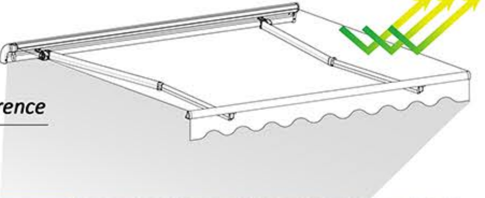
Mcombo-Sun Awning

MCombo



Please read carefully
before use and keep for future reference

CONTACT INFORMATION

Tell Free(US) : 8886783765
Website : www.mcombo.com
Warranty Claim : sales@mcombo.com
Sales & Technical Questions : sales@mcombo.com

Congratulations!

Mcombo Awning — a name synonymous with classic design and the carrier of value and quality. Our products are directly from factory and eliminated the cost of middlemen. The Manual Retractable Awning is a high-quality shading solution to enhance comfortable feelings as you try to enjoy the nice day.

Warranty Information

Limitations Applicable to All Warranties

① All warranties are to the original purchaser from MCOMBO ONLY®

② **MCOMBO®** will replace the defective parts or send replacement item provided that the warranty parts have not been subjected to misuse, abuse or improper service by the consumer, for example, damaged wire arising in consequence of negligence or improper operation.

③ Exclusions also include components with damage caused by:
- Contamination
- Abuse, misuse, accident, or negligence
- Commercial use, or use other than normal
- Improper operation, maintenance, or storage

MCOMBO® will pay standard shipping rates on all warranted parts for the first year. We can also sell you replacement part for discount price when your item is out of warranty policy.

Return/Replacement Policy

MCOMBO® All of item come with a 30-day return/replace policy. During this time, we will cover the shipping cost of return and replacement for defective and damaged item, through provide pre-paid return label or pick up service for customer’s convenience.

Please disassemble the item before you return it, unless there will be huge cost as oversized

MCOMBO® do not responsible for the returns that customer bought by mistake or changed their mind and other non-quality issues.The customer is responsible for freight costs unless the item is defective. Items returned due to being refused by the customer or deemed undeliverable by freight carrier are subject to fees for freight both ways and a 15% restocking fee.

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WARNING

FOR YOUR OWN SAFETY, PLEASE FOLLOW THE INSTRUCTIONS IN THE MANUAL CLOSELY, ASFAILURE TO DO SO MAY RESULT IN PERSONAL INJURY!

Before you proceed, please read the following safety precautions

⚠ As the elasticity is very strong on arms, please tie arms together when assembling awning. Do not stand face front of awning when cutting off binds between arms. Hold tightly and stretch slowly until completely open.

⚠ Also proper location and fastening of the wall brackets is critical, please follow instructions in the manual. Failure to securely fasten all brackets could result in the collapse of the awning and cause personal injury or death.

⚠ The Mcombo awning should only be operated by an adult that understands all the functions and operations of the awning. Please keep unsupervised children away from playing with the awning or its parts.

⚠ The product should be used only as described in this Mcombo awning manual. Do not carry out any maintenance other than what is shown in this manual. For any issues that are not covered in this manual, please seek support from Mcombo Customer Service.

Safe installation and operation

◎ Never install it in high and windy places, as the sunshade may drop and hurt someone
◎ Don’t use it in places that have vibrations or impulsions
◎ Don’t use it in places of high temperature such as walls near furnaces.
◎ Don’t put heavy things on the frame as it may fall down and cause damages.
◎ Do not place any heat source or open flame under or near the awning.
◎ Do not place, hang, or stand objects or persons on the awning itself, doing so can damage the awning or cause severe personal injury and in extreme cases death
◎ Please close the sunshade in windy and rainy days
◎ Never use it for other purposes other than suggested
◎ Be careful with your fingers during installation.
◎ Two adults are needed to move and install the sunshade as the product is big and heavy.
◎ Please use all the screws and nuts correctly during installation as it is very dangerous if you leave it loose.

DO NOT keep the awning open during:
A: RAIN
B: SNOW
C: STRONG WIND
D: AWAY FROM HOUSE

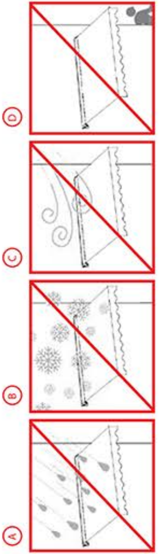
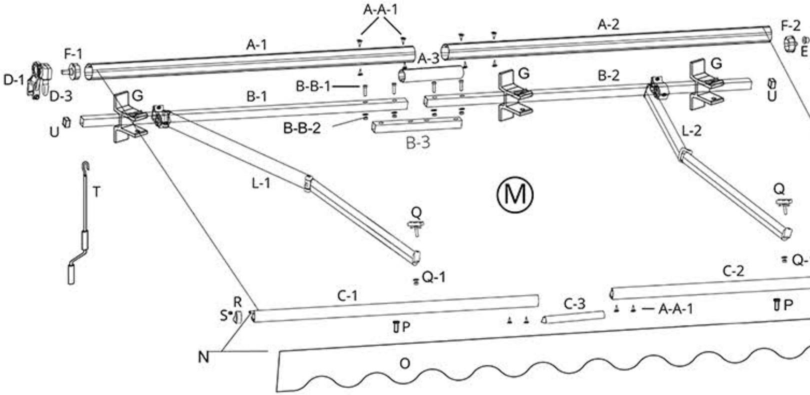


Fig.2

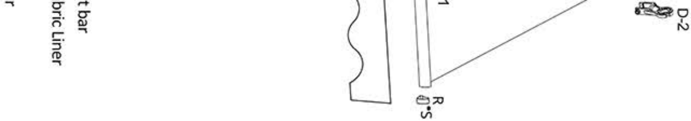
PARTS DIAGRAM



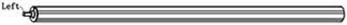
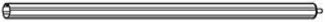
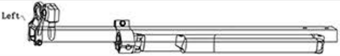
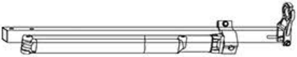
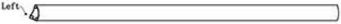
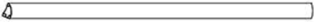
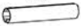
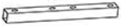
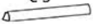
A-1. Roller (left)
A-2. Roller (right)
A-3. Roller connector
A-A-1. Screws M4 x 15
B-1. Torsion bar (left)
B-2. Torsion bar (right)
B-3. Torsion bar connector
B-B-1. Bolt M6 x 45
B-B-2. Nut M6+Washer ⌀6
C-1. Front bar (left)

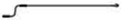
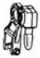
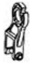
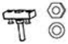
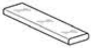
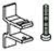
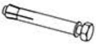
C-2. Front bar (right)
C-3. Front bar connector
D-1. Left Roller support
D-2. Right Roller support
D-3. Gear box
E. Round shaft cover
F-1.Left Round shaft
F-2.Right Round shaft
L-1. Left arm
L-2. Right arm

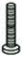
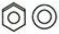
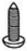
M. Fabric
N. Fabric line
O. Valance
P. Blocker
Q. Arm-bar Link
R. Plastic cover for fron
S. Screw for Cover & Fa
T. Hand Crank
U. Cover for Torsion Ba
G. Wall bracket



LIST OF THE PART

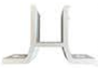
Item	Name	picture	quantity
A-1	Roller(left)		1
A-2	Roller(right)		1
B-1 +L-1	Torsion bar with arm(left)		1
B-2 +L-2	Torsion bar with arm(right)		1
C-1	Front bar(left)		1
C-2	Front bar(right)		1
		A-3  B-3  C-3 	1
N	Cloth guiding wire		3

Item	Name	picture	quantity	Item	Name	picture	quantity
T	Hand crank		1	D-1 D-3	Gear box with left roller support		1
D-2	Roller support(right)		1	Q Q-1	Arm Link Nut M10+ Washer Ø10		2
M+O	Fabric +Valance		1	G G-1	Wall bracket Bolt M8 X 60		2 (10'x8' series) 3 (13'x8', 12'x10' series)
H	Expansion bolt		4 (10'x8' series) 6 (13'x8', 12'x10' series)	P	Blocker		2

R	Plastic Cover of front bar		2	U	Plastic Cover of torsion bar		2
F-1	Left Round shaft		1	F-2	Right Round shaft		1
B-B-1	Bolt M6x45		4	A-A-1	Screws M4 x 15		12
B-B-2	Nut M6+ Washer Ø6		4	S	Screw for Cover & Fabric Liner		2

/6

Hardware Packs



x3 Wall Bracket
(1210&1308series)

x2 Wall Bracket
(0810series)

x6 Expanding Bolt
(1210&1308series)

x4 Expanding Boltt
(0810series)

x2 Bolt M8 x60+x4 Bolt M8+washer Ø8
(1210&1308series)

x3 Bolt M6 x45+x6 Bolt M6+washer Ø6
(0810series)

x4 Bolt M6 x45+x8 Bolt M6+washer Ø6
(1210&1308series)

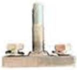
x4 Bolt M6 x45+x8 Bolt M6+washer Ø6
(0810series)

x8 Fixing Screw M4x15
(1210&1308series)

x8 Fixing Screw M4x15
(0810series)

x2 Plastic Cover
(1210&1308series)

x2 Plastic Cover
(0810series)



x2 Arm Bar Link
(1210&1308series)

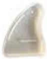
x2 Arm Bar Link
(0810series)

x2 Bolt M10+washer Ø10
(1210&1308series)

x2 Bolt M10+washer Ø10
(0810series)

x2 Blocker
(1210&1308series)

x2 Blocker
(0810series)



x2 Plastic
(1210&1308series)

x2 Plastic
(0810series)

x2 Fixing Screw M8x20
(1210&1308series)

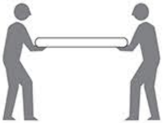
x2 Fixing Screw M8x20
(0810series)

x4 Fixing Screw M4x15
(1210&1308series)

x4 Fixing Screw M4x15
(0810series)

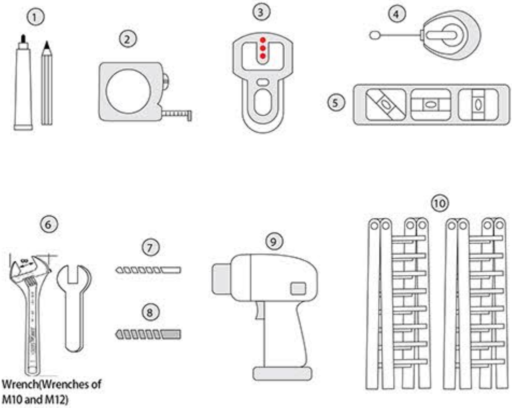
TOOL REQUIREMENTS

Minimum 2 people to install



SUGGESTED TOOLS

① Marker / pencil
② Measuring tape
③ Electronic Stud finder
④ Chalk line / laser level
⑤ Level
⑥ wrench
⑦ Drill bit
⑧ Masonry drill bit
⑨ Power drill
⑩ Ladders (2)



Wrench(Wrenches of M10 and M12)

Fig.4

INSTALLATION

STEP 1: Preparing Your Work Space

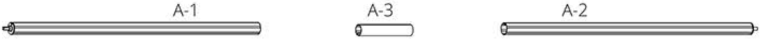
1. Before you begin, it is best to lay out all necessary tools to make setup smoother. Consult the required tools section for the list of necessary tools.

> ! **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

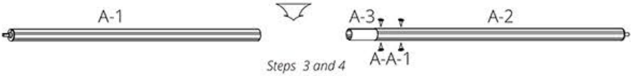
1. Gather the two long, roller tubes (**A-1** and **A-2**) and lay them in a line.
2. Also gather the one short, connector tube (**A-3**) and lay it between the two roller tubes, as seen in the diagram below.



Steps 1 and 2

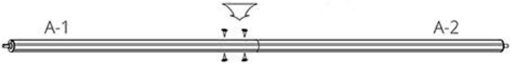
3. Insert the connector tube (**A-3**) into the interior end of the roller tube (**A-2**). If insertion is difficult, use a mallet to tap it into place. One inserted, screw (**A-A-1**) it into place.

4. At this time, the connector tube (**A-3**) will be connected to one of the two roller tubes (**A-2**) and secured with screws. A portion of the connector piece will stick out of the roller tube until step 5.

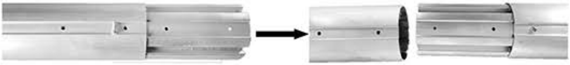


Steps 3 and 4

5. Now, connect the second remaining roller tube (**A-1**) to the other side of the connector tube (**A-3**) and screw it into place, just like in step 3.
6. At this time, you will have one full-length roller, with both roller tubes connected and screwed securely into place.

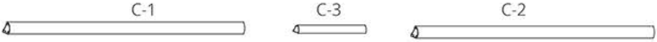


Steps 5 and 6



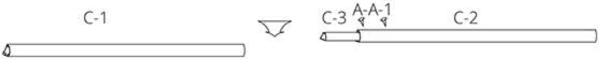
STEP 3: Connecting Front Bars

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

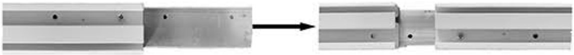


Steps 1 and 2

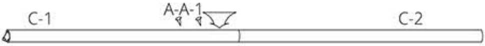
3. Insert the connector piece (**C-3**) into the interior end of the front bar (**C-2**). If insertion is difficult, use a mallet to tap it into place. Once inserted, screw it into place.
4. At this time, the connector piece (**C-3**) will be connected to one of the two front bars (**C-2**) and secured with screws. A portion of the connector piece will stick out of the front bar until step 5.
5. Now, connect the second remaining front bar (**C-1**) to the other side of the connector piece (**C-3**) and screw it into place, just like in step 3.



Steps 3, 4, 5



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



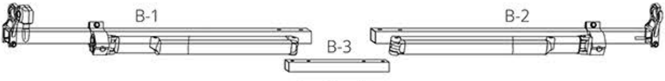
Step 6

STEP 4: Connecting Torsion Bars

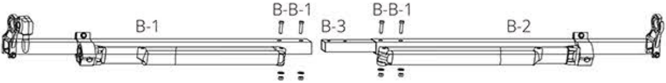
1. Gather the two white torsion bars (**B-1** and **B-2**) and lay them in a line.

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

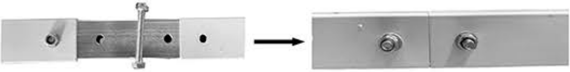
2. Also gather the one short, rectangular connection piece (**B-3**) and lay it between the two torsion bars, as seen in the diagram below.



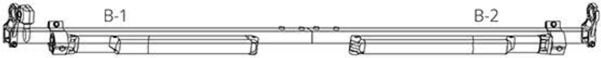
3. Insert the connector piece (**B-3**) into the interior end of the front bar (**B-2**). If insertion is difficult, use a mallet to tap it into place. Once inserted, screw it into place (**B-B-1**).
4. At this time, the rectangle connector piece (**B-3**) will be connected to one of the two torsion bars (**B-2**) and secured with screws. A portion of the connector piece will stick out of the torsion bar until step 5.
5. Now, connect the second remaining torsion bar (**B-1**) to the other side of the connector piece (**B-3**) and screw it into place, just like in step 3.



Steps 3, 4, 5



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

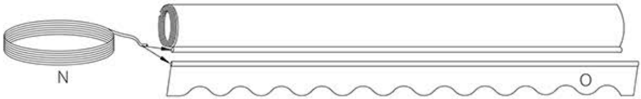


Step 6

STEP 5: Fabric Assembly

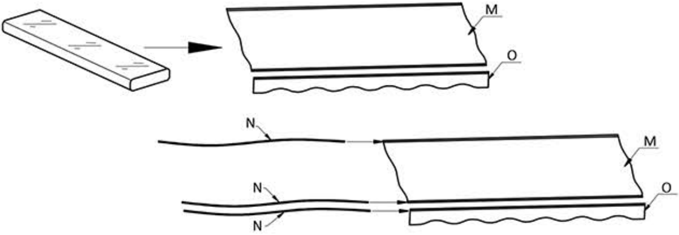
1. Open the fabric box carefully to ensure that the product is not damaged.

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.



Steps 1, 2, 3

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.

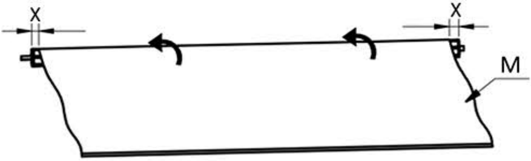


Roll in the fabric on the roller

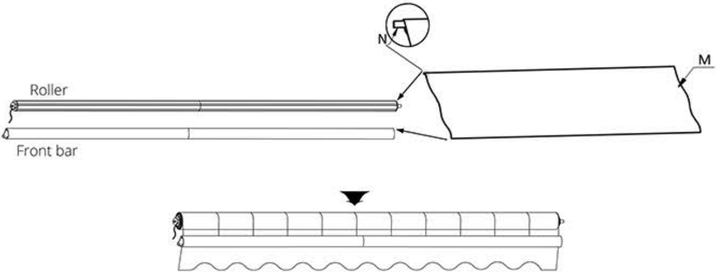
Roll in the fabric on the roller, pay attention to the fabric direction needed, as shown in the figure below:

Please attention to downword the fabric when assembling. Keep the same spacing X at both ends.

Spread the fabric slowly in case of damage.

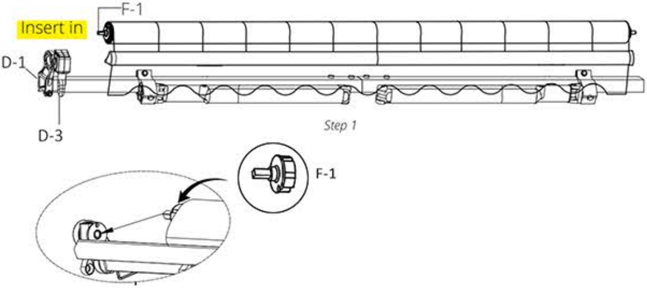


One end of fabric through the groove of roller bar, well-distributed the fabric after pull in all fabric, then insert shaft of roller into the square hole of gear case. As shown in the figure below.



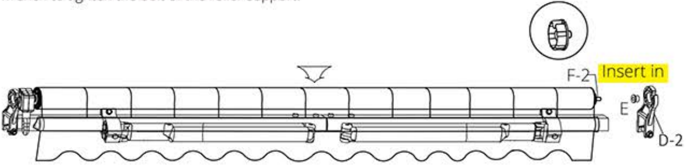
STEP 6: Roller Support Assembly

1. Find the inner round shaft (**F-1**) located in the roller tube. Insert this into the square hole of the gear box, as shown in step 1 on the diagram below.



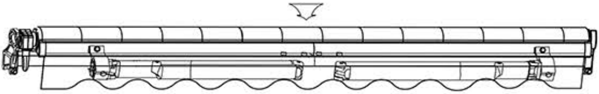
2. Using a mallet, knock the round shaft cover (**E**) into the right roller support (**D**).

3. Now, link the roller support into the round shaft (**F-2**) using a mallet to tap it into place.
4. Use a wrench to tighten the bolt of the roller support.



Steps 2, 3, 4

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

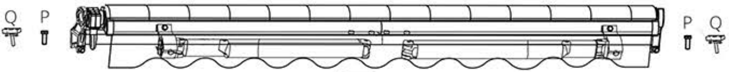


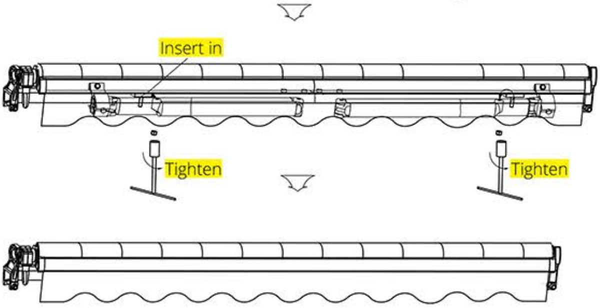
Step 5

STEP 7: Front Bar & Arm Assembly

> ! **WARNING** Be sure that the safety sleeves holding the two front bar arms are secured to the torsion bar. Failure to check this could result in injury.

1. Put the arm bar link (**Q**) and the blocker (**P**) into the front bar (wedge shaped piece).
2. Move the blocker (**P**) to the middle of the arms.
3. Move the arm bar link (**Q**) until it connects with the arm's hole.
4. Align the front bars and the arms.
5. Using a Phillips screwdriver, tighten both bolts upwardly.
6. Fasten the arm bar's self locking nut to the front bar tightly, using a ribbon tube spanner.
7. Lastly, place the blocker (**P**) in the center of the two arms and fasten it.

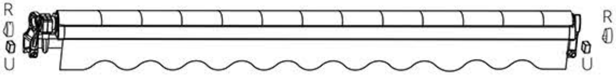




Steps 1-7

STEP 8: Finishing Awning Assembly

1. Tap the front bar caps (**R**) and the torsion bar caps (**U**) into place.



ⓘ *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.*

3. Now, proceed to the wall mounting section.

INSTALLATION

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.

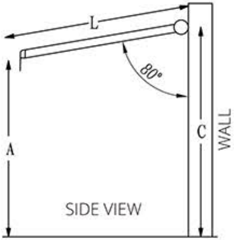
Never attempt to secure the wall brackets to loose wall stones or any surfaces that are not absolutely firm!

⚠ **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

INSTALLATION

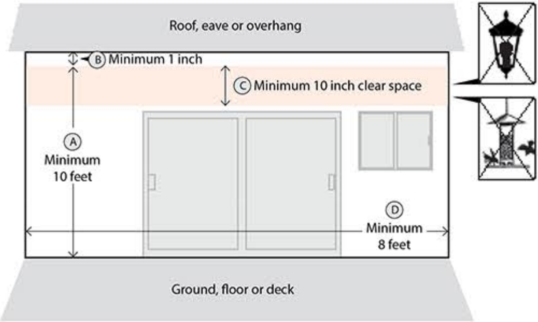
DETERMINE WHERE TO INSTALL YOUR AWNING

Locate a position that is

Ⓐ At least 10 feet above the ground/floor/deck.

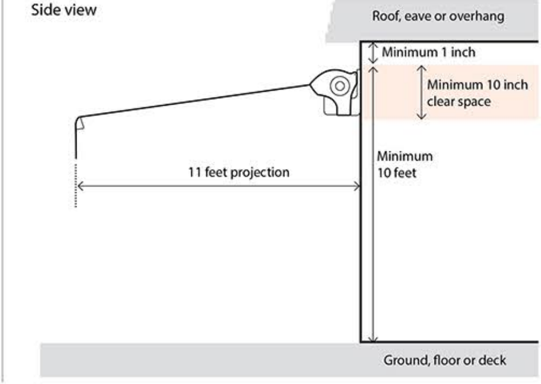
Ⓑ Minimum 1 inch clearance below the roof/eave/overhang.

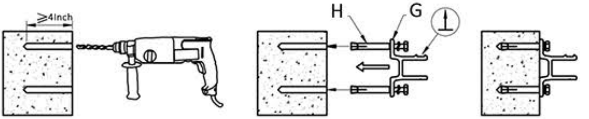
Ⓒ With at least 10 vertical inch of clear space.



The surface should be free and clear of any obstructions along the entirety of the awning.

Ⓓ Minimum 8 feet width.

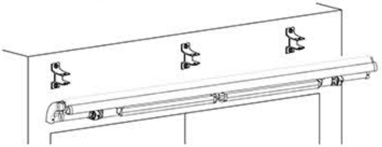




Installing the brackets

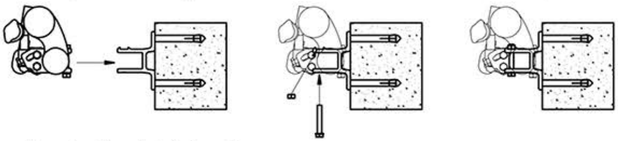
Drill the hole according to the line which was draw up by 14mm wall drill, please pay attention to the deep of hole that should not be less than 4inch. Making the expansion bolt through the bracket(keep the barbed side up), hitting the expansion bolt into the hole with tighten by wrench. As shown in the figure.

5.Install the awning on the wall brackets according to “Installation distances between wall brackets” above, put the original bolts on the wall brackets and tighten them. Finally fasten all expansion bolts.

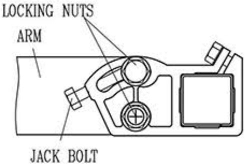


Installing the awning:

Install the awning into the brackets, and fasten the bolts of the brackets. As shown in the figure below.



Instruction for front side leveling



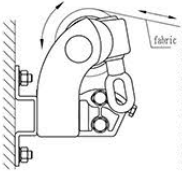
① Loosen the locking nuts.

② Turn the jack bolt to adjust pitch

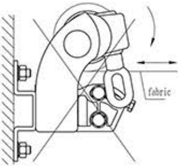
③ Adjust the arm until the front side stays in horizontal line.

④ Tighten the locking nuts.

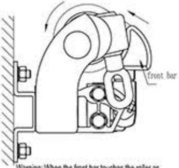
Common Mistakes



Correct operation

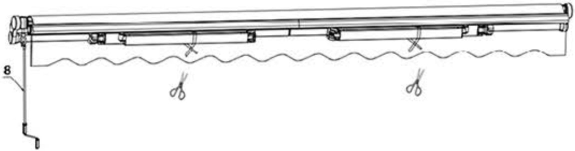


Wrong operation



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

Open the arms

After locking the awning, please close the awning by hand crank, then cut the strings which raping the arms.