

Installation Instructions

FlexShade 2 by Draper

⚠ Caution

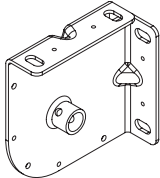
- ① Inspect all boxes to make sure you have received the proper shades and parts. Controls may be shipped separately, or in same carton as shades.
- ② Open cartons lengthwise.
- ③ All brackets, fascia, headboxes, pockets, wall clips and other hardware must be installed level. Shades must be level and square.
- ④ Before connecting switches, controls, or electrical, make sure power is off. Wiring indicated in diagram by dashed lines *must be completed by an electrician*. Do not wire motors in parallel.
- ⑤ Installation of this product requires two people.
- ⑥ It is the installer's responsibility to make sure appropriate fasteners are used for mounting surface.
- ⑦ Please follow installation guidelines carefully. Failure to do so invalidates warranty.

Mounting Brackets and Endcaps

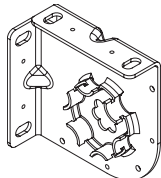
- ① Mark wall, jamb or ceiling for placement of mounting brackets or endcaps.
- ② Drill small starter hole in mounting surface (if necessary).
- ③ Mount brackets using appropriate fasteners for surface (see Fig. 1 for bracket and endcap types). Centers of mounting holes are approximately $\frac{13}{16}$ " in from outer edge of endcap/bracket.

Please Note: It is the responsibility of the installer to ensure the mounting surface and mounting hardware are of appropriate type and strength.

Mounting Brackets

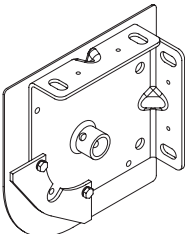


Pin End (Left Standard)

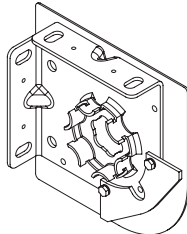


Motor End (Right Standard)

Endcaps for Headbox or Fascia



Pin End (Left Standard)



Motor End (Right Standard)

Figure 1

Shade Installation

Please Note: Installation of Shade Assembly requires two people.

- ① Remove screw from the motor retainer ring.
- ② Install the motor retainer ring into the groove in the motor end bracket (see Fig. 2). Do not re-install the screw yet.

⚠ Caution: Be sure motor is fully re-seated in the bracket, and re-secured carefully with the motor retaining spring.

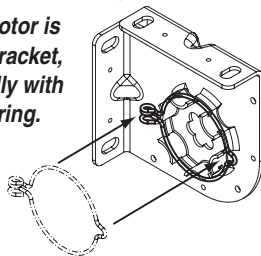


Figure 2

- ③ Using the included wrench, rotate the roller assembly idler pin so that the $\frac{1}{4}$ " hole in the shaft is aligned with the $\frac{1}{4}$ " hole in the idler end bracket (see Fig. 3).
- ④ Place spring-loaded idler pin into the idler end bracket.
- ⑤ Push the assembly toward the idler end to depress the spring-loaded idler, then insert the motor end of the roller assembly into the motor end bracket (see Fig. 3).

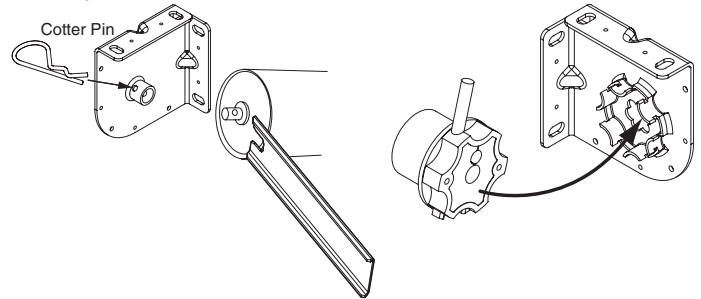


Figure 3

⚠ Caution: The cotter pin must be correctly installed to insure safe operation of the shade. If misalignment of the holes in the idler shaft and bracket prevent the cotter pin from being installed, then the roller assembly must be completely removed and re-installed.

- ⑥ Ensure that the motor retainer ring is properly installed around the grooves in the motor and the motor end bracket.
- ⑦ Install the motor retainer ring screw and tighten.

Please note: Maximum torque for tightening screw is 5 lb-inches.

- ⑧ Insert the cotter pin through the idler end bracket and shaft (see Fig. 3).
- ⑨ Use the cable strap with self-adhesive attachment pads to secure the motor cable to the endcap (see Fig. 4). This will prevent possible damage to the cable by the roller during shade operation.

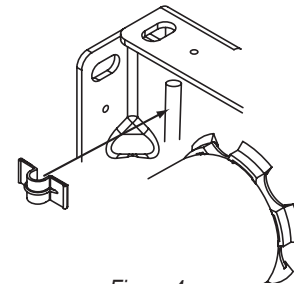


Figure 4

- ⑩ Run electrical wiring (see "Electrical Connections," page 2), and set limits (see "Adjustments," page 2).

Headbox

- ① Remove headbox cover (see Fig. 5).

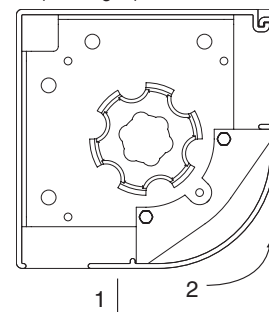


Figure 5

- ② Remove shade and roller from headbox/endcaps by reversing steps in the "Shade Installation" section.
- ③ Mount headbox and endcaps in desired location.
- ④ Re-install shade roller (see "Shade Installation" section).
- ⑤ Run electrical wiring (see "Electrical Connections," page 2).
- ⑥ Set limits (see "Adjustments," page 2).
- ⑦ Re-install headbox cover.

If you encounter any difficulties installing or servicing your FlexShade 2, call your dealer or Draper, Inc., Spiceland, Ind., (765) 987-7999, or fax (765) 987-7142.

DRAPER®

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Fascia

- ① Mount endcaps and follow steps outlined in "Shade Installation" section to assemble shade.
- ② Run electrical wiring (see "Electrical Connections").
- ③ Set limits (see "Adjustments").
- ④ Install fascia (see Fig. 6).

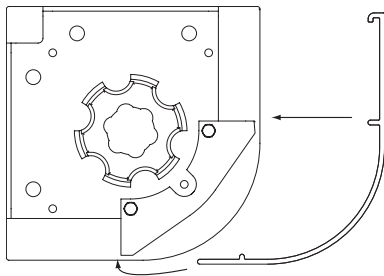


Figure 6

Adjustments

Your shade motor will feature either push-button or setscrew limit switches. Use appropriate steps below for your type of motor. At no time should viewing surface be unrolled enough to expose any part of shade roller.

These instructions are for right-hand motor, fabric from rear of roller.

For left-hand motor, fabric from rear of roller, directions noted below should be reversed.

Push-Button Limit Switches:

- 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 (See Fig. 7).
- ④ Lower shade to desired "down" stop position.
- ⑤ Set lower limit by depressing and releasing the proper (front) push button (see Fig. 7).

NOTE: Each shade's limits must be set if using group control.

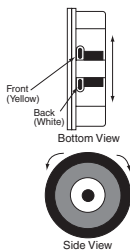


Figure 7

Setscrew/Socket Limit Switches:

Adjusting Back (White) Socket—White socket is located on the motor end of roller (see Fig. 8) and is accessible to a small flat screwdriver or 5/32" hex key. Turning the socket counterclockwise will allow the roller to run farther up or down (as appropriate). Turning it clockwise will shorten operation, causing it to stop sooner. A full revolution of the socket will alter the stopping position of the shade by approximately 1 1/4".

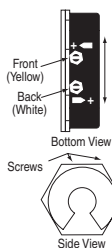


Figure 8

Adjusting Front (Yellow) Socket—Yellow socket is located on the motor end of roller (see Fig. 8) and is accessible to a small flat screwdriver. Turning the socket counterclockwise will allow the roller to run farther up or down (as appropriate). Turning it clockwise will shorten operation, causing it to stop sooner. A full revolution of the socket will alter the stopping position of the shade by approximately 1 1/4".

Please Note: Each shade's limits must be set if using group control.

Electrical Connections

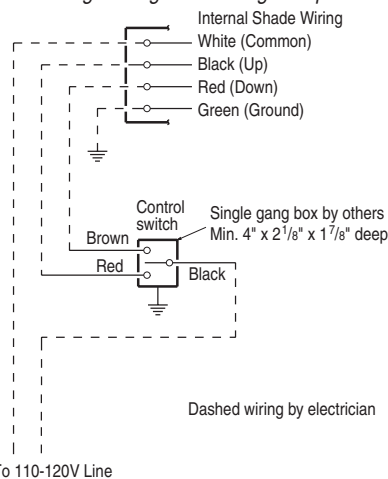
Shade operates on 110-120v, 60 Hz. current. Shade is shipped with internal wiring complete and control switch (es) fully boxed, and standardly supplied with a 6' cable lead. Longer lead can be substituted by removing two screws in motor end of roller, removing lead, plugging new lead in, and replacing 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.**

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.

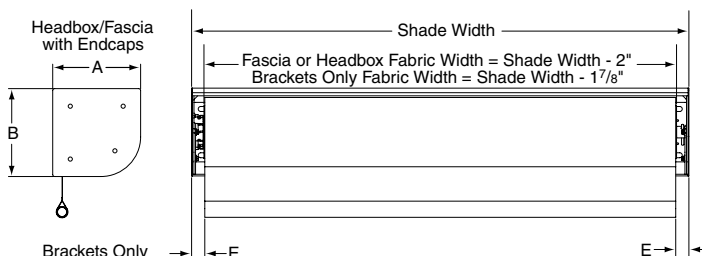
Single Shade Wiring Diagram

For multiple shades or low voltage wiring consult diagrams provided with control.

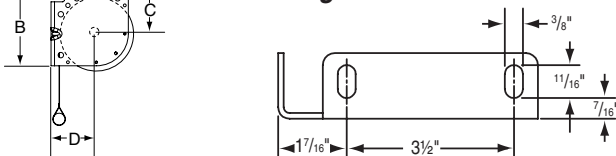


NOTE: Wiring diagram for standard right-hand motor placement with fabric from rear of roller, or left-hand motor placement with fabric from front of roller. For left hand motor placement with fabric from rear of roller or right hand motor placement with fabric from front of roller, Red is "Up" and Black is "Down."

Dimensions



Mounting Hole Dimensions/Locations



NOTE: Fascia or headbox will add 1/8" between the wall and the bracket; headbox will add 1/16" between ceiling or wall and the bracket.

Centers of mounting holes in endcaps and brackets are located approximately 13/16" in from the outer edge of the endcap/bracket.

	Headbox with Endcaps	Fascia with Endcaps	Brackets Only
A	6 5/8"	6 1/2"	5 7/16"
B	6 5/8"	6 1/2"	5 7/16"
C	N/A	N/A	3 1/4"
D	N/A	N/A	3 1/4"
E	1"	1"	1 5/16"

Please Note: Maximum bundle diameter is 5/4" (for Headbox, Fascia or Brackets)

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 shade is telescoping, place a piece of high quality gaffer tape about 1" wide on the exposed roller (where the fabric will cover it) on the side that you want the fabric drawn toward. For example: if fabric is tracking to the left, place the tape on the right side.

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.**