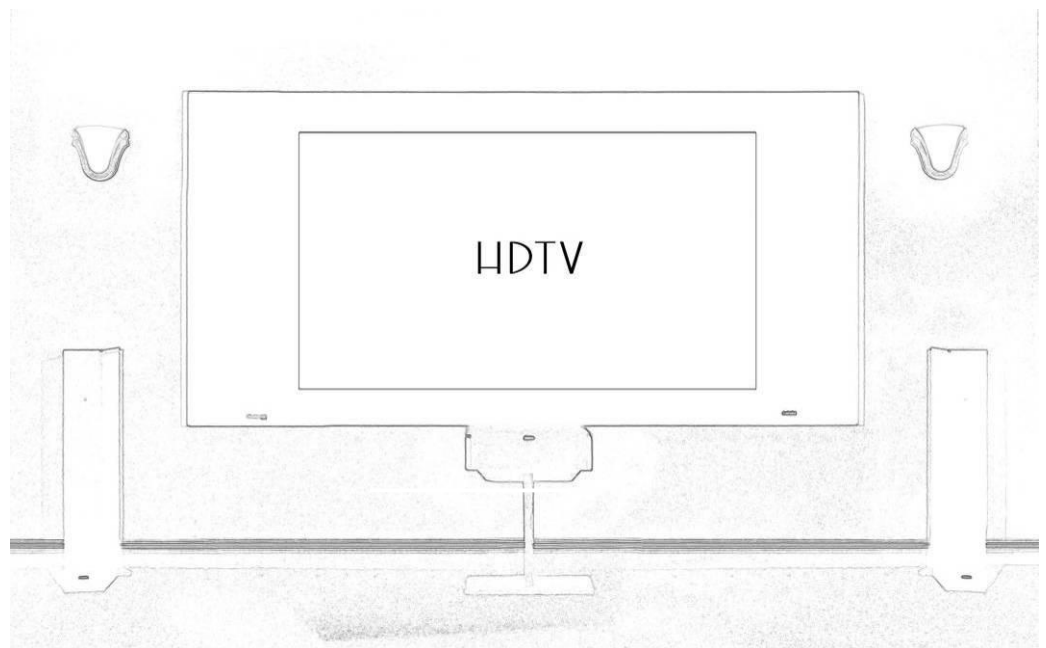
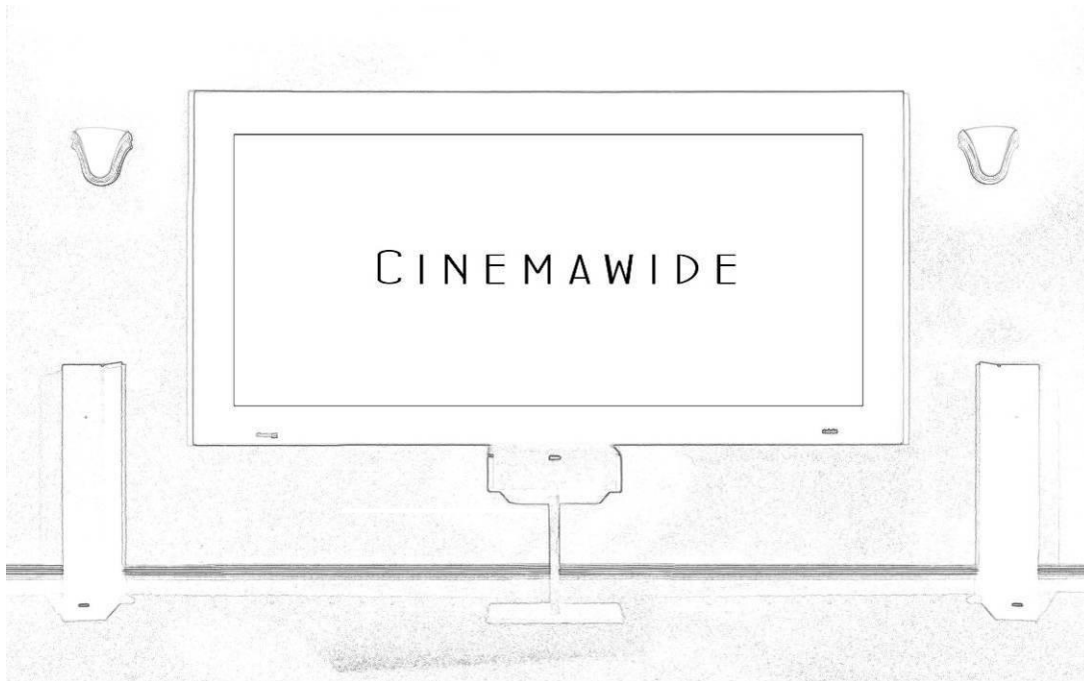




Masquerade™ CIH Masking System

Owner's Manual



PARTS LIST

- A.** Top structure with pulleys and cables
- B.** Bottom structure with pulleys, cables, and control boards
- C.** Left and Right motor assemblies
- D.** Two short side-fascia members
- E.** Eight #5/16-18 nuts
- F.** Four #10-32 nuts
- G.** Wall bracket
- H.** Wood screws
- I.** Plastic shims
- J.** Drywall anchors, screws and washers
- K.** IR wireless Remote Control
(2 AAA batteries included)
- L.** Installation and instruction manual

TOOLS SUPPLIED

- 1. 1/2" open-end wrench
- 2. Pocket flat-head screwdriver

TOOLS REQUIRED

- 1. #2 Philips Head Screwdriver
- 2. Socket Driver, 1/2" and 3/8" sockets with extension
- 3. Level
- 4. Carpenter's Square
- 5. Pencil
- 6. Measuring Tape

OPTIONAL TOOLS

- 1. Power screwdriver or variable speed drill

Part 1: Unpacking your Masquerade CIH™

IMPORTANT NOTE: *We strongly recommend you retain ALL parts and need to move your Masquerade masking system to another home.*

Step 1 – Remove Phillips head screws from ends of crate, cut strapping tape, and remove top of crate. Remove remaining screws and lay crate sides down flat (Figure 1). Open protective plastic sheeting.



Figure 1

Step 2 - Remove Phillips head screws from the ends of white fiberboard support frames (Figure 2) and remove foam block(s) from center. Carefully lift short fascia members [part D] out of crate. Turn upside down and use a 1/2" socket to remove bolts from fiberboard support frames and set short fascia members aside in a safe place. Be careful with the fascia pieces so as not to damage the Black Hole® trim. Remove wall bracket [part G], remote, and hardware pack from inside long frame members.

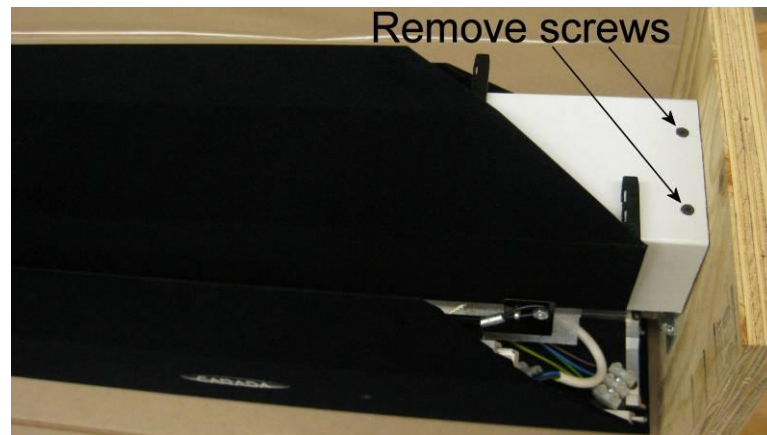


Figure 2



If you purchased a Carada MMS Series projection screen (custom designed to fit with your Masquerade Masking System) please stop here and go to the instructions for mounting your screen FIRST. Once you have the MMS screen installed, come back to these instructions to continue the Masquerade installation.

If you already have a Carada Criterion Series or Precision Series, or another brand of projection screen mounted on your wall, please continue here to Step 3.

Step 3 – Using 1/2" socket, remove three bolts from motor brackets at each end of structure (Figure 3). Then remove bolts from the motor brackets and wood block in the center. (Figure 4). Carefully lift motor assemblies [part C] out and set aside.

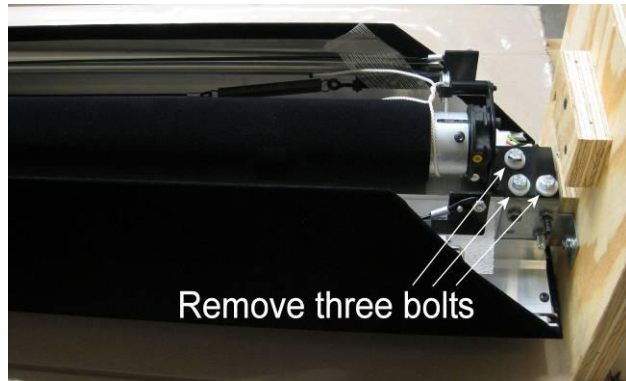


Figure 3

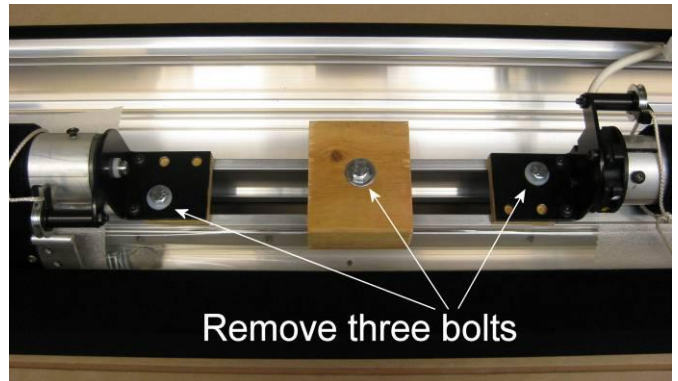


Figure 4

Step 4 – Using 1/2" socket, remove nuts from all four unpainted motor-mount shipping brackets (Figure 5). Starting at either end, carefully pull two main structures away from each other about 4+ to release center-shipping-bolt. Remove unpainted motor-mount brackets and store with other shipping materials. Do NOT remove black bolts protruding through each end of aluminum substructures. (Figure 6)



Figure 5

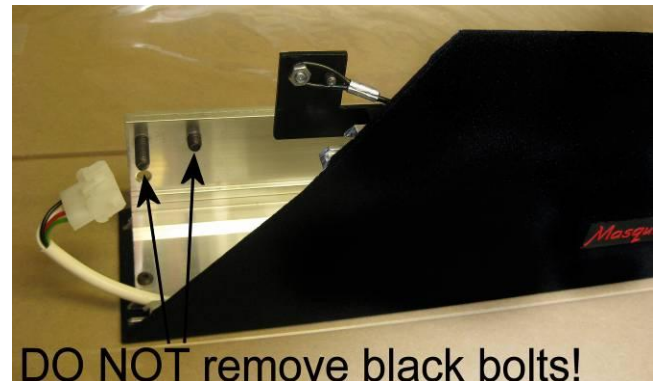


Figure 6

Step 5 - Place all packaging materials back in the crate and reattach crate to plywood end-caps with the Philips head screws. Store crate in a dry storage area in case it is needed in the future.

Part 2: Attaching the wall bracket to the wall

Pictures and instructions assume a sheetrock wall with studs behind on 16" centers. Adjustments may have to be made for other mounting surfaces or wall designs. For questions or concerns please email or call Carada for installation assistance.



If you purchased a Carada MMS Series projection screen (custom designed to fit with your Masquerade Masking System) you should have already installed the MMS screen AND the wall bracket for the MASQUERADE according to the instructions that came with your projection screen. If so, proceed to PART 3 – Mounting the Masquerade – Step 10

You should now have your projection screen installed on the wall. If you have a projection screen OTHER than a Carada MMS, please proceed to Step 6.

Step 6 - The BOTTOM of the wall bracket [part G] should be mounted $4 \frac{9}{16}$ " above the top of the **VIEWING SURFACE** of your screen as pictured in Figure 7. You will need to subtract the width of your screen's frame members from $4 \frac{9}{16}$ " in order to determine the wall bracket mounting position. For example, if you have a projection screen with a top frame member that is $3 \frac{1}{4}$ " wide (like our Criterion Series frame, Stewart Filmscreen's Luxus Deluxe frame, or Da-Lite's Cinema Contour frame), then the BOTTOM of the wall bracket should be mounted $1 \frac{5}{16}$ " above the top of the screen's frame ($4 \frac{9}{16}$ " - $3 \frac{1}{4}$ " = $1 \frac{5}{16}$ "). Once you have computed the correct location, mark this location on your wall with a pencil.

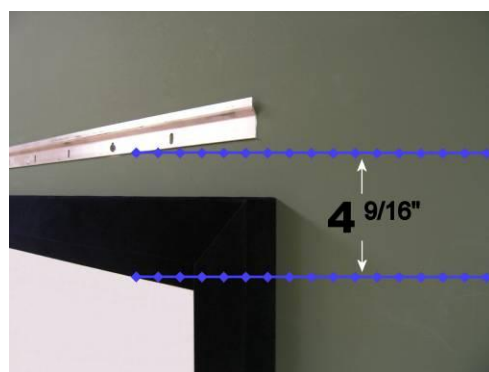


Figure 7

IMPORTANT NOTE: Although having the masking system AND your projection screen perfectly level would be preferable, it is more important to make sure that the masking system **MATCHES** the orientation of your current screen. For example, if your screen is slightly askew in the clockwise direction, then your masking system should be slightly askew in the same direction, to the same degree, so that the opening of the masking system, and the masks, will perfectly frame your viewing surface. So when figuring the proper distance from your screen's frame to the bottom of the wall bracket, carefully measure that distance in **SEVERAL** places across the length of the bracket to ensure that it is perfectly parallel with your screen's frame and viewing surface.

Step 7 . The wall bracket has slotted holes 4" apart so you should be able to align the bracket with the studs whether your studs are on 16" or 24" centers. Center the bracket horizontally, then move it left or right as necessary to line the holes up with the studs in your wall and mark where they are.

Step 8 . It is very common for walls in homes to not be truly flat; they can be convex or concave in multiple locations across the mounting area. Find any high or low spots on your wall by holding a bracket horizontally on its bottom edge perpendicular to the wall using it as a straight edge along the pencil mark you made in Step 6. Mark the high spot(s) with a pencil. Then attach the bracket to the wall directly over the two highest spots (or in the middle if there is only one hump protruding outward on your wall). To compensate for this irregular surface, use the included plastic shims [part I] to fill in the low-spots behind the bracket. Use the appropriate shim thickness to keep the bracket flat but firmly secured to the wall. Shims of different thicknesses can be combined if necessary to fill low spots.

Step 9 . Finally, finish attaching the bracket to the wall with the supplied wood screws [part H] (for other wall-types, please choose an appropriate fastener). Place the screws (or other fastener) in the center of the slot in the bracket so that you can make minor vertical adjustments if necessary.

Part 3: Mounting the Masquerade CIH™

IMPORTANT NOTE: You will build your Carada Masquerade system directly on your wall and AROUND your previously installed projection screen. However, for clarity all installation photos in this manual are shown *without* a projection screen in place.

Step 10 - Hang Top Structure [part A] on wall bracket (Figure 8). The top structure is the long piece with pulleys and cables but WITHOUT logos. Do not tilt the structure out while trying to hook it over the wall bracket. Keep the back of the structure parallel with the wall and drop it straight down over the bracket. Center the Top Structure horizontally over your projection screen and ensure that it is parallel with the screen-frame.

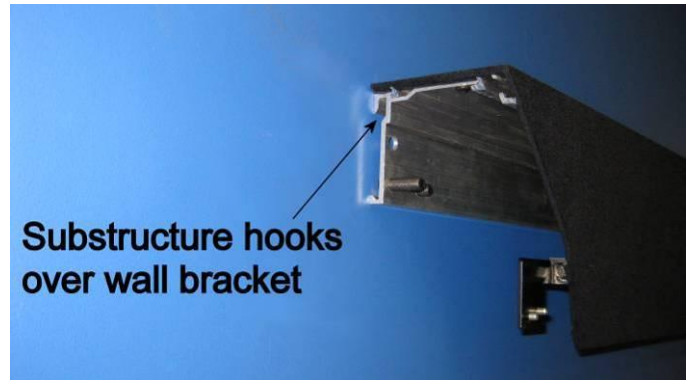


Figure 8



IMPORTANT NOTE: : Make sure Top Structure is fully seated on the wall bracket before you let go. The bottom edge of the Top Structure that sits against the wall should be the SAME distance above your screen-frame at both ends.

Step 11 - Once top Structure is positioned properly, anchor corners of Top Structure to wall with drywall anchors, screws, and washers [part J]. Use other appropriate fasteners (not provided) if your wall construction type is not standard drywall over wood studs. The best way to install the anchor screws is to mark the center of the 5/16+holes directly through the structure (AFTER the structure is perfectly centered and parallel over your screen). After both hole locations are marked on your wall, slide the structure to the right about 2+ to expose the left mark on your wall, and sink the provided drywall anchor into your wall. Then slide the structure about 4+ to the LEFT to expose the mark on the other end of the structure, and sink the drywall anchor into your wall. Then re-center the structure over your screen and use the screws and washers provided to anchor the structure to your wall by running the screws into the drywall anchors.

Step 12 . Motor assemblies [part C] were shipped with a leader-string at each end, routed around the motor tube and through the attached cable-guide bracket (Figure 9). If any of these strings fell off during shipping, simply route the string behind the motor (between the motor tube and the rear aluminum substructure) and through the cable-guide bracket mounted to the pulley. After ensuring all leader-strings are in place, hang Motor units from Top structure by matching two holes on upper motor bracket with black bolts protruding from upper structure. Assemble nuts [part E] onto hanger bolts and tighten with 1/2" socket. Figure 10 shows Top Structure with both motor assemblies installed.



Figure 9



Figure 10

Step 13 . Install Bottom Structure [part B]. This step requires two people as the bottom structure must be held parallel with the Top Structure in order for the bolts to line up with the holes in the lower motor brackets. Gently pull the motor assemblies out from the wall a couple of inches, pull the Bottom Structure up BEHIND the lower motor brackets, and insert black bolts through holes in lower motor brackets from rear. Assemble nuts [part E] on black bolts and tighten with 1/2" socket (Figure 110).



Figure 11



Figure 12

Step 14 . Connect motor cables at both ends of structure (Figure 12). Push cables and connectors inside Bottom Structure.

Step 15 . Using 3/8+socket, remove #10-32 nuts from cable/slide bracket connection to release all four control cables (Figure 13) and allow cables to hang down until needed. Swing right masking bar over into place and line up with machine screw and alignment pin built into upper and lower Slide Brackets. Using 3/8+socket, install #10-32 nut onto machine screw (Figure 14). Repeat for left mask.



Figure 13



Figure 14

Step 16 – Attach control cables to motors. Take the end of one of the leader-strings coming through the cable-guide-bracket attached to the pulley, and tie it firmly to the control cable loop. Be sure to pass cable IN FRONT OF masking bar (Figure 15).

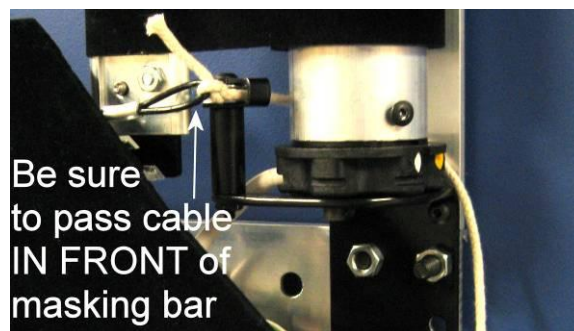


Figure 15

Step 17 – Squeeze cable-loop slightly and feed it through pulley-bracket while pulling other end of string to bring cable around behind motor tube (Figure 16). This step puts the mask-tensioning spring under the appropriate amount of tension, and requires approximately 20 pounds of force to pull the cable around to its anchor screw. Be careful not to pull cable too far past the anchor screw or you could damage the spring. Loop cable around anchor-screw and untie or cut string off of cable (Figure 17). Repeat for other three control cables.

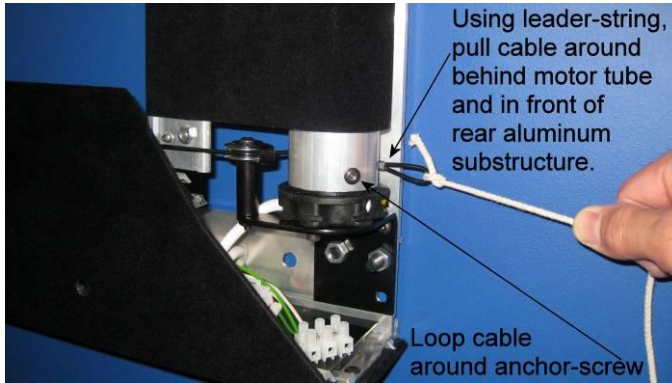


Figure 16

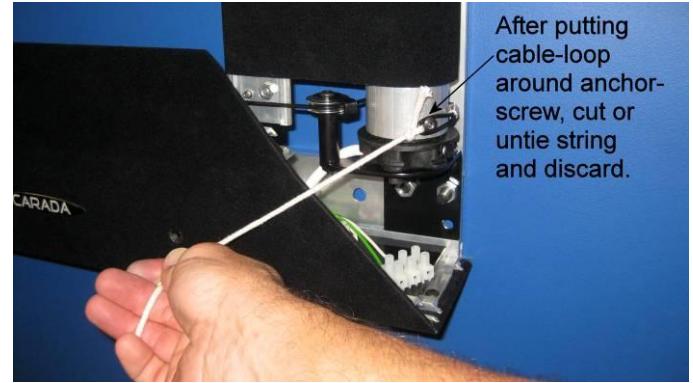


Figure 17

Step 18 – Anchor both corners of bottom structure to wall with drywall anchors, screws, and washers [part J].

Part 4: Wiring the Masquerade™

Step 19 - If you ordered your Masquerade with a factory-installed power cord, simply plug the cord into your nearest 110-120V/60Hz wall outlet (or 240V/50Hz if applicable). If you ordered your Masquerade *without* a factory-installed power cord, refer to *Step 19 (alternate)*.

Step 19 (alternate) - If you ordered your Masquerade without a factory-installed power cord, you will need to attach your power source to the terminal block inside the Masquerade structure. First you must determine EXACTLY where the bottom-right-hand corner of your Masquerade CIH will be located once mounted on your wall. Then use the dimensions in Figure 18 to determine where your power wire needs to exit your wall. Bring your power wire through the hole in the back of the substructure (Figure 19) and connect to terminal block (Figure 20).



WARNING:

Make SURE the power is disconnected at the source before working on the Masquerade control board. Failure to follow this instruction could result in serious injury or death by electrocution. For the greatest safety, we recommend you consult a qualified electrician to hardwire your Masquerade.

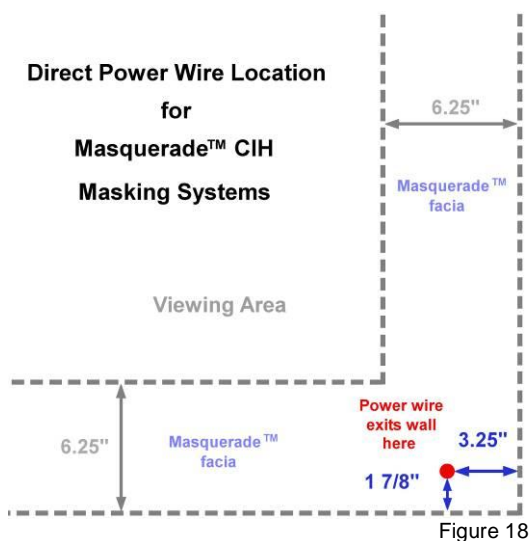


Figure 19

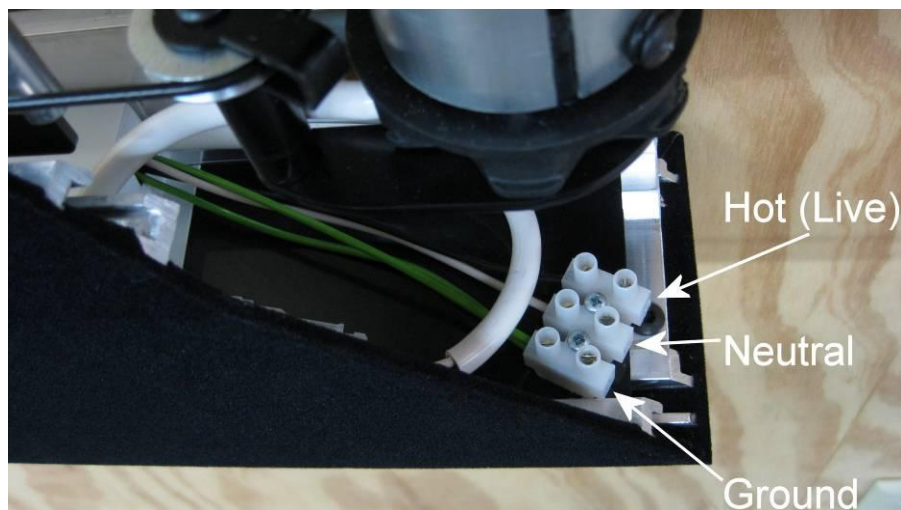


Figure 20

Part 5: Final assembly, installing the side-fascia



Figure 21

Step 20 . Install the RIGHT side fascia (**part D**) by aligning the four pre-installed plastic corner keys into the corresponding channels on the inside of the long fascia members (Figure 21). We recommend you insert the top two corner keys approximately halfway into their channels and then insert the bottom two corner keys. Once all corner keys are started evenly, gently bump the fascia at the top and bottom with the palm of your hand.

Your Masquerade™ masking system is now ready to use!

Using your Masquerade™

Install two (2) AAA batteries into the remote control (included).

The included infrared remote [**part K**] has dedicated buttons for the factory-preset positions of **Wide** (masks fully open), 1.85:1, 16:9, and 4:3, and has several **Jog** buttons that allow you to adjust the masks in finer increments.

The Dual Control **Jog** buttons allow you to move both masks at the same time. The Independent Control **Jog** buttons allow you to move either mask by itself. To move the masks a small amount, push and release one of the Jog buttons quickly for the minimum amount of movement. If you hold a Jog button for an extended period of time, the mask(s) will continue in that direction until the motor reaches the preset limit.



Figure 22

**ENJOY YOUR CARADA
MASQUERADE!**

TECHNICAL SPECIFICATIONS

Power supply	110-120 VAC, 60 Hz (standard) 220-240 VAC, 50 Hz (optional)
Motor power consumption	1 amp draw
Motor noise rating	44db
Control board	Integrated; compact AC motor control module for 115VAC and 230VAC motors UL Listing: E225537 - 20HN
Power cord length	Approximately 7.5 feet (2.286m)
Viewing aspect ratio	Native - 2.35:1/2.37:1/2.39:1/2.40:1 1.85:1 masks deployed to factory-preset position 16:9 masks deployed to factory-preset position 4:3 maximum preset deployment
Input control	Infra-red receiver integrated into the frame Hand-held Infra-red remote control included Two AAA batteries included
Standard dimensions	6.25 inches symmetrical perimeter frame width (15.875cm) 3.75 inches frame depth (8.89cm) Overall dimensions vary according to the size of the unit
Installation clearance requirement	3/4 inch (19.1mm) top clearance 2 inch (50.8mm) side clearance
Weight	Variable depending on size