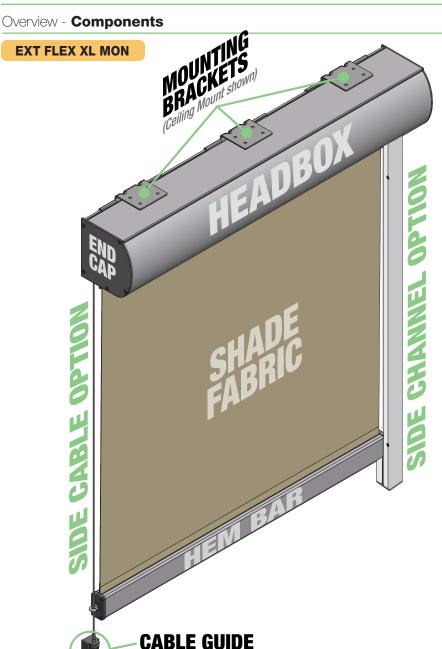
Exterior Motorized FlexShade® XL





Outdoor shading system with smooth, quiet operation and independent control



(Wall Mount shown)



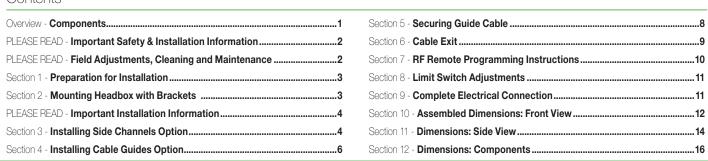
PERSONNEL REQUIRED

△ CAUTION △

Read and understand all warnings

before beginning installation.

Contents



If you have any difficulties installing or servicing your Exterior Motorized FlexShade® XL, call your dealer or Draper, Inc.



PLEASE READ - Important Installation Information

⚠ Caution:

- Inspect all boxes to make sure you have received the proper shades and parts. Controls may be shipped separately, or in same carton as shades.
- Open cartons lengthwise, taking care not to cut into cardboard shipping container.
- Before mounting shades, verify measurements on label provided with shade, and ensure unit is installed at correct width.
- All endcaps, fascia, pocket headbox, and other hardware must be installed level. Shades must be level and square.
- Read the following installation guidelines thoroughly and follow them carefully.
 Failure to do so may cause product to fall or otherwise fail, and invalidates warranty.
- Installer is responsible for selecting mounting hardware appropriate for site conditions.

PLEASE READ - Safety Information

Important Safety Information

△ WARNING △

Important Safety Information

Improper installation and use of the Exterior Motorized FlexShade® XL can result in serious injury or death. Primarily, injuries can occur if the unit falls due to imprecise installation, mishandling of the unit during installation, or installation on an insufficient wall or ceiling structure. Please use extreme care.

- Please read the following installation guidelines thoroughly and follow them carefully. Failure to do so may cause product to fall or otherwise fail, and could result in serious injury.
- 2. Installation and calibration of the unit should only be performed by an authorized, qualified, and experienced professional. In particular, electrical work and wiring [indicated in diagram by dashed lines] must be completed only by a qualified professional electrician who has read this manual completely and is familiar with the construction and operation of this equipment and the hazards involved.
- 3. Do not affix the unit to wall or ceilings that have inadequate strength to permanently hold the unit during use. It is the owner's and installer's responsibility to confirm the wall or ceiling to which the unit attaches is sufficient to permanently hold the weight and stress loads of the unit at all times. Draper®, Inc., is not responsible for improper installation, application, testing, or workmanship related to the product at place of installation.
- It is the installer's responsibility to make sure appropriate fasteners are used for mounting.
- All brackets, fascia, headboxes, pockets, wall clips, and other hardware must be installed level. Unit must be level and square.
- Never leave the area while operating the unit during installation, maintenance, or normal operation, unless it is secure and safe.
- Before testing or operation, carefully inspect the entire area and path of the shade and areas underneath the shade to be sure no persons or objects are in the area.
- 8. Turn off power and any nearby equipment or cables carrying electricity before connecting switches, wires, controls, or electrical components.
- Make sure the limit switches are pointed down or accessible when placing the motor in brackets/endcaps.
- All motors should be tested and limits set using test cord before shades are wired.
- 11. Do not wire motors in parallel without written permission from Draper, Inc.
- 12. During testing or operation, carefully watch the surrounding area for any potential safety concerns including nearby persons or objects.
- 13. Do not use an extension cord. If the power supply cord is too short, have a qualified electrician install an outlet near the drapery operator.

- 14. After installation, the entire system, including all sensors, should be carefully tested to ensure safe and normal operation. Extreme care should be taken during testing to remain clear of moving parts to avoid possible injury.
- 15. Operation of unit should be performed only by authorized and qualified personnel, who have been trained in the safe and effective operation of the unit and understand its safety features.
- 16. The safety features of the unit, including sensors, should never be disabled, bypassed, or overridden. The system should not be operated until all safety features, including the sensors, are properly and completely installed, calibrated, and tested.
- 17. Unit may need to comply with local, state, or district rules and regulations, in particular when installed in schools. All applicable rules and regulations should be reviewed before installation and use.
- 18. Failure to precisely follow installation guidelines invalidates all warranties.
- 19. Custom products/installations may not be reflected in this manual. Call Draper, Inc., if you have questions about the installation of custom products or any questions about your installation.

Before Beginning Installation

- Look for any job site conditions that could interfere with installation or operation of the system.
- 2. Read carefully and be sure to understand all installation instructions and all related operations manuals. These instructions are intended to serve as a guide for the installer and owner. They should be followed closely and combined with the expertise of experienced qualified installers. Draper, Inc., is not responsible for improper installation, application, testing, or workmanship related to the product at place of installation. Please retain all instructions for future use.
- 3. Open cartons lengthwise.
- 4. Locate and lay out all pieces.
- Inspect all boxes to make sure you have received the proper shade and parts. Controls may be shipped separately, or in same carton as shade.
- **6.** If you have any difficulties with installing, servicing, or operating your shade, call your dealer or Draper, Inc., 765-987-7999.

PLEASE READ - Field Adjustments

Each Draper Solar Control Shade is tested to ensure proper operation. Even with this testing, some field adjustments may be needed for telescoping.

If the shade is telescoping, place a piece of shimming fabric into the fabric roll when the shade is deployed on the side that the fabric will be drawn toward. For example: if the fabric is tracking to the left, place the shimming fabric on the right side.

PLEASE READ - Cleaning and Maintenance

Window covering products manufactured by Draper, when properly installed, should require no operational maintenance or lubrication.

Most standard Draper fabrics may be cleaned at the window by vacuuming with a soft brush attachment. They also may be cleaned by using a sponge or soft cloth and mild solution of warm soapy water. A mild dishwashing liquid is recommended. A clean dry cloth is recommended for the metal finish.

Please Note: Exceptions are GreenScreen Evolve®, GreenScreen Revive®, and Phifer® SW7000 fabrics, which must be cleaned with a dry art sponge.

(GreenScreen Revive® and GreenScreen Evolve® are registered trademarks of Mermet® USA. SheerWeave® is a registered trademark of Phifer® Incorporated.)

Section 1 - Preparation for Installation

⚠ Caution: Before mounting shades, verify measurements on carton label provided with shade, and ensure unit is installed at correct width.

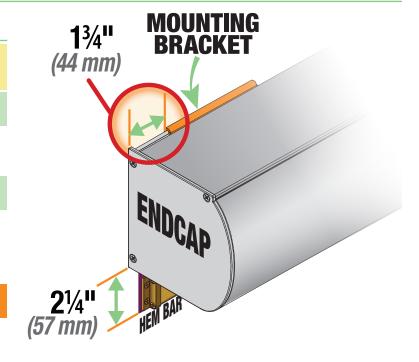
Please Note: Installer is responsible for selecting mounting hardware appropriate for site conditions.

- 1. Ensure mounting surface is strong enough to hold the unit.
- 2. Verify unit measurements and make sure it will fit in the desired location.

Please Note: Hem Bar does **not** retract into the Headbox and must be accounted for if mounting over a swinging window or door.

- Mounting Brackets MUST be installed with a gap of 1¾" (44mm) between the Endcap and the Mounting Bracket edge.
 Mark wall or ceiling. Brackets must be spaced no more than 5' (152cm) apart.
- 4. Drill small starter holes (if necessary) in mounting surface.

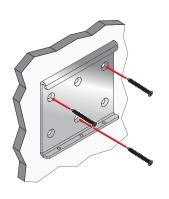
IMPORTANT: Brackets must be installed less than 60" apart.
Installer MUST use all mounting brackets included with shade.



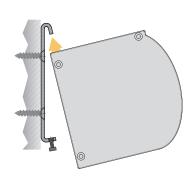
Section 2 - Mounting Headbox

Wall Installation Please Note: Be sure to use AT LEAST two (2) of the top mounting holes.

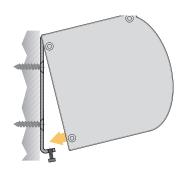
1. Attach Mounting Bracket to wall, with #10 flat head screws installed flush with bracket.



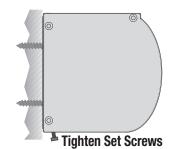
2. Attach Headbox to brackets, inserting top edge first.



3. Rotate Headbox down to engage with bottom of bracket.



4. Tighten Set Screws to snug (using 3mm hex tool)

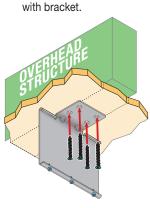


5. Install Side Channels (Section 3) or Cable Guides (Section 4).

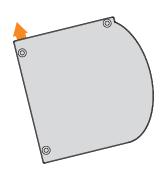
Ceiling Installation

Please Note: Be sure to use ALL FOUR (4) of the mounting holes.

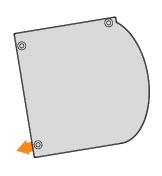
 Attach Mounting Brackets to ceiling, with #10 flat head screws installed flush with bracket



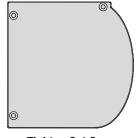
2. Attach Headbox to brackets, inserting top edge first.



3. Rotate Headbox down to engage with bottom of bracket.



4. Tighten Set Screws to snug (using 3mm hex tool)



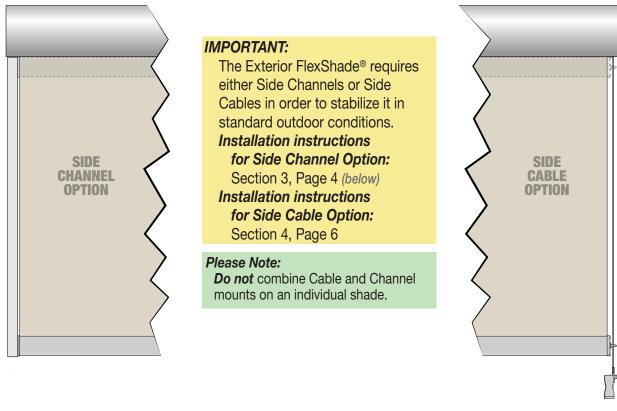
Tighten Set Screws

5. Install Side Channels (Section 3) or Cable Guides (Section 4).

PLEASE READ - Important Installation Information

WARNING: Fastener strength and fastener spacing are crucial for unit to operate correctly and withstand wind load.

Secure Side Channel to structure with appropriate fasteners spaced NO MORE THAN 24" (61cm) apart.



Section 3 - Installing Side Channels Option (Curved Headbox shown)

IMPORTANT: Side Channels must be installed parallel, plumb, and square, with a tolerance of +/- 1/2" (3mm).

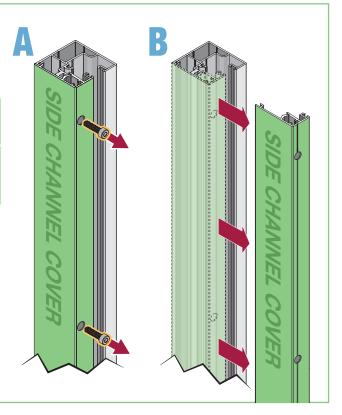
Use 3 mm Hex Wrench to remove Screws from Side Channels and Side Channel Covers.

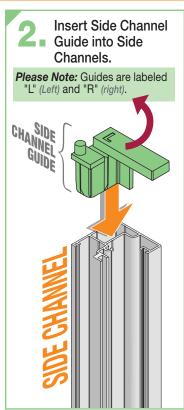
Please Note: Do NOT remove the Bottom Caps from Side Channels.

Please Note: Installer should make note of left & right covers so they match up correctly when re-attaching.

IMPORTANT:

Side Channels must ALWAYS be in contact with mounting surface along entire length of side channel.

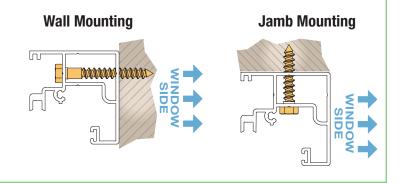


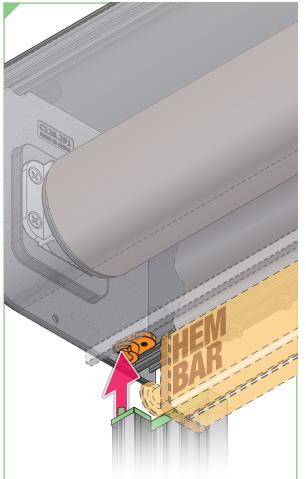


Mark and drill Side Channels at desired mounting points on wall or jamb.

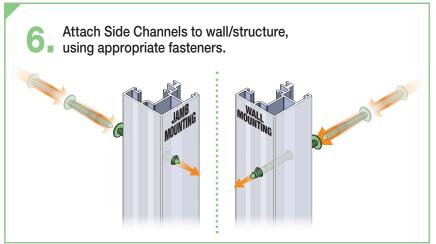
> **⚠** Caution: DO NOT drill through Side Channel Guide!

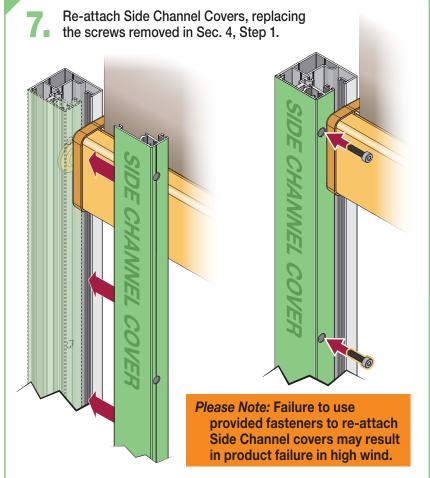
Please Note:
Secure Side Channel to structure with appropriate fasteners spaced NO MORE THAN 24" (61cm) apart.



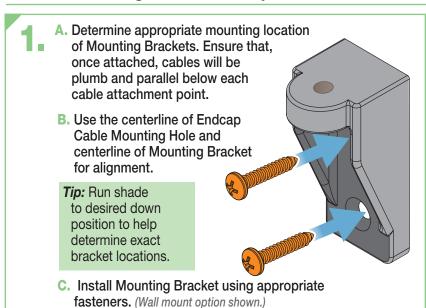


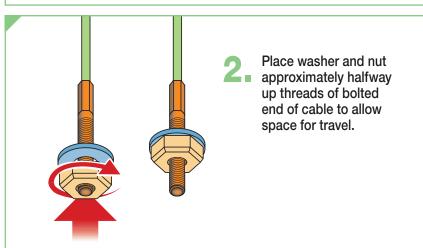
- Engage Side Channel Guide with alignment keyway on the bottom of Endcap.
- Insert Hem Bar into Side Channel, ensuring that side channel remains properly engaged with the Endcap. Repeat for the opposite Side Channel.

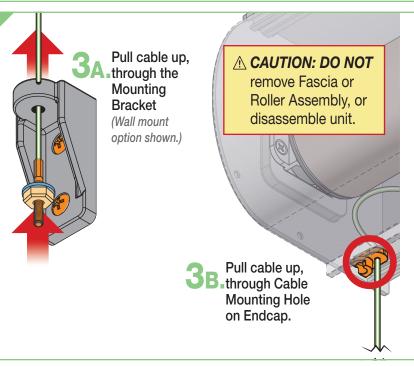


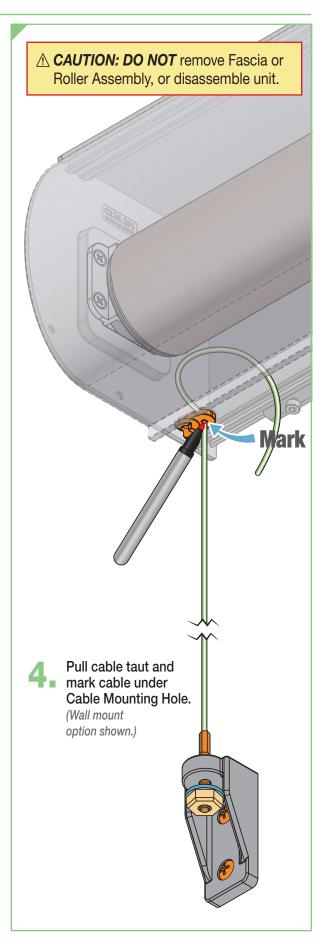


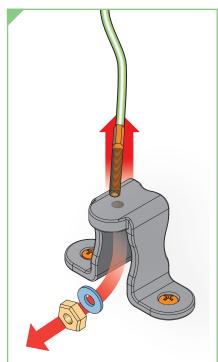
Section 4 - Installing Cable Guides Option



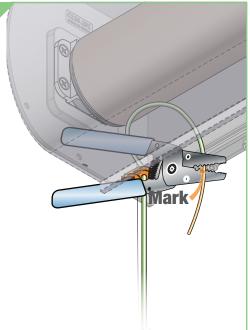




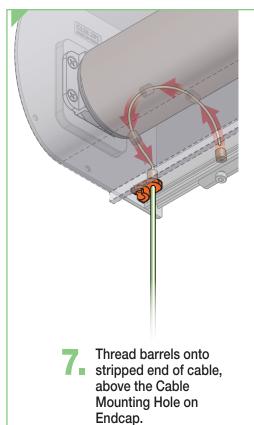




Undo washer and nut, and pull cable up to allow for working clearance when stripping cable at other end. (Deck mount option shown).

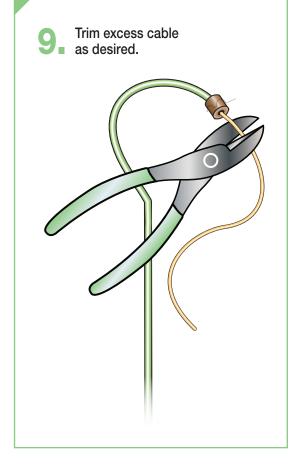


Ensuring that cable stays through endcap mounting hole, pull cable up and out of headbox opening to give working clearance for stripping cable. Strip cable to mark made in Step 4.

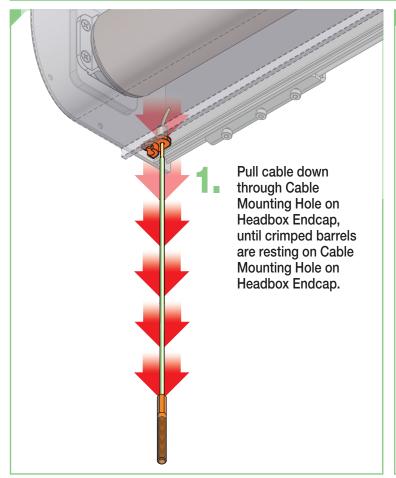


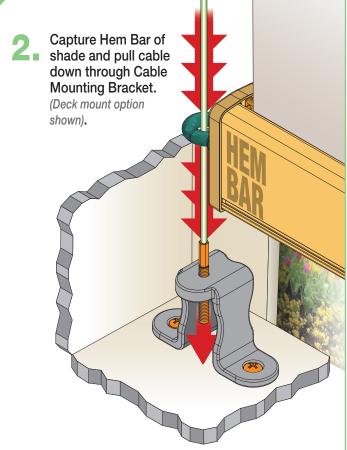
Crimp the barrels approximately ½" (3mm) above mark.

PLEASE NOTE:
Draper® recommends
32-VC:VG Crimper, available from www.nicopress.com



Section 5 - Securing Cable Guide

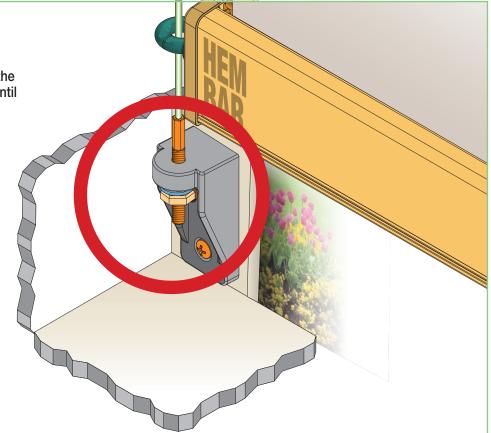




Replace Washer and Nut on the bottom bracket and tighten until desired tension is reached.

(Wall mount option shown.)

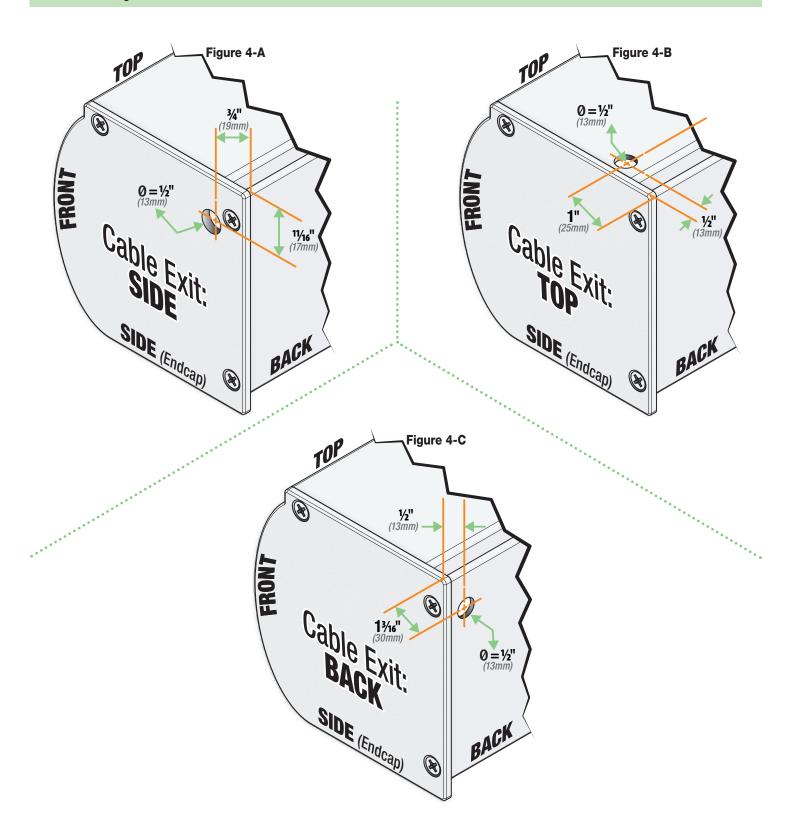
Please Note: Cables should be taut to guide hem bar, but take care not to overtighten Nut.



Section 6 - Cable Exit

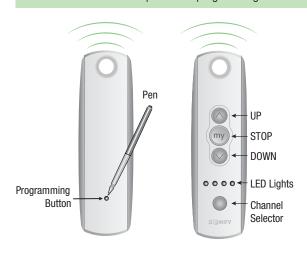
The Exterior Motorized FlexShade® can be ordered with a cable exit pre-drilled in the top or back of the Headbox. If no cable exit is specified, the cable is routed down and out the fabric opening under the motor.

Please Note: Right hand motor is shown.

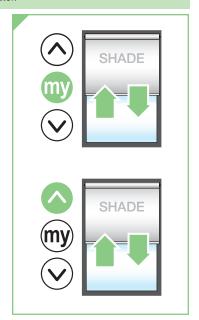


Section 7 - RF Remote Programming Instructions

Please Note: The motor ships with no programming. Follow these instructions to program unit to the desired transmitter.



- Select a transmitter channel to assign motor. Hold UP and DOWN buttons until motor jogs, then release.
- Check motor direction. To reverse motor direction, hold MY/STOP button for 5 seconds until motor jogs. Check direction again.
- 3. Move motor to upper limit position. Hold MY/ STOP and DOWN buttons until motor moves down, then release. Use UP and DOWN buttons to move shade to correct lower limit and press MY/STOP.
- 4. While motor is at lower limit, hold UP and MY/ STOP buttons until motor moves up, then release. The shade should move to upper limit and stop.
- 5. Next, hold MY/STOP button until motor jogs.
- Put motor into USER MODE by holding small programming button on the back of transmitter and waiting for motor to jog.

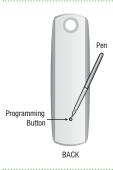






Setting an Intermediate Stop - Shade MUST BE in USER mode.

- Move shade to desired mid-point location and hold MY/STOP button until motor jogs.
- To test, press the MY/STOP button when motor is standing still. The shade will move to that intermediate location.
- To delete an intermediate stop, go to the intermediate stop and hold the MY/STOP button until motor jogs.



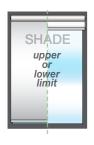
Add a Channel -Shade MUST BE in USER mode.

- Select channel currently operating motor, then hold programming button until motor jogs.
- 2. Select new channel to add to motor, then hold programming button until motor jogs.
- **3.** The motor should now work on both the old and new channel.



Delete a Channel -Shade MUST BE in USER mode.

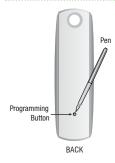
- Select channel operating motor desired, then hold programming button until motor jogs.
- Select channel to remove, then hold programming button until motor jogs. Motor should now only work on channel kept from Step 1.





Adjust Limits in User Mode

- Move motor to limit (upper or lower) to be changed. Shade must move to previously set limit and will stop automatically.
- **2.** Hold UP and DOWN buttons until motor jogs.
- Move motor to its new limit location and hold MY/STOP button until motor jogs.



Reset Motor

- Disconnect for 3 seconds, reconnect for 10 seconds, disconnect for 3 seconds. Shade will roll.
- **2.** Hold program button on remote and wait for 2 separate jogs.

Motor is now reset.

Section 8 - Limit Switch Adjustments

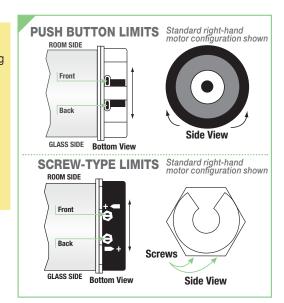
Standard and Quiet Motors

Push Button Limits

- Fully depress both limit switch push buttons, then operate wall switch to make sure system works properly.
- 2. Raise shade to desired "UP" stop position.
- **3.** Set upper limit by depressing proper (back) push button.
- 4. Lower shade to desired "DOWN" stop position.
- Set lower limit by depressing proper (front) push button.

△ Caution:

- Be sure all switches are in "off" position before adjusting limit switches.
- Shade may be damaged by running shade fabric up too far and exposing roller.
- If using a group control system, each limit switch must be set prior to connecting to system.
- Motor must be installed so limit switches are pointed up or accessible.



Screw-Type Limits

- **1.** Determine which direction of fabric travel corresponds with arrows on motor.
- Operate shade to desired "down" stop position.
 Set limit by turning proper socket toward "+" to lower limit, and "-" to raise it.
- Operate shade to desired "up" stopping position.
 Set limit by turning proper screw toward "-" to raise limit, and "+" to lower it.

Please Note: Each full rotation of the limit screw equals approximately %" (16mm) of shade travel, which may require rotating the limit screw several times.

△ Caution: DO NOT allow the hem bar to hit the upper roller or fascia. This will damage the unit.

Section 9 - Complete Electrical Connection

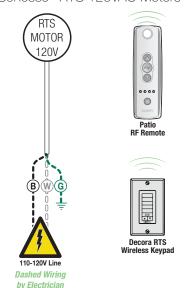
Operates on 110-120V, 60 Hz. current. Shade is shipped with internal wiring complete and control switch(es) fully boxed, and supplied with a 6' (183cm) cable lead (standard). Longer lead can be substituted by removing two screws in motor end of roller, removing lead, plugging new lead in, and replacing screws. Wire to connect shade to switch(es) and switch(es) to power supply should be furnished by installer. Connections should be made in accordance with attached wiring diagram, and wiring should comply with national and local electrical codes.

DO NOT wire motors in parallel without written permission from Draper.

All operating switches should be "off" before power is connected.

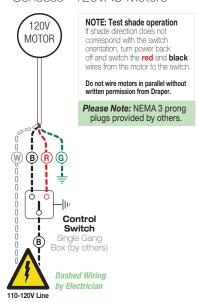
Controls & System Overview

Sonesse® RTS 120VAC Motors



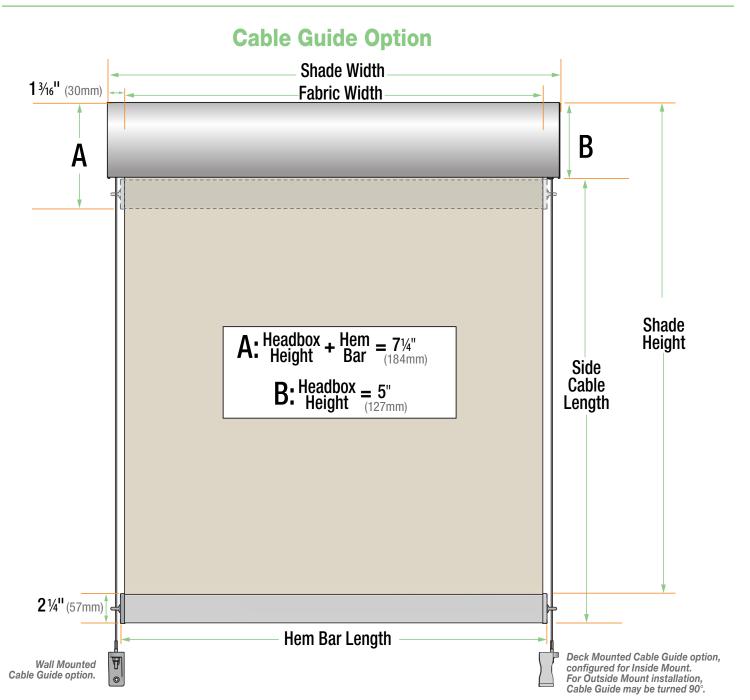
Controls & System Overview

Sonesse® 120VAC Motors



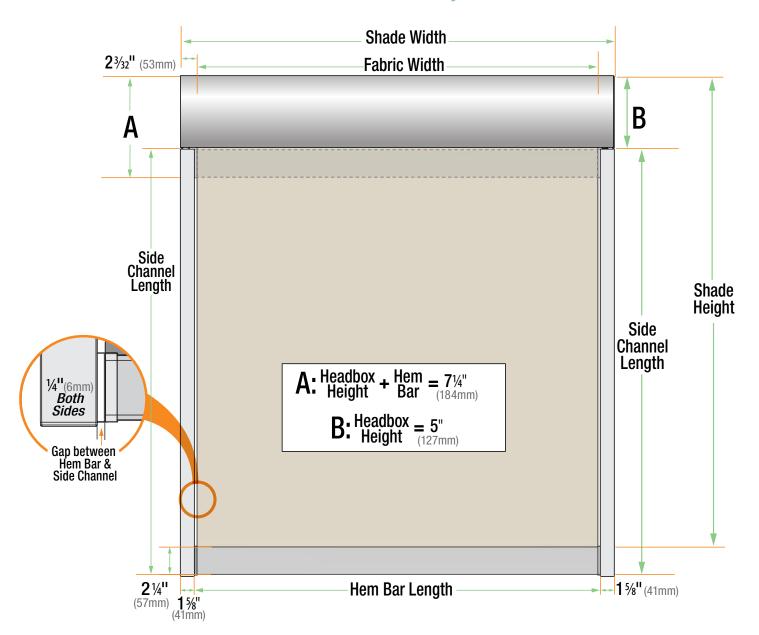
Sonesse® is a registered trademark of Somfy® Systems, Inc.

Section 10 - Assembled Dimensions: Front View



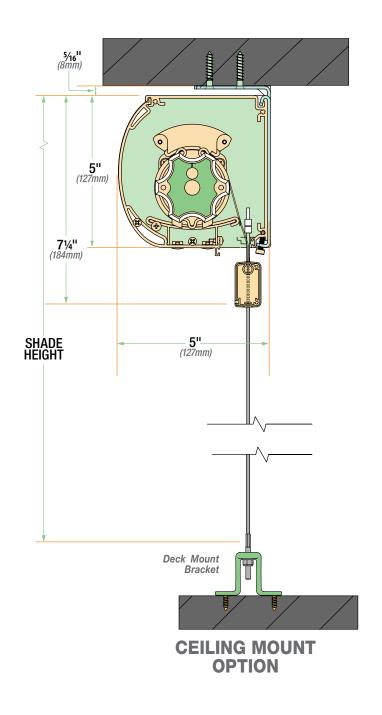
IMPORTANT: Side Channels must be installed parallel, plumb, and square, with a tolerance of +/- 1/2 (3mm).

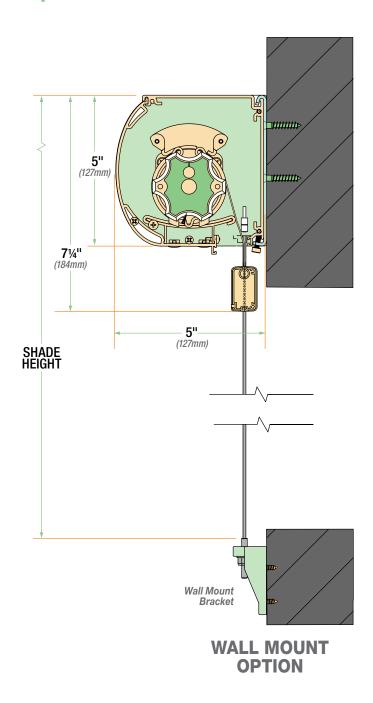
Side Channel Option



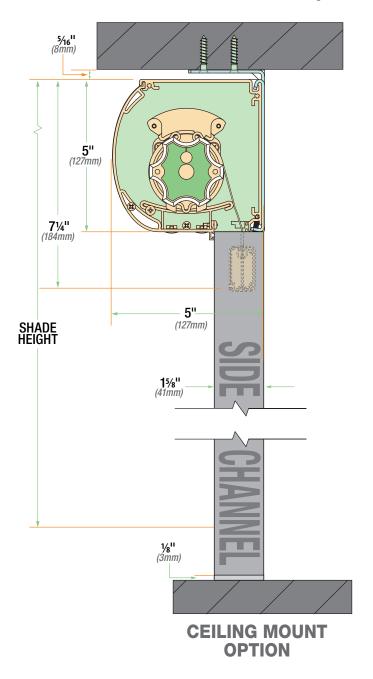
Section 11 - Dimensions: Side View

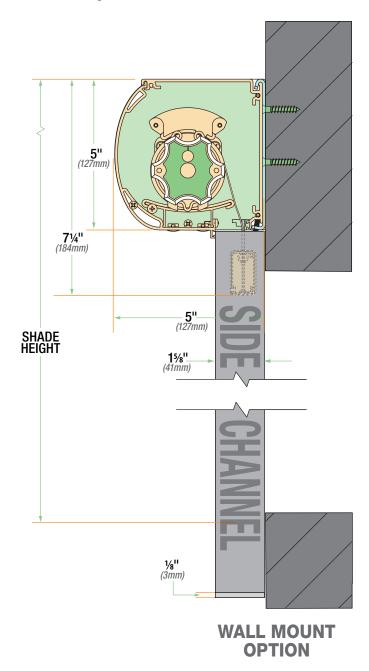
Cable Guide Option



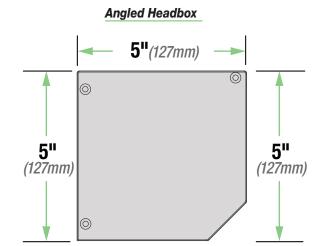


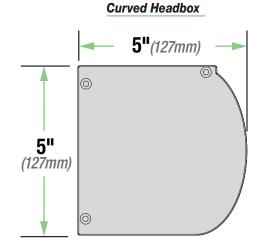
Side Channel OptionSee Section 3 on Page 4 for Side Channel mounting instructions.



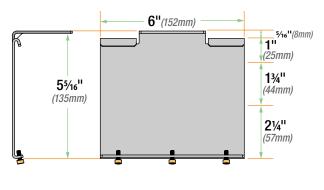


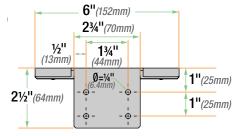
Section 12 - Dimensions: Components



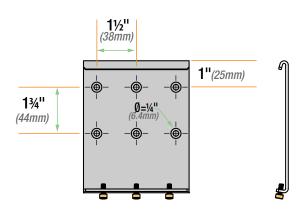


Ceiling Mounting Bracket

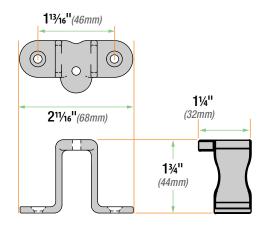




Wall Mounting Bracket



Cable Guide - Deck Mount



Cable Guide - Wall Mount

