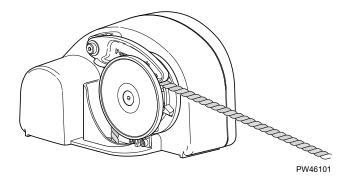


36', 41' and 46' Class Anchor Winch

These instructions apply to all models listed. Details and procedures unique to a specific model are labeled appropriately.

# FREE FALL ROPE AND CHAIN ANCHOR WINCH



- 12 Volt Powered Winch
- Power-In / Freewheel-out operation



Thoroughly read the manual furnished with this product and be familiar with the controls. Do not allow individuals to operate the winch without understanding the safe operation and procedures for the equipment.

## **PROPRIETARY STATEMENT**

The *Powerwinch* Anchor Winch is a product of Carefree of Colorado, located in Broomfield, Colorado, USA. The information contained in or disclosed in this document is consideRED proprietary to Carefree of Colorado. Every effort has been made to ensure that the information presented in the document is accurate and complete. However, Carefree of Colorado assumes no liability for errors or for any damages that result from the use of this document.

The information contained in this manual pertains to the current configuration of the models listed on the title page. Earlier model configurations may differ from the information given. Carefree of Colorado reserves the right to cancel, change, alter or add any parts and assemblies, described in this manual, without prior notice.

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## SAFETY INFORMATION

The following Safety Precautions Must be Followed at ALL Times. Failure to follow the warnings and cautions in this manual could result in serious injury and/or property damage.

**WARNING** This product can expose you to chemicals including Di-isodecyl phthalate (DIDP), Vinyl Chloride and Cumene, which are known to the state of California to cause cancer or birth defects or other reproductive harm. For more information visit www.P65warnings.ca.gov

**CAUTION** Always block the vehicle wheels to help prevent the vehicle from moving when pulling a load with the winch.

CAUTION SHOCK HAZARD. ALWAYS unplug the wiring harness before attempting to install, relocate, service or perform maintenance on the winch.

**CAUTION** NEVER use the winch to lift or move people or animals.

**CAUTION** NEVER use the winch for overhead lifting.

**CAUTION** NEVER attempt to pull a load greater than the rated load of the winch.

CAUTION ALWAYS stand away from the winch during operation.

ALWAYS keep objects, people and animals away from the camper and camper top when operating the winch. Serious injury could occur if the cable breaks.

**CAUTION** NEVER wear loose fitting clothes, scarves, ties or jewelry when operating the winch. Loose clothing can become caught in moving parts.

CAUTION ALWAYS keep hands clear of the cable spool (drum area).

**CAUTION** ALWAYS wear leather gloves when handling the rope and chain.

**CAUTION** ALWAYS tie off the anchor to a secure mount (e.g. a deck cleat) for storage and after lowering the anchor. NEVER use the winch to tie off the anchor.

**CAUTION** ALWAYS stand away from the winch during operation. ALWAYS stand clear of the area behind and between the load and the winch. Serious injury could occur if the rope breaks.

**CAUTION** NEVER place foreign objects in the gypsy while retrieving or free falling the anchor. Serious injury can occur.

### **SPECIFICATIONS**

#### DAVIT/BOW ROLLER

This product requires the use of a closed loop davit or bow roller. Davit or bow roller must be installed prior to installing anchor winch to ensure proper performance.

**WARNING** Use of a davit with an open loop is not recommended with this product. Use a davit with a closed loop to prevent serious personal injury and/or property damage.

#### **FURNISHED MATERIALS:**

	36'		41'		46'
qty	Description	qty	Description	qty	Description
1	Anchor Winch	1	Anchor Winch	1	Anchor Winch
3	5/16-18 x 3.5 Stud	3	5/16-18 x 3.5 Stud	3	5/16-18 x 3.5 Stud
3	5/16 Lock Washer	3	5/16 Lock Washer	3	5/16 Lock Washer
3	5/16 Flat Washer	3	5/16 Flat Washer	3	5/16 Flat Washer
3	5/16-18 Nut	3	5/16-18 Nut	3	5/16-18 Nut
1	25A Circuit Breaker	1	25A Circuit Breaker	1	60A Circuit Breaker
1	Switch Plate	1	Switch Plate	1	Switch Plate
4	#10 x 3/4 Screw	4	#10 x 3/4 Screw	4	#10 x 3/4 Screw
1	Switch, DPDT	1	Switch, DPDT	1	Switch, SPDT
				1	Relay Module
				4	6awg to 8awg splices
				2	6" Red Jumper 8awg
				2	6" Black Jumper 8awg
1	Mounting Template	1	Mounting Template	1	Mounting Template

**REQUIRED MATERIALS (NOT INCLUDED WITH WINCH)** 

- Marine grade plywood for under deck support (optional).
- Loctite 242 thread locker or equivalent (optional).
- Silicone sealant.

#### Required Materials for Electrical Installation - 36' and 41' Class

The following items are required for the electrical installation of the 36' and 41' winch. These items are furnished by the installer.

2 ft       12 awg RED Wire       Class 105°C         2 ft       12 awg BLACK Wire       Class 105°C         70 ft       6 awg RED Wire       Class 105°C         70 ft       6 awg RED Wire       Class 105°C         70 ft       6 awg RED Wire       Class 105°C         8       6 awg BLACK Wire       Class 105°C         9       9       8         10       5/16" 6 awg ring terminals       5         4       5/16" 12 awg ring terminals       6         4       1/4" 12 awg insulated female spade quick disconnects       6         6       1/4-20 x 1/2 Screws       Screws and nuts should be stainless         6       1/4-20 Nuts       steel to avoid rust and corrosion.         Wire ties       2       4" diameter beat abrink"	Qty	Description	
70 ft       6 awg RED Wire       Class 105°C       6 awg wire is the "run" wire from anchor to         70 ft       6 awg BLACK Wire       Class 105°C       switch and battery to switch. Length is based on installation.         10       5/16" 6 awg ring terminals       4       5/16" 12 awg ring terminals         4       1/4" 12 awg insulated female spade quick disconnects       6         6       1/4-20 x 1/2 Screws       Screws and nuts should be stainless steel to avoid rust and corrosion.         Wire ties       Vire ties	2 ft	12 awg RED Wire Class 105°C	
70 ft       6 awg BLACK Wire       Class 105°C       switch and battery to switch. Length is based on installation.         10       5/16" 6 awg ring terminals       4         4       5/16" 12 awg ring terminals       4         4       1/4" 12 awg insulated female spade quick disconnects       6         6       1/4-20 x 1/2 Screws       Screws and nuts should be stainless steel to avoid rust and corrosion.         Wire ties       5	2 ft	12 awg BLACK Wire Class 105°C	
based on installation.       10     5/16" 6 awg ring terminals       4     5/16" 12 awg ring terminals       4     1/4" 12 awg insulated female spade quick disconnects       6     1/4-20 x 1/2 Screws       6     1/4-20 Nuts       5     Screws and nuts should be stainless steel to avoid rust and corrosion.	70 ft	6 awg RED Wire Class 105°C	6 awg wire is the "run" wire from anchor to
10       5/16" 6 awg ring terminals         4       5/16" 12 awg ring terminals         4       1/4" 12 awg insulated female spade quick disconnects         6       1/4-20 x 1/2 Screws         6       1/4-20 Nuts         Wire ties       steel to avoid rust and corrosion.	70 ft	6 awg BLACK Wire Class 105°C	switch and battery to switch. Length is
4       5/16" 12 awg ring terminals         4       1/4" 12 awg insulated female spade quick disconnects         6       1/4-20 x 1/2 Screws         6       1/4-20 Nuts         Steel to avoid rust and corrosion.			based on installation.
4       1/4" 12 awg insulated female spade quick disconnects         6       1/4-20 x 1/2 Screws       Screws and nuts should be stainless         6       1/4-20 Nuts       steel to avoid rust and corrosion.         Wire ties       Vire ties	10	5/16" 6 awg ring terminals	
spade quick disconnects         6       1/4-20 x 1/2 Screws         Screws and nuts should be stainless         6       1/4-20 Nuts         Steel to avoid rust and corrosion.         Wire ties		5/16" 12 awg ring terminals	
6     1/4-20 x 1/2 Screws     Screws and nuts should be stainless       6     1/4-20 Nuts     steel to avoid rust and corrosion.       Wire ties     Vire ties	4	1/4" 12 awg insulated female	
6     1/4-20 Nuts     steel to avoid rust and corrosion.       Wire ties		spade quick disconnects	
Wire ties	6	1/4-20 x 1/2 Screws	Screws and nuts should be stainless
	6	1/4-20 Nuts	steel to avoid rust and corrosion.
2 ft 1" diameter haat abrink		Wire ties	
	2 ft	1" diameter heat shrink	
2 ft 2" diameter heat shrink	2 ft	2" diameter heat shrink	

### Required Materials for Electrical Installation - 46' Class

The following items are required for the electrical installation of the 46' winch. These items are furnished by the installer.

Qty	Description	
8 ft	16 awg RED Wire Class 105°C	16 awg wire is used to connect the switch to
8 ft	16 awg WHITE Wire Class 105°C	the relay module. Wire length is dependent
8 ft	16 awg BLACK Wire Class 105°C	on installation.
70 ft	6 awg RED Wire Class 105°C	6 awg wire is the "run" wire from anchor to
70 ft	6 awg BLACK Wire Class 105°C	relay module and battery to relay module.
		Wire length is based on installation.
6	5/16" 6 awg ring terminals	
4	3/8" 8-10 awg insulated female	
	spade quick disconnects	
6	1/4" 16 awg insulated female	
	spade quick disconnects	
1	In-Line Fuse Holder	
1	10A fuse	
2	16 awg butt connectors	
2	1/4-20 x 1/2 Screws	Screws and nuts should be stainless
2	1/4-20 Nuts	steel to avoid rust and corrosion.
	Wire ties	
2 ft	1" diameter heat shrink	
1 ft	2" diameter heat shrink	
_		

#### **ROPE AND CHAIN RODES**

This product is designed to raise and lower anchors using spliced rope and chain rodes (a rode is a length of rope and chain). It is very important that only sizes and brands of spliced rope and chain rodes specified below are used. Use of non-specified ropes and chains could cause reduced levels of performance or serious personal injury and/or property damage.

#### Recommended Rope and Chain Rodes

MODEL	Required Rope	Required Chain
36'	1/2" Diameter, 3 strand, medium lay, premium	1/4" Acco G4
	nylon Powerwinch rope or New England Rope	Hi-Test chain.
41' and 46'	5/8" Diameter, 3 strand, medium lay, premium nylon Powerwinch rope or New England Rope	5/16" Acco G4 Hi-Test chain.

**NOTICE** Use only spliced rope and chain rodes. Shackles should never be used to secure rope to chain. Shackles will damage winch and void warranty.

**CAUTION** ALWAYS use the recommended rope and chain rode. Use of different rope can cause property damage and personal injury.

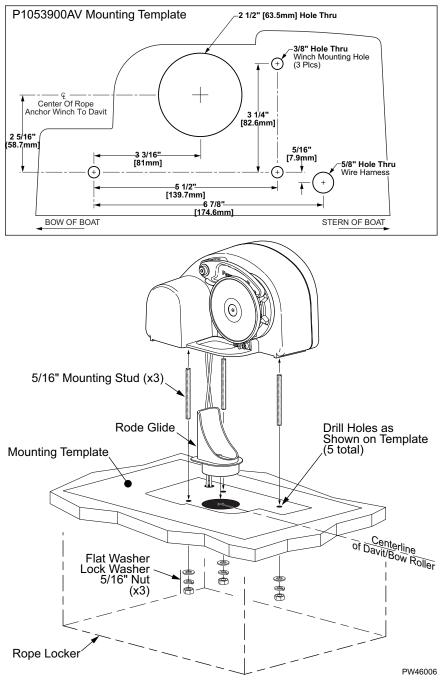
Rope and chain rodes are sold separately and not included with winch.

#### **ROPE LOCKER**

The anchor winch must be positioned above a rope locker. The anchor line and chain feed into the rope locker through a deck insert (rode glide) mounted through the deck. Minimum locker dimensions for storage of lines are shown.

Line	Locker Dimensions
Dimensions	L x W x D
1/2" x 200'	15" x 17" x 12"
1/2" x 300'	15" x 24" x 12"
5/8" x 200'	15" x 24" x 12"
5/8" x 300'	16" x 32" x 12"

## MOUNTING THE UNIT



#### Powerwinch

- 1. Place the mounting template on the deck in the desired location and secure with tape.
  - The winch must be placed above the rope locker.
  - The centerline of the gypsy must line up with the centerline of the davit or bow roller.
- 2. Drill the holes as marked on the template.
- 3. Remove the template.
- 4. Place a bead of silicone sealant around the base of the rode guide. Insert the rode guide into the 2 1/2" hole. The half-moon cut out must face the davit or bow roller.
- 5. Use a small amount of thread locker and thread the 5/16-18 x 3 1/2" studs into the winch. Hand tighten until snug.
- 6. Align the winch over the rode glide and align the studs with the holes in the deck. Insert the wires through the hole in the deck. Lower the winch to the deck.
- 7. Under the deck, secure the winch to the deck use one (1) each 5/16 flat washer, 5/16 lock washer and 5/16 nut on each of the studs. Tighten the nuts to secure the winch to the deck.

## WIRING THE UNIT

WARNING SHOCK HAZARD. ALWAYS disconnect the battery before working on electrical equipment.

**WARNING** ALWAYS use the recommended wire size and rated circuit breakers. Failure to use the furnished and recommended sizes can cause a fire hazard and void warranty.

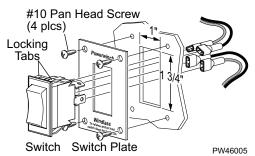


When routing the wiring, avoid sources of heat.

**NOTICE** When routing the wiring, avoid sharp edges that can cut or fray the wire insulation.

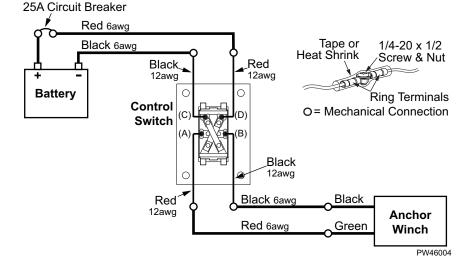
### 36' & 41' WIRING

- Locate a suitable location for the switch. Ensure that there is adequate room behind the mounting surface for the switch and wiring.
- 2. Cut a 1" x 1 3/4" hole into the surface.
- 3. Press the switch into the switch plate until the locking tabs click into place.



- 4. Cut two (2) each 12" long pieces of the RED and BLACK 12 awg wire.
- 5. Terminate one end of each wire with a 12awg 1/4" female disconnect. Ensure that the crimp is solid and cannot pull off.
- 6. Terminate the other end of each wire with a 12awg 5/16" ring terminal.
- 7. Connect the wires to the switch using the female disconnects as shown in the wiring diagram (see next page).
- 8. Set switch aside.
- 9. Route one RED and one BLACK 6 awg wire from the anchor to the switch location. Be sure to allow adequate wiring to make connections, allow the wire to have some slack when routing. Secure the wires with wire ties.
- 10. At the winch position, terminate the wires from the winch and the ends of the new wires with 5/16" 6 awg ring terminals.

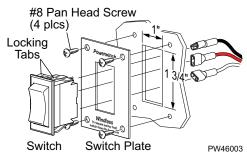
Tip: Before making the mechanical connection, slide a 2 1/2" piece of the shrink tubing over one wire. Make the connection then slide the wrap over the connection. Lightly heat the wrap until it shrinks around the terminals.



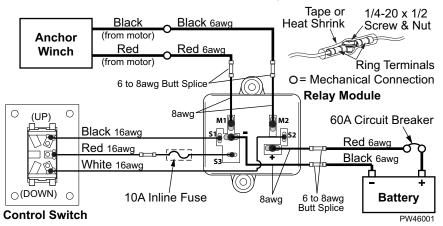
- 11. Connect the motor GREEN wire to the new RED wire with a 1/4 -20 screw and nut. Position the wrap and lightly heat until it shrinks around the terminals.
- 12. Connect the motor BLACK wire to the new BLACK wire with a 1/4 -20 screw and nut. Position the wrap and lightly heat until it shrinks around the terminals.
- 13. At the switch position, terminate the ends of the new wires with 5/16" 6 awg ring terminals.
- 14. Connect the switch RED wire to the winch RED wire with a 1/4 -20 screw and nut. Position the wrap and lightly heat until it shrinks around the terminals.
- 15. Connect the switch BLACK wire to the winch BLACK wire with a 1/4 -20 screw and nut. Position the wrap and lightly heat until it shrinks around the terminals.
- 16. Route 1 RED and 1 BLACK 6 awg wire from the battery to the switch location. Be sure to allow adequate wiring to make connections, allow the wire to have some slack when routing. Secure the wires with wire ties.
- 17. At the switch position, terminate the ends of the new wires with 5/16" 6 awg ring terminals.
- Connect the switch RED wire to the battery RED wire with a 1/4 -20 screw and nut. Position the wrap and lightly heat until it shrinks around the terminals.
- 19. Connect the switch BLACK wire to the battery BLACK wire with a 1/4 -20 screw and nut. Position the wrap and lightly heat until it shrinks around the terminals.
- 20. Push the switch and wires into the switch mounting hole. Secure the switch plate using 4 #10 screws.
- 21. At the battery location, terminate each wire with a 5/16" ring terminal.
- 22. Attach the BLACK wire to the negative (-) post of the battery.
- 23. Attach the RED wire to the post on the circuit breaker.
- 24. Attach the circuit breaker to the positive (+) post of the battery.

### 46' WIRING

- Locate a suitable location for the switch. Ensure that there is adequate room behind the mounting surface for the switch and wiring.
- 2. Cut a 1" x 1 3/4" hole into the surface.
- Press the switch into the switch plate until the locking tabs click into place. Set switch aside



- 4. Locate a suitable location for the relay module.
  - a. The relay should be within 6' of the switch location.
  - b. The location should be protected from exposure to water.
  - c. Mount the relay with power terminals facing up.

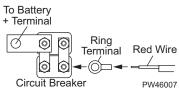


- Route one Black, one RED and one WHITE 16 awg wire from the relay module to the switch location. Be sure to allow adequate wiring to make connections, allow the wire to have some slack when routing. Secure the wires with wire ties.
- 6. At the switch, terminate the ends of the wires with 1/4" 16 awg insulated female quick disconnects. Attach wires to switch as shown in the wiring diagram.
- 7. Push the switch and wires into the switch mounting hole. Secure the switch plate using 4 #10 screws.
- 8. At the relay, terminate the BLACK and WHITE wires with 1/4" 16 awg insulated female quick disconnects. Attach wires to relay terminals S1 and S2.
- 9. Using a butt connector attach one end of the in-line fuse holder to the RED wire. Terminate the other end of the fuse holder with a 1/4" 16 awg insulated female quick disconnect. Attach fuse to relay terminal S3.
- 10. If not previously done, insert an ATO style 10A fuse into the in-line fuse holder.
- 11. Route one RED and one BLACK 6 awg wire from the anchor to the switch location. Be sure to allow adequate wiring to make connections, allow the wire to have some slack when routing. Secure the wires with wire ties.

12. At the winch position, terminate the wires from the winch and the ends of the new wires with 5/16" 6 awg ring terminals.

*Tip:* Before making the mechanical connection, slide a 2 1/2" piece of the shrink tubing over one wire. Make the connection then slide the wrap over the connection. Lightly heat the wrap until it shrinks around the terminals.

- 13. Connect the two RED wires with a 1/4 -20 screw and nut. Position the wrap and lightly heat until it shrinks around the terminals. Repeat for the BLACK wire.
- 14. At the relay:
  - Attach one (1) 8awg jumper to each winch wire using the supplied butt splices. Match wire colors. Insulate the connectors with shrink wrap or electrical tape.
  - b. Terminate the jumper ends with 8 awg 3/8" insulated female disconnects.
  - c. Attach the winch wires to the relay terminals M1 (red) and M2 (black).
- 15. Route one RED and one BLACK 6 awg wire from the relay to the battery. Be sure to allow adequate wiring to make connections, allow the wire to have some slack when routing. Secure the wires with wire ties.
- 16. At the relay:
  - Attach one (1) 8awg jumper to each battery wire using the supplied butt splices. Match wire colors. Insulate the connectors with shrink wrap or electrical tape.
  - b. Terminate the jumper ends with 8awg 3/8" insulated female disconnects.
  - c. Attach the battery wires to the relay terminals + (red) and (black).
- At the battery, terminate the wires with 5/16"
   6 awg ring terminals. Attach the BLACK wire to the negative (-) terminal of the battery.
- 18. Connect the RED wire to the circuit breaker.



19. Connect the circuit breaker to the positive (+) terminal of the battery.

#### TESTING THE UNIT

- 1. Ensure that all connections are secure and correct. For the 46' make sure that the in-line fuse is installed in the Red wire between the switch and relay module.
- 2. Without rope or chain in gypsy, press and hold switch in upward position. If wiring to switch terminals is correct, gypsy will spin counterclockwise.

If gypsy does not turn, but motor runs, switch is incorrectly wired. To correct, switch the black and white wires on back of the switch.

### LOADING THE ROPE AND CHAIN RODE

(Refer to the rope and chain requirements on page 3.)

- 1. Feed rope through davit or bow roller and pull toward anchor winch. Make sure rope is not twisted or kinked and can freely run through bow roller or davit.
- 2. Lift finger and insert rope into rode glide and down into rope locker. Allow enough slack so rope can be tied off in rope locker.
- 3. Release finger and make sure rope is firmly seated in the gypsy.
- 4. Go below to rope locker and tie rope off.
- 5. Press switch up and begin retrieving rope and chain into rope locker.

## **OPERATING THE ANCHOR WINCH**

**CAUTION** NEVER use the winch to exclusively hold, support or permanently secure the load. ALWAYS secure the rope to a deck cleat or similar device.

**NOTICE** To prevent damage to the motor, do not operate the winch continuously for periods over 20 minutes. Allow the motor to "rest" for a minimum of 1 hour.

#### ANCHORING

- 1. Turn boat into wind and place boat motors in neutral.
- 2. After the boat has stopped all forward progress, drop anchor by pressing the winch switch in the down position for approximately 5 seconds. After the anchor has begun to free-fall it is safe to release the switch.

### **NOTICE** Never reverse the winch while the unit is in free-fall mode.

- 3. After the desired amount of rope has been release, retrieve 3'-5' of line by pressing the switch in the up position.
- 4. Tie the rope off to a deck cleat. <u>DO NOT</u> use the winch to tie-off the anchor.
- 5. Place the boat's motors in neutral and allow the boat to drift back and set the anchor in the sea bed.

#### **RETRIEVING THE ANCHOR**

- 1. Untie the rope from the deck cleat.
- 2. Align bow of boat with anchor rode.
- 3. Place the boat's motors in forward and move boat slowly toward the anchor point. While moving press the winch switch in the UP position.

**NOTICE** Do not pull the boat to the anchor point with the anchor winch. This can cause damage to the winch motor and gear train. Always use the boat motor to move toward the anchor point.

- 4. When the chain begins enter gypsy, the rode is almost retrieved. Do not allow the anchor to pull up to quickly into the davit or bow roller.
- 5. When the anchor reaches the davit or bow roller, do not place too much tension on the chain between the winch and anchor. This can cause damage to the davit or winch gypsy.
- 6. Tie off the anchor for storage and travel.

#### MAINTENANCE

Following each boat outing, flush exterior of winch with fresh water. Use only mild detergents to clean exterior. Use of solvents can cause damage to the finishes and seals, as well as void product warranty

Every 6 months inspect gypsy, stripper, finger and deck insert for wear. Replace any worn components.

Check electrical connections every 6 months for corrosion. Replace any connection or wire which is damaged, corroded, frayed or worn.

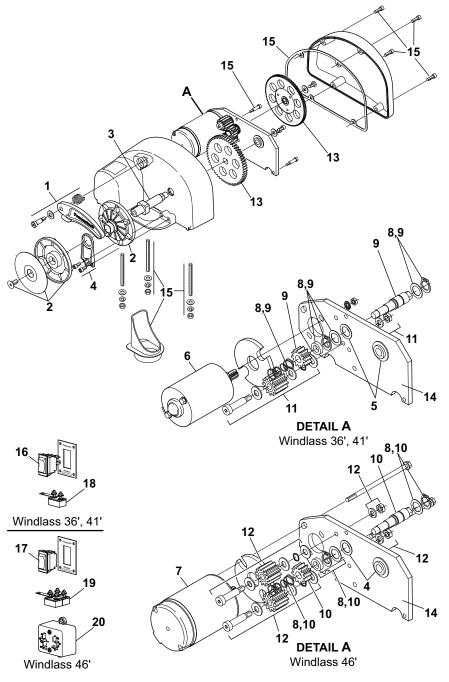
Check rope periodically for abrasion or deep cuts. Never splice an old rope with a new rope. If replacement is necessary, use only Powerwinch® rope specifically designed for this product.

Check chain periodically for bent links and corrosion. Damaged links can become jammed in gypsy or damage stripper and finger. Use of damaged chain will void warranty.

#### TROUBLESHOOTING GUIDE

Wii	NCH DOES NOT OPERATE			
A.	<ol> <li>Confirm power to winch</li> <li>Check battery is fully charged</li> <li>Confirm connections are tight &amp; clean.</li> <li>Check wires if worn or bare that may cause shorts</li> </ol>		Correct as required.	
В.	Check circuit breaker at battery			
	Bypass circuit breaker and test winch. Does the winch run?	Yes	If winch runs, circuit breaker is bad, replace.	
	NOTICE Do not operate the winch	No	Reconnect circuit breaker and go to step C.	
	without the circuit breaker. Removing the CB from the circuit is ONLY for testing.			
С.	Check In-Line Fuse (46' only)			
	A 10 amp in-line fuse is located between the switch and relay module. Refer to page 8.	Yes	Fuse is good. Contact your authorized service center.	
	, , , , , , , , , , , , , , , , , , , ,	No	Replace Fuse and test winch operation.	
Ro	PE SLIPS OR JAMS WHEN RETRIEVING	· · ·		
Α.	<ol> <li>Wrong rope size.</li> <li>Rope is frayed and worn.</li> </ol>	Replace rope. Refer to page 3 for recommended rope.		
	3. Rope is too stiff.	recommended tope.		
Сн	AIN SLIPS OR JAMS			
Α.	1. Wrong chain size.	Replace chain. Refer to page 3 for		
	2. Links are bent or corroded.	recommended chain.		
	3. Chain is kinked	Unkink chain		
ANCHOR LINE WILL NOT FREE-FALL				
A	1. Rope tangled in rope locker	Untangle rope, Be sure rope is no kinked or twisted before anchoring		
	2. Chain is kinked	Unkink chain.		
	3. Anchor is wedged in bow roller	Free	anchor	

## **REPLACEMENT PARTS LIST**



Powerwinch

36', 41' AND 46' ANCHOR WINCH

Item         Description         36' Class         41' Class         46' Class         Notes           1         Finger Kit         R001443         R001443         R001443         R001443           2         Gypsy Kit         R001431         R001449         R001449         R001449           3         Gypsy Shaft Kit         P10341         P10341         P10341         P10341           4         Stripper Kit         R001432         R001432         R001432         R001432           5         Bearing Kit         P10343         P10343         P10343         P10343           6         Motor Kit         R001434         R001434             7         Motor Kit         R001435         R001435         R001435         R001435           9         Spin Off Gear Kit         R001436         R001436          1           10         Spin Off Gear Kit         R001437         R001437          1           11         Locking Gear Kit         R001438         R001438         R001438         14           13         Gear Kit         R001439         R001439         R001440         1440           15         Fastener Kit				,		
2         Gypsy Kit         R001431         R001449         R001449           3         Gypsy Shaft Kit         P10341         P10341         P10341           4         Stripper Kit         R001432         R001432         R001432           5         Bearing Kit         P10343         P10343         P10343           6         Motor Kit         R001434         R001434            7         Motor Kit         R001435         R001435         R001450           8         Shock Absorber Kit         R001435         R001435         R001435           9         Spin Off Gear Kit         R001436          1           10         Spin Off Gear Kit         R001437         R001436            11         Locking Gear Kit         R001437         R001437            12         Locking Gear Kit           R001445           13         Gear Kit         R001438         R001438         R001438           14         Motor Plate         R001440         R001440         R001440           15         Fastener Kit         R001439         R001441            17         Switch Kit	ltem	Description	36' Class	41' Class	46' Class	Notes
3         Gypsy Shaft Kit         P10341         P10341         P10341           4         Stripper Kit         R001432         R001432         R001432           5         Bearing Kit         P10343         P10343         P10343           6         Motor Kit         R001434         R001434            7         Motor Kit         R001435         R001435         R001450           8         Shock Absorber Kit         R001435         R001435         R001435           9         Spin Off Gear Kit         R001436         R001436          1           10         Spin Off Gear Kit         R001437         R001436          1           11         Locking Gear Kit         R001437         R001437          1           11         Locking Gear Kit         R001437         R001437          1           12         Locking Gear Kit         R001438         R001438         R001438         1           13         Gear Kit         R001439         R001440         R001440         1           15         Fastener Kit         R001439         R001441            16         Switch Kit         R00144	1	Finger Kit	R001443	R001443	R001443	
4         Stripper Kit         R001432         R001432         R001432           5         Bearing Kit         P10343         P10343         P10343           6         Motor Kit         R001434         R001434            7         Motor Kit         R001435         R001436            8         Shock Absorber Kit         R001435         R001435         R001435           9         Spin Off Gear Kit         R001436         R001436          1           10         Spin Off Gear Kit         R001437         R001436          1           11         Locking Gear Kit         R001437         R001437          1           12         Locking Gear Kit         R001438         R001438         R001445           13         Gear Kit         R001438         R001438         R001440           14         Motor Plate         R001440         R001440         R001440           15         Fastener Kit         R001439         R001441            16         Switch Kit         R001441         R001441            17         Switch Kit         P1027600AJ         P1027600AJ <th>2</th> <th>Gypsy Kit</th> <th>R001431</th> <th>R001449</th> <th>R001449</th> <th></th>	2	Gypsy Kit	R001431	R001449	R001449	
5       Bearing Kit       P10343       P10343       P10343         6       Motor Kit       R001434       R001434          7       Motor Kit         R001450         8       Shock Absorber Kit       R001435       R001435       R001435         9       Spin Off Gear Kit       R001436       R001436        1         10       Spin Off Gear Kit       R001437       R001436        1         11       Locking Gear Kit         R001446       1         11       Locking Gear Kit         R001445       1         13       Gear Kit       R001437       R001438       R001445         13       Gear Kit       R001438       R001438       R001445         14       Motor Plate       R001440       R001440       R001440         15       Fastener Kit       R001439       R001441          16       Switch Kit       R001441       R001441          17       Switch Kit         R001447         18       Circuit Breaker, 25A       P1027600AJ       P1027600AJ <th>3</th> <th>Gypsy Shaft Kit</th> <th>P10341</th> <th>P10341</th> <th>P10341</th> <th></th>	3	Gypsy Shaft Kit	P10341	P10341	P10341	
6         Motor Kit         R001434         R001434            7         Motor Kit          R001435         R001450           8         Shock Absorber Kit         R001435         R001435         R001435           9         Spin Off Gear Kit         R001436         R001436          1           10         Spin Off Gear Kit         R001436         R001437         R001446         1           11         Locking Gear Kit         R001437         R001437          R001445           13         Gear Kit         R001438         R001438         R001438         R001443           14         Motor Plate         R001439         R001439         R001440         R001440           15         Fastener Kit         R001439         R001439         R001444           16         Switch Kit           R001447           18         Circuit Breaker, 25A         P1027600AJ         P1027600AJ	4	Stripper Kit	R001432	R001432	R001432	
7       Motor Kit        R001450         8       Shock Absorber Kit       R001435       R001435       R001435         9       Spin Off Gear Kit       R001436       R001436        1         10       Spin Off Gear Kit       R001437       R001437        1         11       Locking Gear Kit       R001437       R001437        1         12       Locking Gear Kit       R001437       R001437        R001445         13       Gear Kit       R001438       R001438       R001438       R001438         14       Motor Plate       R001440       R001440       R001440       R001440         15       Fastener Kit       R001439       R001439       R001444         16       Switch Kit       R001441       R001441          17       Switch Kit       P1027600AJ       P1027600AJ	5	Bearing Kit	P10343	P10343	P10343	
8         Shock Absorber Kit         R001435         R001435         R001435         R001435           9         Spin Off Gear Kit         R001436         R001436          1           10         Spin Off Gear Kit           R001446         1           11         Locking Gear Kit         R001437         R001437          R001445           12         Locking Gear Kit         R001437         R001437          R001445           13         Gear Kit         R001438         R001438         R001443           14         Motor Plate         R001440         R001440         R001440           15         Fastener Kit         R001439         R001439         R001444           16         Switch Kit         R001441         R001441            17         Switch Kit           R001447           18         Circuit Breaker, 25A         P1027600AJ         P1027600AJ	6	Motor Kit	R001434	R001434		
9         Spin Off Gear Kit         R001436         R001436          1           10         Spin Off Gear Kit           R001446         1           11         Locking Gear Kit         R001437         R001437          1           12         Locking Gear Kit         R001437         R001437          1           13         Gear Kit         R001438         R001438         R001445         1           14         Motor Plate         R001440         R001440         R001440         1           15         Fastener Kit         R001439         R001441          1           16         Switch Kit         R001441         R001441          1           17         Switch Kit           R001447            18         Circuit Breaker, 25A         P1027600AJ         P1027600AJ	7	Motor Kit			R001450	
10         Spin Off Gear Kit          R001446         1           11         Locking Gear Kit         R001437         R001437            12         Locking Gear Kit          R001445            13         Gear Kit         R001438         R001438         R001445           14         Motor Plate         R001440         R001440         R001440           15         Fastener Kit         R001439         R001439         R001444           16         Switch Kit         R001441         R001441            17         Switch Kit           R001447           18         Circuit Breaker, 25A         P1027600AJ         P1027600AJ	8	Shock Absorber Kit	R001435	R001435	R001435	
11Locking Gear KitR001437R00143712Locking Gear KitR00144513Gear KitR001438R001438R00143814Motor PlateR001440R001440R00144015Fastener KitR001439R001439R00144416Switch KitR001441R00144117Switch KitR00144718Circuit Breaker, 25AP1027600AJP1027600AJ	9	Spin Off Gear Kit	R001436	R001436		1
12       Locking Gear Kit         R001445         13       Gear Kit       R001438       R001438       R001438         14       Motor Plate       R001440       R001440       R001440         15       Fastener Kit       R001439       R001439       R001444         16       Switch Kit       R001441       R001441          17       Switch Kit         R001447         18       Circuit Breaker, 25A       P1027600AJ       P1027600AJ	10	Spin Off Gear Kit			R001446	1
13       Gear Kit       R001438       R001438       R001438         14       Motor Plate       R001440       R001440       R001440         15       Fastener Kit       R001439       R001439       R001444         16       Switch Kit       R001441       R001441          17       Switch Kit         R001447         18       Circuit Breaker, 25A       P1027600AJ       P1027600AJ	11	Locking Gear Kit	R001437	R001437		
14         Motor Plate         R001440         R001440         R001440           15         Fastener Kit         R001439         R001439         R001444           16         Switch Kit         R001441         R001441            17         Switch Kit          R001447         R001447           18         Circuit Breaker, 25A         P1027600AJ         P1027600AJ	12	Locking Gear Kit			R001445	
15         Fastener Kit         R001439         R001439         R001444           16         Switch Kit         R001441         R001441            17         Switch Kit           R001447           18         Circuit Breaker, 25A         P1027600AJ         P1027600AJ	13	Gear Kit	R001438	R001438	R001438	
16         Switch Kit         R001441         R001441            17         Switch Kit          R001447         R001447           18         Circuit Breaker, 25A         P1027600AJ         P1027600AJ	14	Motor Plate	R001440	R001440	R001440	
17         Switch Kit           R001447           18         Circuit Breaker, 25A         P1027600AJ         P1027600AJ	15	Fastener Kit	R001439	R001439	R001444	
18         Circuit Breaker, 25A         P1027600AJ         P1027600AJ	16	Switch Kit	R001441	R001441		
	17	Switch Kit			R001447	
19         Circuit Breaker, 60A          P7837300AJ	18	Circuit Breaker, 25A	P1027600AJ	P1027600AJ		
	19	Circuit Breaker, 60A			P7837300AJ	
20 Relay Module P1200000AJ	20	Relay Module			P1200000AJ	

Notes: 1. Spin Off Gear Kit (items 8 and 9) includes shock absorber kit (item 7).

The following rope and chain rodes are available from Powerwinch.

Part Number	Chain	Rope	Model Use
P10293	1/4 in. x 10 ft.	1/2 in. x 150 ft.	36'
P10294	1/4 in. x 15 ft.	1/2 in. x 200 ft.	36'
P10295	1/4 in. x 15 ft.	1/2 in. x 300 ft.	36'
P10296	1/4 in. x 20 ft.	1/2 in. x 300 ft.	36'
P10297	5/16 in x 15 ft.	5/8 in. x 200 ft.	41', 46'
P10298	5/16 in x 20 ft.	5/8 in. x 200 ft.	41', 46'
P10299	5/16 in x 20 ft.	5/8 in. x 250 ft.	41', 46'
P10300	5/16 in x 20 ft.	5/8 in. x 300 ft.	41', 46'

## WARRANTY

Carefree of Colorado (hereafter referred to as Carefree) warrants to the FIRST retail Purchaser that the Powerwinch Product described in this manual is free of defects in material and workmanship within the terms and conditions as set forth below. Carefree's obligation under this warranty is limited to the repair or replacement, at Carefree's option, of any defective component within the stated warranty period. THIS WARRANTY IS NOT TRANSFERABLE.

#### 1. DURATION

- a) 2 years on parts and labor.
- b) Carefree will pay the transportation charges for return shipment to the purchaser of any product received for legitimate warranty repair.

Warranty duration is not extended by the length of time the product is not in use or the time that the purchaser is deprived the use of the product. The duration of coverage is determined by the date of the original product purchase, not the date of repairs.

#### 2. WHAT IS COVERED UNDER THIS WARRANTY

Defects in the manufacturer's material and workmanship of product under normal use, and which occur within the duration of the warranty period.

#### 3. WHAT IS NOT COVERED UNDER THIS WARRANTY

- a) Improper installation and/or any consequent damage or failure that results from improper installation of the product.
- b) Normal wear.
- c) Conditions that are not related to the material or workmanship of the product: including any failure that results from an accident, wind, rain, or other acts of God.
- d) Purchaser's abuse, including but not limited to neglect; failure to operate, use or maintain the product in accordance with the instructions provided with the product.
- e) Any component not sold or manufactured by Carefree.
- f) Any failure that results from the use of another manufacturer's product with a Carefree product that is not specifically approved by Carefree.
- g) Any incidental, indirect, or consequential loss, damage or expense that may result from any defect, failure or malfunction of the product.
- The removal or alteration of any product component or device. In the event of such removal or alteration, this warranty is void.
- i) Any expense related to delivery or pick-up of product to/from the service dealer.

#### 4. RESPONSIBILITIES OF THE PURCHASER

IN ORDER FOR THE WARRANTY TO BE HONORED, THE PURCHASER MUST HAVE PROOF OF PURCHASE. FAILURE TO PROVIDE THE REQUIRED DOCUMENTATION MAY DELAY OR VOID ANY WARRANTY CLAIM.

- a) Retain dated proof of purchase for the product, and provide it as requested.
- b) Perform "Periodic Maintenance" as specified in Owners Manual.
- c) Use reasonable care in maintenance, operation, use and storage of the product in accordance with the instructions contained in the owner's manual.

THIS WARRANTY GIVES THE OWNER SPECIFIC LEGAL RIGHTS. THE LAWS OF CERTAIN JURISDICTIONS MAY GRANT THE OWNER ADDITIONAL RIGHTS AND PRIVILEGES. Except as set forth above; Carefree makes no warranty, whether statutory or otherwise, including without limitation, any warranty of merchantability or fitness for a particular purpose. Carefree shall have no liability except to repair, replace or adjust defective products and parts. Carefree specifically excludes any liability, whether in contract, tort or otherwise, for personal injury, property damage, economic or consequential losses. Carefree has not authorized any person or company to alter the terms of this warranty.

It is Carefree of Colorado's policy and practice to continuously improve the company's products and services. Therefore, Carefree reserves the right to make changes in design and components, without notice, whenever it is believed the quality of the product will be improved, but without incurring any obligation to incorporate such improvements in any product which has been shipped or in service.