

Congratulations on your purchase of a Champion Power Equipment winch. CPE designs and builds winches to strict specifications and with proper use and maintenance should bring you years of satisfying service.

⚠ WARNING Read, study, and follow all instructions before operating this device.

Your winch can develop tremendous pulling forces and if used unsafely or improperly could result in property damage, serious injury or death. Throughout this manual you will find the following symbols for caution, warning and danger. Pay particular attention to the notes preceded by these symbols as they are written for your safety. Ultimately, safe operation of this device rests with you, the operator.

⚠ DANGER Indicates a hazard which, if not avoided, will result in death or serious injury.

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

⚠ CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or equipment damage. This notation is also used to alert against unsafe practices.

SAFETY INSTRUCTIONS

⚠ WARNING

Failure to follow these instructions and warnings may result in death, personal injury, or property damage.

⚠ WARNING READ, STUDY AND FOLLOW ALL INSTRUCTIONS BEFORE OPERATING THIS DEVICE.

⚠ WARNING DO NOT EXCEED RATED CAPACITY.

⚠ WARNING Do not use winch for lifting or moving people or animals.

⚠ WARNING A minimum of 5 wraps of cable around the drum barrel is necessary for pulling and holding the rated load. The cable clamp is not designed to hold the load without 5 wraps of cable around the barrel.

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

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

⚠ WARNING Don't move the vehicle to pull a load (towing) on the winch cable. This could result in cable breakage.

⚠ 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.

⚠ 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" of the winch while re-spooling. Turn off the winch and repeat the procedure until a few feet of cable is 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 Don't wrap cable around any object and hook back onto itself.

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

⚠ CAUTION No modifications, alterations, or deviation to the winch are authorized by the manufacturer and should not be made.

⚠ 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 un-spooling the wire rope.

⚠ CAUTION

The C80295 is rated at 7,500 lbs. capacity in first layer (Max) when spooling the first rope layer on the drum. Overloads can damage the winch/motor/ or wire rope. For loads over 5,000 lbs. we recommend the use of the pulley block/snatch block to double the wire rope line. This will aid in two ways: a) reduce the number of rope layers on the drum, as well as, b) reduce the load on the wire rope by as much as 50%. When doubling the line back to the vehicle, attach to the frame or other load bearing part.

⚠ CAUTION

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.

⚠ CAUTION

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.

⚠ CAUTION

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.

⚠ CAUTION

Inspect the winch installation and bolts to ensure that all bolts are tight before each operation.

⚠ CAUTION

Never connect the cable back to itself. This will cause cable damage. Always use a snatch block, sling or chain of suitable strength as shown in the illustrations.

⚠ CAUTION

Store the remote control inside your vehicle in a place that it will not be damaged.

⚠ CAUTION

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.

⚠ CAUTION

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

⚠ CAUTION

Only attachments and/or adapters supplied by the manufacturer are to be used.

CONTENTS

This carton contains the following items, please unpack carefully.

DESCRIPTION	QUANTITY
Winch assembly with wire rope	1
Cap bolt M10x35	6
Lock washers	6
Flat washers	6
M10 nuts	6
Mounting Channel	1
Roller fairlead	1
Snatch block/pulley	1
Clevis hook w/pin	1
Power cord/switch assembly	1
Strap	1

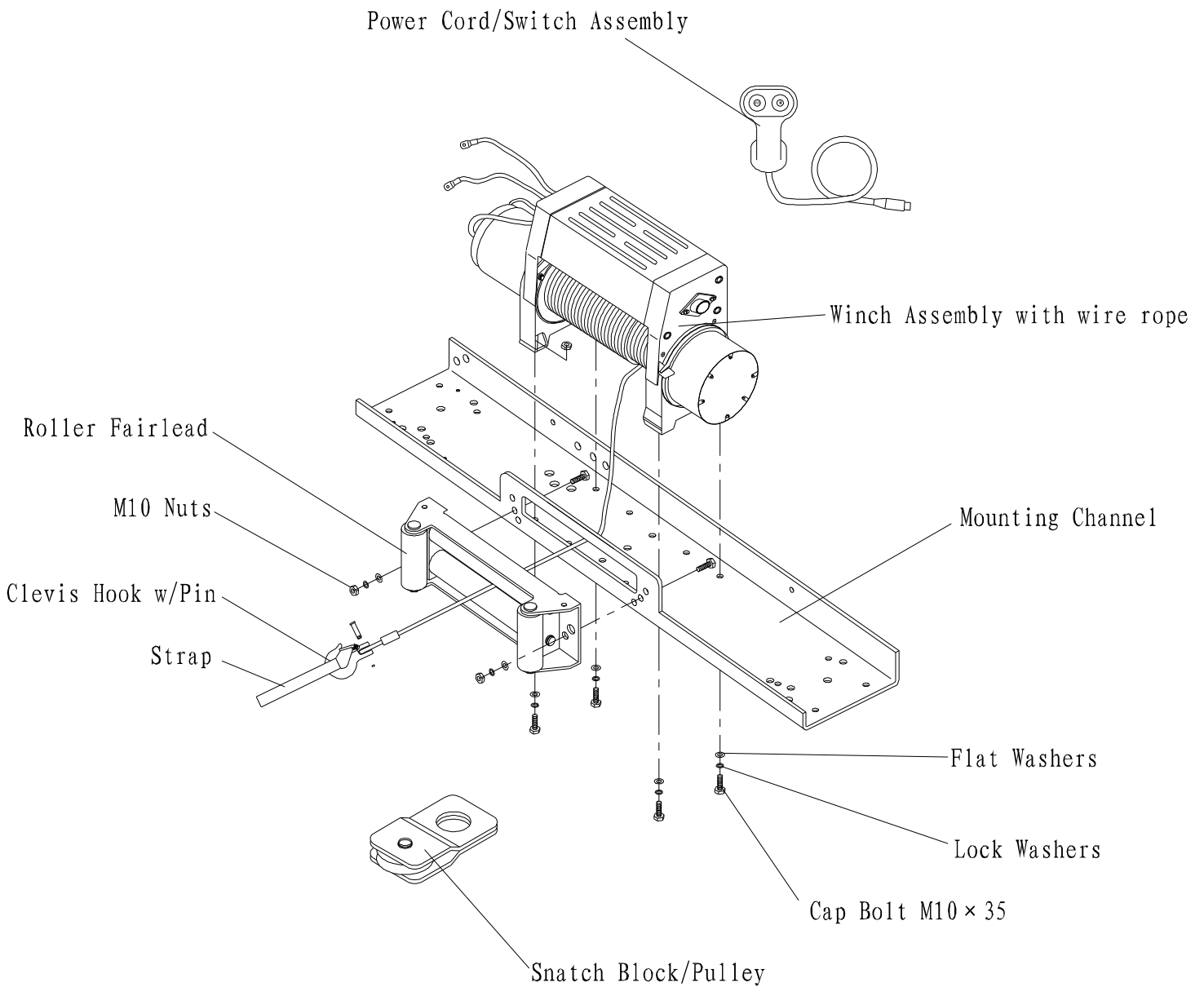


Fig. A

MOUNTING YOUR WINCH

1. This winch is designed with a 10" x 4.5" 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, SUV's and ATV's. 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 mounting channel you must ensure that it is mounted on a flat surface so 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.

2. Insert 2 x M10 Nuts with Lock Washers (Part# 800021 & Part# 800022) to the mounting channel hole and attach the Roller Fairlead to the mounting channel with the 2 Lock Washers and Nut M10 (Part# 800023 & Part# 800024) provided. (See Fig.2)

Mounting bolts must be SAE grade 5 or better and torque to 34 ft. lbs.

3. Turn the winch up-side-down; insert 4 Flat Washers with Nut M10 (Part#800023 & Part# 800024) into the holes of the winch as showed in Fig. 3.

4. Place the Mounting Channel on the winch as shown in Fig. 4. 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. (See Fig. 4)

5. Attach using the 4 x M10 Cap Screws with Lock Washers (Part#800021 & Part# 800022) into the hole (See Fig. 5)

6. Attach the clevis hook and hand strap.(See Fig. 6, Fig. 7)

7. Connect the battery leads. FOR WINCH TO FUNCTION PROPERLY. Connect the red (positive) lead from the solenoid to the positive (+) terminal of the vehicles 12 volt battery. Connect the black (negative) lead from the solenoid to the Negative (-) terminal of the battery.

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

8. Attach the hand held remote lead to the winch and test for proper operation.(See Fig. 9)

9. Check for proper drum rotation. Pull and turn the clutch knob 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.

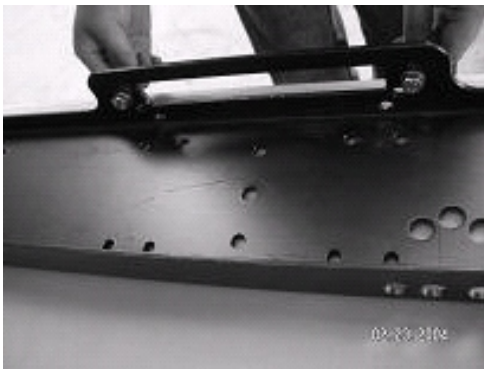


Fig. 1



Fig. 2



Fig. 3



Fig. 4

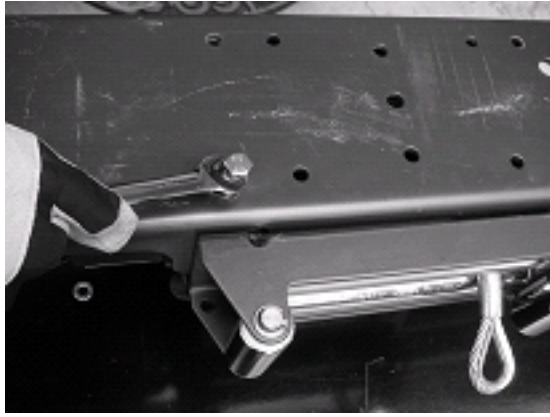


Fig. 5



Fig. 6



Fig. 7



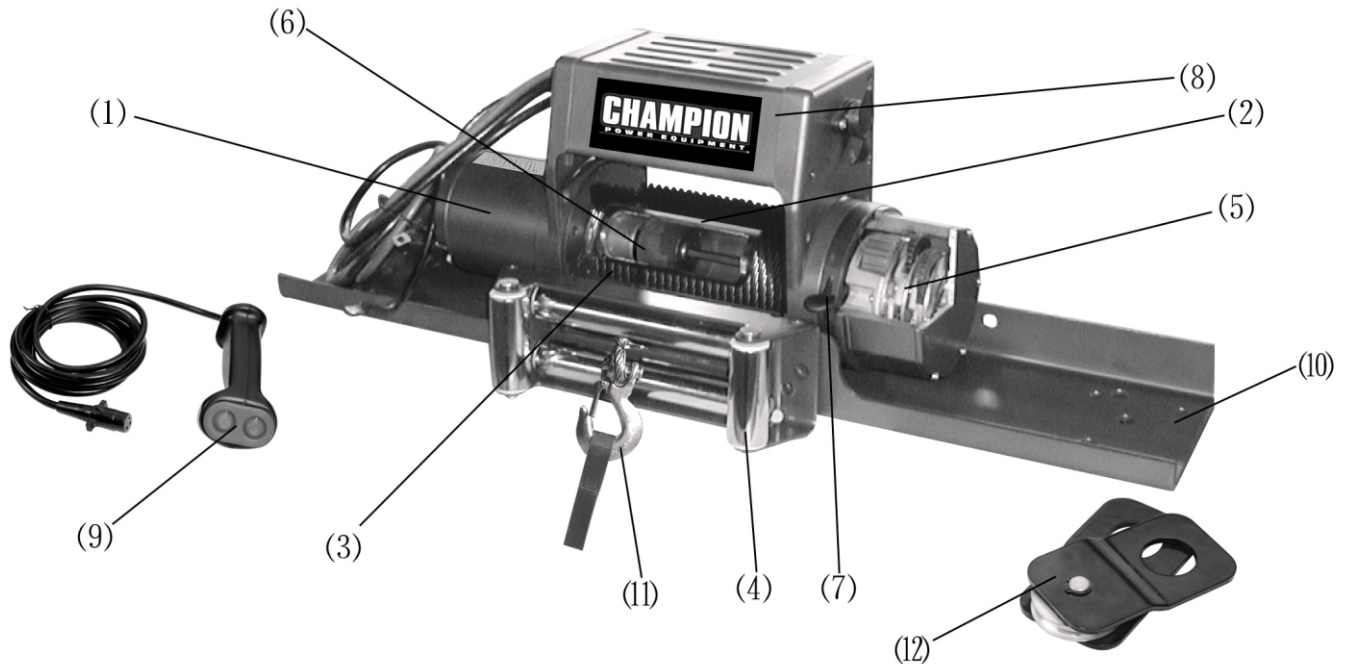
Fig. 8



Fig. 9

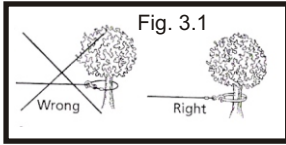
GETTING TO KNOW YOUR WINCH

Your 7,500lb Champion Power Equipment winch is a powerful piece of machinery. It is important that you understand the basics of its operation and specifications so that when you need to use it, you can use it with confidence and safety. Below is a list of the components of your winch and their uses. Practice using your winch before you are in a situation to need to use it.

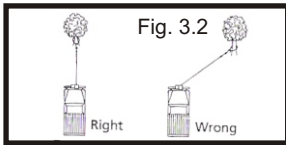


- ① **Motor:** Your 2.2HP motor requires a 650CCA 12 volt battery for operation and provides power to the gear mechanism which turns the drum and winds the wire rope.
- ② **Winch Drum:** The winch drum is the cylinder on which the wire rope is stored. It can feed or wind the rope depending on the remote winch switch.
- ③ **Wire Rope:** Your winch has a 5/16" x 95' galvanized aircraft cable designed specifically for load capacity of 7,500lbs. The wire rope feeds onto the drum in the "under wind" position through the roller fairlead (4) and is looped at the end to accept the clevis hook pin (11).
- ④ **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.
- 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 **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. The braking action is applied by a separate mechanical brake.
- 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 **Solenoid:** Power from the vehicle battery flows through the weather sealed solenoid switch before being directed to the winch motor.
- ⑨ **Remote Switch:** Power switch with 12' cord has a comfort grip and dual switches for powering the rope in or out your winch drum. The 12' cord allows you to stand clear of the wire rope when the winch is under load.
- ⑩ **Universal Flat Bed Mounting Channel:** Your winch has been supplied with a flat bed mounting channel that can be mounted to most flat surfaces such as trailers, step bumpers, truck beds, etc. The mounting channel also has holes to accept your roller fairlead (4).
- ⑪ **Clevis Hook:** Connect the wire rope to the pulled staff, also add to the adaptability of your winch.
- ⑫ **Snatch Block:** Your winch has been supplied with a snatch block that, used properly, can double the pulling power of winch, or change your pulling direction without damaging the wire rope. We recommend you to use a snatch block and double your line for pulling over 5,000 lbs / 2272 kgs.

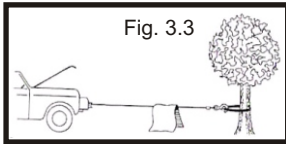
RIGGING TECHNIQUES



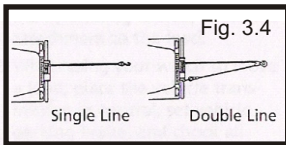
Locate a suitable anchor such as a strong tree trunk or boulder. Always use a sling as an anchor point. **CAUTION-** Do not attach the clevis hook back onto the cable as this could cause damage to the cable. As shown in Fig 3.1



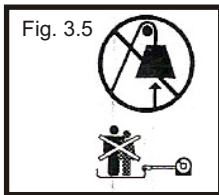
Your winch is equipped with a roller fairlead to help guide the wire rope and to reduce binding on short side pulls. Do not winch from an acute angle as the wire rope will pile up on one side of the drum causing damage to wire rope and the winch. Fig 3.2



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 as shown in Fig 3.3.



For pulls over 5,000lbs., we recommend the use of the snatch block/pulley block to double line the wire rope. Fig 3.4. This reduces the load on the winch and the strain on the rope by approximately 50%.



WARNING - Never use your winch for overhead hoisting or for lifting people or moving people.

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 well 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 all well back 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.
- 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

Lubrication

1. All moving parts within the Electric Winch having been Lubricated using high temperature lithium grease at the factory. No internal lubrication is required.
2. Lubricate Cable Assembly (4) periodically using a light penetrating oil.

Cable Assembly Replacement

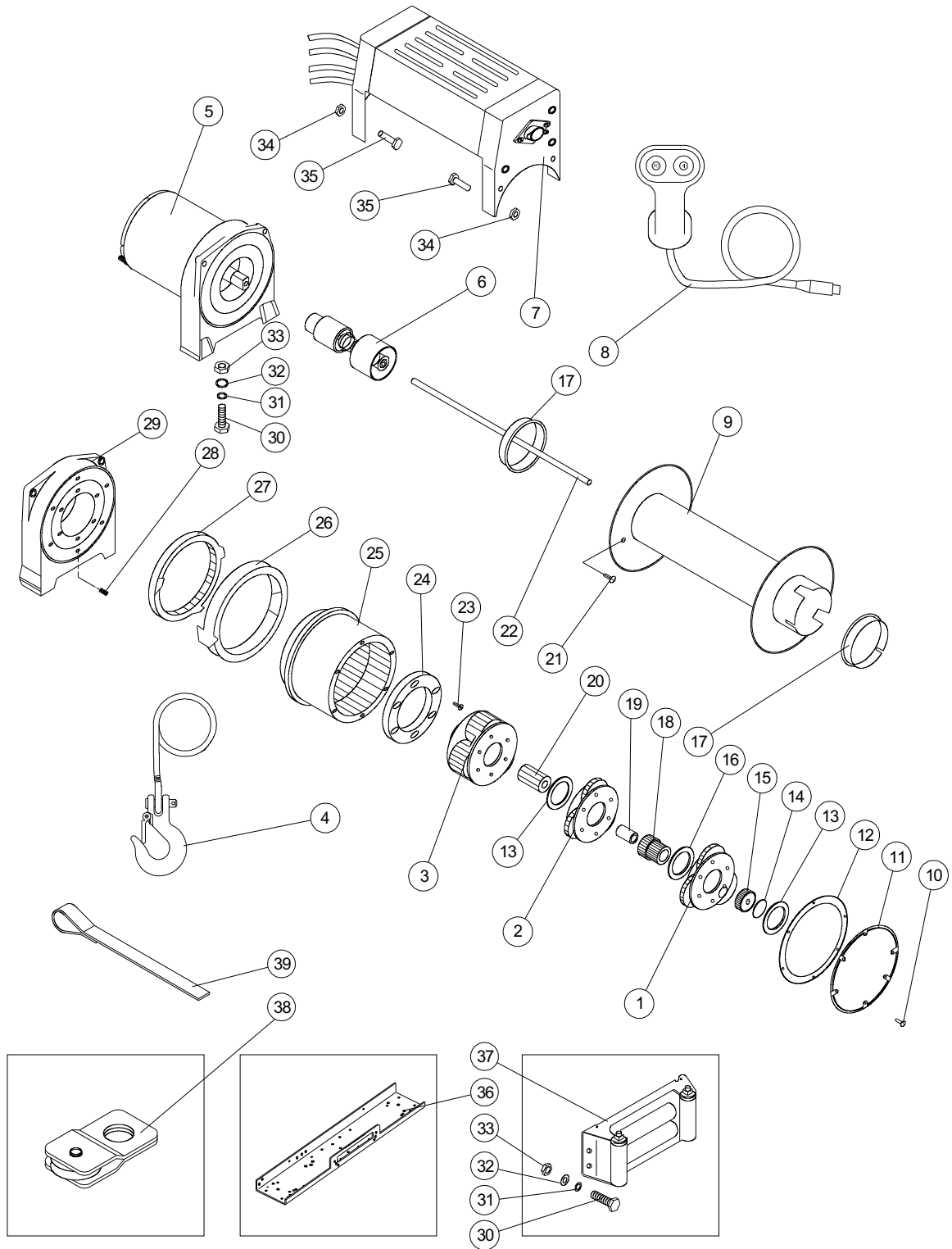
It is recommended that any such modifications be performed by a manufacturer's authorized repair facility, and that only manufacturer-supplied parts be used.

1. Move Cam Ring 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.

TROUBLE SHOOTING

SYMPTOM	POSSIBLE CAUSE	SUGGESTED ACTION
Motor does not turn on	<ul style="list-style-type: none"> -Switch Assembly not connected properly -Loose battery cable connections -Solenoid malfunctioning -Defective Switch Assembly -Defective motor -Water has entered motor 	<ul style="list-style-type: none"> -Insert Switch Assembly all the way into the connector. -Tighten nuts on all cable connections. -Battery should minimum 650CCA. -Tap solenoid to loosen contacts. Apply 12 volts to coil terminals directly. A clicking indicates proper activation. -Replace Switch Assembly. -Check for voltage at armature port with Switch pressed. If voltage is present, replace motor. -Allow to drain and dry. Run in short bursts without load until completely dry.
Motor runs but Cable drum does not turn	<ul style="list-style-type: none"> -Cam Ring (clutch) not engaged 	<ul style="list-style-type: none"> -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	<ul style="list-style-type: none"> -Insufficient current or voltage 	<ul style="list-style-type: none"> -Battery weak, recharge. Run winch with vehicle motor running. -Loose or corroded battery cable connections. Clean, tighten, or replace.
Motor overheating	<ul style="list-style-type: none"> -Winch running time too long 	<ul style="list-style-type: none"> -Allow winch to cool down periodically.
Motor runs in one direction only	<ul style="list-style-type: none"> -Defective or stuck solenoid -Defective Switch Assembly 	<ul style="list-style-type: none"> -Tap solenoid to loosen contacts. -Repair or replace solenoid. -Replace Switch Assembly.

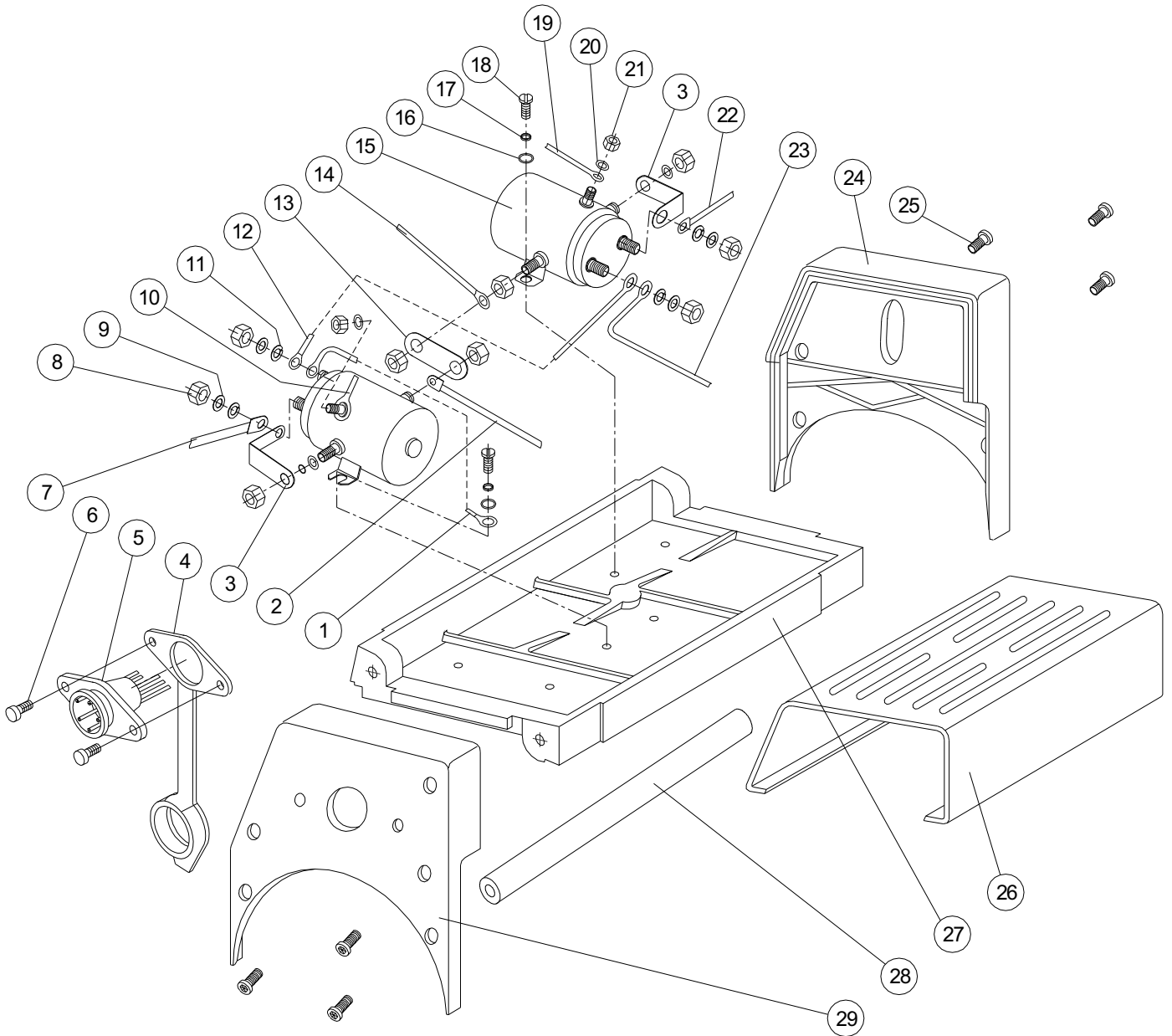
WINCH ASSEMBLY DRAWING



PARTS LIST

No	Part #	Description	Qty
1	800100	Gear Carrier Assembly - Input	1
2	800200	Gear Carrier Assembly - Intermediate	1
3	800300	Gear Carrier Assembly - Output	1
4	800400	Cable Assembly	1
5	800500	Motor/End Bearing Assembly	1
6	800600	Brake Assembly	1
7	800700	Up-setting Solenoid Assembly	1
8	80800	Switch Assembly	1
9	800900	Drum Assembly	1
10	800001	Screw M4 x 12	6
11	800002	Cover - Gear Housing	1
12	800003	Gasket	1
13	800004	Thrust Washer	2
14	800005	Thrust Disc	1
15	800006	Gear-Input, Sun	1
16	800007	Thrust Washer	1
17	800008	Bushing - Drum	2
18	800009	Gear-Intermediate, Sun	1
19	800010	Bushing Shaft	1
20	800011	Gear - Output Sun	1
21	800012	Cap Screw M6 x 10	1
22	800013	Hexagonal Shaft	1
23	800014	Cap Screw M6 x 20	6
24	800015	Retainer - Ring Gear	1
25	800016	Gear - Ring	1
26	800017	Cam Ring	1
27	800018	Locking Ring	1
28	800019	Spring	6
29	800020	End Bearing	1
30	800021	Cap Bolt M10 x 35	6
31	800022	Washer - Flat Φ 10	6
32	800023	Nut M10	6
33	800024	Lock Nut M6	6
34	800025	Cap Screw M6 x 25	4
35	800026	Cap Screw M6 x 10	4
36	800027	Mounting Channel	1
37	800028	Roller Fairlead	1
38	800029	Snatch Block	1
39	800030	Strap	1

SOLENOID ASSEMBLY DRAWING



Note: All unidentified hardware comes supplied with the solenoid.

SOLENOID PARTS LIST

No	Part #	Description	Qty
1	800701	Connect Wire (I)	1
2	800702	Wire Assembly Battery (Red)	1
3	800703	Strap Copper (I)	2
4	800704	Connector Protector	1
5	800705	Connector Female Molded	1
6	800706	Screw M5 x 14	2
7	800707	Wire Assembly (Black)	1
8	800708	Nut M8	16
9	800709	Washer-Flat Φ 8	14
10	800710	Connect Wire (II) (Yellow)	1
11	800711	Lock Washer Φ 8	12
12	800712	Connect Wire (III)	1
13	800713	Strap Copper (II)	1
14	800714	Connect Wire (IV)	1
15	800715	Solenoid	2
16	800716	Washer-Flat Φ 5	6
17	800717	Lock Washer Φ 5	6
18	800718	Screw M5 x 10	4
19	800719	Connect Wire (V) (Red)	1
20	800720	Washer-Flat Φ 5	2
21	800721	Nut M5	4
22	800722	Wire Assembly (Black)	1
23	800723	Wire Assembly Battery (Black)	1
24	800724	Left Side	1
25	800725	Screw M8 x 16	6
26	800726	Solenoid Cover	1
27	800727	Bracket	1
28	800728	Tie Bar	1
29	800729	Right Side	1

WINCH SPECIFICATIONS

Performance Specifications

Rated Pull	7,500 lbs (3,409 kgs)
Gear Reduction Ratio	210:1 (DC 12V)
Motor	Permanent Magnent Motor 2.2 HP / 1.6 KW (DC 12V)
Drum Size	Ø2.48" (D) x 9" (L)
Cable	Ø63 mm (D) x 228 mm (L) Ø5/16" (D) x 95' (L) Ø8 mm (D) x 29 m (L) (Over 90ft. useable length with 5 wraps on the winch drum)
Overall Dimensions	20.9" (L) x 6.25" (W) x 10.63" (H) 530 mm (L) x 160 mm (W) x 270 mm (H)
Weight	65.1 lbs (29.59 kgs)
Mounting Bolt Pattern	10" x 4.5" 254 mm x 114.3 mm

Line Speed and Motor Current (first layer)

(Pull, speed, Volts & Amps)

Line pull Max	lb.	0	2000	4000	6000	7500
	kg.	0	906	1810	2720	3409
Line speed (DC 12V)	FPM	13	9.8	8.2	6	4.3
	MPM	3.9	3	2.5	1.8	1.3
Current (Amps) Max		40	110	190	280	380
Cooling Time (minutes)		5	5	5	5	5

Cable and Line Pull Capacity

Use double line and snatch block for pulling loads over 5000lbs / 2272kg

Layer of cable		1	2	3	4
Rated line pull per layer	lb.	7500	6500	5500	4800
	kg.	3409	2940	2490	2170
Cable capacity per layer	ft.	19.6	42.6	68.9	95
	M	6	13	21	29

Model C80295

7,500 LB 12 Volt Winch

Champion Power Equipment Limited One Year Warranty

Champion Power Equipment Inc. (CPE) warrants to the original purchaser that the mechanical and electrical components will be free of defects in material and workmanship for the period of one (1) year from the original date of purchase. This warranty applies only to the original purchaser of the winch. Warranty registration cards for each winch must be submitted within 30 days of date of purchase. To obtain warranty service you must provide CPE with proof of purchase such as a copy of your purchase receipt from one of CPE's distributors or retail customers. This warranty does not cover the removal or installation of the winch. CPE will, at its option, repair, replace or refund the purchase price of a defective winch or component, provided the defective winch or component is returned during the warranty period, transportation charges prepaid, to CPE's Service Center or a factory authorized service center. This warranty does not apply to the finish or the wire rope/cable. This warranty is void if the winch has been damaged by accident, abuse, misuse, collision, overloading, modification, improper installation, or use in commercial or industrial applications. Using the winch as a hoist also will void the warranty.

The warranty as set forth above is the only warranty. There are no other warranties, expressed or implied.

Warranty inquiries can be sent to:
Champion Power Equipment, Inc.
10006 Santa Fe Springs Road
Santa Fe Springs, CA 90670, USA
Tel: 1-562-236-9422
Fax: 1-562-236-9429