

S100 Extreme System INSTALLATION MANUAL

April 2016



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 **ROLLEASE
ACMEDA**

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DISCLAIMER

INTRODUCTION

This installation manual for the S100 Extreme System has been produced by Rollease Acmeda to supply the necessary information for a safe and correct installation.

INSTALLERS RESPONSIBILITY

- Before installing the S100 Extreme System, 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 S100 Extreme System.
- The Installer is responsible to ensure that all installation personnel have been adequately trained on the safe & correct installation and operation of the S100 Extreme System.
- The Installer is responsible to ensure that a Job Safety Analysis is done 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 S100 Extreme System 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 the S100 Extreme System.

PERSONNEL REQUIREMENTS

Only suitably trained / qualified personnel should install S100 Extreme System

DISCLAIMER

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SECTION A - TOOLS, ADDITIONAL & NON-STOCKED ITEMS REQUIRED

TOOLS REQUIRED

To install an Extreme shade the following are required:

- Drill & bits
- Measuring tape
- Flat and Phillips head screw drivers
- Allen key set
- Mallet
- Level
- Plumb bob or equivalent
- Wrench / socket set

NOTE: Tools required may vary depending on installation conditions, fastening surfaces, etc.

NOTE: Tools required that can work with metric and imperial values

ADDITIONAL ITEMS REQUIRED (NON-STOCKED)

- Fasteners for mounting. Ensure appropriate fasteners are used to suit applications
- Hydraulic swaging tool (rent or purchase)
- Stainless Steel wire cutter (4mm wire min.)
- Spare wire guide crimp terminals to allow for wire guide assembly errors

Note: Hydraulic crimp terminals cannot be re-used

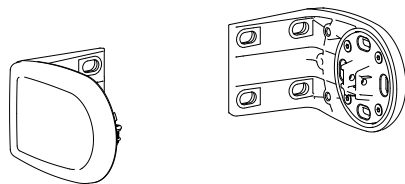
EXTREME SHADE ITEMS

Check that you have all shade items

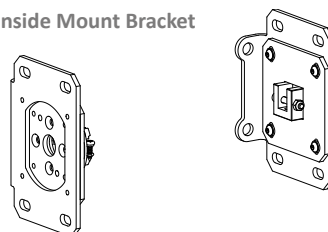
1. Brackets
2. Complete shade
3. Weight Bar End Caps
4. Stainless Steel Wire 316 - 4mm (1x19)
5. Fork Swage Terminal
6. Wire Guide Adapter Kit
7. Wire Guide Mounting Kit

1. Brackets

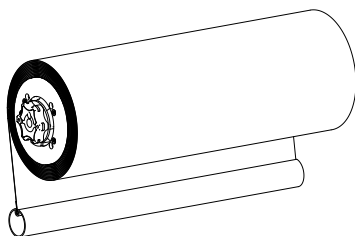
Ceiling / Outside Mount Bracket



Inside Mount Bracket



2. Complete Shade



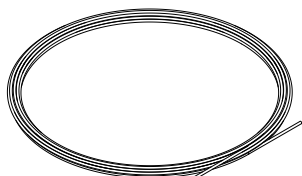
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EXTREME SHADE ITEMS cont...

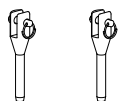
3. Weight Bar End Caps



4. Stainless Steel Wire



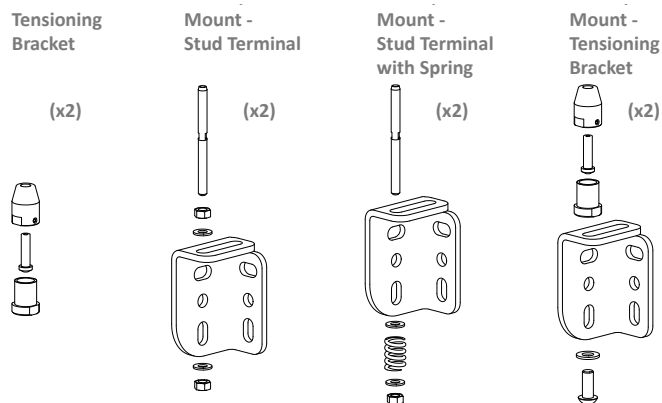
5. Fork Swage Terminal



6. Wire Guide Adapter Kit



7. Wire Guide Mounting Kit



Outside Mount, Motorised system using 130mm (5.11") tube primarily shown as example throughout manual.



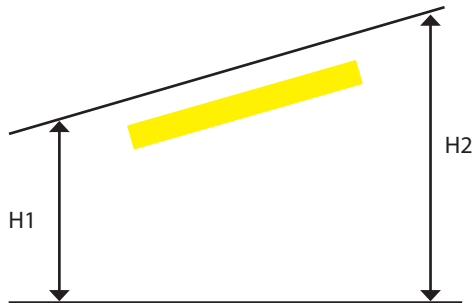
SECTION B - PREPARING INSTALLATION SPACE

STEP 01 – CHECK VERTICAL INSTALLATION DIMENSION AT EACH END

NOTE:

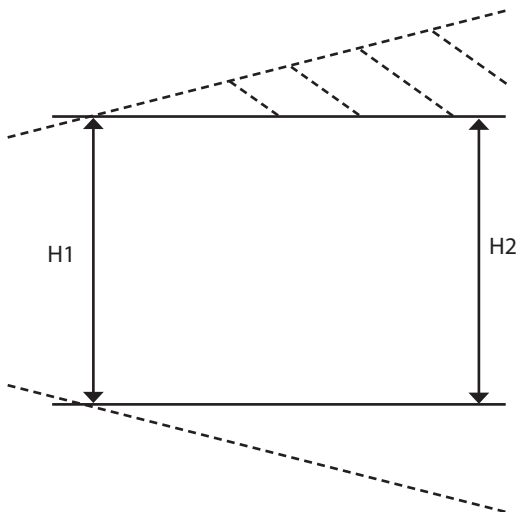
1. Avoid installing Extreme in windy conditions.
2. Check for any obstructions that may interfere with installation.

This may mean the installer needs to take steps to prepare the space prior to commencement of installation.



Check if Ceiling of installation space is level.
If not level go to Step 2
If level go to Step 3

STEP 02 – PACK AND LEVEL INSTALLATION SPACE AT SMALLEST DIMENSION (FOR CEILING MOUNT ONLY)



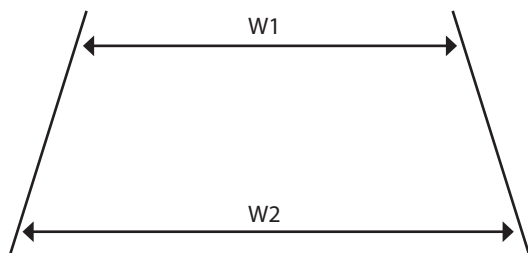
For Ceiling Mount systems, consider corrective options prior to commencing installation to ensure the shade can be installed level.



SECTION B - PREPARING INSTALLATION SPACE cont...

STEP 03 – CHECK HORIZONTAL INSTALLATION DIMENSIONS AT CEILING AND BOTTOM

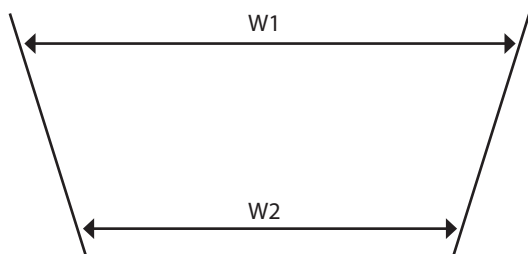
1



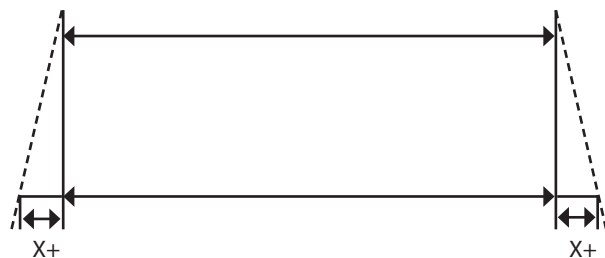
If difference between W1 and W2 is greater than 5mm (0.20"), go to step 4

If W1 and W2 are within 5mm proceed with installation, go to end.

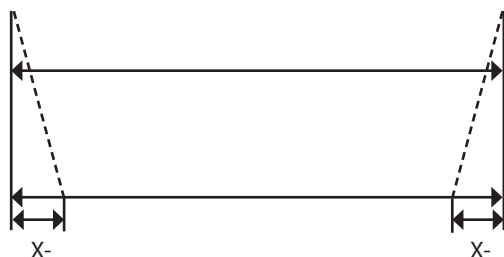
2



STEP 04 – MAXIMUM WIREGUIDE MOUNTING BRACKET ADJUSTMENTS



Determine what the dimension of x is on each side.



If adjustment range is adequate proceed with installation, if not consider further options for squaring out the installation space (such as packing, alternative bracket selection or other)

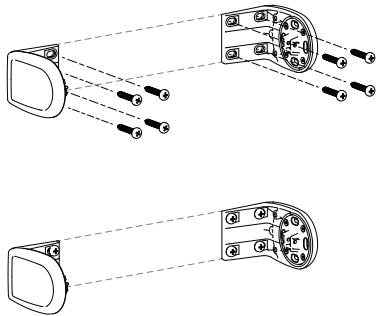
Maximum allowable adjustment in wire guide mounting bracket – Side Mounted		
Ceiling/Outside Mount	X+(outer) mm/side	X - (inner) mm/side
Gear	20mm (0.79")	15mm (0.59")
Motor	10mm (0.39")	25mm (0.98")
Pin End - Gear	15mm (0.59")	20mm (0.79")
Pin End - Motor	10mm (0.39")	25mm (0.98")
Side Mount	X+(outer) mm/side	X - (inner) mm/side
Gear	19mm (0.75")	16mm (0.63")
Motor	30mm (1.18")	5mm (0.20")
Pin End	30mm (1.18")	5mm (0.20")

SECTION C / PART 1 - BRACKET INSTALLATION

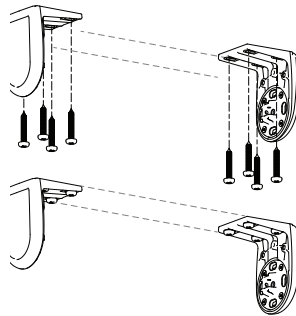
ATTACH BRACKETS TO WALL/ CEILING USING APPROPRIATE FASTENERS TO SUIT APPLICATION

[Refer to deductions for bracket positioning]
Ensure brackets are installed aligned and level.

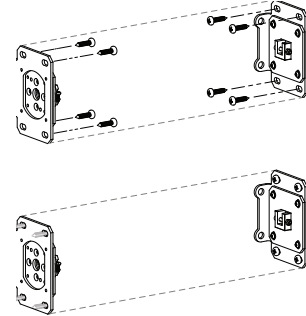
OUTSIDE MOUNT BRACKET



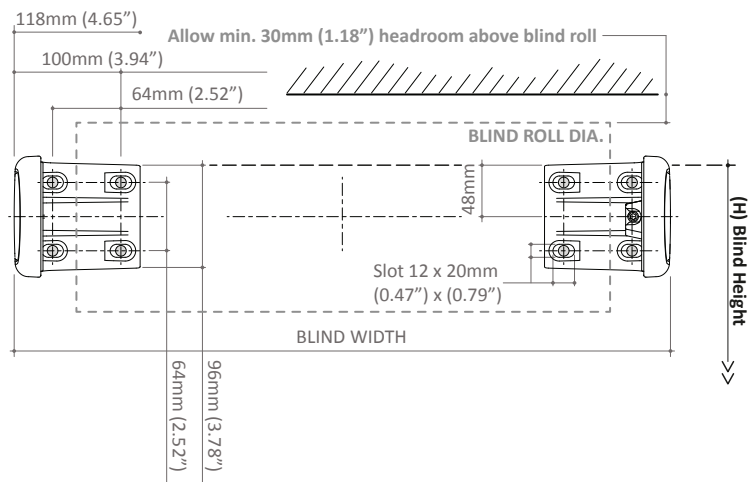
CEILING MOUNT BRACKET



INSIDE MOUNT BRACKET

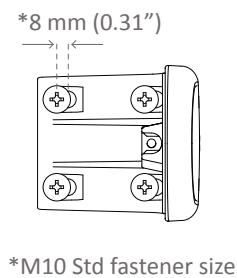


CEILING / OUTSIDE MOUNT BRACKET CENTERING & DIMENSIONS

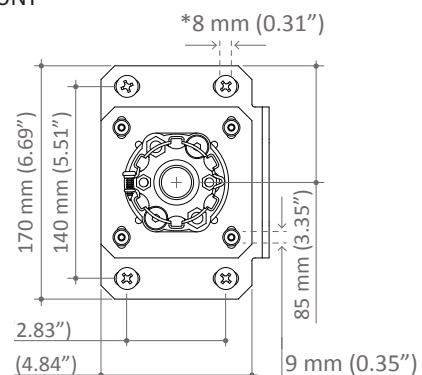


BRACKET POSITION ADJUSTMENT RANGE

CEILING/ OUTSIDE MOUNT

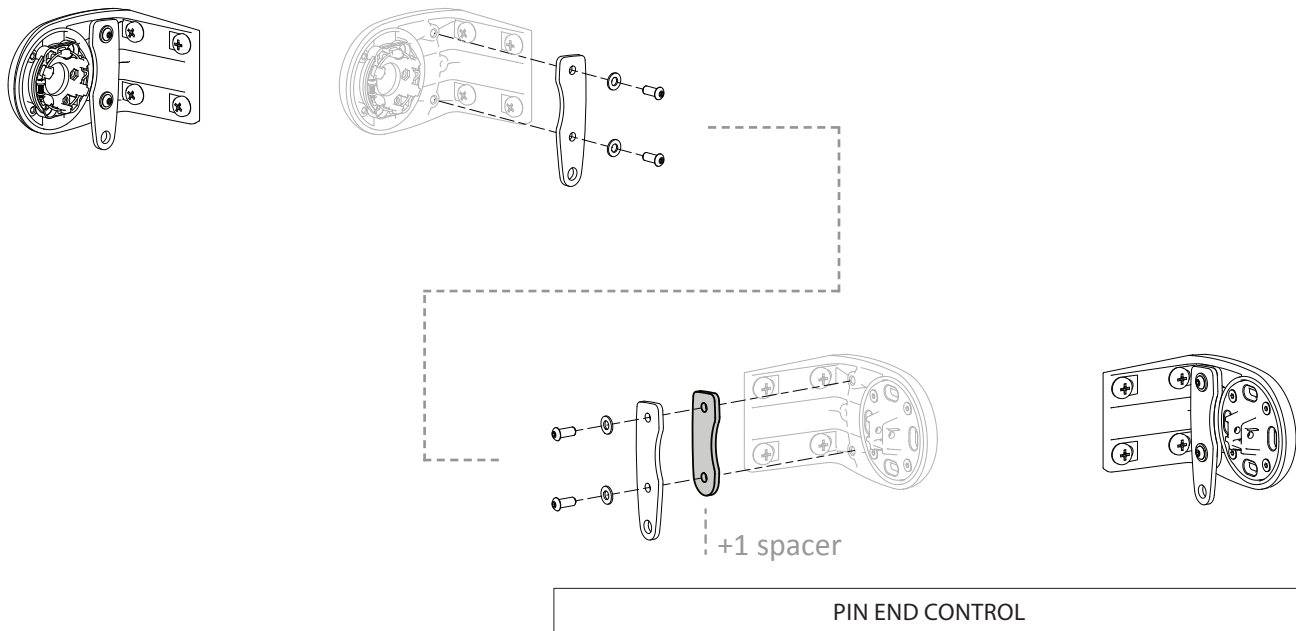


INSIDE MOUNT

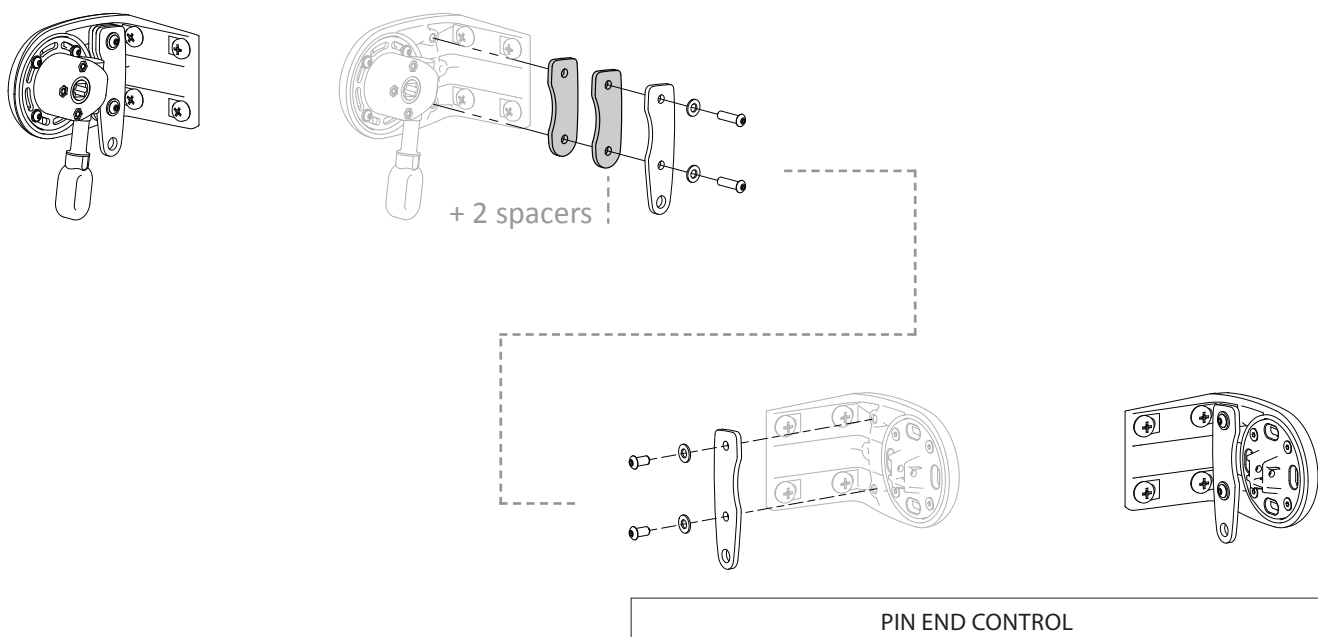


FOR CEILING / OUTSIDE MOUNT BRACKETS ATTACH WIRE GUIDE ADAPTOR (& SPACERS) AS REQUIRED

MOTOR CONTROL

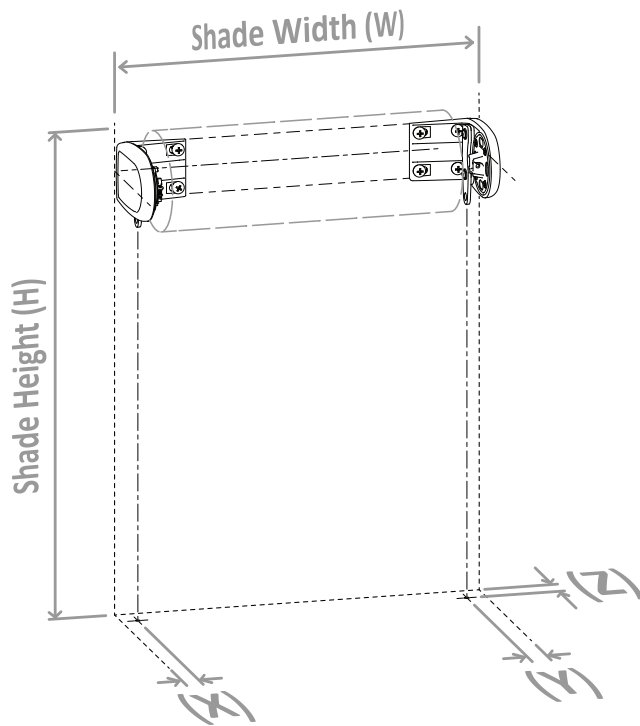


GEAR CONTROL



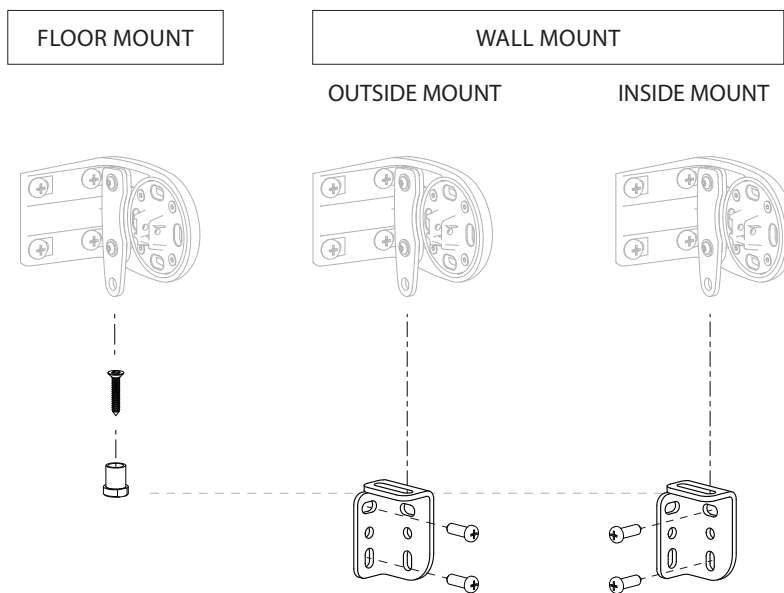
SECTION C / PART 2 - WIRE GUIDE INSTALLATION

STEP 1 - MARK OUT AND PREPARE THE WIRE GUIDE BRACKET MOUNTING POINTS ON THE FLOOR / WALL

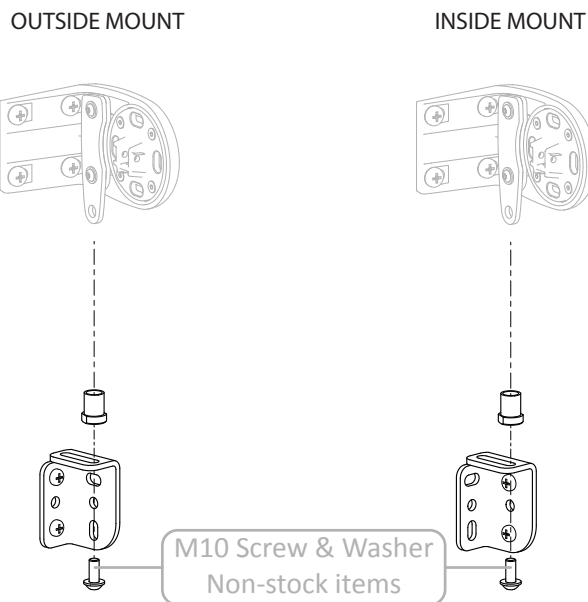


Note: Refer to deduction section for correct wire guide centres.

STEP 2 - SECURE TENSIONING BRACKET TO FLOOR / WALL

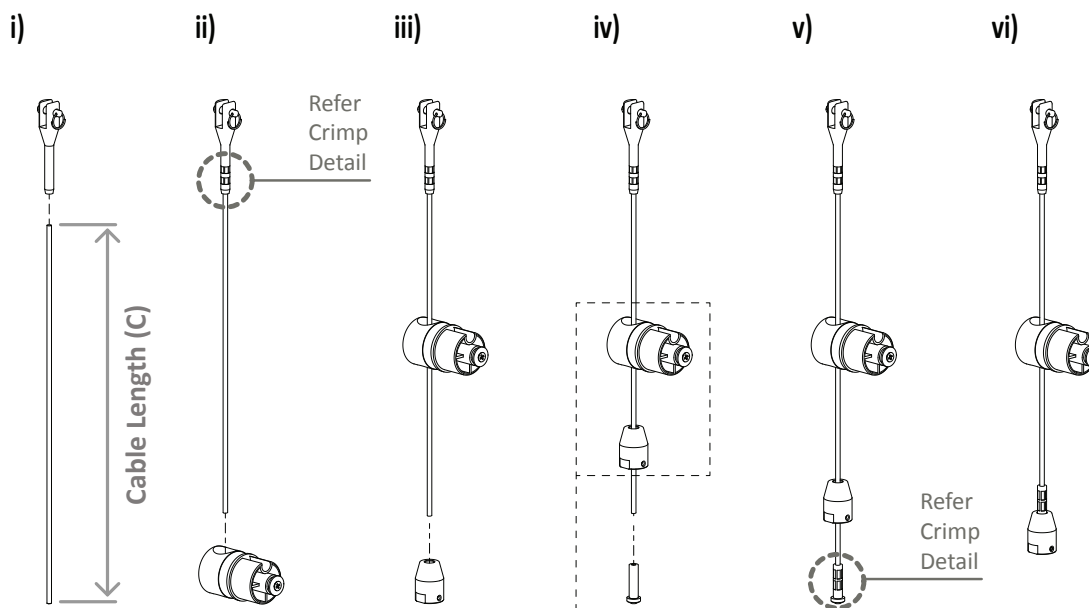


STEP 3 - FOR OUTSIDE / INSIDE MOUNT ONLY, ATTACH TENSIONING BODY TO MOUNTING BRACKET



STEP 4 - PREPARE WIRE ASSEMBLIES

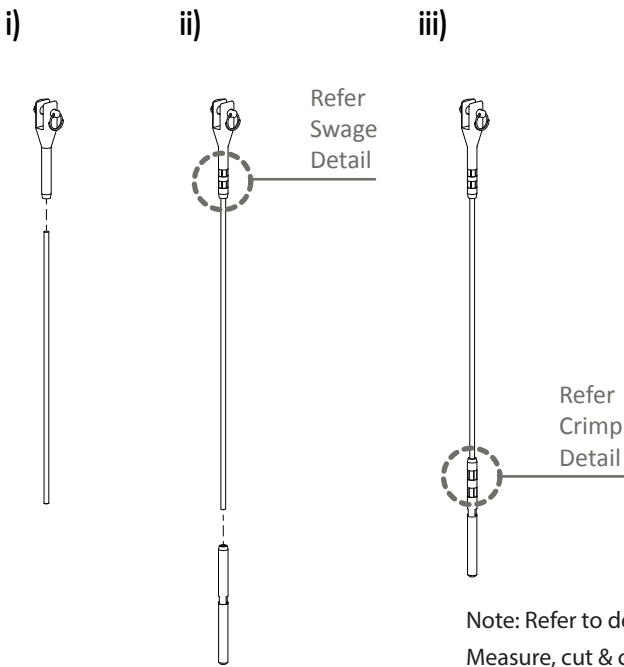
TENSIONING BRACKET - FLOOR / INSIDE / OUTSIDE MOUNT



Note: Refer to deductions for theoretical cable lengths. Measure, cut & crimp wire onsite to validate & ensure correct cable length.

STEP 4 - PREPARE WIRE ASSEMBLIES cont...

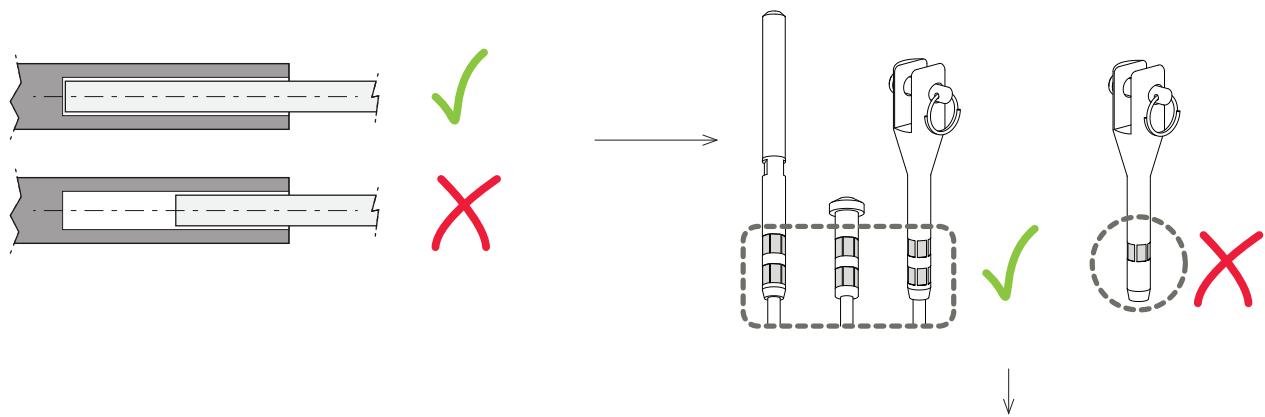
STUD TERMINAL - INSIDE / OUTSIDE MOUNT



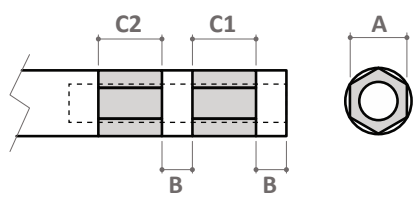
Note: Refer to deductions for theoretical cable lengths.
Measure, cut & crimp wire onsite to validate & ensure correct cable length.

MINIMUM CRIMP SPECIFICATIONS

- a) Ensure cable is fully inserted into terminal b) Ensure 2x crimps minimum per terminal.



- c) Crimp guide - refer to tools section for recommended crimp tool.
Refer to table below for guide of crimp position and sizing for all terminals.

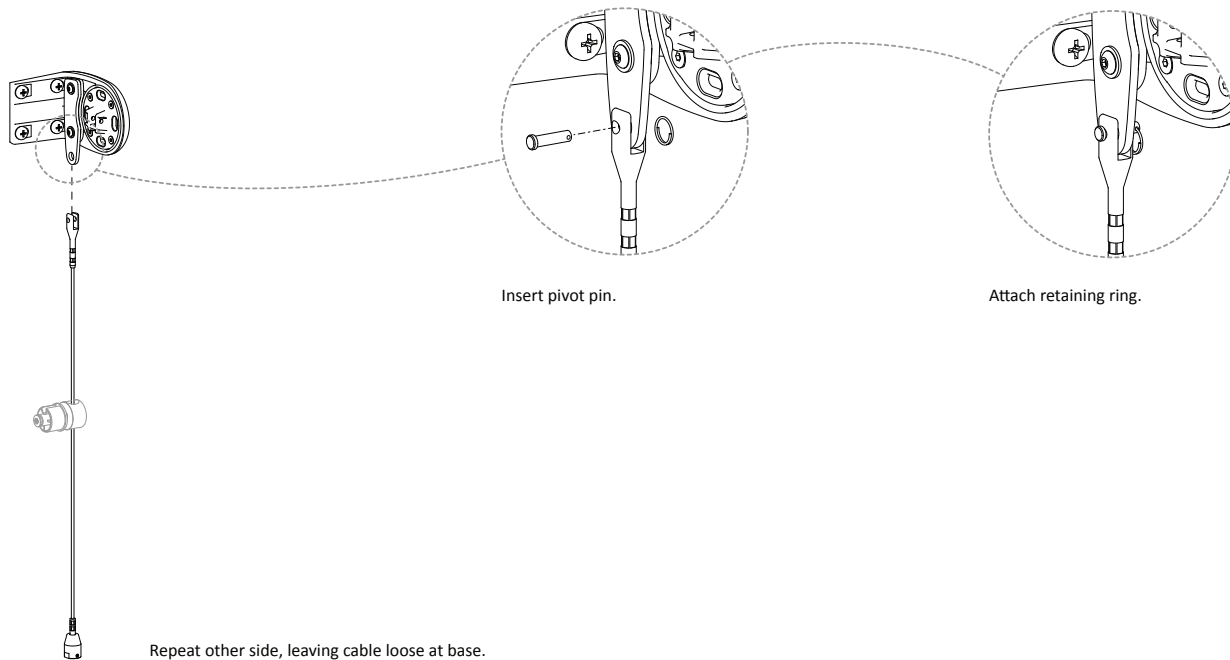


Item	Size (mm)	Size (in)
A (Crimp Hex AF)	6.5	0.26"
B (Crimp spacing)	3.0	0.12"
C1/C2 (Crimp length)	7.5	0.30"

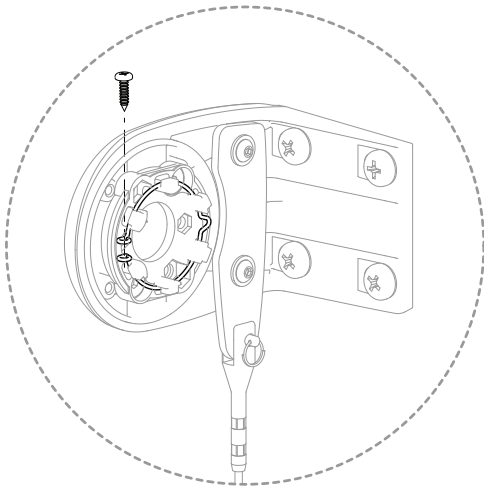
NOTE: Ensure jaws of crimp tool close completely to acheive maximum possible crimp strength - use dimension A as a guide.

STEP 5 - ATTACH FORK TERMINAL (CRIMPED) TO WIRE GUIDE ADAPTOR

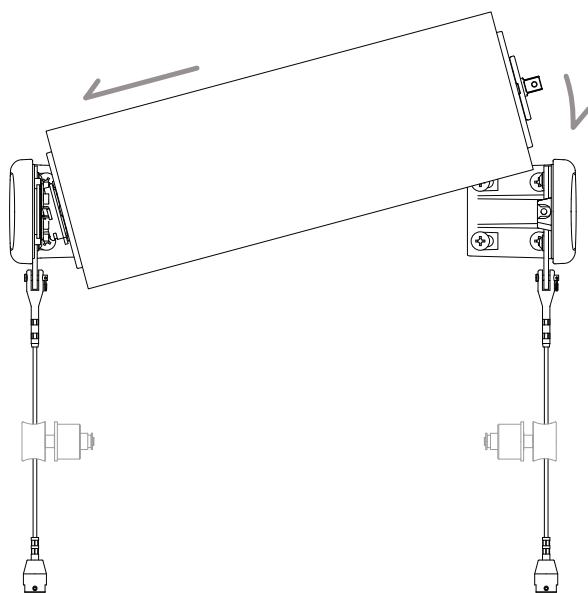
Pin End side shown as reference



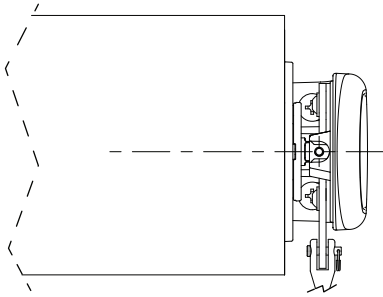
STEP 1 - REMOVE RETAINING SCREW FROM LOCK RING OF ZAMACK ADAPTOR. (MOTOR BRACKET)



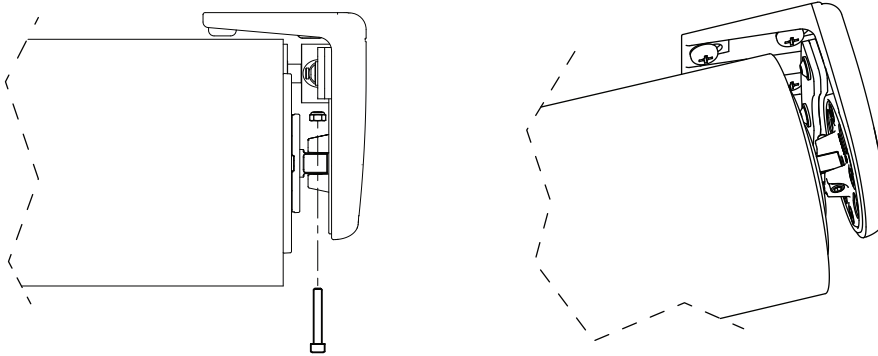
STEP 2 - INSTALL SHADE ONTO THE BRACKETS - INSERT CONTROL END IN FIRST.



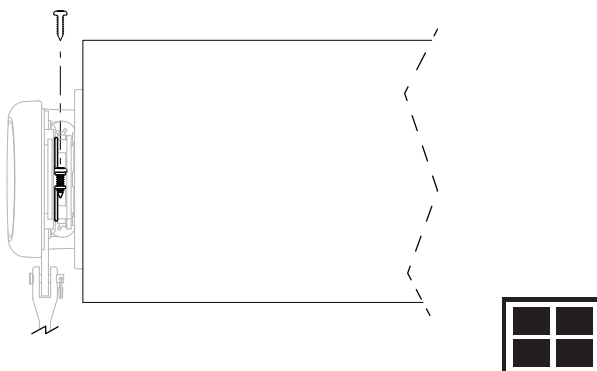
STEP 3 - ALIGN PIN END SHAFT HOLE WITH PIN END ADAPTER MOUNTING HOLE.



STEP 4 - FASTEN THE PIN END USING SCREW & LOCK NUT.



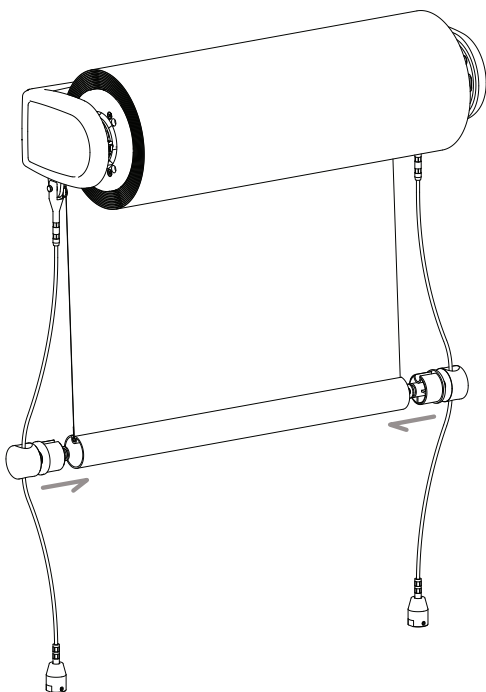
STEP 5 - REPLACE ZAMACK LOCK RING SCREW TO SECURE THE MOTOR/SHADE ATTACHMENT.



STEP 1 - INSERT WEIGHT BAR END CAPS INTO THE WEIGHT BAR.

Ensure wire guide cables are loose.

(Apply with firm pressure)

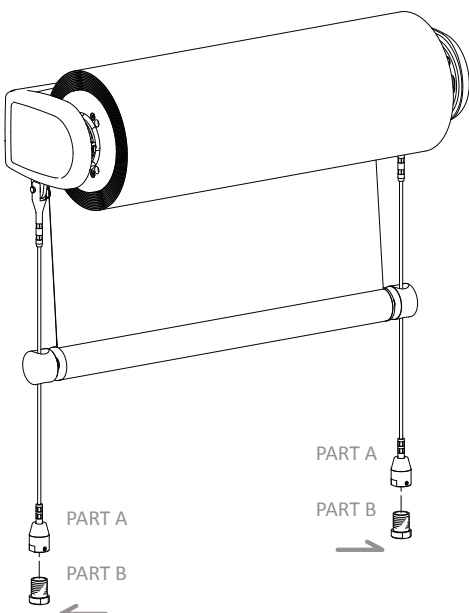


NOTE:

If ballast is required, insert prior to fitting end cap.

For external applications ensure ballast is treated for corrosion resistance and is compatible with aluminum.

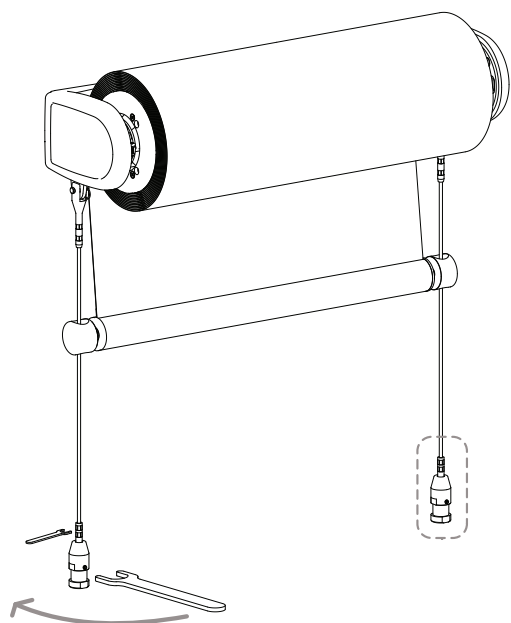
STEP 2 - Screw PART A onto PART B.



NOTE: Apply anti-seize compound to stainless steel thread.

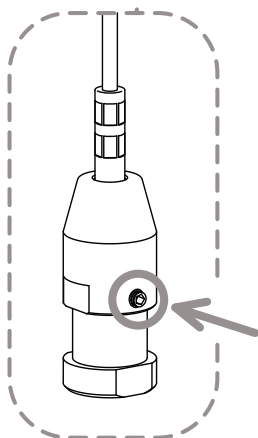


STEP 3 - USING A WRENCH, SCREW DOWN PART A TO APPLY TENSION ON THE CABLE.

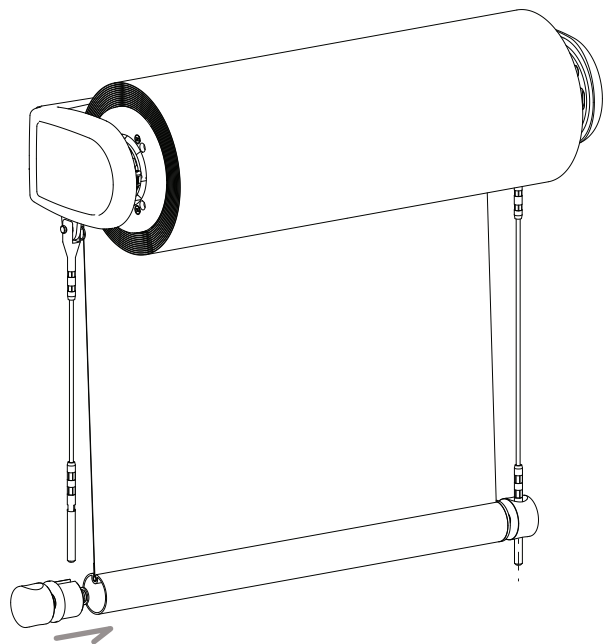


STEP 4 - TIGHTEN GRUB SCREW

When sufficiently tensioned, tighten the grub screw with an allen key to lock the fitting and prevent loosening of the cable.

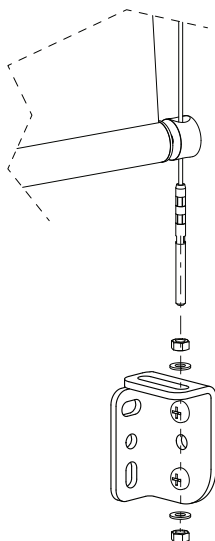


STEP 1 - INSERT WEIGHT BAR END CAPS AND FEED WIRE GUIDE THROUGH END CAPS.

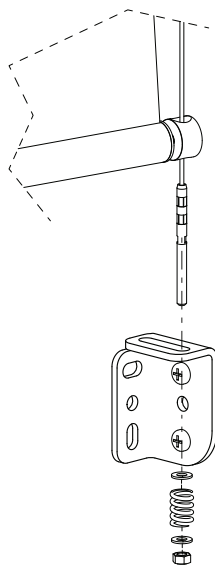


STEP 2 - INSERT STUD TERMINAL INTO WALL MOUNT BRACKET, ADD SPRING IF REQUIRED

WITHOUT SPRING

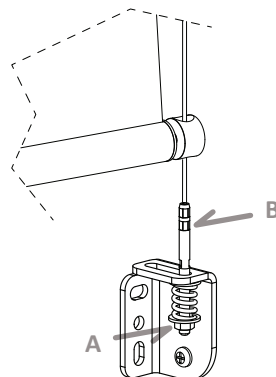
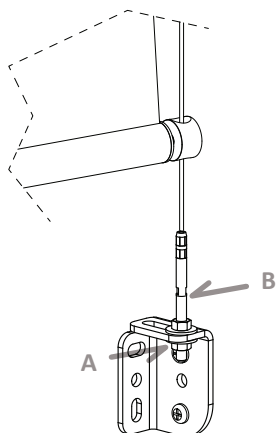


WITH SPRING



STEP 3 - ASSEMBLE STUD TERMINAL WASHERS & NUTS CONT...

NOTE: Using a wrench, screw up nut (A) to apply tension on cable. Stop rotation of wire with a wrench at PART B.



TENSION GUIDELINES

Recommended tension force for Extreme 4mm wire guide system is 700 - 900N Maximum. (70 - 90Kgf)

In the absence of a suitable tension meter, refer to the tension charts for guide lines on the No. of fastener turns (or travel) required to achieve desired tension.

The number of fastener turns or amount of stretch is relative to the length of the wire guide.

OPTION 1: Tension Bracket		
Wire Length	No. of turns Tension Body (A) (min) – (max)	Travel (mm)
2.5m (8.2')	1.0 – 1.5x	1.5 – 2.0mm (0.06 – 0.08')
5.0m (16.4')	2.0 – 3.0x	2.5 – 3.5mm (0.10 – 0.14')

OPTION 2: Terminal Stud		
Wire Length	No. of turns M8 Nut (min) – (max)	Travel (mm)
2.5m (8.2')	1.0 – 1.5x	1.5 – 2.0mm (0.05 – 0.08')
5.0m (16.4')	2.5 – 3.0x	3.0 – 4.0mm (0.12 – 0.16')
7.5m (24.6')	4.0 – 5.0x	4.5 – 6.0mm (0.18 – 0.24')
10.0m (32.8')	5.0 – 6.5x	6.0 – 8.0mm (0.24 – 0.31')

When using the tension spring, take note of the spring length prior to compressing the spring to apply tension in the wire system. Refer to the table for a guide on amount of spring compression and/or fastener turns required to achieve desired tension.

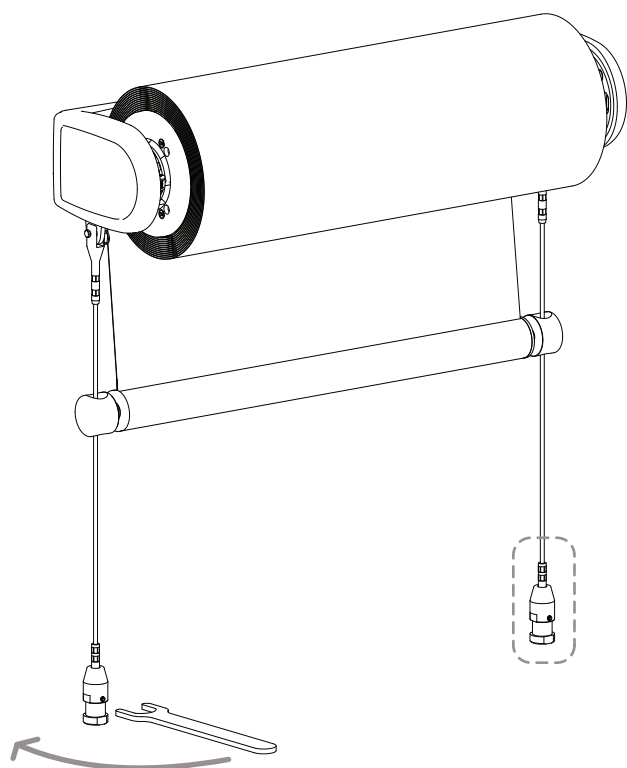
The wire length is not relevant for this tension method as the spring will apply the required tension once compressed to the nominated state.

OPTION 3: Terminal Stud with Spring		
Tension	Spring Compression mm	*No. of turns M8 Nut.
700 N min.	6.0mm (0.24')	5.0x
900 N max.	8.0mm (0.31')	6.5x

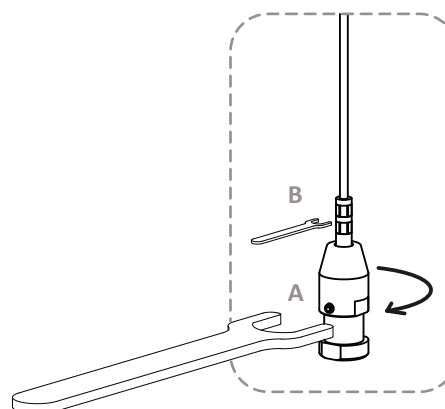
* Note, count number of turns from point spring begins to compress.



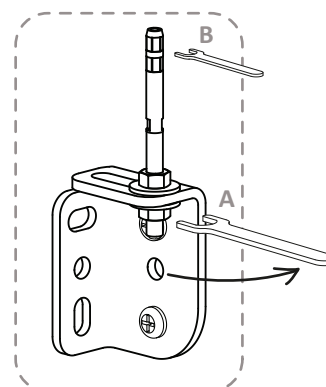
STEP 1 - TENSION BRACKET



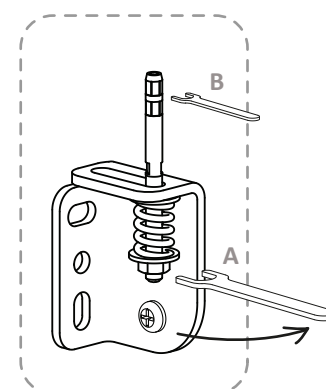
OPTION 1 - Tensioning Bracket



OPTION 2 - Terminal Stud



OPTION 3 - Terminal Stud with Spring



SECTION D - INSTALLATION SCENARIO

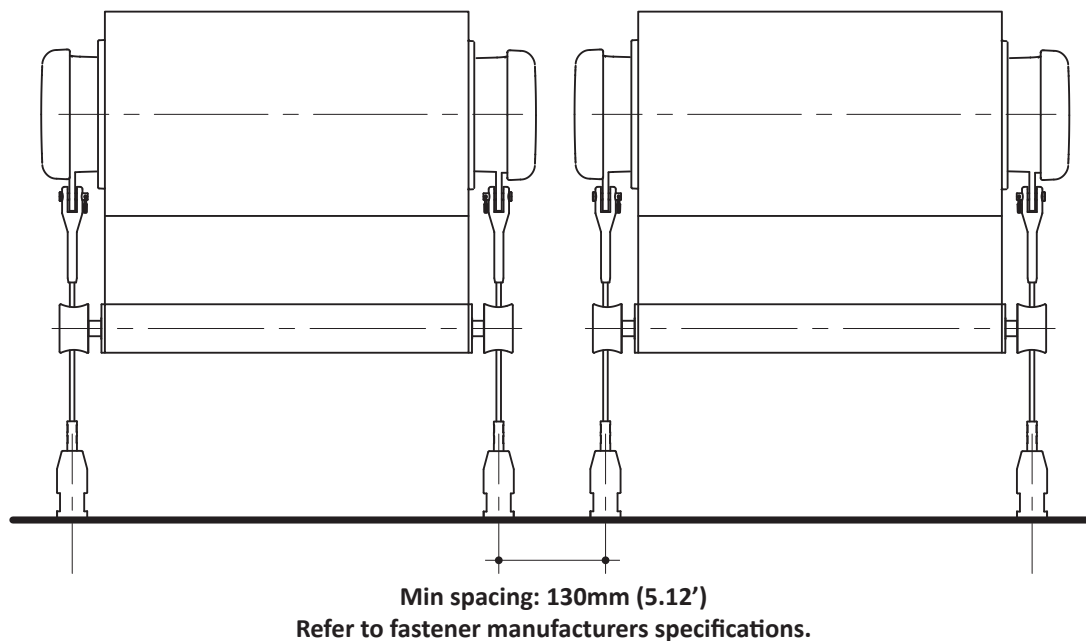
SIDE BY SIDE

Extreme shades can be installed in multiple scenarios side by side.

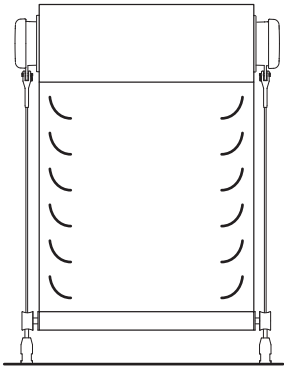
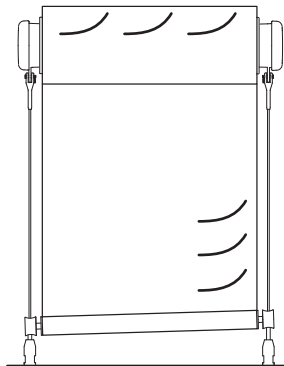
The governing factor for the spacing of the shades, beside the Ceiling/Outside Mount or Inside Mount scenarios, will be the wire guide mounting option.

Floor mounted Tensioning brackets for the wire guides will determine the minimum spacing between the shades.

Consideration should be given to the anchoring method and the mounting surface for the tension bracket anchors, in terms of minimum mounting centres between anchors.



SECTION E - TROUBLESHOOTING

NO.	PROBLEM	CAUSE	SOLUTION
1	<p>Ripples along sides of fabric.</p> 	Shade Rolled up for extended period of time.	This occurrence is inherent to roller systems and is more prevalent in some fabrics. Leave shade down for 1 – 4 hrs; most ripples should disappear.
		Not enough weight in weight bar.	Refer to product specs. Add ballast. Refer to Assembly manual Section E, Part 3.
		Installation is not square.	Check shade roll is installed level.
		Fabric permanently damaged due to inadequate handling during assembly, transportation, installation or use.	Replace the fabric and ensure it is handled with care.
2	Shade does not fully open or jams	Check motor stop limits	Refer to motor instructions to reset stop limits.
		Position of wire guides at base is incorrect.	Check if wire guide mounting at floor/base level are not positioned too far inboard. Adjust / reposition as required, refer to product spec for correct placement details.
3	<p>Uneven weight bar</p> 	Shade roll is not level, thus weight bar appears uneven	Ensure shade is installed level.
		Shade has been operated in excessive wind conditions.	Check shade rolled when the shade is fully raised. If ripples are evident on roll, open shade fully (without presence of wind) to allow the shade to track down evenly. Raise and lower shade a number of times to check operation.

