

OMBRA EXTERNAL AWNINGS



Installation Guide

Wire Guide



inspired spaces

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DISCLAIMER

INTRODUCTION

This Installation manual has been produced by Apollo Patios to supply the necessary information for safe and correct installation of this system.

INSTALLERS RESPONSIBILITY

Before installing, please read & ensure you understand the safety information and installation instructions as defined in this installation manual.

- If you do not fully understand these instructions, contact Rollease Acmeda for clarification before installing.
- The Installer is responsible to ensure that all installation personnel have been adequately trained on the safe & correct installation and operation.
- The Installer is responsible to ensure that a Job Safety Analysis or Safe Work Method Statement is completed prior to installation to identify hazards, to determine appropriate risk control measures and to implement the control measures.
- The Installer is responsible to ensure that supporting structures are sound and can adequately support the load.
- The Installer is responsible to ensure that the devices used to anchor the product to the supporting structure are suitable for the application.

SAFETY INFORMATION

- Ensure Job Safety Analysis/Safe Work Method Statement is completed and actions to reduce risks are implemented.
- Ensure that electrical works are done only by a LICENSED ELECTRICIAN.
- DO NOT modify any of the components of this system.

PERSONNEL REQUIREMENTS

Only suitably trained/qualified personnel should undertake installation.

DISCLAIMER

Apollo Patios has used reasonable care in preparing the information included in this document, but makes no representations or warranties as to the completeness or accuracy of the information. Information is supplied upon the condition that the persons receiving the information will make their own determination as to its suitability for their purposes prior to use. Apollo Patios assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein. Apollo Patios reserves the right to make changes without further notice to any products to improve reliability, function or design.

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TOOLS REQUIRED

- Saw
- Drill
- Screw Driver – Philips Head & Flat Head
- Jaw Pliers
- Allen Key Set
- Mallet
- Scissors
- Measuring Tape
- Pencil

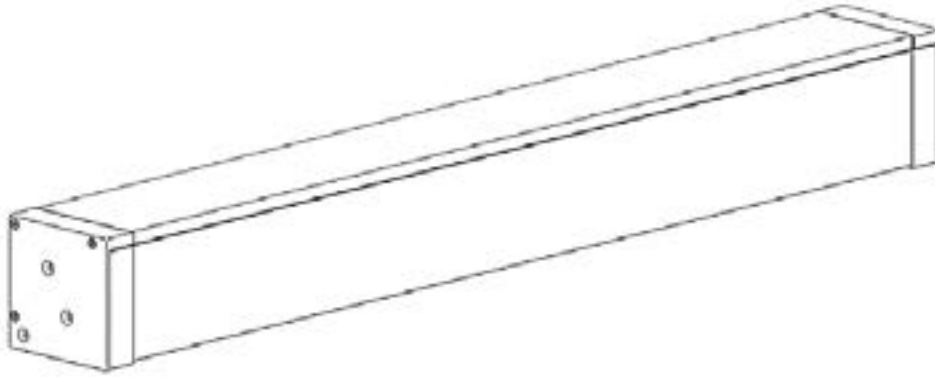
ADDITIONAL ITEMS REQUIRED (NOT SUPPLIED)

To assemble an EXTERNAL WIRE GUIDE, the following non-stocked items are required:

- Fixings for Box/Open Brackets/Hardware (ensure appropriate fixings are used to suit application)
- Trims to conceal packing (if required)

BLIND ITEMS REQUIRED

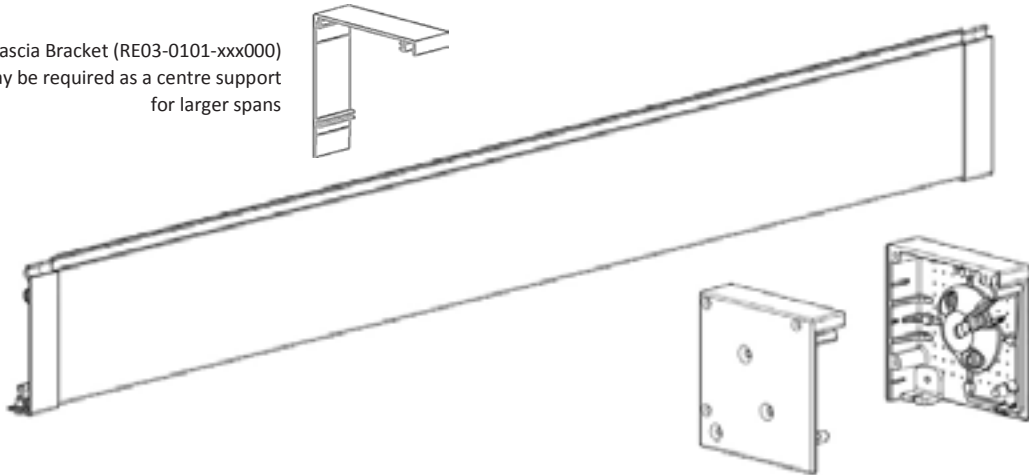
BOX



or

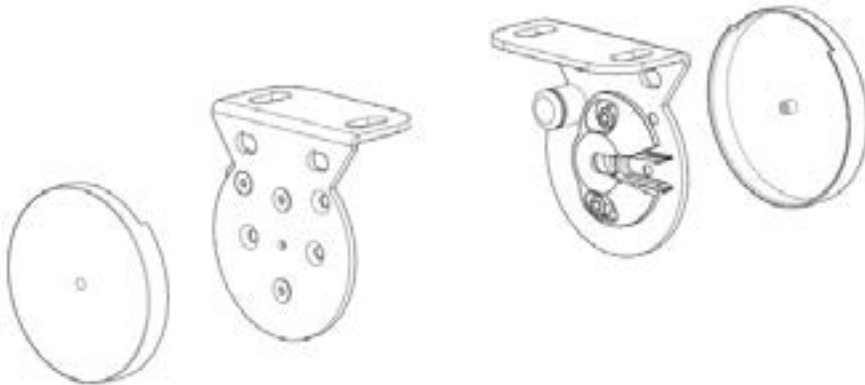
FASCIA

Fascia Bracket (RE03-0101-xxx000)
may be required as a centre support
for larger spans

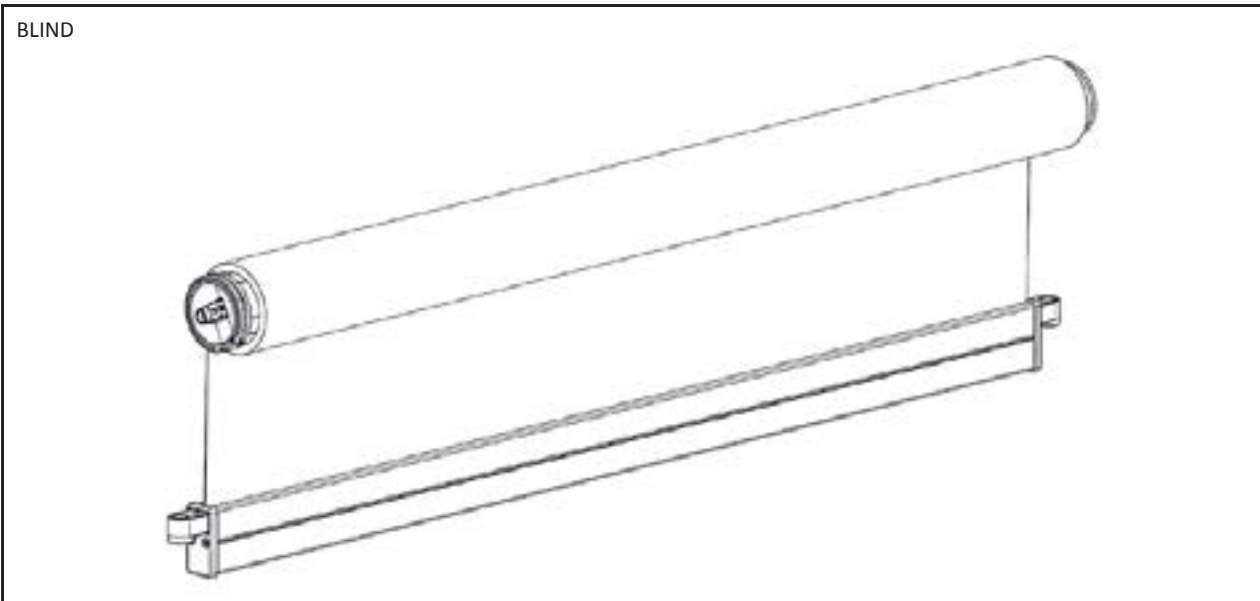


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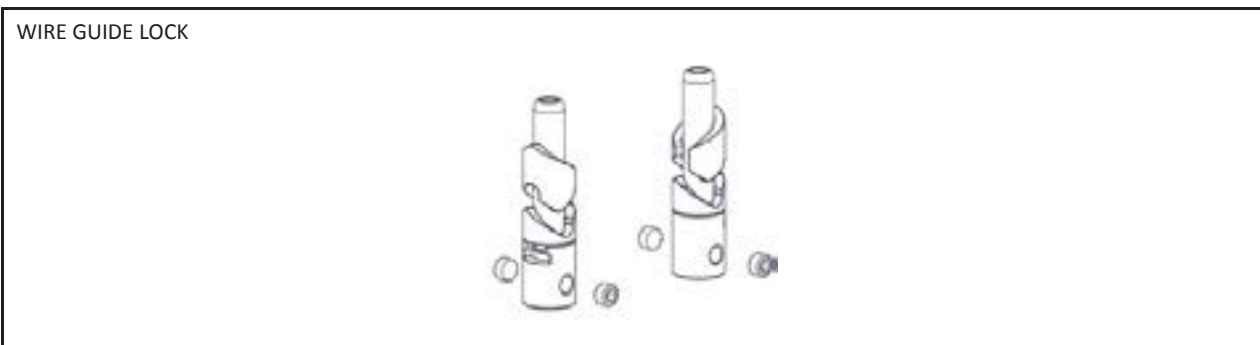
OPEN BRACKETS

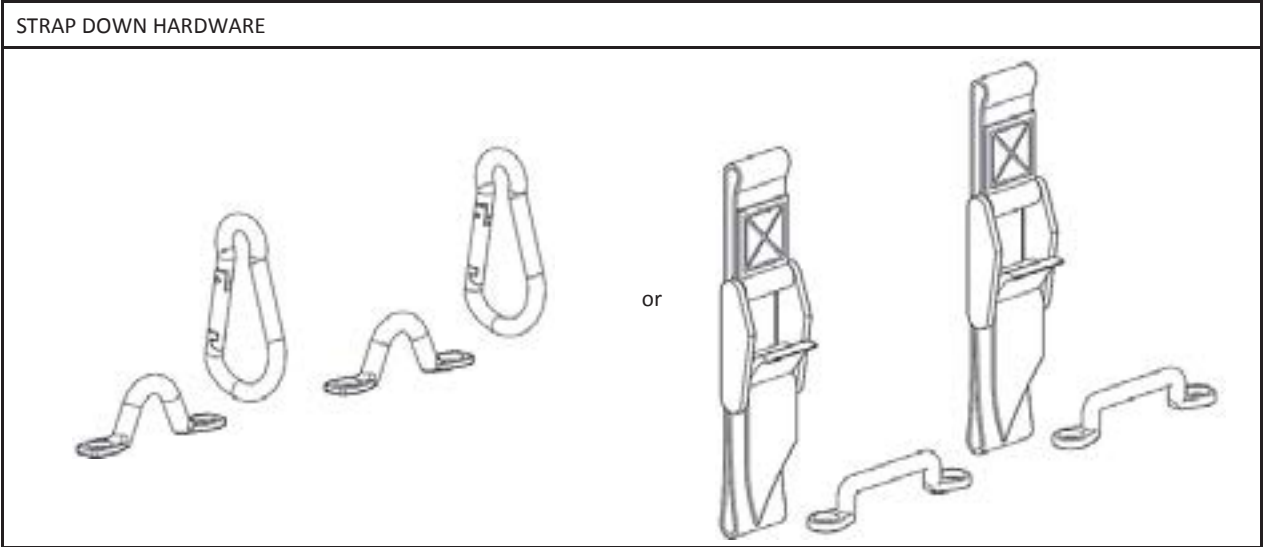


NOTE: Store clip until required (can be left in adaptor as shown)



WIRE GUIDE AND FIXING HARDWARE	
OPTION 1 – Hook Terminal	OPTION 2 - Clamp Terminal
	NOTE: Dome terminal must be cut/removed for this option





PART A – PREPARING INSTALLATION SPACE

STEP 1 – CHECK FOR OBSTRUCTIONS

Check for any obstructions that may interfere in installation.

STEP 2 – CHECK VERTICAL & HORIZONTAL INSTALLATION DIMENSIONS

VERTICAL DIMENSIONS

Check if top of installation space is level.

- If $H1 \neq H2$, corrective actions may need to be considered prior to installation

HORIZONTAL DIMENSIONS

If $W2 \geq W1$, $W1$ =Blind Width (proceed to Part B)

If $W2 < W1$, by a value of:
 0-20mm, Proceed to Part B ($W1$ = Blind Width)
 20+, Consider corrective action to square installation space

PART B – SPRING PRE-TENSIONING

STEP 1 – IDENTIFY NUMBER OF PRE-TURNS REQUIRED FOR BLIND SIZE

63mm TUBE [F56 Weight Bar]

Wraps	Drop (m)	WIDTH (m)																		System
		0.8	1.0	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	
2	0.5	4	5	9	9	11	12	14	16	17	19	14	15	16	17					
3	0.6	4	5	9	9	11	13	14	16	17	19	14	15	16	17					
3	0.7	4	5	9	10	11	13	14	16	17	19	14	15	16	17					
4	0.8	4	5	9	10	11	13	14	16	18	19	14	15	16	17					
4	0.9	5	5	9	10	11	13	15	16	18	19	14	15	16	17					
5	1.0	5	5	9	10	11	13	15	16	18	20	14	15	17	18					
5	1.1	5	5	9	10	12	13	15	17	18	20	14	16	17	18					
6	1.2	5	5	9	10	12	13	15	17	18	20	15	16	17	18					
6	1.3	5	5	9	10	12	14	15	17	19	20	15	16	17	18					
6	1.4	5	5	9	10	12	14	15	17	19	20	15	16	17	18					
7	1.5	5	5	9	10	12	14	16	17	19	21	15	16	17	18					
7	1.6	5	5	10	10	12	14	16	17	19	14	15	16	18	19					
8	1.7	5	5	10	11	12	14	16	18	19	14	15	16	18						
8	1.8	5	6	10	11	12	14	16	18	19	14	15	17	18						
8	1.9	5	6	10	11	12	14	16	18	20	14	16	17	18						
9	2.0	5	6	10	11	13	14	16	18	20	15	16	17	18						
9	2.1	5	6	10	11	13	15	16	18	20	15	16	17	18						
10	2.2	5	6	10	11	13	15	16	18	20	15	16	17	18						
10	2.3	5	6	10	11	13	15	17	18	20	15	16	17	19						
10	2.4	5	6	10	11	13	15	17	19	20	15	16	18	19						
11	2.5	5	6	10	11	13	15	17	19	21	15	16	18	19						
11	2.6	5	6	10	11	13	15	17	19	21	15	17	18	19						
12	2.7	5	6	10	11	13	15	17	19	21	15	17	18	19						
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12	2.9	5	6	11	12	14	15	17	19	21	16	17	18	19						
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13	3.2	6	6	11	12	14	16	18	20	15	16	17	19							
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15	3.5	6	6	11	12	14	16	18	20	15	16	18	19							
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15	3.7	6		11	12	14	16	18	20	15	16	18	11							
16	3.8	6		11	12	14	16	19	21	15	17	18	11							
16	3.9	6		11	12	15	17	19	21	15	17	11								
16	4.0			11	13	15	17	19	21	15	17	11								

Parameters: 573gsm fabric

LEGEND	DESCRIPTION	TOTAL No. of WRAPS + PRE-TURNS MUST NOT EXCEED
	RE01 Short Spring	26
	RE01 Light Spring	44
	RE01 Standard Spring	38
	RE01 Heavy Spring	31
	63mm Aluminium Tube Optimum Performance	
	78mm Steel Tube Optimum Performance	
	Cannot be achieved - outside product specifications	

The above charts are indicative only and indicate the minimum number of pre-turns required. Due to variances in fabric weights, additional ballast weight and installations the optimum number of pre-turns will vary. Pre-turns can be adjusted during installation.

78mm TUBE [F56 Weight Bar]

Wraps	WIDTH (m)																				System				
	Drop (m)	0.8	1.0	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2		4.4	4.6	4.8	5.0
2	0.5	5	7	10	11	13	10	11	13	14	9	10	10	11	12	12	13	14	8	8	8	9	9	10	
2	0.6	5	7	10	11	13	10	11	13	14	9	10	10	11	12	13	13	14	8	8	8	9	9	10	
3	0.7	5	7	10	11	13	10	12	13	14	9	10	10	11	12	13	13	14	8	8	9	9	9	10	
3	0.8	5	7	11	12	13	10	12	13	14	9	10	10	11	12	13	13	14	8	8	8	9	9	10	
3	0.9	5	7	11	12	14	10	12	13	14	9	10	11	11	12	13	14	8	8	8	9	9	10	10	
4	1.0	5	7	11	12	14	10	12	13	8	9	10	11	11	12	13	14	8	8	8	9	9	10	10	
4	1.1	5	7	11	12	14	11	12	13	8	9	10	11	11	12	13	14	8	8	8	9	9	10	10	
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14	4.0	7	8	13	14	11	13	14	9	10	11	12	13	14	15	14	8	8	8	9					

Parameters: 573gsm fabric

LEGEND	DESCRIPTION	TOTAL No. of WRAPS + PRE-TURNS MUST NOT EXCEED
	RE01 Short Spring	26
	RE01 Light Spring	44
	RE01 Standard Spring	38
	RE01 Heavy Spring	31
	RE01 Extra Heavy Spring	23
	78mm Aluminium Tube Optimum Performance	
	78mm Steel Tube Optimum Performance	
	Cannot be achieved - outside product specifications	

The above charts are indicative only and indicate the minimum number of pre-turns required. Due to variances in fabric weights, additional ballast weight and installations the optimum number of pre-turns will vary. Pre-turns can be adjusted during installation. Refer to Section 2, Part F, Steps 7 – 10.

78mm TUBE [F56 Weight Bar + 12mm Round Ballast]

Wraps	Drop (m)	WIDTH (m)																				System			
		0.8	1.0	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4		4.6	4.8	5.0
2	0.5	9	11	17	19	22	22	22	21	23	26	28	17	19	20	21	22	24	25	14	14	15	16	16	Box or Open Blind
2	0.6	9	11	18	19	22	22	22	22	24	26	28	17	19	20	21	22	24	13	14	14	15	16	16	
3	0.7	9	11	18	19	23	23	20	22	24	26	28	18	19	20	21	23	24	13	14	15	15	16		
3	0.8	9	11	18	20	23	23	20	22	24	26	28	18	19	20	22	23	12	13	14	15	15			
3	0.9	9	11	18	20	23	23	20	22	24	26	29	18	19	20	22	23	12	13	14	15	15			
4	1.0	9	11	18	20	23	23	20	22	24	27	29	18	19	21	22	12	13	14	14	15				
4	1.1	9	12	18	20	23	23	20	22	25	27	17	18	19	21	22	12	13	14	14					
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6	1.6	10	12	19	21	24	24	21	23	25	28	17	19	20	11	12	13								
6	1.7	10	12	19	21	24	24	21	23	26	16	18	19	20	11	12									
7	1.8	10	12	19	21	24	24	21	23	26	16	18	19	11	11	12									
7	1.9	10	12	19	21	25	25	21	24	26	16	18	19	11	12										
7	2.0	10	12	19	21	25	25	21	24	26	17	18	19	11											
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8	2.2	10	12	20	21	25	25	22	24	15	17	18	10												
8	2.3	10	12	20	22	25	25	22	24	15	17	18	10												
9	2.4	10	12	20	22	25	25	22	24	16	17	10													
9	2.5	10	13	20	22	25	25	22	24	16	17	10													
9	2.6	10		20	22	26	25	22	14	16	17														
10	2.7	10		20	22	26	25	22	14	16	9														
10	2.8	10		20	22	26	25	22	14	16															
10	2.9	10		21	22	26	20	23	15	16															
11	3.0	10		21	22	26	20	23	15	16															
11	3.1	11		21	23	26	20	23	15																
11	3.2			21	23	27	20	13	15																
12	3.3			21	23	27	20	13	15																
12	3.4			21	23	27	21	13	15																
12	3.5			21	23	27	21	14																	
13	3.6			21	23	27	21	14																	
13	3.7			21	23	18	21	14																	
13	3.8			22	23	18	12																		
14	3.9			22	24	19	12																		
14	4.0			22	24	19	12																		

Parameters: 573gsm fabric

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	78mm Steel Tube Optimum Performance	
	Cannot be achieved - outside product specifications	

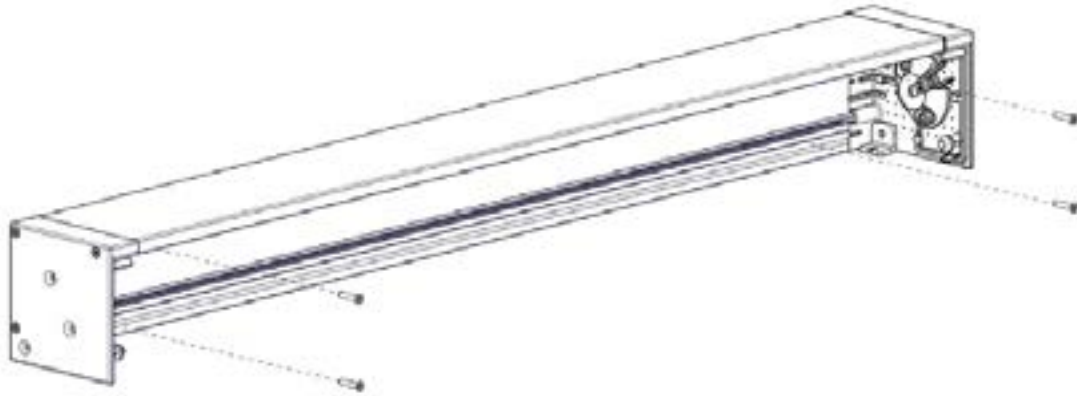
The above charts are indicative only and indicate the minimum number of pre-turns required. Due to variances in fabric weights, additional ballast weight and installations the optimum number of pre-turns will vary. Pre-turns can be adjusted during installation. Refer to Section 2, Part F, Steps 7 – 10.

STEP 2 – LOCK SPRING HEAD AT SPRING END	
	<p>LEFT HAND LOCKED</p>
STEP 3 – ENGAGE SPANNER ONTO PRE-TENSION SPINDLE	
<p>Slide Down to Engage</p>	
STEP 4 – ROTATE SPINDLE AS PER DIRECTION INDICATED ON LABEL	
<p>LEFT HAND Pre-Tension Clockwise</p>	<p>Remove Spanner</p>
<p>Pre-turn spring for number of times indicated in Section 2, Part B. A click will be heard for each turn</p>	

PART C – BOX INSTALLATION

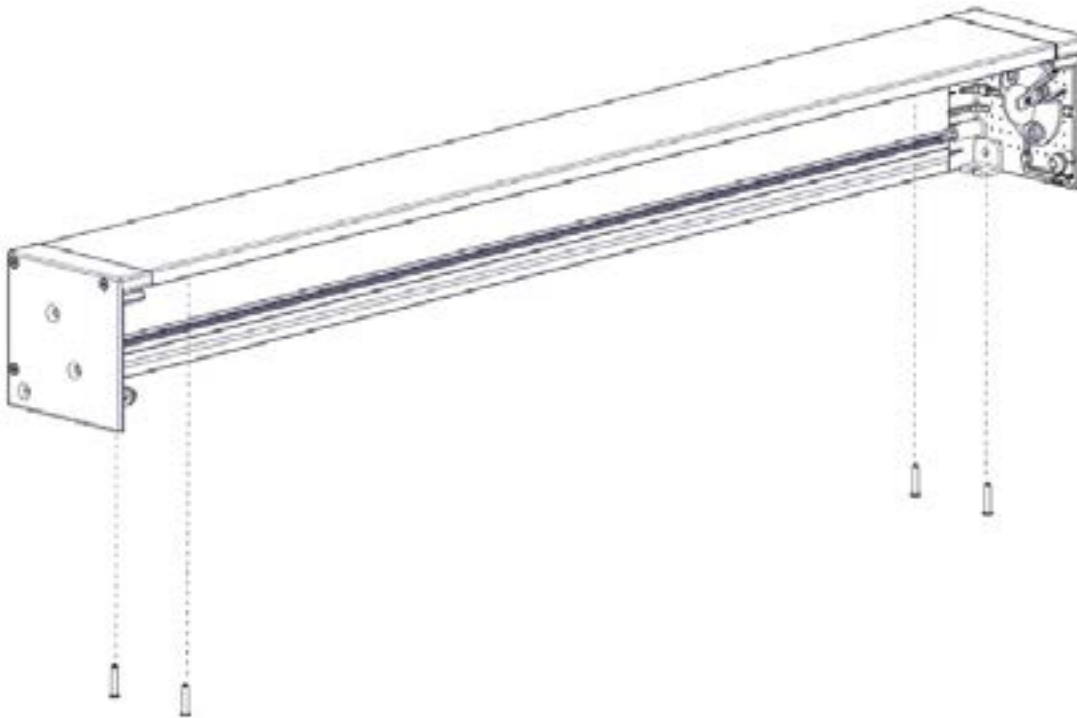
STEP 1 – INSTALL BOX TO WALL/CEILING

FACE FIX



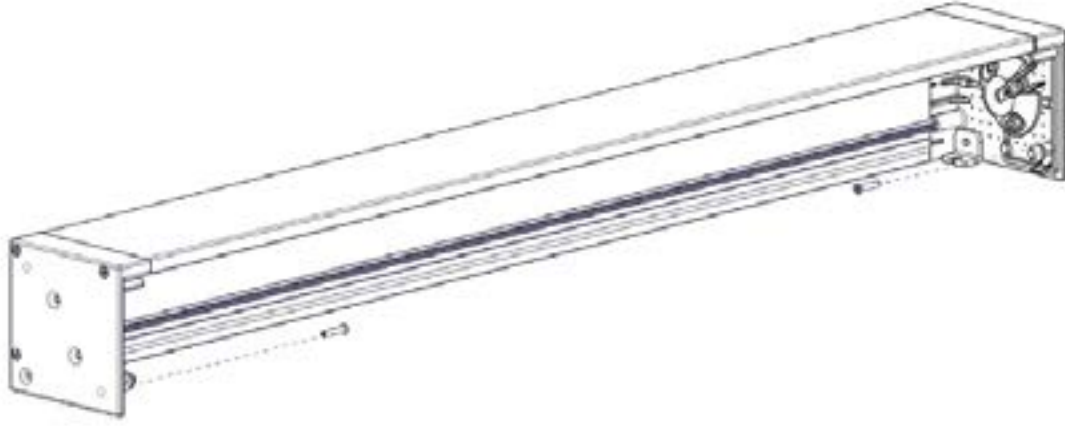
Note: Use appropriate fixings to suit application
Ensure Box is Aligned and Level

TOP FIX



Note: Use appropriate fixings to suit application
Ensure Box is Aligned and Level

SIDE FIX



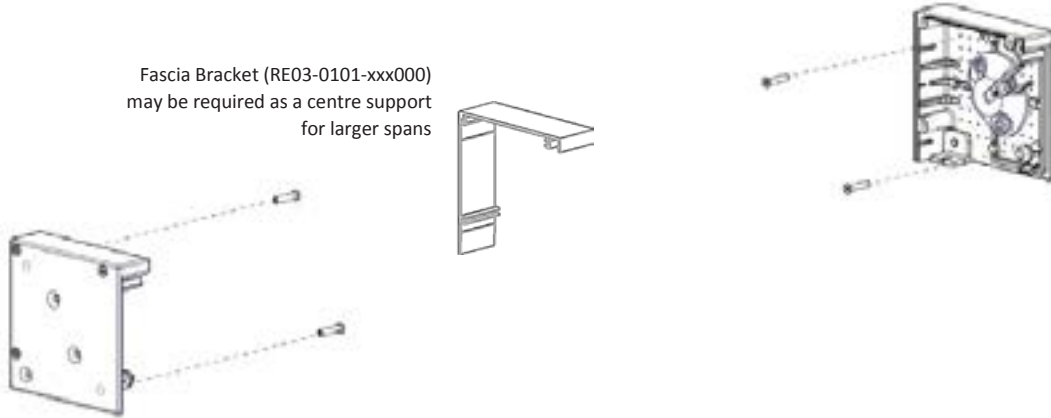
Note: Use appropriate fixings to suit application
Ensure Box is Aligned and Level

PART D – FASCIA INSTALLATION

STEP 1 – INSTALL END PLATES TO WALL/CEILING USING APPROPRIATE FIXINGS TO SUIT APPLICATION

FACE FIX

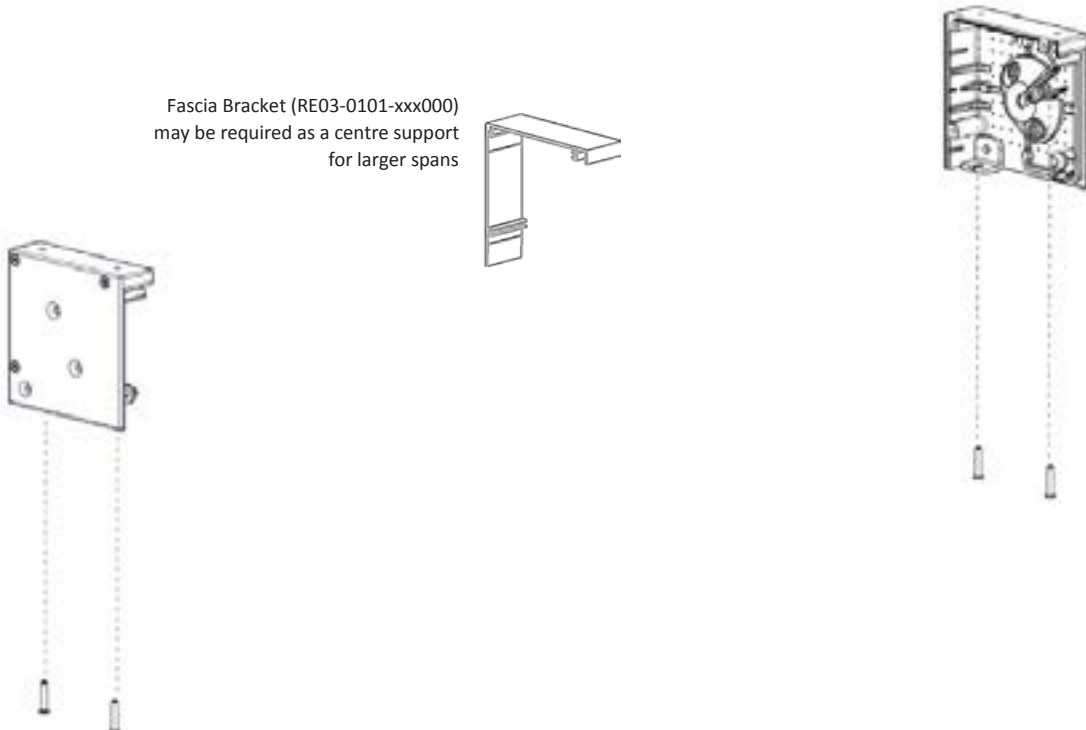
Fascia Bracket (RE03-0101-xxx000)
may be required as a centre support
for larger spans



Note: Use appropriate fixings to suit application
Ensure End Plates are aligned and level
Measure brackets end to end to confirm measurement is correct

TOP FIX

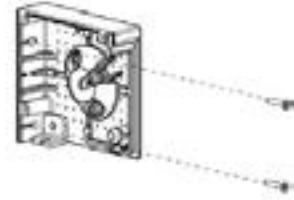
Fascia Bracket (RE03-0101-xxx000)
may be required as a centre support
for larger spans



Note: Use appropriate fixings to suit application
Ensure End Plates are aligned and level
Measure brackets end to end to confirm measurement is correct

SIDE FIX

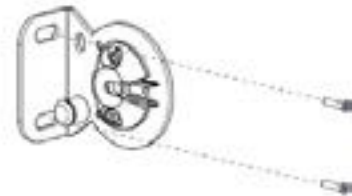
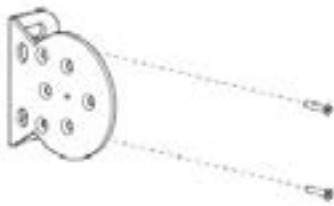
Fascia Bracket (RE03-0101-xxx000)
may be required as a centre support
for larger spans. If possible.



Note: Use appropriate fixings to suit application
Ensure End Plates are aligned and level
Measure brackets end to end to confirm measurement is correct

PART E – OPEN BRACKET INSTALLATION

FACE FIX



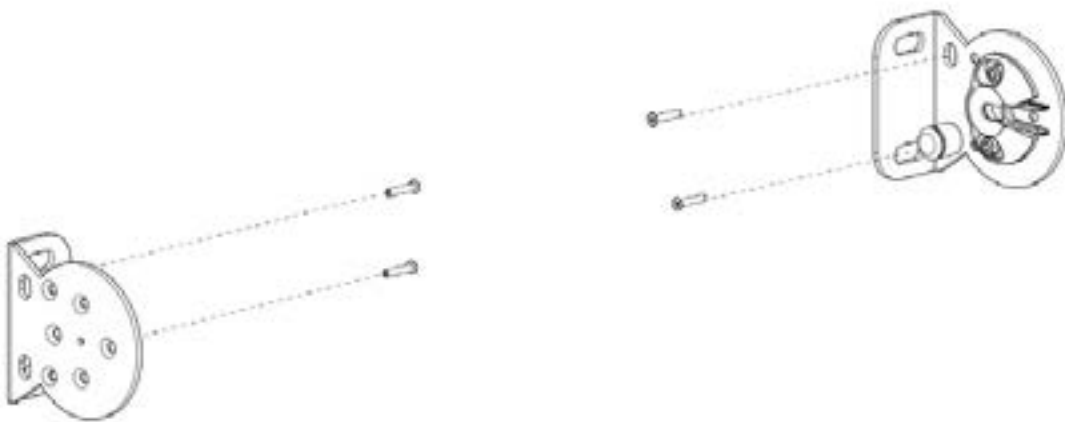
Note: Use appropriate fixings to suit application
Ensure brackets are aligned and level
Measure brackets end to end to confirm measurement is correct

TOP FIX



Note: Use appropriate fixings to suit application
Ensure brackets are aligned and level
Measure brackets end to end to confirm measurement is correct

SIDE FIX



Note: Use appropriate fixings to suit application
Ensure brackets are aligned and level
Measure brackets end to end to confirm measurement is correct

PART F – BLIND INSTALLATION

STEP 1 – MARK & SECURE WIRE GUIDE FIXINGS AND TRIM WIRE TO SUIT

Wire Centres	
BOX	19mm
OPEN (with Covers)	28mm
OPEN (without Covers)	19mm

NOTE: Cut wire to assist installation (ensure wire is not cut too short, excess can be trimmed later)

FLOOR FIX

FACE/SIDE FIX

FLOOR FIX
(Optional for securing to masonry)

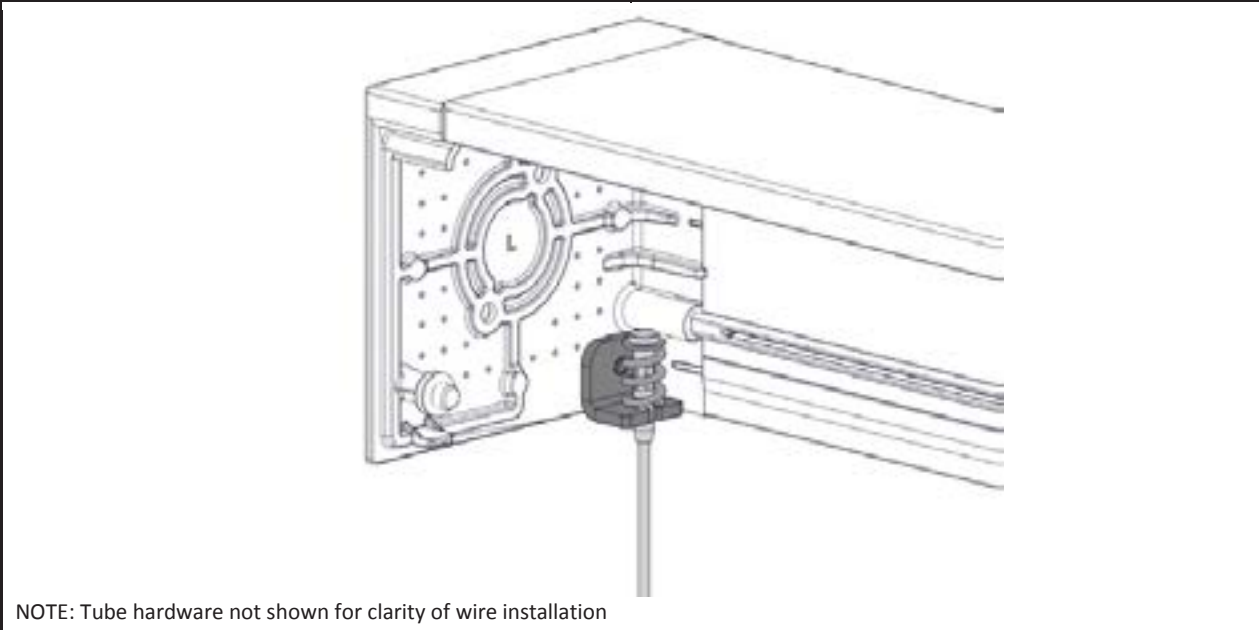
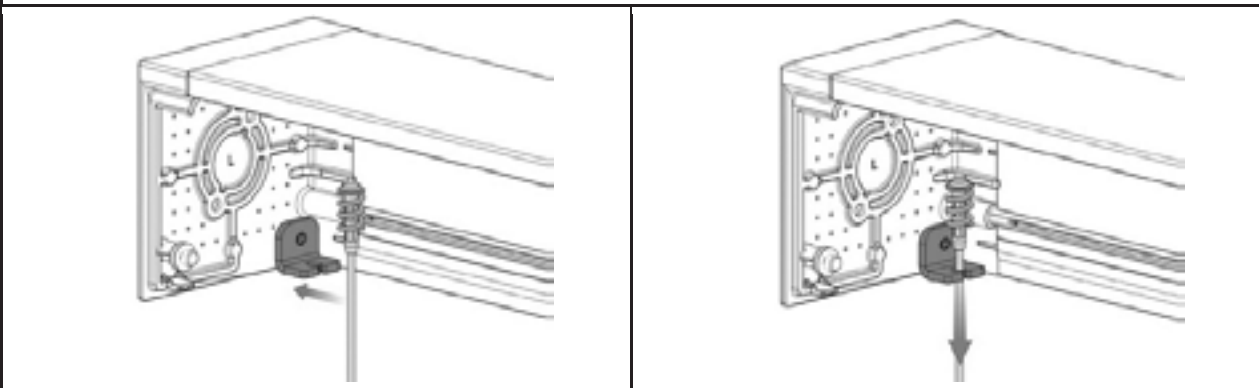
NOTE: Ensure fasteners suit substrate application
Max fastener size #10, Max Dynabolt Size: M6

STEP 2 – INSERT SPRING ONTO WIRE (OPTION 1)



STEP 3 – ATTACH WIRE AND SPRING TO BRACKET

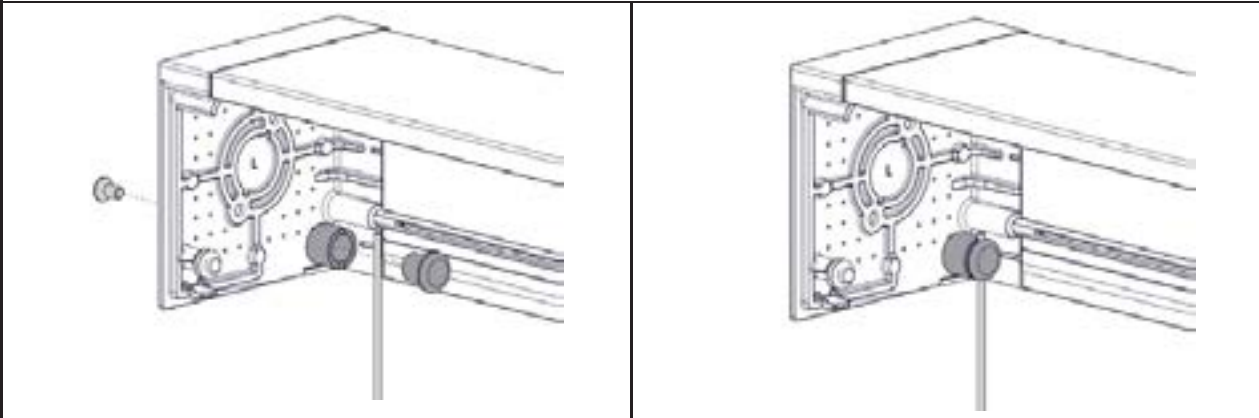
OPTION 1 – HOOK TERMINAL



NOTE: Tube hardware not shown for clarity of wire installation

OPTION 2 – CLAMP TERMINAL

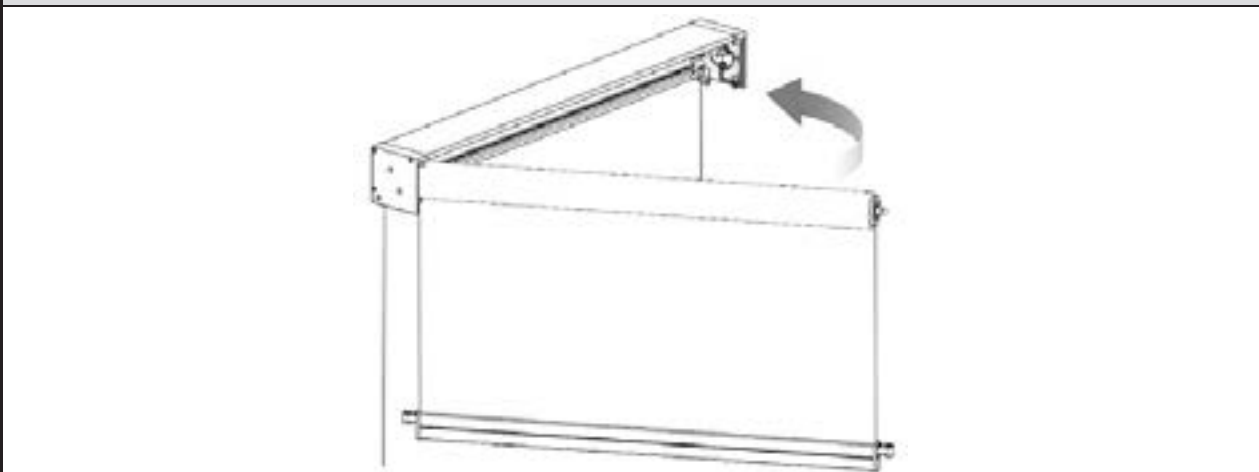
Insert wire between two terminal pieces and tighten screw to fix wire



Note:

- Dome Stud Terminal must be removed prior to installation
- Compression spring above cannot be used with Clamp Terminal

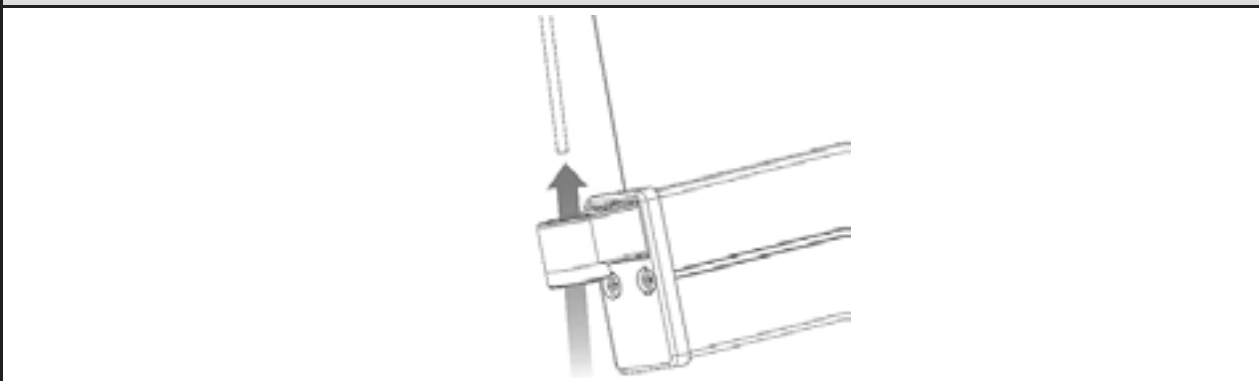
STEP 4 – INSERT BLIND INTO BOX



NOTE:

- Insert control end first
- Ensure blind is secure

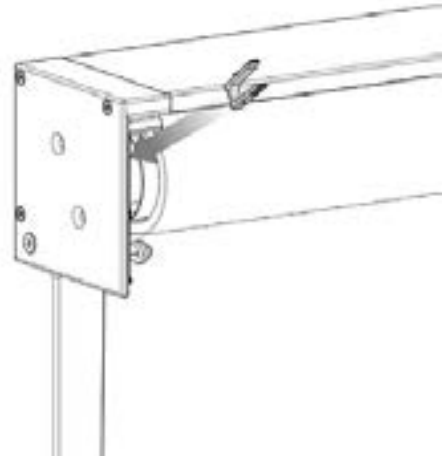
STEP 5 – INSERT WIRE THROUGH WEIGHT BAR END CAP FLOATS



STEP 6 – INSERT CLIP ONTO IDLER ADAPTER



Ensure it is clipped in securely

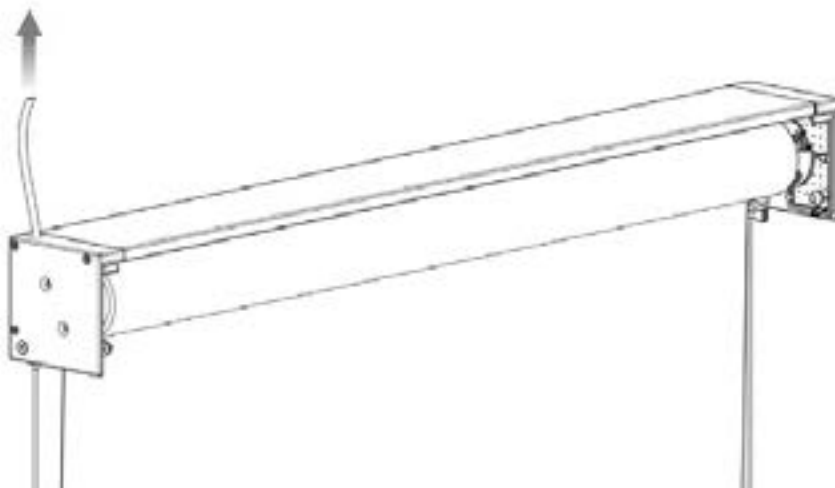


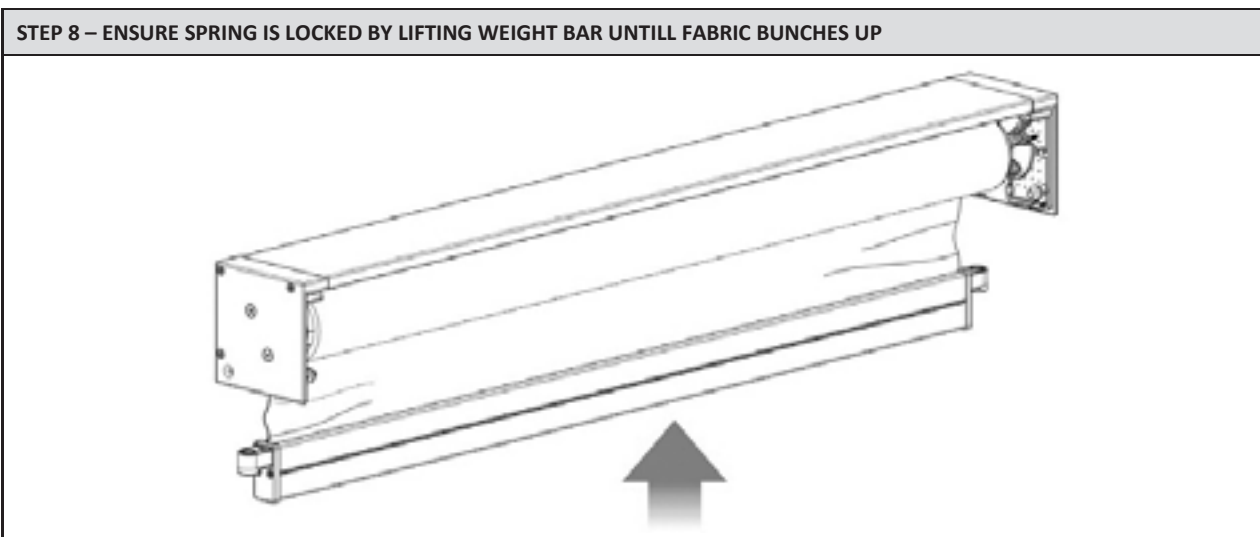
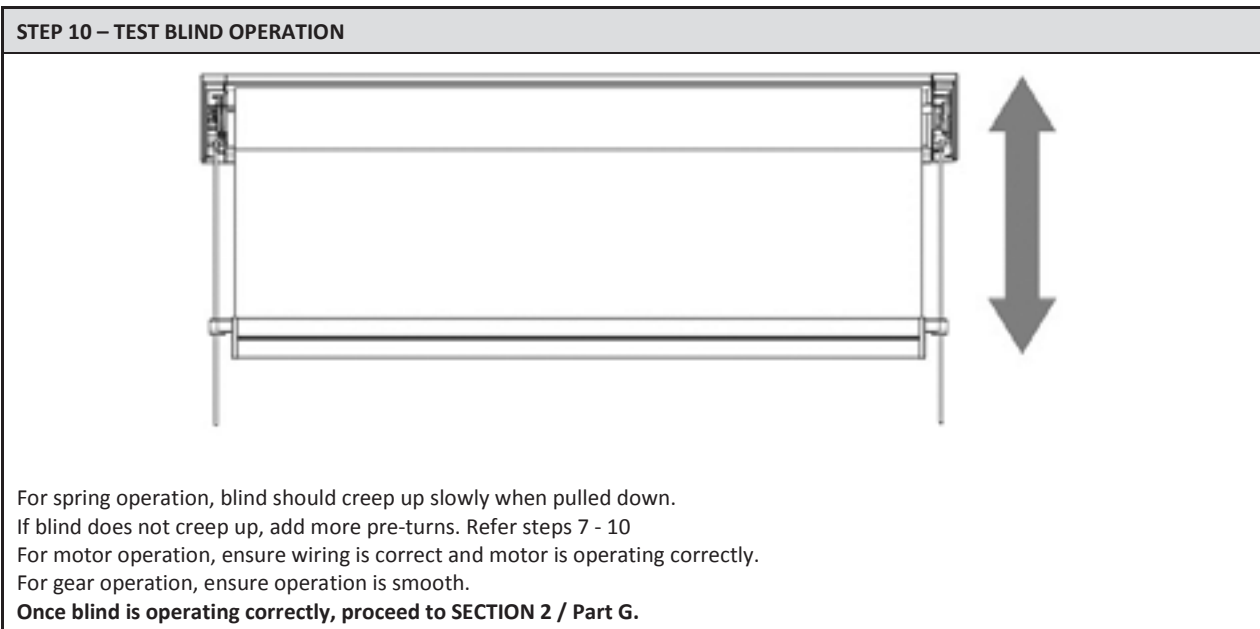
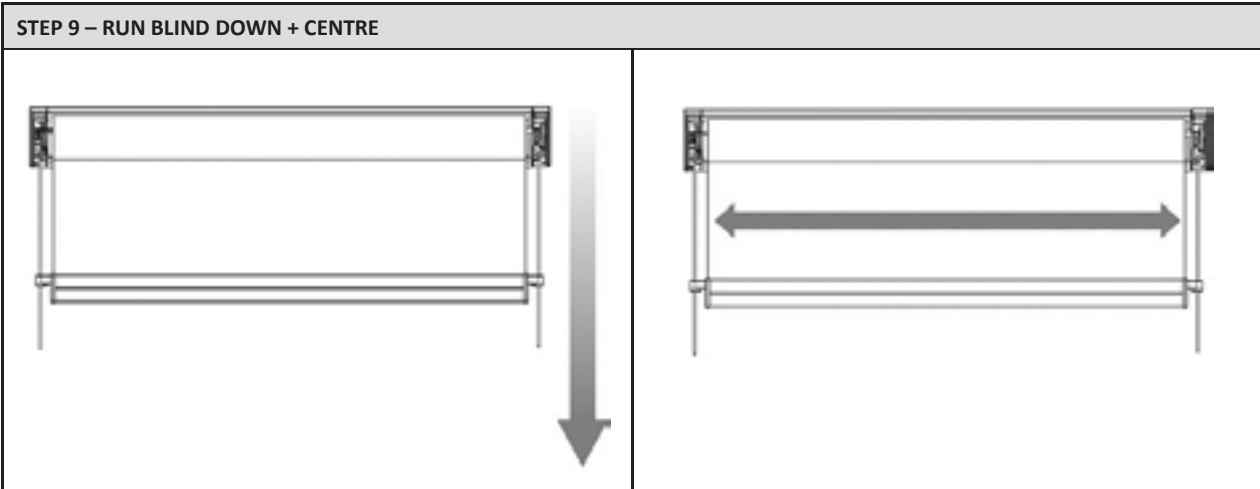
SPRING ONLY: Insert Clip at spring end

STEP 7 – UNLOCK PRE-TENSION HEAD AT SPRING END (FOR SPRING ONLY)

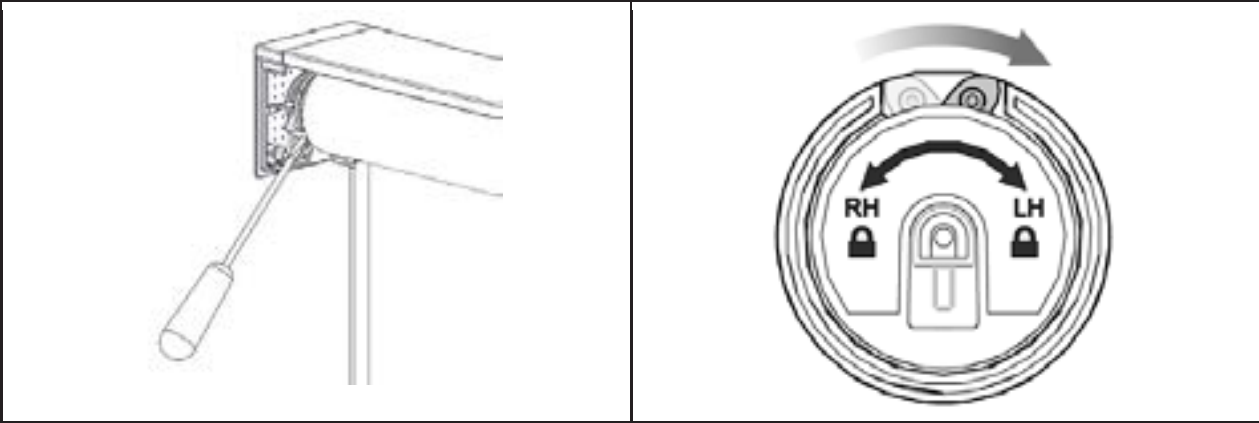


STEP 8 – FEED THROUGH MOTOR CABLE (FOR MOTOR ONLY)

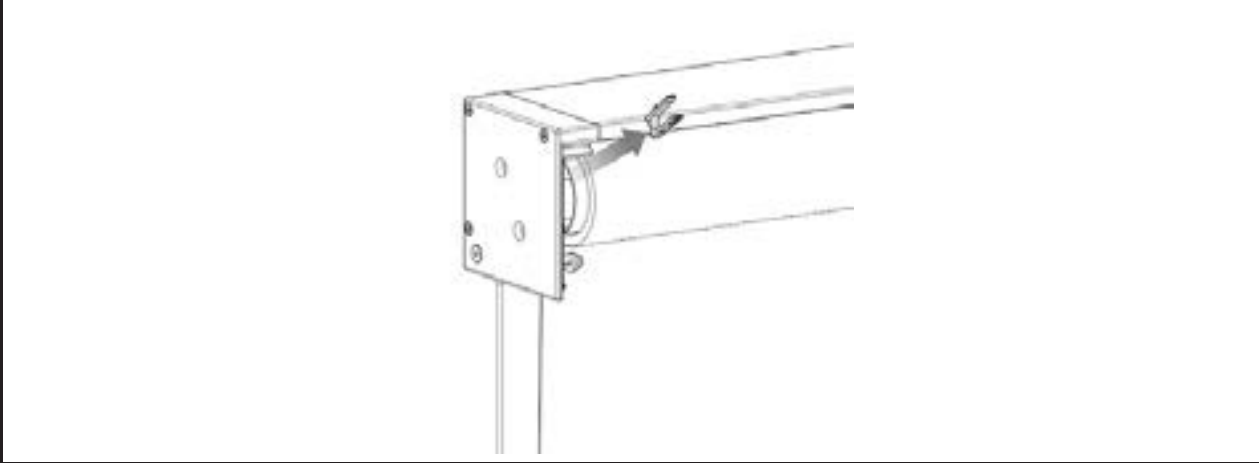




STEP 11 – TO ADJUST PRE-TURNS LOCK PRE-TENSION HEAD AT SPRING END (FOR SPRING ONLY)

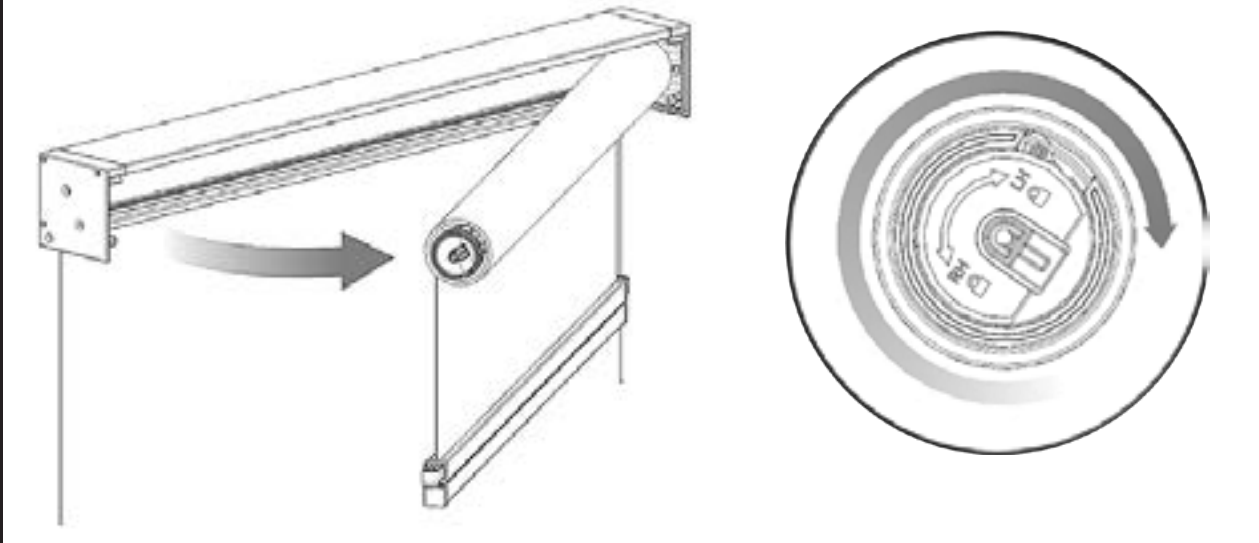


STEP 12 – DISENGAGE PRE-TENSION IDLER AT SPRING END FROM ADAPTER (FOR SPRING ONLY)



STEP 13 – ADD ADDITIONAL PRE-TURNS REQUIRED (FOR SPRING ONLY)

Add extra number of pre-tensions required.
Refer to Section 2, Part B, Steps 3-4 for details.
Note: Gradually increase the number of pre-turns required.



STEP 14 – RE-INSTALL AND TEST BLIND (FOR SPRING ONLY)



If too many pre-turns are added, the blind will automatically raise when installed.
Repeat steps 10-13 until blind is operating as required.

PART G – TENSION GUIDELINES

STEP 1 – SLIDE LOCK ONTO BOTTOM OF WIRE, POSITION HIGH TO KEEP OUT OF THE WAY AND TEMPORARILY CLAMP IN PLACE

	<p>NOTE:</p> <ul style="list-style-type: none"> • Use 2.5mm Allen Key • Ensure locks are below Weight Bar

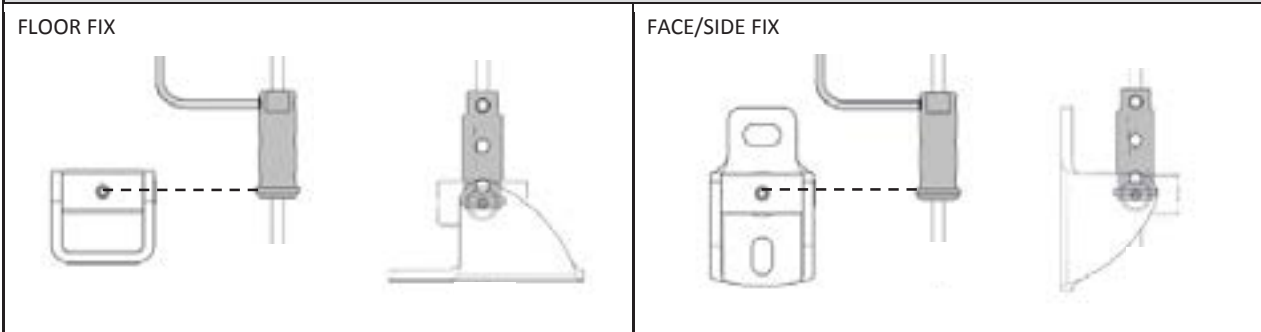
STEP 2 – SLIDE ADJUSTING SLEEVE THEN WIRE TERMINAL ONTO WIRE AND TIGHTEN UP OUT OF THE WAY

	<p>NOTE: Use 2mm Allen Key</p>

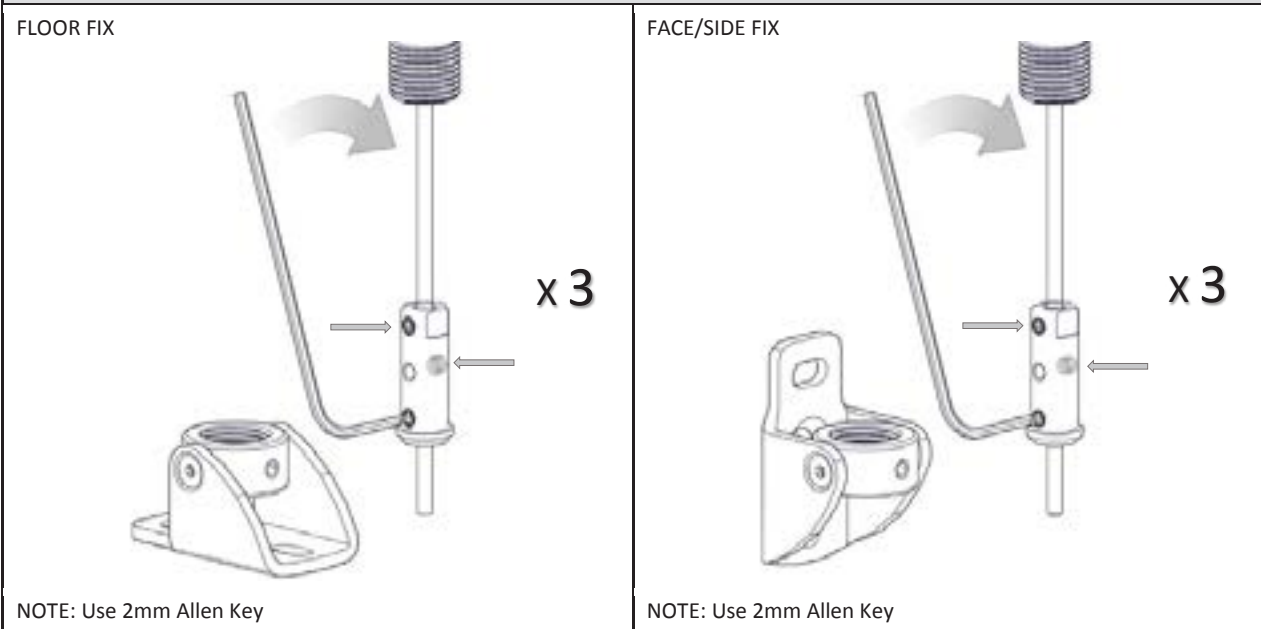
STEP 3 – FEED WIRE THROUGH SWIVEL BRACKET COLLAR

<p>FLOOR FIX</p>	<p>FACE/SIDE FIX</p>
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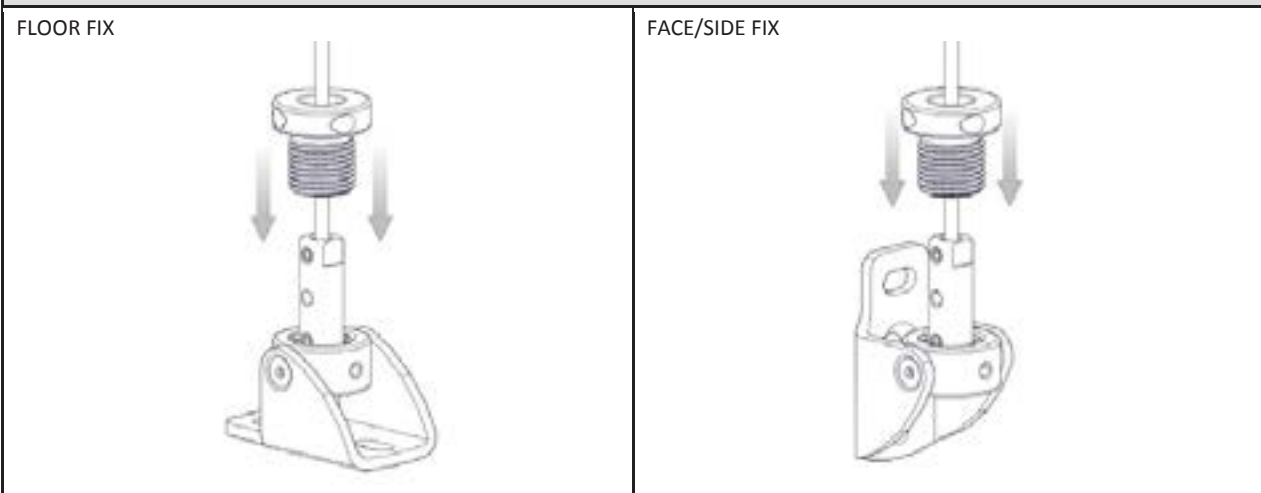
STEP 4 – PULL WIRE STRAIGHT AND ALIGN TERMINAL FLANGE WITH M4 GRUB SCREW, CLAMP TO WIRE



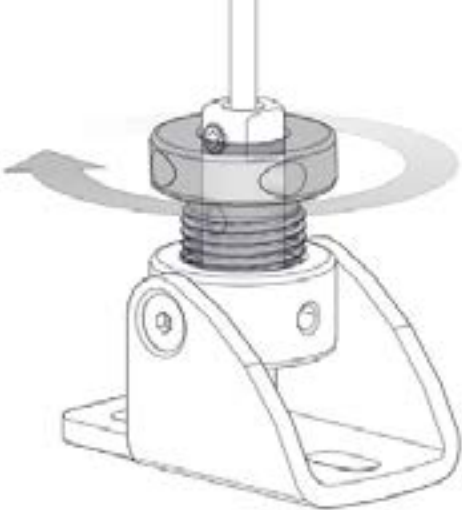
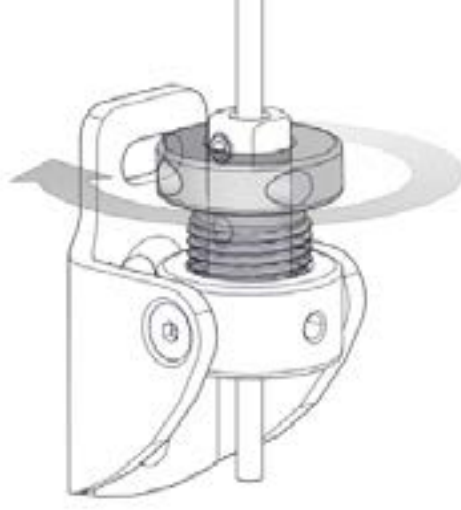
STEP 5 – TIGHTEN REMAINING GRUB SCREWS ON WIRE (TIGHTEN 3X GRUB SCREWS PER WIRE)



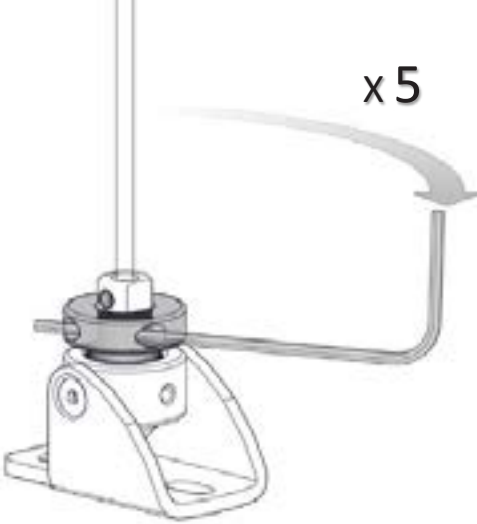
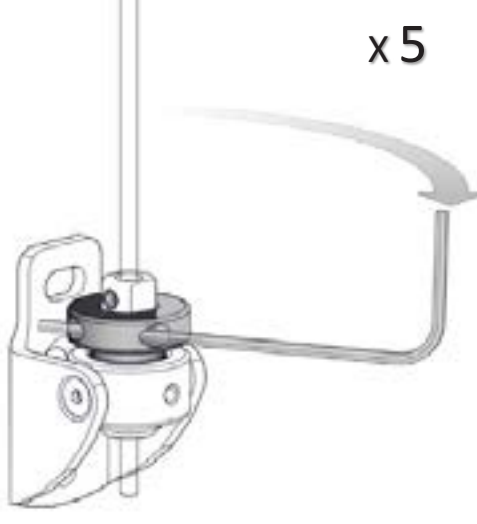
STEP 6 – LOWER ADJUSTING SLEEVE INTO COLLAR TO TENSION WIRE



STEP 7 – SCREW IN ADJUSTING SLEEVE UNTIL WIRE BEGINS TO TENSION

<p>FLOOR FIX</p> 	<p>FACE/SIDE FIX</p> 
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STEP 8 – TO APPLY MIN REQUIRED TENSION, TIGHTEN WITH 5X TURNS USING ALLEN KEY

<p>FLOOR FIX</p>  <p>x5</p>	<p>FACE/SIDE FIX</p>  <p>x5</p>
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NOTE: Use 4mm Allen Key

STEP 9 – ONCE TENSIONED SCREW IN GRUB SCREW TO PREVENT LOSING TENSION

<p>FLOOR FIX</p> <p>NOTE: Use 2mm Allen Key</p>	<p>FACE/SIDE FIX</p>
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STEP 10 – RELEASE LOCK AND SLIDE UP INTO WEIGHT BAR END CAP (LATCH)

<p>NOTE: Use 2mm Allen Key</p>	<p>Repeat for other side</p>
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STEP 11 – LOCKS SHOULD NOW MOVE WITH WEIGHT BAR

STEP 12 – MOVE WEIGHT BAR/LOCK TO LOWEST DESIRED LEVEL

Min 19mm

Choose lowest position for weight bar.
Min Ground Distance = 19mm approx.

STEP 13 – FIX LOCK IN PLACE WITH GRUB SCREWS (2 EACH SIDE)

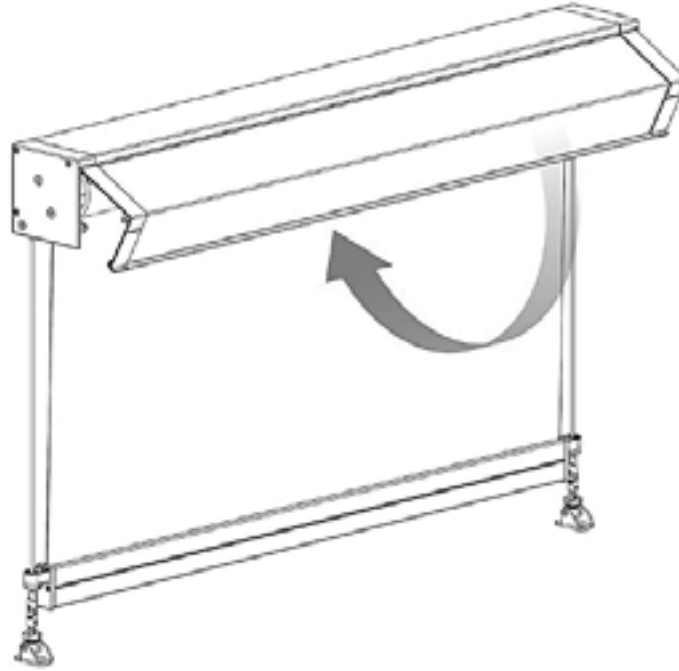
NOTE: Tighten set of 2 grub screws per wire

STEP 14 – TEST BLINDS WITH LOCKS

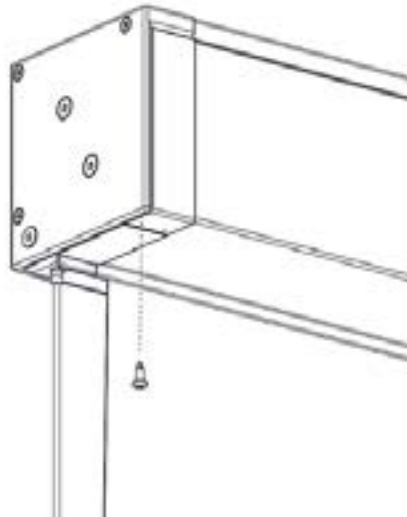
NOTE: Adjust lock heights if required (Refer to Section 2, Part G, Steps 11 to 14)

PART H – INSERT BOX / FASCIA

STEP 1 – SWING BOX COVER INTO BOX TOP AND CLIP INTO PLACE

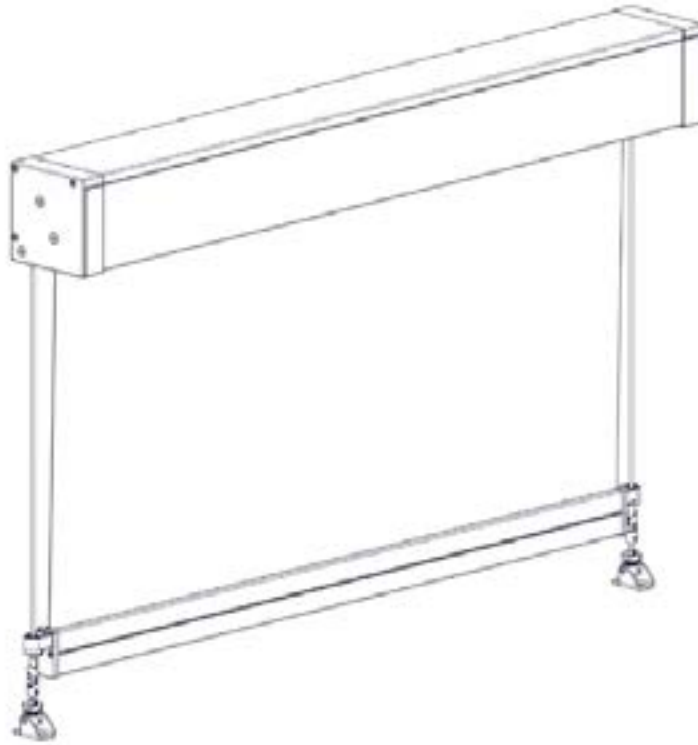


STEP 2 – SECURE COVER AT BOTH ENDS (IF REQUIRED)

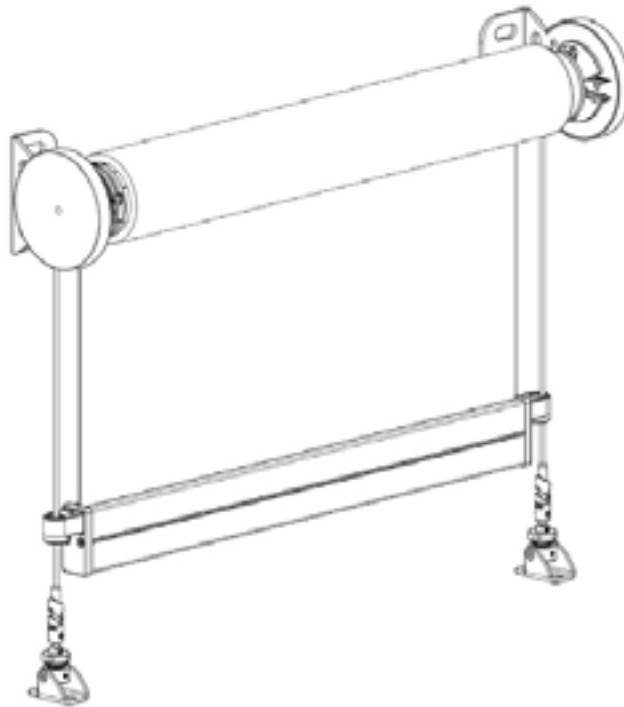


INSTALLED WIRE GUIDE


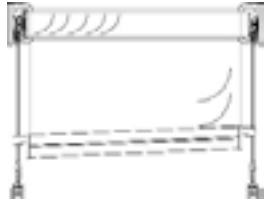
BOX



OPEN



SECTION 3 – TROUBLESHOOTING

NO.	PROBLEM	CAUSE	SOLUTION
1	Ripples along sides of fabric 	Blind rolled up for an extended period of time.	This occurrence is inherent to roller systems and is more prevalent in some fabrics. Leave blind down for 1 – 4 hours; most ripples should disappear.
		Not enough weight in weight bar.	Refer to Product Specs. Add ballast.
		Installation is not square.	Check blind roll is installed level.
		Fabric permanently damaged due to inadequate handling during assembly, transportation, installation or use.	Replace fabric and ensure it is handled with care.
2	Blind does not fully open / jams	Position of wire guides at base is incorrect.	Check if wire guide fixing at floor/base are positioned in line with the Top Terminal. If fixing is too far inwards of the terminal then reposition. Refer to Part C, Step 1 of this document for wire guide positioning details.
		Incorrect motor stop limits used.	Refer to motor instructions to reset stop limits.
3	Uneven weight bar 	Blind roll is not level, thus weight bar appears uneven.	Ensure blind is installed level.
		Blind has been operated in excessive wind conditions.	Check blind roll when the blind is fully raised. If ripples are evident on roll, open blind fully (without the presence of wind) to allow the blind to track down evenly. Raise and lower blind a number of times to check operation.
		Fabric is not installed straight.	Ensure fabric is assembled straight onto tube and weight bar.
4	Locks go out of sync	Locks are not level	Lower blind until fabric is slack then lift one side so that the lock disengages
		Uneven Weight Bar (see above)	
		Obstruction preventing weight bar lowering through lock	Remove obstruction to allow weight bar to reach its lowest point.



inspired spaces

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