

Installation Instructions

Access Dual Roller FlexShade System by Draper

US Patent Nos. 6,137,629;
6,421,175; 6,532,109;
6,816,308; 7,559,707

Caution

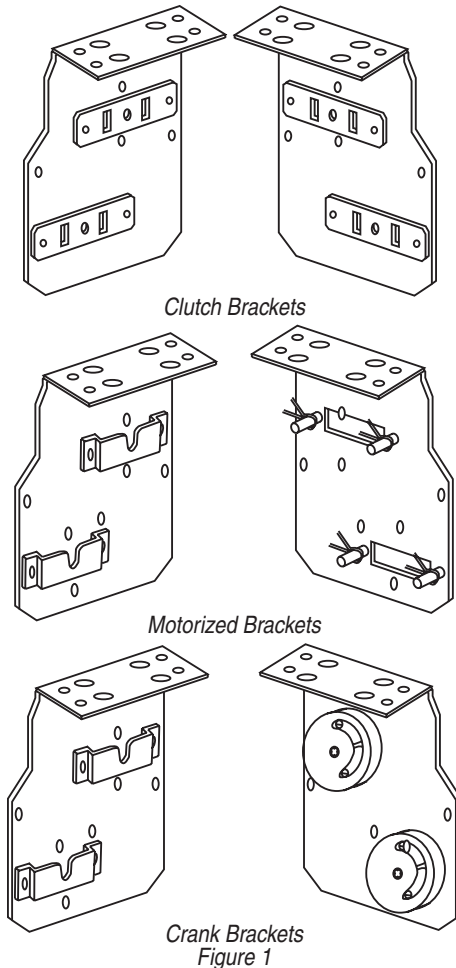
- ① The Access Dual Roller FlexShade headbox is shipped in one carton; the shades and/or screen are shipped in a separate carton; controls may also be shipped in a separate carton.
- ② Verify dimensions of opening and refer to order for overall dimensions of the unit. Dimensions are noted on the outside of the carton. Shade dimensions are given width x height; screen dimensions are given height x width.
- ③ If installing bead chain clutch shades, shades are to be installed in areas accessible to young children, be certain to use cord tension device and heed warning at right.
- ④ Installer must ensure Access Dual Roller FlexShade is positively and securely anchored with appropriate fasteners for mounting surface.
- ⑤ Hanger brackets are shipped separately.
- ⑥ For motorized units, make sure POWER IS OFF before making electrical connections. Use extreme caution when working with electric motors.
- ⑦ Do not wire motors in parallel without written permission from Draper.
- ⑧ **Please 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.**

Please Note: Custom products/installations may not be reflected by this document. Call Draper, Inc. if you have questions about your installation.

Please follow installation guidelines carefully. Failure to do so invalidates warranty.

Headbox Assembly

- ① Make sure internal roller brackets provided are for correct operator ordered. (See Fig. 1).



- ② If not already attached, then install roller brackets (See Fig. 2). Install by placing the brackets in the headbox at an angle, then twisting the brackets into place (following the natural angle of the bracket). Lock in place with setscrews.

DRAPER®

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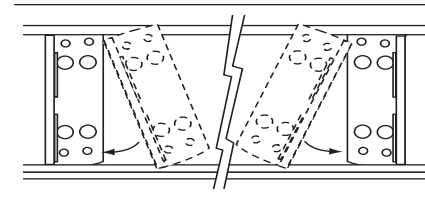
Printed in U.S.A.

⚠ Warning For the Safety of Young Children



Young children can **STRANGLE** in cord and bead chain loops. They can also wrap cords around their necks and **STRANGLE**.

- Always keep cords and bead chains out of children's reach.
- Move cribs, playpens, and other furniture away from cords and bead chains. Children can climb furniture to get to cords.
- Attach tension device to wall or floor. This can prevent children from pulling cords and bead chains around their necks. Fasteners provided with the tension device may not be appropriate for all mounting surfaces. Use appropriate anchors for the mounting surface conditions (see instructions on page 3).



**Front of headbox
(View from below)**

Figure 2

- ③ Install bottom closure end brackets for appropriate operator (See Fig. 3).

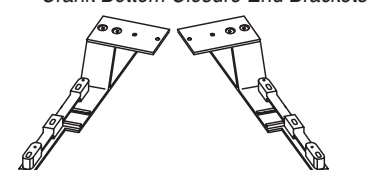
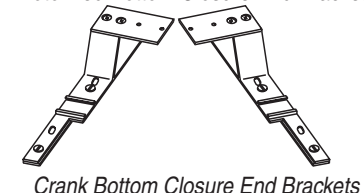
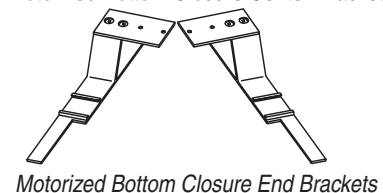
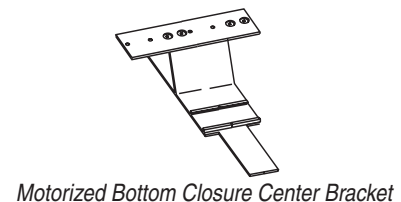
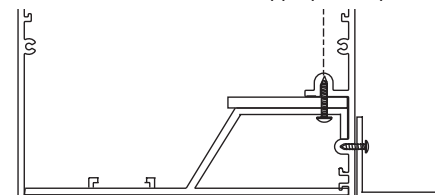


Figure 3

Continued

If you encounter any difficulties installing or servicing your Access Dual Roller FlexShade System, call your dealer or Draper, Inc., Spiceland, Ind., (765) 987-7999 or fax (765) 987-7142.

Headbox Installation

Suspended Installation—

- ① Slide brackets into place in the grooves provided (see Fig. 4).
- ② Locate bracket as required for threaded rod, chain, or cable, and tighten set screws to hold bracket in place.

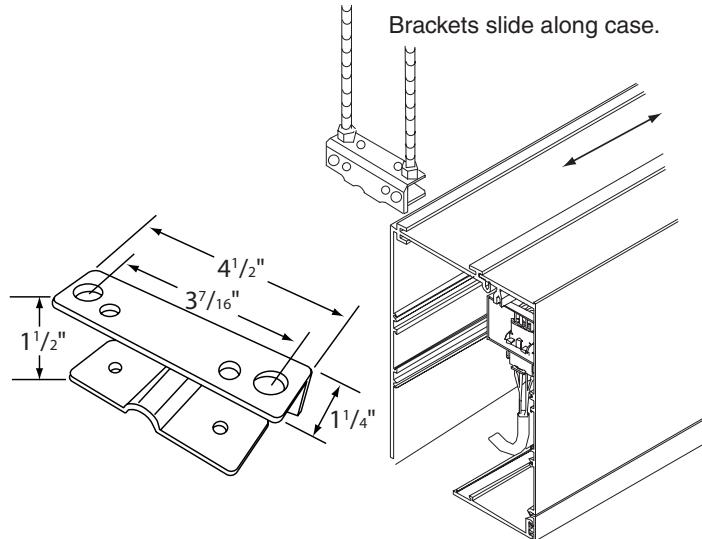


Figure 4

Ceiling (Surface) Installation—

- ① Drill holes through the top of the rear housing as required (see Fig. 5).
- ② Position housing against ceiling and transfer mounting hole locations.
- ③ Install appropriate anchors.
- ④ Mount housing to ceiling.

Wall (Surface) Installation—

- ① Drill holes through the back of the rear housing as required.
- ② Position housing against wall and transfer mounting hole locations.
- ③ Install appropriate anchors, and mount housing to wall (see Fig. 5).

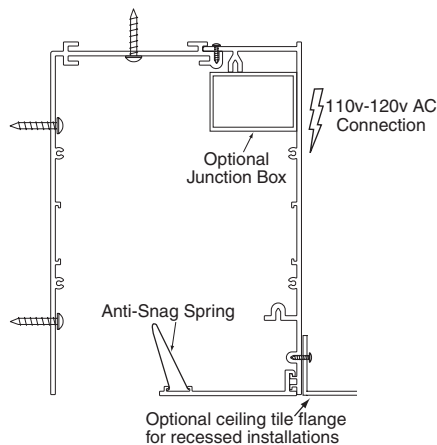


Figure 5

NOTE: It is the responsibility of the installer to ensure mounting hardware is adequate to support the Access Dual Roller System.

Shade/Screen Assembly

Note: Roller mounting brackets are factory installed in the housing.

For Bead Chain Clutch Operators:

- ① Insert spring-loaded pin of upper roller into pin-end bracket. Supporting pin-end bracket with your free hand, push roller/fabric assembly toward bracket to compress spring-loaded pin, and slip the clutch end tabs into slots on bracket (see Fig. 6).

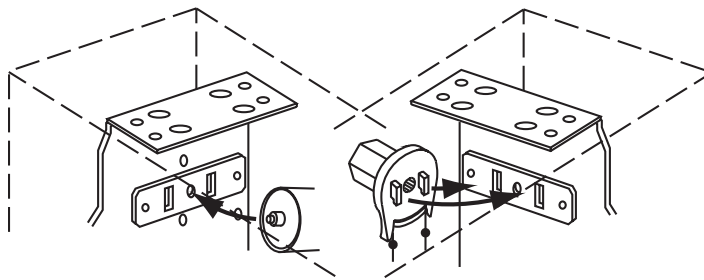


Figure 6

- ② If you have not already done so, install the L.H. and R.H. bottom closure end brackets with chain exit guides. Thread the bead chain for the upper roller through the rear and center holes of the chain guide. Operate roller up and down and install the stop balls as required.
 - ③ Install the lower roller in the same manner, and thread the bead chain through the front and center holes of the chain guide.
 - ④ To cover multiple openings, a single headbox may be separated into compartments. Repeat steps one and two for each compartment.
- Note: Remove protective strips from rollers before operating.**

For Motorized Operators:

- ① Place operator end of upper roller onto its bracket, then slide notched pin on other end into slot on bracket. Secure operator end with retainer pins, and secure pin end with retainer clip (see Fig. 7).

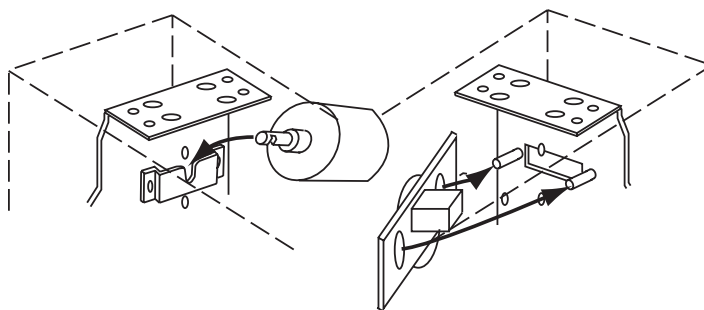


Figure 7

- ② Install the lower roller in the same manner.
 - ③ To cover multiple openings, a single headbox may be separated into compartments. Repeat steps one and two for each compartment.
 - ④ See "Electrical Connections".
- Note: Remove protective strips from rollers before operating.**

For Crank Operators:

- ① Place operator end of upper roller onto its bracket, then slide notched pin on other end into slot on bracket. Secure with retainer clip (see Fig. 8).

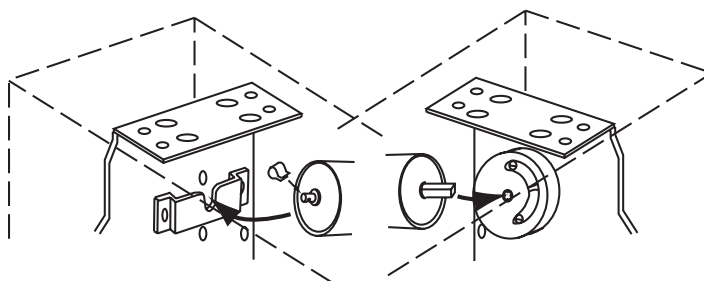


Figure 8

- ② Install the lower roller in the same manner.
- ③ To cover multiple openings, a single headbox may be separated into compartments. Repeat steps one and two for each compartment.

- ④ Insert crank shaft through the L.H. and/or R.H. bottom closure end brackets and into crank gear, then attach cranks to end brackets (see Fig. 9).

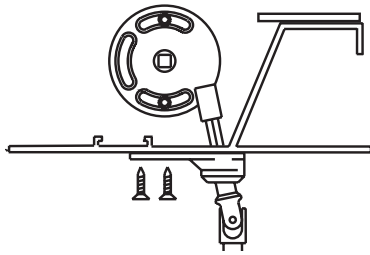


Figure 9

Coupled/Side-to-Side Mount

NOTE: For coupled units, see separate instructions for Access Dual Roller Coupled FlexShade.

Electrical Connections

Motorized units operate on 110v., 60 Hz. current.

Shades and screens are standardly shipped with internal wiring complete and control switch(es) fully boxed. 6' lead standardly provided, or shades and screens can plug into optional junction box(es) located inside headbox. Wiring to controls and electrical must then be completed from the 6' lead or optional junction box.

Connections should be made in accordance with attached wiring diagram on page 4, and wiring should comply with national and local electrical codes.

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

Please Note: For low voltage wiring requirements, Draper recommends consulting with a professional low voltage electrical contractor. It is very important that shielded and stranded CAT 5 cable be used to prevent any electrical interference.

P Clip Cord Tension Device

- ① Draper Bead Chain Clutch Operated shades that do not comply with WMCA/ANSI Standard A100.1-2012 are shipped with an unattached cord tension device (see Fig. 10). To use this P Clip, thread bead chain through the clip, then attach to wall, jamb or sill so that the bead chain is held taut enough that children cannot pull it away from the wall or fit their head into the loop. **See safety note on page 1.**

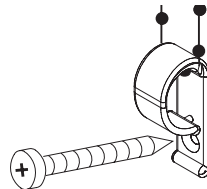


Figure 10

Spring-Loaded Cord Tension Device

If your Draper Clutch FlexShade complies with WMCA/ANSI Standard A100.1-2012, a Spring-Loaded Cord tension device comes installed on bead chain (see Fig. 11). An approved permanent warning label is attached, and approved mechanical fasteners (wood screws) are included. Install cord tension device to wall, jamb or sill. To install, pull tensioner down so that the bead chain is held taut and use the mounting hardware to keep it taut. The bead chain should be taut enough so it will move smoothly through the device. If there is not enough tension, the device will not allow the bead chain to pass through and operate the shade. This device is designed so that children cannot pull the bead chain away from the wall or fit their head into the loop. **See safety note on page 1. The installer is responsible for selecting mounting hardware appropriate for site conditions.** For more information, visit:

<http://www.draperinc.com/WindowShades/WCMAcompliance.asp>.

Attaching to Wood or Metal

- ① For attaching to wood, two #8-18 x 1.5" Zinc HWH TEK Type AB wood screws are provided. For attaching to metal, choose fasteners with a minimum fastener manufacturer-rated or tested release force of 20 lb (89 N), and make sure they are long enough for the threads to catch and hold.
- ② Mark mounting hole locations with a pencil.
- ③ Drill pilot holes smaller than the screw size.

- ④ Pass screws through the Spring Loaded Tension Device. Turn the screws into the pilot hole, starting by hand.

Please Note: Tighten screws so that the Spring Loaded Tension Device maintains enough tension on the bead chain for shade to operate without working loose, but not tight enough that the Spring Loaded Tension Device is damaged by overtightened screws.

Installation through Drywall

- ① Make sure that screws are long enough for the threads to catch and hold joist or stud.
- ② Locate the stud and mark it with a pencil.
- ③ Mark mounting hole locations.

Please note: If you are unable to mount on a stud, use Molly Bolts or Toggle Bolts. The fasteners shall have a minimum fastener manufacturer-rated or tested release force of 20 lb (89 N).

- ④ Drill shallow pilot holes smaller than the screw size.

- ⑤ Pass screws through the Spring Loaded Tension Device. Turn the screws into the pilot hole, starting by hand. The fasteners shall have a minimum fastener manufacturer-rated or tested release force of 20 lb (89 N).

Please Note: Tighten screws so that the Spring Loaded Tension Device maintains enough tension on the bead chain for shade to operate without working loose, but not tight enough that the Spring Loaded Tension Device is damaged by overtightened screws.

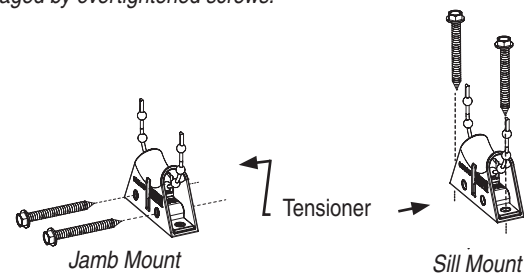


Figure 11

Optional Side/Sill Channel Installation

- ① If provided, install side channels so that channel tops are 2" inside headbox, and flush with the ends of the headbox.
- A. Insert fabric guides in top of side channels (see Fig. 12).

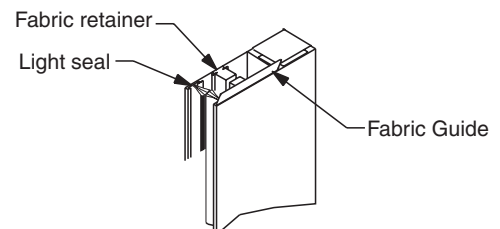
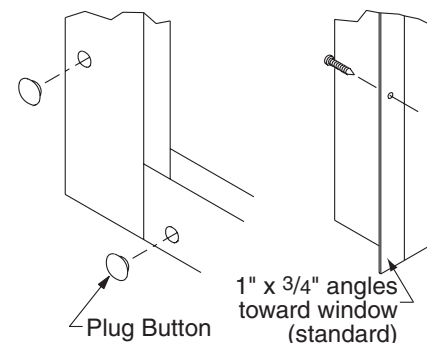


Figure 12

- B. For face mount, side channel mounts on the surface of the wall or window mullion. Fasteners go through the side channels. Plug buttons should be used to cover holes (access and mounting holes will be pre-drilled— see Fig. 13).
- C. For inside or jamb mount, a mounting angle has been attached to the side channels. Install side channel with mounting angle toward window, if depth will allow, so it is not visible (it can also be installed toward the room—see Fig. 13). Caulking may be necessary for complete blackout.

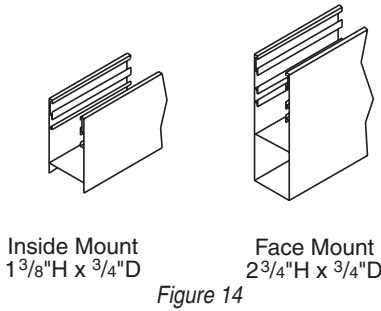


Face Mount

Jamb Mount

Figure 13

- ② Install sill channel between side channels using appropriate fasteners (see Fig. 14). **NOTE:** Be sure of a centered and snug fit between side channels.



Push Button Limits

- ① 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 and releasing the proper (back) push button.
- ④ Lower shade to desired "down" stop position.
- ⑤ Set lower limit by depressing and releasing the proper (front) push button.

Screw-Type Limits

- ① Determine which direction of fabric travel corresponds with arrows on motor.
- ② Operate shade to desired "down" stop position. Set limit by turning the proper socket toward the "+" to lower the limit, and "-" to raise it.
- ③ Operate shade to desired "up" stopping position. Set limit by turning the proper screw toward the "-" to raise the limit, and "+" to lower it.

Limit Switch Adjustments—RTS Motors

For instructions of setting limits on these motors, consult Draper's Motorized Shade Handbook, available in the motorized shades section of www.draperinc.com.

Limit Adjustments (ILT Motors)

- ① Connect the ILT switch to the motor via the terminal blocks, or via the modular port using four conductor modular cable. When using modular cable, the cable connectors MUST NOT be crimped in reverse, as with standard telephone cable.
- ② Set the slide switch to the lower position. Press and hold the DOWN button on the switch to move the viewing surface to the desired lower limit. If the shade moves in the opposite direction, release the DOWN button and press and hold down the STOP button for four seconds. This will reverse the operation of the UP and DOWN switches.
- ③ Move slider switch into center position. Wait a couple of seconds.

Please Note: If you move the slider switch from down to up in one motion it sets the two limits in the same position.

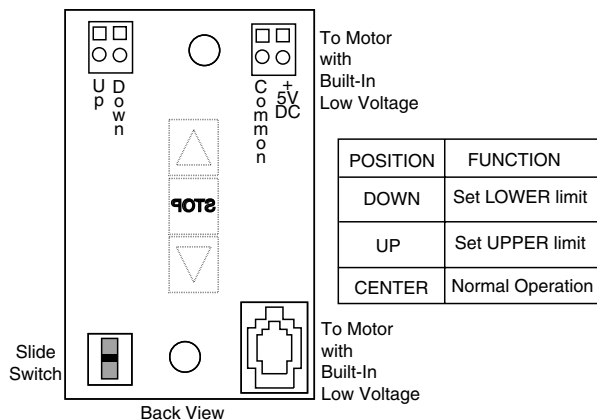
- ④ Set the slide switch to the higher position. Move the shade to the desired upper limit by pressing and holding the UP button on the wall switch.
- ⑤ Return the slide switch to the center position to return to normal operation.
- ⑥ To set the shade to an intermediate position, move the shade to the desired position and press the STOP button. Press and hold the STOP button for at least three seconds to record the position.

Please Note: Pressing and releasing the UP button on the switch will move the shade to its upper limit. Pressing and releasing the DOWN button will move the shade to its lower limit.

While the motor is in motion, pressing the STOP button for less than two seconds will stop the shade at its present position.

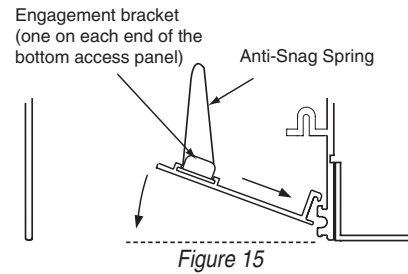
Once the motor is stopped, pressing the STOP button will move the shade to its intermediate position.

Pressing and holding the STOP button, when the motor is at rest or in motion, for at least three seconds will record a new position.



Bottom Closure Installation

- ① Insert anti-slag springs (see also Fig. 5, page 2) into extrusion closest to edge of bottom closure panel.
- ② Insert retainer springs into same extrusion, on each end.
- ③ Install bottom closure panel (see Fig. 15)

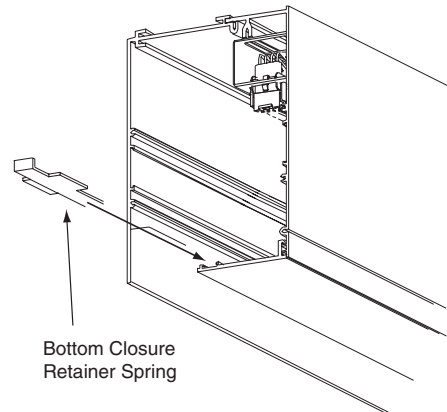


Cleaning and Maintenance

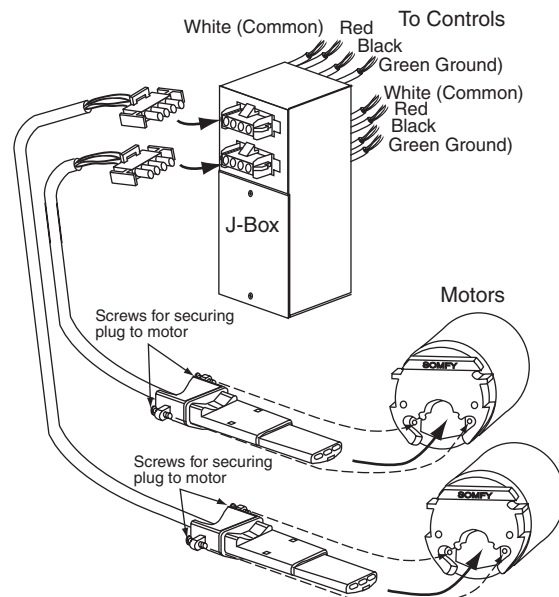
Idlers on motorized shades may occasionally need lubrication. If lubrication is required, apply a small amount of a lithium based grease direct to the idler pin.

Most of Draper's standard fabrics may be cleaned at the window by vacuuming with a soft brush attachment. They may also be cleaned by using a sponge or soft cloth and mild solution of warm soapy water. A dishwashing liquid, such as Ivory liquid, is recommended. A clean dry cloth is recommended for the metal finish. **Exceptions are Flocké, Roc-Rol and Phifer SW7000 fabrics, which must be cleaned with a dry art sponge.**

- ④ Slide retainer springs into slots on L.H. and R.H. bottom closure end brackets (Fig. 16).

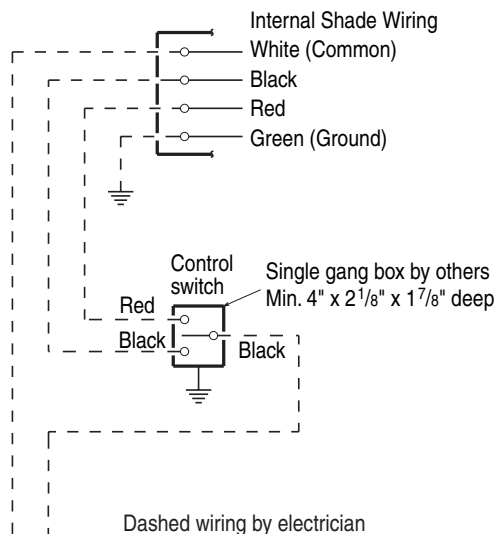


Optional J-Box



110-120V Standard and Quiet Shade Wiring Diagram

This diagram is for standard switching for one roller in the Access Dual Roller FlexShade. Because each roller is isolated on its own contacts, this diagram will need to be followed both both rollers. For low voltage, remote, or group control, consult wiring diagrams provided with control.

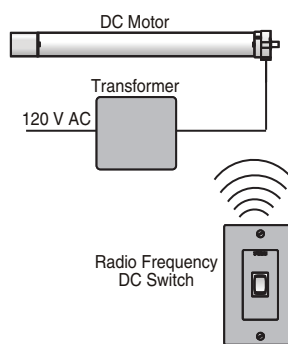


To 110-120V Line

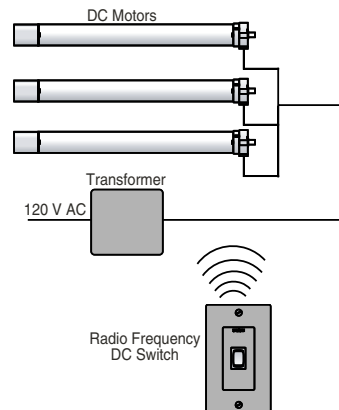
NOTE: Test shade operation. If shade direction does not correspond with the switch orientation, turn power back off and switch the red and black wires from the motor to the switch.

24V DC Quiet Shade Wiring Diagram

Single Shade

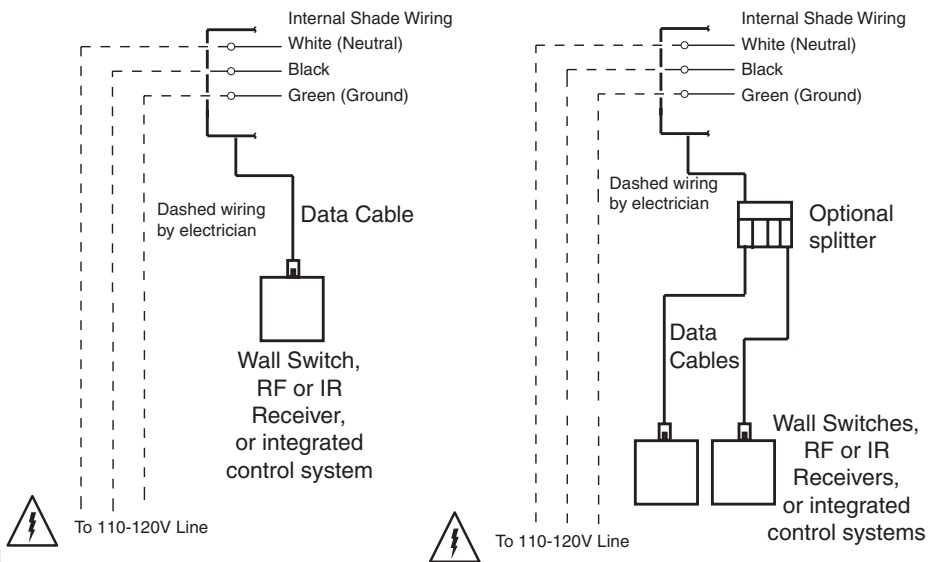


Multiple Shades

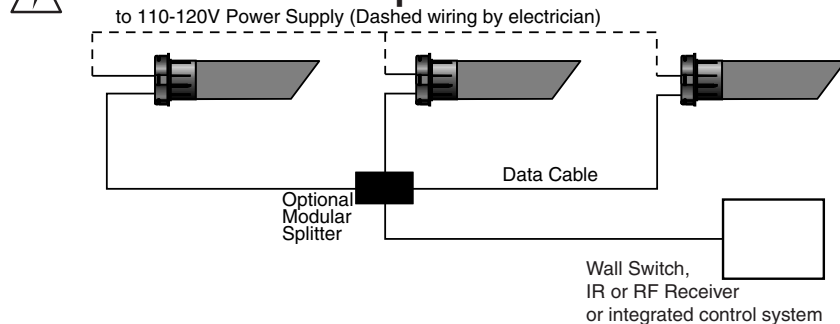


110-120V ILT Standard and Quiet Shade Wiring Diagrams

Single Low Voltage Control Multiple Low Voltage Controls



Multiple ILT Motors



Radio Technology 110-120V Motors

