



Catalog Numbers • Les Numéros de Catalogue • Los Números de Catálogo: SF-ESxx

Country of Origin: Made in Canada • Pays d'origine: Fabriqué en Canada • País de origen: Hecho en Canadá

DESCRIPTION AND OPERATION

ES Shades are a powerful solution for motorized, multi-banded, and coupled shades. A single motor is used to control multiple shades allowing for significantly lower motor counts on a project when value engineering is required. ES Shades also offers a variety of solutions for oversized shades and specialty brackets used for multi-angled windows and corner applications.

Utilizing the combined power of intelligent motors and Design Center software, the Motorized System can be configured for time-based events and sensor-based events. An astronomical clock provides unlimited cascading timers for adjusting shade position based on time of day, calendar, seasonal and sunrise/sunset. Light sensors can be used to adjust the shades to block harsh glare or with a Wattstopper System for daylight harvesting scenarios. Motion sensors can be used to trigger energy saving strategies. For example, if a space is unoccupied for set time the shades will close and the lights will turn off. Scenes can also be activated from a wall mounted keypad that will override automation settings.

ES shades are available with tubes from 2 inches up to 5.5 inches and brackets from 3 inches up to 5 inches to support a wide range of shade sizes. Pocket size, motor strength, and brackets may increase for bigger tubes, depending on the roll up. ES shades can be installed in pockets or standalone with a variety of fascia and closure options for any sized shade.

Tools Required for Installation:

- Drill
- Square
- Right Angle Drill
- Flat Head Screwdriver
- Driver Bit for Screws
- Tape Measure
- Extension Cord
- 3/16" Drill Bit
- Needle Nose Pliers
- Hack Saw
- Solarfective Test Switch

NOTE: These instructions apply only to models with Standard Limit motors and not to models with ILT RS485 motors

SPECIFICATIONS

Voltage Supply	120V AC, 60Hz
Rated Current:.....	95A
Speed:	24RPM
Index Protection Rating	IP 31 (interior)
Limit Switch Type	Electronic
Limit Switch Capacity	300 Turns
Torque	6 Nm
Minimum Torque*	0.4Nm
Operating Temperature	32°F to 140°F (0°C to 60°C)
.....	(Interior use only)
Insulation Class	Class 1 for 120V AC
Thermal protection	4 minutes
Wiring	Parallel wiring allowed in accordance with
.....	NEC and local electrical codes.
Sound Level of motor**	< 38 dBA
Optional cables with NEMA plugs available in 3 ft, 6 ft, 12 ft, 18 ft, 24 ft	

* Minimum Torque: Minimum application weight to ensure smooth operation.

** Sound Level: Actual sound level will vary based on shade materials

INSTALLATION

- 1 Install optional hanger along length of pocket ensuring seams between lengths of hanger are tight and flush. (Fig. 1) Temporarily installing a small piece of closer at joint will aid in leveling the two pieces of hanger.

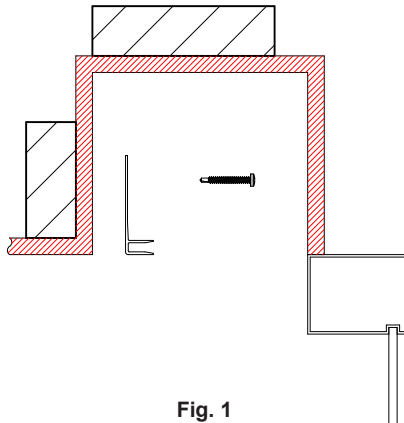


Fig. 1

- 2 For shades up to 120" in height, mount motor and idler bracket ¾" off back of pocket. (Fig. 2) For shades with greater height or with tubes bigger than 2 ½", increase this gap accordingly, ensuring Pocket dimensions are appropriately sized based on original project specifications.

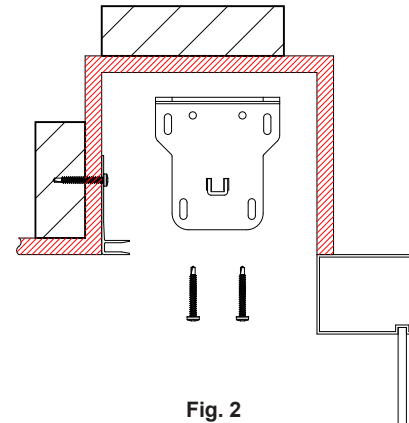


Fig. 2

- 3 Insert motor into tube, ensuring raised key of motor collar slips into keyway in tube. The motor wire should come off the top of motor with yellow cover plate facing down.

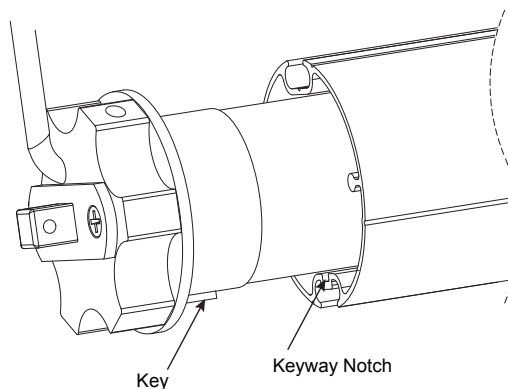


Fig. 3

- 4 If a single-banded shade: Insert idler bracket, then lift motor end up and over saddle and drop into place. (Fig. 4)

You can adjust the width of the shade to accommodate small differences between the window and shade width. The idler is adjustable, consisting of two parts: a sleeve and a notched insert (Fig. 5). The insert has numbered measurements on it. Each notch sinks the idler by 1/8". Remove the insert and rotate to the desired amount, lining that amount up with the arrow on the sleeve. The maximum amount the idler can be sunk is 3/4".

Ensure that the yellow cap on motor is facing down for easy access. Install cotton pin through motor bracket and bend it to secure in place

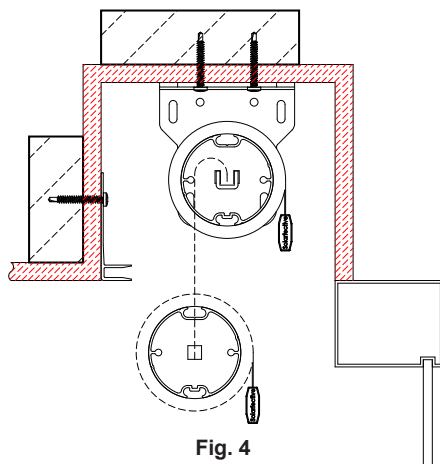


Fig. 4

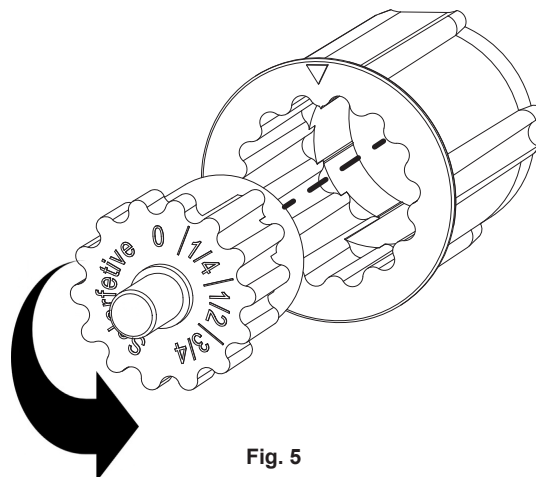


Fig. 5

- 5 If a multi-banded shade:

- For the first shade, insert axle bracket into axle plug at opposite end of shade. Lift motor and shade into place. Center axle bracket over mullion and secure in place.
- For middle shades, install axle into plug at opposite end of next shade and install on to the previous shade axle. Ensure that the spline channels are aligned from tube to tube as the shades are installed. Repeat this step until all center shades are installed.
- For the last shade, with idler bracket already installed, insert idler pin into idler bracket. Unscrew the last axle bracket. Lower ends of the shades at the axle location until axle can be inserted into the last shade tube, then push tubes up. Use a flat head screwdriver to center the axle bracket on the mullion and re-fasten it.

- 6 Connect shade to power supply using Solarfective test switch.

- 7 Remove yellow limit switch cap (Fig 6) and depress both limit switch buttons (Fig. 7). They will automatically lock in the depressed position. Operate the switch and check the motor operates correctly and in the correct directions. If not put the switch to the off position and switch the red and black wires and try again

- 8 Lower the shades to the sill. If the light gap down the side of the shade appears to not be in uniform shim down mounting brackets accordingly until fabric hangs plumb.

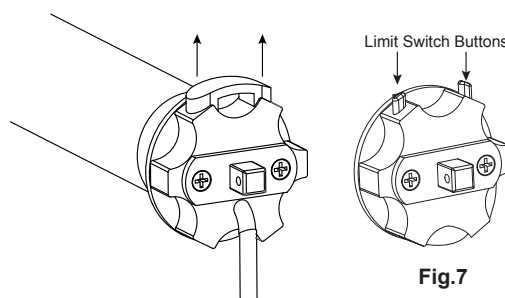


Fig.6

Fig.7

- 9 Lower shades all the way down until the hembar is about 1/4" from the sill. Ensure that the idler pin is all the way in the bracket and check each axle. The spacing between fabrics should be 1 3/4". If installing multi-banded shades, make sure the axle clips are tight to plastic plug to keep tubes from moving together or the idler pin coming out, which is usually the center groove. (Fig. 8)

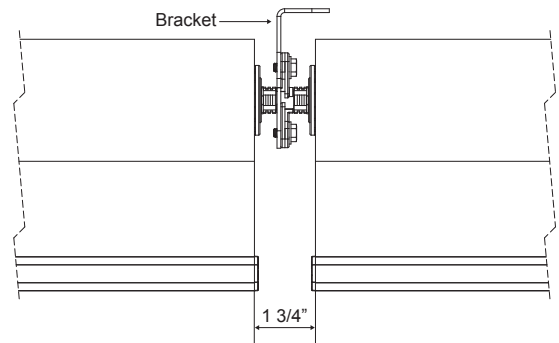


Fig. 8

- 10 Run shade up and down several times and note whether fabric is telescoping to one side. For example, if the fabric moves left- run a 10" piece of shim tape along the fabric where it contacts the tube on the right hand side. Repeat steps until shade rolls straight.
- 11 With multi-banded shades, it may be required to align hembars when the shades are in the open position. Note which hembars are low. Lower the shades until the tube is exposed and run a full width piece of shim across the low shade(s). repeat step until hembars are level.
- 12 To set the limits of the motor, position the shade in the down position and press the limit switch corresponding to the limit switch control chart below. Move the shade to the up position and press the 2nd limit button. Replace the yellow limit switch cap. (Fig. 9)

Limit Switch Control

	Motor on Left	Motor on Right
Upper Shade Limit	Yellow	White
Lower Shade Limit	White	Yellow

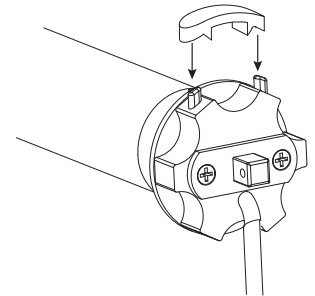


Fig. 9

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Install optional closure. It should fit securely into the slot of hanger (Fig 10). If it does not, remove closure and using a standard flat head screwdriver, open the lip on the closure in a few places along the length and re-install. When using more than one piece, make sure you use a joiner to secure the pieces together to ensure alignment (see Fig 11).

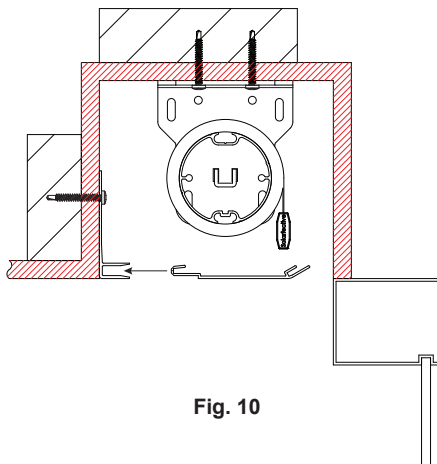


Fig. 10

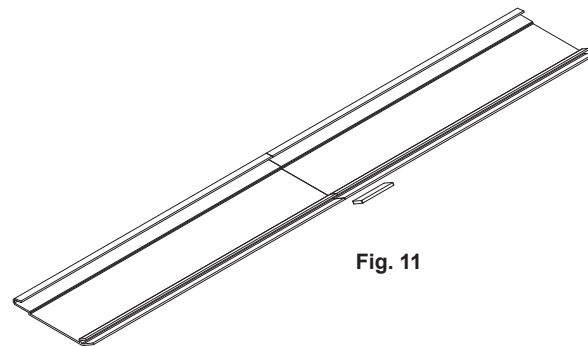


Fig. 11

WARRANTY INFORMATION	INFORMATIONS RELATIVES À LA GARANTIE	INFORMACIÓN DE LA GARANTÍA
<p>Limited Lifetime Warranty</p> <p>Legrand offers a Limited Lifetime Warranty for window shade product, and/or specific components of the window shade product to be free from defects in materials and workmanship under normal use. There are no obligations or liabilities on the part of Legrand for consequential damages arising out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation. For full warranty details visit https://www.legrand.us/shading-warranty</p>	<p>Garantie à vie limitée</p> <p>Legrand offre une garantie à vie limitée pour le produit de store de fenêtre et / ou des composants spécifiques du produit de store de fenêtre pour être exempt de défauts de matériaux et de fabrication dans des conditions normales d'utilisation. Il n'y a aucune obligation ou responsabilité de la part de Legrand pour les dommages consécutifs résultant de, ou en relation avec, l'utilisation ou la performance de ce produit ou d'autres dommages indirects en ce qui concerne la perte de propriété, de revenu ou de profit, ou le coût de l'enlèvement, installation ou réinstallation. Pour plus de détails sur la garantie, visitez https://www.legrand.us/shading-warranty</p>	<p>Garantía limitada de por vida</p> <p>Legrand ofrece una garantía limitada de por vida para el producto de sombra de ventana, y / o componentes específicos del producto de sombra de ventana para estar libre de defectos en materiales y mano de obra bajo uso normal. No hay obligaciones ni responsabilidades por parte de Legrand por daños consecuentes que surjan de, o en conexión con, el uso o desempeño de este producto u otros daños indirectos con respecto a la pérdida de propiedad, ingresos o ganancias, o costo de remoción, instalación o reinstalación. Para obtener detalles completos de la garantía, visite https://www.legrand.us/shading-warranty</p>