

June 2011

OPERATOR'S SAFETY MANUAL

SUMNER PIPE JACKS



SUMNER

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Owner's Responsibilities

NOTICE: Throughout this publication, the words ***WARNING***, ***CAUTION***, and ***IMPORTANT*** will be used to alert the user to special instructions concerning a particular operation that may be hazardous if performed incorrectly or carelessly. **OBSERVE THEM CAREFULLY!**

These “Safety Alerts” alone cannot eliminate the hazards that they signal. Strict compliance to these special instructions while performing the service plus “common sense” operation are major accident prevention measures.

WARNING Hazards or unsafe practices which could result in severe personal injury or death.

CAUTION Hazards or unsafe practices which could result in minor personal injury, product or property damage.

IMPORTANT Indicates information or instructions that are necessary for proper operation and/or maintenance.

Operator Safety Instructions

Sumner jack stands are designed to position pipe, tubing, rounds or shapes up to 1,000 lbs (450 kg) on rubber wheel and ball transfer head jacks, and 2,000 to 3,500 lbs (900 to 1,580 kg) depending on head type and model of jack.

To operate jacks safely requires dexterity, mechanical skills and sound safety habits.

Although Sumner jacks are manufactured for safe, dependable operation, it is impossible to anticipate those combinations of circumstances which could result in an accident. The following instructions are recommended for safe operation of this unit:

- 1. Read and understand the instructions for safe operation.** Before working with a Sumner jack, understand the correct operation, applications and limitations. Always contact Sumner when in doubt. Be particularly aware of specific hazards. Store this safety manual in a clean area and always at a readily available location. Additional copies are available for download from www.sumner.com.
- 2. Inspect the equipment.** Prior to using Sumner jacks, check all parts to ensure that they are in proper operating condition. Inspect legs for bends, breaks or metal deformation.

CAUTION *In the event of any jack stand leg deformation, discontinue use immediately.*

IMPORTANT *Make any necessary repairs before attempting to use the jack.*

3. **Wear proper clothing.** Hard hat or welding helmet, safety shoes and welding gloves should be worn as a precaution while operating this equipment.
4. **Keep work area clean.** Always keep floor in work area clear of clutter for unobstructed movement around the jack.
5. **Operate from proper position.** Keep balance and proper footing at all times.
6. **Keep alert.** Avoid horseplay around equipment and keep bystanders at a safe distance. Do not allow children to operate jacks and always keep them out of work areas.

CAUTION *Never allow anyone under jack stand with load.*

7. **Do not misuse unit.** Perform only the functions for which the jacks are designed. Never attempt to operate the equipment at more than the recommended capacity.

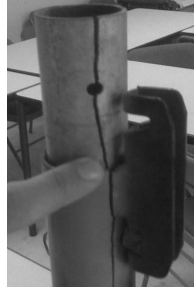
WARNING *Modifying the jack stand can result in injury or death.*

Commonly Found Issues

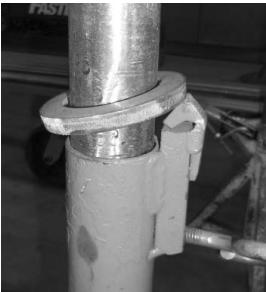
If found, *REMOVE FROM SERVICE.*



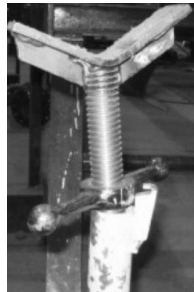
Damaged / Bent Legs



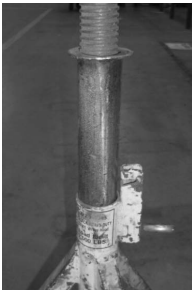
Cracked Welds



Wrong Washer in
Jack Stand



Jack without
ID Tube

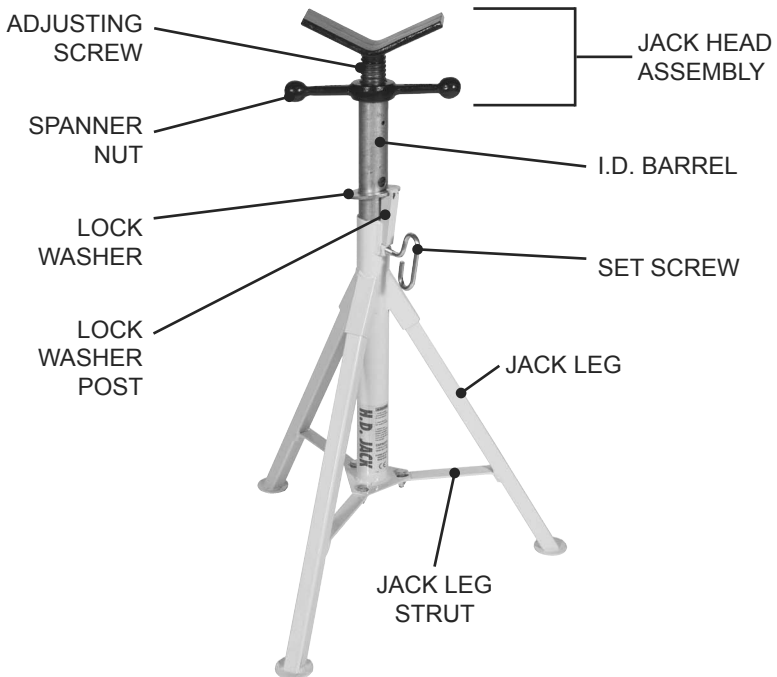


Wrong ID Tube in Jack Stand

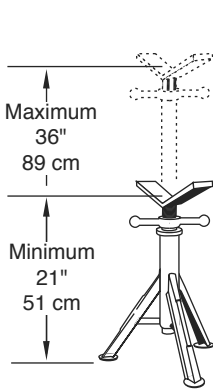


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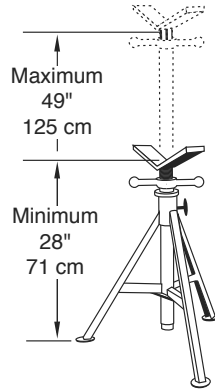
8. **Operate only on level surfaces.** Use the jack only on smooth and level surfaces to avoid tipping and the possibility of operator injury.
9. **Hold both jack head and jack leg or carrying handle when transporting.** To prevent foot injury, always carry jack by both the head and the jack leg or carrying handle.
10. **Use only Sumner parts.** Mixing other manufactured jack stand parts on Sumner jacks can result in operator injury.



Jack Stand Specifications



LO JACK STAND



HI JACK STAND

The above specifications apply to **Heavy Duty Jacks**, **Fold-A-Jacks**, **Hi Heavy Duty Plus Jack** and **Hi Pro Jacks**. The adjustable height range for other jacks varies by type. Consult the latest Sumner Welding Make-Up Tools catalog or www.sumner.com for specifications.

DO

1. Read and understand these instructions prior to operating.
2. Always inspect the equipment for damage and make any needed repairs before using.
3. Wear hard hat or welding helmet and safety shoes.
4. Keep floor clear of clutter and obstructions.
5. Stay alert and always avoid horseplay.
6. Use on level and solid surfaces only.
7. Secure set screw after adjustment of I.D. barrel.
8. Always transport with jack head up.
9. Adjust I.D. barrel to desired work height before placing load on jack.
10. Center load on jack head.

DON'T

1. Never attempt to lift more than the jack's recommended capacity.
2. Do not work under a load.
3. Never operate jack on an unstable foundation.
4. Do not force unit if operation is restricted.
5. Never modify jacks.
6. Do not pull or push loads when mounted on jacks.

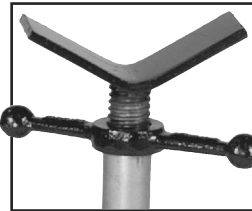
Operating Instructions

Select the right head style:

STEEL VEE HEAD*

CAPACITY: 2,500 lb (1,135 kg).

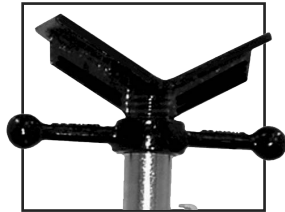
APPLICATION: For up to 24" diameter pipe. The most used all around jack head for welding.



RIBBED VEE HEAD

CAPACITY: 3,500 lb (1,580 kg)

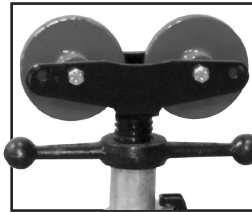
APPLICATION: For up to 24" diameter pipe.



STEEL WHEEL HEAD*

CAPACITY: 2,000 lb (900 kg)

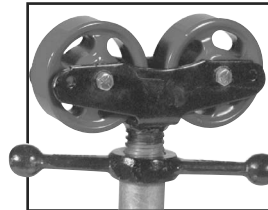
APPLICATION: For roll welding of up to 24" diameter pipe.



STEEL WHEEL HEAD**

CAPACITY: 2,500 lb (1,135 kg)

APPLICATION: For roll welding of up to 24" diameter pipe.



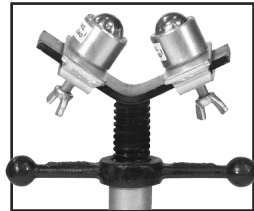
*Available in stainless steel

**FAB SAF Jack & Fat Jack only

BALL TRANSFER HEAD*

CAPACITY: 1,000 lb (450 kg)

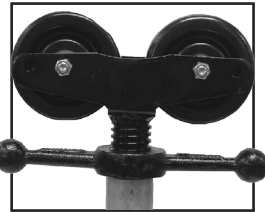
APPLICATION: For rotation of 3/8 – 12" (10–300 mm) diameter pipe or tubing in all directions.



RUBBER WHEEL HEAD

CAPACITY: 1,000 lb (450 kg)

APPLICATION: For roll welding of coated or painted 1-1/2 – 24" (40–600 mm) diameter pipe.



BAR STOCK HEAD

CAPACITY: 2,000 lb (900 kg)

APPLICATION: For flats, bars and beams 1/8 – 10" (3–250 mm). Ideal for supporting material for machinery.



*Available in stainless steel

Select the right jack height:

HIGH JACKS to be used on pipe diameters up to 24".

LO JACKS to be used on pipe diameters 24–36".

Proper Operation:

IMPORTANT *Inspect jack prior to each use to ensure legs are free of bends, breaks or metal deformation and that spanner nut rotates freely.*

1. Sumner offers two different jack heights (hi and lo), that allow welders to work at a comfortable height, depending upon the diameter of the pipe or load. Based on the size of the material to be welded, select the correct jack for the job (see page 8 on jack height).



Correct Jack Height
Operator work level is at comfortable position.



Incorrect Jack Height
Work too low for operator can result in back injury.

IMPORTANT *Always use same height jacks (hi or lo) per load. Do not mix jack makes or head styles.*

2. Position jacks 5 feet (1.5 m) to 12 feet (3.5 m) apart, depending on length and weight of load.
3. Adjust spanner nut so that at least 2–3" (50–75 mm) of adjustment screw is showing out of the I.D. barrel.



4. To position jack to desired height, loosen set screw and lift I.D. barrel. Lock washer will unlock when I.D. barrel is being raised and will grip automatically with the slightest load pressure.

WARNING *Raising or lowering I.D. barrel with load on jack can result in serious injury.*



5. To lower jack head, lift both I.D. barrel and lock washer to loosen barrel. While holding lock washer lower I.D. barrel to desired height. Release lock washer to secure I.D. barrel.

IMPORTANT *To avoid pinching fingers, release lock washer first before releasing I.D. barrel.*



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6. All jack heads used in the same fit-up job should be at equal heights.
7. Always center the load on the jack head.



8. Level load by rotating spanner nut.



Transporting Jack Stand:



Vee head assembly can be locked in the jack for transportation. Position locator hole in ID tube so that it is in-line with set screw.



Tighten set screw so that the head cannot come out of stand.



Jack head assembly can slide out of the I.D. barrel if jack is carried incorrectly. To prevent foot injury, always carry jack by both the jack head and leg or carrying handle.

Adjusting Ball Transfer Heads:

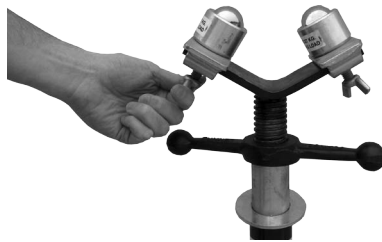
Ball transfer assemblies slide over each vee of the Sumner Vee Head Jack. Make sure set screws are fully recessed. Note that the ball transfer locations are adjustable to accommodate both small 3/8" (10 mm) diameter pipe or larger diameter pipe up to 12" (300 mm).



Positioned for small diameter pipe



Positioned for large diameter pipe



CAUTION

To be sure that pipe stays on the ball transfer head when rotating, tighten set screws.

Adjusting Roller Head and Rubber Wheels:

Remove wheel attaching bolt and nut and reposition for correct pipe size.



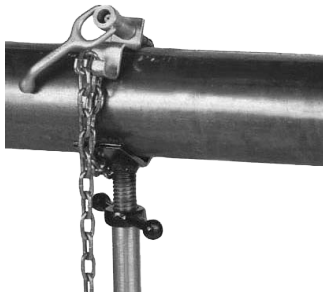
Using Jack Stand with Threading Machine:

When using the pipe stand behind threading machines, pipe stand vee should be positioned so that the pipe has level entry into the threader. A pipe stand should be positioned under the pipe every 8 feet.



Hold-Down Device (PN 781050):

Sumner offers as an option to vee head users, a quick-action chain vise to secure pipe up to 12" in diameter onto the jack stand. The Hold-Down Device is highly recommended as a safety precaution for the welder when fitting up flanges, fittings or short pipe lengths.



For users of larger pipe, a Chain Extension Kit (PN 781056) is available in increments of 12".