

Planar PS5580 Planar Mounting System

Copyright © 19 February 2014 by Planar Systems, Inc. All rights reserved.

Contents of this publication may not be reproduced in any form without permission of Planar Systems, Inc.

Trademark Credits

Windows™ is a trademark of Microsoft Corp.

All other names are trademarks or registered trademarks of their respective companies.

Disclaimer

The information contained in this document is subject to change without notice. Planar Systems, Inc. makes no warranty of any kind with regard to this material. While every precaution has been taken in the preparation of this manual, the Company shall not be liable for errors or omissions contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Warranty and Service Plans

Planar warranty and service plans will help you maximize your investment by providing great support, display uptime, and performance optimization. From post-sale technical support to a full suite of depot services, our services are performed by trained Planar employees. When you purchase a Planar product, you get more than a display, you get the service and support you need to maximize your investment. To find the latest warranty and service information regarding your Planar product, please visit:

<http://www.planarcontrolroom.com/support>

Warranty Features

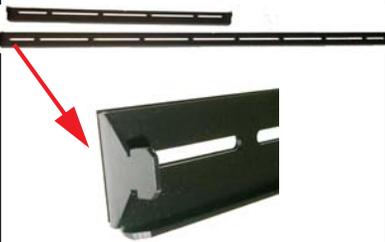
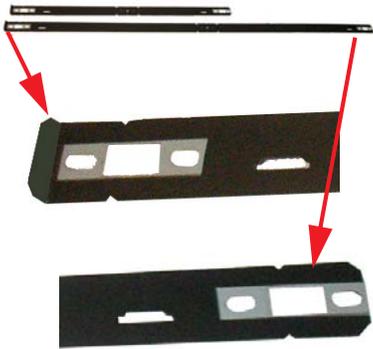
- 3-year protection from defects in material and workmanship
- Advanced shipment of replacement part or product
- Access to 24/7 emergency phone support
- Please visit: www.planar.com/support/warranty/standard_warranties/ for a full warranty review.

Document number: 020-1262-00A



Unpacking and Checking the Planar Mounting System Kit

If you purchased the Planar mounting kit for the PS5580, you will have these parts. This kit is purchased, packaged and shipped separately from the PS5580 displays.

Part	Description	Picture
Corner Bracket	<p>4 each. These mount on the back of the PS5580 display.</p> <p style="text-align: right;">Bottom view</p> <p style="text-align: right;">Top View</p>	
Mounting Bars	<p>These attach to the physical wall and the displays hang from them. If you ordered this kit for portrait orientation, you will have two short mounting bars. If you ordered for landscape, the mounting bars will be long.</p> <p style="text-align: right;">Mounting Bar end</p>	
Locking Bars	<p>These connect to the back of the display on the Corner Brackets. If you ordered this kit for portrait orientation, you will have two long locking bars. If you ordered for landscape, the locking bars will be short.</p> <p style="text-align: right;">Top end of Locking Bar</p> <p style="text-align: right;">Bottom end of Locking Bar</p>	

Part	Description	Picture
Machine screws	<p>8 each M4 x 0.7 x 8</p> <p>12 each M4 x 0.7 x 16</p>	
Washers	8 each	
Handle	2 each, for lifting the display	

Installing the Planar Mounting System

These instructions apply *only* to mounting the displays with Planar's custom mounting system.

Attaching Corner Brackets

- 1 Lay the panel face down on a flat surface that is covered with a clean, soft fabric or plastic foam to prevent damage to the screen.
- 2 On the two brackets that will be the *top* corners, slip the loops of the handles over the bracket standoffs before installing. For landscape, the panel's connectors will be at the bottom. For portrait, the connectors will be on the left side, as seen from the rear.

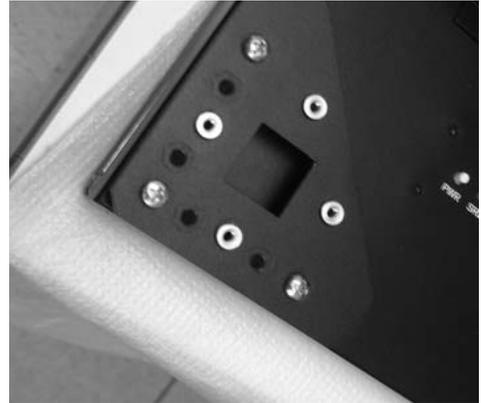


Handle installed on a bracket for the top of the display



- 3 Install the corner brackets on each corner of the panel using M4 x 0.7 x 16 pan head screws. Use 3 screws for each corner bracket.

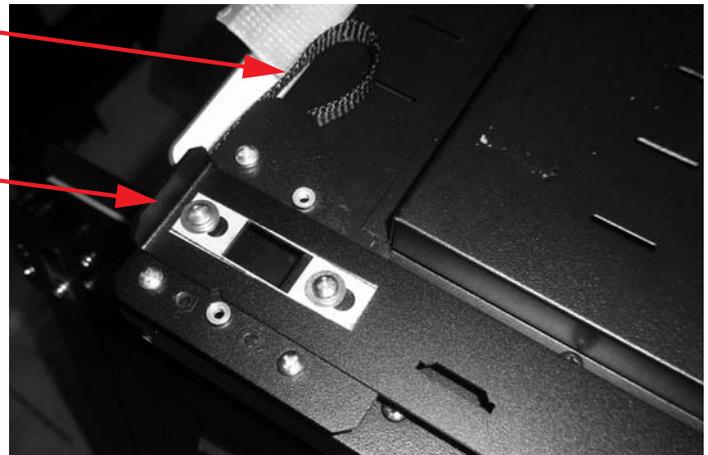
Bottom bracket without handles.



- 4 Place Locking Bars over the standoffs at the corners. The flanges on the Locking Bars must be at the top of the panel and face *away* from it. Use M4 x 0.7 x 8 pan head screws with a washer in each of the standoffs that go through the Locking Bar, two screws at the top of the bar and two at the bottom. The Locking Bar should move freely up and down. There will be two screw holes on each bracket that are not used.

Handle, moved out of the way

Flange



Note: Reserve at least one of the Locking Bars to use as a measuring and locating device when putting the Mounting Bars on the wall. Install it on the last panel after all the Mounting Bars are in place.

Mounting the Bars on the Wall

Note: In these instructions, we will emphasize *level* and *vertical* many times. The precision you use to get things level and vertical and *measured* correctly will pay dividends in the end. Don't hurry. Be accurate.

First Row Mounting Bars

- 1 Start with the lower left panel. Be sure you have enough clearance room on the left and bottom of this panel's location.
- 2 Locate the center for this lower left panel.
 - a Using a level, draw a short horizontal line that will be at the center point of the display panel.



- b Draw a vertical line that extends down to the bottom edge of this panel and up to the top of the topmost panel.



- 3 Place the Locking Bar, like the one you used on the panels, against the wall with the panel center point showing in the center hole. Use a level to be sure it is vertical. The horizontal center line on the wall will pass through the notch on either side of the center hole. The vertical line will pass through the center of the rectangular holes above and below the center hole and through the diamond holes above and below it.



- 4 Mark the points in the notch at the top and bottom of the Locking Bar.

Marking the top notch.



- 5 Using a level, draw a horizontal line through the top tick marks and through the bottom marks. Extend these lines for the width of the entire wall.



- 6 Mark points along this horizontal line that you will use to secure the Mounting Bars. Stud locations are recommended, if available. Each mount should have a minimum of two attachment points. The further apart these are, the better. Three points are better for each bar.

Note: The end slots of each mounting bar *must* have a screw. If they do not, there may be a tendency for the bar to bow out a little. These end screws can be in addition to the weight-bearing screws.

- 7 Hold a Mounting Bar up to the wall for the top and bottom to see that the proposed screw locations line up with slots in the bar. The vertical line on the wall should pass through the center notch on the mount.



- 8 Pre-drill all mounting holes.

- 9 *Loosely* install the top and bottom mounts using M6 or ¼"-20 mounting hardware with washers, hardware you supply. (Use small diameter mounting screws to allow some "wobble room" for getting the bars level.) The flange of the top Mounting Bar should be on the top, and the flange on the bottom bar on the bottom.

This is the top Mounting Bar with the flange on top.



- 10 Use a level to ensure the *bottom* bar is level, and center the horizontal line in the center slot. Then tighten the bottom mount screws.
- 11 Use the Locking Bar as a guide to set the distance between the bottom Mounting Bar and the top Mounting Bar.
 - a Hang the Locking Bar on the flange "hook" of the top bar.



- b The bottom mount is already tightened. Lift the Locking Bar so it engages the Mounting Bars with the bottoms of the rectangular holes. This allows you to adjust the top Mounting Bar to the correct height above the bottom bar. Tighten the Mounting Bar screw on this side only.
 - c Now do the same on the other side of the Mounting Bar. Then tighten any remaining Mounting Bar screws that may be in the middle.

- d** Check that the Locking Bars are vertical.



You now have the Mounting Bars installed for the lower left display.

Completing the Bottom Row

For each additional panel in the *bottom* row:

- 1** Measure one panel width + 1mm to the right of the previous vertical centerline and draw a new one.
 - a** For a landscape arrangement, this distance is 1225.2mm [48.24"].
 - b** For a portrait arrangement, the distance is 697.0mm [27.44"].
- 2** Repeat steps **6-10** above.
- 3** Use the center slots of a Locking Bar to set the distance from a previous bottom mount to the current bottom mount on its right. Check that this new bar will be level and in line with the already mounted one.



- 4 Tighten the bottom mount screws. Check for level.
- 5 Again, use the center slots to set the distance for the top mount to the left of the fixed mount. Check for level and alignment.
- 6 Repeat steps **11a**, **b**, and **c** above to get the vertical distance of the top bar correct.

Rows Above the Bottom Row

- 1 Measure 66mm [2.60"] up from the top horizontal line of the previous row and mark several points along this new row.
- 2 Using a level, connect these points to form the bottom horizontal line for this new row. This line will be in the center of the slots of the bottom Mounting Bar for this new row. Do not mount this bar yet.
- 3 Place the Locking Bar against the wall with the bottom two notches on this line.
 - a Use a level to ensure that the Locking Bar is vertical.
 - b Mark the top notch.
- 4 Use a level to draw a horizontal line through this latest tick mark. Go all the way across the wall for the width of the all displays. This line will be in the center of the slots of the top Mounting Bar for this new row.
- 5 Mark points along the top and bottom lines for these Mounting Bars, a minimum of two points per bar; three points is recommended.
- 6 Pre-drill these mounting holes.
- 7 *Loosely* install the top and bottom Mounting Bars with the flange of the top bar up and the flange of the bottom bar down, as before.
- 8 Use a level to ensure that the bottom mount is level with the horizontal line in the center of the slots.

- 9 Using a Locking Bar as a guide, set the distance between the tabs on one side of the Mounting Bars.



- a Put the small slot over the flange of the already mounted bar.
 - b Pull the new mounting bar up.
 - c The correct distance is achieved when the small slot in the Locking Bar and the rectangular slot are both on the Mounting Bar tabs. It doesn't matter whether you do this for the bottom of the slots in the Locking Bar or the tops, but you must use the same edge of both slots.
 - d Tighten the screw at this end of the Mounting Bar.
- 10 Do the same for the other side, and tighten the screw. If you have a center screw, tighten it, also.
 - 11 Tighten the bottom Mounting Bar screws.

Additional Panels in This Row

- 1 For each additional panel in the row:
 - a Repeat steps 5-11 immediately above.
 - b Use the center slots of a Locking Bar to set the distance from this bottom mount to its neighbor.
 - c Check for level and aligned with the bar to the left. Then tighten the bottom mount screws.
 - d Use the center slots again to set the distance of the top mount from its neighbor.
 - e Repeat this until all rows are finished.

Hanging the Display Panels

The displays should be hung from the bottom left corner, one row at a time. Fill the bottom row before hanging the next row above.

Note: This is done best with two persons. It is safer and easier and highly recommended.

For each panel, follow this procedure:

- 1 Connect applicable cables. It is easier to do this before the panel is hung. However, you can connect cables later by putting the panel in the Service Position, described below.
- 2 Move the Locking Bars to the unlocked position, that is, with the flange pulled up as far as possible.
- 3 Tilt the top of the display slightly toward the wall and slide it down over the corner tabs of the Mounting Bar until it slips into place.

Note: The display is now in “service position” with the top brackets in their slots and the bottom free to swing out about 12 degrees. You have access to the connectors here.

- 4 Attach all the cables.
- 5 Push the bottom of the display panel gently back into the wall until it slips into place. Be sure it is as far back as it can go.
- 6 Lock both sides by pushing the Locking Bar flange down.
- 7 Fold the fabric handle down behind the display so it won't be in the way of the row above.

Removing a Panel

- 1 To remove one panel, all panels directly above it must be in service position.
- 2 When the panel you want is in service position, disconnect all cables.
- 3 With this panel at a slight angle so the bottom brackets are not hooked, lift up slightly and pull outward until the panel comes free.

Service Position

To put a single panel in service position, you need to have all the panels directly above the one you want to work on in service position. Start at the top and work your way down the column. You may also have to have panels to the right and left open so you can get to the sides to swing them out.

- 1** Release the locking bars on both sides by pulling the flange up.
- 2** Pull outward on the bottom of the panel. Be careful not to push up on the display or it may come off the Mounting Bar.
- 3** Hold the bottom of the panel out (about 12 degrees) with something you provide, a foam block, for instance.