



PD-110™ / PD-140™ PD-200™

AIR-OPERATED POST DRIVER OWNERS MANUAL



MODELS: 070593, 070594, 070746, 070758

TAKE SAFETY SERIOUSLY

This book contains important safety information.
Please read it carefully.



Your safety, and the safety of others, is very important. The proper and safe use of your Rhino® post driver is an important responsibility and should be taken seriously.

Keep this owner's manual available, so you can refer to it at any time. This owner's manual is considered a permanent part of the post driver and should remain with the post driver if resold.

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To help you make informed decisions about safety, you will find important safety information in a variety of forms, including:

- Safety Labels on the post driver
- Safety Messages Preceded by a safety alert symbol and one of three signal words, DANGER, WARNING, or CAUTION. These signal words mean:



Immediate hazards that will result in severe personal injury or death.



Hazards or unsafe practices that could result in personal injury.



Hazards or unsafe practices that could result in injury, product or property damage.

- Safety Headings such as IMPORTANT SAFETY INFORMATION.
- Safety Section such as POST DRIVER SAFETY.
- Instructions how to use this post driver correctly and safely.



The Rhino® PD-110, PD-140, and PD-200 Post Drivers are designed to drive many types of post and other like items into the ground. (See Chart on left) Uses, other than those intended, can result in injury to the operator, others near by, or damage to the driver and to the surrounding area may result as well.

This post driver is intended for use by professional installers. Never allow untrained personnel or children to operate this tool.

Most accidents can be prevented if you follow all instructions in this manual and on the post driver. The most common hazards are described in the following text, along with the best method to protect yourself and others. If you or any operator doesn't understand any of the instructions, call Rhino at (309) 853-5555 or toll free 866-707-1808. In Europe contact Eurogate Int. (0031) (0) 523 638286 or (0031) (0) 610 502607. It is **VERY IMPORTANT** to understand that your driver is a very powerful machine.



DANGER

AVOID SERIOUS INJURY OR DEATH, READ BEFORE USING YOUR POST DRIVER!



DANGER

UNDERGROUND UTILITIES: Be absolutely sure you know location of all underground utilities before driving so you can avoid hitting them while driving a post into the ground. Utilities include but are not limited to Electric, Gas, Telephone,

Water, Sewer, TV Cable, Lawn Sprinklers, Etc. Hitting an underground utility could be **EXTREMELY DANGEROUS** for the operator and others.



DANGER

AIR PRESSURE: It is strongly recommended that you use a Filter-

Regulator-Lubricator combination with your

Rhino Air Operated Post Driver. The use of the pressure regulator is required for safety. Set the pressure regulator at 100 PSI (7 kg/cm²). Higher air pressures will not make your driver perform better. High air pressure could cause your post driver to lift off and fall from the post causing serious injury or death. **DO NOT** tie down the throttle valve so it will not shut off when released. If the throttle valve does not stop the unit immediately when released, repair or replace it. **Slowly squeeze the air throttle valve lever to start the driver.** Opening the throttle valve slowly will prevent a violent start of the driver. Never use anything to keep the throttle valve lever in the open position other than the operator's hand. For safety, the valve must close, stopping the drive, when the operator releases the valve lever.



DANGER

CHUCK SIZING: A chuck or chuck adapter that is too large for the post being driven may contribute to a condition which would

allow the post driver to fall from the post causing serious injury or death. Do not use a chuck or chuck adapter that is too large for the post being driven. The post should be loose in the chuck

or chuck adapter with a minimum of 1/8" (3 mm) clearance and not over 5/8" (15.9 mm) clearance. The post driver piston should hit the post as squarely as possible. If the fit is too loose, damage may be caused to the driver, chuck, or chuck adapter causing them to fail. Chucks and chuck adapters wear out and should be replaced as needed. Inspect your post driver's chuck and chuck adapters frequently. If you are in doubt, return your chuck, chuck adapter, or any other part to the factory, freight prepaid, for a free inspection.



WARNING **SAFETY EQUIPMENT:** Always wear the proper safety equipment when operating the post driver. This includes hard hat, safety glasses, safety shoes, ear protection, back supports, anti-vibration gloves, and any other safety equipment for the operator and other personnel near the driver as advised by, ANSI, NIOSH, OSHA, or any other safety regulatory agency, or the employer or the owner of this post driver.



WARNING **SAFETY CHECKS:** Check your driver daily for loose bolts, cracks, bulges or abnormalities in welds, castings, chuck or chuck adapters, top cover, piston, air line, or any other part. Do not repair any parts. Immediately replace excessively worn or defective parts with new parts. Do not run the unit with damaged or defective parts. If you are in doubt, return your driver, chuck, chuck adapter, or any other part to the factory, freight prepaid, for a free inspection.



WARNING **REMEMBER ALWAYS PUT SAFETY FIRST!** Do not operate the post driver if any unsafe conditions are present.



CAUTION Do not put anything but a post into the chuck on your driver.



CAUTION Do not operate your post driver unless it is on a post to be driven. Operation of the driver without it driving on a post could damage it.

WARNING LABELS: If your post driver's warning label is marred or destroyed, replace it immediately. Simply call Rhino Tool Company and we will send you a new warning label at no charge.

LUBRICATION: YOU MUST OIL YOUR POST DRIVER WHILE IT IS OPERATING. If you are using a Rhino® Filter-Regulator-Lubricator, set the lubricator on your FRL in the air line to the post driver so it will deliver approximately 10 drops of oil per minute. Preferably the Filter-Regulator-Lubricator should not be separated from the driver by more than 25 ft (7.62 m) of hose. Make certain that any new air hose between the Filter-Regulator-Lubricator and the post driver has been thoroughly lubricated. The procedure for lubricating the hose is as follows: Remove the air hose from your post driver and **AFTER SECURING THE AIR LINE SO IT CAN'T WHIP AROUND TO INJURE SOMEONE**, open the lubricator wide open so that a

steady stream of oil will run into the air stream when the throttle valve has been activated. Actuate the air throttle valve and run the air through your hose until an oil film is noticeably coming out of the air hose where it connects to the driver. Periodically check to make sure your driver is receiving oil. Air and oil will be exhausted through the chuck. If in doubt, remove the air line from the driver and using the same procedures stated previously check to see if an oil film is being exhausted from the hose end that connects to the driver. If oil is coming out of the hose, reconnect the air hose to the driver.

Use SAE 5 wt. oil in cold weather, SAE 10 wt. oil for mild weather up to 80°F (27° C) and SAE 20 wt. oil for hot weather. We recommend non-detergent oil to prevent degradation of the air hose. Do not use synthetic oil as it impedes atomization of the oil in the airstream.

AIR SUPPLY: You must have an adequate supply of clean air at the proper pressure. Air supplied to your post driver must be filtered. Drain water from the air compressor air tank prior to use. It is recommended that you use a Filter-Regulator-Lubricator to help remove water, rust and other particulate from the air supply. It will greatly increase the life of your post driver and decrease maintenance costs.

AIR REQUIREMENTS

PD-110 and PD-140: 64 CFM (1.81 m³/min.) @ 100 PSI (7 kg/cm² @ 6.9 Bar). PD-200: 72 CFM (2.04 m³/min.) @ 100 PSI (7 kg/cm² @ 6.9 Bar)

AIR HOSE: It is recommended that you use a 3/4" (19.05 mm) double braid air hose with an oil resistant lining to supply air to your post driver.



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