Nano Roll

Installation Instructions

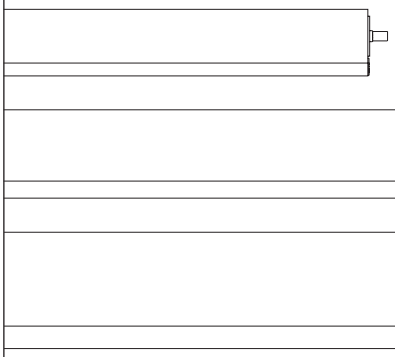
24v DC - Zigbee / RTS

INSTALLERS: Please leave this manual with the owner.

Doc. # 400029

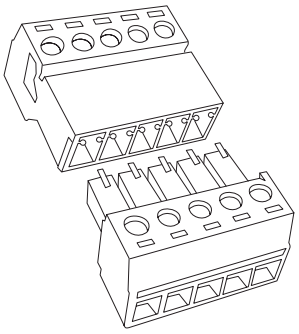
PARTS LIST - NANO ROLL - 24v DC - ZIGBEE / RTS

Shades

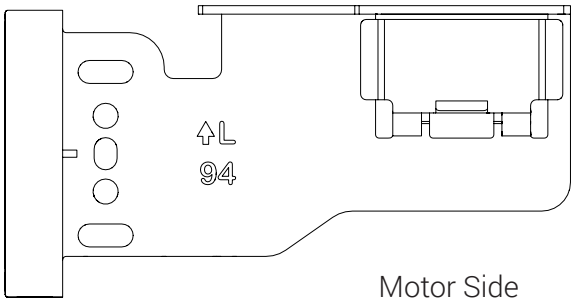


Please note all the Serial No.s on your Shade motors.
See the last page on these instructions.

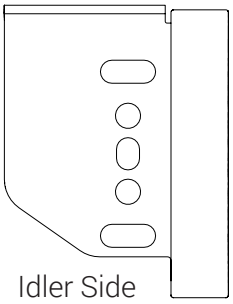
Terminal Blocks



Wall Brackets (275) + End Caps



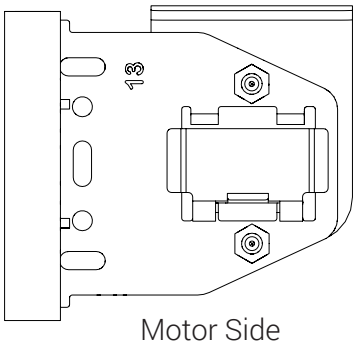
Motor Side



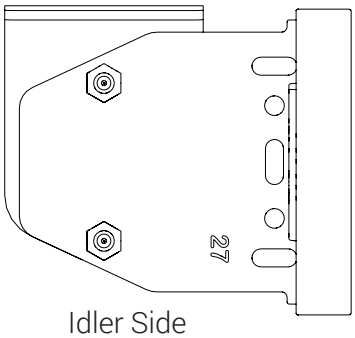
Idler Side

Screws included (3 per bracket)

Wall Brackets (375 / 475) + End Caps



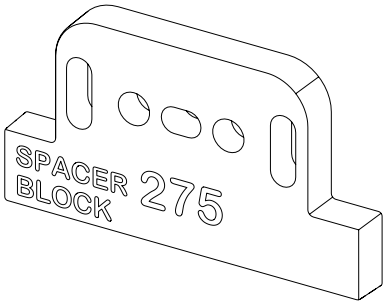
Motor Side

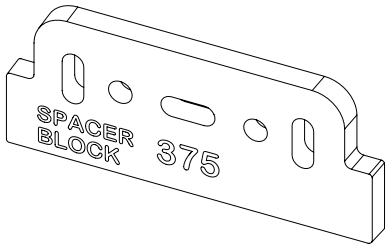


Idler Side

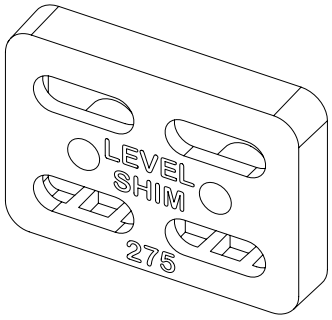
PARTS LIST - NANO ROLL - 24v DC - RTS

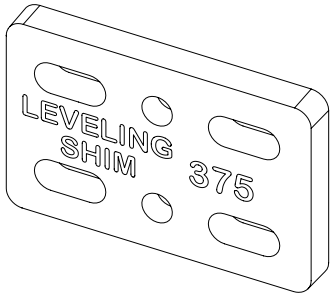
Spacer Blocks (optional)





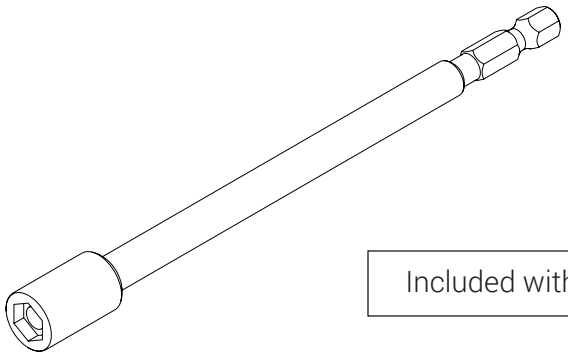
Leveling Shims (optional)



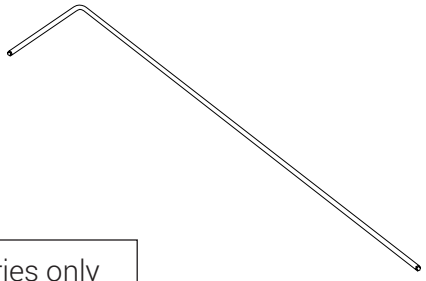


ADDITIONAL ACCESSORIES

5/16” Magnetic Driver

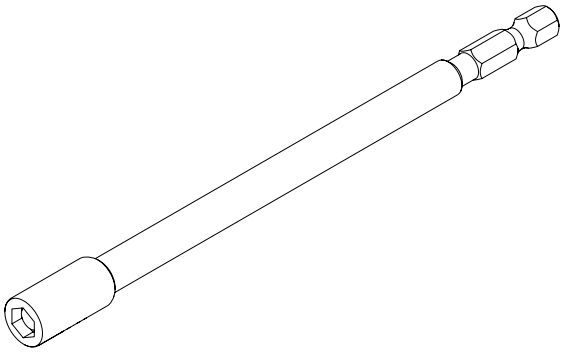


Set Screw Hex Tool (1/16”)



Included with 375 / 475 series only

1/4” Magnetic Driver

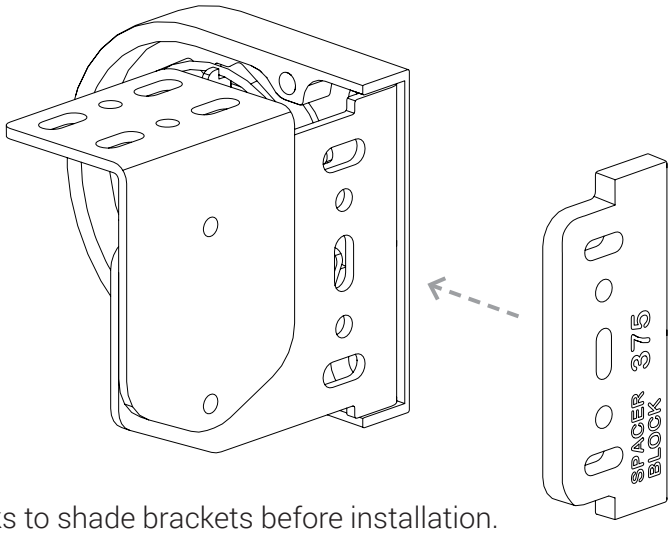


Included with 275 series only

Note: For more information about these tools and their use, please call Tech Support at 512.832.6939 Opt. 1

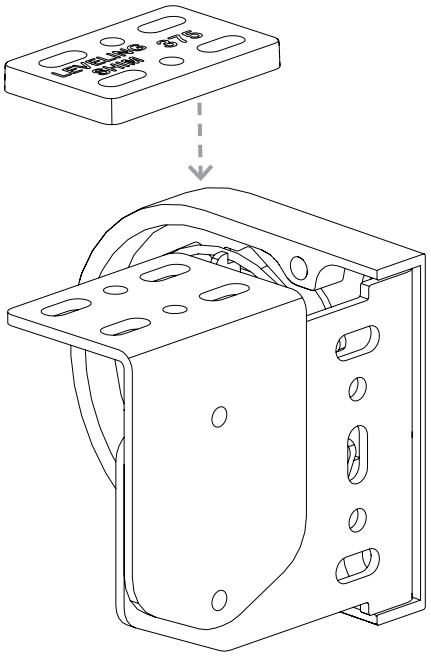
SPACER BLOCKS AND LEVELING SHIMS (OPTIONAL)

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.

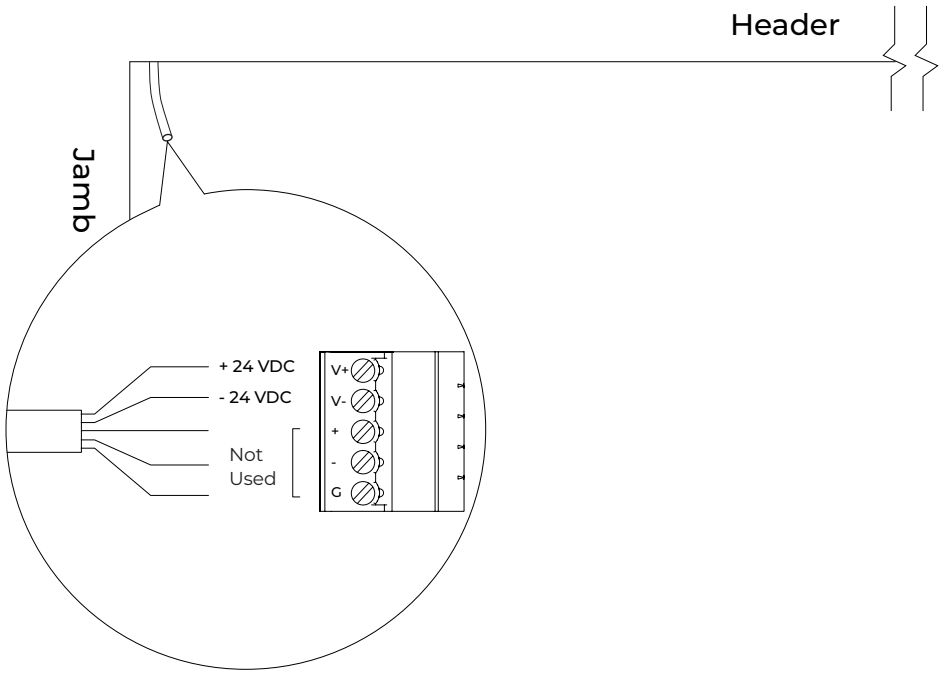


Connect to shade brackets before installation
Note: Do not use more than 2 leveling shims per bracket.

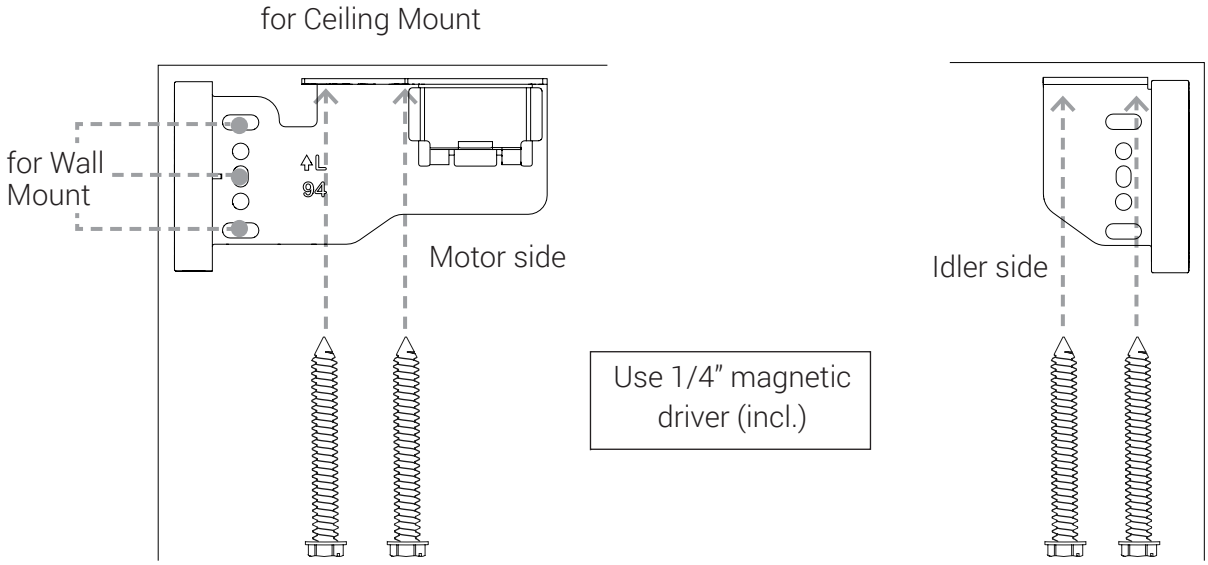
INSTALLATION - 24v DC - ZIGBEE / RTS (275 SERIES)

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. Terminate pre-wire with terminal block

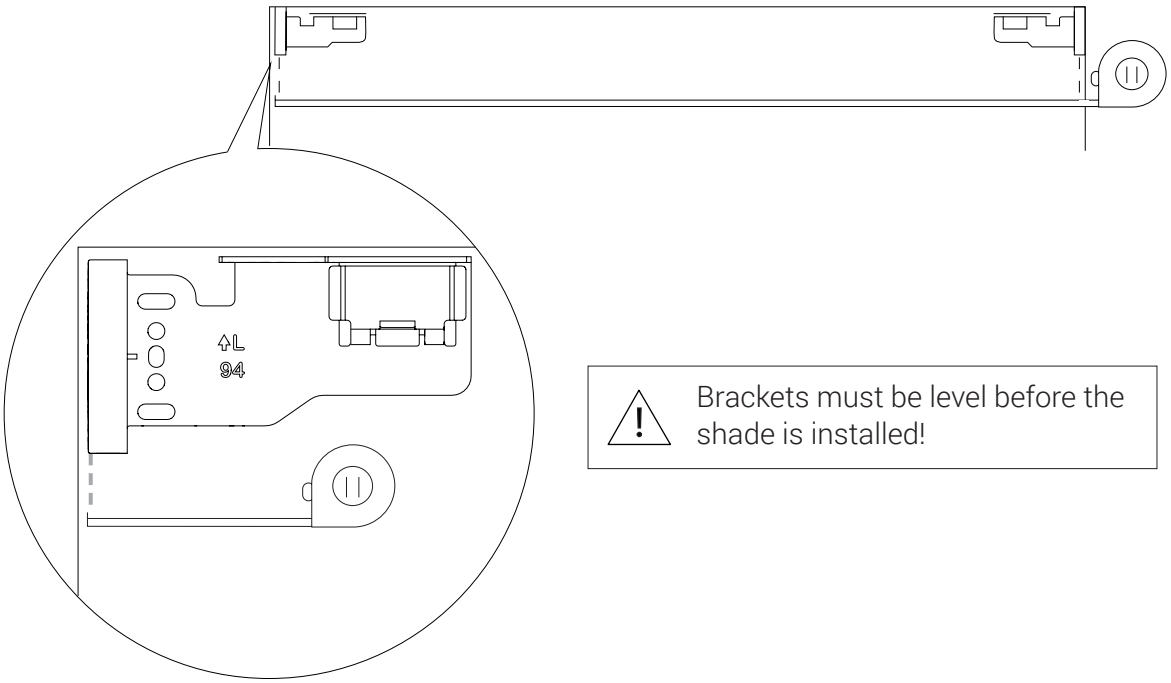


2. Install wall bracket/end cap assembly with the supplied screws



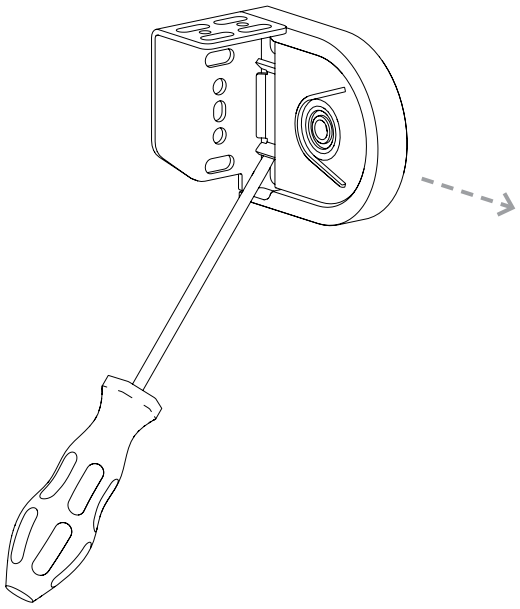
INSTALLATION - 24v DC - ZIGBEE / RTS (275 SERIES)

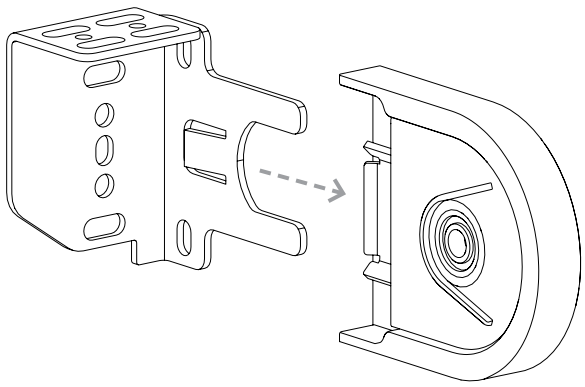
3. Measure bracket to bracket width and verify it matches the ordered width. Adjust accordingly.



Brackets must be level before the shade is installed!

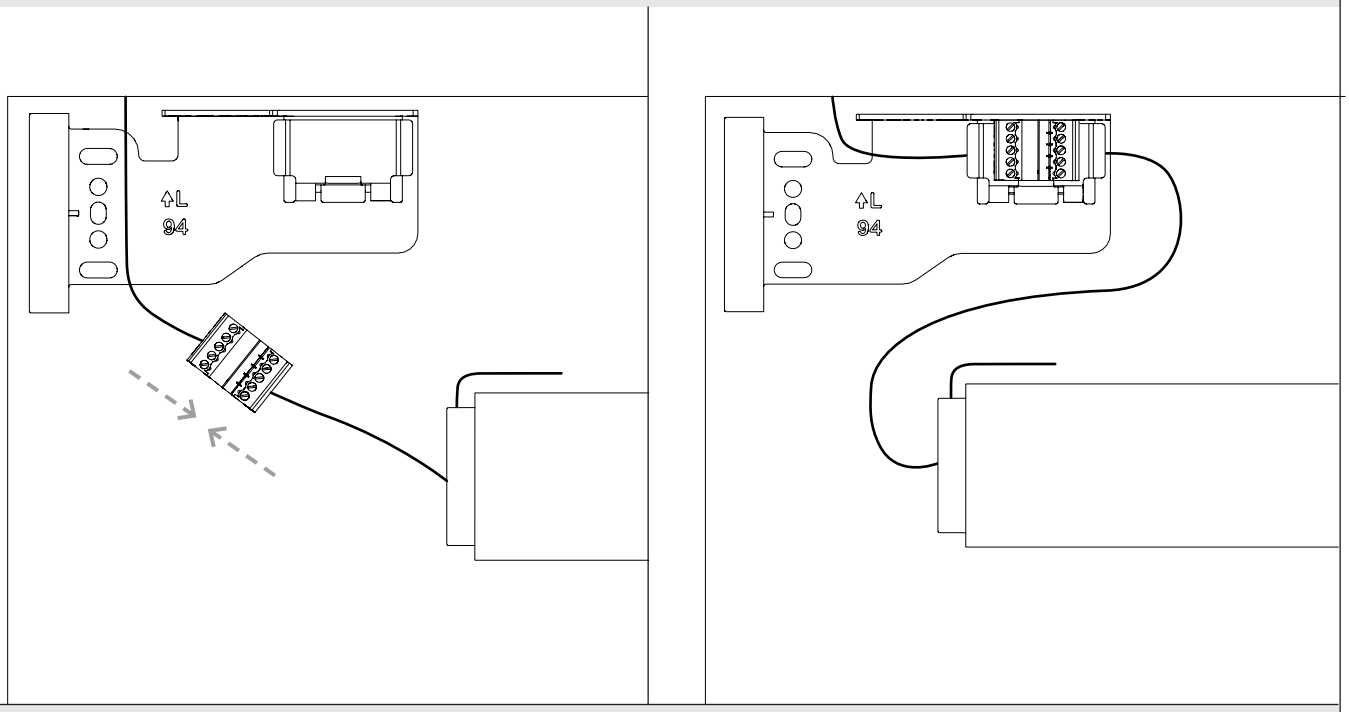
4. Remove idler end cap with flat screw driver





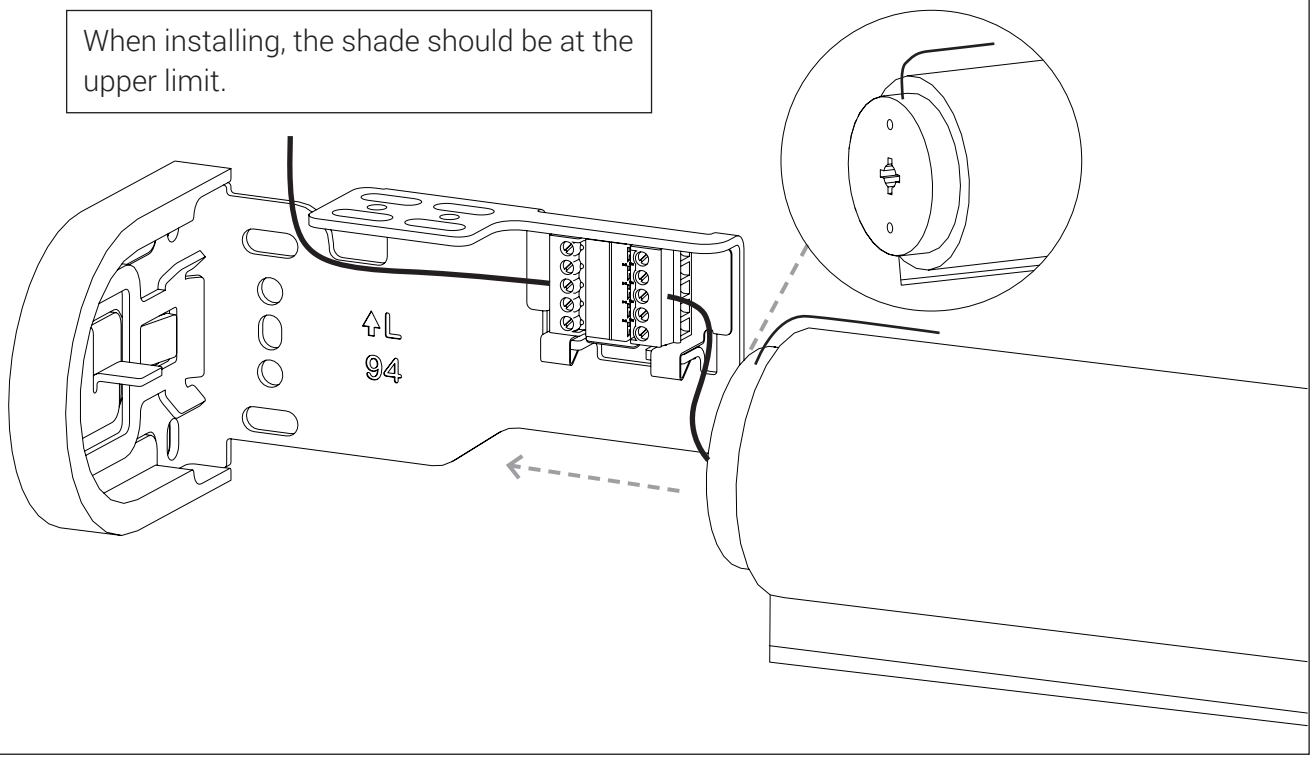
INSTALLATION - 24v DC - ZIGBEE / RTS (275 SERIES)

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

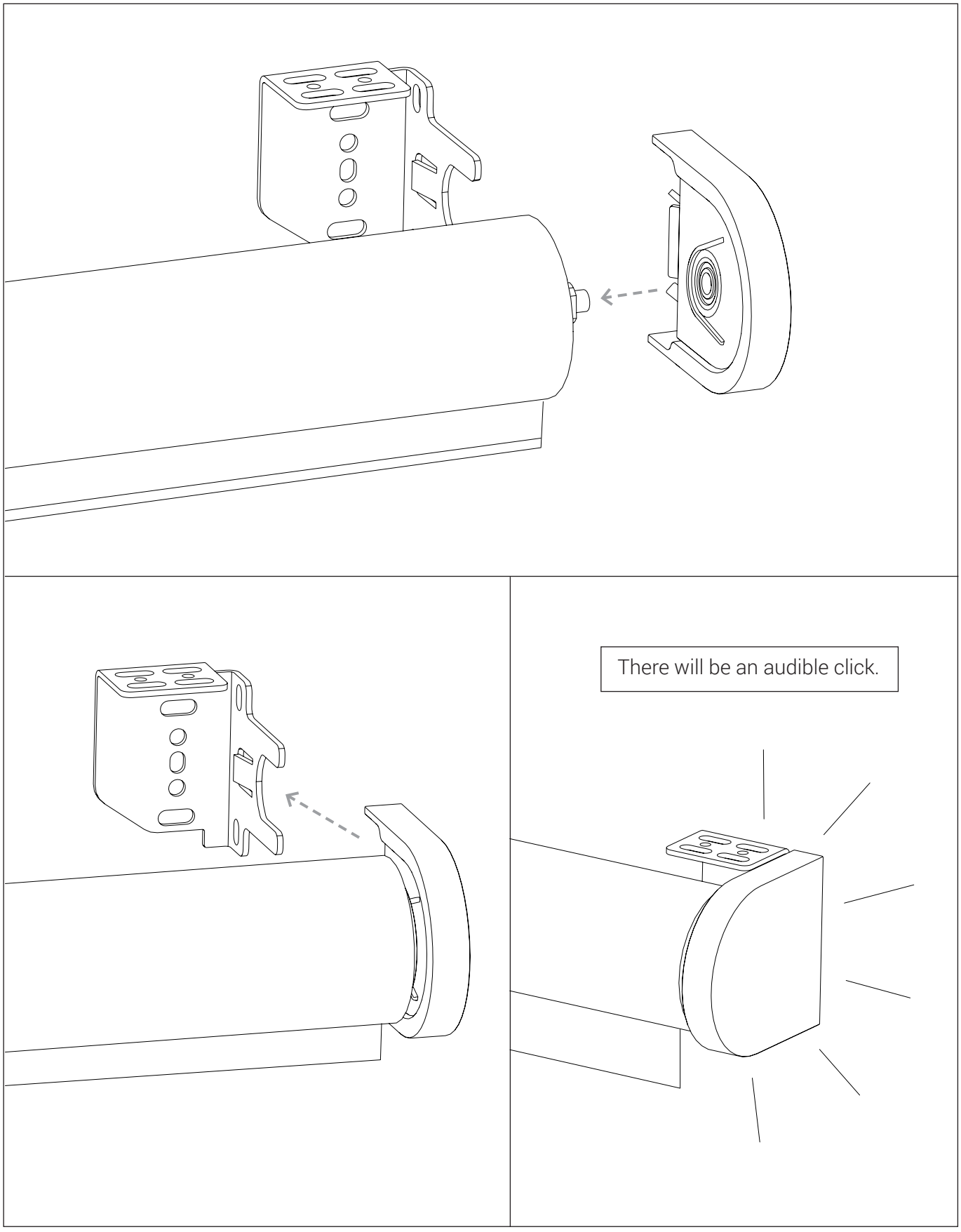


6. Insert motor side completely. Then, while supporting motor side, put idler end cap over the idler and snap into place.

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

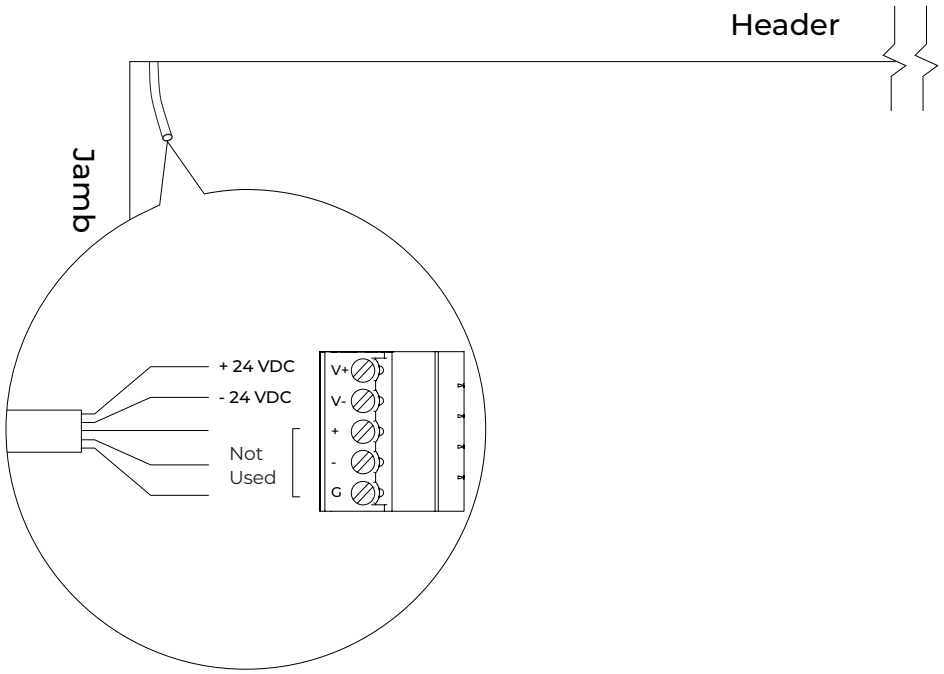


INSTALLATION - 24v DC - ZIGBEE / RTS (275 SERIES)

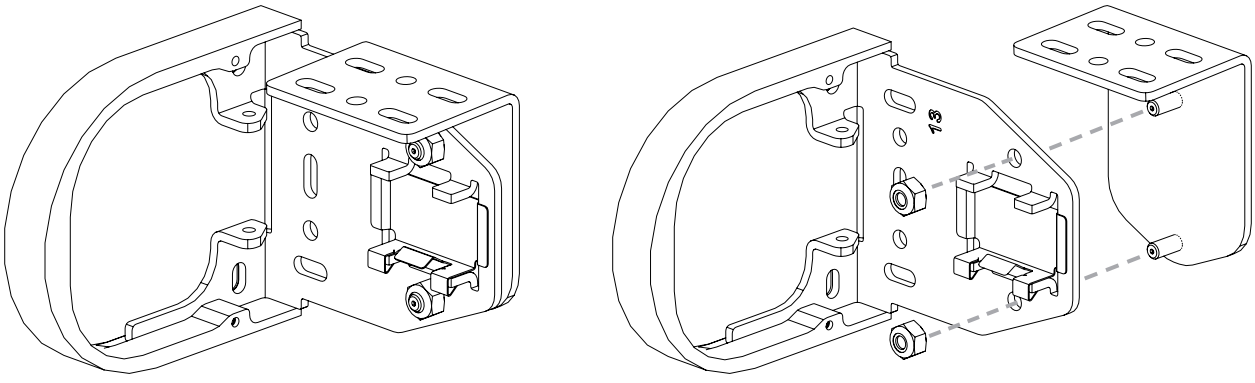


INSTALLATION - 24v DC - RTS (375 / 475 SERIES)

1. Terminate pre-wire with terminal block

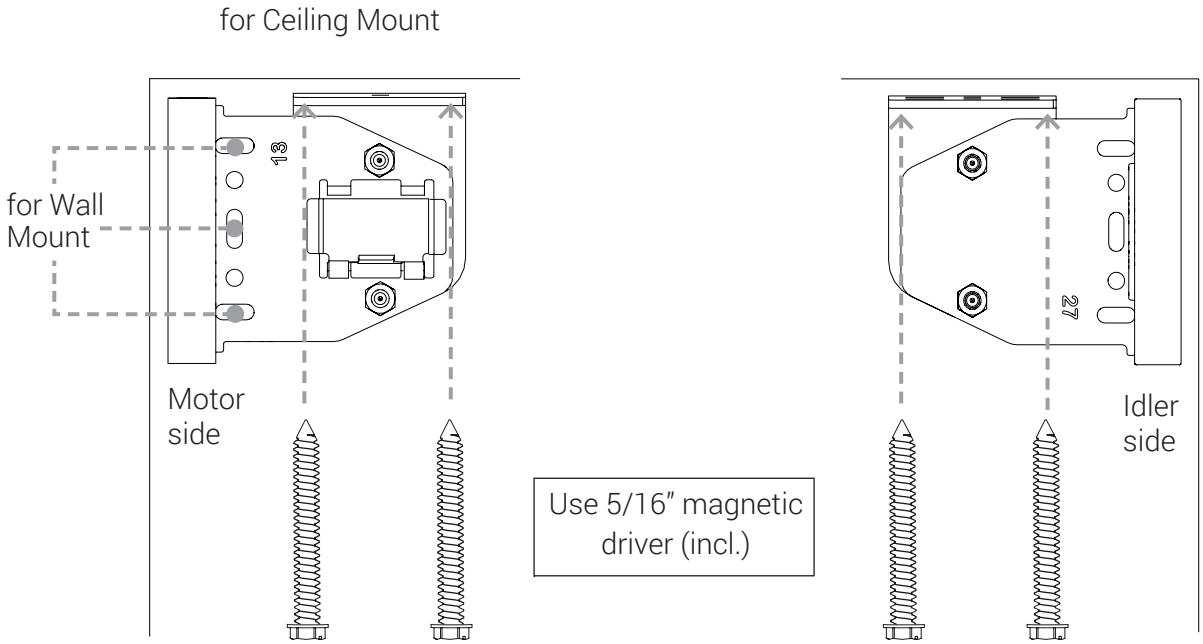


2. If mounting to a wall, remove the ceiling flange from motor and idler brackets



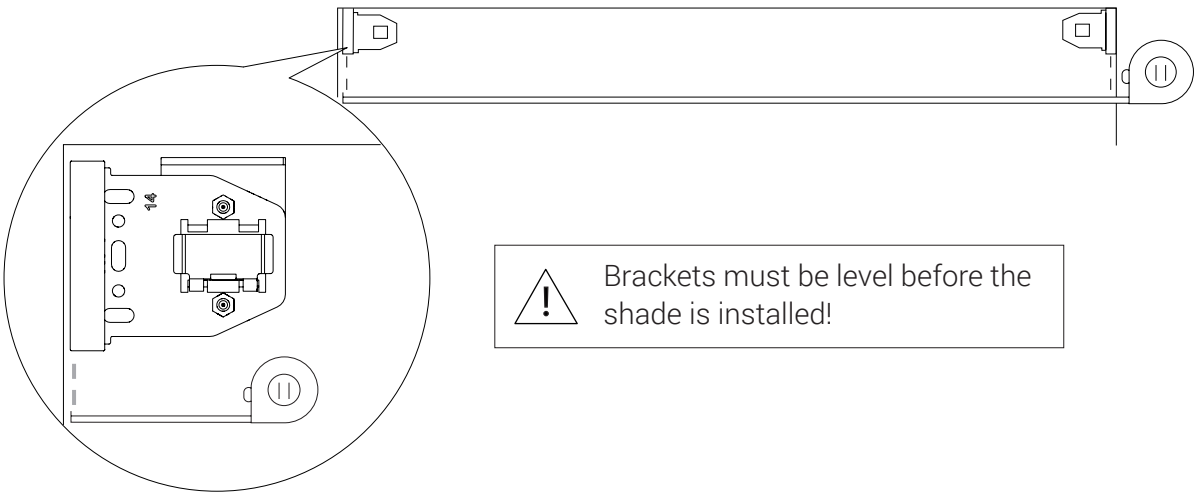
INSTALLATION - 24v DC - RTS (375 / 475 SERIES)

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



Use 5/16" magnetic driver (incl.)

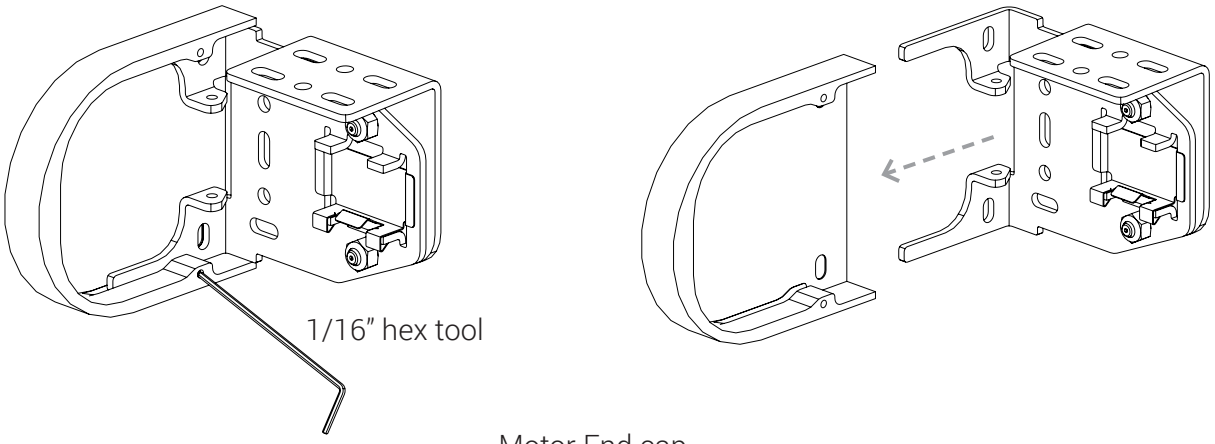
3. Measure bracket to bracket width and verify it matches the ordered width. Adjust accordingly.



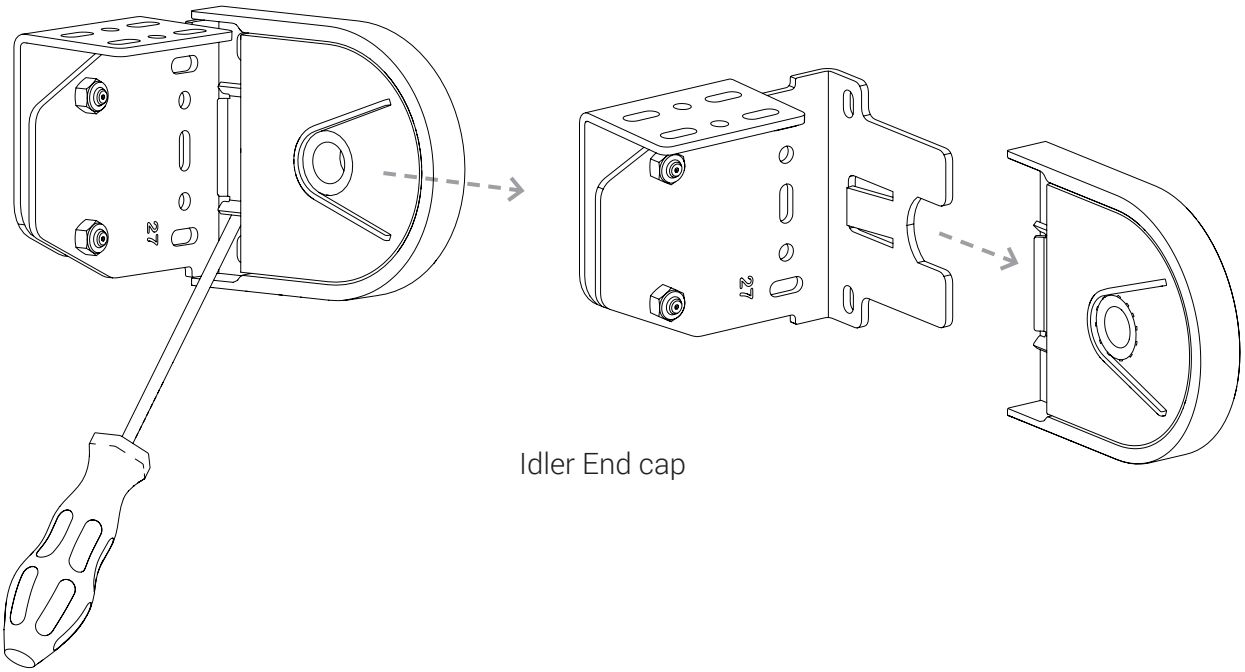
⚠ Brackets must be level before the shade is installed!

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

4. Remove both end caps



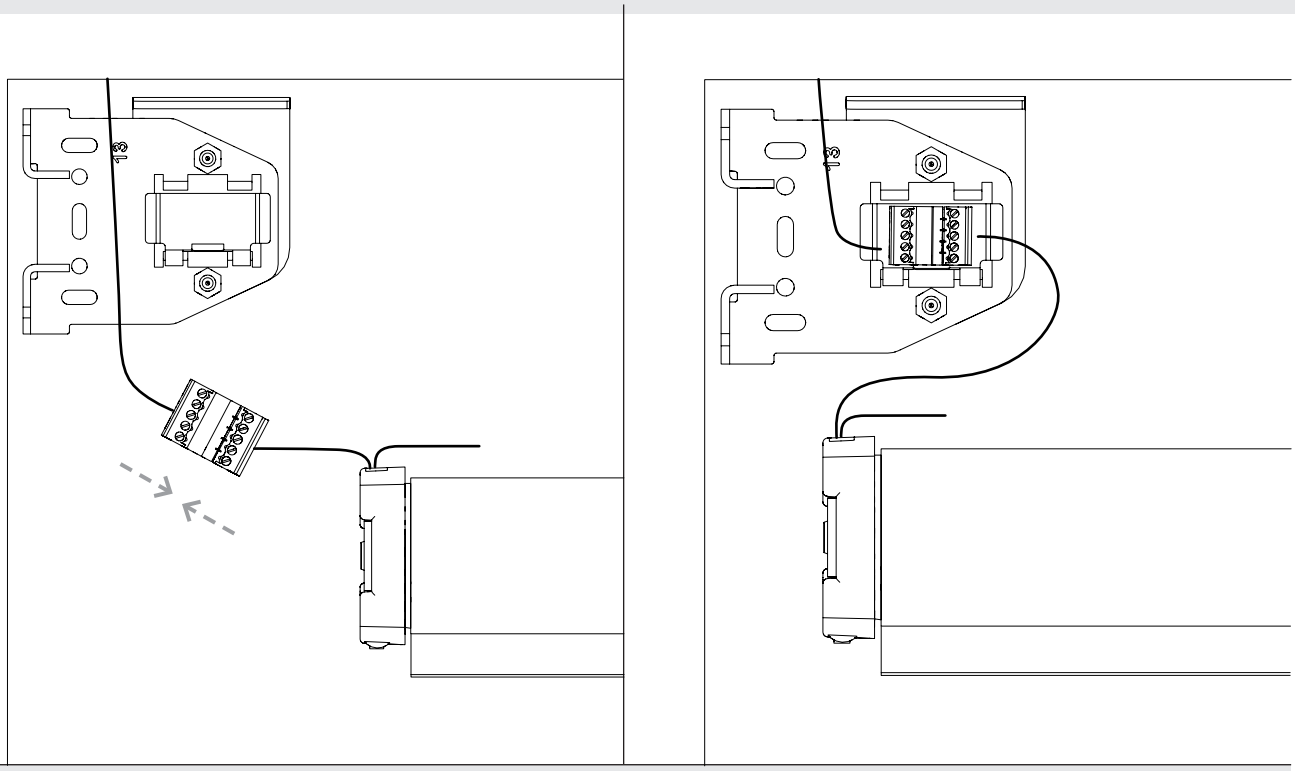
Motor End cap



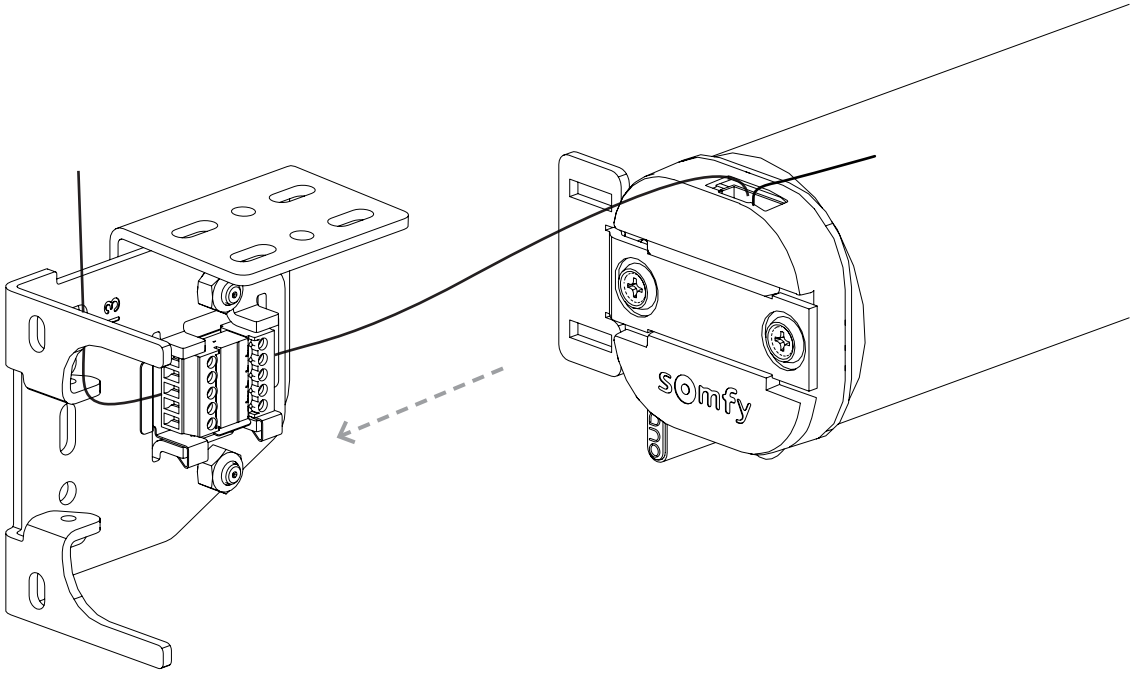
Idler End cap

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

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

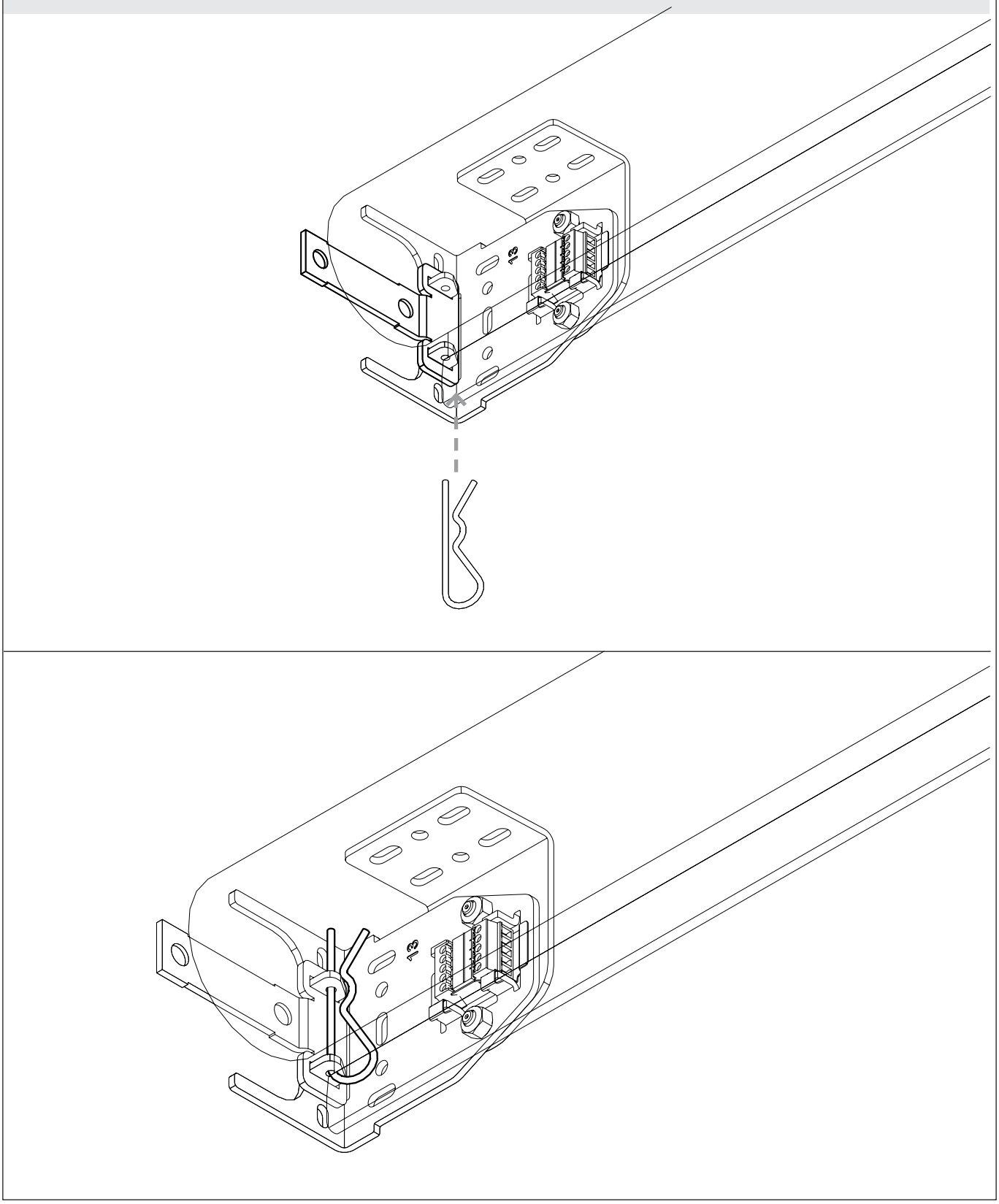


6. Align and insert the motor side.



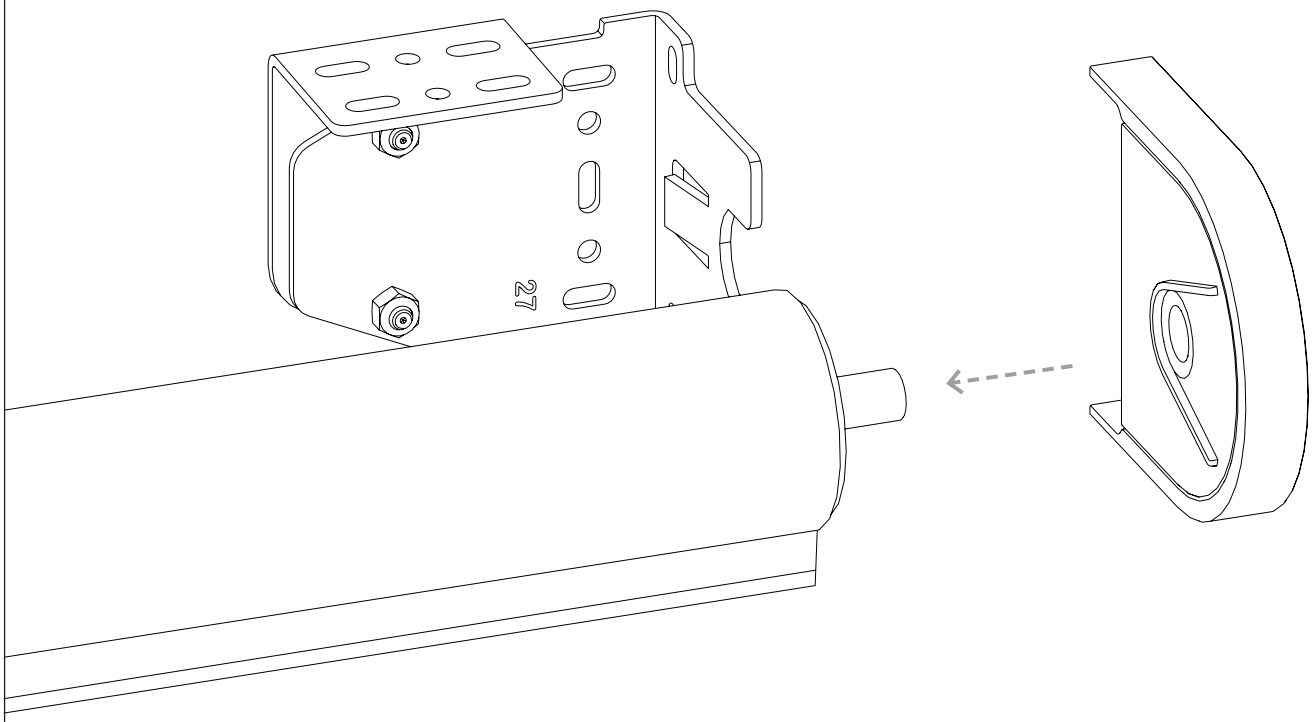
INSTALLATION - 24v DC - RTS (375 / 475 SERIES)

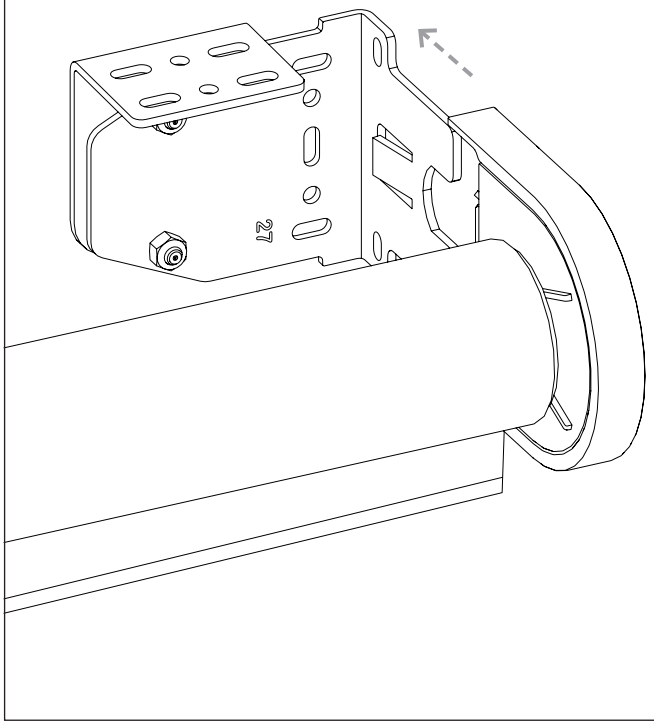
7. Make sure the motor head bracket is fully seated. Secure with cotter pin.



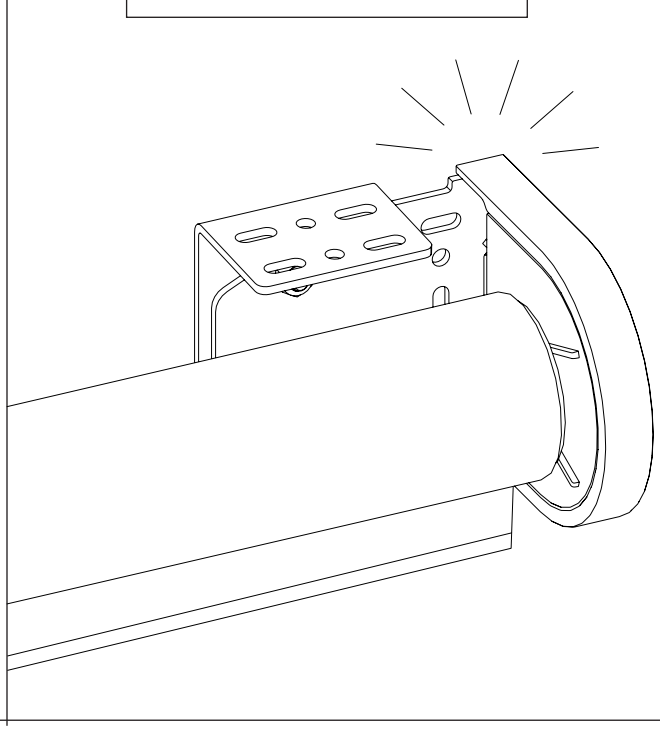
INSTALLATION - 24v DC- RTS (375 / 475 SERIES)

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



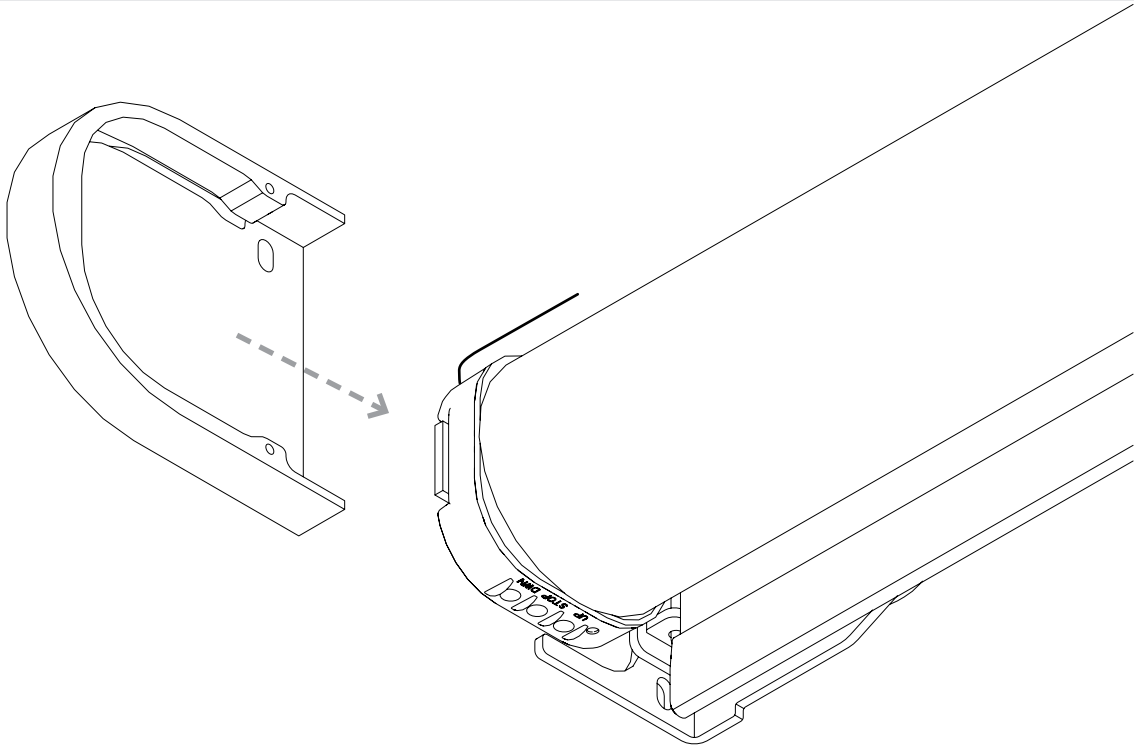


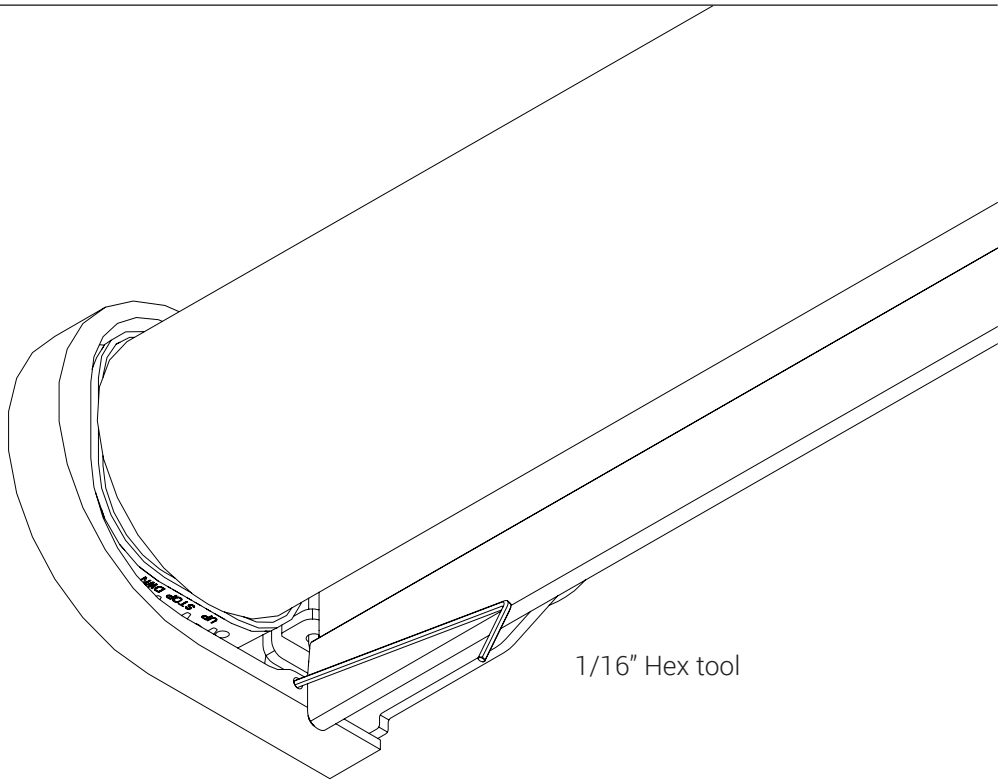
There will be an audible click.



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

9. Replace and fasten motor end cap

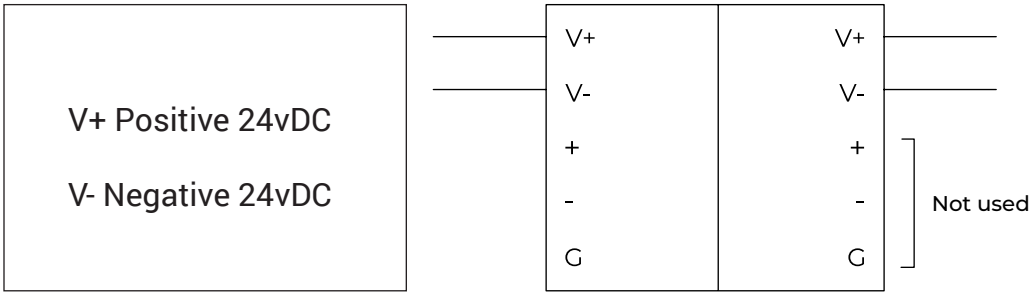




1/16" Hex tool

WIRING - 24v DC - ZIGBEE - RTS

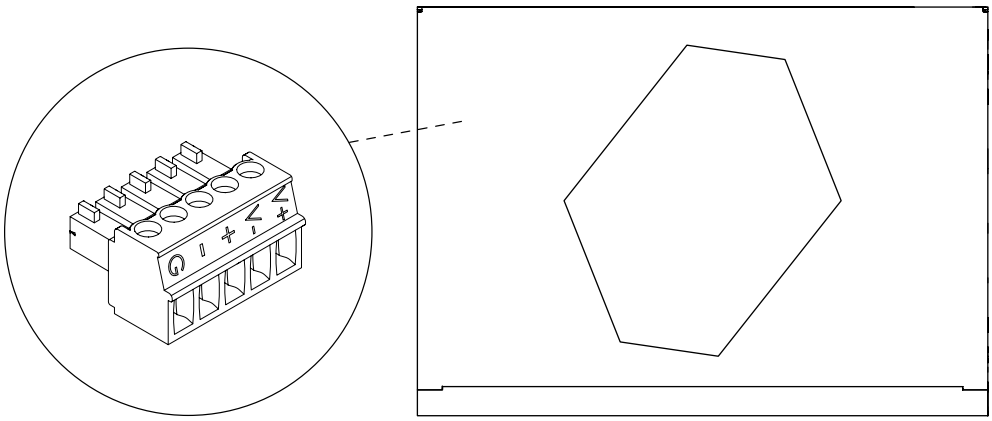
24v DC



For guaranteed motor performance the supplied voltage for 24v motors **must be 24v DC**. See the table below for maximum wire lengths.

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

If the motors are powered using a Janus connect the motors to the “+v” and “-v” ports on the terminal blocks. The RS485 ports are unused.



Only connect to +v and -v

PROGRAMMING - 24V DC - ZIGBEE

PROGRAMMING STEPS
(TaHoma/LinkPro Z must be plugged in and on the network)

Step 1: Fine tune lower limit.
Step 2: Assign shades to groups and remotes.
Step 3: Pair devices and groups with remotes.

The lower limit of every shade is preprogrammed to 1/2" from the bottom of the window. After installing each shade, follow these steps to adjust the lower limit:

STEP 1 - Fine tuning lower limit :

1. Click on the 3 dots in the lower right hand corner of the TaHoma app.
   Note: You may see a pop-up warning window which could damage the shade.
2. In settings click on advanced settings.
3. Select the shade you want to set the limits to.
4. You only want to select and adjust the lower limit.
   Note: Do not set upper limit or change rotation.
5. Press the down button in the app to move the shade to the Factory set lower limit.
6. Click Next.
7. Now make up or down adjustments to shade using the Up / Down increments. Each (button press) adjustment can take a couple seconds, to execute. Once you are satisfied with the new lower limit, press save Limit.

STEP 2 - Assign shades to groups :

All grouping of devices is completed within the TaHoma application:

1. Open the TaHoma application and navigate to the configuration tab.
2. Press the + symbol in the upper right corner.
3. Choose the Zigbee device type.
4. Select "Add Zigbee Group".
5. Label the group.
6. Select the devices you would like to be included in this group.

STEP 3 - Pair devices or groups with a remote:

All pairing of devices and groups to remotes is completed within the TaHoma application. In order to pair more than one shade to a channel, a group must be created first.

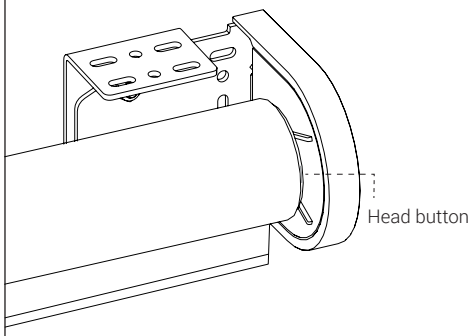
1. Open the TaHoma application and navigate to the configuration tab.
2. Press the chain/link button next to the remote being configured.
3. Select the shade or group to pair from the list and deselect any other devices.
4. Quick press the programming button on the back of the remote and click OK in the application to confirm.

NOTE: Each Zigbee Situo remote channel will be capable of pairing to a group containing up to 20 motors.

TROUBLESHOOTING - 24V DC - ZIGBEE

Problem	Possible Cause	Action to Take
For Zigbee		
TaHoma LED is Red.	No internet connectivity.	Check network connection to the internet, and ensure the TaHoma is properly connected via ethernet or Wifi.
Shade won't operate.	Low-voltage power supply	Verify wiring, terminations and AC power connections to your power supply.

TROUBLESHOOTING WITH SUPPORT



With our Support team guidance, you may be instructed to press the motor head button. If instructed, pressing this button for 2 seconds, can take the motor out of delivery mode and will result in 1 jog.

Note: Under no circumstances, should you hold this Head button for more than 2 jogs.

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

Technical Support: 512.832.6939
Hours of Support: 7:30am - 5pm CST

screeninnovations.com
support@screeninnovations.com

PROGRAMMING - 24V DC - RTS

PROGRAMMING STEPS (must follow in order)

Step 1: Fine tune lower limit

Step 2: Assign shades to groups

Step 3: Pair groups to control system (Mylink, LinkPro)

⚠ Warning: Do not attempt to use any installation remote until all the shades are installed.

Each RTS Nano shade includes an installation remote that is used to adjust limits and program group controls. These installation remotes are uniquely numbered to the shade they are paired with. The lower limit of every shade is preprogrammed to ½" from the bottom of the window. After installing each shade, follow these steps to adjust the lower limit:

STEP 1 - Fine tuning lower limit :

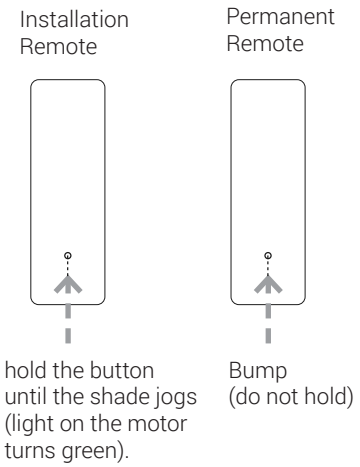
1. Beginning with the first shade, pull plastic tab from remote and press ▽ allowing shade to run to lower limit set at the factory.
2. When shade has stopped, adjust the lower limit by holding △ and ▽ simultaneously until the shade jogs.
3. Use △ or ▽ to move the shade to the desired lower limit.
4. Hold the **"My"** button until the shade jogs again.
5. Repeat this procedure at each window until all shades have lower limits set to desired positions.

STEP 2 - Assign shades to groups :

Next, program group controls. To pair with a permanent transmitter such as a multichannel Telis or DecoFlex, follow these steps.

1. Press and hold the program button on the back of the installation remote until the shade jogs.
2. Select the channel where you want to create a group, then bump (do not hold down) the program button on the back of the remote - the shade will jog.
3. Both remotes now control the shade.
4. Continue doing this with each shade until all shades are programmed in the desired groups.

NOTE: Each RTS motor can be paired with 12 unique transmitters.



STEP 3 - Pair Groups to control system (LinkPro, MyLink) :

1. Download the MyLink app.
2. Pair the grouped shades with LinkPro or MyLink according to the instructions in the MyLink app.

TROUBLESHOOTING - 24V DC - RTS

Problem	Possible Cause	Action to Take
For RTS		
Shade won't operate.	Motor is not powered.	When the battery of a wire free motor is low the user is notified by a series of red led flashes visible on the left end cap. These flashes will only occur after a command has been given. If the motor is low or dead, the charging cord can be plugged in and the shade will operate while charging.
	Remote button presses are too short.	When operating an RTS remote hold the buttons down for at least 2 seconds.
	The remote is being used out of range.	Move within 30ft. of the shade. If the issue persists, adjust the antenna to a new position, and make sure the antenna does not touch metal.
	The remote battery is out of place or drained.	Check that the red LED on the remote flashes when buttons are pressed. On the installation remote, pry off the back by hand and ensure the battery is fully seated in the battery tray. If the remote remains unresponsive, replace the battery with a CR2430 3V lithium cell.
Green LED light is flashing - shade is not operating properly (WireFree only).	The motor is in programming mode.	Briefly click the program button on the back of the installation remote. The green light will turn off and the shade will return to user mode.
		OR
		Move the shade to the lower limit by holding the up or down button. Hold the "My" button untill the screen jogs - the green LED will stop flashing.

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

Technical Support: 512.832.6939
Hours of Support: 7:30am - 5pm CST

screeninnovations.com
support@screeninnovations.com

MOTOR SERIAL NO.S

Please keep a note of all the Serial No.s on your shade motors. OR for larger shade orders, refer to your Sales Order document for the list.

Room

Shade 1

Shade 2

Shade 3

Shade 4

Shade 5

Shade 6

Room

Shade 1

Shade 2

Shade 3

Shade 4

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