



Regal

Semi Cassette & Full Cassette

Product Reference Guide

Rainier Shading
1760 Route 211 East
Middletown, NY 10941
(800) 501.3850

Version 5.25

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SEMI CASSETTE UNIT

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FULL CASSETTE UNIT

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Application: Ultra Premium grade/residential use

In Production Since: 2022

Standard Operation: Sunea RTS Override motor

Optional Operation: Altus RTS Motor

Widths: Up to 23'0" wide (in 1/4" increments)

Projections: 8'2", 10'6", 11'6", 13'0" projections

Hardware Color Options: Alpine, Onyx, Walnut, and Sierra

Arm Tension System: Concealed 11 cable ART belt system tested to 60,000 cycles

Torsion Bar: 40mm Aluminum

Mounting Options: Wall, Soffit, and Roof

Cross Arm Option: Not Available

Drop Shade Option: Up to 23'0" wide x 11'6" projection

Unique Features to other Rainier Units: Semi and Full Cassette options available

Frame Warranty*: Lifetime

Fabric Warranty*: 12 years

Motor/Electronics Warranty*: 8 years

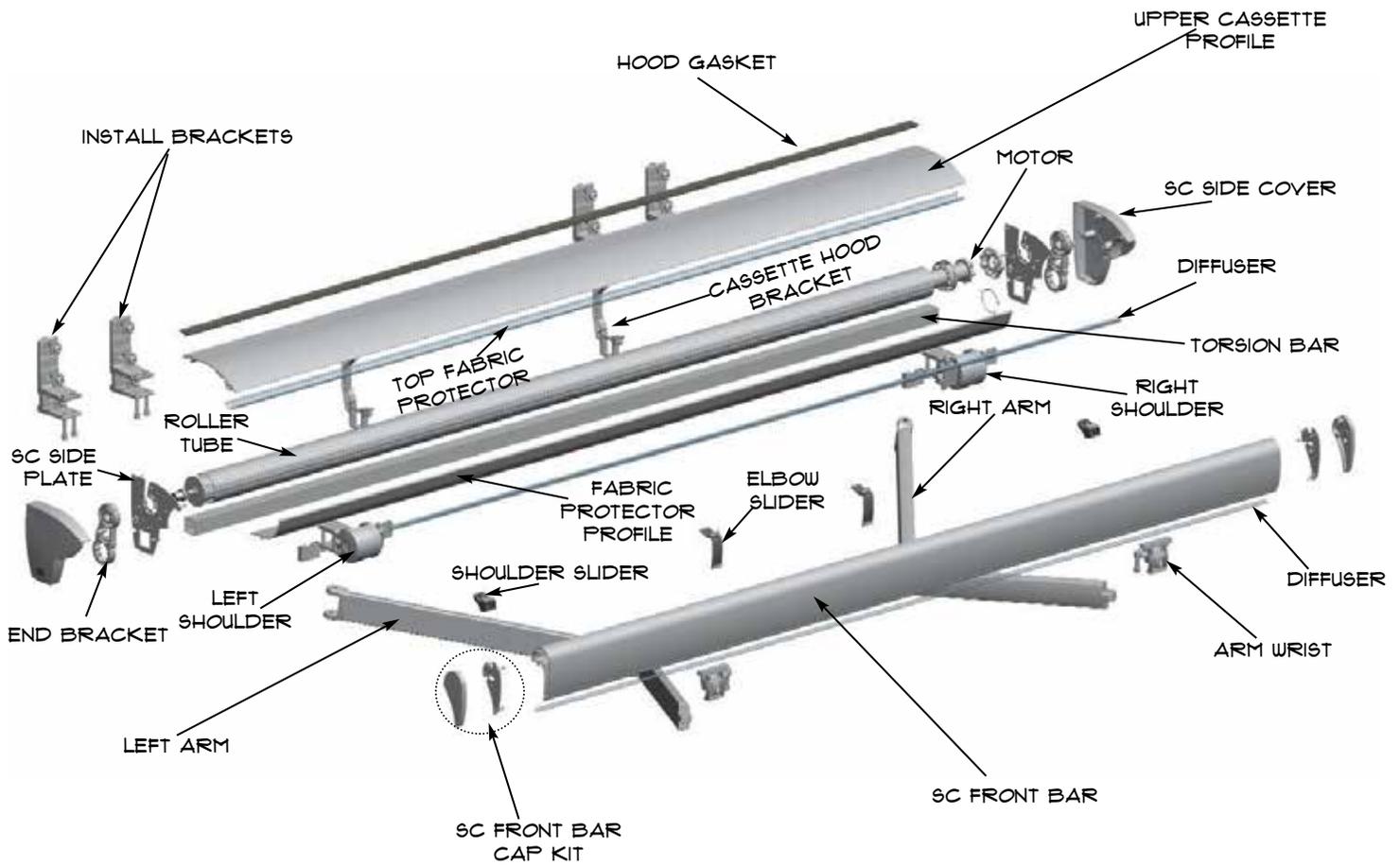
Extended Warranty Options:



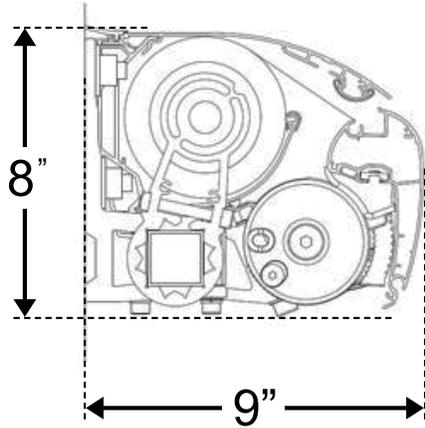
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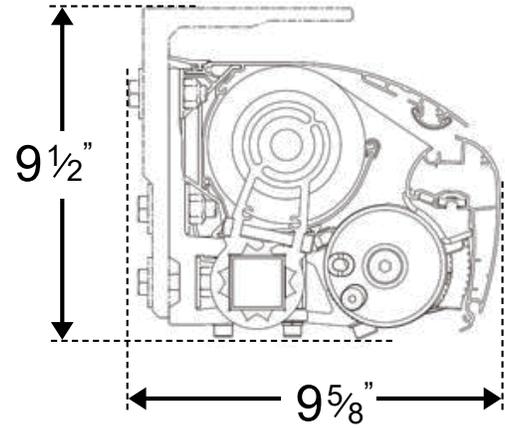




Wall Mount



Soffit Mount



Regal Semi Cassette(SC) Awning Components

Available Colors: * = select color
Alpine, Sierra, Walnut, And Onyx



Regal SC Side Cover Kit* (Left & Right)

sold as a set
complete with hardware



Regal Shoulder Slider (Left & Right)

sold as each
complete with hardware



Regal Soffit Install Brackets*

sold as each
complete with hardware



Regal End Brackets*

sold as each
complete with hardware



Regal Arm Wrist* (Left & Right)

sold as each
complete with hardware



Regal Wall Install Brackets*

sold as each
complete with hardware



Regal SC Front Bar*

sold by the foot



Regal Shoulder* (Left & Right)

sold as each
complete with hardware



Regal SC Front Bar Cap Kit* (Left & Right)

sold as each
complete with hardware

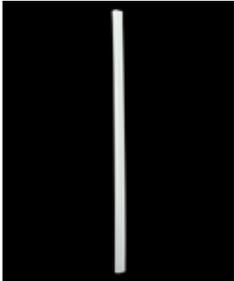
Regal Semi Cassette(SC) Awning Components

Available Colors: * = select color
Alpine, Sierra, Walnut, And Onyx



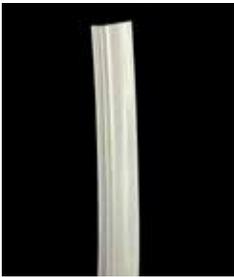
Regal SC Cassette Hood Bracket*

sold as a pair
complete with hardware



Regal Diffuser

sold by the foot



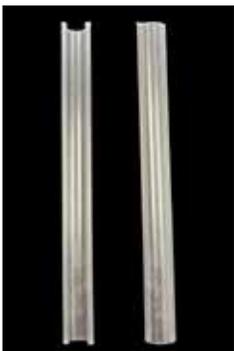
Regal Hood Gasket

sold by the foot



Regal Upper Cassette Profile*

sold by the foot



Regal Top Fabric Protector

sold by the foot



Regal Fabric Protector Profile*

#A0002-00
#A0002-03

sold by the foot



40mm Aluminum* Torsion Bar

sold by the foot

0 - 20'0"

20'1" - 24'0"

24'1" - 30'0"



Regal Drop Shade Front Bar*

sold by the foot



Regal Drop Shade Front Bar* End Cap Kit (Left & Right)

sold as a set
complete with hardware



Regal Elbow Slider

sold as a pair



Swivel Manual Override Stem

sold as each
complete with hardware

Regal Semi Cassette(SC) Awning Components

Available Colors: * = select color
Alpine, Sierra, Walnut, And Onyx



78mm Roller Tube
sold by the foot
8-2 to 11-6 projections
0 - 20'
20'1" - 24'
24'1" - 30'



70mm Roller Tube
sold by the foot
13-0 projection only
0 - 20'
20'1" - 24'
24'1" - 30'



78mm Pivot Gudgeon
#P0014-00
sold as each



70mm Pivot Gudgeon
#P0012-00
sold as each



78mm Gear End Gudgeon
#P0015-00
sold as each



70mm Gear End Gudgeon
#P0013-00
sold as each



SE Arm - Left*

8-2 #P0027-0X L
10-6 #P0028-0X L
11-6 #P0029-0X L
13-0 #P0030-0X L
sold as each



SE Arm - Right*

8-2 #P0027-0X R
10-6 #P0028-0X R
11-6 #P0029-0X R
13-0 #P0030-0X R
sold as each



Ball Style Crank

4-7 #P0007-00
5-11 #P0008-00
7-3 #P0009-00
9-10 #P0010-00
sold as each



Situo 1 Pure II Transmitter

#E1870571
sold as each



Situo 5 Pure II Transmitter

#E1870575
sold as each



Decoflex RTS one Switch

White #E1870575
Ivory #E1870575
sold complete

Application: Ultra Premium grade/residential use

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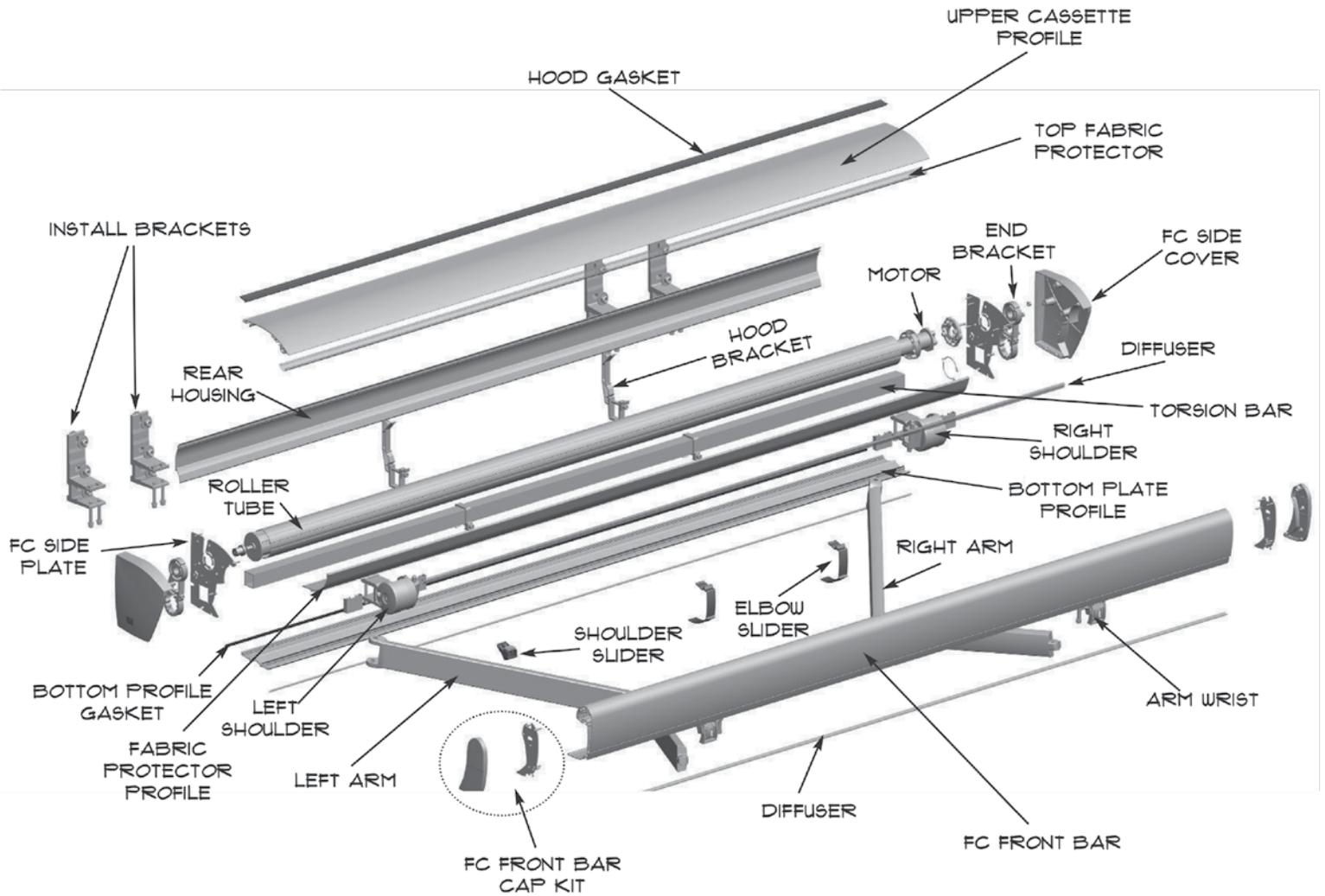
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**Non-prorated*

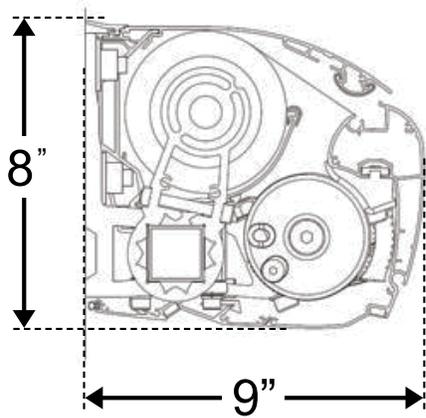


REGAL FULL CASSETTE

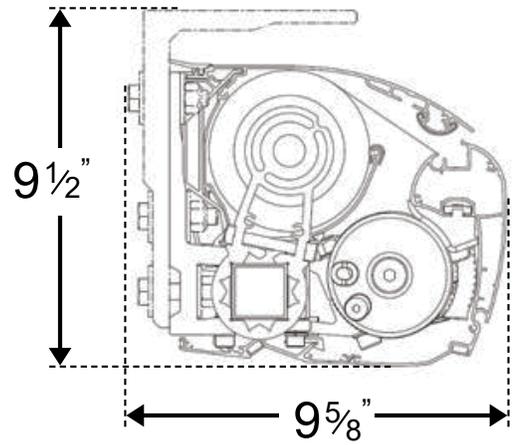
Unit Expanded View



Wall Mount



Soffit Mount



Regal Full Cassette(FC) Awning Components

Available Colors: * = select color
Alpine, Sierra, Walnut, And Onyx



Regal FC Side Cover Kit* (Left & Right)
sold as a set
complete with hardware



Regal End Brackets*
sold as each
complete with hardware



Regal Wall Install Brackets*
sold as each
complete with hardware



Regal Shoulder* (Left & Right)
sold as each
complete with hardware



Regal Shoulder Slider (Left & Right)
sold as each
complete with hardware



Regal Soffit Install Brackets*
sold as each
complete with hardware



Regal Arm Wrist* (Left & Right)
sold as each
complete with hardware



Regal FC Front Bar*
sold by the foot



Regal FC Front Bar Cap Kit* (Left & Right)
sold as each
complete with hardware

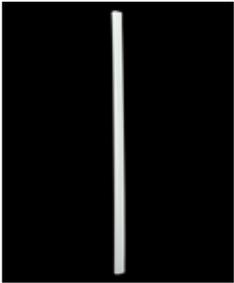
Regal Full Cassette(FC) Awning Components

Available Colors: * = select color
Alpine, Sierra, Walnut, And Onyx



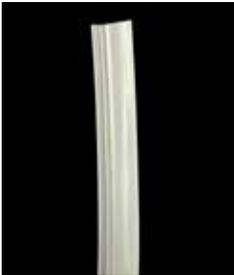
Regal FC Cassette Hood Bracket

sold as each
complete with hardware



Regal Diffuser

sold by the foot



Regal Hood Gasket

sold by the foot



Regal Upper Cassette Profile

sold by the foot



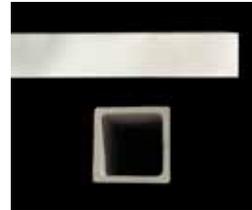
Regal Top Fabric Protector

sold by the foot



Regal Fabric Protector Profile

#A0002-00
#A0002-03
sold by the foot



40mm Aluminum* Torsion Bar

sold by the foot
0 - 20'0"
20'1" - 24'0"
24'1" - 30'0"



Regal FC Bottom Profile Plate

sold by the foot



Regal Drop Shade Front Bar* End Cap Kit (Left & Right)

sold as a set
complete with hardware



Regal Elbow Slider

sold as each

Regal Full Cassette(FC) Awning Components

Available Colors: * = select color
Alpine, Sierra, Walnut, And Onyx



78mm Roller Tube
sold by the foot
8-2 to 11-6 projections
0 - 20'
20'1" - 24'
24'1" - 30'



70mm Roller Tube
sold by the foot
13-0 projection only
0 - 20'
20'1" - 24'
24'1" - 30'



78mm Gear End Gudgeon
#P0015-00
sold as each



70mm Gear End Gudgeon
#P0013-00
sold as each



Regal Arm - Left*
8-2 #P0027-0X L
10-6 #P0028-0X L
11-6 #P0029-0X L
13-0 #P0030-0X L
sold as each



Regal Arm - Right*
8-2 #P0027-0X R
10-6 #P0028-0X R
11-6 #P0029-0X R
13-0 #P0030-0X R
sold as each



Ball Style Crank
4-7 #P0007-00
5-11 #P0008-00
7-3 #P0009-00
9-10 #P0010-00
sold as each



**Eye & Pin For 1:7
& 1:13 Gear**
#A0039-00
sold as each



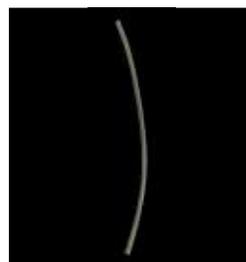
**Situo 1 Pure II
Transmitter**
#E1870571
sold as each



**Situo 5 Pure II
Transmitter**
#E1870575
sold as each



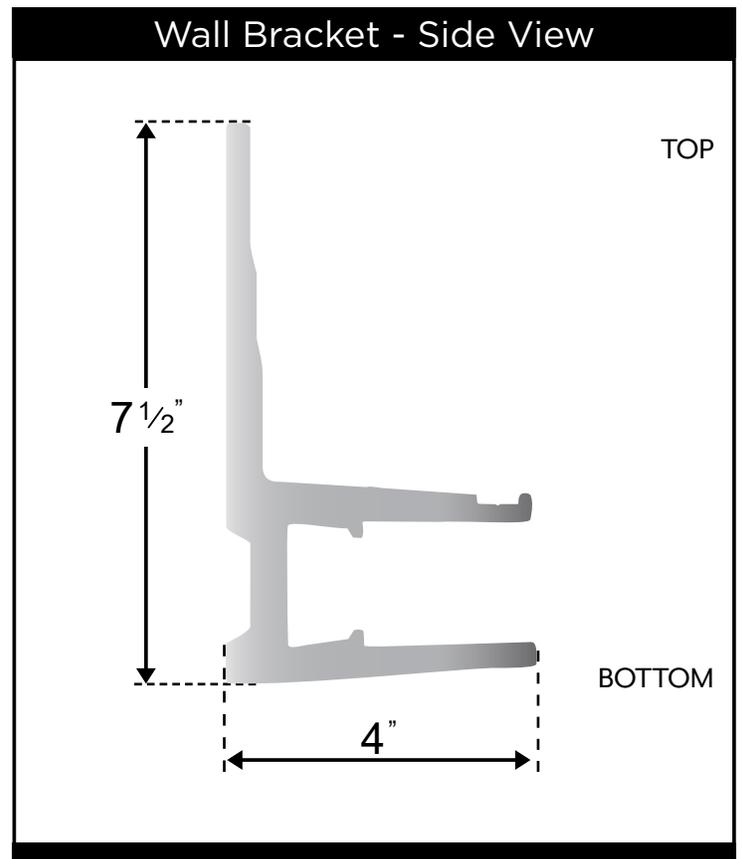
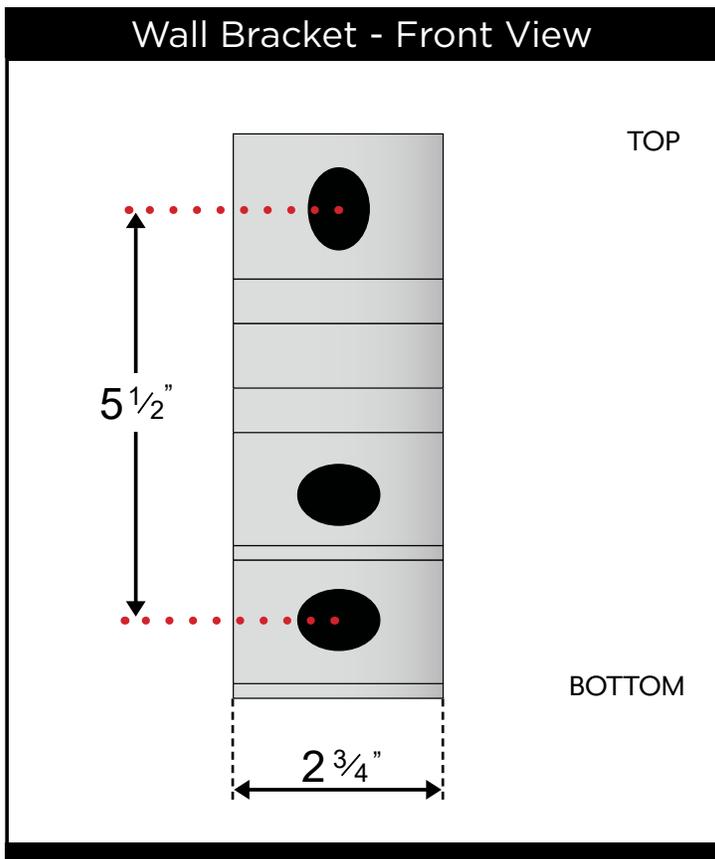
**Decoflex RTS one
Switch**
White #E1810897
Ivory #E1810898
sold complete



Regal Bottom Profile Gasket
sold by the foot

40 X 40mm
WALL MOUNT BRACKET

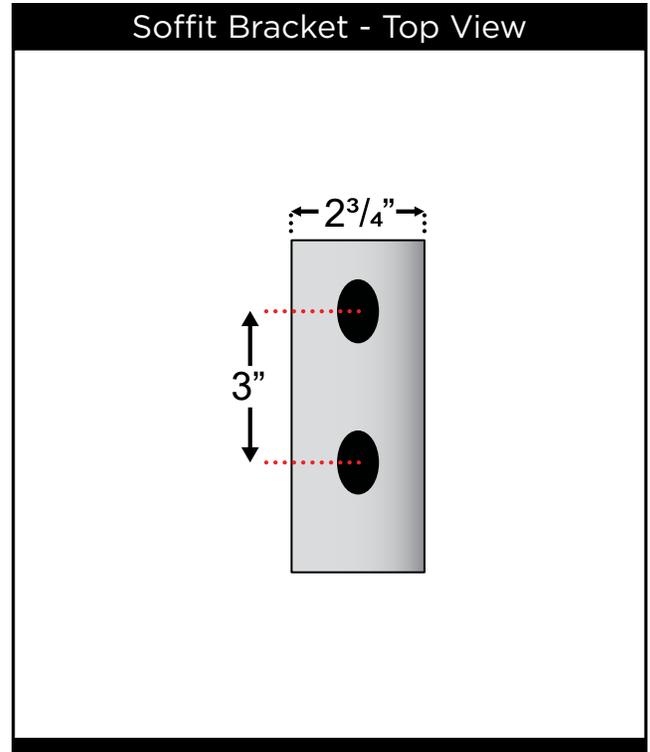
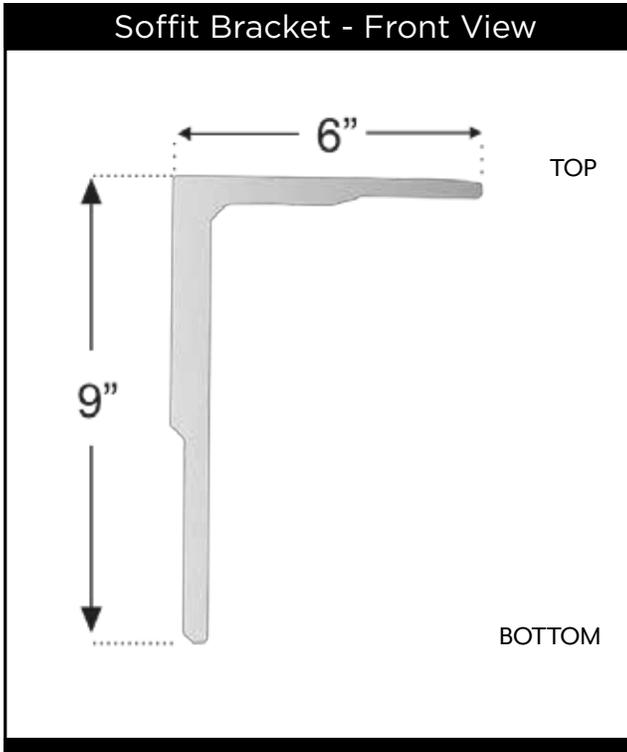
- All Sizes
- All Formats
- All Options



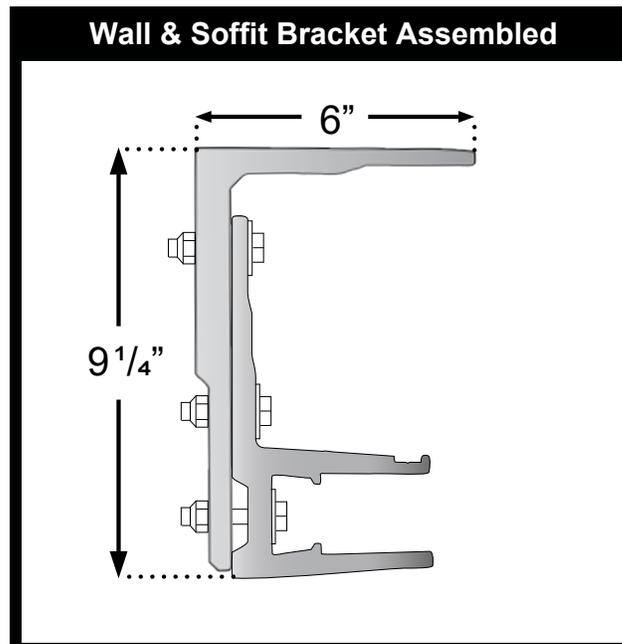
Holes = 1/2" x 3/4"

40 X 40mm
SOFFIT MOUNT BRACKET

- All Sizes
- All Formats
- All Options



Holes = $1/2$ " x $3/4$ "



MINIMUM WIDTHS	
<i>Semi Cassette</i>	
Projection	Minimum Width
8'2"	10'2"
10'6"	13'0"
11'6"	13'9"
13'0"	15'5"

MINIMUM WIDTHS	
<i>Full Cassette</i>	
Projection	Minimum Width
8'2"	10'2"
10'6"	13'0"
11'6"	13'9"
13'0"	15'5"

NUMBER OF ARMS BY PROJECTION (SEMI & FULL CASSETTE)

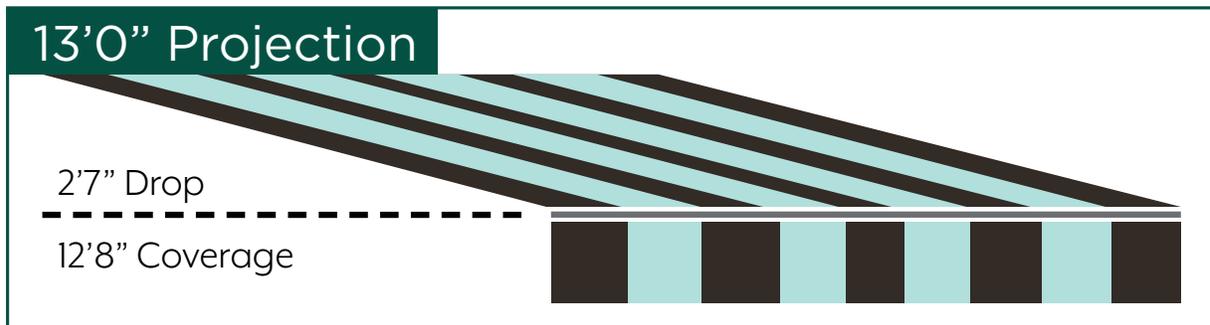
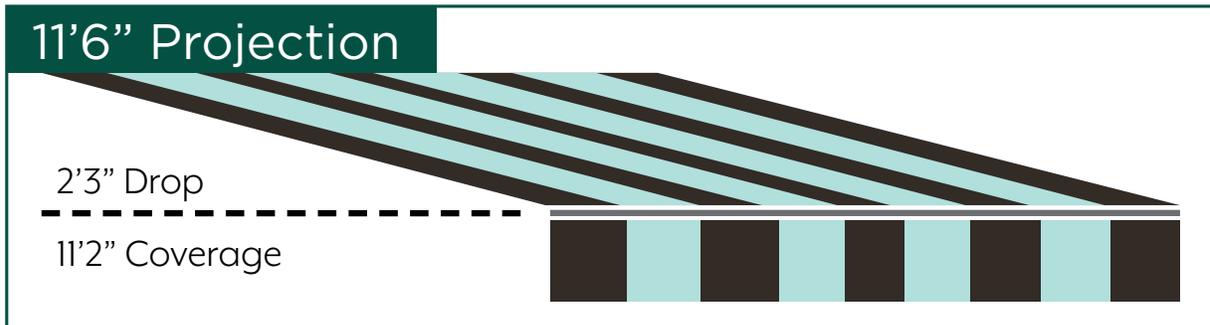
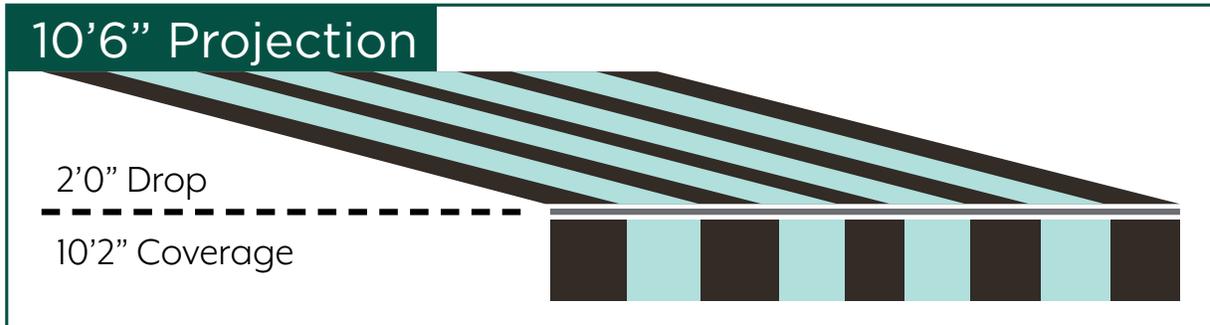
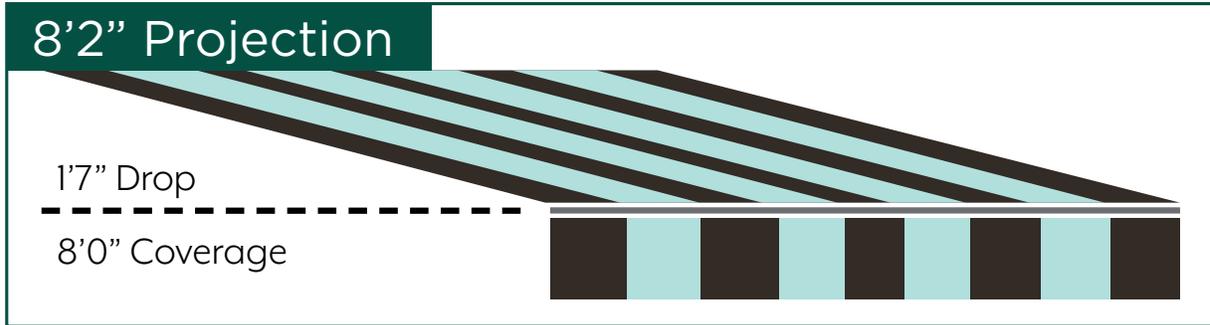
2 Arms	8'2"	10'6"	11'6"	13'0"
Min Widths	10'-2"	13'-0"	13'-9"	15'-5"
Max Widths	20'-0"	20'-0"	19'-11 7/8"	22'-6"

3 Arms	8'2"	10'6"	11'6"	13'0"
Min Widths	20'-01/8"	20'-01/8"	20'-0"	22'-6 1/8"
Max Widths	23'-0"	23'-0"	23'-0"	23'-0"

INSTALLATION BRACKET ASSIGNMENT (SEMI & FULL CASSETTE)

Install Bracket Count	Unit Projection			
	8'2" *	10'6" *	11'6" *	13'0"
3	up to 12' 11 7/8"			
4	13'0" to 16' 11 7/8"	up to 16'11 7/8"	up to 16'11 7/8"	up to 16'11 7/8"
5	17'0" to 20'0"	17'0" to 20'0"	17'0" to 19'11 7/8"	17'0" to 19'11 7/8"
6	20'0 1/8" to 23'0"	20'0 1/8" to 23'0"	20'0" to 23'0"	20'0" to 23'0"

* Units with an optional Drop Shade will include an additional installation bracket above what is shown. Drop Shade not available on 13'0" projection.



► **What to Expect:** A pitch adjustment typically takes 10-15 minutes to complete and requires 2 people.

► **Tools Needed:**

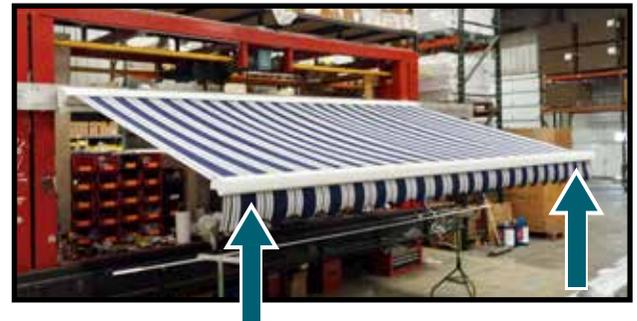
- 8mm Allen Wrenches/sockets
- A Step Ladder
- Measuring Tape or a Level
- An Assistant

Step #1 Fully extend the Regal awning.

Step #2 With an assistant lifting the arm, rotate the 8mm Allen.



Step #3 To Raise Pitch: Turn the 8mm Allen **clockwise or tighten.**



Step #4 To Lower Pitch: Turn the 8mm Allen **counterclockwise or loosen.**



Step #5 If turning the 8mm Allen is difficult, have the assistant raise the arm higher to ease tension.

Step #6 Confirm the front bar is level. Use a level or measure both sides of the front bar to a flat, even surface.

► **What to Expect:** An elbow adjustment typically takes 15-20 minutes to complete.

► **Tools Needed:** • 4mm Allen Wrenches/Socket

• A Step Ladder

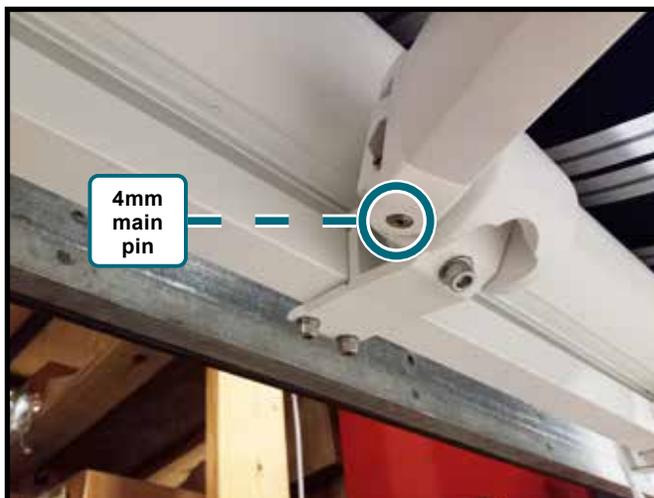
Step #1 Roll the awning all the way in and determine if the elbows need to be adjusted.

Step #2 If adjustment is needed, roll the awning out until you can access the 4mm set screw on the inside of shoulder (about 1/2 way out).



Step #3 Loosen the 4mm set screw or remove temporarily.

Step #4 Using a 4mm allen key, spin the main pin (it attaches the arm to the shoulder) one way or the other to raise or lower the elbow to desired height.



Step #5 Replace the 4mm set screw, roll the awning all the way in and check elbow placement.

► **What to Expect:** A front bar adjustment typically takes 25-30 minutes to complete.

► **Tools Needed:** • 6mm Allen Wrenches/sockets

• A Step Ladder

Step #1 Extend the awning until it reaches the outer limit.

Step #2

Press up and down together on the remote until the awning jogs. Now roll out beyond your outer limit until the fabric is loose.



Step #3

Using a 6mm allen key, loosen the 2 wrist bolts on both sides.



Step #4 With the wrist bolts loose on all wrists, rotate the front bar up or down to the desired position. Be sure the wrists are on the same mark on both sides.

Step #5 With the front bar in the desired position, tighten the (2) 6mm bolts on both wrists

Step #6 Roll the awning back in to the outer limit position and press and hold "MY" for 1 jog, outer limit has been reset and adjustment is complete.

Check elbow alignment:

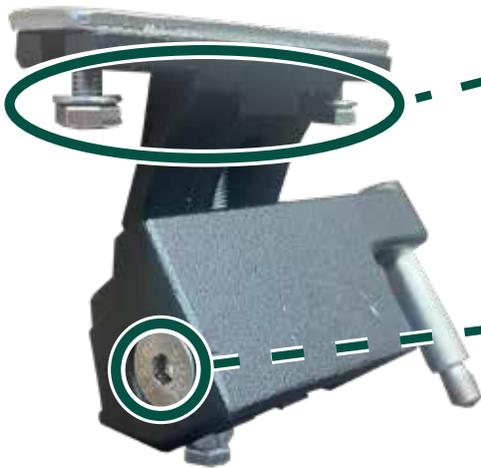


► **What to Expect:** A wrist adjustment typically takes 5 minutes to complete.

► **Tools Needed:** • 5mm Allen/Hex Wrench or Socket • 10mm Wrench & Socket • A Step Ladder

Before beginning the process of adjusting the wrists on the Regal, it's important to identify the key areas that you'll need to focus on. See Fig.1 and Fig.2 below:

Figure.1



(Front View)

10mm wrist attachment screws

5mm allen screw

Figure.2



(Back View)

10mm backup screw

Step #1 The wrist adjustment comes after you set your pitch. Once the pitch adjustment is taken care of, retract the unit fully to see how the unit closes to determine if you need to adjust the front bar. If the front bar is tilting too far forward or too far back, follow these steps.

Step #2

From the fully closed position, extend the unit about a foot to gain access to the fasteners. Then, loosen the backup 10mm nut on the top (Fig.3) on the bottom of each wrist.

Figure.3

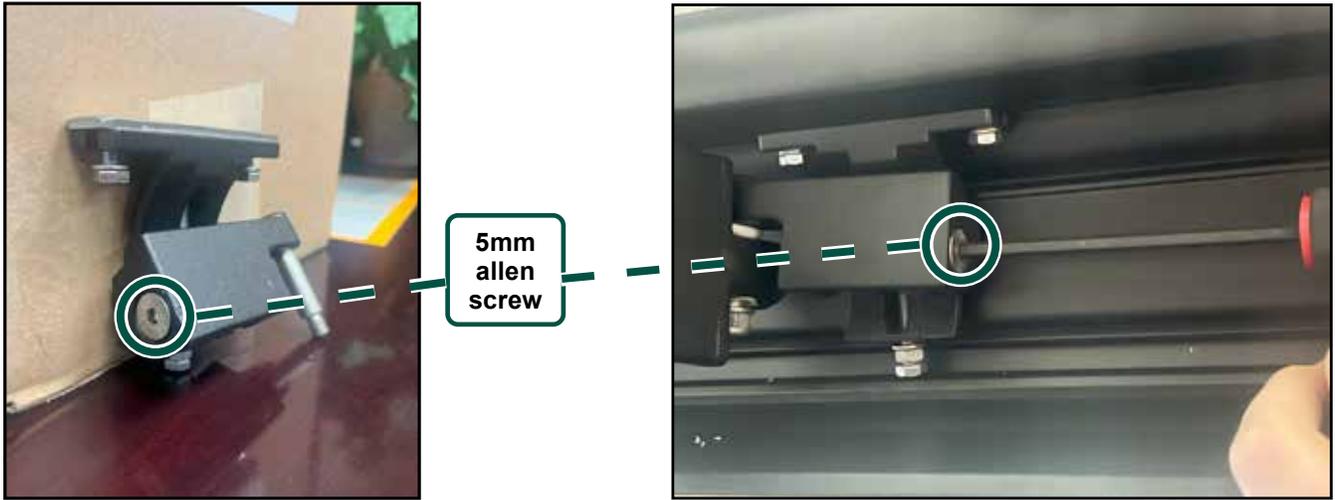


10mm backup screw

Step #3

Then, loosen the 5mm allen screw (Fig.4) on the side of each wrist in order to begin adjusting the wrist.

Figure.4



Step #4

Spin the bottom of the 10mm backup nut counter clockwise if the front bar needs to be adjusted in from the bottom, or clockwise if the front bar needs to be adjusted in from the top.

Front Bar all the way in



Front Bar all the way up



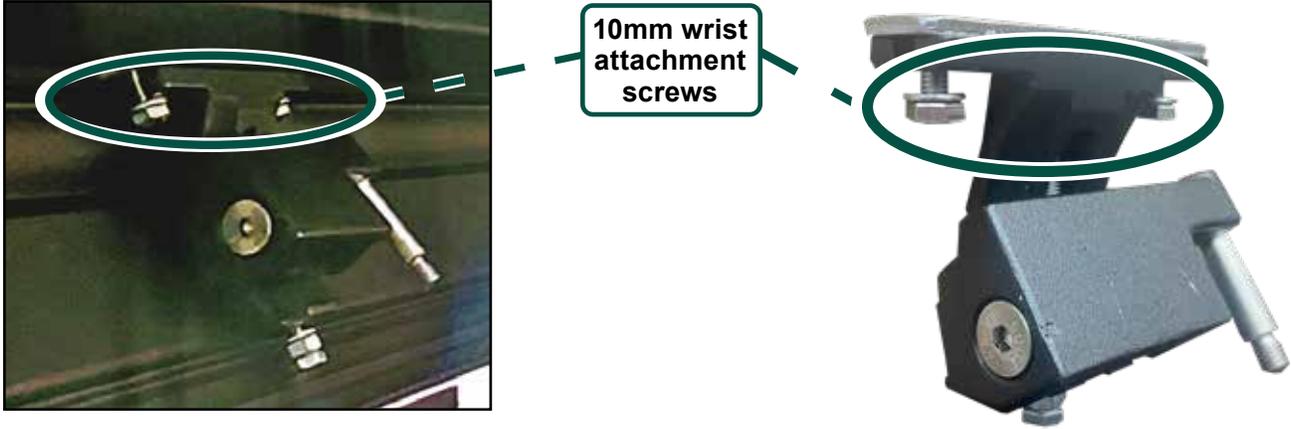
Step #5

After the front bar is adjusted to desired position, retighten the bottom 10mm backup nut (Fig.3) and fully tighten the 5mm (Fig.4) side allen screw on each wrist.

Step #6

If an arm elbow is not aligned when fully closed, you can make the adjustment with the arm wrist. Carefully loosen the two 10mm bolts as shown in (Fig.5). DO NOT REMOVE BOLTS. Then, hold the arm elbow & move it to the desired position. This should allow the wrist to slide along the front bar. Once the desired position is confirmed, retighten the two 10mm wrist attachment bolts & test run the unit.

Figure.5



**ANY QUESTIONS PLEASE CONTACT TECH SUPPORT AT:
845-645-6995**

► **What to Expect:** This process typically takes 20-30 minutes to complete.

► **Tools Needed:** • 3mm, 4mm Allen Wrenches/Sockets • 1/8" and 1/2" Drill Bits • Phillips Head • Rotary Saw
• Straps or Rope to secure arms • A Step Ladder • Rubber Mallet

Step #1 With the awning fully retracted, secure together the front and back half of all arms and secure both arms to the torsion bar.

Extend the awning one full rotation of the roller tube to ensure that the arms are properly secured.

Step #2 Remove the side cover by locating and removing the 4mm allen set screw shown here. Once the set screw is removed, you can pull the side cover off.

Semi Cassette



Full Cassette



Step #3 Loosen the Upper Cassette Profile by removing the 2 phillips head screws shown here. You can now lift the Upper Cassette Profile and work beneath it. You can also repeat step 2 and step 3 on the opposite side of the awning and set the entire Upper Cassette Profile aside.

Semi Cassette

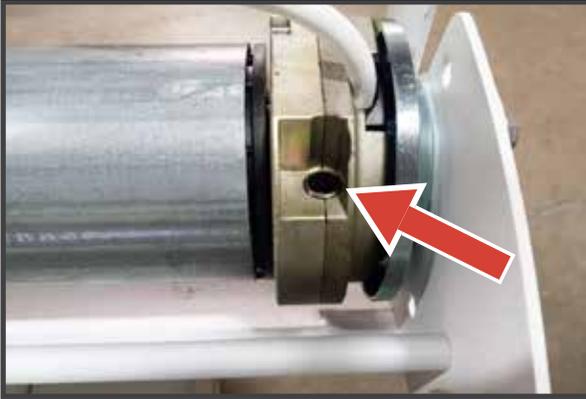


Full Cassette

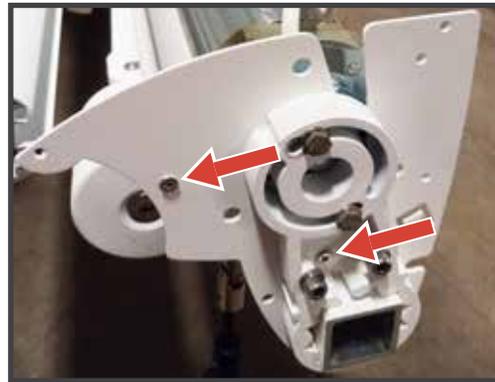


Note: The Semi Cassette model is pictured for steps 4 through 9, but the instructions apply also to the Full Cassette. The side plate just appears slightly different.

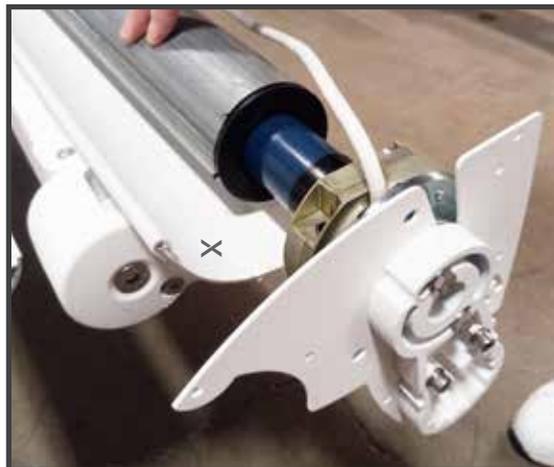
Step #4 Drop a pencil through the override hole in the motor head in order to mark where the hole will be drilled on the Fabric Protector Profile.



Step #5 Remove the 6mm Allen bolt and two phillips head screws shown in order to pull out the end bracket, side plate, and motor.



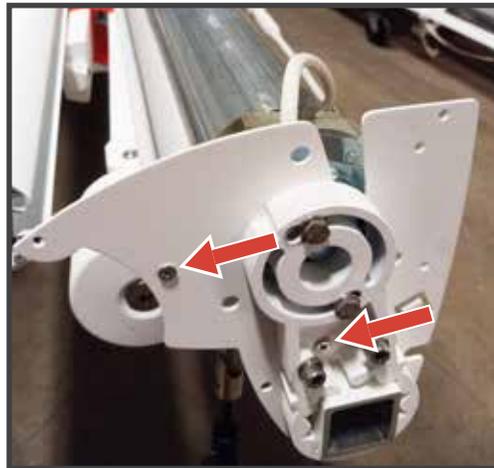
Step #6 Pull out the end bracket, side plate, and motor in order to access the mark made in step 4.



Step #7 With a 1/8" drill bit, make a pilot hole on the mark. Then use a 1/2" to expand the opening in the fabric protector profile.



Step #8 Slide the motor and side plate back into the roller tube and resecure the 2 philips screws and 6mm bolt from step 5.



Step #9 Insert the override stem through the fabric protector profile and the motor, and attach the 3mm allen bolt and washers.



Step #10 Replace the Upper Cassette Profile and the 2 phillips head screws shown here. Repeat this process on the opposite side of the awning if you removed the other side in step 3.

Semi Cassette



Full Cassette



Step #11 Replace the side cover(s) by snapping it in place and replacing the 4mm allen set screw shown here. Gently tap on with a rubber mallet if needed.

Semi Cassette



Full Cassette



Note: FULL CASSETTE MODEL ONLY: Measure from the inside of the side plate to the override stem before making the cut on the bottom plate. This will generally be around 2" in length and around 1" in depth. Use a rotary saw to make a notch on the bottom plate profile to make room for the override stem.

