



OPERATOR'S MANUAL

MODEL #100139

11,000 LB. (4,990 KG) WINCH



ACTIVATE YOUR WARRANTY

by registering your product:
championpowerequipment.com

SERIAL NO.



1-877-338-0999

or visit championpowerequipment.com

READ AND SAVE THIS MANUAL. This manual contains important safety precautions which should be read and understood before operating the product. Failure to do so could result in serious injury. This manual should remain with the product.

Specifications, descriptions and illustrations in this manual are as accurate as known at the time of publication, but are subject to change without notice.

5616-M-OP

REV 20250529



Champion Power Equipment, Inc.

TABLE OF CONTENTS

Introduction **3**

Safety Definitions **3**

Important Safety Instructions **4**

 Operation Symbols 5

Controls and Features **6**

 Winch 6

 Assembly Parts 7

Assembly **8**

 Mounting the Winch 8

 Wiring the Winch 9

Operation **11**

 General Tips for Safe Operation 11

 Self Recovery 11

 Winching Techniques A-Z 12

Maintenance **13**

 Lubrication 13

 Cable Assembly Replacement 13

Specifications **14**

 Performance Specifications 14

Troubleshooting **15**

 **FOR PARTS BREAKDOWN**

Search by model number at
championpowerequipment.com

INTRODUCTION

Congratulations on your purchase of a Champion Power Equipment (CPE) product. CPE designs, builds, and supports all of our products to strict specifications and guidelines. With proper product knowledge, safe use, and regular maintenance, this product should bring years of satisfying service.

Every effort has been made to ensure the accuracy and completeness of the information in this manual at the time of publication, and we reserve the right to change, alter and/or improve the product and this document at any time without prior notice.

Since CPE highly values how our products are designed, manufactured, operated and are serviced, and also highly value your safety and the safety of others, we would like you to take the time to review this product manual and other product materials thoroughly and be fully aware and knowledgeable of the assembly, operation, dangers and maintenance of the product before use. Fully familiarize yourself, and make sure others who plan on operating the product fully familiarize themselves too, with the proper safety and operation procedures before each use. Please always exercise common sense and always err on the side of caution when operating the product to ensure no accident, property damage, or injury occurs. We want you to continue to use and be satisfied with your CPE product for years to come.

When contacting CPE about parts and/or service, you will need to supply the complete model and serial numbers of your product. Transcribe the information found on your product's nameplate label to the table below

CPE TECHNICAL SUPPORT TEAM
1-877-338-0999
MODEL NUMBER
100139
SERIAL NUMBER
DATE OF PURCHASE
PURCHASE LOCATION

SAFETY DEFINITIONS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

 **DANGER**

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

 **WARNING**

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION**

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

 **NOTICE**

NOTICE indicates information considered important, but not hazard-related (e.g., messages relating to property damage).

IMPORTANT SAFETY INSTRUCTIONS

WARNING

Do not use as a hoist for overhead lifting.
Do not use this winch for lifting or moving people or animals.
Never step over the cable/rope when operating under load.
Always maintain a safe distance to the opposite side of the cable/rope when operating under load.

WARNING

Never exceed the rated capacity.
Be aware that the cable/rope may break before the motor stalls.
For heavy loads at or near rated capacity, always use a snatch block to reduce the load on the cable/rope.

WARNING

Do not use the winch to secure or hold a vehicle for an extended period of time.
Always apply stop blocks to the wheels of the vehicle when on an incline.
Do not use the winch to secure a vehicle for transporting purposes.
Never move the vehicle to pull a load (towing) when operating the winch cable/rope.
Never release the free-spool clutch when there is a load on the winch.

WARNING

Disconnect the remote control and battery leads when not in use.

WARNING

Avoid “shock loads” by using the control switch intermittently to take up the slack in the cable/rope. “Shock loads” can exceed the rated capacity of the cable/rope and drum.

CAUTION

Use a winch hook strap when handling the hook for spooling or unspooling the cable/rope.

CAUTION

Always use gloves to protect hands when handling the cable/rope. Never let the cable/rope slide through your hands.

WARNING

When re-spooling the cable/rope, ensure that it spools in the under-wind position with the cable/rope entering the drum from the bottom, not the top.

To re-spool correctly, and while wearing gloves, keep a slight load on the cable/rope while pushing the remote button to draw in the cable/rope. Walk toward the winch not allowing the cable to slide through your hands. Do not let your hands get within 12 inches (30 cm) of the winch while re-spooling. Turn off the winch and repeat the procedure until a few feet of cable/rope are left. Disconnect the remote control and finish spooling by rotating the drum by hand with the clutch disengaged. Keep hands clear of the fairlead and drum while the winch is under power .

CAUTION

Do not wrap the cable/rope around any object and hook it back onto itself.

CAUTION

Duration of winching pulls should be kept as short as possible.

If the motor becomes excessively hot to the touch, stop winching immediately and let it cool down for a few minutes. Do not pull for more than one minute at or near the rated load.

CAUTION

If the motor stalls, do not maintain power to the winch.
Electric winches are designed and made for intermittent use and should not be used in constant duty applications.

Operation Symbols

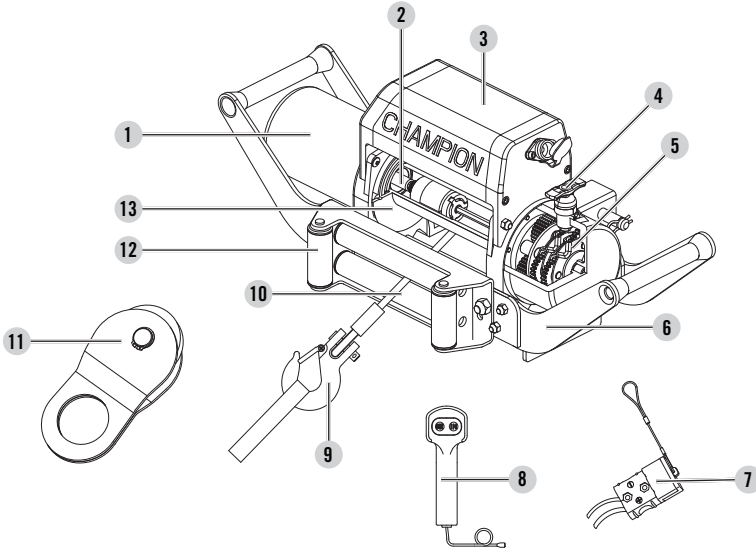
Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to more safely operate the product.

Symbol	Meaning
	Positive battery terminal
	Negative battery terminal

CONTROLS AND FEATURES

Read this operator's manual before operating your winch. Familiarize yourself with the location and function of the controls and features. Save this manual for future reference.

Winch



1. **Motor** – 3.6 HP (2.7 kW) 12V DC motor provides power to the planetary gear mechanism.
2. **Braking System** – Braking action is automatically applied to the winch drum when the winch motor is stopped and there is a load on the wire rope.
3. **Solenoid** – Power from the vehicle battery flows through the weather sealed solenoid switch before being directed to the winch motor.
4. **Free Spooling Clutch** – The clutch allows the operator to manually disengage (“Out”) the spooling drum from the gear train, free spool. Engaging the clutch (“In”) locks the winch into the gear system.
5. **Planetary Gear System** – The reduction gears convert the winch motor power into extreme pulling forces. This system allows high torque while maintaining compact size and light weight.
6. **Speed Mount™ Hitch Adapter** – Adapter for front or rear end class III hitch receiver mounting and off-vehicle storage. switch before being directed to the winch motor.
7. **Quick Connect Leads** – 1.8 m (6 ft.) heavy duty cables with quick connect leads.
8. **Remote Switch** – Dual switches for powering the rope in or out of your winch drum.
9. **Clevis Hook** – Provides a means for connecting the looped ends of cables to an anchor.
10. **Wire Rope** – 9.2 mm x 26 m (3/8 in. x 85 ft.) galvanized aircraft cable designed specifically for load capacity of (11,000 lb. (4,990 kg)).
11. **Snatch Block** – Used properly, the snatch block can double the pulling power of winch, or change your pulling directly without damaging the wire rope.
12. **Roller Fairlead** – When using the winch at an angle the roller fairlead acts to guide the wire rope onto the drum and minimizes damage to the wire rope from abrasion on the winch mount or bumper.
13. **Winch Drum** – The winch drum is the cylinder on which the wire rope is stored. It can feed or wind the rope depending on the remote winch switch.

Assembly Parts

Part	Part Qty.	Hardware	Hardware Qty	Tools Needed
Roller Fairlead	1	Hexagon Head Bolt M10 x 35	2	1x 16mm wrench or socket
		Flat Washer Ø10	2	
		Lock Washer Ø10	2	
		Lock Nut M10	2	1x 16mm wrench or socket
Winch Body	1	Hexagon Head Bolt M10 x 35	4	1x 16mm wrench or socket
		Flat Washer Ø10	4	
		Lock Washer Ø10	4	
		Lock Nut M10	4	1x 16mm wrench or socket
Clevis hook	1			Needle nose pliers
Yellow Strap	1			
Remote Switch	1			
Snatch Block	1			

ASSEMBLY

Your CPE 11,000 lb. (4,990 kg) winch is designed with a bolt pattern that is standard in this class of winch. Many winch mounting kits are available that utilize this bolt pattern for the most popular trucks and Sport Utility Vehicles. If you cannot find a kit locally, contact CPE and we will provide you with the name of a dealer near you.

If you will utilize the CPE Speed Mount™ Hitch Adapter, you must ensure that the three major sections (motor, drum and gear housing) are properly aligned. Proper alignment of the winch will allow even distribution of the full rated load.

⚠ CAUTION

Mounting bolts must be SAE grade 5 or better and torque to 34 ft. lbs (46 N.m).

⚠ CAUTION

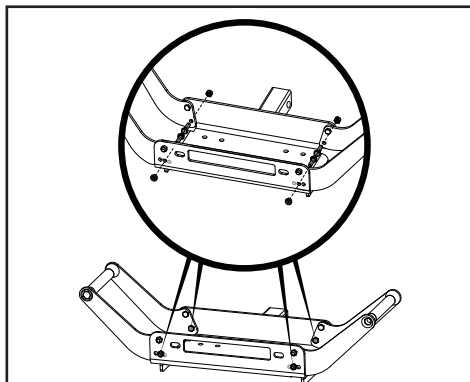
If utilizing a mounting plate, ensure that the three major sections (motor, drum, and gear housing) are properly aligned. Proper alignment of the winch will allow for even distribution of the full rated load.

🗨 NOTICE

The type of vehicle to which the winch and mounting channel will be applied, will dictate the type of mounting kit that should be used (Speed Mount™ hitch adapter, standard mounting channel, or specialty mounting kit).

Mounting the Winch

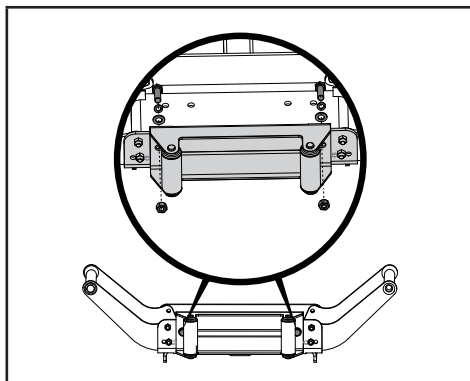
1. Extend the arms of the Speed Mount™ hitch adapter and secure with 4 M8 bolts and M8 nuts.



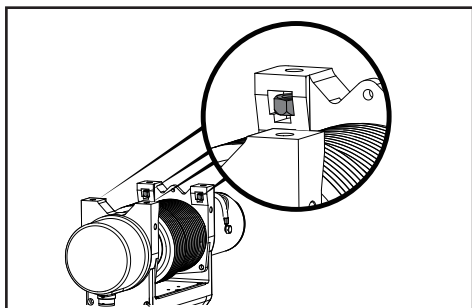
🗨 NOTICE

Please use either middle hole or outermost hole, as the innermost hole interferes with this style roller fairlead.

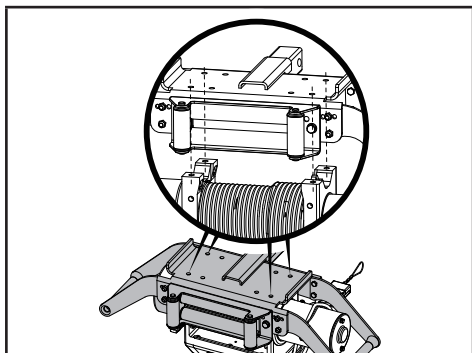
2. Insert 2 M10×35 bolts to the mounting channel hole and attach the roller fairlead to the mounting channel with the 2 flat washers, lock washers and nut M10 provided.



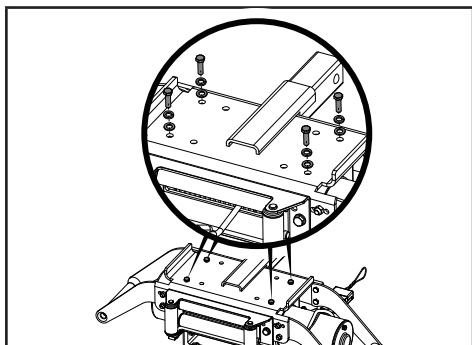
3. Turn the winch up-side-down; insert 4 M10 nuts into the holes of the winch.



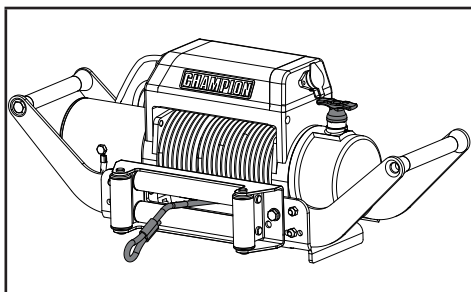
4. Place the Speed Mount™ hitch adapter on the winch, making sure the winch is centered in the middle of the mounting channel.



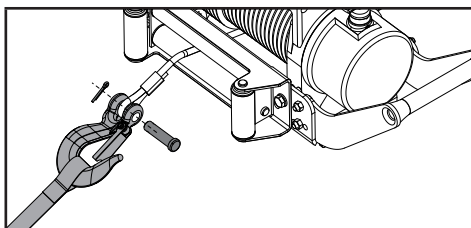
5. Attach using the 4 M10 cap screws with 4 lock washers and flat washers into the hole.



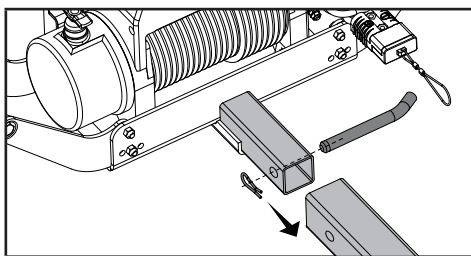
6. Disengage the clutch by moving/pulling the clutch handle to the "Out" position. Release the rope and pull through the slot in the front of the channel.



7. Attach the clevis hook and hand strap.



8. Insert the Speed Mount™ Hitch Adapter into your hitch receiver and secure with the pin.



Wiring the Winch

For winch to fully function, connect all leads correctly.

⚠ CAUTION

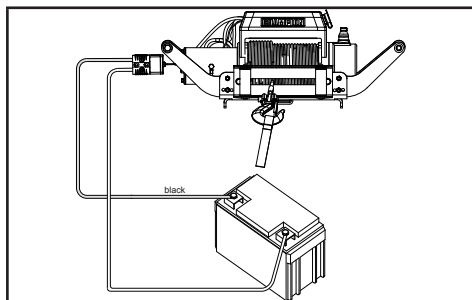
NEVER route electrical cables across any sharp edges, through and/or near moving parts, or near parts that may become hot.

⚠ CAUTION

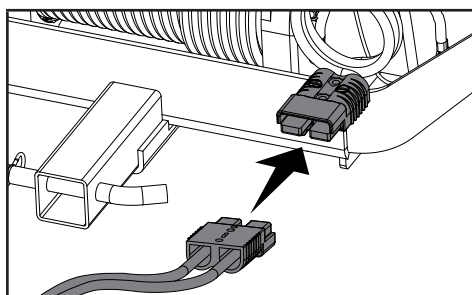
Battery cables should not be drawn taut. Leave some slack for cable movement.

1. Connect the battery leads:

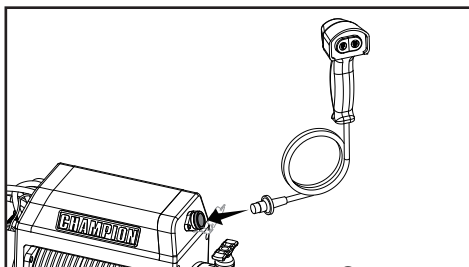
- 1a. Connect the red (+) lead to the positive (+) terminal of the vehicle's 12 volt battery.
- 1b. Connect the black (-) lead to the negative (-) terminal of the vehicle's 12 volt battery. (see wiring diagram)

**2. Connect the quick connect leads:**

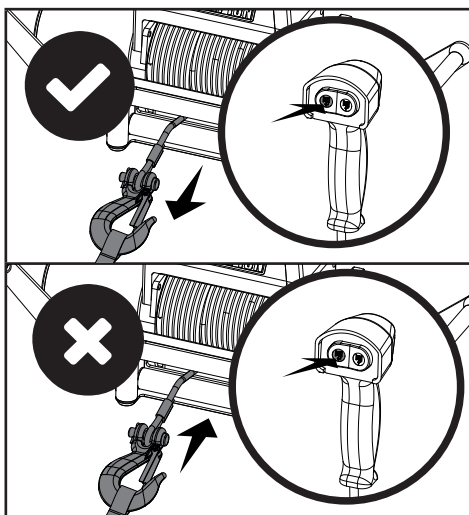
- 2a. Insert the male quick connect into the female quick connect to complete the wiring.



3. Attach the remote lead to the winch and test for proper operation.



4. **Check for proper drum rotation.** Pull and turn the clutch knob to the "out" position (Free spooling). Pull out some rope from the drum, and then turn the clutch knob to the "In" position to engage the gears. Press the rope out button on the handlebar switch. If the drum is turning and releasing more rope then your connections are accurate. If the drum is turning and collecting more rope then reverse the leads on the motor. Repeat and check rotation.



OPERATION

General Tips for Safe Operation

Your winch is rated at a 11,000 lb. (4,990 kg) capacity in first layer (max) when spooling the first rope layer on the drum. Overloads can damage the winch, motor and/or wire rope. For loads over 50% we recommend the use of the pulley block/snatch block (included) to double the wire rope line. This will aid in two ways:

- reduce the number of cable/rope layers on the drum, as well as,
- reduce the load on the cable/rope by as much as 50%.

When doubling the line back to the vehicle, attach to the tow hook, frame or other load bearing part. The vehicle engine should be kept running during operation of the winch to minimize battery drain and maximize power and speed of the winch. If the winch is used for a considerable time with the engine off the battery may be drained and too weak to restart the engine.

Get to know your winch before you actually need to use it. We recommend that you set up a few test runs to familiarize yourself with rigging techniques, the sounds your winch makes under various loads, the way the cable spools on the drum, etc.

Inspect the wire rope and equipment before each use. A frayed or damaged rope shall be replaced immediately. Use only manufacturer's identical replacement cable/rope with the exact specifications.

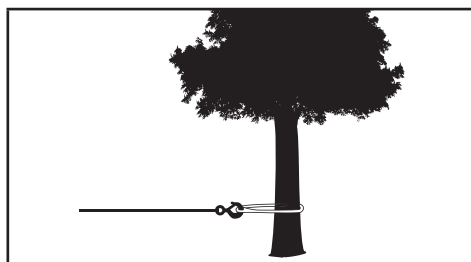
Inspect the winch installation and bolts to ensure that all bolts are tight before each operation. Store the remote control inside your vehicle in a place that it will not be damaged.

Any winch that appears to be damaged in any way, is found to be worn, or operates abnormally **MUST BE REMOVED FROM SERVICE UNTIL REPAIRED**. It is recommended that the necessary repairs be made by a manufacturer's authorized repair facility.

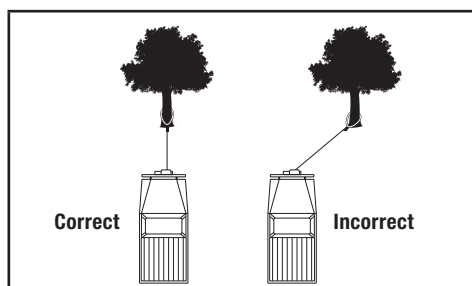
Pull only on areas of the vehicle as specified by the vehicle manufacturer. Only attachments and/or adapters supplied by the manufacturer are to be used.

Self Recovery

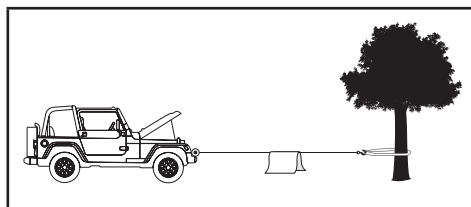
Locate a suitable anchor such as a strong tree trunk or boulder. Always use a sling (not included) as an anchor point.



Your winch is equipped with a roller fairlead to help guide the cable/rope and to reduce binding on short side pulls. Do not winch from an acute angle as the cable/rope will pile up on one side of the drum causing damage to cable/rope and the winch.



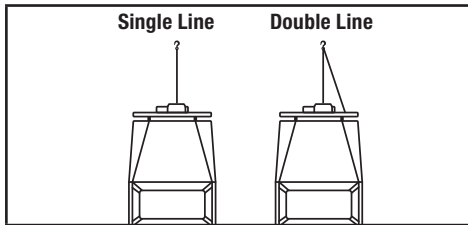
Short pulls from an angle can be used to straighten the vehicle. Long pulls should be done with the cable/rope at a 90° angle to the winch/vehicle. When pulling a heavy load, place a blanket or jacket over the cable/rope 5 – 6' (1.5 – 1.8 m) from the hook. In the event of a broken cable/rope it will dampen the snap back.



For additional protection open the hood of the vehicle. For pulls over 5,500 lb (2,495 kg), we recommend the

use of the snatch block/pulley block to double line the cable/rope.

This reduces the load on the winch and the strain on the rope by approximately 50%.



Winching Techniques A-Z

- a. Take time to assess your situation and plan your pull.
- b. Always wear heavy leather gloves when handling cable/rope.
- c. Disengage the clutch to allow free-spooling and also save battery power.
- d. Always use supplied hand strap whenever spooling rope in or out, during installation and during operation.
- e. Pull out the cable/rope to your desired anchor point using the hand strap.
- f. Secure the clevis hook to the anchor point: Sling, chain or snatch block. Do not attach the hook back onto the cable/rope.
- g. Engage the clutch.
- h. Connect the mini-rocker switch to the winch.
- i. Start your engine to ensure power is being replenished to the battery.
- j. Drape a blanket or jacket over the cable/rope approximately 5 – 6' (1.5 – 1.8 m) from the hook. Open the hood for added protection.
- k. Power in the cable/rope guiding the rope under tension to draw up the slack in the rope. Once the rope is under tension, stand clear. Never step over the cable/rope.
- l. Double check your anchors and make sure all connections are secure.
- m. Inspect the cable/rope. Make sure there are at least 5 wraps of cable/rope around the winch drum. Your rope is marked with red on wrap 5 to 6 as a visual indicator.
- n. Clear the area. Make sure all spectators stand clear and that no one is directly in front or behind the vehicle or anchor point.
- o. Begin winching. Be sure that the cable/rope is winding evenly and tightly around the drum. The vehicle that is being winched can be slowly driven to add assistance to the winching process. Avoid shock loads; keep the cable/rope under tension.
- p. The vehicle to be winched should be placed in neutral and the emergency brake released. Only release the brake pedal when under full tension. Avoid shock loads to the winch. This can damage the winch, rope and vehicle.
- q. The winch is meant for intermittent use. Under full load with a single line rig do not power in for more than a minute without letting the motor cool down for a few minutes and then resume the winching operation.
- r. The winching operation is complete once the vehicle is on stable ground and is able to drive under its own power.
- s. Secure the vehicle. Be sure to set the brakes and place the vehicle in park.
- t. Release the tension on the cable/rope. The winch is not meant to hold the vehicle for long periods of time.
- u. Disconnect the cable/rope from the anchor.
- v. Rewind the cable/rope. Make sure that any rope already on the drum has spooled tightly and neatly. If not, draw out the rope and re-spool from the point where the rope is tight.
- w. Always keep hands clear of cable/rope, hook loop, hook and roller fairlead opening during installation, operation, and when spooling in or out.
- x. Secure the hook and hand strap.
- y. Disconnect the mini-rocker switch.
- z. Clean and inspect connections and mounting hardware for next winching operation.

MAINTENANCE

The owner/operator is responsible for all periodic maintenance.

Complete all scheduled maintenance in a timely manner.
Correct any issue before operating the winch.

WARNING

Never operate a damaged or defective winch.

WARNING

Improper maintenance will void your warranty.

NOTICE

For service or parts assistance, contact our help line at 1-877-338-0999.

Lubrication

All moving parts within the electric winch have been lubricated using high-temperature lithium grease at the factory. No internal lubrication is required. Lubricate rope assembly periodically using a light penetrating oil.

Cable Assembly Replacement

It is recommended that any modifications be performed by a manufacturer's authorized repair facility, and that only manufacturer-supplied parts be used.

1. Move the clutch to the "Out" position.
2. Extend Cable Assembly to its full length. Note how the existing cable is connected vto the inside of the drum.
3. Remove old Cable Assembly and attach new one.
4. Retract Cable Assembly onto drum being careful not to allow kinking.

SPECIFICATIONS

Performance Specifications

Model	100139	Cable/Rope Type	Galvanized Steel
Rated Pull	11,000 lb. (4,990 kg)	Cable/Rope Dimensions	85 ft. (L) × 3/8 in. (D) [26 m (L) × 9.2 mm (D)]
Gear Reduction Ratio	216:1	Net Weight	114.6 lb. (52 kg)
Motor ... Series wound motor 3.6 HP (2.7 kW) (12V DC)		Length	21.9 in. (55.5 cm)
Duty Cycle	Intermittent use only	Width	5.6 in. (14.2 cm)
Drum Size	8.8 in. (L) × 2.5 in. (D) [224.5 mm (L) × 63 mm (D)]	Height	10.5 in. (26.7 cm)
		Bolt Pattern	10 in. × 4.5 in. (25.4 cm × 11.4 cm)

Line Speed and Motor Current (First Layer)							
Line Pull	lg	0	2000	4000	6000	8000	11000
	kg	0	907	1814	2722	3629	4990
Line Speed (12V DC)	FPM	15.7	9.8	7.2	5.9	4.9	3.0
	MPM	4.8	3.0	2.2	1.8	1.5	0.9
Motor Current (12 V DC)	A	115	175	220	280	320	420
Run Time*	Minutes	1	1	1	1	1	1
Cooling Time**	Minutes	5	5	5	5	5	5

Line Pull and Cable/Rope Capacity Per Layer					
Line of Cable/Rope		1	2	3	4
Rated Line Pull	lb	11000	8000	6600	5600
	kg	4990	3629	2994	2540
Cable/Rope Capacity	FT	18	39.4	64	85
	Minutes	5.5	12	19.5	26

— Use double line and snatch block for pulling loads over 50%.

* If the motor becomes uncomfortably hot to the touch, stop winching immediately and let it cool down for 5 minutes. Do not pull for more than one minute at or near the rated load.

**Electric winches are designed and made for intermittent use and should not be used in constant duty applications.

TROUBLESHOOTING

Problem	Cause	Solution
Motor does not turn on.	Switch assembly not connected properly.	Insert switch assembly all the way into the connector.
	Loose battery cable connections.	Tighten nuts on all cable connections.
	Contactor malfunctioning.	Tap contactor to loosen contacts. Apply 12 volts to coil terminals directly. A clicking indicates proper activation.
	Defective switch assembly.	Replace switch assembly.
	Defective motor.	Check for voltage at armature port with switch pressed. If voltage is present, replace motor.
	Water has entered motor.	Allow to drain and dry. Run in short burst with load until completely dry.
Motor runs but drum does not turn.	Clutch (cam ring) not engaged.	Move cam ring to the "In" position. If problem persists, a qualified technician needs to check and repair.
Motor runs slowly or without normal power.	Insufficient current or voltage.	The battery is weak, recharge. Run winch with vehicle motor running (battery should have a strong charge).
	Loose or corroded battery cable connections.	Clean, tighten, or replace.
Motor overheating.	Winch running time too long.	Allow winch to cool down periodically.
Motor runs in one direction only.	Defective or stuck contactor.	Tap contactor to loosen contacts.
		Repair or replace contactor.
	Defective switch assembly.	Replace switch assembly.

For further technical support:

Technical Support Team

Toll Free 1-877-338-0999

support@championpowerequipment.com

WARRANTY*

CHAMPION POWER EQUIPMENT
2 YEAR LIMITED WARRANTY

Warranty Qualifications

To register your product for warranty and FREE lifetime call center technical support please visit:

<https://www.championpowerequipment.com/register>

To complete registration you will need to include a copy of the purchase receipt as proof of original purchase. Proof of purchase is required for warranty service. Please register within ten (10) days from date of purchase.

Repair/Replacement Warranty

CPE warrants to the original purchaser that the mechanical and electrical components will be free of defects in material and workmanship for a period of two years (parts and labor) from the original date of purchase and 180 days (parts and labor) for commercial and industrial use. Transportation charges on product submitted for repair or replacement under this warranty are the sole responsibility of the purchaser. This warranty only applies to the original purchaser and is not transferable.

Do Not Return The Unit To The Place Of Purchase

Contact CPE's Technical Service and CPE will troubleshoot any issue via phone or e-mail. If the problem is not corrected by this method, CPE may, at its option, authorize other means of repair and/or replacement.

Warranty Exclusions

This warranty does not cover the following repairs and equipment:

Normal Wear

Products with mechanical and electrical components need periodic parts and service to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment as a whole.

Installation, Use and Maintenance

This warranty will not apply to parts and/or labor if the product is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond the product's limits, modified, installed improperly or connected incorrectly to any electrical component.

Normal maintenance is not covered by this warranty and is not required to be performed at a facility or by a person authorized by CPE.

Other Exclusions

This warranty excludes:

- Cosmetic defects such as paint, decals, etc.
- Wear items such as winch cable, etc.
- Accessory parts such as storage covers.
- Failures due to acts of God and other force majeure events beyond the manufacturer's control.
- Problems caused by parts that are not original Champion Power Equipment parts.

Limits of Implied Warranty and Consequential Damage

Champion Power Equipment disclaims any obligation to cover any loss of time, use of this product, freight, or any incidental or consequential claim by anyone from using this product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

A unit provided as an exchange will be subject to the warranty of the original unit. The length of the warranty governing the exchanged unit will remain calculated by reference to the purchase date of the original unit.

This warranty gives you certain legal rights which may change from state to state or province to province. Your state or province may also have other rights you may be entitled to that are not listed within this warranty.

Contact Information

Address

Champion Power Equipment, Inc.
6370 S Pioneer Way, Unit 101
Las Vegas, NV 89113 USA
www.championpowerequipment.com

Customer Service

Toll Free: 1-877-338-0999
info@championpowerequipment.com
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