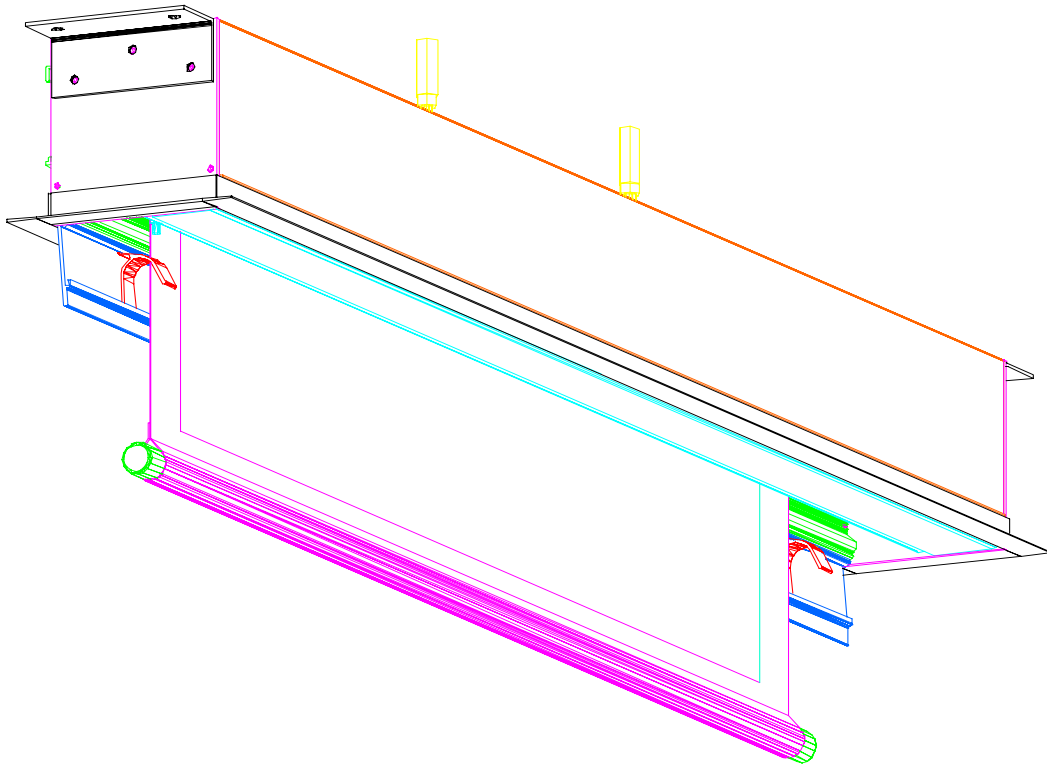


Installation Instructions

HOME THEATER SERIES

VISION XTC

FLUSH CEILING MOUNT SCREENS



07/20/99
INSTL-XTC_B

IMPORTANT SAFETY INSTRUCTIONS

Basic safety precautions should always be followed; including the following:

- ♣ Read and understand all instructions before proceeding with the installation and operations.
- ♣ VISION XTC meets requirement for fire-resistant and low smoke-producing characteristics suitable for operation in a building's environmental air space, such as above suspended ceilings, in accordance with Section 300-22 (C) of the national Electric Code, ANSI/NFPA 70, and sections 2-128, 12-010(3) and 12-100 of the Canadian Electric Code, Part 1, CSAC22.1.
- ♣ Be certain that the supporting structure is sound and capable of carrying the weight as required.
- ♣ Seek qualified electricians to perform electrical requirements.
- ♣ This permanently connected projection screen must be protected by a fuse or circuit breaker. Make sure that there is a readily disconnect device incorporated on the building installation wiring.
- ♣ Obtain proper lifting mechanism to raise and hold the unit steady for installation.
- ♣ Plan ahead so the installation can go smoothly and efficiently.



IMPORTANT WARNINGS AND CAUTIONS!



WARNING: A WARNING ALERTS THE POSSIBILITY OF SERIOUS INJURY OR DEATH IF THE INSTRUCTIONS ARE NOT FOLLOWED.



CAUTION: A CAUTION ALERTS THE POSSIBILITY OF DAMAGE OR DESTRUCTION OF EQUIPMENT IF THE INSTRUCTIONS ARE NOT FOLLOWED.



WARNING: FAILURE TO READ, THOROUGHLY UNDERSTAND, AND FOLLOW ALL INSTRUCTIONS CAN RESULT IN SERIOUS PERSONAL INJURY, DAMAGE TO EQUIPMENT, OR VOIDING OF FACTORY WARRANTY! IT IS THE INSTALLER'S RESPONSIBILITY TO MAKE SURE ALL COMPONENTS ARE PROPERLY ASSEMBLED AND INSTALLED USING THE INSTRUCTIONS PROVIDED.



WARNING: FAILURE TO INSTALL ELECTRICAL REQUIREMENTS ACCORDING TO NATIONAL/LOCAL ELECTRICAL CODES AND REGULATIONS MAY CAUSE PREMATURE FAILURE, FIRE HAZARD, ELECTRICAL SHOCK, UNSAFE PRACTICE AND REVOCATION OF USE.

DISCLAIMER

Vutec Corporation intends to make this manual accurate and complete. However, Vutec makes no claim that the information contained herein covers all details, conditions or variations, nor does it provide for every possible contingency in connection with the installation for use of this product. The information contained in this document is subject to change without notice. Vutec makes no representation of warranty, expressed or implied, regarding the information contained herein. Vutec assumes no responsibility for accuracy, completeness or sufficiency of the information contained in this document.

PRE-INSTALLATION

- 1) Carefully cut and remove packing materials.
- 2) Carefully unpack and inspect the unit for sign of damages.
- 3) Be sure to recheck and measure all pertinent dimensions before installation.
- 4) Most basic tools are required for installation.

SAVE THESE INSTRUCTIONS

VISION XTC

STANDARD (shown) and TAB-TENSIONED screens

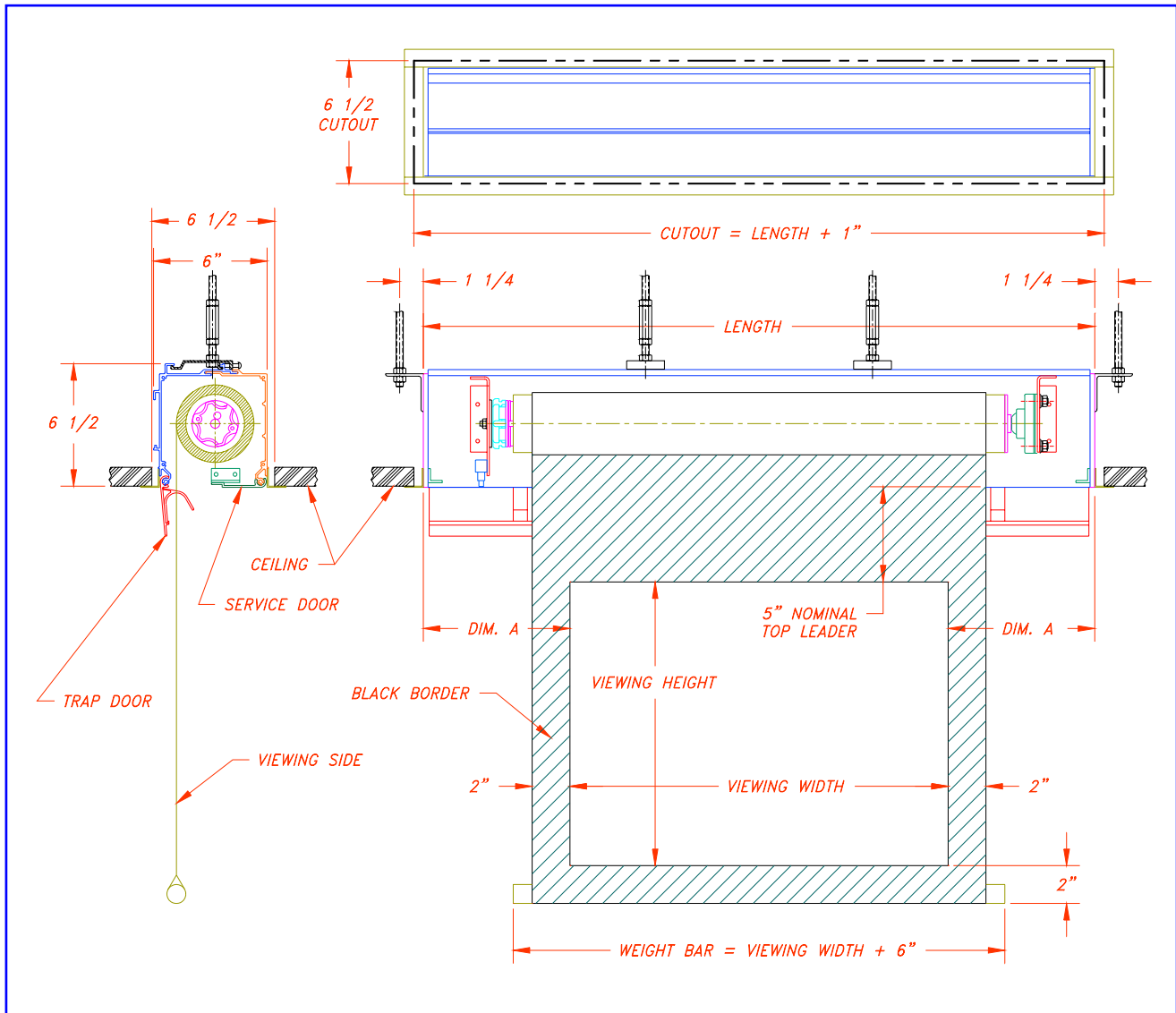


Figure 1

SCREEN TYPE	LENGTH	DIM. A
STANDARD	VIEWING WIDTH + 15 1/2	7 3/4
TAB-TENSIONED	VIEWING WIDTH + 22 1/2	11 1/4



INSTALLATION

The VISION XTC screen is designed for flush ceiling mounting.

- ♣ *VISION XTC meets requirement for fire-resistant and low smoke-producing characteristics suitable for operation in a building's environmental air space, such as above suspended ceilings, in accordance with Section 300-22 (C) of the national Electric Code, ANSI/NFPA 70, and sections 2-128, 12-010(3) and 12-100 of the Canadian Electric Code, Part 1, CSAC22.1.*

Installation requires six 3/8 inch diameter threaded rods for hanging (not supplied). Two threaded rods are for each end bracket and two for the middle-hanging brackets. See Drawing 1 at the end of this manual.

There are tables with weight information for some typical screen sizes. The supporting structure for the screen must be capable of carrying a minimum of four times the weight of the screen. It is recommended that safety cables be added to the end brackets for additional security.

The screen comes with four ceiling flange kits to be added to the screen case on site. They are marked for matching each side of the screen case. Be sure to attach the flanges before hanging the screen.

The ceiling cutout for the screen shown in Figure 1 requires removal of an end bracket in order to fit the screen case. The two middle-hanging brackets must be installed to keep the ceiling flanges tight against the ceiling's bottom.

The VISION XTC screen has a trap door to hide the screen when not in use. For the trap door to operate properly, the screen must hang square and plumb to the ground. Improper hanging may cause erratic operation of the trap door.

*Unlike the majority of the screens on the market, the VISION XTC screens do not have an opening slot for dust and particles to attack the screen material during construction and hanging of the screen case. The need for removing the screen roller for safe and clean storage is not recommended. However, if it is necessary for the screen to be removed, section **SCREEN REMOVAL** describes the procedure.*

ELECTRICAL CONNECTIONS

1. Be certain the power is **OFF** before making electrical connections. All wiring and connections are required to comply with National and/or Local electrical codes.
2. The VISION XTC screen operates on 120VAC, 60Hz power. Control of the screen is usually by a SPDT Paddle switch with center "OFF" position (see Figure 2). Optionally, the screen can also be operated by an IR (Infrared), a RF (Radio Frequency) remote control, or a relay-triggering device. Please consult the dealer for details.
3. A wiring diagram is provided at the end of this manual. All wiring should be made using minimum 18-gauge wire.

For installation with 220VAC motor, the wires 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>

4. The four motor wires are placed outside of the screen case for quick hook up to the wall switch (supplied) or other controls. Connect the motor wires to the wall switch wires for first operation.
5. Turn on the screen down, the trap door is opens as the screen comes down. Stop when the screen is about 6 to 10 inches down.
6. Remove two screws holding the service door. Open the service door for full access to the motor area.

7. **Turn OFF the power.** Bring the motor wires inside of the screen case. Make connections to proper control devices as required and be sure all wires are secure. Close the service door and reinstall the two screws.

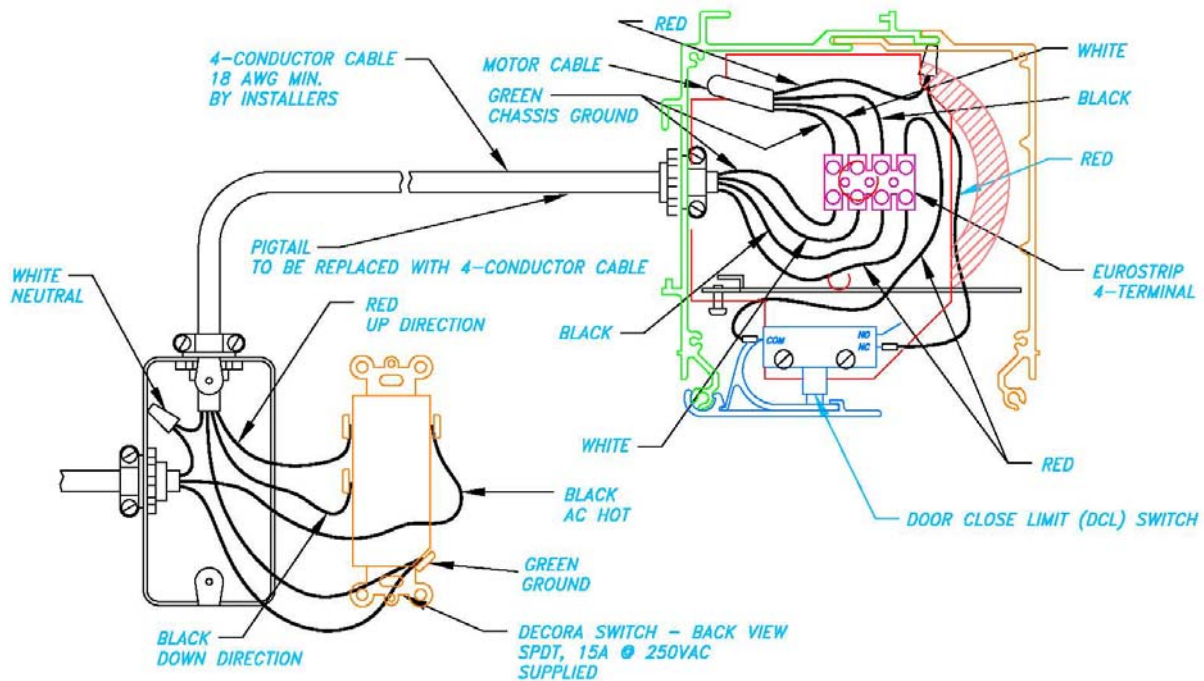


Figure 2

8. Test run the screen for proper operation.

FIRST OPERATION

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.

If the screen stop positions need to change, refer to **STOP POSITION ADJUSTMENTS** included with this manual.

NOTE: The motor is protected by a thermal overload device. Operating the screen without allowing sufficient off time could result in the thermal overload shut down. If this occurs, allow the motor to cool off (approximately 10 minutes) before resume normal operation.

SCREEN REMOVAL

The VISION XTC screens do not have an open slot for dust and particles to blow onto the screen fabric. However, if the screen fabric must be removed, the following steps apply:

1. Do not attach ceiling flanges to the screen case. Support the screen by the two end brackets (see Drawing 2) and raise it to a comfortable working level. Screens including 144" diagonal and up may need center support to prevent sagging. Be sure the screen and its supports are safe and secure.
2. Referring to the wiring diagram, connect the motor wires to the wall switch (supplied).

3. Run the screen down approximately 6 inches and stop. Disconnect the motor wires and the switch wires.
4. Remove the two mounting screws holding the service door. Both doors are now open. Loosen the Romex connector (see Figure 3) and pull the motor wires inside the screen case. Disconnect the motor red wire from the Normally Closed (NC) of the Door Close Limit switch.
5. Referring to Drawing 3, at the idler end, remove the hex nuts of the idler bearing assembly.
6. Support the screen roller while removing the two hex bolts of the idler bearing assembly.
7. Lower the screen roller and the idler bearing assembly. The motor will automatically follow the screen roller out of its bracket. Do not allow the motor to slip out of the screen roller tube that may cause the screen's stop settings to change (step 11).
8. Store the screen in a clean and protected location for later use.
9. Install the screen case and be sure it is square and plumb to the ground. Improper installation may cause erratic operation of the trap door.
10. Installing the screen roller in its case is the reversal of removal. **The motor limit switches** (Yellow and White hex sockets) **must point toward the trap door as shown in Figure 3.**
11. The Door Close Limit switch controls the screen up (retracted) position. No setting is required. The screen down might have changed due to screen removal. Refer to **STOP POSITION ADJUSTMENTS** for setting instructions.

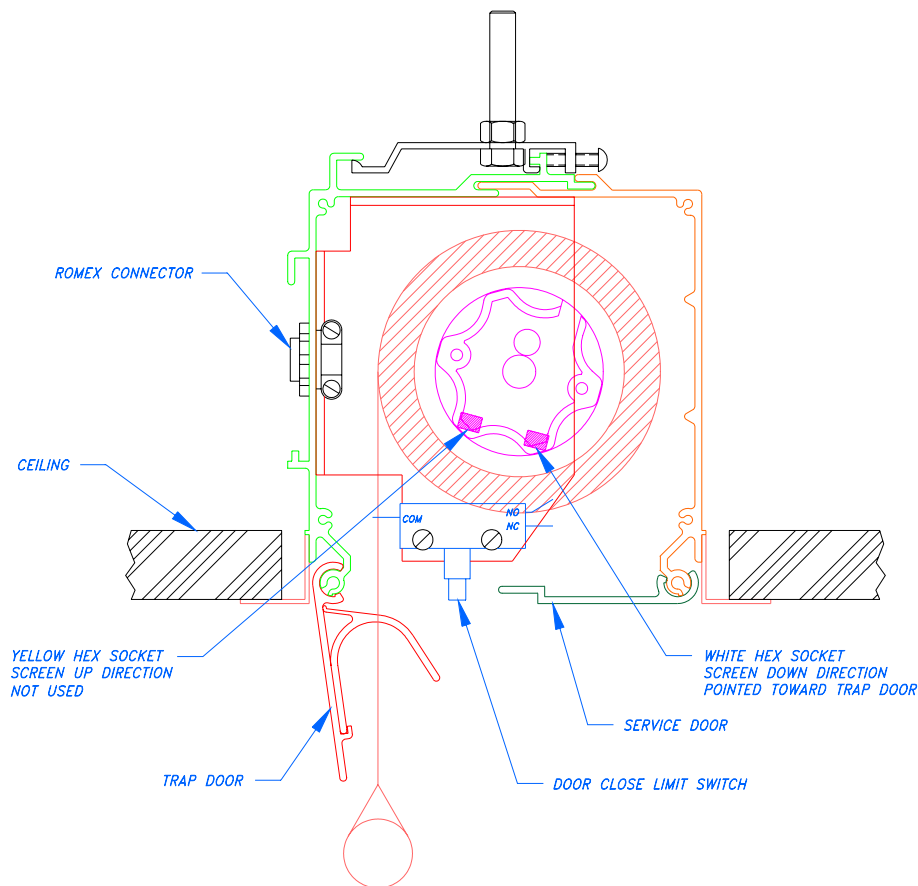


Figure 2