EASY SPRING WAND
ASSEMBLY MANUAL

April 2018

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April 2018

This manual is to be read in conjunction with the Product Specifications manual

DISCLAIMER

INTRODUCTION

This assembly manual has been produced by Rollease Acmeda to supply the necessary information for safe and correct assembly of this system.

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SECTION 1 – SYSTEM DETAILS

PART A – GENERAL SCHEMATIC

Rollease Acmeda Easy Spring Wand single roller system offers a high quality, aesthetically pleasing and technologically advanced Wand or Shade controlled solution. The Shade will open to your preferred top location in a smooth and controlled motion, with one simple touch.
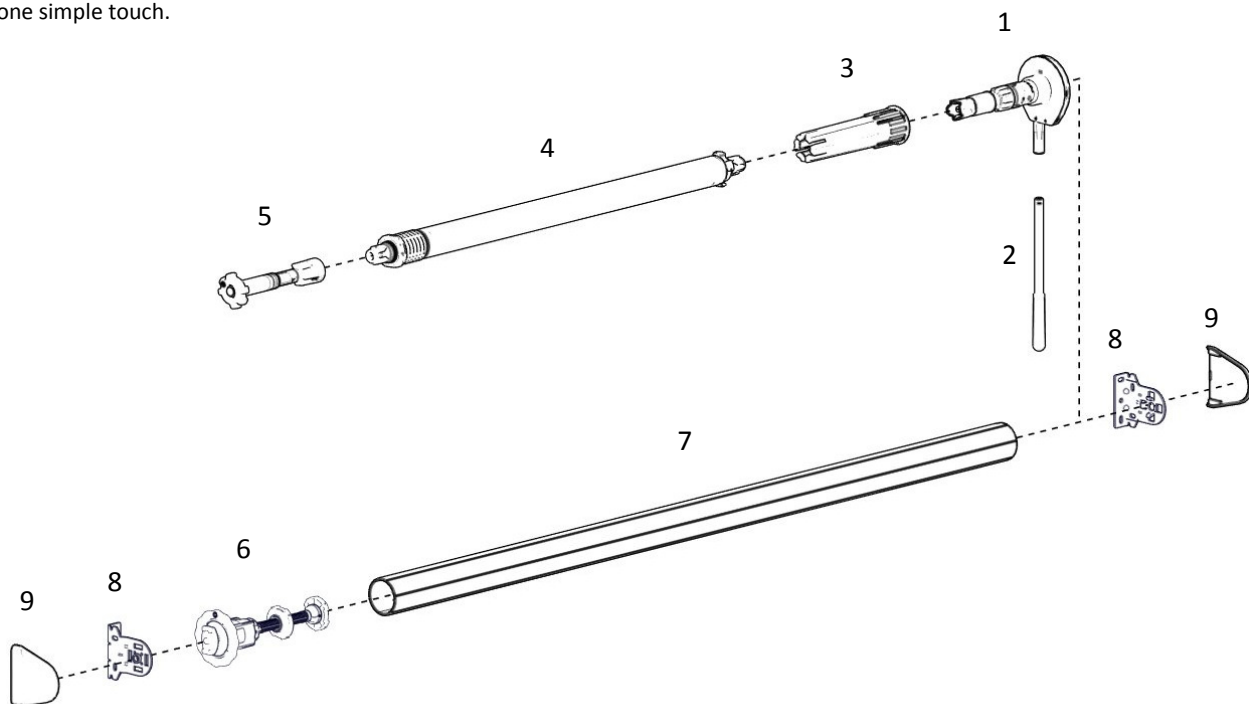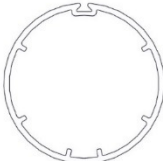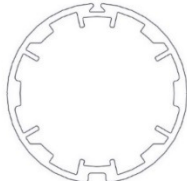
Note: This configuration is primarily shown throughout manuals; right hand control, back roll.
The side of the wand control determines what handing the Shade is.

SYSTEM INDEX
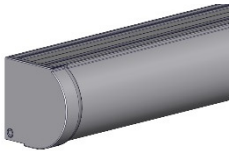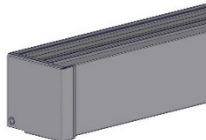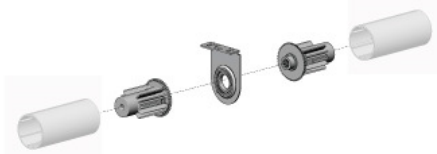
1. Wand Control
2. Wand
3. Connector
4. Booster Universal
5. Booster Decelerator
6. Limiter – Single Stop
7. Aluminum Tube
8. Mounting Brackets
9. Bracket Covers

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PART B – SYSTEM OPTIONS
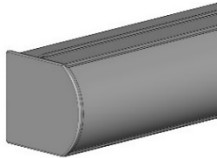
TUBE OPTIONS

1.5"	S45 LIGHT	S45 STANDARD	S45 HEAVY DUTY

LX BRACKET ADD ONS

CF90 CASSETTE FASCIA SUITE (INCLUDING EDGE)	
MOUNTING RAIL	EASY LINK

1.5" BRACKET ADD ONS

ROUND CASSETTE	LINK SYSTEMS
NOTE: CASSETTE 100/120 BRACKETS REQUIRED	

COLOR RANGE

pure white
069

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PART C – BOM & DEDUCTIONS

1.5" BRACKET

		PART NUMBER	DESCRIPTION	U.O.M	QTY	DEDUCTION	
						1.5" BRACKET	
						OPEN*	CASSETTE 100/120^
INSTALL	**OPEN BLIND**	RB12-2501-069138	Standard Bracket Set 1-1/2"	Set	1		
		SLBCW	Standard Bracket Cover	Set	1		
	CASSETTE 100/120	RB12-2502-025138	Bracket for Cassette 100/120 - 38mm	Set	1		

		PART NUMBER	DESCRIPTION	U.O.M	QTY	OPEN*	CASSETTE 100/120^
CONTROL OPTIONS	**WAND - LH**	RB12-3301-xxx138	Easy Spring Wand Control | LH	Piece	1		
		RB12-9001-xxx090	Easy Spring Wand | Universal - 90cm	Piece	1		
		RB12-3810-xxx038	Booster Connector | 1.5" (38mm)	Piece	1		
		RB12-6102-xxx038	Limiter - Single Stop | Universal 1.5"	Piece	1		
		RB12-7101-xxx138	Booster Decelerator | 1.5" LH - Blue Tail	Piece	1		
	WAND - RH	RB12-3301-xxx238	Easy Spring Wand Control | RH	Piece	1		
		RB12-9001-xxx090	Easy Spring Wand | Universal - 90cm	Piece	1		
		RBb12-3810-xxx038	Booster Connector | 1.5" (38mm)	Piece	1		
		RB12-6102-xxx038	Limiter - Single Stop | Universal 1.5"	Piece	1		
		RB12-7102-xxx238	Booster Decelerator | 1.5" RH - Red Tail	Piece	1		
	BOOSTER	RB12-3800-xxx038	Booster Univ. | SHORT 1.5"	Piece	1		
		RB12-3801-xxx038	Booster Univ. | LGT 1.5"				
		RB12-3802-xxx038	Booster Univ. | STD 1.5"				
		RB12-3803-xxx038	Booster Univ. | HD 1.5"				

	PART NUMBER	DESCRIPTION	U.O.M	QTY	OPEN*	CASSETTE 100/120^
BOTTOM RAIL	RB91-1232-xxxLLL	D30 SILENT Medium Bottom Rail	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	RB91-2133-xxx002	D30 Medium Bottom Rail End Caps LH & RH	Set	1		
	RB92-1501-001100	15mm Flat Spline				
	RB92-1502-001075	15mm Flat Spline - D/S MP-HR TAPE	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	RB92-1503-001075	15mm Flat Spline - D/S MP-HR TAPE B/SIDES				
	VB05-0301-xxxLLL	Base Rail Weight Rod	mm [inch]	0 or 1	W - 62mm [2.44"]	W - 62mm [2.44"]
	SB91-0011-050500	Fabric Brush	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	RB91-1205-xxxLLL	Flat Aluminium Bottom Rail	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	RB91-2105-xxx001	Flat Bottom Rail End Caps	Set	1		
	RB92-1001-001100	10mm Flat Spline	mm [inch]			
	RB92-1002-001075	10mm Flat Spline - D/S MP-HR TAPE	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	RB92-1003-001075	10mm Flat Spline - D/S MP-HR TAPE B/SIDES	mm [inch]			
	SB91-0011-050500	Fabric Brush	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	VB05-0301-xxxLLL	Base Rail Weight Rod	mm [inch]	0 or 1	W - 62mm [2.44"]	W - 62mm [2.44"]
	SB06-0201-xxxLLL	F4115 Flat Heavy Duty Bottom Rail	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	SB06-0201-xxxLLL	F4115 Flat Heavy Duty End Cap	Set	1		
	RB92-1501-001100	15mm Flat Spline	mm [inch]			
	RB92-1502-001075	15mm Flat Spline - D/S MP-HR TAPE	mm [inch]	1	W - 36mm [1.38"]	W - 33mm [1.3"]
	RB92-1503-001075	15mm Flat Spline - D/S MP-HR TAPE B/SIDES	mm [inch]			
	SB91-0011-050500	Fabric Brush	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	VB05-0301-xxxLLL	Base Rail Weight Rod	mm [inch]	0 or 1	W - 62mm [2.44"]	W - 62mm [2.44"]
	RB91-1226-xxxLLL	Oval Aluminium Bottom Rail	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	RB91-2126-xxx001	Oval Bottom Rail End Cap	Set	1		
	RB92-1001-001100	10mm Flat Spline	mm [inch]			
	RB92-1002-001075	10mm Flat Spline - D/S MP-HR TAPE	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	RB92-1003-001075	10mm Flat Spline - D/S MP-HR TAPE B/SIDES	mm [inch]			
	VB05-0301-xxxLLL	Base Rail Weight Rod	mm [inch]	0 or 1	W - 62mm [2.44"]	W - 62mm [2.44"]
	RB91-1203-xxxLLL	Round Aluminium Bottom Rail	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	RB91-2104-xxx022	Round Slimline Bottom Rail End Cap	Set	1		
	RB92-1501-001100	15mm Flat Spline	mm [inch]			
	RB92-1502-001075	15mm Flat Spline - D/S MP-HR TAPE	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	RB92-1503-001075	15mm Flat Spline - D/S MP-HR TAPE B/SIDES				
	VB05-0301-xxxLLL	Base Rail Weight Rod	mm [inch]	0 or 1	W - 62mm [2.44"]	W - 62mm [2.44"]
	RB91-1215-xxxLLL	Mini Aluminium Bottom Rail	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	RB91-2115-xxx002	mini Bottom Rail End Cap	Set	1		
	RB92-0901-001100	9mm Flat Spline				
	RB92-0901-001075	9mm Flat Spline - D/S MP-HR TAPE	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	RB92-0901-001075	9mm Flat Spline - D/S MP-HR TAPE B/SIDES				
	VB05-0301-xxxLLL	Base Rail Weight Rod	mm [inch]	0 or 1	W - 62mm [2.44"]	W - 62mm [2.44"]

	PART NUMBER	DESCRIPTION	U.O.M	QTY	OPEN*	CASSETTE 100/120^
TUBE	RTEA-4T05-000580/RTEA4Txx	Rollease Tube + M/P Tape | 1-1/2"	mm [inch]			
	TAPE36	Multi-Purpose Double Sided Tape 1/2"	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
	TAPE361	Multi-Purpose Double Sided Tape 1"	mm [inch]			

	PART NUMBER	DESCRIPTION	U.O.M	QTY	OPEN*	CASSETTE 100/120^
FABRIC	NOT SUPPLIED	Fabric Width	mm [inch]	1	W - 36mm [1.42"]	W - 33mm [1.3"]
		Fabric Drop	mm [inch]		D + 150mm [5.9"]	D + 150mm [5.9"]

*No Covers - If covers required add an extra 4mm [0.16"] to deduction

^No Covers - If covers required add an extra 5mm [0..20"] to deduction

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VX/LX BRACKET

		PART NUMBER	DESCRIPTION	U.O.M	QTY	DEDUCTION	
						VX/LX BRACKET	
						OPEN/MOUNTING RAIL*	**CF90**
INSTALL	**OPEN BLIND**	RB12-2503-xxx140	Single Stop Limiter LX Bracket Set	Set	1		
		RB08-4151-xxx040	VX/LX Bracket Cover Caps | S40/45	Set	1		
	CF90	RB12-2503-xxx010	Single Stop Limiter LX Bracket Set	Set	1		
		RC02-0203-001090	Easy Spring Wand Guide CF90 | RH & LH	Set	1		
	MOUNTING RAIL	RB12-2503-xxx040	Single Stop Limiter LX Bracket Set	Set	1		
		RB88-2051-xxxLLL	MKII Mounting Rail | Base 50 VX/LX	Set		W - 4mm [0.16"]^	
		RB88-4151-xxx040	VX/LX Bracket Cover Caps - MKII Mouting Rail	Set	1		
		RB88-2092-xxx001	Mounting Rail - Slimline Spring Clip Bracket	Set			
		HD82-1904-025010	Screw - Self Tapper, C/Sunk Head, #4 x 3/8	Set	4		

		PART NUMBER	DESCRIPTION	U.O.M	QTY		
CONTROL OPTIONS	**WAND - LH**	RB12-3301-xxx138	Easy Spring Wand Control | LH	Piece	1		
		RB12-4510-xxx045	Connector | S45				
		RB12-9001-xxx090	Easy Spring Wand | Universal - 90cm	Piece	1		
		RB12-6101-xxx045	Limiter - Single Stop | Universal S45	Piece	1		
		RB12-7101-xxx145	Booster Decelerator | S45 LH - Blue Tail	Piece	1		
	WAND - RH	RB12-3301-xxx238	Easy Spring Wand Control | RH	Piece	1		
		RB12-4510-xxx045	Connector | S45				
		RB12-9001-xxx090	Easy Spring Wand | Universal - 90cm	Piece	1		
		RB12-6101-xxx045	Limiter - Single Stop | Universal S45	Piece	1		
		RB12-7102-xxx245	Booster Decelerator | S45 RH - Red Tail	Piece	1		
	BOOSTER	RB12-4500-xxx045	Booster Univ. | SHORT S45				
		RB12-4501-xxx045	Booster Univ. | LGT S45	Piece	1		
		RB12-4502-xxx045	Booster Univ. | STD S45				
		RB12-4503-xxx045	Booster Univ. | HD S45				

	PART NUMBER	DESCRIPTION	U.O.M	QTY	VX/LX BRACKET	
					OPEN/MOUNTING RAIL*	**CF90**
BOTTOM RAIL	RB91-1232-xxxLLL	D30 SILENT Medium Bottom Rail	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	RB91-2131-xxx002	D30 Medium Bottom Rail End Caps LH & RH	Set	1		
	RB92-1501-001100	15mm Flat Spline				
	RB92-1502-001075	15mm Flat Spline - D/S MP-HR TAPE	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	RB92-1503-001075	15mm Flat Spline - D/S MP-HR TAPE B/SIDES				
	VB05-0301-xxxLLL	Base Rail Weight Rod	mm [inch]	0 or 1	W - 65mm [2.56"]	W - 72mm [2.83"]
	SB91-0011-050500	Fabric Brush	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	RB91-1205-xxxLLL	Flat Aluminium Bottom Rail	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	RB91-2105-xxx001	Flat Bottom Rail End Caps	Set	1		
	RB92-1001-001100	10mm Flat Spline	mm [inch]			
	RB92-1002-001075	10mm Flat Spline - D/S MP-HR TAPE	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	RB92-1003-001075	10mm Flat Spline - D/S MP-HR TAPE B/SIDES	mm [inch]			
	SB91-0011-050500	Fabric Brush	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	VB05-0301-xxxLLL	Base Rail Weight Rod	mm [inch]	0 or 1	W - 65mm [2.56"]	W - 72mm [2.83"]
	SB06-0201-xxxLLL	F41mm [1.61"]15 Flat Heavy Duty Bottom Rail	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	SB06-0201-xxxLLL	F41mm [1.61"]15 Flat Heavy Duty End Cap	Set	1		
	RB92-1501-001100	15mm Flat Spline	mm [inch]			
	RB92-1502-001075	15mm Flat Spline - D/S MP-HR TAPE	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	RB92-1503-001075	15mm Flat Spline - D/S MP-HR TAPE B/SIDES	mm [inch]			
	SB91-0011-050500	Fabric Brush	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	VB05-0301-xxxLLL	Base Rail Weight Rod	mm [inch]	0 or 1	W - 65mm [2.56"]	W - 72mm [2.83"]
	RB91-1226-xxxLLL	Oval Aluminium Bottom Rail	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	RB91-2126-xxx001	Oval Bottom Rail End Cap	Set	1		
	RB92-1001-001100	10mm Flat Spline	mm [inch]			
	RB92-1002-001075	10mm Flat Spline - D/S MP-HR TAPE	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	RB92-1003-001075	10mm Flat Spline - D/S MP-HR TAPE B/SIDES	mm [inch]			
	VB05-0301-xxxLLL	Base Rail Weight Rod	mm [inch]	0 or 1	W - 65mm [2.56"]	W - 72mm [2.83"]
	RB91-1203-xxxLLL	Round Aluminium Bottom Rail	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	RB91-2104-xxx022	Round Slimline Bottom Rail End Cap	Set	1		
	RB92-1501-001100	15mm Flat Spline	mm [inch]			
	RB92-1502-001075	15mm Flat Spline - D/S MP-HR TAPE	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	RB92-1503-001075	15mm Flat Spline - D/S MP-HR TAPE B/SIDES				
	VB05-0301-xxxLLL	Base Rail Weight Rod	mm [inch]	0 or 1	W - 65mm [2.56"]	W - 72mm [2.83"]
	RB91-1215-xxxLLL	Mini Aluminium Bottom Rail	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	RB91-2115-xxx002	mini Bottom Rail End Cap	Set	1		
	RB92-0901-001100	9mm Flat Spline				
	RB92-0901-001075	9mm Flat Spline - D/S MP-HR TAPE	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
	RB92-0901-001075	9mm Flat Spline - D/S MP-HR TAPE B/SIDES				
	VB05-0301-xxxLLL	Base Rail Weight Rod	mm [inch]	0 or 1	W - 65mm [2.56"]	W - 72mm [2.56"]

	PART NUMBER	DESCRIPTION	U.O.M	QTY	OPEN/MOUNTING RAIL*	CF90
TUBE	RB93-0443-xxxLLL	S45 | LIGHT T-SPLINE Alum. Tube	mm [inch]		W - 34mm [1.34"]	W - 42mm [1.65"]
	RB93-0444-xxxLLL	S45 | STD T-SPLINE Alum. Tube	mm [inch]	1		
	RB93-0449-xxxLLL	S45 | HD T-SPLINE Alum. Tube	mm [inch]			
	RB92-0404-311215	T-Spline Slide-on	mm [inch]	1		

|	PART NUMBER	DESCRIPTION	U.O.M	QTY	OPEN/MOUNTING RAIL*	CF90
FABRIC	NOT SUPPLIED	Fabric Width	mm [inch]	1	W - 34mm [1.34"]	W - 42mm [1.65"]
		Fabric Drop	mm [inch]		D +150mm [5.9"]	

*No Covers - If covers required add an extra 2mm [0.08"] to deduction off Width, ie. (W-29mm [1.14"]) = [W-(29mm [1.14"]+2mm [0.08"]) = W-34mm [1.34"]]

^No Covers - If covers required add an extra 2mm [0.08"] to deduction
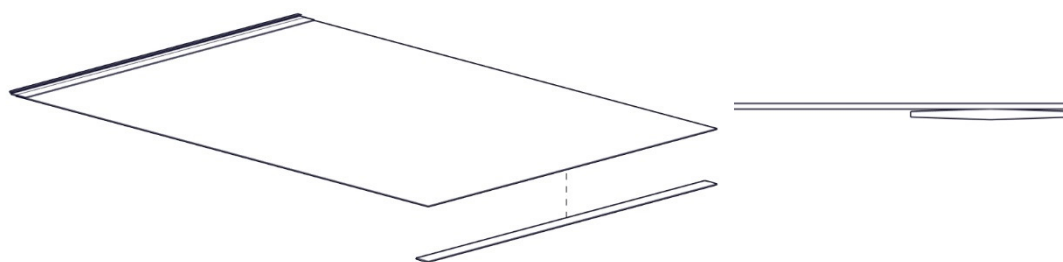
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PART D – FABRIC PREPARATION

STEP 1 (IF USING SPLINE TO ATTACH FABRIC TO TUBE) – ATTACH AND SECURE SPLINE FOR TUBE

NOTE: Spline can be attached to fabric via welding, stapling or double-sided tape
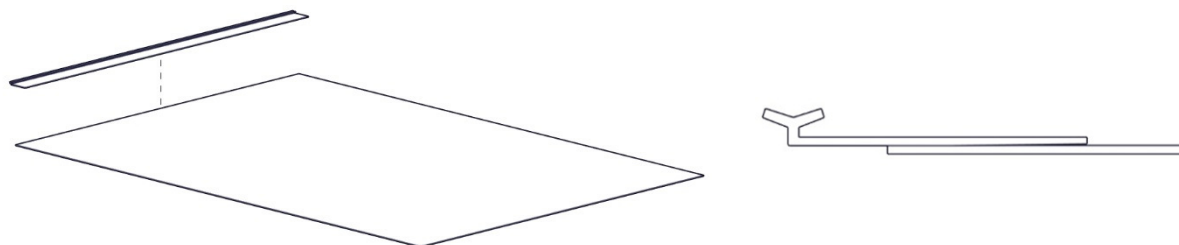
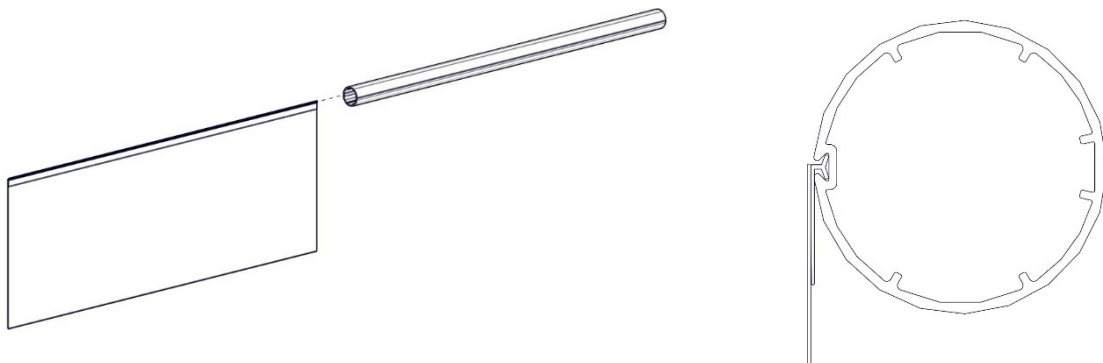### STEP 2 – SECURE SPLINE FOR WEIGHT BAR USING STAPLES*
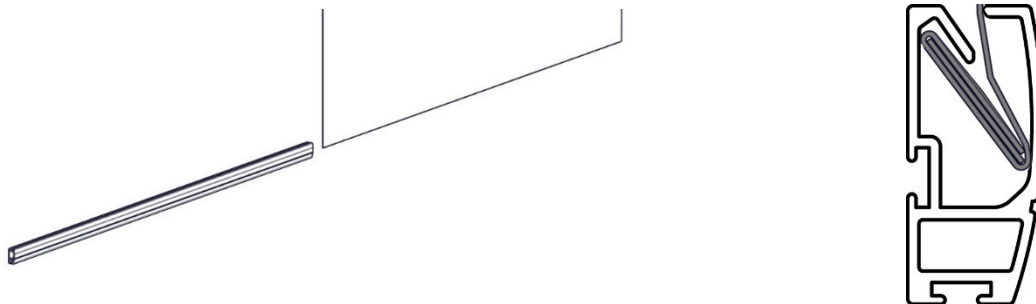
*Recommended when using one wrap on the spline

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SECTION 2 – ASSEMBLY

PART A – TUBE

STEP 1 – SLIDE FABRIC INTO TUBE WHEN USING T-SPLINE

ALTERNATE ASSEMBLY: Fabric can be attached on the tube using double sided tape (min 2 full wraps of fabric on the tube)
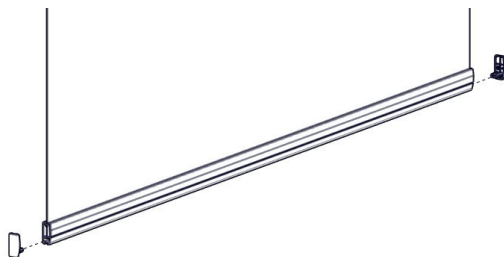
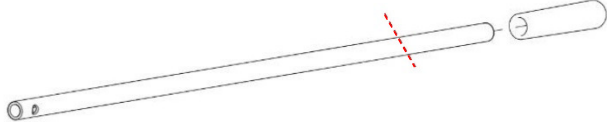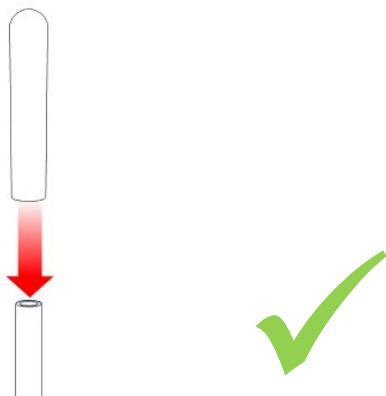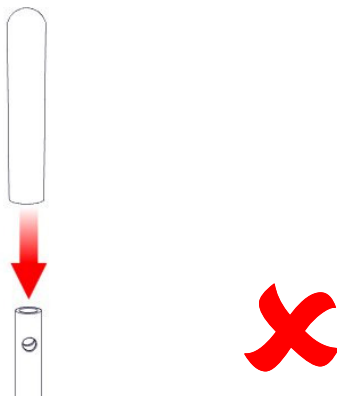#### STEP 2 – SLIDE BOTTOM RAIL ONTO FABRIC

NOTE: Refer to "ATTACHING FABRIC WITH FLAT SPLINE TO BOTTOM RAIL" document for spline installation instructions

Optional: Insert Ballast (if additional weight is required to improve appearance of fabric)
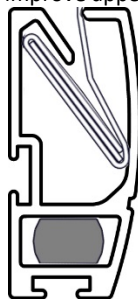
STEP 3 – INSERT BOTTOM RAIL END CAPS

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STEP 4A – ADJUST WAND LENGTH (OPTIONAL)

Standard Assembled length (with bottom cap attached) =
905mm +5/-2mm (35.6" +0.2/-0.08")

For shorter Shade drops, the aluminium wand can be cut to the desired length before attaching the bottom cap.

Note, ensure to cut wand at end without the cross drilled hole.

Remove all sharp edges and burrs before attaching bottom cap.

STEP 4B – ATTACH BOTTOM CAP TO WAND

VISUAL CHECK : ENSURE TO ASSEMBLE CAP ON CORRECT END (WITHOUT CROSS DRILL HOLE)

ENSURE CAP IS FULLY ASSEMBLED ONTO SHAFT USING A MALLET (DO NOT DAMAGE OR DISTORT THE WAND OR CAP)

VISUAL CHECK : ENSURE CAP IS FULLY ENAGED ON THE WAND (IT SHOULD NOT BE POSSIBLE TO REMOVE CAP BY HAND)

NOTE : MAXIMUM LENGTH OF ASSEMBLED WAND SHOULD NOT BE GREATER THAN ALUMINIUM WAND LENGTH + 5MM

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STEP 4C – ATTACH WAND TO CONTROL

Prepare to insert aluminium wand into the top cap.
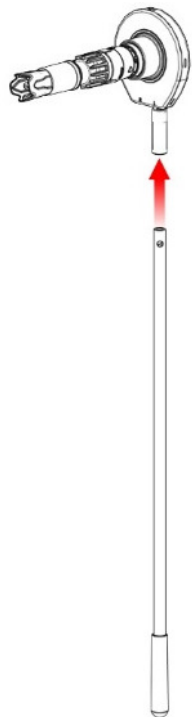
The wand is easier to insert into the top cap if the inner plug is in the right place.
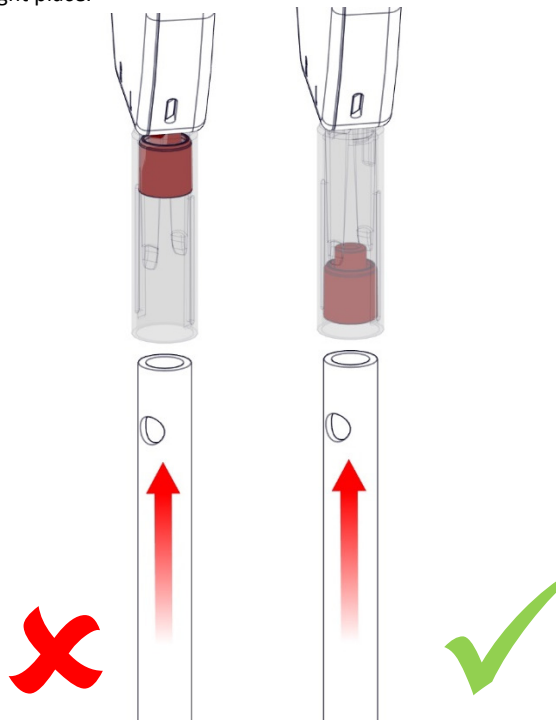
Before inserting the wand, align the holes in the wand so they are between the slots of the top cap.
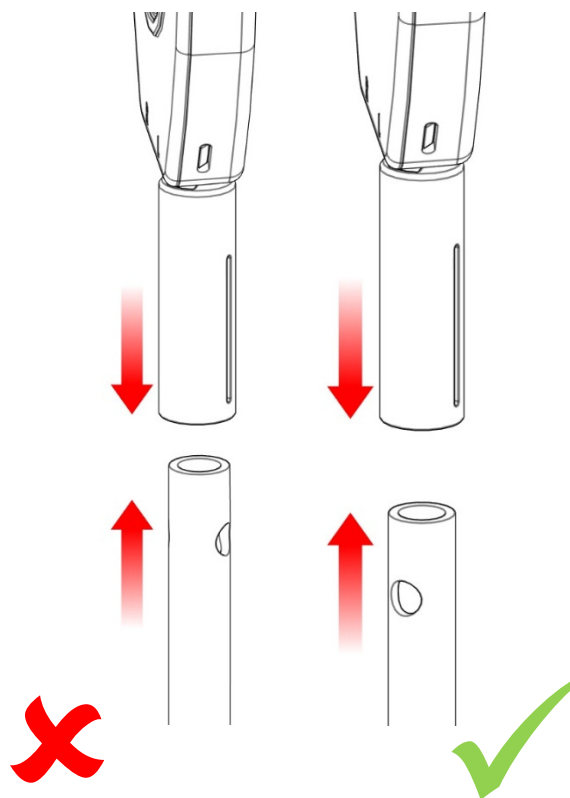
Hold the top cap and push the wand firmly and fully into the cap.

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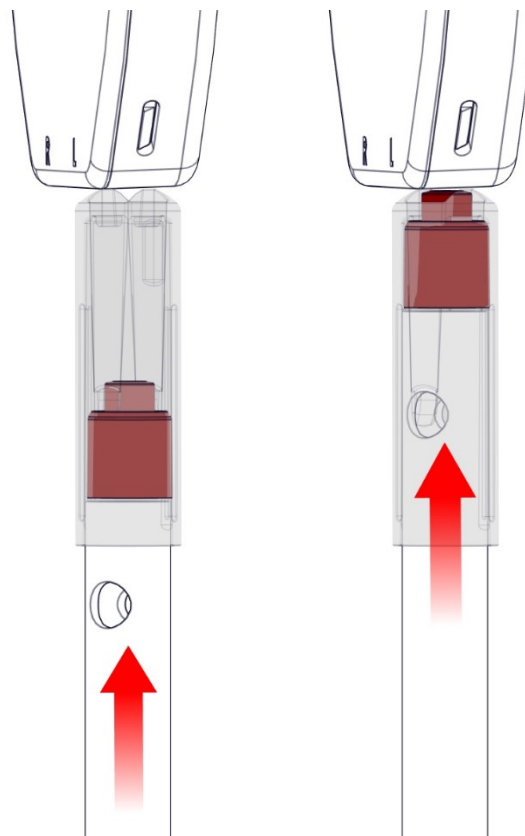
Twist the wand while holding the top cap to ensure the snap features "click" into the holes in the wand.
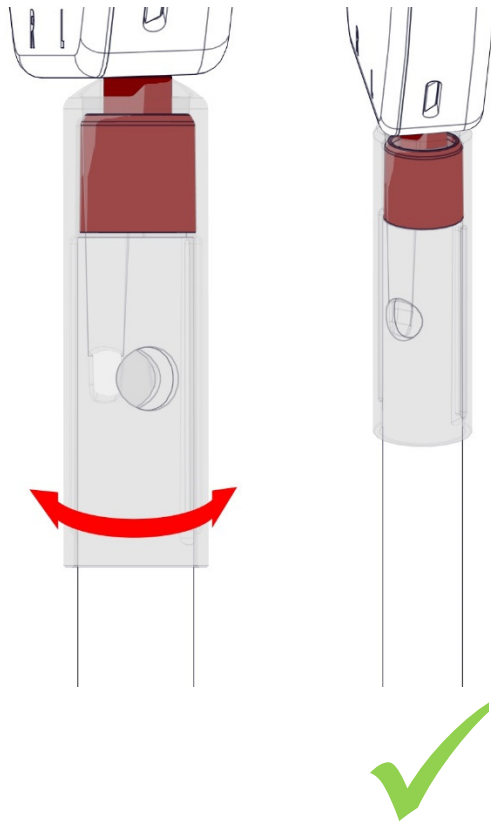
Physical Check: While holding top cap, try to pull out the wand from the cap, to check the wand is engaged correctly.
If the wand does not pull out, the assembly is OK.

If wand starts to pull out, stop and push the wand back into the top cap firmly and while holding the top cap, rotate the wand slightly in either direction to ensure the snap features engage. Repeat pull out check again to confirm engagement.

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STEP 5 – LIMITER CONTROLS	
Left Hand Side Limiter configuration (For Right hand control)	Right Hand Side Limiter configuration (For Left hand control)
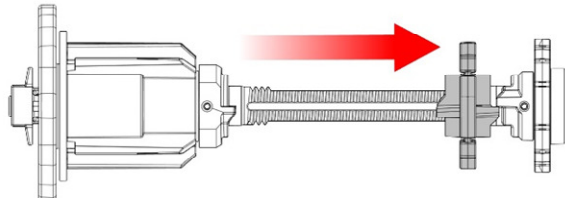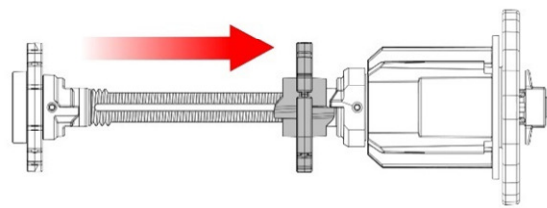
STEP 6 – INSERT LIMITER INTO TUBE

EASY SPRING WAND Assembly Manual | April 2018
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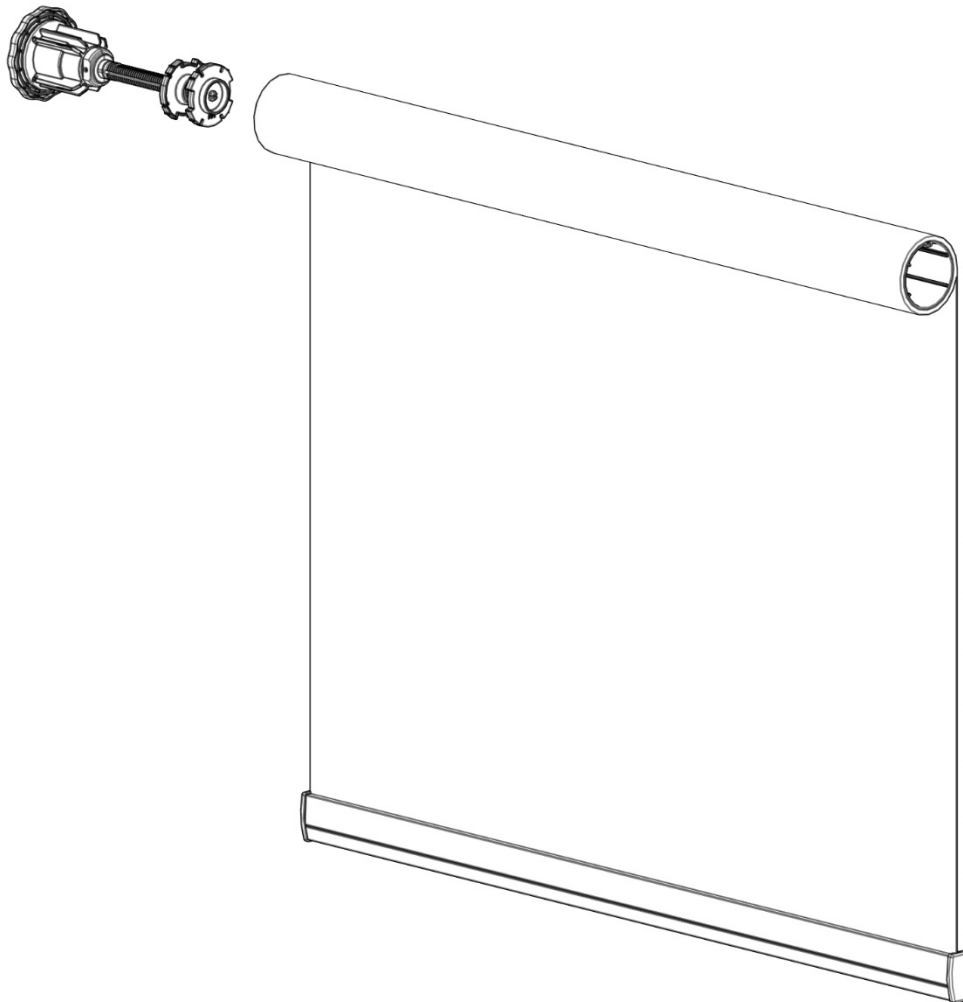
NOTE – WHEN INSTALLING ITEMS ONTO THE BOOSTER HOLD HAND BEHIND OPPOSITE END TO SPRING, DO NOT HOLD THE SLEEVE OR TUBE ADAPTER

STEP 1 – ATTACH THE CONNECTOR AND DECELERATOR TO THE BOOSTER	
For left hand control, clip the Connector onto the blue end of the Universal Booster	For right hand control, clip the Connector onto the red end of the Universal Booster

LEFT HAND CONTROL	RIGHT HAND CONTROL
BLUE RED	BLUE RED
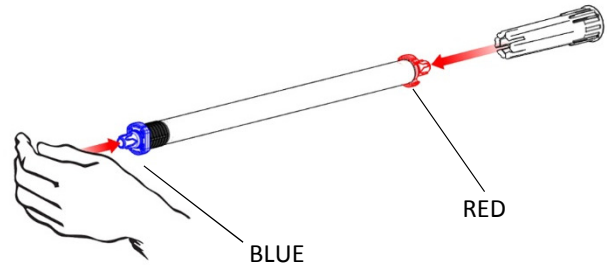
Snap Decelerator to Booster
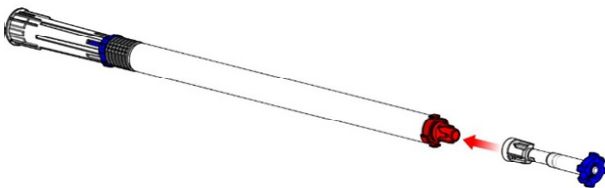
LEFT HAND CONTROL	RIGHT HAND CONTROL

STEP 2 - INSERT BOOSTER INTO TUBE

Right Hand Booster for Back Roll shown as example
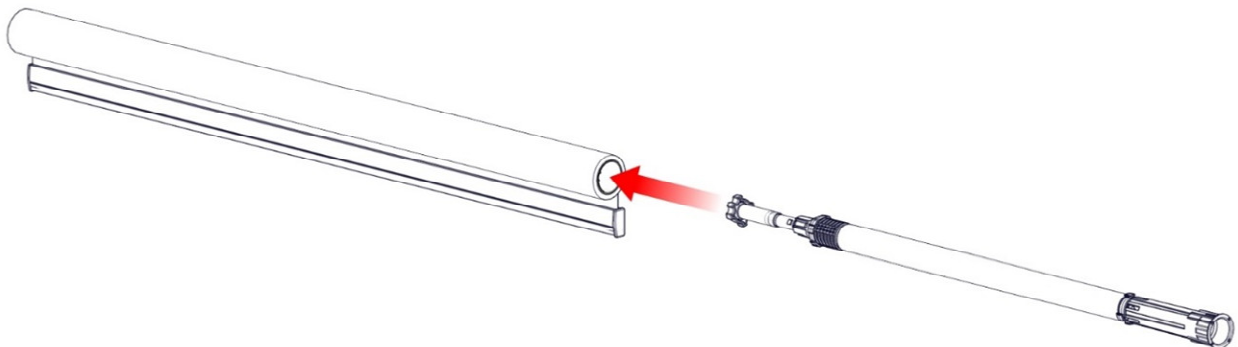
NOTE: Booster must NOT be pre-tensioned

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Insert Easy Spring Wand into connector
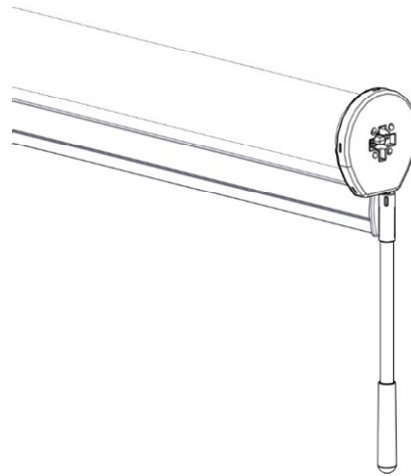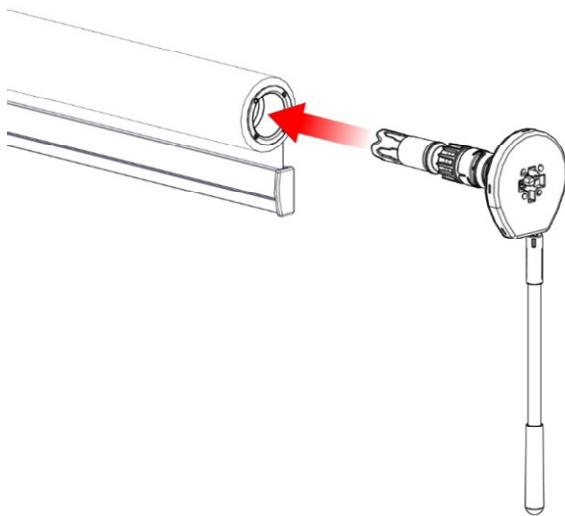
ADDING PRE-TENSIONS

Use Ratchet Socket to Pretension the Shade
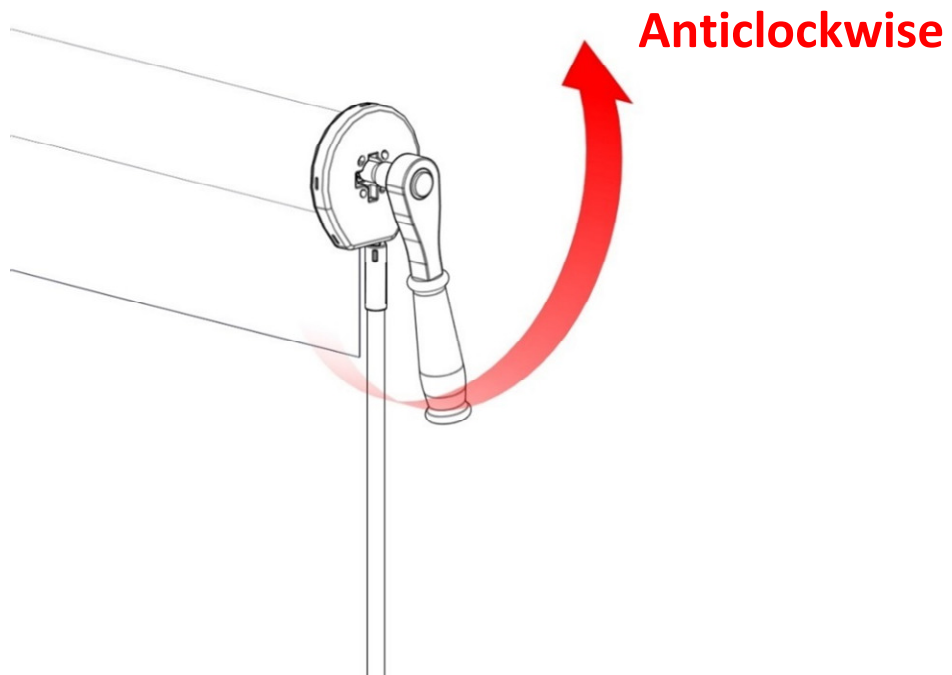
Anticlockwise

LH INSTALL (BACKROLL) – CLOCKWISE
RH INSTALL (BACKROLL) – ANTI-CLOCKWISE

Refer to a separate Spring Pre-Tension Chart document to determine a minimum number of pre-turns required. At the end of this document there are pre-tension charts for a 420gsm (12.39oz/yd²) fabric for reference. (Right hand – back roll - control shown as example)

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PRE-TENSION ADJUSTMENT – SHADE REMOVED
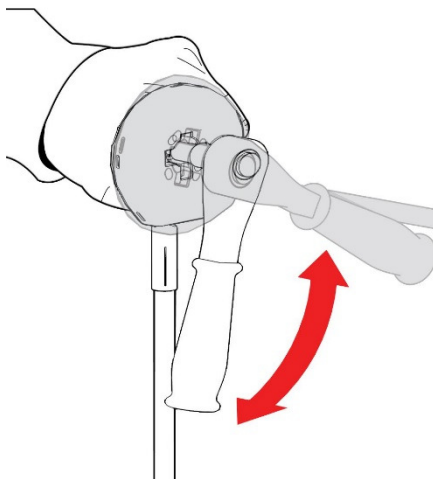
Hold the shade and use the Socket Ratchet to rotate the adjusting shaft (and wand control head) in an anti-clock wise direction enough to release the booster lock. The ratchet will spring back under the spring tension.
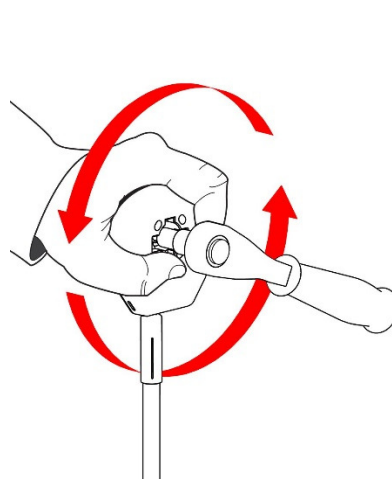
Hold the shade and Wand Control Head together. To add tension, rotate the Socket Ratchet for the number of turns desired in a counter clockwise. (Note, to remove tension allow the spring to unwind in the clockwise direction)
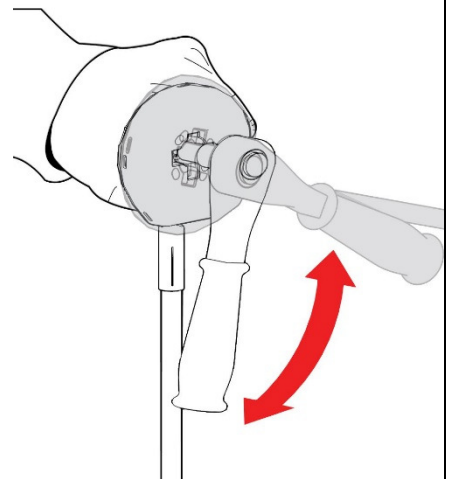
To re-lock the booster and shade, release the wand control and rotate the Socket Ratchet enough to re-engage the lock (approx. ¼ turn). The ratchet should spring back under the spring tension to the locked position.

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PART C – DISASSEMBLY (IF REQUIRED)

WAND CONTROL / BOOSTER

Hold the Wand Control and remove it from the connector by overcoming the medium snap retention feature.
Note: A flat head screw driver can be used to separate the control from the connector/tube assembly if it is necessary to leave connector/booster assembly inside the tube.
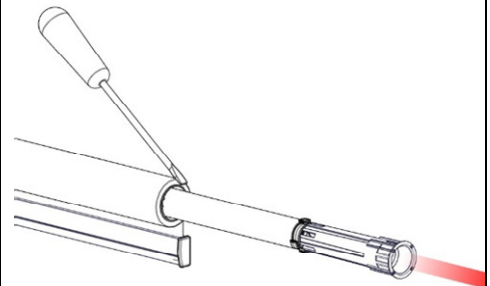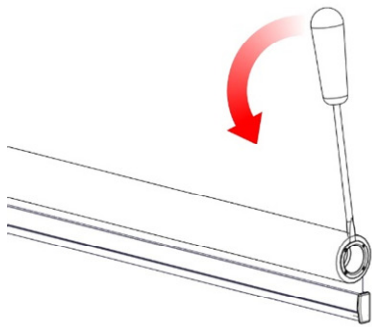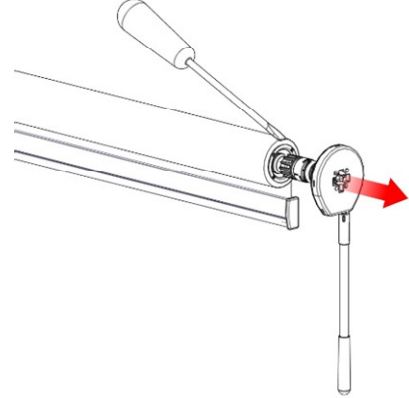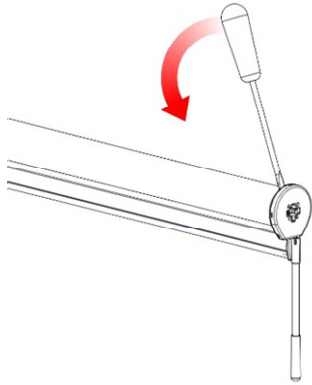
To remove, rotate and twist off the connector from booster holding the black part of the booster (not the sleeve)

Left Hand Control

Always Hold Booster Here

Right Hand Control

Always Hold Booster Here

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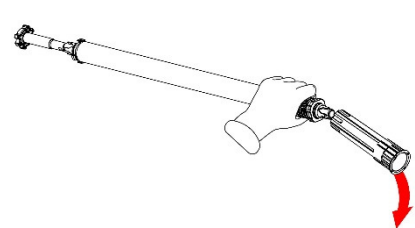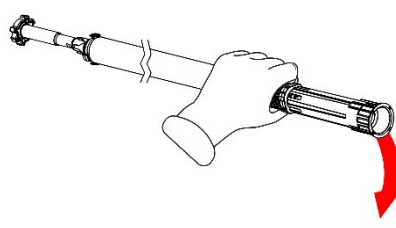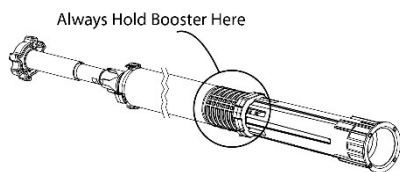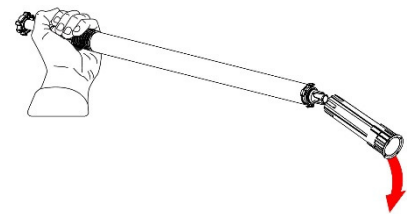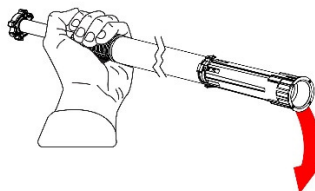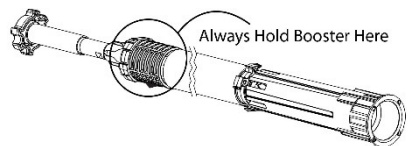
BOOSTER / DECELERATOR
Wedge off decelerator with a flat head screw driver by twisting the screw driver at the 2 clip points, slightly twist off one side and then the other to make it easier to remove. (The clipping points are located under the openings on the decelerator adaptor)
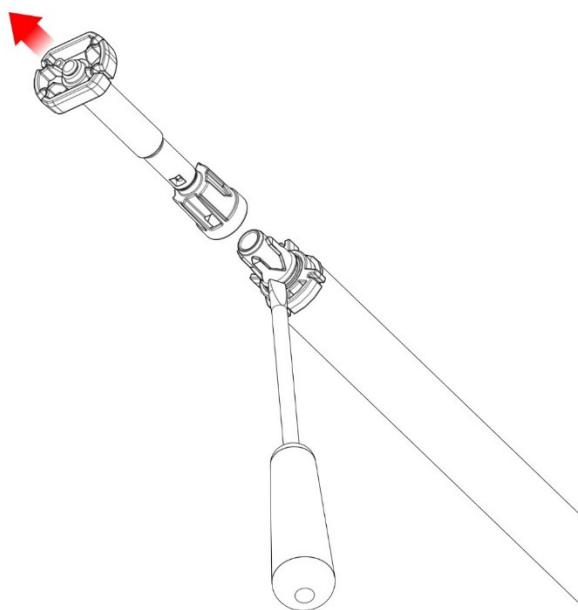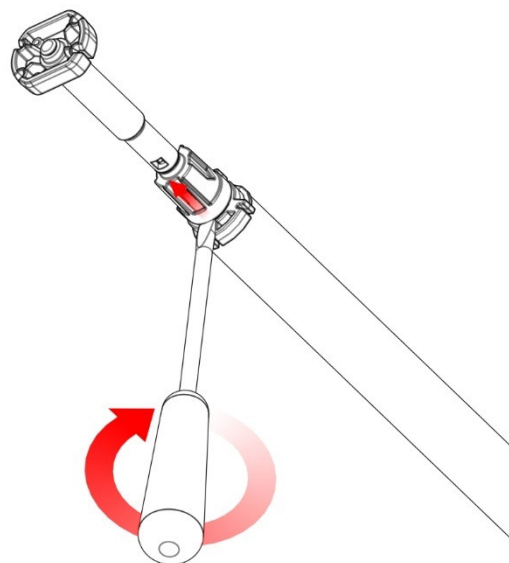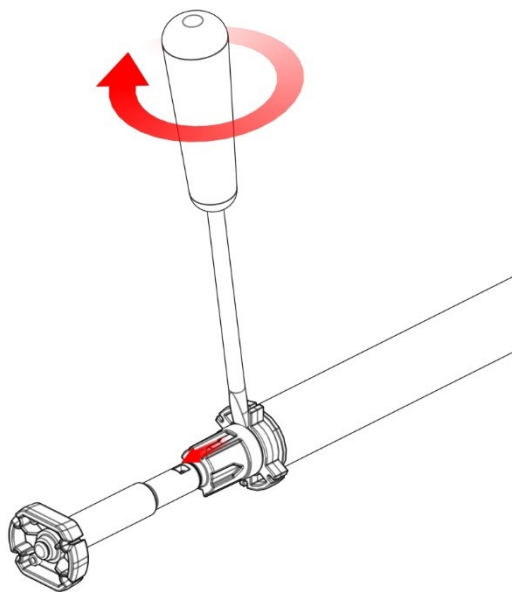
PART D – SYSTEM UPGRADES

Easy Spring Wand is compatible with CF90. To install the shade with a CF90, refer to the CF90 Manual.

Easy Spring Wand is also compatible with Cassette 100 and Cassette 120. To install the shade with Cassette 100 and Cassette 120, refer to Cassette 100 and Cassette 120 manual.

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SPRING PRE-TENSION CHARTS

1.5" (38mm) TUBE – D30 Medium Weight Bar (No Ballast)
420gsm (12.39oz/yd^2) Fabric | Thickness 0.55mm (0.022")

DROP (ft)	DROP (m)	WIDTH 2 / 0.6	0.8	3 / 1.0	1.2	4 / 1.4	1.6	5 / 1.8	2.0	6 / 2.2	2.4	7 / 2.6	2.8	8 / 3.0	3.2	9 / 3.4	3.6	10 / 3.8	4.0
2	0.5		11	14	15	16	17	18	18	19	11	12	12	13	13	14	14	15	
	0.6		11	14	15	16	17	18	19	20	11	12	12	13	13	14	14	15	
	0.7		11	14	15	16	17	18	19	20	11	12	13	13	14	14	15	15	
3	0.8		11	14	15	16	17	18	19	20	11	12	13	13	14	14	15	15	
	0.9		11	14	15	17	18	19	20	11	12	13	13	14	14	15	15		
	1.0		11	14	15	17	18	19	20	11	12	13	13	14	14	15	16		
4	1.1		11	15	15	17	18	19	20	11	12	13	14	14	15	15	16		
	1.2		11	15	16	17	18	19	20	11	13	13	14	14	15	16	16		
	1.3		11	15	16	18	19	20	21	11	13	13	14	15	16	17			
5	1.4		11	15	17	18	19	20	21	13	13	14	14	15	16	16			
	1.5		12	15	17	18	19	20	22	13	13	14	15	15	16	17			
	1.6		12	16	17	18	19	21	22	13	14	14	15	16	16	17			
6	1.7		12	16	17	19	20	21	22	13	14	15	15	16	17	17			
	1.8		12	16	18	19	20	21	23	13	14	15	16	16	17	18			
	1.9		12	17	18	19	20	22	13	14	14	15	16	17	17	18			
7	2.0		12	17	18	19	21	22	13	14	15	15	16	17	18				
	2.1			17	18	20	21	23	13	14	15	16	17	17	18				
	2.2			17	19	20	21	23	14	14	15	16	17	18					
	2.3			17	19	20	22	23	14	15	16	16	17	18					
8	2.4			18	19	21	22	24	14	15	16	17	18						

LEGEND	DESCRIPTION	COLORS
(light cyan)	RB12 S45 Universal Booster - Short	
(cyan)	RB12 S45 Universal Booster - Light	
(teal)	RB12 S45 Universal Booster - Standard	
(yellow)	RB12 S45 Universal Booster - Standard with Easy Link	
(gray)	Cannot be achieved - outside product specifications	

NOTE: The above charts are indicative only. Due to variances in fabric weights, weight bar weights, addition of ballast and friction the optimum number of pre-turns will vary Shade to Shade. For more accurate information please refer to the pre-rotation document.

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PRECISION IN MOTION

S45 LT TUBE – D30 Medium Weight Bar (No Ballast)
420gsm (12.39oz/yd²) Fabric | Thickness 0.55mm (0.022")

DROP (ft)	DROP (m)	2 / 0.6	3 / 0.8	1.0	4 / 1.2	5 / 1.4	1.6	6 / 1.8	7 / 2.0	2.2	8 / 2.4	9 / 2.6	2.8	10 / 3.0	11 / 3.2	3.4	12 / 3.6	13 / 3.8	4.0
	0.5		11	15	15	16	17	10	11	11	12	12	13	13	8	8	8	9	9
2	0.6		11	15	16	17	18	10	11	11	12	13	13	14	8	8	9	9	9
	0.7		11	15	16	17	18	10	11	12	12	13	13	14	8	8	9	9	9
	0.8		11	15	16	17	18	10	11	12	12	13	13	14	8	8	9	9	10
3	0.9		12	15	16	17	18	10	11	12	12	13	14	14	8	8	9	9	10
	1.0		12	15	16	17	18	11	12	12	13	13	14	14	8	9	9	10	10
	1.1		12	15	16	18	19	11	12	12	13	13	14	15	8	9	9	10	10
4	1.2		12	16	17	18	19	11	12	12	13	14	14	8	8	9	10	10	10
	1.3		12	16	17	18	19	11	12	13	13	14	15	8	8	9	10	10	
	1.4		12	16	17	18	19	12	12	13	14	14	15	8	8	10	10		
5	1.5		12	16	17	18	20	12	12	13	14	14	15	8	9	10	10		
	1.6		12	16	17	19	20	12	13	13	14	15	15	8	10	10			
	1.7		12	16	18	19	20	12	13	13	14	15	16	8	10				
6	1.8		12	17	18	19		12	12	13	14	14	15	16	10				
	1.9		12	17	18	19		12	12	13	14	15	15	16	10				
	2.0		12	17	18	20		12	12	13	14	15	16	17					
7	2.1		12	17	19	20		12	13	14	14	15	16	8					
	2.2		12	17	19	20		12	13	14	15	16	16						
	2.3			18	19	21		12	13	14	15	16	17						
8	2.4			18	19	21		13	13	14	15	16	17						

Column headers: WIDTH given in ft (2–13) and m (0.6–4.0); DROP given in ft and m.

LEGEND	DESCRIPTION	COLORS
(light cyan)	RB12 S45 Universal Booster - Short	
(cyan)	RB12 S45 Universal Booster - Light	
(teal)	RB12 S45 Universal Booster - Standard	
(yellow)	RB12 S45 Universal Booster - Standard with Easy Link	
(dark yellow)	RB12 S45 Universal Booster - Heavy Duty with Easy Link	
(grey)	Cannot be achieved – outside product specifications	

NOTE: The above charts are indicative only. Due to variances in fabric weights, weight bar weights, addition of ballast and friction the optimum number of pre-turns will vary Shade to Shade. For more accurate information please refer to the pre-rotation document.

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S45 STD TUBE – D30 Medium Weight Bar (No Ballast) | 420 GSM
420gsm (12.39oz/yd²) Fabric | Thickness 0.55mm (0.022")

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

LEGEND	DESCRIPTION	COLOR
	RB12 S45 Universal Booster - Short	
	RB12 S45 Universal Booster - Light	
	RB12 S45 Universal Booster - Standard	
	RB12 S45 Universal Booster - Standard with Easy Link	
	RB12 S45 Universal Booster - Heavy Duty with Easy Link	
	Cannot be achieved - outside product specifications	

NOTE: The above charts are indicative only. Due to variances in fabric weights, weight bar weights, addition of ballast and friction the optimum number of pre-turns will vary Shade to Shade. For more accurate information please refer to the pre-rotation document.

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PRECISION IN MOTION

S45 HD TUBE – D30 Medium Weight Bar (No Ballast)
420gsm (12.39oz/yd^2) Fabric | Thickness 0.55mm (0.022")

Width header (ft): 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

DROP (ft)	DROP (m)	0.6	0.8	1.0	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
	0.5		12	15	16	10	10	11	11	12	12	7	8	8	8	9	9	9	10
2	0.6		12	15	16	10	10	11	11	12	13	7	8	8	9	9	9	10	11
	0.7		12	15	16	10	10	11	12	12	7	8	8	8	9	9	9	10	11
	0.8		12	15	17	10	10	11	12	12	7	8	8	8	9	9	9	11	11
3	0.9		12	16	17	10	11	11	12	12	7	8	8	9	9	9	10	11	11
	1.0		12	16	17	10	11	11	12	13	7	8	8	9	9	9	10	11	12
	1.1		12	16	17	10	11	11	12	13	7	8	8	9	9	10	10	11	
4	1.2		12	16	17	10	11	12	12	13	7	8	9	9	9	10	10		
	1.3		12	16	17	10	11	12	12	13	7	8	9	9	9	10			
	1.4		12	16	17	11	11	12	13	13	7	8	9	9	10				
5	1.5		12	16	18	11	11	12	13	14	8	9	9	9					
	1.6		12	17	18	11	11	12	13	14	8	9	9	10					
	1.7		12	17	18	11	12	12	13	14	8	9	9						
6	1.8		13	17	18	11	12	13	13	14	8	9	9						
	1.9		13	17	18	11	12	13	14	14	9	9							
	2.0		13	17	19	11	12	13	14	15	9	9							
7	2.1		13	17	19	11	12	13	14	7	9								
	2.2			18	19	12	12	13	14	7	9								
	2.3			18	19	12	13	13	14	7									
8	2.4			18	11	12	13	14	15	9									

| LEGEND	DESCRIPTION	COLOR
	RB12 S45 Universal Booster - Short	
	RB12 S45 Universal Booster - Light	
	RB12 S45 Universal Booster - Standard	
	RB12 S45 Universal Booster - Heavy Duty	
	RB12 S45 Universal Booster - Heavy Duty with Easy Link	
	Cannot be achieved - outside product specifications	

NOTE: The above charts are indicative only. Due to variances in fabric weights, weight bar weights, addition of ballast and friction the optimum number of pre-turns will vary Shade to Shade. For more accurate information please refer to the pre-rotation document.

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SHADE ASSEMBLY, BRACKET COVER X 2, MOUNTING BRACKET X 2, APPROPRIATE FASTENERS

Ensure all required items to complete installation are packed;
1.   Shade Assembly
2.   2 x Bracket Cover
3.   2 x Mounting Bracket
4.   Appropriate Fasteners

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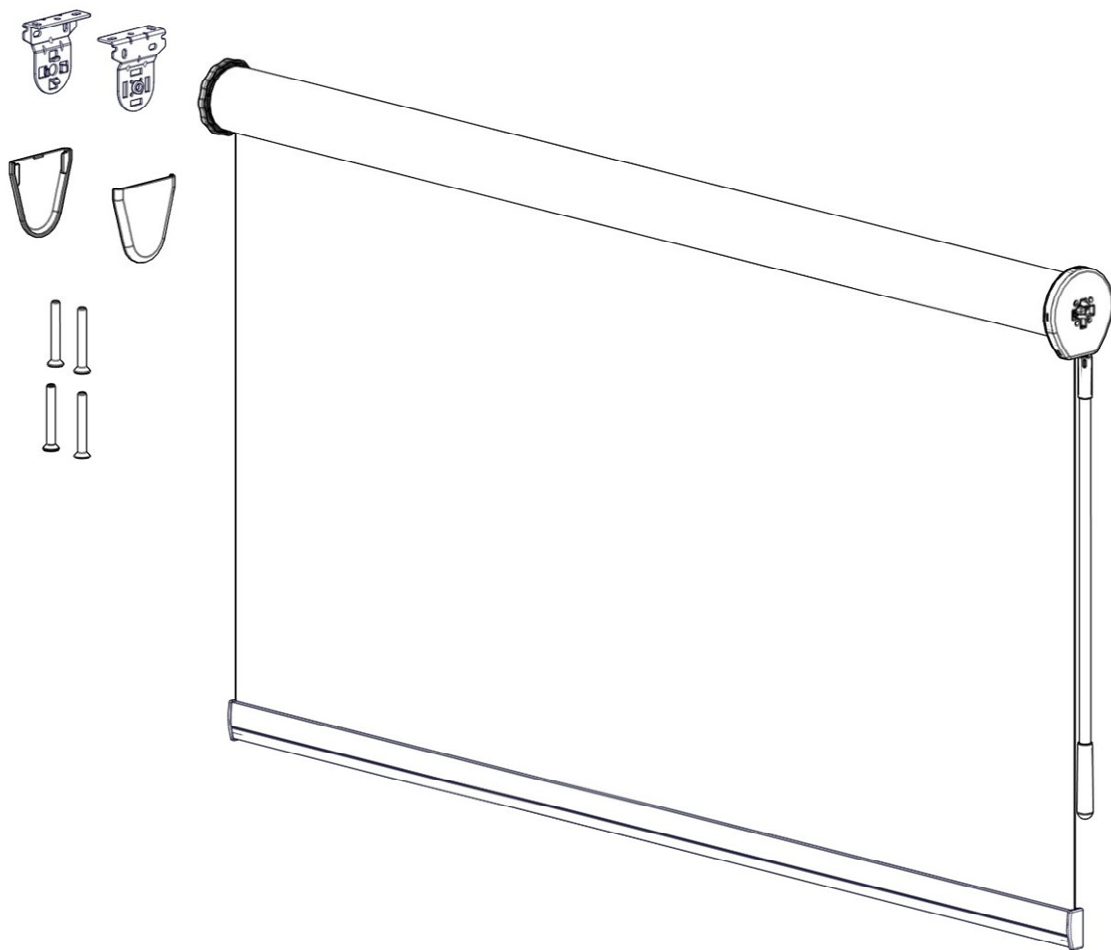
NO.	PROBLEM	CAUSE	SOLUTION
1	Erratic Behaviour Shade falls	Connector on wrong end	Remove and re-install on other end (See Section 2, Part C)
		No Pre-turns	Refer to chart for correct pre-turns
2	Shade will raise quickly	Wrong Decelerator	Remove and re-install correct Decelerator (See Section 2, Part B)
		Too many Pre-Turns	Remove Pre-Turns as per Sect 2, Part B (Pre-Tension Adjustment)
3	Operation of the wand does not lower or release Shade	Incorrect hand Control	Remove control and replace with correct hand control (See Section 2, Part C)
		Control is not fully engaged with Connector	Check deductions and/or bracket spacing are correct to specification

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