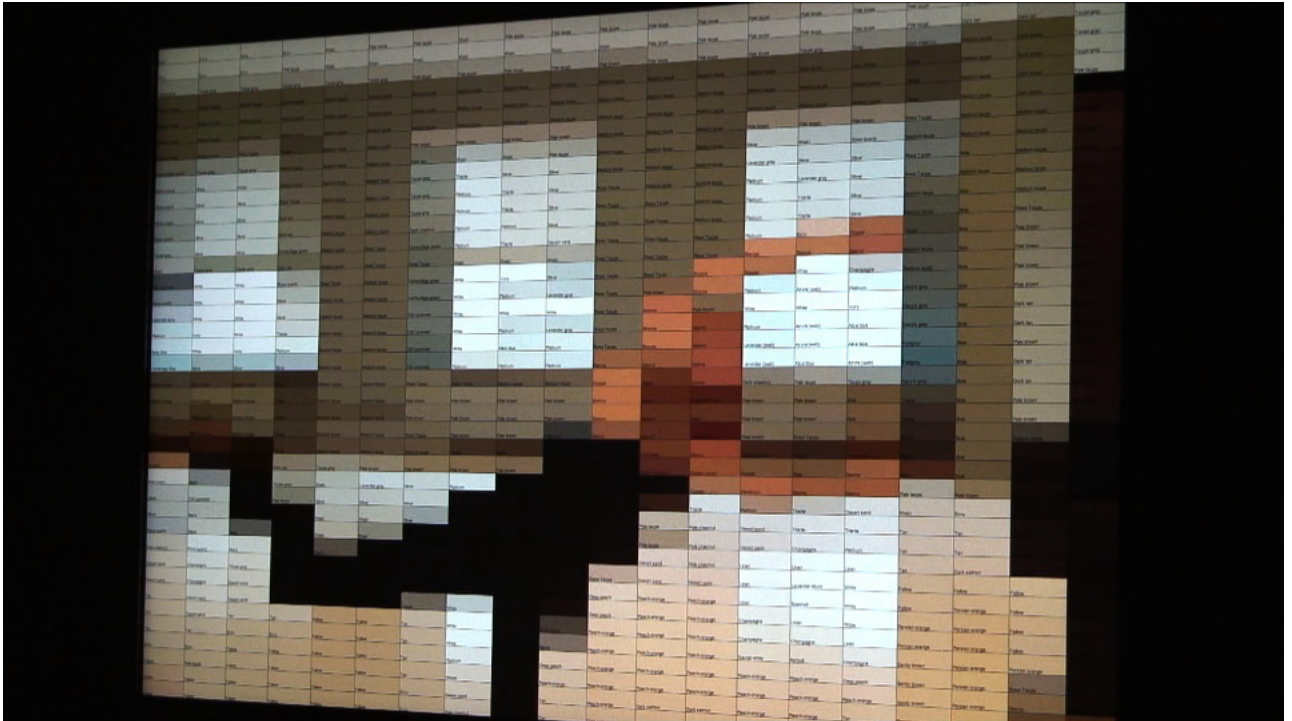


THE COMPANY OF COLOURS

Shadowbox 9

By Rafael Lozano-Hemmer



CONTENTS

General important information

This short section must be read for proper operation

Description
Operation
Cleaning
Placement Instructions
Software

Detailed technical information

A technical reference for preservation, maintenance and troubleshooting

Components of the piece
Troubleshooting
Appendix 1 – Plasma mount technical sheet and installation manual
Appendix 2 – Shadowbox inside, cabling diagram and photographs
Appendix 3 – Installation Shots

General important information

The Company of Colours, Shadowbox 9 (2009), high-resolution display with integrated computerized tracking system, 104.5 x 80 x 12 cm.

Edition of 6 +1AP

By Rafael Lozano-Hemmer

Description

“The Company of Colours” is the ninth piece in the Shadow Box series of interactive displays with a built-in computerized tracking system. This piece shows a live surveillance camera view constructed out of a palette of named colour swatches that can be rendered by contemporary computers. Every few minutes the piece automatically switches to show the live view constructed with a variety of culturally-significant colour palettes from computer and videogame history, including the 4 shades of green of the original Nintendo Gameboy, the eight colours of teletext, and the sixteen colours of the Commodore 64, the Apple II and the ZX Spectrum. The piece emphasizes the limited gamut of colour rendering possible with computers and the way this limitation creates styles of representation.

Operation

1. Connect the box to electrical power using the supplied power cable. The Shadowbox comes with a standard IEC C14 chassis plug, which is found in most computers (see image below).

You may connect the piece to 100-120V 60Hz (American) or to 210-240V 50Hz (European) current, as all the gear inside has auto switching power supplies. The whole piece draws around 300W.

2. To turn the piece ON, firmly press the button that is on the lower back of the piece, on the right side. *Important note: Once the button is pushed it takes up to 4 minutes for the display to start-up. Please do not push the button again as you will shut down the piece.*

3. To turn the piece OFF, press the power button once.

Cleaning

Please do not clean the display surface with Windex or soap. Use a lint-free cloth and LCD screen liquid cleaner, such as Kensington Screen Guardian found in computer stores. The aluminium frame can be cleaned with a wet cloth and a bit of liquid soap.



Placement Instructions

The piece should be hung with the centre at 152 cm (60 inches) from the ground, using the provided “Peerless” plasma mounting system. Instructions for this are included in Appendix 1 of this manual.

It is a good idea to light the interactive space in front of the piece using lights that have a color temperature resembling that of daylight.

Also note that when the Shadowbox is in complete darkness, or when the camera lens is covered, it will automatically shut down to preserve power and increase the lifespan of the components. Turning the piece back on via the power button behind it will take a few minutes.

Software

The piece includes custom-made software that automatically starts up and self-calibrates. However, there are some software tools that may be useful if you would like to optimize the performance of the system. To change settings in the software, plug the included mouse on the USB port that is underneath the Shadowbox (please note that under the piece there are two ports one is USB and the other is an RJ45 port for Ethernet).

Once the mouse is connected you may right-click to reveal a pop-up menu (it may take a couple of seconds for the pop-up to appear). There are three sliders available:

1. Blur Video Source (Default value : 3) – This slider blurs the video feed from the camera as seen in the “Live Video” window so as to ultimately alter the colours being rendered in the colour swatches. Decreasing this value makes the colours more nervous and contrasted, while increasing it makes them smoother and makes the global image less defined.

2. Named colours on for sec (Default value : 60) — This slider determines for how many seconds the piece will remain in “Named colours” mode which is the mode where the colours that make up one big live view are analysed and named.

2. Colour palettes on for sec (Default value : 30) — This slider determines for how many seconds the piece will remain in “Colour palettes” mode which is the mode where several color schemes are displayed at once.

Right-click again to exit the menu.



Detailed technical information

Components of the piece

Metal Box

The box has an internal steel frame with black anodized aluminium cover. It has a built-in "Peerless" plasma mount for hanging. A hinge mechanism allows the box to swing open while still hanging on the wall, revealing the components for easy maintenance. To open the box you must unscrew the two flat head screws that are on the left side of the box. The flat head screws are the second from the top and the second from the bottom.

Display

The display is a 30 inch Apple Cinema Display that shows 2560x1600 pixels, —about 2 to 3 times more resolution than a typical plasma screen. The display comes with a one-year warranty and can be easily removed for future replacement. If in the future a higher resolution display is used the software has been programmed to use up future resolutions.

Computer

An Apple Mac Mini computer is mounted on top of the embedded screen. It has 2 Gigabytes of RAM, at least a 2.0GHz dual core Intel processor, at least 128MB of VRAM with a dual DVI graphics link, and MacOSX. The power button of the computer has been soldered to two wires that are connected to the button on the back of the Shadowbox so that it can be powered on and off from that button. The computer comes with a one-year warranty and can be easily removed for future replacement. Please note that the computer does not need to be an Apple Mac Mini. At the time of writing Apple was the only manufacturer that made a suitable computer. If in the future a PC manufacturer develops a product with the same capabilities it could be used as a replacement.

Camera

The Shadowbox contains a Logitech QuickCam Ultra Vision Pro USB camera. The piece should work with most OSX-compliant USB webcams.

Software

The project software is entirely programmed in C++ and the source code is open to the collector for future compilation to accommodate forthcoming operating systems or hardware. Developer Stephan Schulz programmed the software and he can be contacted through Lozano-Hemmer studio:

Antimodular Inc.
4060 Blvd. St-Laurent, studio 107
Montréal Québec H2W 1Y9 Canada
Tel. 1-514-597-0917
Fax 1-514-597-2092
www.lozano-hemmer.com

A full set of CD-ROMs with software is included.

Troubleshooting

The Shadowbox comes with one Ethernet port underneath that can be used to network the internal computer without needing to open the box. Likewise, a USB connector allows hooking up a mouse or, using the provided USB hub, connect a mouse and a keyboard. The USB port and hub can also be used for updating software that may be shipped in a USB memory drive. Many of the manipulations described below imply that a mouse has been plugged in the USB port of the Shadowbox. We suggest that you use the mouse provided with the Shadowbox, but any 2-button USB mouse equipped with a scroll wheel will work.

The Shadowbox is not turning on

If you press the power button of the Shadowbox while it is plugged to the mains and no changes are apparent, the first step is to wait up to 4 minutes between each firm button press, as it may take some time for the Shadowbox to boot up. If after a couple of tries there is still nothing on the screen, try the following steps.

Check the power outlet that the shadowbox is connected to.

Verify that the power outlet the Shadowbox is plugged into is working properly. Unplug the Shadowbox from it and plug in an electrical device that will allow you to confirm that the outlet is working. When this is done, remove the device and plug the Shadowbox back in firmly. Finally, ensure that this same power cable is nestled properly on the back of the Shadowbox.

It may be that an internal cable has come loose during shipping.

You can swing open the Shadowbox while leaving it on the wall by removing the two flat head screws on the left side of the Shadowbox and then pulling that side towards the front. Once the piece is opened, check the computer's power connections, starting from the power connection on the computer itself, then the connection on its power adapter, and finally the connexion to the power bar. Also, make sure that the button of the Shadowbox is properly installed, that the cables going to it are soldered in place and that they lead to mini-jack connections that are properly nestled. Also verify that the connections to the LCD monitor are in place. The LCD monitor should be connected to the computer through the display port. The display should also be powered to its power adapter, which should, in turn, be connected to the power bar. See the wiring diagram and photographs at the end of this manual for guidance. The problem you are seeing likely has to do with one of these connections being loose. Once the problem has been located, try out the Shadowbox power button again and close it up. If the computer is still not turning on, it may be a problem with the computer itself. Refer to the support section to find out how to contact us, and we will assist you in further troubleshooting options and, ultimately, instructions on how to replace the computer.

Resetting to default settings

If you would like to return the piece to its original default settings, access the pop-up menu by right-clicking with the mouse and set the three sliders to 3, 60 and 30 respectively. Right-click again to exit the menu.

Power outage

If there is a power outage or if the Shadowbox is unplugged from the wall the display will turn off but the computer inside will remain on by using a battery. If the power is supplied again to

the Shadowbox then the piece will resume working properly without needing to be restarted. If however the power is cut off for more than a couple of hours the battery will deplete and the computer will shut down or go to sleep, and it may be necessary to restart the system by pressing the power button in the back.

Crash

In the unlikely event that the computer freezes or crashes or gives an error message, pressing the power button for 5 seconds can restart the whole system. This will force the computer to shutdown. After this, press the button again briefly to start up normally. Please contact Lozano-Hemmer's studio in the event of a crash so that this can be solved immediately.

Software Administrator Settings

In the unlikely event that the software needs more specific modifications you can access this panel by click the scroll wheel on the USB mouse.

Please contact Antimodular before making any changes to this panel.

Auto Save

Save Settings

Admin Settings

FPS: 25,8695736

Shutdown on black video

After sec of black: 8

Label delay in ms: 301

Average last frames: 3

Switch mode

Show colour palette

Toggle fullscreen

Restore All to Default

Quit Application

The Company of Colours v 3.0
columns 20, rows 40

Live Video

x/y 0 , 0 x/y 320 , 0

x/y 0 , 240 x/y 320 , 240

Region of interest (drag corners)

Support

If you would like support for the piece please feel free to call Lozano-Hemmer's studio in Canada:

Antimodular Research
4060 St-Laurent, studio 107
Montréal Québec H2W 1Y9 Canada
Tel 1-514-597-0917 Fax 1-514-597-2092
info@antimodular.com
www.antimodular.com

Appendix 1 – Plasma mount technical sheet and manual

TECHNICAL DATA SHEET - **SmartMount™**

Universal Flat Wall Mount for 22" - 49" Screens

peerless®
Solid Solutions - Solid Support™

MODELS: D-FPF-220, D-FPF-220S,
SF 640P, SF 640P-S

oshpd c 

The **SmartMount Universal Flat Wall Mount** supports virtually any 22" to 49" LCD or plasma screen. The ultra-slim wall plate keeps the screen close to the wall for a very discreet installation that is perfect for boardrooms, digital signage, or home theaters. The mount includes simple to align universal brackets and a unique wall plate that can be mounted to a single wood stud, two wood studs up to 16" apart, or concrete. Includes a Sorted-For-You™ baffle pack with all screen hardware and security fasteners.

Features:

- Colors: silver or black
- Universal mount fits virtually any 22" to 49" flat panel screen
- Slim design holds screen close up against the wall (1.18")
- Screen simply hooks onto the wall plate for quick and easy installation
- Optional horizontal adjustment of up to 6" (depending on screen model)
- Includes hardware for installation to wood studs, concrete, and cinder block

Accessories:

- Metal Stud Fastener Kit (ACC 415)
- Video Conferencing (ACC 309)
- Accessory Shelves (PM 600, PM610)

Dimensions:

Weight:

4.9 lb (2.2 kg)

Shipping weight:

5.6 lb (2.5 kg)

Maximum Load Capacity:

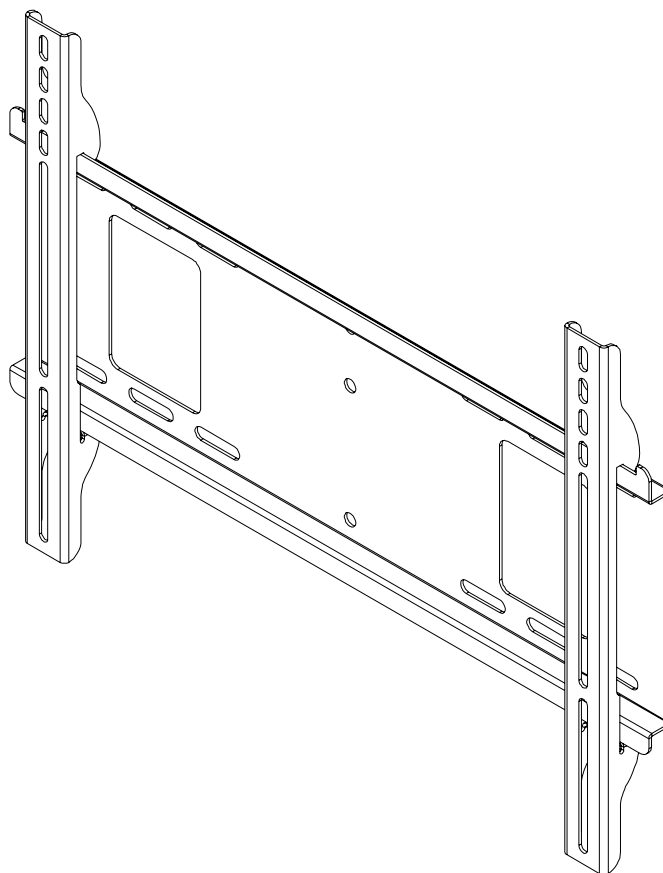
150 lb (68 kg)

Shipping Carton dimensions:

L = 20.75 in (527 mm)

W = 10.00 in (254 mm)

H = 1.75 in (44 mm)



ARCHITECTS SPECIFICATIONS

The **SmartMount Universal Flat Wall Mount** shall be a Peerless model _____ and shall be located where indicated on the plans. It shall feature 6" horizontal adjustment. It shall include hardware for installation to wood studs, concrete, and cinder block. Assembly and installation shall be done according to instructions provided by the manufacturer.

Peerless Industries, Inc.

3215 W. North Ave. Melrose Park, IL 60160
708-865-8870 800-865-2112 Fax 708-865-2941

www.peerlessmounts.com

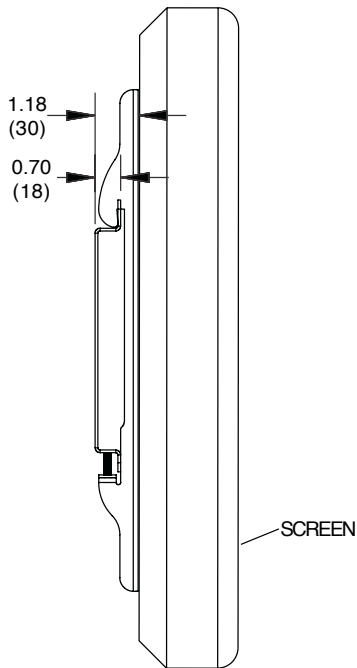
ISSUED: 04-12-05 SHEET NO: 201-9699-6 09-11-06

© 2006 Peerless Industries, Inc. All rights reserved.
SmartMount is a trademark and Peerless is a registered trademark of Peerless Industries, Inc.
All other brand and product names are trademarks or registered trademarks of their respective owners.

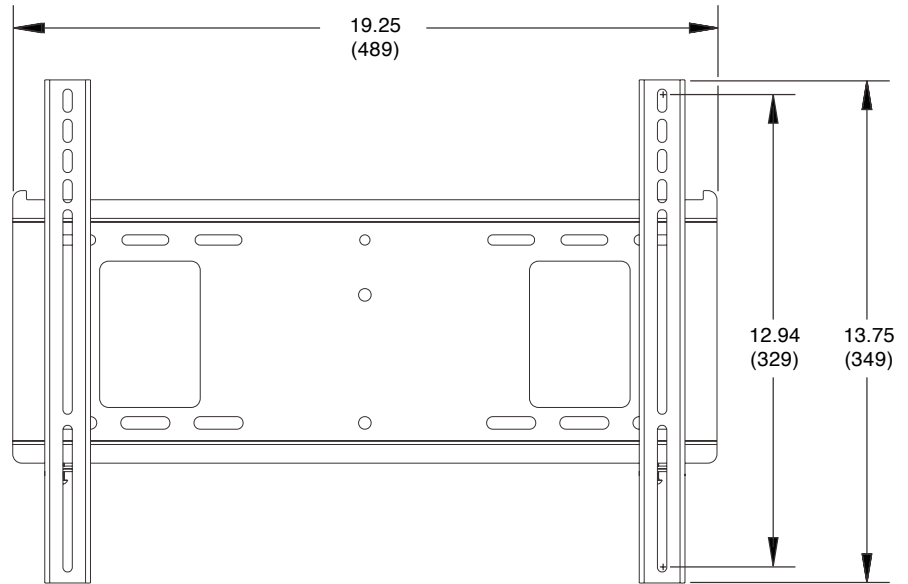
TECHNICAL DATA SHEET

MODELS: D-FPF-220, D-FPF-220S, SF 640P, SF 640P-S

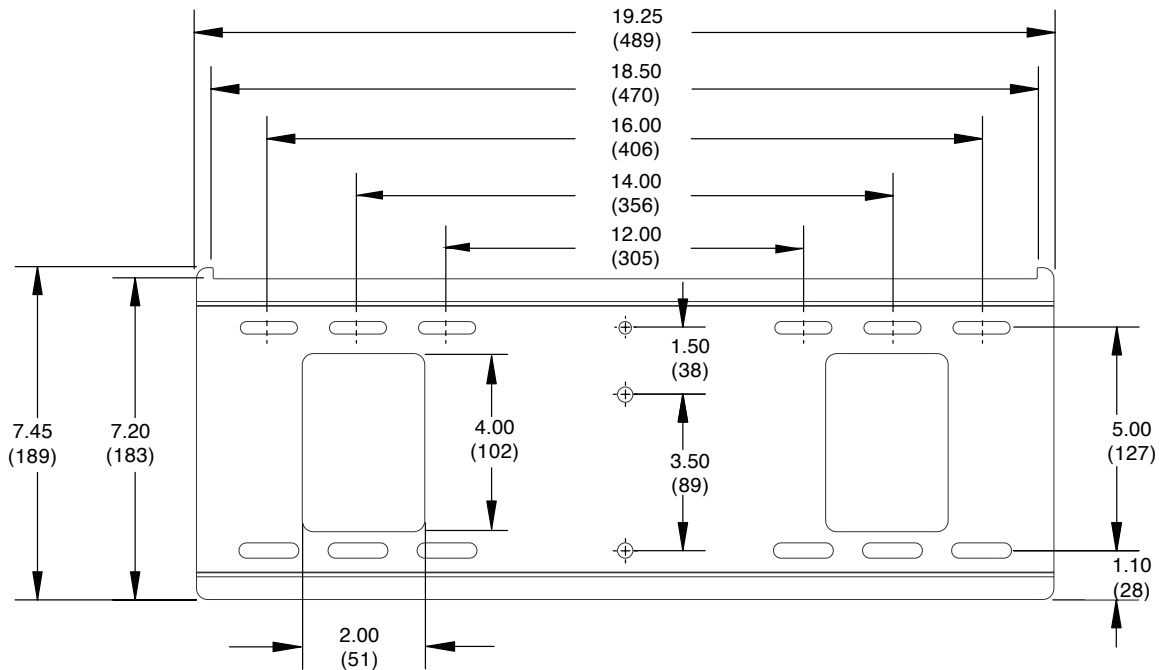
All Dimensions = $\frac{\text{in}}{\text{(mm)}}$



SIDE VIEW



FRONT VIEW



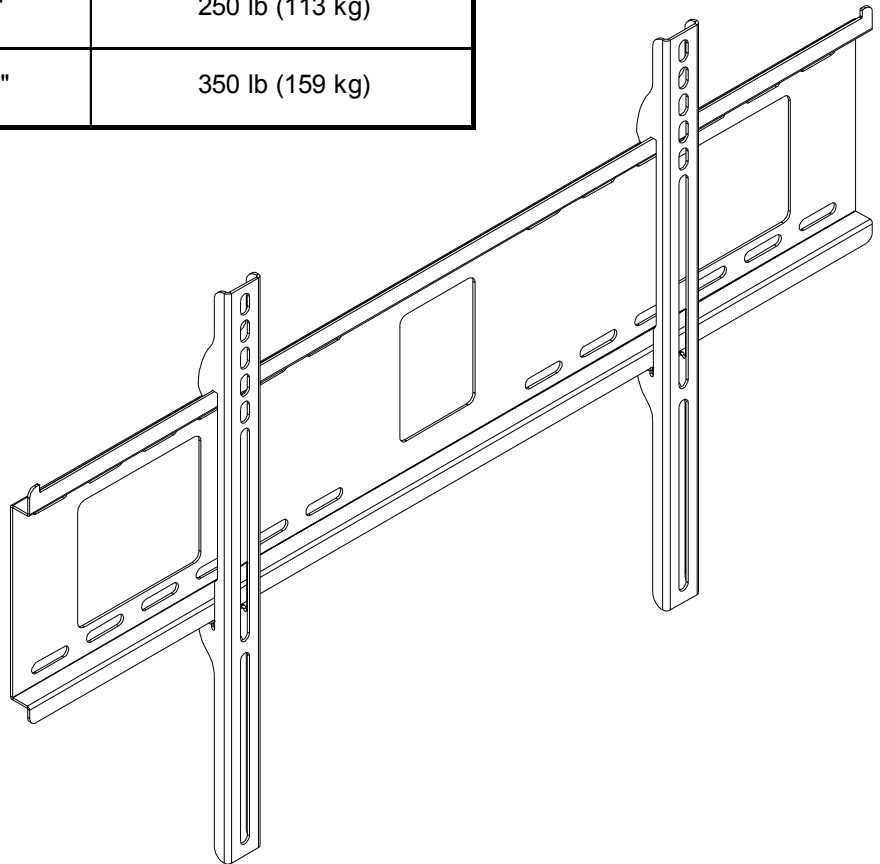
WALL PLATE DETAIL

Installation and Assembly: Universal Flat Wall Mount

Product is UL rated for screen size range and load capacity _____ per chart below



Model #	Screen Size Range	Max UL Load Capacity
D-FPF-220, D-FPF-220S, SF 640, SF 640-S, SF 640P, SF 640P-S, RTFPF-220, RTFPF-220S	23"-46"	150 lb (68 kg)
D-FPF-320, D-FPF-320S, SF 660, SF 660-S, SF 660P, SF 660P-S, RTFPF-320, RTFPF-320S	32"-60"	200 lb (91 kg)
SF 670, SF 670-S, SF 670P, SF 670P-S	42"-71"	250 lb (113 kg)
SF 680, SF 680-S, SF 680P, SF 680P-S	61"-102"	350 lb (159 kg)



Features:

- For flat panel screens
- Ultra-slim design holds the screen flat against the wall
- Screen simply hooks onto the wall plate for quick and easy installation
- Includes hardware for installation to wood studs, concrete, and cinder block

Note: Read entire instruction sheet before you start installation and assembly.

⚠ WARNING

- Do not begin to install your Peerless product until you have read and understood the instructions and warnings contained in this Installation Sheet. If you have any questions regarding any of the instructions or warnings, please call Peerless customer care at 1-800-729-0307.
- This product should only be installed by someone of good mechanical aptitude, has experience with basic building construction, and fully understands these instructions.
- Make sure that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.
- Never exceed the Maximum UL Load Capacity. See page one.
- If mounting to wood wall studs, make sure that mounting screws are anchored into the center of the studs. Use of an "edge to edge" stud finder is highly recommended.
- Always use an assistant or mechanical lifting equipment to safely lift and position equipment.
- Tighten screws firmly, but do not overtighten. Overtightening can damage the items, greatly reducing their holding power.

Tools Needed for Assembly

- stud finder ("edge to edge" stud finder is recommended)
- phillips screwdriver
- drill
- 1/4" bit for concrete and cinder block wall
- 1/2" bit for metal stud wall
- 5/32" bit for metal or wood stud wall
- level

Accessories

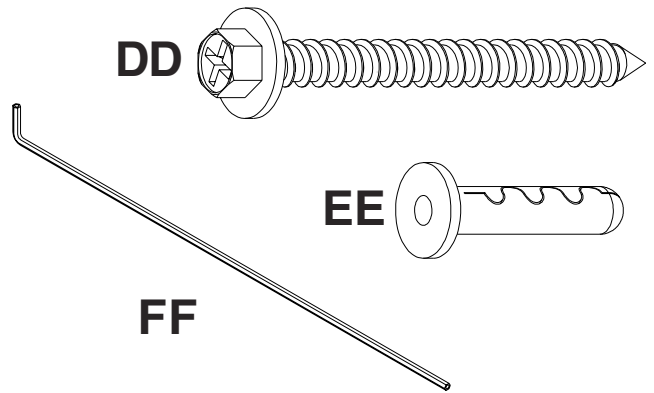
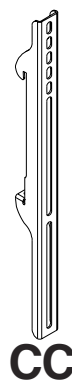
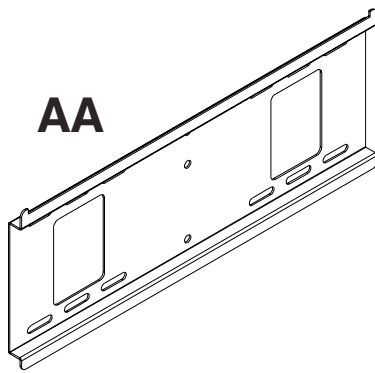
- 4 piece Metal Stud Fastener Kit (ACC 415) (Metal Stud not evaluated by UL)
- 2 piece Metal Stud Fastener Kit (ACC 215) (Metal Stud not evaluated by UL)

Table of Contents

Parts List	3
Installation to Double Wood Stud Wall	4
Installation to Triple Wood Stud Wall	5
Installation to Solid Concrete or Cinder Block	6
Installing Adapter Brackets	7
Installing Flat Panel Screen to Wall Plate	8

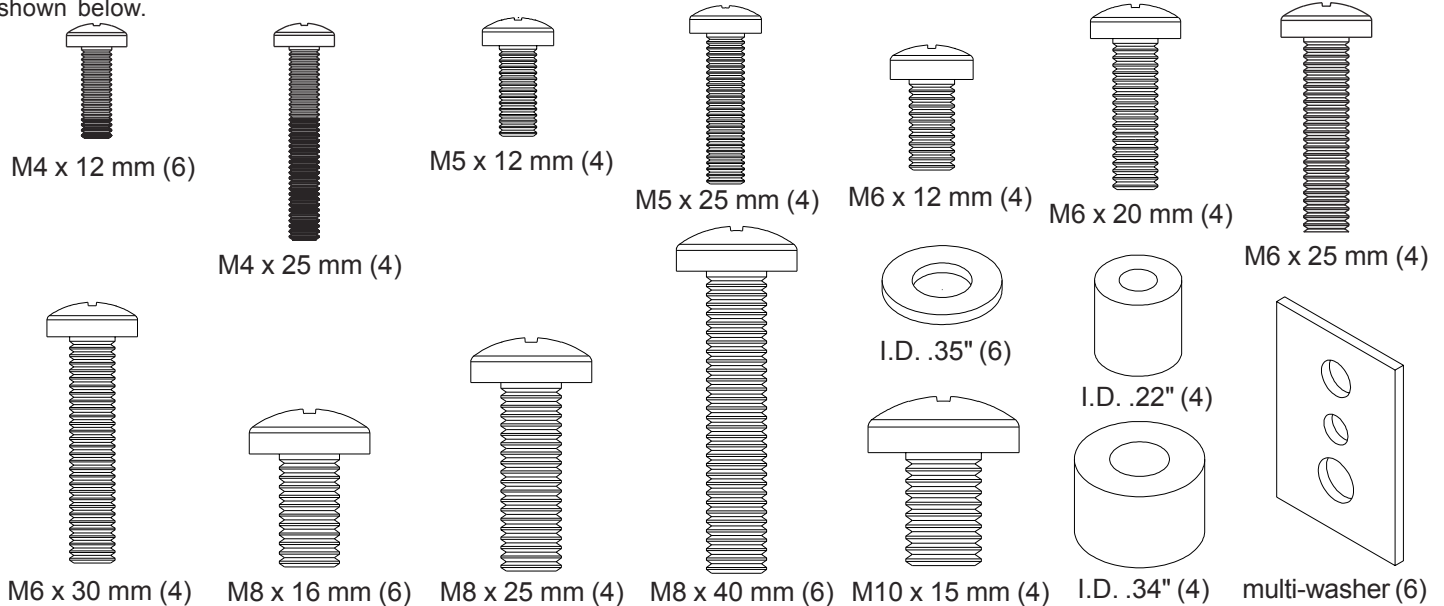
For customer care call (800) 729-0307 or (708) 865-8870.

				<i>Before you begin, make sure all parts shown are included with your product. Parts may appear slightly different than illustrated.</i>			
D-FPPF-220, D-FPPF-220S, SF 640, SF 640-S, SF 640P, SF 640P-S, RTFPF-220, RTFPF-220S D-FPPF-320, D-FPPF-320S, SF 660, SF 660-S, SF 660P, SF 660P-S, RTFPF-320, RTFPF-320S SF 670, SF 670-S, SF 670P, SF 670P-S SF 680, SF 680-S, SF 680P, SF 680P-S	Parts List		Non-Security		Security		
	Description	Qty.	Black Part Number	Silver Part Number	Black Part Number	Silver Part Number	
✓		AA wall plate (double stud)	1	200-1797	200-4797	200-1797	200-4797
	✓	(double stud)		201-1018	201-4018	201-1018	201-4018
		(triple stud)		200-1901	200-4901	200-1901	200-4901
		(triple stud)		200-1902	200-4902	200-1902	200-4902
✓		BB adapter bracket	2	200-0758	200-0759	200-0760	200-0761
	✓			200-0754	200-0755	200-0756	200-0757
				200-0940	200-0941	200-0942	200-0943
				200-0944	200-0945	200-0946	200-0947
	✓	CC deep adapter bracket	2	200-0750	200-0751	200-0752	200-0753
✓	✓	DD #14 x 2.5 wood screw	4	5S1-015-C03	5S1-015-C03	5S1-015-C03	5S1-015-C03
			6	5S1-015-C03	5S1-015-C03	5S1-015-C03	5S1-015-C03
✓	✓	EE Alligator® anchor	4	590-0097	590-0097	590-0097	590-0097
			6	590-0097	590-0097	590-0097	590-0097
✓	✓	FF 4 mm allen wrench	1	560-1131	560-1131	560-1131	560-1131
	✓		1	560-1146	560-1146	560-1146	560-1146



Adapter Bracket Fasteners

Note: The sorted-for-you™ fastener pack included was made specifically for your product and may not contain all components shown below.



Installation to Double Wood Stud Wall

⚠ WARNING

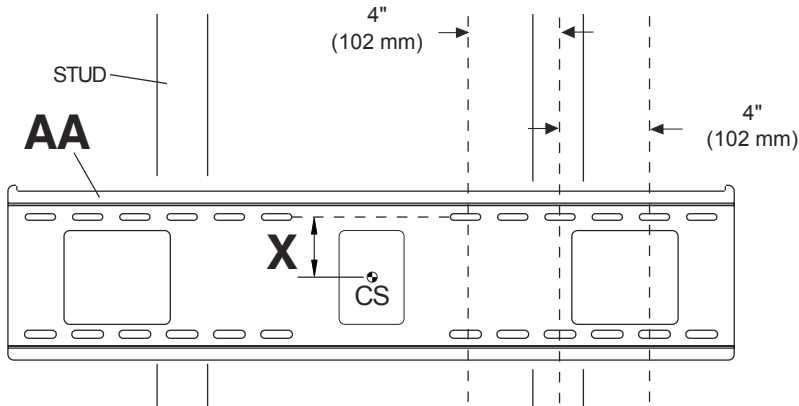
- Installer must verify that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.
- Tighten wood screws so that wall plate is firmly attached, but do not overtighten. Overtightening can damage the screws, greatly reducing their holding power.
- Never tighten in excess of 80 in. • lb (9 N.M.).
- Make sure that mounting screws are anchored into the center of the stud. The use of an "edge to edge" stud finder is highly recommended.
- Hardware provided is for attachment of mount through standard thickness drywall or plaster into wood studs. Installers are responsible to provide hardware for other types of mounting situations.

Note: If mounting equipment weighing greater than 200 lbs, triple stud mounting is strongly recommended.
Skip to page 5.

1 Wall plate (**AA**) can be mounted to two studs that are 16" apart. Use a stud finder to locate the edges of the studs. Use of an edge-to-edge stud finder is highly recommended. Based on their edges, draw a vertical line down each stud's center. Place wall plate on wall as a template. The top mounting slots should be located above the desired screen center as indicated by dimension **X** in figure 1.1 and chart below. Level plate, and mark the center of the four mounting holes. Make sure that the mounting holes are on the stud centerlines. Drill four 5/32" (4 mm) dia. holes 2-1/2" (65 mm) deep. Make sure that the wall plate is level, secure it using four #14 x 2.5" wood screws (**DD**) as shown in figure 1.2.

Note: Wall plate may be mounted up to 4" (102 mm) off center as shown in figure 1.1.

Skip to step 2 on page 7.



CS = center of screen

fig. 1.1

Model #	X Dimension
SF 640, SF 640-S, SF 640P, SF 640P-S, RTFPF-220, RTFPF-220S	2.5" (64 mm)
SF 660, SF 660-S, SF 660P, SF 660P-S, RTFPF-320, RTFPF-320S	4-5/8" (117 mm)

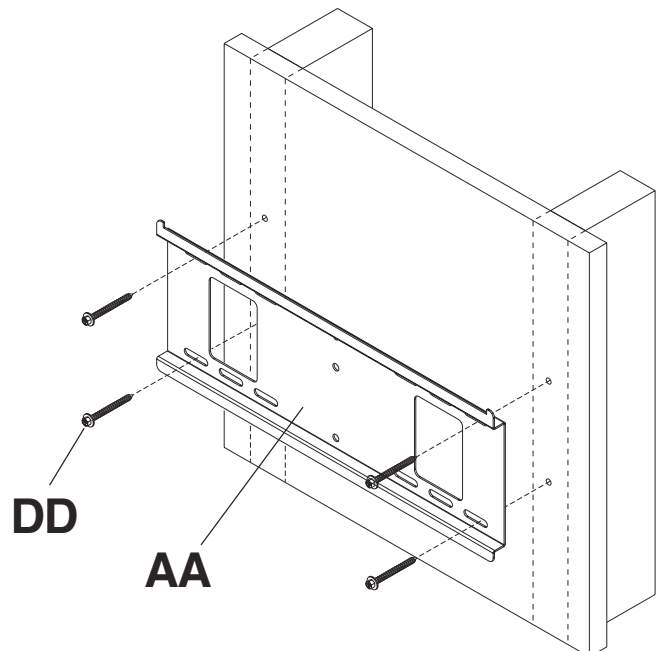


fig. 1.2

Installation to Triple Wood Stud Wall

⚠ WARNING

- Installer must verify that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.
- Tighten wood screws so that wall plate is firmly attached, but do not overtighten. Overtightening can damage the screws, greatly reducing their holding power.
- Never tighten in excess of 80 in. • lb (9 N.M.).
- Make sure that mounting screws are anchored into the center of the stud. The use of an "edge to edge" stud finder is highly recommended.
- Hardware provided is for attachment of mount through standard thickness drywall or plaster into wood studs. Installers are responsible to provide hardware for other types of mounting situations.

1 Wall plate (**AA**) can be mounted to three studs that are 16" apart. Use a stud finder to locate the edges of the studs. Use an edge-to-edge stud finder is highly recommended. Based on their edges, draw a vertical line down each stud's center. Place wall plate on wall as a template. The top mounting slots should be located above the desired screen center as indicated by dimension **X** in figure 1.3 and chart below. Level plate, and mark the center of the six mounting holes. Make sure that the mounting holes are on the stud centerlines. Drill six 5/32" (4 mm) dia. holes 2-1/2" (65 mm) deep. Make sure that the wall plate is level, secure it using six #14 x 2.5" wood screws (**DD**) as shown in figure 1.4.

Note: When mounting equipment weighing greater than 200 lbs, triple stud mounting is strongly recommended. If mounting to two studs on 16" centers, leave an open stud in center. Wall plate may be mounted up to 6" (152 mm) off-center as shown in figure 1.3.

Skip to step 2 on page 7.

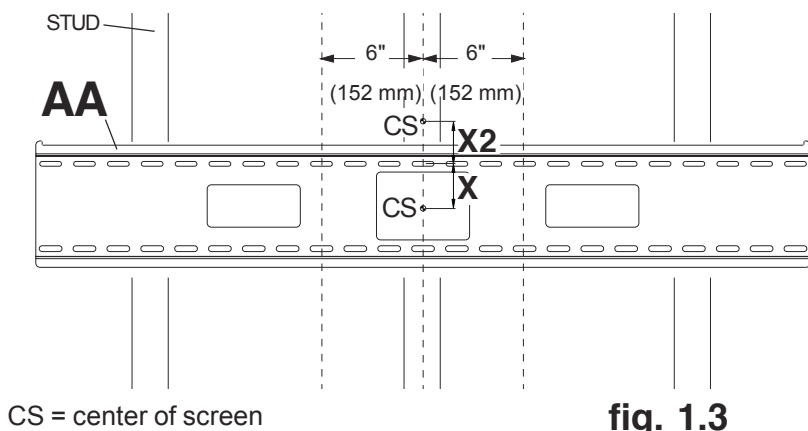


fig. 1.3

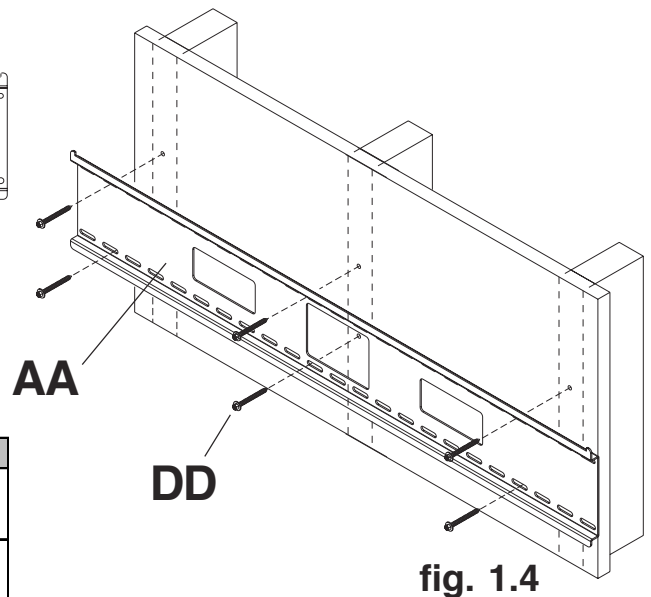


fig. 1.4

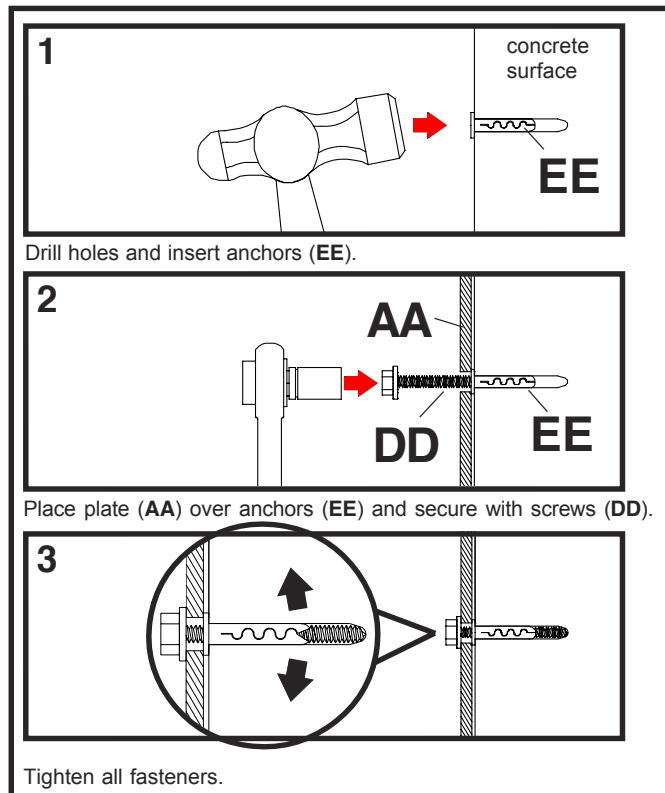
Model #	X Dimension	X2 Dimension
SF 670, SF 670-S, SF 670P, SF 670P-S	n/a	3/4" (19 mm)
SF 680, SF 680-S, SF 680P, SF 680P-S	3-3/4" (95 mm)	n/a

Installation to Solid Concrete or Cinder Block

⚠ WARNING

- When installing Peerless wall mounts on cinder block, verify that you have a minimum of 1-3/8" of actual concrete thickness in the hole to be used for the concrete anchors. Do not drill into mortar joints! Be sure to mount in a solid part of the block, generally 1" minimum from the side of the block. Cinder block must meet ASTM C-90 specifications. It is suggested that a standard electric drill on slow setting is used to drill the hole instead of a hammer drill to avoid breaking out the back of the hole when entering a void or cavity.
- Concrete must be 2000 psi density minimum. Lighter density concrete may not hold concrete anchor.
- Installer must verify that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.

- 1** Make sure that wall plate (AA) is level, use it as a template to mark four mounting holes. The top mounting slots should be located above the desired screen center as indicated by dimension X in figure 1.1 and charts on pages 4 and 5. Drill four 1/4" (6 mm) dia. holes to a minimum depth of 2.5" (64 mm). Insert anchors (EE) in holes flush with wall as shown (right). Place wall plate over anchors and secure with #14 x 2.5" screws (DD). Level, then tighten all fasteners.
- Note:** Six holes and six sets of fasteners are required when mounting the wall plate for equipment weighing greater than 200 lbs.

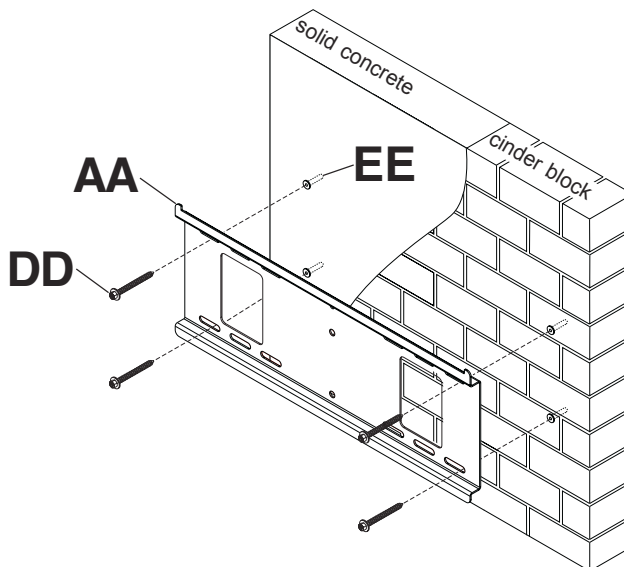
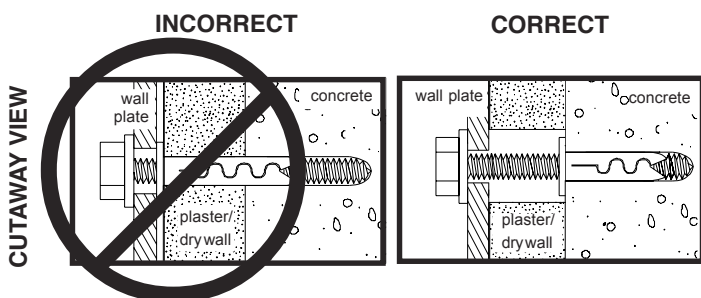


⚠ WARNING

- Tighten screws so that wall plate is firmly attached, but do not overtighten. Overtightening can damage screws, greatly reducing their holding power.
- Never tighten in excess of 80 in. • lb (9 N.M.).

⚠ WARNING

- Always attach concrete anchors directly to load-bearing concrete.
- Never attach concrete anchors to concrete covered with plaster, drywall, or other finishing material. If mounting to concrete surfaces covered with a finishing surface is unavoidable, the finishing surface must be counterbored as shown below. Be sure concrete anchors do not pull away from concrete when tightening screws. If plaster/drywall is thicker than 5/8", custom fasteners must be supplied by installer.



Installing Adapter Brackets

Refer to **Screen Compatibility Chart** to determine the proper fasteners to use.

- 2** To prevent scratching the screen, set a cloth on a flat, level surface that will support the weight of the screen. Place screen face side down. If screen has knobs on the back, remove them to allow the adapter brackets to be attached. Place adapter brackets (**BB or CC**) on back of screen, align to holes, and center on back of screen as shown in figure 2.1. Attach the adapter brackets to the back of the screen using the appropriate combination of screws, multi-washers, and spacers as shown in figure 2.3.

Note: Top and bottom holes must always be used.

Verify that all holes are properly aligned, and then tighten screws using a phillips screwdriver.

⚠ WARNING

- Tighten screws so adapter brackets are firmly attached. Do not tighten with excessive force. Overtightening can cause stress damage to screws, greatly reducing their holding power and possibly causing screw heads to become detached. Tighten to 40 in. • lb (4.5 N.M.) maximum torque.
- If screws don't get three complete turns in the screen inserts or if screws bottom out and bracket is still not tightly secured, damage may occur to screen or product may fail.

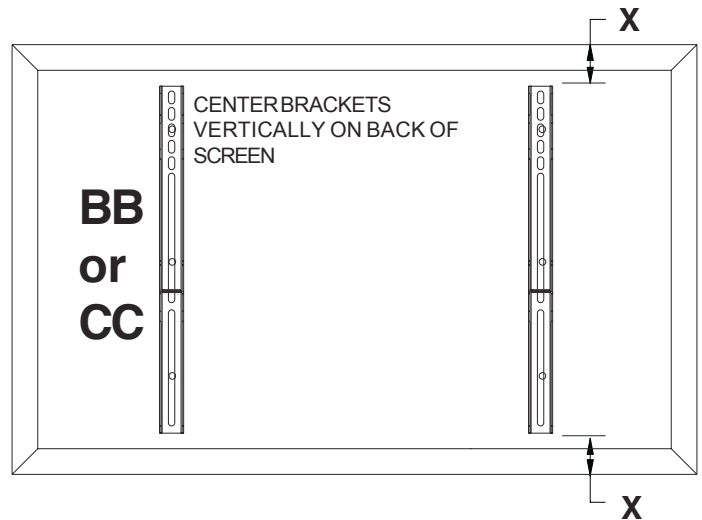


fig 2.1

Note: "X" dimensions should be equal.

Notes:

- The number of fasteners used will vary, depending upon the type of screen.
- Multi-washers and spacers may not be used, depending upon the type of screen.
- Use the corresponding hole in the multi-washer that matches your screw size as shown in figure 2.2.

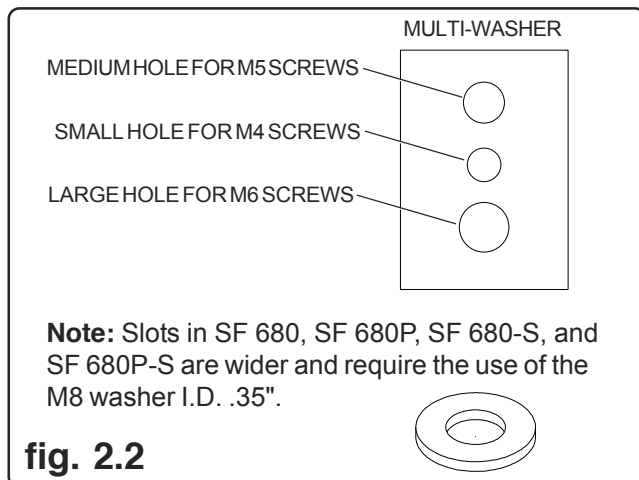


fig. 2.2

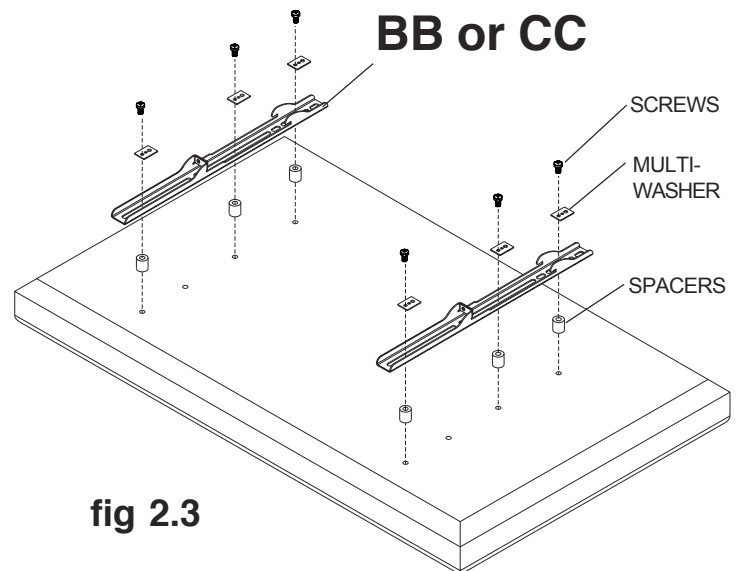


fig 2.3

Mounting and Removing Flat Panel Screen

- 3** Hook adapter brackets (**BB or CC**) onto wall plate (**AA**). Then slowly swing screen in as shown. Turn safety/security screws, using security allen wrench (**FF**), clockwise at least six times to prevent screen from being removed as shown in detail 1 of figure 3.1.

Screen can be adjusted horizontally if desired as shown in figure 3.2.

Note: To lock the screen down, tighten safety/security screws to wall plate as shown in detail 1.

To remove screen from mount, loosen safety/security screws, swing screen away from mount, and lift screen off of mount.

⚠ WARNING

- Always use an assistant or mechanical lifting equipment to safely lift and position the plasma television.

CAUTION

- Do not tighten screws with excessive force. Overtightening can cause damage to mount. Tighten screws to 40 in. • lb (4.5 N.M.) maximum torque.

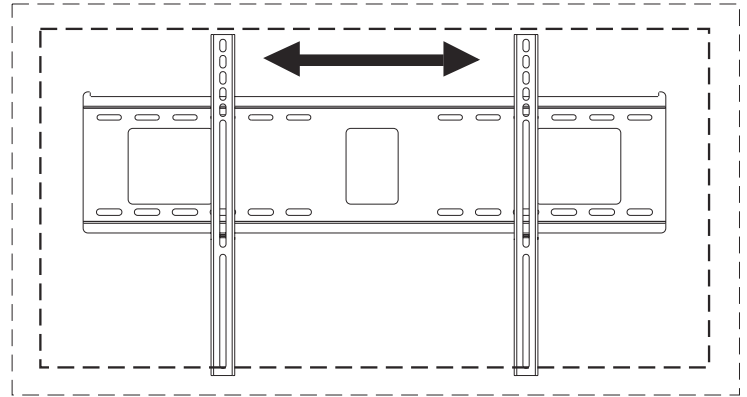


fig 3.2

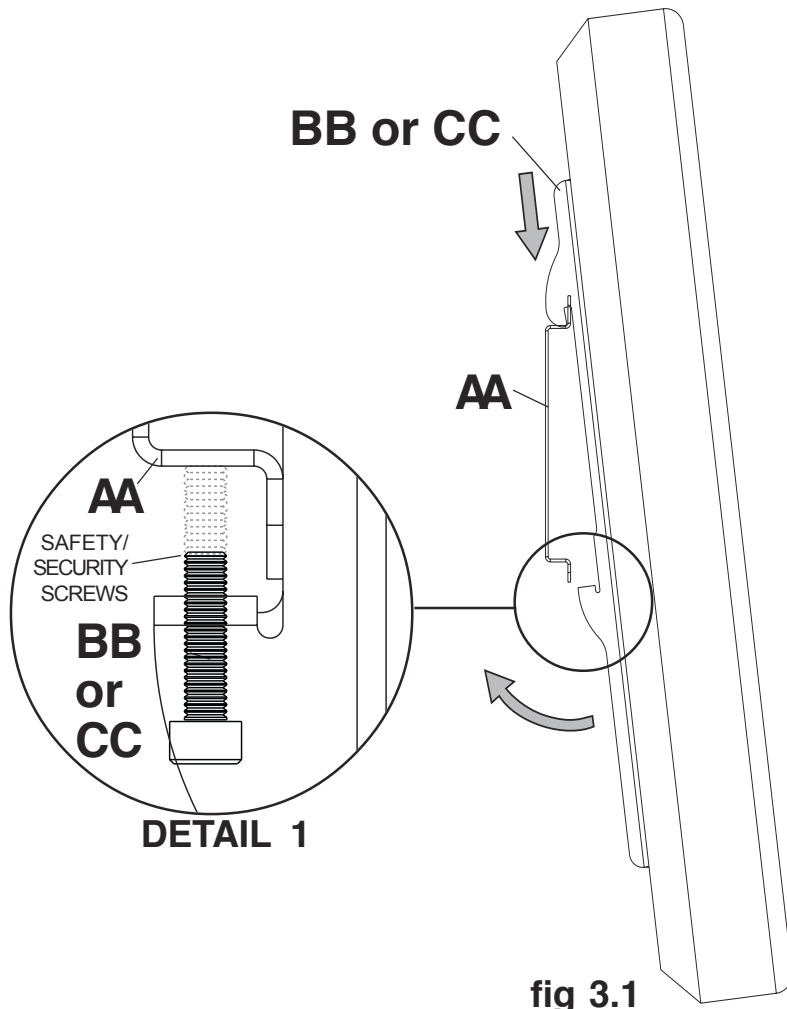


fig 3.1

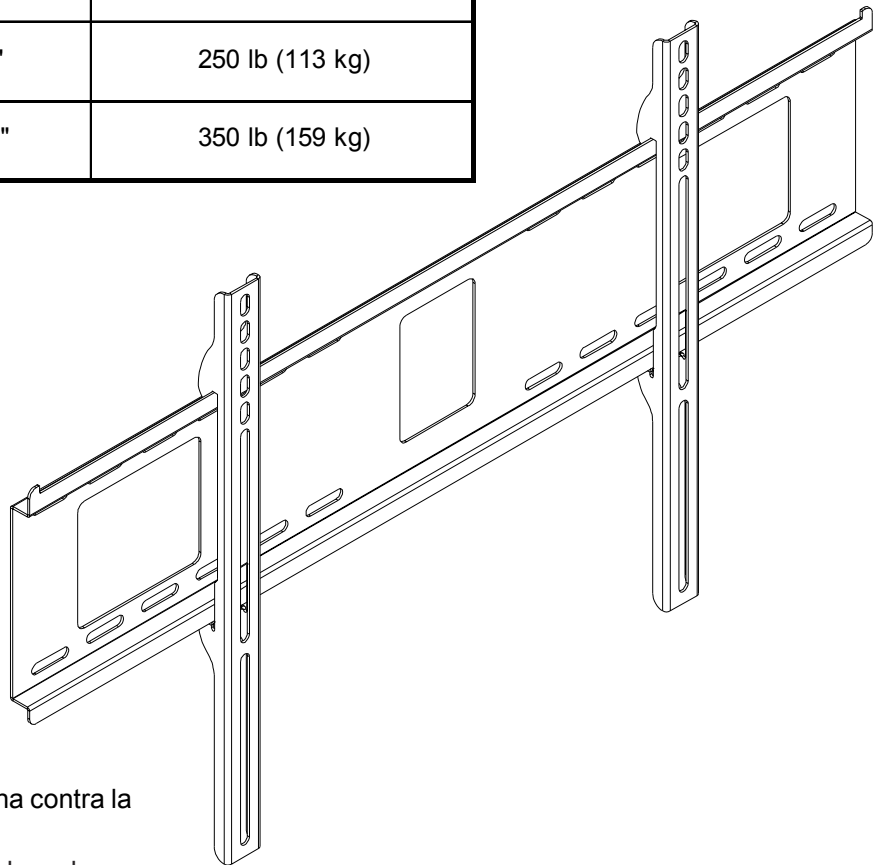
Instalación y montaje:

Soporte universal plano de pared

Este producto está clasificado por Underwriters Laboratories (UL) para utilizarse con pantallas dentro de las gamas de tamaños y de la capacidad de soportar carga _____ según lo indicado en la tabla que aparece continuación.



Nº de modelo	Gama de tamaños de la pantalla	Capacidad máxima de soportar carga según UL:
D-FPF-220, D-FPF-220S, SF 640, SF 640-S, SF 640P, SF 640P-S, RTFPF-220, RTFPF-220S	23"-46"	150 lb (68 kg)
D-FPF-320, D-FPF-320S, SF 660, SF 660-S, SF 660P, SF 660P-S, RTFPF-320, RTFPF-320S	32"-60"	200 lb (91 kg)
SF 670, SF 670-S, SF 670P, SF 670P-S	42"-71"	250 lb (113 kg)
SF 680, SF 680-S, SF 680P, SF 680P-S	61"-102"	350 lb (159 kg)



Características:

- Para pantallas planas
- El diseño ultra delgado sujeta la pantalla plana contra la pared
- La pantalla simplemente se engancha en la placa de apoyo para una instalación rápida y fácil
- Incluye los herrajes para instalación en montantes de madera, concreto y bloques de hormigón de escorias

Nota: Lea toda la hoja de instrucciones antes de iniciar la instalación y el montaje.

⚠ ADVERTENCIA

- No comience la instalación de su producto Peerless sin antes leer y comprender las instrucciones y los avisos de precaución contenidos en esta hoja de instalación. Ante cualquier duda respecto a las instrucciones o avisos de precaución, llame al departamento de servicio al cliente de Peerless al 1-800-729-0307.
- Este producto debe instalarlo una persona con buenas aptitudes mecánicas, experiencia en la construcción básica de edificios y una comprensión total de estas instrucciones.
- Asegúrese de que la superficie de apoyo sea capaz de soportar firmemente la carga combinada del equipo y todos los herrajes y componentes.
- Nunca sobrepase la capacidad máxima de soportar carga aceptada por Underwriters Laboratories. Vea la página uno.
- Si la instalación va a hacerla en paredes con montantes de madera, asegúrese de que los tornillos de montaje estén anclados en el centro de los montantes. Se recomienda usar un localizador de montantes de “borde a borde”.
- Siempre solicite la ayuda de un asistente o utilice un equipo de izar mecánico para levantar y colocar el equipo con más seguridad.
- Apriete los tornillos firmemente, pero no en exceso. El apriete excesivo puede dañar los artículos, reduciendo enormemente su fuerza de fijación.

Herramientas necesarias para el montaje

- localizador de montantes (se recomienda usar el de “borde a borde”)
- destornillador phillips
- taladro
- broca de 1/4" para pared de concreto y de bloques de hormigón de escorias
- broca de 1/2" para pared con montantes de metal
- broca de 5/32" para pared con montantes de metal o madera
- nivel

Accesorios

- Juego de 4 piezas de fijaciones para montantes de metal (ACC 415) (montante de metal no evaluado por UL)
- Juego de 2 piezas de fijaciones para montantes de metal (ACC 215) (montante de metal no evaluado por UL)

Contenido

Lista de piezas	11
Instalación en una pared con montantes de madera dobles	12
Instalación en una pared con montantes de madera triples	13
Instalación en una pared de concreto macizo o de bloques de hormigón de escorias	14
Instalación de los soportes adaptadores	15
Instalación de la pantalla plana en la placa de apoyo	16

Para atención al cliente, llame al (800) 729-0307 ó (708) 865-8870.

Instalación en una pared con montantes de madera dobles

⚠ ADVERTENCIA

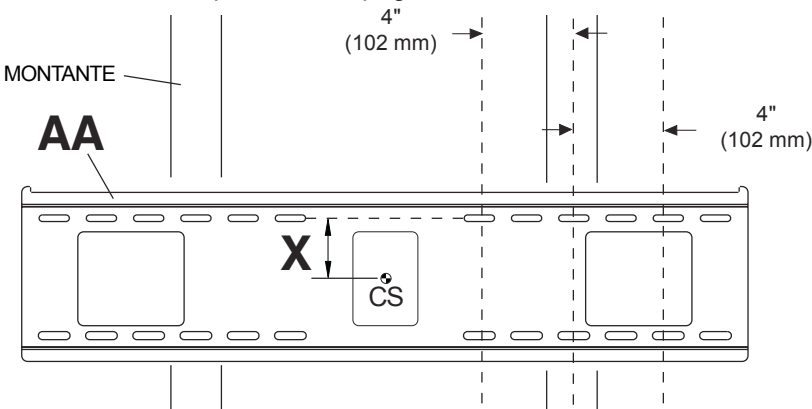
- El instalador debe verificar que la superficie de apoyo sea capaz de soportar firmemente la carga combinada del equipo y todos los herrajes y componentes.
- Apriete los tornillos para madera de tal modo que la placa de apoyo quede firmemente sujeta, pero no apriete en exceso. El apriete excesivo puede dañar los tornillos, reduciendo enormemente su fuerza de fijación.
- Nunca apriete más de 80 pulg-lb (9 N•m).
- Asegúrese de que los tornillos de montaje queden bien fijos en el centro del montante. Se recomienda usar un localizador de montantes de "borde a borde".
- Los herrajes suministrados son para fijar el soporte a través de tabique de yeso-cartón o yeso de espesor estándar a los montantes de madera. Los instaladores son responsables de suministrar los herrajes para otros tipos de situaciones de montaje.

Nota: Si el peso del equipo de montaje es mayor que 200 lbs, se recomienda utilizar montantes triples.
Pase a la página 13.

- 1** La placa de apoyo (**AA**) puede fijarse a dos montantes con una separación de 16" entre ellos. Utilice un localizador de montantes para ubicar los bordes de los montantes. Se recomienda usar un localizador de montantes de "borde a borde". Basado en sus bordes, trace una línea vertical por el centro de cada montante. Coloque la placa de apoyo en la pared para usarla como plantilla. Las ranuras de montaje superiores deben quedar ubicadas más arriba del centro de la pantalla, como lo indica la dimensión **X** en la figura 1.1 y la tabla que aparece a continuación. Nivele la placa y marque el centro de los cuatro agujeros. Asegúrese de que los agujeros de montaje se encuentren en la línea central de los montantes. Taladre cuatro agujeros de 5/32" (4 mm) de diámetro y 2-1/2" (65 mm) de profundidad. Asegúrese de que la placa de apoyo esté nivelada, fijela con los cuatro tornillos para madera N° 14 x 2.5" (**DD**), como se muestra en la figura 1.2.

Nota: La placa de apoyo puede instalarse hasta 4" (102 mm) desplazada del centro, como se muestra en la figura 1.1.

Proceda al paso 2 en la página 15.



CS = centro de la pantalla

fig. 1.1

N° de modelo	Dimensión X
SF 640, SF 640-S, SF 640P, SF 640P-S, RTFPF-220, RTFPF-220S	2.5" (64 mm)
SF 660, SF 660-S, SF 660P, SF 660P-S, RTFPF-320, RTFPF-320S	4-5/8" (117 mm)

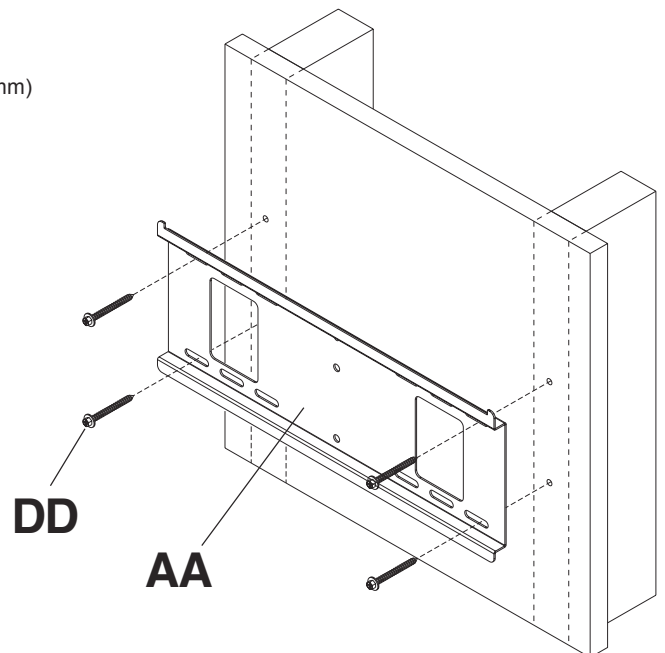


fig. 1.2

Instalación en una pared con montantes de madera triples

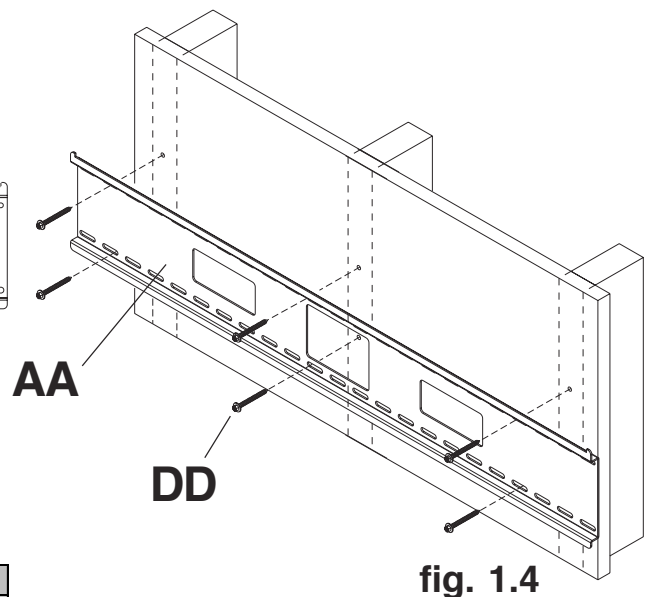
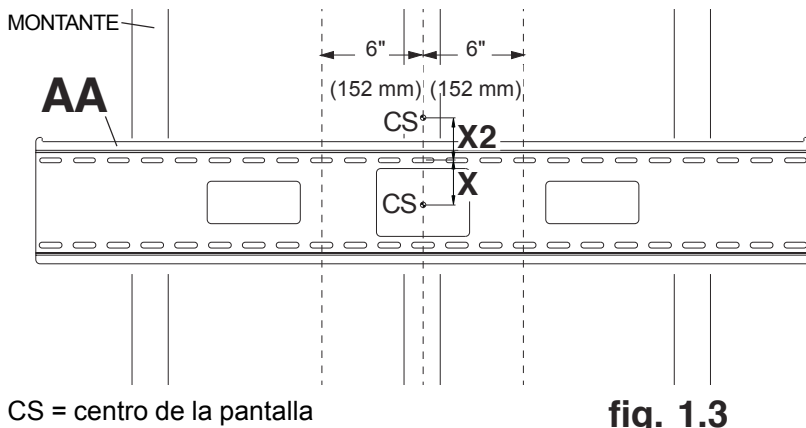
⚠ ADVERTENCIA

- El instalador debe verificar que la superficie de apoyo sea capaz de soportar firmemente la carga combinada del equipo y todos los herrajes y componentes.
- Apriete los tornillos para madera de tal modo que la placa de apoyo quede firmemente sujeta, pero no apriete en exceso. El apriete excesivo puede dañar los tornillos, reduciendo enormemente su fuerza de fijación.
- Nunca apriete más de 80 pulg-lb (9 N•m).
- Asegúrese de que los tornillos de montaje queden bien fijos en el centro del montante. Se recomienda usar un localizador de montantes de “borde a borde”.
- Los herrajes suministrados son para fijar el soporte a través de tabique de yeso-cartón o yeso de espesor estándar a los montantes de madera. Los instaladores son responsables de suministrar los herrajes para otros tipos de situaciones de montaje.

1 La placa de apoyo (**AA**) puede fijarse a tres montantes con una separación de 16" entre ellos. Utilice un localizador de montantes para ubicar los bordes de los montantes. Se recomienda usar un localizador de montantes de “borde a borde”. Basado en sus bordes, trace una línea vertical por el centro de cada montante. Coloque la placa de apoyo en la pared para usarla como plantilla. Las ranuras de montaje superiores deben quedar ubicadas más arriba del centro de la pantalla, como lo indica la dimensión **X** en la figura 1.3 y la tabla que aparece a continuación. Nivele la placa y marque el centro de los seis agujeros de montaje. Asegúrese de que los agujeros de montaje se encuentren en la línea central de los montantes. Taladre seis agujeros de 5/32" (4 mm) de diámetro y 2-1/2" (65 mm) de profundidad. Asegúrese de que la placa de apoyo esté nivelada, fíjela con los cuatro tornillos para madera N° 14 x 2.5" (**DD**), como se muestra en la figura 1.4.

Nota: Si el peso del equipo de montaje es mayor que 200 lbs, se recomienda utilizar montantes triples. Si está instalando en dos montantes con 16" entre centros, deje un montante abierto en el centro. La placa de apoyo puede instalarse hasta 6" (152 mm) desplazada del centro, como se muestra en la figura 1.3.

Proceda al paso 2 en la página 15.



N° de modelo	Dimensión X	Dimensión X2
SF 670, SF 670-S, SF 670P, SF 670P-S	n/a	3/4" (19 mm)
SF 680, SF 680-S, SF 680P, SF 680P-S	3-3/4" (95 mm)	n/a

Instalación en una pared de concreto macizo o de bloques de hormigón de escorias

⚠ ADVERTENCIA

- Cuando instale soportes de pared Peerless en bloques de hormigón de escorias, verifique que tengan un mínimo de 1-3/8" de superficie efectiva de concreto en el agujero que va a utilizar para los anclajes de concreto. ¡No perfore en las juntas de mortero! Asegúrese de instalar el soporte en una parte sólida del bloque, generalmente a un mínimo de 1" del costado del bloque. El bloque de hormigón de escorias debe ser de conformidad con las especificaciones C-90 de ASTM. Se sugiere taladrar el agujero con un taladro eléctrico normal en velocidad lenta en vez de un taladro percutor para evitar romper la parte trasera del agujero al entrar en un espacio o cavidad.
- El concreto debe tener una densidad mínima de 2000 psi. Un concreto menos denso podría no ser capaz de sujetar el anclaje para concreto.
- El instalador debe verificar que la superficie de apoyo sea capaz de soportar firmemente la carga combinada del equipo y todos los herrajes y componentes.

- 1** Asegúrese de que la placa de apoyo (**AA**) esté nivelada, utilícela como una plantilla para marcar los cuatro agujeros de montaje. El agujero de montaje superior debe estar ubicado más arriba del centro de la pantalla deseado, como lo indica la dimensión **X** en la figura 1.1 y las tablas en las páginas 4 y 5. Taladre cuatro agujeros de 1/4" (6 mm) de diámetro hasta una profundidad mínima de 2.5" (64 mm). Inserte los anclajes (**EE**) en los agujeros a ras con la pared, como se muestra (a la derecha). Coloque la placa de apoyo sobre los anclajes y fíjela con los tornillos N°14 x 2.5" (**DD**). Nivele y después apriete todas las fijaciones.

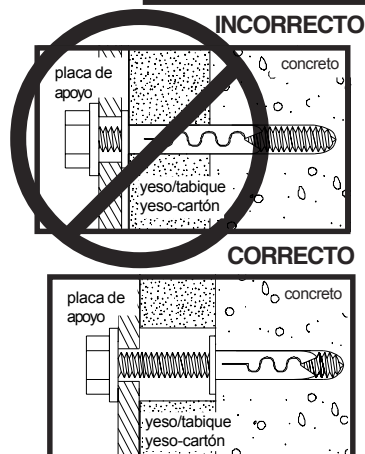
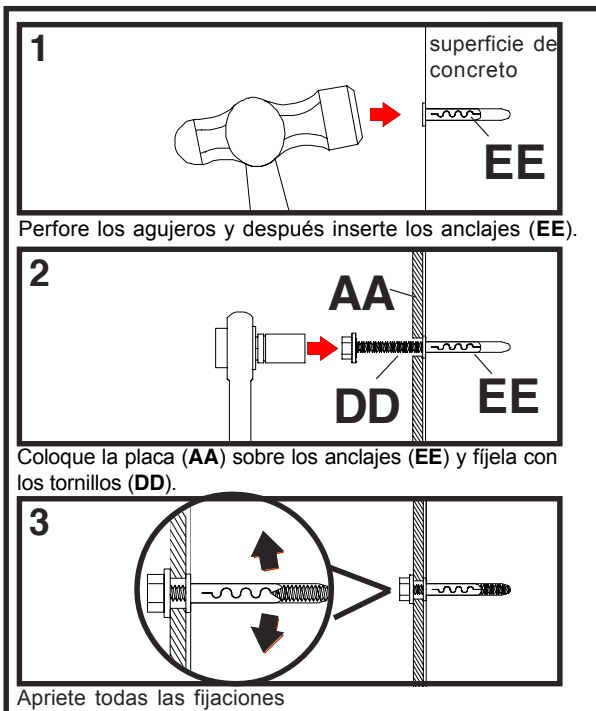
Nota: Se necesitan seis agujeros y seis juegos de fijaciones cuando se instala la placa de apoyo para un equipo cuyo peso es mayor que 200 lbs.

⚠ ADVERTENCIA

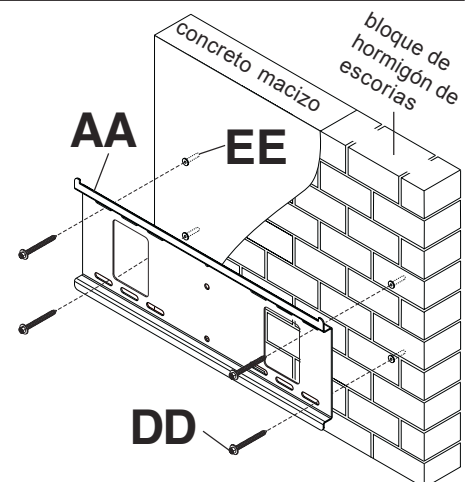
- Apriete los tornillos de tal modo que la placa de apoyo quede firmemente sujeta, pero no los apriete en exceso. El apriete excesivo puede dañar los tornillos, reduciendo enormemente su fuerza de fijación.
- Nunca apriete más de 80 pulg-lb (9 N•m).

⚠ ADVERTENCIA

- Siempre fije los anclajes de expansión directamente al concreto que soporta carga.
- Nunca fije los anclajes de expansión a una pared de concreto recubierta con yeso, tabiques de yeso-cartón u otro material de acabado. Si el montaje a superficies de concreto recubiertas con una superficie de acabado es inevitable, será necesario escariar el acabado, como se muestra más abajo. Asegúrese de que los anclajes de concreto no se alejen del concreto al apretar los tornillos. Si el grosor de la pared de yeso/tabique de yeso-cartón es mayor que 5/8", el instalador deberá suministrar fijaciones especiales.



VISTA EN CORTE



Instalación de los soportes adaptadores

Vea el **Cuadro de compatibilidad de pantallas** para determinar las fijaciones correctas que se deben usar.

- 2** Para evitar rayar la pantalla, coloque un trapo sobre una superficie plana y nivelada que soporte el peso de la pantalla. Coloque la pantalla boca abajo. Si la pantalla tiene perillas en la parte trasera, quítelas para poder fijar los soportes adaptadores. Coloque los soportes adaptadores (**BB o CC**) en la parte trasera de la pantalla, alinee con los agujeros, y centre en la parte trasera de la pantalla como se muestra en la figura 2.1. Fije los soportes adaptadores a la parte trasera de la pantalla utilizando la combinación correcta de tornillos, arandelas múltiples y espaciadores, como se muestra en la figura 2.3.

Nota: Siempre deben usarse los agujeros superiores e inferiores.

Verifique que todos los agujeros estén bien alineados, y después apriete los tornillos utilizando un destornillador phillips.

⚠ ADVERTENCIA

- Apriete los tornillos de tal modo que los soportes adaptadores queden firmemente sujetos. No apriete aplicando demasiada fuerza. El apriete excesivo puede causar daño por esfuerzo a los tornillos, reduciendo enormemente su fuerza de fijación y causando el posible desprendimiento de sus cabezas. Apriete los tornillos a 40 pulg-lb (4.5 N•m) de par torsor máximo.
- Si los tornillos no pueden atornillarse con tres vueltas completas en los insertos de la pantalla, o si los tornillos topan fondo y la placa todavía no está firmemente sujeta, se podría dañar la pantalla o causar la falla del producto.

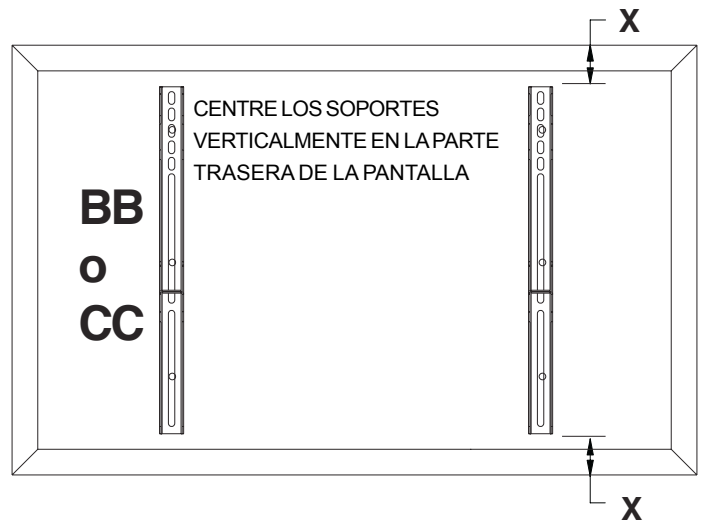
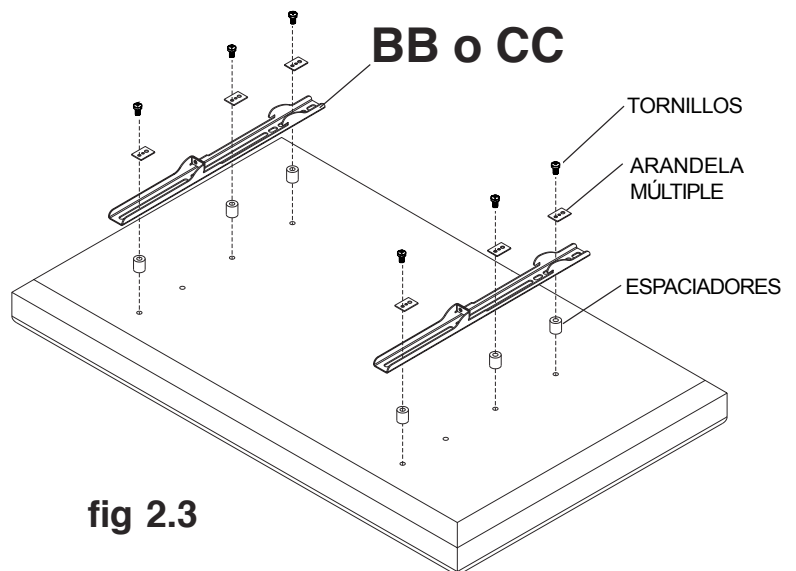
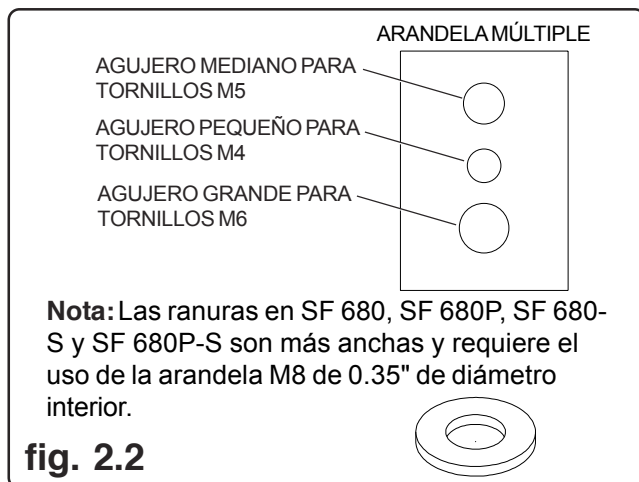


fig 2.1

Nota: Las dimensiones "X" deben ser iguales.

Notas:

- La cantidad de fijaciones utilizada variará según el tipo de pantalla.
- Es posible que no tenga que usar las arandelas múltiples y los espaciadores, dependiendo del tipo de pantalla.
- Use el agujero correspondiente en la arandela múltiple que coincida con el tamaño de su tornillo, como se muestra en la figura 2.2.



Montaje y desmontaje de la pantalla plana

3 Enganche los soportes adaptadores (**BB** o **CC**) en la placa de apoyo (**AA**). Después gire lentamente la pantalla hacia dentro, como se muestra. Con la ayuda de la llave allen (**FF**), gire los tornillos de seguridad en sentido horario, por lo menos seis veces, para evitar el desmontaje de la pantalla, como se muestra en el detalle 1 de la figura 3.1.

Si lo desea, la pantalla puede ajustarse en sentido horizontal, como se muestra en la figura 3.2.

Nota: Para trabar la pantalla, apriete los tornillos de seguridad a la placa de apoyo, como se muestra en el detalle 1.

Para desmontar la pantalla, afloje los tornillos de seguridad, gire la pantalla alejándola del soporte y levántela para desmontarla.

⚠ ADVERTENCIA

- Siempre solicite la ayuda de un asistente o utilice un equipo de izar mecánico para levantar y colocar el televisor de plasma con más seguridad.

ATENCIÓN

- No apriete los tornillos aplicando demasiada fuerza. El apriete excesivo podría dañar el soporte. Apriete los tornillos a 40 pulg-lb (4.5 N•m) de par torsor máximo.

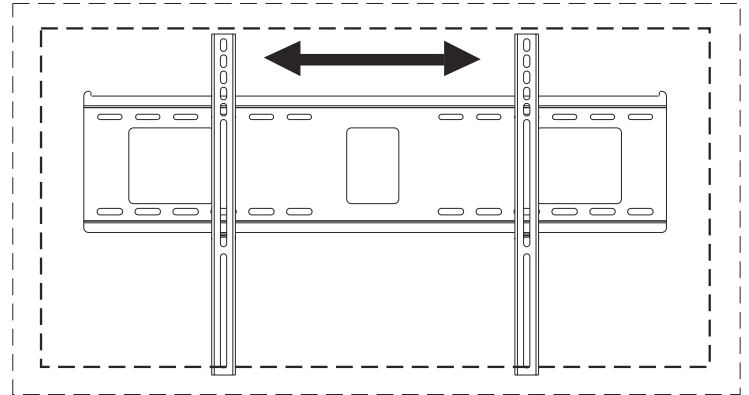


fig 3.2

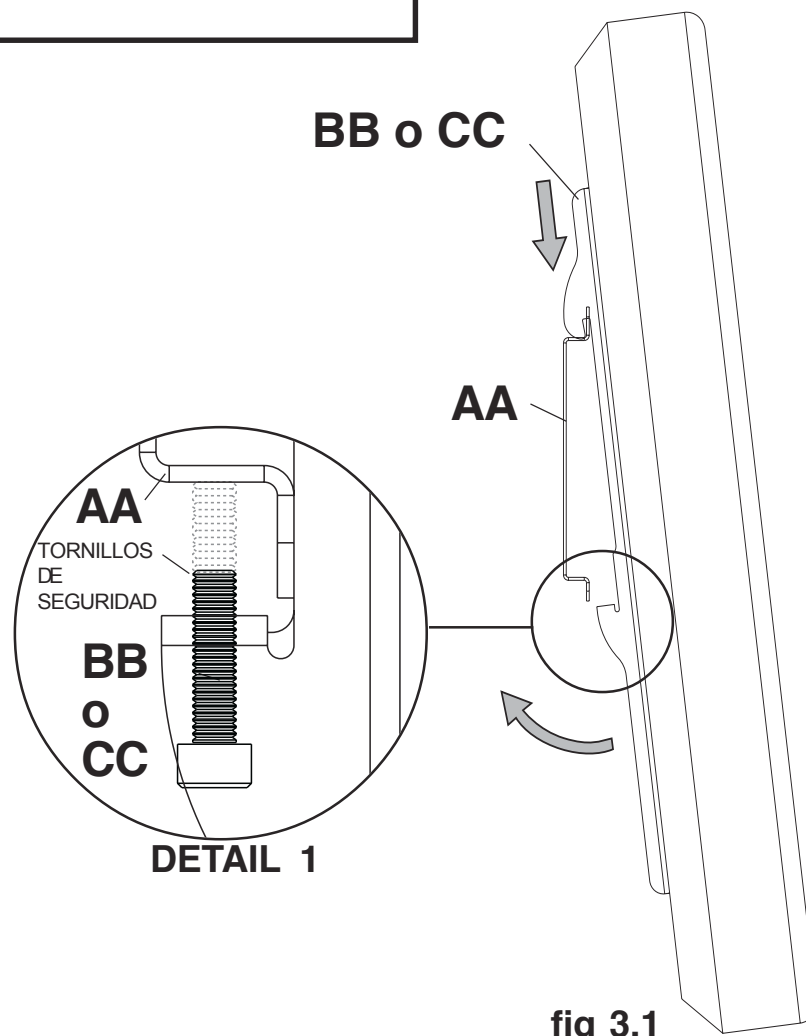


fig 3.1

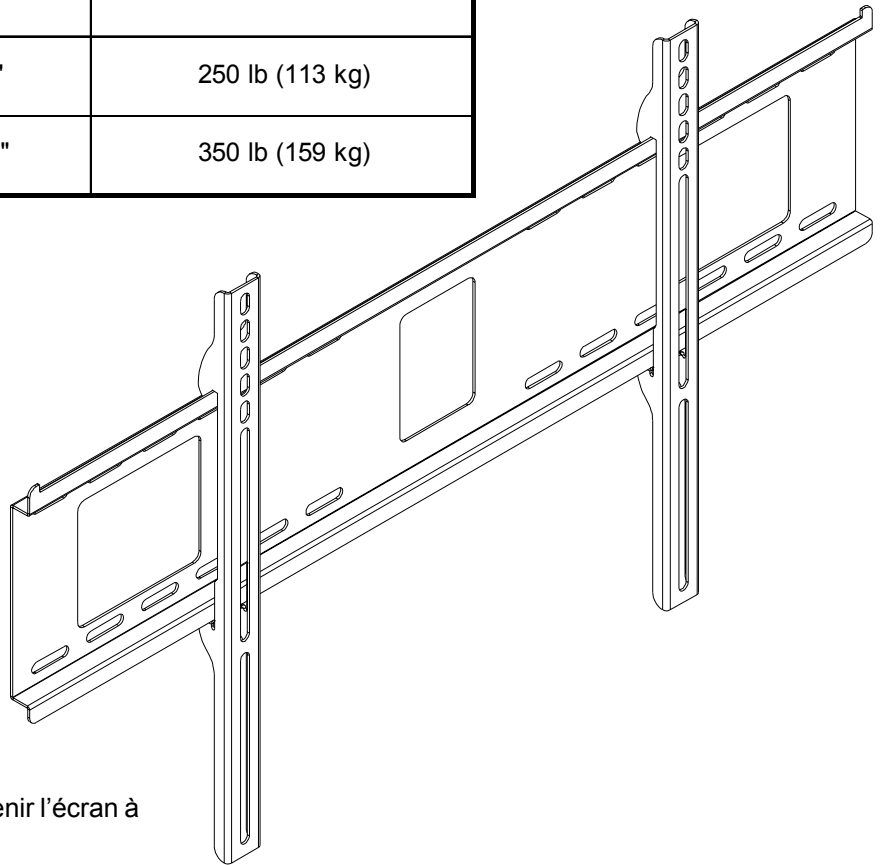
Installation et assemblage :

Monture murale universelle pour écrans plats

Ce produit est évalué par l'Underwriter's Laboratory (UL) pour la plage de dimensions d'écrans et la capacité de charge de _____ indiquées dans le tableau ci-dessous



Modèle n°	Plage de dimensions d'écrans	Capacité de charge maximale établie par l'UL :
D-FPF-220, D-FPF-220S, SF 640, SF 640-S, SF 640P, SF 640P-S, RTFPF-220, RTFPF-220S	23"-46"	150 lb (68 kg)
D-FPF-320, D-FPF-320S, SF 660, SF 660-S, SF 660P, SF 660P-S, RTFPF-320, RTFPF-320S	32"-60"	200 lb (91 kg)
SF 670, SF 670-S, SF 670P, SF 670P-S	42"-71"	250 lb (113 kg)
SF 680, SF 680-S, SF 680P, SF 680P-S	61"-102"	350 lb (159 kg)



Caractéristiques:

- Pour les écrans plats
- Conception ultra-mince permettant de maintenir l'écran à plat contre le mur
- L'écran s'accroche simplement sur la plaque murale, ce qui facilite son installation rapide
- Inclut la visserie pour l'installation sur montants en bois, béton et blocs de béton de mâchefer (OU parpaings)

Remarque : Lisez entièrement la fiche d'instructions avant de commencer l'installation et l'assemblage.

▲ AVERTISSEMENT

- Ne commencez pas à installer votre produit Peerless avant d'avoir lu et assimilé les instructions et les mises en garde contenues dans cette fiche d'installation. Pour toute question concernant les instructions ou les mises en garde, appelez le service à la clientèle de Peerless au 1-800 729-0307.
- Ce produit ne doit être installé que par une personne ayant de bonnes aptitudes en mécanique, expérimentée en travaux de construction de base, et démontrant une parfaite compréhension de ces instructions.
- Assurez-vous que la surface de support pourra soutenir sans danger la charge combinée de l'équipement, de toute sa visserie et de tous ses composants.
- Ne dépassez jamais la capacité de charge maximum établie par l'UL. Reportez-vous à la page 1.
- Si vous effectuez le montage sur un mur à montants en bois, assurez-vous que les vis de montage sont ancrées au centre des montants. L'usage d'un localisateur « bord à bord » est fortement conseillé.
- Pour lever et positionner l'équipement en toute sécurité, faites-vous toujours aider par une autre personne ou utilisez un matériel de levage mécanique.
- Serrez fermement les vis, mais sans excès. Un serrage excessif peut endommager les éléments et en réduire considérablement le pouvoir de maintien.

Outils nécessaires pour l'assemblage

- localisateur de montants (le localisateur de montants « bord à bord » est recommandé)
- tournevis cruciforme
- perceuse
- mèche de 0,62 cm (1/4 po) pour les murs en béton et les blocs de béton de mâchefer
- mèche de 1,25 cm (1/2 po) pour les murs à montants métalliques
- mèche de 0,4 cm (5/32 po) pour les murs à montants métalliques ou à montants en bois
- niveau

Accessoires

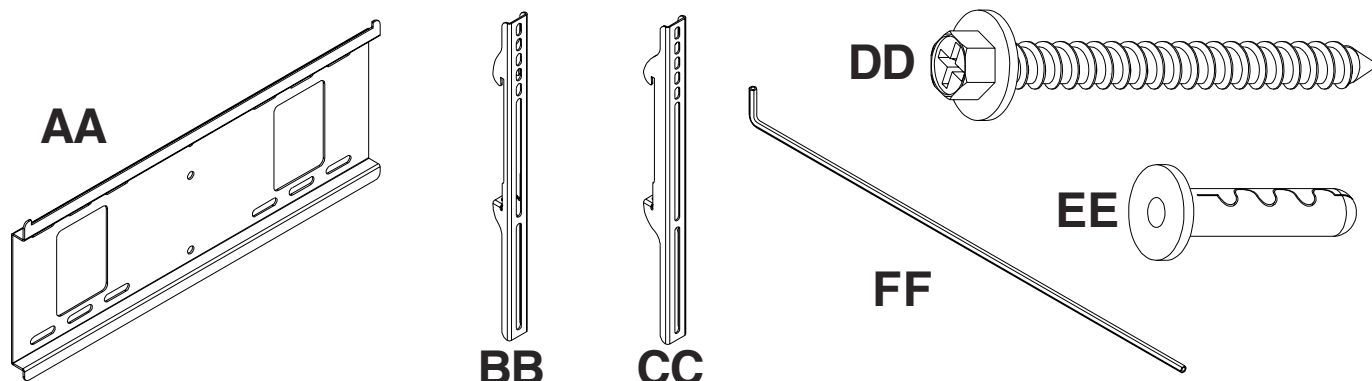
- Kit de 4 fixations pour montants métalliques (ACC 415) (Le montant métallique n'a pas été évalué par l'UL)
- Kit de 2 fixations pour montants métalliques (ACC 215) (Le montant métallique n'a pas été évalué par l'UL)

Table des matières

Liste des pièces	19
Installation sur un mur à doubles montants en bois	20
Installation sur un mur à triples montants en bois	21
Installation sur du béton plein ou un bloc de béton de mâchefer	22
Installation de supports adaptateurs	23
Installation de l'écran plat sur la plaque murale	24

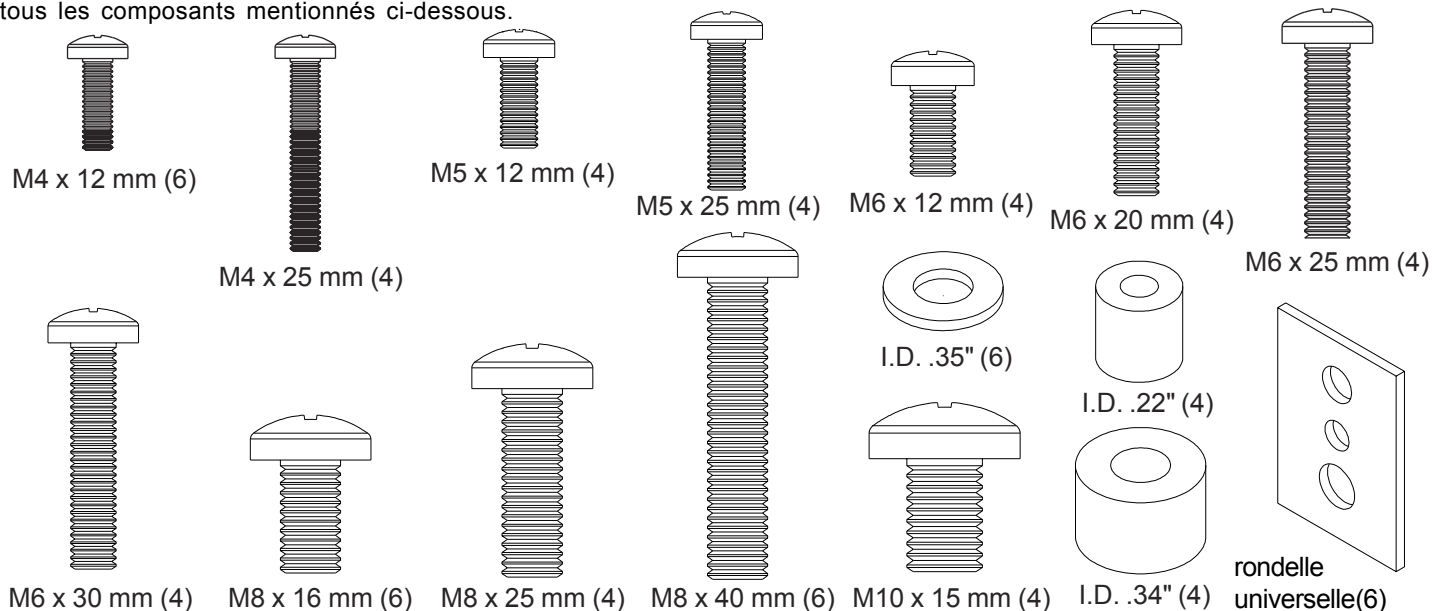
Pour le service à la clientèle, appelez le 800 729-0307 ou le (708) 865-8870.

D-FPF-220, D-FPF-220S, SF 640, SF 640-S, SF 640P, SF 640P-S, RTFPF-220, RTFPF-220S	D-FPF-320, D-FPF-320S, SF 660, SF 660-S, SF 660P, SF 660P-S, RTFPF-320, RTFPF-320S	SF 670, SF 670-S, SF 670P, SF 670P-S	SF 680, SF 680-S, SF 680P, SF 680P-S	Avant de commencer, assurez-vous que toutes les pièces indiquées sont incluses avec le produit. Il est possible que les pièces semblent légèrement différentes de celles illustrées ici.	
Liste des pièces					
				Modèle non sécurisé	
				Modèle antiviol	
Description	Qté	Noir Pièce n°	Argent Pièce n°	Noir Pièce n°	Argent Pièce n°
AA plaque murale (doubles montants) (doubles montants) (triples montants) (triples montants)	1	200-1797 201-1018 200-1901 200-1902	200-4797 201-4018 200-4901 200-4902	200-1797 201-1018 200-1901 200-1902	200-4797 201-4018 200-4901 200-4902
BB support adaptateur	2	200-0758 200-0754 200-0940 200-0944	200-0759 200-0755 200-0941 200-0945	200-0760 200-0756 200-0942 200-0946	200-0761 200-0757 200-0943 200-0947
CC support adaptateur profond	2	200-0750	200-0751	200-0752	200-0753
DD vis à bois n° 14 x 2,5	4	5S1-015-C03	5S1-015-C03	5S1-015-C03	5S1-015-C03
	6	5S1-015-C03	5S1-015-C03	5S1-015-C03	5S1-015-C03
EE ancrage Alligator®	4	590-0097	590-0097	590-0097	590-0097
	6	590-0097	590-0097	590-0097	590-0097
FF clé hexagonale 4 mm	1	560-1131	560-1131	560-1131	560-1131
	1	560-1146	560-1146	560-1146	560-1146



Fixations des supports adaptateurs

Les fixations « sorted-for-you^{MC} » ci-incluses ont été fabriquées spécialement pour votre produit et le paquet peut ne pas contenir tous les composants mentionnés ci-dessous.



Installation sur un mur à doubles montants en bois

⚠ AVERTISSEMENT

- L'installateur doit s'assurer que la surface de support pourra soutenir sans danger la charge combinée de l'équipement, de toute sa visserie et de tous ses composants.
- Serrez les vis à bois de manière que la plaque murale soit fermement fixée, mais sans excès. Un serrage excessif peut endommager les vis et en réduire considérablement le pouvoir de maintien.
- Ne serrez jamais à plus de 9 Nm (80 po-lb).
- Assurez-vous que les vis de montage sont ancrées au centre des montants. L'usage d'un localisateur de montants « bord à bord » est fortement conseillé.
- La visserie est fournie pour fixer la monture à travers une cloison sèche ou du plâtre d'épaisseur standard et dans des montants en bois. Il appartient aux installateurs de fournir la visserie nécessaire pour d'autres types de situations.

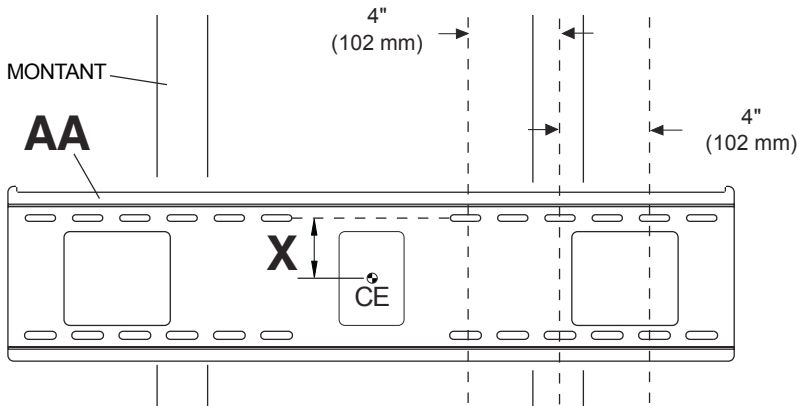
Remarque : Si le matériel de montage pèse plus de 91 kg (200 lb), il est fortement conseillé d'avoir recours au montage à triples montants.

Passez à l'étape 21.

- 1** La plaque murale (**AA**) peut être montée sur deux montants espacés de 40 cm (16 po). Utilisez un localisateur de montants pour repérer les bords des montants. L'usage d'un localisateur bord à bord est fortement conseillé. En fonction de leurs bords, tracez une ligne verticale le long du centre de chaque montant. Utilisez la plaque murale comme gabarit et placez-la sur le mur. Les fentes de montage supérieures doivent être situées au-dessus du centre de l'écran, comme indiqué par la dimension **X** sur la figure 1.1 et le tableau ci-dessous. Mettez la plaque de niveau et marquez le centre des quatre trous de montage. Assurez-vous que les trous de montage se trouvent sur les axes des montants. Percez quatre trous de 0,4 cm (5/32 po) de diamètre et de 6,5 cm (2 1/2 po) de profondeur. Assurez-vous que la plaque murale est de niveau, fixez-la à l'aide de quatre vis à bois n° 14 x 2,5 po (**DD**), comme illustré à la figure 1.2.

Remarque : La plaque murale peut être décentrée d'un maximum de 10,2 cm (4 po), comme illustré à la figure 1.1.

Passez à l'étape 2, page 23.



CE = centre de l'écran

fig. 1.1

Modèle n°	Dimension X
SF 640, SF 640-S, SF 640P, SF 640P-S, RTFPF-220, RTFPF-220S	2.5" (64 mm)
SF 660, SF 660-S, SF 660P, SF 660P-S, RTFPF-320, RTFPF-320S	4-5/8" (117 mm)

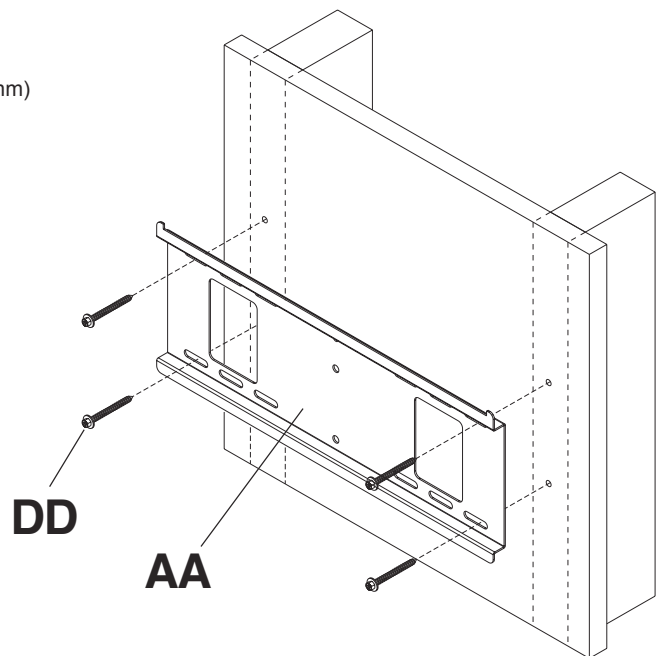


fig. 1.2

Installation sur un mur à triples montants en bois

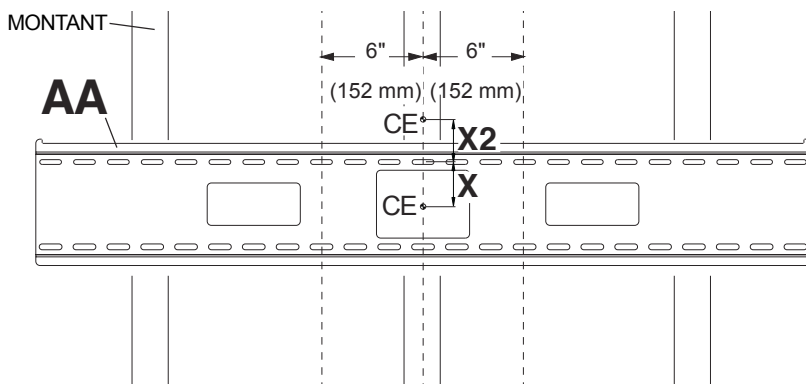
⚠ AVERTISSEMENT

- L'installateur doit s'assurer que la surface de support pourra soutenir sans danger la charge combinée de l'équipement, de toute sa visserie et de tous ses composants.
- Serrez les vis à bois de manière que la plaque murale soit fermement fixée, mais sans excès. Un serrage excessif peut endommager les vis et en réduire considérablement le pouvoir de maintien.
- Ne serrez jamais à plus de 9 Nm (80 po-lb).
- Assurez-vous que les vis de montage sont ancrées au centre des montants. L'usage d'un localisateur de montants « bord à bord » est fortement conseillé.
- La visserie est fournie pour fixer la monture à travers une cloison sèche ou du plâtre d'épaisseur standard et dans des montants en bois. Il appartient aux installateurs de fournir la visserie nécessaire pour d'autres types de situations.

1 La plaque murale (**AA**) peut être montée sur trois montants espacés de 40 cm (16 po). Utilisez un localisateur de montants pour repérer les bords des montants. L'usage d'un localisateur bord à bord est fortement conseillé. En fonction de leurs bords, tracez une ligne verticale le long du centre de chaque montant. Utilisez la plaque murale comme gabarit et placez-la sur le mur. Les fentes de montage supérieures doivent être situées au-dessus du centre de l'écran, comme indiqué par la dimension **X** sur la figure 1.3 et le tableau ci-dessous. Mettez la plaque de niveau et marquez le centre des six trous de montage. Assurez-vous que les trous de montage se trouvent sur les axes des montants. Percez six trous de 0,40 cm (5/32 po) de diamètre et de 6,5 cm (2 1/2 po) de profondeur. Assurez-vous que la plaque murale est de niveau, fixez-la à l'aide de six vis à bois n° 14 x 2,5 po (**DD**), comme illustré à la figure 1.4.

Remarque : Si le matériel de montage pèse plus de 91 kg (200 lb), il est fortement conseillé d'avoir recours au montage à triples montants. En cas de montage sur deux montants espacés de 40 cm (16 po), laissez un montant ouvert au centre. La plaque murale peut être décentrée d'un maximum de 15,2 cm (6 po), comme illustré à la figure 1.3.

Passez à l'étape 2, page 23.



CE = centre de l'écran

fig. 1.3

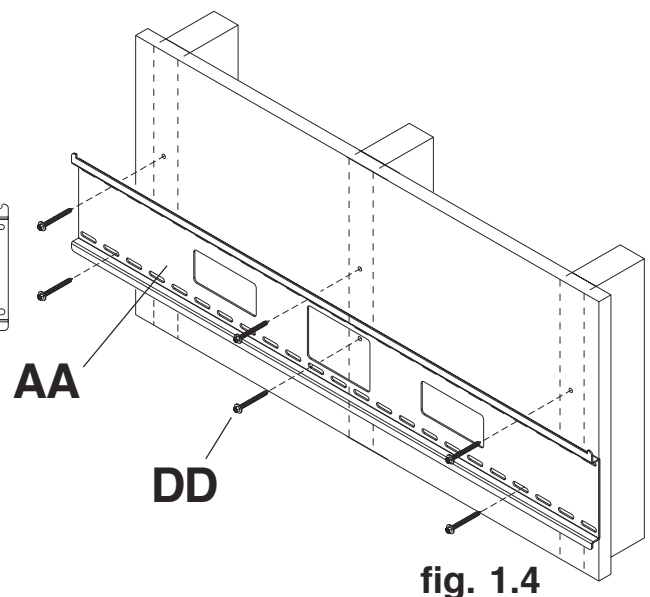


fig. 1.4

Modèle n°	Dimension X	Dimension X2
SF 670, SF 670-S, SF 670P, SF 670P-S	s/o	3/4" (19 mm)
SF 680, SF 680-S, SF 680P, SF 680P-S	3-3/4" (95 mm)	s/o

Installation sur du béton plein ou un bloc de béton de mâchefer

⚠ AVERTISSEMENT

- Si vous installez des montures murales Peerless sur un bloc de béton de mâchefer, vérifiez que vous disposez d'une épaisseur de béton d'au moins 3,4 cm (1 3/8 po) dans le trou destiné aux ancrages de béton. Ne percez pas dans les joints de mortier ! Veillez à effectuer le montage dans une partie pleine du bloc, généralement à au moins 2,5 cm (1 po) du côté du bloc. Le bloc de béton de mâchefer doit être conforme aux spécifications de l'ASTM C-90. Pour percer le trou, il est conseillé d'utiliser une perceuse électrique standard sur un réglage bas au lieu d'un marteau perforateur, afin d'éviter de briser la partie arrière du trou lorsque vous pénétrez un vide ou une cavité.
- Le béton doit avoir une densité minimum de 2 000 psi. Un béton de densité moindre risquerait de ne pas retenir un ancrage de béton.
- Assurez-vous que la surface de support pourra soutenir sans danger la charge combinée de l'équipement, de toute sa visserie et de tous ses composants.

1 Assurez-vous que la plaque murale (AA) est de niveau, utilisez-la comme gabarit pour marquer les quatre trous de montage. Les fentes de montage supérieures doivent se trouver au-dessus du centre de l'écran, comme illustré par la dimension X sur la figure 1.1 et les tableaux des pages 4 et 5. Percez quatre trous de 0,6 cm (1/4 po) de diamètre à une profondeur minimum de 6,4 cm (2,5 po). Insérez les ancrages (EE) dans les trous au ras du mur, comme illustré (à droite). Placez la plaque murale sur les ancrages et fixez avec des vis n° 14 x 2,5 po (DD). Mettez-la de niveau, puis serrez toutes les fixations.

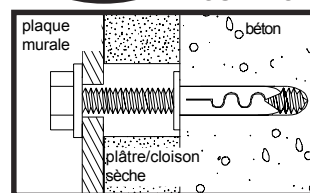
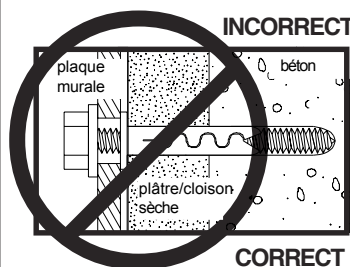
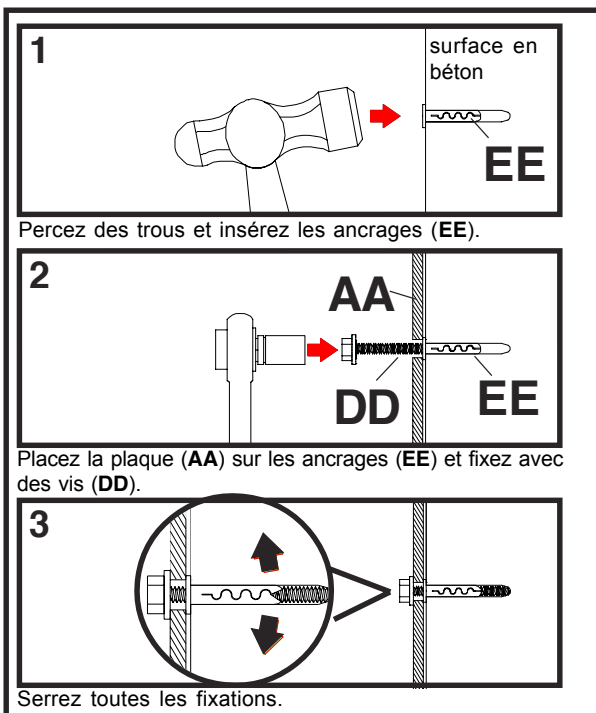
Remarque : Pour un matériel pesant plus de 91 kg (200 lb), le montage de la plaque murale exige six trous et six jeux de fixations.

⚠ AVERTISSEMENT

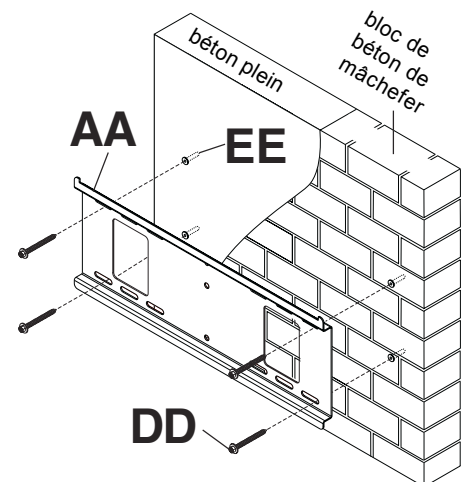
- Serrez les vis de manière que la plaque murale soit fermement fixée, mais sans excès. Un serrage excessif peut endommager les vis et en réduire considérablement le pouvoir de maintien.
- Ne serrez jamais à plus de 9 Nm (80 po-lb).

⚠ AVERTISSEMENT

- Fixez toujours des ancrages de béton directement sur du béton porteur.
- Ne fixez jamais d'ancrages sur du béton recouvert de plâtre, une cloison sèche ou autre matériau de finition. Si vous ne pouvez pas éviter d'effectuer le montage sur une surface de finition, celle-ci doit être chambrée, comme indiqué ci-dessous. Assurez-vous que les ancrages de béton ne se séparent pas du béton lorsque vous serrez les vis. Si l'épaisseur du plâtre / de la cloison sèche dépasse 1,5 cm (5/8 po), des fixations adaptées devront être fournies par l'installateur.



VUE EN COUPE



Installation des supports adaptateurs

Le **Tableau de compatibilité d'écrans** permet de déterminer quelles fixations utiliser.

- 2** Pour éviter de rayer l'écran, placez un chiffon sur une surface plate et horizontale capable de soutenir le poids de l'écran. Placez l'écran sens dessus dessous. Si l'écran est muni de boutons à l'arrière, enlevez-les pour pouvoir fixer les supports adaptateurs. Placez les supports adaptateurs (**BB** ou **CC**) à l'arrière de l'écran, alignez-les sur les trous et centrez-les sur l'arrière de l'écran, comme illustré à la figure 2.1. Fixez les supports adaptateurs à l'arrière de l'écran à l'aide d'un ensemble approprié de vis, de rondelles universelles et de pièces d'écartement, comme illustré à la figure 2.3.

Remarque : Les trous supérieurs et inférieurs doivent toujours être utilisés.

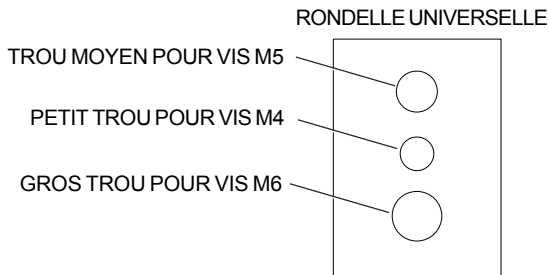
Vérifiez que tous les trous sont correctement alignés, puis serrez les vis à l'aide d'un tournevis cruciforme.

⚠ AVERTISSEMENT

- Serrez les vis de manière que les supports adaptateurs soient solidement fixés. N'employez pas une force excessive pour serrer. Un serrage excessif peut causer des contraintes risquant d'endommager les vis, de réduire considérablement leur pouvoir de maintien et de décoller les têtes des vis. Serrez les vis à un couple maximum de 4,5 Nm (40 po-lb).
- Si les vis ne sont pas enfoncées de trois tours complets dans les inserts ou si elles sont serrées au maximum sans parvenir à maintenir solidement le support, l'écran peut être abîmé ou le produit détérioré.

Remarques:

- Le nombre de fixations utilisées varie suivant le type d'écran.
- Il est possible que les rondelles universelles et les pièces d'écartement ne soient pas utilisées, suivant le type d'écran.
- Utilisez le trou de la rondelle universelle correspondant à la dimension de la vis que vous utilisez, comme illustré à la figure 2.2.



Remarque : Sur les modèles SF 680, SF 680P, SF 680-S, et SF 680P-S, les fentes sont plus larges et nécessitent l'usage de rondelles M8 d'un diamètre intérieur de 0,89 cm (0,35 po).

fig. 2.2

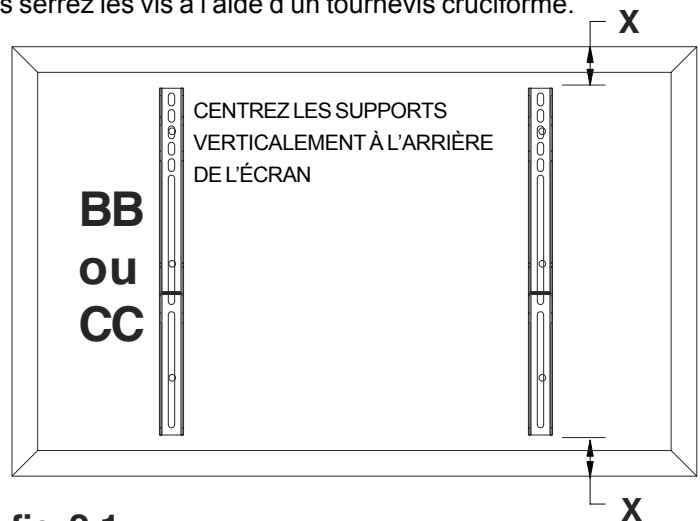


fig 2.1

Remarque : Les dimensions « X » doivent être égales.

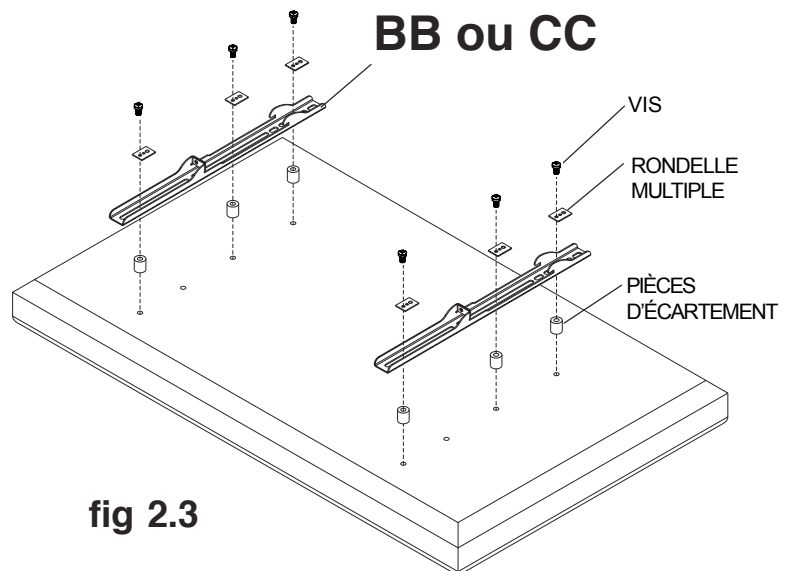


fig 2.3

Montage et démontage de l'écran plat

- 3** Accrochez les supports adaptateurs (**BB** ou **CC**) sur la plaque murale (**AA**). Ensuite, faites pivoter lentement l'écran vers l'intérieur, comme illustré. À l'aide de la clé hexagonale (**FF**), tournez les vis de sécurité dans le sens horaire au moins six fois pour empêcher l'écran de se détacher, comme illustré sur le plan détaillé 1 de la figure 3.1.

Au besoin, l'écran peut être ajusté horizontalement, comme illustré à la figure 3.2.

Remarque : Pour bloquer l'écran, serrez les vis de sécurité sur la plaque murale, comme illustré sur le plan détaillé 1.

Pour enlever l'écran de la monture, desserrez les vis de sécurité, faites pivoter l'écran pour l'écarter de la monture et soulevez-le de la monture.

⚠ AVERTISSEMENT

- Pour lever et positionner l'équipement en toute sécurité, faites-vous toujours aider par une autre personne ou utilisez un matériel de levage mécanique.

ATTENTION

- N'employez pas une force excessive pour serrer les vis. Un serrage excessif peut endommager la monture. Serrez les vis à un couple maximum de 4,5 Nm (40 po-lb).

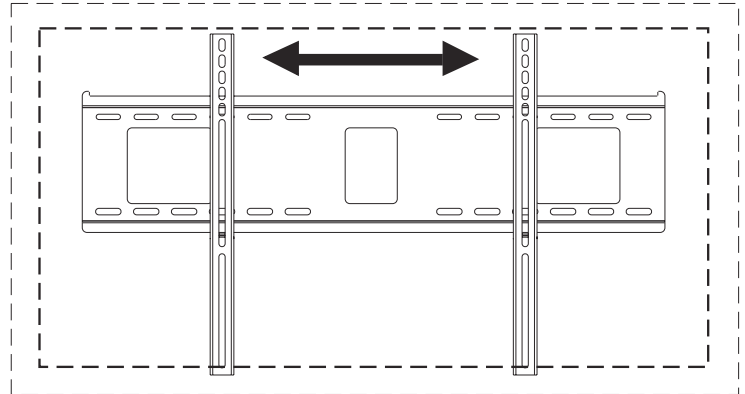


fig 3.2

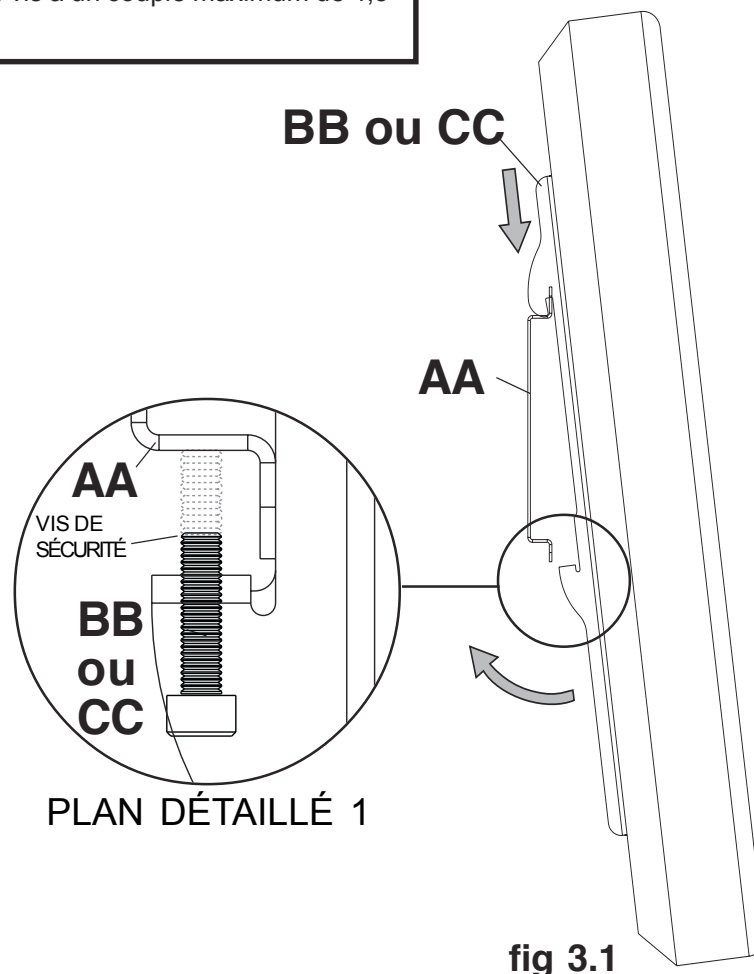
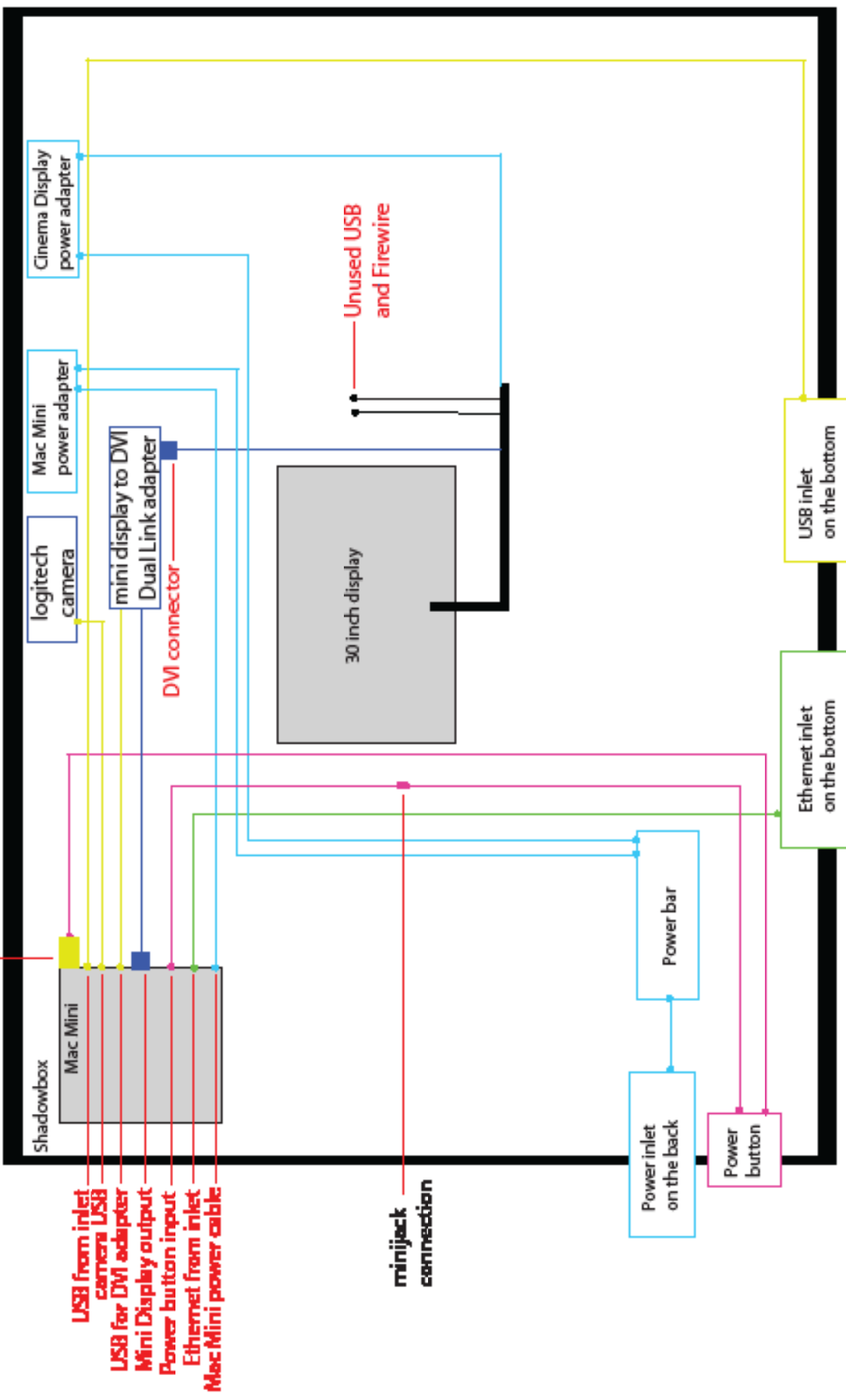


fig 3.1

Appendix 2 – Shadowbox cabling diagram

- Description
- Video signal
- Power
- Ethernet
- USB
- Button circuit

USB power button monitor



- USB from inlet camera USB
- USB for DVI adapter
- Mini Display output
- Power button input
- Ethernet from inlet
- Mac Mini power cable

minijack connection

Power inlet on the back

Power bar

Power button

Ethernet inlet on the bottom

USB inlet on the bottom

30 inch display

Cinema Display power adapter

Mac Mini power adapter

logitech camera

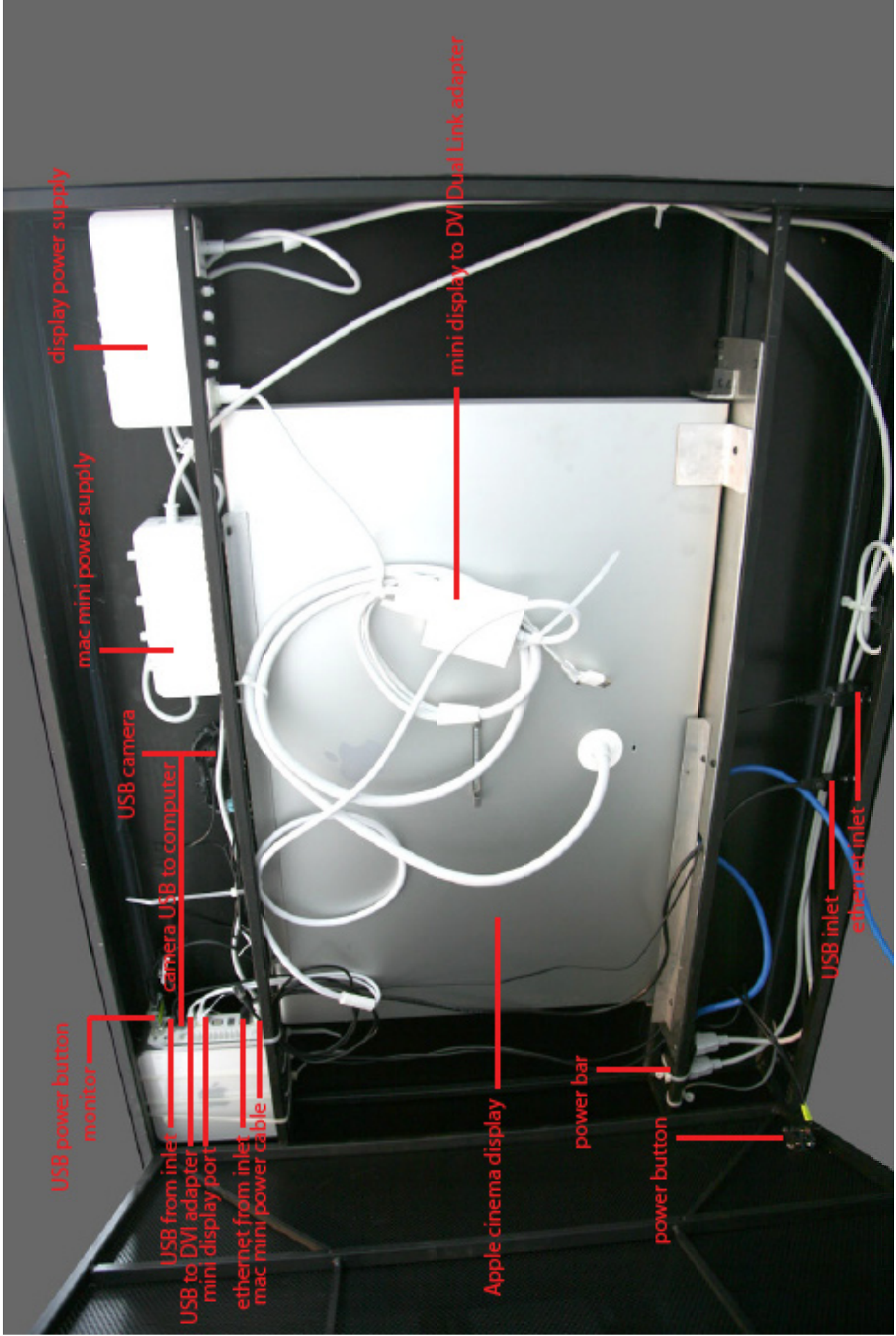
mini display to DVI Dual Link adapter

DVI connector

Unused USB and Firewire

Mac Mini

Shadowbox



USB power button

monitor

USB from inlet

USB to DVI adapter

mini display port

ethernet from inlet

mac mini power cable

Apple cinema display

power bar

power button

display power supply

mac mini power supply

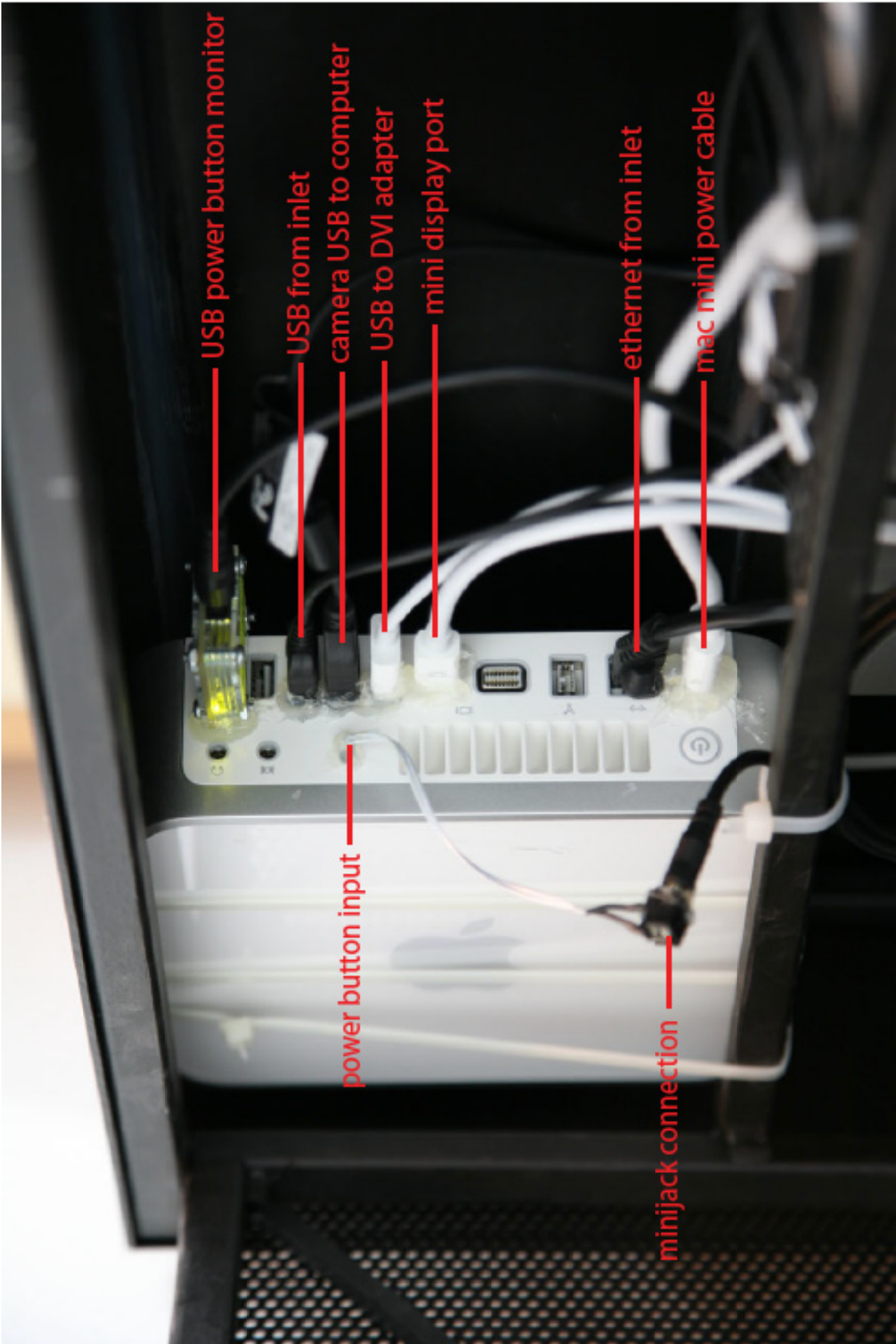
USB camera

camera USB to computer

mini display to DVI Dual Link adapter

USB inlet

ethernet inlet



USB power button monitor

USB from inlet

camera USB to computer

USB to DVI adapter

mini display port

ethernet from inlet

mac mini power cable

power button input

minijack connection

Appendix 2 – Shadowbox cabling diagram

Mac Mini : This is the computer that runs the software. It has a processor of at least 2.0 Ghz, at least 2 Gigs of RAM, and a video card with at least 256 Megs of VRAM. It receives, processes and sends information via many ports enumerated further.

Mac Mini power supply : This power supply converts the electricity for the computer. It works with 110V or 220V power.

Apple Cinema Display : This is a 30-inch flat panel Apple display running at its native resolution of 2560x1600. It is powered via the power bar of the Shadowbox and receives a video signal through its DVI port from the mini-display to Dual Link DVI adapter.

Display power supply : This power supply converts the electricity for the display. It works with 110V or 220V power.

Mini-display to Dual Link DVI adapter : This adapter allows the video signal of the Mac Mini's mini display port to be output to a Dual Link DVI signal at a resolution of 2560x1600. The adapter connects to the Mac Mini's mini display port and to one of its USB ports, via which it receives power.

Power Bar : This bar simply splits the electricity coming into the Shadowbox so it can be redirected to the display and computer.

Power Button : This button is external to the Shadowbox and connects internally to the Mac Mini so the user can turn it on an off with ease.

USB inlet : This inlet is an extension of one of the Mac Mini's USB ports and allows for a USB mouse and/or keyboard to be plugged onto the Shadowbox directly for easy manipulation of the software.

Ethernet inlet : This inlet is an extension of the Mac Mini's Ethernet port and potentially allows for easy remote access to the computer.

USB camera : This camera is a Logitech QuickCam Ultra Vision Pro USB. It should be pointed properly and glued in place.

Computer Connections :

Mac Mini power cable : This is the electrical input to the computer from its power adapter.

Ethernet from inlet : This is the Ethernet port extending to the outer shell of the Shadowbox.

Power button input : This small cable goes inside the computer in place of the normal power button, and connects to the outer power button of the Shadowbox. It allows for the Mac Mini to be turned on via the power button of the Shadowbox.

Mini display port : This is where the Mini outputs a video signal that is shown on the display.

USB to DVI : This USB port powers the Mini Display to DVI adapter.

Camera USB : This is where the USB camera connects and feeds the computer with the camera view.

USB from inlet : This is the USB port extending to the outer shell of the Shadowbox.

USB power button monitor : This little device allows the operating system of the computer to detect whether the power button of the Shadowbox is being pressed. It allows for the button to shut down the computer, just as the "Power button input".

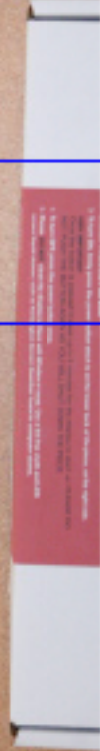
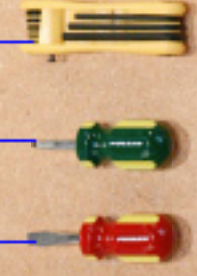
Shadow Box Manual

Flathead Screwdriver (use to open Shadow Box)

Robertson Screwdriver (use for MacBook mount)

Allen key kit (use to remove box's top)

Mac OS X Software for Art Piece



Screws (use to hang Peerless wall mount on the wall)

Long Allen Key (use to secure Shadow Box to Peerless wall mount)

small USB Keyboard

USB mouse

USB Hub (use if mouse and keyboard are needed at the same time)

Power Cable (connects to back of Shadow Box)

Appendix III

Installation Shots

