

# CHAMPION

POWER EQUIPMENT TM-MC

OWNER'S MANUAL & OPERATING INSTRUCTIONS



10000 lb.

# WINCH KIT

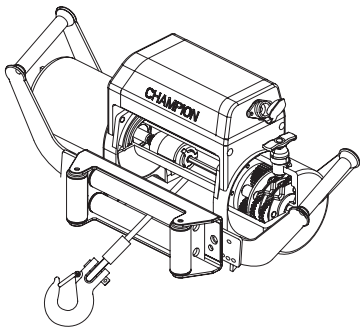
with SPEED MOUNT™ HITCH ADAPTER

MODEL NUMBER

**11006**

**SAVE THESE INSTRUCTIONS**

Important Safety Instructions  
are included in this manual.



# 10000 lb. WINCH KIT

with SPEED MOUNT™ HITCH ADAPTER

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# INTRODUCTION

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## Introduction

Congratulations on your purchase of a Champion Power Equipment winch. CPE designs and builds winches to strict specifications. With proper use and maintenance, this winch will bring years of satisfying service.

## This Booklet

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

## Accessories

Champion Power Equipment manufactures and sells accessories designed to help you get the most from your purchase.

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Record the model and serial numbers as well as date and place of purchase for future reference. Have this information available when ordering parts and when making technical or warranty inquiries.

This manual uses the following symbols to help differentiate between different kinds of information. The safety symbol is used with a key word to alert you to potential hazards in operating and owning power equipment.

Follow all safety messages to avoid or reduce the risk of serious injury or death.

 **DANGER**

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

 **WARNING**

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

 **CAUTION**

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

**CAUTION**

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **may** result in property damage.

## SAFETY RULES

 **WARNING**

Read this manual thoroughly before operating your winch. Failure to follow instructions could result in serious injury or death.

 **WARNING**

Cancer and Reproductive Harm –  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

 **WARNING**

Do not exceed the rated capacity.

 **DANGER**

Do not use this winch for lifting or moving people or animals.

 **DANGER**

Keep yourself and others a safe distance to the side of the cable when under tension.

 **DANGER**

Never step over a cable or near a cable under load.

 **WARNING**

The wire rope may break before the motor stalls. For heavy loads at or near rated capacity, use a pulley block/snatch block to reduce the load on the wire rope.

 **WARNING**

Do not move the vehicle to pull a load (towing) on the winch cable. This could result in cable breakage.

 **WARNING**

Pull only on areas of the vehicle as specified by the vehicle manufacturer.

 **WARNING**

Do not use the winch to secure or hold a vehicle for a long period of time. Do not use the winch to secure a vehicle for transport.

 **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 wire rope. “Shock loads” can far exceed the rate capacity for the wire rope and drum.

Do not accelerate your vehicle while winching. Loss of traction can cause a shock load on the cable.

 **WARNING**

Batteries contain acid and produce explosive gases.

Keep sparks, flames and cigarettes away from batteries at all times. Wear safety glasses and protect the eyes at all times. Do not lean over the batteries during operation.

**⚠ WARNING**

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

To re-spool correctly, and while wearing gloves, keep a slight load on the cable while pushing the remote button to draw in the cable. Walk toward the winch not allowing the cable to slide through your hands. Do not let your hands get within 12 in. of the winch while re-spooling. Turn off the winch and repeat the procedure until a few feet of cable 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 .

**⚠ WARNING**

Do not use as a hoist. Do not use for overhead lifting.

**⚠ CAUTION**

Use gloves to protect hands when handling the cable. Never let the cable slide through your hands.

**⚠ CAUTION**

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

**⚠ CAUTION**

Apply blocks to the wheels of the vehicle when on an incline.

**⚠ CAUTION**

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

If the motor becomes uncomfortably 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.

**⚠ CAUTION**

Never release the free-spool clutch when there is a load on the winch.

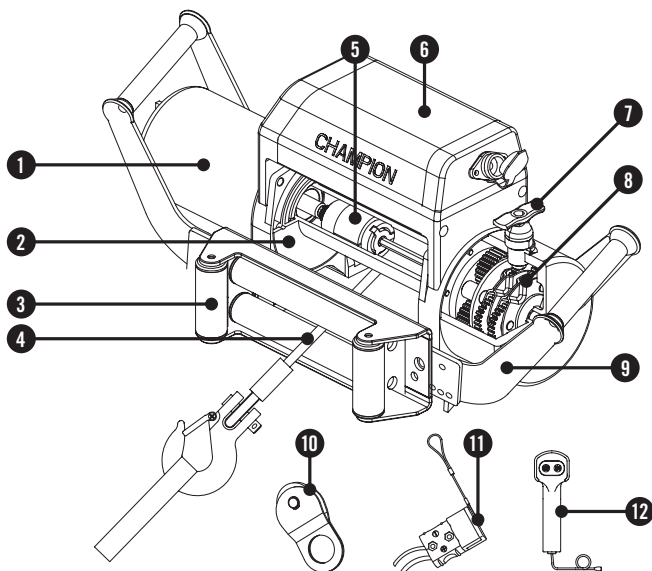
**⚠ CAUTION**

Use hook strap when handling the hook for spooling or unspooling the wire rope.

# CONTROLS AND FEATURES

Read this owner'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 12V DC motor provides power to the planetary gear mechanism.
- (2) **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.
- (3) **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.
- (4) **Wire Rope** – 3/8 in. x 85 ft. galvanized aircraft cable designed specifically for load capacity of 10,000 lb.
- (5) **Braking System** – Braking action is automatically applied to the winch drum by a separate mechanical brake when the winch motor is stopped and there is a load on the wire rope.
- (6) **Solenoid** – Power from the vehicle battery flows through the weather sealed solenoid switch before being directed to the winch motor.
- (7) **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.
- (8) **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.
- (9) **Speed Mount™ Hitch Adapter** – Adapter for front or rear end class III hitch receiver mounting and off-vehicle storage.
- (10) **Snatch Block** – Used properly, the snatch block can double the pulling power of winch, or change your pulling directly without damaging the wire rope.
- (11) **Quick Connect Leads** – 6 ft. heavy duty cables with quick connect leads.
- (12) **Remote Switch** – Dual switches for powering the rope in or out of your winch drum.

This CPE 10,000 lb. ( 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.

## Mounting the Winch

1. Insert 2 M10x35 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.
2. Extend the arms of the Speed Mount™ Hitch Adapter and secure with 4 M8 bolts and M8 nuts.
3. Turn the winch up-side-down; insert 2 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. Disengage the clutch by moving the Cam Ring to the “Out” position. Release the wire rope and pull through the slot in the front of the channel.
5. Attach using the 4 M10 Cap Screws with 4 Lock washers and Flat washers into the hole.
6. Attach the clevis hook and hand strap.
7. Insert the Speed Mount™ Hitch Adapter into your hitch receiver and secure with the pin.

## Mounting the Winch Cont'd.

8. Connect the battery leads. **FOR WINCH TO FUNCTION PROPERLY:** Connect the red (positive) lead of the quick connect to the positive (+) terminal of the vehicle's 12 volt battery. Connect the black (negative) lead of the quick connect to the negative (-) terminal of the vehicle's 12 volt battery.

### ⚠ CAUTION

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

9. Insert the male quick connect into the female quick connect to complete the wiring.
10. Attach the remote lead to the winch and test for proper operation.
11. Check for proper drum rotation. Turn the clutch handle to the “out” position (Free spooling). Pull out some cable from the drum, and then turn the clutch knob to the “In” position to engage the gears. Press the cable out button on the power switch. If the drum is turning and releasing more cable then your connections are accurate. If the drum is turning and collecting more cable then reverse the leads on the motor. Repeat and check rotation.

### ⚠ CAUTION

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



# OPERATION

## General Tips for Safe Operation

Your 11006 winch is rated at a 10,000 lb. 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 8,000 lb. we recommend the use of the pulley block/snatch block to double the wire rope line.

This will aid in two ways:

- reduce the number of rope layers on the drum, as well as,
- reduce the load on the wire 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 rope with the exact specifications.

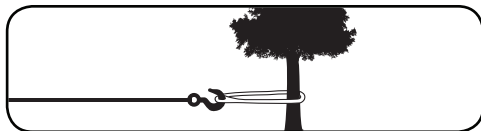
Inspect the winch installation and bolts to ensure that all bolts are tight before each operation. Store the remote control inside your vehicle in a place that it will not be damaged.

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.

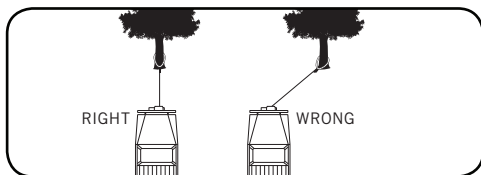
Pull only on areas of the vehicle as specified by the vehicle manufacturer. Only attachments and/or adapters supplied by the manufacturer are to be used.

## Self Recovery

Locate a suitable anchor such as a strong tree trunk or boulder. Always use a sling as an anchor point.

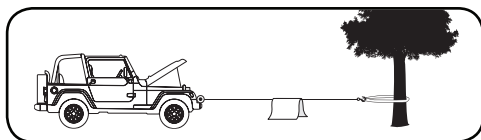


A roller fairlead (not included) will help guide the wire rope and to reduce binding on short side pulls. Do not winch from an acute angle as the wire rope will pile up on one side of the drum causing damage to wire rope and the winch.

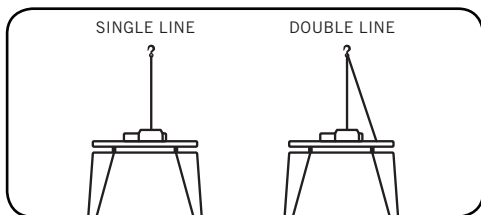


Short pulls from an angle can be used to straighten the vehicle. Long pulls should be done with the wire rope at a 90° angle to the winch/vehicle.

When pulling a heavy load, place a blanket or jacket over the wire rope five or six feet from the hook.



In the event of a broken cable it will dampen the snap back. For additional protection open the hood of the vehicle. For pulls over 8,000 lb., we recommend the use of the snatch block/pulley block to double line the wire 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) Put on gloves to protect your hands.
- (c) Disengage the clutch to allow free- spooling and also save battery power.
- (d) Attach the hook strap to the clevis hook.
- (e) Pull out the wire rope to your desired anchor point using the hook strap.
- (f) Secure the clevis hook to the anchor point: Sling, chain or snatch block. Do not attach the hook back onto the wire rope.
- (g) Engage the clutch.
- (h) Connect the remote control to the winch. If you are going to control the winch from inside your vehicle then pass the remote through an open window to avoid the wires being pinched in the door.
- (i) Start your engine to ensure power is being replenished to the battery.
- (j) Power in the wire rope guiding the wire under tension to draw up the slack in the wire. Once the wire is under tension, stand clear. Never step over the wire rope.
- (k) Double check your anchors and make sure all connections are secure.
- (l) Inspect the wire rope. Make sure there are at least 5 wraps of wire rope around the winch drum.
- (m) Drape a blanket or jacket over the wire rope approximately 5 to 6 feet from the hook. Open the hood for added protection.
- (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 wire 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 wire rope under tension.

## Winching Techniques A-Z Cont'd.

- (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 wire rope. The winch is not meant to hold the vehicle for long periods of time.
- (u) Disconnect the wire rope from the anchor.
- (v) Rewind the wire rope. Make sure that any wire already on the drum has spooled tightly and neatly. If not, draw out the wire and re-spool from the point where the rope is tight.
- (w) Keep your hands clear of the winch drum and fairlead as the wire rope is being drawn in.
- (x) Secure the hook and hook strap.
- (y) Disconnect the remote control and store in a clean, dry place.
- (z) Clean and inspect connections and mounting hardware for next winching operation.

# MAINTENANCE

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The owner/operator is responsible for all periodic maintenance.

## **WARNING**

Never operate a damaged or defective winch.

## **WARNING**

Improper maintenance will void your warranty.

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

## Lubrication

All moving parts within the Electric Winch having been Lubricated using high temperature lithium grease at the factory. No internal lubrication is required. Lubricate Cable 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 to 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.

## Performance Specifications

- Rated Pull	10,000 lb. (4536 kg)
- Gear Reduction Ratio	216:1
- Motor	Series Wound Motor 3.6 HP/2.7 kW (12V DC)
- Duty Cycle	Intermittent Use Only
- Drum Size	2.5 in. (D) x 8.8 in. (L) [63 mm (D) x 224.5 mm (L)]
- Cable	3/8 in. (D) x 85 ft. (L) [9.2 mm (D) x 26 m (L)]
- Gross Weight	125.7 lb. (57 kg)
- Net Weight	116.8 lb. (53 kg)
- Height	10.5 in. (26.7 cm)
- Width	5.6 in. (14.2 cm)
- Length	21.9 in. (55.5 cm)
- Bolt Pattern	10 in. x 4.5 in. (25.4 cm x 11.4 cm)

Line Speed and Motor Current (First Layer)							
Line Pull	LB	0	2000	4000	6000	8000	10000
	KG	0	907	1814	2722	3629	4536
Line Speed (12V DC)	FPM	15.7	9.8	7.2	5.9	4.9	3.9
	MPM	4.8	3.0	2.2	1.8	1.5	1.2
Max Current	A	115	175	220	280	320	400
Run Time*	Minutes	1	1	1	1	1	1
Cooling Time**	Minutes	5	5	5	5	5	5

\* 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.

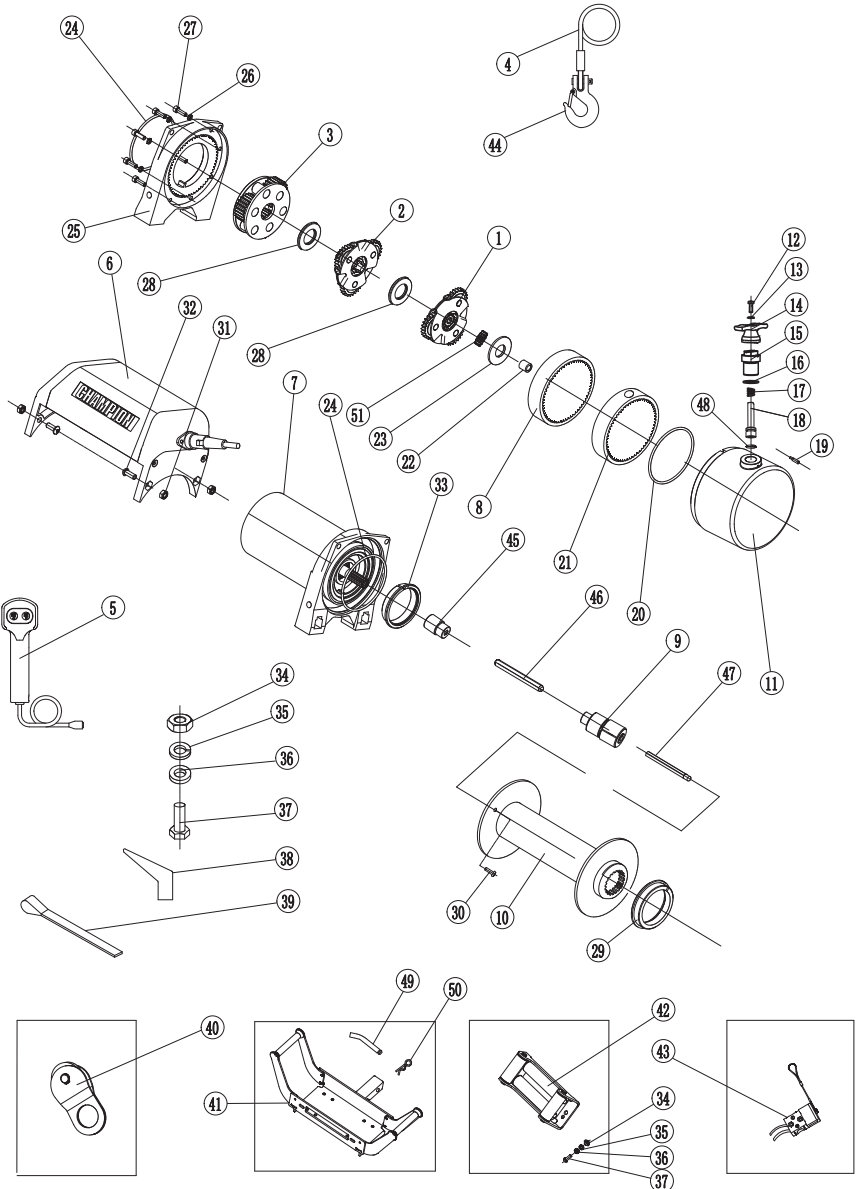
\*\* Electric winches are designed and made for intermittent use and should not be used in constant duty applications.

Line Pull and Cable Capacity Per Layer					
Line of Cable		1	2	3	4
Rated Line Pull	LB	10000	8000	6600	5600
	KG	4536	3629	2994	2540
Cable Capacity	FT	18	39.4	64	85
	M	5.5	12	19.5	26

- Use double line and snatch block for pulling loads over 8,000 lb. (3628.7 kg).

# SPECIFICATIONS

## Parts Diagram



#	Part number	Description	Qty
1	P1010100	Gear Carrier Assembly - Input	1
2	P1010200	Gear Carrier Assembly - Intermediate	1
3	P1010300-N	Gear Carrier Assembly - Output	1
4	P1010400	Cable Assembly	1
5	P1011001-B	Switch Assembly - Black	1
6	P1011002-BF	Up-setting Solenoid Assembly - Black Flat	1
7	P1011003A-BF	Motor/End Bearing Assembly - Black Flat	1
8	P1011021	Gear Housing A	1
9	P1011400	Brake Assembly	1
10	P1011500-BF	Drum Assembly - Black Flat	1
11	P1011005-N-BF	Gear Housing End Cover - Black Flat	1
12	P1011022	Pan Head Screw M5 x 15	1
13	P1011023	Washer Ø5	1
14	P1011024	Clutch Handle	1
15	P1011025	Clutch Seat	1
16	P1011026	Seal Ring Ø20 x 1.8	1
17	P1011027	Spring	1
18	P1011028	Clutch Pin	1
19	P1011029	Set Screw M4 x 8	1
20	P1011010	Gear Housing End Cover Seal	1
21	P1011030	Gear Housing B	1
22	P1011012	Bushing	1
23	P1011013	Thrust Washer	1
24	P1011014	Motor/End Bearing Seal	2

#	Part number	Description	Qty
25	P1011015-N-BF	End Bearing - Black Flat	1
26	P1011016	Lock Washer Ø6	8
27	P1011017	Hexagon Socket Head Screw M6 x 20	8
28	P1011018	Thrust Disc	2
29	P1010008	Bushing -Drum	1
30	P1010012	Cap Screw M6 x 6	1
31	P1010013	Lock Nut M8	4
32	P1010014	Hexagon Socket Head Screw M8 x 25	4
33	P1010015	Motor/Drum Bushing	1
34	810024	Lock Nut M10	6
35	810023	Flat Washer Ø10	6
36	810022	Lock Washer Ø10	6
37	810021	Hexagon Head Bolt M10 x 35	6
38	810025-N	Terminal Protector	3
39	410022	Yellow Strap	1
40	P1011300-BF	Snatch Block - Black Flat	1
41	P1011200-BF	Speed Mount™ Hitch Adapter - Black Flat	1
42	811000-BF	Roller Fairlead - Black Flat	1
43	C18008	6Ft. Cable with Quick Connect	1
44	C10038	3/8 in. Clevis Hook	1
45	810033	Motor Coupling	1
46	P1011033A	Hexagonal Shaft I	1
47	P1011034A	Hexagonal Shaft II	1
48	P1011039	Seal Ø10 x Ø1.8	1
49	250037	5/8 in. Hitch Pin	1
50	250038	R-Pin	1
51	P1011037	Sun Gear, Input	1

# 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.
	Contactors 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 bursts without load until completely dry.
Motor runs but Cable 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.