CONVERSION FROM MANUAL PULL STRAP TO POWER AWNING

TI-164

AWNINGS

White Part #	Black Part #	Description
323948	323949	Conversion from Manual Pull Strap to Power Awning Kit
NOTE: Parts below are available in kits referenced above or individually as needed.		

White Part #	Black Part #	Description	Qty.
266146	273478	Drive Head Assembly	1
266147	273479	Idler Head Assembly	1
273007		Power Feed Wires	1
280570		Wire Harness	1
2661301	2661302	End Cap	2
299630		#8 - 32 X ½" Wax Screws	2
280564	280566	Switch	1
280565	280567	Switch Plate	1
285079	285077	Bezel Spacer	2
275080353	2750701888	Wire Cover ; 22" - Narrow	2
275070157	2750701692	Wire Cover; 9.75" - Narrow	2
266139429	2661391964	Wire Cover; 26.75" - Wide	2
266139337	2661391872	Wire Cover; 21" - Wide	2
266138481	2661382017	Wire Cover; 30" - Narrow	2

Prior To Conversion

Tools Required

- Electric screw gun
- #2 square screwdriver bit
- #3 Phillips bit
- Zip ties
- (2) Cotter pins (.09" x 2 5⁄16" OAL Zinc Plated Hairpin or equivalent)

Resources Required

- Two People

Procedure

1. Extend awning out approximately 1' and insert cotter pins through both end caps into the shafts on the head assemblies (Fig. 1).

NOTE: If the awning is 6' in length it will only need one cotter pin on the drive side.

Fig. 1

2. Zip tie both support arms around the outer arm and top pin of the mounted arm (Fig. 2).

⚠CAUTION

The awning arms will be under pressure from the gas strut and can kick out from the unit if not properly secured, causing personal injury or property damage.

3. While one person holds the roll tube, remove the bolt holding the drive head assembly into the support arm and remove the drive head assembly from the support arm (Fig. 4).
4. Remove the drive head cotter pin being sure to hold onto the drive head assembly and the roll tube as there will be tension that needs to be released.

⚠WARNING

Failure to maintain control of the roll tube or the drive head assembly may result in serious injury or property damage.

5. Slowly rotate the drive head assembly to remove tension.
6. Remove the three (3) screws holding the drive head end cap onto the roll tube (Fig. 3). Then pull drive head assembly off (Fig. 5).

NOTE: Awnings longer than 6' will also have tension that needs to be released in the idler head assembly prior to continuing the procedure. To do so, remove the idler head cotter pin and slowly rotate the roll tube to release tension in the idler head's spring.

Fig. 2

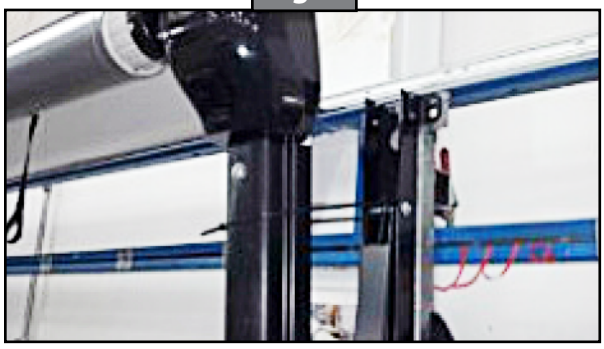


Fig. 3

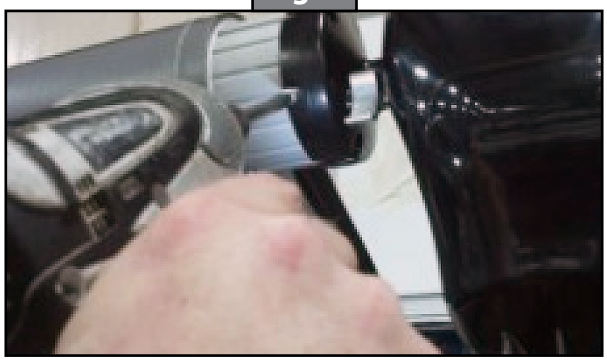
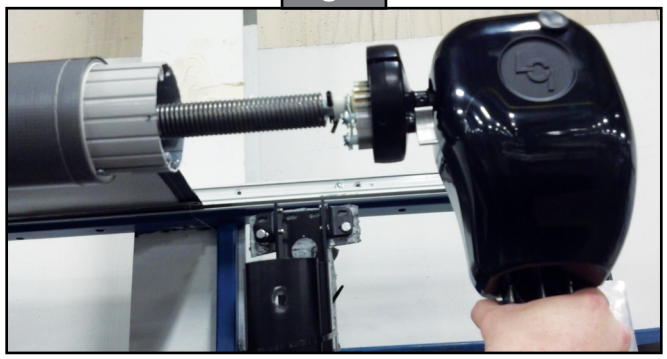


Fig. 4

Fig. 5



7. Install new end cap to the roll tube using the three square head screws that were removed in Step 3 above. Confirm cap is fully seated on the end of the roll tube. If the screws/screw holes have been stripped consider using #10 screws to ensure a secure fit.
8. Plug the power cord into the motor by matching the black wire from power cord to black wire at the motor. Next take the white wire from the power cord and plug it into the red wire on the motor. Make sure to then tuck the wires down into the mount assembly to assure wires won't be pinched during install (Figs. 6 & 7).
9. Insert the shaft from the motor head into the end cap and secure with the provided #8 wax screw (Fig. 8).
10. Install the head mount into the arm and secure with the bolt removed in Step 3 above.
11. Repeat Steps 3 through 6 and 8-9 for the idler head side of the awning. Cut zip ties from top of arm. Using the cordless screw gun battery (or other low voltage battery source) run the awning out by putting the black wire from power cord to the positive side of battery and the white wire on negative.

Fig. 6

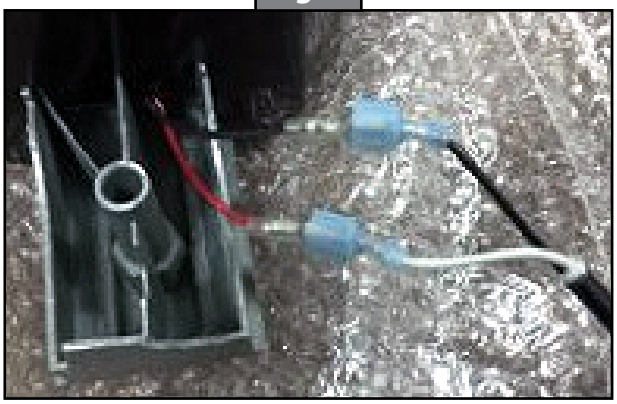


Fig. 7

Fig. 8

12. Starting at the motor, run the wire approximately halfway down the outer arm (Fig. 9), then up the inner arm (Fig. 10) to the wall mount (holes for 'top wire' and 'bottom wire' options are provided in the wall mount extrusion) (Fig. 11). Install plastic wire covers into the outer arm (1 section), inner arm (2 sections), and wall mount (2 sections) extrusions to secure/protect the power supply wire (Figs. 12-14). Make sure wire is placed on the outside of the pin that joins the steel tension arm to the wall mount (Fig. 16) to prevent damage to the wire.

Fig. 9

Fig. 10

13. Hook power cord to the coach supplied power.
14. Seal all wall penetrations to protect against water intrusion (Fig. 13).

Fig. 11

Fig. 12

Fig. 13

Fig. 14

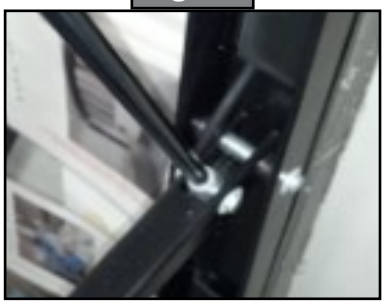


Fig. 15

Wiring Diagram

NOTE: Solera® Awnings are equipped with a 6A Auto Reset breaker supplied by Lippert.

NOTE: The motor comes stock with internal thermal protection. Lippert recommends that the awning be on a 15A circuit.

NOTE: All wire to be 14 AWG or larger as necessary to provide 12V minimum at all times at the connection to the Lippert-supplied power cable.

Fig. 16