

## Installation Information

# SM AUTOMATIC General Installations Instructions

**All SM Automatic motorized window treatment systems must be installed by experienced professional installers.**

**SM Automatic provides heavy duty mounting brackets.**

**Fasteners are not included.**

**Appropriate fasteners must be used by the installer, as required to securely mount each window treatment system to the ceiling, wall, or window frame.**

**Since construction materials vary, it is up to the installer to determine which type of fasteners are required.**

**Since motorized systems are generally heavier than manual systems, extra consideration must be taken when determining the type and quantity of fasteners needed.**

**Wood backing is recommended for proper and secure attachment of mounting brackets to drywall or plaster walls and ceilings.**

**SM Automatic supplies motorized systems exclusively to the window covering trade only, and assumes no responsibility for installation.**

**It is the responsibility of the installer to determine and provide proper fasteners to accommodate the weight and security of the product.**

**Installers should not hesitate to call SM Automatic with any questions or concerns regarding installation or adjustment of any of our products.**

## Installation Information Model 300 Series Direct Drive

### Installation

SM Automatic Model 300 series direct drive drapery track systems, using our 30, 40, and 90 series tracks, are installed using ceiling or wall mounting brackets, or by screwing directly thru the track. When screwing directly thru the track, flat head screws must be used, in order to avoid obstructing the movement of the track components.

Brackets should be installed at approximately 8" from the ends, and intermittently, at least 36" on center. For ceiling mounting, a screw should be installed thru the end flange of the motor drive pulley also.

It is highly recommended that you attach the brackets onto the track system before installation, to familiarize yourself with the operation of the brackets.

The maximum size for a single unspliced track is 20'. Tracks over 20' must be spliced. Other considerations for splicing are due to shipping, access, and handling issues. If a track is spliced, re-assemble it before installation, taking great care to assure that the cable does not become twisted inside the track. It is also crucial to properly install splice brackets on the 90 track. The splice must be installed perfectly so it joins the tracks together, assuring that there is no gap between the tracks.

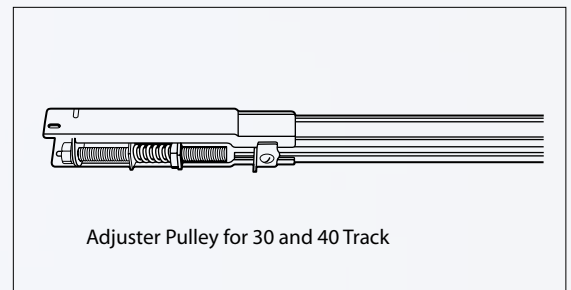
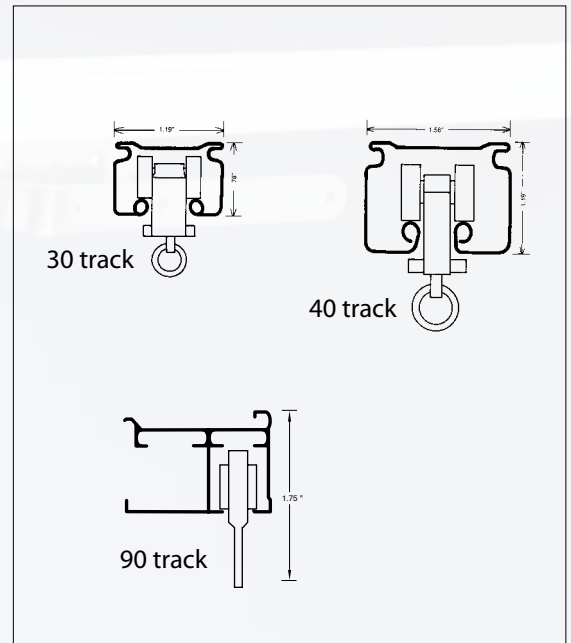
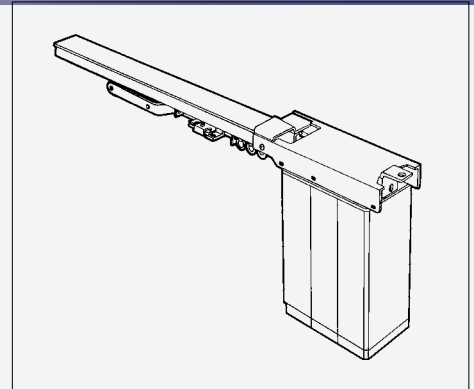
**Fasteners are not included.**

**Please refer to general installation instructions on page 66.**

Attaching the Motor:

Model 300 series drapery motors are attached to the direct drive track system drive pulleys as follows, after the track has been installed:

1. Align motor shaft with shaft hole in drive pulley wheel, and simultaneously align motor lock-pins with keyhole slots in drive pulley housing.
2. Insert shaft into drive pulley wheel, insert lock-pins into keyhole slots, twist-lock motor into alignment with pulley housing.
3. Slide locking plate all the way up so it is in place to secure motor to drive pulley, and tighten thumb screw. Test that the motor is secure before releasing or operating.



## Installation Information Model 300 Series Direct Drive

### Installation

Minor adjustment of the cable tensioning might be required. This is achieved by tightening or loosening the tensioning adjuster bolt. On the 90 series tracks, this adjuster is located on the master carrier. On the 30 and 40 series tracks, this adjuster is located in the end pulley housing.

If the motor stops prematurely, the tension is too tight. To loosen the tension, turn the tensioning adjuster bolt counter clockwise, a little bit at a time, until the motor operates properly.

If the motor keeps running after reaching the fully open or closed position, the tension is too loose. To tighten the tension, turn the tensioning adjuster bolt clockwise, a little bit at a time, until the motor operates properly.

There are no adjustments required to the motor itself. The limits are electronic and any adjustment necessary is done at the factory and should not be attempted by anyone other than a factory technician.

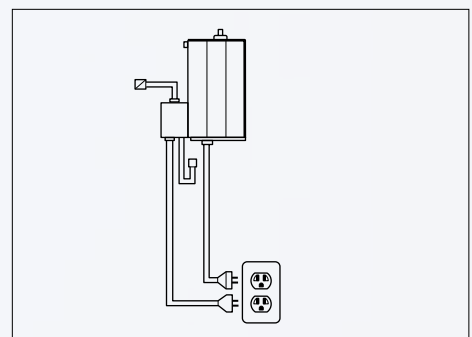
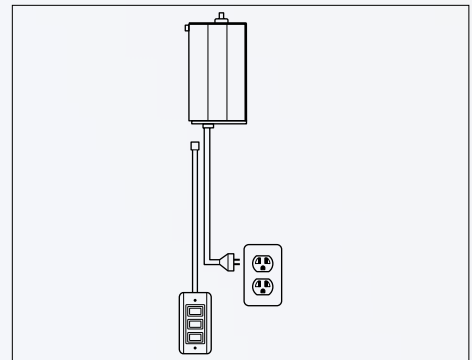
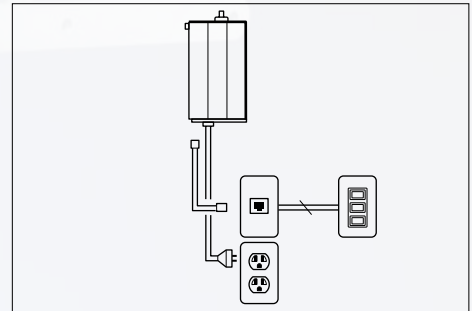
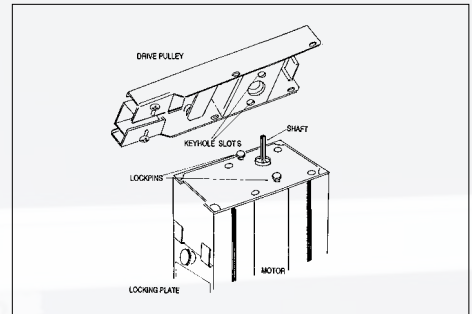
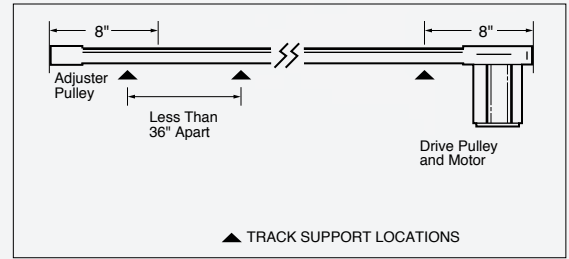
Motors are controlled as follows: SM Automatic switch, SM Automatic remote control systems, or other authorized home automation systems, using momentary dry contacts. Wiring required from controllers is 26 AWG / 4 conductor (26/4) low voltage modular cable, and is attached to the motor control port with RJ-11 type plug. All controllers and control accessories are supplied separately.

### Electrical

Electrical wiring and attachment must conform to local building and electrical codes.

A live (non-switched) 110VAC duplex outlet receptacle is required for power. Location of the outlet should be determined according to the conditions of the window & wall. The outlet may be installed in either the ceiling, wall, header, jamb, or any area determined by the electrician.

The ideal location of the outlet is as close to the end of the drapery track system as possible. It should be installed to be clear of the track and motor and in a location so it does not interfere with the operation of the drapery track system. 12" below the end of the track is recommended.



## Installation Information Model 5

### Check the following prior to installation:

Model 5 load capacity is 100 lbs. of drapery weight, when using a superior quality roller track.

Use a non-stretch cord (see page 10).

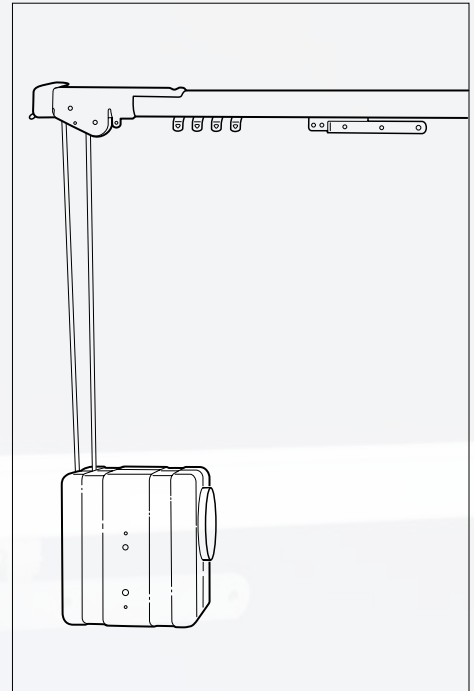
Use track with ball-bearing end pulleys, wide shoe master carriers, and wide shoe metal pendant carriers.

Make sure track, or rod, is secured to the wall, or ceiling, at the end where the motor will be installed.

Use cut-to-measure track or rods, not extension type.

Model 5 is not designed to be used with curved track.

Does the electrical wiring conform to local codes?



### Installation

Mount track and select one end for motor location.

Align draw cord with motor pulley. Draw cord loop should fall to the middle of the wall bracket.

Position bracket on wall below the selected end of track at least 18" from floor and 30" below track (maximum of 108" below track). Ensure bracket is high enough so that draperies conceal motor.

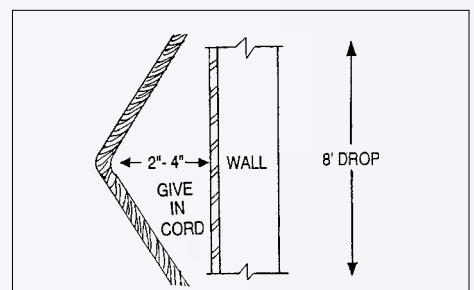
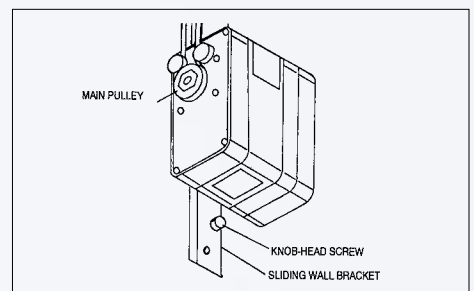
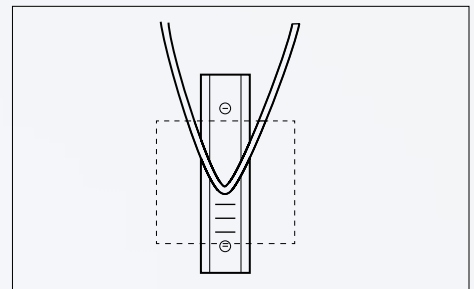
Attach bracket to wall using countersunk or flat head screws. Mount with opening facing up and stop guard facing down.

Thread draw cord by feeding cord and looping it around drive wheel; then turn the drive wheel slowly with your finger.

Slide motor into wall bracket allowing it to hang by its own weight, then push it down one or two notches.

Tighten the knob head set screw on the motor bracket.

Test cord tension to permit pulling cord 2 to 4 inches out from the center line.



### Installation Information Model 9600

#### Installation

Model 9600 installation brackets are cam type universal mounting brackets. (SMA Type F Mounting Brackets) They may be either wall or ceiling mounted. Mounting brackets type A and B are also available.

The system head rail is secured in this bracket by a cam that is twist locked in place. Extra precautions must be taken to assure that the cam supports both flanges of the head rail.

The brackets must be located in such a manner in order to clear the motor and internal electrical and lifting components.

It is highly recommended that you attach a bracket onto the head rail before installation, to familiarize yourself with the operation of the bracket.

Spacing should not exceed 36" on center. SM Automatic supplies enough brackets with each system to meet this criteria.

**Fasteners are not included.**

**Please refer to general installation instructions on page 66.**

Plastic straps are factory attached to cellular & pleated style shade systems, to immobilize the shade during shipping and handling. They should be removed after installation is complete, but definitely prior to operation.

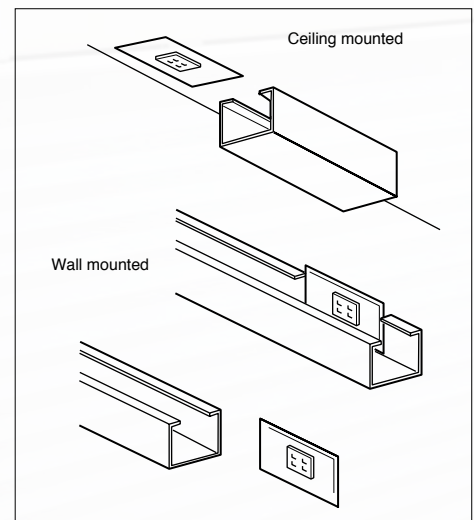
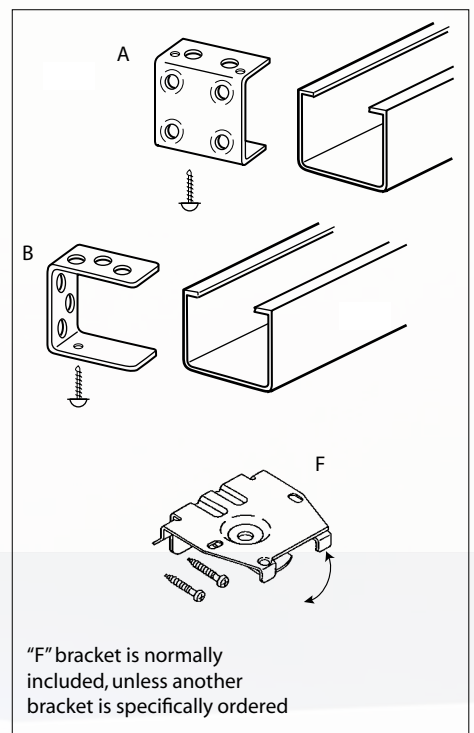
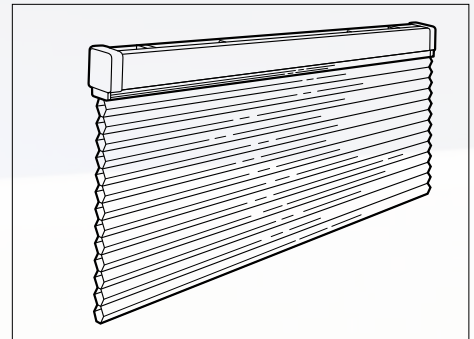
#### Electrical

Electrical wiring and attachment must conform to local building and electrical codes. Hard wiring for control by a 110VAC SPDT wall switch, or other 110VAC controller, must be done by a licensed electrician.

Location of the 110VAC outlet receptacle or junction box should be determined according to the conditions of the window & wall.

The outlet or j-box may be installed in either the ceiling, wall, header, jamb, or any area determined by the electrician.

The ideal location of the receptacle is as close to the end of the head rail as possible. It should be installed to be clear of the head rail and in a location so it does not interfere with the operation of the shade.



### Installation Information Model 9300 series

#### Installation

Model 9300 installation brackets are universal mounting brackets. They may be either wall or ceiling mounted.

The system tube is secured in this bracket by first inserting the idler shaft into the idler bracket. Then insert the motor shaft into the motor bracket and secure it with the cotter pin provided.

Extra precautions must be taken to assure that the brackets are secure and spaced appropriately so there is no slack or movement of the tube system between the brackets. The system needs to be fitted within the brackets perfectly tight.

This is extremely important to avoid the possibility of the idler end slipping out of the idler bracket. Extra care should be taken during the installation process as well.

It is highly recommended that you attach the brackets onto the motorized tube system before installation, to familiarize yourself with the operation of the brackets.

**Fasteners are not included.**

**Please refer to general installation instructions on page 66.**

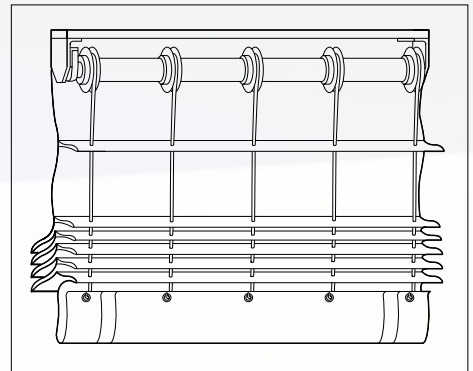
#### Electrical

Electrical wiring and attachment must conform to local building and electrical codes. Hard wiring for control by a 110VAC SPDT wall switch, or other 110VAC controller, must be done by a licensed electrician.

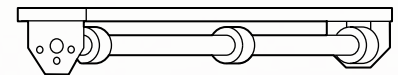
Location of the 110VAC outlet receptacle or junction box should be determined according to the conditions of the window & wall.

The outlet or j-box may be installed in either the ceiling, wall, header, jamb, or any area determined by the electrician.

The ideal location of the receptacle is as close to the end of the shade system as possible. It should be installed to be clear of the tube and in a location so it does not interfere with the operation of the shade system.



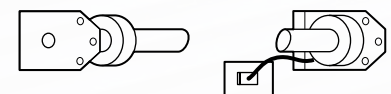
Ceiling Mount



Wall Mount



Wireless Remote Receptacle



Hardwire

### Installation Information Model 5100

#### Installation

Model 5100 vertical blind track system may be installed either as a direct ceiling mount or wall mounted.

For direct ceiling mount, secure by screwing directly thru the center channel of the track.

Spacing should not exceed 36" on center. Ceiling type brackets are not available for the Model 5100.

Wall brackets are available. Spacing should not exceed 36" on center.

It is highly recommended that you attach the wall brackets onto the motorized track system before installation, to familiarize yourself with the operation of the brackets.

**Fasteners are not included.**

**Please refer to general installation instructions on page 66.**

#### Electrical

Electrical wiring and attachment must conform to local building and electrical codes.

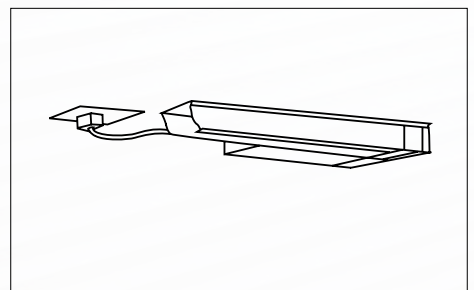
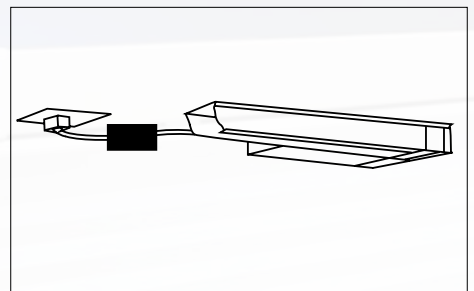
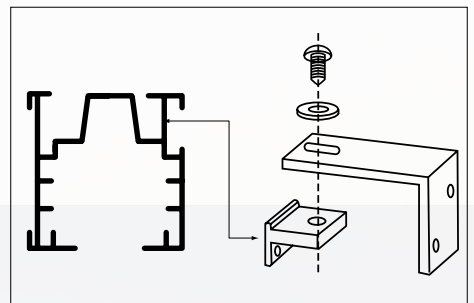
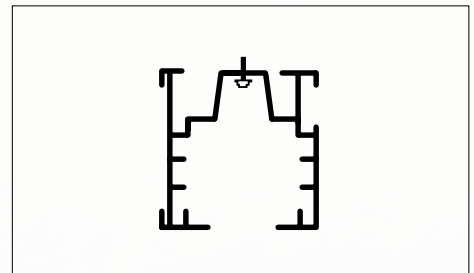
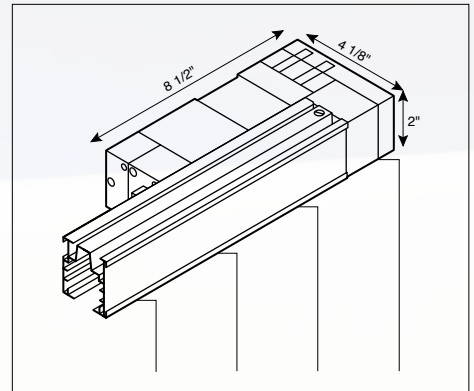
Hard wiring for control by a 110VAC SPDT wall switch, or other 110VAC controller, must be done by a licensed electrician.

Location of the 110VAC outlet receptacle or junction box should be determined according to the conditions of the window & wall.

The outlet or j-box may be installed in either the ceiling, wall, header, jamb, or any area determined by the electrician.

The ideal location of the receptacle is as close to the end of the track system as possible.

It should be installed to be clear of the motor and in a location so it does not interfere with the operation of the vertical blind track system.



### Installation Information Model 8000

#### Installation

Model 8000 installation brackets are cam type universal mounting brackets. (SMA Type F Mounting Brackets) They may be either wall or ceiling mounted. Mounting brackets type A and B are also available.

The system head rail is secured in this bracket by a cam that is twist locked in place. Extra precautions must be taken to assure that the cam supports both flanges of the head rail.

The brackets must be located in such a manner in order to clear the motor and internal electrical and lifting components.

It is highly recommended that you attach a bracket onto the head rail before installation, to familiarize yourself with the operation of the bracket.

Spacing should not exceed 36" on center. SM Automatic supplies enough brackets with each system to meet this criteria.

**Fasteners are not included.**

**Please refer to general installation instructions on page 66.**

Plastic straps are factory attached to the blind slats to immobilize the blind during shipping and handling. They should be removed after installation is complete, but definitely prior to operation.

#### Electrical

Electrical wiring and attachment must conform to local building and electrical codes. Hard wiring for control by a 110VACSPDT wall switch, or other 110VAC controller, must be done by a licensed electrician.

Location of the 110VAC outlet receptacle or junction box should be determined according to the conditions of the window & wall.

The outlet or j-box may be installed in either the ceiling, wall, header, jamb, or any area determined by the electrician.

The ideal location of the receptacle is as close to the end of the head rail as possible. It should be installed to be clear of the head rail and in a location so it does not interfere with the operation of the blind.

