

Powerwinch Model P55000 Folding Camper Winch

Operation And Adjustment of Folding Camper Winch

The Powerwinch Folding Camper Winch is used to raise and lower the tops of folding campers. When properly set, the winch will automatically stop operation when the camper top is fully extended and retracted.

Winch operation - Raising Camper Top

Warning: Camper must be on a hard level surface.

Danger: Keep all objects away from camper and camper top while winch is in operation.

Danger: Disconnect camper from towing vehicle before raising or lowering camper top.

Warning: Camper must be leveled before extending or retracting top.

Warning: All latches securing camper top to camper must be released before operating winch.

Danger: Do not extend camper top beyond visual height indicators on camper.

1. Make sure camper is on a hard, level surface.
2. Disconnect camper from trailering vehicle.
3. Release latches securing camper top to camper.
4. Push winch control switch in the up direction and hold until camper top is fully extended and winch motor shuts off.
5. Do not extend camper top beyond visual height indicators on camper.
6. Release switch when camper top is fully extended.

Winch Operation - Lowering Camper Top

Danger: Make sure camper is empty of people, animals and other objects.

Warning- Camper must be on a hard level surface.

Danger: Keep all objects away from camper and camper top while winch is in operation.

Danger: Disconnect camper from towing vehicle before raising or lowering camper top.

Warning: Camper must be leveled before retracting roof.

1. Make sure camper is on a hard, level surface.
2. Disconnect camper from trailering vehicle.
3. Make sure camper is empty of all people, animals or other objects.
4. Push winch control switch in the down direction and hold until camper top is fully retracted and the winch motor turns off.
5. Do not retract camper top beyond visual indicators on camper.
6. Secure camper top to camper with latches provided on camper.

Folding Camper Winch Adjustment

As the cable in the camper top is used it will stretch. Cable stretching may cause the winch to not fully extend or retract the top. The winch can be manually adjusted to account for the cable stretch. Refer to Figure 1 and follow the instructions below to adjust the winch back into proper operation.

Setting the lower winch limit (Refer to Figure 1)

Tools needed: Two adjustable wrenches.

Danger: Disconnect power to winch before performing any maintenance or adjustment to the winch.

Danger: A minimum of three wraps of cable must be on the cable shaft to safely support the load of the camper top.

1. Lower camper top to lowest limit allowed by camper visual indicator.
2. Make sure that a minimum of three wraps of cable are on the cable shaft
3. Disconnect power to winch.
4. Remove the switch disk locking screw.
5. The switch disk can be spun on it shaft. Spin the disk until it comes in contact with the lower limit switch.
6. Replace the switch disk locking screw making sure the small notch in the bottom of the disk is riding on the switch disk locking screw.
7. Reconnect power to the winch.
8. Engage the control switch in the down

position. If the motor operates, the lowest limit has not been reached. Repeat steps 2 through 8 until the winch motor does not operate when the control switch is engaged. **Do not allow the switch disk to touch the bearing in the winch frame. Damage to the winch can occur if the switch disk touches the bearing in the winch frame.**

Note: Further fine adjustment can be made by turning the lower adjustment screw in and out. Follow the instructions below (Refer to Figure 1 and 2):

Loosen the nut securing the screw to the plate to allow the adjustment screw to move. Turn the adjustment screw in and out as desired. Secure the lower adjustment screw by tightening the nut back onto the switch plate.

Setting the upper winch limit (refer to Figure 1 and 3)

Warning: Camper must be on a hard level surface.

Danger: Keep all objects away from camper and camper top while winch is in operation.

Danger: Camper should be disconnected from trailering vehicle.

Warning: Camper must be level before extending or retracting roof.

Warning: All latches securing camper top to camper must be released before operating winch.

Danger: Do not extend camper top beyond visual height indicators on camper.

9. After the lower limit has been set (steps 1-8), the upper limit can be set.

10. Engage the control switch in the up position and raise the camper roof until the winch motor stops. Note location of the camper top. **Do not exceed height specified by the visual height indicators on camper.**

11. Lower camper top by 1/2'.

12. Disconnect power to winch

13. Loosen locking nut on upper adjustment screw (see Figure 3).

14. Turn upper adjustment screw into the disk plate by two full turns. Tighten locking nut.

15. Reconnect power to winch.

16. Engage power switch in the up position and raise roof. Keep switch engaged until winch motor stops or until visual height indicator shows top

fully extended. **Do not exceed height specified by visual indicators.**

17. If winch motor stops when visual height indicator on camper shows full extension, the winch is fully adjusted. If the winch motor stops short of the visual indicator showing full extension, repeat steps 11-16.

18. If the winch motor does not stop before exceeding the visual height indicator on the camper, repeat steps 11-16 and turn the adjustment screw out of the switch disk.

Manual Operation

Incase of a power failure, the winch can be raised and lowered manually. Refer to Figure 4.

1. Locate the manual drive bolt. It is located on the end of the winch motor shaft.

2. Place a 7/16" socket over the bolt head.

3. Turn the bolt clockwise to raise the top and counter clockwise to lower the top.

Do not allow the switch disk to touch the bearing in the winch frame. Damage to the winch can occur if the switch disk touches the bearing in the winch frame.

Winch Maintenance

1. Frequently inspect cable. Look for kinks, cuts, or breaks in the cable. Immediately replace cable if any kinks, cuts or breaks are found in the cable.

2. Lubricate the cable once per year with 30 weight motor oil.

3. Lubricate the worm gear and worm every six months. Use only MPC PL10 Power Lift Grease™.

4. After lubricating the worm and worm gear there may be some smoking of the gears until the excess grease works into the gear train.

5. Check all electrical wiring for cuts or breaks every six months. Replace any broken or cut wires.

6. Check all electrical connections for corrosion every six months. Clean any corrosion that is found on electrical connections.

Winch Wiring

A wiring diagram is shown in Figure 5. The switch terminals are labeled as well as all switch connections. If winch wiring is disconnected, make sure to follow this diagram to rewire winch correctly.

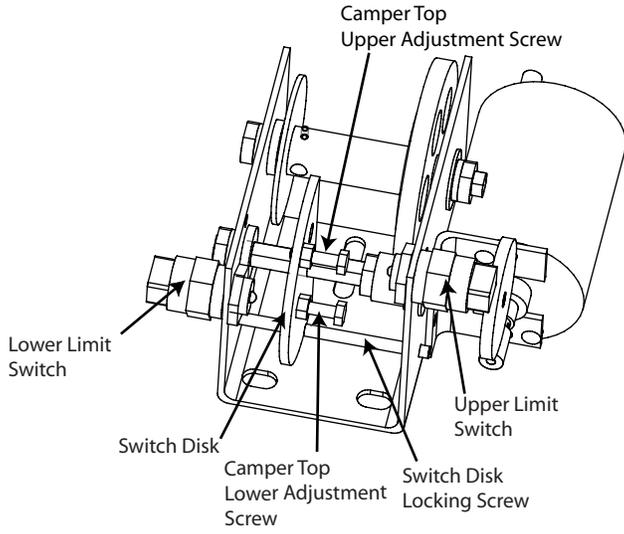


FIGURE 1.

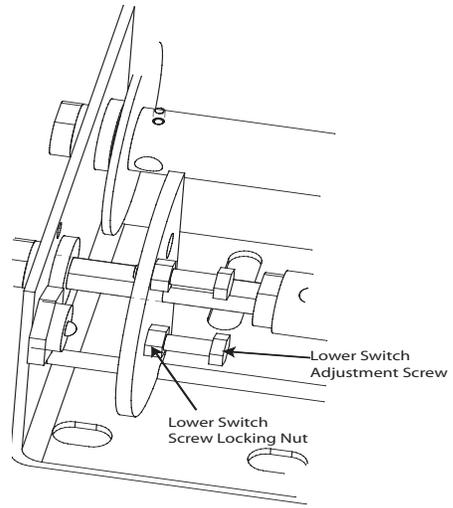


FIGURE 2.

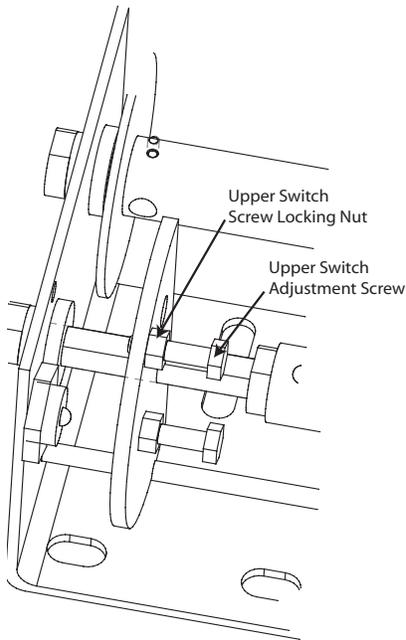


FIGURE 3.

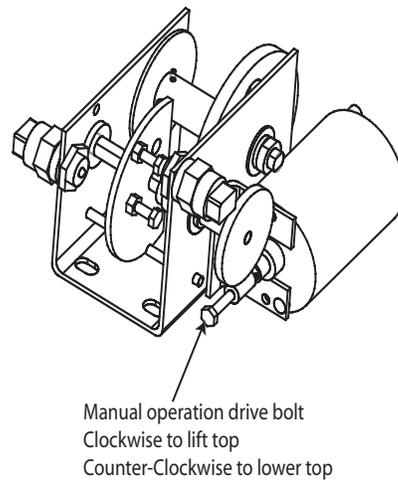
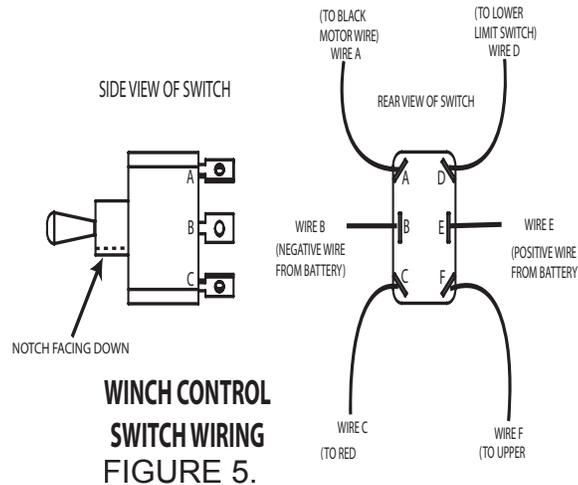


FIGURE 4.



Folding Camper Winch Troubleshooting

Problem	Solution
Winch Does Not Operate	<ol style="list-style-type: none"> 1. Check wiring. Make sure all wiring connections are secure. 2. Check battery. Make sure battery is fully charged. 3. Check circuit breaker. Make sure all connections to circuit breaker are secure.
Winch Does Not Operate In Proper Direction	<ol style="list-style-type: none"> 1. Compare winch wiring to wiring diagram (Figure 5) and make any corrections. 2. Make sure positive lead (wire E) is connected to the positive terminal on the battery.
Camper Top Over or Under Extends	<ol style="list-style-type: none"> 1. Adjust winch by following instructions for adjusting upper and lower limit switches (Steps 1-19)

Limited Warranty

A. This Limited Warranty is given by the Powerwinch Division of the Scott Fetzer Company (the "Company") to the original purchaser (the "Purchaser") of a Powerwinch Product (the "Product") specified in this manual. This Limited Warranty is not transferable to any other party.

B. Responsibilities of the Company under this Limited Warranty:

1. Repair or replace (at the discretion of the Company) any part or parts of the Product found by the Company to be defective within a three (3) years period from the date of purchase.
2. The Company will pay the transportation charge for shipment back to the Purchaser of any Product received for legitimate Warranty repair.

C. Responsibilities of the Purchaser under this Limited Warranty:

1. Complete (fully and accurately) and return to the Company, the Warranty card included in the box. Otherwise, Purchaser will have to show dated proof of purchase to qualify for service under the provisions of the Limited Warranty.
2. Promptly notify the Seller or the Company of any claim hereunder.
3. At the Option of the Company, return the Product to the Company for inspection. Authorization must be given prior to any Product return. Call the Company at (513)-539-7215 or write the Company at 301 Lawton Ave., Monroe, OH 45050 for authorization and complete instructions on how to return the Product directly to the Company.
4. Use reasonable care in maintenance, operation, use and storage of the Product in accordance with the instructions contained in the Owner's Manual.
5. Have Warranty work performed by a dealer or representative approved by the Company.
6. Except as noted in B.2., transportation charges are the responsibility of the Purchaser.

D. This Limited Warranty covers:

1. Defects in workmanship or materials.
2. Any part or parts of the Product sold or manufactured by the Company.

E. This Limited Warranty does not cover:

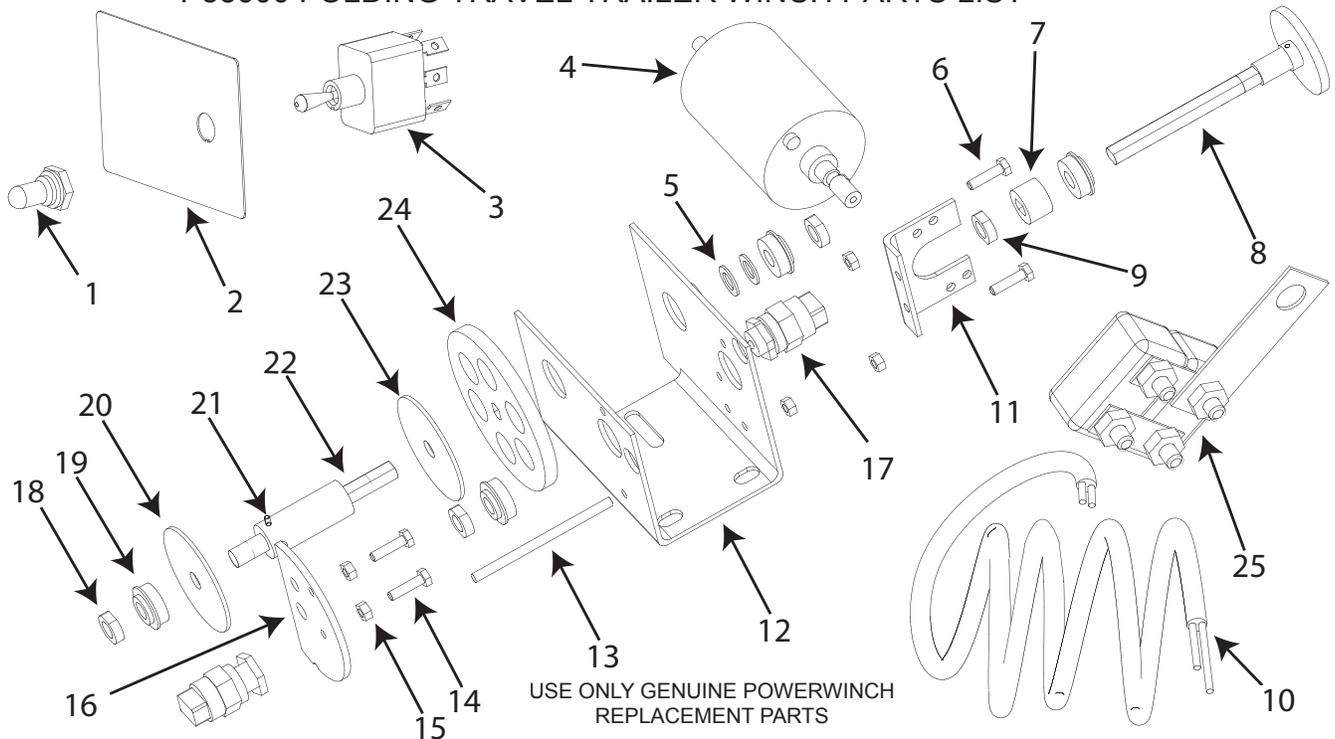
1. Any failure that results from improper installation of the Product.
2. Any failure that results from accident, Purchaser's abuse, neglect, modification, improper maintenance, or failure to operate and use the Product in accordance with the instructions provided in the Owner's Manual supplied with the Product.

F. There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one (1) year from date of purchase. This is the exclusive remedy and any liability for any and all incidental or consequential damages or expenses whatsoever is excluded.

Some states do not allow limitations on how long an implied warranty lasts, or do not allow exclusion or limitation of incidental or consequential damages, the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Powerwinch®

FOR PARTS AND SERVICE CALL 800-793-4793
 P55000 FOLDING TRAVEL TRAILER WINCH PARTS LIST



ITEM #	QTY	POWERWINCH PART #	DESCRIPTION
1	1	P30032	RUBBER BOOT, SWITCH
2	1	P30019	SWITCH PLATE
3	1	P30023	CONTROL SWITCH W/SCREW TERMINALS
4	1	P30031	MOTOR WITH WORM
5	2	P71822	WASHER
6	2	* AVAILABLE IN KIT P30027	1/4-20 X .50"
7	1	P71704	GEAR, 12 TOOTH
8	1	P30030	WORM GEAR WITH SHAFT & DOWEL PIN
9	2	* AVAILABLE IN KIT P30027	HEX NUT, 1/2-28
10	1	P30029	WIRING HARNESS
11	1	P30002	MOTOR MOUNTING BRACKET
12	1	P30000	FRAME
13	1	* AVAILABLE IN KIT P30027	1/4-20 X 4.25" HHCS
14	2	* AVAILABLE IN KIT P30027	1/4-20 X 1" HHCS
15	4	* AVAILABLE IN KIT P30027	HEX NUT 1/4-20
16	1	P30003	SWITCH DISK
17	2	P30028	LIMIT SWITCH WITH HEX NUT
18	2	* AVAILABLE IN KIT P30027	LOCKNUT
19	4	P71607	BEARING
20	1	P71956	SPLIT FLANGE
21	1	* AVAILABLE IN KIT P30027	SET SCREW
22	1	P30006	CABLE SHAFT
23	1	P71955	SOLID FLANGE
24	1	P71703	GEAR, 57 TOOTH
25	1	P30033	CIRCUIT BREAKER 50-AMP
*	1	P30027	FASTENER KIT (NOT SHOWN)