

A Half Cassette Awning Assembly Guide

Have a
question or an issue?
We're here to help!

Call or email us
and one of our Product Experts
will help you find a solution.



833-926-2323



hello@aleko.com

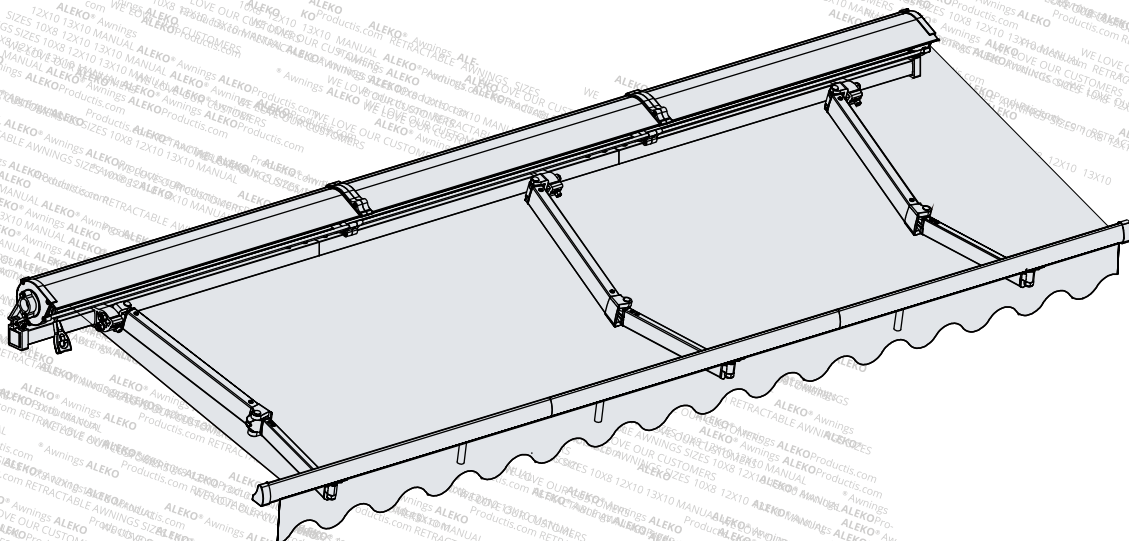
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A Half Cassette awning Assembly Guide

For 16x10 and
20x10 ft. sizes.



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! INTRODUCTION

Thank you for purchasing ALEKO's Retractable Motorized Awning! We hope you will enjoy your awning for many years to come!

To ensure your personal safety during installation and to get the most out of your investment, please read this entire manual before beginning the installation process. If you feel that this process is too difficult to do on your own, we advise that you seek assistance from a local building or home improvement contractor.



WARNING Improper assembly and operation of your awning can result in severe personal injury as well as product failure not covered by warranty. Please follow all instructions carefully or contact technical support for assistance.

Installation can be a simple, streamlined process if you follow the instructions in this manual. To accompany these written instructions, ALEKO has a YouTube channel with assembly and installation tutorials, demos, and more. Go to: www.youtube.com/AlekoProducts.

Please contact our customer support line for help any step of the way. If you need assistance with assembly, have missing or defective parts, or any other issues, please email us at Sales@AlekoProducts.com or give us a call Monday through Friday, 7am-6pm PST at **+1 (888) 246-8596**.

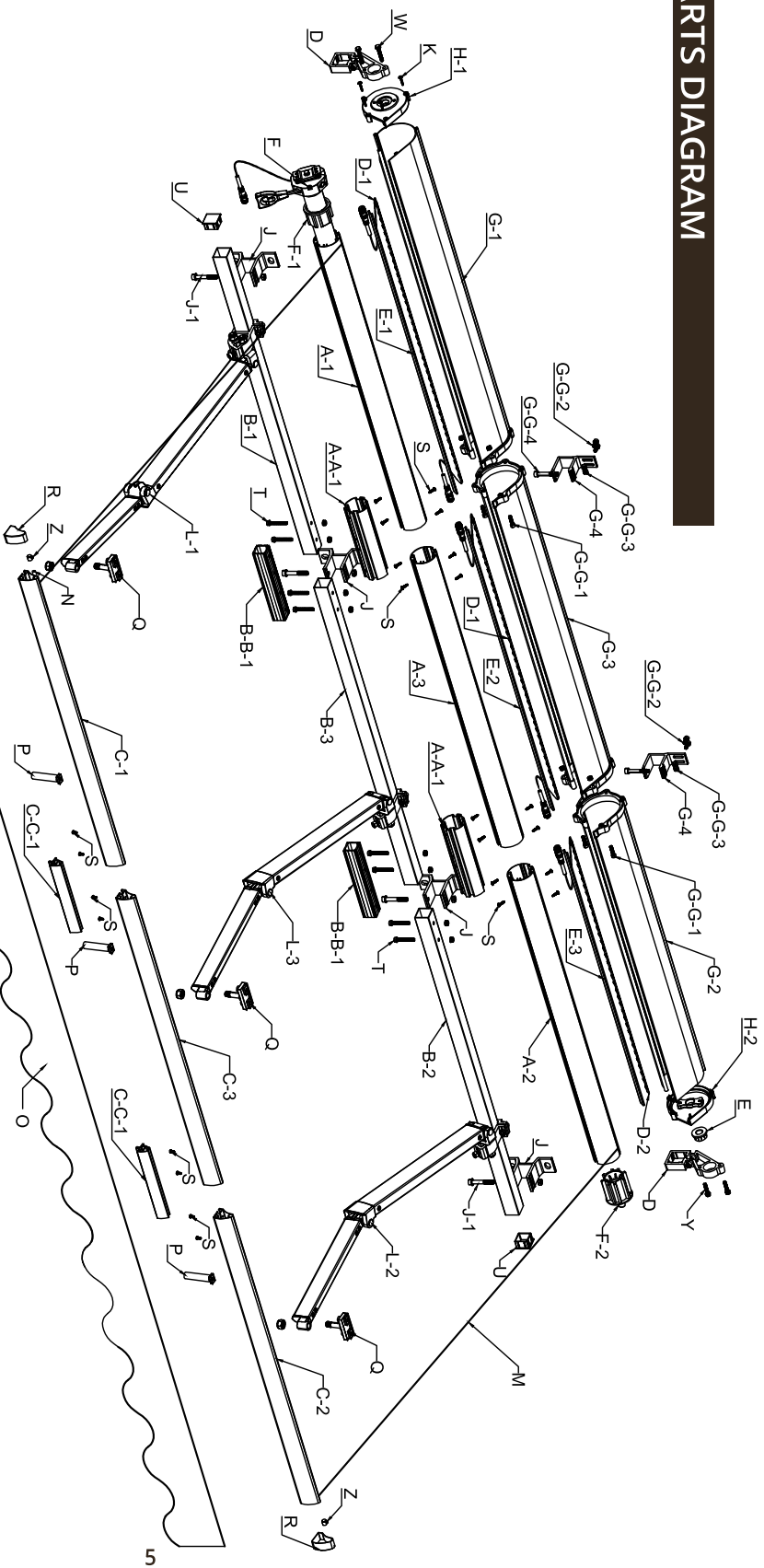
WARNINGS

- ! Failure to follow these instructions can result in a broken product or personal injury. Please be attentive to each step.
- ! Open the awning packaging carefully to avoid damage to the product or injury to yourself or others.
- ! DO NOT remove the safety wrap that secures the awning arms until instructed to do so. The awning arms will spring open and **can cause serious injury** if handled inappropriately.
- ! Be sure to install ALL screws tightly for maximum security.
- ! Never install your awning in an area with high winds. The awning could fall and cause injury or property damage.
- ! Do not install the awning in a place that receives excessive vibrations.
- ! Do not install the awning in places with high temperatures, such as walls near furnaces.
- ! Never place heavy items on the awning frame. This can cause it to fall down.
- ! Close the awning in storm conditions, such as excessive wind and rain.
- ! Two adults are required for successful and safe assembly.

TOOLS REQUIRED FOR ASSEMBLY

- | | |
|--|-----------------------------------|
| 1. Tape measure | 6. Socket wrench with 19mm socket |
| 2. Marker | 7. Electric drill with 16mm bit |
| 3. Wood or plastic mallet | 8. Scissors |
| 4. Phillips head screwdriver | 9. Two ladders |
| 5. Allen wrench key in 5, 6, 10, 14, 17, and 19 mm Sizes | |

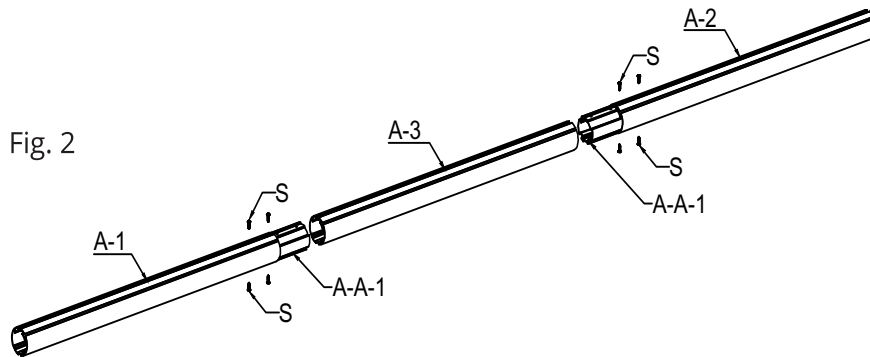
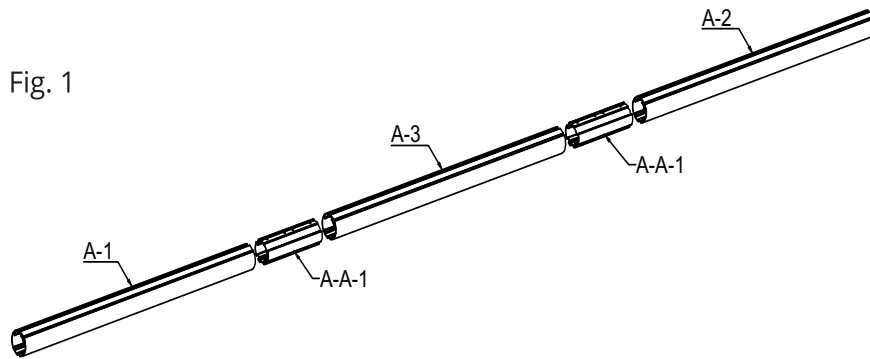
PARTS DIAGRAM



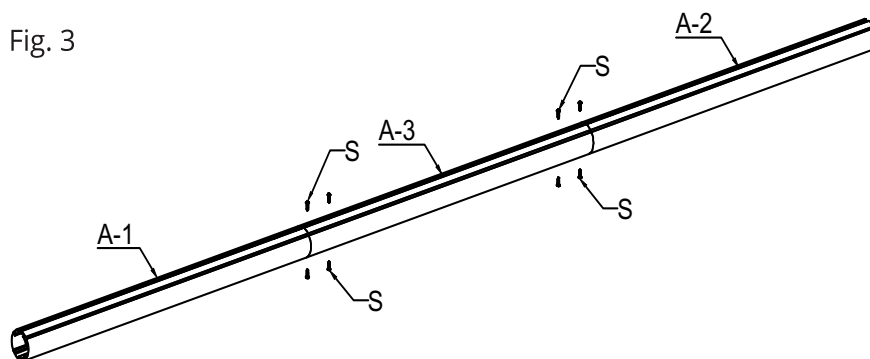
- | | | | | | | | |
|--------|-------------------------|------|--------------------------------------|--------|-------------------------------------|----|---------------------------------------|
| A-1. | Fabric roller (left) | D-1. | LED with male/female plug | G-G-1. | Bolts M6*25 | N. | Fabric liner |
| A-2. | Fabric roller (right) | D-2. | LED with female plug | G-G-2. | Bolts M6*16 | O. | Arm-bar link |
| A-3. | Fabric roller (middle) | E. | Plastic bushing | G-G-3. | Square nuts M6*10*10 | P. | Blocker |
| A-A-1. | Fabric roller connector | E-1. | left transparent plastic cover. | G-G-4. | Bolts M8*50 | Q. | Arm-bar link |
| B-1. | Torsion bar (left) | E-2. | middle transparent plastic cover | H-1. | End cap for awning cassette (left) | R. | Plastic cover for front bar |
| B-2. | Torsion bar (right) | E-3. | right transparent plastic cover | H-2. | End cap for awning cassette (right) | S. | Self-tapping screws M4*10 |
| B-3. | Torsion bar (middle) | F. | Motor | J. | wall brackets | T. | Bolts M6*45 |
| B-B-1. | Torsion bar connector | F-1. | Motor adapter | J-1. | M8*55 bolts | U. | Plastic cover for torsion bar |
| C-1. | Front bar (left) | F-2. | Fabric roller end cap with Round bar | K. | Self-tapping screws M4.8*25 | W. | Bolts M6*40 |
| C-2. | Front bar (right) | G-1. | Awning Cassette (left) | L-1. | Left arm | Y. | Bolts M6*30 |
| C-3. | Front bar (middle) | G-2. | Awning Cassette (right) | L-2. | right arm | Z. | Spare parts for Front Bar Fabric Lock |
| C-C-1. | Front bar connector | G-3. | Awning Cassette (middle) | L-3. | middle arm | | |
| D. | Fabric roller support | G-4. | Cassette holder | M. | Fabric | | |

Assemble the Fabric Roller (A)

- Insert roller connector (A-A-1) into Right and Left Fabric Rollers (A-1) and (A-2), then tap into place with a mallet (Fig. 1), use 4 screws (S) to secure each (A-A-1) in place (Fig. 2).

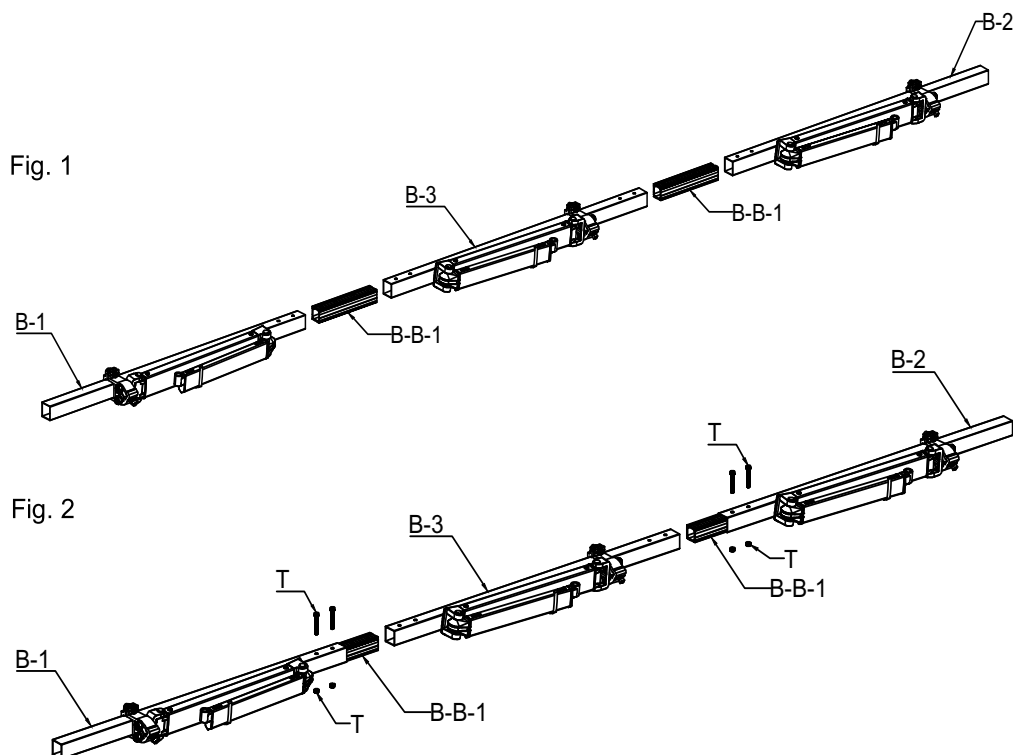


- Insert roller connectors (A-A-1) into middle fabric roller (A-3), tap into place with mallet, use 4 screws (S) to secure each (A-A-1) to (A-3) (Fig. 3).

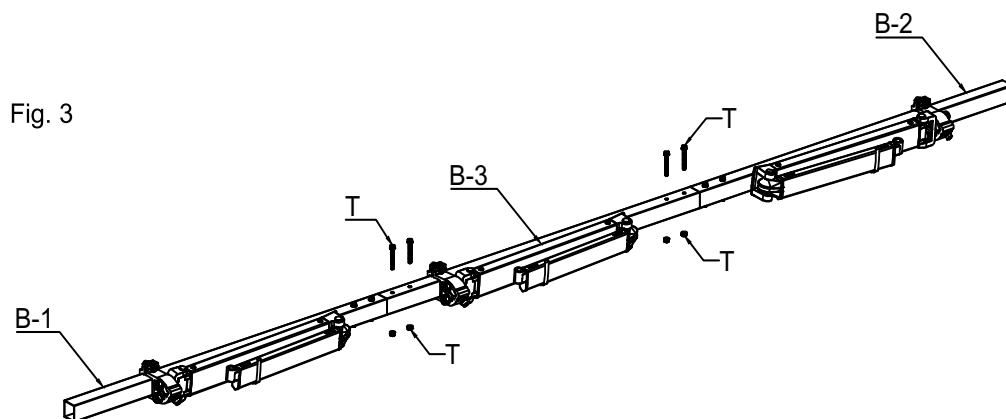


Assemble Torsion Bar (B)

- Insert torsion bar connectors (B-B-1) into Left and Right Torsion Bar sections (B-1 and B-2) (Fig. 1), tap into place with mallet, use 2 bolts (T) to secure each (B-B-1) in place (Fig. 2).



- Insert torsion bar connectors (B-B-1) into middle torsion bar (B-3), tap into place with mallet, use 2 bolts (T) to secure each (B-B-1) in place (Fig. 3).

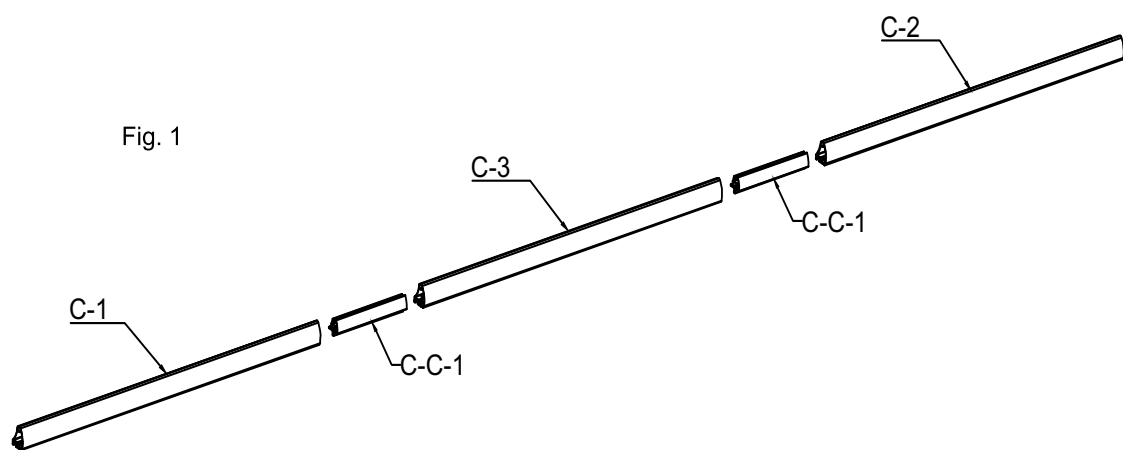


Assemble Front Bar (C)

- Insert front bar connector (C-C-1) into Left and Right Front Bar sections (C-1 and C-2) (Fig. 1), tap into place with a mallet, use 2 screws (T) to secure each connector (C-C-1) in place (Fig. 2).



WARNING DO NOT REMOVE THE SAFETY SLEEVES THAT HOLD THE ARMS DOWN!



- Insert arm-bar link (Q) and blocker (P) through the side slot of front bar section (C-3) into its position on middle front bar (C-3) (Fig. 3).

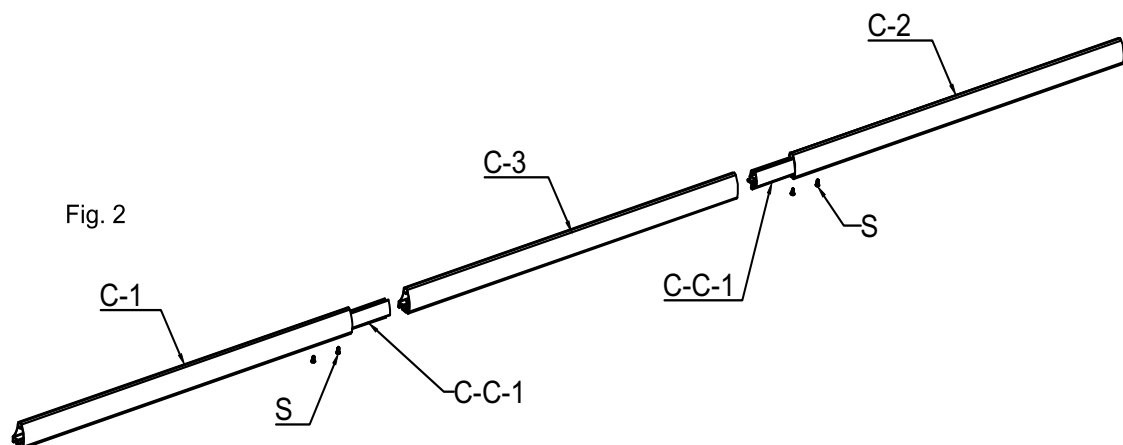
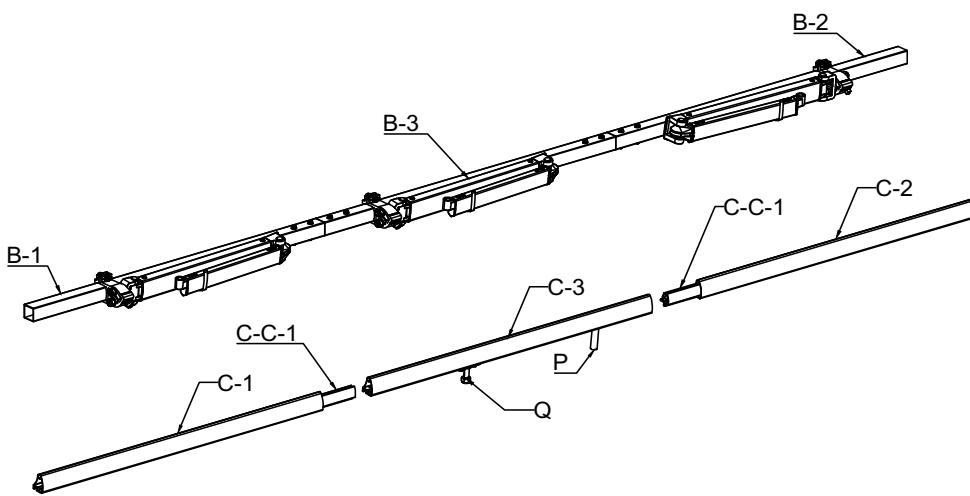
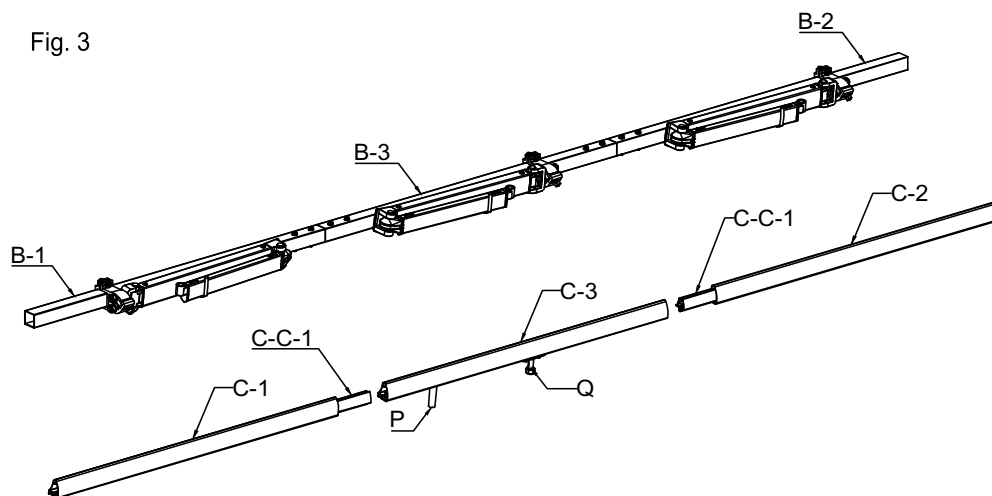
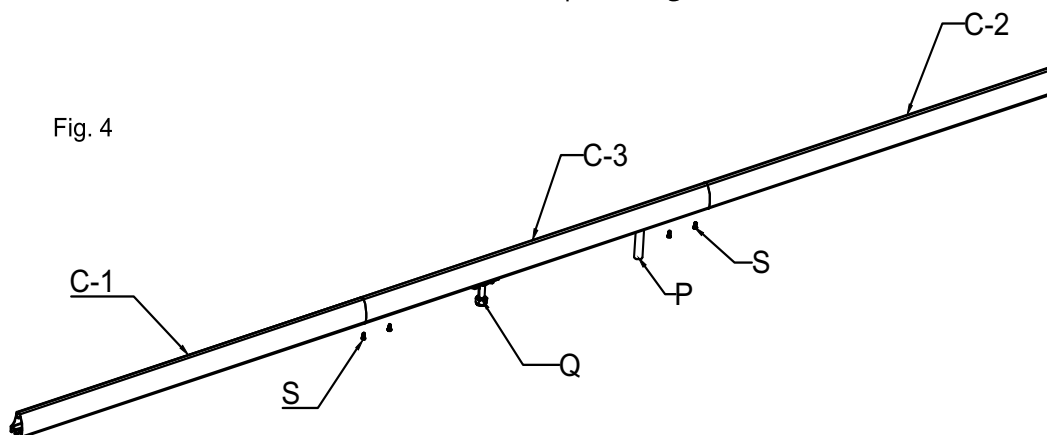


Fig. 3



- Insert the connectors (C-C-1) into Middle Front Bar (C-3), tap into place with a mallet, use 2 screws (T) to secure each connector (C-C-1) in place (Fig.4).

Fig. 4

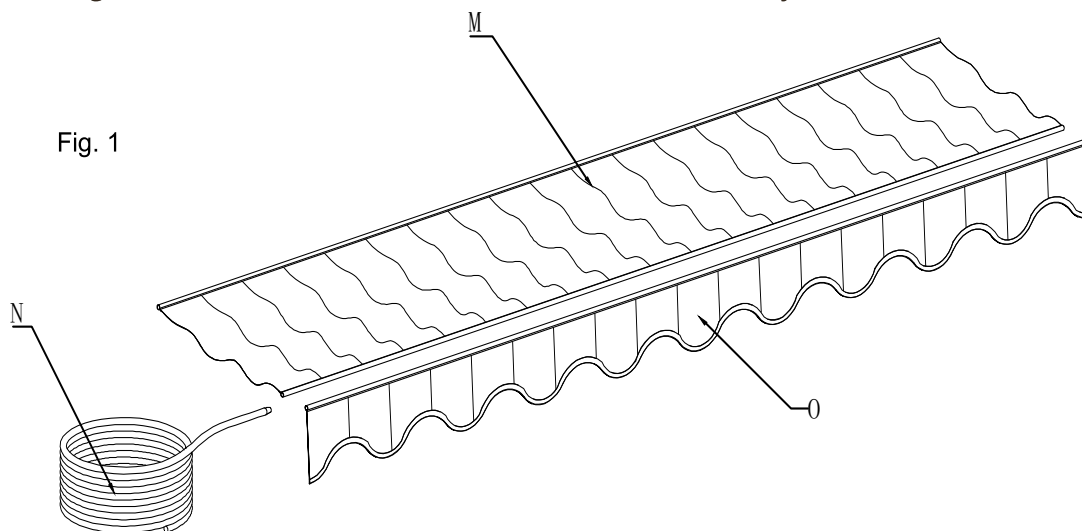


ASSEMBLY

Assemble the fabric.

- Unfold canopy (M) and valance (O).
- Thread fabric liner (N) through both ends of (M) and (O); two people will make this much easier.
- Once (N) has been threaded through both sides of (M), thread the back side of (M) and its liner through the slot in the assembled fabric roller (A) all the way to the end.

Fig. 1



- Use the roller tube to roll canopy (M) into the assembled fabric roller (A).
- Thread the front side of (M) through the slot in the assembled front bar (C).
- Thread valance (O) with liner (N) into front bar (C).
- Insert fabric roller end cap (F-2) into the ends of assembled fabric roller (A).

Fig. 2

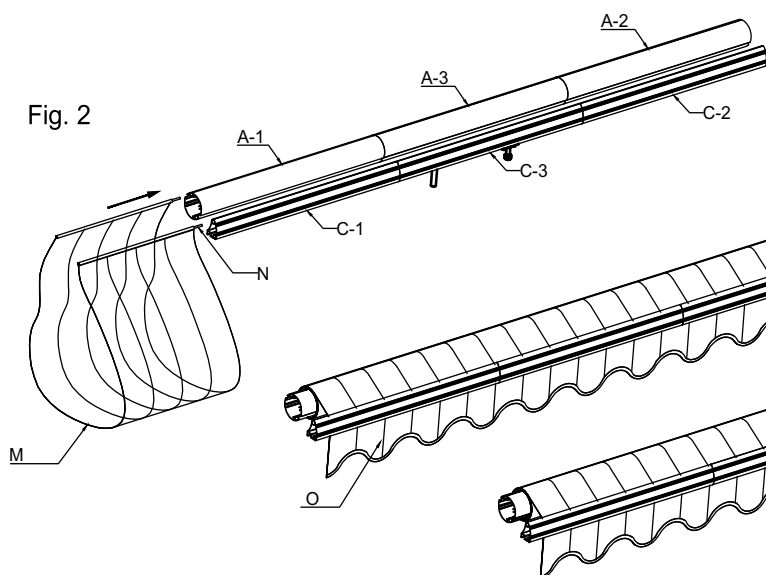
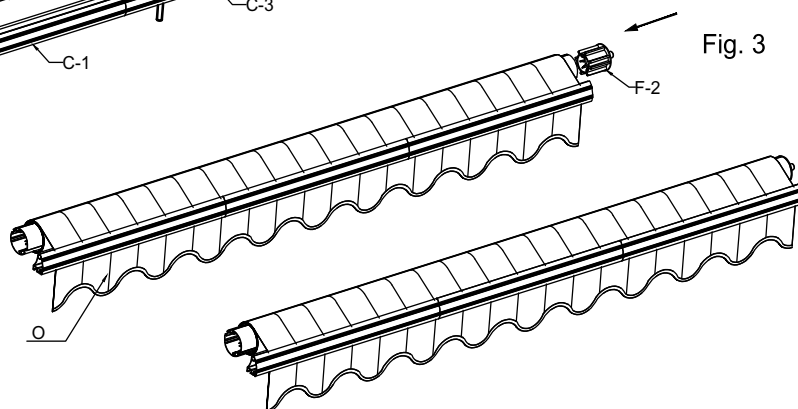


Fig. 3



Assemble the Cassette (G).

- Insert assembled fabric roller (A) into cassette (G-2), be sure round bar on (F-2) fits through the hole at the right end of (G-2) (Fig. 1).
- Connect Right Awning Cassette (G-2) to Middle Awning Cassette (G-3) and fasten with 3 bolts (G-G-1) (Fig. 3).

Fig. 1

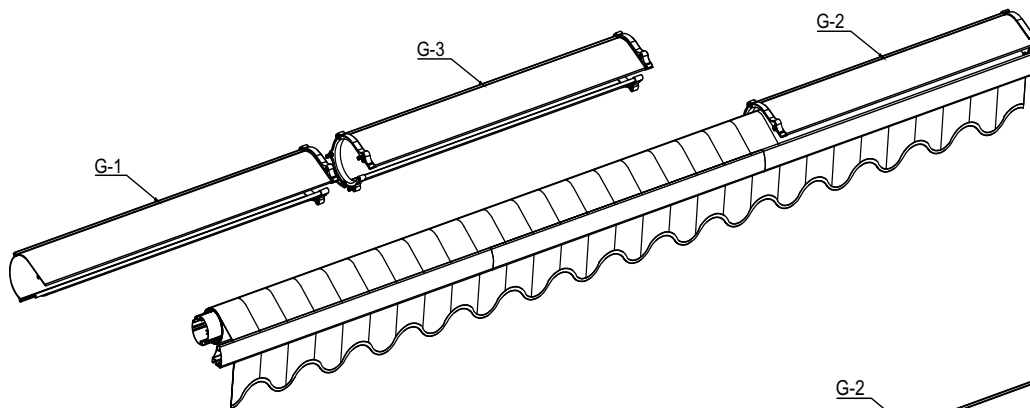
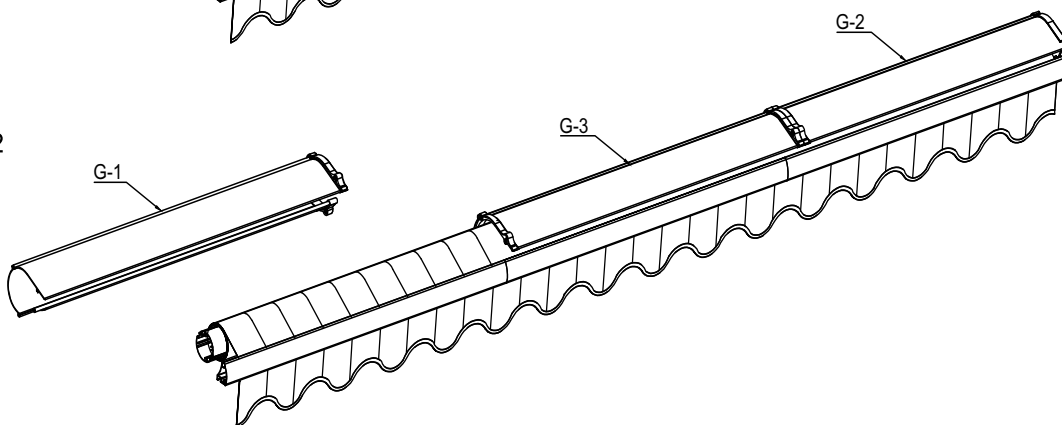
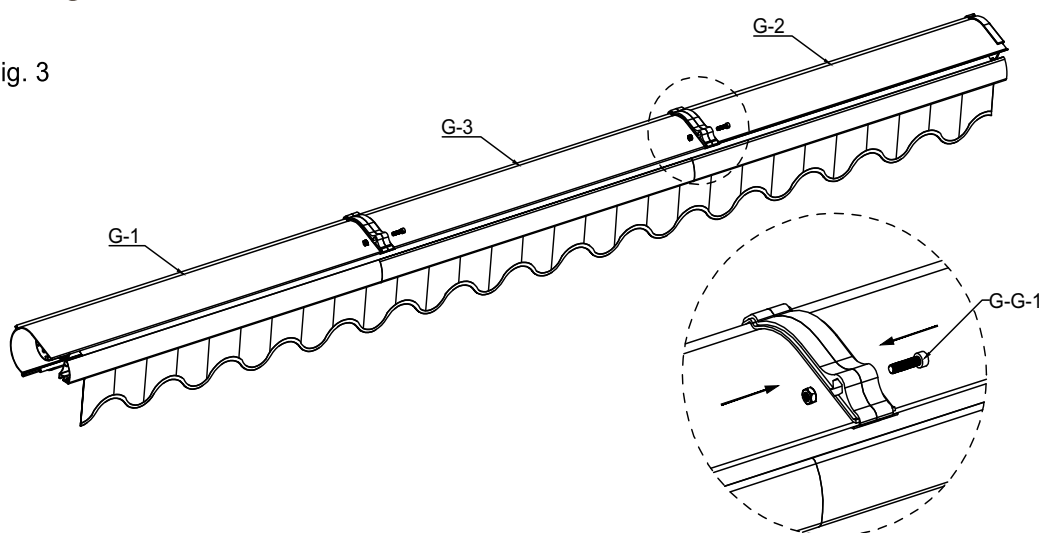


Fig. 2



- Connect Left Awning Cassette (G-1) to Middle Awning Cassette (G-3) and fasten with 3 bolts (G-G-1) (Fig.2 and 3).

Fig. 3



Assemble Motor (F).

- Attach Motor Adapter (F-1) to Motor (F), ensure perfect fit.
- Insert Motor (F) into Left Fabric Roller (A); verify secure connection between end cap (H-1) and cassette (G) (Fig. 1).

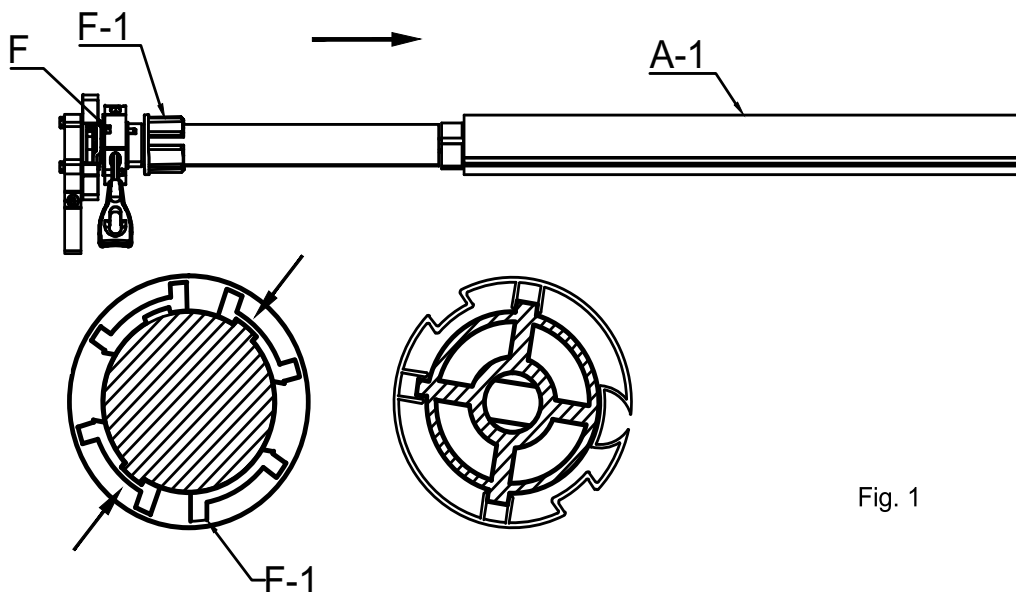
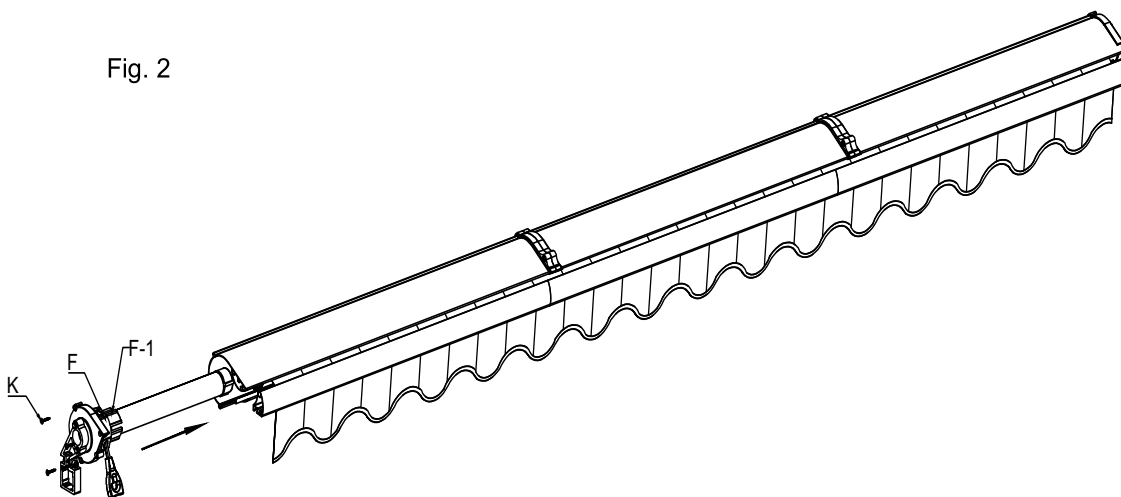


Fig. 1

- Fix end cap (H-1) to cassette (G-1) with 4 screws (K) (Fig. 2).

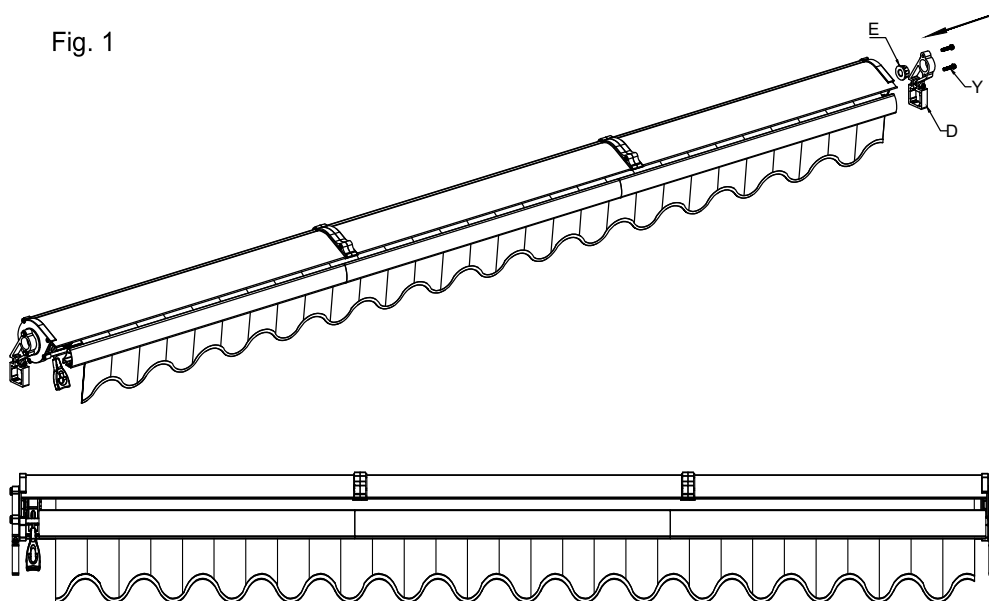
Fig. 2



Assemble the Roller Support

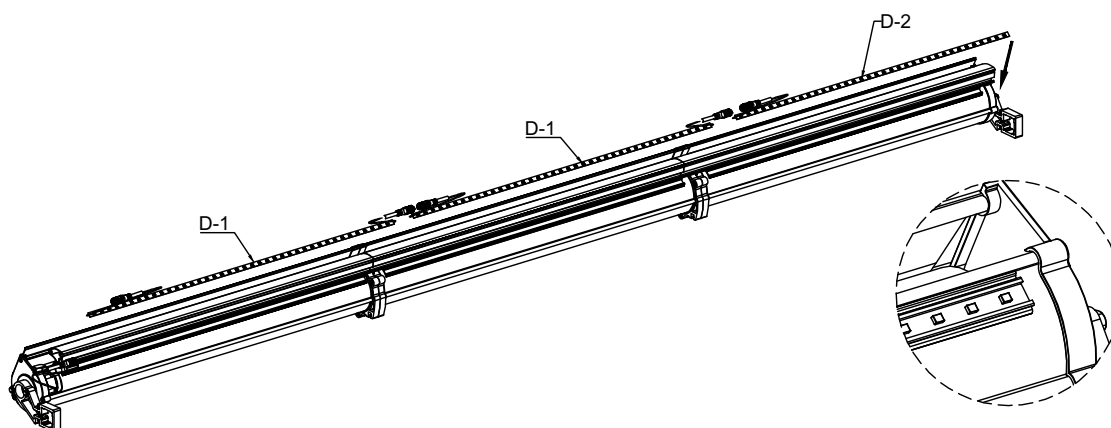
- Place 1 Fabric Roller Support (D) and 1 plastic bushing (E) on the end cap of Right Awning Cassette (G-2/F-2)
- Attach the fabric roller support to end cap (H-2) with 2 bolts (Y) (Fig. 1).

Fig. 1

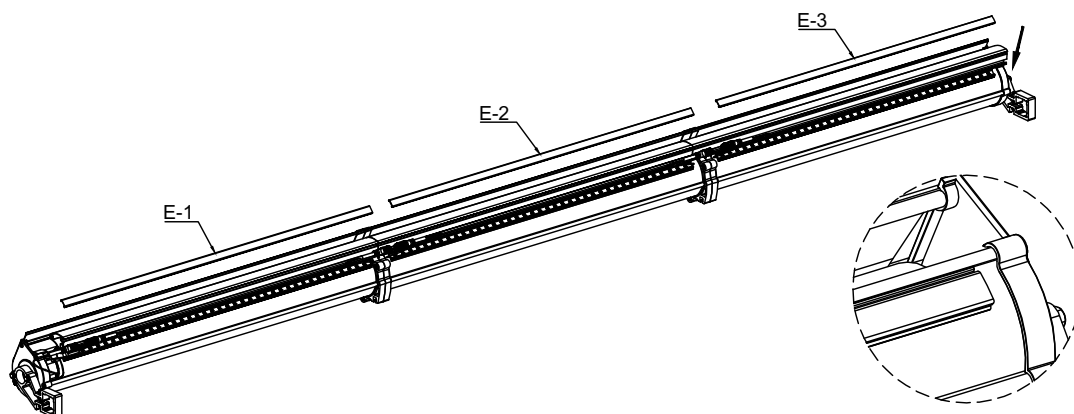


assemble LED

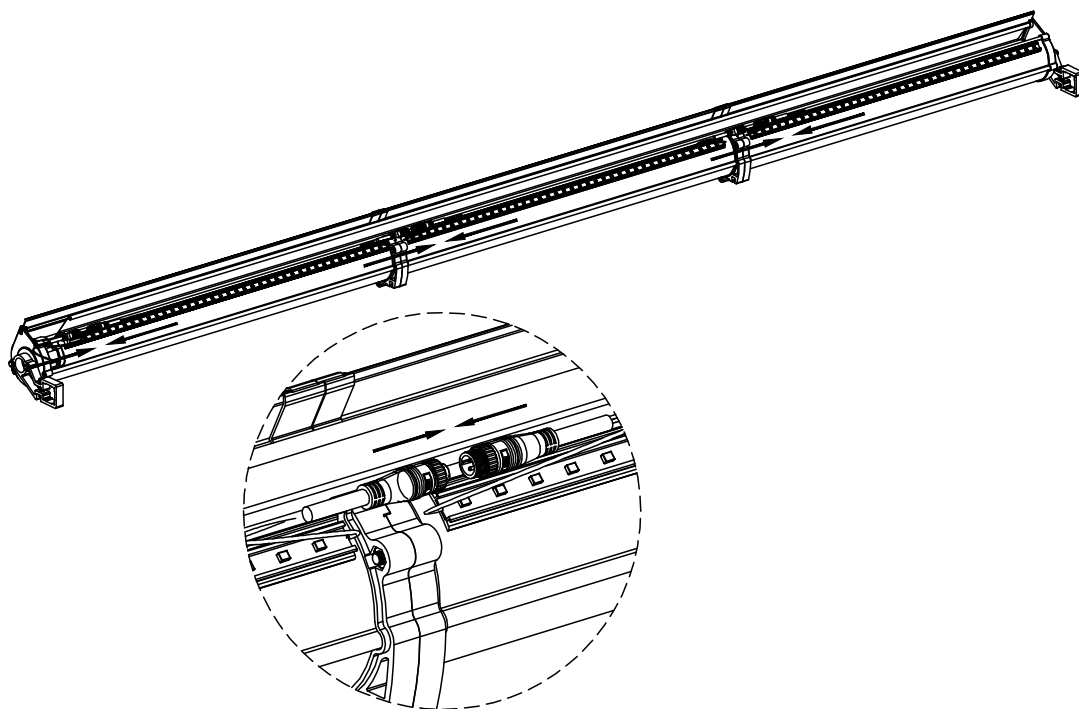
- Stick adhesive LED tape (D-1) which with male/femal plug to LED groove on cassette (G-1) and (G-3)
- stick adhesive LED tape (D-2) which only with male plug to LED groove on Cassette (G-2)



- c. fix plastic cover (E-1) to LED groove on cassette (G-1) fix plastic cover (E-2) to LED groove on (G-3) fix plastic cover (E-3) to LED groove on cassette (G-2)



- d. connect LED tape together with plugs on them and then to the motor, lock tightly.



Connect the Assembled Cassette to the Assembled Torsion Bar.

- Insert assembled torsion bar (B) about 2 inches into the (G-2) side of the assembled cassette roller support (Fig. 1).
- Align torsion bar with roller support on (G-1) side of cassette and adjust towards (G-1) to insert. Make sure roller supports (on D and F) and the ends of the assembled torsion bar are flush (Fig. 2).
- Secure roller support (D) by tightening bolts with a 6mm Allen wrench.

Fig. 1

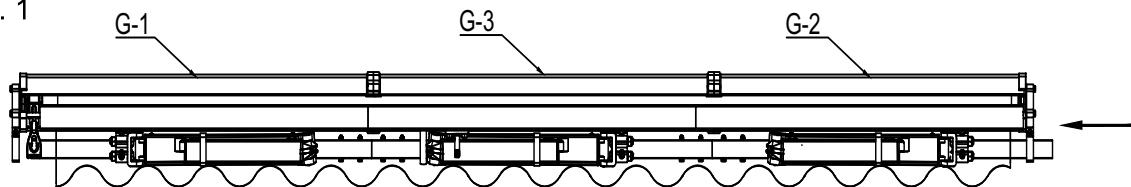
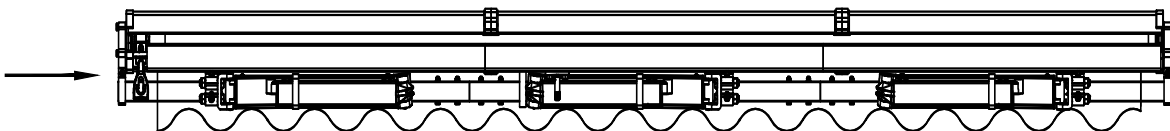


Fig. 2



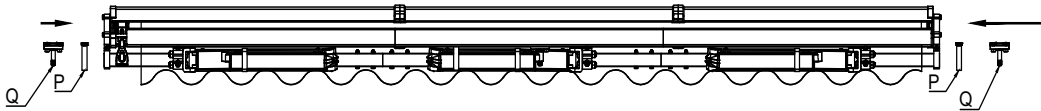
Connect Arm Bar to the Assembled Front Bar.

- Before assembly, inspect the wrapping on the arm bar (L) and make sure the wrapping is intact.

Arm bars are spring-loaded and can cause serious damage or injury during assembly.

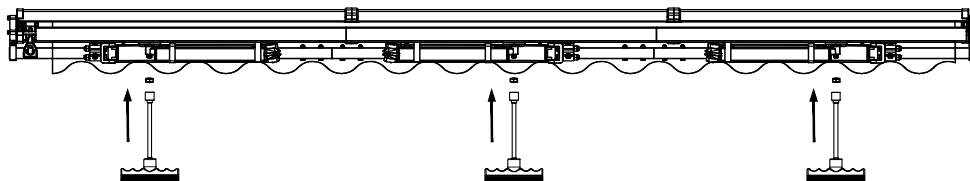
- Insert blocker (P) into left side slot of assembled front bar (C) and tighten down blocker to the middle of the front bar section (C-1).
- Insert blocker (P) into the right side slot of assembled front bar (C) and tighten down blocker in the middle of front bar section (C-2).

Fig. 1



- Insert arm bar link (Q) to each end of the front bar (C) near the heads of each arm (L), which are attached to the torsion bar (B).
- Attach the arm bar links (Q) to the top of each arm (L) and tighten with a wrench.

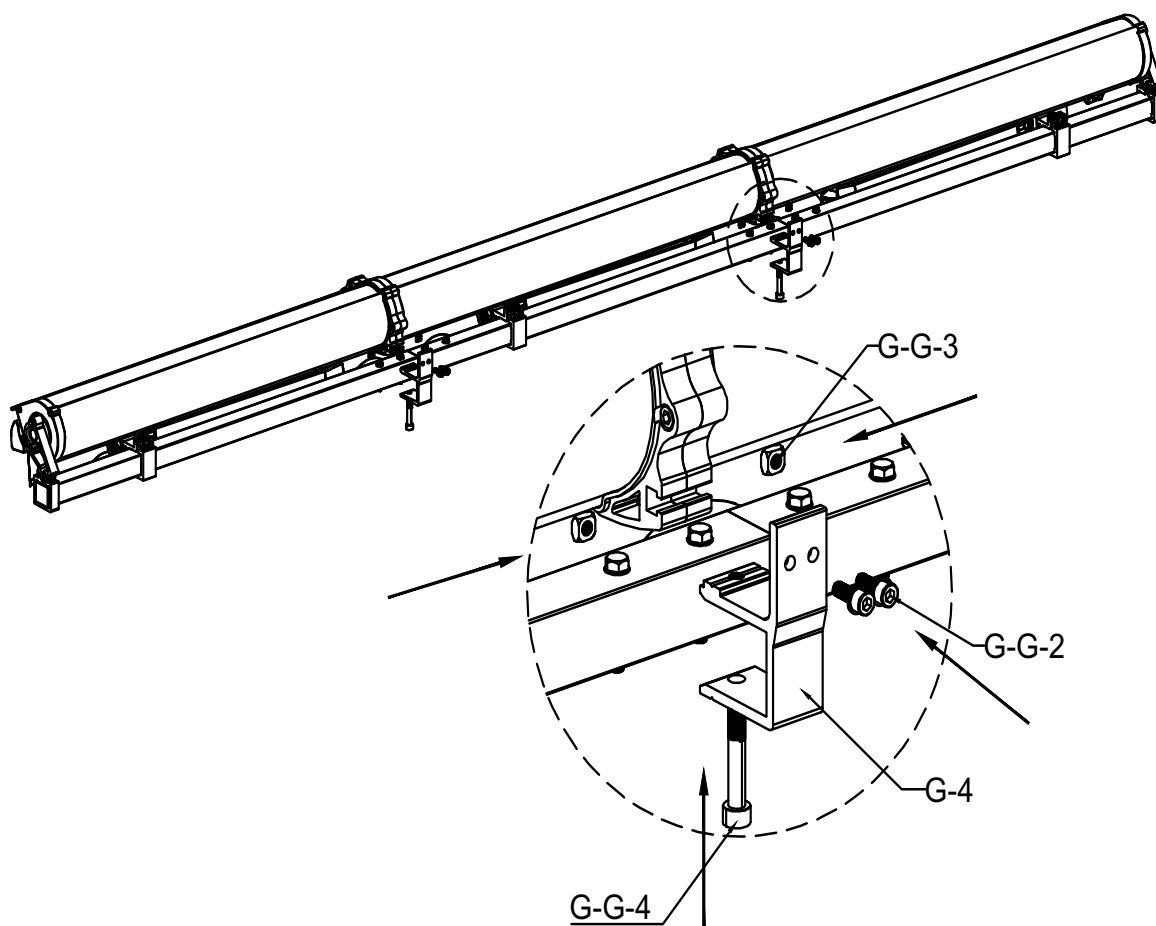
Fig. 2



WARNING DO NOT REMOVE THE SAFETY SLEEVES THAT HOLD THE ARMS DOWN!

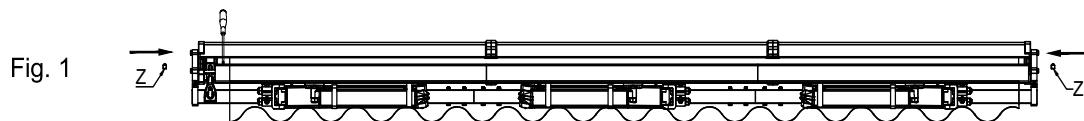
• Attach Cassette Support

- Insert 2 nuts (G-G-3) into the back groove of each junction on the assembled cassette (G) (Fig. 1). Junctions can be found at the connection point between G-1 and G-3, and G-3 and G-2.
- Insert cassette support (G-4) around torsion bar (B) so that the G-4 brackets are supporting the top and bottom of the torsion bar assembly.
- Attach (G-4) to the cassette (G) with 2 bolts (G-G-2).
- Fasten (G-4) to torsion bar (B) with 1 bolt (G-G-4).
- Repeat process for both Cassette Supports.

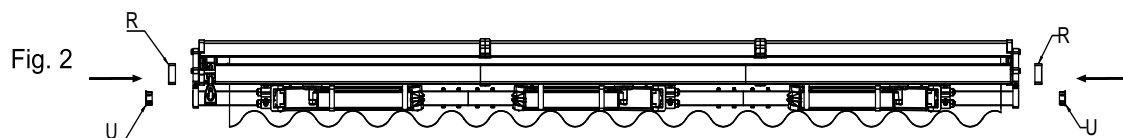


Finish Assembly

- Insert fabric locks (Z) into both ends of assembled front bar (C) near the canopy fabric (M), tighten fabric locks with a Phillips head screwdriver (Fig. 1).



- Insert torsion bar cover (U) and front bar cover (R) onto each end of the assembled torsion bar and assembled front bar (R), respectively (Fig. 2).

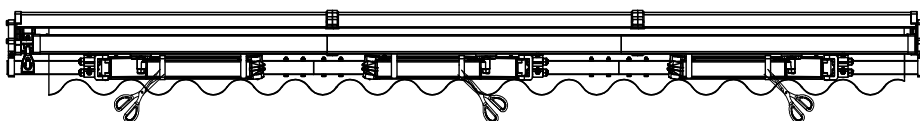


- Once the awning is completed, you can cut the wrapping on the arms (Fig. 3).

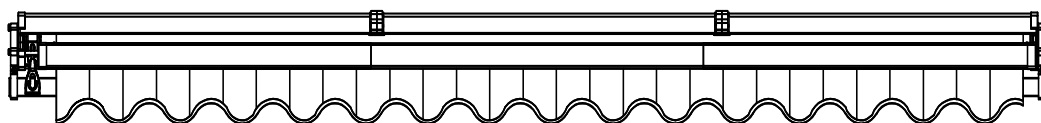


USE CAUTION WHEN REMOVING THE SAFETY SLEEVES THAT HOLD THE ARMS DOWN!

Fig. 3



Enjoy your completed awning!





If you find that the fabric wraps unevenly or that the two arms won't open together at the same time, look at the stability of the two arms. Solution: adjust the arm bar link's position on the front bar outwards, as necessary.

INSTALLATION

Notes About Wall Mounting

Never attempt to secure the wall brackets to loose wall stones or any surfaces that are not absolutely firm!



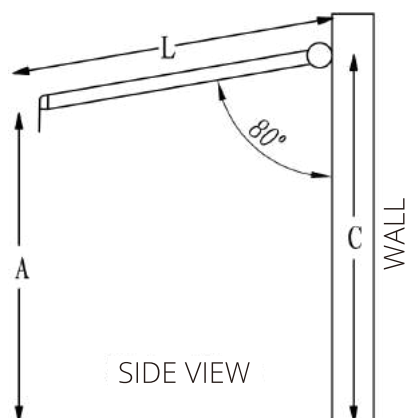
CAUTION: Proper location of the brackets is the most important aspect of the awning installation. It is critical that you fasten all the mounting brackets to studs, joists, headers or other major structural components.



WARNING: Failure to securely fasten all the brackets to the wall could result in the collapse of the awning and cause personal injury or death.

Mounting Height

It is important to take the awning's drop area into consideration before bolting your wall mounts. If you would like to mount above a patio door, for example, please leave at least 8 inches above the door frame and be sure that the awning does not interfere with opening and closing the door. The drop angle can only be changed minimally, so take this into consideration when deciding where to place your awning.



We recommend that the awning surface make an angle of about 80 degrees to the wall when open.

- **Recommended Installation Height:** 8-12 feet.
- **The ideal drop angle (when fully extended) has already been set in the factory**, so you may not have to change the pitch/angle.
- **The awning has a drop** of 24 inches when at a slope, or 15 degrees.

CALCULATIONS:

You can use the following formula to calculate the appropriate angle.

$$C = A + 0.17 * L$$

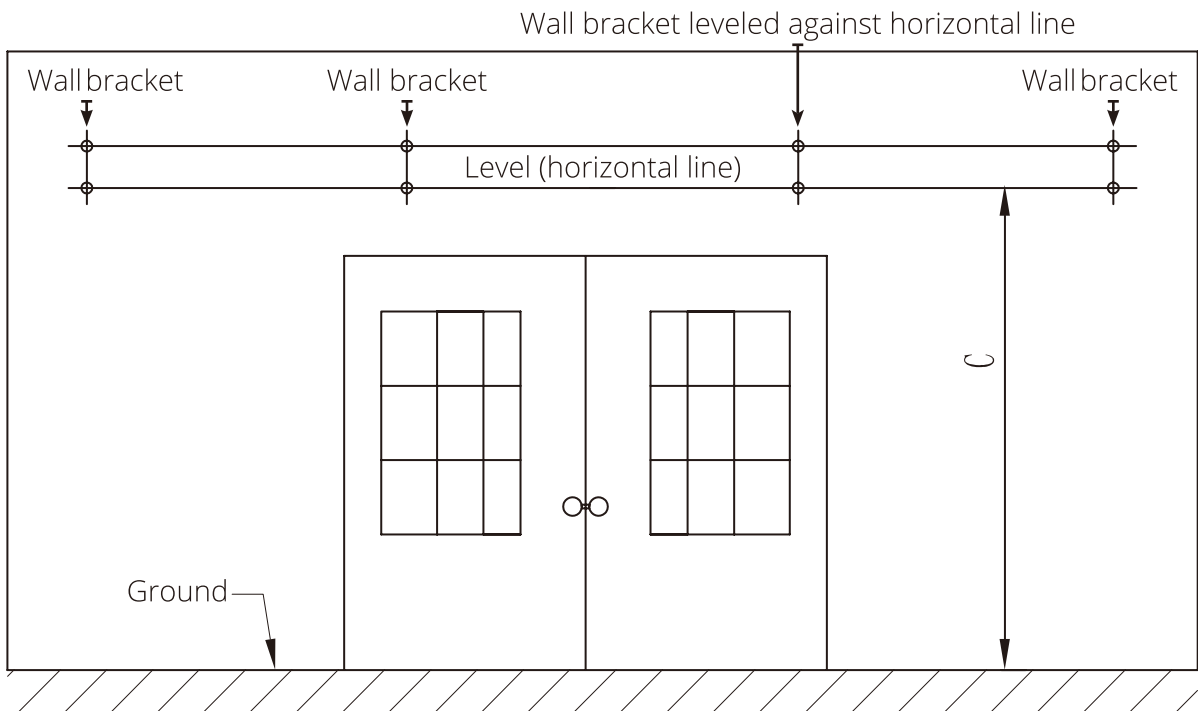
A = The desired height of the front bar

L = The length of the arm stretched out

C = The height of the wall brackets

STEP 1: Measuring the Mount Site

1. Measure the length of your awning along the wall where you intend to install it. This line will be the highest point of your awning and align with the top of the wall bracket. Use a leveler to make a chalk line across the distance.
2. **Important: double check that the line is level all the way across.**
3. Be sure that the line is centered over the patio door, window, or other feature, if applicable.
4. Now that you have a straight, centered line, measure the middle point and mark it. Now measure the middle point between the right side and the middle line, and the middle point between the left side and the middle line. You will install two of the brackets on these points. The remaining two brackets will be installed on the far right and far left points.
5. Take a wall bracket and place the top of it, completely level, under the line, as shown in the diagram below. With chalk or a pencil, mark the position of all the wall brackets and their bolt holes.



STEP 2: Drilling the Bolt Holes

1. Now that you have a straight, level line across the wall with the locations of the wall brackets and their bolt holes marked, you will drill holes to mount the brackets.
2. Using a 16mm masonry drill bit, drill the first bolt hole approximately 4 inches (9 centimeters) deep, as shown in the diagram. This must be drilled through solid brick or concrete to offer the necessary support for the awning.
3. Drill the remaining holes exactly as in step 2.



!! IMPORTANT: All bolt holes must be aligned vertically and horizontally to ensure that the awning hangs straight.
Double check alignment before drilling if you are not certain.

!! IMPORTANT: The diameter and depth of your mounting holes must be the same size as the expansion bolts.

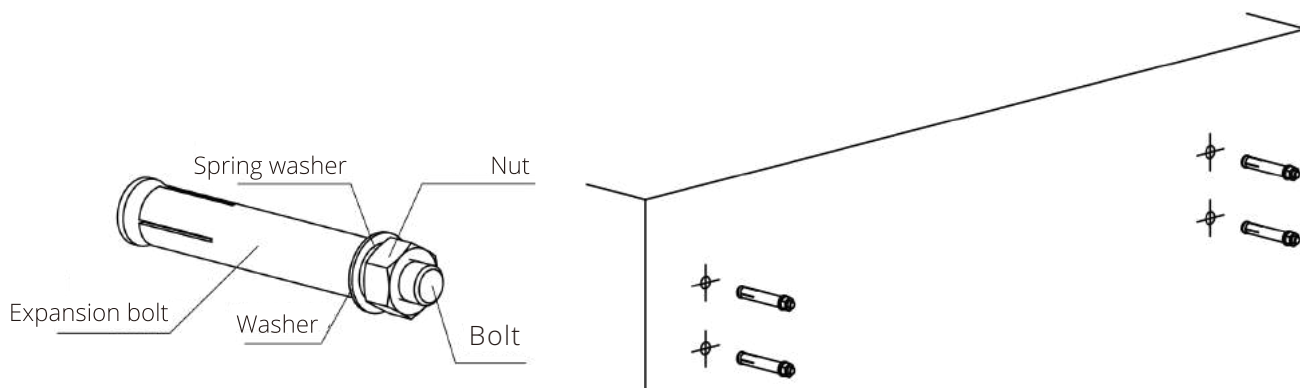
STEP 3: Preparing For Mounting

1. Now that all of your holes are drilled, insert the expansion bolts.
2. It may be necessary to drive the bolts in with a wooden (or other non-metallic) mallet.



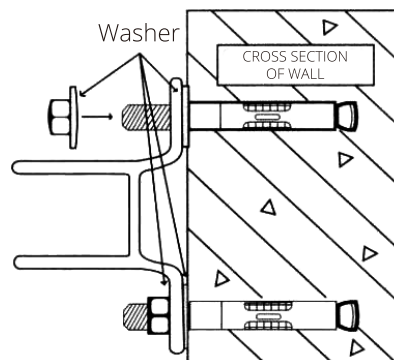
If a mallet is necessary for installation, we recommend placing the nut on the screw (loosely) before hammering to avoid damaging the bolt threads.

3. Make sure that the bolts are firmly in place, yet let them stick out of the wall approximately 1 inch or less - enough that the wall bracket can be installed onto them.
4. Firmly tighten the bolts with a 19mm hex key. It is best to use the hex key with a closed end rather than an open end to avoid damaging the nut, should it slip.



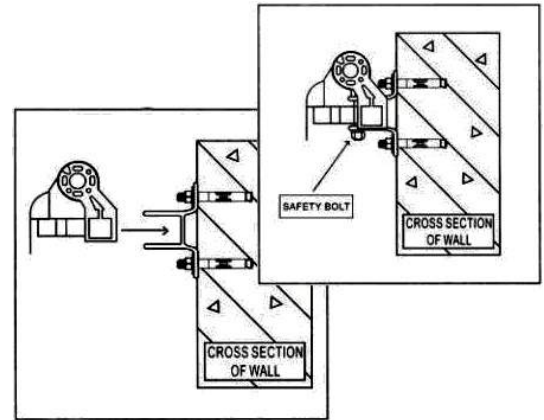
STEP 4: Mounting the Wall Brackets

1. Now that the bolts are securely in the wall, remove the nuts that are loosely placed over the bolts.
2. Place a wall bracket onto one set of bolts. This should be an easy fit if the bolt holes are properly aligned.
3. Once the wall bracket is resting on the bolts, place a washer over the bolt, then secure it with a nut, as shown in the diagram.
4. The **brackets MUST sit firmly on the wall**. If there is any movement, you must tighten it more.
5. Repeat this step for each of the wall brackets. Once you do this, all wall brackets will be securely in place.



STEP 5: Mounting the Awning

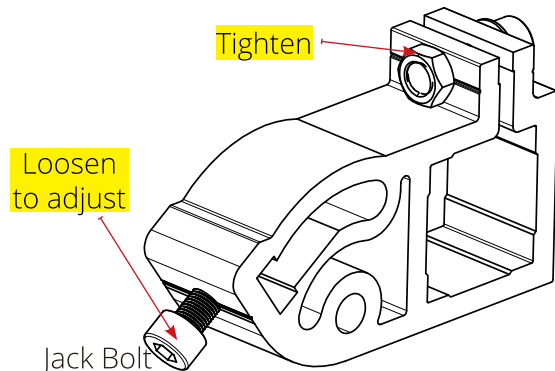
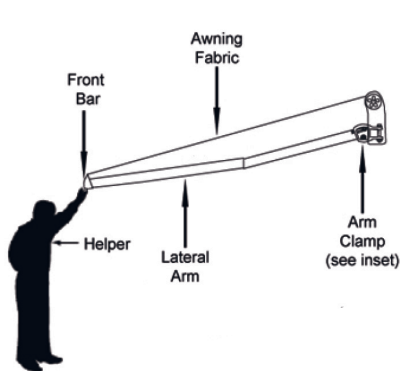
1. Now that the wall brackets are secure and in place, it is time to install the awning onto the brackets.
2. At least two ladders or sturdy chairs are required to install the awning.
3. Put the original expansion bolts on the wall brackets and tighten them.
4. Finally, fasten all expansion bolts.
5. Using the hand crank or a motor (if applicable), fully open your awning. The front bar should be level.
6. **Congratulations! Your awning is installed. If you are happy with the height of the front bar (awning pitch), sit back and enjoy! If not, please read on.**



😊 OPTIONAL INSTALLATION

ADJUSTING THE AWNING PITCH/ANGLE

Each awning comes with a pre-set pitch (angle) that is considered ideal. However, if you need to make an adjustment, it can be done in just a few easy steps.



!! IMPORTANT: Raising the front bar will reduce the pitch (angle) of the fabric, thus increasing the risk of rain water pooling on the fabric. To prevent the awning from collapsing due to rain water weight, you must retract the awning when unattended. Failure to do so could result in a broken awning or personal injury.

Note: Be sure that the front bar is adjusted to be completely even. Any misalignment will result in improper retraction.



REPAIR MANUAL

	CASE OF MALFUNCTION	REASON	REPAIR METHOD
1	The awning does not work when operated by the remote control.	<ol style="list-style-type: none">1. There is no power supply.2. The residual current automatic circuit breaker is turned to "off."3. The voltage is too low.	<ol style="list-style-type: none">1. Check the plug to see whether it is properly connected.2. Call a professional to inspect.3. Call a professional to inspect the voltage.
2	When operated by remote control, the awning does not work, although you can hear the signal sound from the remote control receiver.	<ol style="list-style-type: none">1. The remote receiver and motor are switched or the wire from the motor is disconnected.2. The motor switched off due to the overheat protection.	<ol style="list-style-type: none">1. Check two places: fasten pins, and the screws.2. The motor will automatically resume operation after approximately 20 minutes.
3	The fabric is loose, even though the awning is extended entirely.	The path length is incorrectly adjusted.	Readjust the path length according to the direction of the motor.
4	The cassette can't close completely.	The connecting position between the front bar and the front beam.	Adjust the position of the front beam until the cassette is entirely shut.
5	There is unwanted noise when operating the awning.	There is a loose screw.	Check all screws to ensure that they are tightly fastened.
6	When operated by a remote control, the indicative lamp does not work and there is no signal from the receiver.	<ol style="list-style-type: none">1. The cell is exhausted.2. The cell is disconnected.	<ol style="list-style-type: none">1. Replace with a new cell.2. Reset the cell.

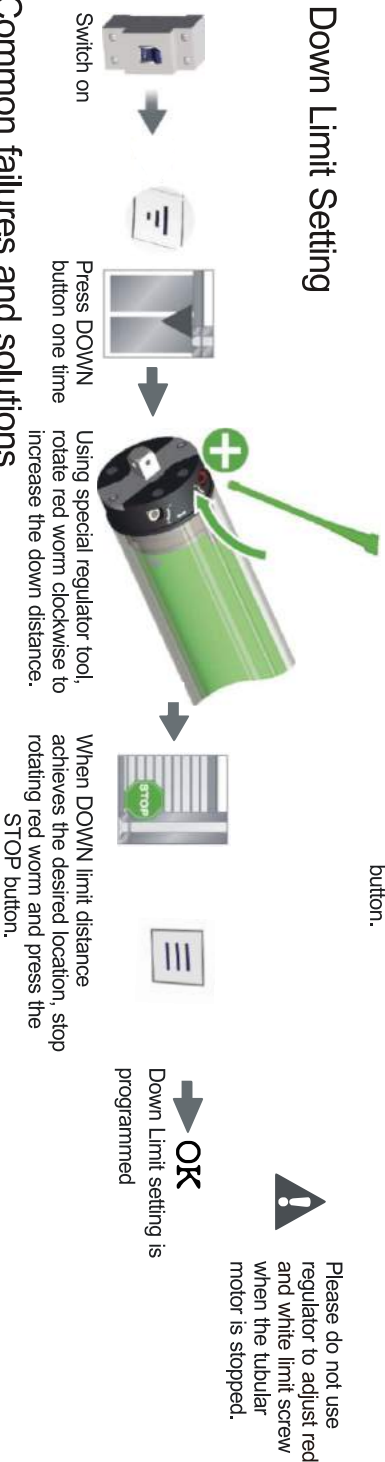
ALEKO Tubular Motor Instructions

AC Tubular Motor

1. Up Limit Setting



2. Down Limit Setting



3. Common failures and solutions

	Failure Symptoms	Failure Causes	Solutions Failure Recovery
1	Switch is on, the drive adapter runs in one-way operation	Inside limit switch of motor is not opening.	Adjust Red or White worm until Awning moves.
2	Motor starts slowly or does not work after power is connected.	a. Power voltage is low b. Wiring error c. Overload d. Improper installation	a. Adjust power to proper rating. b. Check circuit and correct wiring connections. c. Ensure rated torque is not being exceeded. d. Re-install the motor.
3	Motor stops suddenly after running	Motor has Overheated.	Motor will automatically resume after 20 minutes of cooling.
4	Abnormal sound, Roller binds during operation.	Tubular motor is overtightened to roller support.	If idler is active, slightly adjust screws attaching motor and roller support bracket to loosen.

ALEKO Tubular Motor Instructions

Attention

1. Motor Working Temperature: 14°-120°F

2. Operational Voltage: 110V



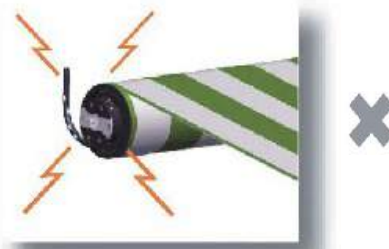
Do Not Expose Tubular Motor element to water at any time.



Do not pound the Tubular Motor into place.



Do not drill into the motor assembly for any reason.



Ensure Slack in the power Cord to allow moisture to run off before reaching electric motor.

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