Nano Duo

Installation Instructions

24v DC 485

INSTALLERS: Please leave this manual with the owner.

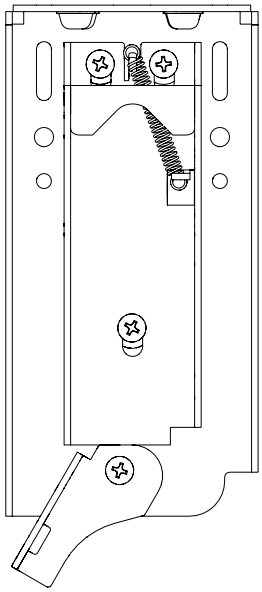
Doc. # 400107

PARTS LIST - NANO DUO - 24v DC - 485

Shades

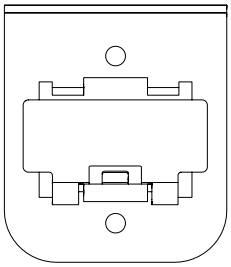
Please note all the Node IDs on your Shade motors.
See the last page on these instructions.

Wall Brackets (2)

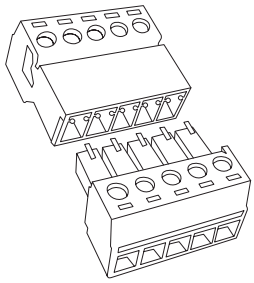


Screws Included
(3 per Bracket)

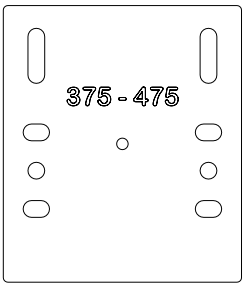
Terminal Block Brackets



Terminal Blocks

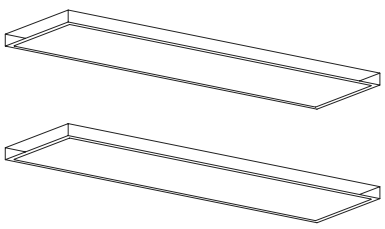


Spacer Blocks (optional - 4 per shade)



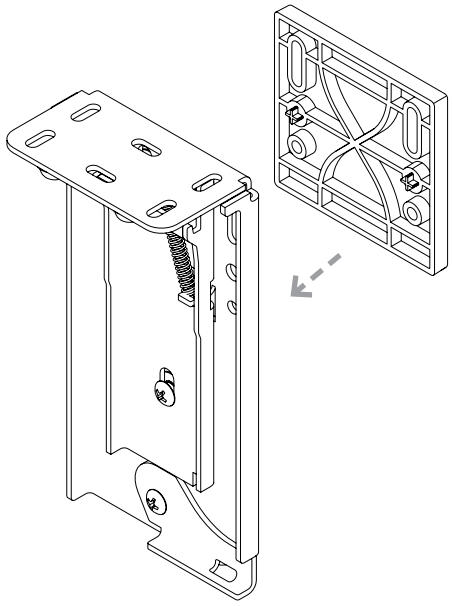
Longer Screws Included

Leveling Shims (4 per shade)



SPACER BLOCKS AND LEVELING SHIMS (OPTIONAL)

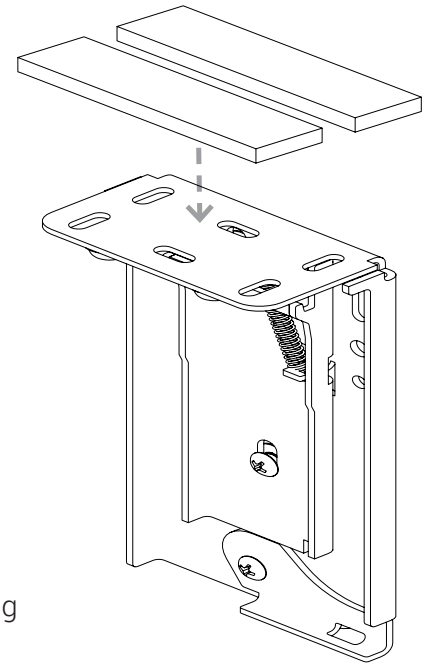
Spacer Blocks - used to clear an obstruction in the fabric path.



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.

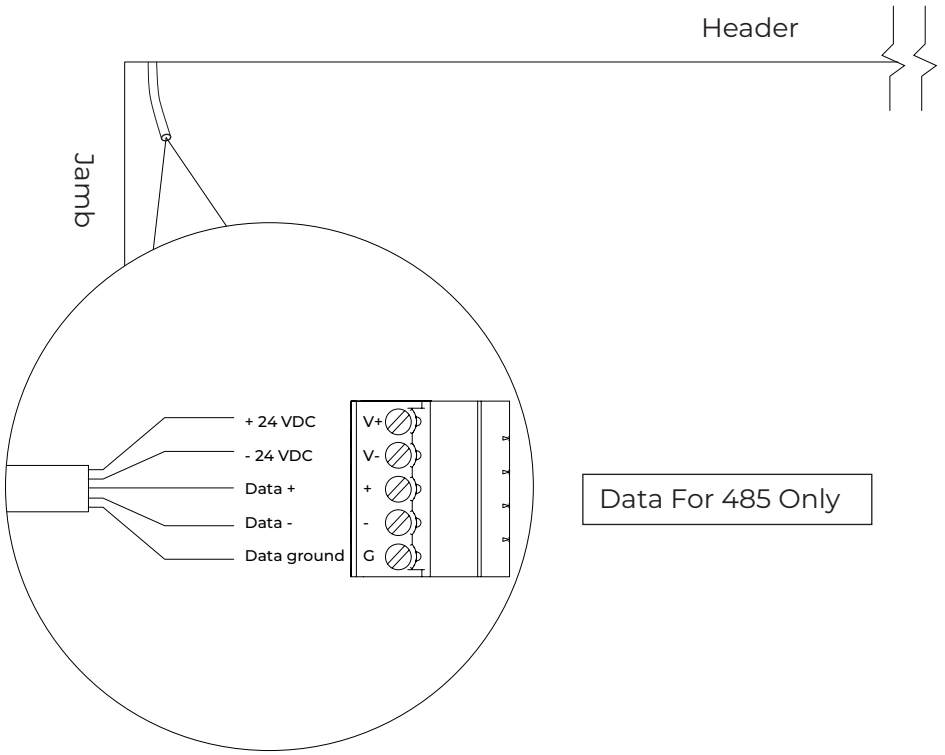


Connect to shade brackets before installation

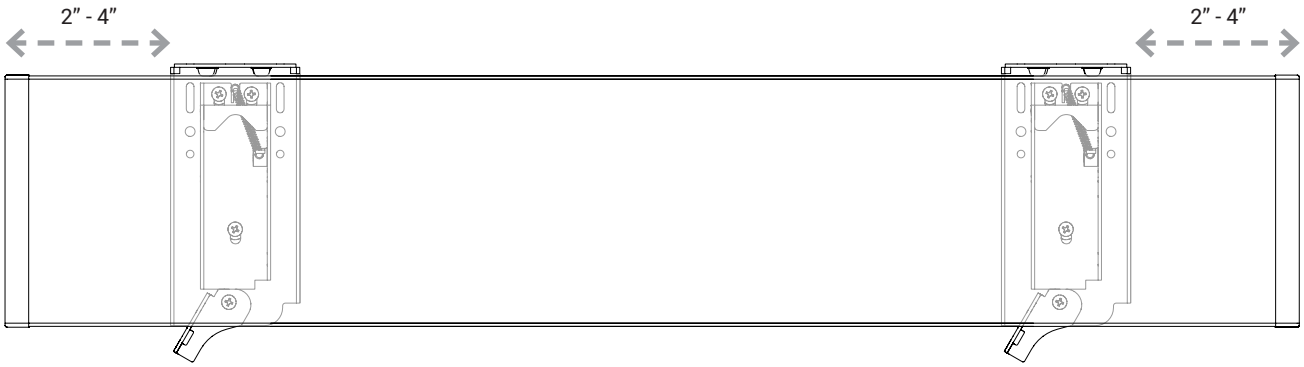
Note: do not use more than 2 leveling shims per bracket.

INSTALLATION - NANO DUO - 24v DC - 485

1. Terminate pre-wire with the supplied terminal block.



2. Wall bracket position is recommended 2″-4″ from end caps.



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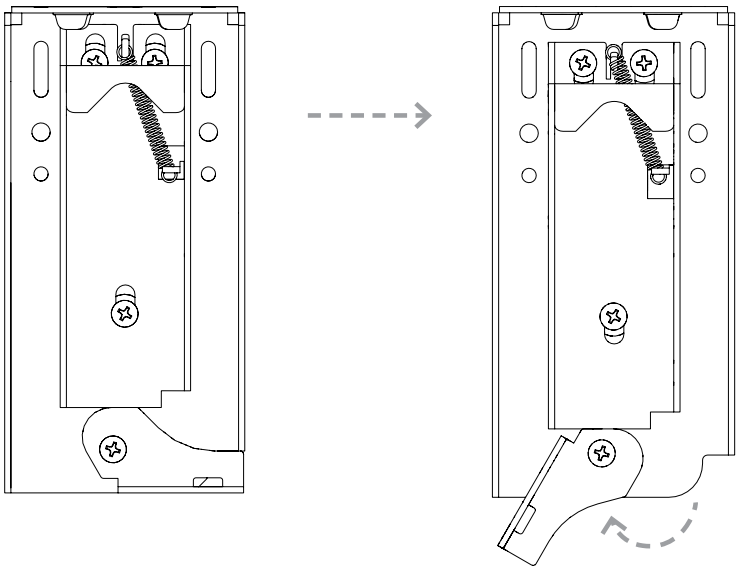
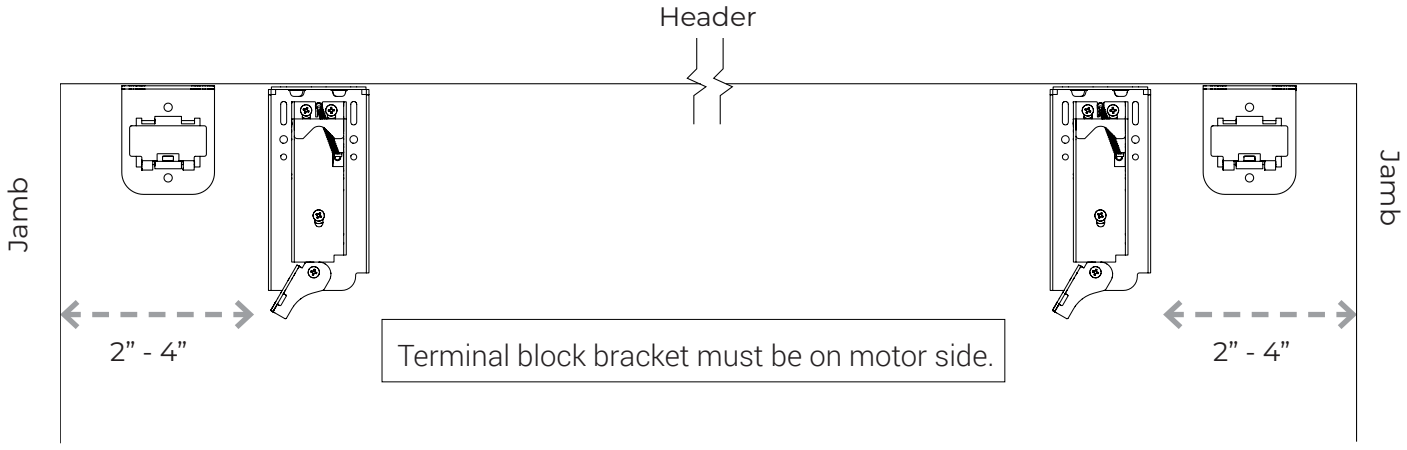
3. Make sure the wall bracket lever is down (may already be down).



Proper position for installing Box

4. Install terminal block bracket between jamb and wall bracket on the motor side using the supplied screws



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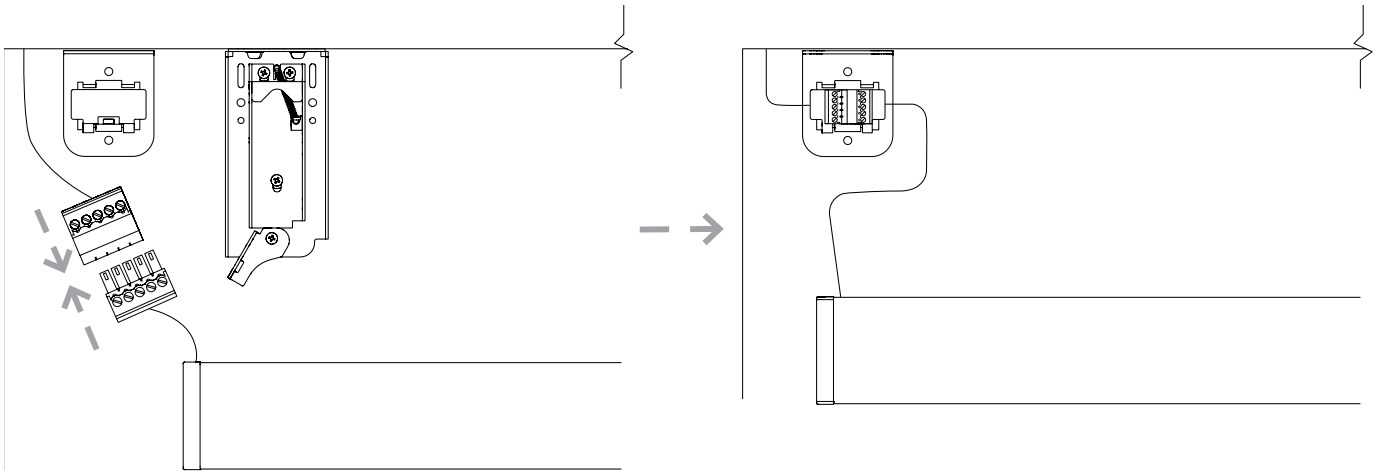
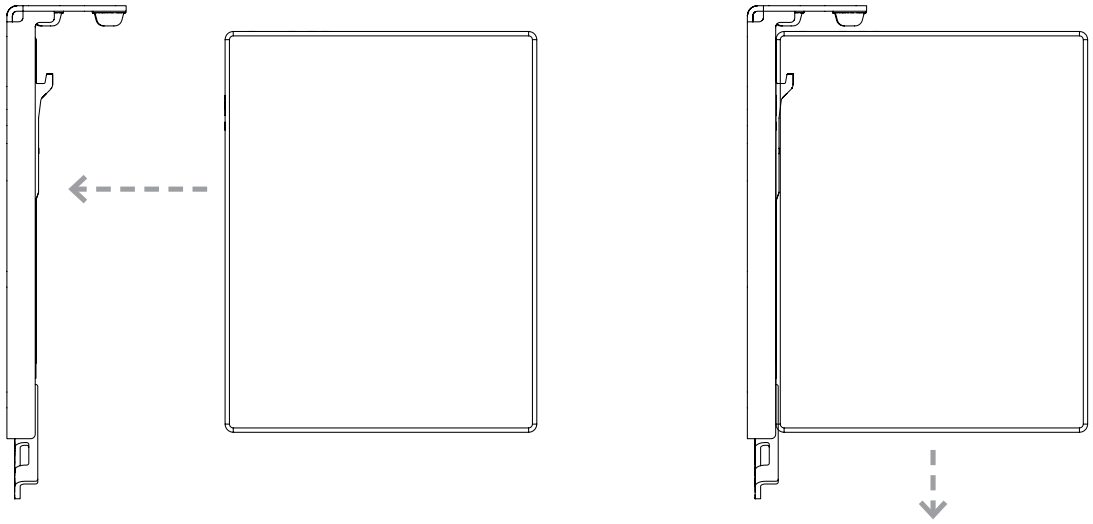
5. Connect the shade and pre-wire connectors, then snap into the terminal block bracket



6. Hang shade onto wall brackets and center in opening.

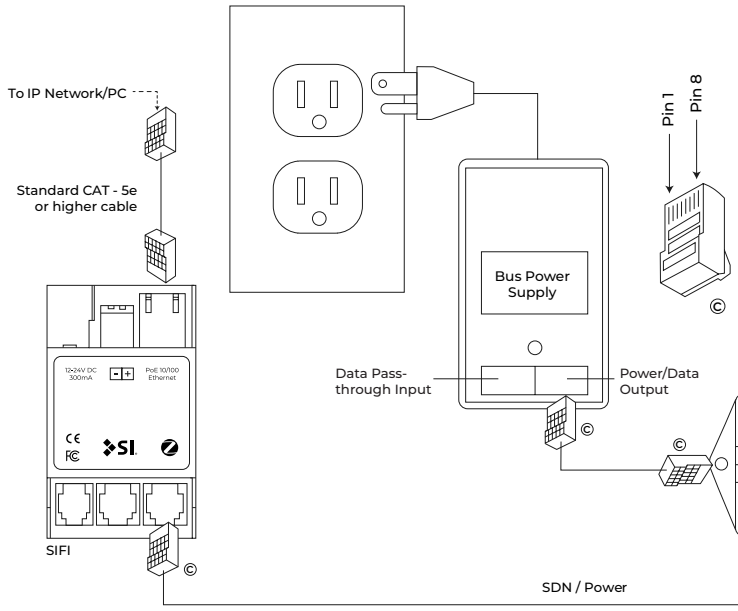


7. Use thumb to lock shade in place

PROGRAMMING - 485

RS485 shades are programmed using the Screen Innovations SIFI via the web interface. This programming can be done with a Windows or Mac computer either over LAN or wired directly to SIFI. The following instructions are for a Windows computer, but the steps for programming on a Mac are very similar. For a complete guide to program SIFI on a Mac, please visit our website. Before attempting to program any motors with SIFI, verify that the firmware is up to date. To adjust the lower limit of an 485 shade, follow the steps below.

Connect SIFI as shown below.



SDN Wiring Pinout		
Utilizing RJ-45 TIA-568B termination standard		
Pin#	Color	Function
1	Orange White	SDN RS485 (+)
2	Orange	SDN RS485 (-)
3	Green White	Reserved
4	Blue	Power 24v DC
5	Blue White	Power 24v DC
6	Green	Reserved
7	Brown White	SDN RS485 Ground
8	Brown	SDN RS485 Ground

1. Launch Windows File Explorer
2. Click on the “Network” tab
3. Double click on the SIFI, the default web browser will launch
4. At the landing page, click the three lines in the top right corner, then click “Settings”
5. Select the “SDN” tab on the top left
6. Press the spyglass to auto discover motors on the 485 network (may have to press it more than once)
7. Click on the motor you want to program
8. Name the motor
9. Right click on the down limit count
10. Move the shade up or down using the buttons in the popup window
11. Click set to confirm the limit
12. Operate the shade up and then back down to verify the position of the limit

TROUBLESHOOTING - 485

Problem	Possible Cause	Action to Take
For 485		
Shade won't operate.	Motor is not powered.	Have an electrician or approved personnel verify 110v AC to the shade.
	Incorrect or poor cable termination.	Check the wire pinouts and termination. Look for broken, loose, or damaged wires. Reterminate if necessary.
	SIFI is not powered.	To verify the si.fi is powered look for a green LED flashing on the board, this light will either be steady on or flashing. If no light is visible make sure power is available via the bus power supply or PoE.
	SIFI is not on the local network.	Use the service keypad (if available) to validate the 485 network and motors are operating properly before troubleshooting SI.FI network problems. Check that the SIFI is communicating on the local network. Ping the device via the windows command prompt, or make sure the device shows up in the network tab of the Windows File Explorer.

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

NODE IDS

Please keep a note of all the Node IDs 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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