

# Nano Roll

## Installation Instructions

**Power: 24v DC - 485 / RTS**

(Size: 275 / 375 / 475)



INSTALLERS: Please leave this manual with the owner.

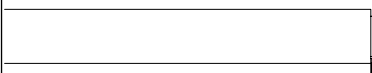
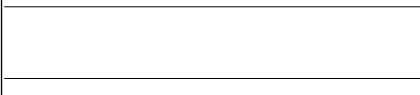
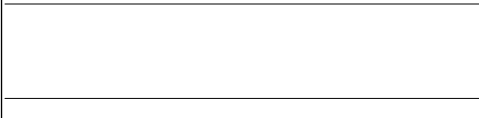
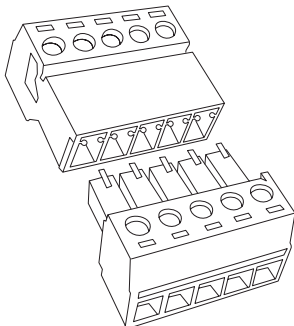
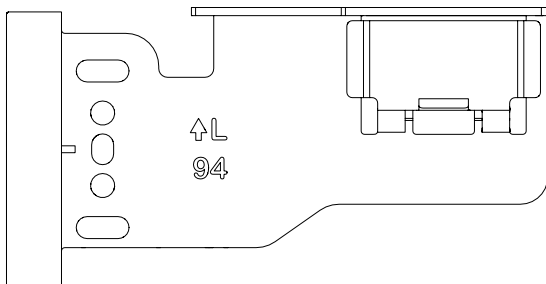
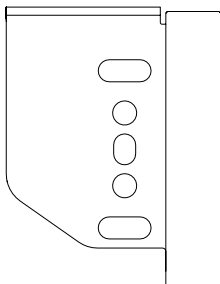
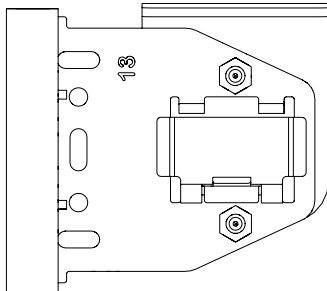
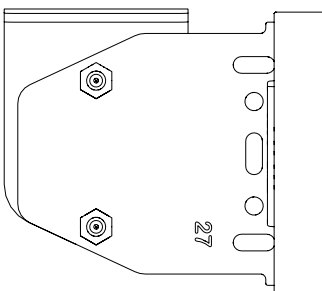




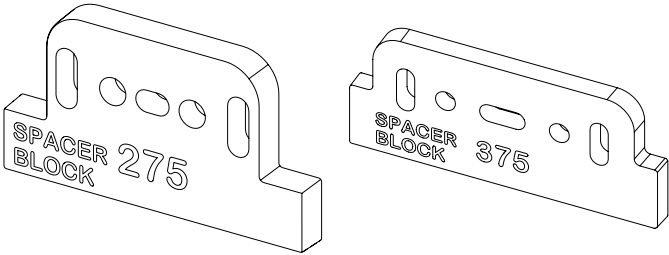
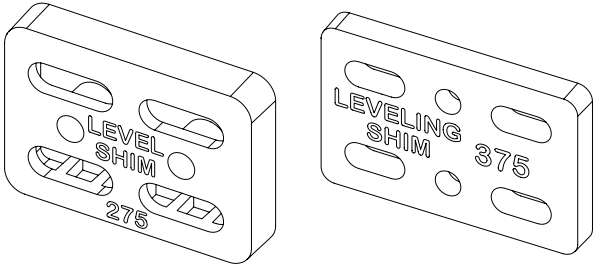
# TABLE OF CONTENTS

Parts List - Nano Roll - 24v Dc - 485 / Rts	4 - 5
Additional Accessories	5
Spacer Blocks And Leveling Shims (Optional)	6
Prewire - 275 Series - (24v DC - 485 / RTS)	7
Installation - 275 Series - (24v DC - 485 / RTS)	8 - 10
Installation - 375 / 475 Series (24v DC - 485 / RTS)	11 - 16
Low Voltage (DC) & Control – Wiring	17
Low – Voltage Power And 485 Control Wiring (DC Motor)	17
Low – Voltage Power (DC Motor)	17
Wire Considerations – Nano Roll	18
24v DC – Using 5 Conductor Wire	18
24v DC – Using UTP Wire	18
Termination For 4 – Conductor Third Party Cable	18
Commisioning Guide Reference	19
Controls Guide Reference	19

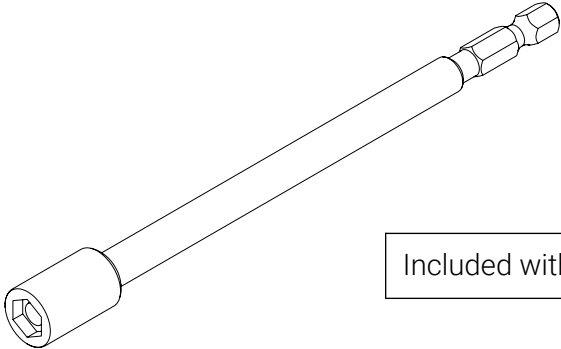
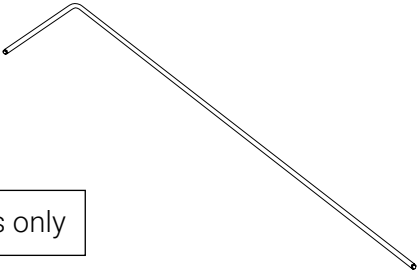
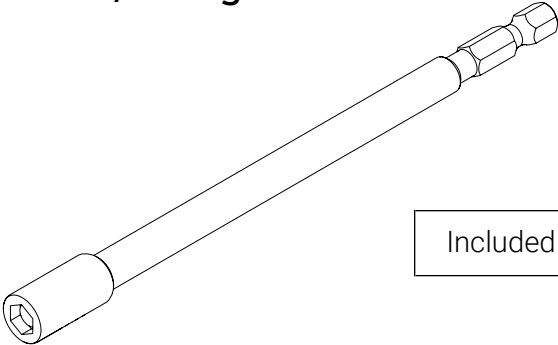
# PARTS LIST - NANO ROLL - 24v DC - 485 / RTS

<div>Shades</div> <div><div></div><div>275 Roll</div></div> <div><div></div><div>375 Roll</div></div> <div><div></div><div>475 Roll</div></div>	<div>Terminal Blocks</div> <div></div>
<div>Wall Brackets (275) + End Caps</div> <div><div><div>Motor Side</div></div><div><div>Idler Side</div></div></div>	
<div>Screws included (3 per bracket)</div>	
<div>Wall Brackets (375 / 475) + End Caps</div> <div><div><div>Motor Side</div></div><div><div>Idler Side</div></div></div>	

# PARTS LIST - NANO ROLL - 24v DC - 485 / RTS

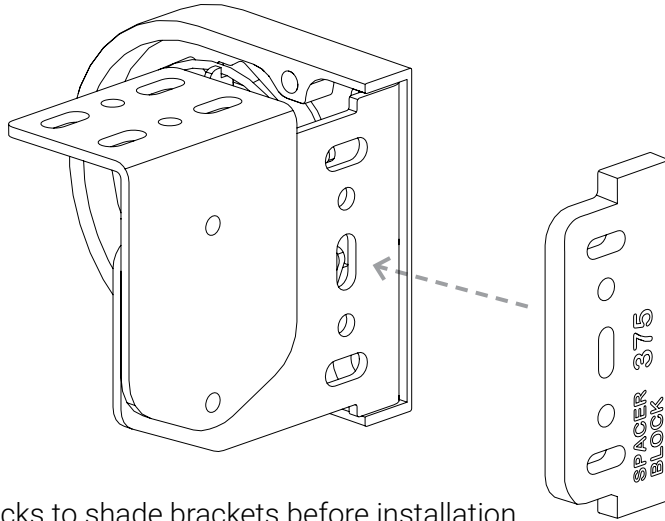
<p><b>Spacer Blocks (optional)</b></p> 	<p><b>Leveling Shims (optional)</b></p> 
<p>Note: For more information about these tools and their use, please call Tech Support at 512.832.6939 Opt. 1</p>	

## ADDITIONAL ACCESSORIES

<p><b>5/16" Magnetic Driver</b></p>  <p>Included with 375 / 475 series only</p>	<p><b>Set Screw Hex Tool (1/16")</b></p> 
<p><b>1/4" Magnetic Driver</b></p>  <p>Included with 275 series only</p>	
<p>Note: For more information about these tools and their use, please call Tech Support at 512.832.6939 Opt. 1</p>	

# SPACER BLOCKS AND LEVELING SHIMS (OPTIONAL)

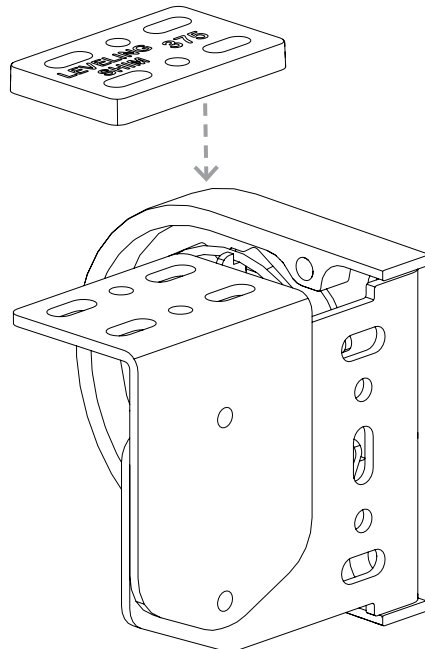
**Spacer Blocks** - used to clear an obstruction in the fabric path.



Connect spacer blocks to shade brackets before installation.

Note: Do not use more than 4 spacer blocks per bracket.

**Leveling Shims** - used if the window frame is out of level.

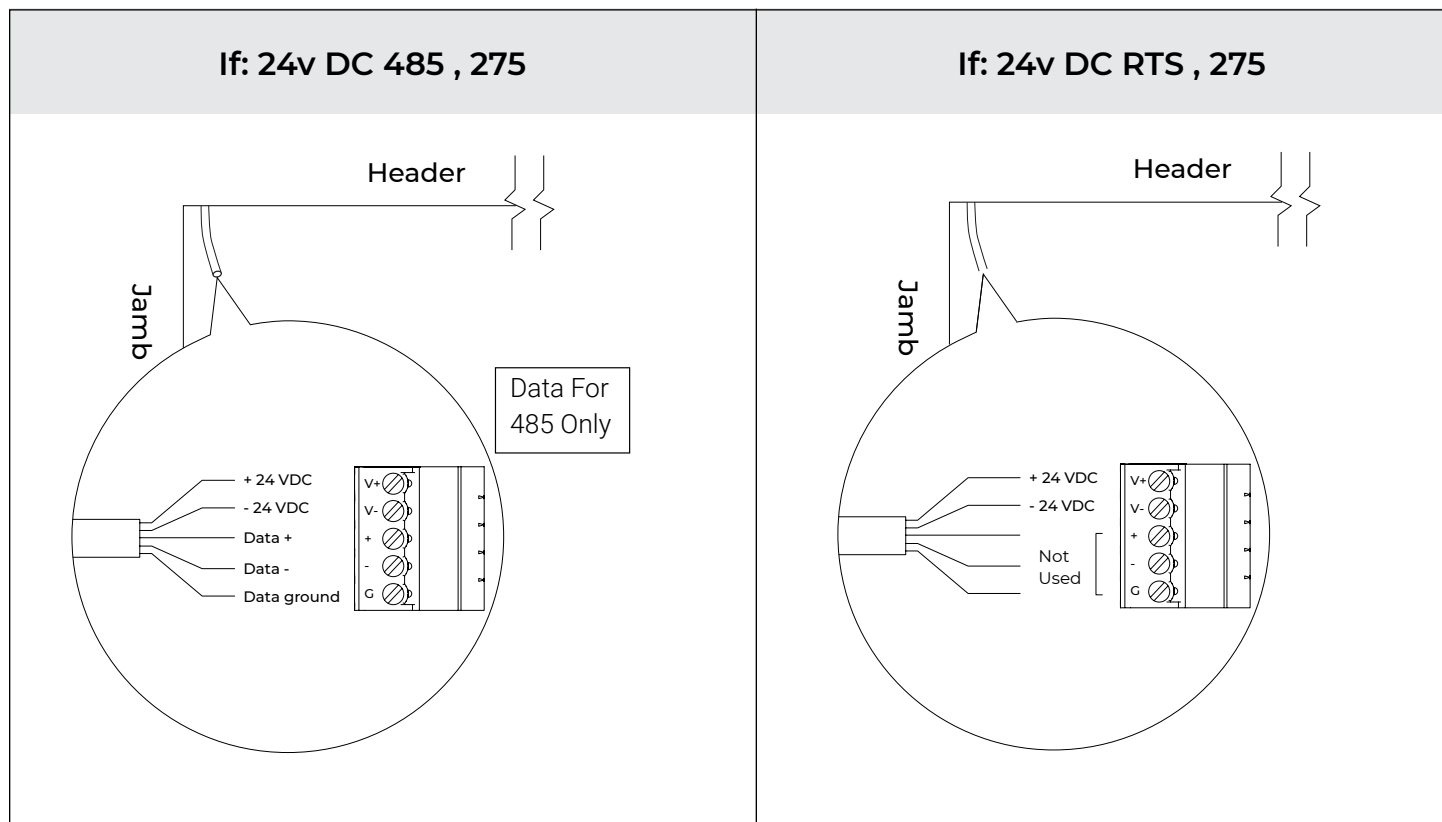


Connect to shade brackets before installation

Note: Do not use more than 2 leveling shims per bracket.

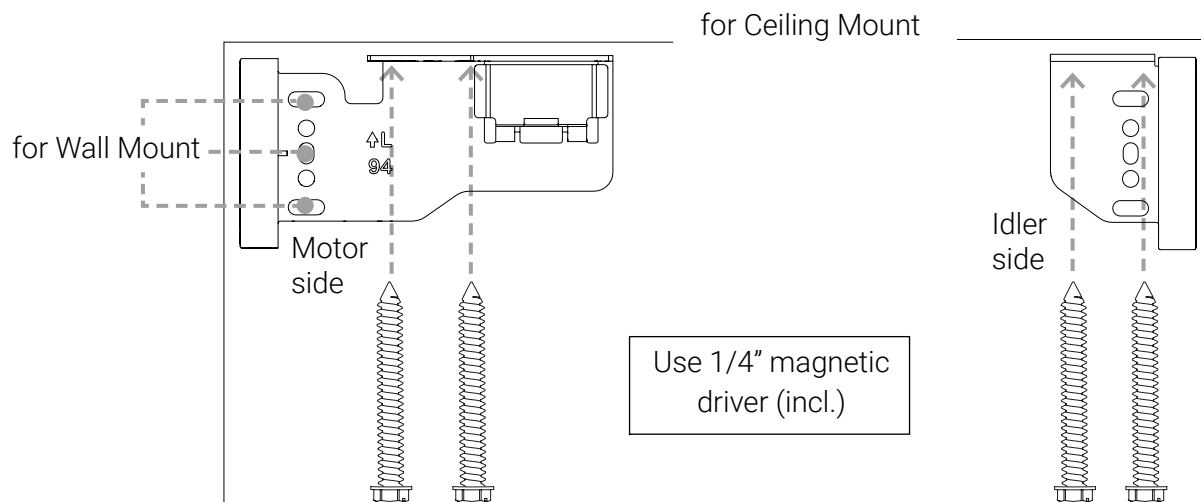
# PREWIRE - 275 SERIES - (24v DC - 485 / RTS)

Determine what wiring system have you ordered and do the pre-wire based on what is shown below.



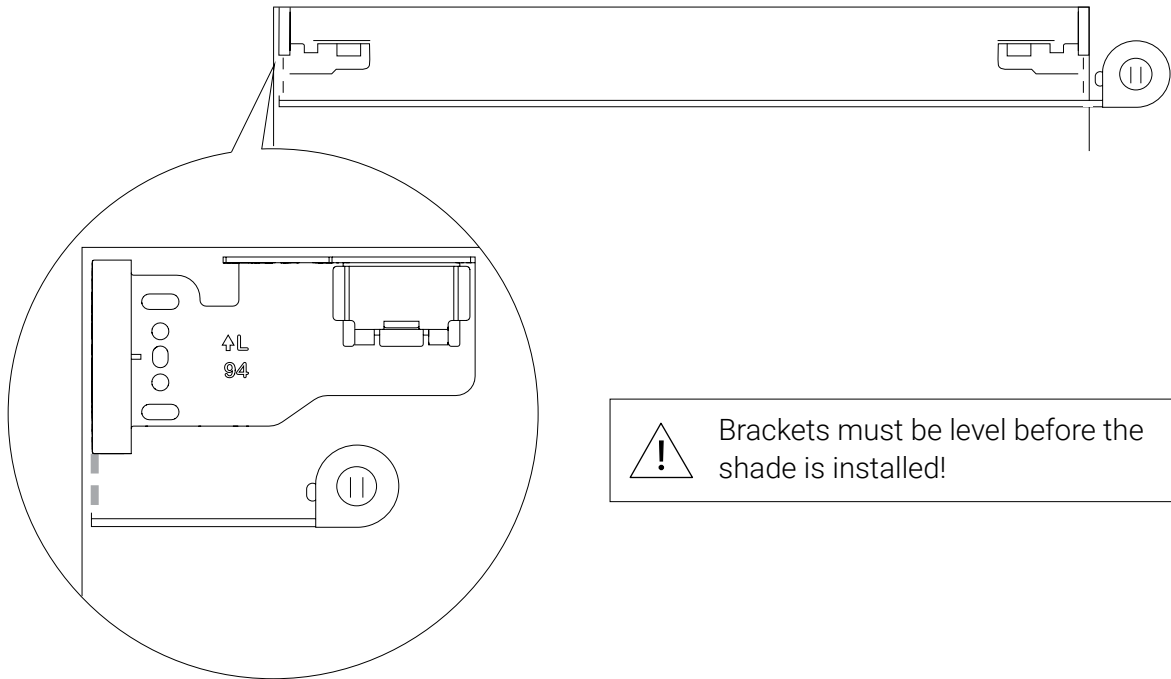
**Note:** Before installing the shades, verify whether the shade was ordered as standard roll or reverse roll. Though illustrations in this manual show standard roll shades, the installation for reverse roll shades is the same.

1. Install wall bracket/end cap assembly with the supplied screws

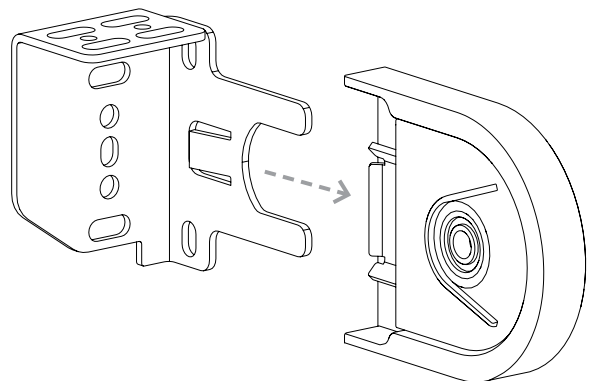
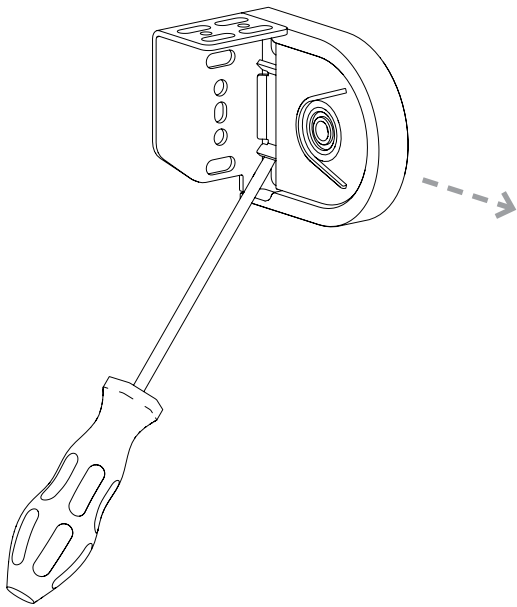


# INSTALLATION - 275 SERIES - (24v DC - 485 / RTS)

2. Measure bracket to bracket width and verify it matches the ordered width. Adjust accordingly.



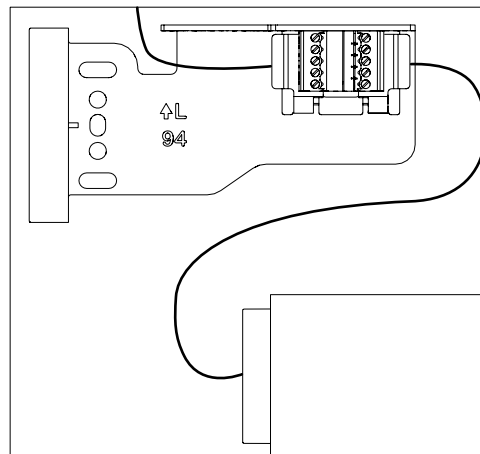
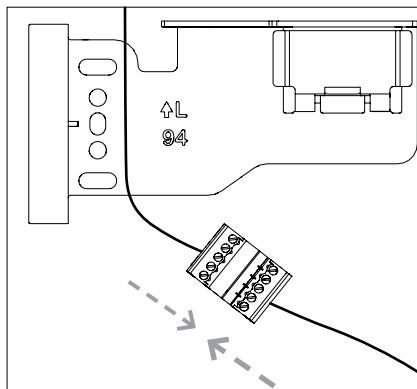
3. Remove idler end cap with flat screw driver



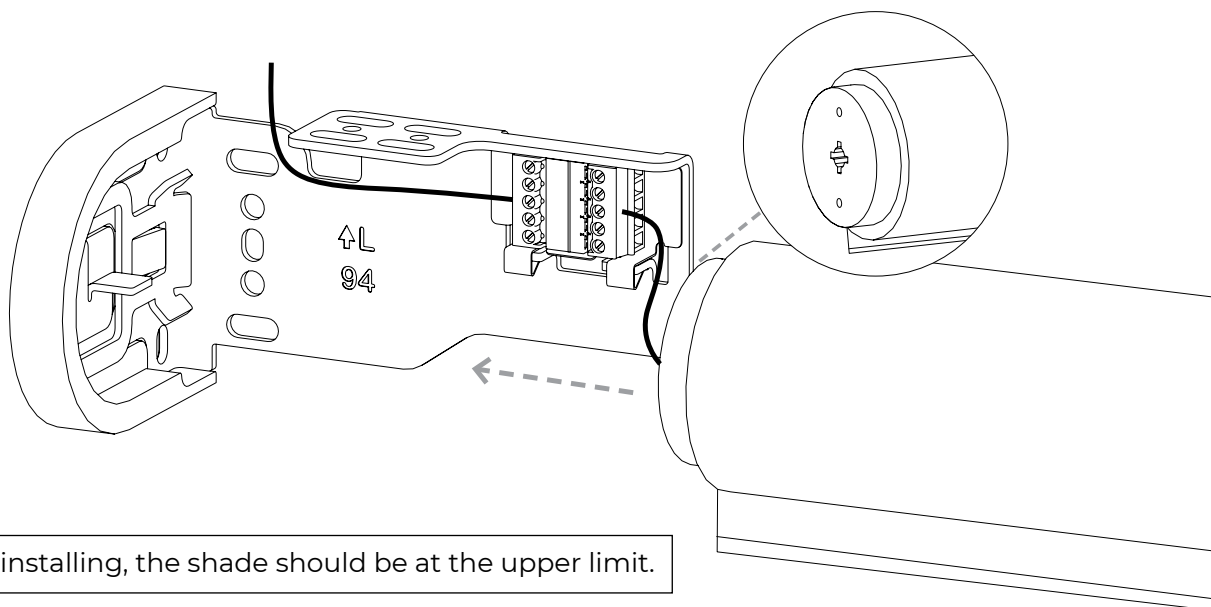


# INSTALLATION - 275 SERIES - (24v DC - 485 / RTS)

4. Connect shade and pre-wire connectors, snap into bracket

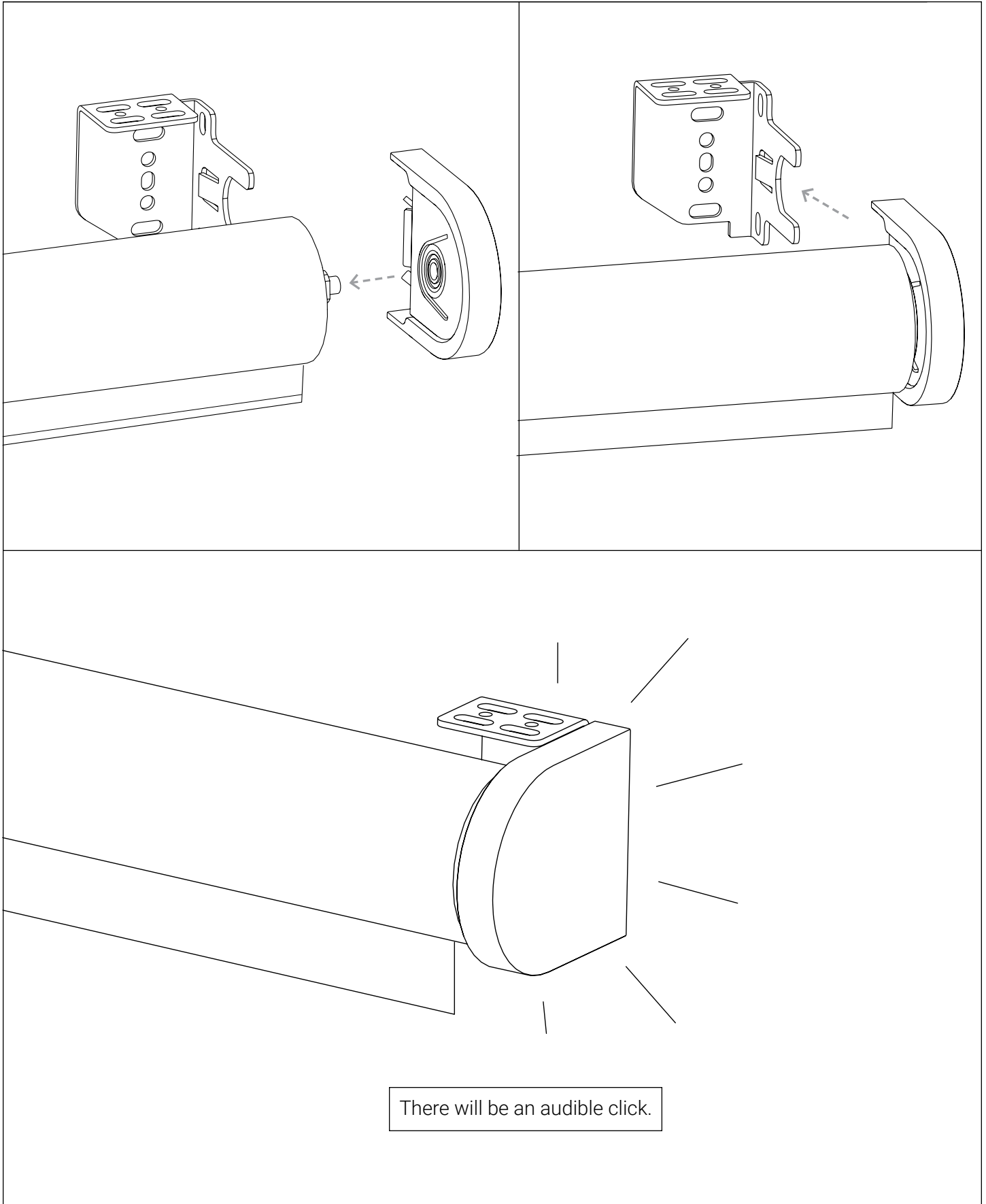


5. Insert motor side completely. Then, while supporting motor side, put idler end cap over the idler and snap into place.



When installing, the shade should be at the upper limit.

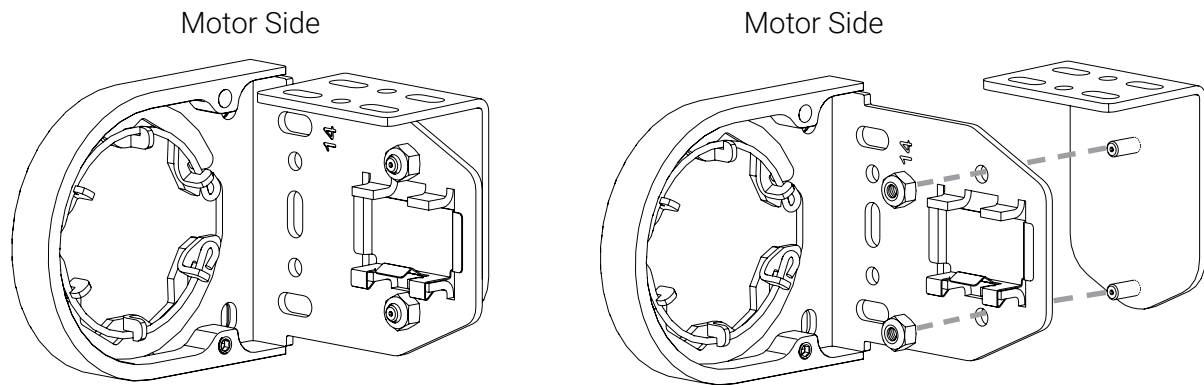
## INSTALLATION - 275 SERIES - (24v DC - 485 / RTS)



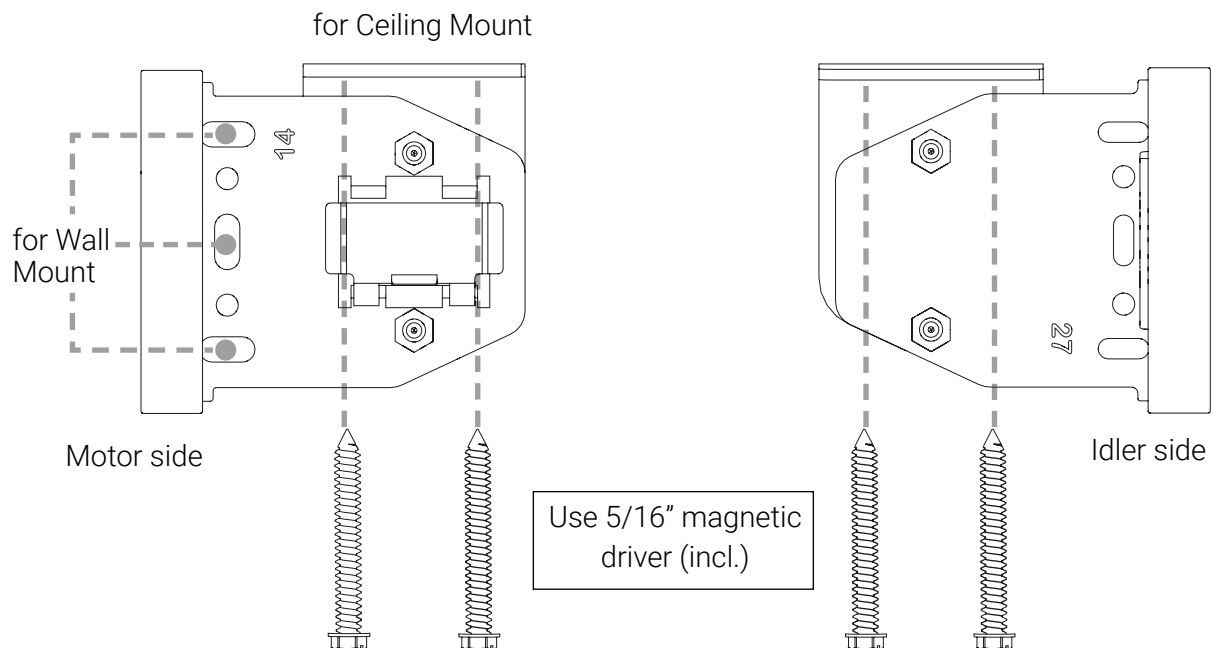
# INSTALLATION - 375 / 475 SERIES (24v DC - 485 / RTS)

Before installing the shades, verify whether the shade was ordered as standard roll or reverse roll. Though illustrations in this manual show standard roll shades, the installation for reverse roll shades is the same.

1. If mounting to a wall, remove the ceiling flange from motor and idler brackets

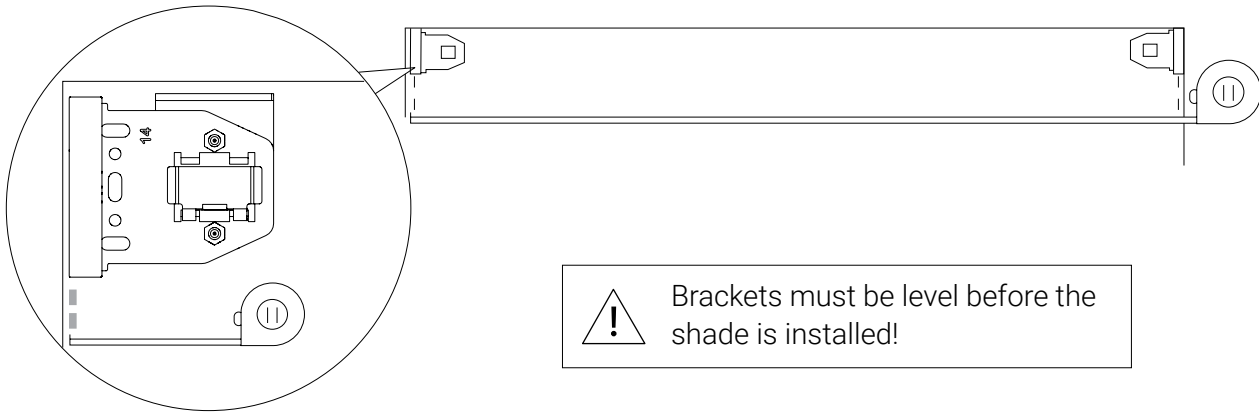


2. Install wall bracket/end cap assembly with the supplied screws

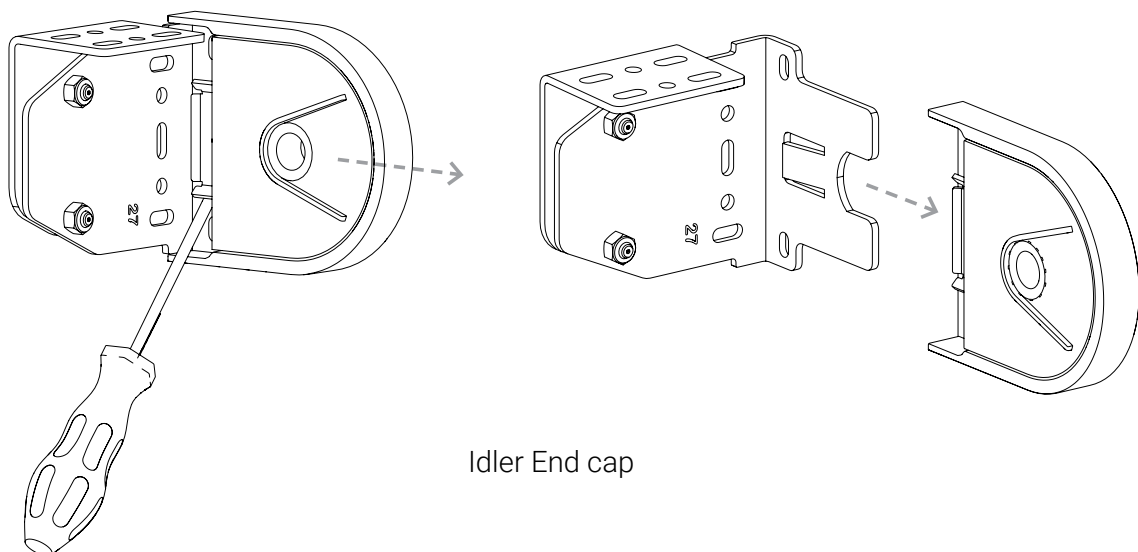
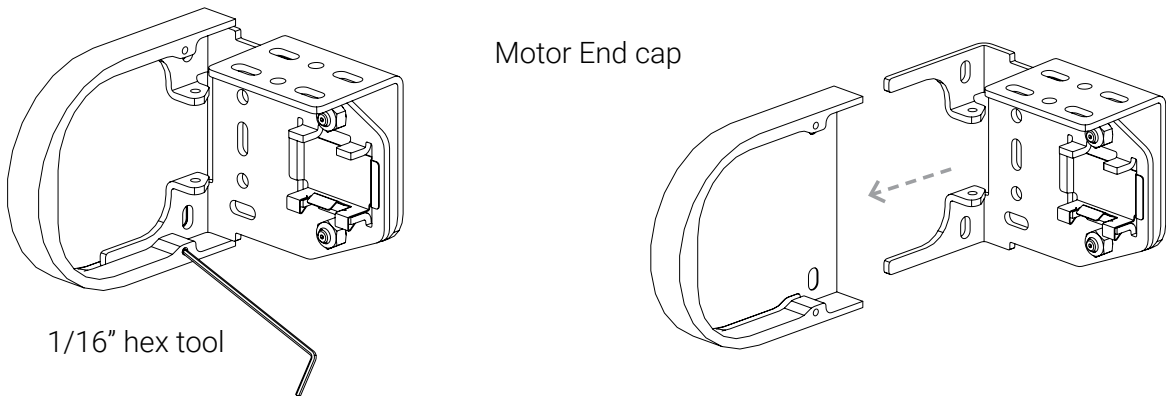


# INSTALLATION - 375 / 475 SERIES (24v DC - 485 / RTS)

4. Measure bracket to bracket width and verify it matches the ordered width. Adjust accordingly.

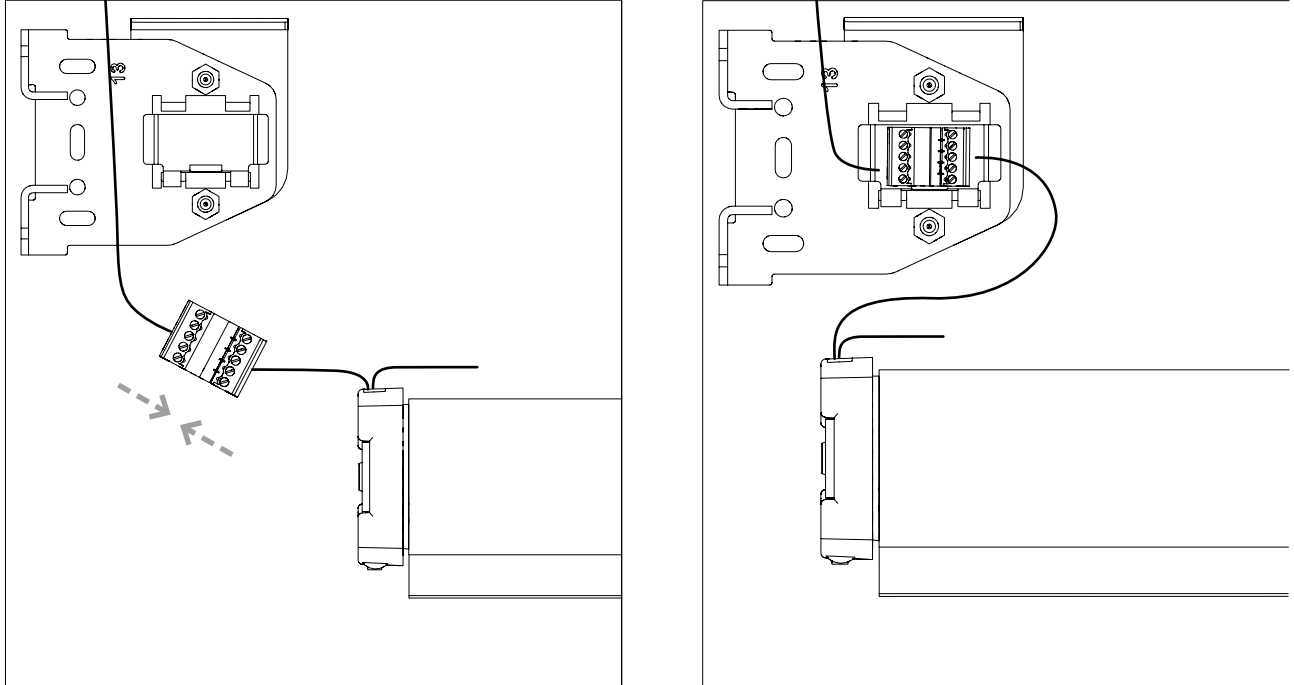


5. Remove both end caps

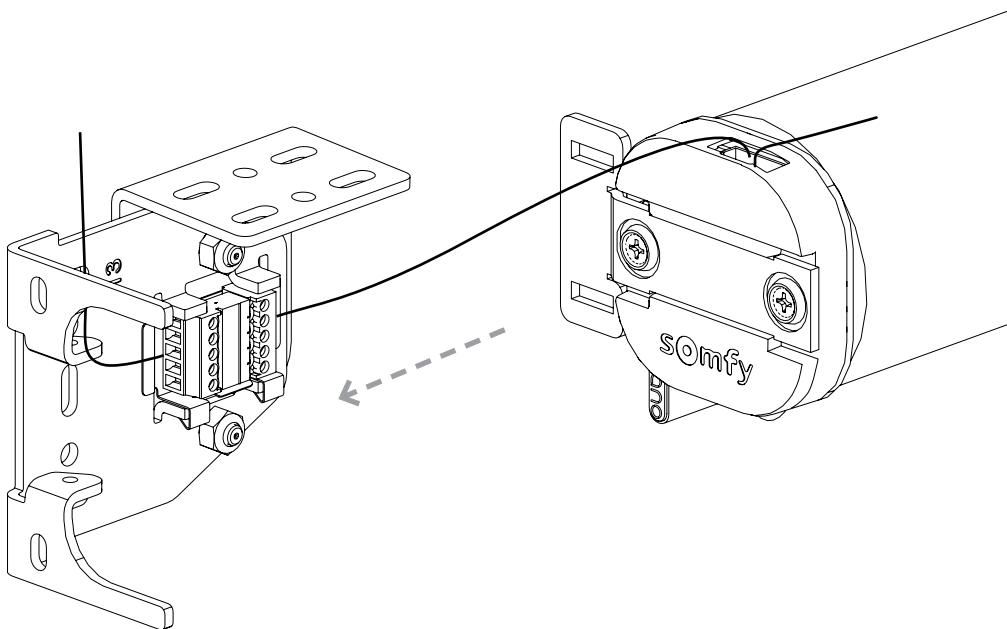


# INSTALLATION - 375 / 475 SERIES (24v DC - 485 / RTS)

1. Connect shade and pre-wire, snap connector into spring clip.

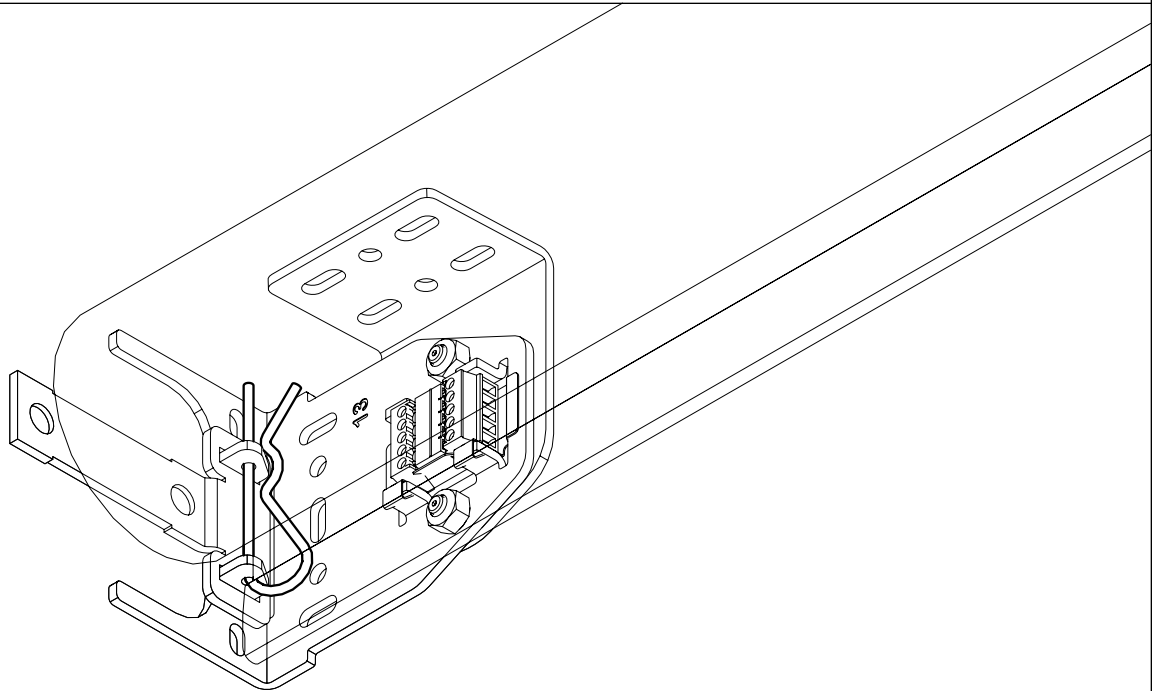
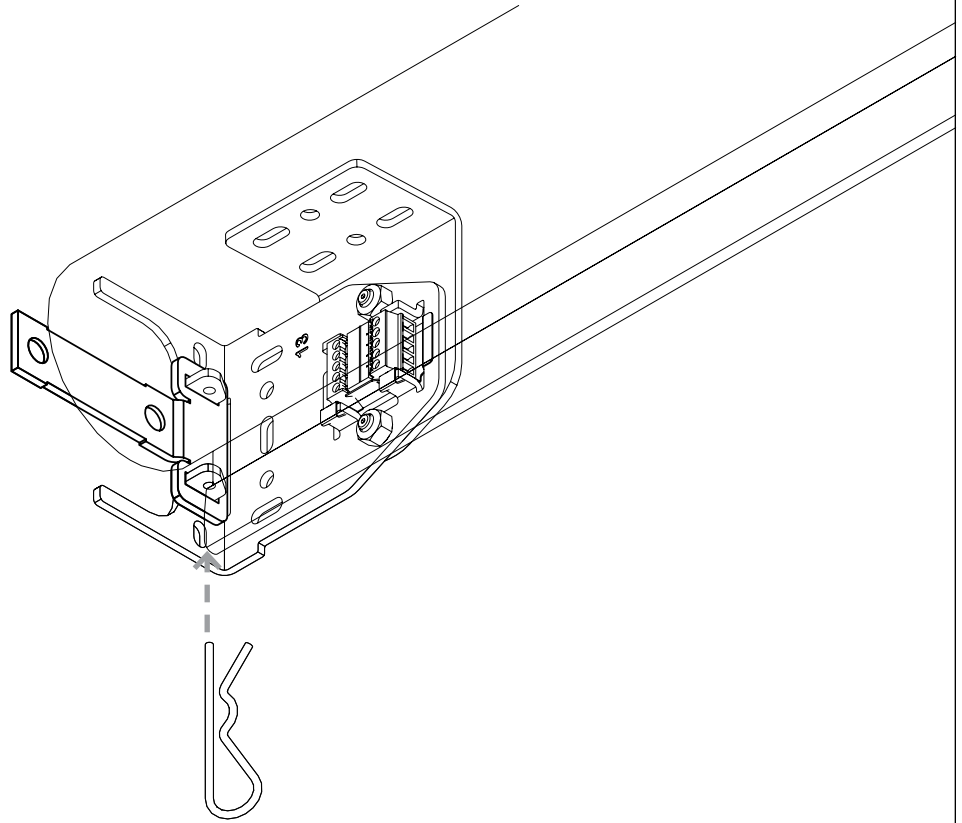


2. Align and insert the motor side.



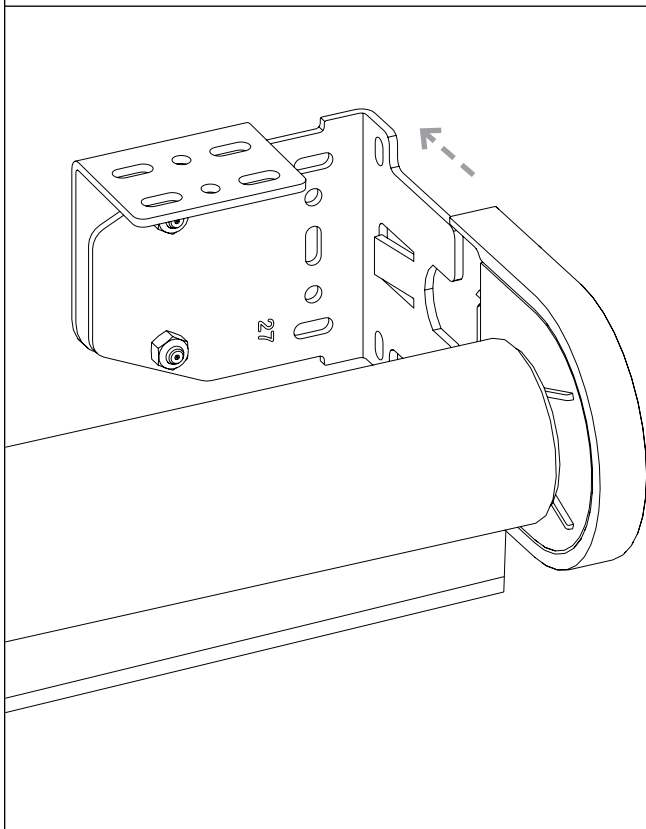
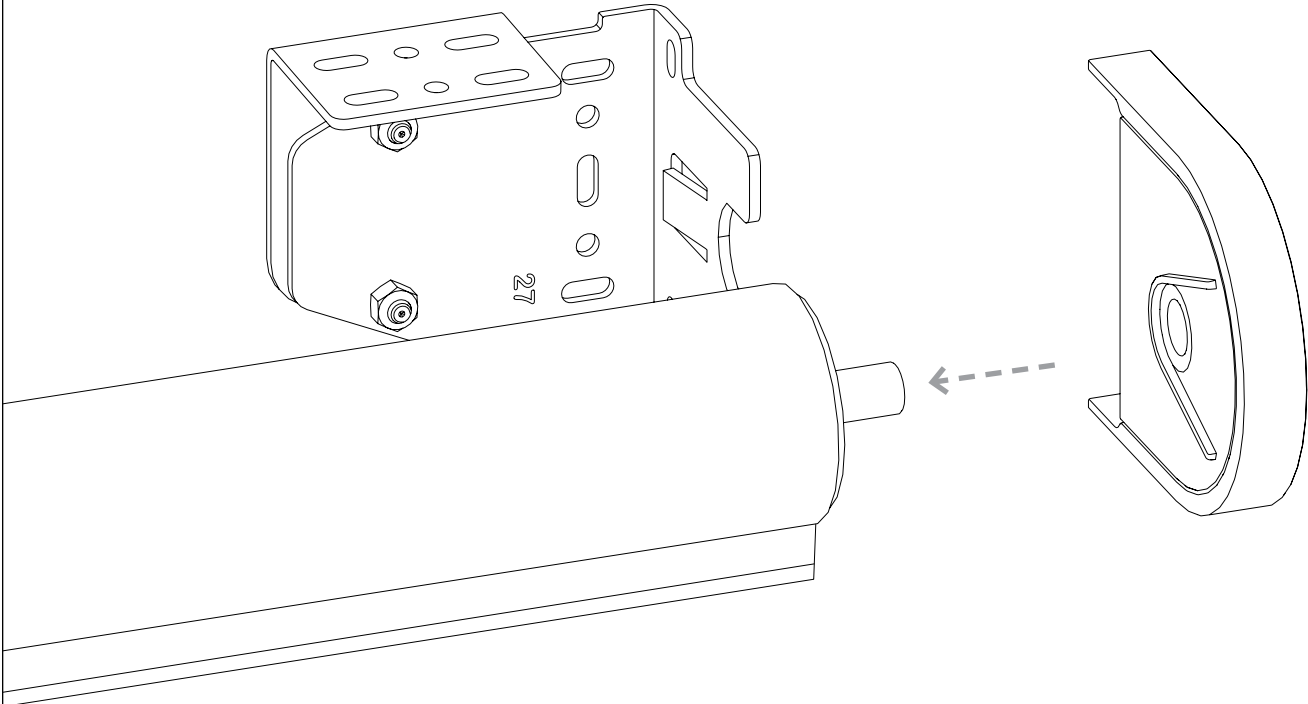
# INSTALLATION - 375 / 475 SERIES (24v DC - 485 / RTS)

1. Make sure the motor head bracket is fully seated. Secure with cotter pin.

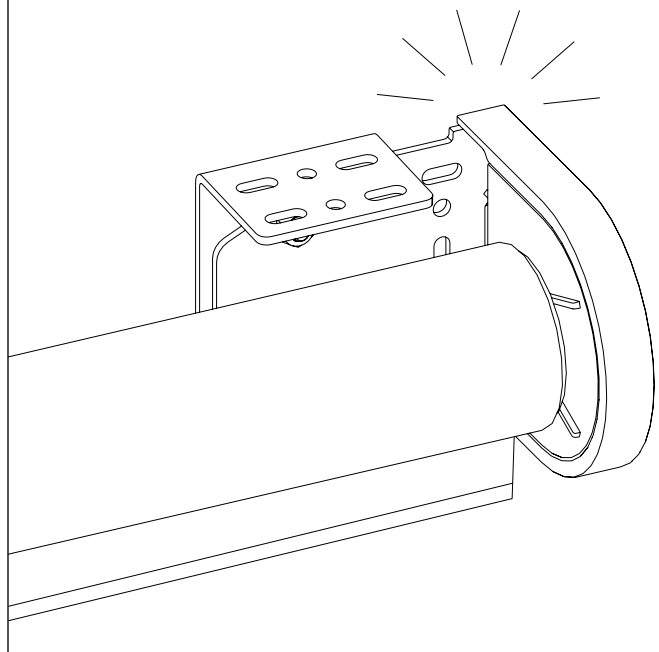


# INSTALLATION - 375 / 475 SERIES (24v DC - 485 / RTS)

2. Put idler end cap over idler and snap into place.

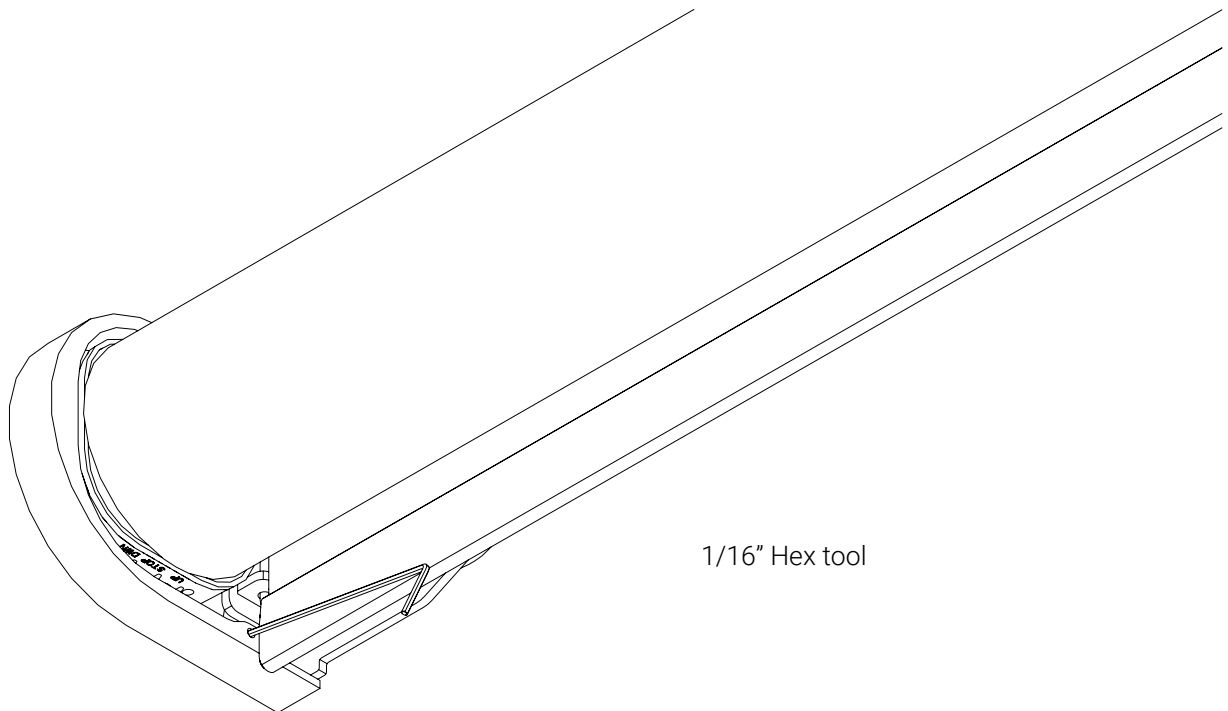
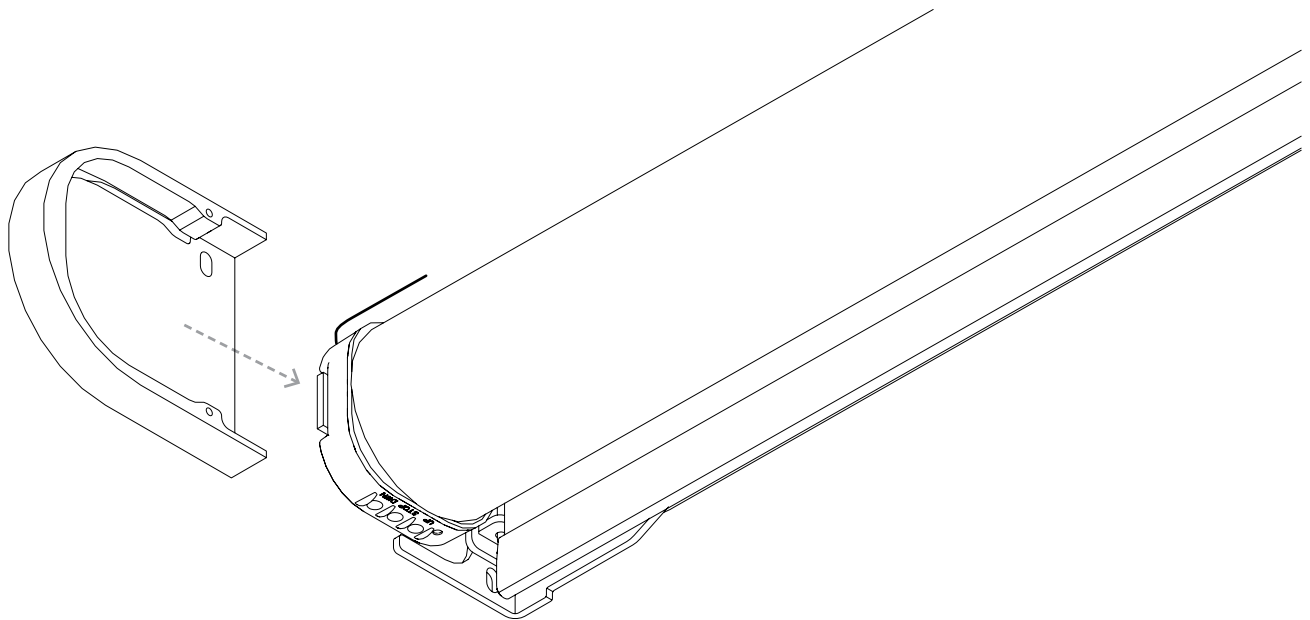


There will be an audible click.



# INSTALLATION - 375 / 475 SERIES (24v DC - 485 / RTS)

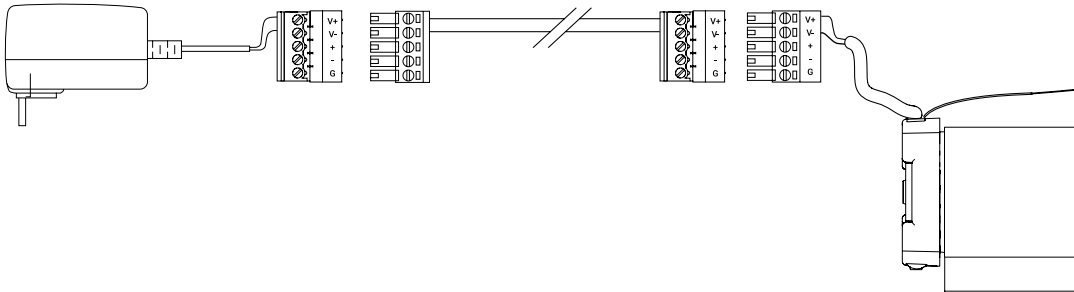
3. Replace and fasten motor end cap



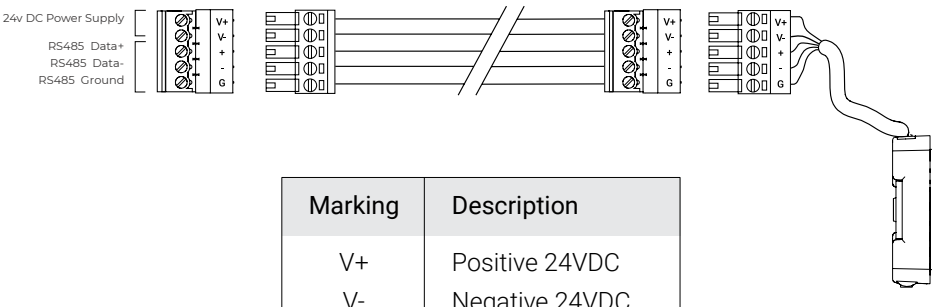


# LOW VOLTAGE (DC) & CONTROL – WIRING

## Low – Voltage Power (DC Motor)



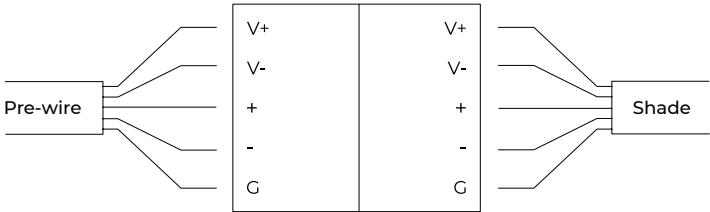
## Low – Voltage Power and 485 Control Wiring (DC Motor)



Marking	Description
V+	Positive 24VDC
V-	Negative 24VDC
+	485 Data Positive
-	485 Data Negative
G	485 Data Ground

# WIRE CONSIDERATIONS – NANO ROLL

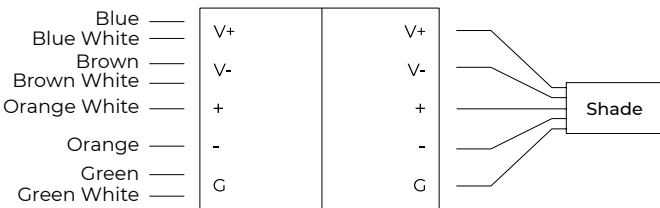
## 24v DC – Using 5 Conductor Wire



Wire Gauge (AWG)	Maximum Supported Wire Length (FT.)
14	250
16	150
18	100

## 24v DC – Using UTP Wire

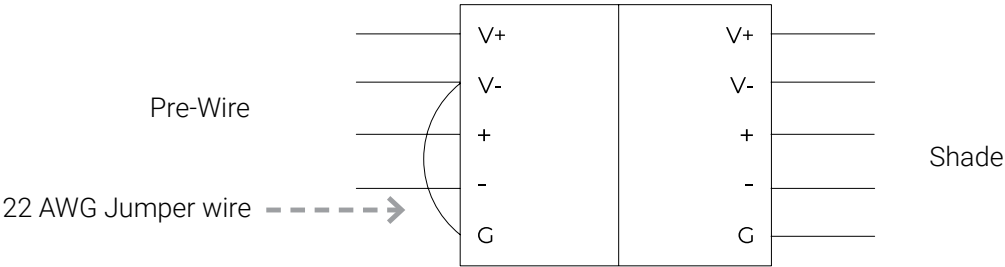
Wire between Janus terminal block face and the motor only.



Wire Gauge (AWG)	Supported Wire Length (FT.)
24 w/o Spike	150 (275 Shade)
	100 (375 Shade)
24 w Spike	300 (275 Shade)
	150 (375 Shade)

## TERMINATION FOR 4 – CONDUCTOR THIRD PARTY CABLE

If the pre-wire does not have a third insulated data conductor for the 485 ground, terminate the wire as shown below; use the same termination on both ends.



# COMMISSIONING GUIDE REFERENCE

## Motor Quick Commissioning Guide:

Based on your order, refer the motor (485/ RTS) your screen uses.

Scan the QR code, alternately use the link below to access

<https://files.screeninnovations.com/Downloads/Programming+Guides/quick-motor-commissioning-guide.pdf>



# CONTROLS GUIDE REFERENCE

With your screen order, you shall receive one of the below mentioned Controls Guides which will walk you through integrating with control system.

## Fontus Screen Control Guide (Dry Contact, 12v Trigger, IR):

Scan the QR code, alternately use this link to access

<https://files.screeninnovations.com/Downloads/Installation+Instructions/Connectivity/fontus-screen-control-installation-instructions.pdf>



## TRO.Y Installation Instructions (RS232, IP Control, 3rd party Control system):

Scan the QR code, alternately use this link to access

<https://files.screeninnovations.com/Downloads/Installation+Instructions/Connectivity/troy-installation-instructions.pdf>



## LinkPro Z Installation Instructions (IP Control, 3rd party Control system):

Scan the QR code, alternately use this link to access

<https://files.screeninnovations.com/Downloads/Installation+Instructions/Connectivity/LinkProZ-installation-instructions.pdf>



Scan this QR Code to access the updated installation instructions and related documents.

**Technical Support:** 512.832.6939

**Hours of Support:** 7:30am - 5pm CST

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