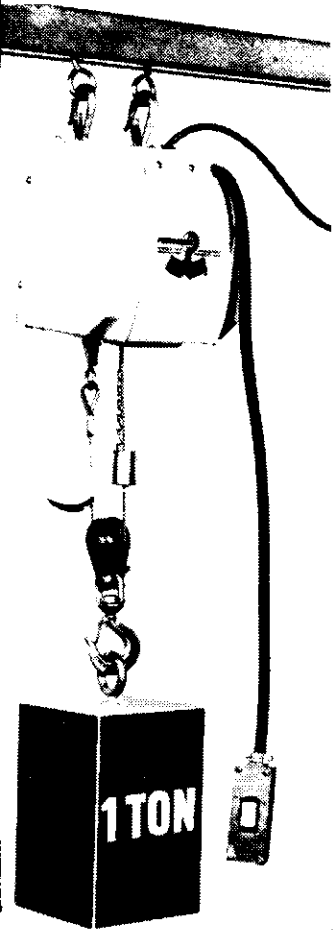


OWNER'S MANUAL

HOIST SERIES

H120



⚠ WARNING ⚠

H-120

HOIST MUST BE PLUGGED INTO
110-120 VOLT 3 WIRE GROUNDED OUTLET

⚠ CAUTION

- Read Owner's Manual Before Use
- Keep Hands Clear of Cable Spool
- Stand Away From Unit When In Use
- Do Not Use This Unit To Lift People Or Animals
- We Recommend The Use of Powerwinch Accessories and Replacement Parts

MAXIMUM CAPACITY

- 2000 lbs. Double Line with Pulley Block
- 1000 lbs. Single Line
- Not To Be Used For Lifting Humans

installation

The Powerwinch Hoist may be permanently mounted, using the holes provided in the base plate of the unit. For extra safety, use three bolts. The Hoist may be hung from an overhead trolley, using the dual hooks provided (79033 in exploded views). These dual hooks prevent the unit from excess swaying. In this fairly rigid position, the cable will wind evenly on the drum for more satisfactory operation.

When the hoist is properly mounted, simply plug into your power source. On the 110 V. model (H-120) a six foot conductor cable is provided.

⚠ WARNING ⚠

ALWAYS MOUNT HOIST VERTICALLY. THE HOIST WILL NOT OPERATE IF MOUNTED HORIZONTALLY. ANY MODIFICATION COULD RESULT IN IMPROPER OPERATION OR PERSONAL INJURY.

GROUNDING INSTRUCTIONS

Hoist should be grounded while in use to prevent the user from electric shock. The hoist is equipped with an approved three conductor cord and three prong grounding-type plug to fit the proper grounding-type receptacle. (Fig 1) The green conductor in the cord is the grounding wire. NEVER connect the green wire to a live terminal.

facts about your hoist

Your hoist is designed for non-production, non-continuous use. **DO NOT OVERUSE.** The maximum time per use is five minutes PER HOUR.

ALLOW THE MOTOR TO COOL ONE HOUR BETWEEN MAXIMUM USES.

The hoist will lift and lower a maximum of 2,000 lbs. using a double line. For longest life, single line hoisting should not be greater than 700 lbs.

25 feet of 7/32" cable is the standard amount of the drum. When double-lining, this allows for a 12 foot lift.

ALWAYS KEEP AT LEAST 4 TURNS OF CABLE ON THE DRUM TO PREVENT THE CABLE FASTENER FROM PULLING OUT.

THE CABLE MUST ALWAYS WRAP FROM THE UNDERSIDE OF THE DRUM. (It must wrap between the drum and the base, not between the drum and the cover.)

If the cable is completely pulled out with the power on, the cable may reverse. If this happens, the brake will not hold the load. To correct this situation, press the "up" button and be sure the cable wraps under the drum.

When the cable is lifting or lowering without a load, put at least a 10 lb. weight or pull on the cable at all times. This will keep the cable winding evenly.

When double lining: The cable must be doubled and the pulley block and hook used. The hook on the end of the cable may be dead-ended in the first hole in the base plate of the unit. This gives a straight line pull which allows the cable to wind evenly. (see Fig. 2)

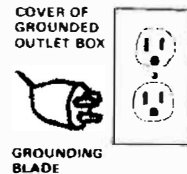


Fig. 1

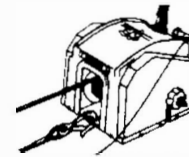


Fig. 2

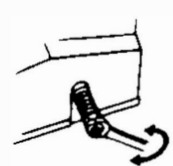


Fig. 3

A friction brake holds the load when the power is off. For longest life, you must adjust the brake to as loose a position as possible—so that the load doesn't slip. For heavy loads, tighten the inner nut, left hand. (See Fig. 3) For lighter loads loosen the inner nut as much as possible to extend motor life. When adjustment has been made, the inner and outer nuts should be locked together to prevent accidental loosening.

A shut-off switch (H120 only) is provided which automatically stops the power on the "up" cycle. This prevents the hook or the pulley block from going into the hoist and damaging it.

⚠ WARNING ⚠

DO NOT DISCONNECT THE LIMIT SWITCH BECAUSE THE HOIST WEIGHT COULD WIND INTO THE DRUM CAUSING HOIST DAMAGE AND PERSONAL INJURY.

making minor repairs

Replacing motor

1. Hand turn gears of old motor gently back and forth. Note slight backlash. Gears of new motor should have about same degree of play.
2. Note where wire leads are connected so that proper connections will be made on new motor. Then disconnect leads.
3. Back off screws on motor bands and remove bands.
4. Take out old motor.
5. Put new motor in place, taking care to see that gears are meshed properly.
6. Fasten motor bands and connect wire leads.
7. Check new motor for correct backlash. Gears should not be too tight or too loose. Adjust by increasing or decreasing thickness of shims under motor.
8. Lubricate the gears once a year with a lithium base grease.

POWERWINCH SAFETY RULES



WARNING: When using your hoist, basic safety precautions should always be followed to reduce the risk of electric shock, fire, or personal injury including the following items. Read all instructions and save them for further reference.

1. **READ YOUR OWNER'S MANUAL.** **ONLY** let people who know the Powerwinch Safety Rules use your hoist.
2. **ALWAYS** ground your hoist. Your hoist is equipped with a three prong plug, it should be plugged into a three hole electrical outlet.
3. **NEVER** use your hoist to lift or move people or animals.
4. Keep the hoisting area free of people. **Only** let adults use the hoist.
5. **Always** wire your hoist (12V) with the circuit breakers. There could be overheating, which could cause a fire.
6. **NEVER** use rope instead of cable. It will break, causing possible damage.
7. **Only** attempt to lift as much as your hoist is rated to lift.
8. **Do Not** use your hoist to hold or support the load once you finish the job.
9. **NEVER** wrap the hoist cable around the load. This causes cable kinking which breaks down cable strength. Use an **ECOSTRAP** or a chain.
10. **Always** wear leather gloves when handling the cable. Steel cable can be hard on hands.
11. Keep your hands, fingers and feet clear of the drum area. (where cable winds)
12. **ALWAYS** unplug the conductor cord to prevent accidental starting when starting up, adjusting or making repairs to your hoist.
13. **DONT** expose hoist to rain or use in damp or wet locations. Do not use hoist in presence of flammable liquids or gases.
14. **NEVER** stand under a load.
15. **NEVER** operate the unit more than 5 minutes per hour.

⚠ WARNING ⚠

ALWAYS MOUNT HOIST VERTICALLY. THE HOIST WILL NOT OPERATE IF MOUNTED HORIZONTALLY. ANY MODIFICATION COULD RESULT IN IMPROPER OPERATION OR PERSONAL INJURY.

6. **Always** inspect the entire cable before use to check for fraying or kinking. The cable could break if it is frayed or kinked.
(frayed—wear by rubbing)
(kinked—short tight twist or curl)
7. If you need to replace the cable **ALWAYS** replace it with one of the **same size and strength.** (Use Powerwinch cable **ONLY!**) The hoist's rating and the cable strength are carefully matched. Your warranty is **VOID** if any other cable is used.

⚠ WARNING ⚠

ALWAYS STAND CLEAR OF THE HOIST AREA. IF THE CABLE BREAKS, SERIOUS INJURY COULD OCCUR. NEVER STAND UNDER THE LOAD.

NOTE: Any **LIMITED WARRANTY** which may apply to this product may be **VOID** if said product has been damaged due to accident, unreasonable use, neglect, modification, or failure to observe these safety rules.

REPAIR PARTS LIST H-120

KEY NO.	ID NO.	DESCRIPTION	QTY USED
1	79715	5/8-18 drum nut	3
2	71753	Drum gear	1
3	71823	Spacer	1
4	71605	Bearing	2
5	71820	Bearing spacer	2
6	71952	Drum shaft flange	1
7	71403	Drum shaft	1
8	71858	7/32 cable fastener	1
9	71954	Drum flange-split	1
10	70177	Base pan	1
11	79713	1st gear shaft nut 1/2-20 thin	1
12	79587	Self tapping screw 10-24-3/8"	9
13	71102	1st gear shaft	1
14	79028	3/8-16 thin nut	1
15	75600	Pawl stud	1
16	71903	Pawl spring	1
17	73853	Pawl	1
18	70204	Retainer	9
19	71752	Drive gear	1
20	79852	Split ring retainer	1
21	79712	1/2-20 nut	3
22	71708	Idler gear	4
23	71704	Pinion gear	1
24	71606	Bearing	1
25	71301	Intermediate shaft	1
26	71608	Bearing	2
27	79088	1" drum collar	1
28	71704	Pinion gear	1
29	71817	2nd shaft spacer	1
30	71204	Rear shaft	1
31	71607	Bearing	2
34	73604	Clutch lining	1
35	71756	Gear	1
36	71825	Clutch adjustment spacer	1
37	71822	Spacing washer	6
38	71904	Brake spring washer	2
39	79714	1/2-20 left hand nut	2
40	72101	Motor with gear	1
41	72203	Motor strap	2
42	70105	Frame	1
43	70206	Levelwind spring	2
44	BG2169	Case, black	1
45	71829	End spacer	2
46	79033	Hook	2
47	71827	Hook support shaft spacer	1
48	71500	Hook support shaft	1
49	71749	Brake gear	1
53	71872	7/32 x 25 assy.	1
54	79133	Pulley block with swivel hook	1
NS	78019	110V lead w/plug	
NS	78110	Safety switch	
NS	78310	Remote control switch assy.	
NS	78554	7 ft. remote cord	
NS	79038	Box for remote control	
NS	78137	Switch for remote control	
NS	78114	Bush strain relief	2
NS	79710	Hex nut 3/8-16	1
NS	79851	1/2" Retaining ring	1
NS	79701	10-32 Hex nut	1
NS	79603	3/8-16 x 1-1/2"	1

* NOT SHOWN

LIMITED WARRANTY

- A. This Limited Warranty is given by the Powerwinch Division of the Scott Fetzer Company (the "Company") to the original purchaser (the "Purchaser") of a Powerwinch Product (the "Product") specified in this manual. This Limited Warranty is not transferable to any other party.
- B. Responsibilities of the Company under this Limited Warranty:
1. Repair or replace (at the discretion of the Company) any part or parts of the Product found by the Company to be defective within a two (2) year period from date of purchase.
 2. The Company will pay the transportation charge for shipment back to the Purchaser of any Product received for legitimate Warranty repair.
- C. Responsibilities of the Purchaser under this Limited Warranty:
1. Complete (fully and accurately) and return to the Company the Warranty card included in the box. Otherwise Purchaser will have to show dated proof of purchase to qualify for service under the provisions of this Limited Warranty.
 2. Promptly notify the Seller or the Company of any claim hereunder.
 3. At the Option of the Company, return the Product to the Company for inspection. Authorization must be given Prior to any Product return. Call the Company at 1-800-793-4793 or write the Company at 2. 268 Fairview Blvd. Fairview, TN 3706.2 for authorization and complete instructions on how to return the Product directly to the Company.
 4. Use reasonable care in maintenance, operation, use and storage of the Product in accordance with the instructions contained in the Owner's Manual.
5. Have Warranty work performed by a dealer or representative approved by the Company.
6. Except as provided in B.2, transportation charges are the responsibility of the Purchaser.
- D. This Limited Warranty covers:
1. Defects in workmanship or materials.
 2. Any part or parts of the Product sold or manufactured by the Company
- E. This Limited Warranty does not cover:
1. Any failure that results from improper installation of the Product.
 2. Any failure that results from accident, Purchaser's abuse, neglect, modification, improper maintenance, or failure to operate and use the Product in accordance with the instructions provided in the Owner's Manual supplied with the Product.
- F. THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO TWO (2) YEARS FROM DATE OF PURCHASE. THIS IS THE EXCLUSIVE REMEDY AND ANY LIABILITY FOR ANY AND ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES OR EXPENSES WHATSOEVER IS EXCLUDED. Some states do not allow limitations on how long an implied warranty lasts, or do not allow exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.
- Powerwinch reserves the right to alter specifications on any product without notice.

Call 1-800-793-4793 and ask for our Service Department.
We will give you the name of the nearest warranty repair center in your area.

NON-WARRANTY REPAIRS

If you are unable to service your winch yourself, call 1-800-793-4793 and ask for our service department. We will give you the name of the nearest repair center in your area.

When sending your unit to the nearest repair center, give your name, address, and any pertinent information on your winch problem. Please pack carefully so as to avoid damage in shipment.



Powerwinch

a Scott Fetzer company

2.268 Fairview Blvd, Fairview, TN 3706.2
Telephone 1-800-793-4793

MOUNTING HOLE PATTERN H-120 HOIST

FRONT OF H-120 WINCH

