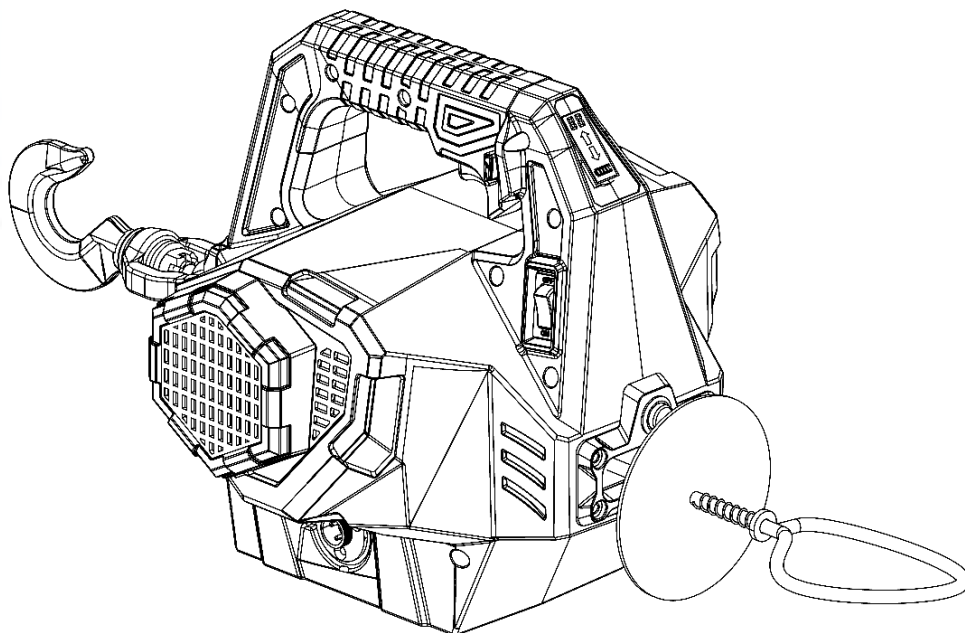


# **S<sup>®</sup>**

## **SUPERWINCH**

### **HAND HAULER UTILITY WINCH**



PART NUMBER: 1710001



SAVE THESE  
INSTRUCTIONS

# CONTENTS

| ITEM | QUANTITY | DESCRIPTION                     |
|------|----------|---------------------------------|
| 1    | 1        | HANDHAULER WINCH                |
| 2    | 1        | HAND SAVER STRAP                |
| 3    | 1        | REMOTE CONTROL (WIRED/WIRELESS) |
| 4    | 1        | REMOTE CONTROL CABLE            |
| 5    | 1        | BATTERY                         |
| 6    | 1        | BATTERY CHARGER                 |

ITEM 1

A black handhauler winch with a blue strap and a coiled cable.

ITEM 2

A blue hand saver strap with the SUPERWINCH logo.

ITEM 3

A black remote control with a coiled cable.

ITEM 4

A black remote control cable with a connector.

ITEM 5

A black battery with orange accents.

ITEM 6

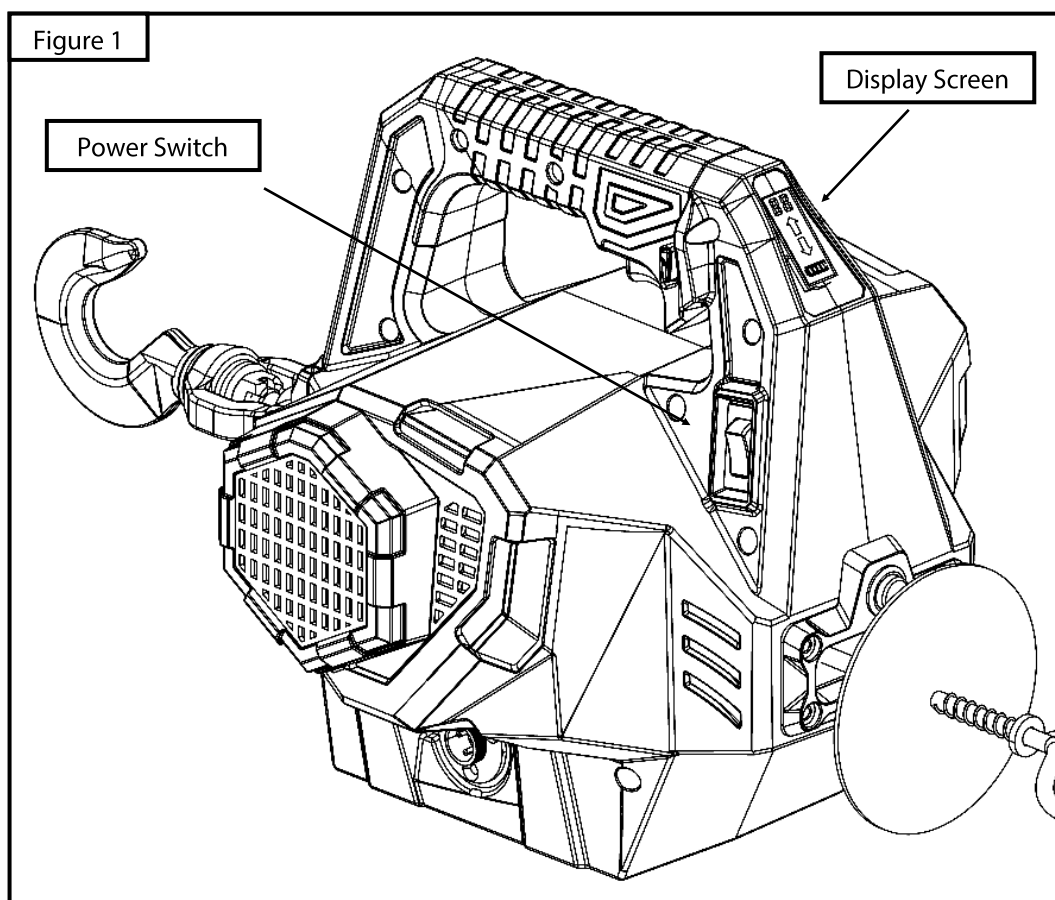
A black battery charger with a coiled cable and a connector.

# WINCH PREPARATION AND CONTROLS

1. Remove contents from box, verify if all parts listed are present and free from damage. **Failure to identify damage before use could lead to a rejection of any claim.**
2. Carefully read and understand all instructions before attempting to use the winch.

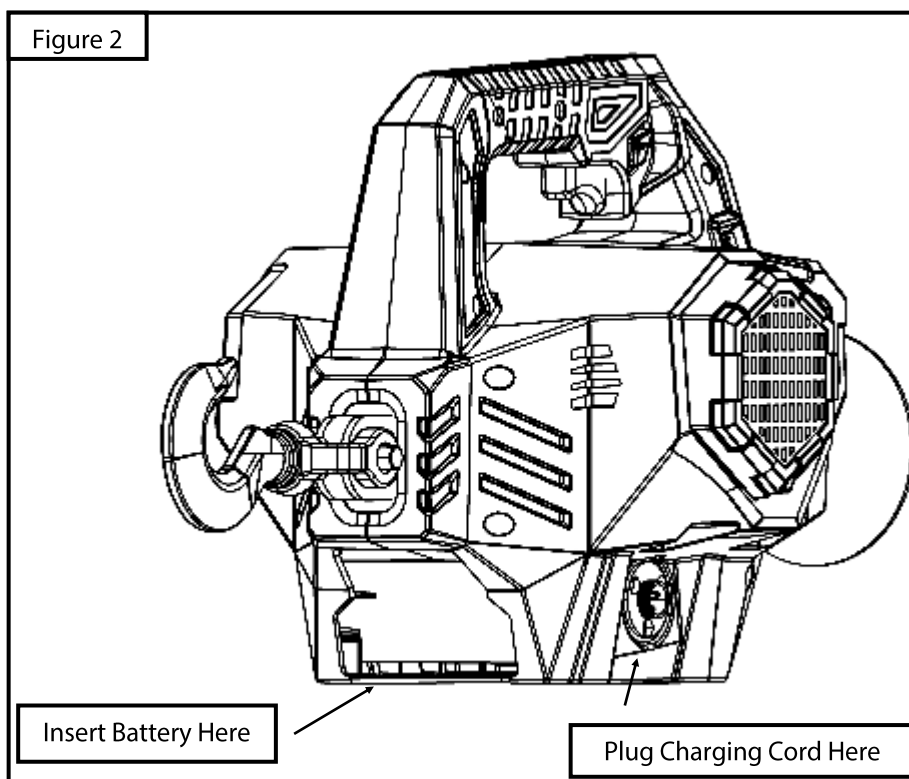
## *Preparing the Winch for Use*

3. Start by verifying that the winch's main power switch is in the off position. See Figure 1.



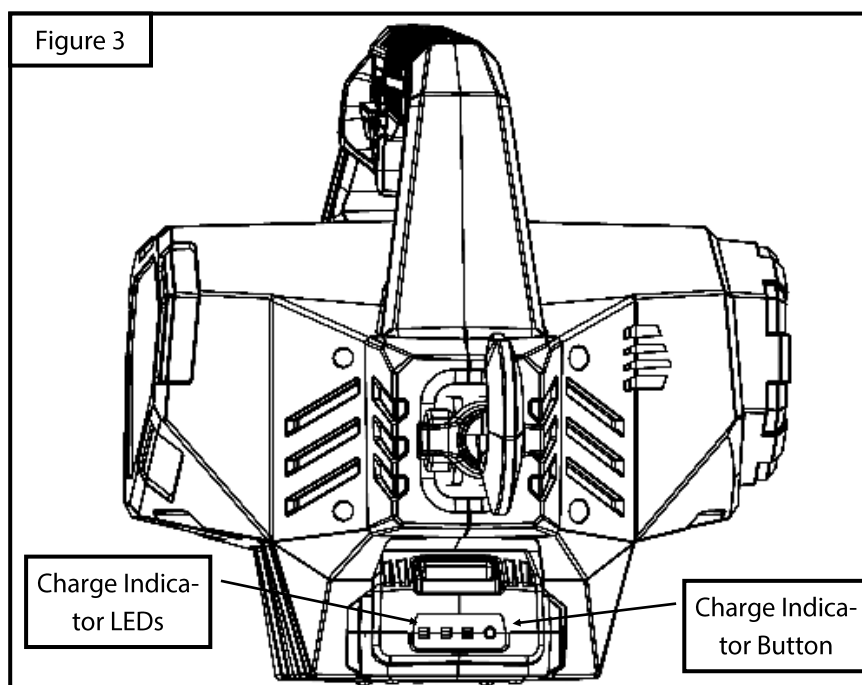
3. Remove the winch's 25 Volt DC lithium battery from its packaging and insert it into the battery slot on the backside of the winch. Be certain the battery locks into position. Note: The winch acts as a battery charger. No separate charger is necessary or is provided. See Figure 2.
4. Plug the charging cord into the socket on the side of the winch. Tighten the locking ring to retain the cord. Plug the opposite end of the cord into a 120V outlet.

Figure 2



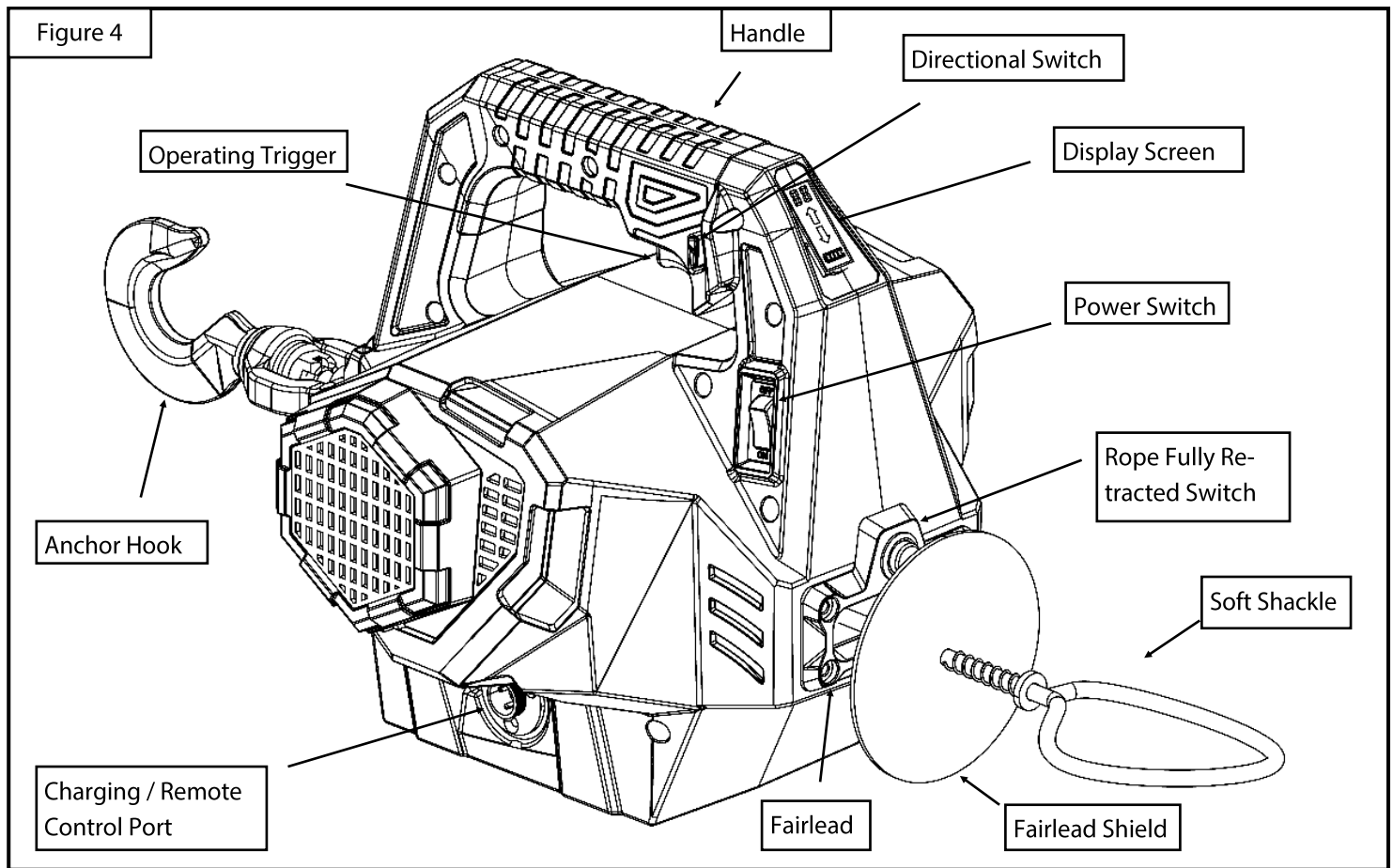
5. With the battery still installed in the winch verify the battery's charge by pressing and briefly holding the button on the right side of the battery. Three green lit LED lights indicate a full charge. The charging cord may now be removed. The winch is now ready for use. See Figure 3.

Figure 3



## Operating the HandHauler Winch

6. Familiarize yourself with the winch and its controls. Refer to Figure 4.



7. **Spooling the rope out (no load)** a) Turn the power switch to the on position. b) While grasping the winch with your right hand depress the directional switch with your thumb until it clicks into the spool out position. c) With your left hand grip the rope between the Fairlead Shield and the Soft Shackle. Maintain tension on the rope while depressing the Operating trigger. The winch will spool out until the trigger is released. **Caution—Always keep hands, jewelry and articles of clothing away from the fairlead!** It is important to maintain a light even pressure on the winch rope while unspooling in order to prevent winch rope entanglement.
8. **Spooling the rope in (no load)** a) Turn the power switch to the on position. b) While grasping the winch with your right hand depress the directional switch with your finger until it clicks into the spool in position. c) Maintain light tension on the rope while depressing the Operating trigger. The winch will spool in until the trigger is released. **Caution—Always keep hands, jewelry and articles of clothing away from the fairlead!** It is important to maintain a light even pressure on the winch rope while spooling in order to prevent winch rope entanglement.
9. **Spooling the rope in/out (loaded)** - While operating the winch under load it is ***important to make use of the supplied remote*** so that a person may maintain a safe distance from the winch as well as the object being moved. For convenience the supplied remote may operate either corded or in wireless mode.

9. **Utilizing the remote (wireless)** - Press and hold the ON/OFF button in the center of the remote until the LED above it flashes and turns solid (if the light does not turn solid check the internal battery). To spool in press and hold the IN button. The winch will spool in until the button has been released or the Rope Fully Retracted Switch has been tripped. To spool out press and hold the OUT button. **Refer to Figure 9. Important—Release the OUT button immediately if the red portion of the winch rope becoming visible. Refer to Figure 10.** The red portion of the winch rope signifies that very little rope remains wrapped on the winch drum. Spooling out past this point creates a hazardous condition.
10. **Utilizing the remote (corded)** - Attach one end of the supplied remote cable to the port on the remote. Secure the opposite end to the Charging / Remote port on the winch. **Refer to Figure 11.** The remote is now ready for use (no need to hold the ON/OFF button). Otherwise use the remote as described in step 9 above.

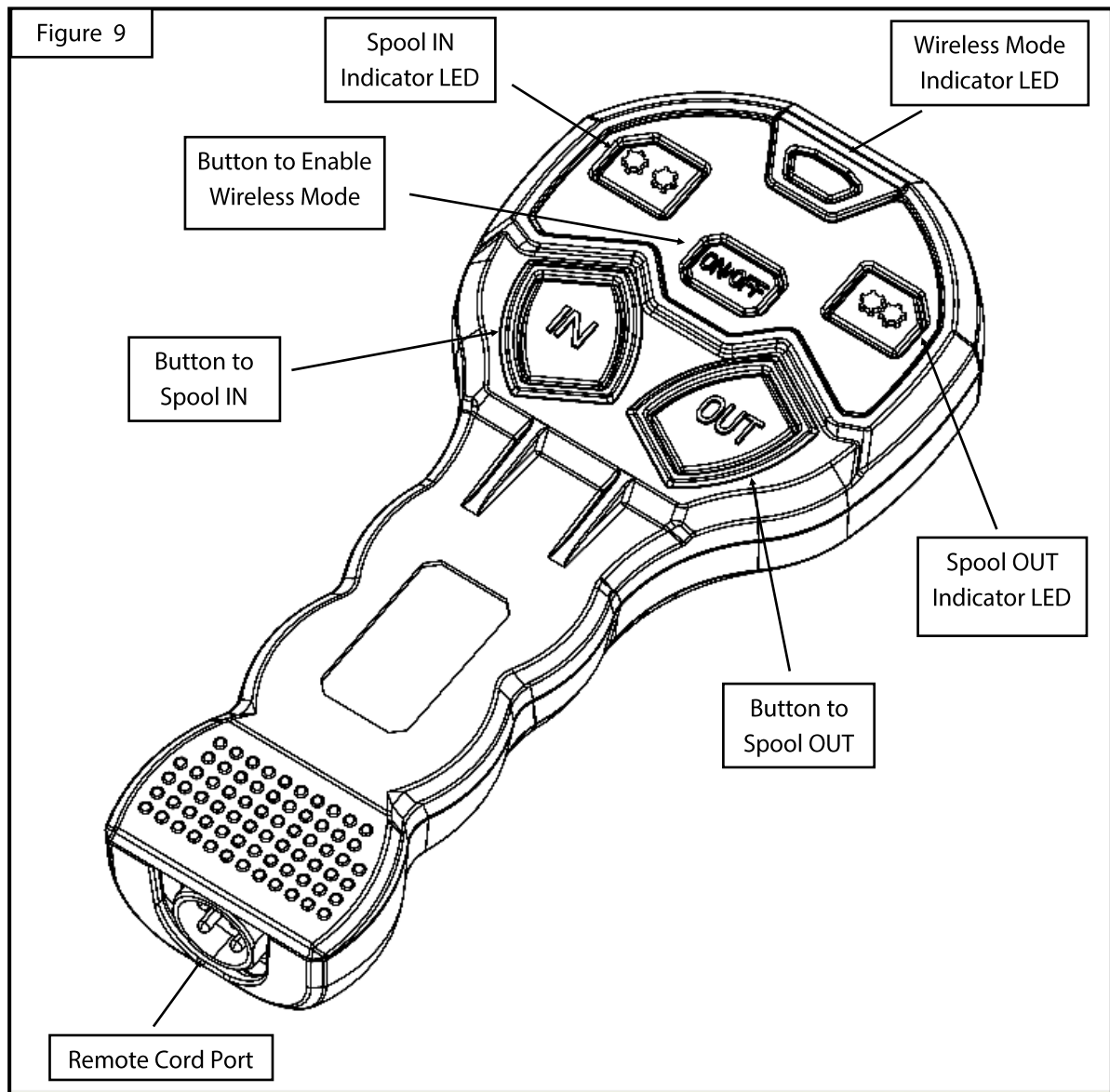


Figure 10

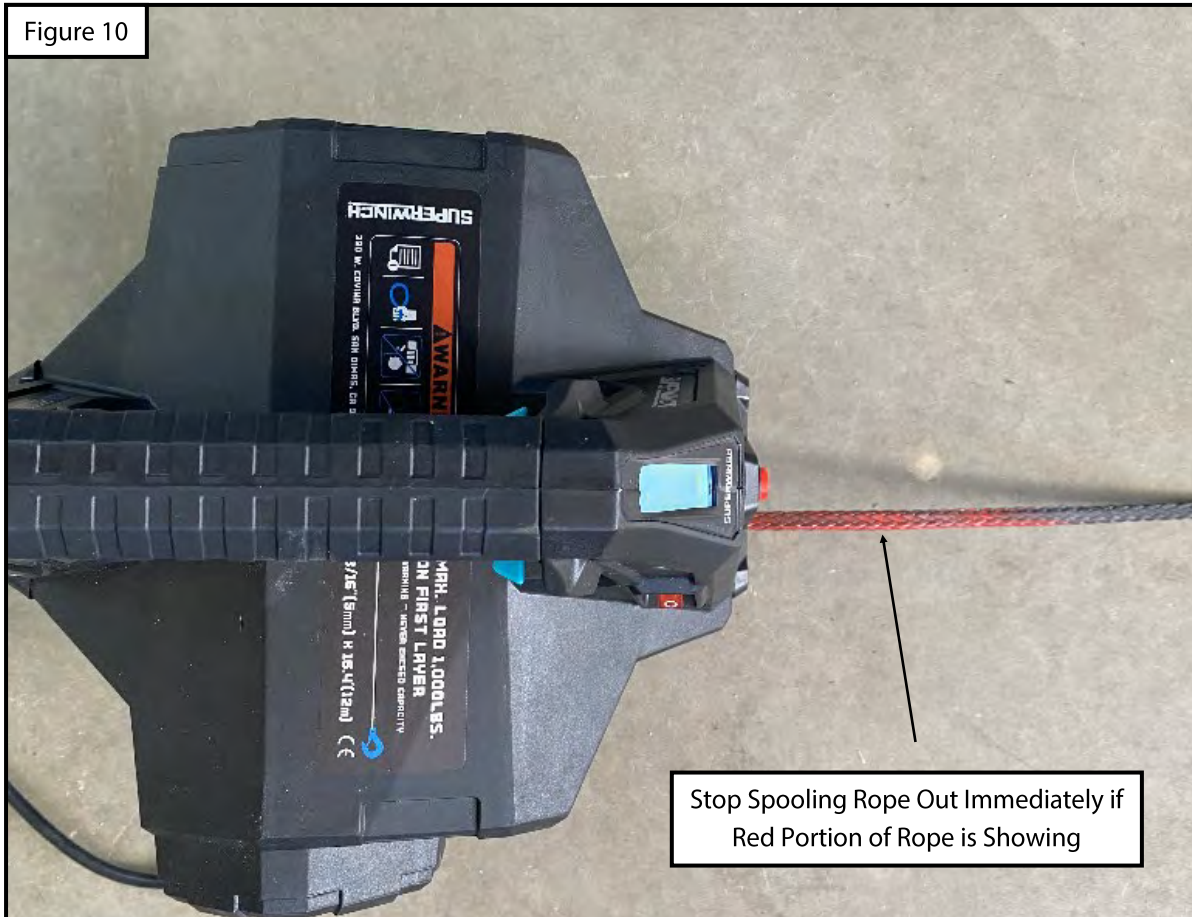


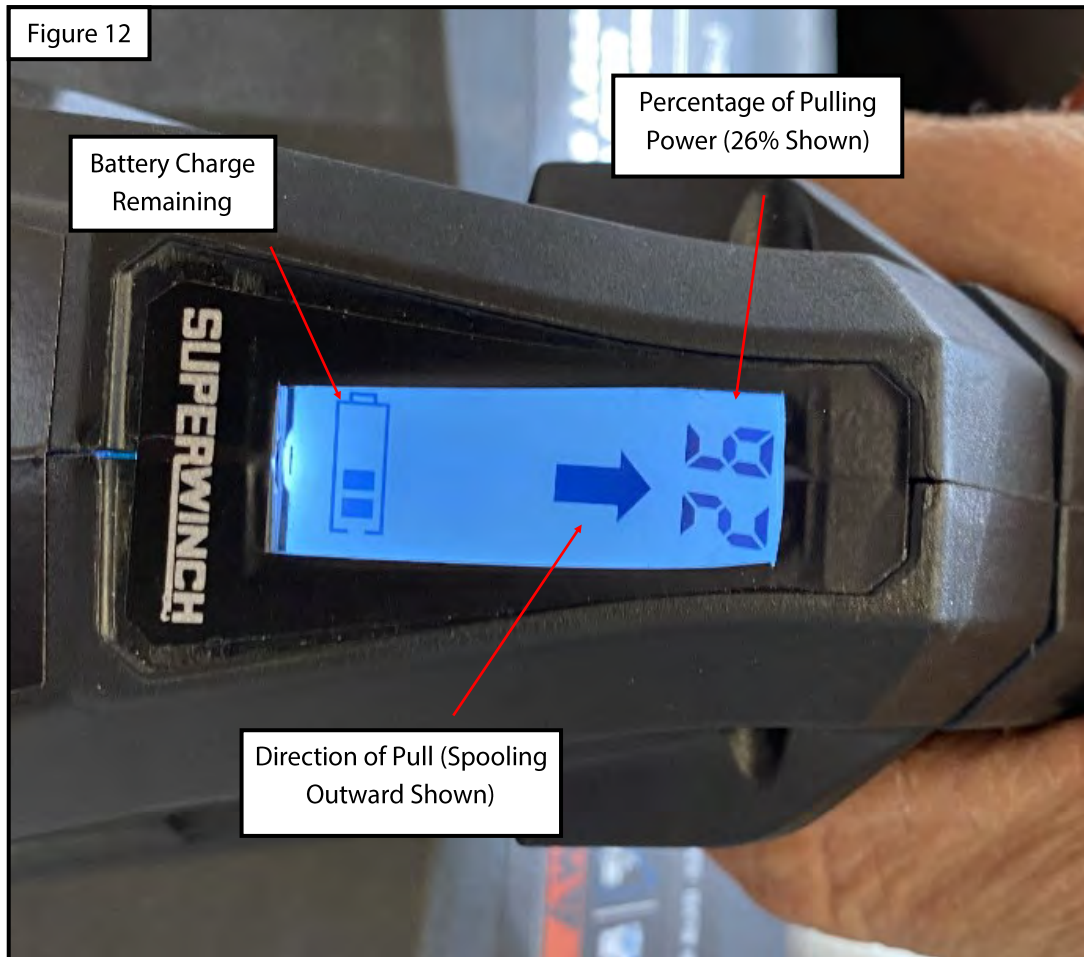
Figure 11 - Remote Connected to the Winch. Ready for use.



## Display Screen

11. The display screen provides the following information : Refer to Figure 12.

- Percentage of Pulling Capacity
- Direction of Pull
- Battery Charge
- Error Codes



## Error Codes

12. In case of malfunction or warning the display screen provides the following error information :

- **E1** – “Rope Fully Retracted Switch” triggered. Stop spooling the winch rope inward.
- **E2** - The rope has reached its outward limit. Stop spooling the winch rope outward.
- **E3** - The winch has exceeded maximum load rating. Reduce the load or utilize a snatch block.
- **E4** - Battery voltage has dropped below operating level. Recharge the battery.
- **E5** - Fuse has blown. Follow fuse replacement instructions.
- **E7** - The winch’s motor temperature has exceeded safe operating level. Allow the winch to cool.

# REPLACING THE FUSE

11. In case of an E5 Error Code the winch's fuse will need to be replaced. The HandHauler 1000 utilizes a common 40 amp ATC fuse available at most auto parts stores. Steps for fuse replacement are as follows:
- Remove the battery from the winch.
  - Pull the rubber anchor hook cover off the back of the winch.
  - Using a razor knife carefully slice the "Superwinch" label pasted above the fairlead along the seam of the winch housing halves.
  - Remove the (4) T-20 Torx head screws retaining the fairlead cover to the winch's housing. **Refer to Figure 13.**
  - Remove the (13) #2 Phillips head screws holding the winch housing halves together. Note: Two of the screws are hidden beneath the "Hand Hauler 1000" label. **Refer to Figure 14.**
  - Once all the fasteners have been removed carefully split the halves of the winch. It is recommended to make note of the wire positions and connections. It is possible for them to come loose. While changing the fuse. **Refer to Figure 15.**
  - Pull out the blown ATC fuse and replace it with a new one. **Refer to Figure 16.**
  - Before reassembling the winch halves ensure that the turquoise colored directional switch is properly positioned on the directional switch nipple. **Refer to Figures 17a & 17b.**
  - Reassemble the case halves, fairlead cover and rubber anchor hook cover. Install battery.

Figure 13—Remove the (4) T20 Torx screws retaining the fairlead cover



Two screws are hidden behind this label.



Figure 14—Remove the (13) screws holding the case halves together

Figure 15—Replace this  
40 Amp ATC fuse.

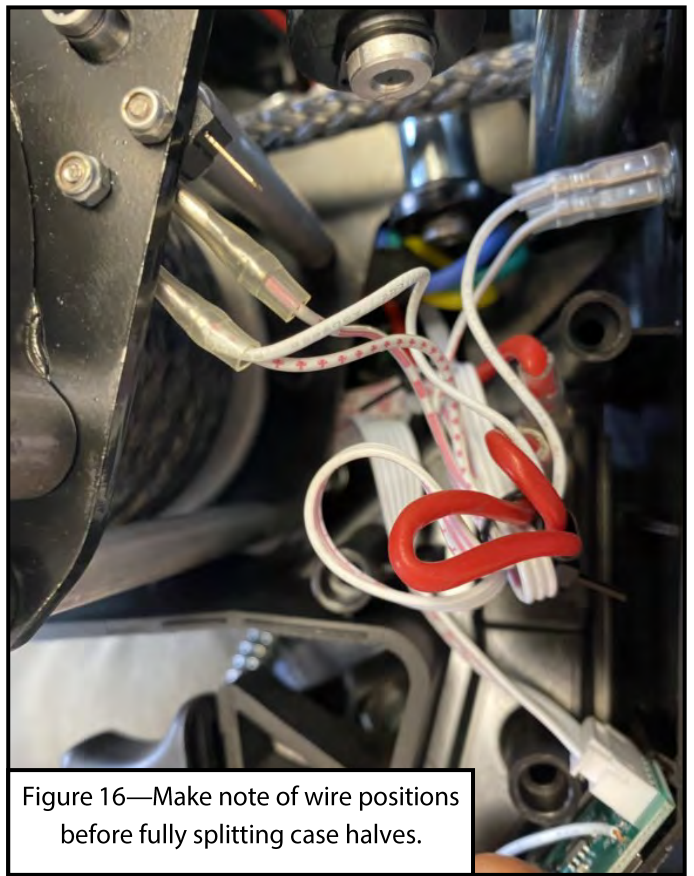
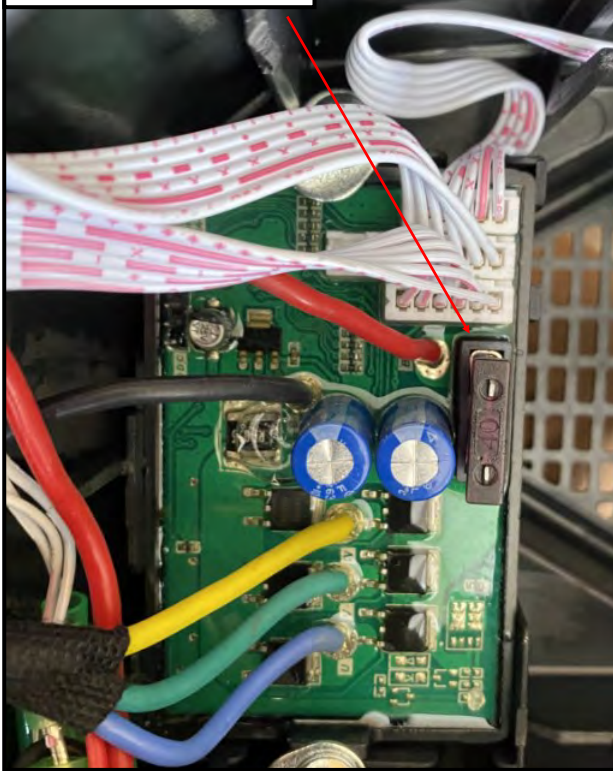
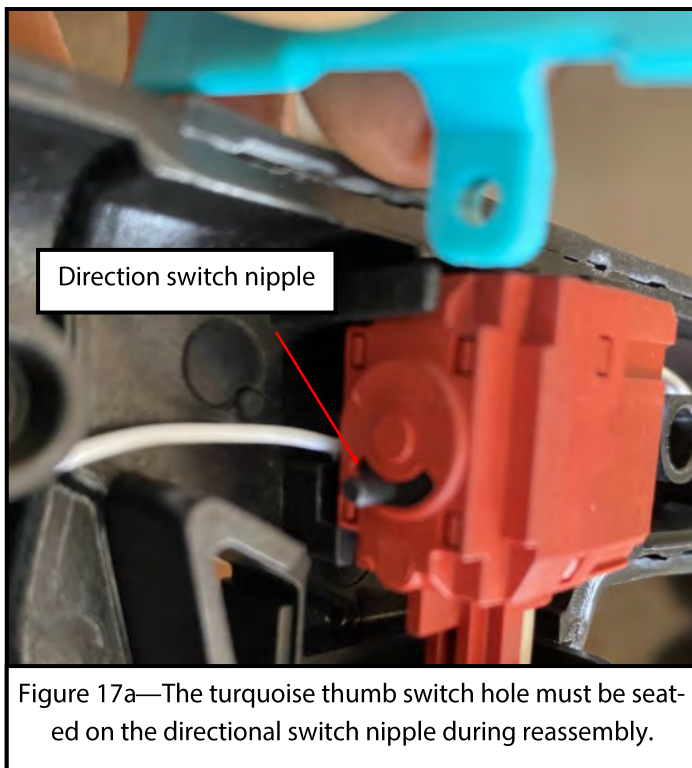


Figure 16—Make note of wire positions  
before fully splitting case halves.



Direction switch nipple

Figure 17a—The turquoise thumb switch hole must be seated on the directional switch nipple during reassembly.

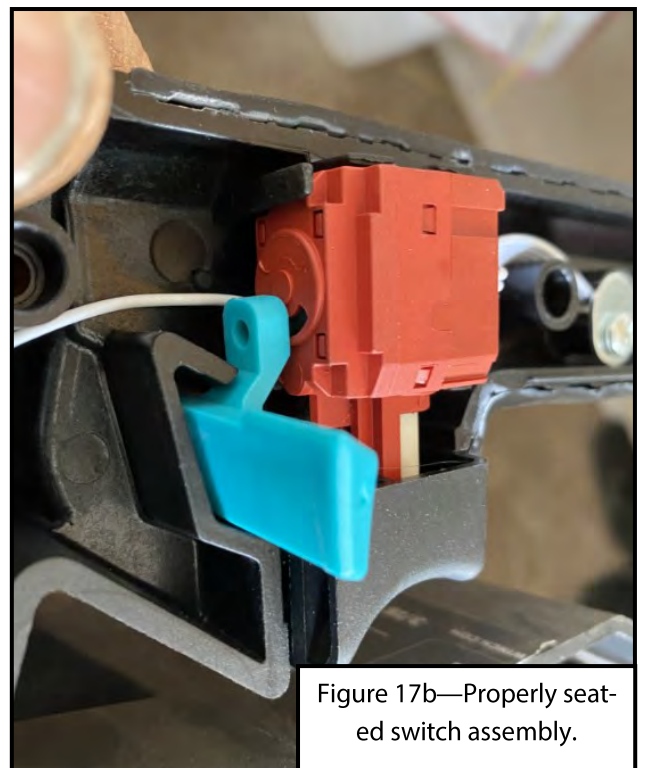
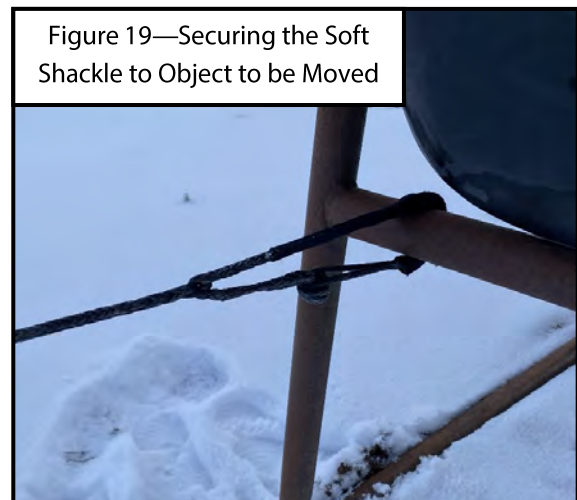


Figure 17b—Properly seated switch assembly.

# PROPERLY WINCHING A LOAD

11. Secure the winch's Anchor Hook to a solid, immobile object. This may be a large tree, solid post or a vehicle's tow hook. If there is any question of the strength of the anchor point do not use it for winching. Utilize appropriately load rated rigging materials to accomplish this. **Refer to Figure 18.**
12. While maintaining light tension on the winch rope spool the winch line out until there is adequate rope length to reach the object being winched. **Caution: Always keep hands, clothing and jewelry away from the winch's fairlead! Never continue spooling the rope out once the red portion of the rope becomes visible!** **Refer to Figure 10.**
13. Utilize the Integrated Soft Shackle to secure the rope to the object being winched. **Important: Be certain that the Shackle and/or Rope are not touching or rubbing against sharp surfaces.** If the only available recovery point is a sharp hard surface utilize solid rigging such as a steel shackle to avoid damage to the winch's soft shackle. **Refer to Figure 19.**
14. While maintaining light tension on the winch's rope spool in the rope line until it becomes taut.
15. While standing off to the side and well away from the winch, winch rope or object being winched utilize the remote in wireless or wired mode in order to pull the object. **Refer to Figure 20.**



# USING THE SOFT SHACKLE

16. Never secure the Soft Shackle to a sharp object. The sharp object may damage the soft shackle under load. In a case where a sharp object must be utilized as a winch point use hard rigging such as a steel shackle. See Figures 21a & 21b.
17. Always position the protective sleeve such that the core rope portion of the soft shackle does not directly contact the winch point.
18. In order to ensure a secure connection with the soft shackle the choking loop should be threaded through the loop below the knot then choked around the knot. See Figures 22a, 22b & 22c.

Figure 21a –Never attach the soft shackle to a sharp edge



Figure 21b –Utilize a steel shackle when securing the winch line to sharp edges



Figure 22a –First thread the choking end through the loop beneath the choking knot



Figure 22b –Next loop the choking end back over the choking knot

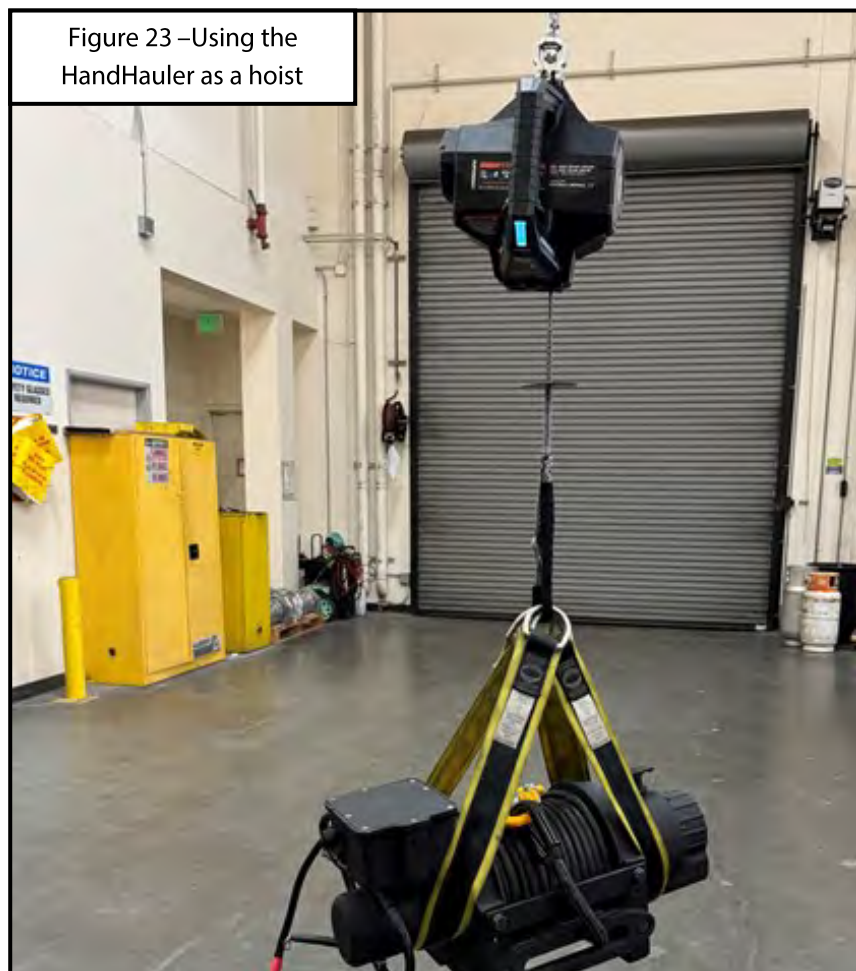


Figure 22c –Pull the soft shackle tight to secure



# USING THE HANDHAULER AS A HOIST (LIFTING)

19. The HandHauler 1000 is rated at 800 pounds maximum for safe lifting. This rating is in place in order to maintain a 4 to 1 safety factor when lifting object. ***Never attempt to lift an object that weighs more than 800 pounds.***
20. Always use rigging equipment rated for lifting/hoisting. Never use rigging equipment that is damaged in any way. Never use rigging equipment rated to lift less than 800 pounds.
21. Never stand near or beneath the object being lifted.
22. While hoisting always stand a safe distance away from the object being lifted while utilizing the supplied Remote Control.
23. Always secure the HandHauler to a fixed object capable of holding at least 3200 pounds in order to maintain a 4 to 1 safety factor.
24. Refer to Figures 22a, 22b and 22c for proper use of the soft shackle.



# GENERAL WINCHING INSTRUCTIONS

Every winching situation has the potential for serious personal injury. To minimize that risk, read this User's Guide carefully. Familiarize yourself with the operation of your winch before using it. Your constant focus on good judgment and winch safety are of great importance. Your winch includes safety icons, warnings and cautions in multiple areas. Please observe carefully and refer to these warnings include below. The winch contains moving parts and sharp edges which can result in cuts, burns, lacerations and/or amputations.



1. Read Owners Manual



2. Electric Shock Hazard



3. Fire and Burn Hazard



4. Hot Surface Hazard



5. Moving Parts Hazard



6. Sharp Edge Hazard



7. Always Use a Handsaver Strap



8. Always Keep Clear of Winch, Rope and Load



9. Always Properly Seat Load in Throat of Hook.



10. Always Use a Shackle or Strap When Attaching the Hook to an Anchor Point



11. Always Wear Personal Protection Gear.



12. Always Wear Heavy Protective Gloves.



13. Never Apply Load to Hook Tip or Latch.



14. Never attach the hook back on to the rope.



15. Never Put your fingers into the hook.



16. Never touch the rope when in tension or under load.



17. Never use winch as a hoist.



18. Never use a winch to secure a load in place.



19. Never use a winch to lift or move people.



20. Never wind rope over top of drum.



21. Risk of explosion.

#### OPERATION WARNINGS

- Improper use or overloading of the winch can result in a release of load or rope failure.
- Before winching a load, be sure the freespool is fully in the engaged position.
- Always apply load to the throat (center) of the hook.
- Always be certain anchor will withstand load.
- Always ensure hook latch is closed and not supporting load.
- Always operate the winch with an unobstructed view of the winching operation.
- Always seat load in throat of hook. Always take your time when rigging and include a reasonable factor for safety. Never operate a winch with less than 5 turns of wire rope around the winch drum. Never operate a winch with less than 8 turns of synthetic rope around the winch drum.
- Always use a hook with a latch. Never apply load to hook tip or latch.
- Never disengage the freespool while winch is under load.
- Always mount winch so that rope feeds through fairlead on front of winch parallel to the mounting surface and does not rub across housing or base.
- Always use tackle, hooks, pulley blocks, straps, etc. rated in excess of the load capability of the winch. Never exceed the winch rated capacity.
- Never hook the rope back onto itself, use a sling or strap to secure to anchor point.
- Never mount the winch inverted (base upward) or put the winch mounting hardware in a direct tension condition.
- Always inspect the winch rope/cable before use. Ropes and cables must be replaced if damaged.

## RIGGING AND WINCHING

Rigging is the act of connecting the pulling mechanism to the anchor point. Rigging often involves materials such as tree saver straps, nylon straps, pulley blocks, and shackles. The use of these materials is discussed later in this section. Regardless of the materials used, selecting the anchor point is vital.

- In some circumstances the vehicle on which the winch is mounted is the anchor point. In these situations the vehicle with the winch is not stuck. It is being used to move another object. When anchoring the pulling vehicle, set the parking brake and block or chock the wheels. Keep the vehicle's foot brake depressed and place the automatic or manual transmission in neutral. Always consult vehicle's owner's manual for load capacity and other specifications of your vehicle.
- In a vehicle recovery situation where a winch equipped vehicle is NOT being used as the anchor point, always select a solid object that is more than adequate to resist the winch loads applied. This could be a tree, rock or other vehicle. If hooking to a tree or rock always use a tree-saver strap. If using a second vehicle as an anchor point, always be sure that the tow point on the vehicle is securely mounted to the vehicle's frame and will fully resist the winch load.
- The anchor point selected should create a straight pull for the winch, as much as possible in the given situation. Long pulls at side angles can damage your winch or rope. In all cases, NEVER wrap the winch rope around a load or anchor point and connect the hook back to the rope. ALWAYS use a strap or tow point to connect the winch hook to the load or anchor point.
- For trailering applications, always be sure that the tow point on the vehicle or item to be winched will resist the winch load applied, and will not damage the vehicle, item, or winch rope. Align an unobstructed path to the car that you are loading. Minimize contact with the wire or synthetic rope and the trailer or other objects.
- Now that you have selected an anchor point you can begin rigging. No two winching situations are the same. Always wear proper safety equipment suitable to your unique situation.
- When winching, use a winch dampener (See Figure 23), blanket, or heavy jacket to place over the winch rope, to protect people and property. This is done to direct energy to the ground in case of winch rope breakage. Monitor your rigging during winching to be sure that your dampener is not caught up in fairleads or pulley blocks. Always keep safety your top priority during winching.
- Never allow the winch rope/cable to chafe against sharp edges.
- Wear gloves while handling winch rope/cable.

Once the Rigging is set, you are ready to Winch. Always keep safety in mind during winching. Keep all observers a distance from the winching operation equal to the length of rope that is in use. For recovery applications, understand how the load you're winching will move. If the vehicle is stuck, understand why. Is the vehicle simply in slippery mud? Is an axle or skid plate caught on a rock? Understanding why the vehicle is stuck is a key point. If there is a large rock right in front of your axle, frame, or skid plate, you can winch all day and the only thing you'll accomplish is bending something, or burning out your winch (See Below). Check for obstructions. Sometimes no amount of winching forward will pull the vehicle up and over an obstacle. If the winch is struggling, re-evaluate. Remember—Sometimes the correct path out is back the way you got in.



1. Take up slack in the rope and rigging slowly.
2. Once the rope and rigging are taut, carefully review the rigging again to check for binding or obstructions.
3. During winching, apply power to the winch smoothly, and observe all parts of the winching operation while the winch is running. Watch the winch, rigging, rope, and vehicles involved. Listen to the winch for signs that the winch is pulling easily or if it is heavily loaded. Be attentive and observant at all times. If the winch appears to slow considerably or change its sound, stop powering the winch and review the situation.
4. Check the winch motor to be sure that the winch does not overheat. Allow time for the winch to cool or re-evaluate your rigging. With more practice and experience you will learn to recognize the winch's sounds and ability.



Figure 23

## De-Rigging

1. When the vehicle has been recovered or the load has been moved to a stable position and winching is complete, secure the vehicle or load and release the tension on the rope by powering cable out just enough to slacken the rope. **DO NOT USE THE WINCH TO SECURE LOADS DURING TRANSPORT.**
2. Disassemble the rigging, and return components to their storage area.
3. Ensure the cable is not kinked, or coiled up as shown in **Figure 24**. Uncoil as necessary or else **damage will occur**.
4. Power the winch IN until the hook is approximately 3 feet (1 meter) from the winch. **NEVER** hold the hook with your hand—**ALWAYS** use the handsaver.
5. Secure the hook to its stowed position (a shackle or tow hook) and jog the winch in slowly, approximately 1 second at a time, until the winch cable is snug
6. **DO NOT CONTINUE TO WINCH.** Simply snug up the rope to a secure position. Do not attach the hook to any part of the winch, such as a tie bar, freespool control, etc. Use caution if pulling the thimble or hook all the way to the fairlead, Fairlead damage, leading to rope damage may occur, a better practice is to secure the hook off to a side tow hook or other structure.

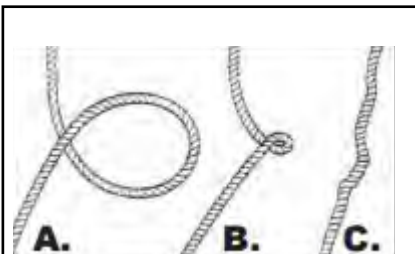


Figure 24

# WARNING

Failure to follow these instructions could lead to death, personal injury, and / or property damage.

## FASTENERS:

All SUPERWINCH supplied fasteners must be utilized and installed in accordance with the installation instructions and apply torque to the specifications as defined. **DOUBLE CHECK ALL FASTENERS BEFORE INITIAL USE, AND PERIODICALLY IN THE FUTURE TO ENSURE PROPER FUNCTION AND SAFETY.**

## EYE PROTECTION:

**ALWAYS WEAR SAFETY GLASSES OR GOGGLES DURING THE INSTALLATION PROCESS TO AVOID PERSONAL INJURY.**

## FOR CALIFORNIA RESIDENTS ONLY-PROP 65 WARNING:

Some products may contain chemicals such as DEHP, which can cause cancer, birth defects or other reproductive harm. For more info go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)



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