10,000 lb./13,000 lb./16,800 lb.
12 VOLT DC ELECTRIC WINCH

OWNER'S MANUAL
& OPERATING INSTRUCTIONS

Winch solenoid box positions and material are subject to modification.

INDIANA

GREG SMITH EQUIPMENT SALES INC.
5800 MASSACHUSETTS AVE.
INDIANAPOLIS, IN 46218

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DELAWARE

GREG SMITH EQUIPMENT, INC.
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GREG SMITH EQUIPMENT SALES INC.
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NORCROSS, GA 30071

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Atlas Winch Limited One year Warranty

Atlas offers a limited one (1) year parts only warranty for all Atlas electric 12V winches sold in the USA. This warranty is extended only to the original retail purchaser. This limited one year warranty applies to manufacturing defects in materials and workmanship on all mechanical components of the Atlas winch. This limited one year warranty does not apply to electrical components consisting of motors, solenoids, and remote transmission devices. These electrical components carry a 90 day warranty.

Atlas electric winches are designed, manufactured, and intended for personal recreational self recovery usage. Although built for years of demanding service, the Atlas winch warranty is void when the winch is used for commercial or industrial applications.

The mounting plates and roller fairlead are warranted against defect in material and workmanship. The wire cable assemblies are warranted against defect in workmanship and materials to the original purchaser, but carry no further warranty after the initial use.

Greg Smith Equipment Sales will repair or replace, upon inspection of such parts, those parts that have been found to be defective in material or workmanship. Parts must be returned to Greg Smith Equipment (freight prepaid by customer) for inspection. The warranty does not apply to those products or parts that have been altered from their original configuration. Warranty does not apply to those products that have been misused or improperly installed.

The limited warranty does not cover any product or part that has been damaged by accident, overloading, misuse, collision, improper installation, modification, or abusive service. If the winch is used for any vertical hoisting operations, the warranty is void.

Greg Smith Equipment shall not be responsible or liable for any indirect or consequential damages to persons or equipment. These consequential damages may include, but are not limited to, lost profits or loss of use, down time or personal injuries resulting from the incorrect use of a winch.

Greg Smith Equipment Sales and Atlas Winch reserve the right to change the product design and specifications without notice.

The enclosed warranty registration cards must be returned to Greg Smith Equipment Sales **within thirty (30) days of the time of purchase for the warranty to be valid**.
The warranty applies solely to the original purchaser of the winch and remains valid for the original installation of the winch

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Note: It is extremely important that you read and familiarize yourself with all procedures before beginning assembly and operation of your new Atlas Winch. These instructions are very straightforward and easy to understand. If you have questions during the assembly or operation procedure, you may call our office for technical help. Our technicians will be glad to assist you with any issues that may arise during the assembly or operation procedure; HOWEVER, they do not have the time to read through the instruction manual with you. You must read the instruction manual thoroughly and become familiar with the operation of the winch BEFORE our technicians can offer assistance.

SAFETY PRECAUTIONS:

The operator of the winch must observe safety precautions for all persons (including the operator) in the area of the operating winch. Extreme caution must be used when operating a 12 volt DC winch in a recovery situation. If you are not familiar with the operation of a winch or winch recovery operations, please seek professional guidance before you begin winch operations. This manual serves as only a guide to help the owner/operator become familiar with their winch. The distributor of this winch cannot guarantee personal safety if the winch operator uses the winch in an unsafe or not recommended method. Read the following instruction manual carefully before attempting to operate your winch.

1. Dress Properly:
   - Don't wear loose clothing or jewelry when operating the winch. Loose fitting clothes, jewelry, or long hair may be caught in the operating winch resulting in serious injury or death.
   - Wear leather gloves when handling the wire rope winch cable. Do not handle cable with bare hands, as broken wires can cause injuries.
   - Non-skid footwear is recommended.
2. Keep a Safe Distance from the winch or vehicle:
   - Make sure that all persons stand clear of loaded (under tension) winch cable and the load being pulled. If the cable breaks or the anchor hook slips, the cable (under load) can whip back causing serious personal injury or death.
   - Don't step over the cable when it is attached to another object. The winch could be engaged at any moment and the loose cable would be pulled up (become taut) causing injury. Do not step over a taut cable (one that is being used) because of the chance of hook or cable failure.
   - Keep proper footing and balance at all times. Do not use the cable as a hand support to walk between the vehicle and the pulled object. When operating a winch on a wet or slippery surface, take extra care to exercise all safety precautions.
3. Protect the wired power cord:
   - Never carry your winch by the power cord. Use care when disconnecting the cord from the winch's control box. Do not yank nor force the cord from the receptacle.
   - Keep the power cord in a safe place when not in use. Do not cut the cord nor expose it to extreme heat.
4. Do not overwork the winch:
   - If the winch motor becomes too hot to touch, stop the operation.
     Let the motor cool for a few minutes.
   - Don't maintain power to the winch if the motor stalls.
     This will shorten the life of the motor.
   - Make sure your remote switch is properly activated and TURNED OFF when not in use.
   - Don't exceed maximum line pull ratings shown in tables. Shock loads, resulting from "snatching" the object, must not exceed the maximum line pull ratings.
5. Do not leave winch in gear:
   - Winch clutch should be disengaged when not in use and fully engaged when in use.
6. Check your winch for damaged or worn parts:
   - Before using, please check your winch to make sure that all parts are in good repair and operating properly. Damaged parts should be properly repaired or replaced by CUSTOMER or replaced by a competent professional. Operating the winch with damaged or "compromised" parts may result in injury.
7. Winch repair:
   - Use only factory authorized parts when repairing your winch or replacing accessories or parts. Failure to use quality repair parts may result in winch damage or personal injury.

8. Spooling the wire rope (cable) onto the winch drum:
   - Heavy-duty leather gloves must be worn when spooling the cable onto the winch drum.
   - To make sure the cable is wound correctly onto the drum, it is necessary to keep a (500 LB) load on the cable. The simulated (500 LB.) can be created by one person. You must have proper foot wear and be on a level DRY surface. If you slip, you can get hurt! Spool out (either by power or manually) the wire cable on the winch until you get to the red mark on the cable. Do not spool past the red mark. Keep the wire cable in front of the winch. It is best to spool back onto the drum about 10-15 feet of cable at a time. Make sure you are wearing thick leather gloves. Grab the wire cable in one hand and the remote (corded or wireless) in the other. Lean back slightly (standing) as you grip the cable. Exert pressure on the cable as you slowly walk toward the winch as the drum draws in the cable. Keep the cable centered in the fairlead roller and make sure that the wire rope cable is spooling evenly across the face of the drum. Keep a constant pressure on the line. Turn off the winch after spooling the initial length of cable and repeat this procedure until all of the wire rope cable (except 2 feet) is properly spooled onto the drum. Make sure you disengage and turn off the winch between each time you spool the 10-15 feet of cable on the drum. Do not allow the cable to slip through your hands. Do not get your hands any closer than three feet from the roller fairlead with the winch under power. Injury may result.
   - Disconnect the wired remote control (or turn off the wireless remote) and finish spooling the cable by rotating the drum by hand. The clutch needs to be disengaged to allow the drum to "free spool". For hidden winches, (positioned behind a truck grill), it will be difficult to reach the drum to hand spool the last length of cable. You must use 12 V. power. BE VERY CAREFUL!

WARNING:

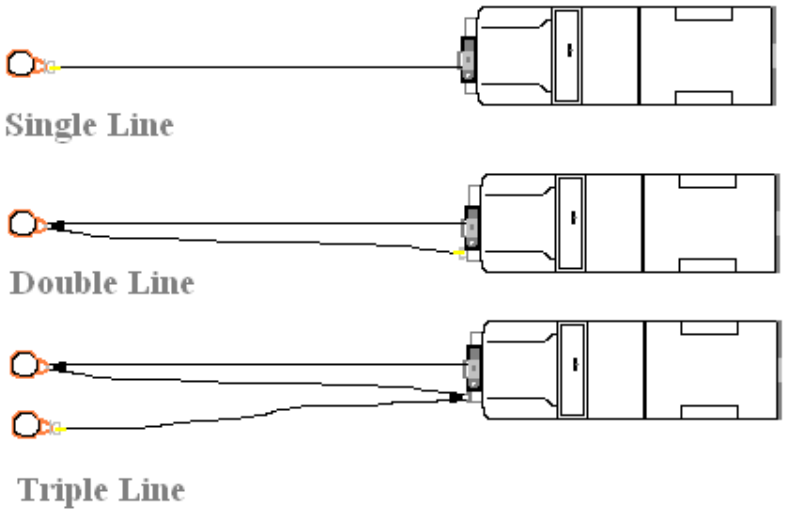
The use of any other accessory or attachment other than those recommended in the instruction manual may present a risk of personal injury, winch damage, or vehicle damage.

HOW TO KEEP YOUR WINCH OPERATING PROPERLY:

Please read the following carefully before attempting to operate your winch in a "real-world" situation. Remember: Practice and common sense will make you a better winch operator.

1. The cable may not spool evenly onto the drum during certain winching operations. This is a very common occurrence. Make sure that the cable is not "piling up" at just one end of the drum. If "piling-up" of the cable at one end becomes an issue, relieve the load on the winch (chock the vehicle so it cannot move) and move the anchor point until the cable begins to "even-out" over the winch drum. If there is an uneven spooling of the cable, (and the cable is not contacting any part of the winch when the drum is revolving), you may continue to winch the vehicle. The cable may be spooled properly after the winching operation is completed.
2. Keep the remote control (both the wired and the remote) inside your vehicle until needed. Always make sure you have spare batteries for your wireless remote. Keep the male and female ends of the wired remote clean and undamaged.
3. Do not engage the clutch with the winch motor running. The motor must be stopped BEFORE you engage the clutch.
4. Do not connect the hook around the pulling cable. The hook can cause damage to the cable when it "pulls against itself".

5. Always use a sling or chain to connect to the object being pulled. Make sure the sling or chain is properly rated correctly to withstand the pulling force. Remember that a “double line pull” exerts greater force than a “single line pull”.



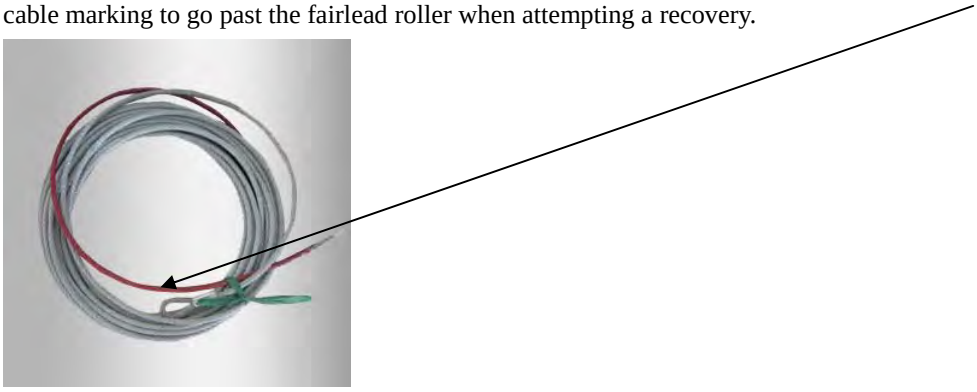
6. When operating your winch, stay at a safe distance from the winch and the line of travel between the winch and the pulled object. Stop the winching process every three of four feet to make sure the cable is being spooled correctly on the winch drum.
7. Do not attach the tow hooks “on a double line pull” back to the winch mounting plate. The hooks must be attached to vehicle frame as close to the winch as possible to maintain as straight as possible “double line pull”.
8. The use of a snatch block helps to increase the pulling power of the winch. The snatch block is essential for an effective “double line pull” operation. The pulling power of the winch is increased by up to 80% and the winching speed is cut in half.

9. Make sure to use the correct rated winch accessories when pulling. Bow shackles, snatch blocks, tree savers, and other “snatch” ropes and accessories should be used with extreme caution and all safety procedures must be observed

Bow shackles

Tree saver strap

10. Make sure that at least five wraps of cable remain on the winch drum at all times. The five wraps are necessary to keep the line properly attached to the winch drum under a load. All winch cables have RED markings on the cable to identify that portion of the cable that must be left on the drum. (Five cable wraps remain on the winch drum) Do not allow the RED cable marking to go past the fairlead roller when attempting a recovery.



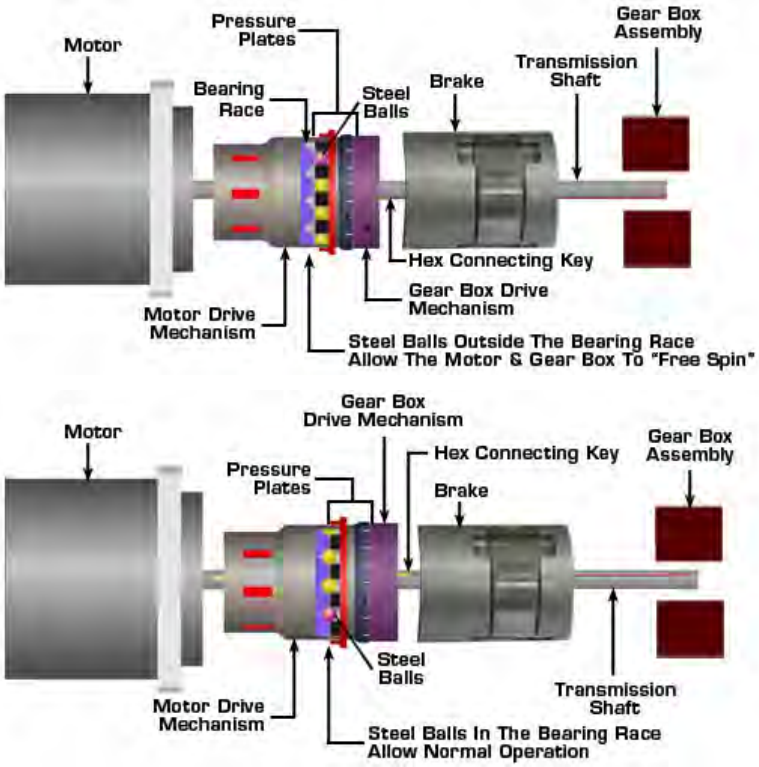
11. Make sure you understand that the greatest pulling power of your winch is achieved on the innermost layer of your winch. To get the most pulling power from your winch, you need to have the fewest "wraps" possible around the winch drum. Spool off as much cable as possible before making your "hook-up". . (You must leave at least 5 wraps minimum on the winch drum-look for the red marking on the cable and do not let the red mark go past the fairlead roller). You may need to use a snatch block and double line arrangement to make your winch as efficient as possible.
12. Draping a heavy blanket or tarp over the extended winch cable is recommended. These draped items will act as a "dampener" if the line should break or the hook comes loose.

13. Tight and well spaced spooling avoids cable binding. Cable binding occurs when a load is applied and cable strands are pinched between or on top of other strands. When this happens, alternatively power the winch in and out a little at a time. Do not attempt to free a bound cable (under load), by hand. This can result in injury. If the pulled vehicle is on an incline and exerting pressure on the line; chock the wheels to remove the line pressure BEFORE you attempt to free the bound or poorly wrapped cable on the drum.

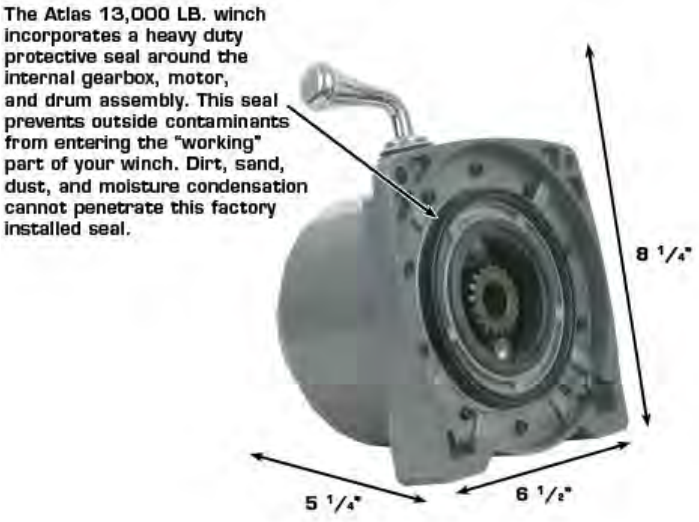
14. Be sure that the 12 volt battery with a minimum of 650 Cold Cranking Amperage (used to power the winch) is in good condition. Avoid contact with battery acid or other contaminants. Always wear eye protection when working around a battery. Always run the vehicle engine when using the winch so that the alternator can charge the battery during winch operation.
15. Winch Cable:
    - Be sure that the cable is in good condition and is attached properly.
    - Do not use the winch if cable is frayed or appears to have been compromised.
    - Do not move the vehicle (with the winch attached) to pull a load. The winch cable is not a tow or snatch strap. The cable is designed to exert a constant force on a moveable object. Replacement cable must be of the same rated capacity. (as the winch)
16. The life of the cable is directly related to the use and care it receives. The cable (before its first use and after all uses) should be wound on the drum under an approximate load of 500 LB. This procedure was discussed earlier in the manual. If the inner wraps are not tightly wound, the outer wraps will exert a force on the inner wraps and cause damage.
    - The first time you use the winch should be in a relaxed and non-recovery situation. We will call this a practice or familiarization run. Spool out the cable (either under power or manually) until the red cable mark appears (leaving about five wraps on the drum). Using the proper procedure, rewind the cable onto the drum. This procedure will help to increase the tension of the cable wrap around the drum and help to “stretch” the new cable to create a tight cable wrap. This simple procedure will extend your cable life and help you to become familiar with the operation of the winch
    - When the cable is replaced, if equipped with screw lock, be sure to apply Loctite (or an equivalent locking compound) to the cable clamp thread. Tighten the clamp screw properly but do not over tighten. Loctite 7471 Primer and 222 Thread Lock are recommended.
17. Do not exceed the pulling limits of this winch. Make sure you understand the “true weight” or “true load” of what you are attempting to move. A “stuck” vehicle or a vehicle with flat tires being pulled up an incline can exert a force (load) on the winch that is several times the normal rolling weight of the vehicle. There are many factors to consider what size winch is needed to accomplish different pulling tasks. Remember: a 10,000 LB. winch will not pull a 10,000 LB. vehicle (in every circumstance)
18. DO NOT drive your vehicle (either forward or backward) to assist the winch when the winch is attempting to pull a load. Vehicle movement, in combination with the operation of the winch may overload the winch cable or damage the winch. Quick movement (in addition to the pulling force of the operating winch) may create a shock load that is greater than the cable strength of the winch. A winch cable should not be used as a “tie down”, “snatch strap” or a “come-along”.
19. Shock loads are dangerous! A shock load occurs when an increased force is suddenly applied to the cable. A vehicle rolling back on a slack cable is one example of how a potentially dangerous shock load may occur.
20. The winches shown in this manual are not to be used in industrial applications.
21. Do not use winch for hoisting. A winch is NOT a hoist.
22. Never use a winch to lift, support or otherwise transport people. Use COMMON SENSE!

WINCH SPECIAL FEATURES:

1. The winch is designed to automatically stop spooling if the winch is placed in an overloaded condition. The grating sound or alarm tone is designed to alert the operator that the winch has been placed in an over loaded condition. When an over load condition is reached, the winch will cease to pull properly. You must remove the line tension from the winch cable. Wheel chocks are a good method to prevent the pulled vehicle from exerting cable tension. Once cable tension is relieved, the winch needs to be powered off and a new line pulling technique should be used to maximize the winch's pulling power. A double line pull is a good alternative to single line pull.



2. Rubber dust seals are installed between the drum and the two metal end caps to prevent dust entering the gear box. These seals help to make the winch "water resistant". These seals do not make the winch "waterproof".



INSTALLATION:

MOUNTING YOUR WINCH

STEP 1

a) Before installation, make sure that the winch mounting surface is capable of withstanding the winches rated capacity.

b) When attaching the mounting plate, make sure you do not set the mounting plate on the winch mounting bolts. (Which protrude below the mounting plate). The mounting plate must be securely bolted (using grade 8 or higher hardware) or welded to a flat surface on the frame of the vehicle.

c) The position of winches mounted on vehicles with Frontal Protection System may affect the triggering of SRS air bags. Check that the mounting system has been tested and approved for winch placement in the airbag equipped vehicle. OEM winch mounting frames for Frontal Protection Systems are suggested to suit these vehicles.

d) Should you wish to manufacture your own mounting plate the dimensions below will assist you. (All dimensions are in millimeters). A ¼" inch (6MM) thick steel mounting plate is recommended. Fasteners should be steel high tensile grade 8 or higher. A poorly designed mount or use of low grade bolts will void the warranty. (or cause personal injury or property damage)

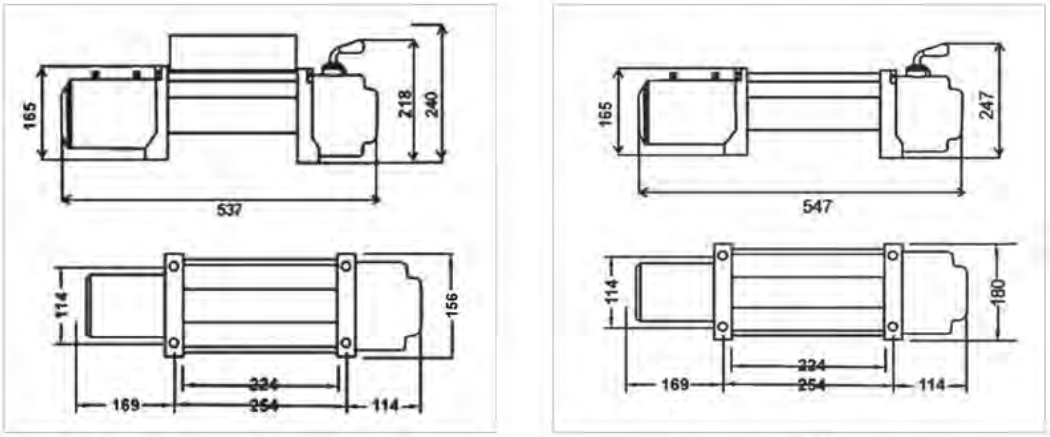
STEP 2

a) Your winch should be mounted onto a suitable steel mounting frame using the 4 point foot mounting system found on the winch. Only use the mounting hardware which is provided with the winch. If you replace the mounting hardware make sure that the bolt will thread in to the nut and the top of the bolt AND not make contact with the flange. Make sure the winch is mounted securely, but do not over tighten the mounting bolts.

Make sure not to bottom the bolt against the mounting flange.

b) The mounting plate should be flat so that the three sections of the winch (motor, cable drum, and gear housing) are properly aligned with each other.

c) The roller fairlead should be mounted to evenly guide the cable onto the winch drum.



A B

A: Dimensions for the 10,000 LB. and 13,000 LB. winch.

B: Dimensions of 16,800 LB winch.

Holes pre-drilled in Mounting Plate

Fairlead mounting holes to mounted included fairlead roller (pictured below)

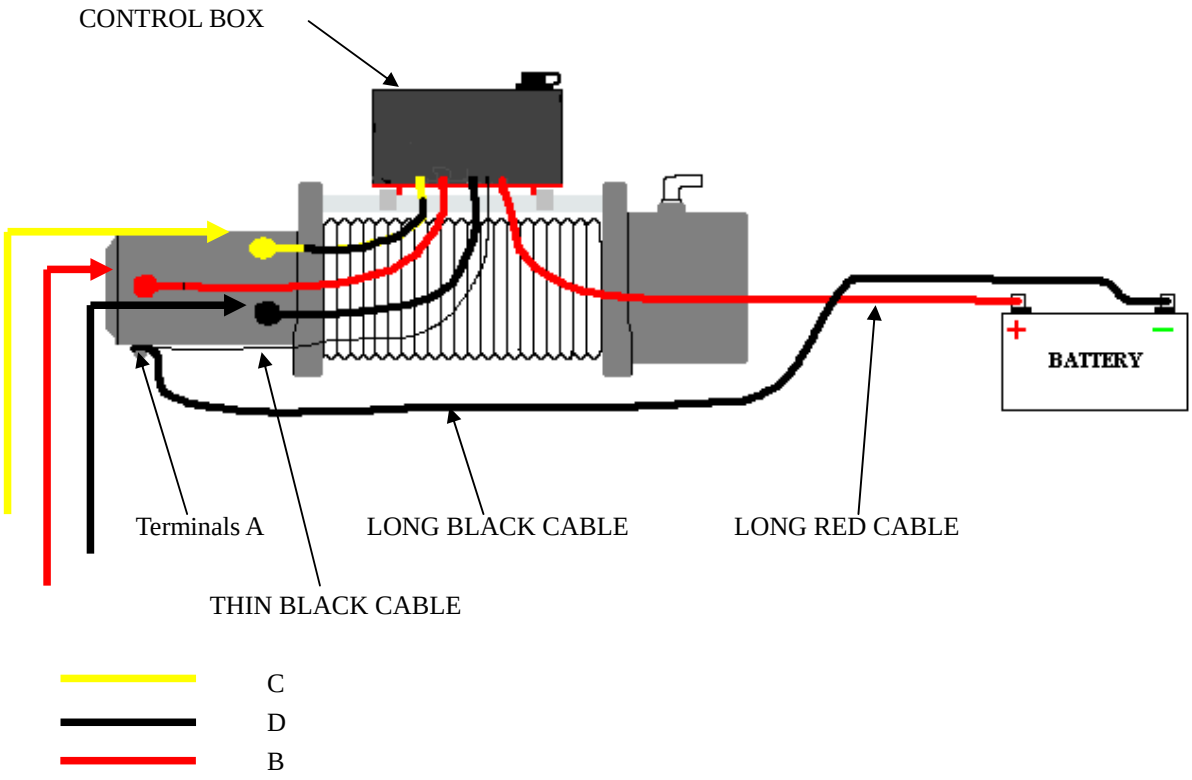
LUBRICATION INSTALLATION

All moving parts in the winch are permanently lubricated with high temperature lithium grease at the time of assembly. Under normal conditions, this factory lubrication will be all that is necessary. Lubricate winch cable periodically with light penetrating oil. Inspect closely for broken cable strands and replace cable if necessary. If the cable becomes worn or damaged it must be replaced, or the pulling capacity will be diminished and an unsafe condition will be present.

ELECTRICAL CONNECTION

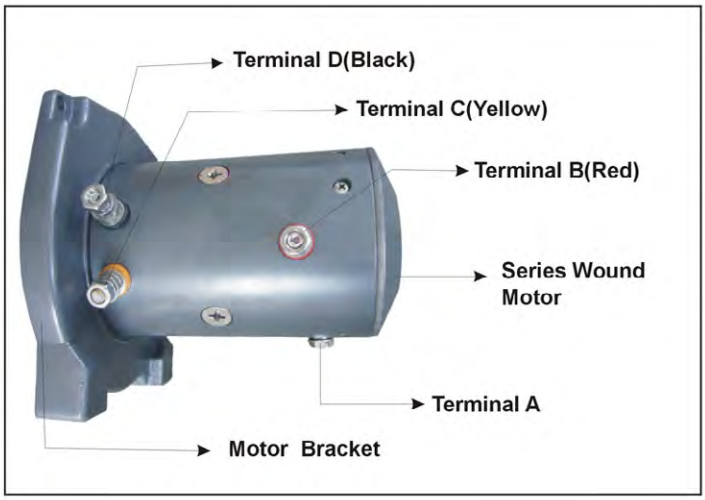
For normal self-recovery use of the winch, the existing 12 volt electrical system on your vehicle should be sufficient. (Battery should be at least 650 Cold Cranking Amps). A fully charged battery and proper connections are essential to the optimal operation of the winch. The winch will pull more Amps from the battery than the alternator can charge. Always run the vehicle engine during winching operations to allow the alternator to charge the battery.

6,000 LBS – 12,000 LBS WINCH CONTROL BOX WIRING (plastic solenoid box)

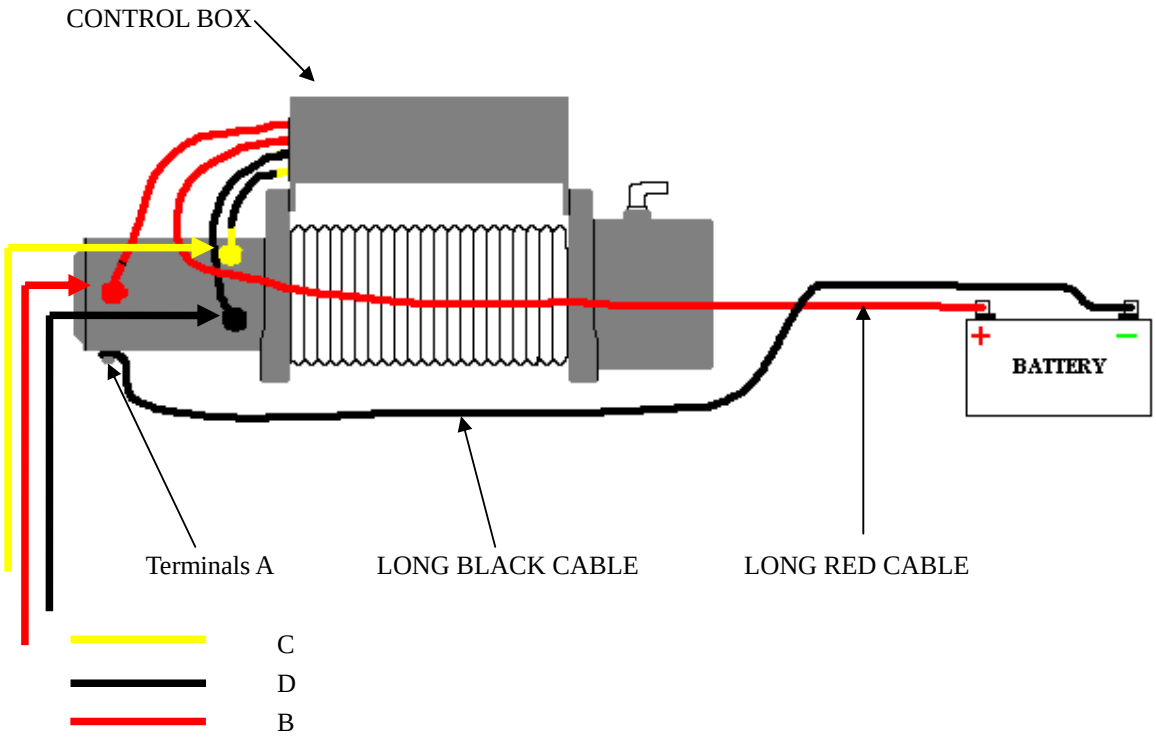


Pay close attention to proper electrical cable connection as follows (refer to Diagram1)

1. Short red cable with the red jacket (B') connects to the red terminal (B) of the motor.
2. Short black cable with yellow jacket (C') connecting to the black terminal (C) of the motor.
3. Short black cable with black jacket (D') connecting to the black terminal (D) of the motor.
4. Thin black cable (a') connecting to bottom terminal (A) of the motor.
5. Long black cable (1.8m), one terminal (A') connecting to the bottom terminal (A) of the motor, and the other terminal negative (-) connecting to negative (-) terminal of battery.
6. Long red cable positive (+) connecting to positive (+) terminal of battery.

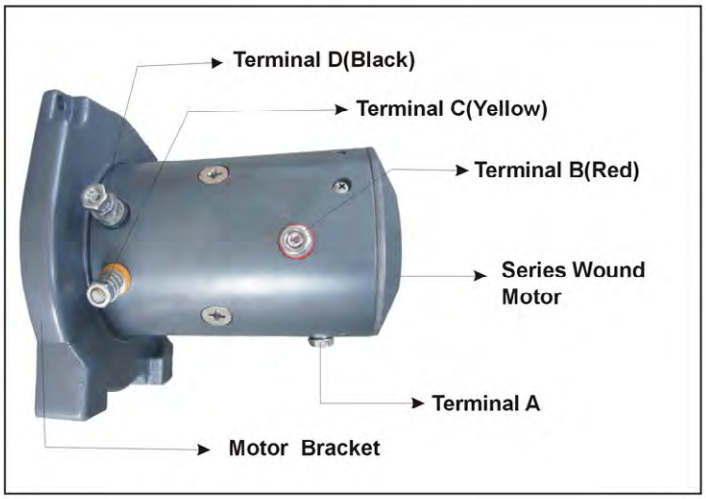


13,000 LBS WINCH CONTROL BOX WIRING
(factory prewired metal solenoid box)

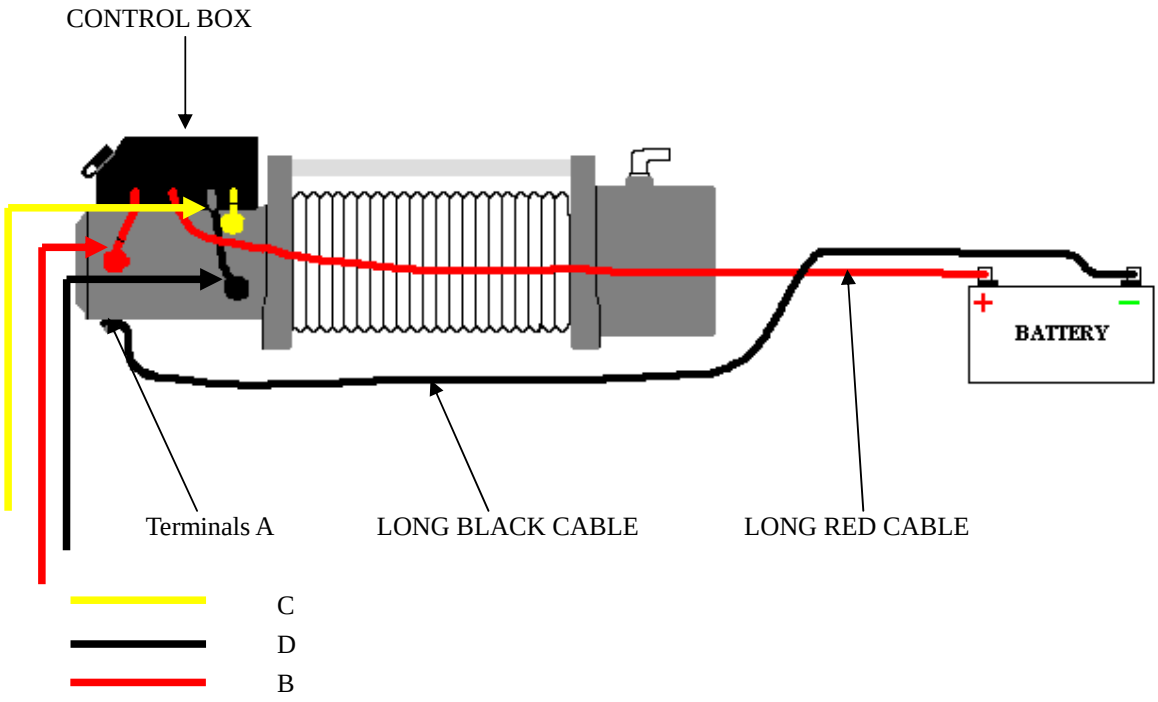


Pay close attention to proper electrical cable connection as follows (refer to Diagram1)

1. Short red cable with the red jacket (B') connects to the red terminal (B) of the motor.
2. Short black cable with yellow jacket (C') connecting to the black terminal (C) of the motor.
3. Short black cable with black jacket (D') connecting to the black terminal (D) of the motor.
4. Long black cable (1.8m), one terminal (A') connecting to the bottom terminal (A) of the motor, and the other terminal negative (-) connecting to negative (-) terminal of battery.
5. Long red cable positive (+) connecting to positive (+) terminal of battery.



16,800 LBS WINCH CONTROL BOX WIRING
(plastic solenoid box)



Pay close attention to proper electrical cable connection as follows (refer to Diagram1)

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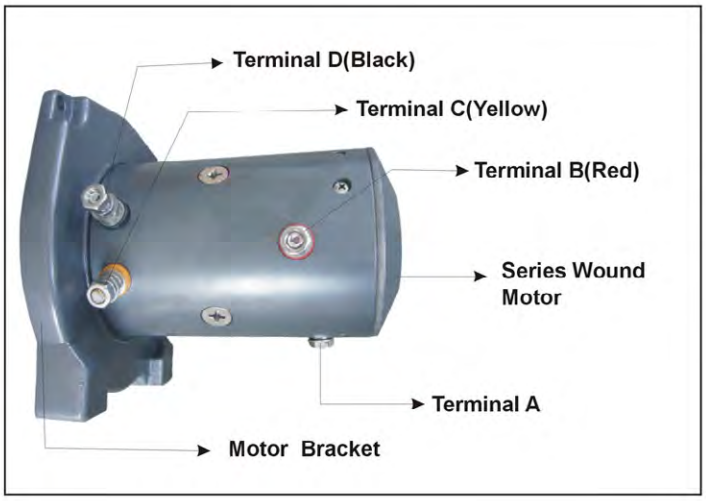
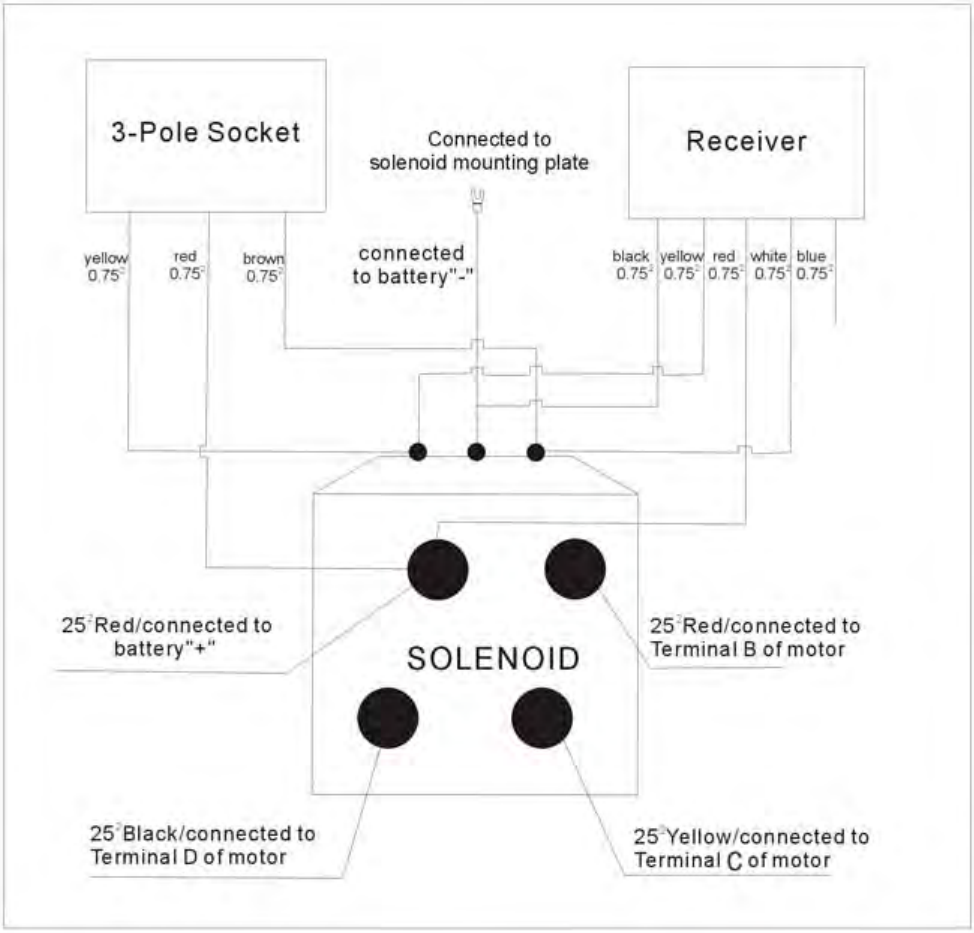
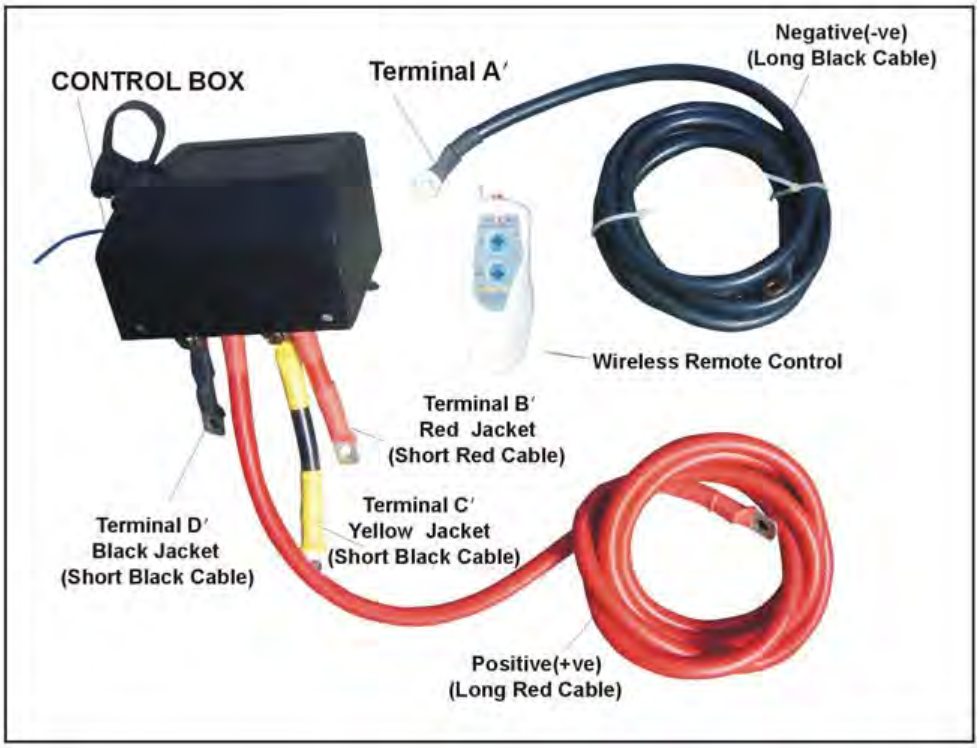
5. Long red cable positive (+) connecting to positive (+) terminal of battery.







16,800 LBS WINCH PLASTIC CONTROL BOX SHOWN ABOVE

WINCH OPERATION

SUGGESTION:

The best way to become familiar with the operation of your winch is to make a few test runs before you actually need to use it. Remember that observing your winch and listening to your winch as it operates will help you to better understand how your winch performs. Practice using your winch in good weather, on a level surface, and pulling a load that is far less than the maximum rated load capacity of the winch. Get to recognize the sound of a light steady pull and then, by adding more weight, listen to the winch motor noise as it is pulling a heavy load. You will gain confidence in operating your winch if you practice using your winch before it is needed in a "real life" situation.

GUIDE TO OPERATING YOUR WINCH:

1. Make sure the vehicle (with the winch attached) is secure. (will not move by itself). There are many ways to prevent vehicle movement. Put the vehicle transmission in PARK. Then you can apply the parking brake and chock the wheels.
2. Pull out the winch cable (either manually or under power) to the desired length and connect the hook to an anchor point.
    a) To disengage the clutch, move the clutch shifter tab to the "free spool" position. Winch motor MUST BE OFF when moving the clutch lever. Cable may now be free spooled off the drum with your hands (using leather gloves).(You may have to rock the drum by hand to engage or disengage the gearbox)
    b) To engage the clutch (power out the cable), move the clutch shifter lever to the correct position to allow the cable to be "winched" off the drum. You may also use your remote control. Remember to have the vehicle engine running to keep alternator charging the battery. The winch is now ready for operation.
3. Recheck the cable and hook attachment before proceeding.
4. Plug in the winch hand control. (or activate your remote winch control). It is recommended that the winch operator (if you are performing a self recovery) sit in the driver's seat. This allows the winch operator to "steer" the vehicle as close to the center of the cable pull direction as possible**.**

    NOTE: wireless remote may require a "line of sight" signal to operate correctly.

5. To begin the winching operation, put the vehicle's transmission in the neutral position, and maintain engine speed at idle (to keep a charge on the battery). Make sure all wheel chocks (that would prevent forward movement) are removed. Take off the parking brake.
6. Operate the remote control switch to IN or OUT until the vehicle has been retrieved. (or use the wireless remote to perform the same function) Regularly check the winch to make the cable is winding onto the drum evenly.

NOTE:

1. Never attempt to winch your vehicle when it is in gear or in park. Moving a vehicle that is NOT in the neutral position may damage the transmission.
2. Never wrap the cable around the anchor object and hook onto the cable itself. This can cause damage to the anchor object or to the cable.

3. Keep hands, clothing, hair and jewelry clear of the drum area and cable when using the winch.
4. Never use the winch if the cable is frayed, kinked, or damaged.
5. Never allow anyone to stand near the cable or in line with the cable (behind the winch) while the winch is under power. If the cable should slip or break, the wire rope could suddenly whip back towards the winch, causing a hazard for anyone in the area. Always stand well to the side of the winching operation while winching the cable.

6. Never leave the corded switch plugged in when winch is not in use. Removing the wired winch remote keeps unauthorized people from using the winch. Keep your wireless remote in a safe and secure place to prevent unauthorized use.

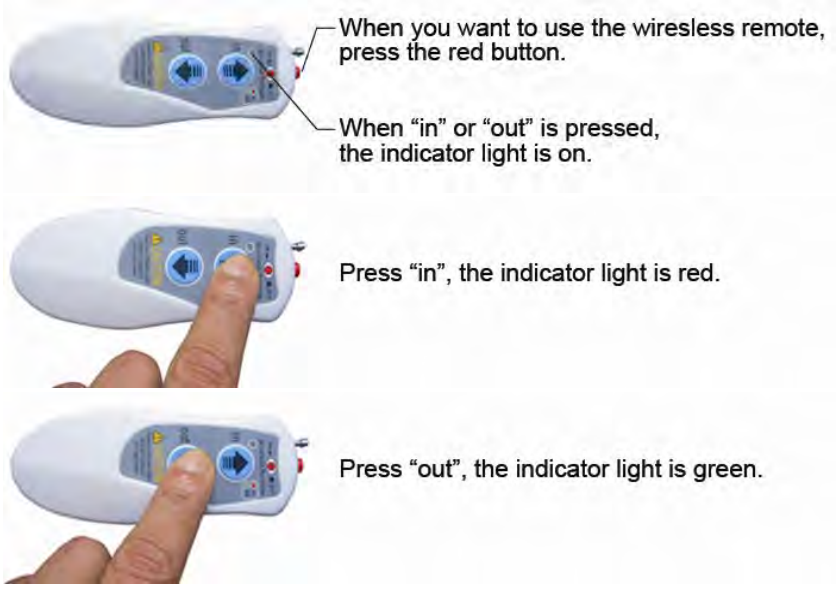
INSPECT THE WINCH CAREFULLY BEFORE OPERATING!

It is highly recommended that the winch be used (or tested) regularly (once a month).
Simply power the cable out about 30 feet of cable. Make sure the drum operates properly.
Next, set the clutch in the free spool position, and hand spool out about 10 feet. (use leather gloves)
Power the cable back in using methods described in this manual. (Keep the cable tightly wrapped on the drum spool) This monthly testing will assure you that all winch components are in good working condition, and the winch will be ready for use when needed. Contact your authorized winch distributor for technical assistance and repairs if necessary.

SPARE PARTS:

Your authorized winch dealer keeps a full inventory of parts and accessories.

WIRELESS REMOTE:



9 Volt DC remote

On –off switch

Wireless remote control’s style and appearance may vary depending on model.
Operating features will be similar. Use common sense.

NOTE:

The safety precautions and instructions discussed in this manual are not intended to cover all possible conditions and situations. It must be understood by the operator that common sense and caution are necessary for the safe operation of this winch.

10,000 LBS FEATURES AND SPECIFICATIONS

Single Line Rated Pull	**10000lb(4536kg) single line**
Motor	**12V 5.5hp/4.0kw Series Wound**
Control	**Remote Switch,12ft(3.7m)lead**
Gear train	**3 Stage Planetary**
Gear reduction ration	**148.2:1**
Clutch	**flexible operation, water-resistant**
Braking Action	**Automatic In-The-Drum**
Drum Size	**Φ64mmxL223mm**
Cable	**Φ9.5mm, 26m**
Fairlead	**4-Way Roller Fairlead**
Remote Control	**Included**
Battery	**Recommended:650CCA minimum for winching**
Battery Leads	**2 gauge,72"(183mm)**
Finish	**Dark gray powder coat**
Overall Dimensions	**21.3"x6.3"x8.6"(540mmx160mmx218mm)**
Mounting Bolt Pattern	**254mmx114.3mm(10"x4.5")**
Weight	**N.W:36kg G.W: 38Kg**
Packing size	**57x19x34.5cm 1PC/CTN**

12V LINE SPEED AND AMP DRAW (FIRST LAYER)

Line Pull(lbs./kg)	**Line Speed FPM(m/min)**	**Motor(Amps)**
0	**35.4ft(10.8m)**	**75**
2000(907)	**14.8ft(4.5m)**	**180**
4000(1814)	**11.2ft(3.4m)**	**220**
6000(2721)	**9.5ft(2.9m)**	**290**
8000(3628)	**7.87ft(2.4m)**	**360**
10000(4536)	**5.25ft(1.6m)**	**4500**

10000 LBS LINE PULL AND CABLE CAPACITY

Layer of cable	**1**	**2**	**3**	**4**
Rated line pull per layer	**10000**	**7930**	**6566**	**5604**
	4536	**3596**	**2977**	**2541**
Cumulative cable capacity	**17**	**38.7**	**64.6**	**91.8**
	5.2	**11.8**	**19.7**	**28**

13,000 LBS FEATURES AND SPECIFICATIONS

Single Line Rated Pull	**13000lb(5900kg) single line**
Motor	**12V 5.5hp/4.0kw Series Wound**
Control	**Remote Switch,12ft(3.7m)lead**
Gear train	**3 Stage Planetary**
Gear reduction ration	**218.4:1**
Clutch	**flexible operation, water-resistant**
Braking Action	**Automatic In-The-Drum**
Drum Size	**Φ64mmxL223mm**
Cable	**Φ9.5mm, 26m**
Fairlead	**4-Way Roller Fairlead**
Remote Control	**Included**
Battery	**Recommended:650CCA minimum for winching**
Battery Leads	**2 gauge,72"(183mm)**
Finish	**Dark gray powder coat**
Overall Dimensions	**21.3"x6.3"x8.6"(540mmx160mmx218mm)**
Mounting Bolt Pattern	**254mmx114.3mm(10"x4.5")**
Weight	**N.W:36kg G.W: 38Kg**
Packing size	**57x19x34.5cm 1PC/CTN**

12V LINE SPEED AND AMP DRAW (FIRST LAYER)

Line Pull(lbs./kg)	**Line Speed FPM(m/min)**	**Motor(Amps)**
0	**22.5ft(6.85m)**	**65**
2000(907)	**12.4ft(3.8m)**	**110**
4000(1814)	**9.8ft(3.0m)**	**165**
6000(2721)	**8.5ft(2.6m)**	**220**
8000(3628)	**7.5ft(2.3m)**	**270**
10000(4536)	**6.56ft(2.0m)**	**340**
13000(5900)	**4.8ft(1.48m)**	**430**

13000 LBS LINE PULL AND CABLE CAPACITY

Layer of cable	**1**	**2**	**3**	**4**
Rated line	**13000**	**10010**	**8840**	**7410**
pull per layer	**5900**	**4541**	**4010**	**3361**
Cumulative	**15**	**34.6**	**58.6**	**85.3**
cable capacity	**4.58**	**10.54**	**17.87**	**26**

16800LBS FEATURES AND SPECIFICATIONS

Single Line Rated Pull	**16800lb(7620kg) single line**
Motor	**12V 5.6hp/4.2kw Series Wound**
Control	**Remote Switch,12ft(3.7m)lead**
Gear train	**3 Stage Planetary**
Gear reduction ration	**312.4:1**
Clutch	**flexible operation, water-resistant**
Braking Action	**Automatic In-The-Drum**
Drum Size	**Φ85mmxL221.5mm(3.35"x8.72")**
Cable	**Φ11.5mm, 28m**
Fairlead	**4-Way Roller Fairlead**
Remote Control	**Included**
Battery	**Recommended:650CCA minimum for winching**
Battery Leads	**2 gauge,72"(183mm)**
Finish	**Dark gray powder coat**
Overall Dimensions	**21.5"x7.09"x9.73"(547mmx180mmx247mm)**
Mounting Bolt Pattern	**254mmx114.3mm(10"x4.5")**
Weight	**N.W:54kg G.W: 56Kg**
Packing size	**60x23x38.5cm 1PC/CTN**

12V LINE SPEED AND AMP DRAW (FIRST LAYER)

Line Pull(lbs./kg)	**Line Speed FPM(m/min)**	**Motor(Amps)**
0	**23.94ft(7.30m)**	**75**
2000(907)	**12.27ft(3.74m)**	**106**
4000(1814)	**9.38ft(2.86m)**	**167**
6000(2721)	**7.41ft(2.26m)**	**195**
8000(3628)	**6.16ft(1.91m)**	**246**
10000(4536)	**5.18ft(1.58m)**	**283**
12000(5443)	**4.46ft(1.36m)**	**340**
16800(7620)	**2.95ft(0.9m)**	**480**

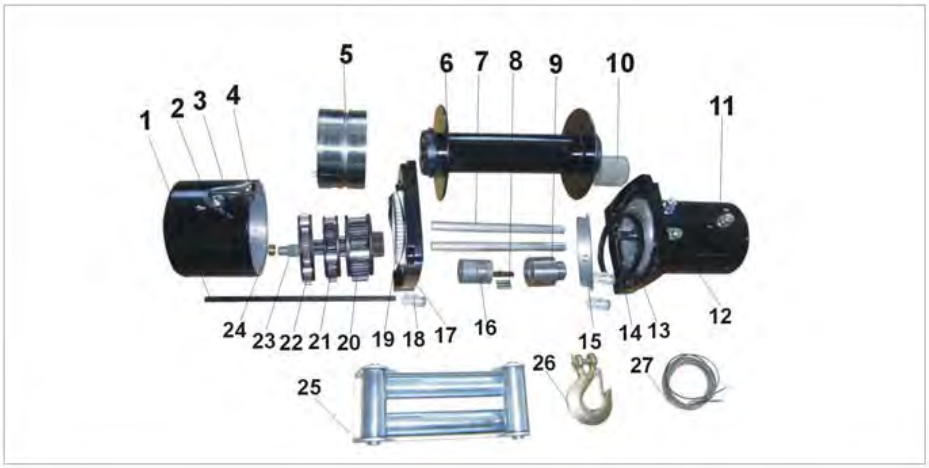
16800LBS LINE PULL AND CABLE CAPACITY

Layer of cable		**1**	**2**	**3**	**4**
Rated line pull per layer	**16800**	**13779**	**13779**	**11202**	**9358**
	7620	**6250**	**6250**	**5081**	**4245**
Cumulative cable capacity	**16.64**	**37.78**	**37.78**	**63.40**	**91.86**
	5.1	**11.5**	**11.5**	**19.3**	**28**

10,000 LBS/13,000 LBS/16,800 LBS WINCH PARTS LIST (10,000 lbs winch shown below)

For reference use only

Item No.	Part No.	Description	Qty	Item No.	Part No.	Description	Qty
1	0107/08-01	Transmission Shaft	1	14	0107/08-15	Sealing Ring	2
2	0115/16-02	Fixed Screw	1	15	0107/08-16A	Nylon Bearing	1
3	0107/08-24	Gear Box	1	16	0107/08-25A	Brake	1
4	0107/08-04	Clutch Handle	1	17	0107/08-18	Gear-Box Bracket	1
5	0115/16-06	Clutch Gear	1	18	0107/08-19	Mounting Bolt M12x35	4
6	0107/08-07	Drum	1	19	0107/08-20	Sealing Ring	1
7	0107/08-08	Tie Bar	2	20	0115/16-21	Gear Carrier Ass y-output	1
8	0115/16-09	Connecting Shaft	1	21	0115/9-22	Gear Carrier Ass y-intermediate	1
9	0107/08-10	Torque Overload Protection	1	22	0115/16-23	Gear Carrier Ass y-Input	1
10	0107/08-11	Lining	1	23	0115/16-50	Sun Gear-Input	1
11	0115/16-12	Motor(12V)	1	24	0115/08-26	Bearing	1
	0115/1612A	Motor(24V)	1	25	0107/08-27	Roller Fairlead	1
12	10107/08-13	Link Screw M8x25	4	26	0107/08-28	Hook	1
13	0107/08-14	Motor Bracket	1	27	0113-14-29	Wire rope	1



SOLENOID BOX ASSEMBLY (12V) PARTS LIST (10,000 lbs winch shown below)

For reference use only

Item No.	Part No.	Description	Qty
1	S0107/08-30	Solenoid Cover	1
2	S0107/08-31	Solenoid- 12V	1
3	S0107/08-33	Black Cable with Black Sleeve(0.75mmx0.45m;earth)	1
4	S0107/08-34	1.8m Long Red Cable	1
5	S0107/08-35	0.425m Short Black Cable with Yellow Terminal Sleeve	1
6	S0107/08-36	0.425m Short Red Cable with Red Terminal Sleeve	1
7	S0107/08-36A	Wireless remote receiver	1