Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

24a

TRUCK/SUV WINCH 1200LB.



Visit our website at: http://www.harborfreight.com Email our technical support at: productsupport@harborfreight.com

56385

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.

Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

AWARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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Specifications

Rated Single Line Pull	12,000 lb (5443 kg)
Application	Vehicle Recovery / For Trucks and SUV's
Motor	12VDC Series Wound
Power IN & Power OUT	Yes
Duty Cycle Rating	5% (45 sec at Max Rated Load; 14 min, 15 sec Rest)
Remote Control	Wireless/Wired, 12 ft (3.7m) long
Gear Train	3-Stage Planetary
Gear Ratio	210:1
Freespool	Rotating Ring Gear
Brake	Automatic Load Holding
Drum (Dia. X L)	2.5" x 8.8" (64mm x 224mm)
Clevis Hook	3/8", Replaceable with Spring-loaded Safety Latch

Fairlead	Aluminum Fairlead
Sound Rating	85 dB
Synthetic Rope Size / Type	Ø0.375" x 80' (Ø9.5mm x 24.4m)
Battery	12VDC Minimum 650 CCA
Battery Cables	Minimum 2 AWGx6'
Mounting Bolt Pattern	10" x 4.5" (254 mm x 114.3 mm)
Mounting Hardware	Winch: 8x Gr8.8, M10 x 30mm Fairlead: 2x Gr8.8, M12 x 40mm
Overall Dimensions (L x D x H)	23.2" x 6.67" x 9.96" (590mm x 169.5mm x 253mm)
Shipping Weight	80 lb (36.2 kg)
IP Rating	IP68 / IP69K
Remote Control Battery	CR2032 3V x 2

Layer	Rated Line Pull	Synthetic Rope Capacity
1	12000 lb (5443 kg)	16.3' (5m)
2	9517 lb (4317 kg)	37' (11m)
3	7885 lb (3577 kg)	60' (18.3m)
4	6732 lb (3,054 kg)	80' (24.4m)

First Layer of Synthetic Rope Performance					
	Line Pull lb (kg)		Line Speed fpm (mpm)		Amp Draw (@ 12V)
	0	(0)	31.5	(9.6)	60
1	3000	(1361)	12.1	(3.7)	166
	6000	(2722)	8.9	(2.7)	259
	9000	(4082)	6.7	(2.0)	349
	12000	(5443)	4.7	(1.43)	448

	WARNING SYMBOLS AND DEFINITIONS
A	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
▲ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
▲ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
ACAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

Symbol	Property or Statement
	Wear heavy-duty, cut- and abrasion-resistant leather gloves.
	Wear ANSI-approved safety glasses.
	Cut or sever hazard.
	Roller entanglement hazard.
	Hot surface burn hazard.
	Fire hazard.
	Caustic chemical (acid) hazard.
	Explosion hazard.
	Do not loop the synthetic rope around object and hook onto itself.
	Do not place finger(s) through hook. Fingers may be caught and get pulled into fairlead or drum.
SE	Pull hook using strap only.

Symbol	Property or Statement
(2)	Do not use winch in overwind orientation. (Synthetic rope enters/exits at the top.)
0	Use winch only in underwind orientation. (Synthetic rope enters/ exits at the bottom.)
VDC	Volts Direct Current
Α	Amperes
CCA	Cold Cranking Amperes
HP	Horsepower
fpm	Feet Per Minute
mpm	Meters Per Minute
RPM	Revolutions Per Minute
IP	International Protection rating Classifies the degrees of protection provided against the intrusion of solid objects, dust, accidental contact, and water.
G8	Grade 8 A fastener strength rating.

IMPORTANT SAFETY INFORMATION



WARNING! Read all instructions. Failure to follow all instructions listed on page 4 may result in fire, serious injury and/or DEATH.

The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Installation Precautions

















- Do not wear loose clothing or jewelry, as they can be caught in moving parts.
 Non-skid footwear is recommended.
 Wear restrictive hair covering to contain long hair.
- Wear ANSI-approved safety goggles and heavy-duty leather work gloves during installation.
- Before installation confirm that area is clear
 of fuel lines, brake lines, electrical wires,
 gas tanks or any other component which
 could be damaged during drilling.
- Mounting location and hardware must support Winch and load.
- Use supplied power cords and synthetic rope listed in manual only. Do not use thinner/ longer cables or link multiple cables together.
- Do not route electrical cables near sharp edges or parts that will move or become hot.
- Ventilate area well before and while working on battery. Explosive invisible hydrogen gas can accumulate and then explode when ignited by a spark from the battery connection.

- 8. Only connect to a clean, corrosion free battery.
- 9. Do not lean over or come in contact with battery while making connections.
- Remove all metal jewelry before working near battery.
- 11. Connect the red cable to the Disconnect Switch, then connect the 12" 2AWG cable to the Disconnect Switch and the positive battery terminal. Connect the black cable to the negative battery terminal.
- 12. Insulate all exposed wiring and terminals after installation.
- Install Winch and Fairlead in underwind orientation, so that the Synthetic Rope enters and exits the Winch at the bottom of the drum.
- 14. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.

Service Precautions













- Wear ANSI-approved safety goggles and heavy-duty leather work gloves during service.
- 2. Disconnect power to Winch and allow it to cool completely before service.
- Use supplied power cords, synthetic rope or cables listed in manual only. Do not use thinner/ longer cables or link multiple cables together.
- Have the Winch serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the Winch is maintained.

- Keep batteries out of reach of children. Keep batteries in original package until ready to use. Discard used batteries immediately. Do not allow children to play with devices containing batteries.
- Maintain labels and nameplates on the Winch.
 These carry important safety information.
 If unreadable or missing, contact
 Harbor Freight Tools for a replacement.

Button/Coin Battery Safety

AWARNING

- INGESTION HAZARD: This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours.



- KEEP new and used batteries OUT OF REACH OF CHILDREN
- Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.



This symbol means:

INGESTION HAZARD: This product contains a button cell or coin battery.

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- 4. Non-rechargeable batteries are not to be recharged.

- Do not force discharge, recharge, disassemble, heat above 140° Fahrenheit or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- 6. Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.



SAVE THESE INSTRUCTIONS.

Installation and Setup



Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

What's in the Box

Winch x 1



Remote Control x 1

Remote Control Cable x 1









Hook x 1

Rope Protecting Mat x 2

Ground Cable x 1

Disconnect Switch x 1









Red Hook Strap x 1

Control Box Baseplate x 1

Sheath (red, black, yellow) x 3

Extended Copper Screw x 3









Small Black Wire Extension x 1





ck Disconnect Switch Cable x 1 nector x 1

Terminal Box x 1
Terminal Box Cover x 1







Power Cables (relocation kit) x 3







- Manual
- Guide to Winching

Mounting the Winch

- Make sure the Winch will fit the chosen mounting area. If relocating the Control Box is necessary or desired, perform the removal and installation of cables to the Winch before mounting. Refer to Relocating the Control Box on page 8.
- 2. The mounting plate must be rated to at least the Winch's capacity.
- Align the Winch perpendicular to center line of the vehicle at the desired location, and mark the locations of the winch base holes. Compare the dimensions of the marked holes to Figure A.
- Before drilling, verify that the installation surface has no hidden components or structural pieces that will be damaged.

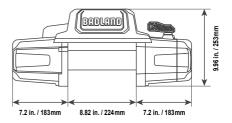
NOTE: This Winch can generate extreme forces. Select a location that can withstand the rated capacity without damage or weakening. Steel reinforcement plates may be needed or a certified welder may need to weld on additional bracing depending on the mounting location.

5. Drill holes appropriate for the hardware at the marked locations.

Note: Depending on the vehicle application, it may be beneficial to install the wiring before mounting the Winch. Check all terminal access and plan wiring routes before mounting the Winch.

6. Install the Winch using hardware specified on the specification chart. Tighten fasteners to the following torque values:

Winch mounting fasteners 30–33 ft-lb



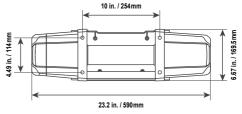


Figure A: Winch Dimensions

- 7. Mount the Fairlead centered on the Winch to guide the Rope onto the Winch drum.
- 8. Install the Fairlead using hardware specified on the specification chart. Tighten fasteners to the following torque values:

Fairlead mounting fasteners 53-57 ft-lb

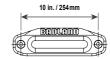


Figure B: Fairlead Mounting Dimensions

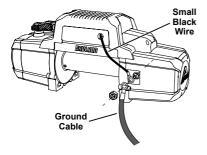
Relocating the Control Box (optional)



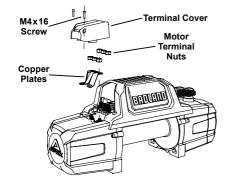
TO PREVENT SERIOUS INJURY FROM EXPLOSION DUE TO SPARKING AT THE BATTERY CONNECTION:

Unplug the Remote Control Cable and disconnect the Battery Cables before making other wiring connections.

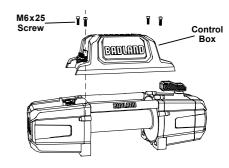
- 1. Engage the clutch on Winch.
- 2. Disconnect the vehicle battery cables, negative terminal first.
- Disconnect the Ground Cable and Small Black Wire from terminal on rear of Winch. Make sure the Small Black Wire that connects to the Control Box is disconnected and hanging freely.



 Remove the Terminal Cover by unscrewing two M4x16 Screws holding it in place. Remove the six Motor Terminal Nuts and three Copper Plates. Retain all the hardware.



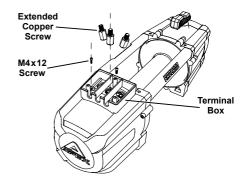
Remove four M6x25 Screws holding the Control Box in place and gently lift it off of the Winch.



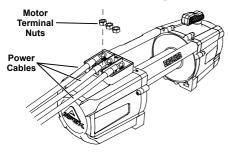
Attach the Control Box Baseplate to the Control Box using the four M6x25 Screws removed in step 5.



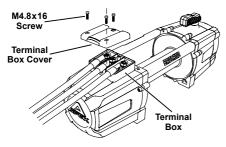
 Install the three Extended Copper Screws to the terminal on the motor. Mount the Terminal Box on the Winch using two M4x12 screws. Do not overtighten screws.



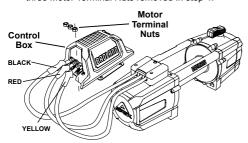
 Connect three Power Cables (Control Box Relocation Kit) to the Extended Copper Screws on motor terminal using three of the Motor Terminal Nuts removed in step 4.



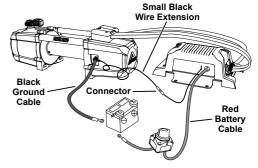
 Install the Terminal Box Cover on the Terminal Box using three M4.8x16 Self-Tapping Screws. Do not overtighten screws.



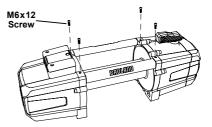
 Connect three Power Cables (control box relocation kit) to the Control Box using remaining three Motor Terminal Nuts removed in step 4.



11. Use the Small Black Wire Connector and Small Black Wire Extension to lengthen the Small Black Wire from the Control Box. Reconnect the Ground Cable and Small Black Wire to the backside of the Winch motor.



12. Install the four decorative M6x12 Screws onto the Winch.



- Place the Control Box on a solid mounting surface in a suitable place near enough to the Winch to allow the cables to be routed properly.
- Verify that the installation surface has no hidden components or structural pieces that will be damaged before drilling.
- 15. Secure the Control Box assembly in place with Baseplate mounting hardware.

AWARNING



TO PREVENT SERIOUS INJURY FROM EXPLOSION
DUE TO SPARKING AT THE BATTERY CONNECTION:
Unplug the Remote Control Cable and disconnect the Battery Cables
before making other wiring connections.



TO PREVENT SERIOUS INJURY FROM LEAKING BATTERY ACID:

Do not use a dirty, corroded or leaking battery.

Only use a 12V automotive (or equivalent) battery, in good condition.

 Plan a route for the wiring from the point of the vehicle where the Winch will be mounted, or used, to the battery. This route must be secure, out of the way of moving parts, road debris, or any possibility of being damaged by operation or maintenance of the vehicle. For example, you may wish to route the wires under the vehicle, attaching it to the frame using suitable fasteners.

<u>WARNING!</u> TO PREVENT SERIOUS INJURY: Do not attach the wires to the exhaust system, drive shaft, emergency brake cable, fuel line, or any other components which may create damage to the wiring through heat or motion, or create a fire hazard.

- If you drill through the bumper or any part of the body to route the wires, be sure to install a rubber grommet in the hole to prevent fraying of the wires at that point.
- Route the Cables from the Winch to the battery, following the precautions discussed above.
 Refer to Figure C.

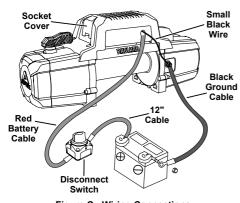


Figure C: Wiring Connections

- Attach the 12" 2AWG Disconnect Switch Cable to the positive terminal on the battery.
- 5. Attach the 12" 2AWG Cable from the battery to either terminal on the Disconnect Switch.

- Attach the red Battery Cable from the Winch to the remaining terminal on the Disconnect Switch.
- 7. Attach the black Ground Cable and the Small Black Wire to the terminal at the rear of the Winch.
- 8. Attach the black Ground Cable from the Winch directly to the negative terminal of the battery.
- Lift the Socket Cover exposing the Remote Control socket and Wireless Receiver Switch. Connect the Remote Control Cable to the socket and the Remote for wired remote control. For wireless control do not use the Remote Control Cable and turn on the Wireless Receiver Switch. Refer to Remote Control Instructions on page 12.
- 10. Turn on the Disconnect Switch and operate the remote controls briefly to test Winch function and drum rotation direction. If operation is reversed, the Battery Cables may be connected backwards. Correct any such issue before use.

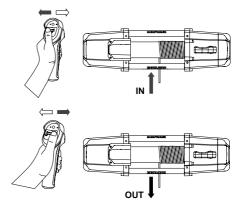


Figure D: Remote Controls

- Disconnect and turn off the Remote Control when not in use.
- Turn off the Disconnect Switch when the Winch is not in use or when the vehicle has returned to on-highway operation.

Disconnect Switch

<u>WARNING!</u> TO PREVENT SERIOUS INJURY: Off-highway driving subjects the vehicle and wiring to much higher vibrations than on-highway driving which can cause a breakdown of wiring insulation over time. Use the high current Disconnect Switch included with this Winch to turn OFF the power to the Winch when it is not in use to help reduce the risk of a short circuit.

- 1. To use the Winch, use the Disconnect Switch to turn the power to the Winch ON.
- When the Winch is not in use, turn the Disconnect Switch OFF to reduce the risk of a short on the main power to the Winch.

Preparing the Synthetic Rope

The Synthetic Rope must be properly coiled under tension to be able to support a load without damage.

- Find a suitable location where the Rope can be spooled onto the Winch while anchored to a solid object. Approximately 70 feet will be required. Alternately, a snatch block (sold separately) may be used to reduce the distance to 35 feet.
- Move the Clutch Handle to the Freespool
 position and uncoil the Synthetic Rope until
 5 wraps remain on the drum. Move the Clutch
 Handle back to the Engaged position.

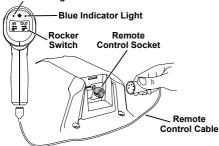
- Slowly and carefully move the vehicle in reverse to remove slack from the line.
- 4. Place the vehicle in neutral. Spool the Synthetic Rope back into the Winch while gently applying the brakes. If the ground is flat, shallow mud or dirt, the brakes can be fully applied. Pavement can generate much higher loads, in which case only light braking is needed.
- 5. Use a second person to monitor the rope spooling evenly onto the drum.
- 6. The last layer of Rope can be put on without tension.

Remote Control Instructions

Wired Operation

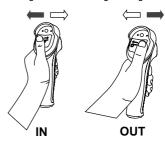
 To use the Remote Control in a wired configuration, connect the Remote Control Cable to the bottom of the Remote Control and to the Remote Control Socket on the Control Box.

Red Indicator Light



2. The blue indicator light will come on indicating the Remote Control is ready for use.

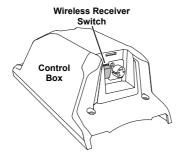
 With the Clutch Handle in the Engaged position, press IN on the Rocker Switch to retract the Synthetic Rope— the red indicator light will flash during winding.



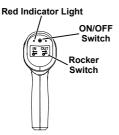
Press OUT on the Rocker Switch to extend the Synthetic Rope out.

Wireless Operation

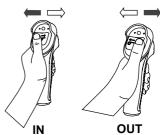
 For wireless Remote Control operation, turn on the Wireless Receiver Switch on the Control Box.



Press and hold the ON/OFF Switch on the Remote for approximately 2 seconds until the red indicator light comes on, indicating the Remote Control is ready for use.



- With the Clutch Handle in the Engaged position, press IN on the Rocker Switch to retract the Synthetic Rope— the red indicator light will flash during winding.
- Press OUT on the Rocker Switch to extend the Synthetic Rope out.



 To turn off the Remote Control, press and hold the ON/OFF Switch until the red indicator light goes out, approximately 2 seconds.
 Turn off the Wireless Receiver Switch.

Note: The Remote Control will automatically shut itself off after 2 minutes of inactivity to save the battery.

Operation

Before operating this Winch, refer to the Harbor Freight Tools publication *Guide to Winching* included with the Winch for important operational safety information, winch basics, winching tips, and general winch operating procedures. If this guide is unreadable or missing, contact Harbor Freight Tools for a replacement.



Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of the *Guide to Winching* including all text under subheadings therein before use of this product. The instructions included in the *Guide to Winching* are basic guidelines only and cannot cover all situations encountered during use. The operator and assistants must carefully plan usage to prevent accidents.



Maintenance and Servicing



Procedures not specifically explained in this manual must be performed only by a qualified technician.

AWARNING



TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Unplug the Remote Control Cable and disconnect the Battery Cables before

Unplug the Remote Control Cable and disconnect the Battery Cables before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM WINCH FAILURE:

Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

- BEFORE EACH USE, inspect the general condition of the Winch. Check for:
 - · loose hardware
 - · misalignment or binding of moving parts
 - · cracked or broken parts
 - · damaged electrical wiring
 - · corroded or loose terminals
 - any other condition that may affect its safe operation.

Examine the Synthetic Rope. Do not use the Winch if the Rope is frayed or has cut strands.

- AFTER USE, wipe external surfaces of the Winch with clean cloth. If the Winch is submerged during use, rinse thoroughly with fresh, clean water when finished.
- 3. The Winch's internal mechanism is permanently lubricated. Do not open the housing.

Remote Battery Replacement

- Remove screw(s) and open Remote's battery compartment.
- 2. Remove battery and dispose of properly.
- Insert new battery in correct polarity, close compartment and replace screw(s).

Synthetic Rope Replacement

- 1. Move Clutch Handle to the Freespool position.
- Extend the Synthetic Rope to its full length, noting how the existing Rope is connected to the inside of the drum.
- Remove old Synthetic Rope and attach new assembly.

<u>CAUTION!</u> Do not replace with inferior synthetic rope. Only use a synthetic rope rated to the same rating cited on the specification chart or better.

- Retract Synthetic Rope onto Rope drum. Refer to instructions for tensioning the Synthetic Rope under Preparing the Synthetic Rope on page 11.
- 5. Test Winch for proper operation.

Troubleshooting

Problem	Possible Causes	Likely Solutions
Motor	Incorrect power cords.	Use only supplied power cords.
overheats.	2. Winch running time too long.	2. Allow Winch to cool down periodically.
	Insufficient current or voltage.	Fully charge battery. Run Winch with vehicle motor running.
	4. Loose motor connections.	4. Check and tighten motor connections to Control Box.
Motor does not turn on.	Remote Socket not connected properly.	Insert Remote Socket all the way into connector.
	2. Loose battery cable connections.	2. Tighten nuts on all cable connections.
	Insufficient current or voltage.	Fully charge battery. Run Winch with vehicle motor running.
	4. Defective contactor.	4. Replace Control Box.
	5. Wireless Receiver Switch turned OFF.	5. Turn ON Wireless Receiver Switch.
	6. Wireless Remote turned OFF.	6. Turn ON Wireless Remote.
	7. Winch Disconnect Switch turned OFF.	7. Turn ON Winch Disconnect Switch.
	8. Low batteries in Wireless Remote.	8. Replace Remote batteries—CR2032, quantity two.
	9. Defective motor.	Check for voltage at armature port with Switch pressed. If voltage is present, replace motor.
	10.Loose Control Box ground cable.	10.Check and tighten ground cable to Control Box.
	11.Internal wear or damage.	11.Replace motor.
Motor runs but drum does not turn.	Clutch not engaged.	Move the Clutch Handle to the Engaged position. If problem persists, a qualified technician needs to check and repair.
Motor runs slowly or	Insufficient current or voltage.	Battery weak, recharge. Run Winch with vehicle motor running.
without normal power.	Loose or corroded battery cable connections.	2. Clean, tighten, or replace.
	3. Incorrect power cords.	3. Use only supplied power cords.
Motor runs in	Defective contactor.	Replace Control Box.
one direction	2. Defective Wireless Remote.	2. Replace Wireless Remote.
only.	3. Loose motor connections.	3. Check and tighten motor connections to Control Box.



Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.

FCC STATEMENT

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Re-orient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO.

Record Product's Serial Number Here:_

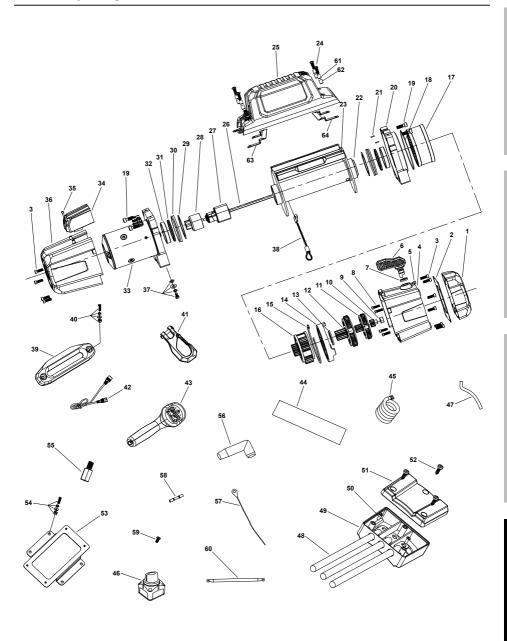
<u>Note:</u> If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 193175512772 when ordering parts.

Parts List

Part	Description	Qty
1	Gearbox End Cover	1
2	Washer	1
3	Star Screw M6 x 20	10
4	Gear Box Z69	1
5	Clutch Retaining Bolt	1
6	Clutch Handle	1
7	Clutch Handle Washer	1
8	Hex Socket Screw M5 x 20	4
9	Bearing	1
10	Hex Sun Gear	1
11	Planetary Gear Assembly 1	1
12	Planetary Gear Assembly 2	1
13	Washer	1
14	Ring Gear Z66	1
15	Circlip Washer Ø125	1
16	Planetary Gear Assembly 3	1
17	Ring Gear Z57	1
18	O-Ring Ø126 x 2	1
19	Star Screw M8 x 25	4
20	Gearbox Base	1
21	Pin	2
22	Drum Assembly	1
23	Tie Bar	2
24	Star Screw M6 x 25	4
25	Control Box Assembly	1
26	Transmission Shaft S8 x 289	1
27	Brake Assembly	1
28	Spline Drive Sleeve	1
29	Tab	2
30	Waterproof Sealing Ring	2
31	Radial Ring	2
32	Iron Bushing	2

Part	Description	Qty
33	Motor Assembly	1
34	Terminal Cover	1
35	Star Screw M4 x 16	2
36	Motor Cover	1
37	Winch Mounting Hardware	4 sets
38	Synthetic Rope	1
39	Fairlead	1
40	Fairlead Mounting Hardware	2
41	Hook	1
42	Remote Control Cable	1
43	Wireless / Wired Remote Control	1
44	Rope Protecting Mat	2
45	Ground Cable	1
46	Disconnect Switch	1
47	Red Hook Strap	1
48	Power Cables (relocation kit)	3
49	Terminal Box	1
50	Screw M4 x 12	2
51	Terminal Box Cover	1
52	Self-Tapping Screw M4.8 x 16	3
53	Control Box Baseplate	1
54	Baseplate Mounting Hardware	4 sets
55	Extended Copper Screw	3
56	Sheath	3
57	Small Black Wire Extension	1
58	Small Black Wire Connector	1
59	Screw M6 x 12	4
60	Disconnect Switch Cable	1
61	Spacer Sleeve	4
62	Rubber Sleeve	4
63	Z-Fixing Plate (R)	1
64	Z-Fixing Plate (L)	1



Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

