INSTALLATION MANUAL

ALPINE SLIDEOUT COVER

RV

Read this manual before installing or using this product. Failure to follow the instructions and safety precautions in this manual can result in personal injury and/or cause the product to not operate properly.

TABLE OF CONTENTS

PROPRIETARY STATEMENT

The ALPINE SLIDEOUT COVER is a product of Carefree of Colorado, located in Broomfield, Colorado, USA. The information contained in or disclosed in this document is considered proprietary to Carefree of Colorado. Every effort has been made to ensure that the information presented in the document is accurate and complete. However, Carefree of Colorado assumes no liability for errors or for any damages that result from the use of this document.

The information contained in this manual pertains to the current configuration of the models listed on the title page. Earlier model configurations may differ from the information given. Carefree of Colorado reserves the right to cancel, change, alter or add any parts and assemblies, described in this manual, without prior notice.

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SAFETY INFORMATION

⚠ ⚠	**This is the safety alert symbol. It is used to alert individuals to potential personal injury hazards. Obey all safety messages that follow this sysmbol to avoid possible personal injury or death.**
⚠ **WARNING**	**Indicates a hazardous situation, which if not avoided, could result in death or serious bodily injury.**
⚠ **CAUTION**	**Indicates a hazardous situation, which if not avoided, may result in minor or moderate bodily injury.**
NOTICE	**Indicates a situation that may result in equipment-related damage.**

General Safety:

⚠ **WARNING** **This product can expose you to chemicals including Di-isodecyl phthalate (DIDP), Vinyl Chloride and Formaldehyde, which are known to the state of California to cause cancer or birth defects or other reproductive harm. For more information visit www.P65warnings.ca.gov**

⚠ **WARNING** **Shock Hazard. Always disconnect battery or power source before working on or around the electrical system.**

⚠ **WARNING** **Always wear appropriate safety equipment (i.e. goggles).**

⚠ **CAUTION** **Always use appropriate lifting devices and/or helpers when lifting or holding heavy objects.**

NOTICE **When using fasteners, do not over tighten. Soft materials such as fiberglass and aluminum can be "stripped out" and lose the ability to grip and hold.**

PRODUCT OVERVIEW

GENERAL DESCRIPTION AND SPECIFICATIONS

- Light weight Slideout cover with style and performance;

- Simple Installation;

- Two mounting bracket sizes available to accommodate a range of room flange sizes;

- Carefree's innovative automatic anti-billow lock securely holds the fabric during travel.

42" to 204" (Box Length)

205" to 336" (Box Length)
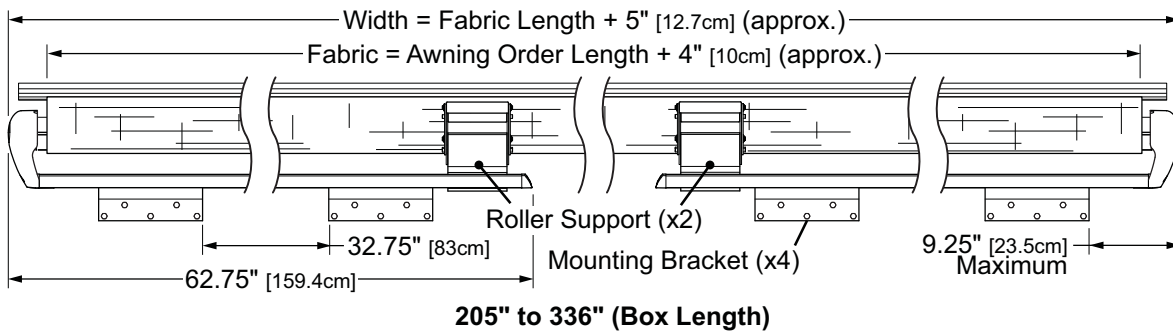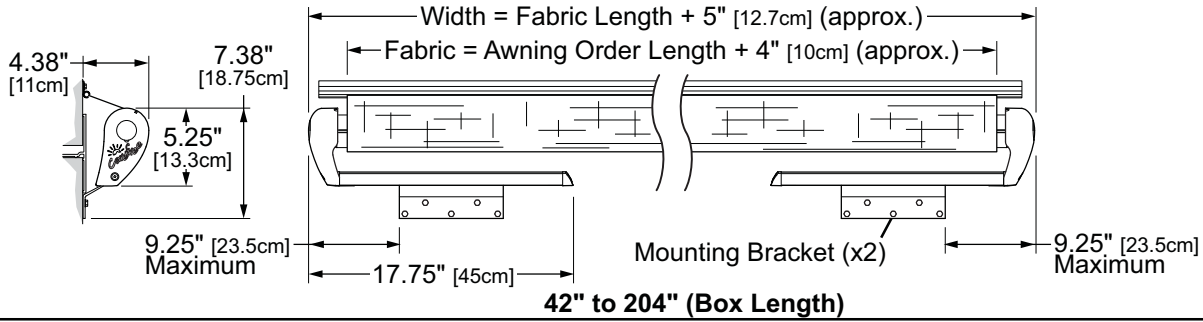
AL001c

AVAILABLE LENGTHS: (measured box length)		42" - 336"	AVAILABLE EXTENSION:	Up to 42"

FABRIC TENSION		One spring mounted in RH end of roller tube		
COLOR:	*Hardware:*	White, Black		
	Fabric:			
WEIGHT:	*Standard*	Base Weight @ 42" Box Length = 13.5 lbs; for every 12" increase, add 1 lb		
		Weight calculation is approximate. Actual weight may vary based on specific installation details		

NOTICE	**When installing the awning it is important that the correct awning length is used and that the brackets are positioned so that the arms are fully engaged in the mounting brackets as shown. Failure to mount the awning with the arms fully engaged can result in the anti-billow lock not functioning properly and allowing the awning to billow.**

STANDARD INSTALLATION

COMPONENT CHECKLIST

AL002

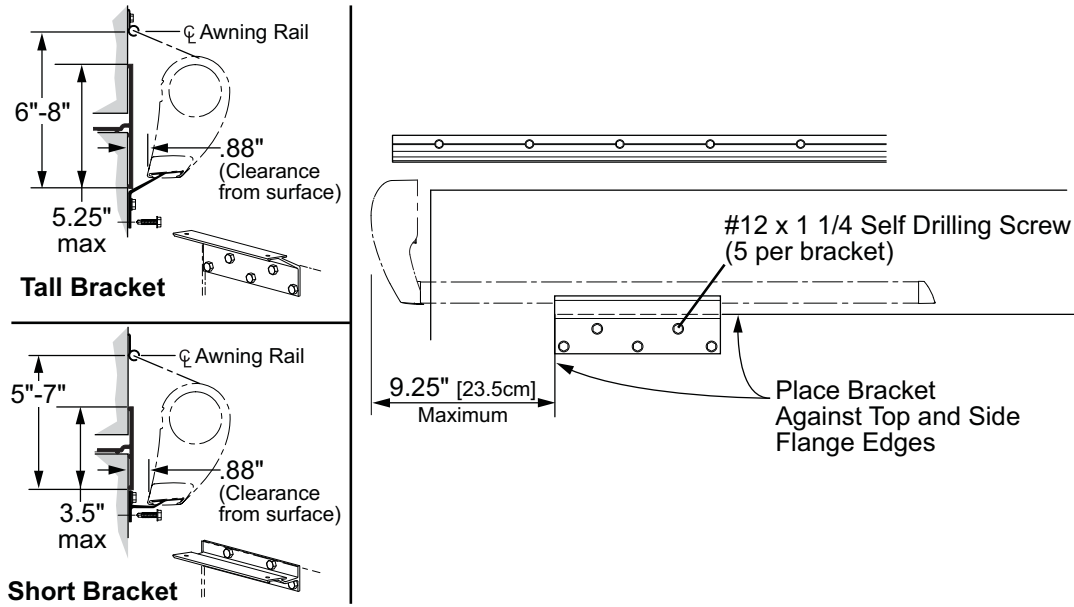| ☑	ITEM	DESCRIPTION			QTY	NOTE
❑	1	Awning Rail			1	3
❑	2	Roller Tube Assy w/ Fabric			1	
❑	3	Endcap and Rail Assy, LH			1	
❑	4	Endcap and Rail Assy, RH			1	
❑	5	Mounting Bracket, Tall			2	2
❑	6	Mounting Bracket, Short			2	2
❑	7	End Plug			2	
❑	8	Screw, Self-Drilling, HWH	Bracket Mount	#12 x 1 1/4	10	
❑	9	Screw, Shoulder, Sq Drive	Roller Tube Attach	#10-32	2	
❑	10	Screw, Pan Head Sq Drive	Extension Attach	#10 x 1/2	4	
❑	11	Screw, Pan Head Sq Drive	Fabric Attach	#8 x 1/2	2	

NOTES:
1. Awning configuration is specified at time of order, including awning length, fabric color etc. Check awning assembly against original purchase order.
2. Bracket style (item 5 or 6) is specified at time of order.
3. Awning rail must be specified at time of order. A screw packet is included with awning rail.

During installation, the room should be closed until instructed otherwise.

MOUNTING THE BRACKETS

Two brackets are available for mounting the Alpine. The tall bracket is used for large flanges; the short bracket is used for smaller flanges.

NOTICE **The mounting surface must have sufficient framing or backing to support the brackets and allow the use of the screws. Aluminum or fiberglass skins are not adequate to support the installation.**

Tall Bracket

6"-8"
.88" (Clearance from surface)
5.25" max
℄ Awning Rail

Short Bracket

5"-7"
.88" (Clearance from surface)
3.5" max
℄ Awning Rail

#12 x 1 1/4 Self Drilling Screw (5 per bracket)

9.25" [23.5cm] Maximum

Place Bracket Against Top and Side Flange Edges
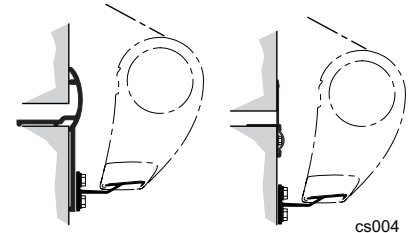
AL003

If installing a new awning rail:
1. Align the mounting brackets with the inner edges of the top and side room flanges. Go to step 3.

If using an existing awning rail:
2. Measure the distance from the inner flange edge to the center of the awning rail.

   2.1. <u>If the distance is within the range shown</u>, align the mounting brackets with the inner edges of the top and side room flanges. Go to step 3.

   2.2. <u>If the distance is outside the range shown</u>, adjust the vertical position of the bracket to match the acceptable range. The bracket can be mounted below or on the flange as long as the screws enter the structure of the room and the position does not exceed the maximum height to top of flange as shown.
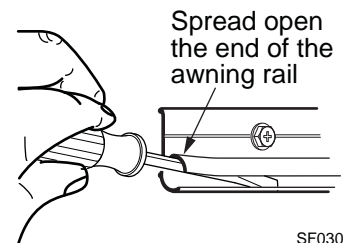

cs004

3. Use a suitable urethane based sealant or hybrid sealant and coat the mounting surface of the bracket with particular attention around the mounting holes.

4. Attach the brackets using the supplied #12 x 1 1/4 self-drilling screws.

Installing an Awning Rail

1. Measure up from the bracket as shown above. This is the centerline of the awning rail slot.

2. Seal the back of the rail with a suitable urethane based sealant or putty tape.

3. Align the centerline of the awning rail and attach using #10 x 3/4 screws. Position the slot pointing down.

To aid sliding the canopy into position:
4. Using a screwdriver slightly spread open one end of the awning rail.

5. Clean and deburr the end of the rail.

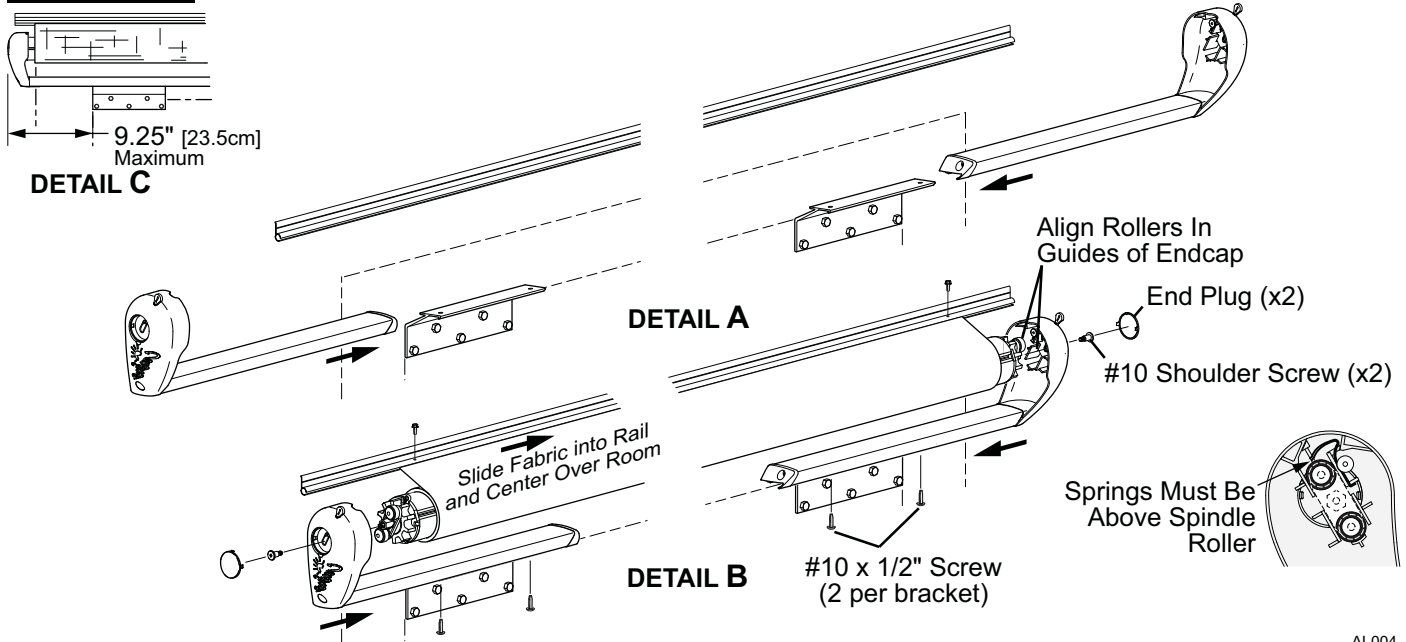6. Spray inside the rail track with silicone lubricant.

Spread open the end of the awning rail

SF030

MOUNTING THE ROLLER TUBE ASSEMBLY

| NOTICE | Do not remove the spring locking pin until instructed after all steps are complete. |

9.25" [23.5cm]
Maximum
DETAIL C

Align Rollers In
Guides of Endcap

DETAIL A

End Plug (x2)

#10 Shoulder Screw (x2)

Slide Fabric into Rail
and Center Over Room

Springs Must Be
Above Spindle
Roller

DETAIL B

#10 x 1/2" Screw
(2 per bracket)

AL004

1. *(Detail A)* Slide the endcap assembly onto the mounting bracket. Do not attach at this time.

2. Repeat for the other side.

3. Unroll some of the fabric from the roller tube.

4. Slide the polyrod and fabric into the awning rail.

5. Roll up the slack material onto the roller tube.

| NOTICE | Failure to roll up the slack before installing the roller tube will reduce the spring tension. This can cause the fabric to sag and not roll up correctly when the room is closed. |

6. *(Details B)* On the RH side (spring side), slide the endcap over the roller tube. Align the rollers inside the guides of the endcap and press the endcap firmly against the roller tube. The roller tube should be oriented with the head of the spring lock pin pointing up.

    NOTE: Ensure that both return springs inside the endcap are above the spindle rollers.

7. Secure the roller tube using one (1) #10 shoulder screw. Torque screw to 25-35 in-lbs.

8. Repeat steps 7 and 8 for the LH end cap.

9. Center the roller tube and fabric over the room.

| NOTICE | Ensure the endcap is pressed against the roller tube before attaching to the brackets. |

10. *(Detail B)* From the bottom, attach the endcap assembly to the mounting brackets with two (2) #10 x 1/2 screws per bracket.

| ⚠ CAUTION | The roller tube has a pre-wound spring. When the spring lock pin is removed, the roller tube spring will quickly roll up any slack material. Keep hands and fingers out of the way. |

11. Remove the spring locking pin from the end of the roller tube assembly. This is located on the right end of the roller tube.

12. Remove the orange float lock pin from both endcaps.

13. Open and close the room to ensure that the fabric is rolling up straight on the roller tube.

14. Secure the fabric to the awning rail using two #8 x 1/2 self-drilling screws through the rail and fabric.

#8 x 1/2" Screw

Spring Lock Pin
(thru Roller Tube)

Float Lock Pin
(thru Endcap)
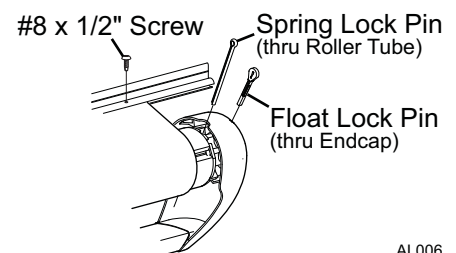
AL006

XL INSTALLATION

COMPONENT CHECKLIST
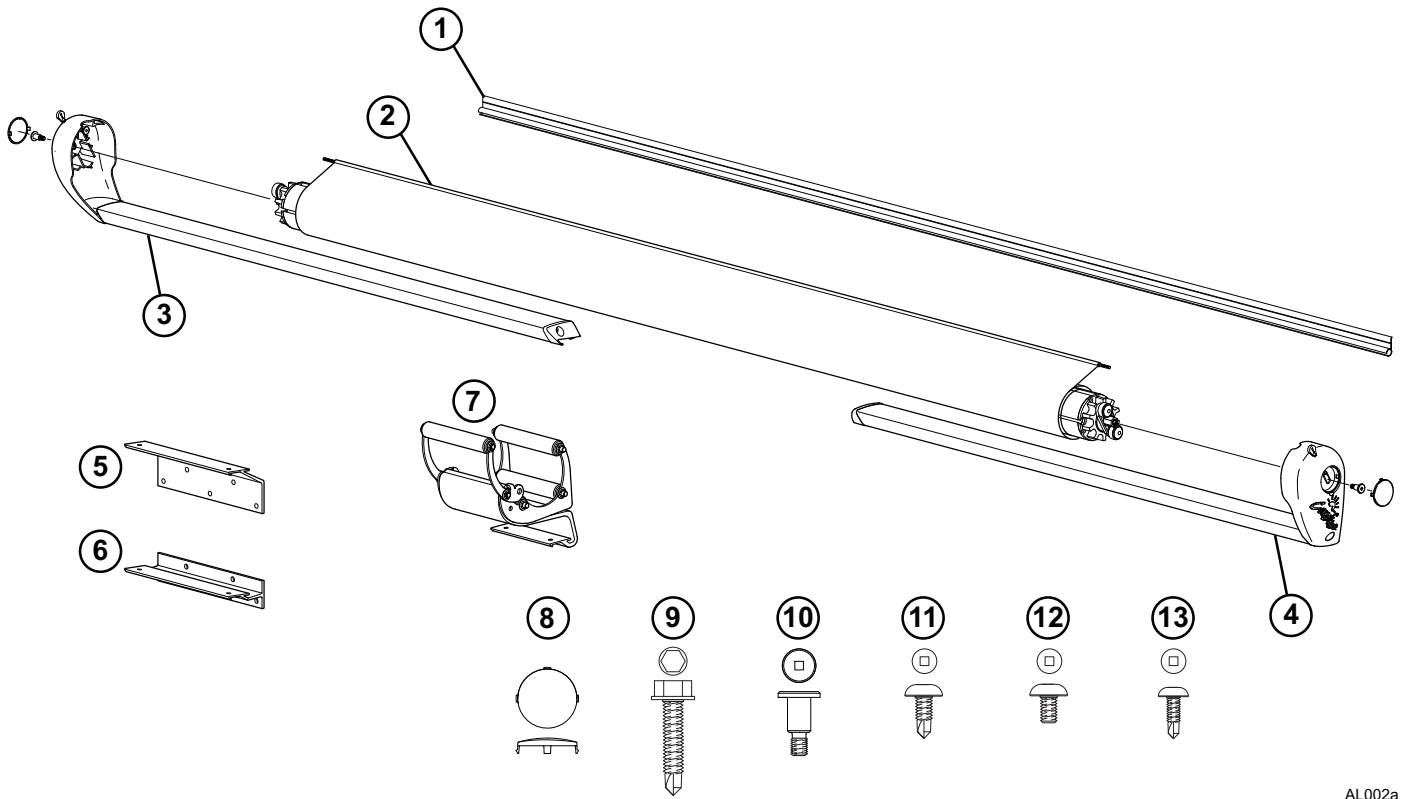
AL002a

☑	ITEM	DESCRIPTION			QTY	NOTE
❑	1	Awning Rail			1	3
❑	2	Roller Tube Assy w/ Fabric			1	
❑	3	Endcap and Rail Assy, LH			1	
❑	4	Endcap and Rail Assy, RH			1	
❑	5	Mounting Bracket, Tall			4	2
❑	6	Mounting Bracket, Short			4	2
❑	7	Cradle, Roller Support			2	
❑	8	End Plug			2	
❑	9	Screw, Self-Drilling, HWH	Bracket Mount	#12 x 1 1/4	20	
❑	10	Screw, Shoulder, Sq Drive	Roller Tube Attach	#10-32	2	
❑	11	Screw, Pan Head Sq Drive	Extension and Support Attach	#10 x 1/2	12	
❑	12	Screw, Pan Head Sq Drive	Cradle Cover Attach	#1/4-28 x 3/8	2	
❑	13	Screw, HWH	Fabric Attach	#6 x 3/8	2	

NOTES:
1. Awning configuration is specified at time of order, including awning length, fabric color etc. Check awning assembly against original purchase order.
2. Bracket style (item 5 or 6) is specified at time of order.
3. Awning rail must be specified at time of order. A screw packet is included with awning rail.
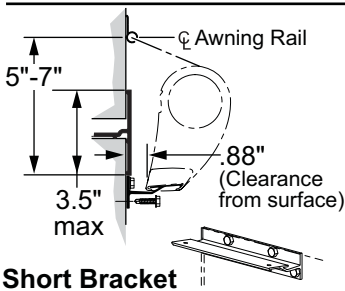
MOUNTING THE BRACKETS

Two brackets are available for mounting the Alpine. The tall bracket is used for large flanges; the short bracket is used for smaller flanges.
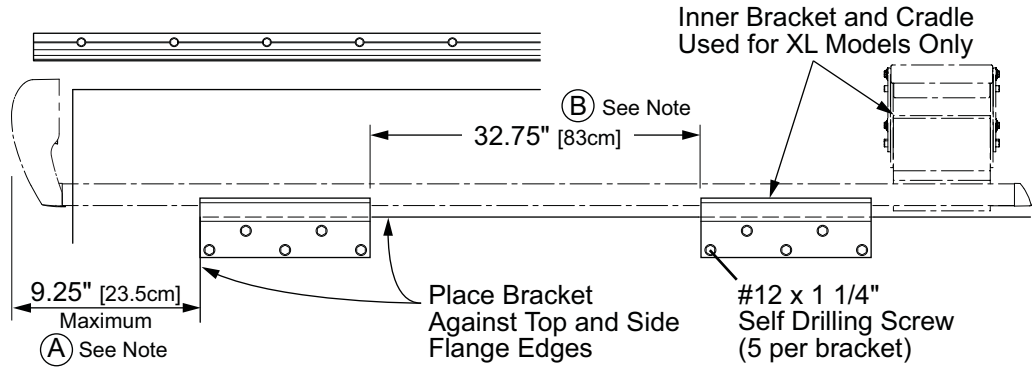
NOTICE | **The mounting surface must have sufficient framing or backing to support the brackets and allow the use of the screws. Aluminum or fiberglass skins are not adequate to support the installation.**

ℂ Awning Rail

6"-8"

.88"
(Clearance from surface)

5.25" max

Tall Bracket

ℂ Awning Rail

5"-7"

.88"
(Clearance from surface)

3.5" max

Short Bracket

Inner Bracket and Cradle
Used for XL Models Only

Ⓑ See Note

32.75" [83cm]

9.25" [23.5cm]
Maximum
Ⓐ See Note

Place Bracket
Against Top and Side
Flange Edges
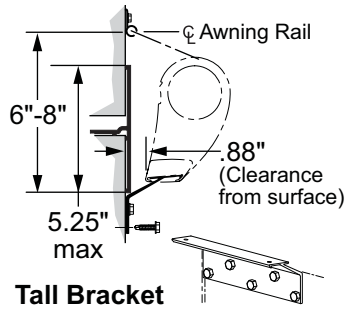
#12 x 1 1/4"
Self Drilling Screw
(5 per bracket)

NOTE: For XL models, If dimension "A" is less than the maximum value shown, dimension "B" can be increased. There must be enough space at the end of the support arm to allow the cradle to be placed completely on the arm as shown.
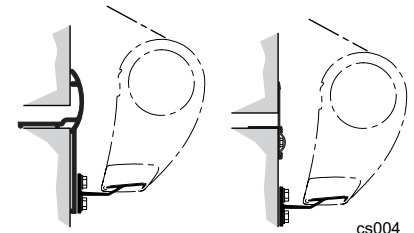
AL003a

If installing a new awning rail:

1. Align the mounting brackets with the inner edges of the top and side room flanges. Space brackets as shown. Go to step 3.

If using an existing awning rail:

2. Measure the distance from the inner flange edge to the center of the awning rail.

   2.1. If the distance is within the range shown, align the mounting brackets with the inner edges of the top and side room flanges. Go to step 3.

   2.2. If the distance is outside the range shown, adjust the vertical position of the bracket to match the acceptable range. The bracket can be mounted below or on the flange as long as the screws enter the structure of the room and the position does not exceed the maximum height to top of flange as shown.
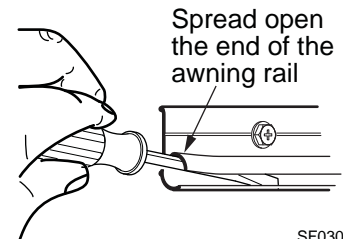

cs004

3. Use a suitable urethane based sealant or hybrid sealant and coat the mounting surface of the bracket with particular attention around the mounting holes.

4. Attach the brackets using #12 x 1 1/4 self-drilling screws.

Installing an Awning Rail

1. Measure up from the bracket as shown above. This is the centerline of the awning rail slot.

2. Seal the back of the rail with a suitable urethane based sealant or putty tape.

3. Align the centerline of the awning rail and attach using #10 x 3/4 screws. Position the slot pointing down.

To aid sliding the canopy into position:

4. Using a screwdriver slightly spread open one end of the awning rail.

5. Clean and deburr the end of the rail.

6. Spray inside the rail track with silicone lubricant.

Spread open
the end of the
awning rail

SF030

MOUNTING THE ROLLER TUBE ASSEMBLY

NOTICE	Do not remove the spring locking pin until instructed after all steps are complete.

1. *(Detail A)* Slide the endcap extension onto the mounting brackets. Do not attach at this time.
2. Repeat for the other side.
3. Unroll one wrap of the fabric from the roller tube.
4. Slide the polyrod and fabric into the awning rail.

NOTICE	Failure to roll up the slack before attaching the roller tube will reduce the spring tension. This can cause the fabric to sag and not roll up correctly.

5. Roll up the slack material.

6. *(Detail B)* On the RH side (spring side), slide the endcap over the roller tube. Align the rollers inside the guides of the endcap and press the endcap firmly against the roller tube. The roller tube should be oriented with the head of the spring lock pin pointing up.

    NOTE: Ensure that both return springs inside the endcap are above the spindle rollers.

7. Secure the roller tube using one (1) #10 shoulder screw. Torque screw to 25-35 in-lbs.

8. Repeat steps 7 and 8 for the LH end cap.

9. Center the roller tube and fabric over the room.

DETAIL A

Slide Fabric into Rail and Center Over Room

Align Rollers In Guides of Endcap

End Plug (x2)

#10 Shoulder Screw (x2)

Springs Must Be Above Spindle Roller

#10 x 1/2" Screw (2 per bracket)

DETAIL B

AL004a

10. Attach the endcap assemblies to the mounting brackets with two (2) #10 x 1/2 screws per bracket.
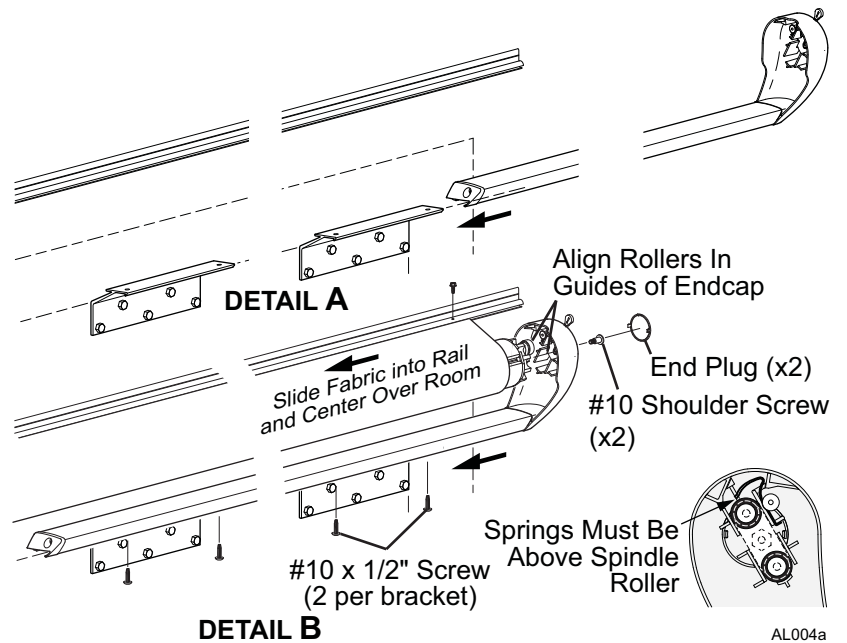
INSTALLING THE CRADLE

1. Open the cradle and wrap around the roller tube and fabric.

2. Slide the cradle base into the endcap extrusion and secure with two (2) #10 x 1/2" screws.

3. Close the cradle over the roller tube and fabric. Secure using two (2) 1/4-28 x 3/8" screws

4. Repeat for other side.

Cradle (x2)

1"

#10 x 1/2" Screw
(2 per cradle)

1/4-28 x 3/8" Screw
(2 per cradle) AL020
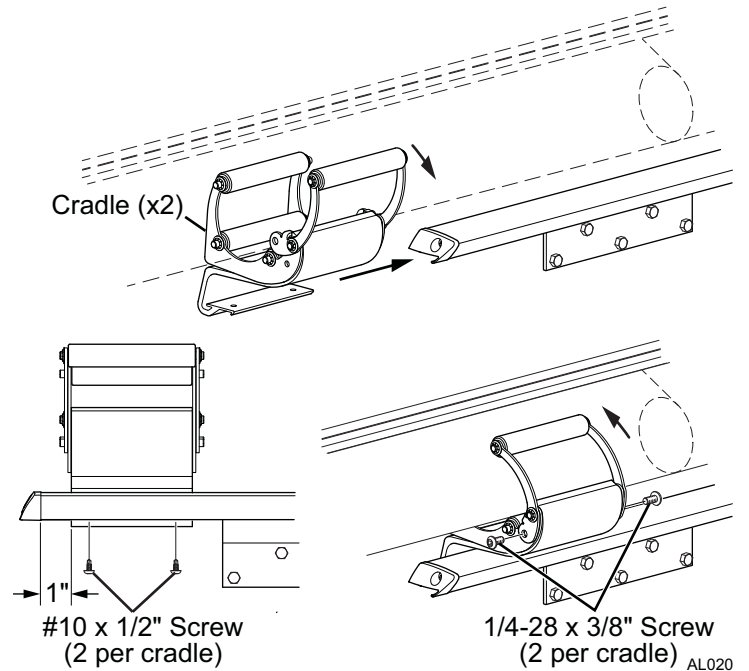
REMOVE THE LOCKING PINS

⚠ **CAUTION**   **The roller tube has a pre-wound spring. When the spring lock pin is removed, the roller tube spring will quickly roll up any slack material. Keep hands and fingers out of the way.**

1. Remove the spring locking pin from the end of the roller tube assembly. This is located on the right end of the roller tube.

2. Remove the orange float lock pin from both endcaps.

3. Open and close the room to check that the fabric is rolling up straight.

4. Secure the fabric to the awning rail using two (2) #8 x 1/2 self-drilling screws through the rail and fabric.

#8 x 1/2" Screw

Spring Lock Pin
(thru Roller Tube)

Float Lock Pin
(thru Endcap)

AL006