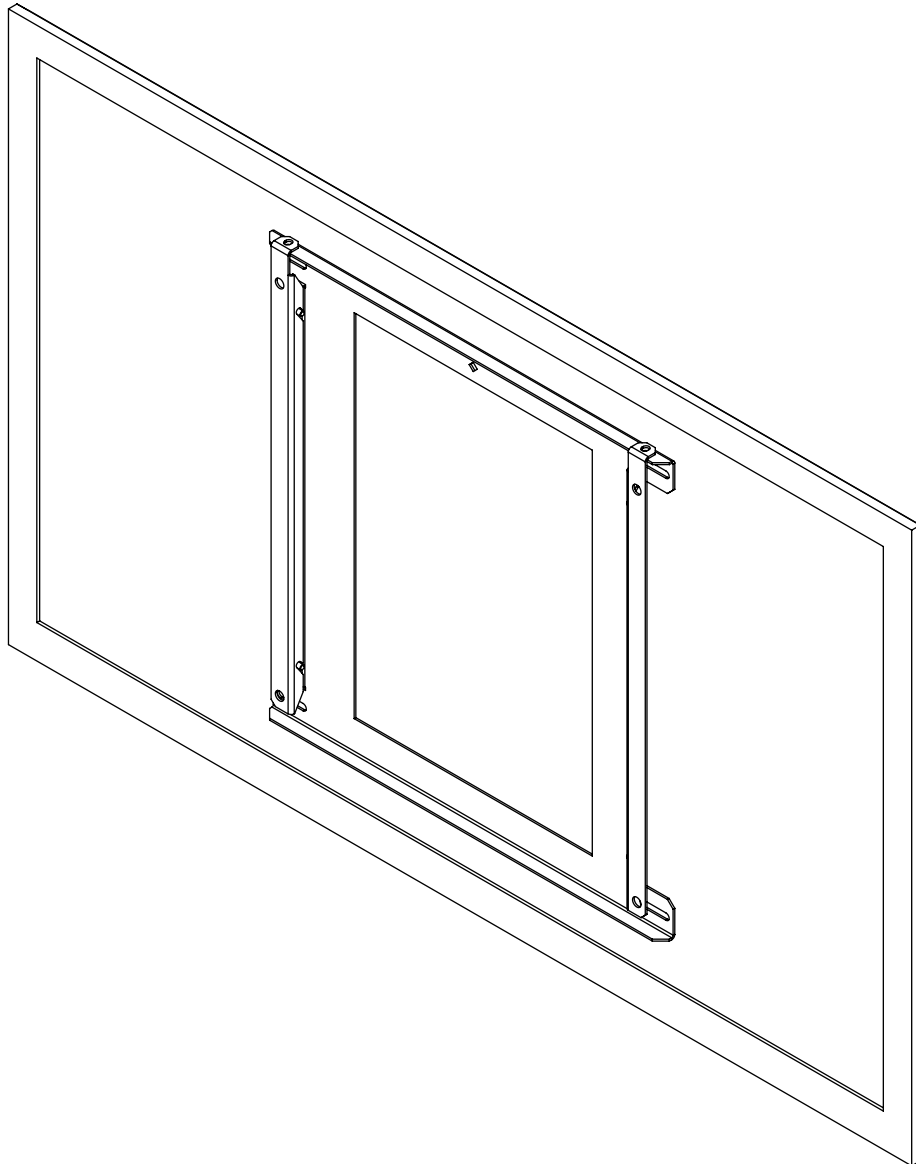




Installation and Assembly: Ultra Thin Flat Panel Wall Mount for VESA 400 x 400 Mounting Hole Patterns

Model: HF642-003

Max Load Capacity: 100 lb (37 kg)



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, for US customers please call Peerless customer care at 1-800-865-2112, for all international customers, please contact your local distributor.
- 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 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.
- This product is intended for indoor use only. Use of this product outdoors could lead to product failure and personal injury.
- This product was designed to be installed on the following wall construction only;

WALL CONSTRUCTION

HARDWARE REQUIRED

- | | |
|--------------------|--------------------------------|
| • Wood Stud | Included |
| • Wood Beam | Included |
| • Solid Concrete | Included |
| • Cinder Block | Included |
| • Metal Stud | Included |
| • Brick | Contact Qualified Professional |
| • Other or unsure? | Contact Qualified Professional |

Tools Needed for Assembly

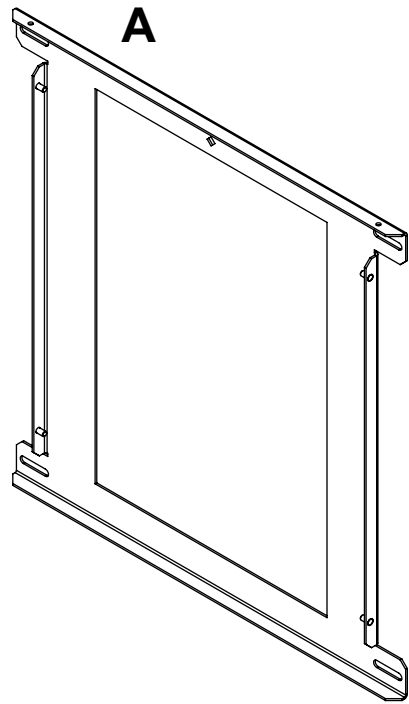
- stud finder ("edge to edge" stud finder is recommended)
- phillips screwdriver
- drill
- 5/16" (8mm) bit for concrete and cinder block wall
- 5/32" (4mm) bit for wood stud wall
- level

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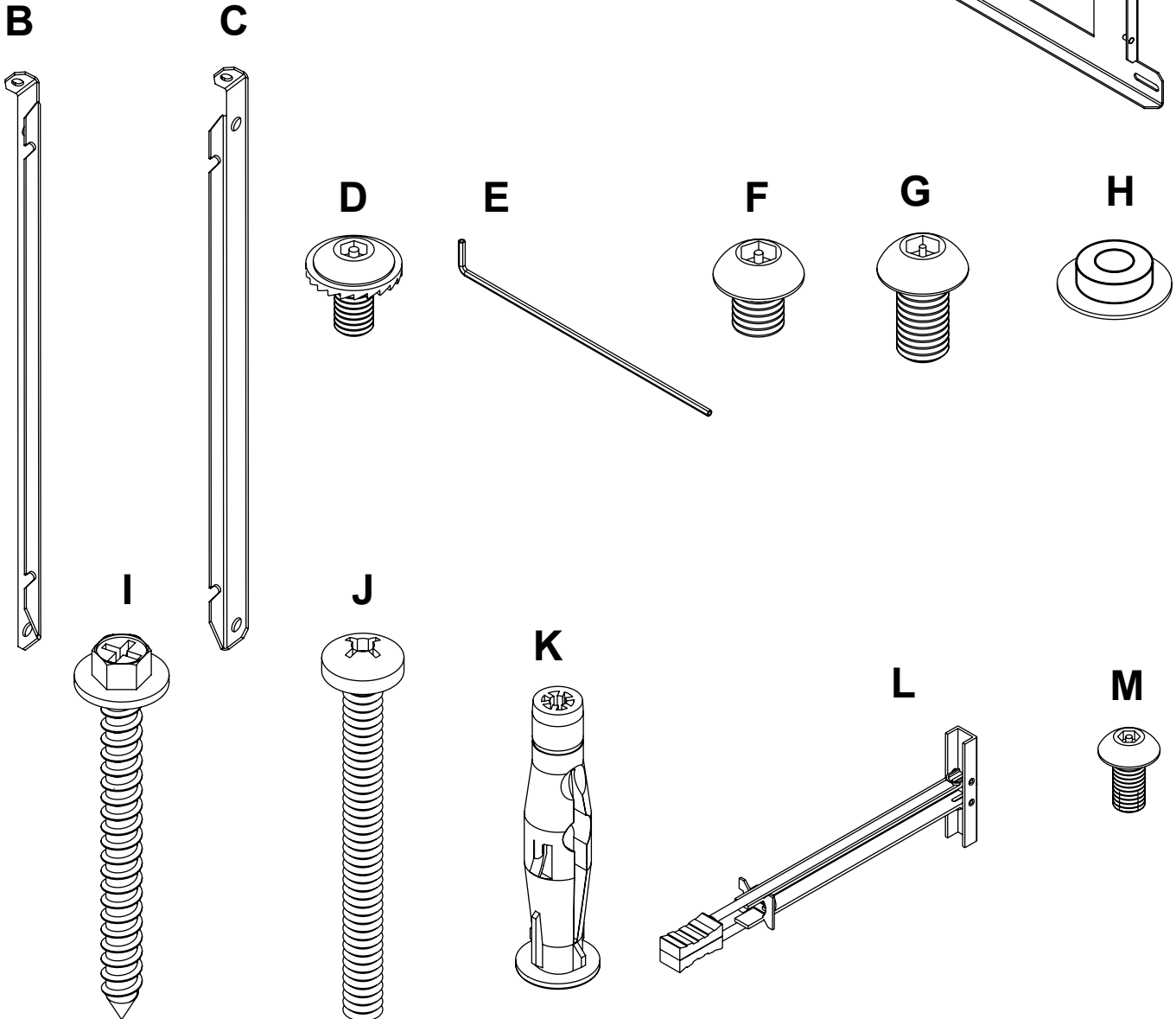
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Before you begin, make sure all parts shown are included with your product.

Parts List		
Description	Qty.	Part #
A wall plate	1	201-1983
B right hook bracket	1	201-1986
C left hook bracket	1	201-1985
D M6 x 12 mm socket pin serrated washer head screw	4	510-1050
E 4 mm allen wrench	1	560-1129
F M8 x 10 mm socket pin screw	4	520-1706
G M8 x 15 mm socket pin screw	4	520-1068
H nylon shoulder washer	4	590-2233
I #14 x 2.5" hex head wood screw	4	5S1-015-C03
J 1/4-20 x 2.5" phillips screw	4	520-9521
K concrete anchor	4	590-0320
L toggler	4	560-9708
M M5 x 10 mm socket pin Type-F screw	2	520-1164



Parts may appear slightly different than illustrated.



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.

- 1 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. 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" (4mm) dia. holes 2.5" (64mm) 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:** DIAMOND INDICATES
TOP OF WALL PLATE

Skip to step 2.

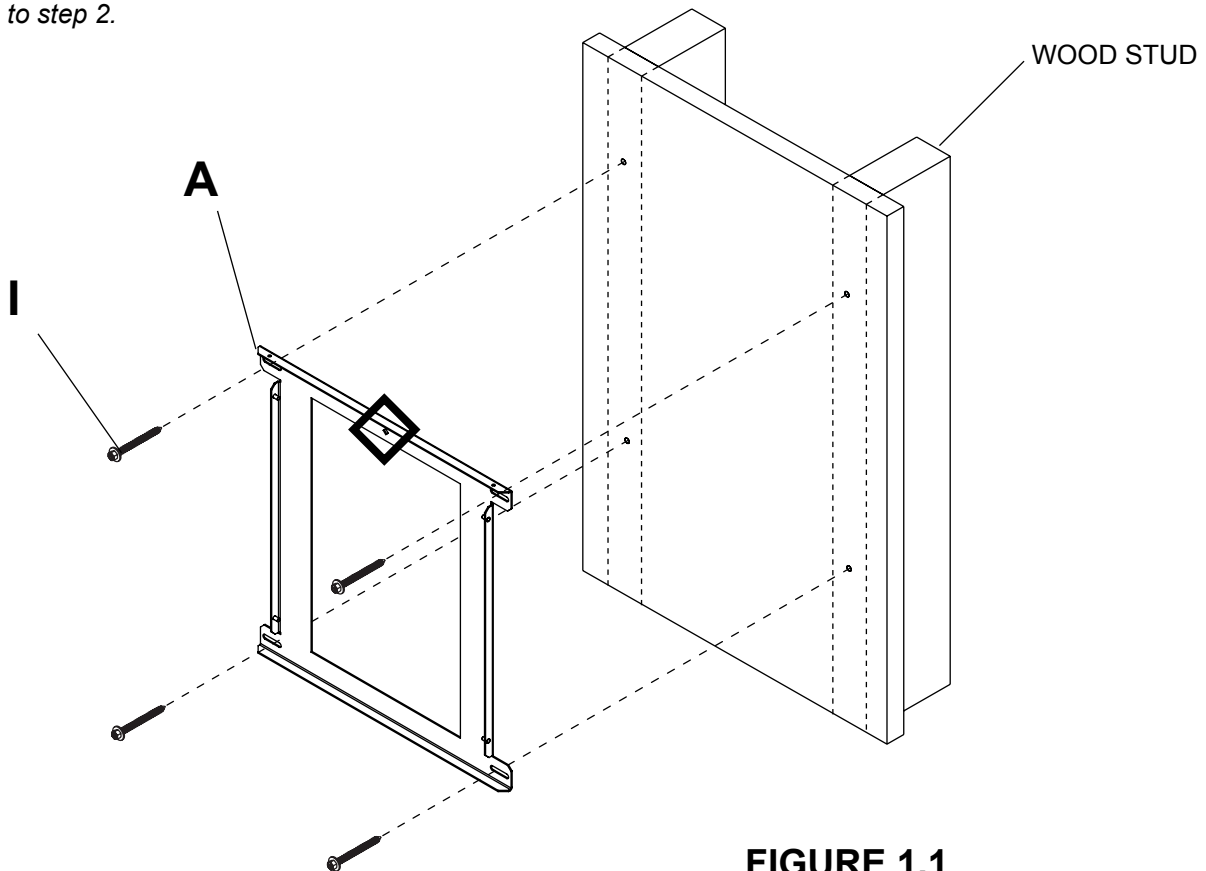


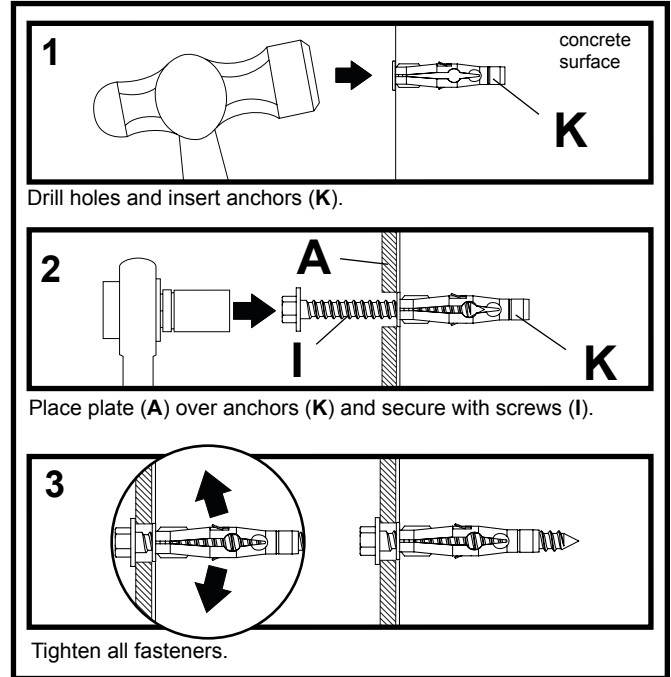
FIGURE 1.1

Installation to Solid Concrete or Cinder Block

⚠ WARNING

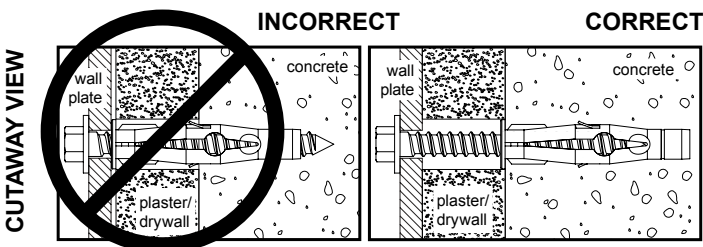
- When installing Peerless wall mounts on cinder block, verify that you have a minimum of 1-3/8" (35mm) of actual concrete thickness in the hole to be used for the concrete anchors. Do not drill into mortar joints! Be sure to mount in a solid part of the block, generally 1" (25mm) minimum from the side 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.
- Make sure that the wall will safely support four times the combined load of the equipment and all attached hardware and components.

- 1** Make sure that wall plate (A) is level, use it as a template to mark four mounting holes. Drill four 5/16" (8mm) dia. holes to a minimum depth of 2.5" (64mm). Insert anchors (K) in holes flush with wall as shown (right). Place wall plate over anchors and secure with #14 x 2.5" screws (I). Level, then tighten all fasteners.

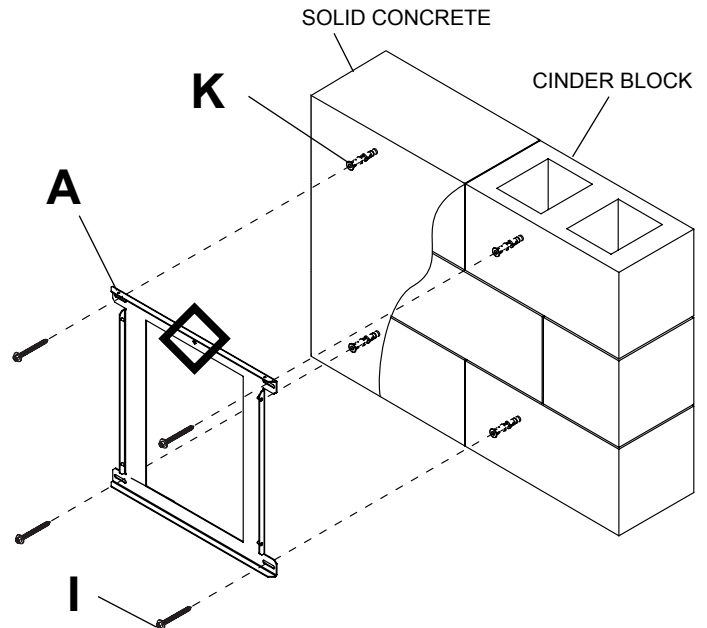


⚠ WARNING

- 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.).
- Always attach concrete expansion anchors directly to load-bearing concrete.
- Never attach concrete expansion 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" (16mm), custom fasteners must be supplied by installer.

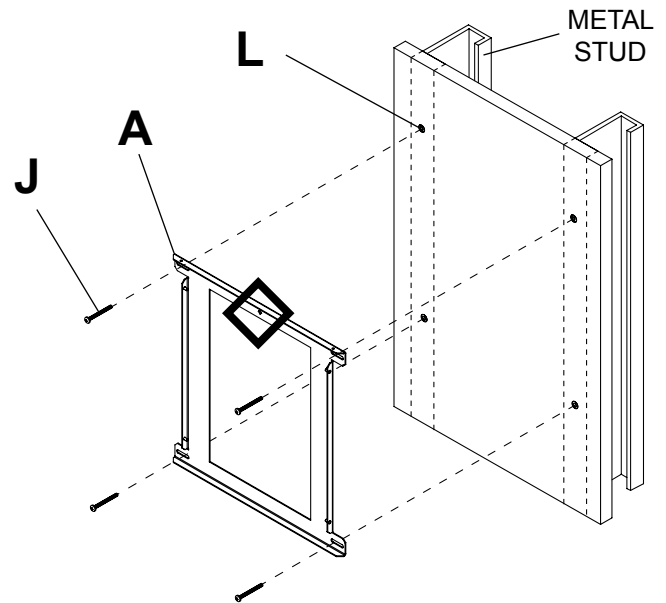


◆ NOTE: DIAMOND INDICATES TOP OF WALL PLATE



Installation to Metal Stud Wall

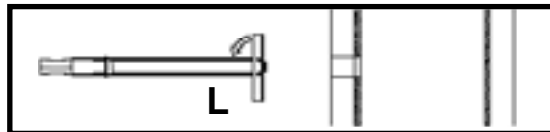
- 1** FOR METAL STUD WALLS ONLY: Drill four 1/2" (13mm) dia. holes through drywall and studs at locations corresponding to wall plate. Insert togglers (L) as shown below.



⚠ WARNING

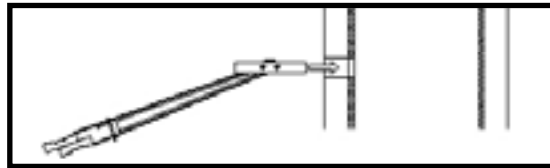
- Product must be mounted through drywall that has a minimum thickness of 1/2" and into metal studs, 26 gauge or heavier.
- Make sure that togglers are anchored into the center of the studs as shown in figure 1. The use of an "edge to edge" stud finder is highly recommended.

- 1-1** Pivot end of toggler (L).

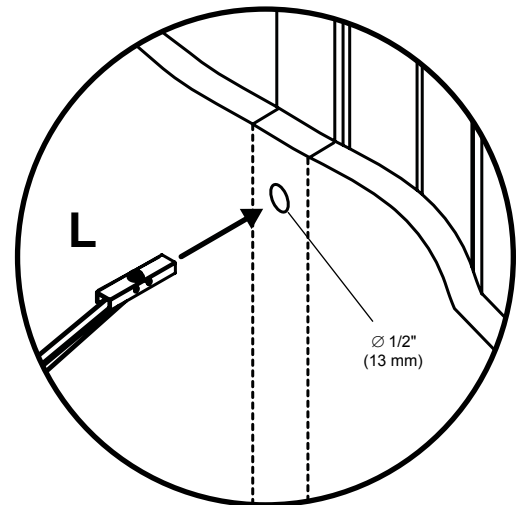
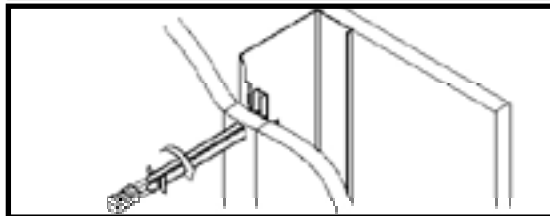


NOTE: DIAMOND INDICATES TOP OF WALL PLATE

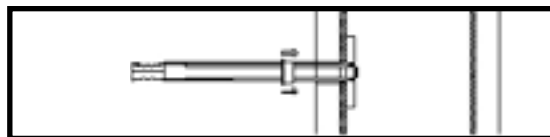
- 1-2** Push into hole.



- 1-3** Rotate toggler (L) clockwise to wedge it against inside walls of metal stud.



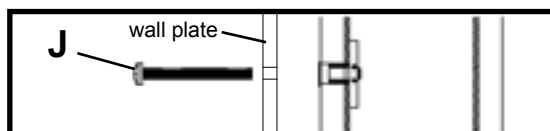
- 1-4** Slide plastic cap forward while pulling back firmly on ring.



- 1-5** Break off excess.



- 3-6** Align wall plate with hole in wall and fasten using 1/4-20 x 2.5" screw (J). Skip to Step 5



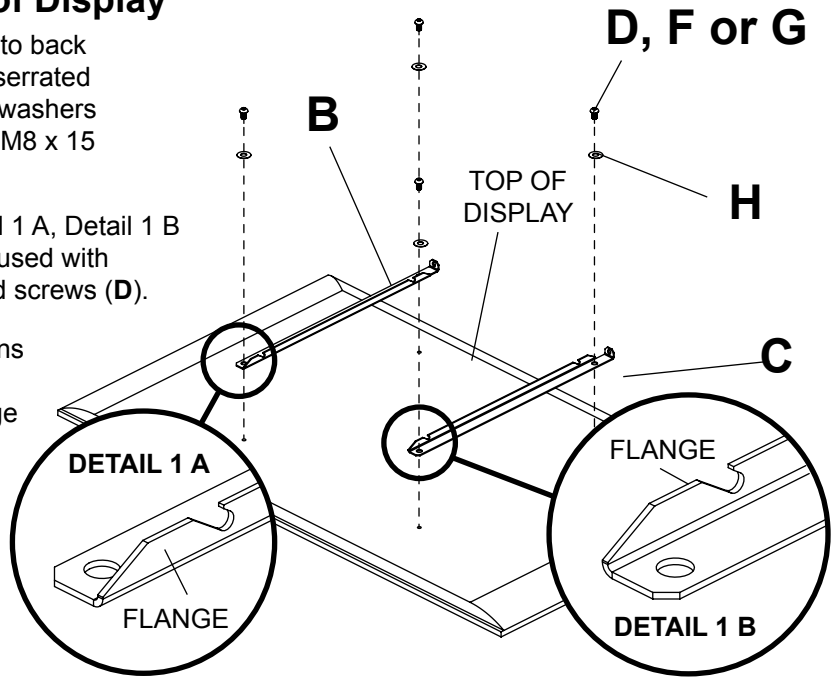
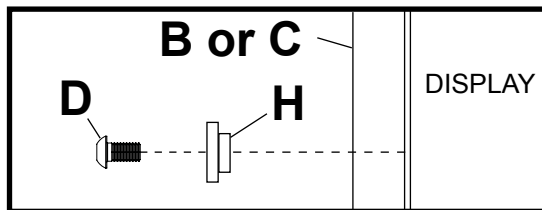
Attaching Hook Brackets to Back of Display

- 2** Attach right and left hook brackets (**B** and **C**) to back of display using four M6 x 12 mm socket pin serrated washer head screws (**D**) with nylon shoulder washers (**H**) or, M8 x 10 mm socket pin screws (**F**), or M8 x 15 mm socket pin screws (**G**).

NOTE: Bracket orientation as shown in Detail 1 A, Detail 1 B

NOTE: Nylon shoulder washers (**H**) are only used with M6 x 12 mm socket pin serrated washer head screws (**D**).

NOTE: If screws don't get three complete turns in the display inserts or if screws bottom out and bracket is still not tightly secured, damage may occur to display or product may fail.



Mounting and Removing Display

- 3** Hook right and left hook brackets (**B** and **C**) onto pems on wall plate (**A**) as shown in Figure 3.1 Detail 2.

Secure right and left hook brackets (**B** and **C**) to wall plate (**A**) with two M5 x 10 mm socket pin Type-F screws (**M**) using 4 mm allen wrench (**E**) as shown in Detail 3

⚠ WARNING

- Always use an assistant or mechanical lifting equipment to safely lift and position the flat panel display.
- 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.
- Be careful not to pinch fingers when pushing display from the bottom.

B and C

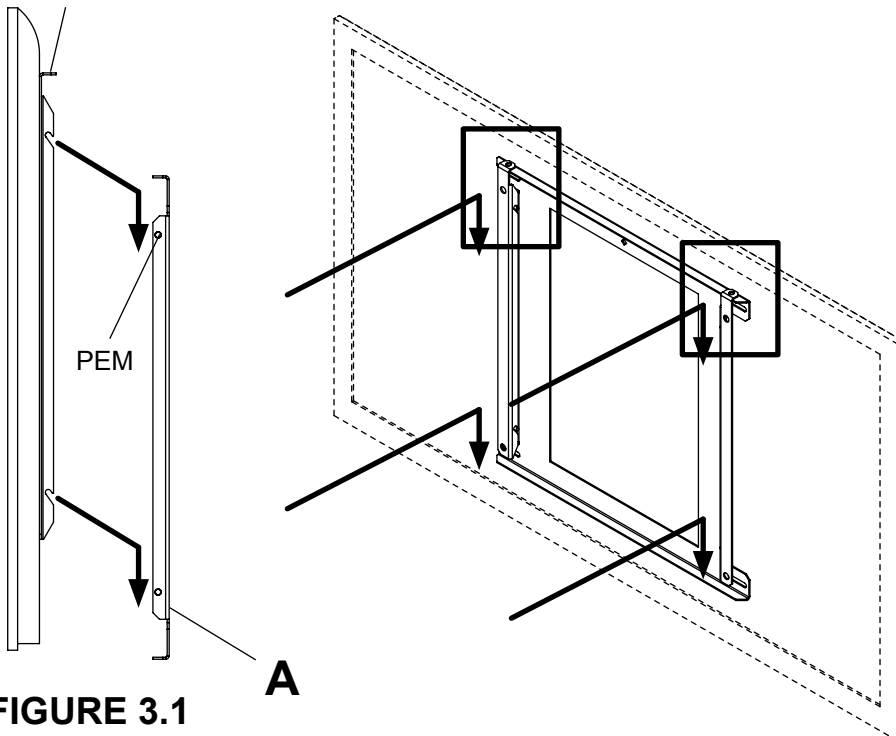


FIGURE 3.1

