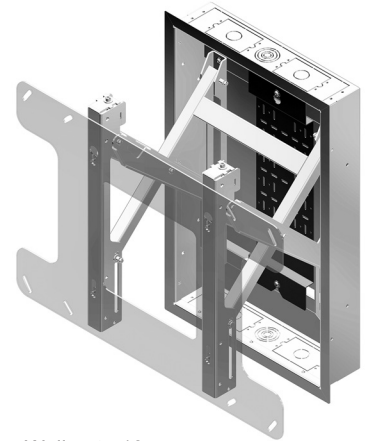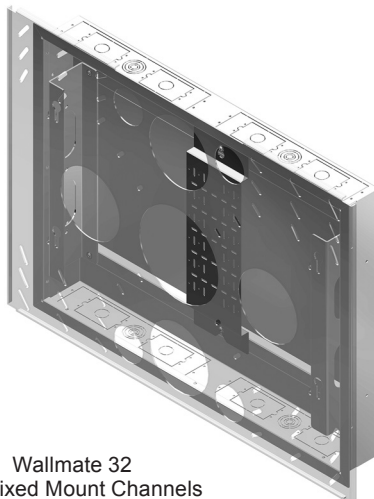# WALLMATE
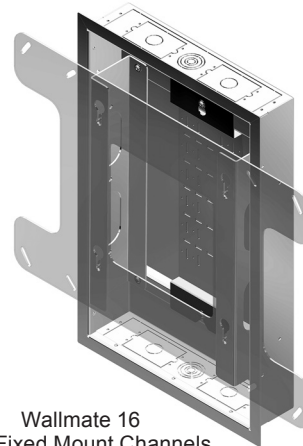## FLAT PANEL INTEGRATION SYSTEM
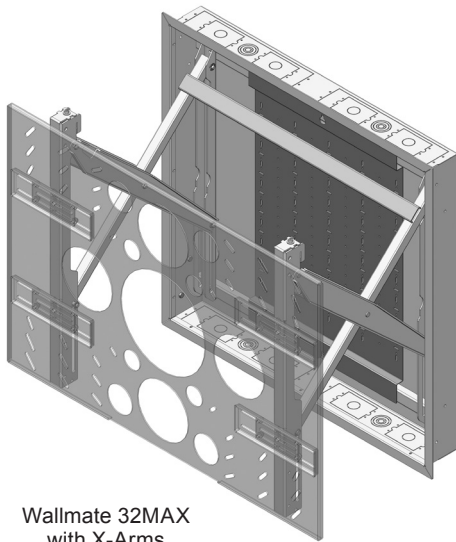
Wallmate 32MAX
with X-Arms
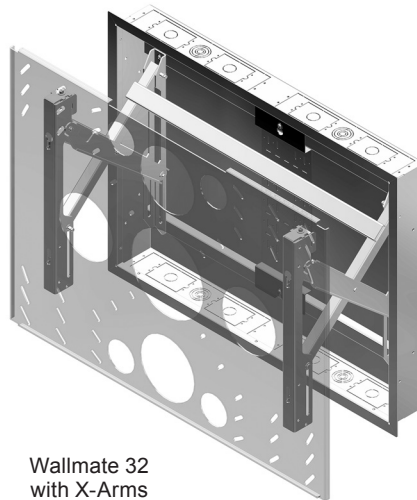
Wallmate 32
with X-Arms

Wallmate 16
with X-Arms

Wallmate 32
with Fixed Mount Channels

Wallmate 16
with Fixed Mount Channels

7-27-20

TABLE OF CONTENTS

IMPORTANT: READ THIS MANUAL THOROUGHLY BEFORE BEGINNING INSTALLATION

WEIGHT LIMITATIONS

Model	Weight Capacity
Wallmate 16	125 lbs (57 kg)
Wallmate 32	300 lbs (136 kg)
Wallmate 32MAX	350 lbs (159 kg)

REQUIRED TOOLS

- 1/4" and 3/16" Allen Wrenches
- M6 and M8 Allen Wrenches
- Flat Head Screwdriver
- Phillips Head Screwdriver
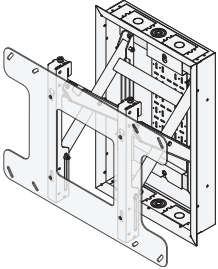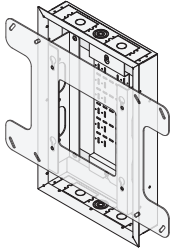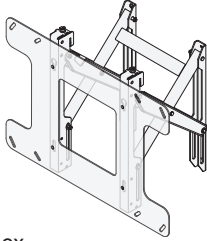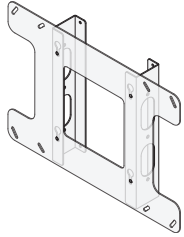- 1/2" Socket Wrench
- Level
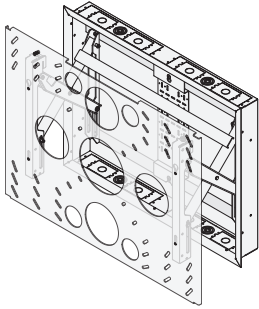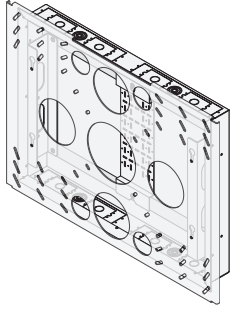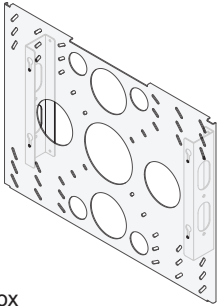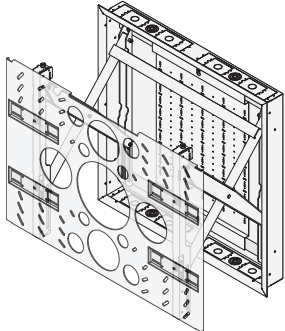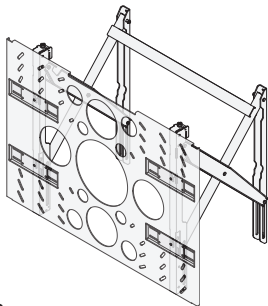
NOTE: Wallmate 32 shown in examples. Wallmate 16 and 32MAX have similar installation processes.
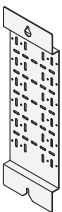
PARTS IDENTIFICATION

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

Wallmate Kits

RPWM-16-XM-TNV	RPWM-16-FM-TNV	RPWM-16-XM-TNV-NB	RPWM-16-FM-TNV-NB
Thin X-Arm Wallmate 16 Kit	Thin Lift-Off Wallmate 16 Kit	No Box Thin X-Arm Wallmate 16 Kit	No Box Thin Lift-Off Wallmate 16 Kit
RPWM-32-XM-TNV	RPWM-32-FM-TNV	RPWM-32-XM-TNV-NB	RPWM-32-FM-TNV-NB
Thin X-Arm Wallmate 32 Kit	Thin Lift-Off Wallmate 32 Kit	No Box Thin X-Arm Wallmate 32 Kit	No Box Thin Lift-Off Wallmate 32 Kit
RPWM-32MAX-XM-TNV	RPWM-32MAX-XM-TNV-NB		
Thin X-Arm Wallmate 32MAX Kit	No Box Thin X-Arm Wallmate 32MAX Kit		
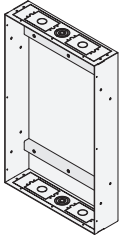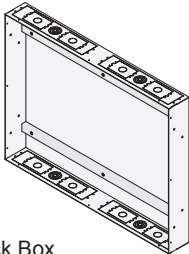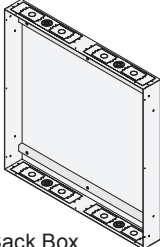
Wallmate Component Mounting Accessories

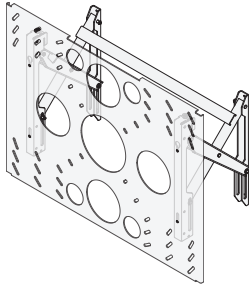|			
RPWM-16-PM	RPWM-32-PM	RPWM-32MAX-PM	RPWM-AUXBOX
Peripheral Device Mounting Plate for Wallmate 16 and 32	Optional Peripheral Device Mounting Plate for Wallmate 32	Peripheral Device Mounting Plate for Wallmate 32MAX	In Wall Auxiliary Box
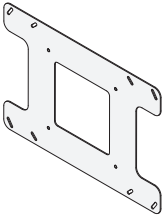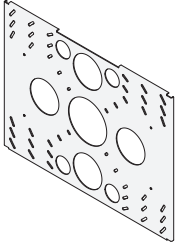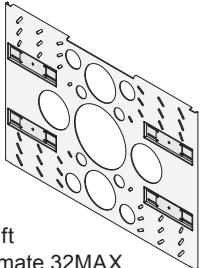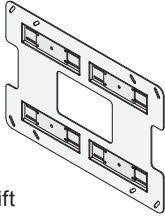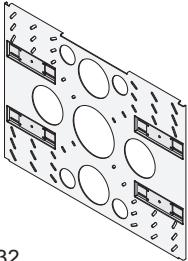
PARTS IDENTIFICATION (CONTINUED)

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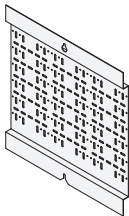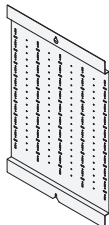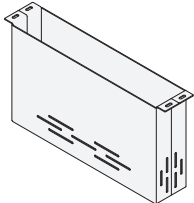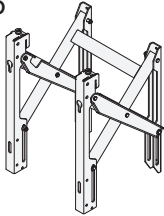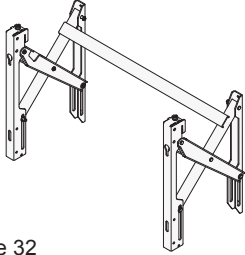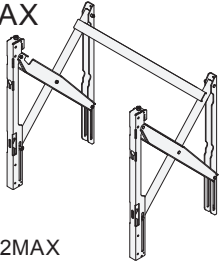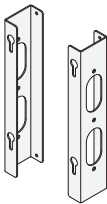
Wallmate Back Boxes

RPWM-16-BOX
Wallmate 16 Back Box

RPWM-32-BOX
Wallmate 32 Back Box

RPWM-32MAX-BOX
Wallmate 32MAX Back Box

Wallmate VESA Mounting Plates

RPWM-16-TNV
Stock Thin VESA Plate for Wallmate 16

RPWM-32-TNV
Stock Thin VESA Plate for Wallmate 32

RPWM-32MAX-HSB
Stock Horizontal Shift
VESA Plate for Wallmate 32MAX

RPWM-16-HSB*
Custom Horizontal Shift
VESA Plate for Wallmate 16

RPWM-32-HSB*
Custom Horizontal Shift
VESA Plate for Wallmate 32

NOTE: Custom TNV plates available for any display.

RPWM-15-TNV-CUSTOM
RPWM-32-TNV-CUSTOM
RPWM-32MAX-TNV-CUSTOM

Wallmate Mounting Versions

RPWM-XM-16
X-Arms for Wallmate 16

RPWM-XM-32
X-Arms for Wallmate 32

RPWM-XM-32MAX
X-Arms for Wallmate 32MAX

RPWM-FM
Fixed Mount Channels for Wallmate 16 and 32

RPWM-TILT*
Optional 10 degree Tilt Arms.
Combine with Fixed Mount Channels or X-Arms for Wallmate 16, 32 and 32MAX

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

SPECIFICATIONS

Black Boxes shown with Peripheral Panels as shipped.

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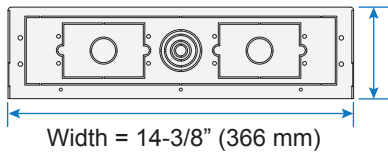
Depth = 3-13/16"
(97 mm)

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

Wallmate 32 and Wallmate 32MAX (View from Top)

Width = 30-3/8" (772 mm)
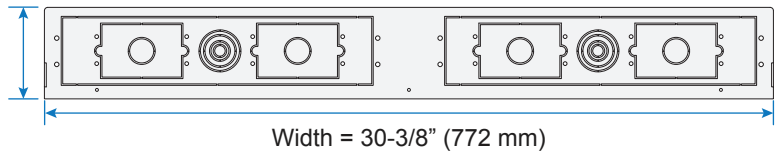
Wallmate 16 (View from Front)

Height = 23-5/16"
(593 mm)
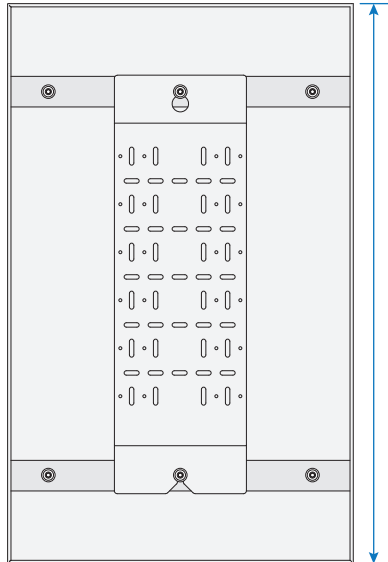
Wallmate 32 (View from Front)
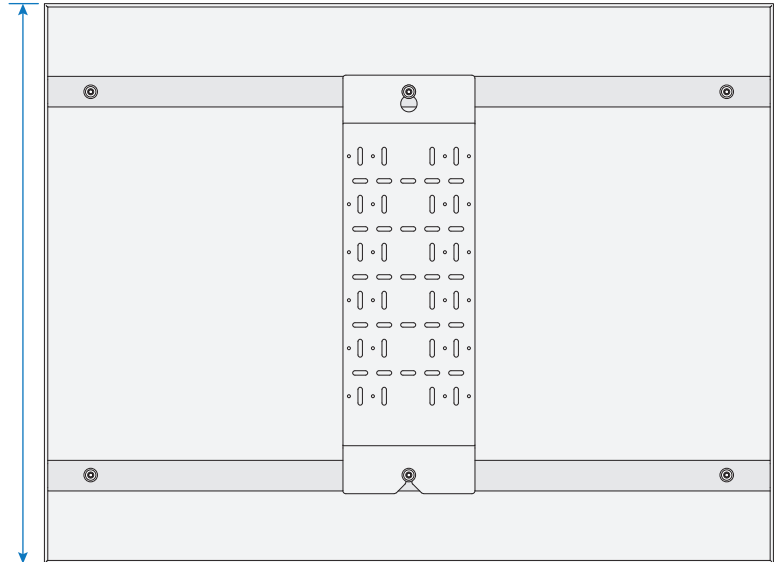
NOTE: Back Box is shipped with Peripheral Device Mounting Plate and Mounting Arm Fasteners installed. Standard configurations shown. Trim Bezel with fasteners packed in carton.

Wallmate 32MAX (View from Front)

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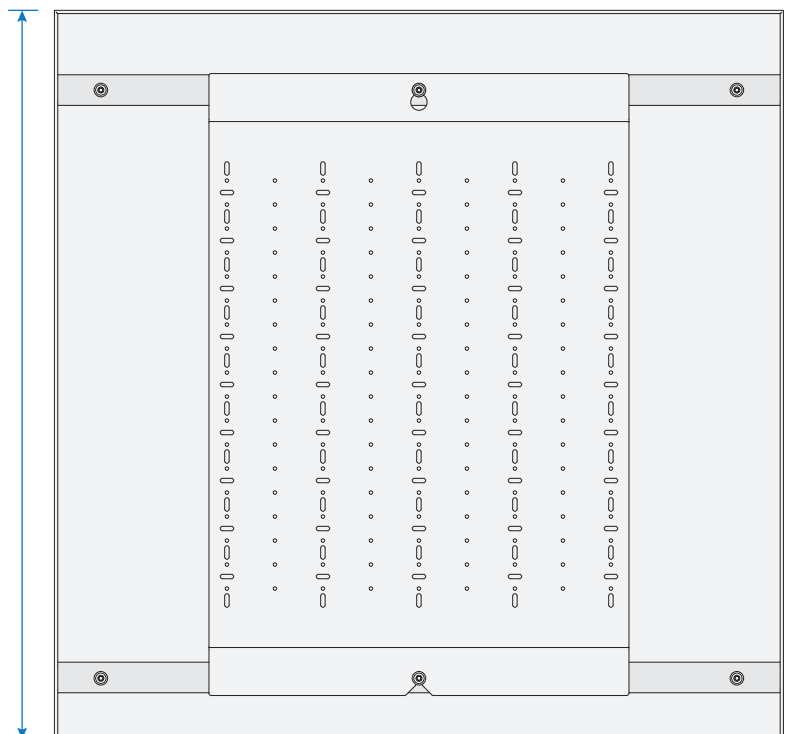
FRAMING PREPARATION

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 16 fits in most standard framing to hold 125 lbs (57 kg). Wallmate 32 and 32MAX 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 16 Width = 14-3/8" (366 mm)
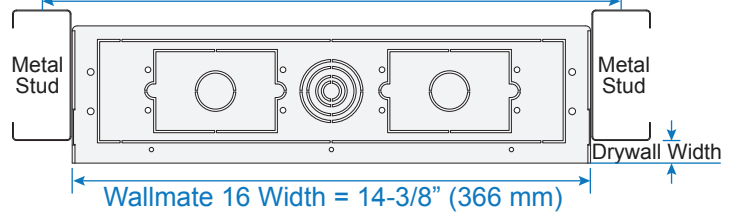
① Typical Distance Between Studs = 32" (813 mm) On Center

14 Gauge Metal Stud

14 Gauge Metal Stud

Drywall Width

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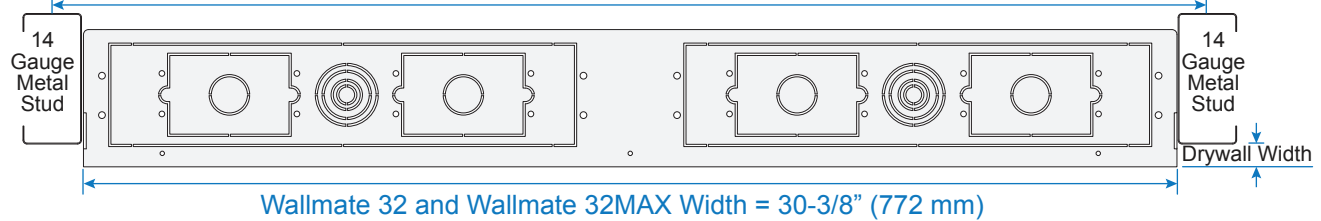
BACK BOX INSTALLATION

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)

② Mount with fasteners approved by Structural Engineer at factory drilled holes. Ensure fasteners are fully secured to studs.

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

NOTE: For acoustic panels and wall finishes thicker than 3/4" (19 mm), use optional channel spacers mounted to front of system to ensure fasteners are properly secured to metal studs.

IMPORTANT: Ensure Back Box is mounted level and plumb.

NOTE: Back Box is installed with Peripheral Mounting Plate. Wallmate 32 shown.

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

The Back Box is designed with multiple options to easily knock out and install electrical boxes and conduits as well as an Auxiliary Box to store additional components. The same options are located on the top and bottom of each Back Box. Wallmate 32 and 32MAX have twice the amount of knock outs as the Wallmate 16.

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

Multi Size Conduit Knock Out   Knock Out Rectangle for Auxiliary Box
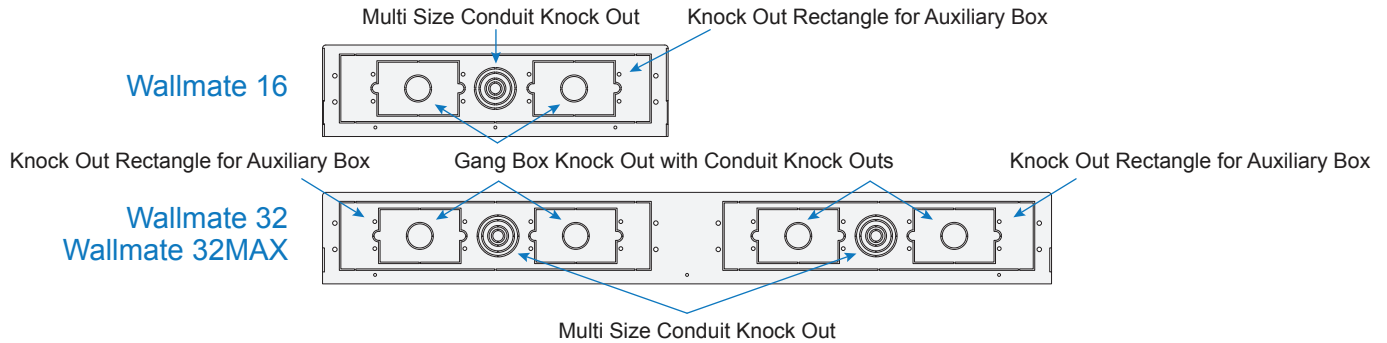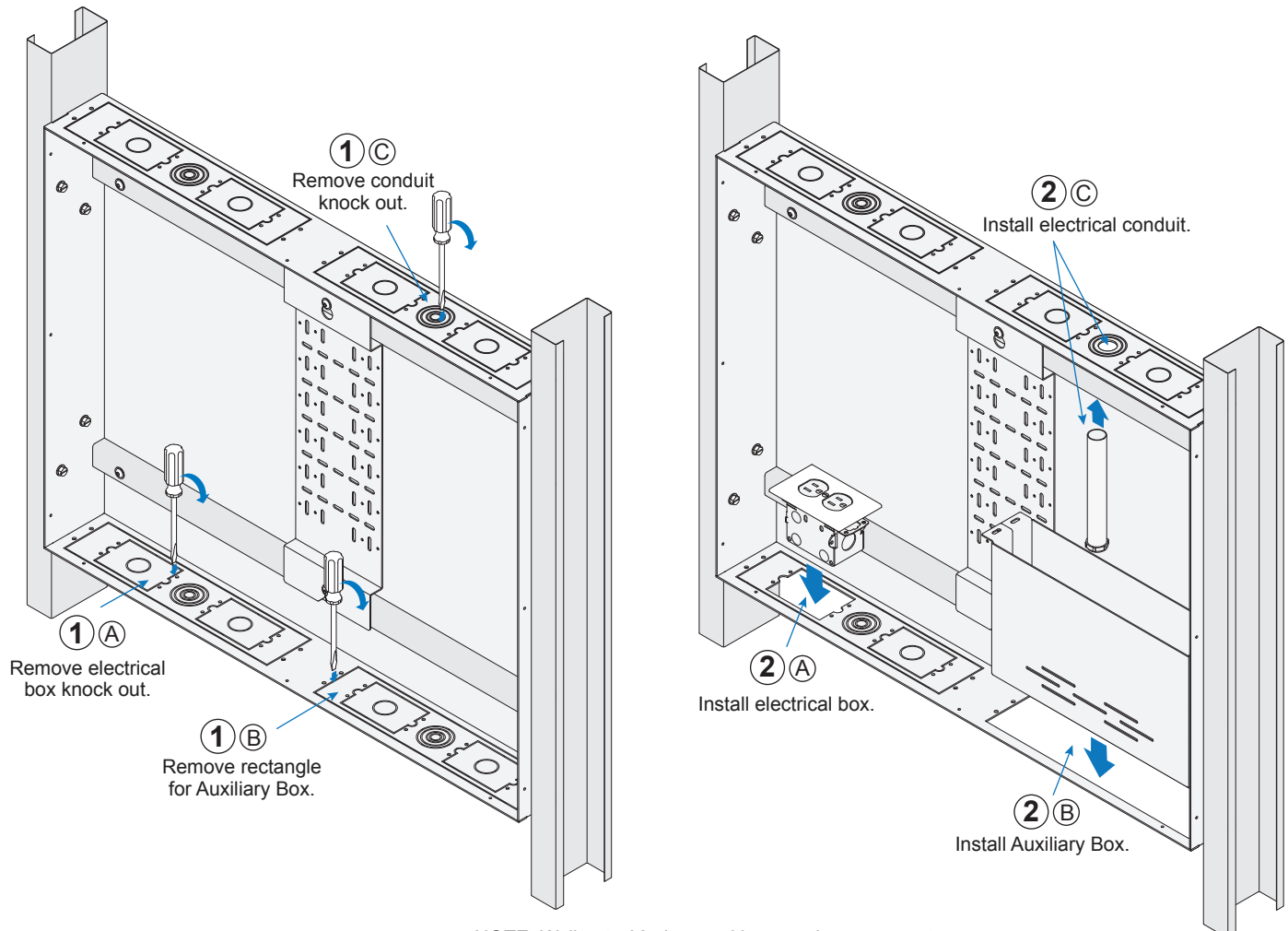
Wallmate 16

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

Wallmate 32
Wallmate 32MAX

Multi Size Conduit Knock Out

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

2 Install components.

1 Ⓒ Remove conduit knock out.

2 Ⓒ Install electrical conduit.

1 Ⓐ Remove electrical box knock out.

1 Ⓑ Remove rectangle for Auxiliary Box.

2 Ⓐ Install electrical box.
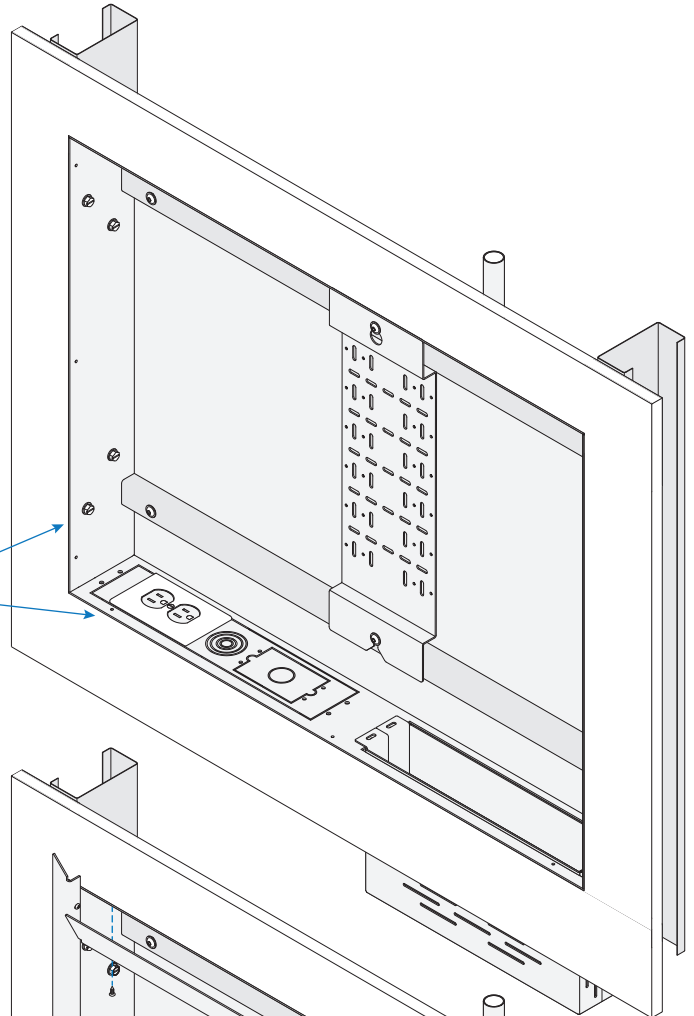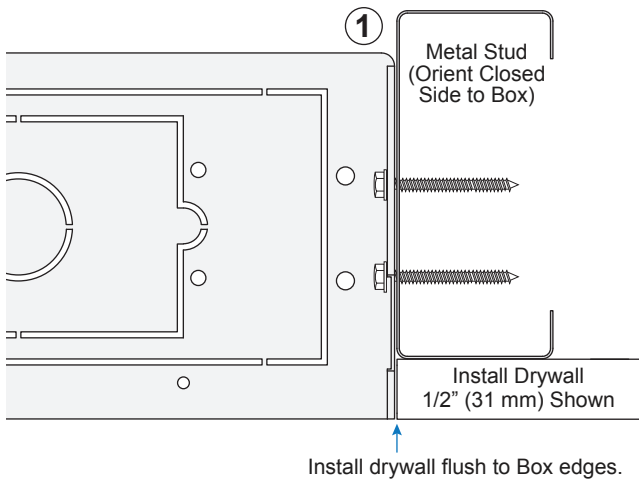
2 Ⓑ Install Auxiliary Box.

NOTE: Wallmate 32 shown with example components.

BACK BOX INSTALLATION (CONTINUED)
Drywall Installation

① Install drywall flush to edges of Back Box.

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 Ⓐ

② Ⓐ

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

② Ⓑ

② Ⓑ

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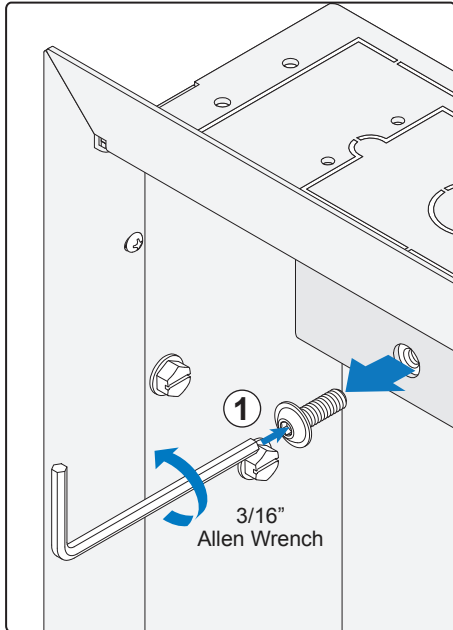install horizontal Trim
with included
Philips Head Screws.
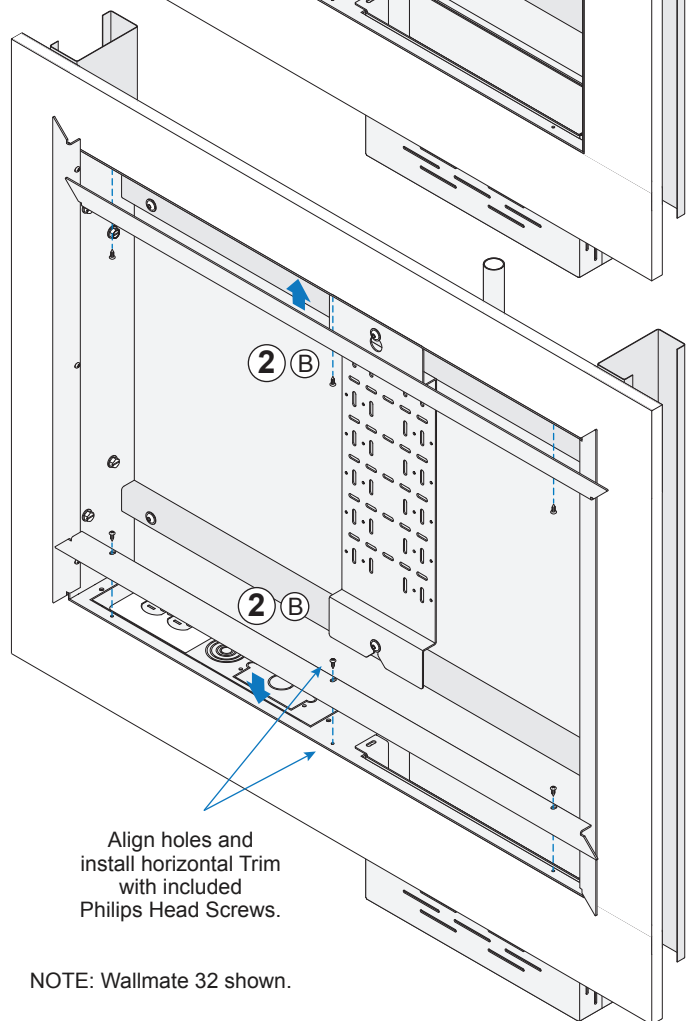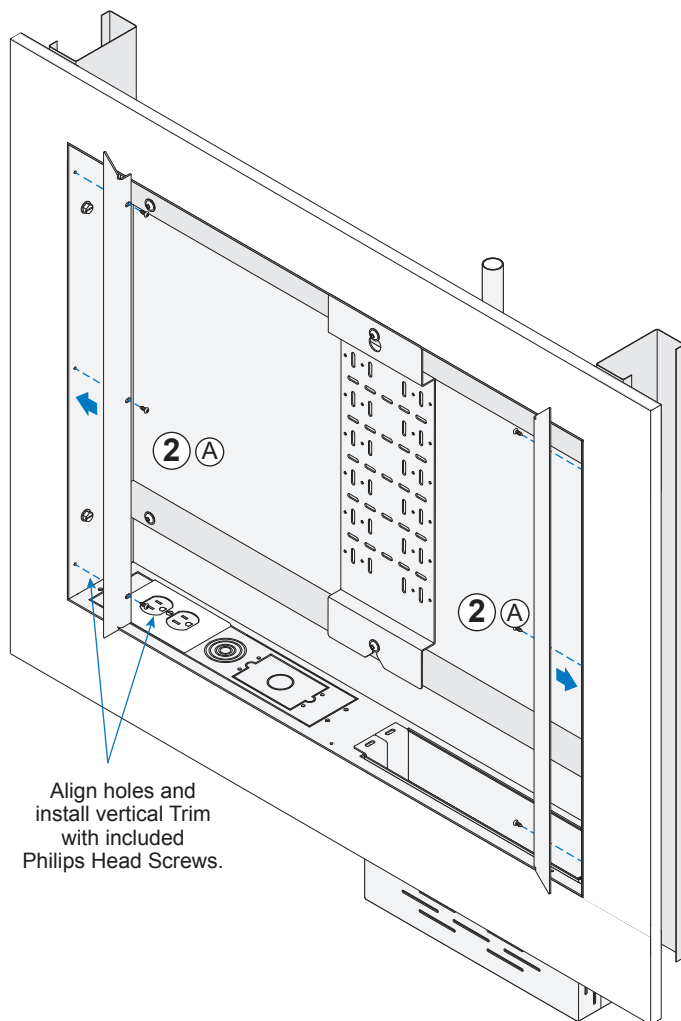
NOTE: Wallmate 32 shown.

MOUNTING ARM INSTALLATION
Install X-Arms

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

3/16"
Allen Wrench

2 Extend X-Arms and install in Back Box.
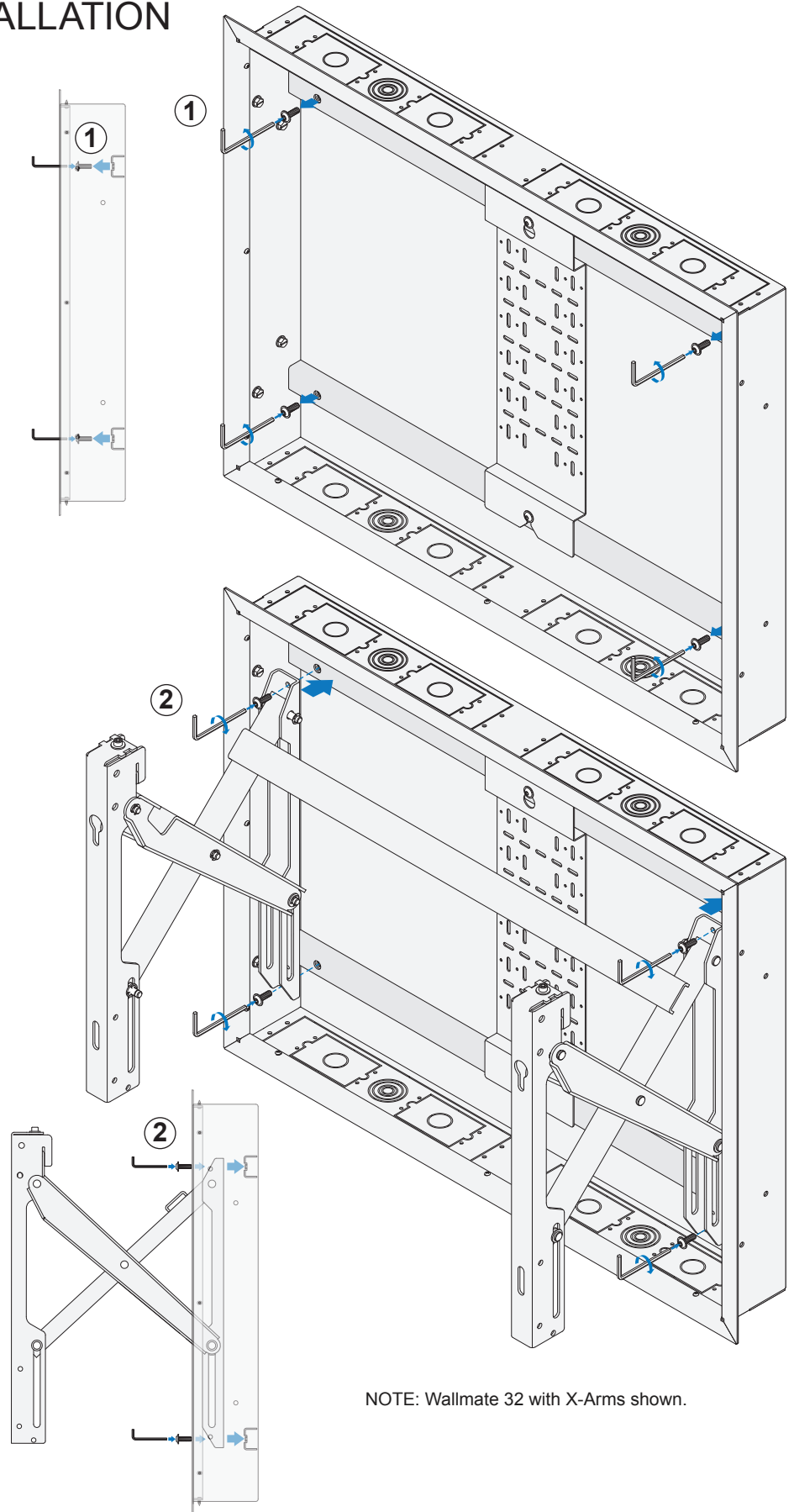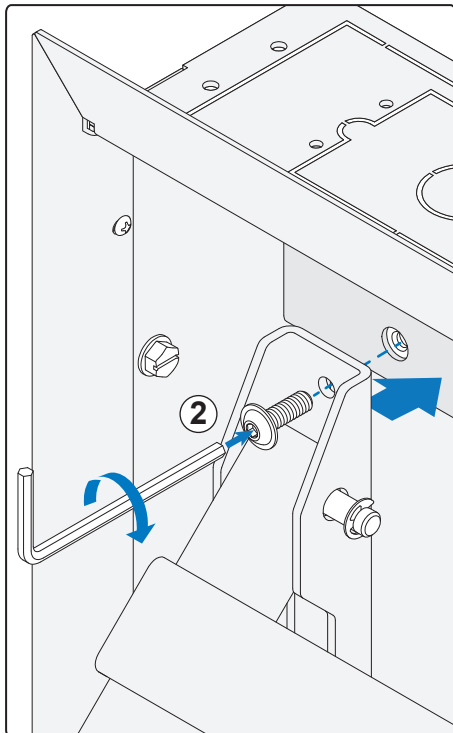
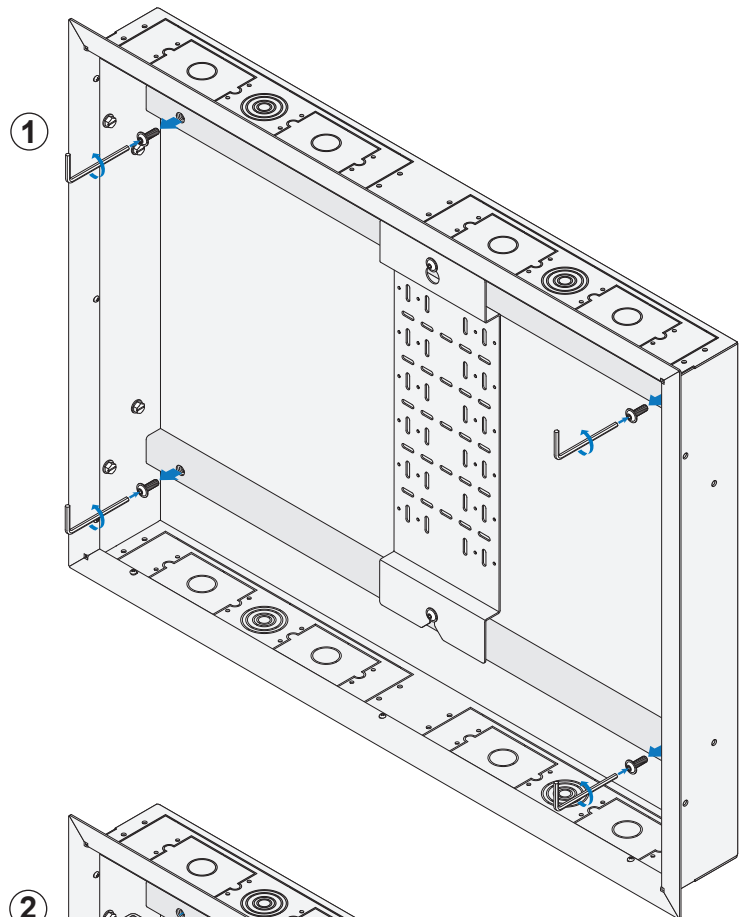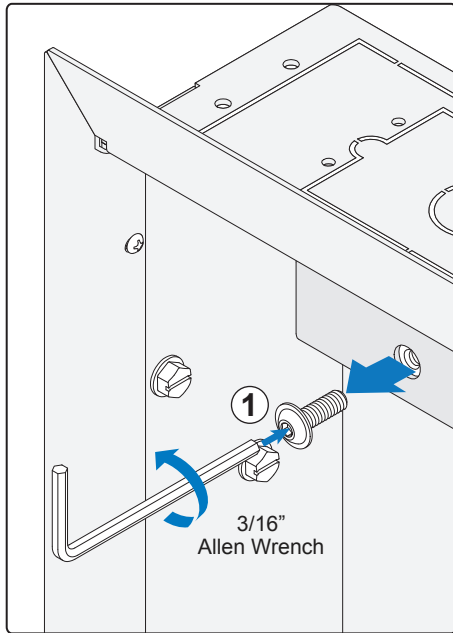
NOTE: Wallmate 32 with X-Arms shown.

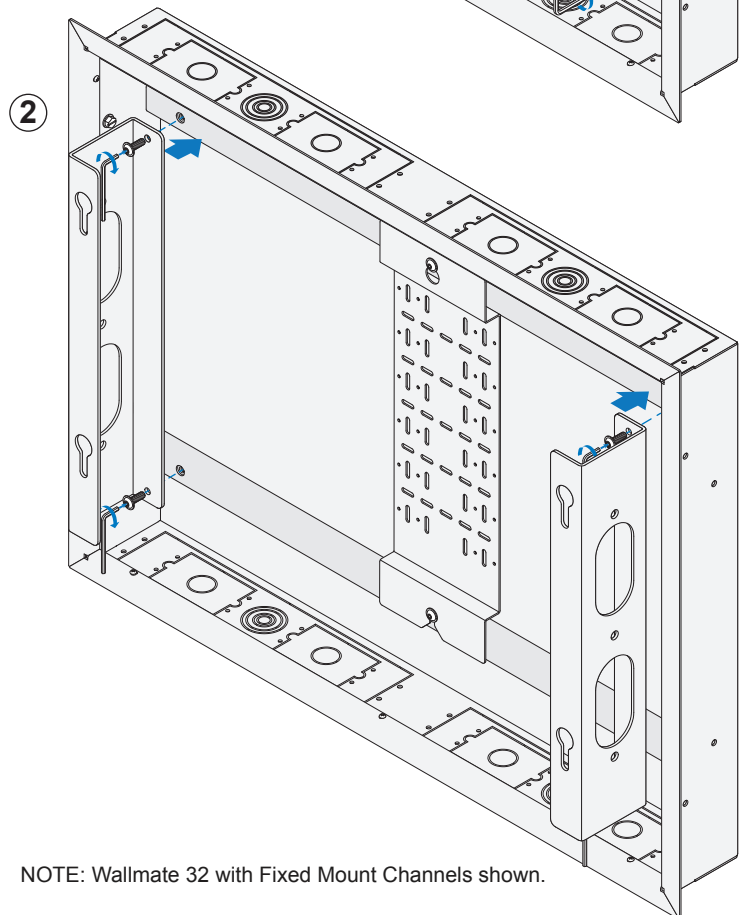# MOUNTING ARM INSTALLATION (CONTINUED)
Install Fixed Mount Channels

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

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

(1)

3/16"
Allen Wrench

(2) Mount Fixed Mount Channels.

(2)

3/16"
Allen
Wrench
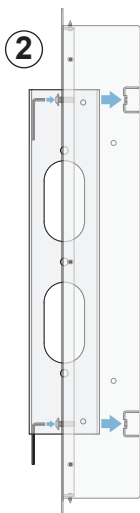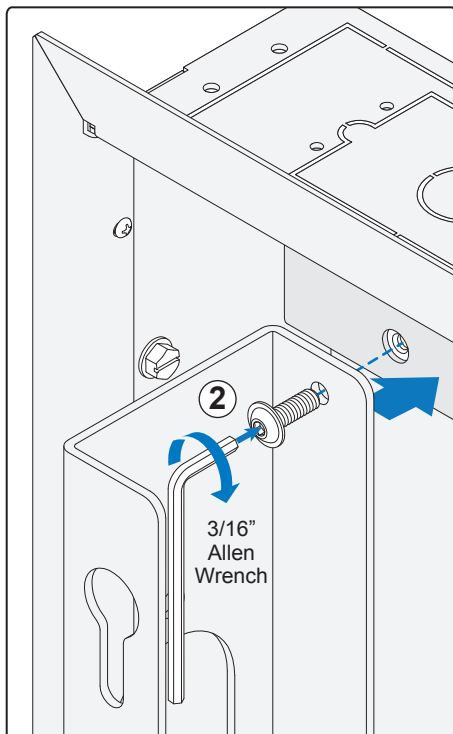
NOTE: Wallmate 32 with Fixed Mount Channels shown.

OPTIONAL TILT ARM INSTALLATION
Mount to X-Arms

1/2"
Socket
Wrench

Mount to Fixed Mount Channels
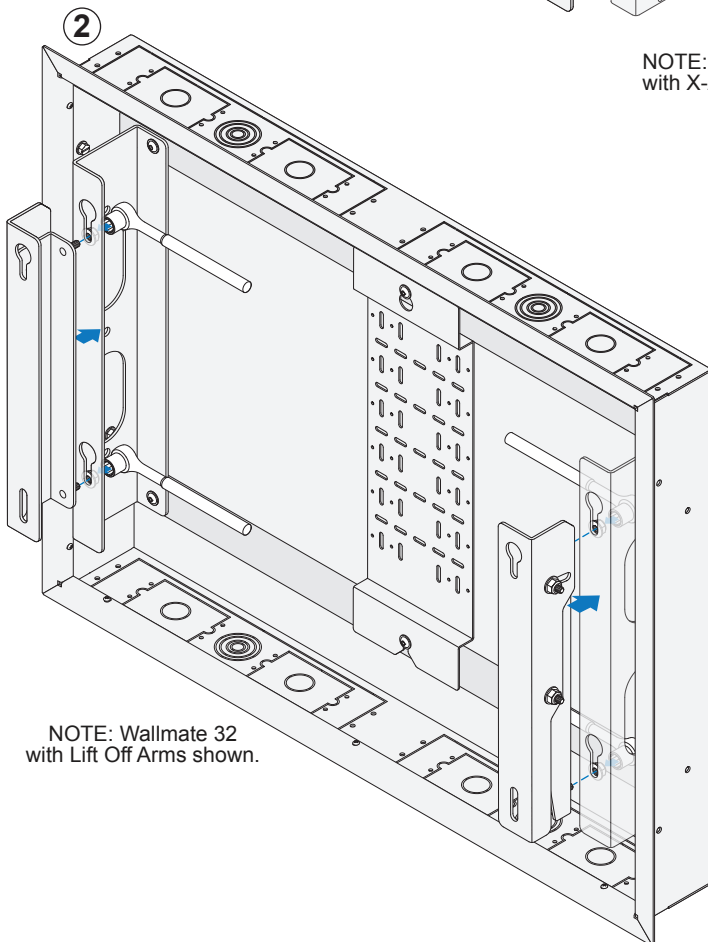
NOTE: Wallmate 32
with X-Arms shown.
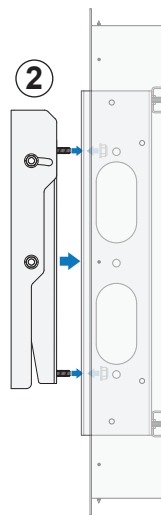
NOTE: Wallmate 32
with Lift Off Arms shown.

1/2"
Socket
Wrench

ACCESSORY COMPONENT INSTALLATION
Mount to Peripheral Plate

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

1 Loosen screws holding Peripheral Plate in place.

3/16"
Allen Wrench
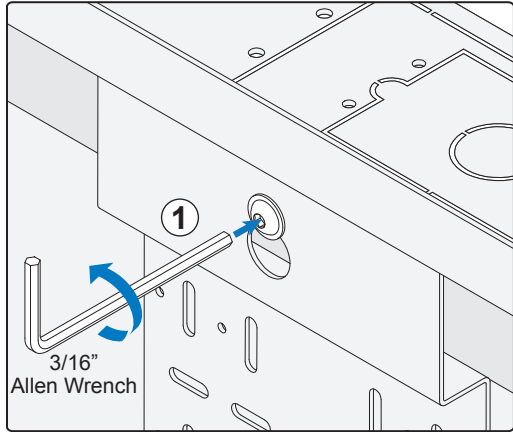
2 Lift Plate up and out of Back Box.

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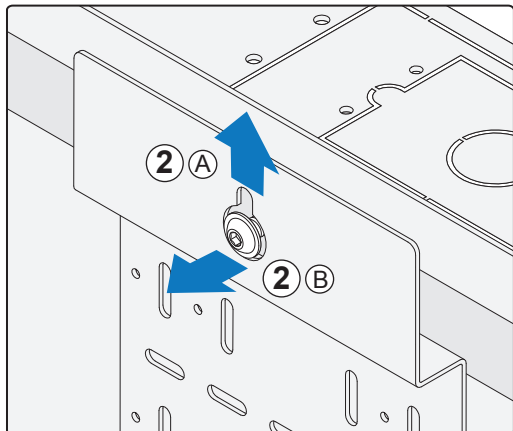
3 Install components.

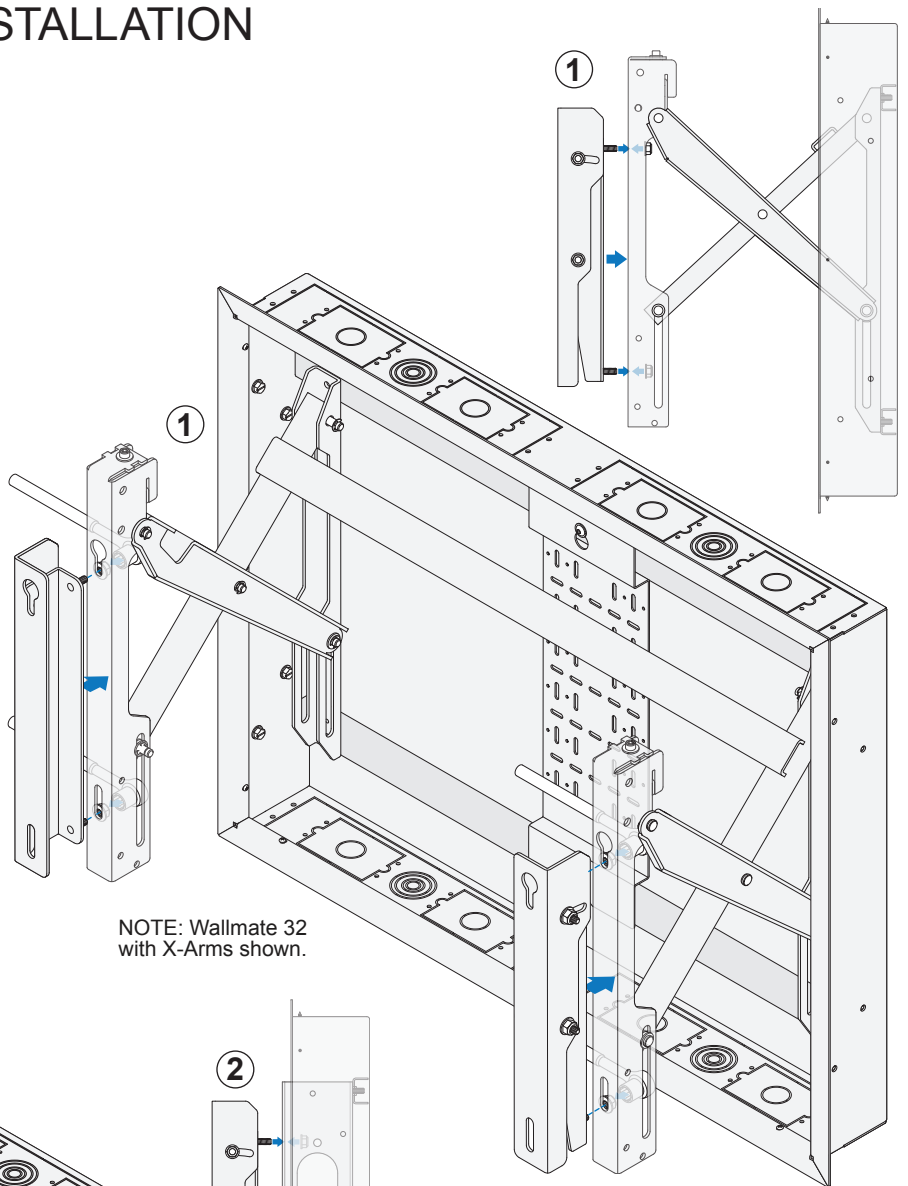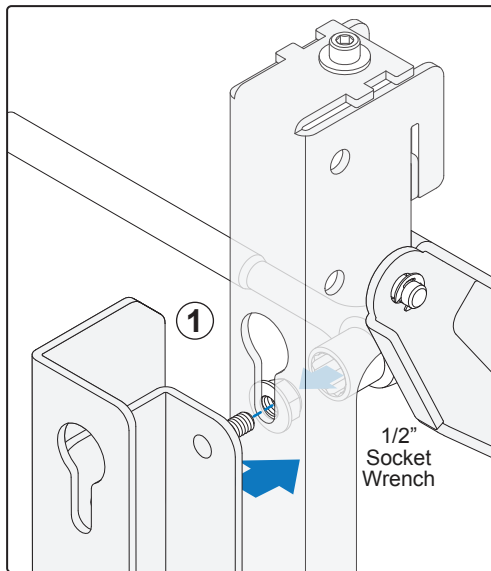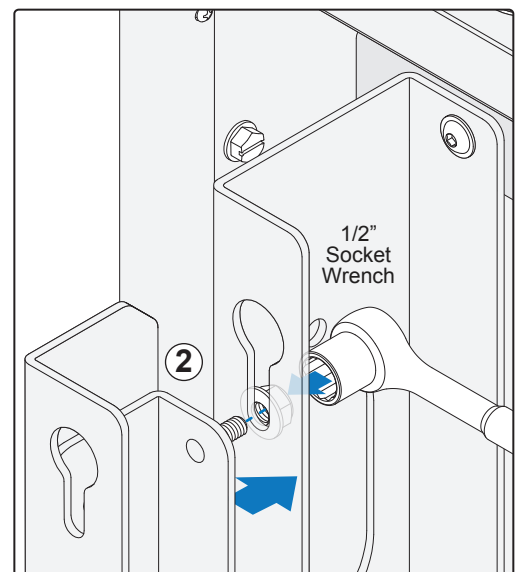Note: Components typically attached to Peripheral Plate with Zip Ties. Ensure they clear X-Arm in closed position or face of Lift Off Arm.

4 Hang Plate and tighten screws.
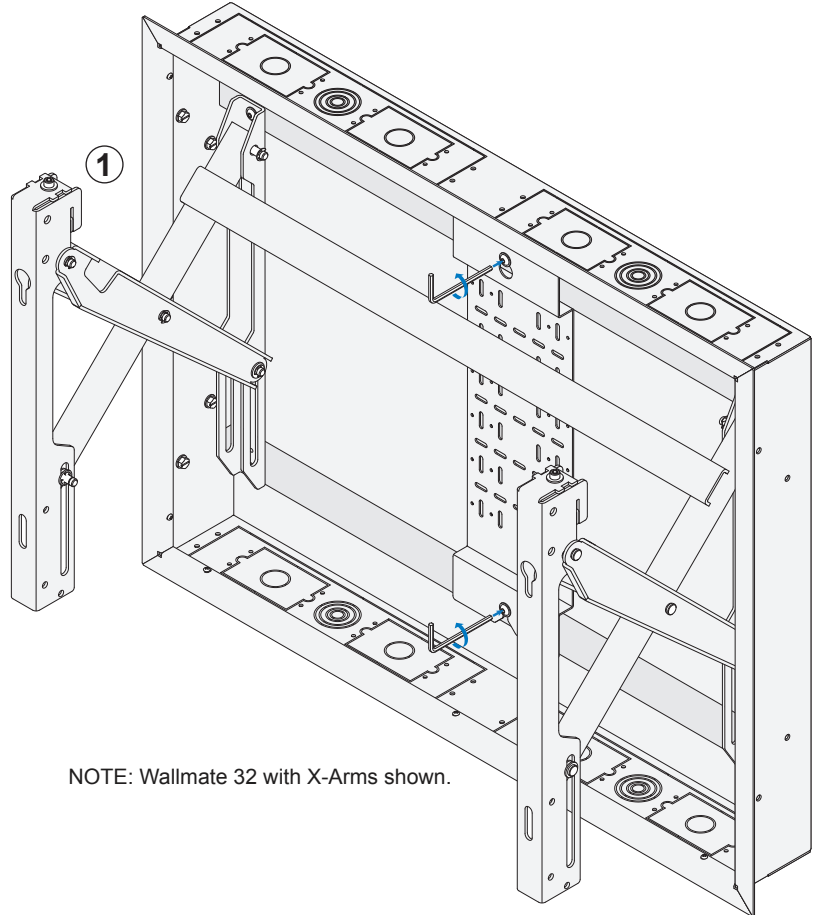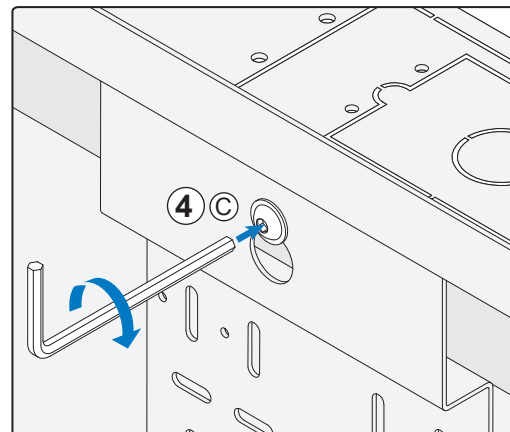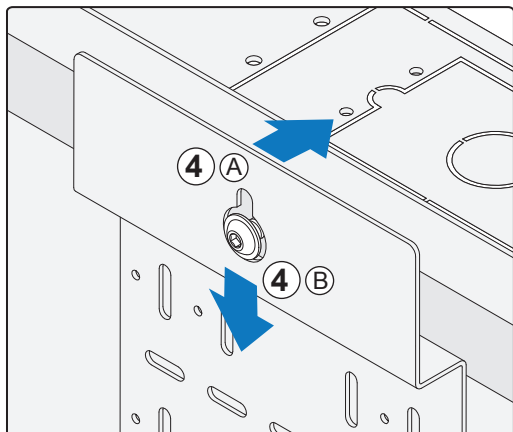
DISPLAY INSTALLATION
Mount to Thin VESA Plate

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

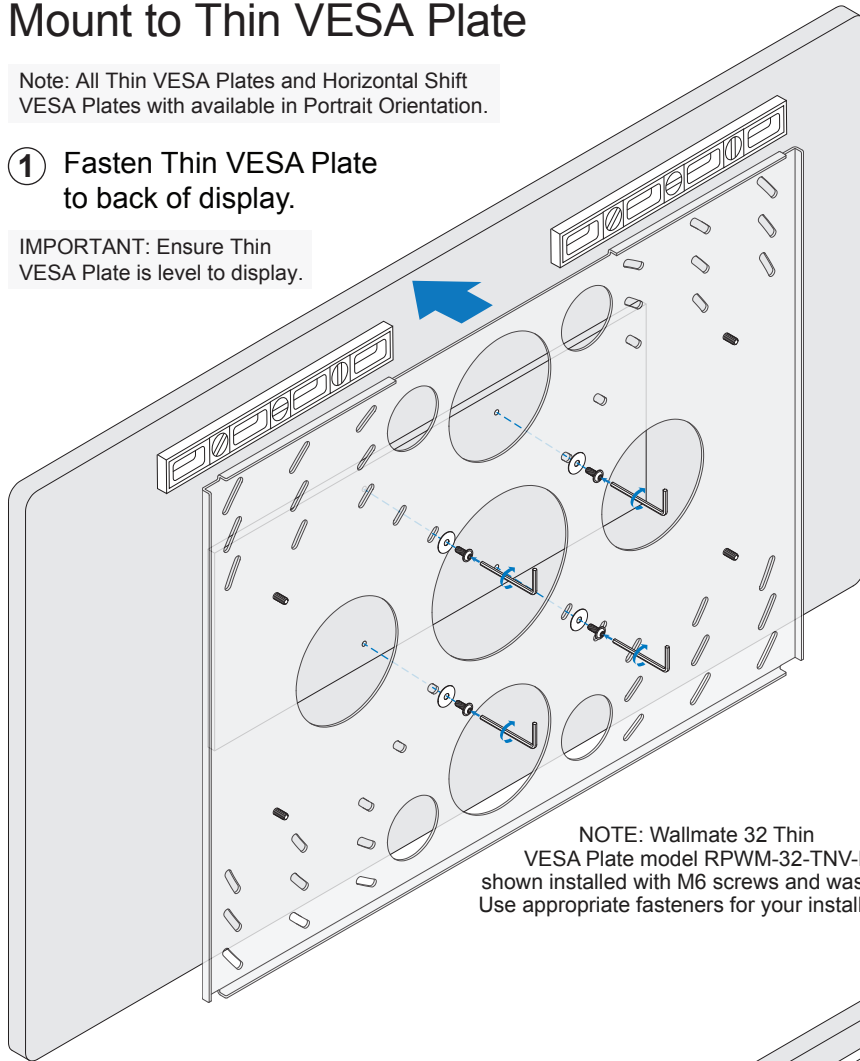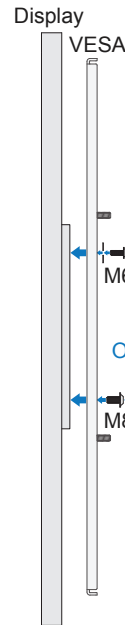Note: M6 and M8 mounting fasteners included. Use washer with M6 screws.

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 32 Thin VESA Plate model RPWM-32-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 16 and 32 and standard with Wallmate 32MAX. Shift is +/- 2".

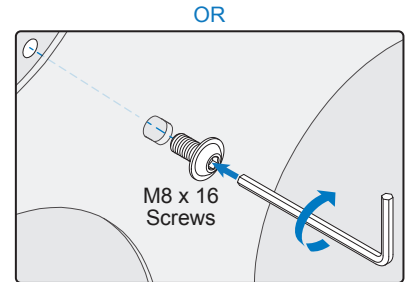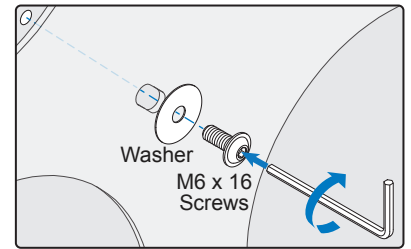(2) **Fasten Horizontal Shift VESA Plate to back of display.**

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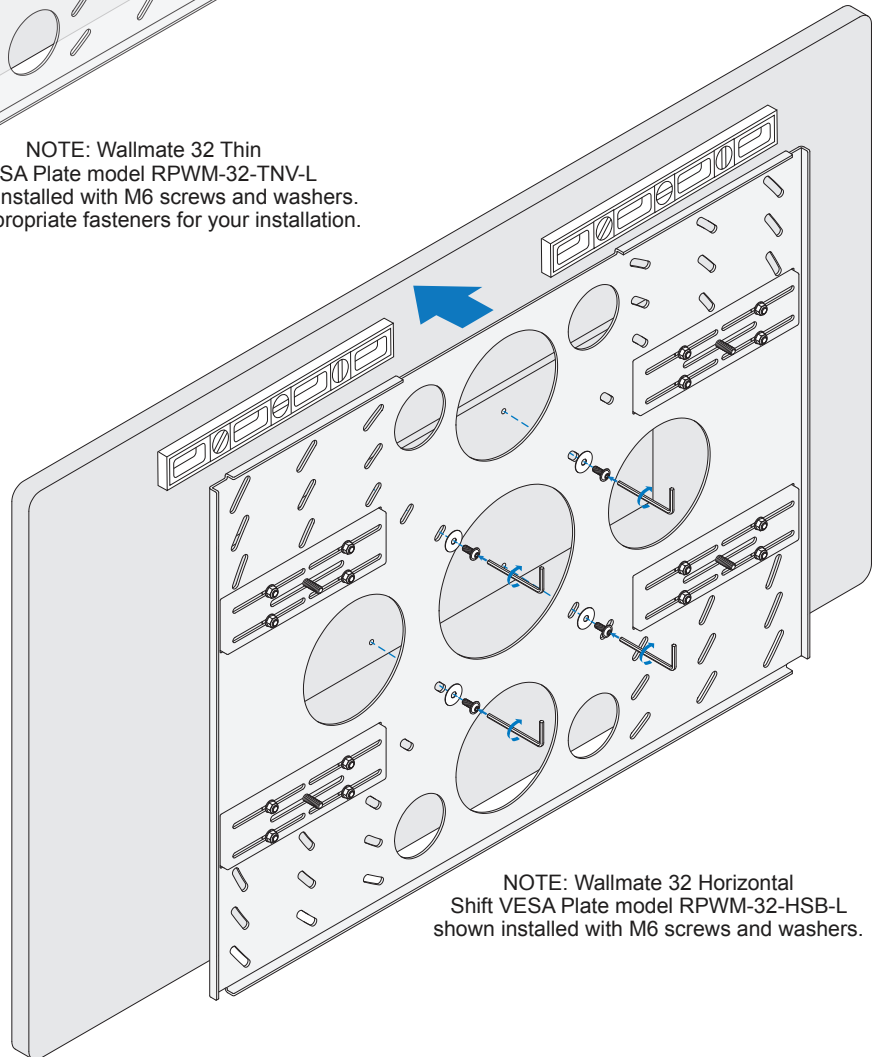
NOTE: Wallmate 32 Horizontal Shift VESA Plate model RPWM-32-HSB-L shown installed with M6 screws and washers.

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 32MAX, install nuts on top and bottom studs. 32MAX 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.

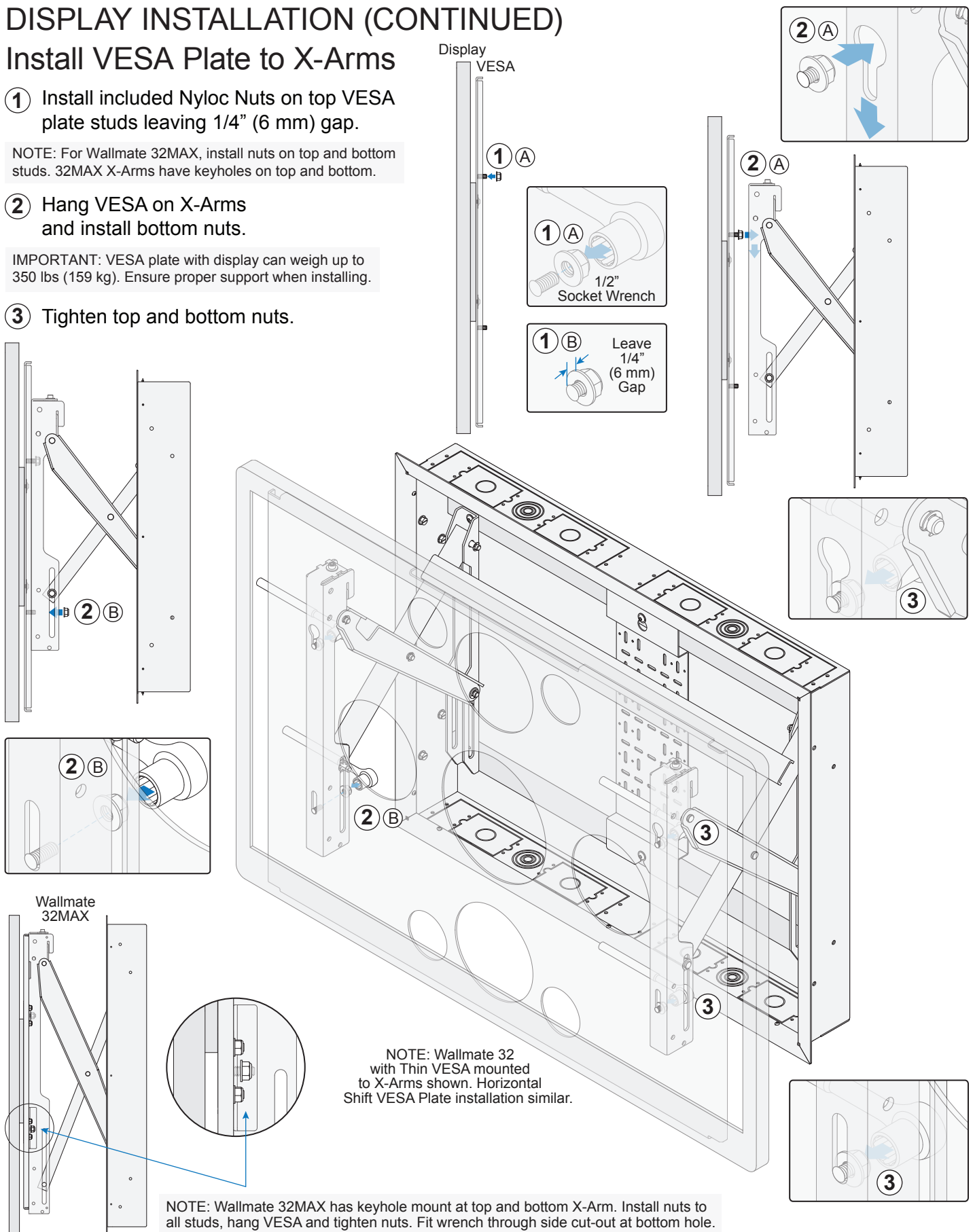**③** Tighten top and bottom nuts.

Display
VESA

① Ⓐ

① Ⓐ
1/2"
Socket Wrench

① Ⓑ
Leave 1/4" (6 mm) Gap

② Ⓐ

② Ⓐ

② Ⓑ

② Ⓑ

③

③

③

③

Wallmate 32MAX

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

NOTE: Wallmate 32MAX 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 Ⓐ 1/2" Socket Wrench

1 Ⓑ Leave 1/8" (3 mm) Gap

1 Ⓐ

1 Ⓑ 1/4" (3 mm) Gap

1 Ⓐ

2

2

2
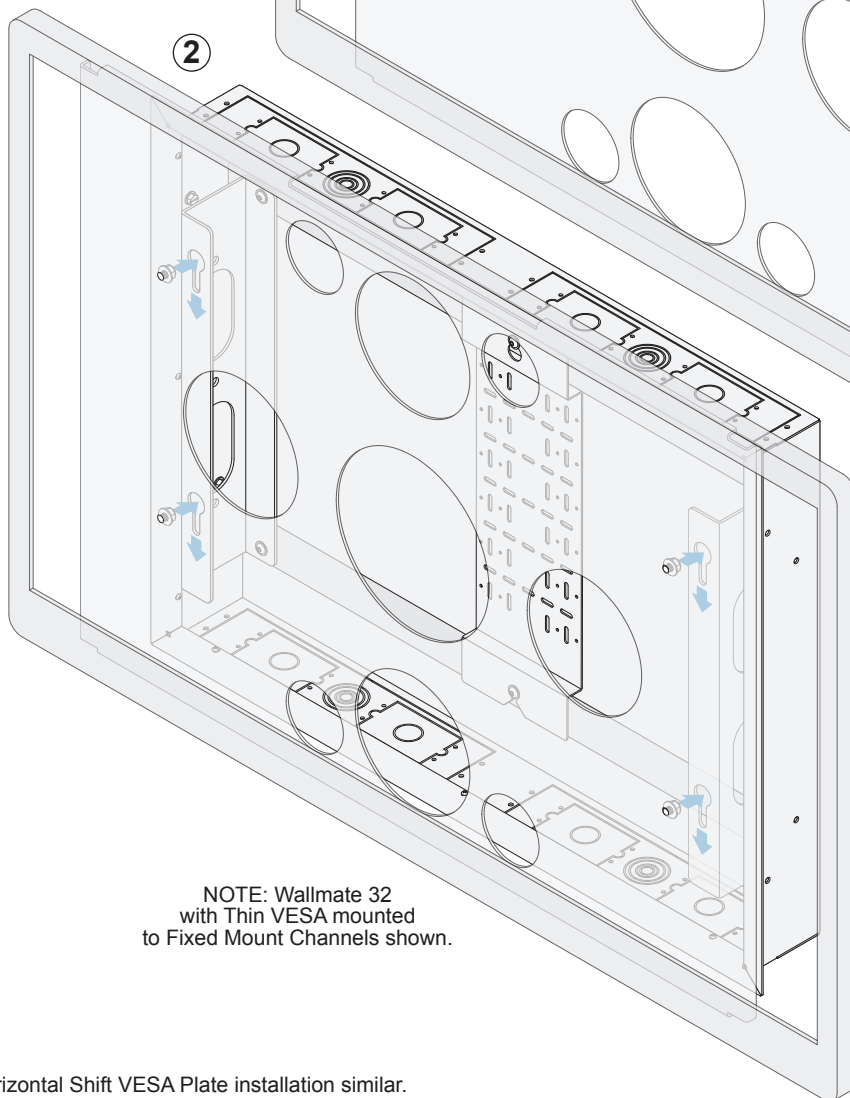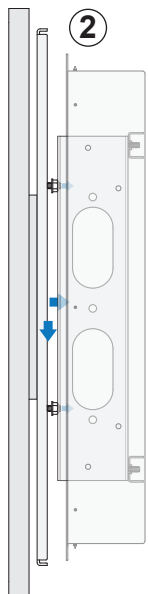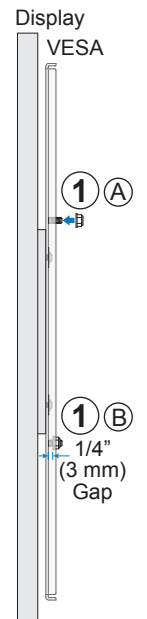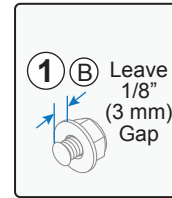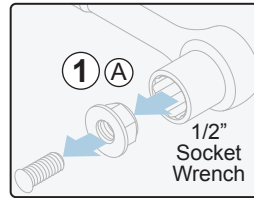
NOTE: Wallmate 32 with Thin VESA mounted to Fixed Mount Channels shown.

2 Ⓐ

2 Ⓑ
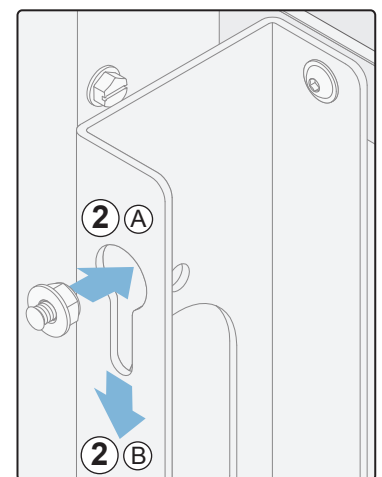
← NOTE: Horizontal Shift VESA Plate installation similar.

FINAL ADJUSTMENTS
Adjust Display to Plumb

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

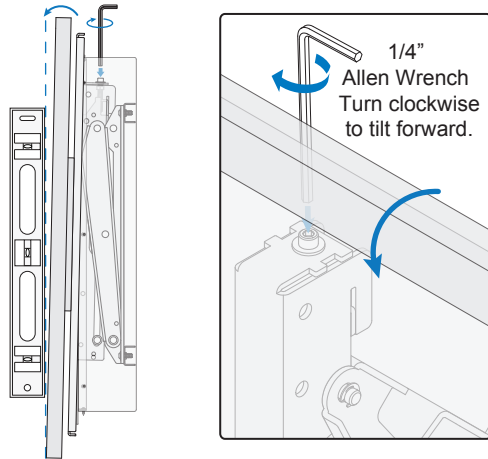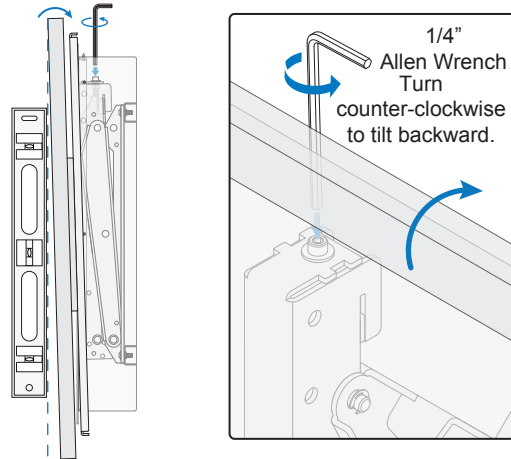CAUTION: Adjust both arms in sequence. Turning one arm too far without the other could put stress on and damage the display.

Turn X-Arm bolt clockwise to tilt display forward up to .6 degrees.

Turn X-Arm bolt counter-clockwise to tilt display backward up to .6 degrees.

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

OR

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

Open X-Arm to access bolt.

Ⓐ

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.
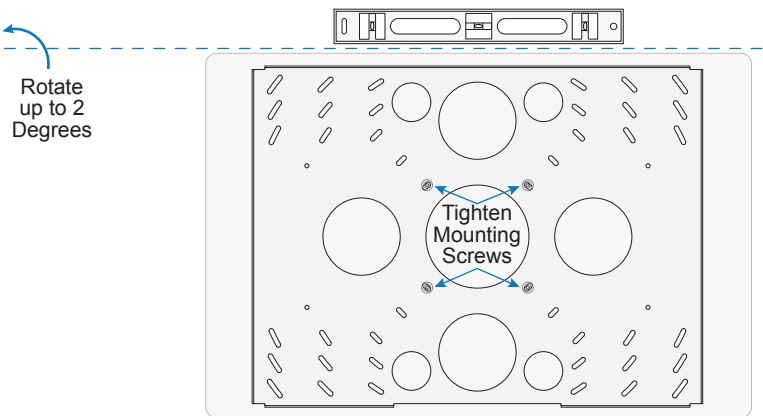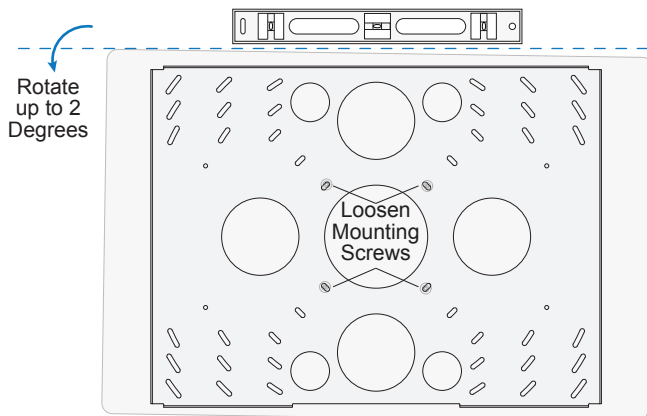
Ⓑ   Ⓑ

Close to check plumb.

Ⓒ
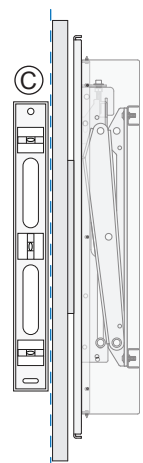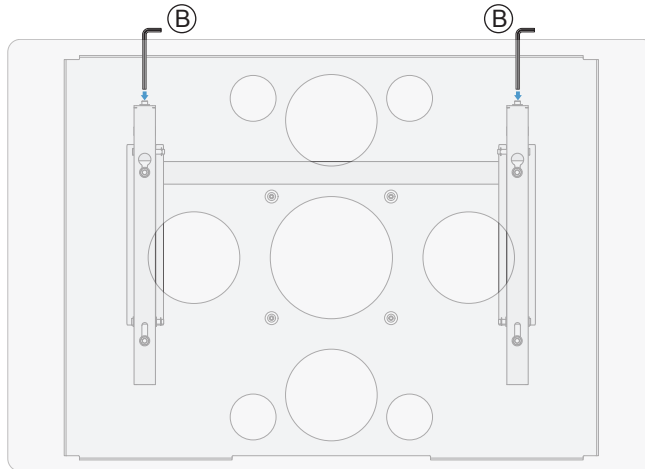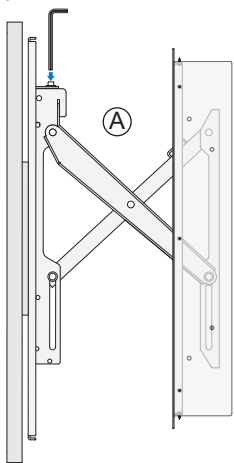
Adjust Display to Level

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

Loosen M6 or M8 screws and rotate display to level. See Page 13.

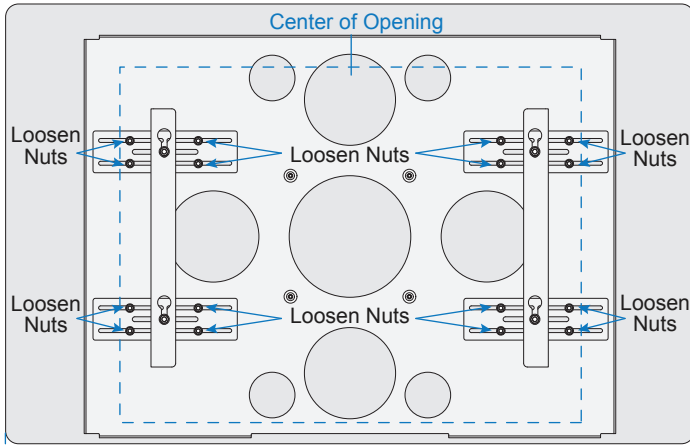Tighten screws and install display as shown on Pages 14 -15.

Rotate
up to 2
Degrees

Loosen
Mounting
Screws

Rotate
up to 2
Degrees

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 32 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