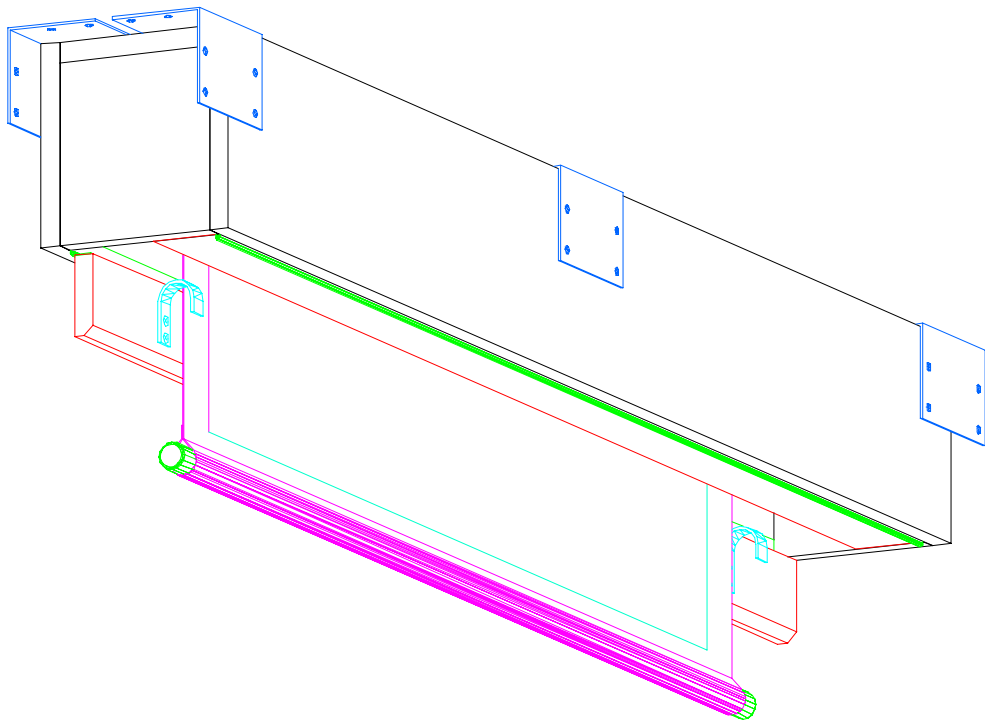


Installation Instructions

LECTRIC II & IV FLUSH CEILING MOUNTING



VIDEO PROJECTION SCREENS

MECHANICAL INSTALLATION

Referring to the table at the end of this manual, determine the weight of the screen for this installation. Carefully determine the lifting and transporting methods for bringing the screen to the mounting location.

Warning: *The mounting location must be structurally sound, rigid, and capable of carrying at least 4 times the weight of the screen. Safety cable attachment is strongly recommended for additional safety.*

As shown in Figure 1, there are six mounting brackets for the screen. Remove and reverse the direction of the middle brackets for mounting. Use 3/8 inch or 10mm diameter threaded rod (not supplied) for hanging. Select and enlarge a hole in each of the mounting brackets to 7/16 diameter for hanging. Use at least one threaded rod for each mounting bracket.

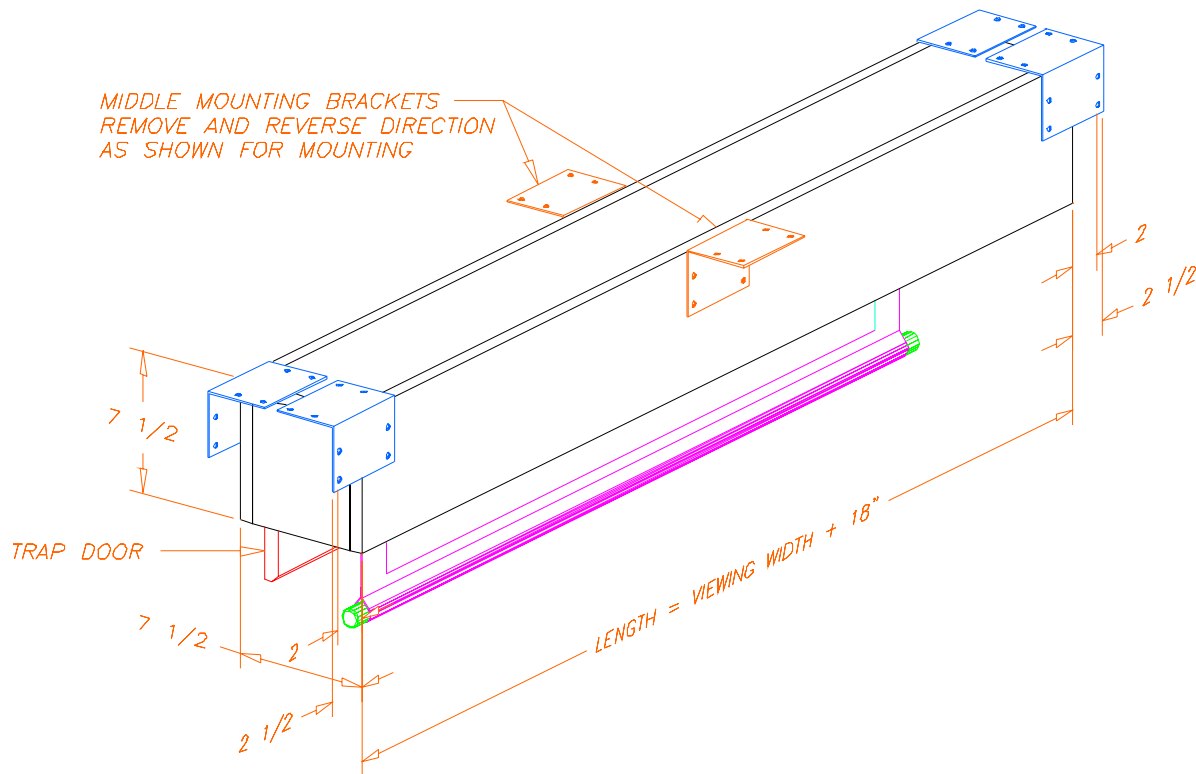


Figure 1

ELECTRICAL CONNECTIONS

1. Be certain the power is **OFF** before making electrical connections. All wiring are required to comply with National and/or Local electrical codes and regulations.
2. The standard LECTRIC II screen operates on 120VAC, 60Hz power supply. Control of the screen is usually by a SPDT toggle switch with center 'OFF' position. Optionally, a 12VDC-relay trigger control, or an IR (infrared) or a RF (Radio Frequency) remote control can also operate the screen. Please consult the dealer for details.

Note: The switch's contacts or relay's contacts must meet the minimum specification below.

Contact Rating: 10A @ 120VAC, 6A @ 250VAC, 1/4 HP.

3. A Wiring Diagram is provided at the end of this instruction manual. All wiring should be made using minimum 18-gauge wire.

For installations with 220VAC motor, the equivalent wire colors for the motor are as follow:

120VAC motor	220VAC motor	Description
<i>Green</i>	<i>Yellow/Green</i>	<i>Ground</i>
<i>White</i>	<i>Blue</i>	<i>Neutral</i>
<i>Red</i>	<i>Black</i>	<i>Screen up direction</i>
<i>Black</i>	<i>Brown</i>	<i>Screen down direction</i>

For any 220VAC installation that equipped with a 120VAC motor, a step down transformer is provided for this application. Simply follow the Wiring Diagram and connect the transformer as shown. Be sure to place the transformer in a safe and well-ventilated location.

OPERATIONS

A -Motor equipped with push button limit switches

Refer to Figure 2, the Upper and Lower limit switches are built-in motor limit switches and have been preset at the factory. Remove the yellow protective cap and check that both the yellow and white buttons are out. The white button controls the lower limit of the screen. The yellow button controls the upper limit of the screen.

Each of the LECTRIC II and IV screens has a trap door to completely hide the screen when not in use. A Door Close Limit switch has been wired in series with the motor upper limit switch to shut off the motor when the trap door is fully closed. The motor upper limit switch has been set to shut off the motor just past the point when the trap door is fully closed. **DO NOT SET THE MOTOR UPPER LIMIT SWITCH.**

It is important that the first cycle up and down of the screen be performed under control of an attendant. The motor limit switches might have become disengaged during shipping and may not stop the screen automatically resulting in damage to the screen.

- 1 - Send the screen down to its lower limit, observing the screen roller as it unwraps the screen fabric. The screen should stop at the correct amount of leader specified or approximately 12 inches for standard leader. If the screen stops as mentioned, skip to step 3.

- 2 - If the screen continues to operate past the conditions mentioned, stop the screen and do not let it go into reverse wrapping. Send the screen up and stop when the leader disappears into the roller. Send the screen down and stop at the amount of leader desired. Press the white button to set it in, press again to bring it out. The screen lower limit is defined.
- 3 - Send the screen up, observing the screen fabric as it being taken up by the screen roller. The trap door should shut off the motor when the door is fully closed. Open the service door and touch the screen roller near the motor side and check if the motor is still running. If the motor is off, close the service door and skip to step 5.
- 4 - If the motor is still running when the trap door is fully closed, send the screen down and stop when the trap door is fully open. Bend or adjust the lever of the Door Close Limit switch downward. This adjustment allows the trap door to trip the Door Close Limit switch (see Figure 3) sooner and shuts off the motor. Repeat steps 3 and 4 until satisfied.
- 5 - Test run the screen up and down again to ensure proper operations, replace the yellow protective cap of the limit switches.

NOTE: The motor is protected by a Thermal Overload device! Operate the screen too often without allowing sufficient off time could result in the thermal overload becoming engaged. If this occurs, the motor will shut down for cooling off until enough time has passed for it to return to normal operating temperature (approximately 15 minutes).

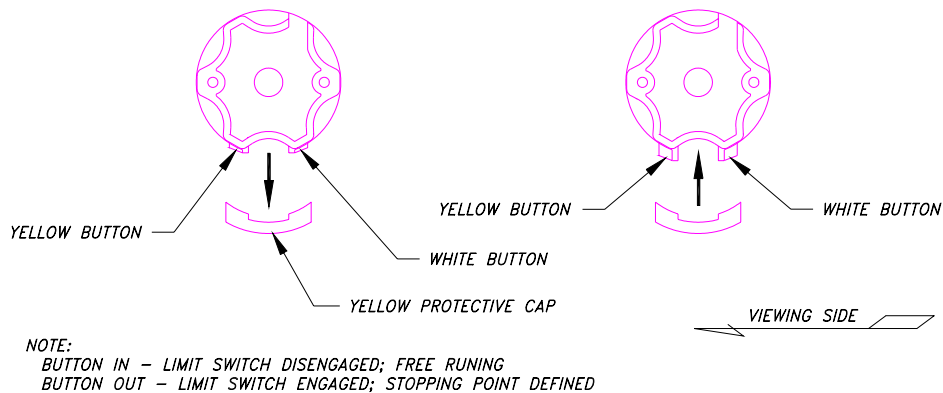


Figure 2

B - Motor equipped with hex socket limit switches

Any LECTRIC II or IV screen has motor equipped with hex socket limit switches need not concern about the limit switches become reset during shipping and handling. Screen is ready for operation once the electrical connections are complete. As shown in Figure 3, the white hex socket controls the screen's lower limit. The yellow hex socket controls the screen's upper limit.

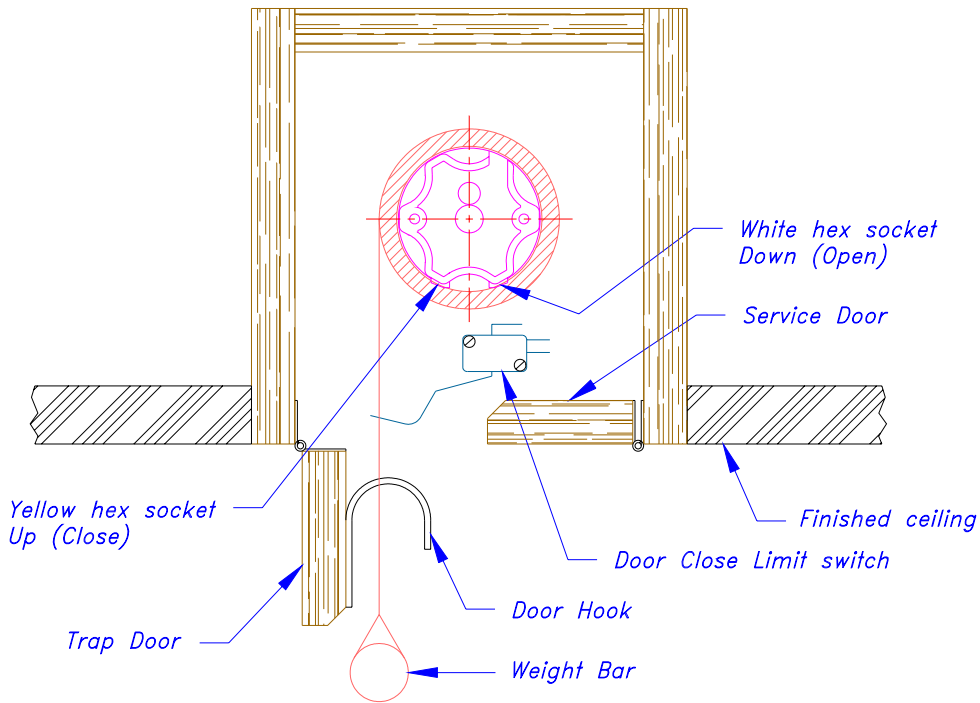


Figure 3
Left end view of Lectric II and IV

As mentioned in part A above, the trap door shuts off the motor when it becomes fully closed. Refer to part A, step 4, if the motor is still running when the trap door is fully closed.