⚠ Caution

① Read instructions thoroughly before proceeding; keep them for future reference. Follow instructions carefully. Installation contrary to instructions invalidates warranty. Care in both mounting and correct operation will mean long and satisfactory service from your Draper Eclipse Screen Masking System.

② Eclipse should be accessible for complete removal should fabric become damaged or should other service be required.

③ Eclipse should be installed so horizontal members are level, vertical members are plumb, and corners are square.

④ Nothing should be fastened to the Eclipse's hardware or fabric.

⑤ Operating switch (es) packed separately in carton. Do not discard with packing material.

⑥ Motor operates on 110-120V AC, 60 hz. current.

NOTE: Unit has been assembled, tested, and thoroughly inspected at factory prior to being disassembled for shipment.

Planning

Through these instructions, your Eclipse will be assembled on the floor, face down, then lifted into place around the screen and attached to the wall. The drawing at right shows the positional relationship between the screen and the Eclipse. Plan carefully where the screen is to be placed.

Determine now how the motor's power cord is to be routed once the unit is lifted into place (motor will be at viewer's upper right), how the unit is to be controlled, and where the control switch (es), if any, will be located. Refer ahead to the **Electrical Connections** section, the **Operation** section, and the last page of wiring diagrams for more specific information on control options and their wiring requirements. Make the necessary arrangements for this now.

Limit switch adjusters are located through the top of the head box, near the right end. Bear in mind that recessing the Eclipse into a wall or between cabinets or shelves without adequate surrounding space will render these adjusters inaccessible, and is not recommended.

Screen Installation

Follow the instructions for mounting the screen first.

– Clarions include assembly instructions and mount with Z-Clips;
– Cineperm frames also include assembly instructions, and are simply drilled through and screwed to the wall.

Please Note—Both models, Clarion and Cineperm, are spaced away from the wall using six $1^1/8$" wood spacers included with the Eclipse: 2 for both top and bottom; 1 at each side. Refer to the drawing at right.

Electrical Connections

Motor operates on 110-120V AC, 60 Hz. current. Motor is located at the right end of the upper head box. Motor pigtail consists of red, black, white, and green wire leads, per attached wiring diagram. Wall electrical box should be installed so as to be fully concealed by headbox after installation. Eclipse is shipped with control switch (es) fully boxed.

Wire to connect screen to switch (es) and switch (es) to power supply should be furnished by installer. Connections should be made in accordance with attached wiring diagram, and wiring should comply with national and local electrical codes.

All operating switches should be "off" before power is connected.

Adjustments

① Adjust limit switches so the masking can be completely drawn or retracted without the bottom edge going beyond the fabric retention guides located at the upper end of each side channel.

A. Fully depress both limit switch push buttons, then operate switch to make sure system works properly.
B. Raise to desired "up" stop position.
C. Set upper limit by depressing and releasing the proper push button.
D. Lower to desired "down" stop position.
E. Set lower limit by depressing and releasing the proper push button.

Push Buttons
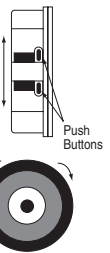
Please Note: Be sure all switches are in "off" position before adjusting limit switches. At no time should masking be unrolled enough to expose any part of roller.

Operation

When the Eclipse is first operated, **be cautious!** Cycle up and down several times to confirm satisfactory operation.

110-120V AC SINGLE STATION CONTROL—3-position UP-OFF-DOWN switch permits operation to be stopped at any point. Factory adjusted limit switches automatically stop screen when fully down or fully up.

110-120V AC MULTIPLE STATION CONTROL—Switches are similar in appearance to 110-120V AC Single Station Control. Screen stops when switch is released and may be restarted in either direction. Factory adjusted limit switches stop screen automatically when fully up or fully down.

24V CONTROL—Three-button UP-STOP-DOWN switches stop at any point desired, operate in any sequence. Factory adjusted limit switches automatically stop screen when fully up or fully down. Installer should incorporate an all-pole disconnect in the fixed wiring.

110-120V AC & 12V VIDEO INTERFACE CONTROL—Allows unit to be controlled by trigger signal—when the signal comes on, the unit descends automatically. Two versions: Model VIC115 integrates screen operation with a DRAPER video projector lift or a video projector or tuner with a 110-120V AC switched outlet. Model VIC12 interfaces with a 12V switched outlet. Both available with an override switch (VIC–OS), permitting independent operation.

KEY OPERATED SWITCHING—Two kinds of key-operated switches are optionally available with this unit. ① The key-operated power supply switch controls power to the screen and switches. When it is "off", the switches will not operate screen. Key may be removed from the switch in either "on" or "off" position. ② A three-position key switch permits the screen to be operated directly by key. In this case, the screen's operator must always have a key.

RS232/ETHERNET—Serial communication and network communication optionally available with wall switches or RF or IR remote.

Mounting feet shown INWARD

Side cover length = frame height + 2B

Screen frame height

Clarion or Cineperm frame spaced out from wall $1^1/8$"

$1^1/8$" wood spacers six places

	A	B
Clarion	1"	4¼"
Cineperm	¾"	4"

Side covers

Screen frame width
Frame width + 2A to INSIDE of side rails

DRAPER®

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www.draperinc.com ▮ fax 765-987-7142

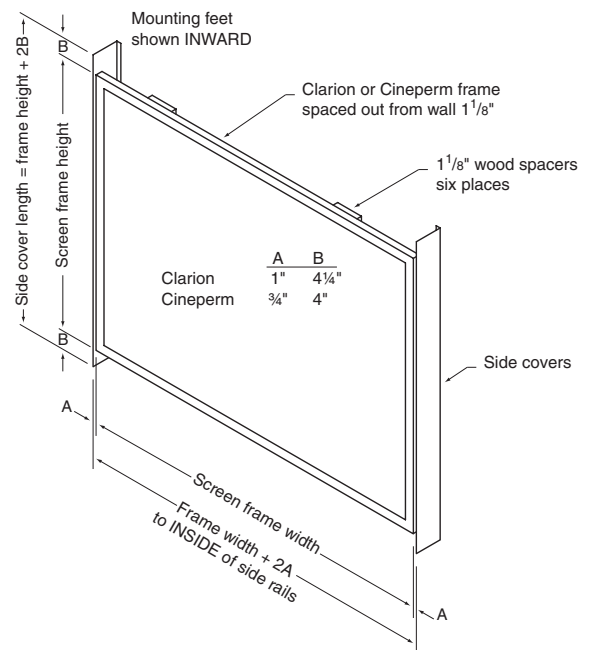*If you encounter any difficulties installing or servicing your Eclipse Screen Masking System, call your Draper dealer, or contact Draper at (765) 987-7999, or fax (765) 987-7142.*
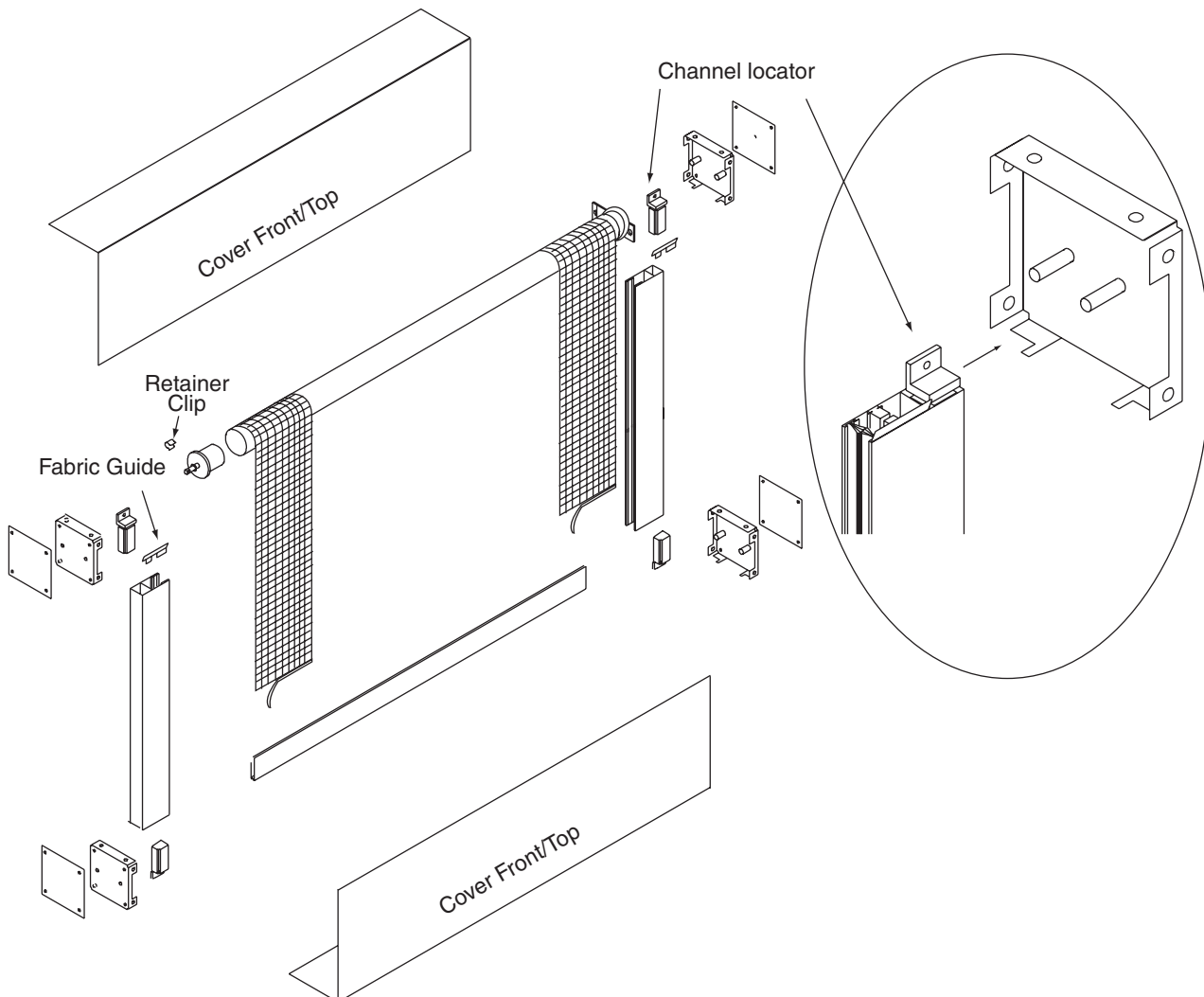
Eclipse/H Assembly

① Arrange all parts on the floor to ascertain that all parts are present (see figure below). Eclipse will be assembled on the floor, face down, then lifted into place around the screen and attached to the wall. You should have:

Two headboxes—1 with motorized roller (goes on top) and 1 empty (goes on bottom);

Two side channels;

Two side covers;

One control switch.

② Determine how the motor's power cord is to be routed once the unit is mounted, and where the switch will be located. Make necessary arrangements.

③ Determine whether you want the feet of the side covers to mount inward or outward.

If they are to mount inward, they will need to be located on the wall with respect to the screen, and attached to the wall using appropriate hardware.

If they are to mount outward, they will need to be located on the wall and holes drilled, but do not attach yet. Instead, attach them to the side channels using pre-drilled holes.

④ Each headbox has a plastic channel locator attached to each end. Slide the channels into their respective positions on these plastic channel locators. The pieces are color-coded to help with this step.

⑤ If the side covers have been attached to the side channels, you can now also attach them to the headboxes, using the pre-drilled holes. This will hold the entire assembly together.

⑥ If the side covers have already been mounted to the wall, it is wise to add a screw through the side channels into the 4 plastic channel locators.

⑦ The assembly is now ready to lift into place. Keep in mind the routing of the power cord as this step is performed.

—**With inward facing feet**, and the side covers already mounted to the wall in step 3, lift the assembly up into place between the side covers and attach to the side covers through the pre-drilled holes.

—**With outward facing feet**, lift the assembly up and place over the holes drilled in step 3. Attach to the wall using appropriate hardware.

⑧ Finish the necessary electrical connections (see "Electrical Connections," page 1, and wiring diagram on back page) and test the unit's operation.

Mounting the Eclipse

① The assembly is now ready to lift into place. Keep in mind the routing of the motor's power cord as this step is performed. With the side covers already mounted to the wall, lift the assembly into place and attach to the side covers through the pre-drilled holes.

② Finish the necessary electrical connections and test the unit's operation.

Channel locator

Cover Front/Top

Retainer Clip

Fabric Guide

Cover Front/Top

Eclipse/V Assembly

① The Eclipse comes partially assembled and must be partially disassembled before it can be mounted to the wall. Once the screen is installed, place the Eclipse on the floor in front of the screen so it can eventually be lifted into place on the wall, encompassing the screen. Refer to the drawing below, and make sure you can find these components:

One head box containing the motorized roller (goes on top);

One head box containing the spring roller (goes on bottom);

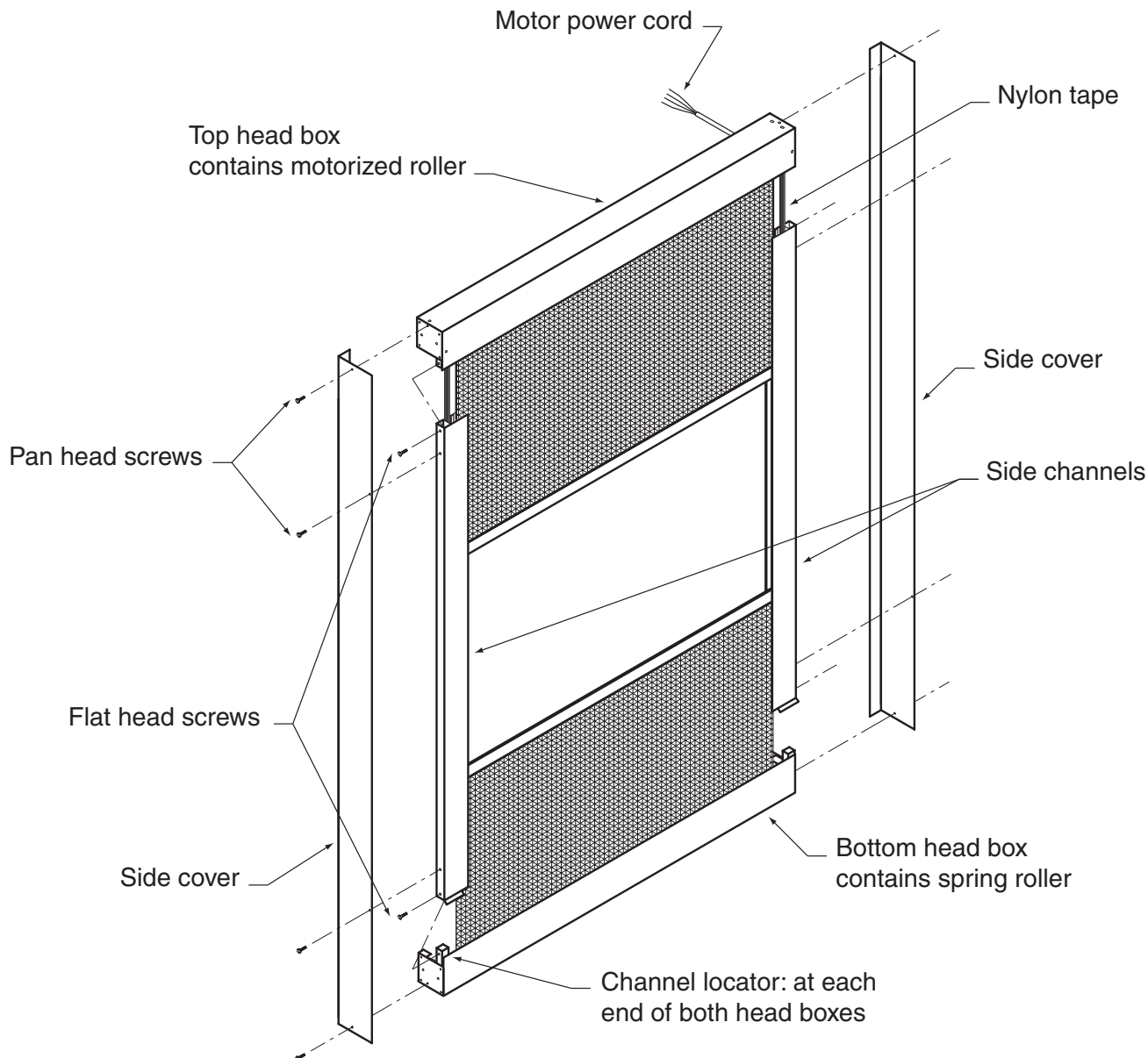Two side channels;

Two side covers;

Control (s).

② Lightly mark the wall on either side of the screen where the Eclipse side covers will be mounted. ***NOTE: This takes two people.*** Temporarily position the Eclipse over the screen where it will eventually be placed. Refer to the drawing below, and block it up to attain the desired position. Using the side covers as a guide, mark the wall.

③ Remove both side covers from the Eclipse, and mount them to the wall according to the marks just made. Remove the pan head screws attaching the side covers to the side channels and the head boxes.

The mounting feet of the side covers need to be located on the wall, holes drilled, and securely attached to the wall using appropriate hardware.

④ Each head box has a plastic channel locator attached to each end, which engages the side channel. Notice that the four channel locators are not totally slid into the side channels, but are blocked by a flat head screw. Slide the head box away from the side channel enough to back out the flat head screw, then reinsert the channel locator into the side channel. Re-install the four flat head screws through pre-drilled holes in the Side channels.

Please Note—The black nylon tape is attached to the slat bar on the spring roller fabric. The tapes will offer some resistance during this step, since you are pulling against the spring roller, but this is normal.

Mounting the Eclipse

① The assembly is now ready to lift into place. Keep in mind the routing of the motor's power cord as this step is performed. With the side covers already mounted to the wall, lift the assembly into place and attach to the side covers using the pre-drilled holes.

② Finish the necessary electrical connections and test the unit's operation.

Motor power cord

Nylon tape

Top head box contains motorized roller

Side cover

Pan head screws

Side channels

Flat head screws

Side cover

Bottom head box contains spring roller

Channel locator: at each end of both head boxes

Wiring Diagrams

Single Station Control

Motor Power Cord
Right End of Eclipse

White (Common)
Black (Down)
Red (Up)
Green (Ground)

Red
Blue
Black

SPDT Center Off
Control Switch
(SS-1R Shown)

Dashed Wiring By Electrician

To 110-120v Line

Video Interface Control

5"   4"

VIC-6 or
VIC-12

3"

To 6 or 12 V DC
switched outlet

Brown

Orange

To 115 V AC
standard outlet

White--neutral
to motor's white wire

Green--ground

Red--Down
to motor's
Black wire

Blue--Up
to motor's
Red wire

5"   4"

VIC-15

3"

To 115 V AC
standard outlet
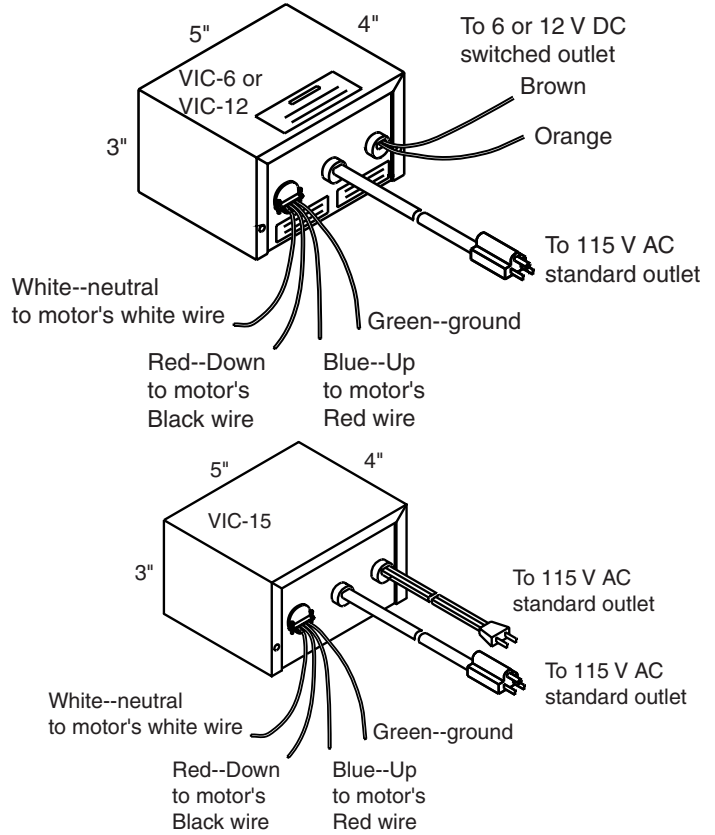
To 115 V AC
standard outlet

White--neutral
to motor's white wire

Green--ground

Red--Down
to motor's
Black wire

Blue--Up
to motor's
Red wire

Low Voltage (& Wireless) Control Wiring Diagram

Motor Power Cord
Right End of Eclipse

White-Common to Eclipse & 110-120V AC Neutral
Red-to Eclipse (directional)
Brown-to Eclipse (directional)
Yellow-to 110-120V AC-Hot
Black-to 110-120V AC-Hot
Green(Ground)

White (Common)
Red (Up)
Black (Down)
Green/Yellow
(Chassis Ground)

Dashed wiring by electrician
Low voltage wiring by others

Eye Port for IR Eye, RF Receiver or LED
Wall Switch. For more than one of
these, a splitter is required.

3 Button Wall Switch
DOWN - Black
COM - White
UP - Red

Aux Port for connecting additional LVC-III
modules (up to six total can be linked-
connect from Aux to Eye).

To
110-120V
Line

Location of key
operated on-off
switch if furnished

Control
Switches
24v DC