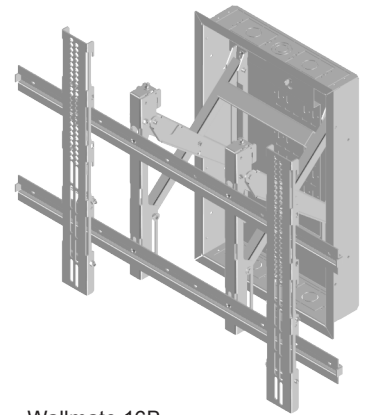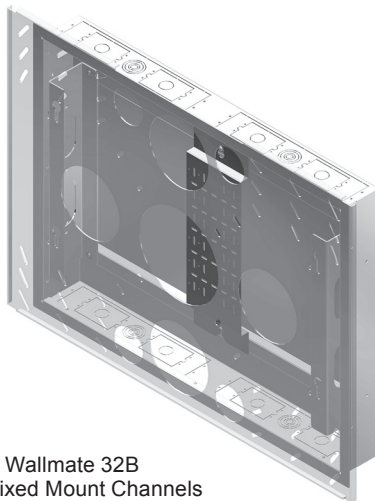# WALLMATE
FLAT PANEL INTEGRATION SYSTEM
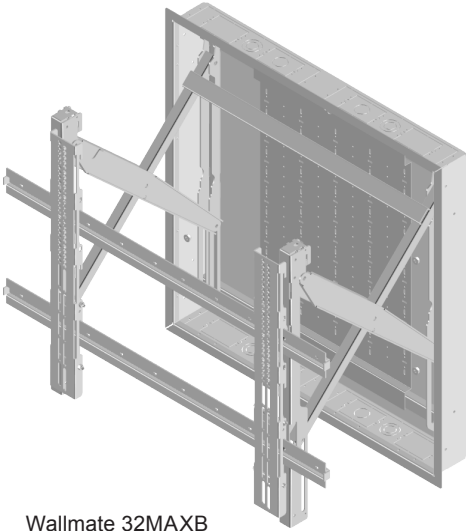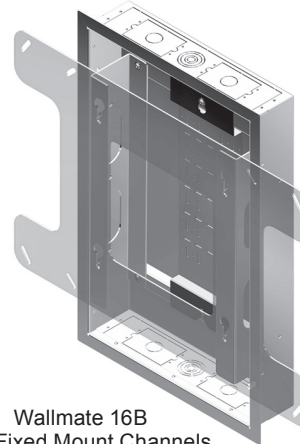

Wallmate 32MAXB
with X-Arms
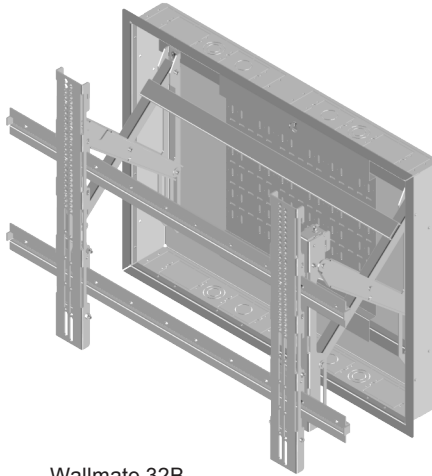
Wallmate 32B
with X-Arms

Wallmate 16B
with X-Arms

Wallmate 32B
with Fixed Mount Channels
and TNV Plate

Wallmate 16B
with Fixed Mount Channels
and TNV Plate

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9-14-21

TABLE OF CONTENTS

IMPORTANT: READ THIS MANUAL THOROUGHLY BEFORE BEGINNING INSTALLATION.

WEIGHT LIMITATIONS

Model	Weight Capacity
Wallmate 16B	125 lbs (57 kg)
Wallmate 32B	300 lbs (136 kg)
Wallmate 32MAXB	350 lbs (159 kg) typical
Wallmate 32MAXB	400 lbs (182 kg) version available upon request (XARM Model RPWM-32MAXB-XMHD)

REQUIRED TOOLS
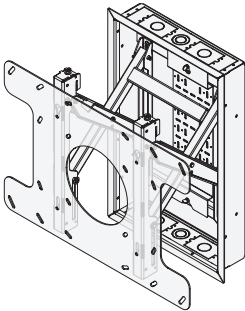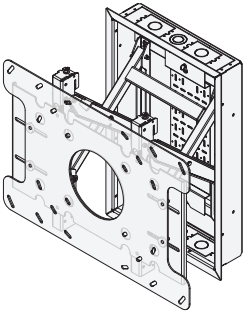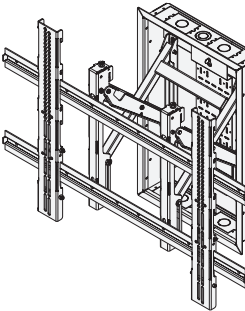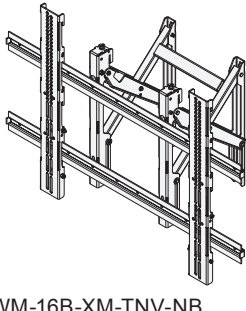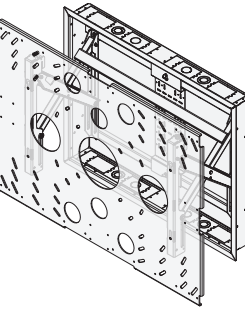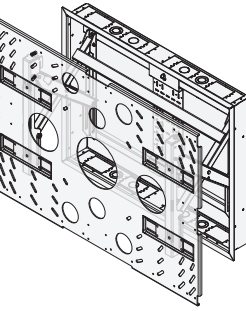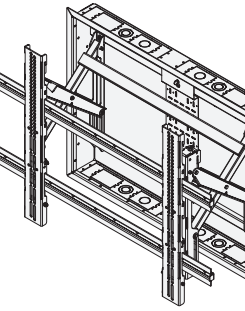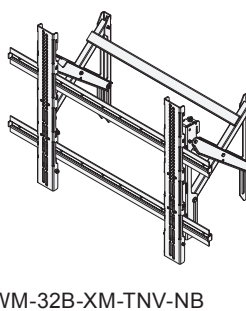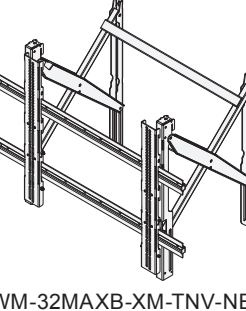
- 1/4" and 3/16" Allen Wrenches
- M6 and M8 Allen Wrenches
- Flat Head Screwdriver
- Phillips Head Screwdriver
- 1/2" Socket Wrench
- Level

NOTE: Wallmate 32B shown in examples. Wallmate 16B and 32MAXB have similar installation processes.

PARTS IDENTIFICATION

NOTE: Read these instructions carefully to identify the parts needed for your particular installation.

Wallmate Kits
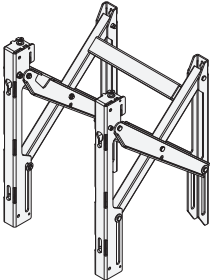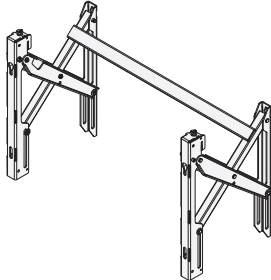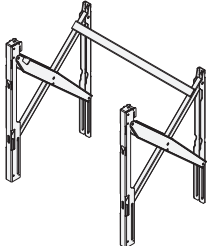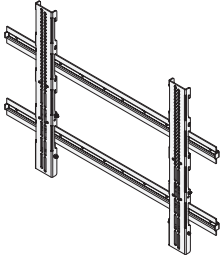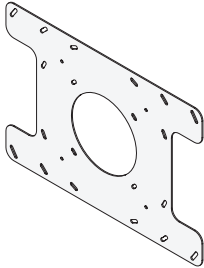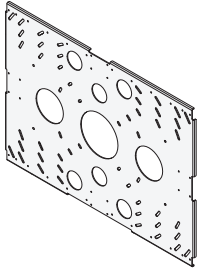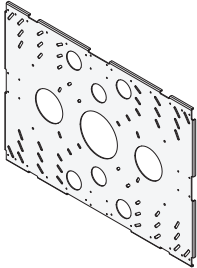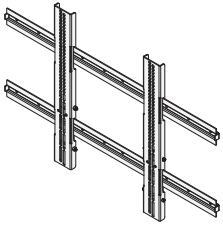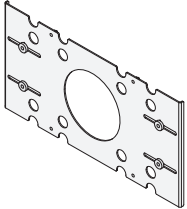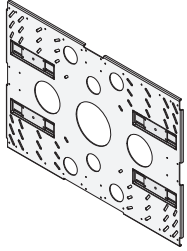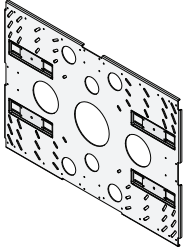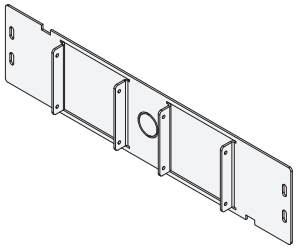
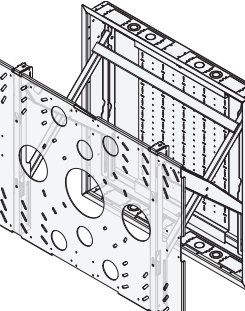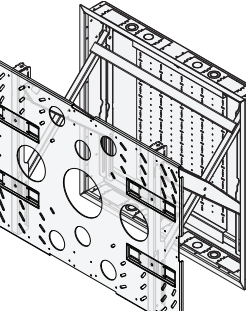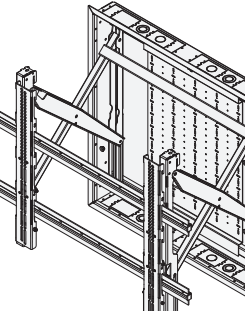| RPWM-16B-XM-TNV	RPWM-16B-XM-HSB	RPWM-16B-XM-UNV	No Back Box version
Thin X-Arm Wallmate 16B Kit	Thin X-Arm Wallmate 16B Kit	Thin X-Arm Wallmate 16B Kit	RPWM-16B-XM-TNV-NB RPWM-16B-XM-HSB-NB RPWM-16B-XM-UNV-NB (shown)
RPWM-32B-XM-TNV	RPWM-32B-XM-HSB	RPWM-32B-XM-UNV	No Back Box version
Thin X-Arm Wallmate 32B Kit	Thin X-Arm Wallmate 32B Kit	Thin X-Arm Wallmate 32B Kit	RPWM-32B-XM-TNV-NB RPWM-32B-XM-HSB-NB RPWM-32B-XM-UNV-NB (shown)
RPWM-32MAXB-XM-TNV	RPWM-32MAXB-XM-HSB	RPWM-32MAXB-XM-UNV	No Back Box version
Thin X-Arm Wallmate 32MAXB Kit	Thin X-Arm Wallmate 32MAXB Kit	Thin X-Arm Wallmate 32MAXB Kit	RPWM-32MAXB-XM-TNV-NB RPWM-32MAXB-XM-HSB-NB RPWM-32MAXB-XM-UNV-NB (shown)

* Parts made upon order with 4-6 weeks typical production time frame.

PARTS IDENTIFICATION (CONTINUED)

NOTE: Read these instructions carefully to identify the parts needed for your particular installation.
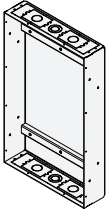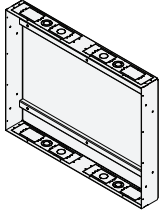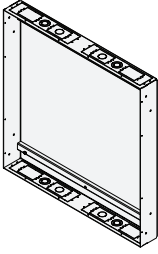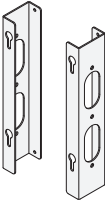
Wallmate Kits
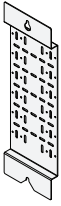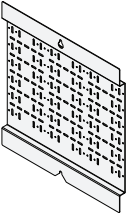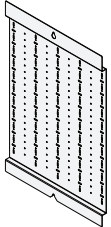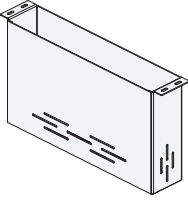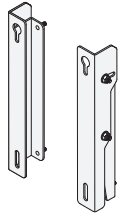
RPWM-16B-BOX	RPWM-32B-BOX	RPWM-32MAXB-BOX	RPWM-FM
Wallmate 16B Back Box	Wallmate 32B Back Box	Wallmate 32MAXB Back Box	Fixed Mount Channels for Wallmate 16B and 32B
RPWM-16B-XARM	RPWM-32B-XARM	RPWM-32MAXB-XARM RPWM-32MAXB-XARMHD	RPWM-UNV-64
X-Arms for Wallmate 16B	X-Arms for Wallmate 32B	X-Arms for Wallmate 32MAXB	Stock Universal Plate for Wallmate 16B, 32B, & 32MAXB
RPWM-16B-TNV	RPWM-32B-TNV	RPWM-32MAXB-TNV	RPWM-UNV-33
Stock Thin VESA Plate for Wallmate 16B	Stock Thin VESA Plate for Wallmate 32B	Stock Thin VESA Plate for Wallmate 32MAXB	Stock Universal Plate for Wallmate 16B, 32B, & 32MAXB
RPWM-16B-HSB*	RPWM-32B-HSB*	RPWM-32MAXB-HSB	RPWM-EUPWR
Custom Horizontal Shift VESA Plate for Wallmate 16B	Custom Horizontal Shift VESA Plate for Wallmate 32B	Stock Horizontal Shift VESA Plate for Wallmate 32MAXB	Wallmate UK Plate

NOTE: Custom TNV plates available for any display. (RPWM-16B-TNV-OFFSET, RPWM-32B-TNV-OFFSET, RPWM-32MAXB-TNV-OFFSET)
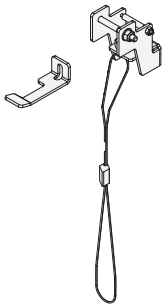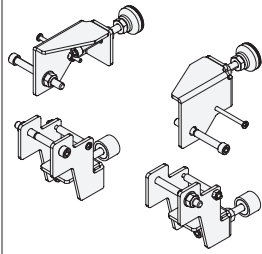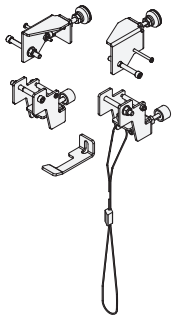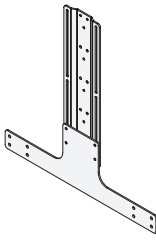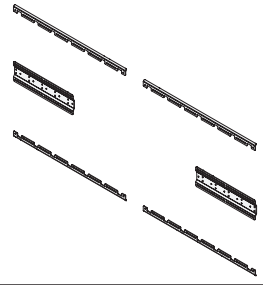
* Parts made upon order with 4-6 weeks typical production time frame.

WALLMATE ACCESSORIES

Wallmate Component Mounting Accessories
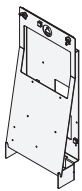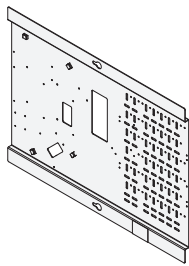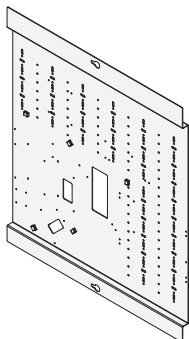
RPWM-16B-PM	RPWM-32B-PML	RPWM-32MAXB-PM	RPWM-AUXBOX	RPWM-TILT*
Peripheral Device Mounting Plate for Wallmate 16B and 32B	Optional Peripheral Device Mounting Plate for Wallmate 32B	Peripheral Device Mounting Plate for Wallmate 32MAXB	In-Wall Auxiliary Box	Optional 10-degree Tilt Arms. Combine with Fixed Mount Channels or X-Arms for Wallmate 16B, 32B and 32MAXB

Wallmate Component Accessories

RPWM-LOCK	RPWM-TOUCH	RPWM-TOUCH-LOCK	RPWM-UC-KCAM	RPWM-UC-SPK
			Mount to hold any camera/speaker available upon request.	

Wallmate/Creston Accessories

- Wallmate is the only display mounting system approved for Crestron FLEX Systems.

- Equipment installed on Wallmate PMFLX plates will maintain Crestron warranty as long as Crestron is informed of transfer. Consult your Crestron rep.

- Installation service to transfer FLEX equipment available from rp Visuals. Contact us for details: 714-390-8593.

- Refer to Answer ID 1000910 for installation information from Crestron: https://support.crestron.com/app/answers/detail/a_id/1000910

RPWM-16B-PMFLX	RPWM-32B-PMFLX	RPWM-32MAXB-PMFLX

* Parts made upon order with 4-6 weeks typical production time frame.

SPECIFICATIONS

Back Boxes shown with Peripheral Panels as shipped.

Wallmate 16B (View from Top)
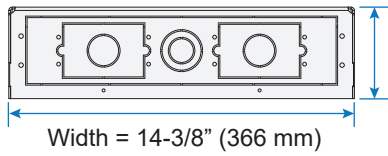
Depth = 3-13/16"
(97 mm)

Width = 14-3/8" (366 mm)

Wallmate 32B and Wallmate 32MAXB (View from Top)

Width = 30-3/8" (772 mm)
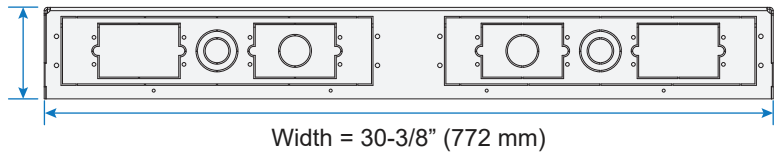
Wallmate 16B (View from Front)
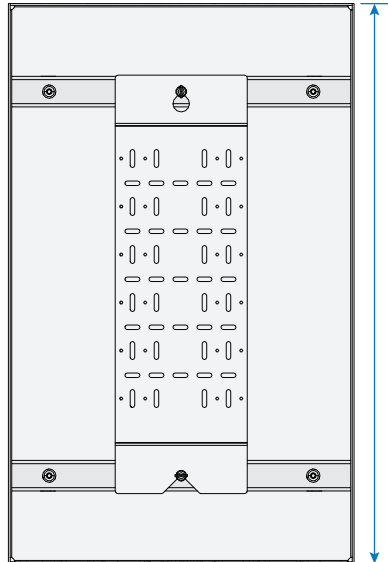
Height = 23-5/16"
(593 mm)

Wallmate 32B (View from Front)
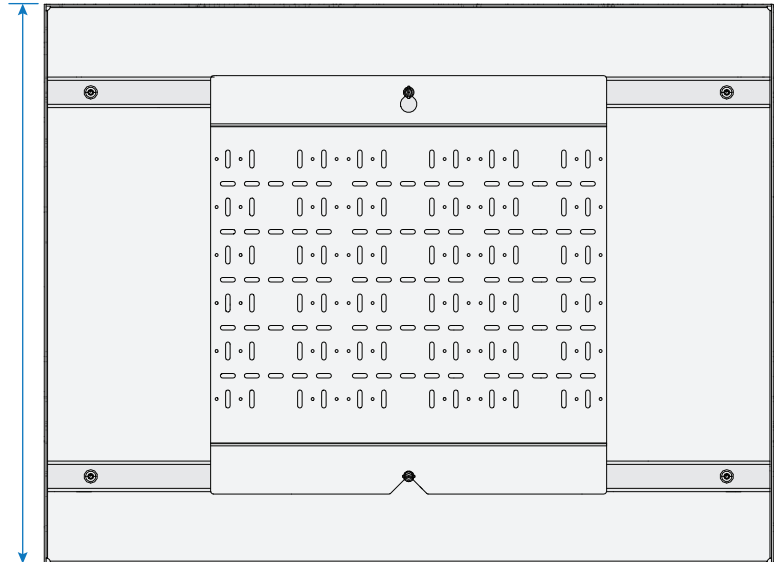
Wallmate 32MAXB (View from Front)
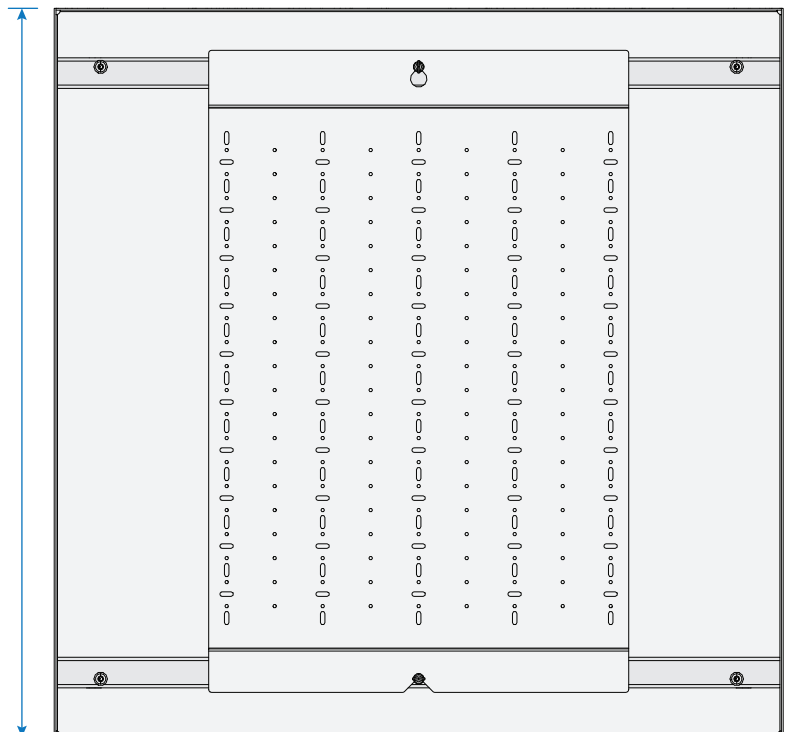
NOTE: Back Box is shipped with Peripheral Device Mounting Plate and Mounting Arm Fasteners installed. Standard configurations shown. Trim Bezel with fasteners packed in carton.

Height = 30-3/8"
(772 mm)

FRAMING PREPARATION

When framing, position all metal studs so that the closed side faces the rough opening.

IMPORTANT: Provide adequate structural support for system.

(1) Frame wall for installation.

IMPORTANT: Wallmate 16B fits in most standard framing to hold 125 lbs (57 kg). Wallmate 32B and 32MAXB require 14 gauge metal studs spaced 30-3/8" apart to hold 350 lbs (159 kg). Ensure your structure can support the weight.

(1) Typical Distance Between Studs = 16" (406 mm) On Center

Metal Stud

Metal Stud

Drywall Width

Wallmate 16B Width = 14-3/8" (366 mm)

(1) Typical Distance Between Studs = 32" (813 mm) On Center

14 Gauge Metal Stud

14 Gauge Metal Stud

Drywall Width

Wallmate 32B and Wallmate 32MAXB Width = 30-3/8" (772 mm)
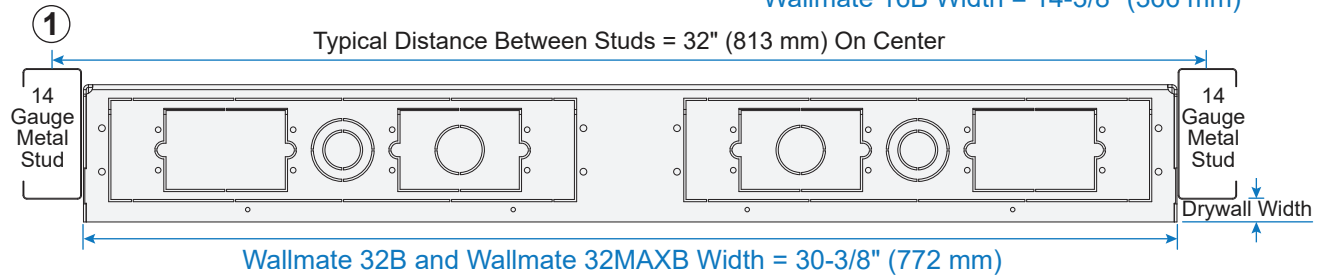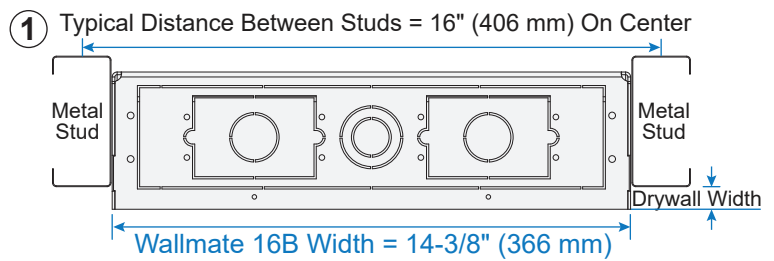
BACK BOX INSTALLATION

(2) Set Back Box between studs and shift forward to allow for wall thickness. Fasten to studs at sides.

IMPORTANT: Mount Back Box at factory drilled holes in sides with fasteners approved by structural engineer. Ensure fasteners enter stud. For wall finishes thicker than 3/4" (19 mm) such as acoustic panels, we offer optional channel spacers to mount to the front of the system.

IMPORTANT: Back Box must be mounted level and plumb.

(2) Metal Stud (Orient Closed Side to Box)

Mount with fasteners approved by Structural Engineer at factory drilled holes. Ensure fasteners are fully secured to studs.

(2)

Wall Finish Width 1/2" (31 mm) Drywall Shown

IMPORTANT: Ensure Back Box is mounted level and plumb.
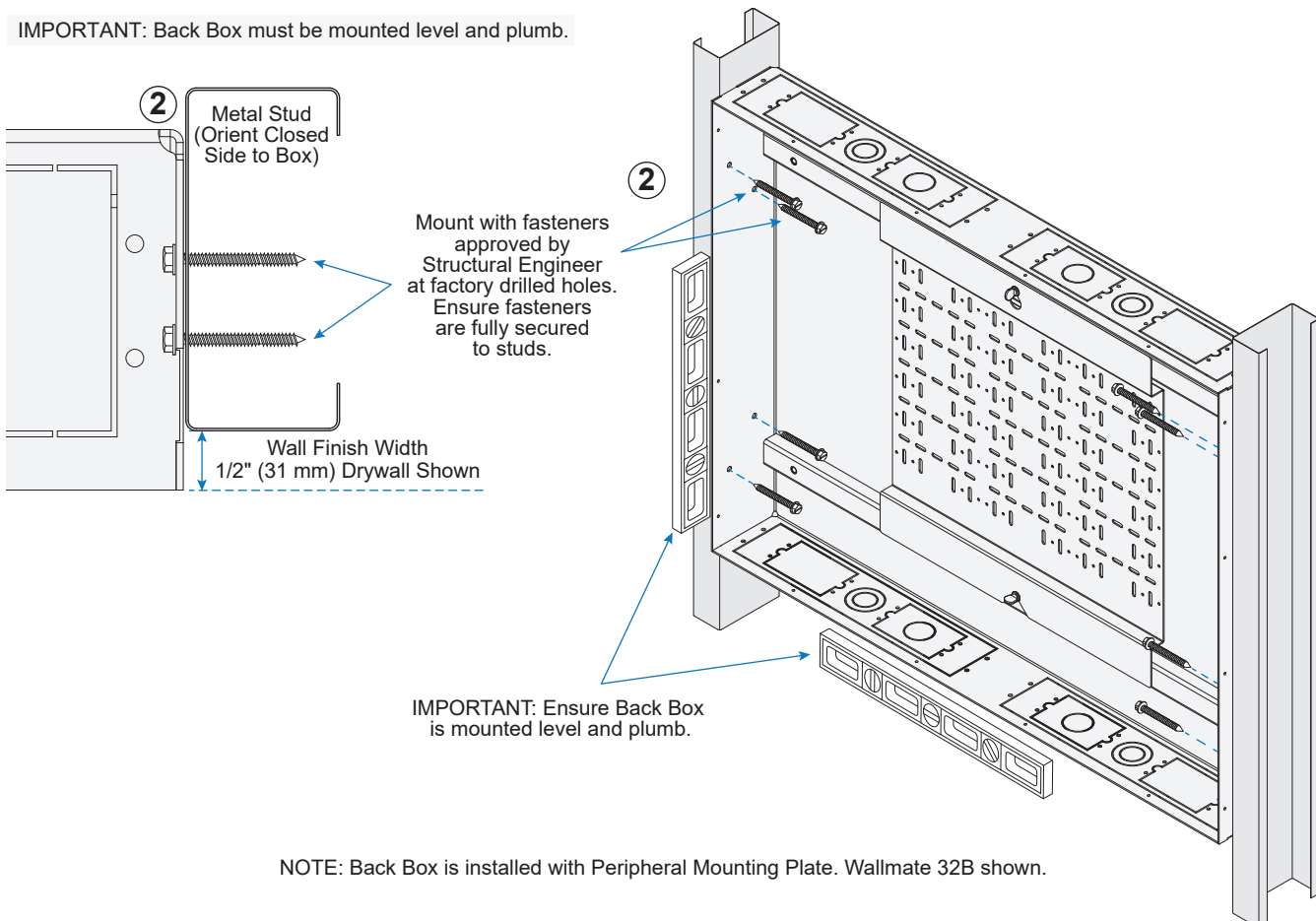
NOTE: Back Box is installed with Peripheral Mounting Plate. Wallmate 32B shown.

BACK BOX INSTALLATION (CONTINUED)
Prepare Back Box for Electrical Connections

The Back Box is designed with multiple knock out locations to allow easy installation of electrical boxes, conduits, or Auxiliary Boxes to store additional components. The same options are located on the top and bottom of each Back Box. Wallmate 32B and 32MAXB have twice the amount of knock outs as the Wallmate 16B.

Note: Only install the optional Auxiliary Box in the bottom. If installing the Auxiliary Box in the Wallmate 16B, place the electrical and conduits at top.

Multi Size Conduit Knock Out   Knock Out Rectangle for Auxiliary Box

Wallmate 16B

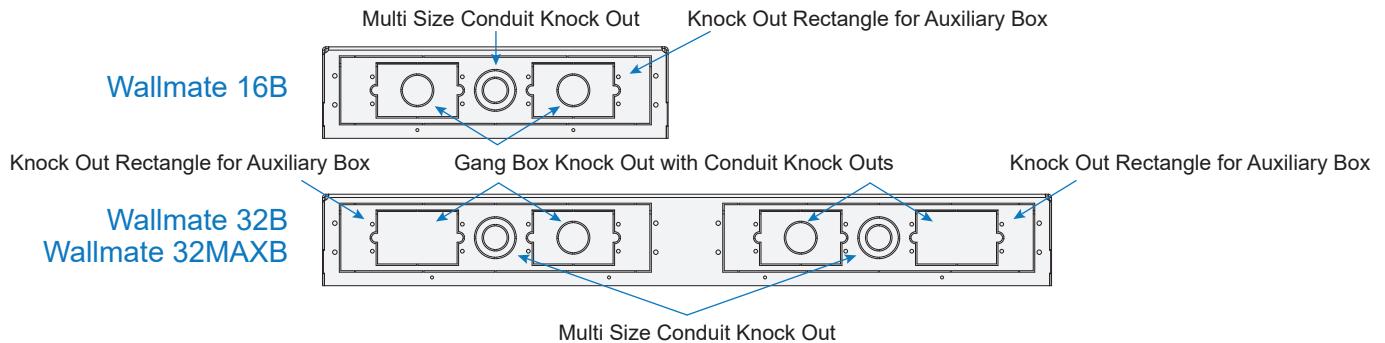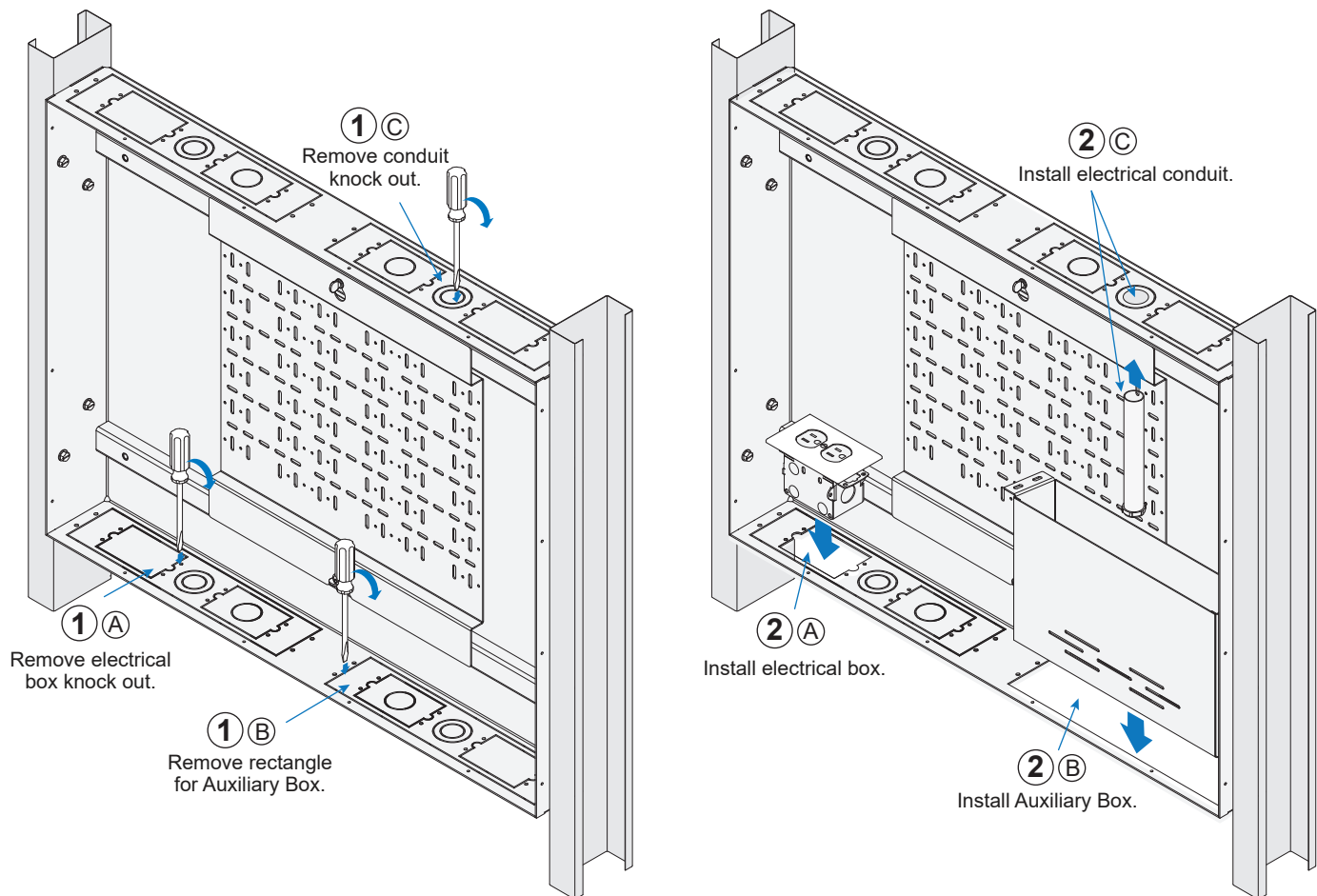Knock Out Rectangle for Auxiliary Box   Gang Box Knock Out with Conduit Knock Outs   Knock Out Rectangle for Auxiliary Box

Wallmate 32B
Wallmate 32MAXB

Multi Size Conduit Knock Out

1 Use a Flat Head Screwdriver to pop out desired knock outs.

2 Install components.

1 C Remove conduit knock out.

2 C Install electrical conduit.

1 A Remove electrical box knock out.

1 B Remove rectangle for Auxiliary Box.

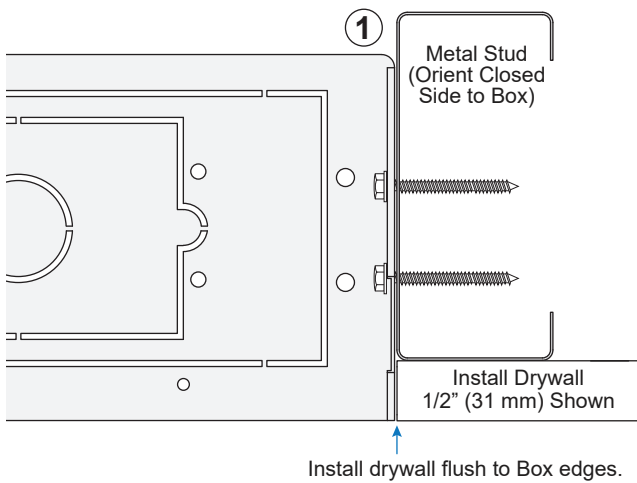2 A Install electrical box.

2 B Install Auxiliary Box.

NOTE: Wallmate 32B shown with example components.

BACK BOX INSTALLATION (CONTINUED)

Drywall Installation

(1) Install drywall flush to edges of Back Box.

1

Metal Stud
(Orient Closed
Side to Box)

Install Drywall
1/2" (31 mm) Shown

Install drywall flush to Box edges.

Trim Installation

(2) Install Trim Bezel with included screws.

2 **A**

2 **A**

Align holes and
install vertical Trim
with included
Philips Head Screws.

2 **B**

2 **B**

Align holes and
install horizontal Trim
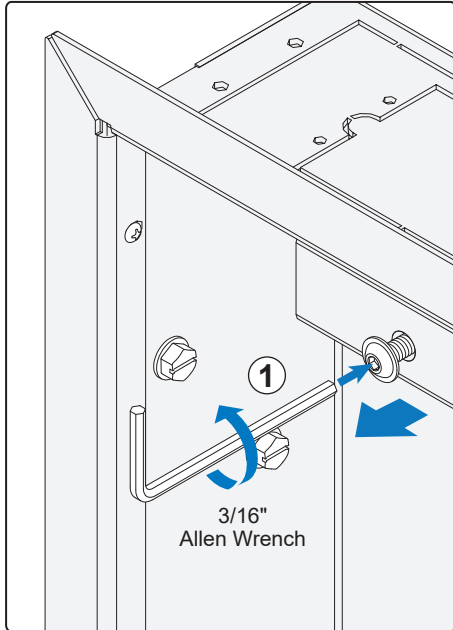with included
Philips Head Screws.
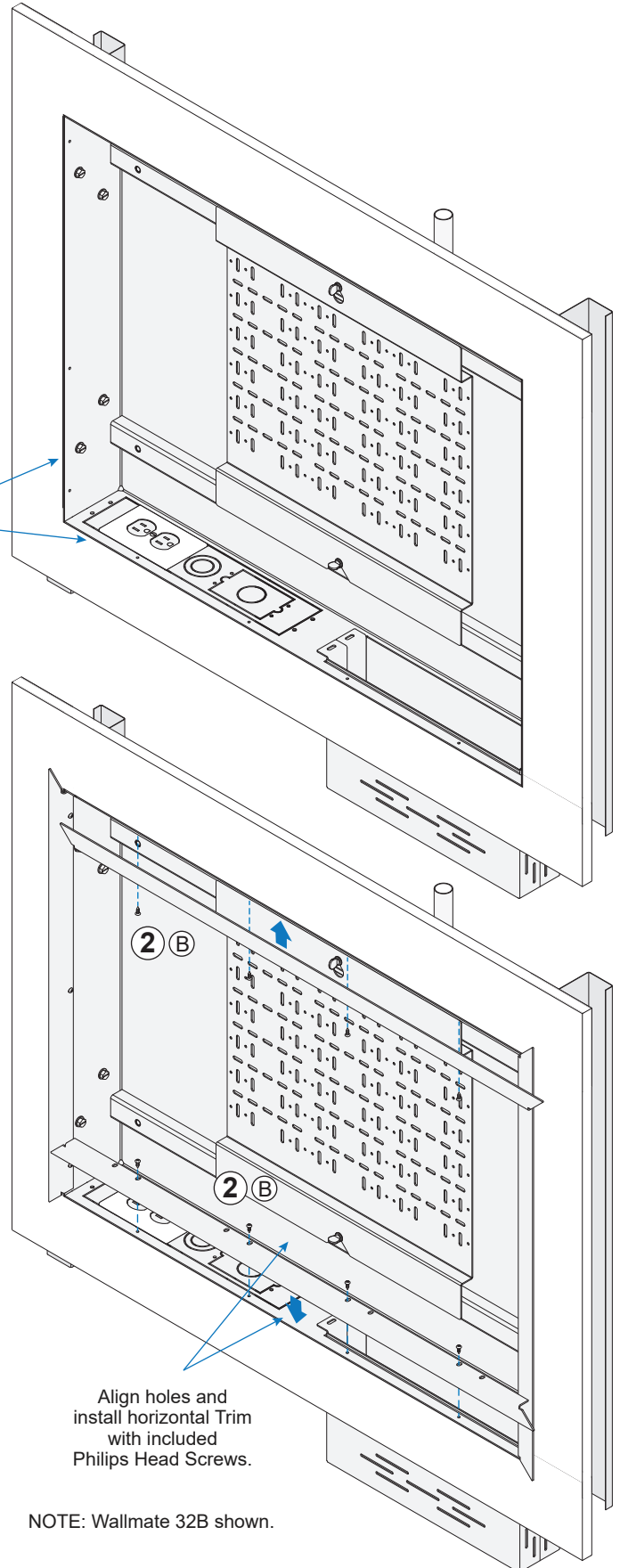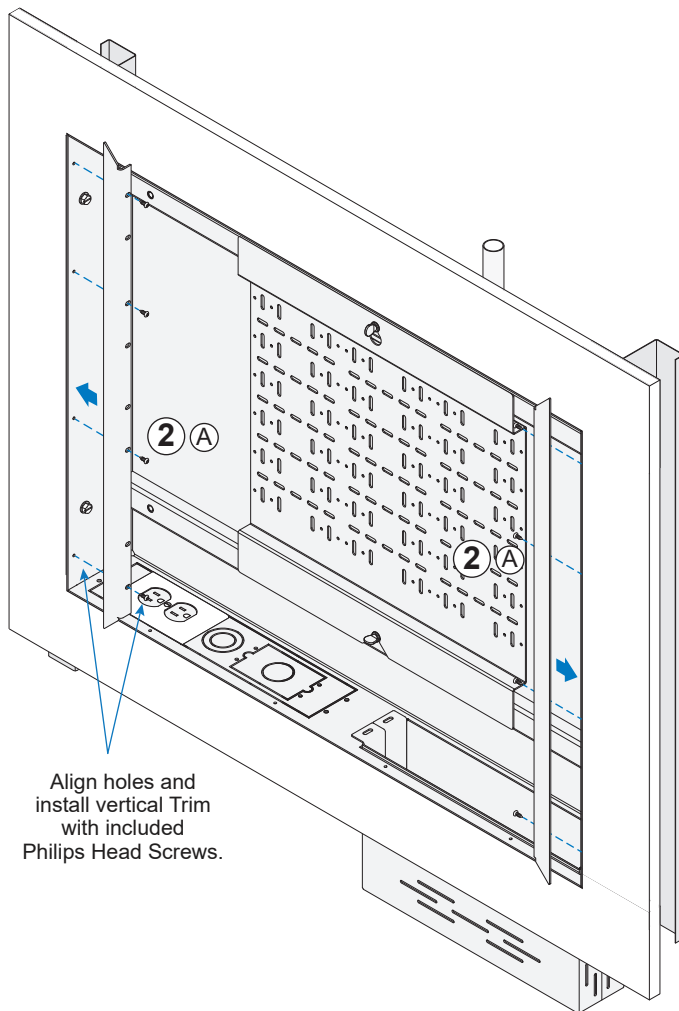
NOTE: Wallmate 32B shown.

MOUNTING ARM INSTALLATION
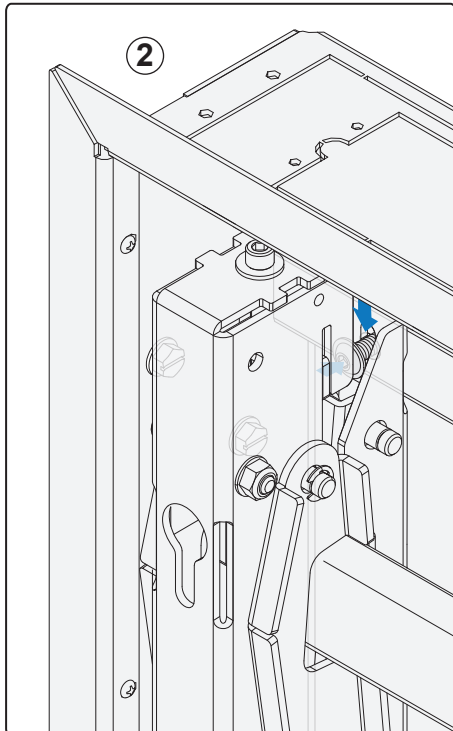## Install X-Arms

(1) Loosen top and bottom screws no more than 0.25" outward to install the X-Arm mount.
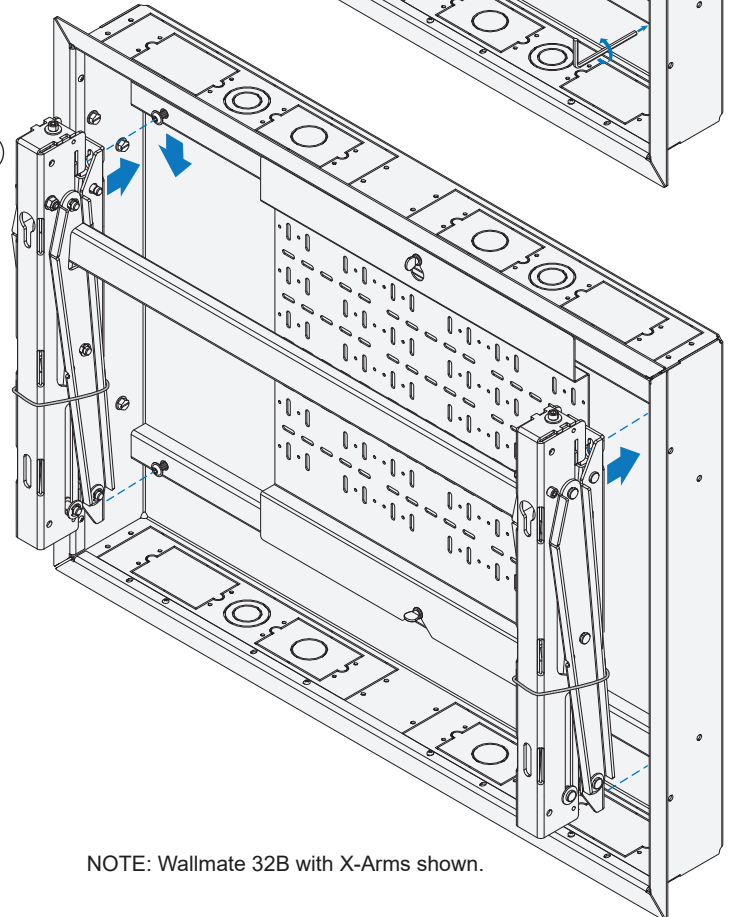

3/16"
Allen Wrench

(2) Drop and hang X-Arm temporarily on loose bolts with X-Arm closed.
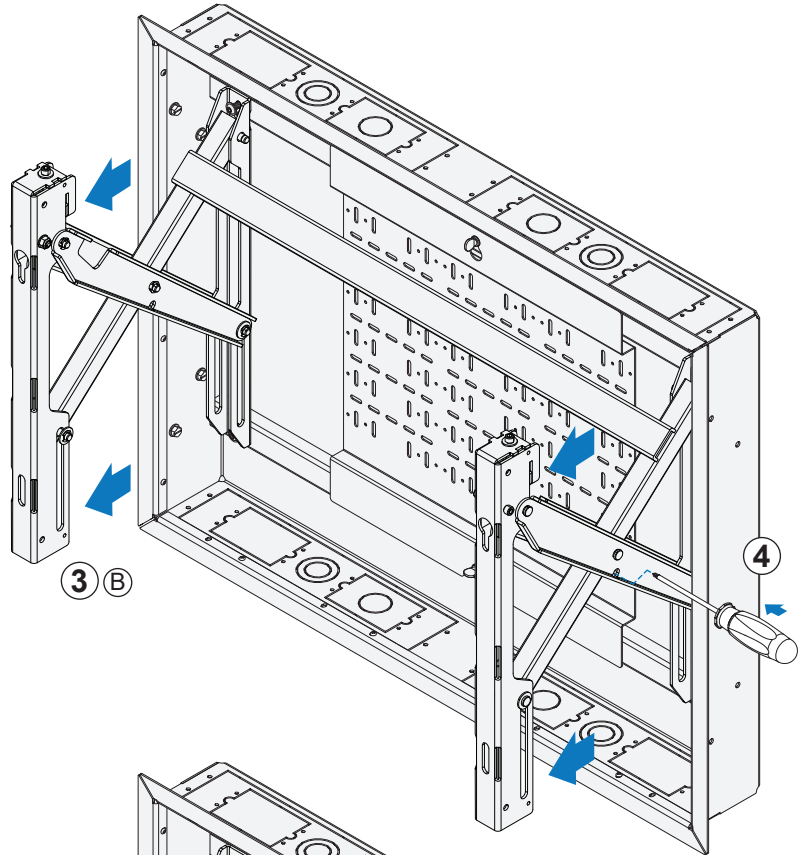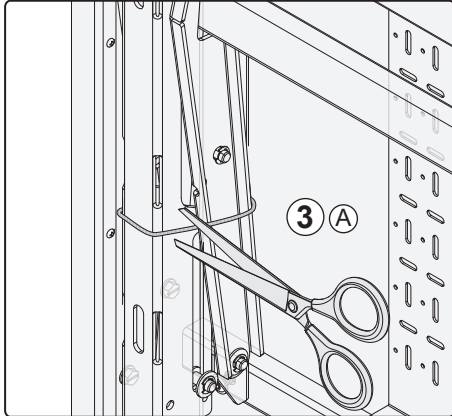

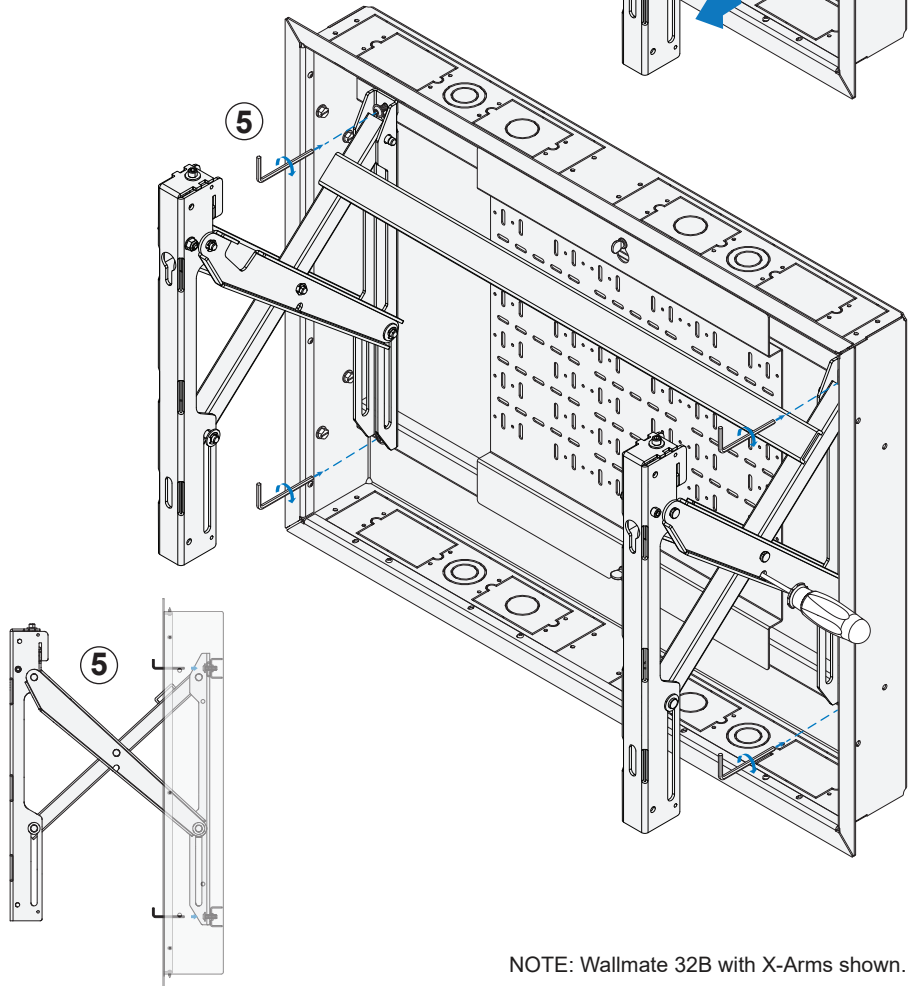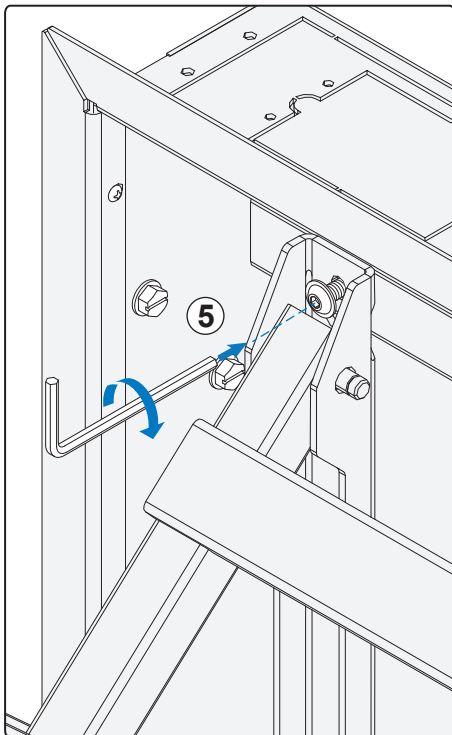NOTE: Wallmate 32B with X-Arms shown.

MOUNTING ARM INSTALLATION (CONTINUED)
Install X-Arms (Continued)

3 Once the X-Arm is hanging in box, cut zip tie holding X-Arm closed and extend it open.

4 Use a screwdriver to lock X-Arm in the open (service) position.

3 Ⓐ

3 Ⓑ

4

5 Tighten all bolts in the box to no less than 9 lbs-ft. and to a Max torque of 12 lbs-ft.

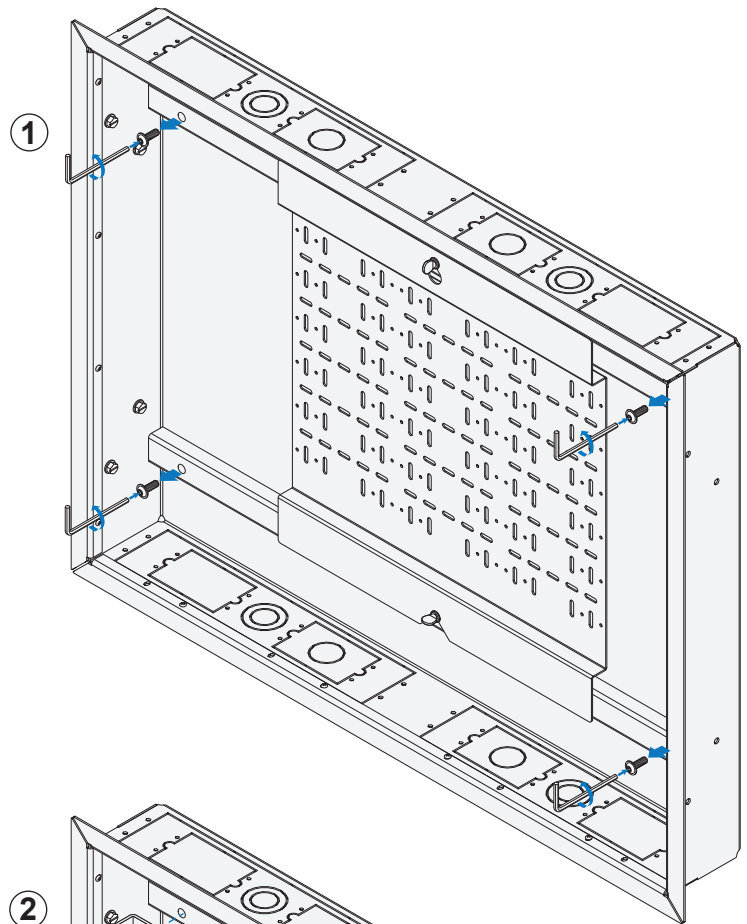**6** Remove screwdriver to operate X-Arm system.
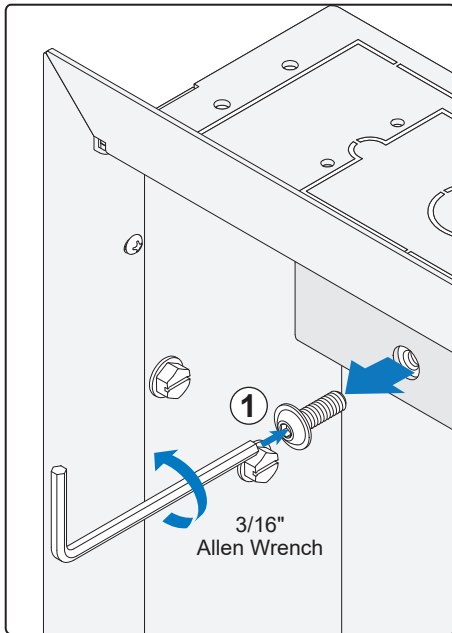
5

5

5

5

NOTE: Wallmate 32B with X-Arms shown.
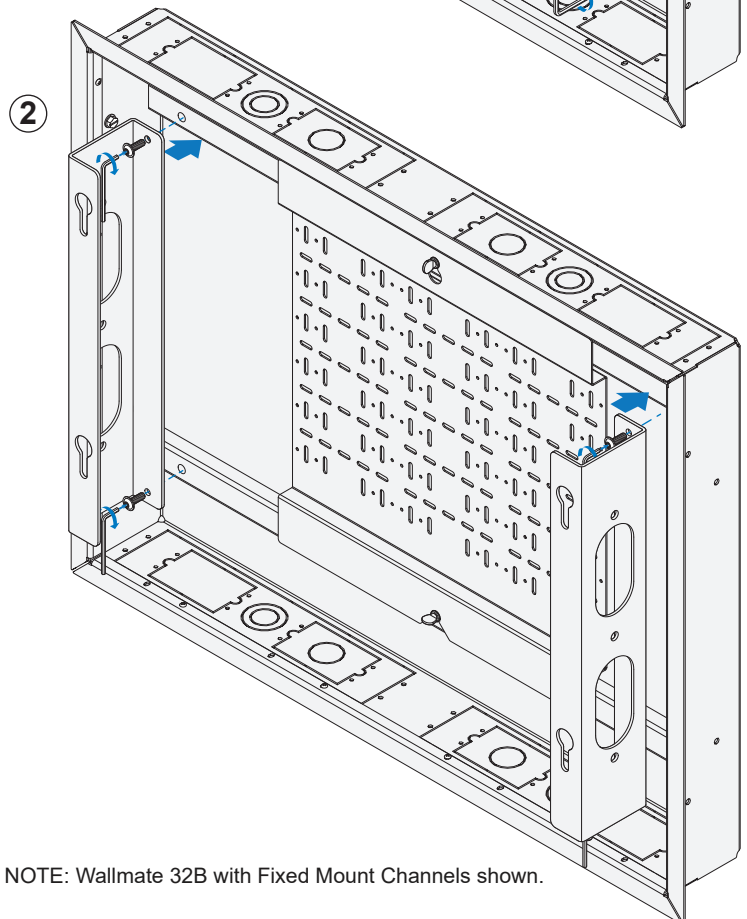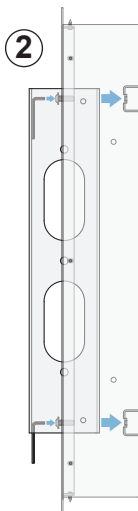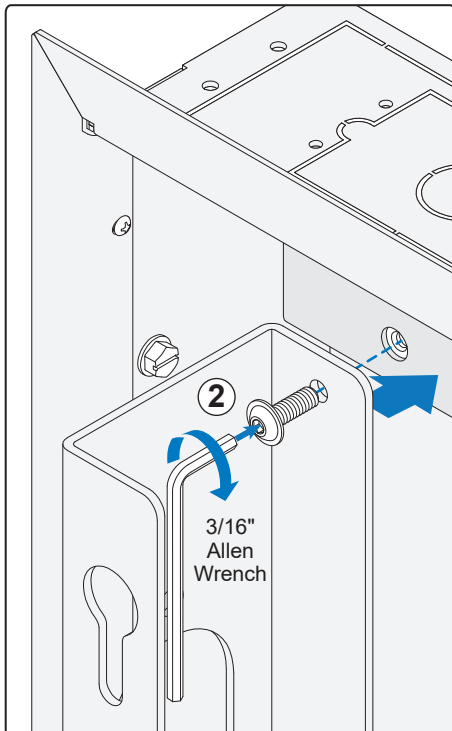
MOUNTING ARM INSTALLATION (CONTINUED)
Install Fixed Mount Channels

Note: Fixed Mount Channels not available for Wallmate 32MAXB.

1 Remove four screws from Back Box to install mounting channels.

1

3/16"
Allen Wrench

1

2 Mount Fixed Mount Channels.

2

3/16"
Allen Wrench

2

NOTE: Wallmate 32B with Fixed Mount Channels shown.
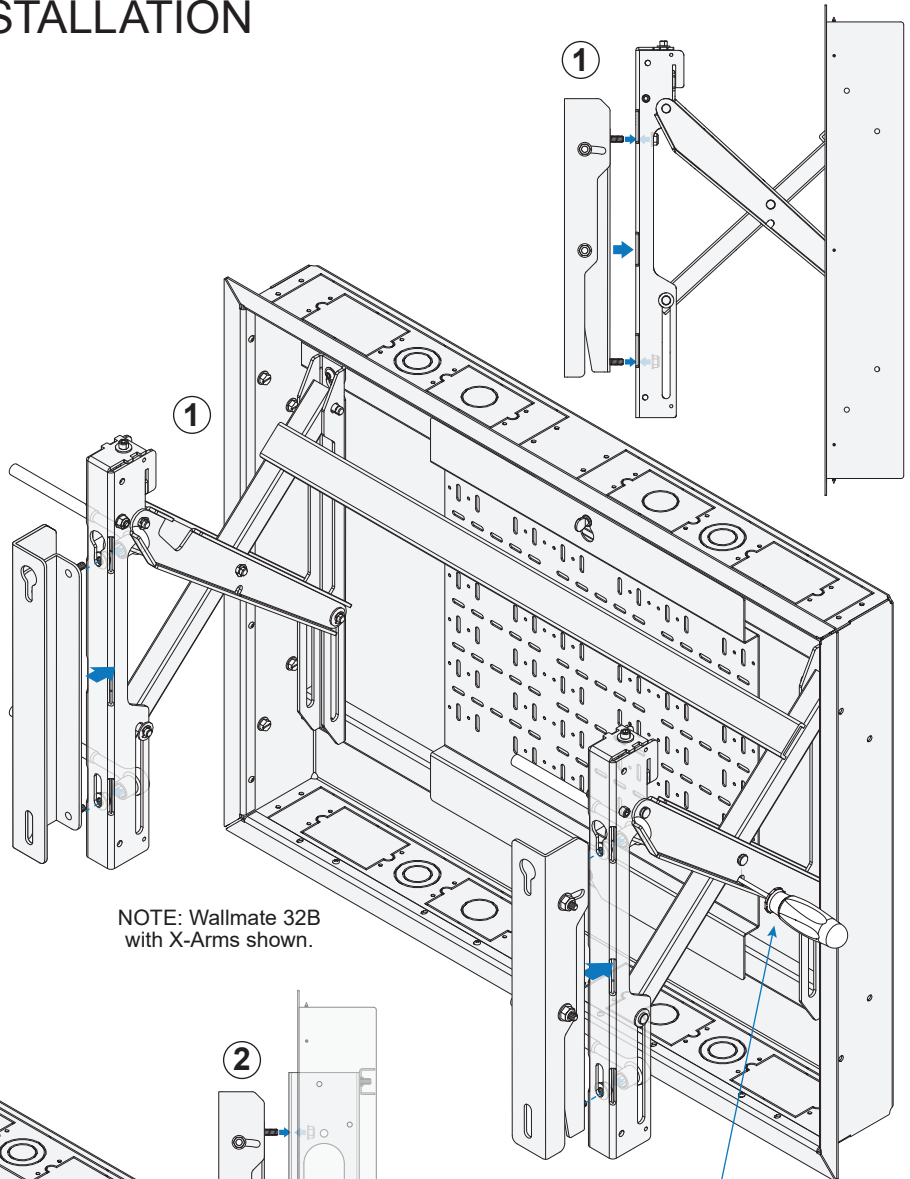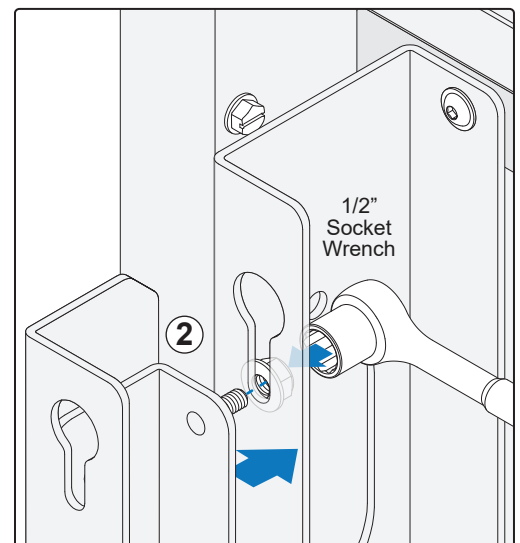
OPTIONAL TILT ARM INSTALLATION
Mount to X-Arms

1

1/2"
Socket
Wrench

Mount to Fixed Mount Channels

2

NOTE: Wallmate 32B
with X-Arms shown.

1

2

2

Note: Use a screwdriver to lock X-Arm
in the open (service) position.

1/2"
Socket
Wrench

2

NOTE: Wallmate 32B with
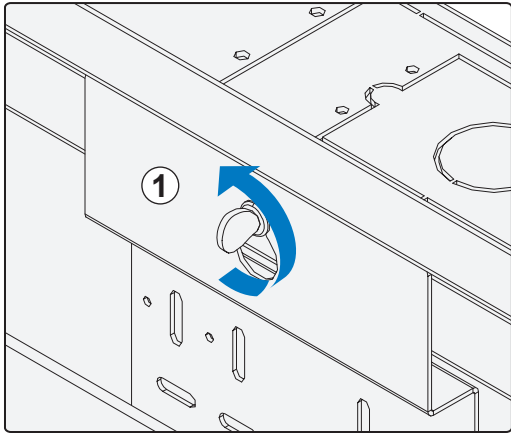Fixed Mount Channels shown.
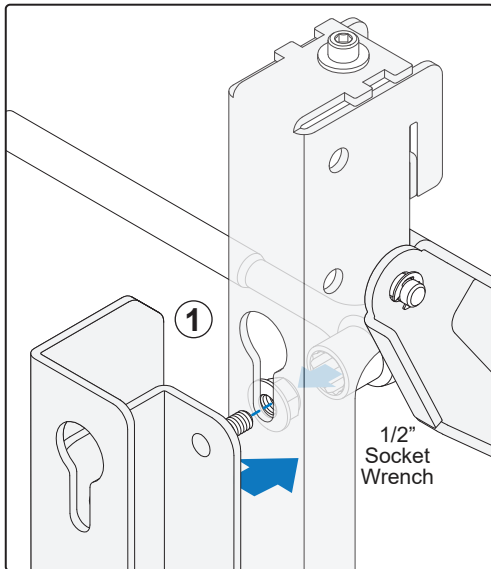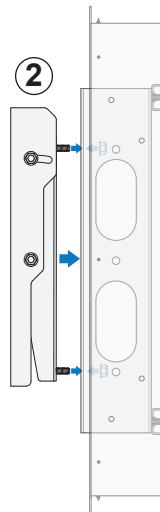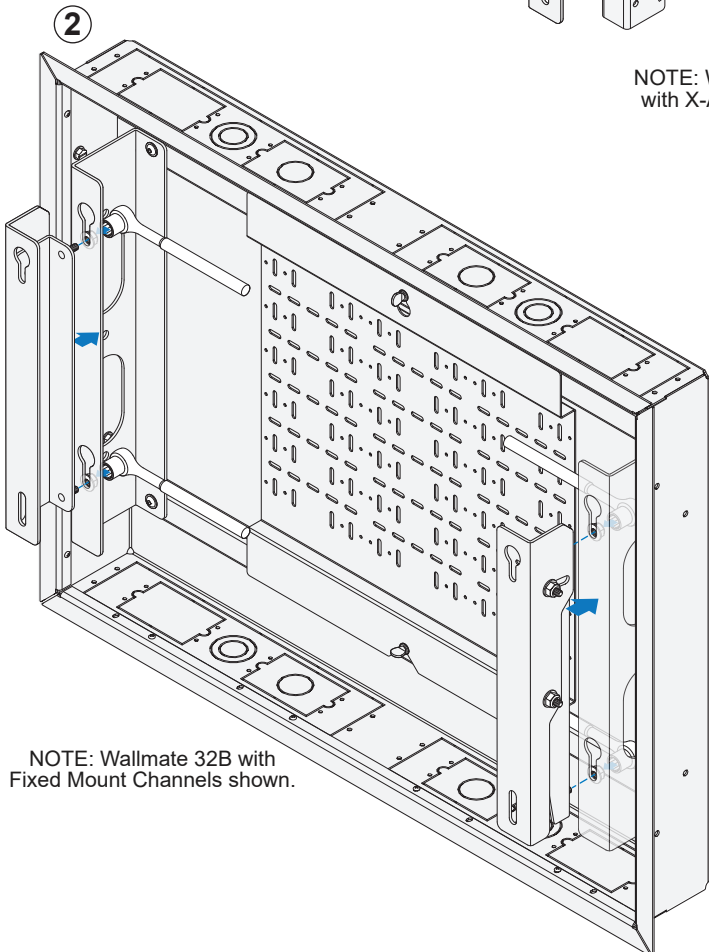
ACCESSORY COMPONENT INSTALLATION
Mount to Peripheral Plate

NOTE: If space for additional components is required, replace standard Peripheral Plate with RPWM-32B-PM Peripheral Plate or install RPWM-TRAY Auxiliary Box into the bottom of Back Box. Standard Peripheral Plate included with Wallmate 16B and 32B shown.

1 Loosen screws holding Peripheral Plate in place.

2 Lift Plate up and out of Back Box.

NOTE: Wallmate 32B with X-Arms shown.
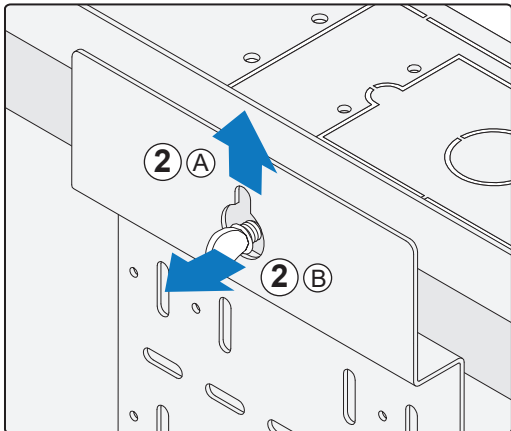
3 Install components.

Note: Components typically attached to Peripheral Plate with Zip Ties. Ensure they clear X-Arm in closed position or face of Fixed Mount Channel.

4 Hang Plate and tighten screws.

ACCESSORY COMPONENT INSTALLATION
Install Lock

(1) Install Catch Bracket on bottom right side of X-Arm. Use existing 3/4" (19 mm) screw.

(2) Install Lock Bracket using included 2-1/4" (57 mm) cap screw.

(3) Install included 2" (51 mm) screw through Lock Bracket, with spacer.

(4) Tighten top and bottom nuts.

(5) Pull cord to release X-Arm.
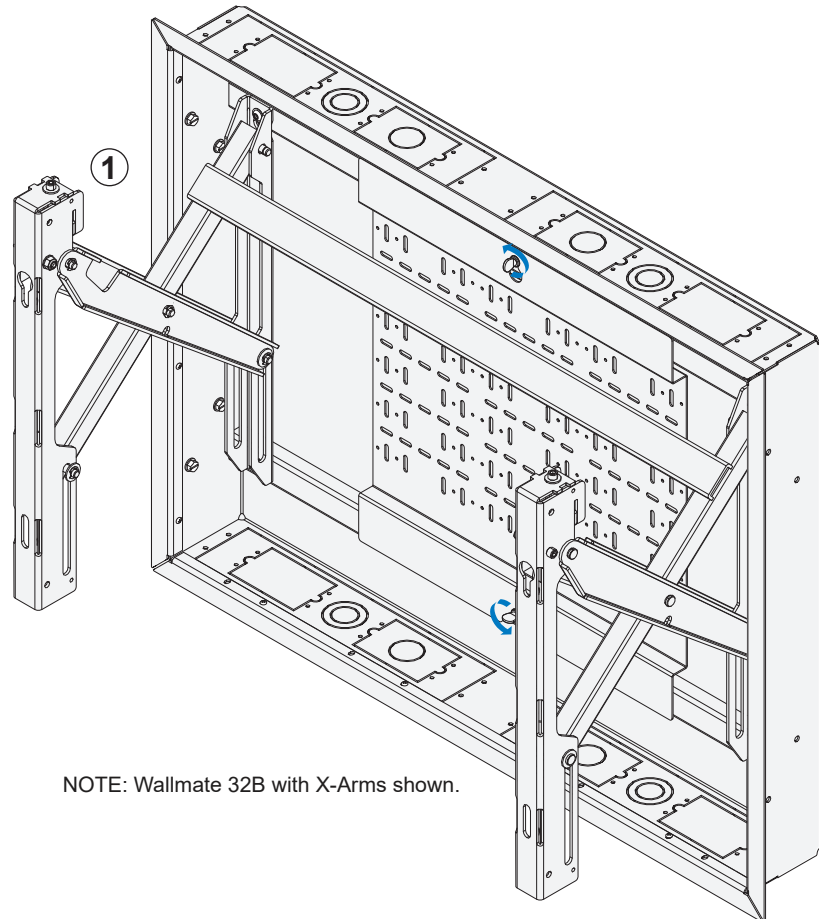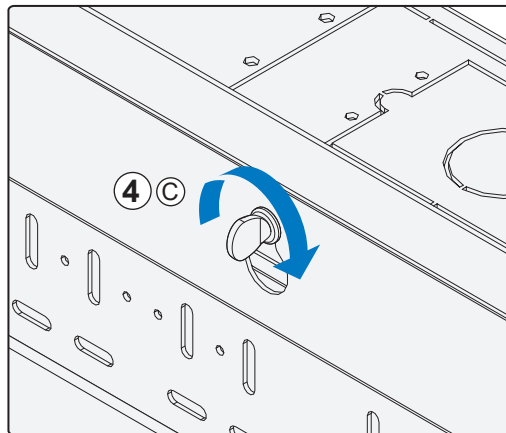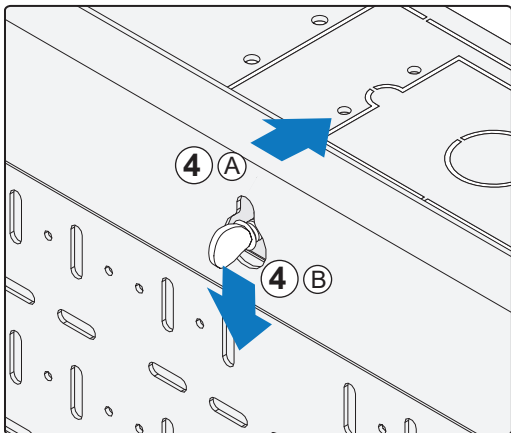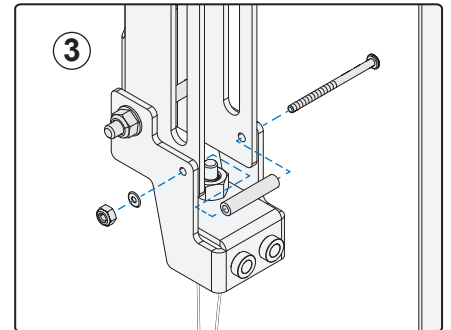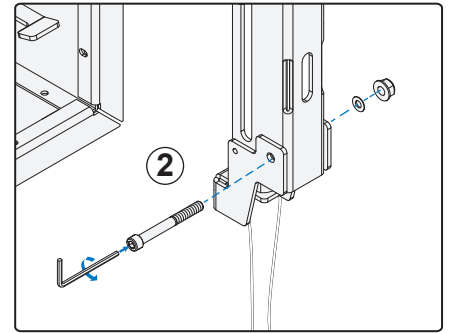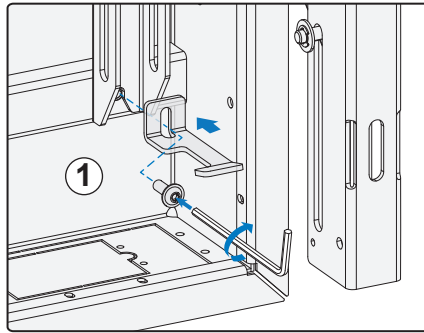
NOTE: Wallmate 32B with X-Arms shown.

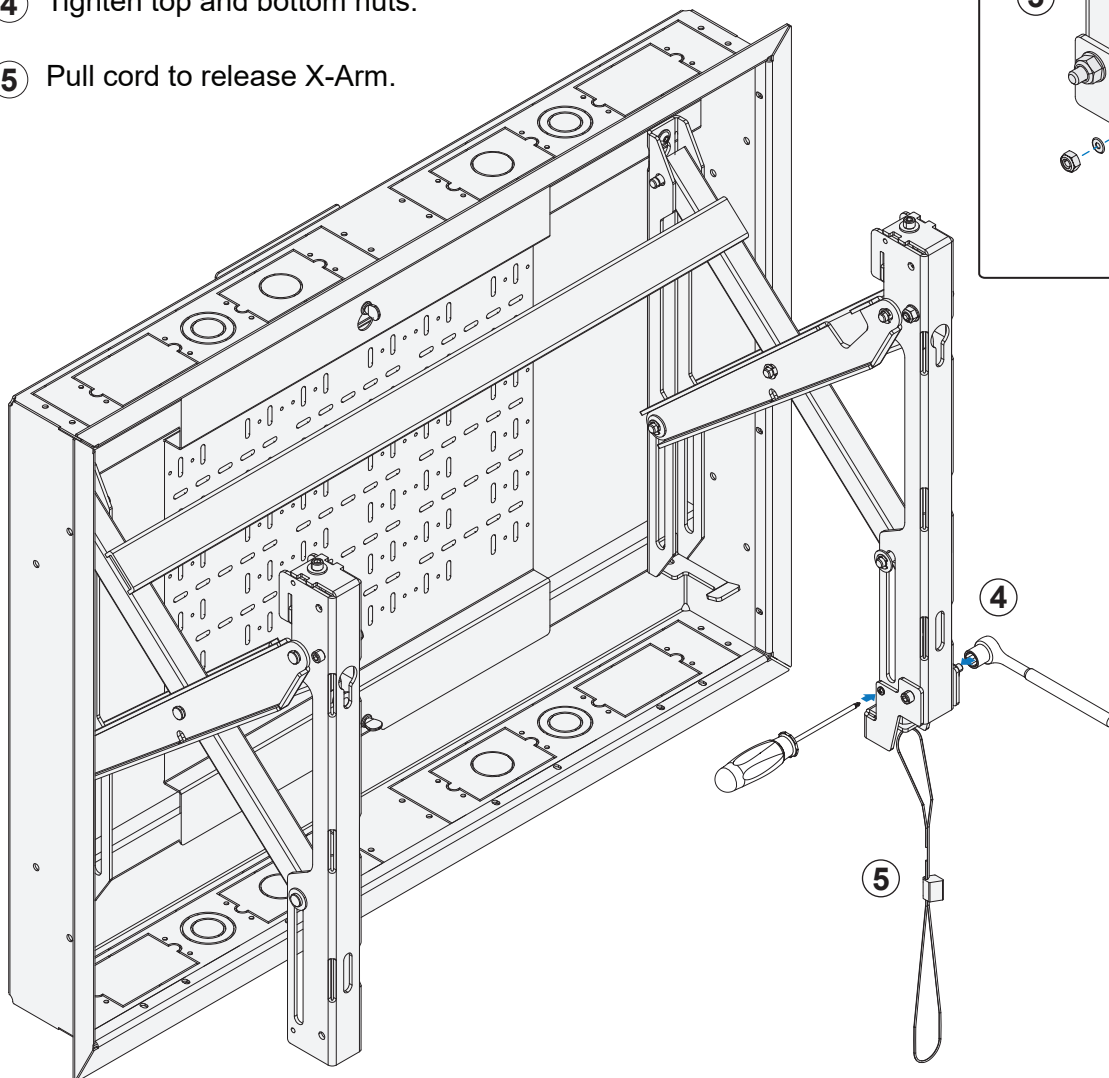# ACCESSORY COMPONENT INSTALLATION
Install Touch Kit and/or Touch/Lock Kit

1 Assemble magnetic head to the upper bracket as shown. Assemble rubber bumper to the lower bracket as shown.

2 Install top Touch Brackets using included 2-1/4" (57 mm) cap screws and 2" (51 mm) screws.

3 Install bottom Touch Brackets using included 2-1/4" (57 mm) cap screws.

4 Install included 2" (51 mm) screw through Touch Bracket, with spacer.

5 Tighten top and bottom nuts.

6 Pull cord to release X-Arm.

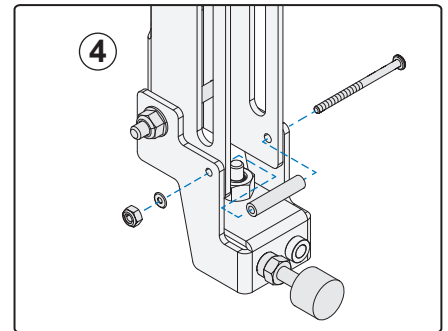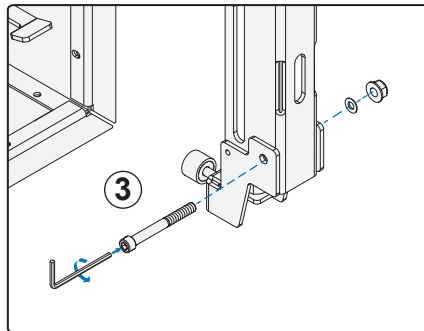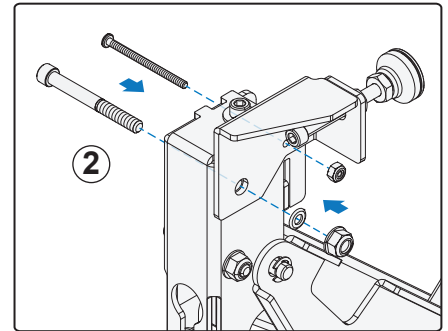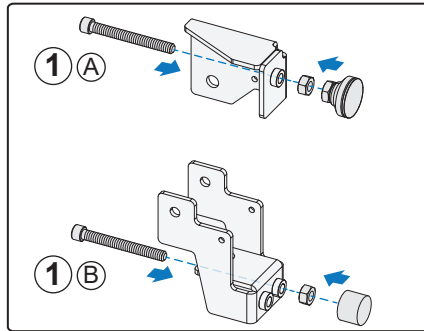NOTE: Touch and Lock Kit can be assembled together. See page 14 for Lock Kit installation.
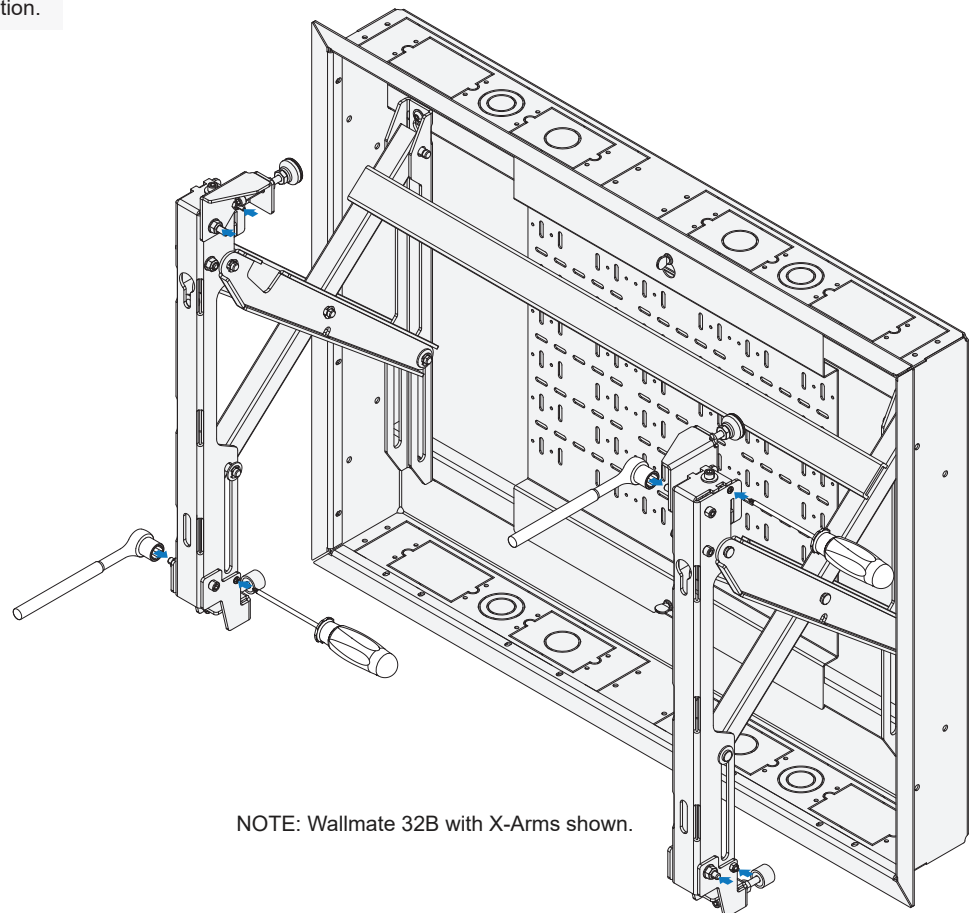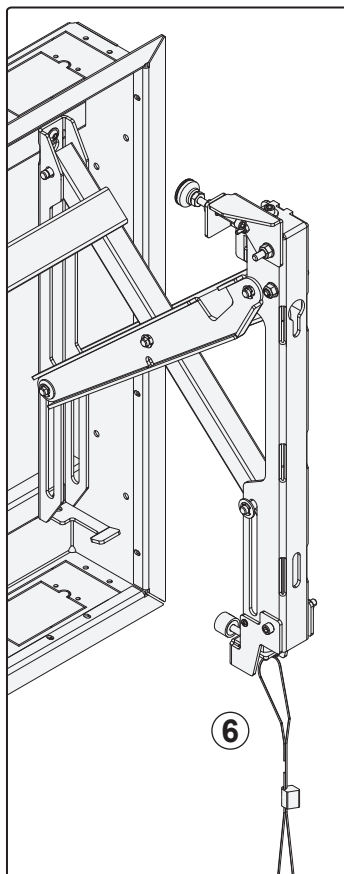
NOTE: Wallmate 32B with X-Arms shown.

DISPLAY INSTALLATION
Mount to Thin VESA Plate

Note: All Thin VESA Plates and Horizontal Shift VESA Plates with available in Portrait Orientation.

(1) Fasten Thin VESA Plate to back of display.

IMPORTANT: Ensure Thin VESA Plate is level to display.

Display

VESA

M6

OR

M8

Note: M6 and M8 mounting fasteners included. Use washer with M6 screws.

Washer

M6 x 16 Screws

OR

M8 x 16 Screws

IMPORTANT: Fasteners provided fit most displays. Test fasteners to ensure they are correct size and length. Longer screws may damage display.
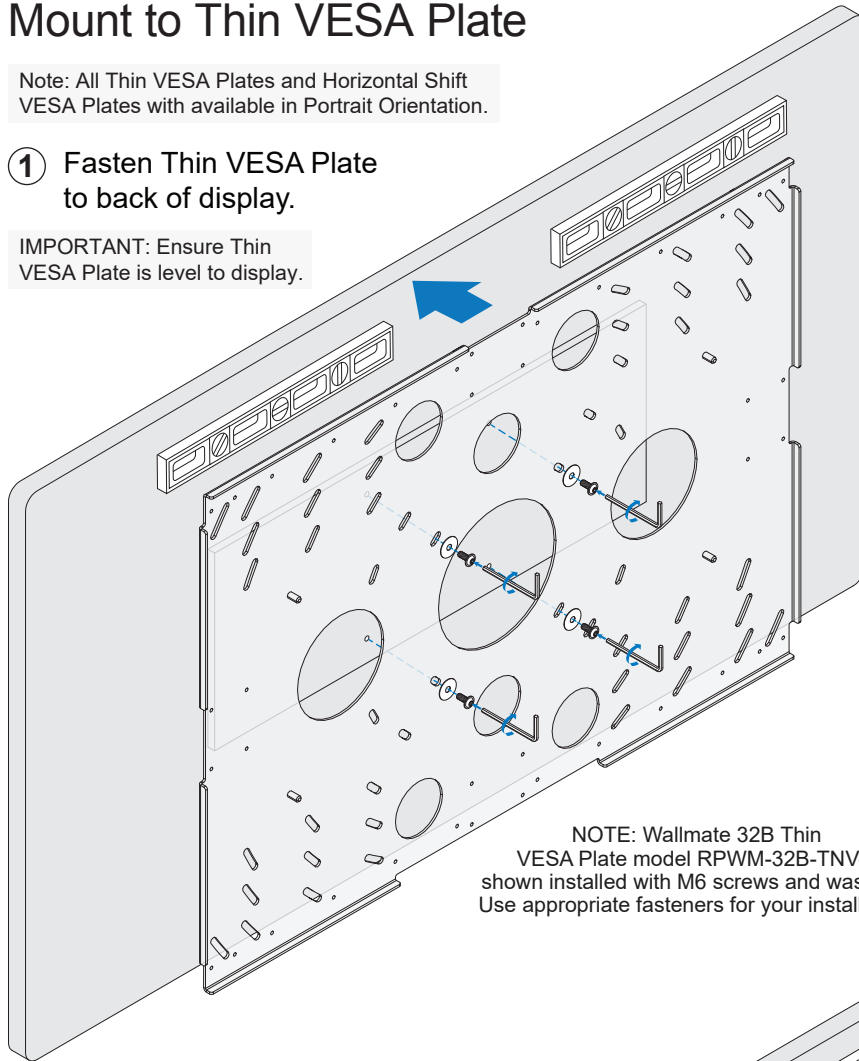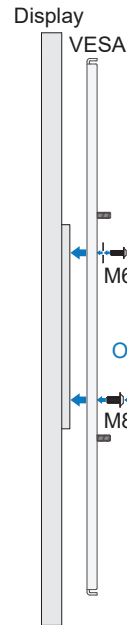
NOTE: Wallmate 32B Thin VESA Plate model RPWM-32B-TNV-L shown installed with M6 screws and washers. Use appropriate fasteners for your installation.

Mount to Horizontal Shift VESA Plate

NOTE: Horizontal Shift VESA Plate is optional with Wallmate 16B and 32B and standard with Wallmate 32MAXB. Shift is +/- 2".

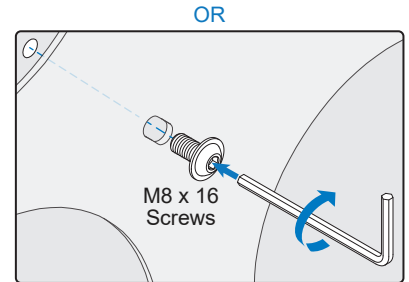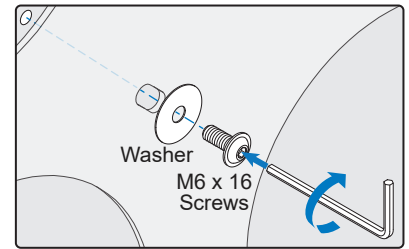**(2)** Fasten Horizontal Shift VESA Plate to back of display.

IMPORTANT: Ensure Horizontal Shift VESA Plate is level to display.
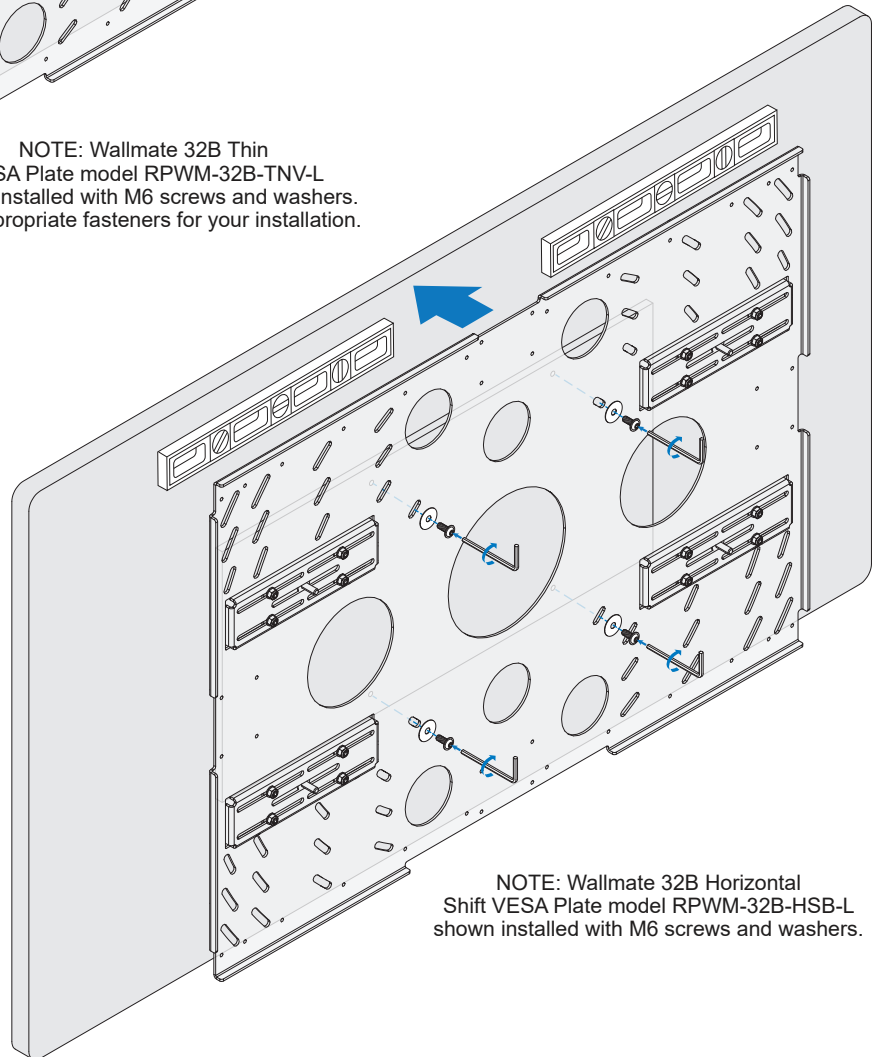
NOTE: Wallmate 32B Horizontal Shift VESA Plate model RPWM-32B-HSB-L shown installed with M6 screws and washers.

DISPLAY INSTALLATION (CONTINUED)
Install VESA Plate to X-Arms

(1) Install included Nyloc Nuts on top VESA plate studs leaving 1/4" (6 mm) gap.

NOTE: For Wallmate 32MAXB, install nuts on top and bottom studs. 32MAXB X-Arms have keyholes on top and bottom.

(2) Hang VESA on X-Arms and install bottom nuts.
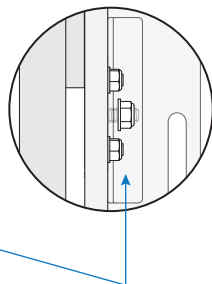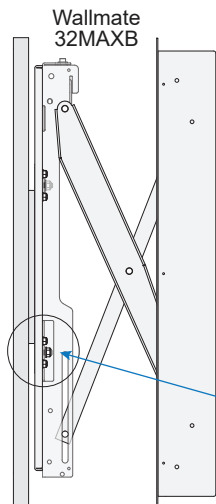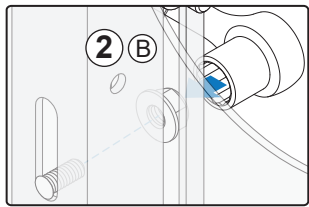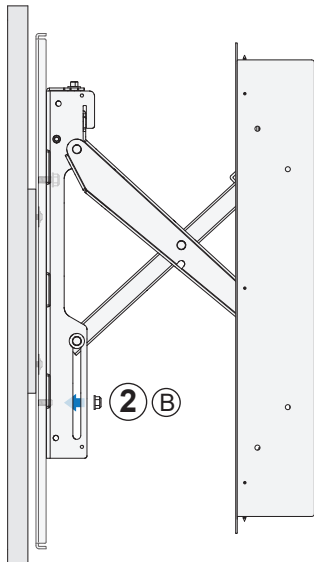
IMPORTANT: VESA plate with display can weigh up to 350 lbs (159 kg). Ensure proper support when installing.

(3) Tighten top and bottom nuts.

Display
VESA

(1)(A)

(1)(A) 1/2"
Socket Wrench

(1)(B) Leave 1/4" (6 mm) Gap

(2)(A)

(2)(A)

(2)(B)

(2)(B)

(3)

(3)

(3)

Wallmate 32MAXB

NOTE: Wallmate 32B with Thin VESA mounted to X-Arms shown. Horizontal Shift VESA Plate installation similar.

NOTE: Wallmate 32MAXB has keyhole mount at top and bottom X-Arm. Install nuts to all studs, hang VESA and tighten nuts. Fit wrench through side cut-out at bottom hole.
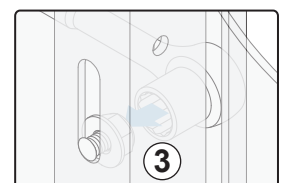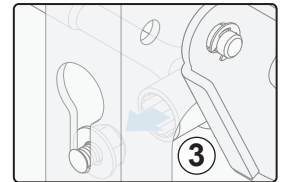
DISPLAY INSTALLATION (CONTINUED)
Install VESA Plate to Fixed Mount Channels

NOTE: Fixed Mount metal is 0.1" thick. Leave 1/8" (0.125") Gap for mounting. Check consistent dimensions stated.

Display
VESA

1 Install included Nyloc Nuts on VESA plate leaving 1/8" (3 mm) gap.

IMPORTANT: VESA plate with display can weigh up to 350 lbs (159 kg). Ensure proper support when installing.
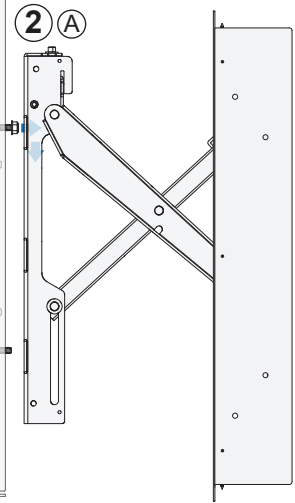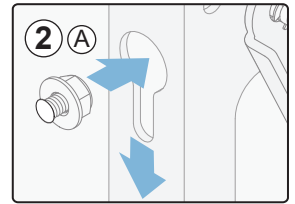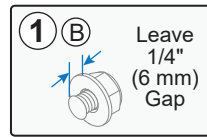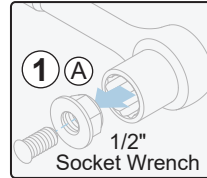
2 Hang VESA on Fixed Mount Channels.

1 (A) 1/2" Socket Wrench

1 (B) Leave 1/8" (3 mm) Gap

1 (A)

1 (B) 1/4" (3 mm) Gap

1 (A)

2

2

NOTE: Wallmate 32B with Thin VESA mounted to Fixed Mount Channels shown.

2 (A)

2 (B)

← NOTE: Horizontal Shift VESA Plate installation similar.
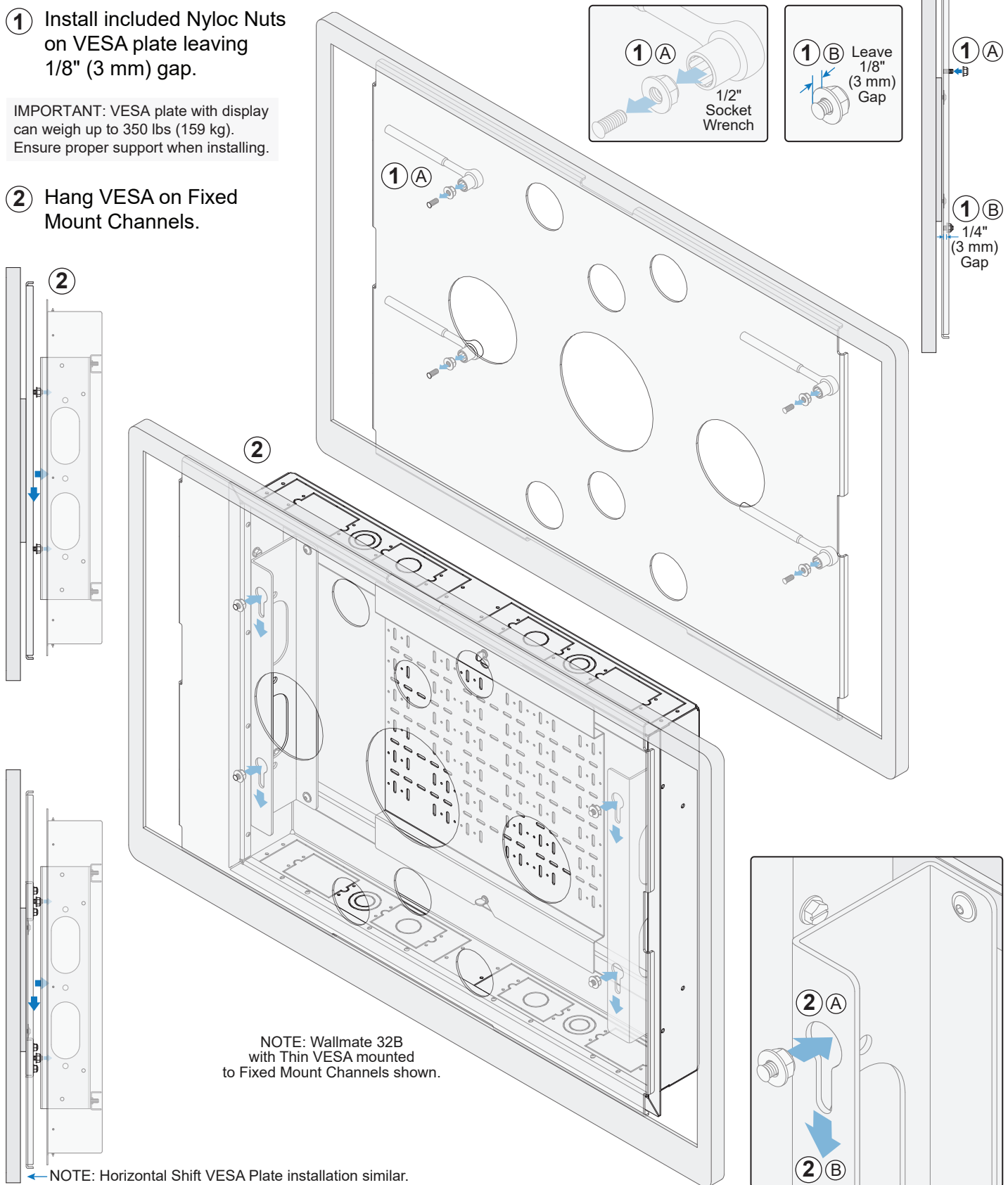
DISPLAY INSTALLATION (CONTINUED)
Mount Universal Plate to Display

Display

UNV

Note: M6 and M8 mounting fasteners
included. Use washer with M6 screws.

Note: Universal mount is for use with
displays in Landscape orientation.

1 Fasten Universal Plate
to back of display.

IMPORTANT: Ensure Universal
Plate is level to display.

M6

M6 x 16
Screws

Washer

OR

OR

M8

M8 x 16
Screws

1

2

NOTE: Wallmate 32B Universal
Plate model RPWM-32B-UNV-L
shown installed with M6 screws and washers.
Use appropriate fasteners for your installation.

IMPORTANT: Fasteners provided fit most displays.
Test fasteners to ensure they are correct size and
length. Longer screws may damage display.

2 Ensure lock is installed immediately after hanging the
display onto the Universal mount horizontal bars.
Failure to do so could result in serious injury or death.

DISPLAY INSTALLATION (CONTINUED)
Install Universal Plate to X-Arms

1 Install included Nyloc Nuts on top Universal plate studs leaving 1/4" (6 mm) gap.

NOTE: For Wallmate 32MAXB, install nuts on top and bottom studs. 32MAXB X-Arms have keyholes on top and bottom.

2 Hang Universal on X-Arms and install bottom nuts.

IMPORTANT: Universal plate with display can weigh up to 350 lbs (159 kg). Ensure proper support when installing.
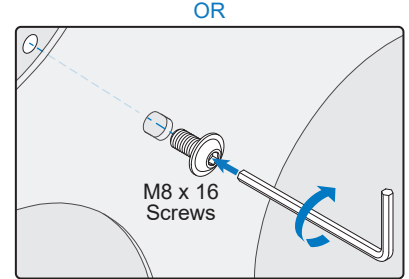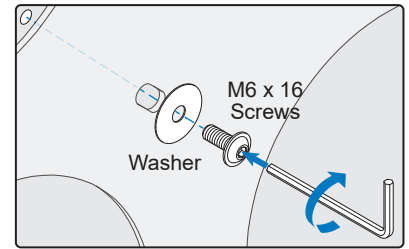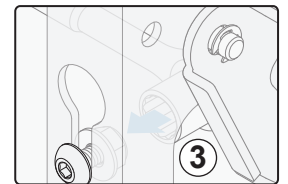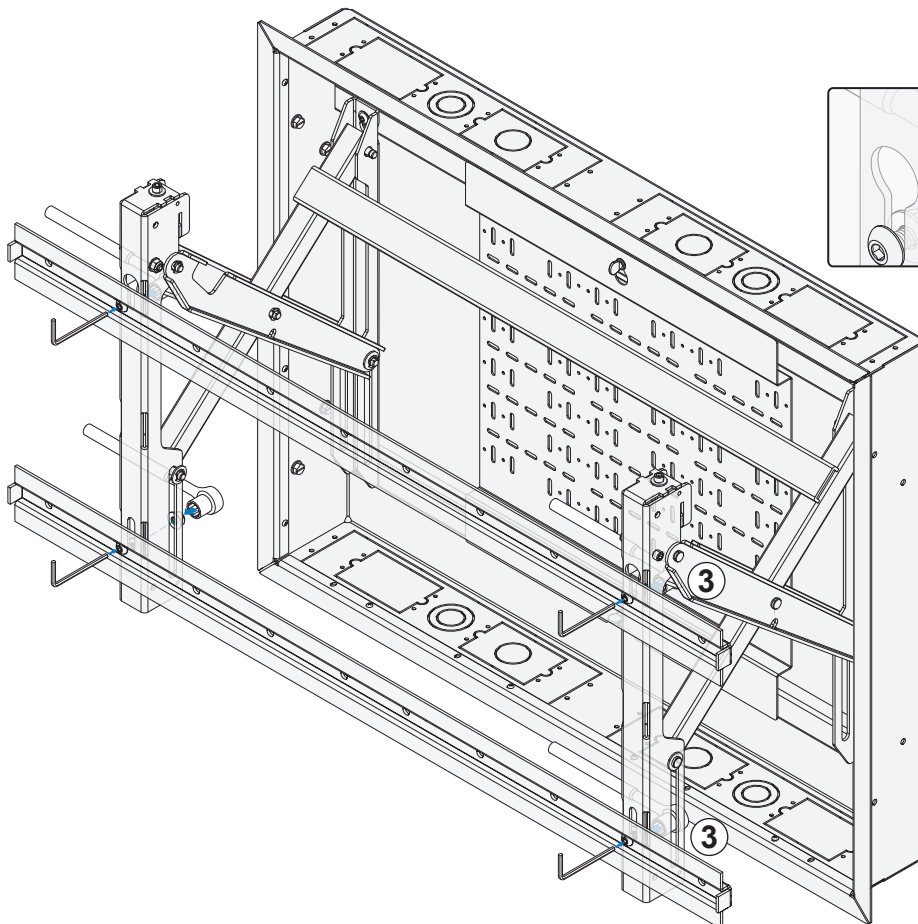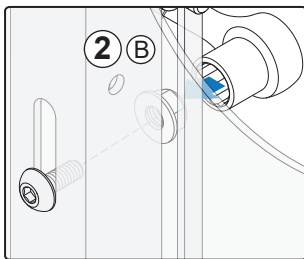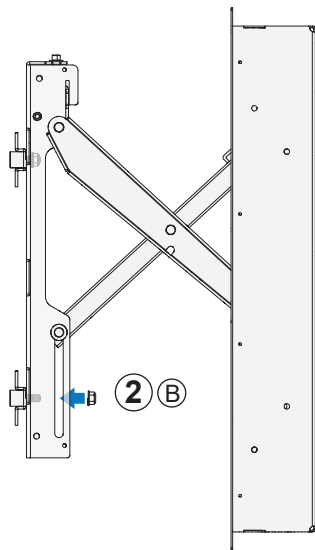
3 Tighten top and bottom nuts.

1 Ⓐ

2 Ⓐ

2 Ⓐ

1 Ⓐ
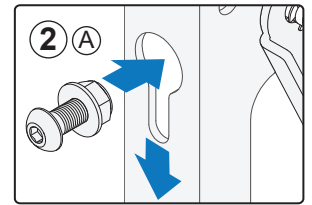1/2"
Socket Wrench

1 Ⓑ
Leave
1/4"
(6 mm)
Gap

2 Ⓑ

2 Ⓑ

3

3

3
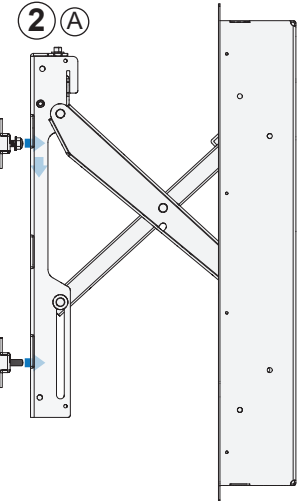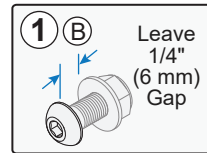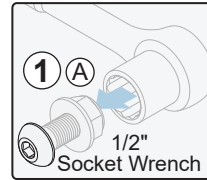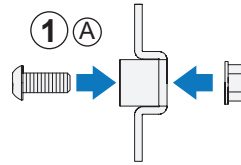
FINAL ADJUSTMENTS
Adjust Display to Plumb

If the display is not plumb, adjust the angle of the X-Arms +/- 0.6 degrees.

CAUTION: Adjust both arms in sequence. Turning one arm too far without the other could put stress on and damage the display.
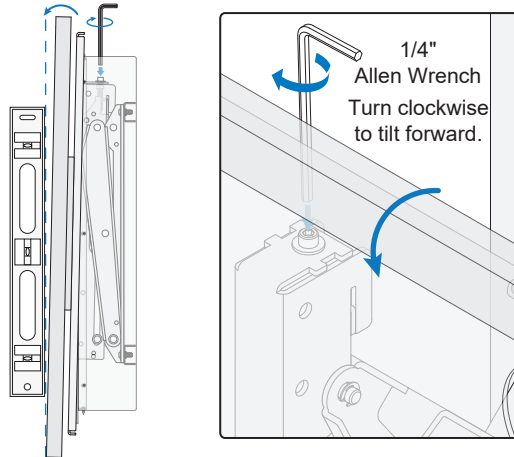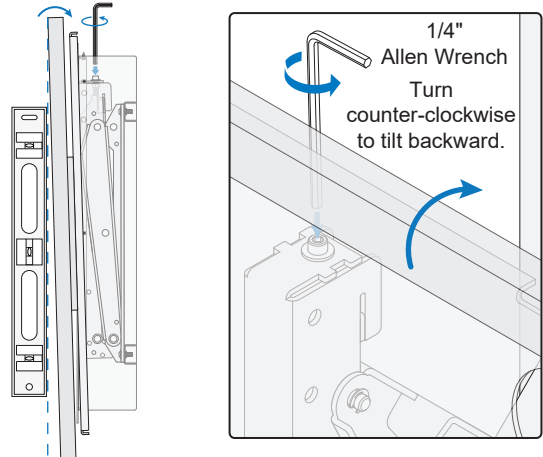
Turn X-Arm bolt clockwise to tilt display forward up to 0.6 degrees.

Turn X-Arm bolt counter-clockwise to tilt display backward up to 0.6 degrees.

1/4"
Allen Wrench
Turn clockwise to tilt forward.

OR

1/4"
Allen Wrench
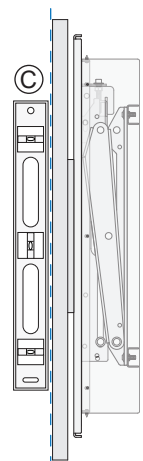Turn counter-clockwise to tilt backward.

IMPORTANT: Rotate bolt one turn on left arm. Repeat same turn on right arm. Continue to make same small adjustments on each arm until tilt is at desired angle and display is plumb.

Open X-Arm to access bolt.

(A)

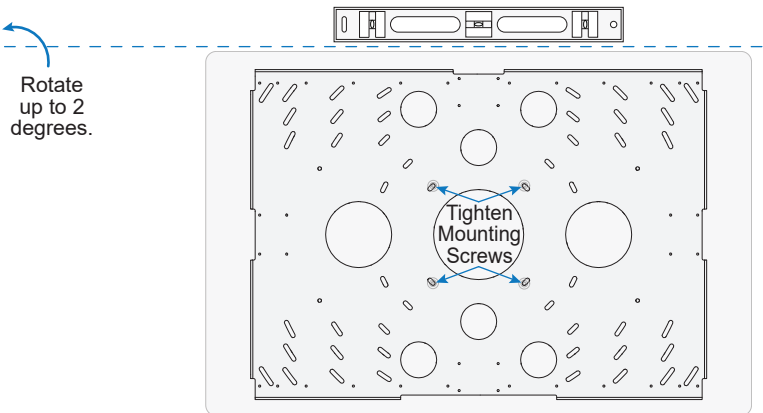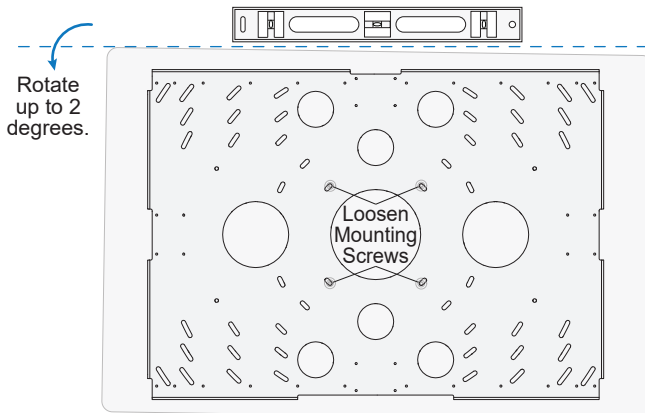(B)   (B)
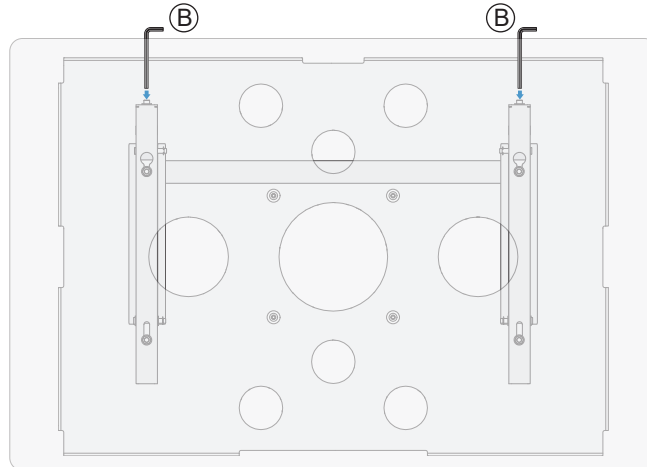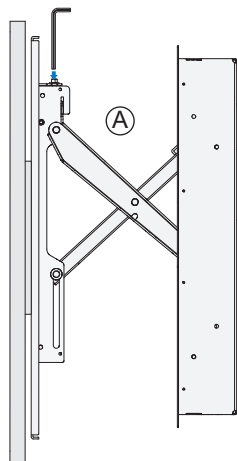
Close to check plumb.

(C)

Adjust Display to Level

If the display is not level, uninstall display to adjust VESA plate mounting angle +/- 2 degrees.

Loosen M6 or M8 screws and rotate display to level. See Page 17.

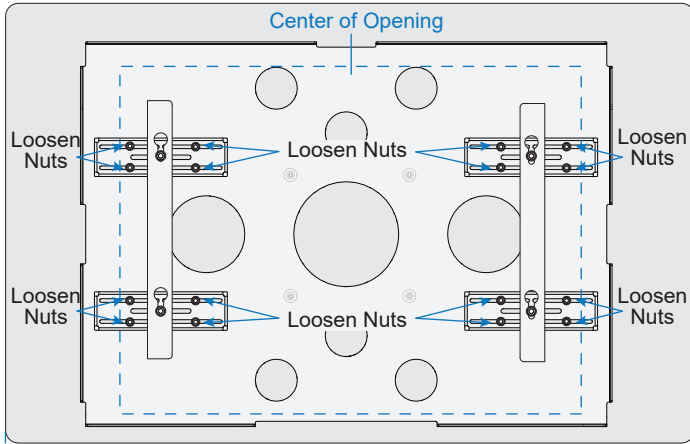Tighten screws and install display as shown on Pages 18 -19.

Rotate up to 2 degrees.

Rotate up to 2 degrees.

Loosen Mounting Screws

Tighten Mounting Screws

FINAL ADJUSTMENTS (CONTINUED)
Adjust Horizontal Shift VESA Plate

1 Loosen small nuts on Horizontal Shift Inserts attached to VESA plate.

Note: Do not loosen Large Center Nuts. They hold VESA plate to Mounting Arms.

Center of Opening

Loosen Nuts

Loosen Nuts

Loosen Nuts

Loosen Nuts

Loosen Nuts

Loosen Nuts

NOTE: Horizontal Shift VESA Plate mounted to Fixed Mount Channels on Wallmate 32B shown. Installations mounted to X-Arms similar.

2 Slide display and VESA plate left or right to desired position. Tighten all nuts securely.

Note: Maximum adjustment is 2" (51 mm) in either direction.

Center of Opening

Shift 2" (51 mm) from side to side.

Center of Opening