



Universal Awning Hardware Converting to 12V Power Awning

(For Aftermarket Applications)

Table of Contents

Introduction	. 2
System Information	. 2
Safety Information	. 2
Parts List	. 3
Preparation	. 3
Resources Required	. 3
Conversion	. 3
Operation	10
Extending the Awning	10
Retracting the Awning	11
Troubleshooting Chart	11
Troubleshooting	13
Manual Override	13
Adjusting Pitch Arm Fasteners	13
Maintenance	14
Fabric Care	14
Notes	14



Introduction

System Information

The Solera® 12V Power Awning features an internal motor to steadily operate the awning. Additionally, the pitch arm assembly is adjustable and provides added stability.

NOTE: The Lippert Solera Universal Hardware kit for a power to power conversion will ONLY fit Dometic and Carefree awnings.

Additional information about this product can be obtained from lci1.com/support or by downloading the free myLCI app. Replacement component parts can be ordered from store.lci1.com/ or by using the myLCI app. The myLCI app is available on iTunes® for iPhone® and iPad® and also on Google Play[™] for Android[™] users.

İTunes®, iPhone® and iPad® are registered trademarks of Apple Inc. Google Play[™] and Android[™] are trademarks of Google Inc.

For information on the assembly or individual components of this product, scan this QR code or go to: https://support.lci1.com/solerauniversal-awning



Safety Information

Warning, Caution and Danger symbols indicate that an installation procedure has a safety risk involved and may cause death, serious injury or property damage if not performed safely and within the parameters set forth in this manual.

Power awnings that contain springs use tension for ease of operation and can be harmful to the end user should the stored tension come unbound. Cotter pins are installed and **MUST** be used to contain the tension when the system is being serviced.

AWARNING

FAILURE TO USE THE INSTALLED SAFETY FEATURES MAY RESULTIN DEATH, SERIOUS INJURY, DAMAGE TO THE UNIT AND/OR VOIDING A WARRANTY.

A CAUTION

MOVING PARTS CAN PINCH, CRUSH OR CUT. KEEP **CLEAR AND USE CAUTION.**

Universal Awning Hardware

Converting to 12V Power Awning

(For Aftermarket Application)

AWARNING

IMPACT OR CRUSH HAZARD - PITCH MUST BE SET TO LOWER ONE SIDE OF THE AWNING AFTER THE AWNING IS EXTENDED, FAILURE TO SET PITCH COULD LEAD TO WATER, SNOW OR DEBRIS ACCUMULATING ON THE AWNING FABRIC. WHICH COULD CAUSE THE AWNING TO MOVE UNPREDICTABLY, BECOME UNSTABLE, AND BEND OR COLLAPSE CAUSING DEATH OR PERSONAL INJURY OR PROPERTY DAMAGE.

AWARNING

IMPACT OR CRUSH HAZARD - DO NOT ADJUST PITCH MANUALLY IF THERE IS ALREADY POOLING WATER, SNOW OR DEBRIS ON THE AWNING FABRIC. KEEP THE AWNING ARM AREA CLEAR OF PEOPLE AND OBJECTS WHEN IN OPERATION, FAILURE TO HEED THESE WARNINGS COULD CAUSE SEVERE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

A CAUTION

THE AWNING MUST BE RETRACTED COMPLETELY **DURING INCIDENTS OF HIGH WIND, HEAVY RAIN** AND/OR DURING ANY EXTENDED TIME AWAY FROM THE UNIT. FAILURE TO RETRACT THE AWNING IN THOSE INSTANCES COULD CAUSE EXTENSIVE DAMAGE TO THE AWNING AND UNIT.



Parts List



Universal Kit#	Description
434723	Solera Power 12V 69" Kit, Black
<u>434724</u>	Solera Power 12V 69" Kit, White
2023052355	Solera Power 12V 63" Kit, Black
2023052357	Solera Power 12V 63" Kit, White

Solera 12V Tall Arm (69" or 63") Flat Adjustable Pitch Arms require:

- 69" or 63" of unobstructed area from the awning rail straight down based on applicable arm length.
- · Minimum clearance of 4" between the awning rail and the top of the entry door.

Preparation

Resources Required

- · Additional Qualified **Assistants**
- Cordless or Electric Drill or Wire Stripper Screw Gun
- Appropriate Drive and Drill **Bits**
- Socket Wrench
- 7/16" Socket
- Rivet Gun
- Locking Pliers

- Chop Saw
- · Cordless Battery
- Wire Crimper
- Ladder
- Silicone Sealant
- Non-permanent Method of Marking

3

Universal Awning Hardware

Converting to 12V Power Awning

(For Aftermarket Application)

Conversion

Dometic Power Awning to Solera® 12V Power Awning

NOTE: Click the following link to see the video on this conversion procedure: https://youtu.be/n50vm-lelAg

NOTE: All screws supporting the awning assembly MUST have a backer within the structure of the wall of the unit. Refer to the unit manufacturer for proper location.

NOTE: This manual will refer to the "drive side" and "idler side" throughout for various instructions. The "drive side" is the right hand side of the awning when facing the awning from the exterior of the unit. The "idler side" is the left hand side of the awning when facing the awning from the exterior of the unit.

- 1. Using a non-permanent method of marking, draw a vertical line along the inside of both the drive and idler side support arm assemblies. This will act as a guideline for re-installation.
- 2. With the awning fully extended, remove the 2 screws securing the awning fabric to the awning rail.
- 3. If equipped, remove drip cap from the end of the awning rail on the end of the unit that the awning assembly will be removed from.
- 4. If equipped, remove the wire covers from the mount arms.
- 5. Remove all fasteners from the lower and middle sections of both the drive and idler mount arms.

NOTE: Do **NOT** remove the upper fasteners of the mount arms at this time.

6. With the power disconnected, pull the wiring out of the sidewall and disconnect all leads from the unit wires.

NOTE: Be sure to check both drive and idler arms for wiring to be disconnected.

7. Connect the motor leads to a cordless battery and retract the awning so that approximately 12" of awning fabric remains extended.



8. For both the drive and idler side support arm assemblies, secure the outer arm to the mount arm using the nylon ties provided.

AWARNING

IF NOT PROPERLY SECURED, THE SUPPORT ARMS CAN KICK OUT DUE TO PRESSURE FROM THE GAS STRUT, WHICH MAY RESULT IN SERIOUS INJURY OR PROPERTY DAMAGE.

- **9.** With additional assistants holding the support arm assemblies, remove the upper fasteners from both the drive and idler mount arms. Pull the nylon ties tight.
- **10.** Carefully slide the entire awning assembly along the awning rail until the polycord clears the channel.
- **11.** Place the awning assembly on a clean, level surface that is free of any debris that might scratch or damage the roll tube or fabric.

NOTE: Contact Dometic before installation to verify the version of awning to be converted. Newer versions may not need spring pins inserted into the tube to later release tension.

- **12.** On the idler support arm assembly, insert a cotter pin into the end cap to lock the spring head in place.
- **13.** On the drive support arm assembly, drill out the rivets securing the end cap to the roll tube.
- **14.** Completely detach the support arm assembly and internal motor from the roll tube.

AWARNING

THESPRINGISUNDEREXTREMETENSION.IMPROPER HANDLING COULD CAUSE DEATH, SERIOUS INJURY OR PROPERTY DAMAGE.

- **15.** Using a $\frac{7}{16}$ " socket, remove the bolt securing the idler head to the support arm assembly and detach the head from the support arm assembly.
- **16.** With a firm grip on the roll tube and the idler head firmly secured with locking pliers, remove the cotter pin from the end cap.

Universal Awning Hardware

Converting to 12V Power Awning

(For Aftermarket Application)

NOTE: Padding the locking pliers will prevent the scratching of components.

- **17.** Carefully release the tension by slowly unwinding the spring head.
- 18. Drill out the rivets securing the end cap to the roll tube.
- **19.** Completely detach the idler end cap and spring assembly from the roll tube.
- **20.** Unroll the fabric. Still working on the idler side of the roll tube, slide the fabric towards the drive side of the roll tube so it is well out of way.
- **21.** Using the tape provided, align one edge of the tape with the edge of the roll tube and wrap the tape around the roll tube.

NOTE: This provides the guideline for cutting the roll tube. Click the link to see the video on this procedure: https://youtu.be/n50vm-lelAg.

22. Using a chop saw, cut the roll tube along the edge of the tape applied in the previous step.

NOTE: Sharp edges and/or burrs MUST be filed down.

23. Secure both drive and idler Solera end caps to the roll tube with the provided rivets.

NOTE: It may be necessary to drill out the previous holes in order to accommodate the larger-sized rivets.

- **24.** Center the fabric on the roll tube and secure each end by installing the provided ½" pan head screw through the polycord into the roll tube.
- 25. Re-roll the fabric after it is centered and cut off the extra polycord.
- **26.** Insert the shaft of the Solera idler head assembly into the end cap. Align the holes and secure with the provided #8 $32 \times \frac{1}{2}$ " wax screw.
- **27.** Insert the shaft of the Solera drive head assembly into the end cap. Align the holes and secure with the provided #8 32 $\times \frac{1}{2}$ wax screw.

NOTE: Keep the head of the wax screw ½" from fastened to avoid compromising the structural integrity of the wax screw.



Universal Awning Hardware

Converting to 12V Power Awning

(For Aftermarket Application)

- **28.** With additional assistants holding the support arm assemblies, insert the polycord into the awning rail channel and slide the Solera awning assembly along the awning rail.
- **29.** Place the drive side support arm assembly directly under the awning rail so the top of the mount arm is touching the bottom of the rail.

NOTE: Support arm should be installed so that it covers holes of the original awning, but no lower than 3" below the awning rail. Seal old holes with sealant.

30. Align the drive side support arm assembly to cover the holes on the unit at the bottom of the arm. Make sure the assembly is parallel with the corresponding guideline marked in Step 1.

NOTE: There may still be a hole showing at the top of the arm due to the width of the angle brackets.

31. Secure the upper section of the mount arm to the unit with 2 of the provided $\#14 \times 1 \frac{1}{4}$ " screws.

NOTE: Silicone sealant **MUST** be used on all screws and holes to prevent water from infiltrating the unit.

- **32.** Repeat Steps 29-31 for the idler side support arm assembly.
- **33.** Cut the nylon ties containing the support arm assemblies.
- **34.** At the drive side support arm assembly, connect the motor leads to a cordless battery and fully extend the awning.
- **35.** Remove the wire covers to expose the lower and middle sections of the mount arm.

NOTE: If the power leads exiting the unit do not align with the hole in the wall mount arm, a new hole must be drilled out on the wall mount arm **PRIOR** to securing the lower and middle sections of the arm so as not to damage the unit.

36. Secure the lower and middle sections of the drive side mount arm to the unit with the provided #14 x 1 $\frac{1}{4}$ " screws or rivets. Make sure the arms are square on the wall of the unit. (There will be 2 screws in the lower holes and 2 screws in the middle holes.)

NOTE: For units with fiberglass sidewalls, Lippert requires the use of rivets for securing the lower and middle sections of the mount arm.

37. Repeat Steps 35-36 for the idler side mount arm.

NOTE: Before proceeding, see the **Wiring** section to complete installation.

- **38.** Extend and retract the awning several times to ensure that the fabric is square on the roll tube. Secure the fabric in the awning rail no more than 1" inside the edge of the fabric on both ends using a #6 x $\frac{1}{2}$ " hex head screw. Install the screw down through the awning rail into the fabric and the polycord. Optionally, if polycord extends beyond fabric by more than $\frac{1}{4}$ ", the #6 x $\frac{1}{2}$ " hex head screw may be installed $\frac{1}{4}$ " away from the outside edge of the fabric through the polycord and awning rail only, avoiding the fabric.
- **39.** If previously equipped, reinstall drip caps.

Carefree Power Awning to Solera® 12V Power Awning

NOTE: All screws supporting the awning assembly **MUST** have a backer within the structure of the wall of the unit. Refer to the unit manufacturer for proper location.

NOTE: This manual will refer to the "drive side" and "idler side" throughout for various instructions. The "drive side" is the right hand side of the awning when facing the awning from the exterior of the unit. The "idler side" is the left hand side of the awning when facing the awning from the exterior of the unit.



Fig.1

5

1. Using a non-permanent method of marking, draw a vertical line along the inside of both the drive side and



Universal Awning Hardware

Converting to 12V Power Awning

(For Aftermarket Application)

idler side support arm assemblies. This will act as a guideline for re-installation (Fig.1).

2. With the awning fully extended, remove the wire covers, if equipped, from the mount arms.



Fig.2

3. Remove all fasteners from the lower and middle sections of both the drive side and idler side mount arms (**Fig.2**).

NOTE: Do **NOT** remove the upper fasteners of the mount arms at this time.

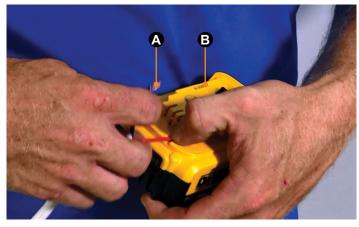


Fig.3

4. Pull the wiring out of the sidewall and disconnect all leads from the unit wires.

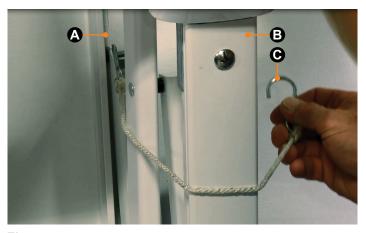


Fig.4

AWARNING

IF NOT PROPERLY SECURED, THE SUPPORT ARMS CAN KICK OUT DUE TO PRESSURE FROM THE GAS STRUT, WHICH MAY RESULT IN SERIOUS INJURY OR PROPERTY DAMAGE.

5. Connect motor leads **(Fig.3A)** to a cordless battery **(Fig.3B)** and retract the awning so that approximately 12" of awning fabric remains extended.

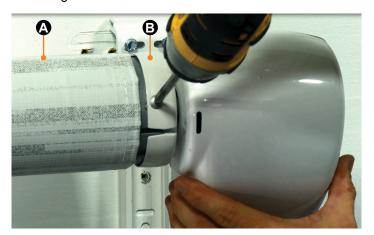


Fig.5



Converting to 12V Power Awning

Hardware

(For Aftermarket Application)

Universal Awning

6. For both the drive side and idler side support arm assemblies, secure the outer arm (Fig.4B) to the mount arm (Fig.4A) using the nylon ties provided (Fig.4C).



Fig.6

- 7. On the drive side support arm assembly and with an additional assistant holding the roll tube (Fig.5A), remove the screws securing the end cap (Fig.5B) to the roll tube.
- 8. With additional assistants holding the support arm assembly, remove the upper fasteners from the drive side mount arm (Fig.6). Pull the nylon ties tight.

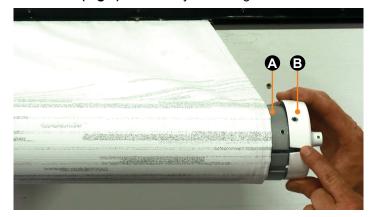


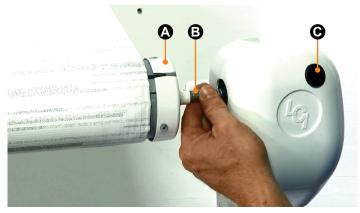
Fig.7

lippert.com

- 9. Detach the drive side support arm assembly from the unit and roll tube and set aside.
- 10. Place the Solera end cap (Fig.7B) on the end of the roll tube (Fig.7A), making sure it is properly seated and the roll tube channel is aligned with the channel on the end cap.

11. Secure the Solera end cap to the roll tube with the provided rivets.

NOTE: It may be necessary to drill out the previous holes in order to accommodate the larger-sized rivets.



12. Insert the Solera drive head assembly shaft (Fig.8B) into the end cap (Fig.8A).

NOTE: When determining the drive head assembly from the idler head assembly, the drive head assembly will have an override plug (Fig.8C), whereas the idler head assembly will not.



Fig.9

13. Align the holes and secure with the provided #8 - 32 x $\frac{1}{2}$ " wax screw (Fig.9).

NOTE: Keep the head of the wax screw 1/8" from fastened to avoid compromising the structural integrity of the wax screw.



14. Place the drive side support arm assembly directly under the awning rail so the top of the mount arm is touching the bottom of the rail.

NOTE: Support arm should be installed so that it covers holes of the original awning, but no lower than 3" below the awning rail. Seal old holes with sealant.



Fig.10

- 15. Align the drive side support arm assembly with the corresponding guideline marked in Step 1, being sure all previous holes are covered.
- **16.** Secure the upper section of the drive side mount arm to the unit with 2 of the provided #14 x 1 $\frac{1}{4}$ " screws (Fig.10).

NOTE: Silicone sealant MUST be used on all screws and holes to prevent water from infiltrating the unit.

NOTE: Do NOT install fasteners to the lower and middle sections of the wall mount arm at this time.

17. Repeat Steps 7-16 for the idler side support arm assembly.

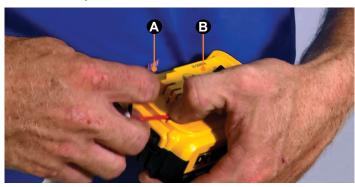


Fig.11

Universal Awning Hardware

Converting to 12V Power Awning

(For Aftermarket Application)

- 18. Cut the nylon ties containing the support arm assemblies.
- **19.** At the drive side support arm assembly, connect the motor leads (Fig.11A) to a cordless battery (Fig.11B) and fully extend the awning.
- 20. Remove the wire covers to expose the lower and middle sections of the mount arm.

NOTE: If the power leads exiting the unit do not align with the hole in the wall mount arm, a new hole must be drilled out on the wall mount arm PRIOR to securing the lower and middle sections of the arm so as not to damage the unit.

21. Secure the lower (Fig.12) and middle (Fig.13) sections of the drive side mount arm to the unit using the provided #14 x 1 1/4" screws or rivets.(There will be 2 screws in the lower holes and 2 in the middle holes).



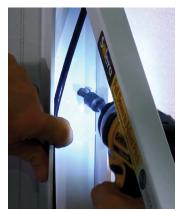


Fig.12

8

Fig.13

NOTE: Silicone sealant MUST be used on all screws and holes to prevent water from infiltrating the unit.

NOTE: For units with fiberglass sidewalls, Lippert requires the use of rivets for securing the lower and middle sections of the mount arm.

22. Repeat Steps 20-21 for the idler side mount arm.

NOTE: See "Wiring" Section to complete installation.

23. Replace wire covers after wiring is complete.



Universal Awning Hardware

Converting to 12V Power Awning

(For Aftermarket Application)

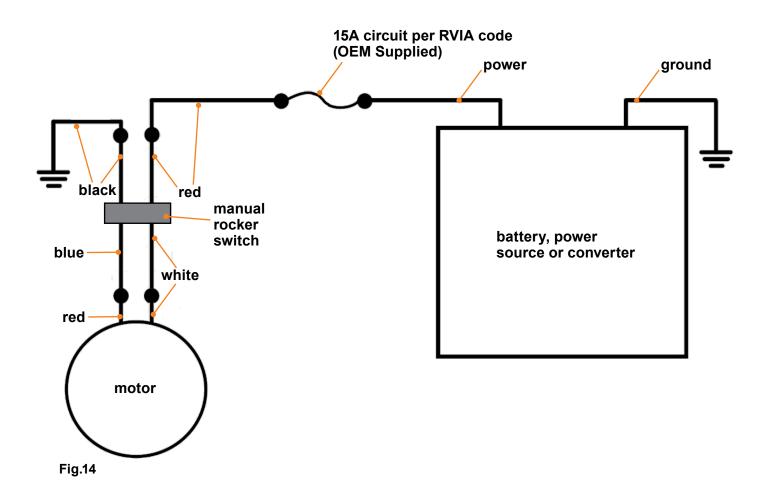
Wiring

- **1.** Pull the wires from the unit through the support arm assembly. These wires may be located at the bottom or the top of the support arm assembly
- **2.** Connect wiring from the unit to the switch and the awning drive head per the wiring diagram below (**Fig.14**).

NOTE: Check the switch. If the awning is running in reverse of what the switch indicates, reverse the wires.

NOTE: Solera Power Awning motors come stock with an internal 6A auto reset breaker. If this breaker trips, it will take approximately 30 seconds to reset. Lippert recommends that the awning be wired into 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 LCI-supplied power cable.





Operation

Extending the Awning

AWARNING

IMPACT OR CRUSH HAZARD - PITCH MUST BE SET TO LOWER ONE SIDE OF THE AWNING AFTER THE AWNING IS EXTENDED. FAILURE TO SET PITCH COULD LEAD TO WATER, SNOW OR DEBRIS ACCUMULATING ON THE AWNING FABRIC, WHICH COULD CAUSE THE AWNING TO MOVE UNPREDICTABLY, BECOME UNSTABLE, AND BEND OR COLLAPSE CAUSING DEATH OR PERSONAL INJURY OR PROPERTY DAMAGE.

AWARNING

IMPACT OR CRUSH HAZARD - DO NOT ADJUST PITCH MANUALLY IF THERE IS ALREADY POOLING WATER, SNOW OR DEBRIS ON THE AWNING FABRIC. KEEP THE AWNING ARM AREA CLEAR OF PEOPLE AND OBJECTS WHEN IN OPERATION. FAILURE TO HEED THESE WARNINGS COULD CAUSE SEVERE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

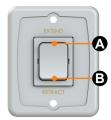
A CAUTION

TYING DOWN THE ROLL TUBE ONCE THE AWNING IS **EXTENDED WILL NOT ALLOW THE FREE-FLOATING** SUPPORT ARMS TO WORK AS DESIGNED AND MAY CAUSE DAMAGE TO THE AWNING OR UNIT.

- 1. Verify the unit's battery is fully charged and connected to the electrical system.
- 2. Press and hold EXTEND (Fig.15A) until the awning is extended completely.

NOTE: The awning fabric should always be above the roll tube. However, if the extend switch is engaged too long or extend is hit inadvertently instead of retract, the awning will roll up backward. This is not a defect. To correct the fabric orientation, press the RETRACT button Fig.15 (Fig.15B). The awning will then extend to its correct orientation and normal operation can resume.

lippert.com



Universal Awning Hardware

Converting to **12V Power Awning**

(For Aftermarket Application)

3. Set pitch using pitch arms with gas strut (Fig.16A) Scan the QR Code below to watch the video on How to Correctly Pitch a Lippert Awning.



A. Choose the side of the awning for optimum shade or convenient water runoff. Pitch MUST be set by adjusting the articulating arm to tip one side of the awning to allow water runoff.

NOTE: Before manually adjusting pitch, make sure there is no water or snow pooling or debris present on top of the awning fabric. Use a long-handled tool that will not puncture the fabric (e.g. a broom) to push up on the awning fabric to drain off the water, snow or debris.

B. Pull downward on the joint of the pitch arm until desired pitch is set (Fig. 16). A bolt, Belleville washers and nut (Fig. 17A) allow the joint to remain in the position set by the operator. If pitch arm does not hold position, see "Adjusting Pitch Arm Fasteners" in the Troubleshooting section of this manual.

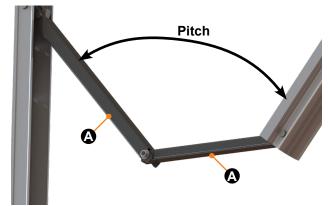
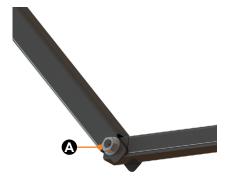


Fig.16



Rev: 07.24.24

Fig.17



NOTE: Do not push the joints of the articulating arms up past a straight line **(Fig. 18A)**. This will put tension on the gas strut, which can cause the strut to break.

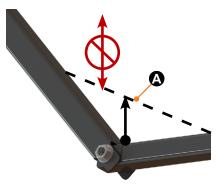


Fig.18

NOTE: Some awnings are equipped with a 2-position pitch arm (**Fig.19**). The 2-position arm can be set in the pitch position or snapped into a straight position by pushing the release button (**Fig.19A**) and sliding the sleeve (**Fig.19B**).

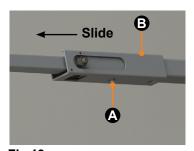


Fig.19

Universal Awning Hardware

Converting to 12V Power Awning

(For Aftermarket Application)

Retracting the Awning

1. Verify the unit's battery is fully charged and connected to the electrical system.

NOTE: The awning can be retracted without resetting the pitch.

2. Press and hold RETRACT (**Fig.15B**) until the awning is retracted completely.

A CAUTION

THE AWNING MUST BE RETRACTED COMPLETELY DURING INCIDENTS OF HIGH WIND, HEAVY RAIN AND/OR DURING ANY EXTENDED TIME AWAY FROM THE UNIT. FAILURE TO RETRACT THE AWNING IN THOSE INSTANCES COULD CAUSE EXTENSIVE DAMAGE TO THE AWNING AND UNIT.

Troubleshooting Chart

What Is Happening?	What Should Be Done?
Awning won't open or close.	If optional travel locks are installed, ensure that they have been unlocked.
	Verify the fuse is good.
	Check for power at the motor when the switch is in the extended or retracted position.
Awning pitch won't stay in the flat position.	Check for bad gas strut.
	Check pitch arm bolt for proper tension. (High winds can cause the pitch arm to deviate from the flat position due to the built-in safety feature of the awning.)
	Make sure all 3 washers are in the proper location of the pitch arm.



Troubleshooting Chart (Continued)

What Is Happening?	What Should Be Done?
Awning doesn't close all the way.	The awning is considered completely closed as long as the outer arm is overlapping the mount arm. This overlap can vary
	Ensure there are no obstructions in the support arm assemblies preventing the awning from closing.
	Verify the fabric is square from unit to roll tube and is rolling up straight on the roll tube.
Awning runs slowly.	The awning will run slower during retract than extend. Retract is approximately 35 seconds while extend is approximately 27 seconds on a fully-charged battery.
	Ensure there are 12 volts where the unit wire meets the awning wire during retract.
	Ensure the pitch arms are not bent in an upward direction.
	Ensure the ground wire before the switch has a good connection to the battery or chassis.
Lights won't work.	There is a resettable fuse that can take up to 30 seconds to reset.
	Make sure to have 12 volts to the red wire on the light.
	Ensure the bolts that hold the head to the support arm assemblies are tight.
	Ensure the end caps are seated properly on the roll tube.
Awning seems to wobble when	Ensure the shaft coming out of the head going to the end cap isn't bent
extending or retracting.	Ensure the mount arms are properly secured to the wall.
	Ensure no part of the support arm assemblies are bent.
	Ensure the wear collar spacers are all properly located in the support arm assemblies.
Awning works in opposite direction of what switch shows.	Wires going to awning have been reversed or switched. Reverse the wires.
Awning Rolls Up Backward	The awning fabric should always be above the roll tube. However, if the crank handle is operated past full extension, the awning will roll up backwards. This is not a defect. To correct the fabric orientation, simply operate the crank handle in the retract direction and the awning will then extend to its correct orientation and normal operation can resume.



Troubleshooting

Adjusting Pitch Arm Fasteners

If the pitch arm does not hold position, it can be tightened by adjusting the bolt (Fig. 20A) in the center of the pitch arm.

1. Use a $\frac{1}{2}$ " wrench to tighten the nut (Fig. 20A) while holding the bolt (Fig.20B) on the other side of the pitch arm with a $\frac{1}{4}$ " hex wrench.

NOTE: When tightening the nut do not tighten more than $\frac{1}{4}$ turn at a time and do not tighten to the point of crushing the pitch arm.

NOTE: Existing bolt, Belleville washers and nut are installed in a specific orientation for tensioning. Removal of these components or modification of the orientation will cause adverse effects on the pitch arm functionality.

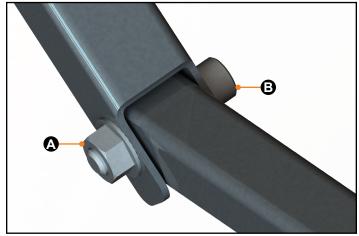


Fig.20

Universal Awning Hardware

Converting to 12V Power Awning

(For Aftermarket Application)

Manual Override

In the event of power loss or motor failure, the awning can be extended and retracted manually. Perform the following procedure to manually retract the awning.

NOTE: This procedure may also be performed to extend or retract the awning in the event of dry camping or camping without a battery.

1. Remove the rubber grommet **(Fig.21A)** from the drive head assembly, exposing the manual override nut on the motor.



Fig.21

2. Using a $\frac{1}{16}$ " socket and cordless or electric drill or screw gun, spin the manual override nut counterclockwise to retract the awning **(Fig.22)**.

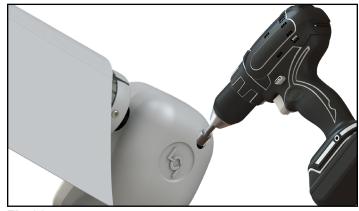


Fig.22

13

NOTE: Use caution when retracting the awning manually. The use of a step stool or ladder may be required to completely retract the awning.

3. When the awning is completely retracted, replace the rubber grommet in the drive head assembly **(Fig.21A)**.



NOTE: The motor's internal drive system prevents the awning from moving (extend or retract) on its own. If the motor is damaged or disabled, be sure to secure the awning in the retracted position with a strap around both the outer arm and the mount arm before the manual override nut is released.

A CAUTION

DURING INCIDENTS OF HIGH WIND, HEAVY RAIN OR EXTENDED TIMEAWAY FROM THE UNIT, IT IS ADVISABLE TO RETRACT THE AWNING COMPLETELY TO PREVENT DAMAGE TO THE AWNING AND THE UNIT.

Universal Awning Hardware

Converting to 12V Power Awning

(For Aftermarket Application)

Maintenance

Fabric Care

NOTE: If the awning is retracted while wet, extend the awning and let it dry as soon as conditions allow before retracting. This will help prevent the formation of mildew and add greatly to the life of the awning. Mildew does not form on the fabric itself, but on the accumulated dust, dirt and grime.

NOTE: Periodically clean vinyl or woven acrylic fabric using a mixture of ½ cup of dish soap and 5 gallons of warm water. Liberally apply the mixture on the top of the fabric and retract the awning for 5 minutes. This will apply the mixture to the bottom of the fabric as well. Extend the awning and hose off with fresh water. Repeat if necessary. Allow to dry before retracting.

Notes	



Universal Awning Hardware

Converting to 12V Power Awning (For Aftermarket Application)

 -



Universal Awning Hardware

Converting to 12V Power Awning (For Aftermarket Application)

 LIPPERT
 Manual information may be distributed as a complete
document only, unless Lippert provides explicit consent to distribute individual parts.
All manual information is subject to change without no-
tice. Revised editions will be available for free download at lippert.com . Manual information is considered factual until made obsolete by a revised version.
Please recycle all obsolete materials and contact Lippert with concerns or questions.