



STEEL PUMP JACK SYSTEM



SAFETY AND ASSEMBLY INSTRUCTIONS

When used in accordance with instructions, this product meets

ANSI Standards

and

U.S. Department of Labor

O.S.H.A.

Regulations

WARNING! READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE USE.

Failure to comply with these instructions may result in serious injury

WORKSITE CONDITIONS

1. Ensure worksite is free of construction debris.
2. DANGER! Metal conducts electricity. Never use near any electrical current.
3. Inspect all power tools and extension cords to ensure they are not damaged. Damaged tools and cords can cause serious injury .

SPECIAL PRECAUTIONS

1. Inspect total system upon receipt and at least once each day or before each shift when in use.
2. Never use equipment with damaged, worn or missing parts.
3. Follow manufacturer's instructions when using approved components with the Werner steel pump jack system.
4. Check all parts for good condition. Lightly lubricate moving parts occasionally.
5. Acids (hydrochloric, muriatic, etc.) and caustics (caustic soda, trisodium phosphate, etc.) are corrosive to steel and can seriously affect its strength. Do not expose to corrosive substances.
6. Discard any components exposed to excessive heat or corrosive material.
7. Do not use in inclement weather or high winds. Windy conditions require extra caution. Scaffold platforms must be secured against wind uplift.
8. If people pass under or nearby, use safety screening of No. 19 gage US standard wire 1/2" mesh. Cover space between toeboard and top guard rail on all open sides and ends of scaffold platform.
9. Provide overhead protection not more than 9 ft. above the working plank or pedestrian walkway where overhead hazard exists.
10. The use of fall protection equipment is always recommended. Safety codes require guard rails and toeboards on all open sides when scaffold platform height is 10 feet or more, and may be required at lower heights, depending on the application and jurisdiction. Check applicable ANSI, OSHA, state and local codes for specific requirements.
11. If the pump jack system will be used in the absence of a wall, a four sided guard rail system must be used.
12. Safety belt, harness, lanyard and lifeline use must comply with ANSI A10.8, A10.14, and A120.1, OSHA and all applicable federal, state and local codes.
13. All equipment shall be secured to or removed from scaffold platform. Never throw or drop tools or materials to the ground.

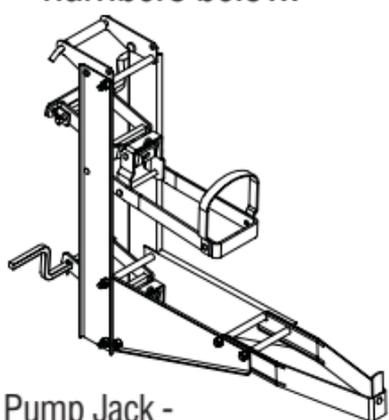
COMPATIBILITY

1. Werner steel pump jack **system components**, identified in the next section, are designed and manufactured to be used only with Werner Steel Pump Jack System.
2. It is the user's responsibility to ensure that product is functioning properly when using Werner Steel Pump Jack **system components**.

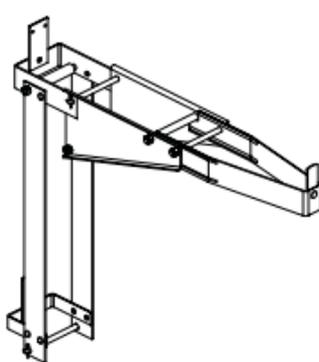
- Never replace individual pieces or parts of the **system components** unless supplied by Werner Co.
- Call Werner Co. at 724-588-8600 with any questions regarding compatibility of **system components**.

SYSTEM COMPONENTS

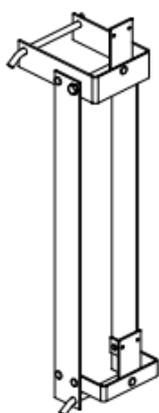
- Make sure you read and understand the compatibility section of this manual.
- Aluminum poles may **never** be used with Werner steel pump jack systems.
- See list of **system components** with model numbers below.



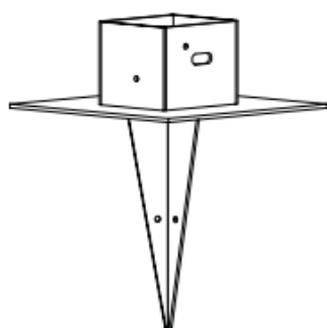
Pump Jack -
Model# SPJ-100



Work Bench/Guardrail Holder -
Model# SPJ-WB

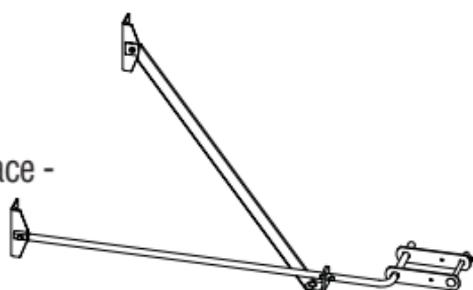


Guardrail Holder -
Model# SPJ-GRH



Pole Anchor -
Model# SPJ-PA-4

Foldable Support Brace -
Model# SPJ-SBF



Fabrication of Wood Poles:

- Wood poles must be fabricated using two 2x4's nailed together with 10d common nails. The wood used for poles shall be made of a clear, straight grained fir or construction grade pine wood, free of all knots or defects. All nails should be spaced 12 inches on center and should be staggered uniformly from opposite outside edges. The finished pole should measure 3 inch x 3-1/2 inch.
- If splices are required to extend the pole, the 2x4's must have a minimum overlap of 3 feet. Nails on each side of splice should be countersunk and spaced a minimum of 6 inches on center for a distance of 18 inches. In order to maintain full strength of pole, mending plates shall be used at every splice location. Wood poles must not exceed 30 feet in height.

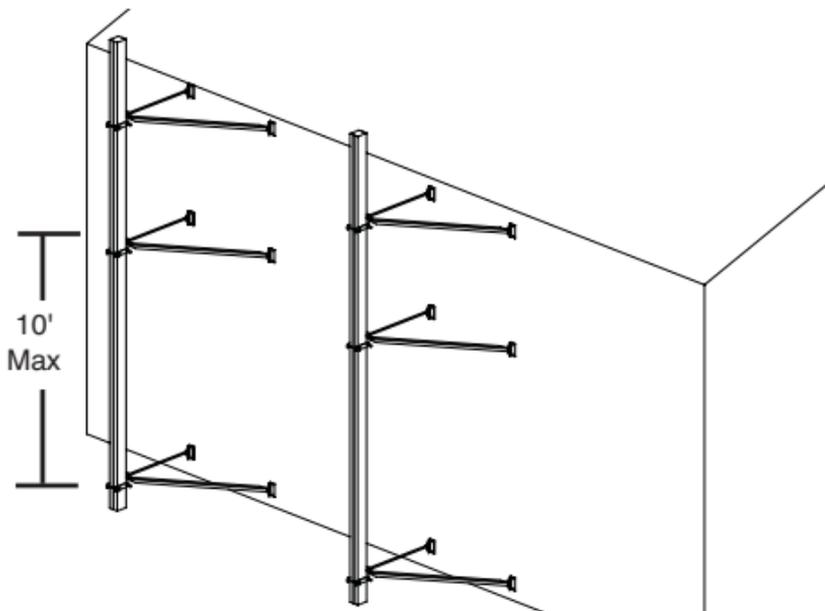
Choosing Walk Platform:

- Either wood or aluminum walk platforms can be used with the steel pump jack system.
- Wood used for walk platforms must be scaffold grade or equivalent.
- Aluminum walk platforms must be manufactured for use as a walk platform and shall not exceed

24 feet in length.

4. Ensure poles are spaced apart no more than 7 feet on center if using 2 inch nominal thickness wood walk platforms, 9 feet on center if using 2 inch undressed wood or 11 feet on center if using aluminum walk platforms.
5. Aluminum walk platforms between 12 and 24 feet in length must be supported at each end, as well as under center of walk platform. Aluminum walk platforms less than 12 foot in length may be supported only on each end.

Installation of Wood Pole to Work Wall:



1. Ensure proper numbers of poles have been fabricated and proper amount of steel pump jack components have been acquired to adhere to requirements outlined in instruction section “Choosing Walk Platform”, in order to properly support the walk platform.
2. Loosen wing nut on brace clamp bolt and slide clamp plates around top of each wood pole, ensuring seam of wood pole is facing work wall. Tighten wing nut when brace is at desired height and nail brace clamp plates to pole.
3. Position poles in desired location along work wall and secure each pole to work wall with brace at top of pole. Ensure round leg of brace is attached to work wall straight out from pole and is fastened to work wall using at least two screws with a minimum holding strength equivalent to 1/4 inch x 3 inch, type AB screws. The angle bar of brace can be fastened to either the right or the left as desired and must be fastened to work wall using at least two screws with a minimum holding strength equivalent to 1/4 inch x 3 inch, type AB screws. The two arms of the brace have been designed with 32 inch spacing to allow them to be attached to work wall on studs spaced at 16 inch centers.
4. Poles must always be erected on level ground. Stabilize bottom of pole by using either a pole anchor or by placing a level piece of wood under pole.
5. Install pole brace at bottom of pole and other locations as required. Poles must be supported by a pole brace at top, bottom and every 10 feet in between. See figure above.
6. Do not install poles on top of scaffold platforms or on roof surfaces.

Installation of Steel Pump Jack to Wood Pole

1. Place steel pump jack over wood pole with platform support facing work wall.

2. Install attachment pin and roller from hardware pack through top holes of steel pump jack.

3. Close pole latch by rotating latch up to closed position and sliding latch, such that latch tab slides through slot in upper shackle.

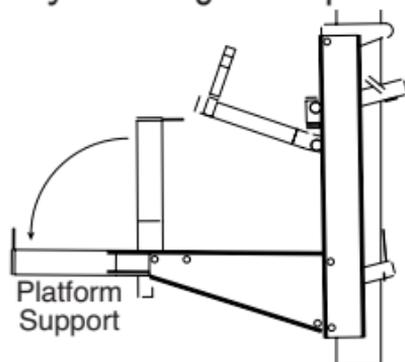
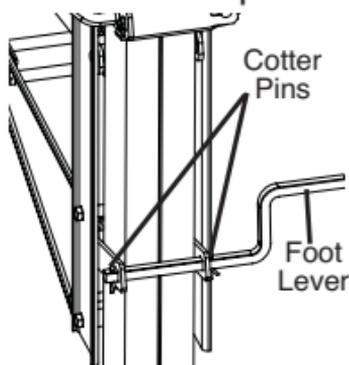
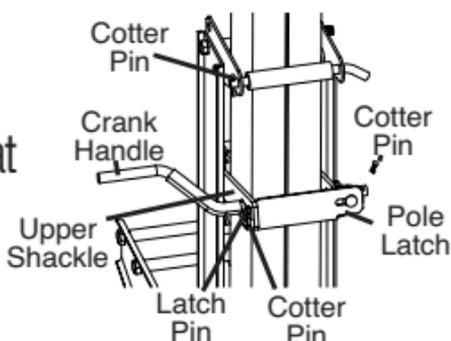
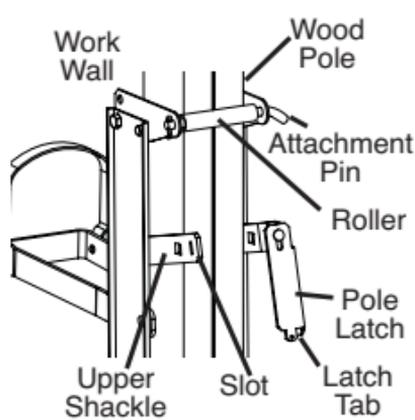
4. While facing back of steel pump jack and wood pole, install crank handle from hardware pack through left side of upper shackle, ensuring crank handle is inserted through both sets of square holes in upper shackle, as well as round hole in pole latch.

5. Secure attachment pin, crank handle and pole latch in place by inserting cotter pin through hole at end of each part and bending one leg 90°.

6. Install foot lever from either side through both sets of square holes in lower foot lever. Ensure bend in foot lever is facing upward.

7. Secure foot lever in place by inserting cotter pins through both holes in foot lever and bending one leg of the cotter pins 90°.

8. Open steel pump jack by fully extending platform support.

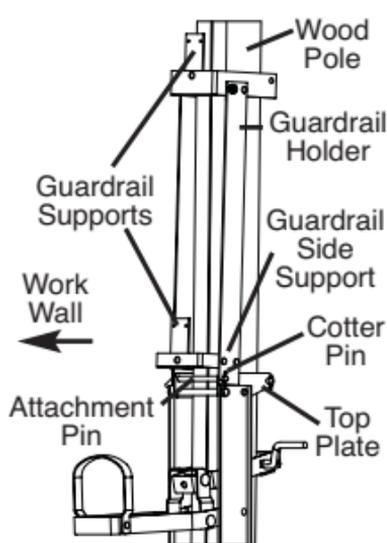


Installing Work Bench/Guardrail Holder:

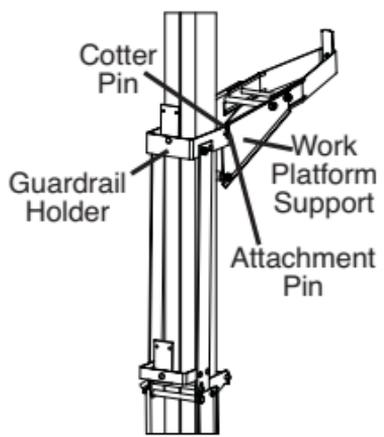
1. Place guardrail holder portion of work bench over wood pole, such that the guardrail supports are on same side of pole as work wall and guardrail supports are pointing up. Ensure side uprights of guardrail holder are resting to outside of steel pump jack top plates.

2. Install attachment pin from hardware pack through bottom holes of guardrail holder, ensuring attachment pin is inserted through both guardrail holder holes, as well as holes in top plate of steel pump jack.

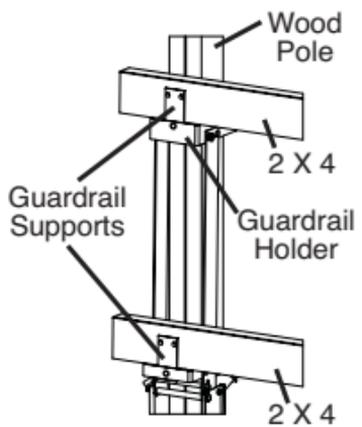
3. Secure attachment pin in place by inserting cotter pin through hole at end of attachment pin and bending one leg 90°.



- Install work platform support section of work bench by inserting second attachment pin through holes at top of guardrail holder and secure attachment pin using a cotter pin. Guardrail will ride up and down with pump jack.



- Span a single length 2x4 between each set of two pump jacks, ensuring the 2x4 is resting on top of each guardrail holder and is inserted between guardrail supports and wood pole. Secure 2x4 to guardrail supports using 6d common nails.



Repeat this step using a second single length 2x4, ensuring it is resting on the lower guardrail supports of the guardrail holder.

- In order to install guardrail holder only, follow all steps above, except Step 4.

Installation of Walk and Work Platform:

- Walk and work platforms shall overhang supports a minimum of 6 inches and a maximum of 12 inches on each end unless access is restricted to the cantilevered end. Do not load overhang. When platforms are lapped, ends must be overlapped a minimum of 12 inches. Steel pump jack platform support must be centered under overlap and walk platforms must be secured from movement. Platform overhang and overlap must meet OSHA and all applicable federal, state and local codes.
- Scaffold platform shall be secured to each pump jack to avoid movement and slippage.
- Always install pump jack system so walk and work platforms are level.
- Do not install a work platform more than 14 inches from working wall. There shall be no opening greater than 14 inches anywhere surrounding the working person.

INSTALLATION OF INTERMEDIATE BRACES TO POLE

WARNING! ANY APPLICATION OVER 10' HIGH REQUIRES THE USE OF INTERMEDIATE SUPPORT BRACES HAVING A MAXIMUM VERTICAL SPACING OF 10'. SOMEONE COMPETENT SHALL ENSURE THAT ALL BRACES ARE ATTACHED TO SOLID MATERIAL WITH ADEQUATE HOLDING POWER. A MINIMUM TORQUE OF 5 FT/LBS. SHOULD BE REQUIRED ON THE SCREW HEAD USED TO SECURE THE BRACE.

- Secure support brace to pole at required height.
- Push support brace out to a vertical surface. It is very important that the surface is vertical to ensure pump jack will not bind on pole while in use.

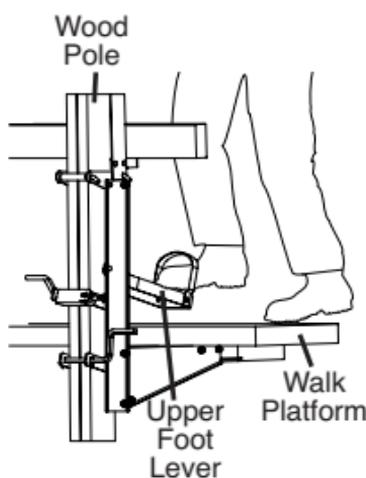
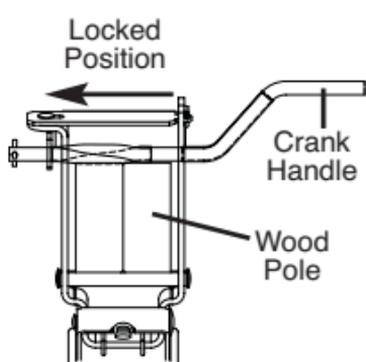
3. Fasten support brace to structure using at least four screws with a minimum holding strength equivalent to 1/4 inch x 3 inch type AB screws.

PASSING AN INTERMEDIATE BRACE

1. In order to pass a support brace that is already installed, a temporary support brace should be installed approximately 4 feet above support brace to be passed.
2. Worker should assume a position on scaffold platform which allows the first support brace to be released and reattached.
3. Release support brace from pole.
4. Once steel pump jack has been moved past the support brace, the support brace should be reattached to pole and the temporary support brace can be removed.

Raising Walk Platform:

1. Ensure crank handle is locked into position. The crank handle must not be able to rotate during use and rising of the walk platform.
2. While standing on the pump jack walk platform and facing the pole, place foot under strap on upper foot lever and pump to raise the system until walk platform is raised approximately one foot.
3. Repeat procedure with additional pump jacks in system until the desired height is reached. The maximum allowable working height is 30 feet.

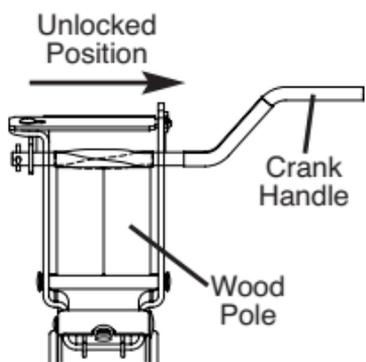


WARNING: Work must always be performed on a level platform to avoid injury.

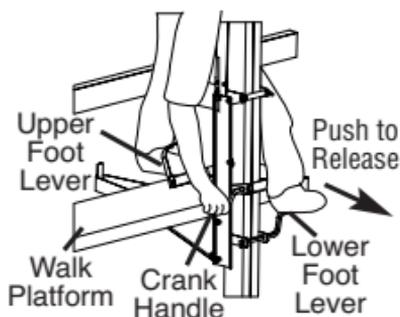
4. Return the pump jack foot lever to fully up position for use.

Lowering Walk Platform:

1. Slide crank handle to disengage from locked position. Ensure crank handle is able to rotate.
2. While standing on pump jack platform and facing pole, confirm that upper foot lever is in fully up position.
3. Depress foot lever until point of tension is reached and maintain pressure during Step 4. **(FAILURE TO MAINTAIN PRESSURE WILL ALLOW UPPER FOOT LEVER TO ROTATE RAPIDLY UPWARD AND MAY CAUSE INJURY).**
4. While holding onto pole, place foot on lower foot lever. Push to point of release and hold.



5. Rotate crank handle in a clockwise direction to lower system approximately one foot.
6. Slide crank handle back into locked position.
7. Repeat procedure with additional pump jacks in system until desired height is reached.



GENERAL USE

1. Only trained personnel shall erect and/or use this equipment.
2. Examine erected system thoroughly to ensure it is set up properly.
3. Make sure steel pump jack system installation does not violate any federal, state or local codes.
4. Never overload system! Maximum load not to exceed load capacity of lowest rated component in system. See other labels and instructions.
5. There should never be more than two people on pump jack system between any two poles.
6. Never drop or apply an impact load to system components.
7. **Do not use ladders on scaffold platform or on steel pump jacks.**
8. Do not accumulate materials or debris on scaffold platform.
9. Remove foreign substances such as mud, grease or oil from shoes and all **system components** before use.
10. Do not use ladders to climb onto or off scaffold platform unless ladder and platform are secured against movement.

PROPER MAINTENANCE, CARE AND STORAGE

1. Consult manufacturer to replace worn **system components**.
2. Always keep components clean of all foreign materials.
3. Properly support and restrain steel pump jack **system components** in transit or storage. Wear damage from vibration may weaken **system components**.
4. For additional care, use, and safety instructions, contact your employer, dealer or the product manufacturer. See additional labels on all **system components**.

WARNING! FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN SERIOUS INJURY.



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Printed in China Rev B 3/06