

WOOD POWER WINCH

(ITEM#WW3000V12)



INSTRUCTIONS

INTRODUCTION

Thank you for purchasing a 3000lbs winch from our company. Please read and understand this Owner's Manual before installing and operating your winch.

The responsibility for safe operation of this winch ultimately rests with you, the operator. Read and understand all safety precautions and operating instructions before installing and operating the winch. Careless operation can result in serious injury and/ or property damage.

GENERAL DESCRIPTION

This winch is equipped with a permanent magnet motor and is designed for intermittent duty general use. The winch is used neither in industrial nor for lifting, never can it use for moving people. Improper operating could damage your winch and void your warranty.

Free spool clutch is operated by a pull and turn, which can disengage the gearbox, and wire rope will be pulled out by hand with Hand saver bar.

SAFETY PRECAUTIONS

1. Never lift people or hoist loads over people. Do not lift items vertically. The winch was designed for ground use only.
2. Never overload. Be sure all equipment used meets the winch's maximum line pull rating. We recommend using the pulley block optional supplied to double line the wire rope. (See Fig. 1) Double line with a pulley block to reduce the load on the winch, wire rope and battery. When double-lining, pulley blocks should be rated to a minimum of two times the winch's line pull rating.

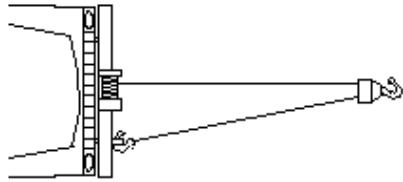


Fig.1

2. Do not attempt to prolonged pulls at heavy loads. The electric winch is designed for intermittent use only, and should not be used in a constant duty application. Never pull for more than one minute or near the rated load. If the winch motor becomes very hot to the touch, stop the winch and let it cool down for several minutes.
3. Never operate winch with less than 5 turns of wire rope around the winch drum since the wire rope end may not withstand full load.
4. Avoid continuous pulls from extreme angles because this will cause the wire rope to pile up on one end of the drum (See Fig. 2) and damage the wire rope.

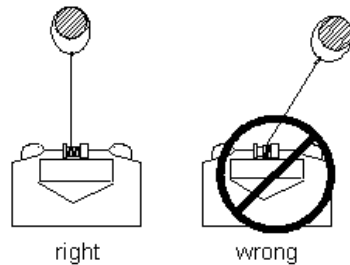


Fig.2

5. Aware the winch's line pull capacity is the max line pull of the first layer. That it only can reach by first layer. Never operate winch pulling a load reach or even over the capacity.
6. Never hook the wire rope back to itself because it could damage the wire rope. Use tree trunk savers. (See Fig. 7)
7. To be sure the winch mounted hard on the vehicle or bracket

before operation.

8. Before moving a load, inspect wire rope. Prevent kinks and uneven wire layer before they occur. Loosen wire rope must be properly tensioned under a load about 100 lb.

It is important that lay a blanket or jacket over the wire rope near the hook end when pulling a loads (See Fig. 3). This will slow the snap back of a broken wire rope and help to prevent serious injure and damage.

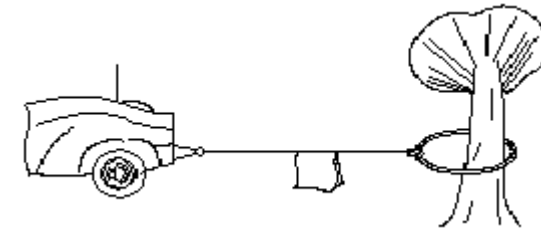


Fig. 3

9. Do not move your vehicle to assist the winch in pulling the load. It will be easy to overload, and cause wire rope damage.
10. Beware of the danger zone. Keep away from the danger zone during the operation. The danger zone is the area of the winch drum, the fairlead (if fitted), the wire rope, the pulley block (if used), the hook, and motor.
11. Never approach or span the wire rope when the winch is under load
12. When using your winch to move a load, place the vehicle transmission in neutral, set vehicle brake, and chock all wheels. The vehicle engine should be running during winch operation so that battery has full electricity. Never use the winch under circumstance of lacking voltage.

13. Never disconnect frees pool clutch when there is a load on the winch.
14. After operation, please release the load immediately. Do not allow the cable tight any more.
15. Always stand clear of wire rope, hook and winch.
16. Inspect winch, wire rope, hooks and other accessories frequently. A frayed wire rope with broken strands should be replaced immediately. Use heavy leather gloves when handling wire rope. Do not let wire rope slide through your hands. Inspect wire rope before use. Mashed, pinched, frayed or kinked areas severely reduce the load-carrying capability. You should replace damaged wire rope. And the replacement ropes must be respooled under a load about 100 lb.
17. You should disconnect the clutch first then use the Handsaver bar to hitch hook to pull wire rope. Never pull wire rope use your finger direct through the hook.
18. To keep stated tensile to re-spool the cable around the drum tightly after operating.
19. Do not operate winch when under the influence of drugs, alcohol or medication. Always stay alert during operation. If there is something wrong you should cut the battery at once then check it carefully.
20. Wear eye protection and insulated work clothes, slip proofing shoes, work cap, thick leather gloves. Foist all your hair into the work cap. Furthermore you should remove all jewelry.
21. Do not machine or meld any part of the winch.
22. Take good care of your winch when it is out of use.

INSTALLATION

Correct installation of your winch is required for proper operation.

1. Mount the winch on the vehicle or other fixed installation by using screw (M8×1.25×30mm), M8 nut, Φ 8 flat washer and Φ 8 spring washer (two sets).

WARNING: This winch must be mounted with the wire rope in an underwind direction. Improper mounting could damage your winch and void your warranty. (See Fig. 4)

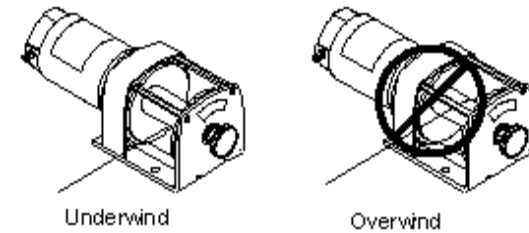


Fig.4

2. Route the two couple of lines from the switch to the motor and battery respectively. Connect the red line to the positive (1) terminal and the green (or black) line to the negative (2) terminal of the battery. (See Fig. 5).

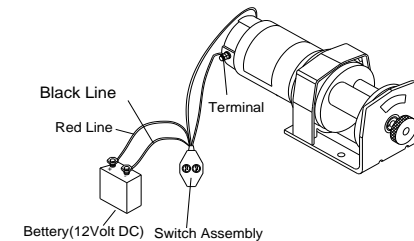


Fig.5

3. Check rotating direction of the drum. Pull and turn the clutch knob to the “Off” position (drum can be turning free). Pull out some cable from the drum, and then turn the clutch knob to the “In” position. Press the “Cable out” button on the handheld switch, if

the cable is releasing then it is right way for connected. Otherwise please change the line connected the motor. You should exchange the two lines. And repeat the above-mentioned operation.

OPERATION

1. Pull and turn the clutch knob, so the drum can turn free by hand.
2. Use Handsaver bar to hitch hook of the cable assembly and pull cable to the loads. attach to the load.

Warning: Check that there is at least five turns of wire rope remain on the drum before operation.

3. Switch clutch knobs back to the “In” position and drum mesh with gear. At the same time drum can’t be turned by hand.

CAUTION: Clutch must be fully engaged before winching.

Never operate the clutch while drum is turning.

Do not readjust clutch knob as it has been adjusted and permanently locked in place with a thread-locking compound in the factory.

4. Press the “Cable In” button on the handheld and the cable was re-spooled. Press the “Cable Out” button to reverse directions. Wait until the motor stops before reversing directions.

5. Re-spooling cable after finished operation.

RIGGING

Warning: never handle the wire rope or rigging while anyone else is at the control switch.

Always use the hand saver bar (see fig. 6). Do not hold the hook with your hand. This is important not only when reeling wire rope in but also when removing wire rope from the winch under power.

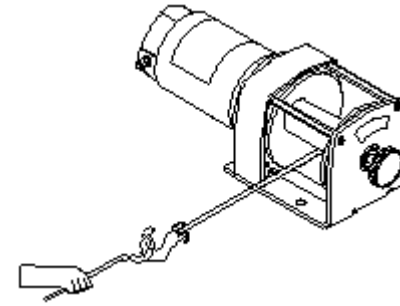
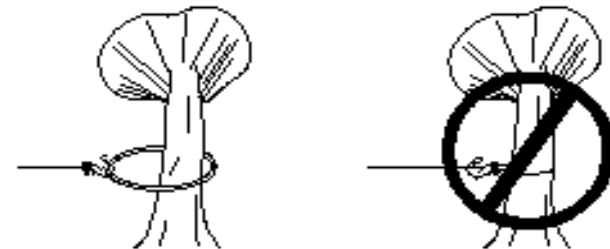


Fig.6

CAUTION: use a nylon sling when attaching the wire rope to an anchor point. Do not attach the hook back on the wire rope. Doing so can cause the wire rope to break. (see fig. 7)



Right

Wrong

Fig.7

1. The most commonly used rigging. A nylon sling is used to protect the tree when it is used as an anchor, and the wire rope is attached to use the sling. (see fig. 8)

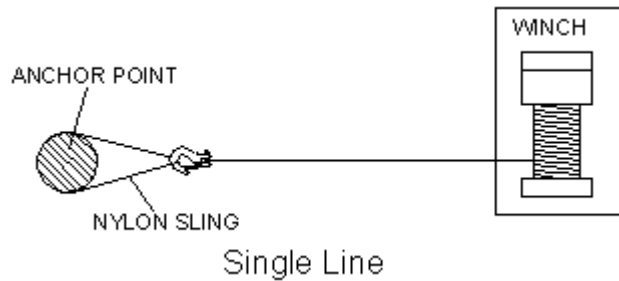


Fig.8

2. A method of rigging used to obtain a mechanical advantage. The use of a pulley block as a traveling block will almost double the winch pulling capacity. (See Fig. 9)

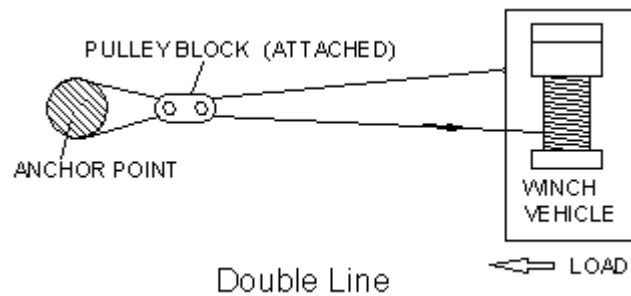


Fig.9

3. The use of a pulley block to change the direction of the pull. Mechanical advantage can be obtained by attaching a pulley block to the nylon sling. (Fig. 10)

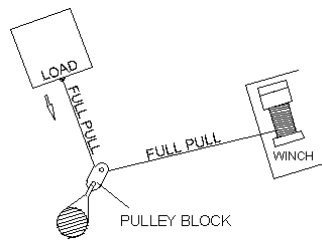


Fig.10

MAINTENANCE

1. Periodically check tightness of mounting bolts and electrical connections. Remove all the dirt or corrosion in time and always keep clean.
2. Do not attempt to disassembly the gearbox. Repairs should be done by manufacturer or authorized repaired center.
3. The gearbox having been lubricated using high temperature lithium grease in the factory. No internal lubrication is required except being repaired.

REPLACE THE WIRE ROPE

1. Engaged the clutch by turning the clutch knob to the "In" position.
2. When inserting the wire rope into the drum, insert it into the correct end of the hole provided. (See Fig. 11) Tighten the setscrew tightly.

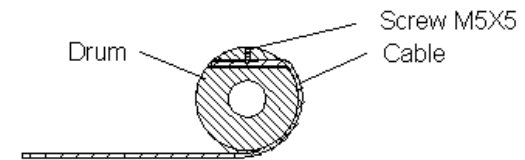


Fig.11

3. Operate the winch and re-spool the wire rope around the drum tightly.

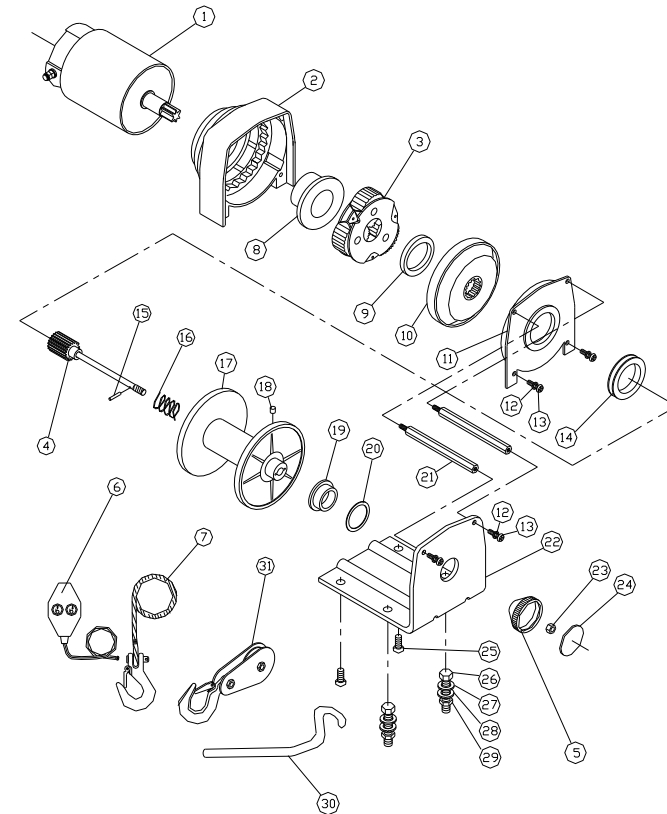
CAUTION: To keep stated tensile to ensure the wire rope can be rolled on the drum tightly.

WARN: Always replace damaged wire rope with manufacturer's identical replacement part.

TROUBLE SHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Motor will not operate or runs in one direction only	-Switch inoperative -Broken wires or bad connection -Defective motor	-Replace switch -Replace wires, connect correctly and screw down the bolts -Replace or repair motor
Motor runs but drum does not turn	-Clutch not engaged	-Engage clutch
Motor runs but with insufficient power or lower line speed	-Weak battery -Defective motor	-Recharge or replace battery -Keep connection terminals clean, tighten or replace connective device -Repair or replace motor
Motor overheating	-Winch running for a long time -Defective motor	-Stop winching and let it cool down -Repair or replace motor

WINCH ASSEMBLY



WINCH PARTS LIST (3000LBS)

ITEM#	PART#	QTY	DESCRIPTION
1	300100	1	Motor
2	300200	1	Gear-Box Assembly
3	300300	1	Planetary Gear
4	300400	1	Clutch Assembly
5	300500	1	Clutch Handle
6	300600	1	Switch Assembly
7	300700	1	Cable Assembly With Hook
8	300001	1	Supporting Ring (I)
9	300002	1	Supporting Ring (II)
10	300003	1	Output gear ring
11	300004	1	Drum holder Plate
12	300005	4	Spring Washer $\varnothing 8$
13	300006	4	Pan Head Screw M4 x 12
14	300007	1	Bush (I)
15	300008	1	Crosspiece 2.5 x 14
16	300009	1	Spring
17	300010	1	Drum
18	300011	1	Screw M5 x 5
19	300012	1	Bush (II)
20	300013	0~2	Adjustive Washer
21	300014	2	Tie Bar
22	300015	1	Base plate
23	300016	1	Lock Nut M6
24	300017	1	Clutch Handle Cover
25	300018	2	Hex Fh Screw M 6 x 16
26	300019	2	Bolt M 8 x 30
27	300020	2	Flat Washer $\varnothing 8$
28	300021	2	Spring Washer $\varnothing 8$
29	300022	2	Nut M8
30	300023	1	Handsaver Bar
31	300024	1	Pulley block

3000LBS

Performance Specifications

Max line pull	3000lbs (1361kgs)
Gear reduction ratio	153:1
Motor:	Permanent magnet DC12V motor with 1.34 hp output
Overall dimensions	12.8"(L) X 4.6" (W) X 4.3" (H) 324 (L) X 113(W) X 108 (H) mm
Drum size	$\varnothing 1.24$ " (D) x 2.88" (L) $\varnothing 31.5$ (D) x 73 (L) mm
Cable	45.9' (L) of $\varnothing 3/16$ " (D) 14m (L) of $\varnothing 4.8$ mm (D)
Net weight:	17.6lbs 8.0kgs
Mounting bolt pattern:	3.13"(79.5 mm)

Line speed and Motor current (first layer)

Line Pull	Lbs	0	1000	2000	3000
	kgs	0	454	907	1361
Line speed (DC 12V)	fpm	10.2	7.6	5.9	4.3
	mpm	3.1	2.3	1.8	1.3
Motor current (DC 12V)	A	18	90	130	180

Line pull and Cable capacity per layer

Layer of cable		1	2	3	4	5	6
Rated line pull	Lbs	3000	2370	1960	1670	1460	1290
	Kgs	1361	1075	889	756	662	585
Cable capacity	Ft.	5.6	12.1	19.7	27.9	37.1	46.9
	M	1.7	3.7	6.0	8.5	11.3	14.0

WARRANTY

Wood Power Winch carries one year limited warranty on most electrical and mechanical parts. Wood Power Winch will repair or replace any defective parts or winch in which it is found to be faulty material or workmanship by Wood Power Winch at their facility or a registered dealer. Wood Power Winch does not bear any cost on labor or transports on charges connected to the repair or replacement of any winch.

Wood Power Winch

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