual should answer most questions and concerns, feel free to contact us at any time if you have any additional questions, comments, or issues that need to be resolved.

We can be contacted at:

4x4PostDriver@gmail.com

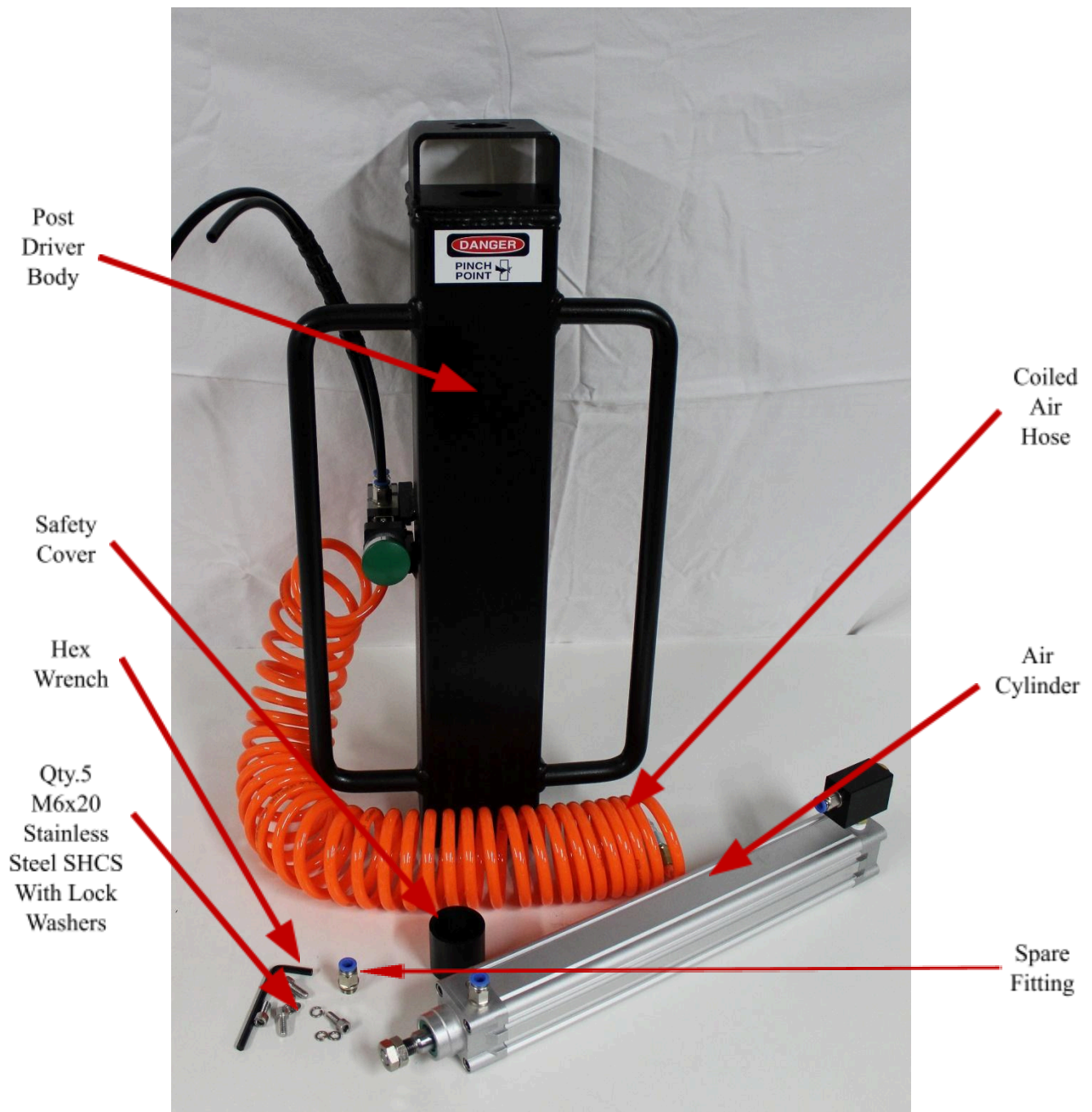
We would enjoy hearing any positive feedback about our product and hope that you take the time to submit it on our website www.4x4PostDriver.com under Testimonials.

Un-Packing



Carefully inspect the body of the post driver for burrs and/or sharp edges. This unit is prepared with a durable high gloss finish to prevent rust but sometimes this process produces burrs. We hand inspect every unit prior to shipping and remove any problems that we come across, but it is the owner's responsibility to do a thorough inspection before field operation.

Unpack the unit and make sure you have all the following:



Assembly

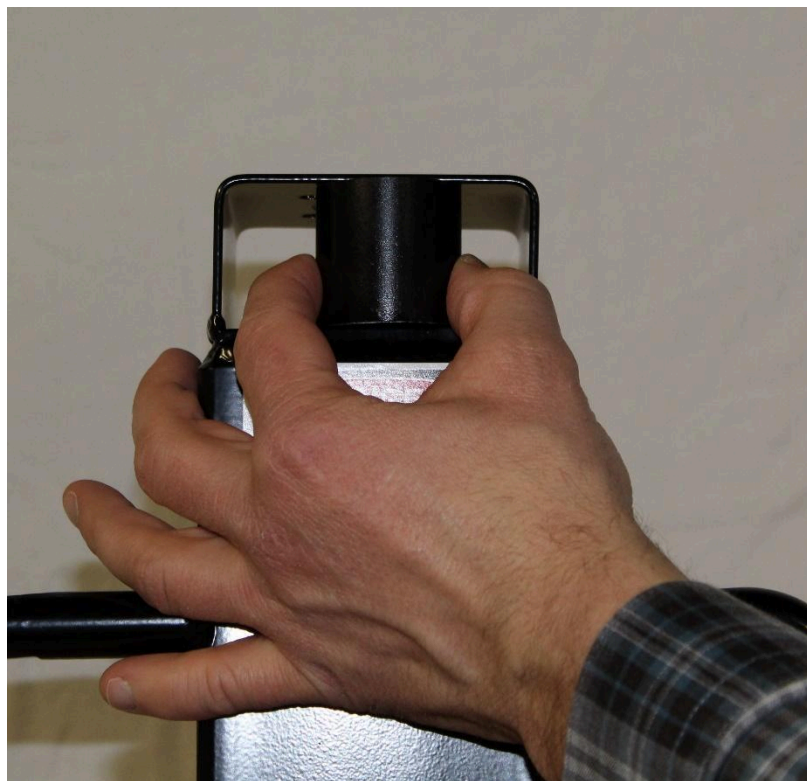


Do not connect the unit to an air source until the assembly process is completed.

Begin by placing the post driver body on an appropriate work surface with adequate lighting. We recommend having someone available for assistance.



Insert the Safety Cover as shown. Sometimes it will be easier to insert from one side or the other.



Place the air cylinder into position making sure the fittings are facing towards the push button valve of the post driver



With a lock washer on each screw, hand-thread all four of into the air cylinder.

Using the supplied Hex Wrench tighten all four screws. These screws can work loose over time, so they must be periodically checked. A thread-locking adhesive can be used on these as well.



Recheck screw tightness
before each use



Finished product should look like this. Connect the two air tubes and the assembly is complete.

Finally connect the two airlines, and thread in the exhaust muffler and your assembly is complete.



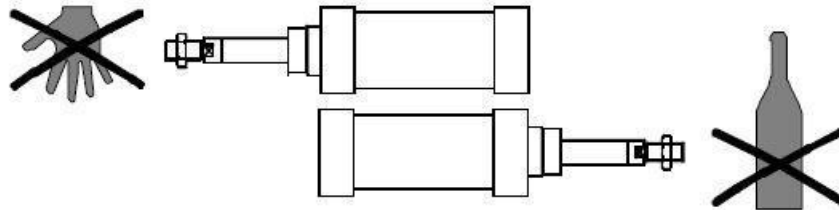
Operation

A video detailing the operation of the unit is available on our website at: www.4x4PostDriver.com

Safety



The pneumatic cylinder that comes with this device is very powerful and capable of serious injury. Operating at 90 psi, the cylinder can produce over 175 pounds of force. Do not allow any objects to cross the operating path of the cylinder. Always disconnect the air source before servicing.



Always wear safety glasses and hearing protection while operating this unit.



Keep bystanders, children, and visitors away while operating the post driver. Distractions are liable to result in injury.

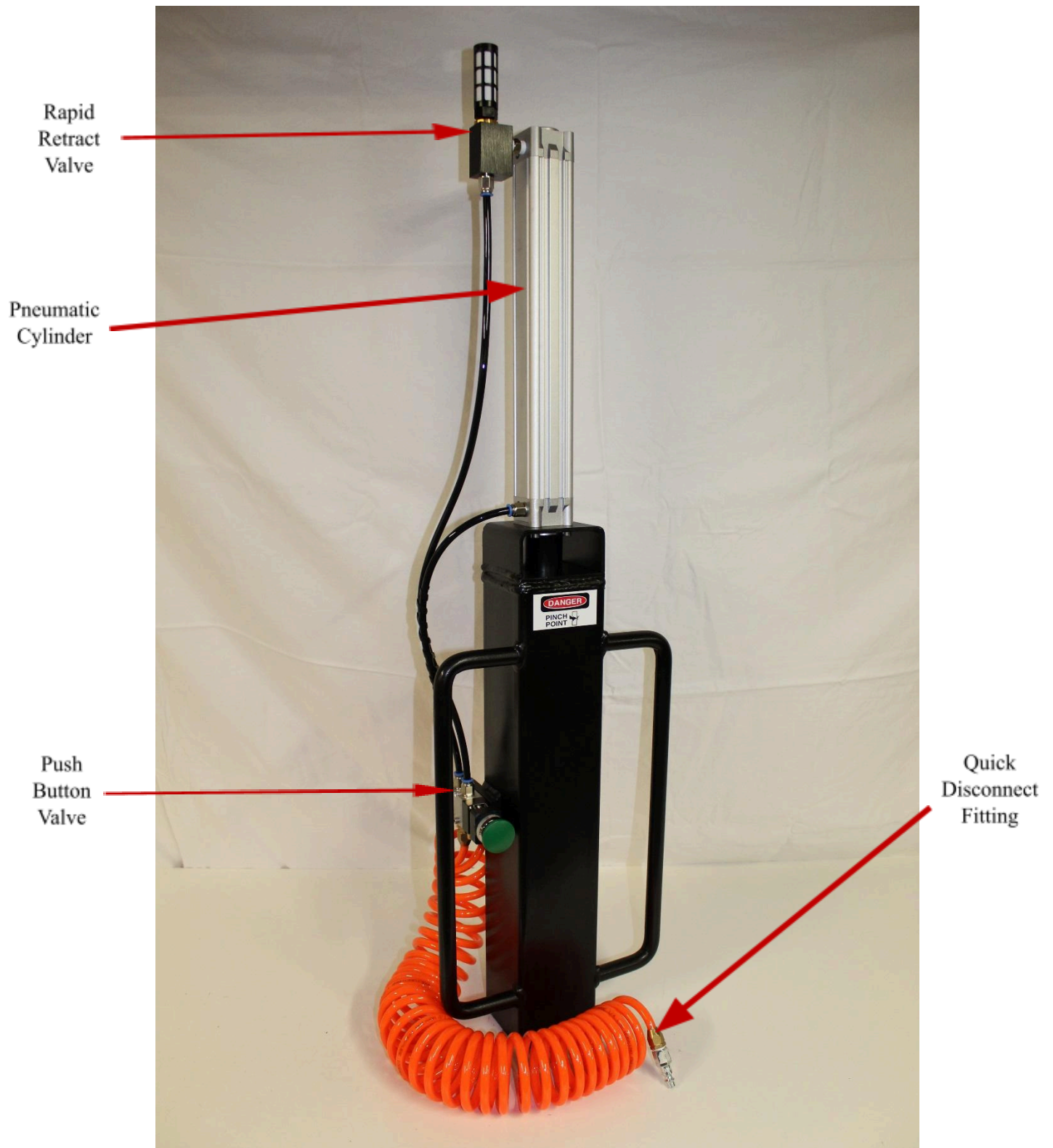


Never connect to an air source that can exceed 130 psi. Over pressurizing the post driver may cause bursting, abnormal operation, breakage of the tool, or serious injury.



Never use oxygen, carbon dioxide, or any bottled gas as an air source for this tool. Such gases are capable of explosion and serious injury.

System Description



Posts

It is important to cut a wedge onto the end of the 4x4 pressure treated posts so that they will drive easier into the ground. This can be accomplished with a chainsaw, a radial arm saw, or a circular saw. Also, it is a good idea to measure your posts before you start driving. Most 4x4s will measure 3.5" x 3.5" but every now and then you will come across an oversized post. This could prove difficult to drive due to a tight fit inside the PAD04 post driver.



Getting Started

After the unit is fully assembled, you can connect to an air source and test the operation. When you press the green button, you should hear the air cylinder extend. When the button is released, you should hear the air cylinder quickly and quietly retract.

This opening is what goes over the 4x4 post and is also where the air cylinder travels. Never reach into this opening for any reason. The pneumatic cylinder is very powerful and capable of serious injury.



To avoid serious injury, keep hands and arms clear of this opening.

Field Use

Operating the unit in the field couldn't be easier. Once the post driver is placed over the post, simply push the green button and the unit will automatically raise. Release the button and the unit will fall and strike the post. After a couple of strikes, most users quickly get the timing down and can operate it like a pro.



That's it. You are now ready to get in the water and start building your dock!

Trouble Shooting

Air Cylinder Does Not Operate

- Check main air pressure to ensure a minimum of 60psi is available (90psi for PAD05/06)
- Inspect post driver tube for obstruction
- Remove air cylinder from post driver for inspection
- Replace Push Button Valve

Air Cylinder Bangs on Extend or Retract

- Air pressure set too high.
- Cushioning screw not adjusted properly. Turn clockwise for more cushioning.

Air Cylinder Does Not Retract All The Way

- Cushioning screw not adjusted properly. Turn CCW for less cushioning.



Spare Parts

A complete list of spare parts is available for sale on our website at www.4x4PostDriver.com

Unit Specifications

Product Weight	PAD04 - 26.5 lbs. / PAD05 – 38 lbs. / PAD06 - 43 lbs.
Compressed Air Requirements	PAD04-60psi min./PAD05/06–90 psi min. 116psi max. for both
Air Quality Requirements	Filtered Air in accordance with ISO 85731:2010 [7:4:4]
Air Compressor Requirement	Recommended at least 2.5 SCFM capability
Temperature Range	32°F - 140°F
Product Dimensions Assembled	41" x 11" x 5"
Cylinder Service Life	Tested to over 32,000 cycles with only minor signs of wear