

Robotool Pole Pick

Pole Extraction Tool

Operations Manual

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READ THIS FIRST:

The Robotool Pole Pick is designed for removal of broken poles at or below ground level by experienced linemen practicing all applicable safety practices. Use of these safety procedures and practices is essential. This manual assumes the user will be familiar with these practices as well as associated terminology. Consult an expert in this area if you are unsure. A line truck or digger truck is used in conjunction with this tool. The truck can be replaced with mobile or stand alone systems (a.k.a. "backyard machines").

WARNINGS:

**CAUTION !!!
RISK OF SEVER INJURY OR DEATH
FOLLOW ALL INSTRUCTIONS**

THIS PRODUCT SHOULD ONLY BE USED BY EXPERIENCED LINEMEN PRACTICING ALL APPLICABLE SAFETY PRACTICES.

ALWAYS FOLLOW THE APPLICABLE LAWS, RULES, REGULATIONS, AND COMPANY POLICIES.

NEVER STAND NEXT TO OR OVER TOP OF THE ROBOTool POLE PICK WHILE IT IS UNDER STRAIN OR LOAD.

ALWAYS USE THE REQUIRED SAFETY EQUIPMENT.

NEVER PERFORM ANY PROCEDURE WHILE UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.

SAFETY EQUIPMENT:

THESE ITEMS ARE A MUST WITH THE USE OF THIS TOOL.

Safety Glasses

Hard Hat

Leather Lineman Gloves Or The Equivalent



INSTRUCTIONS

The Pole Pick is designed for removal of broken poles at or below ground level. Always use the proper safety gear (see related section).

1. The Pole Pick is used in conjunction with a line truck (a.k.a. “digger truck”). The truck can be replaced with mobile or stand alone systems (a.k.a. “backyard machines”). Always use qualified personnel to operate the truck.

2. Be sure the outriggers are down and grounds are out. Unrack the boom and auger (use 18 inch auger). Remove the auger off of the Kelly Bar. Install the AB Chance adapter (this adapter is the same one that is used to screw in triple helix anchors). You must have a Kelly Bar / Adapter to use the Pole Pick. A Kelly Bar that is used for driving square drive anchor rods with diameters of 1-5/8” to 1-3/4” diameters is adequate.

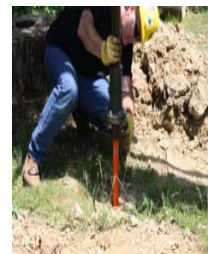


3. Pin the Pole Pick into the AB chance adapter. One end of the adapter fits into the Kelly Bar and the other end fits onto the Pole Pick. Swing the boom of the truck with the Pole Pick attached over top of the pole that is to be removed from the ground. Position the tip of the Pole Pick such that the drill bit is positioned at or near the center of the pole.



4. Screw the Pole Pick into the broken pole by rotating the load line of the boom with the line truck until the full length of the threads are within the wood. **NOTE:** *It may be necessary to go even deeper depending on the condition of the wood.*

NOTE: after the threads engage the wood (also the drill bit) and while rotating, make sure to apply downward pressure as needed to insure the pole pick is always moving into the wood. Do not allow the pick to rotate without moving downward.



5. Once the Pole Pick is fully inserted, unpin the AB Chance Adapter and relocate the boom to a safe location. Attach the cylinder to the top of the pole pick and insert the pin and clip to hold it in place. Then attach the delta support bracket onto the top of the cylinder using the pin and retaining clip. Then attach the hydraulic lines from the line truck to the quick release disconnects on the cylinder and use the hydraulics to fully extend the piston to raise the cylinder.



6. Attach the 3 legs to the delta support bracket using the pins and retaining clips. Then extend the legs downward to make contact with the ground (NOTE: use outrigger pads between the ground and the 3 legs).



7. At this point the assembly is ready to make the first pull. Stand clear of the assembly at a safe distance and engage the hydraulic pressure so as to raise the pole out of the ground.



DO NOT APPLY EXCESSIVE PRESSURE BEYOND THE CAPACITY OF THE LINE TRUCK AND THE PSI RATING AS MARKED ON THE CYLINDER. IT MAY BE NECESSARY TO DIG A RELIEF HOLE IF THE POLE DOES NOT EASILY REMOVE.

8. After the pole is raised with the cylinder and the cylinder is fully compressed, repeat the process to continue removing the pole by raising the cylinder so the piston is fully extended, lowering the legs, and making the next pull, etc. Continue this until the pole is far enough out of the ground so that it can be fully removed with the boom of the line truck and choker chain (or cable sling). (NOTE: It is best to not remove the pole from the ground until the pole pick is removed from the pole.)



INSTRUCTIONS

9. After the pole is removed far enough to be extracted with the boom, disengage the pole pick from the pole jack by removing the pin and retaining clip. The jack assembly can either be relocated while assembled or disassembled and relocated. At this point the pole pick is still embedded in the pole.



10. Remove the pole pick from the pole by reattaching it to the Kelly Bar with the AB Chance adapter. Then rotate the load line of the boom with the line truck until the pole pick is fully removed. Then use a choker chain (or cable sling) and boom to remove the pole from the ground.



11. The pulling eye adapter can also be used to remove the pole pick from the pole in the event the pole is removed from the ground prior to the pole pick being removed. To do this, use one or two can hooks and a large pry bar to manually unscrew the pole pick. To prevent bodily injury during manual removal, make sure to avoid over exertion or strain on the back or other body parts.