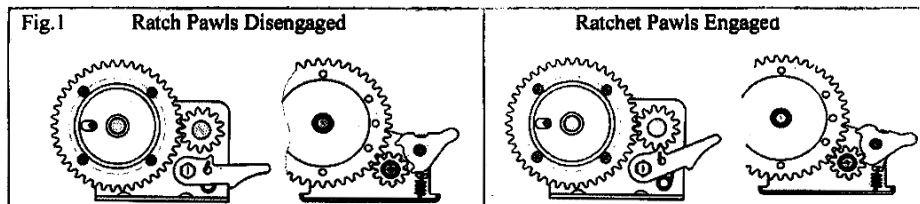


Hand Winch Owner's Manual



- Read, understand and follow all instructions before installing and/or using products. NEVER allow anyone unfamiliar with the operating instructions to use this product.
- Read, understand and follow all instructions provided by the manufacturer of the product(s) that this winch will be installed on.
- Installation of this winch must conform to the following mounting instructions only .We cannot be held liable for improper installation, use or maintenance of products. This winch must not be altered or modified.
- Always inspect the strap or steel cable and hook before each use. NEVER use strap or steel cable that is worn, frayed, or kinked.
- Be sure that the steel cable or strap is strong enough to move the load.
- Do not stand near the winch strap or steel cable, because it can whip violently if it should break.
- NEVER let the steel cable or strap all the way out. Always keep a minimum of three complete wraps of the steel cable or strap around the drum hub. The cable keeper threading, or strap attachment alone will not support the load.
- Do not use the winch to secure boats, personal water craft or any load to trailers. Tie downs must be used for securing loads to trailers.
- Excessive force in turning the handle of the winch may indicate winch overload. Winches generally require 25-45 lbe. of handle force to pull their load.
- IN NO CASE WILL THE RATCHET PAWL HOLD THE LOAD WHEN THE LOAD IS BEING LET OUT.
- NEVER let go of the handle until you are sure the ratchet pawl is engaged and supporting the load (see Fig. 1). A clicking ratchet pawl when letting out the load will not support the load. If the ratchet pawl is not engaged, the handle can spin dangerously and could result in death or serious bodily injury.
- This winch is NOT to be used as a human or equipment hoist.
- NEVER allow anyone to be positioned on, in, behind or under the load being moved or lifted.
- NEVER exceed the maximum rated capacity.
- NEVER operate the winch with wet or oily hands and always maintain a firm grip on the winch handle.
- Failure to follow these warnings and instructions may result in serious bodily injury and/or property damage.
- Save these instructions for use as a reference in the future.



WINCH APPLICATIONS

Trailer winches are for use on boat and personal water craft trailers. For boat and water craft loading:

- There are many factors to consider in selecting the proper size winch which are beyond the control of the winch manufacturer.
- The breaking strength of the strap or cable should be at least 1 ½ times the winch rating. Breaking strength of the hook should be 1 ½ times the breaking strength of the strap and 1 ¼ times the breaking strength of the steel cable.

INSTALLATION INSTRUCTIONS

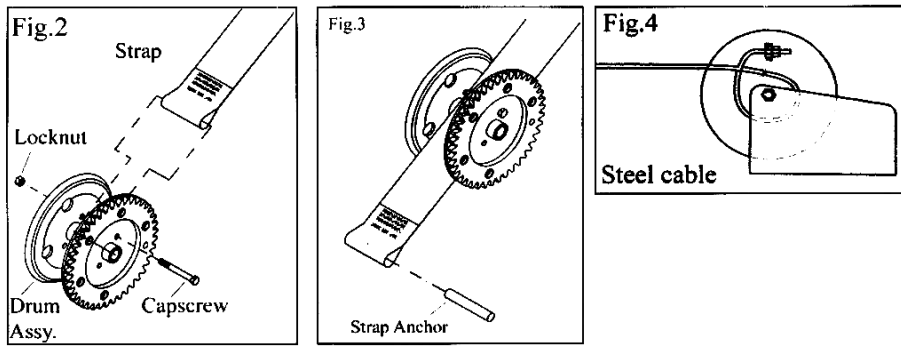
The winch stand must be of adequate strength, and equal size to the base of the winch frame. Place flat washers under the heads of three 3/8" diameter hardened bolts, grade 5 or better. Place the bolts with washers into the slots of the base (those nearest the outside of the frame). Put a lock washer onto each bolt, Turn nuts onto bolts until snug against the frame. Install steel cable, strap onto the drum in such a way that the ratchet pawl is operating (clicking) as the line is being wound onto the winch.

STRAP

Winches have holes in the drums for a strap cross bolt when using strap (see Fig. 2). A hardened bolt, grade 5 or better, is recommended for strap mounting. Tighten the locknut just to where end play in bolt is taken up. Over-tightening can deform drum. For winches having a strap anchor included, pass the strap loop under cross bolt, insert strap anchor in the strap loop, then pull tight (see Fig. 3).

STEEL CABLE (not included)

Pass steel cable through the hole in the drum side going from inside to outside. Wrap steel cable around the drum hub one turn. Continue inserting steel cable one inch past clamp location. Place keeper (clamp) washers and nuts on the outside of the drum (see Fig. 4). Maintain at least three complete wraps of the steel cable around the drum hub at all times.



OPERATING INSTRUCTIONS

To pull line off: Extreme caution must be exercised. Be certain that all persons and objects are clear of the area to ensure that they will not be struck and injured by a spinning winch handle as you pull line off the winch. First, place the ratchet pawl in the disengaged position (see Fig.1). Then, slowly pull line out.

To pull line/boat in: BE SURE TO ALWAYS ENGAGE THE RATCHET PAWL IN THE HOLD POSITION (see Fig.1). Before moving a load, make sure that the ratchet pawl is fully engaged. Turn the handle in the appropriate direction. When turning the handle you should always hear a clicking sound indicating the ratchet pawl is working properly. IF THE CLICKING SOUND STOPS, DO NOT LET GO OF THE HANDLE BECAUSE THE HANDLE CAN SPIN DANGEROUSLY. Secure load before letting go of the handle.

To let line/load out: Take a firm grip of the handle. Then push the ratchet pawl to the disengaged position (see. Fig.1). You may have to turn the handle slightly (pull line in) to disengage the ratchet pawl. Keep a firm grip on the handle and turn slowly. Never let go of the handle when letting out a load unless ratchet pawl is engaged in the load holding position. If you need to stop, always engage the ratchet pawl first, then let go of the handle gradually to make sure the ratchet pawl is holding the load (see Fig.1). A clicking ratchet pawl when letting line/load out will not support the load.

Two speed winches change gear ratios by changing the handle to a different input shaft. Do not change gears while under load.

MAINTENANCE

- The gears should have a film of grease on them at all times.
- Maintain a film of grease on outside diameter of drum spacer or drum support bolt for extended service life.
- Maintain a few drops of automotive engine oil on ratchet pawl mechanism and bushing for extended service life.
- The ratchet pawl mechanism must be clean and free of dirt, paint, ice, etc. as these conditions will prevent the ratchet pawl from operating properly.
- Use only parts of equal quality for repair.

5-YEAR WARRANTY

American Power Pull Corporation warrants for its Winch that it will repair or replace free any parts thereof found under normal use in the United States or Canada to be defective in factory materials or workmanship within sixty(60)months from the date of purchase at retail.

This limited Warranty is extended only to the first purchaser of this product and only for use by that purchaser for the product's intended use.

All we require is that you properly operate and maintain your Winch and that you return defective parts during the five year warranty period to our factory at 115 E. Linfoot Street, P.O. Box 109, Wauseon, Ohio 43567, postage prepaid. At the time these parts are shipped, mail a letter addressed to Customer Service, American Power Pull Corporation, 115 E. Linfoot Street, P.O. Box 109, Wauseon, Ohio 43567, notifying us that you have shipped the parts, enclose a copy of your sales receipt showing the date of purchase and identify the defects about which you are inquiring. Your return address should appear on both the letter and on the shipping container transmitting the parts.

Certain of our selling dealers provide limited warranty replacement services in addition to the service available at our factory. We would suggest that you contact your selling dealer and attempt to resolve your warranty service problems locally prior to returning parts to our factory. Any questions concerning warranty services can be directed to our Customer Service Department, American Power Pull Corporation, 115 E. Linfoot Street, P.O. Box 109, Wauseon, Ohio 43567.

THERE IS NO OTHER EXPRESS WARRANTY ON THIS PRODUCT. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE SIXTY MONTH DURATION OF THIS WRITTEN WARRANTY.

TO THE EXTENT ALLOWED BY LAW, NEITHER AMERICAN POWER PULL CORPORATION NOR THE SELLING DEALER SHALL HAVE ANY RESPONSIBILITY FOR LOSS OF USE OF THE PRODUCT, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS OR CONSEQUENTIAL DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights which vary from state-to-state.



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