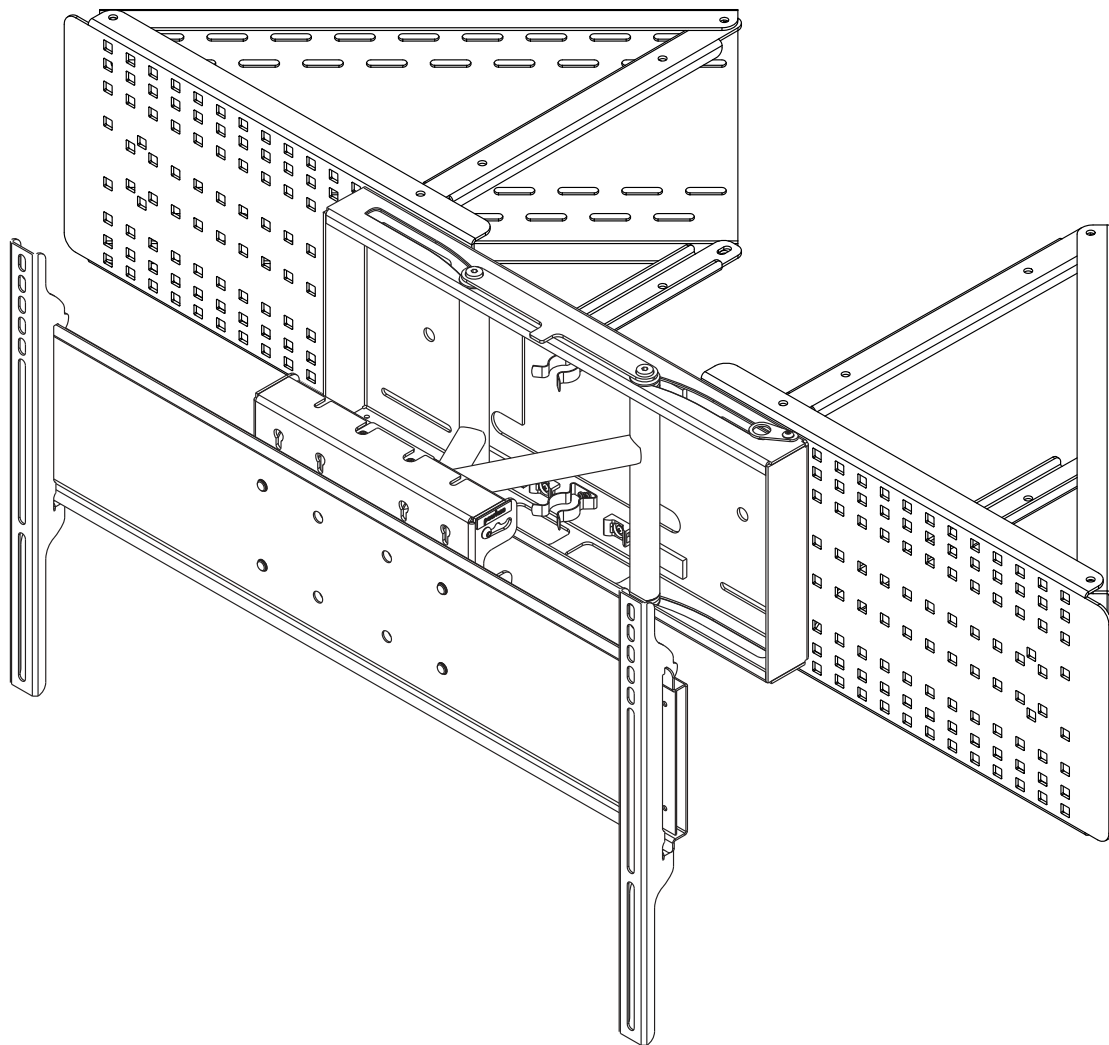# peerless®

Installation and Assembly:
Flat Panel Corner Mount for 32" – 58"
LCD and Plasma Screens

Models: CM850, CM850-S   **Maximum Load Capacity:** 150 lb (68.1 kg)

Features
- Allows screen to fit in corner where space is limited
- Includes SmartMount® SP850-UNL Pull-Out Swivel Mount
- Expandable arms accommodate multiple screen sizes without having to adjust wall mount placement
- Extend up to 10.75"
- Pull-out swivel with up to 90° rotation
- 0°, 5° or 10° lockable tilt
- Accessory shelf available for A/V components (sold separately)
- Mounts to wood studs, concrete, cinder block

Visit the Peerless Web Site at www.peerlessmounts.com   For customer care call 1-800-865-2112 or 708-865-8870.

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 1-800-865-2112.
• 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.
• 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 and intended to be mounted to the following supporting surfaces checked below with the hardware included in this product as specified in the installation sheet. To mount this product to an alternative supporting surface, contact Peerless customer care at 1-800-865-2112.
• This product was designed to be installed on the following wall construction only;

WALL CONSTRUCTION		ADDITIONAL HARDWARE REQUIRED
☒	Wood Stud	None
☒	Wood Beam	None
☒	Solid Concrete	None
☒	Cinder Block	None
☐	Metal Stud	Do not attach except with Peerless accessory kit for metal studs;
		Contact Customer Service for Peerless accessory kit for metal studs.
☐	Brick	Contact Customer Service
☐	Other or unsure?	Contact Customer Service

Tools Needed for Assembly
- stud finder (edge-to-edge stud finder recommended)
- phillips screwdriver
- drill
- 6 mm allen wrench
- 5/32" drill bit for wood stud wall
- 1/4" drill bit for concrete wall
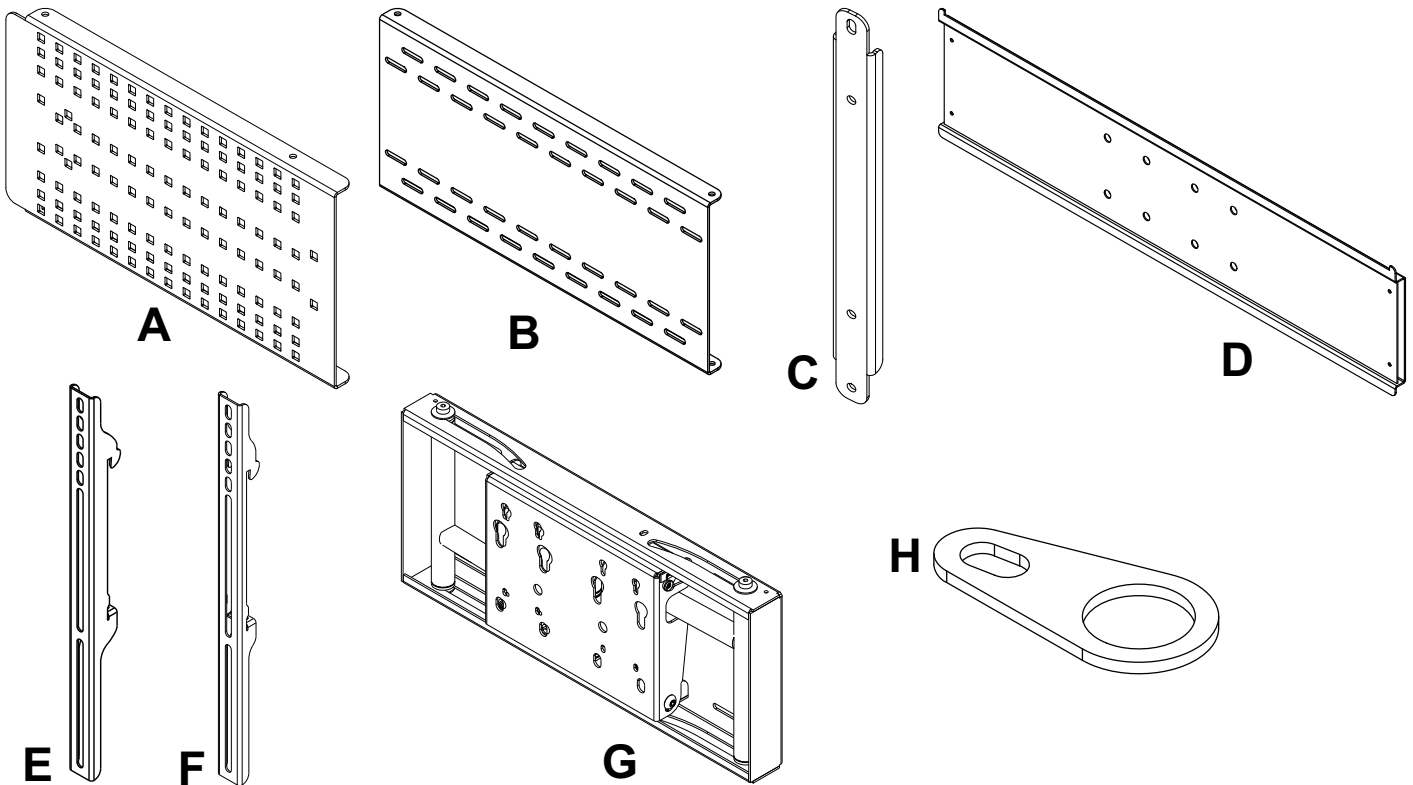- level

Accessories
- ACC324(-S) - Shelving Unit for Corner Mount
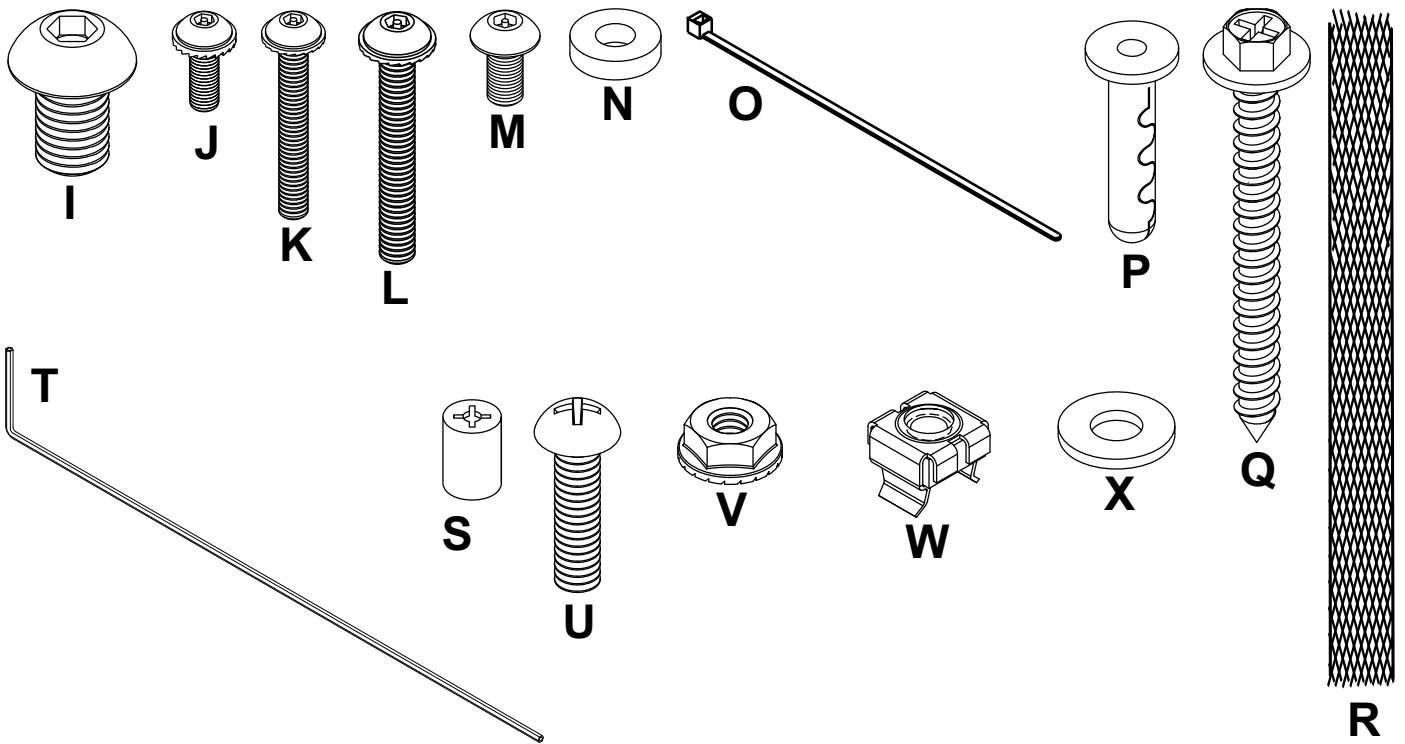- ACC930 - Fastener pack for speaker mounts

Table of Contents
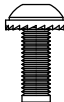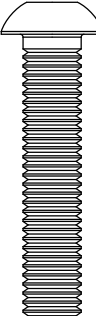
Before you begin, make sure all parts shown are included with your product.
Parts may appear slightly different than illustrated.

Parts List

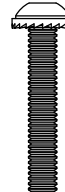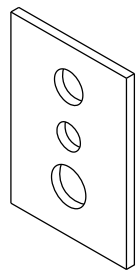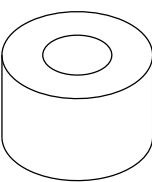|	Description	Qty.	Black Part #	Silver Part #
A	interface plate	2	120-1075	120-4075
B	wall plate	2	120-1076	120-4076
C	support brackets	4	120-1077	120-4077
D	adapter plate	1	201-1110	201-4110
E	deep adapter bracket	2	201-1510	201-4510
F	shallow adapter bracket	2	201-1511	201-4511
G	wall mount assembly	1	201-0385	201-0383
H	locking tab	1	200-1871	200-4871
I	M10 x 15 mm round socket head screw	4	520-9262	520-9262
J	M4 x 12 mm socket pin serrated washer head screws	4	510-1079	510-1079
K	M4 x 20 mm socket pin serrated washer head screws	4	510-1061	510-1061
L	M5 x 40 mm socket pin serrated washer head screws	1	510-1001	510-1001
M	M5 x 10 mm socket pin head screw	5	520-1063	520-1063
N	.125" spacer	1	540-1032	540-1032
O	cable ties	4	560-9711	560-9711
P	Alligator® concrete anchors	8	590-0097	590-0097
Q	#14 x 2.5" wood screws	8	5S1-015-C03	5S1-015-C03
R	18" polyester mesh sleeve	2	600-1014	600-1014
S	.437" retaining spacer	4	590-5005	590-5005
T	4 mm security allen wrench	1	560-1146	560-1146
U	1/4-20 x 1" round phillips head screw	24	510-9110	510-9110
V	1/4-20 flanged serrated locknut	16	530-1021	530-1021
W	1/4-20 Tinnerman® cage nut	12	530-2050	530-2050
X	1/4" flat washer	24	540-9440	540-9440

A   **B**   **C**   **D**

E   **F**   **G**   **H**

I **J** **K** **L** **M** **N** **O** **P** **Q** **R**

T **S** **U** **V** **W** **X**

Security Adapter Bracket Fasteners

M4 x 12 mm (6)
510-1079

M5 x 12 mm (4)
520-1064

M6 x 12 mm (4)
520-1050

M8 x 15 mm (6)
520-1068

M6 x 20 mm (4)
520-9554

M5 x 25 mm (4)
520-1122

M8 x 40 mm (4)
520-1152

M6 x 30 mm (4)
520-1067

M6 x 25 mm (4)
520-1211

M8 x 25 mm (4)
520-1101

M4 x 25 mm (4)
510-1082

multi-washer (6)
580-1036

I.D. 8.7 mm (4)
540-1059

I.D. 5.6 mm (4)
540-1057

Installing to Interior Corner 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 plates (**B**) can be mounted to one or 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 on both walls. **NOTE:** Depending on placement of studs on wall corners, mounting to two studs may not be possible.

Determine the distance from the corner of the wall to the inside edge of the wall plates (**B**) using the equation below and detail 1 to get distance "X". **NOTE:** If mounting speaker mounts to sides of corner mount, screen can be no larger than 40". See page 16 for speaker mount installation.

Measure "X" distance from corner of wall and mark location for inside edge of wall plate. The top mounting slots of wall plate should be located 3.44" (87 mm) above the desired screen center as shown in fig 1.1. Level wall plate, align to location marked for inside edge of wall plate and mark four slots in alignment with center of studs. Repeat for opposite wall plate. Drill 5/32" (4 mm) dia. holes to a minimum depth of 2.5" (64 mm). Make sure that wall plates are level and secure using #14 x 2.5" wood screws (**Q**).

fig. 1.1

fig. 1.2

DETAIL 1

$$"X" = \frac{Y}{1.414} - 21.216$$

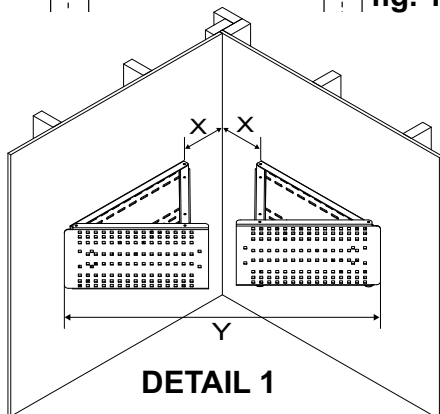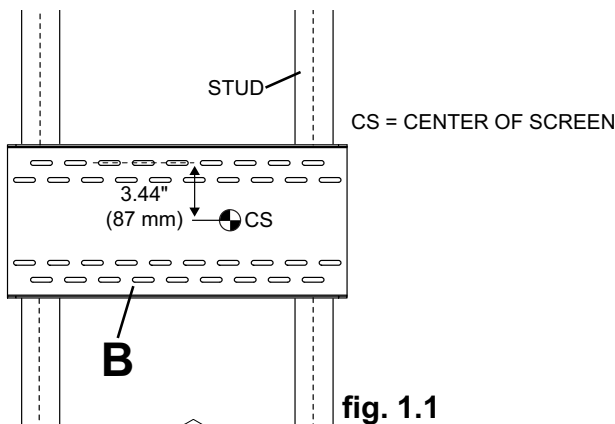## Installing to Exterior Corner Wood Stud Wall

---

⚠ 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.
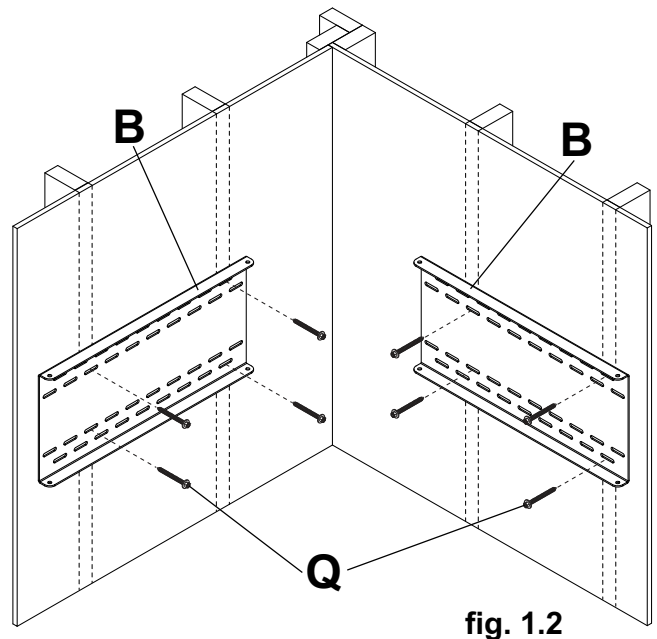
---

1 Wall plates (**B**) can be mounted to one or 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 on both walls. **NOTE:** Depending on placement of studs on wall corners, mounting to two studs may not be possible.
NOTE: If mounting speaker mounts to sides of corner mount, screen can be no larger than 40". See page 16 for speaker mount installation.
Measure 1" (25 mm) from corner of wall and mark location for inside edge of wall plate. The top mounting slots of wall plate should be located 3.44" (87 mm) above the desired screen center as shown in fig 1.3. Level wall plate, align to location marked for inside edge of wall plate and mark four slots in alignment with center of studs. Repeat for opposite wall plate. Drill 5/32" (4 mm) dia. holes to a minimum depth of 2.5" (64 mm). Make sure that wall plates are level and secure using #14 x 2.5" wood screws (**Q**).

STUD

3.44"
(87 mm) CS

1"
(25 mm)

B
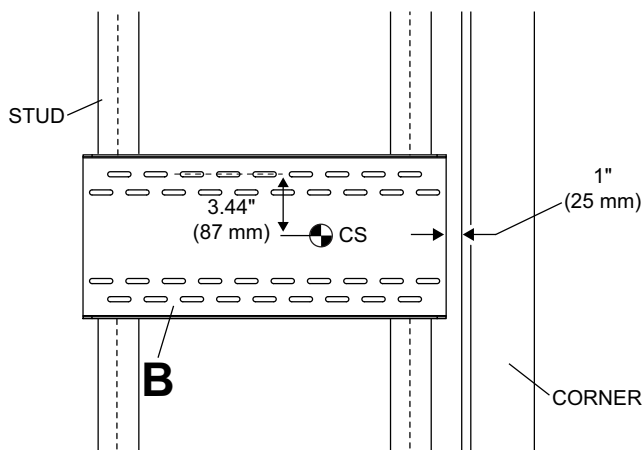
CORNER

CS = CENTER OF SCREEN   **fig. 1.3**

B   **B**
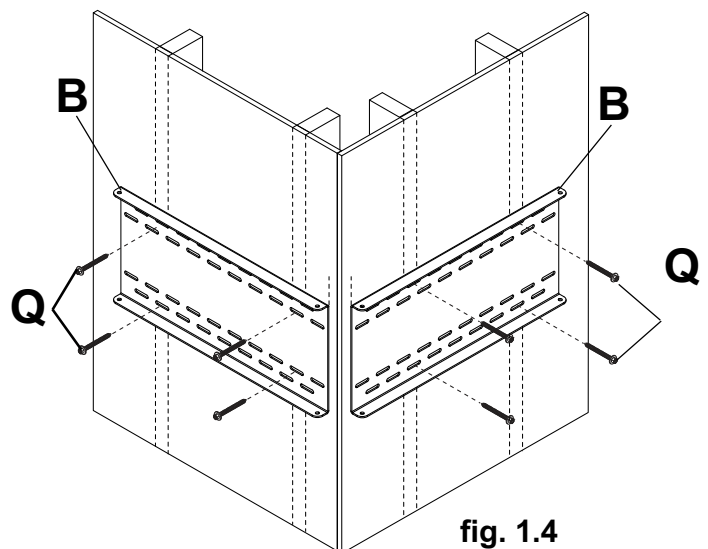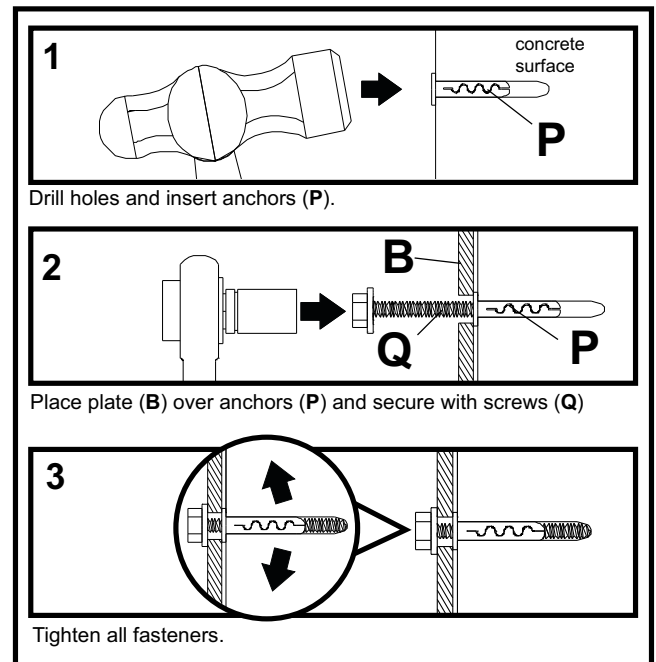
Q   **Q**

fig. 1.4

Installing to Interior Corner Concrete or Cinder Block Wall

⚠ 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 Determine the distance from the corner of the wall to the inside edge of the wall plate (**B**) using the equation and detail 1 on page 5 to get distance "X".
NOTE: If mounting speaker mounts to sides of corner mount, screen can be no larger than 40". See page 16 for speaker mount installation.
Measure "X" distance from corner of wall and mark location for inside edge of wall plate. The top mounting slots of wall plate should be located 3.44" (87 mm) above the desired screen center as shown in fig 1.1 on page 5. Level wall plate (**B**), align to location marked for inside edge of wall plate and mark four slots in alignment with center of studs. Repeat for opposite wall plate. Drill 1/4" (6 mm) dia. holes to a minimum depth of 2.5" (64 mm). Insert anchors (**P**) in holes flush with wall as shown (right). Place wall plate over anchors, make sure that wall plates are level and secure using #14 x 2.5" wood screws (**Q**).
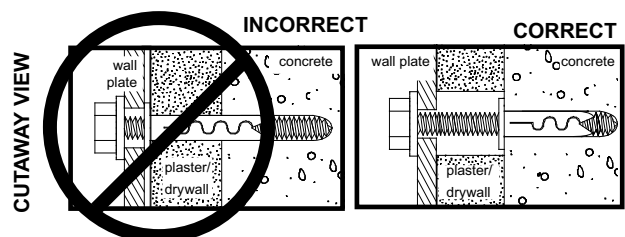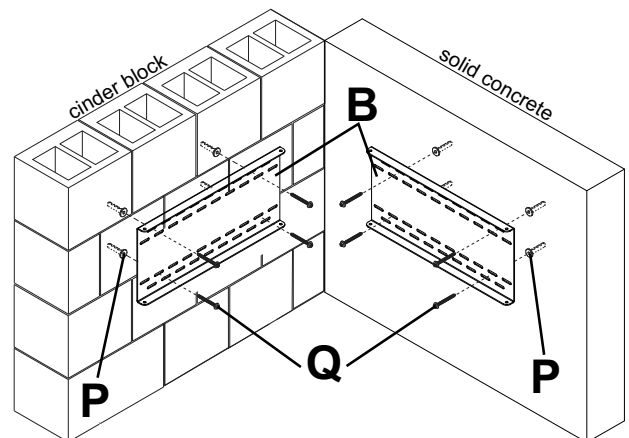

1 Drill holes and insert anchors (**P**).

2 Place plate (**B**) over anchors (**P**) and secure with screws (**Q**)

3 Tighten all fasteners.

⚠ WARNING

- Tighten screws so that wall plate is firmly attached, but do not <u>overtighten</u>. 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 <u>directly</u> 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 right. 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.
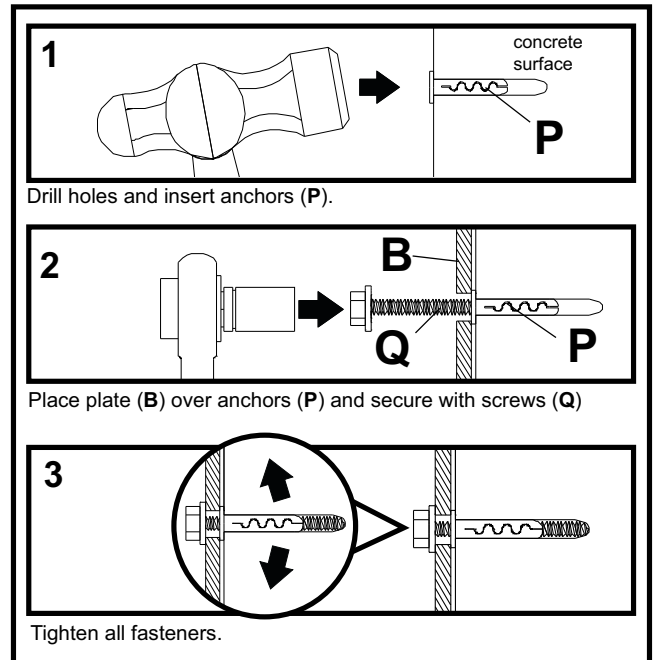

cinder block | solid concrete

CUTAWAY VIEW

INCORRECT | CORRECT

ISSUED: 07-22-08 SHEET #: 120-9055-1

For customer care call 1-800-865-2112 or 708-865-8870.

Installing to Exterior Corner Concrete or Cinder Block Wall

⚠ 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 **NOTE:** If mounting speaker mounts to sides of corner mount, screen can be no larger than 40". See page 16 for speaker mount installation.

Measure 1" (25 mm) from corner of wall and mark location for inside edge of wall plate. The top mounting slots of wall plate should be located 3.44" (87 mm) above the desired screen center as shown in fig 1.3 on page 6. Level wall plate (**B**), align to location marked for inside edge of wall plate and mark four slots in alignment with center of studs. Repeat for opposite wall plate. Drill 1/4" (6 mm) dia. holes to a minimum depth of 2.5" (64 mm). Insert anchors (**P**) in holes flush with wall as shown (right). Place wall plate over anchors, make sure that wall plates are level and secure using #14 x 2.5" wood screws (**Q**).
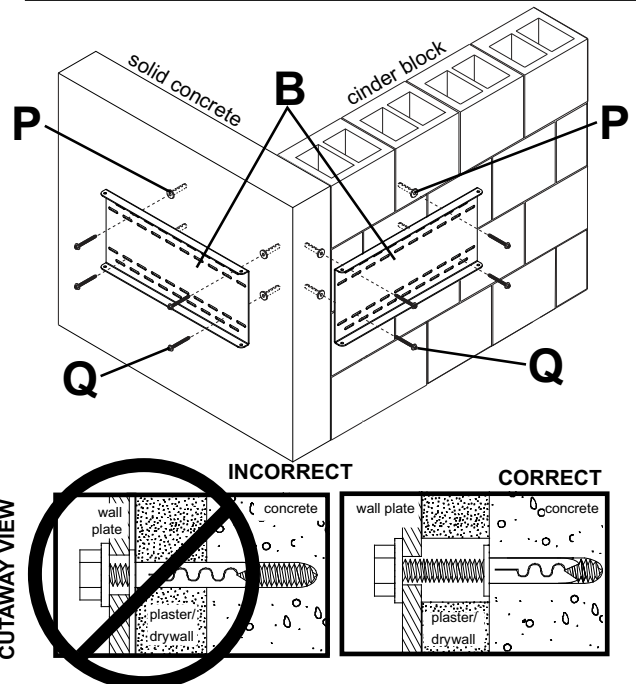
⚠ WARNING

- Tighten screws so that wall plate is firmly attached, but do not <u>overtighten</u>. 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 <u>directly</u> 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 right. 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.

1 Drill holes and insert anchors (**P**).

2 Place plate (**B**) over anchors (**P**) and secure with screws (**Q**)

3 Tighten all fasteners.

INCORRECT   CORRECT

CUTAWAY VIEW

ISSUED: 07-22-08 SHEET #: 120-9055-1

For customer care call 1-800-865-2112 or 708-865-8870.

Attaching Interface Plate

2 Attach interface plate (**A**) to wall plate (**B**) using one 1/4-20 x 1" round phillips head screw (**U**), 1/4" flat washer (**X**) and 1/4-20 flanged serrated locknut (**V**) as shown in fig 2.1 or 2.2 for interior corners or fig 2.3 and 2.4 for exterior corners. Repeat for opposite interface plate.
NOTE: Be sure top flange of interface plate (**A**) rests on top flange of wall plate (**B**).
NOTE: Do not fully tighten fasteners.
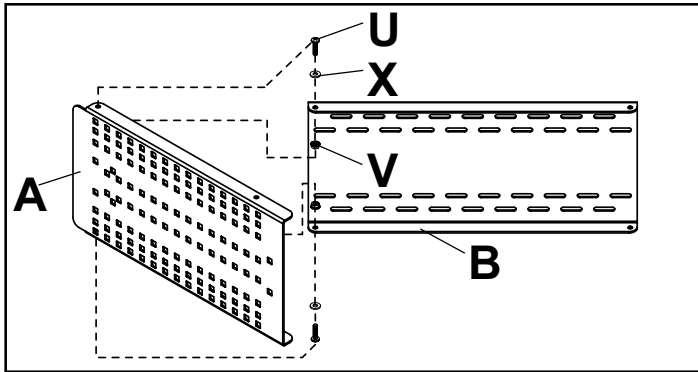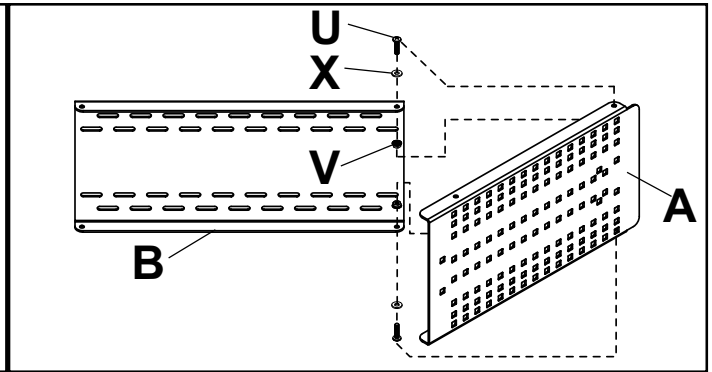
LEFT INTERIOR CORNER

RIGHT INTERIOR CORNER

fig. 2.1   **fig. 2.2**

LEFT EXTERIOR CORNER
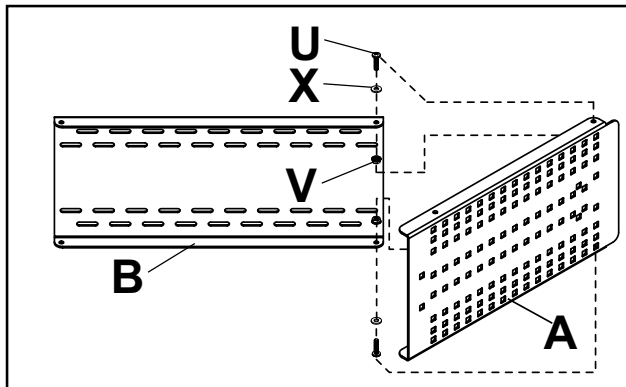
RIGHT EXTERIOR CORNER
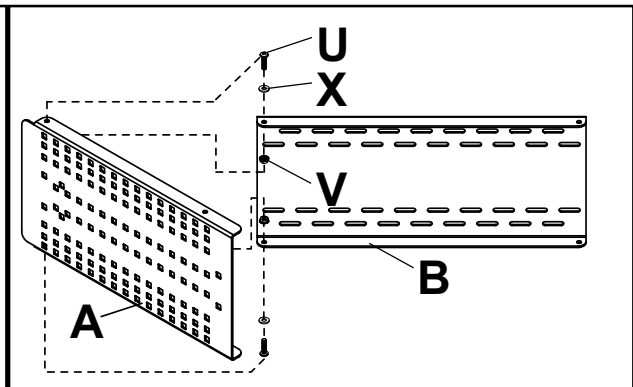
fig. 2.3   **fig. 2.4**

3 Snap installation tab off of wall mount assembly (**G**).

G

INSTALLATION TAB
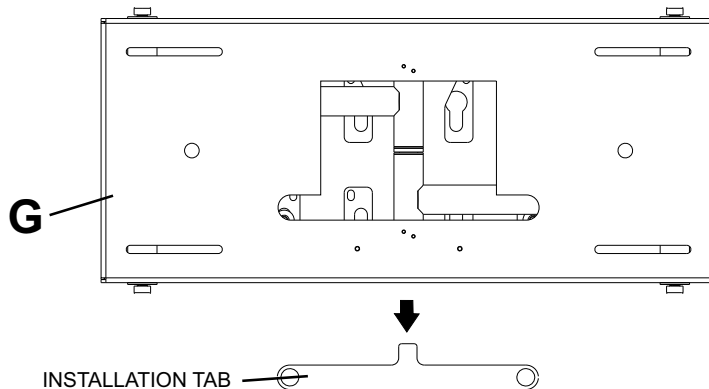
4 Attach and tighten two support brackets (**C**) to inside of interface plate (**A**) and wall plate (**B**) using two sets of 1/4-20 x 1" round phillips head screws (**U**), 1/4" flat washers (**X**) and 1/4-20 flanged serrated locknuts (**V**). Repeate for remaining interface plate then tighten all fasteners.
NOTE: Support bracket flanges must face inward as shown.

U
X
B
V — FLANGE (**C**) FACES DOWN
V — SLOT FACES WALL PLATE
X
U
A — FLANGE (**C**) FACES UP
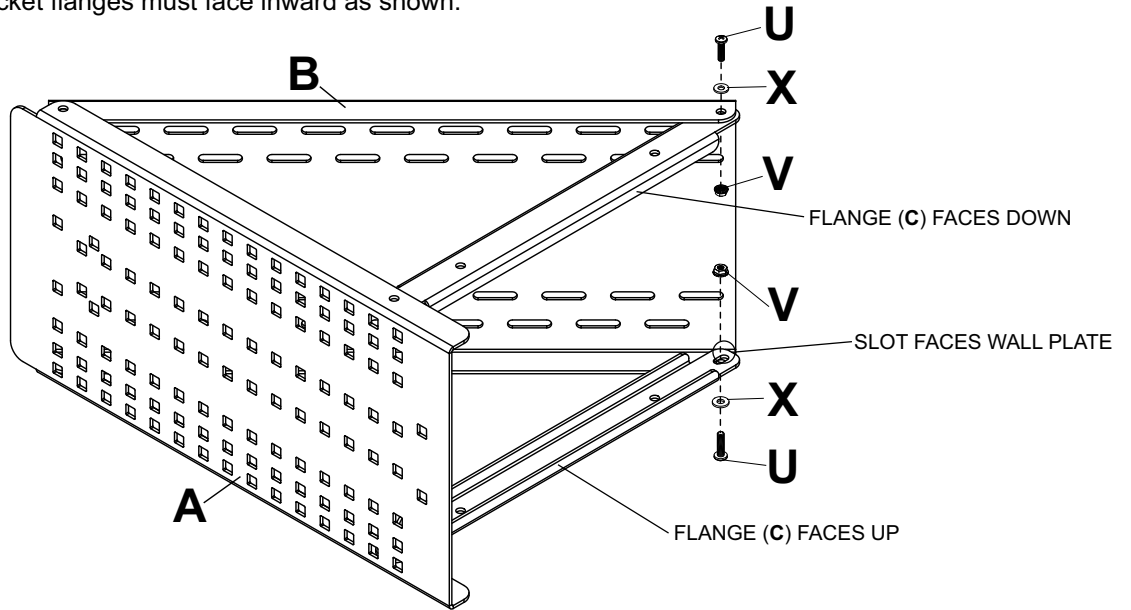
5-1 Align wall mount assembly (**G**) with interface plates (**A**) to determine location of cage nuts (**W**) used to secure wall mount assembly (**G**) to interface plates. Install cage nuts from rear side of interface plates (**A**) as shown in figure 5.1.
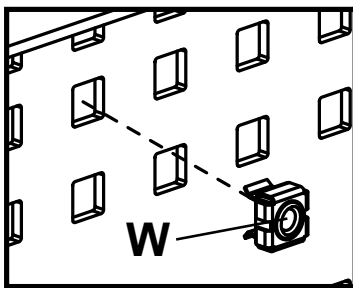
5-2 Attach wall mount assembly (**G**) to interface plates (**A**) using eight 1/4-20 x 1" round phillips head screws (**U**) and 1/4" flat washers (**X**) through slots into cage nuts as shown in figure 5.2.
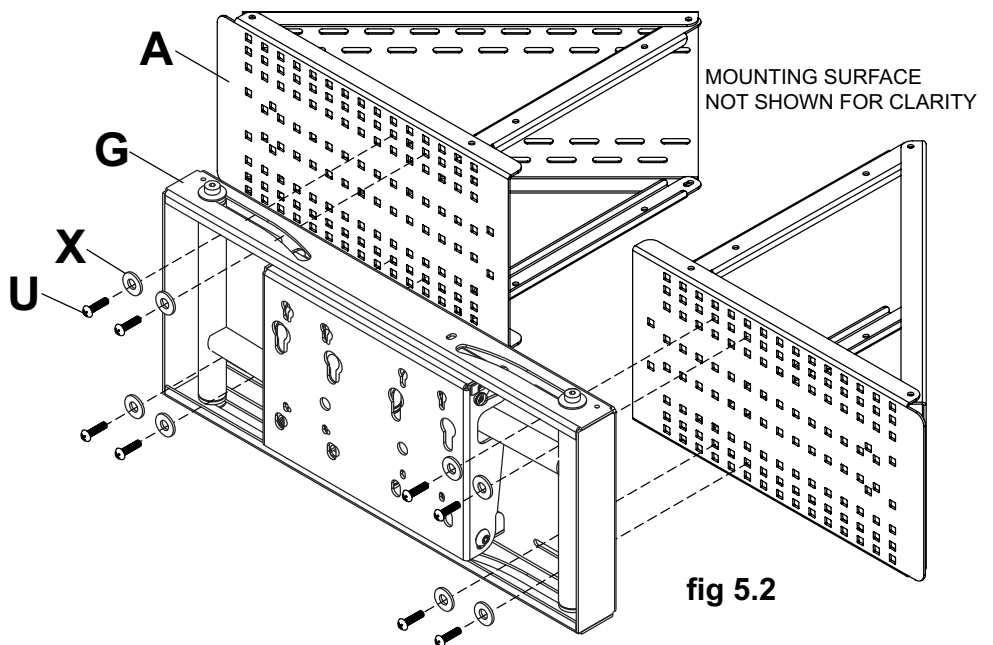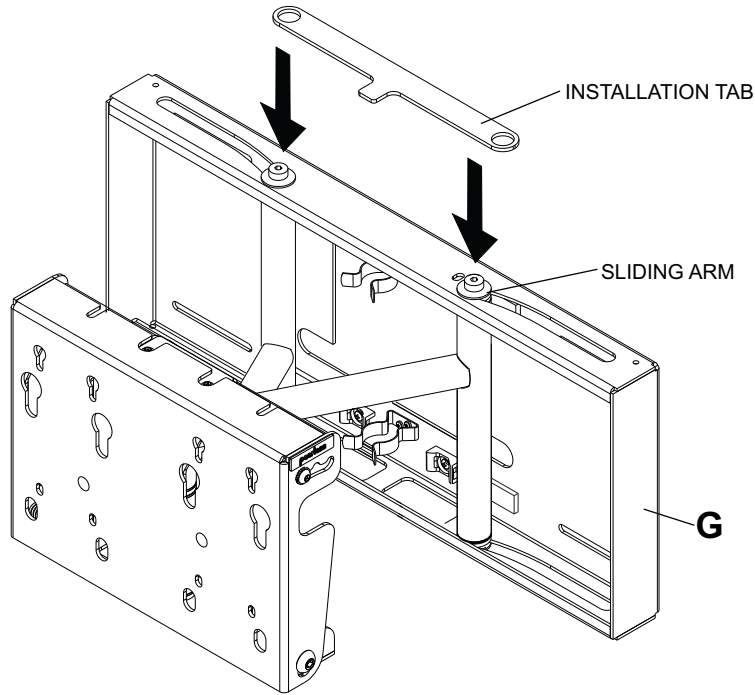
W

fig 5.1

A

G

X

U

MOUNTING SURFACE
NOT SHOWN FOR CLARITY

fig 5.2

6 Place installation tab over sliding arms of wall mount assembly (**G**) to lock them in place.

INSTALLATION TAB

SLIDING ARM

G

7 Thread two M10 x 15 mm screws (**I**), leaving .25" exposed thread, into top holes on back of adapter plate (**D**). Hook adapter plate (**D**) to mounting plate and attach using two bottom M10 x 15 mm screws (**I**) as shown in figures 7.1 and 7.2. Tighten screws using 6 mm allen wrench (not included).
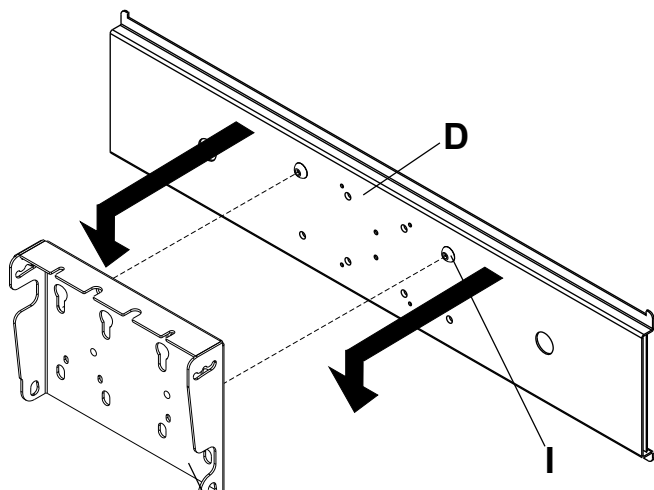
D

I

fig. 7.1

MOUNTING PLATE
(**NOTE:** MOUNTING PLATE
SHOWN WITHOUT FULL
WALL MOUNT ASSEMBLY
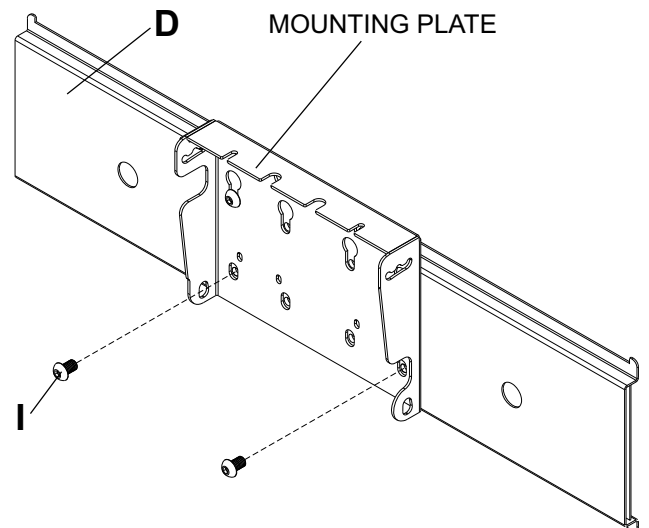FOR CLARITY)

D

MOUNTING PLATE

I

fig. 7.2

Installing Adapter Brackets

⚠ 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.

8 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. Refer to screen manufacturer's instructions or customer service, for removing any knobs, base, cover, or screw(s) on the back of the screen to prepare mounting. These need to be removed to allow the adapter brackets to be attached. Select the small, medium, large or extra large screws from the baffled fastener pack then attach adapter brackets (**E** or **F**) to screen following figure 8.1 or 8.2.

NOTE: Top and bottom mounting holes on screen must be used for attaching brackets. Verify that all holes are properly aligned, and then tighten screws using a phillips screwdriver.

X

E or F

CENTER BRACKETS
VERTICALLY ON BACK OF
SCREEN

Note: "X" dimensions should be equal.

X
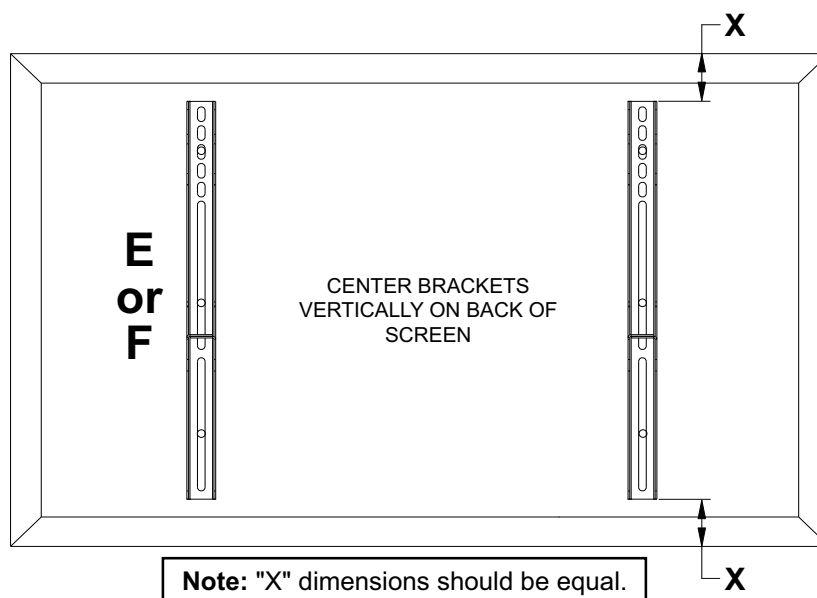
MULTI-WASHER

MEDIUM HOLE FOR M5 SCREWS

SMALL HOLE FOR M4 SCREWS

LARGE HOLE FOR M6 SCREWS

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.

NOTE: For **flat back screens** proceed to step 8-1. For **bump-out or recessed back screen** skip to step 8-2.

For Flat Back Screen

8-1 Refer to **Screen Compatibility Chart** to determine the proper fastener to use. Visit **www.peerlessmounts.com/2** for a full screen compatibility chart for this mount.

Begin with the shortest length screw, hand thread through multi-washer and adapter bracket into screen as shown below. Screw must make at least three full turns into the mounting hole and fit snug into place. Do not over tighten. If screw cannot make three full turns into the screen, select a longer length screw from the baffled fastener pack. Repeat for remaining mounting holes, level brackets and tighten screws.

**NOTE:** Spacers may not be used, depending upon the type of screen.

fig. 8.1

SCREEN

MULTI-WASHER

SCREW

ADAPTER BRACKET
(**E** OR **F**)
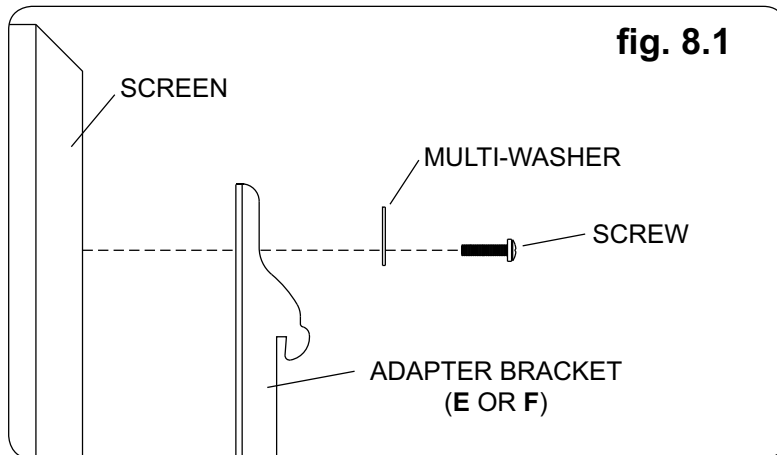
If you have any questions, please call Peerless customer care at **1-800-865-2112**.

For Bump-out or Recessed Back Screen

8-2 Refer to **Screen Compatibility Chart** to determine the proper fastener to use. Visit **www.peerlessmounts.com/2** for a full screen compatibility chart for this mount.

Begin with longer length screw, hand thread through multi-washer, adapter bracket and spacer in that order into screen as shown below. Screw must make at least three full turns into the mounting hole and fit snug into place. Do not over tighten. If screw cannot make three full turns into the screen, select a longer length screw from the baffled fastener pack. Repeat for remaining mounting holes, level brackets and tighten screws.

fig. 8.2

SCREEN

MULTI-WASHER

SPACER

SCREW

ADAPTER BRACKET
(**E** OR **F**)
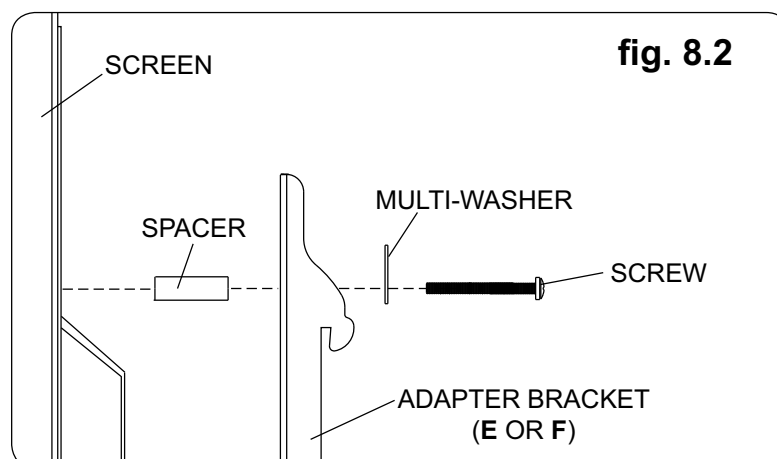
If you have any questions, please call Peerless customer care at **1-800-865-2112**.

⚠ WARNING

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

Mounting and Removing Flat Panel Screen

9 Hook adapter brackets (**E or F)** onto adapter plate (**D**), then slowly swing screen in as shown. Turn screws clockwise at least six times to prevent screen from being removed as shown in detail 1. Tighten using 4 mm security allen wrench (**T**).

Screen can be adjusted horizontally if desired.

NOTE: To lock the screen down, tighten screws to adapter plate as shown in detail 1.

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

D

SCREWS

DETAIL 1

E or F

D
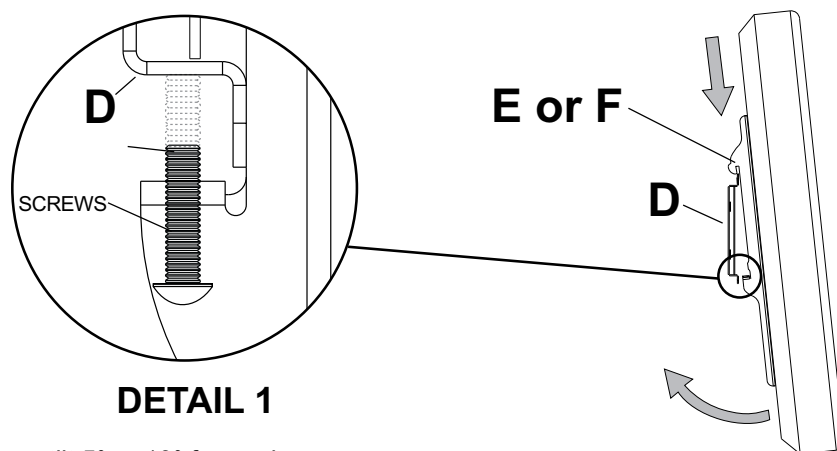
10 Screen can tilt 5° or 10° forward.
NOTE: Screen must be securely attached to mounting plate with all fasteners before adjusting tilt.

To tilt screen 5° forward, lift and pull mounting plate forward until middle notch rests on M6 screw as shown in figure 10.1. Tighten M6 screw (both sides) and M10 screws (both sides).

To tilt screen 10° forward, lift and pull mounting plate forward until rear notch rests on M6 screw as shown in figure 10.2. Tighten M6 screw (both sides) and M10 screws (both sides).

NOTE: For security models, tighten M6 screw using security allen wrench (**T**). For all M10 screws, use 6 mm allen wrench (not included).
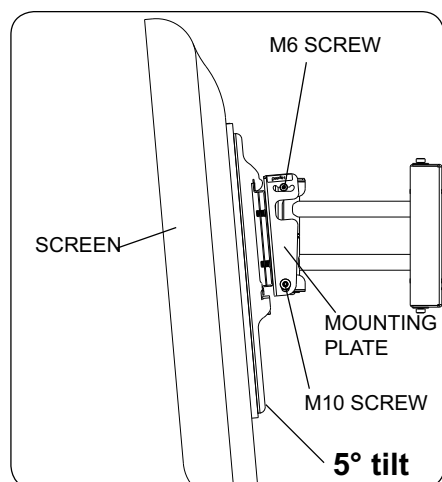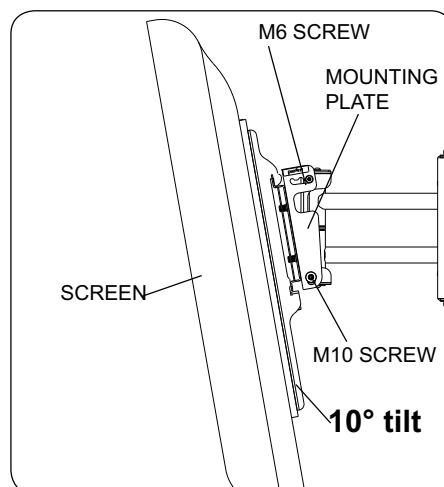
M6 SCREW

SCREEN

MOUNTING PLATE

M10 SCREW

5° tilt

fig. 10.1

M6 SCREW

MOUNTING PLATE

SCREEN

M10 SCREW

10° tilt

fig. 10.2

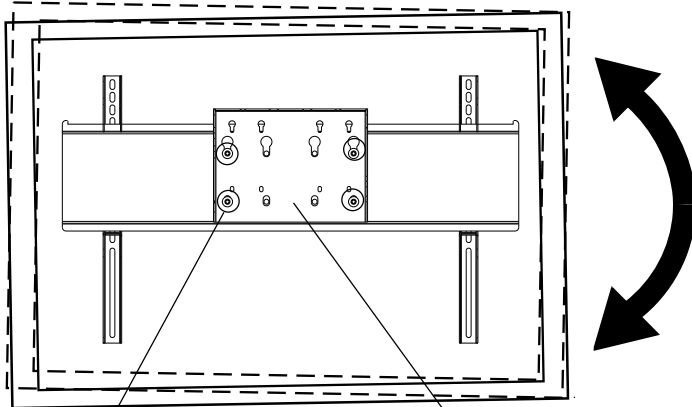For customer care call 1-800-865-2112 or 708-865-8870.

11 Roll can be adjusted 1° clockwise or counterclockwise.

To adjust roll, loosen M10 x 15 mm screws (**I**) slightly, leaving them snug. Level screen and adapter brackets, then tighten screws (**I**).

**NOTE:** When adjusting roll, screws should be retightened as indicated in step 8.

M10 x 15 MM SCREW (**I**)

NOTE: MOUNTING PLATE SHOW WITHOUT FULL WALL MOUNT ASSEMBLY FOR CLARITY.

BACK VIEW

12 **Optional:** To lock mount in closed position, insert one M5 x 40 mm screw (**L**) into tapped hole in either top or bottom of flat plate.

NOTE: Full assembly/screen not shown for clarity.

L

TAPPED HOLE

TAPPED HOLE

FLAT PLATE
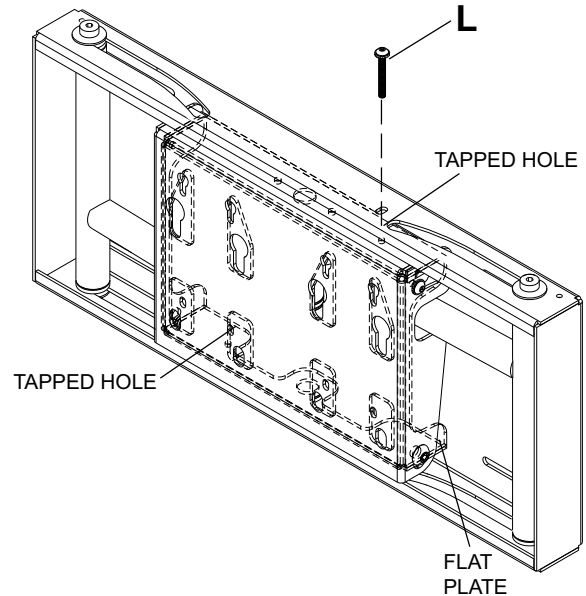
13 **Optional:** To lock one sliding arm of mount in place, slide locking tab (**H**) over top or bottom of sliding arm and attach to mount using one M5 x 10 mm screw (**M**) and one spacer (**N**).

NOTE: Full assembly/screen not shown for clarity.

M
H
N

SLIDING ARM

14 Slide one mesh sleeve (**R**) over each cable. Use cable ties (**O**) to tighten both ends of mesh sleeves to cables.

NOTE: Loop cable ties through cable mounts and tighten cable and mesh sleeve to cable mounts.

R

CABLE MOUNTS

O

For customer care call 1-800-865-2112 or 708-865-8870.
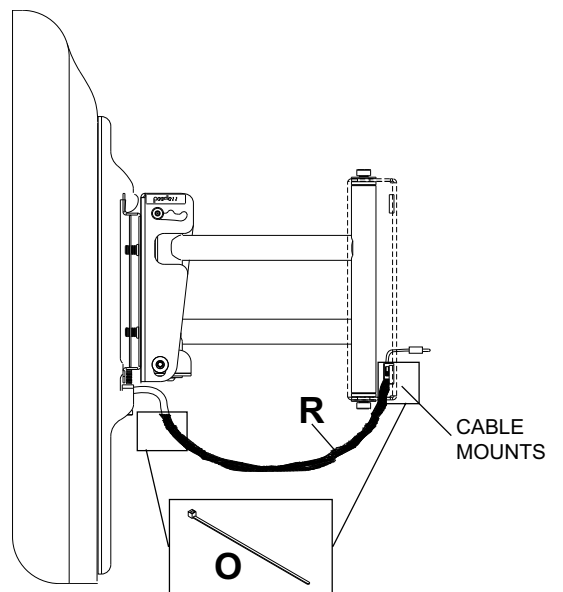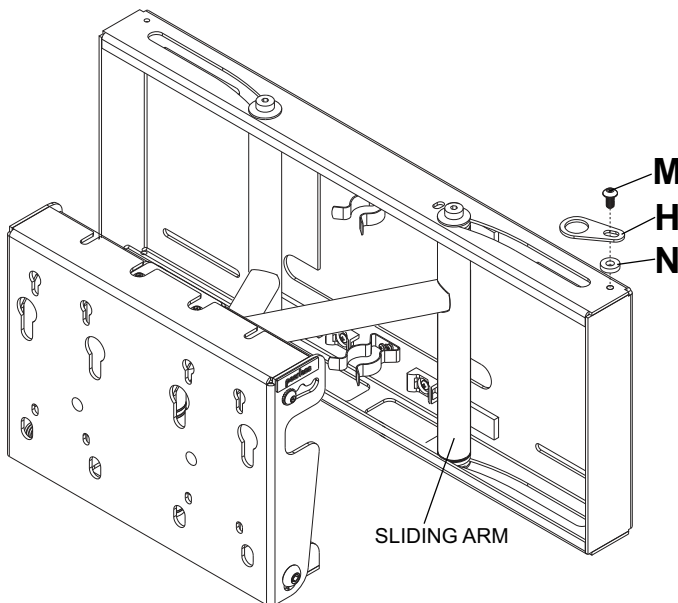
Installing Speaker Mounts (optional)

15 **NOTE:** Corner mount may be visible with smaller size screens.
NOTE: Speaker mount (sold separately) may appear different than illustrated. ACC930 (sold separately) is required to attach speaker mount to corner mount.
Using hole pattern shown below, attach speaker mount to interface plate (**A**) using two screws and two washers through the front and two nuts through the rear. **NOTE:** Fasteners not included for installing speaker mount.

Visit the Peerless Web Site at www.peerlessmounts.com

For customer care call 1-800-865-2112 or 708-865-8870.