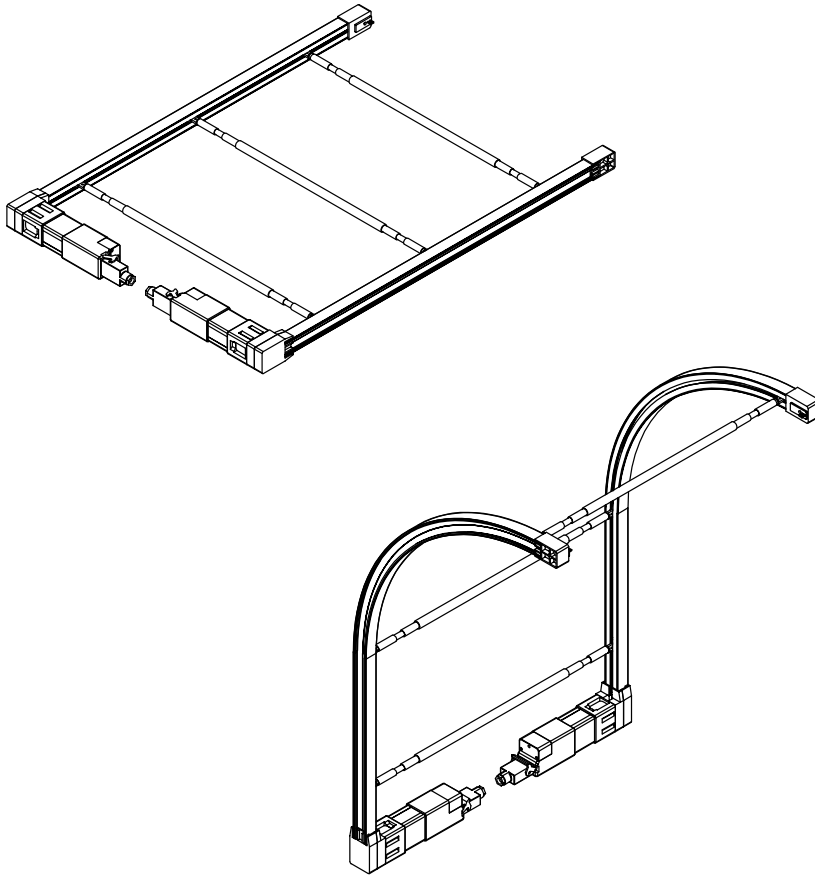


# **BTX™**



## Installation Instructions for Shading System 5066

# Shading System 5066

# Table of Contents

## Tools Required:

- Power Screwdriver  
w/Phillips bit
- Screws & Anchors
- Needle Nose Pliers
- Wire Cutters
- Flathead Screwdriver
- Small Phillips
- Small Flathead
- Test Cable
- Hacksaw (only used for  
cutting down track)

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### **ATTENTION INSTALLERS!**

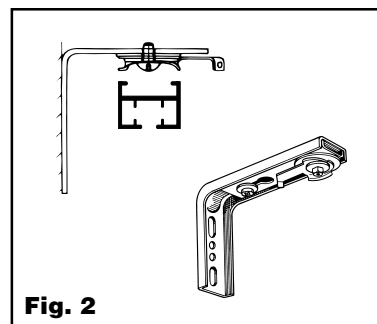
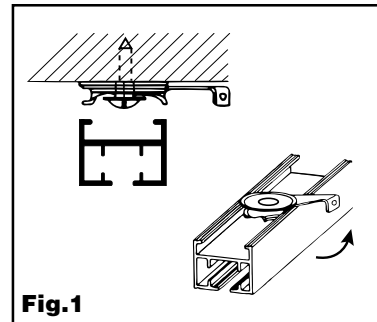
BTX motorized systems are high dollar products. All BTX product has been designed with exacting tolerances. Installation must be done with great care and precision. All headrails must be mounted onto firm supports. Support spacing instructions must be adhered to. Tracks must be aligned properly. Tracks may not be bent or forced into position. Electrical connections must be made by licensed electricians.

# Installing the 5066

## Track Installation

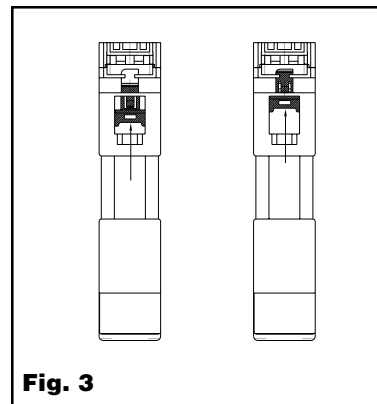
Supplied brackets will accommodate either wall or ceiling mount applications. System 5066 requires at least one clip every 18". Some installations may require more brackets depending on the width of the track. Brackets should be located at each end then continue with bracket placement no more than 18" apart. Make sure the headrails are mounted parallel to one another, maintaining the same distance between tracks. Shim as needed.

1. Mount bracket hardware to the ceiling (**Fig. 1**) or wall (**Fig. 2**), depending on your specific application. **NOTE: Make sure all screws are mounted into firm material with enough strength to hold track and fabric load. Do not over tighten screws on the clips or they will be impossible to rotate. Do not apply load to sheet rock or soft materials!!**
2. Attach headrail to the brackets.
3. Check all clips and ensure that clips have been fully rotated and are pressed firmly against the headrail.
4. For spliced tracks, make sure to place a bracket on both sides of the splice. The splice must be properly aligned for the system to function correctly. Shim as needed.



## Attach drapery motor to the track

1. Align blue dot on master carrier with blue dot on headrail.
2. Install motor, aligning blue dot on motor with blue dot on gear housing.
3. Rotate motor, aligning red dot on motor with red dot on gear housing. **Push motor locking clip into gear housing. (Fig. 3) Make sure clip is completely depressed!**
4. Motor is properly installed when red dot on master carrier aligns with red dot on headrail.



## Test the 5066 system before you attach the rods and fabric

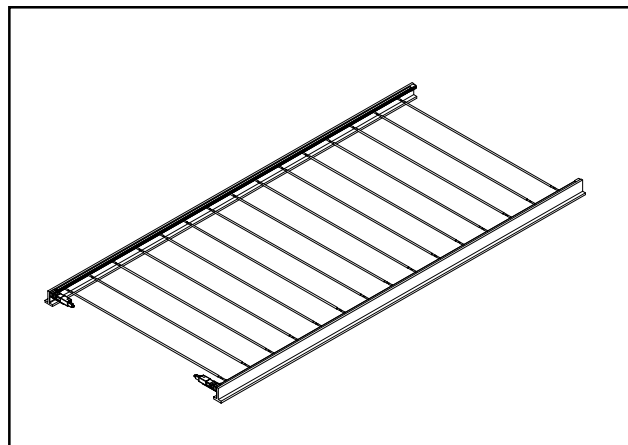
1. Check that locking clip on the motor is secure.
2. Attach your test cable to the tandem wiring harness then run the system.

**NOTE: For tandem systems, make sure the wiring harness is properly plugged in, i.e., appropriate plugs are in the drive and non-drive motors.**

## Attach system to controls

This will either be a hardwired option, or one with plug-in controls. For hardwire, wire 4-conductor from harness into the J-box. If using the plug-in option, just plug control into harness and then plug 3-prong AC cord into a standard 110V outlet.

Please proceed to "Installing Rods & Fabric for the 5066" on next page.

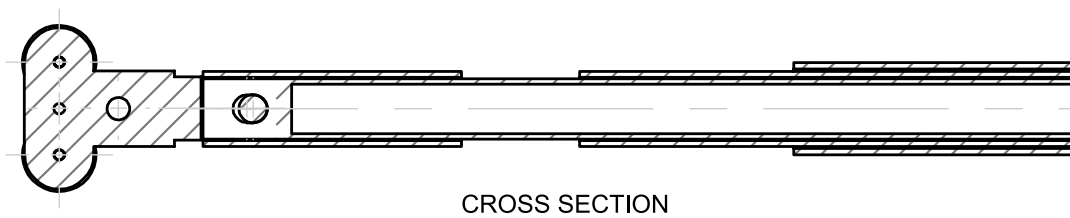


# Installing Rods & Fabric for 5066

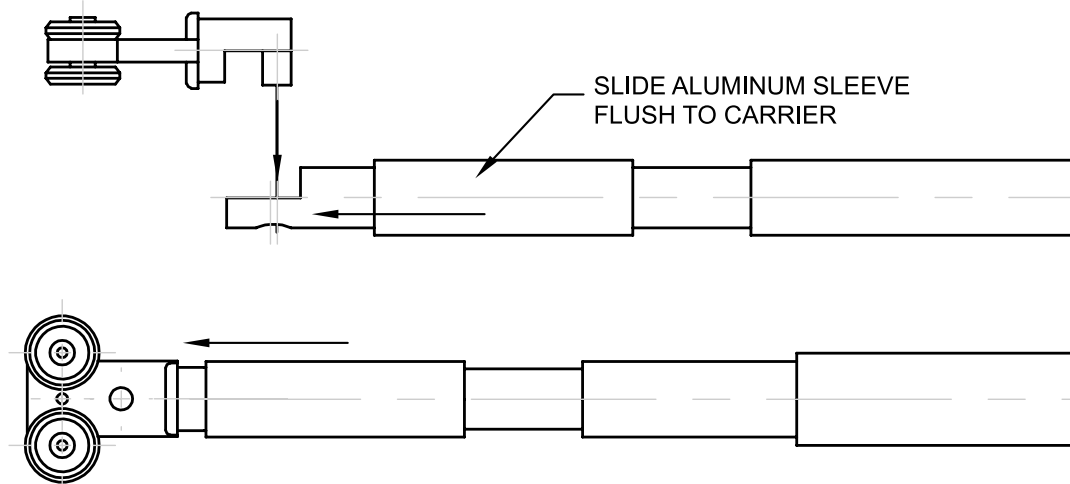
After the system has been installed, the motors and harness have been attached and the system has been tested with a test cable, it is now time to install the rods and the fabric.

Install the rods and the fabric at the same time. The fabric simply attaches to the rods utilizing pockets on the backside of the fabric. Slide the rods through the pockets, slide one aluminum sleeve on each end, and attach the rods to the hooks. The rods connect to each carrier via a molded hook with an aluminum sleeve that slides over part of the carrier and locks the rod in place. Start with the lead or master carrier and continue on to the last carrier.

Once the rods and fabric are in place, again test the system. If all goes well and no other shimming is needed, do the final connections to the controls and perform the last test. Depending on stack requirements, the motor limits may need to be adjusted. Please refer to "Limit Adjustment Instructions" on page 7.



CROSS SECTION



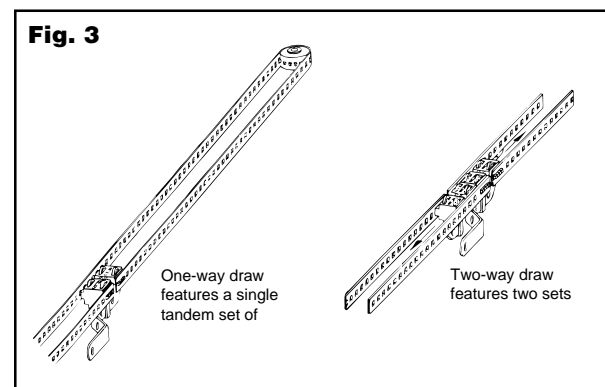
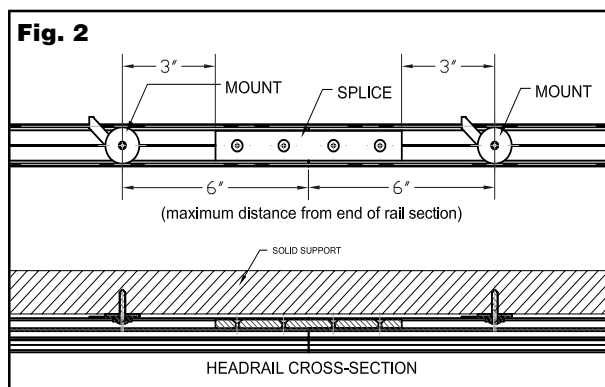
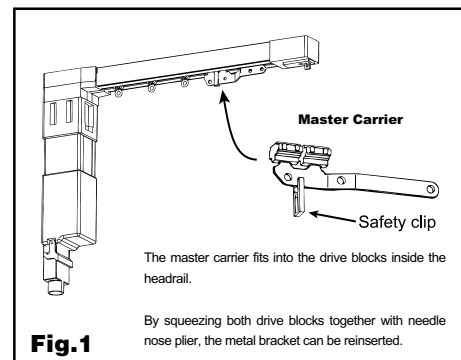
SLIDE ALUMINUM SLEEVE  
FLUSH TO CARRIER

# Splicing the 5066

In order to decrease expenses for crating and freight in long 5066 systems, the tracks can be supplied in sections. This means that the fully assembled tracks are partially disassembled at the factory after completion, limit setting and testing. Breaking down long, curved or complex units into smaller sizes makes them more manageable, and they can be quickly reconnected at the site. Shipping in smaller units also permits access through cramped installation areas.

**IMPORTANT NOTE:** *BTX quality products have been designed with tight tolerances. The BTX headrail splice for system 5066 has been designed for the most optimum in smooth headrail continuity and functionality. Splicing installation instructions must be followed exactly to ensure the system will operate flawlessly according to its design criteria. Headrail at both ends of the splice must be perfectly lined up in height as well as in longitudinal alignment. Support spacing instructions must be adhered to.*

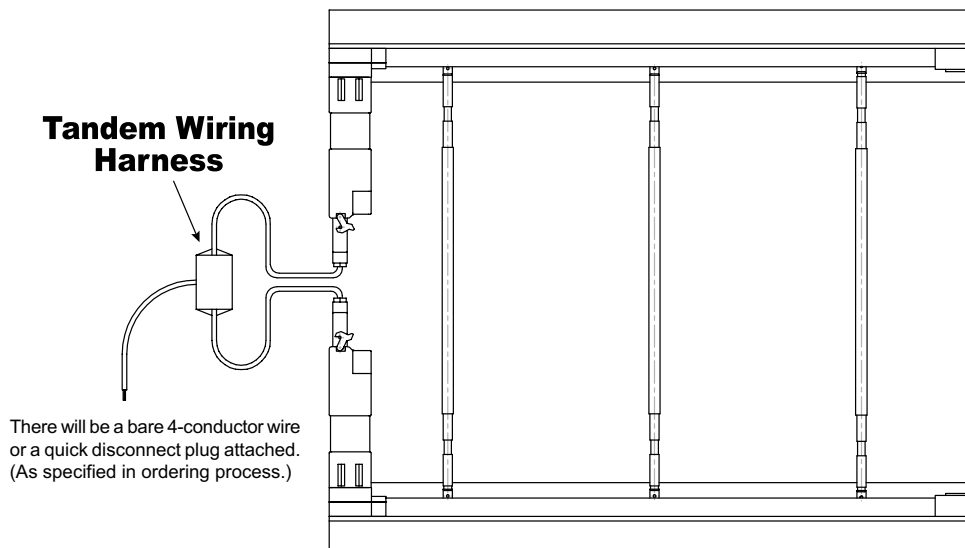
1. The tracks are provided with an internal transportation belt. This belt is connected into a continuous loop by means of the master carrier assembly. In the disassembled tracks, the master carrier (Fig. 1) has been disconnected from its drive blocks and must be installed.
2. Prior to working on the connection, place the track sections with the adjoining track ends approximately one foot apart.
3. The track splice should be in one side of the track. Slide the track without the splice onto the splice sticking out of the track so that the tracks meet tightly. (Fig. 2)
4. Make sure the ends of the track are square to each other. Insert short splice screws (supplied) and tighten. Ensure that screws do not extend into path of master carrier inside the headrail.
5. Move plastic drive blocks together with needle nose pliers and insert metal master carrier into the slots of the blocks. Attach plastic safety clip (Fig. 1) over metal master carrier and between drive blocks. This locks the master into the blocks. **NOTE: A one-way draw track has one master carrier assembly. A two-way draw (or split-draw) has two carrier sets. For splicing, only one carrier set has been disassembled (Fig. 3).**
6. Check for alignment of headrail.
7. Track is now ready for installation. Refer back to installation instructions. Make sure you install a bracket on both sides of splice joint.
8. When testing the system, if the master carrier seems to be getting caught on the splice, you need to shim one side of the track either up or down. Please note that when shimming, a little goes a long way. Shim in small increments.



# Installing Tandem Motors for 5066

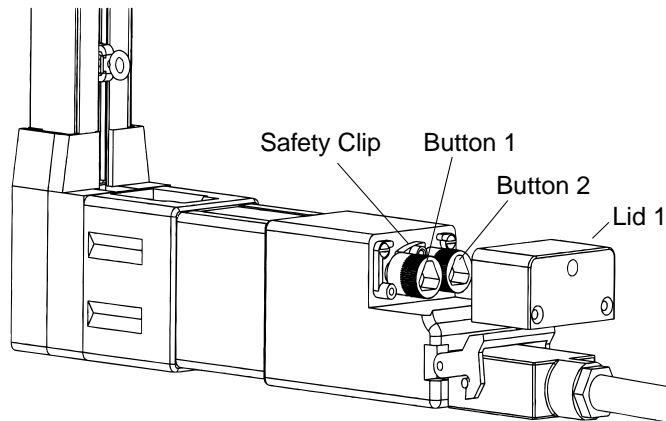
The system you have ordered has been supplied with tandem motors. A wiring harness has been supplied to control the tandem motors. The following instructions will guide you through the proper procedure for wiring the motors to the control. Read and follow the instructions before attempting to operate the motors.

1. Remove the wiring harness from the packaging and stretch it out to check for proper length, i.e., from motor to motor. The harness should stretch at least this distance.
2. Identify the plugs by checking the labels on each plug. One plug will be marked "Drive Motor"; the other will be marked "Non-Drive Motor". You will notice the wires from each plug running into a small black box where they form a junction. Do not remove this box! Exiting this box is a 4-conductor lead which is to be connected to the wiring coming from the control.
3. Identify the motors by checking the labels that are on the back of each motor. One motor will be marked with the label "Drive Motor"; the other will be marked "Non-Drive Motor". If the motor labels are not visible, you can identify each motor by looking at the clear housing on the motor. The "Drive Motor" will have the limit switch assembly inside. The "Non-Drive" will look empty.
4. Plug the appropriate plugs into the corresponding motors. **NOTE: Tandem motors are designed to be operated simultaneously only. Do not run either motor individually, as this will cause the motors to get out of sync. Operating motors under such a condition will damage the system and will void your warranty.**
5. After the system has been tested for proper operation by using your test cable, secure the wire harness to the mounting surface, using the cable clamps provided.
6. The 4-conductor lead from the small J-Box can now be connected to your control wiring.



# Limit Adjustment Instructions

## 5066 Drapery Motor



The following instructions are intended for use where a minor adjustment of the limits is required to accommodate the stacking requirements of the drapery, or where the original size of the system has been altered in the field per BTX instructions. For adjustments to be made, the motors must be running on the tracks, and a test cable should be used for this purpose.

1. All tracks and motors have been numbered at the factory prior to shipping. **Verify that the motor and track numbers match before you attempt to set the limits.** If track and motor are mismatched, it could result in the limit buttons controlling the function opposite to those for which they are labeled.
2. Install motor(s) on the appropriate track, and lock into place. If track is a tandem motor system, attach drive motor and non-drive motor to track and plug in tandem wiring harness to motors. **Drive and non-drive motors, endcaps and plugs are labeled accordingly. Make certain they match up.**
3. Locate limit buttons inside lid 1 by removing three Phillips head screws. Tandem motor systems have limits on drive motors only. Limit buttons are marked for the function they control stack and close.
4. Run the track in the direction the adjustment needs to be made. At the same time, observe the direction that the limit button to be adjusted is turning. If buttons are not marked: Drive Motor Left - front button is the stack and the back button is the close. Drive Motor Right - front button is the close and the back button is the stack.
  - A. If the motor shuts off before reaching the intended location, push the safety clip to one side, push the limit knob in, and carefully turn it in the opposite direction. The motor should immediately begin to advance in the direction it was running before shutting off. When it reaches the correct stopping point, carefully pull the button out and lock it into place with the safety clip. Hand tighten a screw into safety clip to ensure limits will not adjust themselves. Test run to verify that the limit is set.
  - B. In the event that the motor is running past where it should shut off, shut it off manually with the switch at the desired stopping point. Push the safety clip to one side and push in the limit button to be adjusted. Carefully turn the button in the same direction it was turning before being shut off. Watch and listen for the limit switch to drop into the recessed portion of the cams. When the limit switch can be seen engaging or makes an audible clicking sound, carefully pull the button out and lock it into place with the safety clip. Hand tighten a screw into safety clip to ensure limits will not adjust themselves. Test run to verify that the limit is set.

**NOTE: When running a tandem motor system, power from the switch should be applied to the wiring harness supplied with the track not directly to the drive motor.**

# Maintenance Instructions

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The Motorized Drapery Track System 5066 is basically designed for maintenance free operation; however, inspections should be made at least once a year. At that time the following should be inspected:

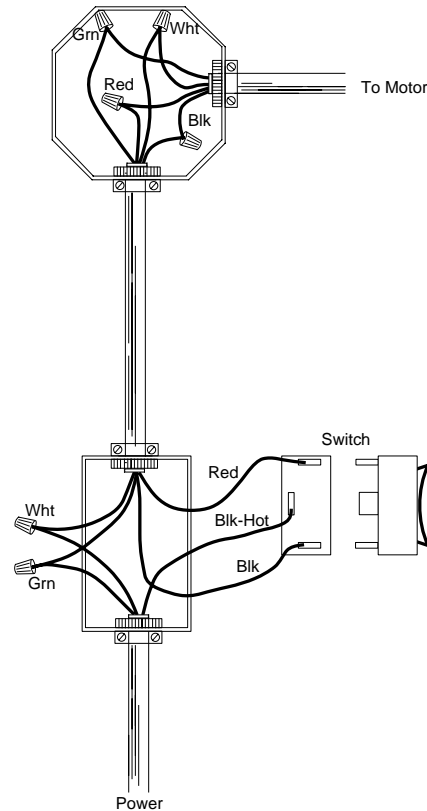
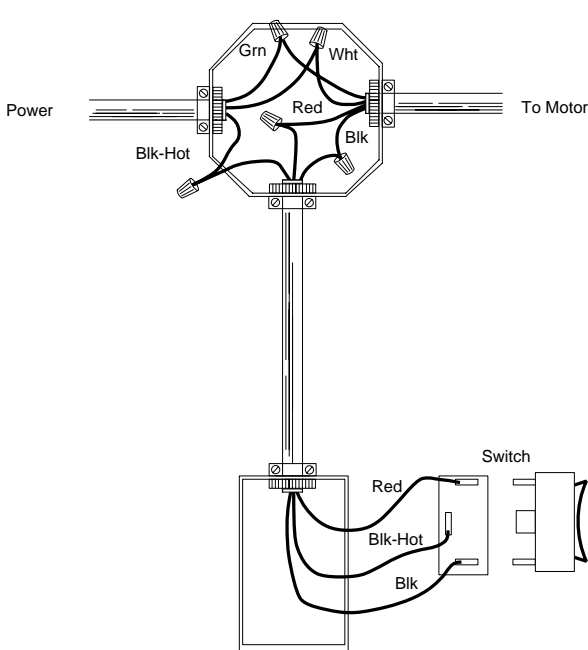
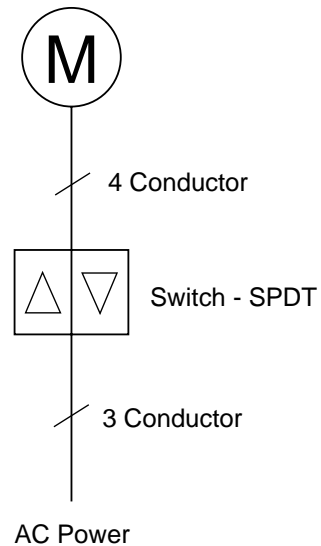
1. The track should automatically shut off at the fully opened and fully closed position.
2. The drapery carriers should move freely by hand, with no jamming or dragging.
3. The end pulleys and splice locations should be visually inspected for residue such as belt shavings. Such residue may indicate improper alignment.
4. If lubrication is required, the belt, carrier wheels and end pulley should be lubricated generously with a high quality clear silicon.

# Basic Wiring - Switch

## Switch Control Option

Illustrated here is the basic wiring diagram for the switch control option for the Motorized Shading System 5066.

**Caution!** Due to the risk of feedback voltage from the capacitor, **do not** connect motors in parallel!

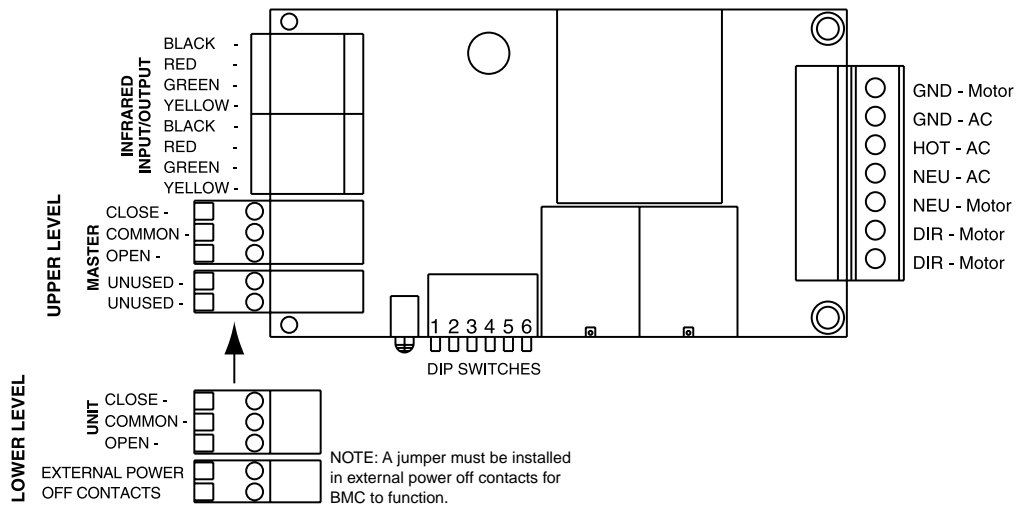
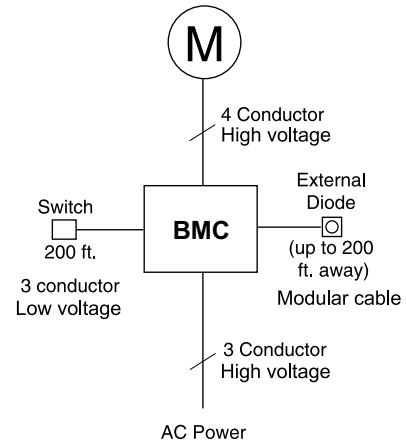


# Basic Wiring - Infrared

## Infrared Remote Control Option

Illustrated here is the basic wiring diagram for the switch control option for the Motorized Shading System 5066.

**Caution!** Due to the risk of feedback voltage from the capacitor, **do not** connect motors in parallel!



The BMC-12 uses a total of 12 different channels which corresponds to the 12 channel remote hand-sender. To program your receiver using the easy dip switches, follow the chart:

Mode	1
Double Throw	On
Single Throw	Off

Mode	2
Full Motion	On
Jog / Latch	Off

Channel Setting

Dip Switches	3	4	5	6
Channel 1	Off	Off	Off	On
Channel 2	Off	Off	On	Off
Channel 3	Off	Off	On	On
Channel 4	Off	On	Off	Off
Channel 5	Off	On	Off	On
Channel 6	Off	On	On	Off
Channel 7	Off	On	On	On
Channel 8	On	Off	Off	Off
Channel 9	On	Off	Off	On
Channel 10	On	Off	On	Off
Channel 11	On	Off	On	On
Channel 12	On	On	Off	Off

# Warranty & Return Policy

## Motorized Systems

MOTORIZED SYSTEMS AND CONTROLS PURCHASED FROM BTX WINDOW AUTOMATION, INC.

1. All BTX motorized systems are warranted against defects in materials and workmanship for five years from the date of shipment from the Dallas factory of BTX. All BTX electrical and electronic controls are warranted against defects in materials and workmanship for two years from the date of shipment from the Dallas factory of BTX.
2. Should any failure to conform with this warranty appear during the specified period under normal and proper use, and provided that the motors, hardware or controls have been properly stored, installed and maintained with due regard to any directives, instructions and operating procedures provided by the manufacturer, BTX shall, upon presentation of proof of purchase, correct such nonconformity either by repair or by replacement of the nonconforming part, F.O.B. factory, at the option of BTX. Return of motors, hardware or controls pursuant to this paragraph shall be at purchaser's risk and expense.
3. BTX warrants motors, hardware and controls repaired or replaced pursuant to the foregoing warranties, under normal and proper use, storage, installation and maintenance, against defects in materials and workmanship for a period of 30 days from date of start-up of such repaired or replaced motors, hardware or controls or the expiration of the original warranty, whichever is longer.

The foregoing warranties do not cover defects resulting from misuse or failure to follow instructions. They also do not cover labor on location, service calls, reinstallation or expenses involved in shipping, packing or returning goods. Any alteration or repair other than by a factory authorized person will invalidate this warranty.

IN NO EVENT SHALL BTX BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES IN CONNECTION WITH THIS PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE PERIODS OF THESE WARRANTIES.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, ORAL OR IMPLIED. ALL OTHER WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED. Correction of nonconformities as provided above shall be purchaser's exclusive remedy and shall constitute fulfillment of all liabilities of BTX, whether in warranty, contract, negligence, tort or otherwise, with respect to the equipment or part delivered hereunder. In no event shall BTX be responsible for providing working access to the defect, including disassembly or reassembly of motors, hardware or controls.

## Return Policy

BTX Window Automation products are customized, and as a rule, they cannot be returned. Any goods to be returned to the BTX factory for repair, credit or otherwise require prior authorization and must be clearly marked with the RGA (Return Goods Authorization) number issued by the BTX customer service department. No returned goods will be accepted unless clearly marked with an RGA number. Any return shipment to BTX must be freight prepaid. All shipments from the BTX factory will be made F.O.B., freight collect, best way, unless arranged otherwise. Final acceptance of returned goods is subject to factory inspection. Restocking charges will apply.

