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☐ INTRODUCTION

Thank you for purchasing ALEKO's Retractable Awning! We hope you will find joy in our product 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 installation 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 assistaince.

We believe that 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 **hello@aleko.com** or give us a call Monday through Friday, 7am-6pm PST at **(833) 926-2323.**

WARNINGS

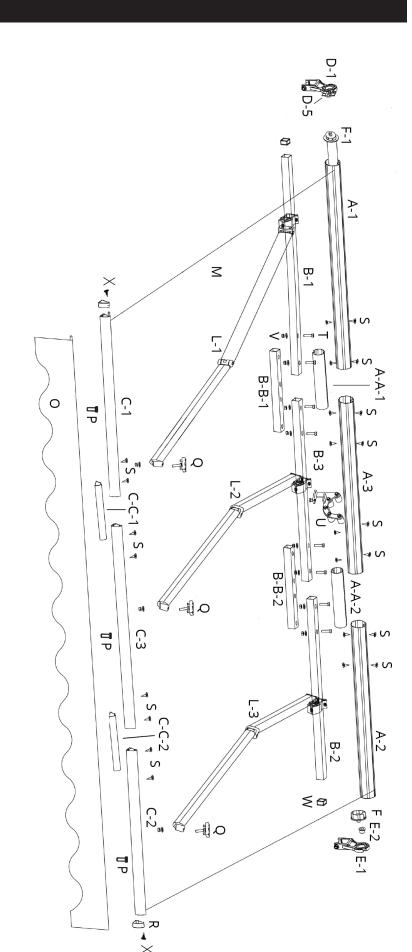
- Failure to follow these instructions can result in a broken product or personal injury. Please be attentive to each step.
- Open the awning packaging carefully to avoid damaging the product or yourself.
- DO NOT remove the safety wrap that secures the awning arms until instructed to do so. The awning arms will spring open and **can cause serious injury** if handled inappropriately.
- Be sure to install ALL screws for maximum security.
- Never install your awning in high, windy places. 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 installation.

X TOOLS REQUIRED FOR ASSEMBLY

- Measuring tape
- 2. Non-metallic mallet
- 3. Phillips screw driver
- 4. Power drill with 19 millimeter drill bit
- 5. 19 millimeter hex key

- 6. Ribbon tube spanner
- 7. Chalk line leveler
- Optional (to change awning pitch): 17mm wrench &
 14mm wrench (M10 and M12)
- 9. Two ladders or very sturdy chairs

C-2. Front bar (right) C-1. Front bar (left)



A-3. Roller (middle) A-2. Roller (right) A-1. Roller (left)

A-A-1. Roller connector (left)

A-A-2. Roller connector (right)

B-1. Torsion bar (left)

B-3. Torsion bar (middle) B-2. Torsion bar (right)

B-B-1. Torsion bar connector (left)

B-B-2. Torsion bar connector (right)

L-1. Left arm

F-1. Motor

F. Round shaft

E-2. Right shaft cover E-1. Right roller support

T. Bolt M6 x 45 S. Screws M4 x 15 R. Cover for front bar

D-5. Metal bracket for motor

D-1. Left roller support

C-C-2. Front bar connector (right) C-C-1. Front bar connector (left)

P. Blocker

O. Valence fabric (small piece)

M. Fabric (large piece)

Q. Arm bar link

C-3. Front bar (middle)

L-2. Middle arm

X. Long screws for front bar covers

W. Torsion bar cover V. Nuts and washers U. Center support

L-3. Right arm

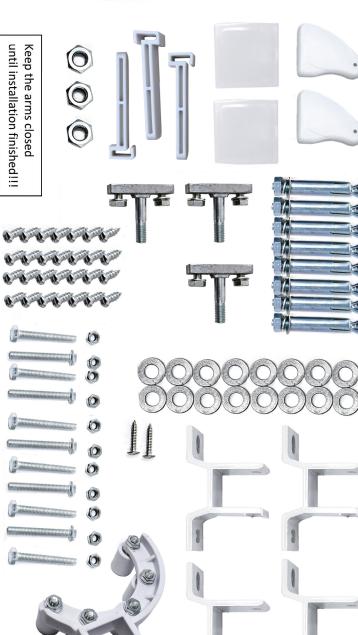
2

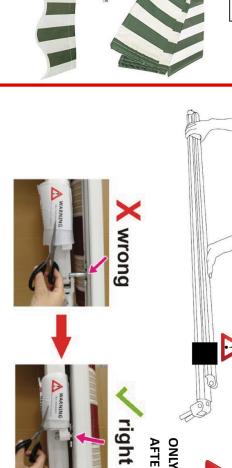
PACKING LIST



Thick -both for front bar Thin -for roller bar Fabric rod:







AWNING ARMS WILL CAUSE INJURY!

AFTER AWNING FULLY ASSEMBLED!!! ONLY CUT AWNING ARMS TAPES

ONLY CUT AFTER FULLY ASSEMBLED

WILL CAUSE INJURY!

ASSEMBLY

STEP 1: Preparing Your Work Space

1. Before you begin, it is best to lay out all necessary tools to make setup smoother. Consult the required tools section for the list of necessary tools.

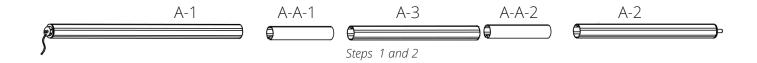


WARNING DO NOT remove the safety wrap that holds the awning arms down. Serious injury can result from removing the wrap too soon.

- 2. Open the awning box and unwrap each piece carefully to avoid damaging the product.
- 3. Lay out each piece of the awning to ensure that all pieces are present. Consult the parts diagram for detailed information regarding parts.
- 4. Open the small, inner box that contains the small parts and lay them out as well.

STEP 2: Connecting Roller Tubes

- 1. Gather the three long, silver roller tubes (A-1, A-2, A-3) and lay them in a line.
- 2. Also gather the two short, silver connector tubes (A-A-1, A-A-2) and lay one between A-1 and A-3, and the other between A-3 and A-2, as seen in the diagram below.



- 3. Insert the connector tube (A-A-1) into the interior end of the roller tube on the left (A-1). If insertion is difficult, use a mallet to tap it into place. One inserted, screw it into place.
- 4. Repeat this process on the other side; insert the other connector tube (**A-A-2**) into the interior end of the roller tube on the right (**A-2**).
- 5. At this time, the two connector tubes (A-A-1, A-A-2) will be connected to each of the outer roller tubes (A-1, A-2) and secured with screws. A portion of the connector pieces will stick out of the roller tubes.
- 6. Now, connect the third middle roller tube (A-3) to the portion of the connector tube (A-A-1) that is sticking out and screw it into place, just like in step 3.
- 7. Repeat this process on the other side; connect the other side of the roller tube (A-3) to the remaining connector tube (A-A-2).



8. At this time, you will have one full-length roller, with all three roller tubes connected and screwed securely into place, as seen in the diagram below.



STEP 3: Connecting Front Bars

- 1. Gather the three long, wedge-shaped front bars (C-1, C-2, C-3) and lay them in a line.
- 2. Also gather the two short, wedge-shaped connection pieces (C-C-1, C-C-2) and lay one between C-1 and C-3, and the other between C-3 and C-2, as seen in the diagram below.



- 3. Insert the connector piece (C-C-1) into the interior end of the front bar on the left (C-1). If insertion is difficult, use a mallet to tap it into place. Once inserted, screw it into place.
- 4. Repeat this process on the other side; insert the other connector piece (C-C-2) into the interior end of the front bar on the right (C-2).
- 5. At this time, the connector pieces (C-C-1, C-C-2) will be connected to each of the outer front bars (C-1, C-2) and secured with screws. A portion of the connector pieces will stick out of the front bars.
- 6. Now, connect the third remaining front bar (C-3) to the other side of the connector piece on the left (C-C-1) and screw it into place, just like in step 3.
- 7. Repeat this process on the other side; connect the other front bar (C-3) to the remaining connector piece (C-C-2).



8. At this time, you will have one full-length front bar, with all three front bar pieces connected and screwed securely into place.



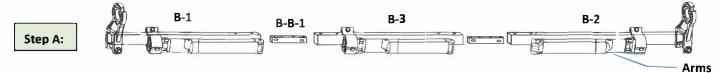
STEP 4: Connecting Torsion Bars

1. Gather the three white torsion bars (B-1, B-2, B-3) and lay them in a line.

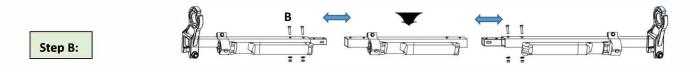


2. Also gather the two short, rectangular connection pieces (**B-B-1**, **B-B-2**) and lay one between **B-1** and **B-3**, and the other between **B-3** and **B-2**, as seen in the diagram below.

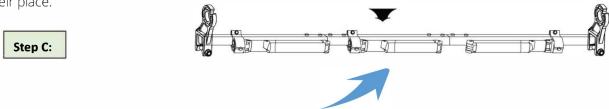
WARNING: ARMS WITH STRONG SPRINGS. DON'T CUT THE TAPE FOR ARMS.

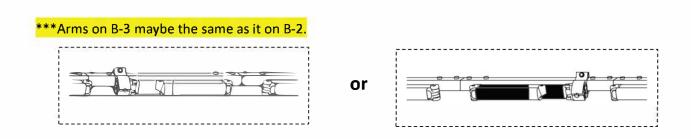


- 3. Insert the connector piece (**B-B-1**) into the interior end of the torsion bar on the left (**B-1**). If insertion is difficult, use a mallet to tap it into place. Once inserted, screw it into place.
- 4. Repeat this process on the other side; insert the other connector piece (**B-B-2**) into the interior end of the torsion bar on the right (**B-2**).
- 5. At this time, the rectangular connector pieces (**B-B-1**, **B-B-2**) will be connected to each of the outer torsion bars (**B-1**, **B-2**) and secured with screws. A portion of the connector pieces will stick out of the torsion bars.
- 6. Now, connect the third remaining torsion bar (**B-3**) to the other side of the connector piece on the left (**B-B-1**) and screw it into place, just like in step 3.
- 7. Please repeat this process on the other side; connect the remaining torsion bar (**B-3**) to the remaining connector piece (**B-B-2**).



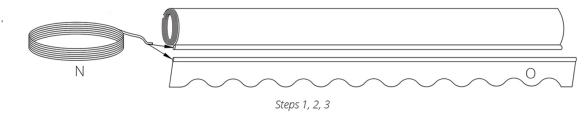
8. At this time, you will have one full-length torsion bar, with both arm pieces connected and screwed securely into their place.



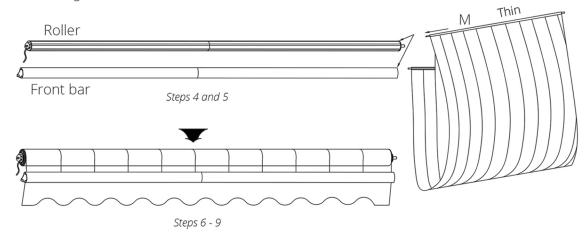


STEP 5: Fabric Assembly

- 1. Open the fabric box carefully to ensure that the product is not damaged.
- 2. Unfold both pieces of awning fabric. You should have one large fabric piece (M) and a valence with a scalloped edge (O). You should also have three fabric liner cords, two thick and one thinner (N).
- 3. Thread the fabric liner, one thick and one thin, through both ends of the large awning fabric (**M**). This may be a slow process and is easiest with two people.

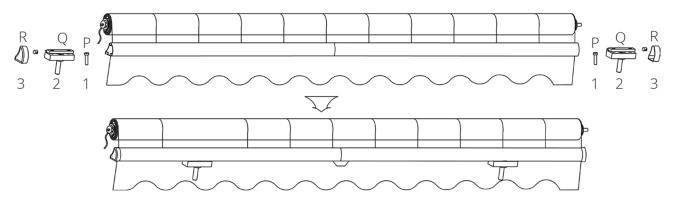


- 4. Once the liner is threaded through the large fabric, find the roller tube. Thread the fabric and its liner through the slot/notch in the roller tube all the way to the end. Note: the fabric has a front and a back. The back side has a hem, and should face downwards.
- 5. Now thread the other end of the awning fabric through the slot/notch in the front bar (wedge-shaped piece).
- 6. Once both sides of the large awning fabric are threaded, with one person on each side, pick up the roller tube.
- 7. Roll the awning fabric counterclockwise around the roller tube as tightly and evenly as possible.
- 8. Once fully rolled, place the roller tube back on the ground.
- 9. Finally, thread the valance (**O**) through the other slot/notch in the wedge-shaped front bar all the way to the end, as seen in the diagram.



STEP 6: Front Bar Wrist Support Assembly

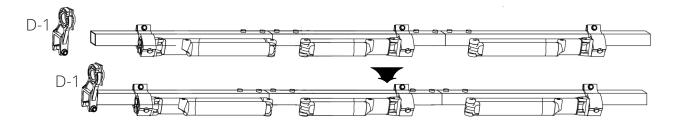
- 1. Slide the blocker (P) and the arm bar link (Q) into the wedge-shaped front bar through the large trough/slot.
- 2. Put both the left and right plastic covers (R) on each end of the front bar.
- 3. Tighten the screws on the covers to lock the fabric into position.



STEP 7: Left Roller Support Assembly

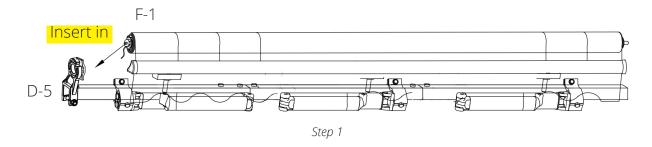
NOTE: Your awning will come with the roller support attached. Refer to this step if installing a replacement part. Otherwise, proceed to step 8.

- 1. With a mallet or hammer, tap the left roller support (**D-1**) with the motor bracket into the torsion bar.
- 2. Tighten the bolt inside of the roller support with a wrench.

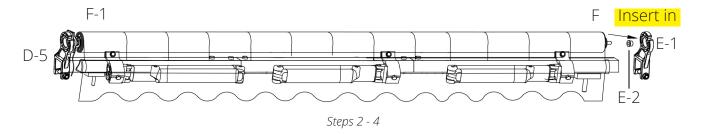


STEP 8: Roller Support Assembly

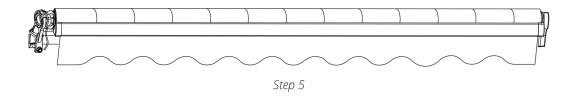
1. Find the motor (F-1) located in the roller tube. Insert this into the motor bracket (D-5), as shown in step 1 on the diagram below.



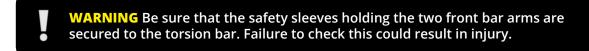
- 2. Using a mallet, knock the round shaft cover (E-2) into the right roller support (E-1).
- 3. Now, link the roller support into the round shaft (F).
- 4. Use a wrench to tighten the roller support.



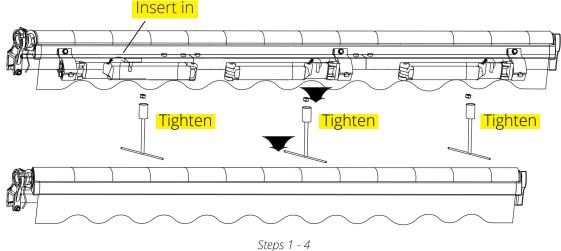
5. At this point, the roller tube and the roller support will be fully secured together, as shown on the diagram below.



STEP 9: Setting Awning Position

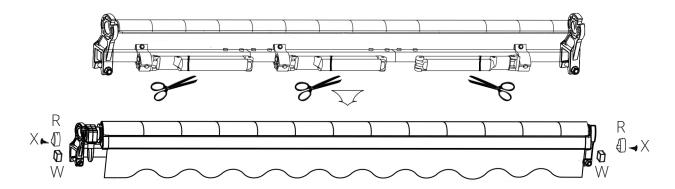


- 1. Move the blocker to the middle of the arms and fasten.
- 2. Then, move the arm bar link until the front bar wrist support is connected through it.
- 3. Align the front bar and the arm, and tighten the self locking nut upwardly with a screwdriver.
- 4. Then, tighten the adjustable bolt up to 90% tight using a ribbon tube spanner (as seen below).



STEP 10: Finishing Awning Assembly

1. At this point, it is safe to cut the safety sleeves that hold the arms and torsion bar down. Awning assembly is complete!





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.

2. Now, proceed to the wall mounting section.

MINSTALLATION

Notes About Wall Mounting

This awning can be secured to reinforced concrete, brick, and wood, however this awning kit only supplies screws suitable for mounting to brick and reinforced concrete walls.

If you wish to secure your awning to wood, please use carriage bolts of adequate length and of an appropriate diameter to secure the awning to wood beams. The bolt size depends on the size of wood; these can be purchased at a hardware store. We recommend a professional installer for the safest and most secure installation.

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



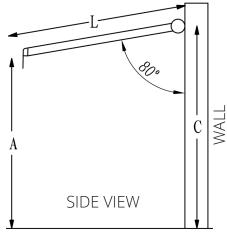
CAUTION: Proper location of the brackets is the most important aspect of the awning installation. It is critical that you fasten all the mounting brackets to studs, joists, headers or other major structural components.



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

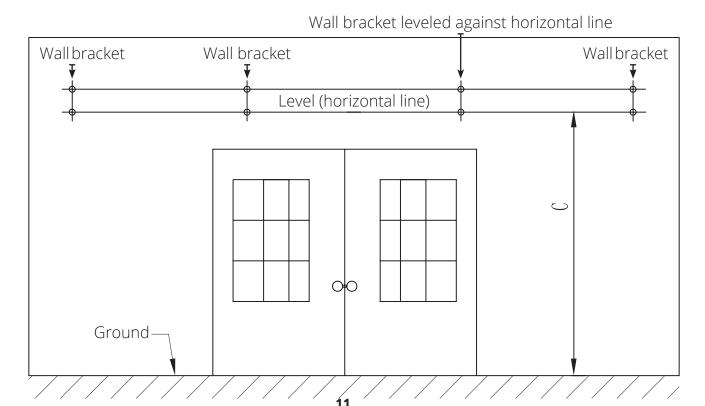
L = The length of the arm stretched out

C = The height of the wall brackets

Awnings < 10.8 Feet	Requires only 2 wall brackets total: one for each end of the torsion bars.
Awnings 10.8 - 14 Feet	Requires 3 wall brackets total: one for each end, and one in the middle.
Awnings 14.5 - 20 Feet	Requires 4 wall brackets total: one for each end, and two in the middle.

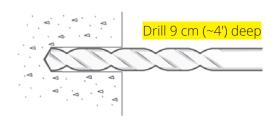
STEP 1: Measuring the Mount Site

- 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.

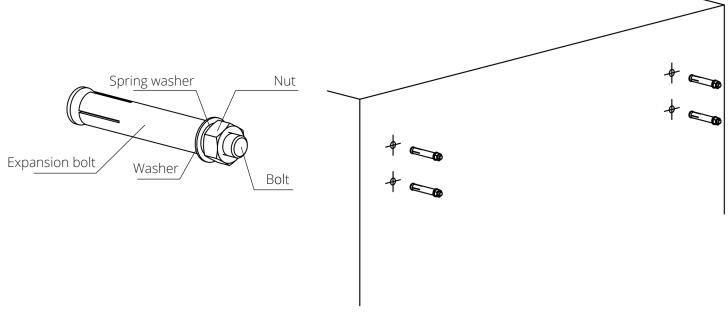
STEP 3: Preparing For Mounting

- 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.



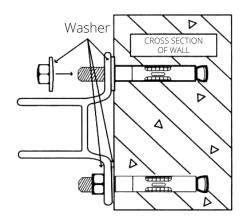
If a mallet is necessary for installation, we recommend placing the nut on the screw (loosely) before hammering to avoid damaging the bolt threads.

- 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.



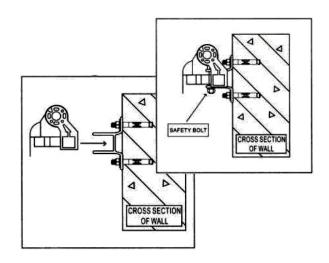
STEP 4: Mounting the Wall Brackets

- 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 below.
- 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

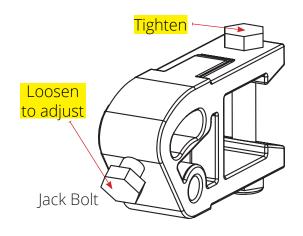
ADJUSTING THE AWNING PITCH/ANGLE

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.

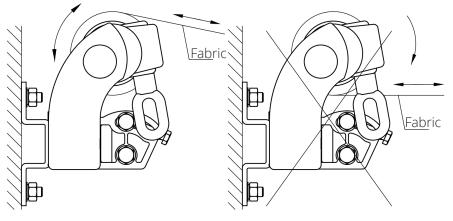
Note: Be sure that the front bar is adjusted to be completely even. Any misalignment will result in improper retraction.



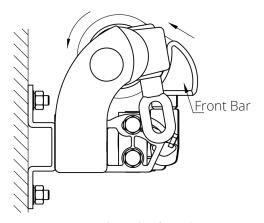
IMPORTANT: Raising the front bar will reduce the pitch (angle) of the fabric, thus increasing the risk of rain water pooling on the fabric. To prevent the awning from collapsing due to rain water weight, you must retract the awning when unattended. Failure to do so could result in a broken awning or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



Common mistakes







WARNING: When the front bar touches the roller as shown in the figure, don't try to make them closer, otherwise the product may be damaged.

4	₹ REPAIR MANUAL					
	CASE OF MALFUNCTION	REASON	REPAIR METHOD			
1	The awning does not work when operated by the remote control.	 There is no power supply. The residual current automatic circuit breaker is turned to "off." The voltage is too low. 	 Check the plug to see whether it is properly connected. Call a professional to inspect. 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.	 The remote receiver and motor are switched or the wire from the motor is disconnected. The motor switched off due to the overheat protection. 	 Check two places: fasten pins, and the screws. The motor will automatically resume operation after approx- imately 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.	 The cell is exhausted. The cell is disconnected. 	 Replace with a new cell. Reset the cell. 			

REPLACEMENT PARTS AND ACCESSORIES



ALEKO AC TUBULAR MOTOR

Upgrade your awning by installing a convenient, easy to use motor. With the touch of a button, your awning will expand and retract to your desired length in under a minute.

- Easy to install. Motor opens and closes retractable awning with a remote (included).
- Comes with a programmed remote control and 18' cord with plug.
- UL-Approved. Rated Power: 205 W.
- Terrific value!

You can find these products at www.ALEKOProducts.com



FABRIC REPLACEMENT



REMOTE CONTROL



VERTICAL SUPPORT ARMS



WIND-SUN SENSOR



CEILING BRACKET



AWNING SHADE NET

MOTOR INSTALLATION

Left Facing Mounted Motor

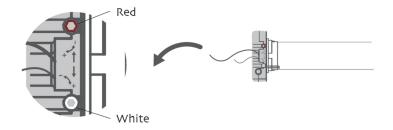
Pair AWRC with DM45R

- 1.Disconnect the power,wait for 10s, reconnect the power,the awning will jog once,beep once.
- 2.Press P2 on the remote once, the awning will beep once.
- 3.Press P2 on the remote once again, the motor will beep again.
- 4.Turn the remote immediately and press DOWN button on the remote, the awning will jog once and beep several times. The remote is paired with the motor.
- 5. Press Up button on the remote, the awning shall be retracted.

Attention: The interval between the steps in step 1 to 4 shall not be longer than 6s, otherwise the motor will exit the setting mode.

Trouble shooting tips: If you did not hear the awning beeps or jogs, it is probably because the awning did not "hear" it, you may repeat the step to make sure the awning feedbacks.

• Motor Head View on left-mount



Set Deploy Position					
6. Press DOWN button on the remote	6.1 If the awning automatically stops before demanded position.	Turn the white worm towards "+",you will move the awning directly to the demanded position	The state of the s		
	6.2 If awning did not stop, it means the motor travel is too long,need to make it shorter.	Turn the white worm towards "-", keep checking if the awning can stop at the demanded position to see if the travel is shortened enough. If the travel is over-shorted,turn the white worm towards "+".			
Set Retract Position (It is suggested to be set 2cm away from the tube)					
7. Press UP	7.1 If the awning automatically stops before awning closes	Turn the red worm towards "+",you will move the awning bottom bar 2cm away from the tube.	The state of the s		
button on the remote	7.2 If awning did not stop, it means the motor travel is too long,need to make it shorter.	Turn the red worm towards "-", keep checking if the awning can stop 2cm from the tube,to see if the travel is shortened enough. If the travel is over-shorted,turn the red worm towards "+".			

MOTOR INSTALLATION

Right Facing Mounted Motor

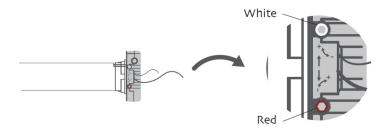
Pair AWRC with DM45R

- 1.Disconnect the power,wait for 10s, reconnect the power,the awning will jog once,beep once.
- 2.Press P2 on the remote once, the awning will beep once.
- 3. Press P2 on the remote once again, the motor will beep again.
- 4.Turn the remote immediately and press UP button on the remote, the awning will jog once and beep several times. The remote is paired with the motor.
- 5. Press Up button on the remote, the awning shall be retracted.

Attention: The interval between the steps in step 1 to 4 shall not be longer than 6s, otherwise the motor will exit the setting mode.

Troubleshooting tips: If you did not hear the awning beeps or jogs, it is probably because the awning did not "hear" it, you may repeat the step to make sure the awning feedbacks.

• Motor Head View on Right-mount

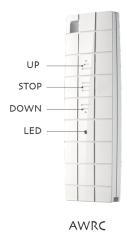


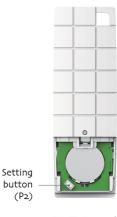
Set Deploy Position					
6. Press DOWN button on the remote	6.1 If the awning automatically stops before demanded position.	Turn the red worm towards "+",you will move the awning directly to the demanded position.			
	6.2 If awning did not stop, it means the motor travel is too long,need to make it shorter.	Turn the red worm towards "-", keep checking if the awning can stop at the demanded position to see if the travel is shortened enough. If the travel is over-shorted,turn the red worm towards "+".			
Set Retract Position (It is suggested to be set 2cm away from the tube)					
7. Press UP	7.1 If the awning automatically stops before awning closes	Turn the white worm towards "+",you will move the awning bottom bar 2cm away from the tube.			
button on the remote	7.2 If awning did not stop, it means the motor travel is too long,need to make it shorter.	Turn the white worm towards "-", keep checking if the awning can stop 2cm from the tube,to see if the travel is shortened enough. If the travel is over-shorted,turn the white worm towards "+".			

MOTOR INSTALLATION



Type Specification





AWRC Back



Technical Support

AWRC series: AWRC

- Input voltage: DC3V/CR2430 (AWRC)
- Emission Power: 10 milliwatt
- Work temperature:-10°C -50°C
- Emission distance: open 200m two walls 30m



Pair Additional Remote

One motor can be paired to 20 remotes/sensors in total, follow below steps to add a new remote



P2(a)

P2(a) P2(b)

Press P2 (1 beep and 1 jog) and P2 (1 beep and 1 jog) on existing emitter, press P2 on new emitter to add (beeps multiple and 1 jog), new emitter is paired to the motor.



Remove All Remotes

Additional Function



P2

STOP

Press P2 (1 beep and 1 jog), STOP (1 beep and 1 jog), and P2 (beeps multiple and 1 jog), all emitters are deleted.

Awning Accessories

Accessories do not come with this kit and are available to purchase on ALEKO.com.



Wired Wind and Sun Sensor



Wireless Solar Powered Wind and Sun Sensor



AC Tubular Motor for Retractable Awnings



Protective Awning Cover



Retractable Awning Fabric Replacement



Replacement Right Arm

RV Awning Accessories



RV Awning Fabric Replacement



DC Manual Tubular Motor

