

Accessories

Faraday Cages Setup

Introduction

The Faraday Cage is available in two types of configurations.

- **Type II Faraday Cage**
Cage for mounting to a full perimeter enclosure on 63-500 series tables.
- **Bench Top Faraday Cage**
Cage with a base plate for use on a bench top.

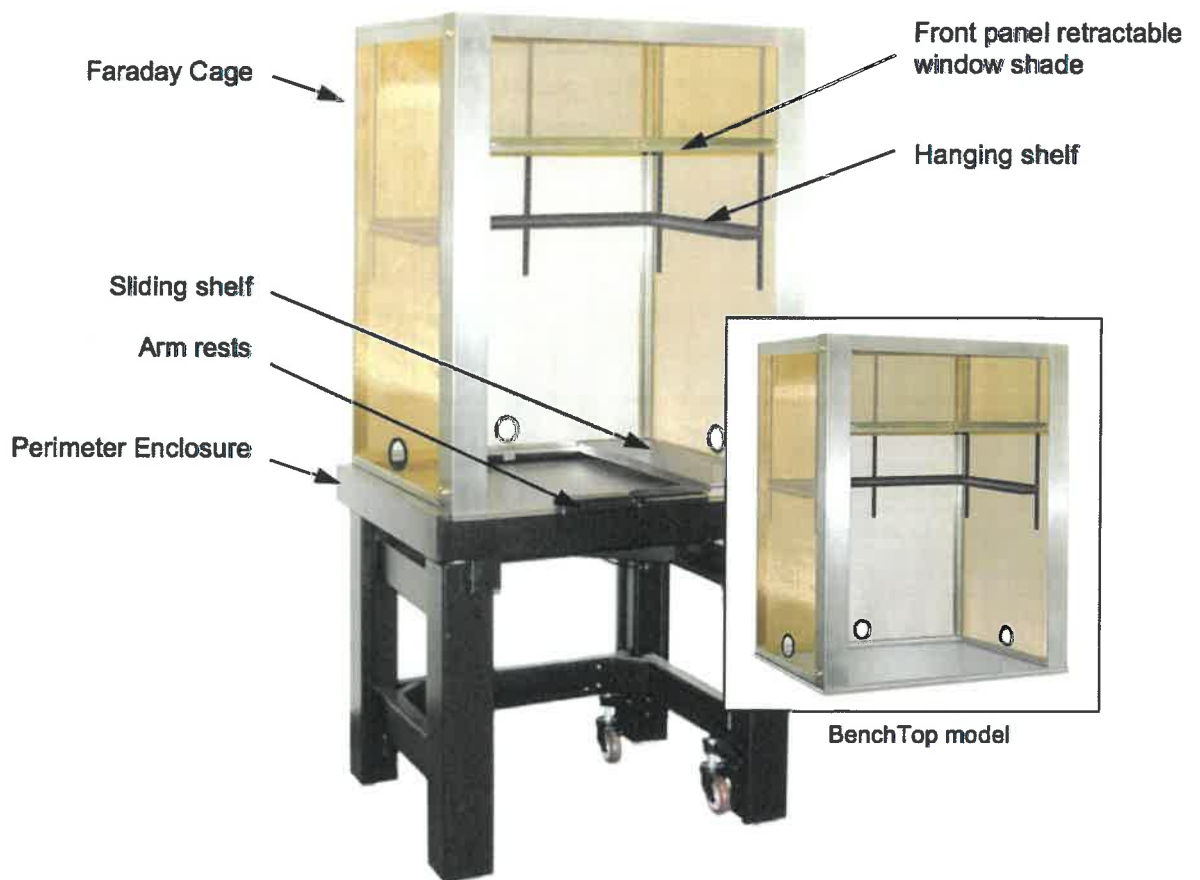


Figure 1, *Type II Faraday Cage and Bench Top model (insert)*

Assembly Instructions



Caution Use gloves or take care when handling front panel aluminum edges to avoid cutting your hands.

Tools Required:

- Philips screw driver (provided)
- 3/8 inch wrench

Hardware Provided

- Front panel (1)
- Side panels (2)
- Rear panel (1)
- Top panel (1)
- 10-32 x 1-1/4 inch screws & hex nuts (6)
- 6 x 1 inch self-drilling screws (15)
- Holding clip, large (2)
- Holding clip, small (4)

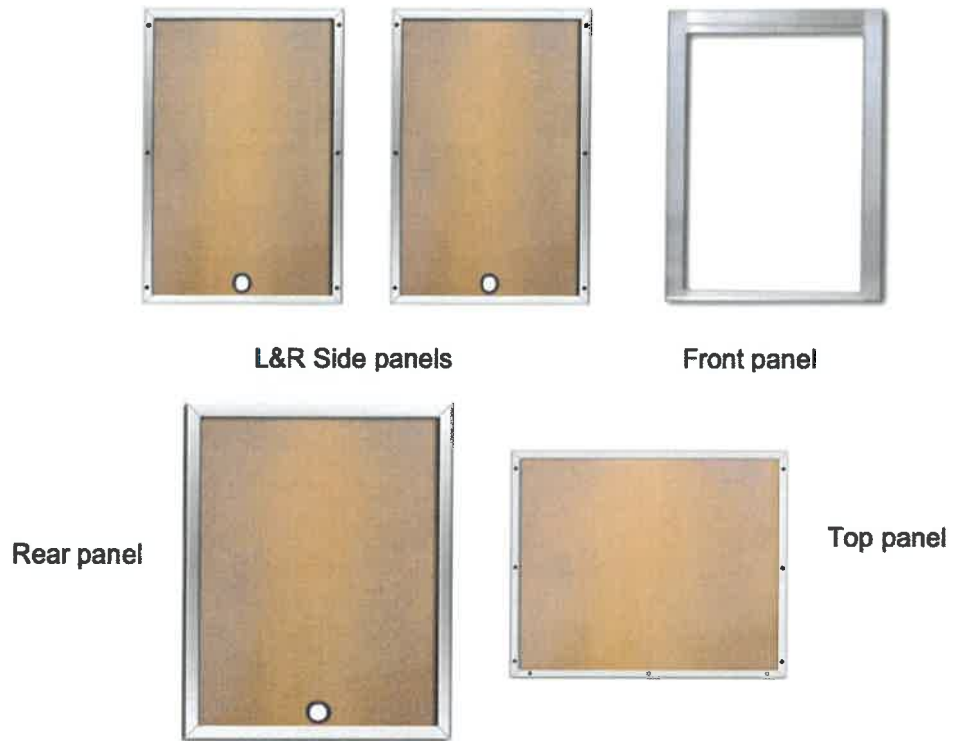


Figure 2, *Faraday cage panels*

Step 1 Ensure front panel assembly window shade is in the open (retracted) position for ease in cage assembly.

Open shade as required by lifting brass shade release lever as shown below.

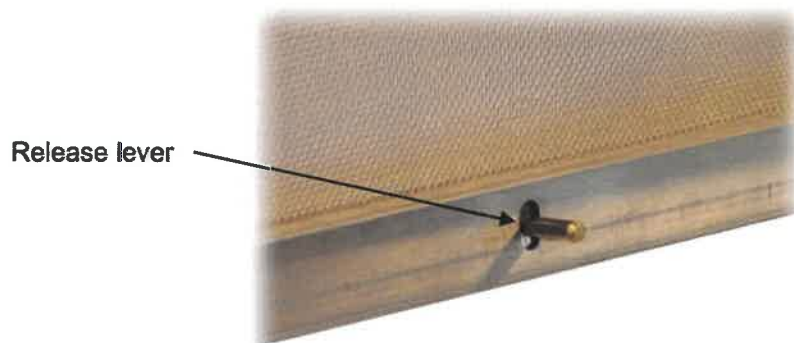


Figure 3, *Front shade release lever*

Step 2 Place base of assembled front panel on rectangular perimeter enclosure frame's front surface or bench top base plate as appropriate.

Center base of front panel on enclosure frame and fit panel's bottom lip into open center area as shown in figure below.

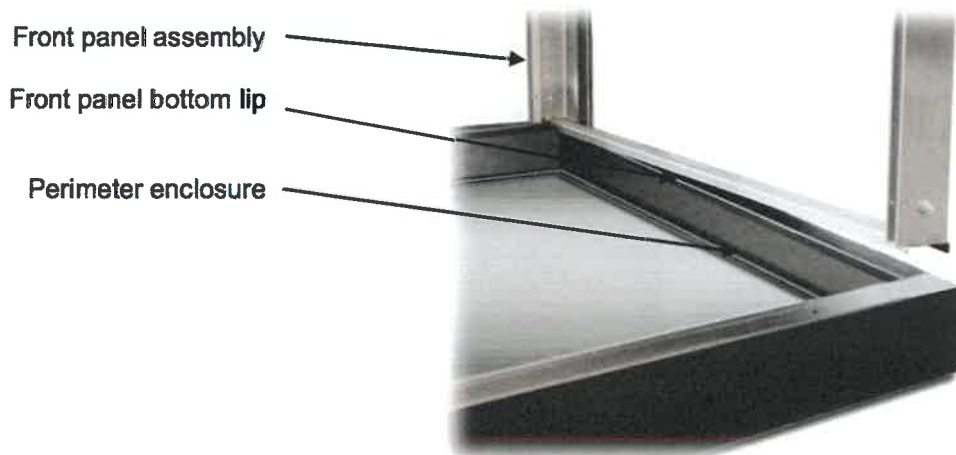


Figure 4, *Mounting front panel to perimeter enclosure*

Step 3 Insert first side panel vertical edge into the front panel vertical side cavity as shown below.

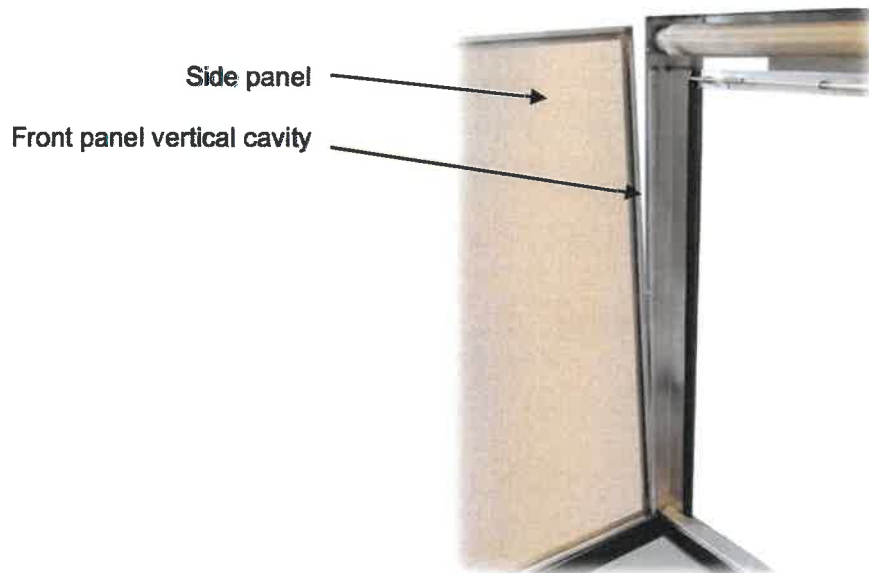


Figure 5, *Attach side panel to front panel*

Step 4 Press side panel against front panel vertical cavity and fasten using a **10-32 x 1 inch** Philips head screw and hex nut in side panel top hole location.

Loosely tighten screw using Philips head screw driver.



Note As panels are first assembled, loosely fasten with a single screw along each edge until all panels are attached and properly aligned together.

Step 5 Snap a hold-down clip between the lower edge of the side panel and perimeter enclosure frame.

Use a large clip if the perimeter enclosure frame is **5.75 inches** tall or a small clip if the enclosure is **3.75 inches** tall.

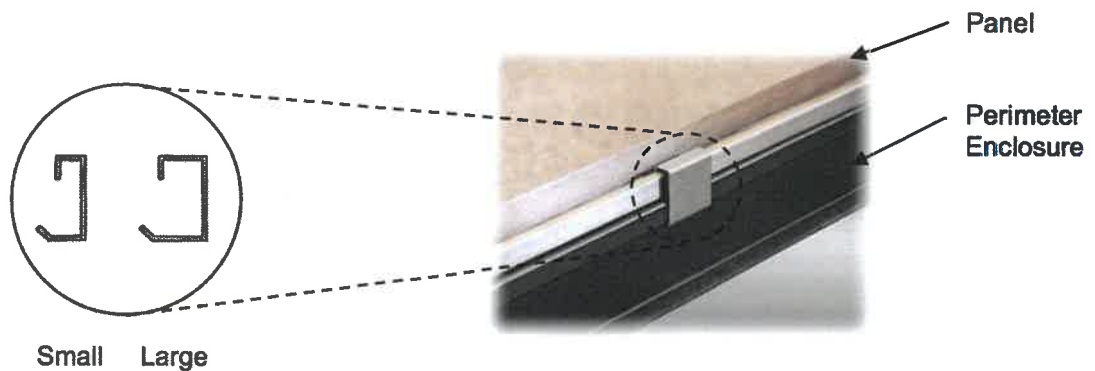


Figure 6, *Hold down clip*

Step 6 Attach second side panel in the same way as the first, hold panel in position and loosely fasten with a **10-32 x 1 inch** screw in side panel top hole location only.

Step 7 Snap a hold-down clip between the lower edge of the side panel and perimeter enclosure frame.

Use a large clip if the perimeter enclosure frame is **5.75 inches** tall or a small clip if the enclosure is **3.75 inches** tall.

Step 8 Place the rear panel between the two side panels. Loosely fasten rear vertical edge of each side panel against rear panel with one **6 x 1 inch** screw.

Step 9 Snap two small size hold down clips evenly spaced along the bottom of rear panel the same as shown in figure 6 above for side panels.

In this step only the smaller clips are used regardless of the size of the perimeter enclosure.

Step 10 Place the top panel over the two side panels and slide panel into the top front panel cavity area and evenly align edges with side panels.



Figure 7, Attach top panel

Step 11 Fasten top panel to side and rear panels using one **6 x 1 inch** screw along each edge.

Step 12 Align side, rear, and top panels evenly together.

Step 13 Fasten (4) remaining **10-32 x 1-1/4 inch** screws and hex nuts along front edge of each side panel to front panel and tighten securely.

Step 14 Fasten remaining **6 x 1 inch** screws to side, rear and top panels and then tighten all screws securely.

Faraday Cage

Hanging Shelf Option

Tools Required: Philips screwdriver, 3/8 inch wrench

Hardware

- 10-32 x 1 inch screws (4)
- 10-32 hex nuts (4)

Shelf Assembly Instructions

Step 1 Place three piece shelf face down on a flat surface and layout configuration as shown in figure below.

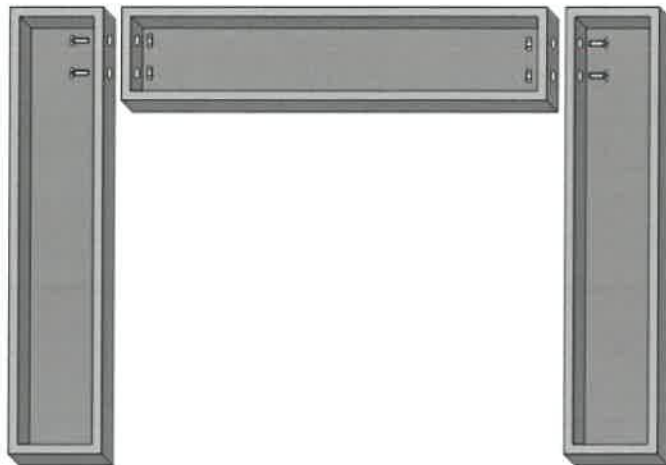


Figure 8, *Shelf assembly*

Step 2 Attach three shelf pieces together using (4) 10-32 x 1 inch screws and matching hex nuts.

Attaching Shelf to Faraday Cage

Shelf may be installed with either finished side facing up or facing down providing a recessed shelf area for containing small items as shown below.

First attach suspension brackets around outside edge of assembled shelf. Insert completed assembly through front opening in cage and then hook top bracket ends around top panel frame inside cage as detailed in the follows.

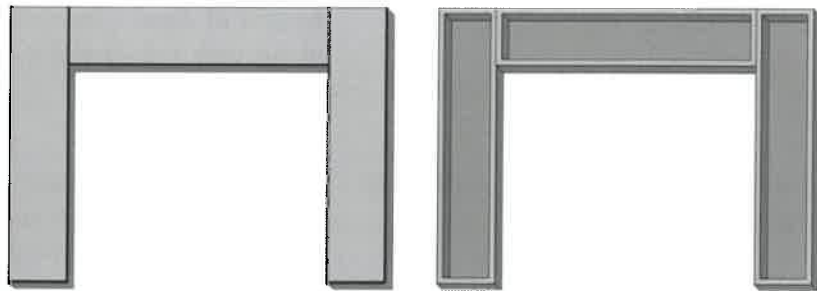


Figure 9, *Top surface shelf orientation*

Step 1 Place shelf, with top surface orientated in either direction as shown in figure above, on a surface that allows suspension brackets to hang to the side without interference while being attached (i.e. top surface of Faraday Cage as shown below).

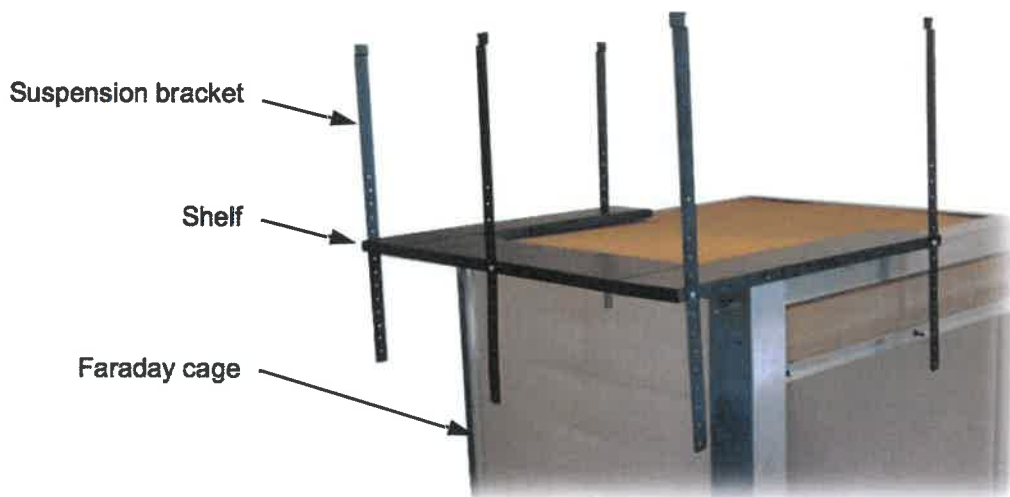


Figure 10, *Attaching suspension brackets*

- Step 2** Determine location for suspending shelf and then identify appropriate mounting hole in brackets for attaching shelf.
- Step 3** Attached all (5) suspension brackets with **10-32 x 1 inch** screws and matching hex nuts. Place screws with attaching hex nut facing outside of shelf toward panel screen area.
- Step 4** Hold shelf assembly and rotate shelves **90 degrees** with attached brackets oriented horizontally and rear shelf facing the rear of cage. Insert through cage front panel opening, taking care not to allow suspension brackets to puncture side panel screens.
- Step 5** Inside cage, rotate shelf assembly back **90 degrees** so shelves are horizontal and bracket ends with attachment hooks are vertical, pointing up.
- Step 6** Lifting shelf assembly up into position and hook the top of each suspension bracket around the inner edge of top panel as shown in panel cut-away illustration below.

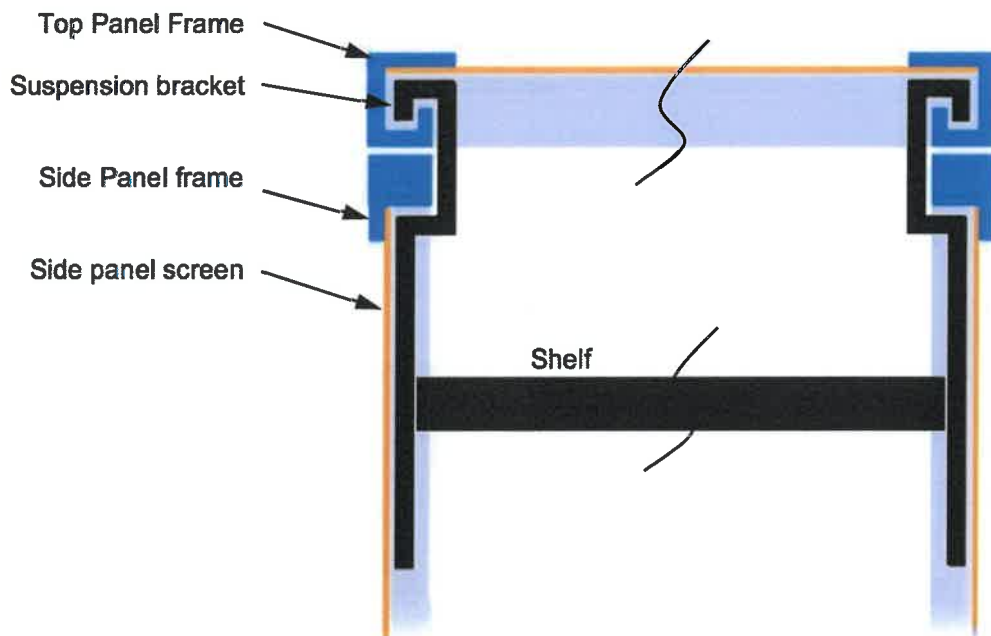


Figure 11, *Attaching suspension brackets*



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