peerless®

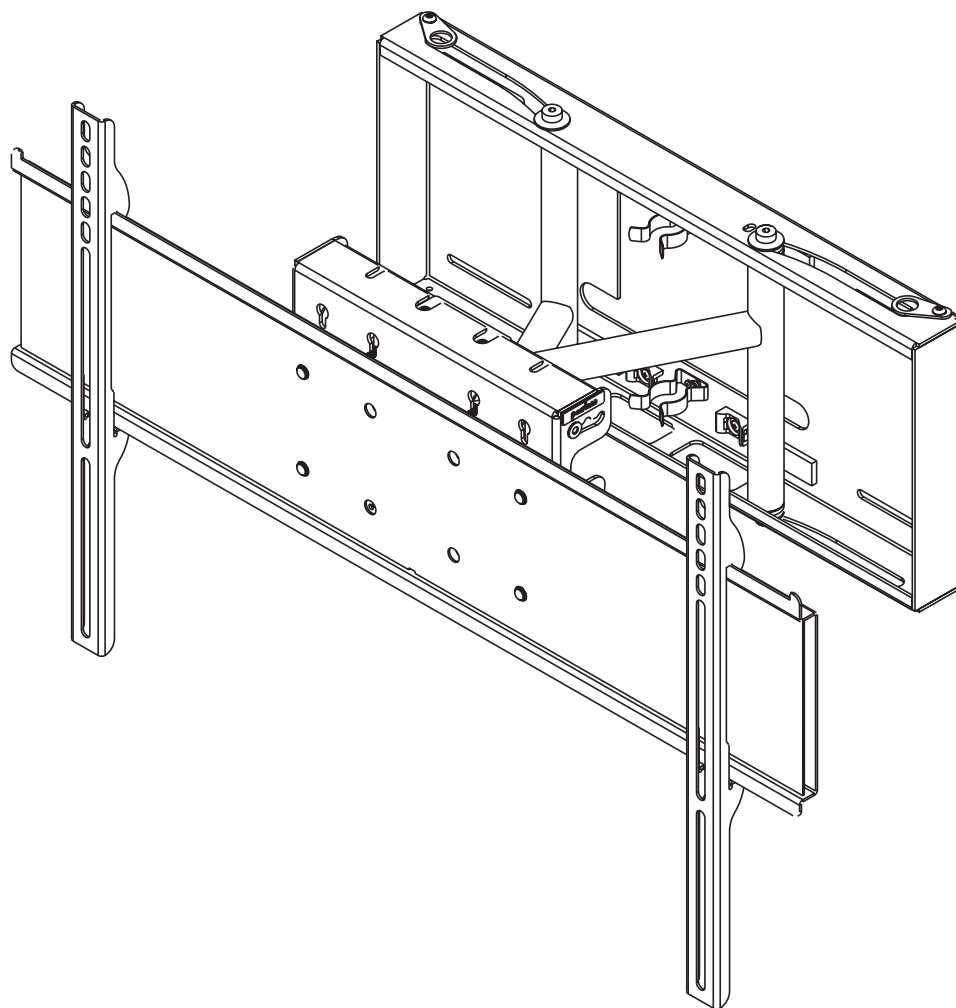# Installation and Assembly:

Pull-out Swivel Wall Mount with Universal Adapter Bracket for 32" - 58" Flat Panel Screens

Models: SP850-UNLP-GB, SP850-UNLP-GS, RTPS58I, RTPS58SI

Max Load Capacity: 150 lb (68 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, please call Peerless customer care at 1-800-729-0307.

- This product should only be installed by a qualified professional.

- 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 of 150 lb (68 kg).

- 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.

- Do not lift more weight than you can handle. Use additional man power or mechanical lifting equipment to safely handle placement of the screen.

- 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)
- 3/8" socket wrench (3/8" extended driver is recommended)
- phillips screwdriver
- drill
- 1/4" bit for concrete and cinder block wall
- 5/32" bit for wood stud wall
- level
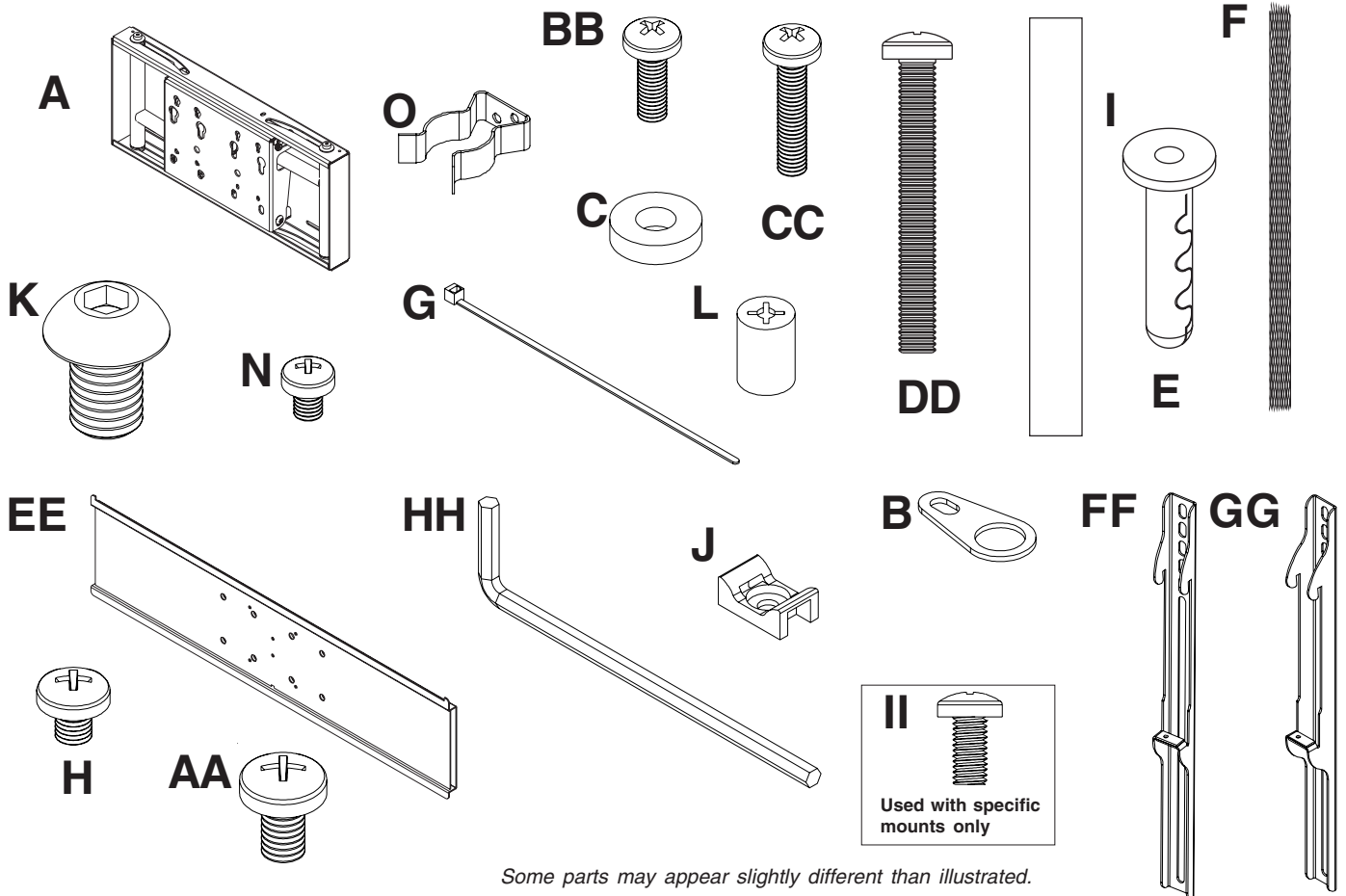- 6 mm allen wrench
- scissors

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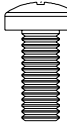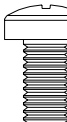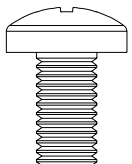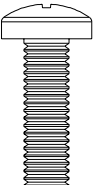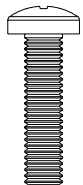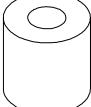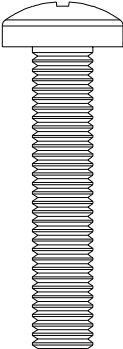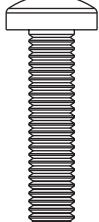
For customer care call (800) 729-0307 or (708) 865-8870.

Parts List

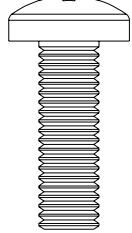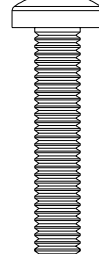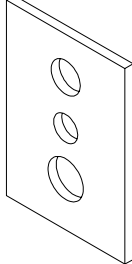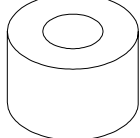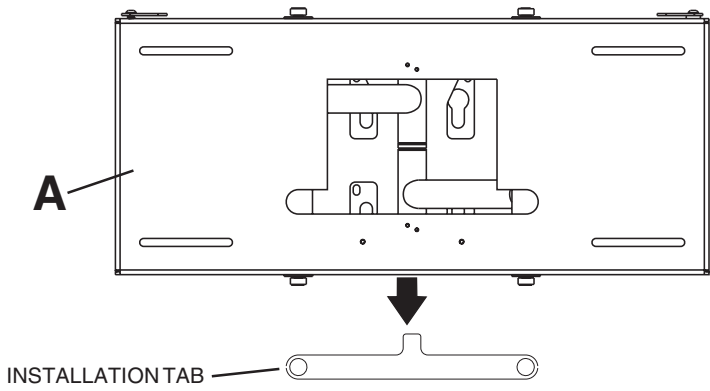|	Description	Qty.	SP850-UNLP-GB Black Part #	SP850-UNLP-GS Silver Part #	RTPS58I Black Part #	RTPS58SI Silver Part #
A	wall mount assembly	1	201-P1273	201-C4271	201-P1273	201-C4271
B	locking tab	1	200-P1871	200-C4871	200-P1871	200-C4871
C	.219 ID x .5 OD x .125H spacer	1	540-1032	540-1032	540-1032	540-1032
D	#14 x 2.5" hex head wood screw	4	5S1-015-C03	5S1-015-C03	5S1-015-C03	5S1-015-C03
E	Alligator® anchor	4	590-0097	590-0097	590-0097	590-0097
F	18" polyester mesh sleeve	2	600-1014	600-1014	600-1014	600-1014
G	cable tie	4	560-9711	560-9711	560-9711	560-9711
H	M4 x 5 mm phillips screw	2	520-1307	520-1307	520-1307	520-1307
I	bumper strip	1	570-1030	570-1030	570-1030	570-1030
J	plastic cable mount	2	590-1199	590-1199	590-1199	590-1199
K	M10 x 15 mm socket head screw	4	520-9262	520-9262	520-9262	520-9262
L	.198 x .313 x .437H retaining spacer	4	590-5005	590-5005	590-5005	590-5005
N	M3 x 4 mm phillips screw	4	520-1306	520-1306	520-1306	520-1306
O	spring clip	2	560-9725	560-9725	560-9725	560-9725
AA	M5 x 10 mm screw	5	520-1233	520-1233	520-1233	520-1233
BB	M4 x 12 mm screw	4	504-9013	504-9013	504-9013	504-9013
CC	M4 x 20 mm screw	4	504-9020	504-9020	504-9020	504-9020
DD	M5 x 40 mm screw	1	520-1199	520-1199	520-1199	520-1199
EE	adapter plate	1	201-P1110	201-C4110	201-P1110	201-C4110
FF	shallow adapter bracket	2	200-P1754	200-C4755	200-P1754	200-C4755
GG	deep adapter bracket	2	200-P1750	200-C4751	200-P1750	200-C4751
HH	allen wrench	1	560-0072	560-0072	560-0072	560-0072
II	M5 x 10 mm screw	4	520-9250	520-9250	520-9250	520-9250
JJ	installation kit (not shown)	1	n/a	n/a	200-8570	200-8570

II
Used with specific mounts only

Some parts may appear slightly different than illustrated.

Phillips Adapter Bracket Fasteners

M4 x 12 mm (6)
504-9013

M5 x 12 mm (4)
520-1027

M6 x 12 mm (4)
520-1128

M8 x 16 mm (6)
520-9257

M6 x 20 mm (4)
520-9402

M5 x 25 mm (4)
520-9543

M4 x 25 mm (4)
504-1015

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

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

M8 x 40 mm (4)
520-1136

M6 x 25 mm (4)
520-1208

M8 x 25 mm (4)
520-1031

M6 x 30 mm (4)
510-9109

multi-washer (6)
580-1036

1 Snap installation tab off of wall mount assembly (**A**).

A

INSTALLATION TAB

Installation to Wood Stud Wall

2 Using a stud finder, locate the edges of the wood studs used in mounting this product. Use of an edge-to-edge stud finder is highly recommended. Based on its edges and using a level, draw a vertical line down the center of each stud. Mark a point (**point 1**) on the right stud centerline where upper right slot will be located. Using a level, mark a point (**point 2**) on the left stud centerline level with point 1 as shown in figure 2.1. Drill 5/32" diameter holes 2-1/2" deep through studs at the two points. Loosely fasten wall mount assembly (**A**) to wall using two #14 x 2-1/2" wood screws (**D**) as shown in figure 2.2. Level, hold, and then tighten screws.

Mark two more points for bottom slots on the right and left stud centerlines. Drill 5/32" diameter holes 2-1/2" deep through studs at the two points. Using two #14 x 2-1/2" wood screws, fasten bottom of wall mount assembly to wall as shown in figure 2.3.
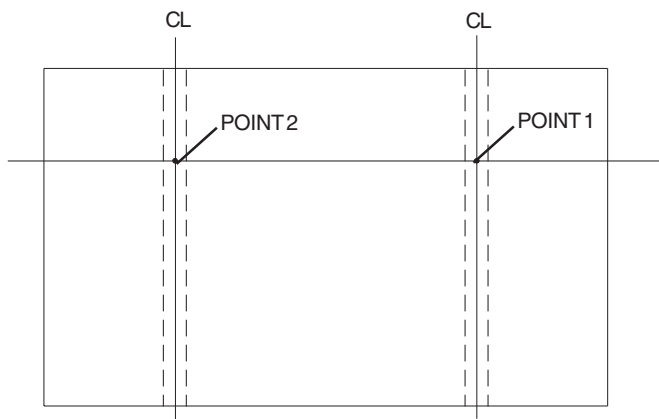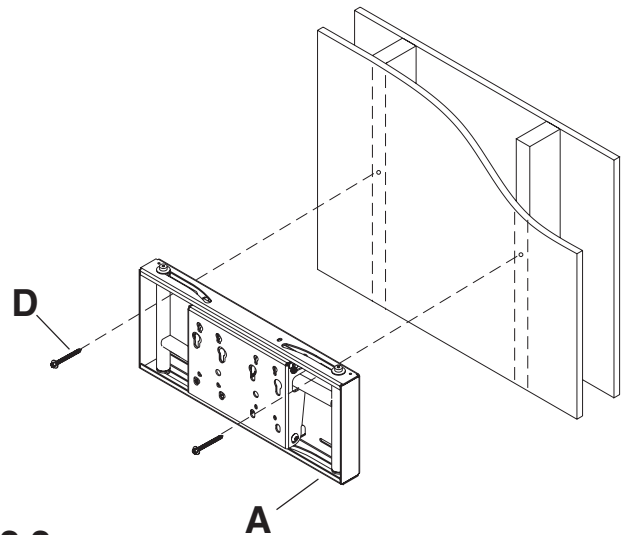
fig 2.1

CL = stud centerline

fig 2.2
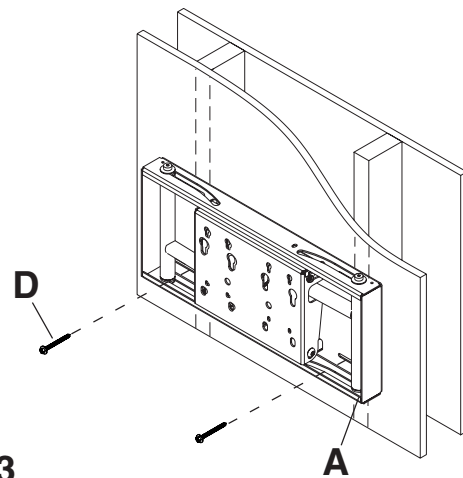
fig 2.3

ISSUED: 11-21-06 SHEET #: 202-9183-5 10-18-07

Installation to Solid Concrete and 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.

- Make sure that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.

2 Position wall mount assembly (**A**) at desired position on wall. Use wall mount assembly, making sure that it is level, as a template to mark holes. Drill four 1/4" (6 mm) dia. holes to a minimum depth of 2-1/2" (64 mm). Concrete must be 2000 psi density minimum. Insert anchors (**E**) in holes flush with wall as shown in figure 2.4. Place wall mount assembly over anchors and secure with #14 x 2-1/2" (6 mm x 65 mm) wood screws (**D**) as shown in figure 2.5. Make sure wall plate is level and tighten all fasteners.

⚠ WARNING

- Tighten wood screws firmly, <u>but do not overtighten</u>. Overtightening can damage the screws, greatly reducing their holding power.

- Never tighten in excess of 80 in • lb (9 N.M.).

⚠ WARNING

- Concrete anchors are **not** intended for attachment to concrete wall covered with a layer of plaster, drywall, or other finishing material as shown below. If mounting to concrete wall covered with plaster/drywall is unavoidable, plaster/drywall (up to 5/8" thick) 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.

1 concrete wall — **E**
Drill holes and insert anchors

2 **A** **D** **E**
Place wall plate (**A**) over anchors and secure with screws (**D**)

3
Tighten all fasteners

fig 2.4

CUTAWAY VIEW

CORRECT — **A** concrete / plaster/dry wall

INCORRECT — **A** concrete / plaster/dry wall

SOLID CONCRETE   CINDER BLOCK
E
D
A
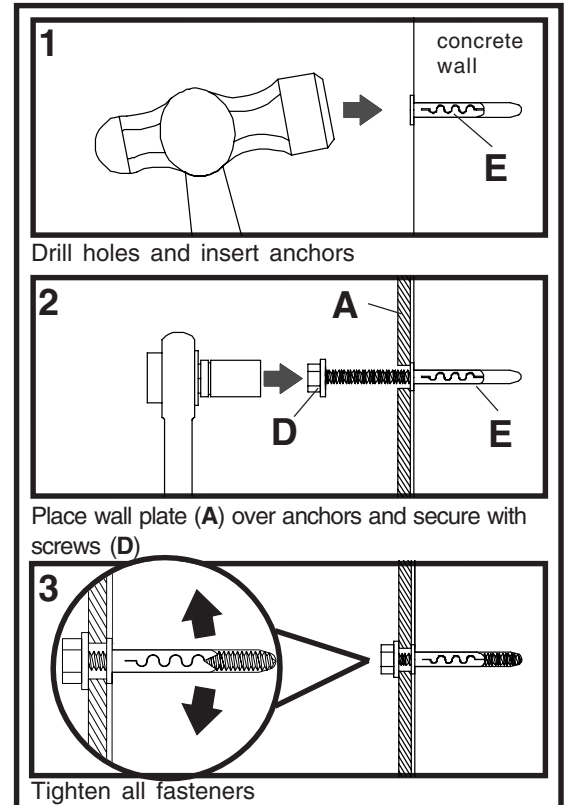
fig 2.5

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

INSTALLATION TAB

SLIDING ARM

A
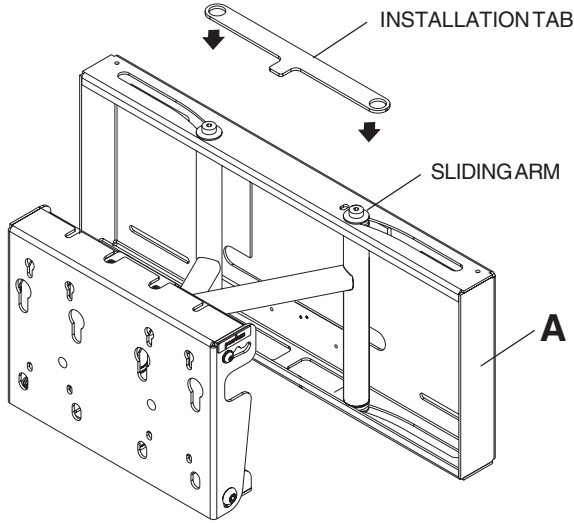
4 **Optional:** Using scissors, cut bumper strip (**I**) into two 2" pieces and one 10" piece. Adhere bumper strip pieces to wall mount assembly (**A**) where indicated by reference marks.

I

REFERENCE MARKS

I

I

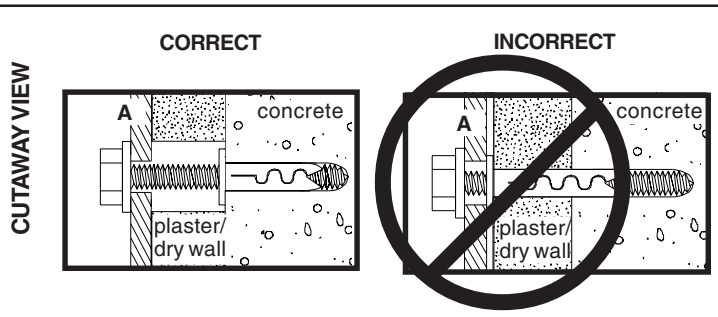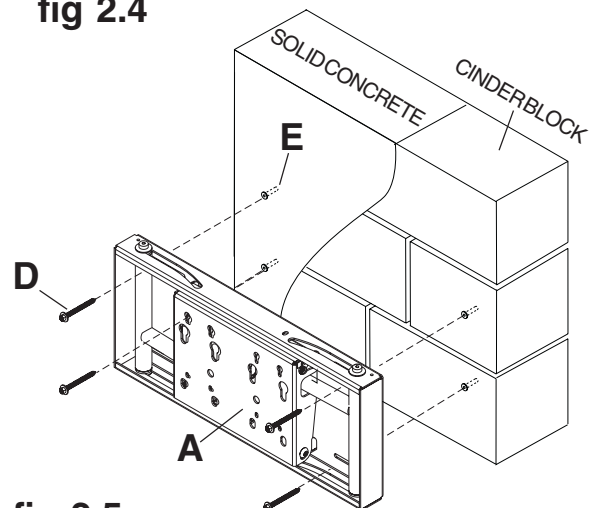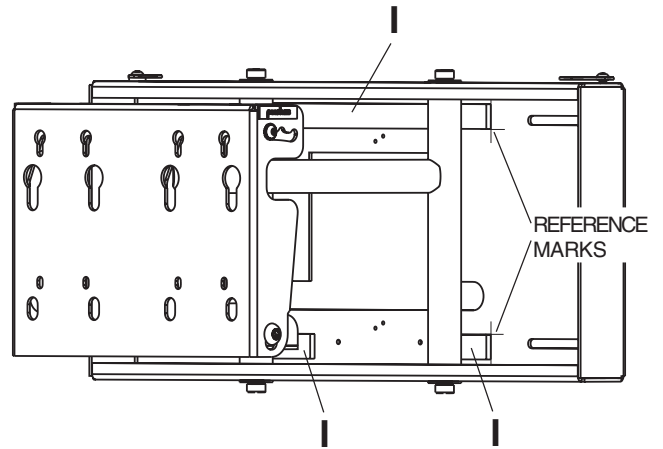5 **Optional:** Attach two spring clips (**O**) to wall mount assembly (**A**) using four M3 x 4 mm phillips screws (**N**).

NOTE: Remove installation tab after arms are locked.

INSTALLATION TAB

O

A

N
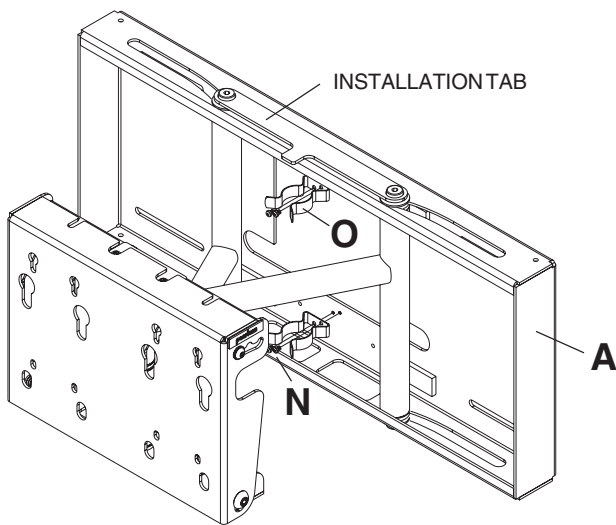
6 **Optional:** Attach two cable mounts (**J**) to wall mount assembly (**A**) using two M4 x 5 mm phillips screws (**H**).

NOTE: Remove installation tab after arms are locked.

J

A

H

Installing Adapter Plate

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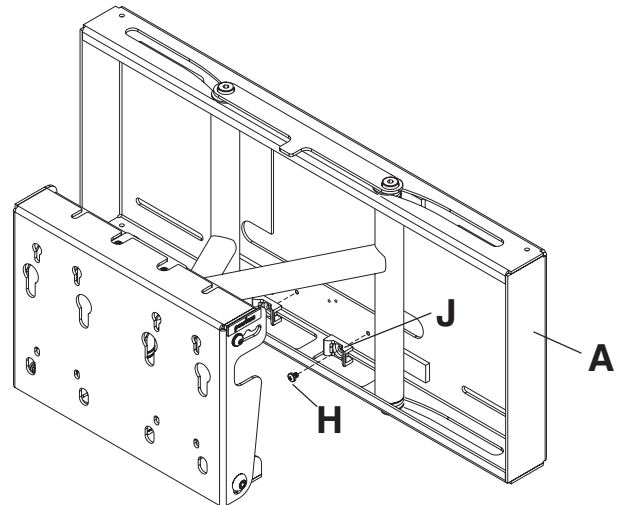
EE

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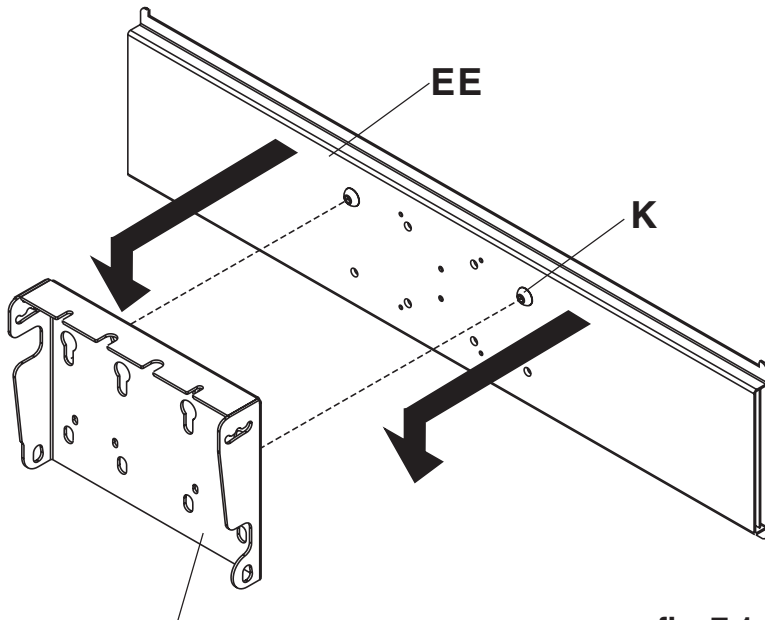
MOUNTING PLATE
(**NOTE:** MOUNTING PLATE
SHOWN WITHOUT FULL
WALL MOUNT ASSEMBLY
FOR CLARITY)

fig. 7.1

EE

MOUNTING PLATE

K

fig. 7.2

Installing Adapter Brackets

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

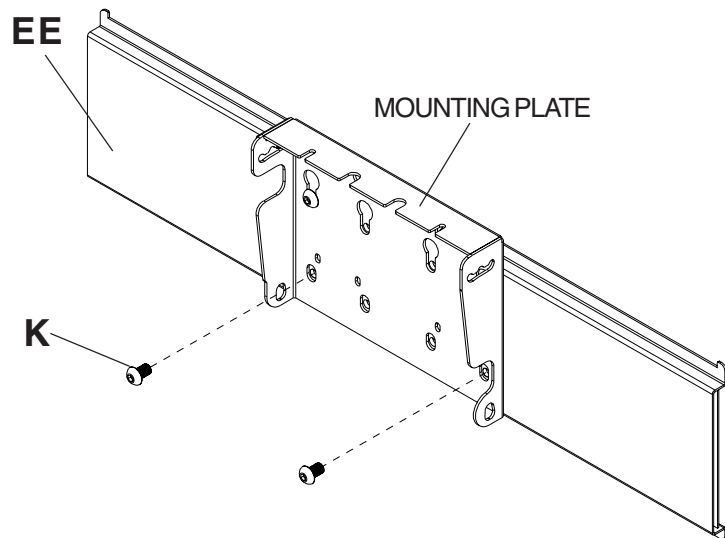To prevent scratching the screen, set a cloth on a flat, level surface that will support the weight of the screen. Place screen face side down. If screen has knobs on the back, remove them to allow the adapter brackets to be attached. Place adapter brackets (**FF or GG**) on back of screen, align to holes, and center on back of screen as shown in figure 8.1. Attach the adapter brackets to the back of the screen using the appropriate combination of screws, multi-washers, and spacers as shown in figure 8.3.

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.

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 8.2.
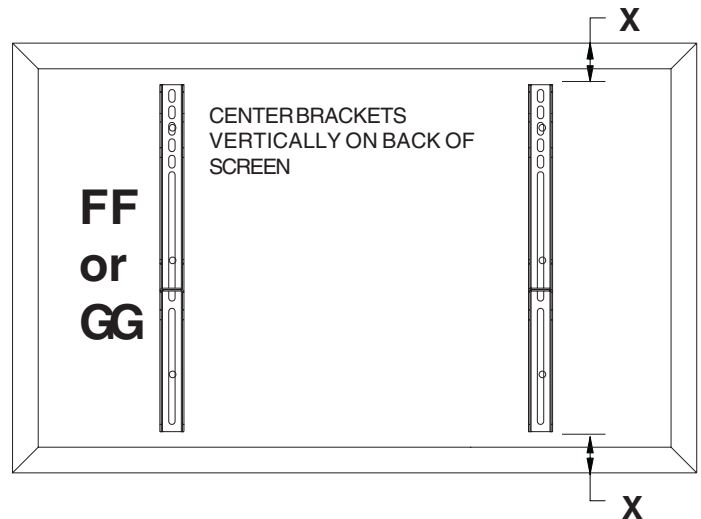
FF or GG

CENTER BRACKETS VERTICALLY ON BACK OF SCREEN

fig 8.1

Note: "X" dimensions should be equal.

⚠ WARNING

• 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.
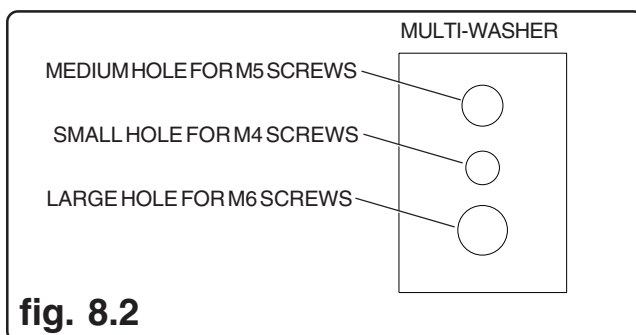
MULTI-WASHER

MEDIUM HOLE FOR M5 SCREWS

SMALL HOLE FOR M4 SCREWS

LARGE HOLE FOR M6 SCREWS

fig. 8.2

FF or GG

SCREWS
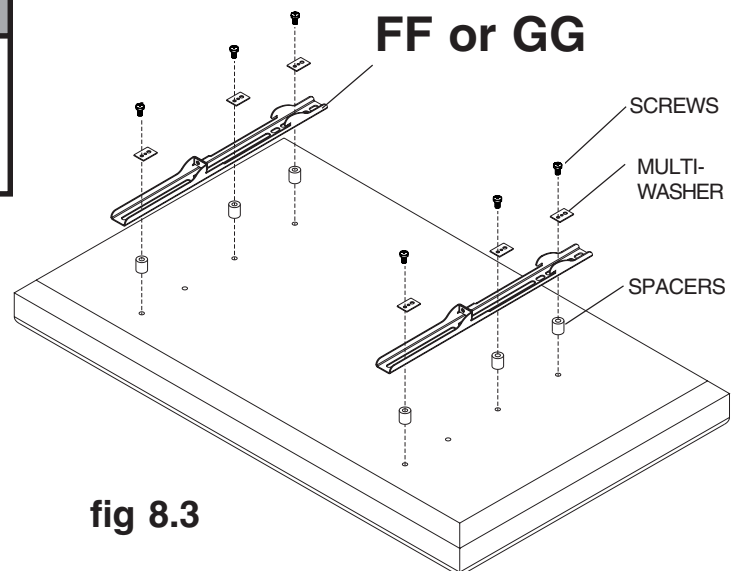
MULTI-WASHER

SPACERS

fig 8.3

⚠ 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 (**FF or GG)** onto adapter plate (**EE**), 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.
Note: Tighten using security allen wrench (**HH**).

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.

EE

SCREWS

ADAPTER BRACKET

FF or GG

EE

DETAIL 1
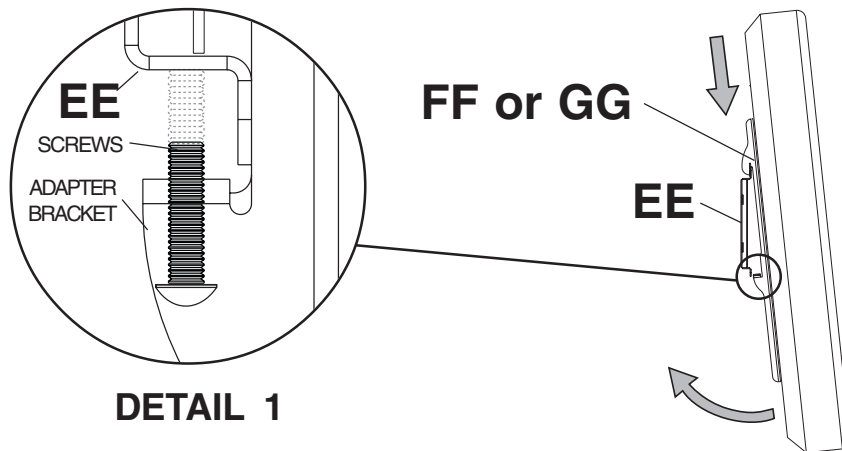
10 Screen can tilt 5° or 10° forward.
Note: Screen must be securely attached to mounting plate with all fasteners before adjusting tilt.

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.

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.
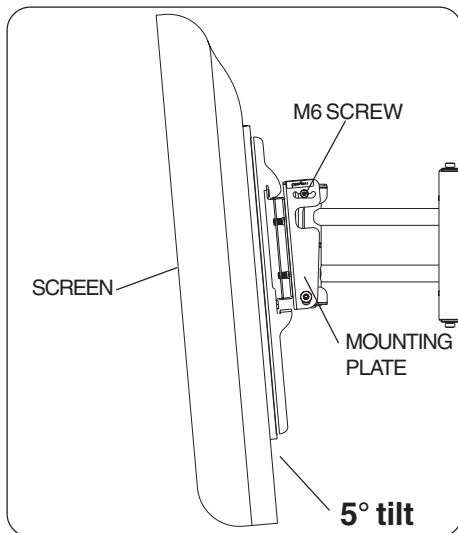
M6 SCREW

SCREEN

MOUNTING PLATE

5° tilt

fig. 10.1

M6 SCREW

SCREEN

MOUNTING PLATE

10° tilt
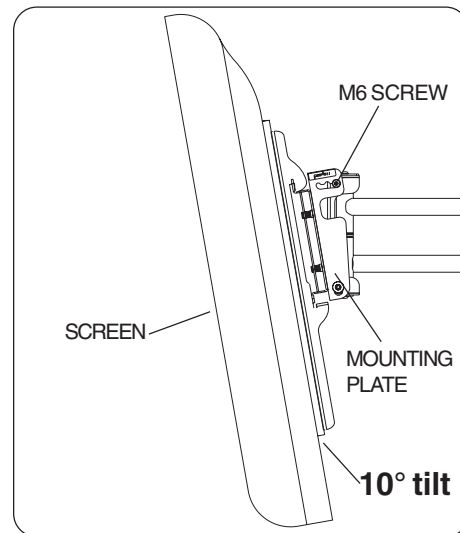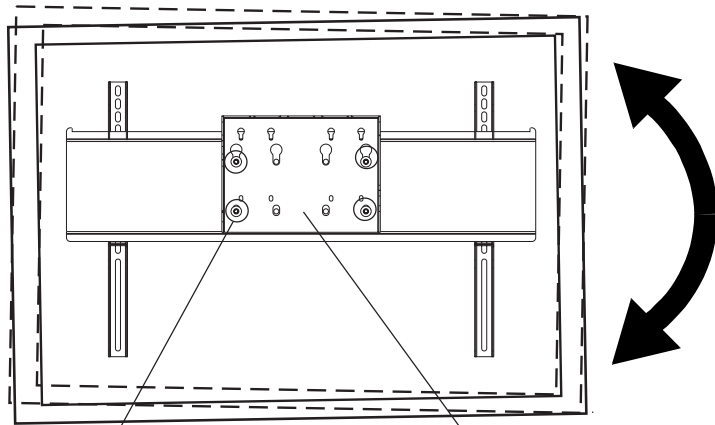
fig. 10.2

ISSUED: 11-21-06 SHEET #: 202-9183-5 10-18-07

11 Roll can be adjusted 1° clockwise or counterclockwise.

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

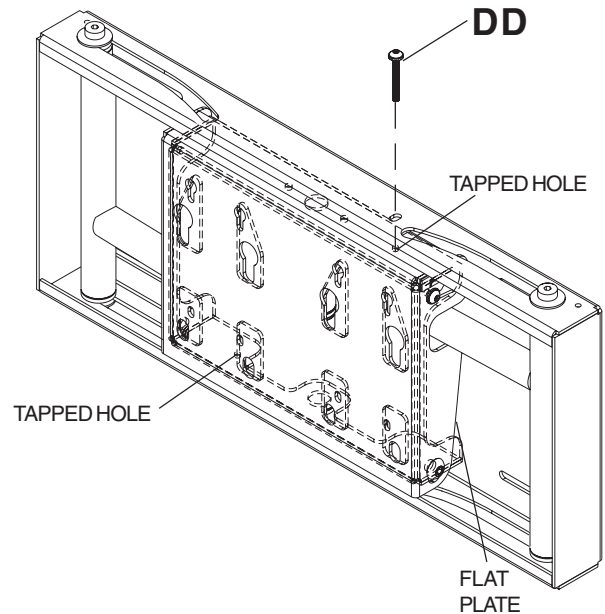**Note:** When adjusting roll, M6 screws should be tight as indicated in step 7.

SCREEN FASTENER

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

BACK VIEW

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

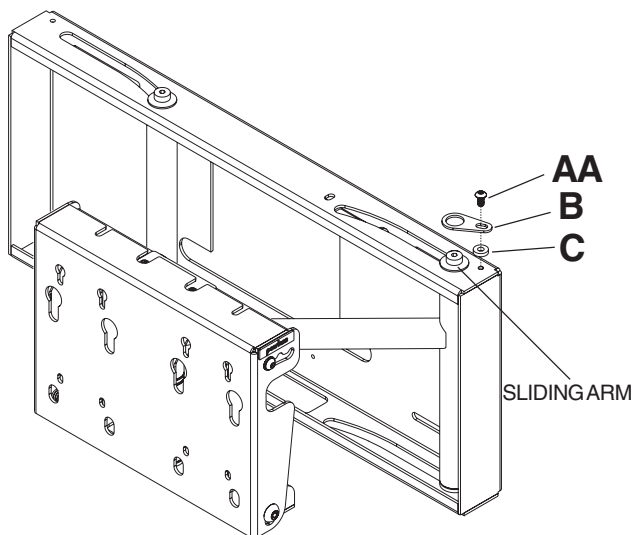**Note:** Screen/Adapter plate not shown for clarity.

DD

TAPPED HOLE

TAPPED HOLE

FLAT PLATE

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

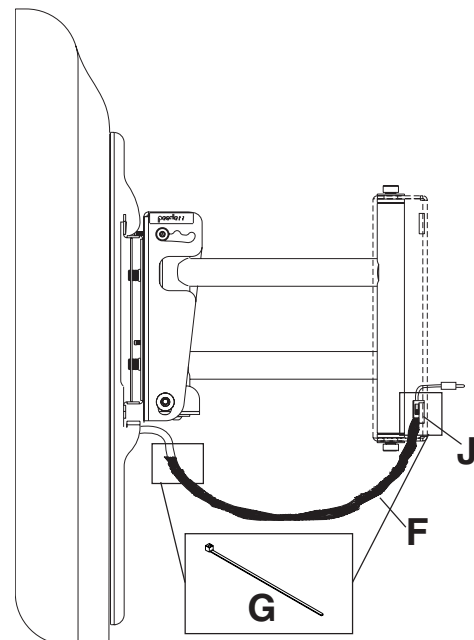**Note:** Screen not shown for clarity.

AA
B
C

SLIDING ARM

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

Note: If cable mounts (**J**) are used, loop cable ties through cable mounts and tighten cable and mesh sleeve to cable mounts.

J

F

G