# e997
## Articulating Wall Arm

enovate
M E D I C A L

# WELCOME

The Enovate Medical e997 Articulating Wall Arm was designed to set a new standard in quality. Enovate Medical's goal is to provide a wall arm that is ready for years of use, and backed by a commitment of exemplary service and support.

## Thank you for purchasing the
## Enovate Medical e997 Articulating Wall Arm!

# TABLE OF CONTENTS

# WARNINGS

| ⚠ | Important Warnings | ⚡ | Electrical Shock Warning |
|---|---|---|---|

The above symbols represent safety warnings that require significant attention when seen on this product or in this user manual. Failure to follow these warnings could result in minor injury, major injury, or even death.

Read the entire manual before you begin.

## MOUNTING

Installer must verify that the entire wall will safely support the combined weight of all attached equipment and hardware. Improper installation of this product can cause extensive property damage or serious personal injury, either during or after installation. It is the responsibility of the installer to ensure that all applications including wood, concrete, block, brick, steel, etc. are secured properly and are in compliance with local and national building codes. California installations could require specific anchorage, and additional mounting screws. Check with local authorities for codes in your area. Other seismic states have similar regulations.

**WARNING:**
Because wall surfaces and construction methods and materials vary, it is imperative that you consult with the appropriate engineering, architectural, or construction professional to ensure that your wall computing station is mounted properly to handle the applied loads.

**ELECTRICAL SHOCK HAZARD:**
Cutting or drilling into electrical wires and cables can cause FIRE, DEATH or SERIOUS PERSONAL INJURY. Always make certain the area behind the mounting surface is free of electrical wires and cables before drilling into wall.
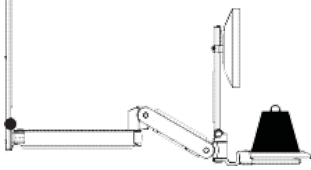
**EXPLOSION AND FIRE HAZARD:**
Drilling into gas plumbing can cause EXPLOSION, FIRE, DEATH or SERIOUS PERSONAL INJURY. Always make certain the area behind the mounting surface is free of gas, water, waste, or any other plumbing before drilling into wall.

**WARNING:**
Weight restrictions apply. See table on page 5 for more information.

| Riser Arm Part Number | If desk type is: | COMBINED WEIGHT* of equipment (monitor, AIO, printer, scanner, badge reader, etc.) must not exceed: | If Desk Type Is: | COMBINED WEIGHT* of equipment (monitor, AIO, printer, scanner, badge reader, etc.) must not exceed: |
|---|---|---|---|---|
| AM0400163 (700N light duty) | Standard | 12 lbs. | eDesk | Not Available |
| AM0400157 (850N medium duty) | Standard | 22 lbs. | eDesk | 15 lbs. |
| AM0400171 (1050N heavy duty) | Standard | 36 lbs. | eDesk | 29 lbs. |

**\*Note: The weight of the monitor or AIO must NOT exceed 20 lbs.**

# SERVICE AND REPLACEMENT

Warranty will be void if an attempt to service or replace any part of the Enovate Medical Wall Arm is made unless directed to do so through Enovate Medical approved documentation (i.e., this User Manual or other instructions). Only Enovate Medical or an Enovate-certified entity may service or replace the Enovate Medical Wall Arm components. If any component on the Enovate Medical Wall Arm is missing or damaged, the Wall Arm must not be used. Contact Enovate Medical immediately to request service.

If the unit is not working properly, please contact Enovate Medical customer service via your computer or phone at the locations shown below.
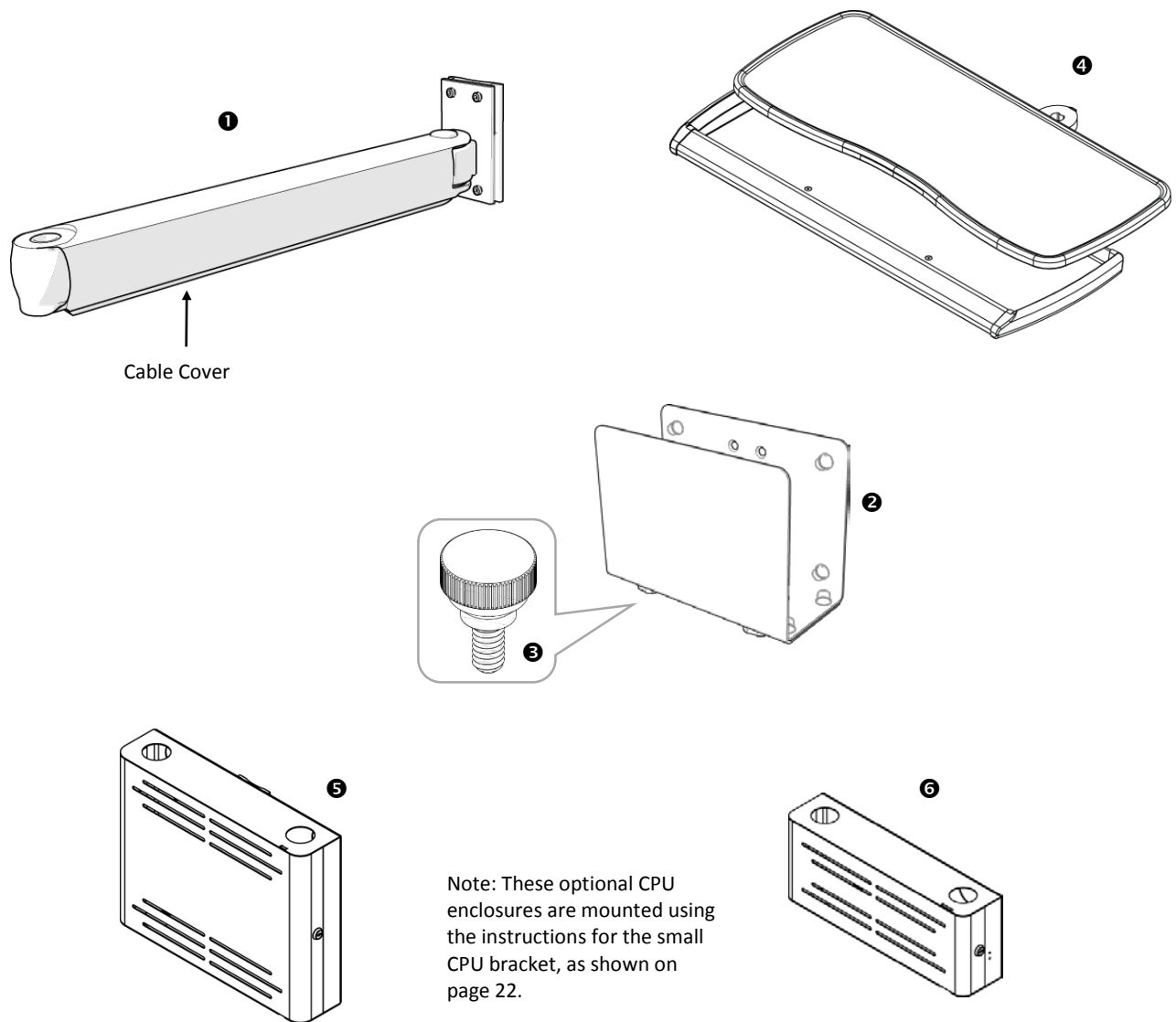
**enovatemedical.com/support**
**888.909.8930 toll free**

# COMPONENTS AND HARDWARE

VESA Plate

Bottom of
Wall Track
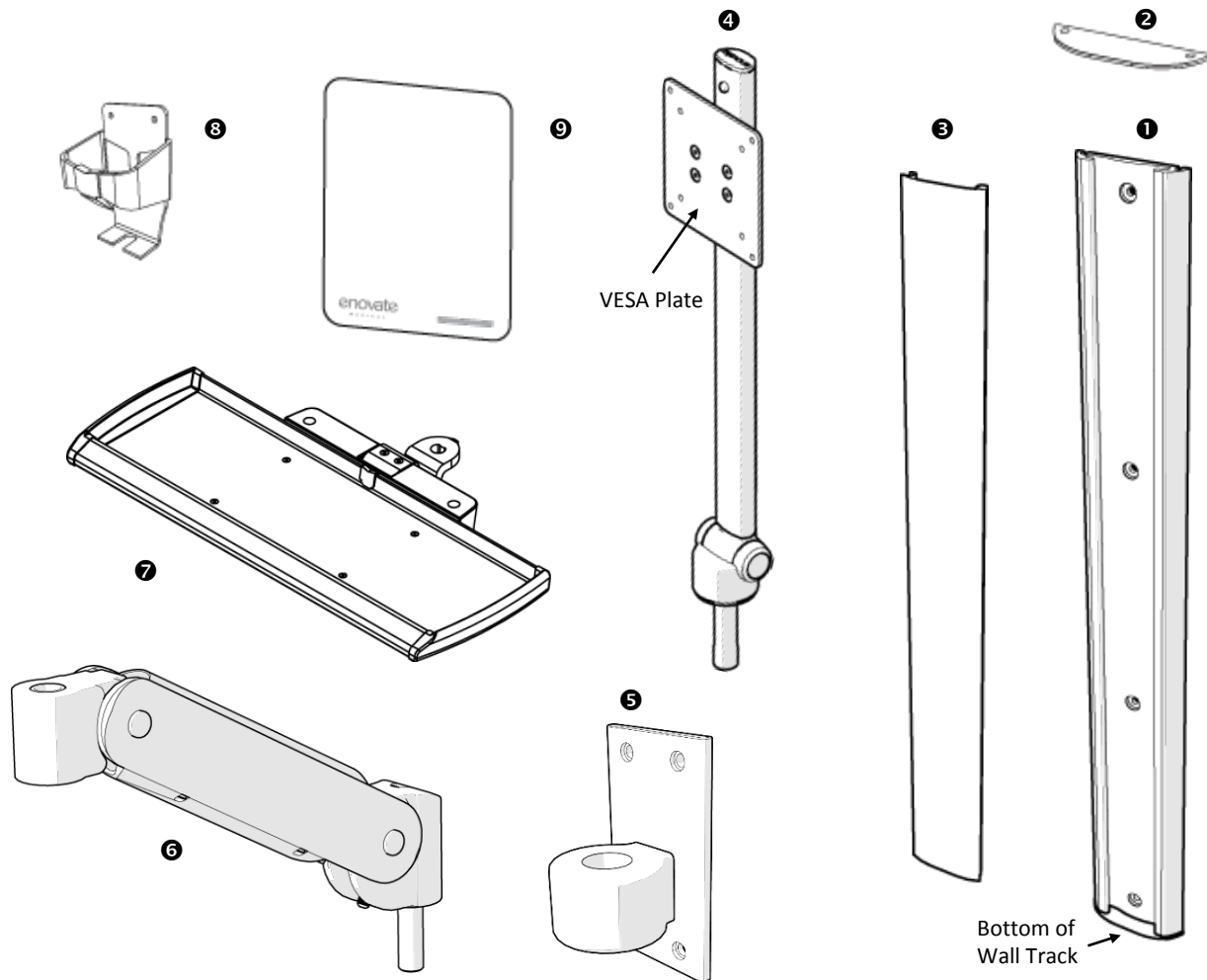
## STANDARD COMPONENTS

| | Description | Part Number(s) |
|---|---|---|
| ❶ | Wall Track (32", 42", 48") | 32" AM0200022   42" AM0200098    48" AM0200027 |
| ❷ | Wall Track End Cap (2x) | AM0700001 |
| ❸ | Wall Track Cable Cover | 32" AM0200092   42" AM0200110    48" AM0200109 |
| ❹ | Monitor Pole Assembly | AM0400003 |
| ❺ | Pivot Mount | AM0400012 |
| ❻ | Riser Arm and Cable Cover | AM0400163 (770N light duty)<br>AM0400157 (850N medium duty)<br>AM0400171 (1050N heavy duty)<br>AM0800006 (cable cover) |
| ❼ | Standard Keyboard Tray | AM0400102 |
| ❽ | Mouse Holder – Standard Tray | HC0400305 |
| ❾ | Adhesive Mouse Pad | AM0100050 |

❶

Cable Cover

❹

❷

❸

❺

❻

Note: These optional CPU enclosures are mounted using the instructions for the small CPU bracket, as shown on page 22.

## OPTIONAL COMPONENTS

|   | Description | Part Number(s) |
|---|---|---|
| ❶ | Extension Arm and Cable Cover | AM0400007 (arm) AM0200090 (cable cover) |
| ❷ | Small CPU Bracket | AM0400030 |
| ❸ | CPU Bracket Thumb Screw | AM0100039 |
| ❹ | eDesk | AM0400100 |
| ❺ | Large Locking CPU Enclosure Box | HC0400392 |
| ❻ | Small Locking CPU Enclosure Box | HC0400884 |

# HARDWARE INCLUDED

See page 31 for parts list.
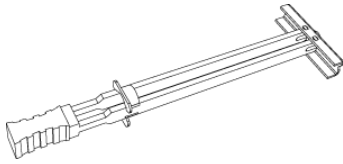
**6-8x***
SNAPTOGGLE® Anchor
Part WS0900200
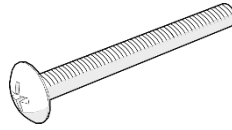
**6-8x***
1/4" 20 x 2 1/2"
Cross Drive Metal Screw
(for use with SNAPTOGGLE
installations)
Part CR-PHMS 1/4-20 x 2.5 x 2.5 ZNC
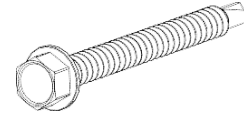
**6-8x***
1/4" 14 x 2 1/2"
Hex Head Self Tapping Metal
Screw
(for metal stud mounting only)
Part HX-WHDS .25-14 x 2.50 ZNC
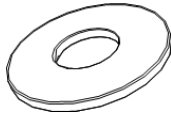
**2x**
Plastic Washer
Part AM0800009

**6-8x***
1/4" x 1"
Phenolic Washer
Part PH-WSH .25 x 1.0

**6-8x***
1/4" x 1"
Wide Flat Washer
Part SWFW 1/4 x 1.00
TYPE A ZNC

**1x**
3/4-10 Nylock Jam
Nut
Part 9114772

**4x**
10-24 x 1/2"
Button Head Screw
Part BHSC 10-24 x .500 x .500 SS

**4x**
M4 x 16mm
Pan Head Screw
Part CR-PHMS M4 x 0.7 x
16 ZNC

**4x**
#10 x 1/4"
Standoff
Part HC0100167
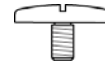
**1x**
**(Pre-installed on the riser
arm)**
Large Slotted Pan
Head Screw
Part AM0700047

**1 length**
Cable Loom
Part P0000119
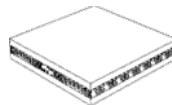
**4x**
Dual Lock Pads
Part P0000050

Cable tie
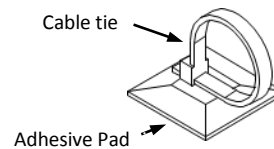
Adhesive Pad

**5x**
**(Shown with cable tie)**
Cable Tie Adhesive Pad
Part WS0900092

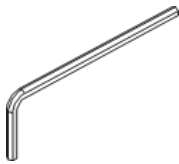**\* Quantity varies by wall track length installed.**

# TOOLS NEEDED
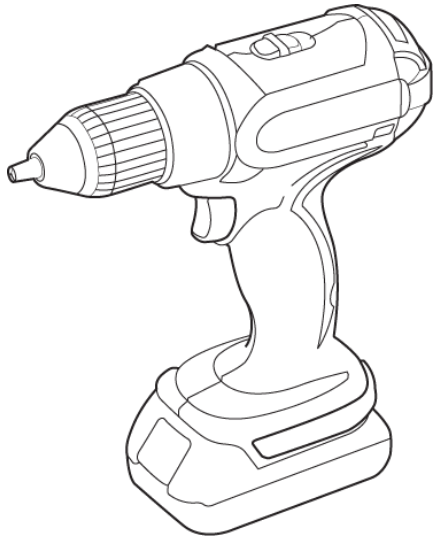
**Drill**                    **Level**                    **Pencil**
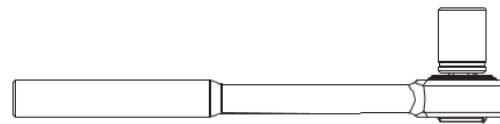
**1/8"**          **4mm**          **3/16"**          **5/16"**
**Allen Wrench**  **Allen Wrench**  **Allen Wrench**  **Allen Wrench**

**3/8" Drive Socket Wrench**
**1/2" Socket**

**Tape Measure**
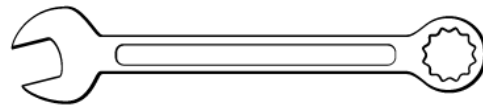
**1 1/16" Combination Boxed/Open End Wrench**
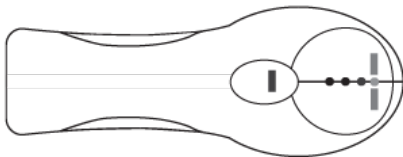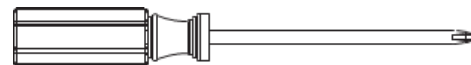
**Phillips Screwdriver**

**Stud Finder**
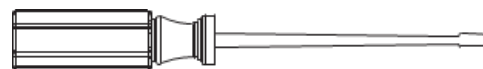
**Flat Head Screwdriver**

# MOUNTING

The following procedures must be performed as described to ensure proper installation.

**NOTE: <u>Always</u> mount the e997 to a wall stud.**

## MOUNTING HEIGHT DIAGRAM



Note: Maximum vertical riser arm movement is 14 inches.
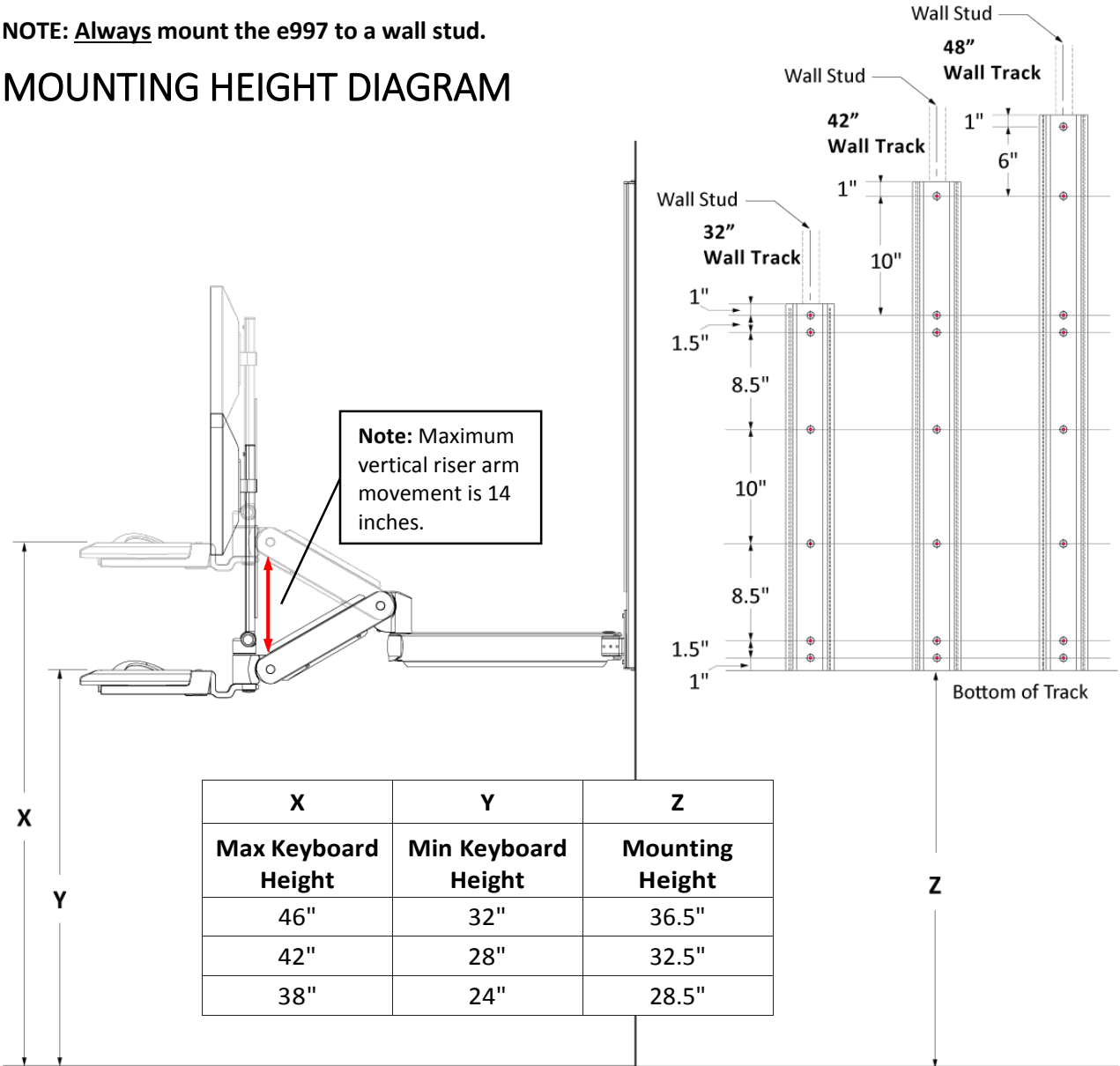
| X | Y | Z |
|---|---|---|
| Max Keyboard Height | Min Keyboard Height | Mounting Height |
| 46" | 32" | 36.5" |
| 42" | 28" | 32.5" |
| 38" | 24" | 28.5" |

| Item | Part Number | SNAPTOGGLE® Quantity |
|---|---|---|
| 48" Wall Track | AM0200027 | 8 |
| 48" Wall Track Cable Cover | AM0200109 | |
| 42" Wall Track | AM0200098 | 7 |
| 42" Wall Track Cable Cover | AM0200110 | |
| 32" Wall Track | AM0200022 | 6 |
| 32" Wall Track Cable Cover | AM0200092 | |

# 20 GAGE (.035") OR HEAVIER METAL STUD
# (Preferred method of mounting)

**STEP 1**
For easier installation, install the Wall Track End Cap to the wall track using two 10-24 x 1/2" Button Head Screws before mounting the track to the wall.

**STEP 2**
Determine the desired keyboard height. Use the chart on page 10 for standard keyboard heights; adjust vertical dimensions as required for desired keyboard height.

**STEP 3**
Locate the exact center line of the wall stud where the track will be mounted.

**STEP 4**
Using a level, mark the hole locations for the appropriate track size using the dimensions to the left (make note of the bottom of the track).

**STEP 5**
Place the track against the wall and secure with the Wide Flat Washer, the Phenolic Washer and the Hex Head Self Tapping Metal Screw. **DO NOT DRILL PILOT HOLES.**

**STEP 6**
**Ensure track is level before fully tightening screws.**
**DO NOT OVER TIGHTEN SCREWS.**
For stripped holes in metal studs, see page 13.
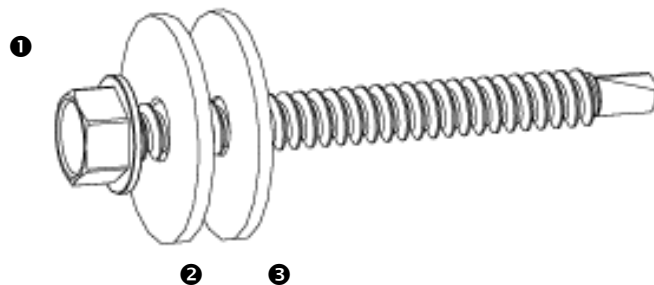


| | Description | Part Number |
|---|---|---|
| ❶ | 1/4-14 x 2 1/2"<br>Hex Head Self Tapping Metal Screw | HX-WHDS .25-14 x 2.5 ZNC |
| ❷ | Wide Flat Washer | SWFW 1/4 x 1.00 TYPE A ZNC |
| ❸ | Phenolic Washer | PH-WSH .25 x 1.0 |

**Note: When mounting in California, please refer to OSHPD code OPA 26710.**

# WOOD STUD MOUNTING
# (Hardware not included)

**STEP 1**
For easier installation, install the Wall Track End Cap to the wall track using two 10-24 x 1/2" Button Head Screws before mounting the track to the wall.

**STEP 2**
Determine the desired keyboard height. Use the chart on page 10 for standard keyboard heights; adjust vertical dimensions as required for desired keyboard height.

**STEP 3**
Locate the exact center line of the wall stud where the track will be mounted.

**STEP 4**
Drill a 3/16" pilot hole into each of the marked mounting locations. Use the Wide Flat Washer, Phenolic Washer, and the Hex Head Wood Screw to secure the track to the wall.

**STEP 5**
**Ensure wall track is level before fully tightening screws.**



|   | Description | Part Number |
|---|---|---|
| ❶ | 1/4-14 x 4" Hex Head Wood Screw* | HX-WLAG.25 x 4.0 ZNC |
| ❷ | Wide Flat Washer | SWFW 1/4 x 1.00 TYPE A ZNC |
| ❸ | Phenolic Washer | PH-WSH .25 x 1.0 |
| **\* This part may be ordered from Enovate Medical. Please see PARTS ORDERING information on page 31.** | | |

# FOR STRIPPED HOLES IN METAL STUDS

**STEP 1**
For easier installation, install the Wall Track End Cap to the wall track using two 10-24 x 1/2" Button Head Screws before mounting the track to the wall.

**STEP 2**
Determine the desired keyboard height. Use the chart on page 10 for standard keyboard heights; adjust vertical dimensions as required for desired keyboard height.

**STEP 3**
Locate the exact center line of the wall stud where the track will be mounted.

**STEP 4**
Drill a 1/2" hole through the center of the stripped hole and install SNAPTOGGLE® brand hollow wall anchors. Follow the wall anchor installation instructions shown next.

**SNAPTOGGLE STEP A**
Drill a 1/2" hole through center of metal stud. Hold metal channel flat alongside plastic straps and slide channel through hole.
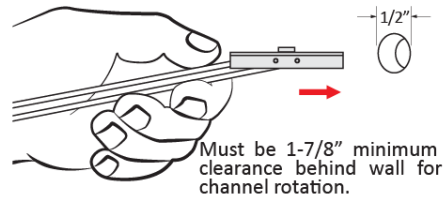
**SNAPTOGGLE STEP B**
Hold ends of straps between thumb and forefinger and pull toward you until channel rests flush behind wall. Slide plastic cap along straps with other hand until flange of cap is flush with wall.
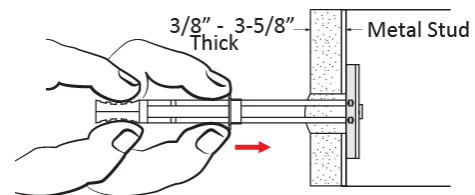
**SNAPTOGGLE STEP C**
Snap straps at wall by pushing side to side, snapping off straps level with flange of cap.
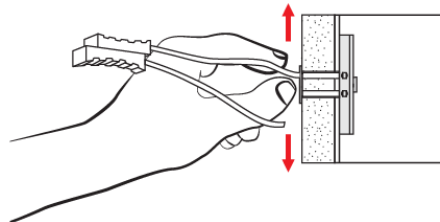
Patented under one or more of the following U.S. Patent Nos.: 4,993,901; 5,028,186; 5,161,296; 5,938,385; 6,161,999; 7,144,212; 7,320,569; and foreign counterparts thereof and of 4,650,386 and 4,752,170. Other patents pending. TOGGLER and typeface, symbol, TA, TB, TC, TH, ALLIGATOR, SNAPTOGGLE, and SnapSkru are worldwide registered trademarks of Mechanical Plastics Corp.

**STEP 5**
**Ensure track is level before fully tightening.**
Tighten with cross drive 1/4" 20 x 2 1/2" screws.
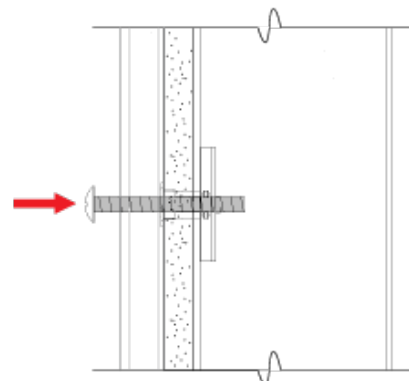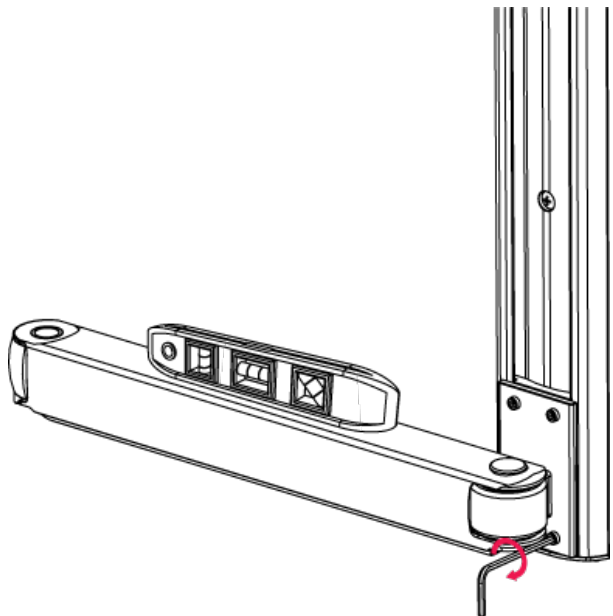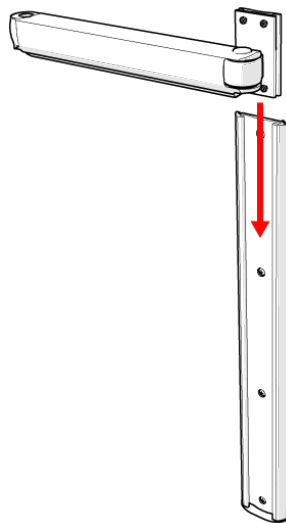
# ASSEMBLY

## STEP 1

**(NON-EXTENSION ARM)**
Slide pivot mount to bottom of wall track (you may need to pull the pivot mount towards you while sliding); level and secure screws tightly with 3/16" Allen wrench.
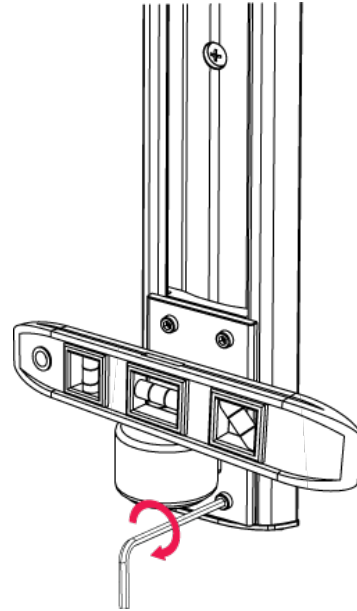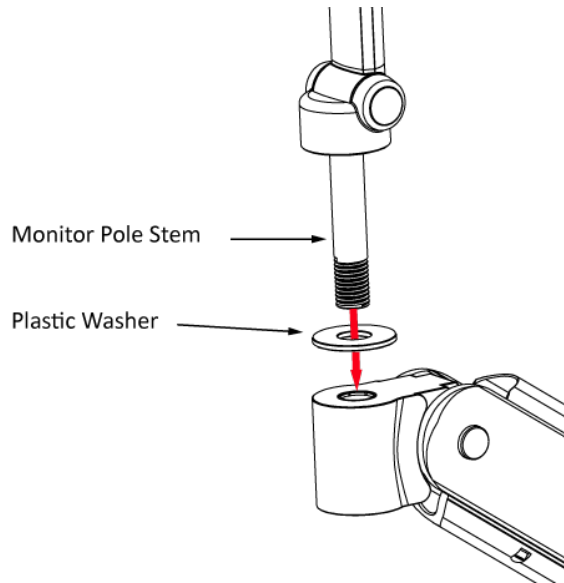
**(EXTENSION ARM)**
Slide pivot mount with extension arm to bottom of wall track; level and secure screws tightly with 3/16" Allen wrench.

## STEP 2

Working on a flat surface, insert monitor pole stem through plastic washer into riser arm.

Monitor Pole Stem

Plastic Washer

## STEP 3

Place the remaining plastic washer on to the monitor pole stem and insert through the keyboard tray pivot mount. After assembly is complete, secure with the 3/4-10 Nylock Jam Nut (part 9114772). Tighten the nut to the point where there is no space between the washers, but not to the point where movement is inhibited.

**NOTE:**
When tightening the 3/4-10 Nylock Jam Nut, hold the monitor pole straight with the keyboard tray (or eDesk). This will ensure the monitor is aligned correctly with the keyboard tray (or eDesk).

Monitor Pole Stem

Plastic Washer

Nylock Jam Nut
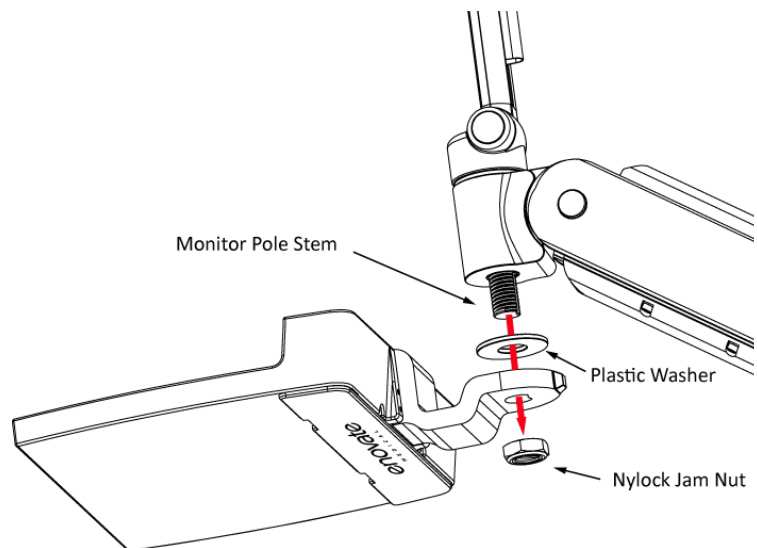
# STEP 4

**(NON-EXTENSION ARM)**
Insert riser arm stem through plastic washer into pivot mount, and secure with large slotted pan head screw.

Riser Arm Stem

Plastic Washer

Large Slotted Pan Head Screw
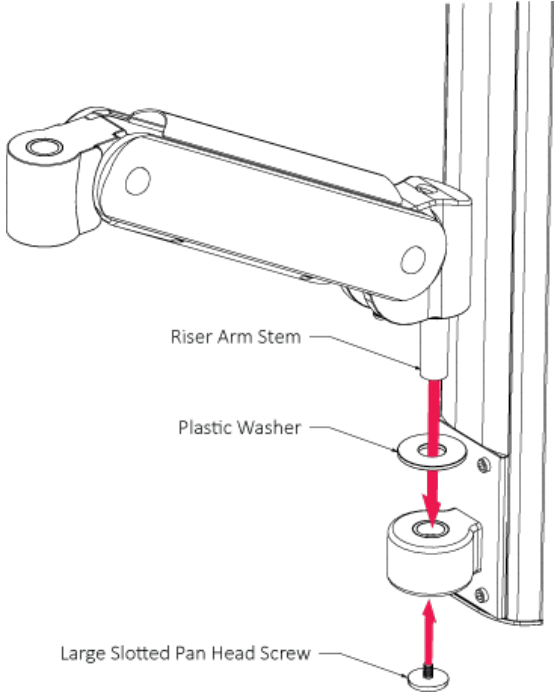
**(EXTENSION ARM)**
Insert riser arm stem through plastic washer into extension arm and secure with large slotted pan head screw.

Riser Arm Stem

Plastic Washer

Large Slotted Pan Head Screw
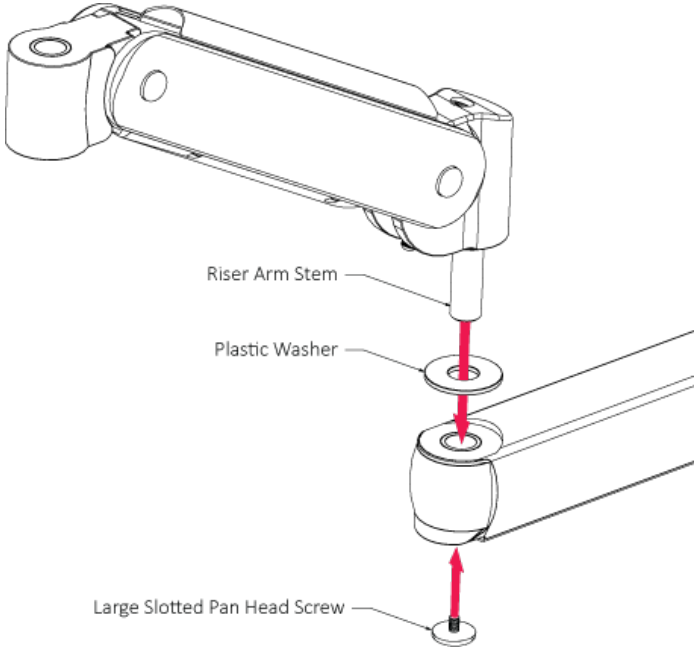
# MOUNTING THE MONITOR

**Note: To maintain monitor tilt action, the weight of the mounted monitor must not exceed 12 lbs. Monitors weighing between 12 lbs. and 20 lbs. (maximum weight) must be mounted in a fixed position with no tilt option.**

**STEP 1**
Loosely insert two M4 x 16mm screws with standoffs into the top two holes of the VESA pattern on the back of the monitor.
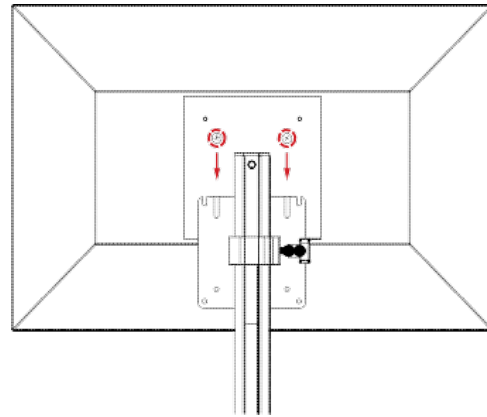
**STEP 2**
Align screws with the quick mount slots in the monitor pole VESA plate. Slide the monitor into place and tighten the screws.

**STEP 3**
Insert the additional two M4 x 16mm screws and standoffs into the bottom two holes of the monitor pole VESA plate to properly secure the monitor.
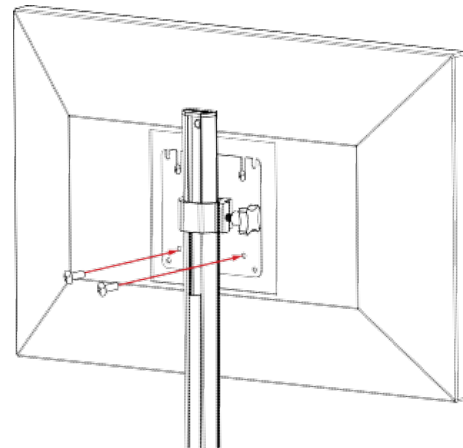
**NOTE:**
Use the (4) #10 Standoffs (if needed) to compensate for the extra-long monitor screws.

**ADHESIVE MOUSE PAD**
Place the adhesive mouse pad in the far left or right of the keyboard tray before mounting the keyboard.

**MOUNTING THE KEYBOARD**
Mount keyboard to keyboard tray using dual lock pads provided.

Dual lock pad
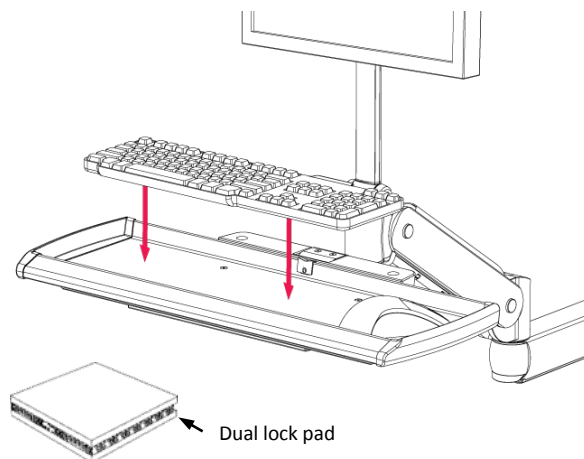
# CABLE MANAGEMENT

## STANDARD KEYBOARD CABLE MANAGEMENT



Cable Tie Adhesive Pad

Cable Management Insert
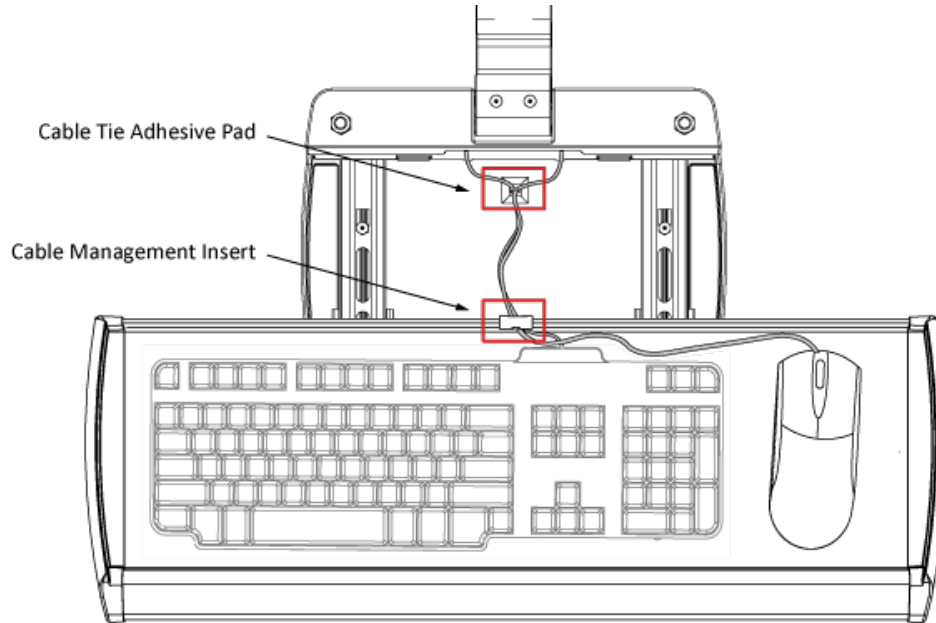
**STEP 1**
Remove the plastic cover plate and the rubber cable management insert. Run the mouse and keyboard cables through the keyboard notch, letting them hang out of the bottom of the keyboard tray.

Keyboard Tray Table Notch
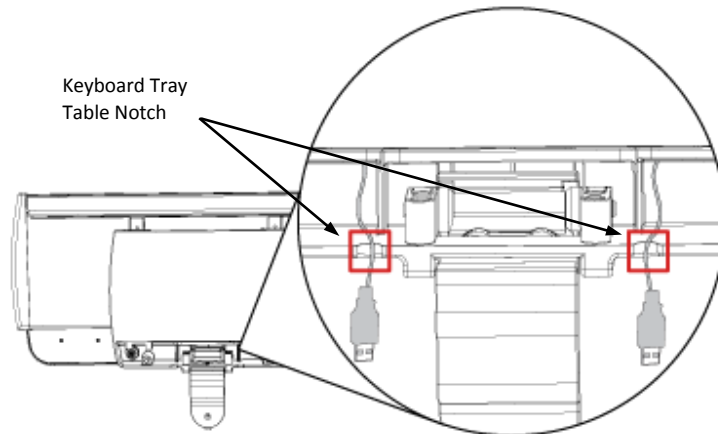


**STEP 2**
Replace the rubber cable management insert and plastic cover plate.
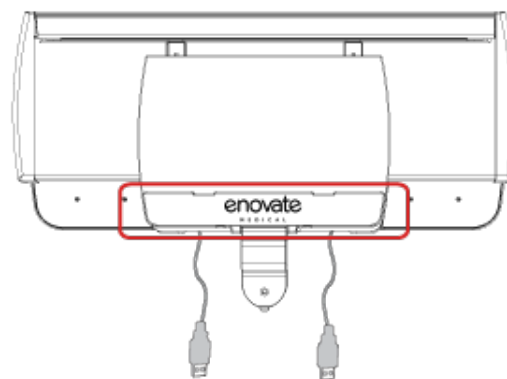
# eDESK CABLE MANAGEMENT

**STEP 1**
Extend keyboard tray.

**STEP 2**
Push the keyboard tray release tabs to the right and remove the keyboard tray.
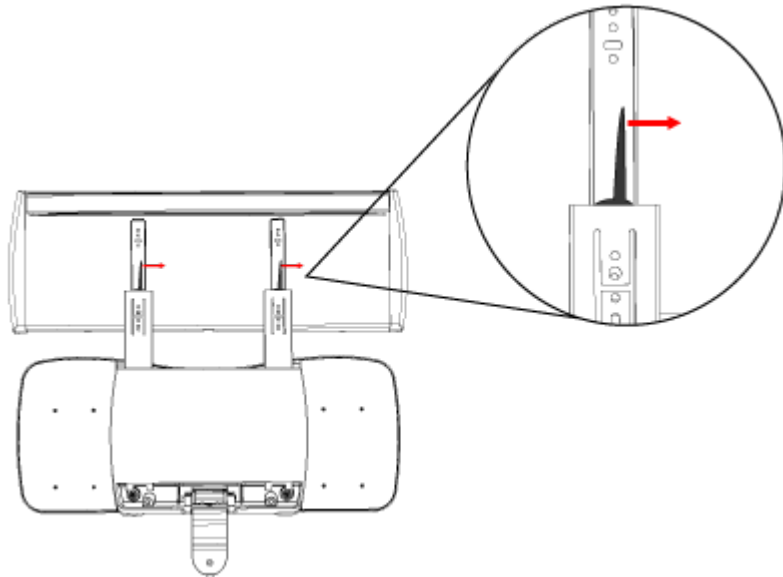
**STEP 3**
Place adhesive pad with cable tie into place as shown.

**STEP 4**
Lay the mouse and keyboard cables into place and allow the ends of the cables to hang out of the bottom of the eDesk.

Cable Tie Adhesive Pad
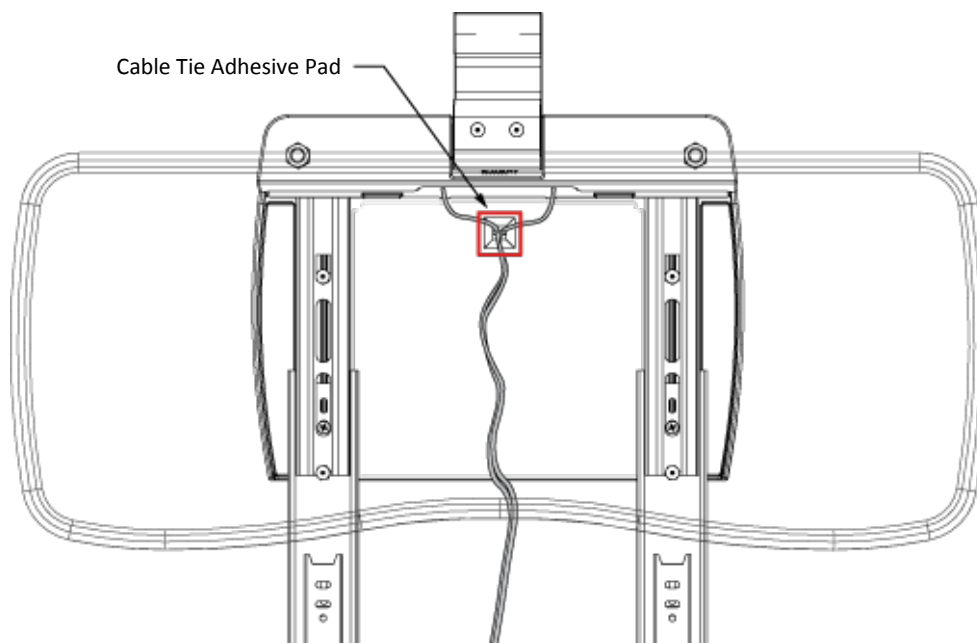
## STEP 5

**Tie cables into place. Take care to leave the appropriate amount of slack in the cables to open and close the keyboard tray properly.**

**Note:** It is important to pull the keyboard tray to the fully extended position (54") during the cable management installation. This will allow adequate cable length to ensure that the keyboard functions correctly.

Keyboard Tray
Table Notch
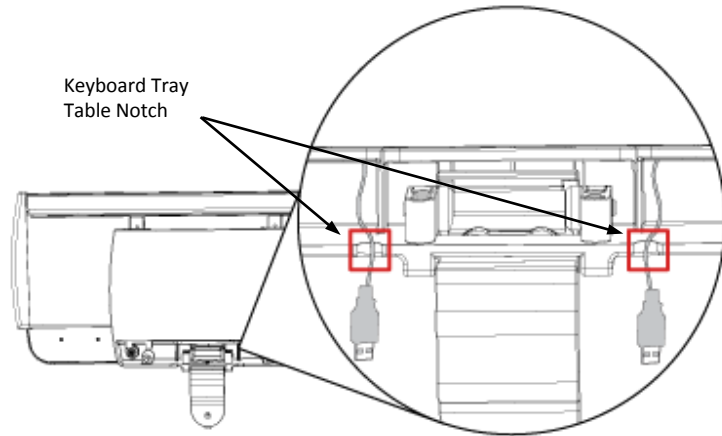
## STEP 6

Replace the keyboard tray and place the mouse and keyboard into place.

## STEP 7

Run the mouse and keyboard cables through the keyboard notch and replace the rubber keyboard cable management insert.

Cable Tie Adhesive Pad

Cable Management Insert
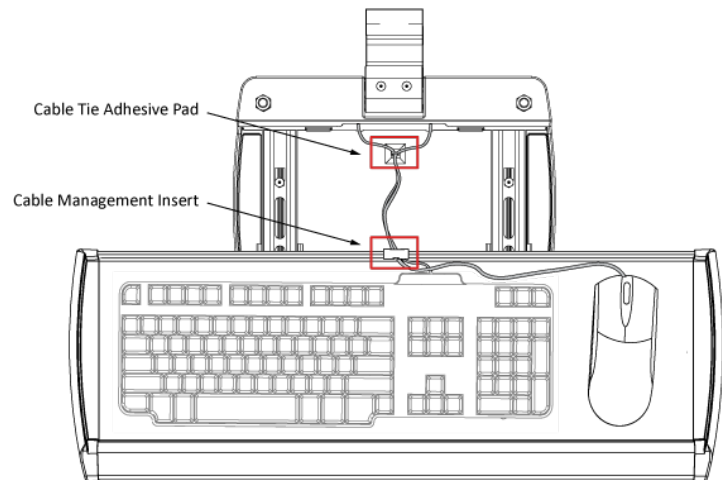
## STEP 8

Replace the plastic cover plate.

enovate
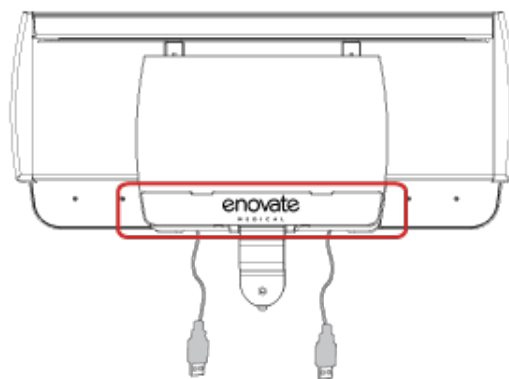
# RISER ARM CABLE MANAGEMENT

**STEP 1**
Run video and power cables down monitor pole and riser arm. Also run mouse and keyboard cables into riser arm. Snap cable covers into place. Install cable loom to the cables that are exposed between the riser and the extension arm.

Monitor Pole Cable Cover

Riser Arm Cable Cover

Mouse Cable Exit
(Keyboard Cable Exit On Opposite Side)

Cable Tie & Adhesive Pad

Cable Loom
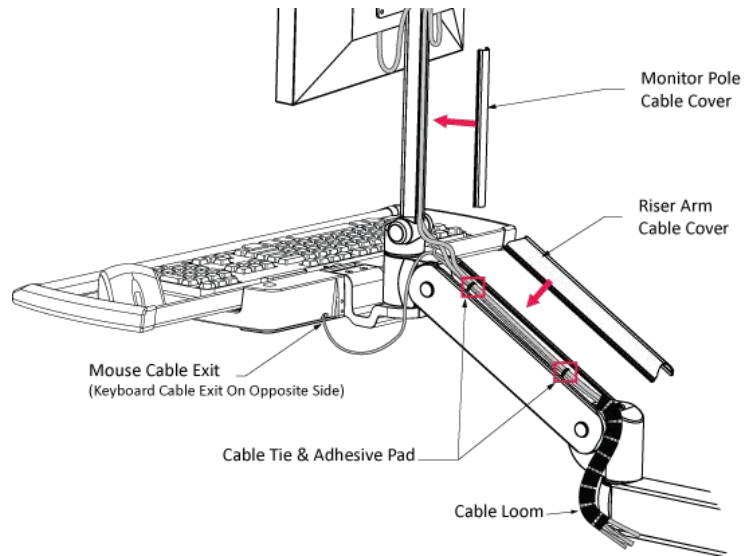
**STEP 2**
Run cables along extension arm (if applicable) and up wall track. Snap cable cover into place.

Cable Loom

Cable Tie & Adhesive Pad

Extension Arm Cable Cover
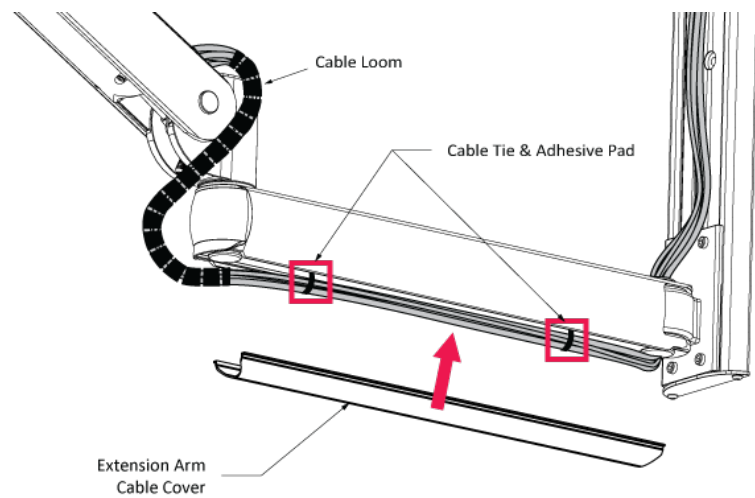
**STEP 3**
Install wall track cable cover; place a single side into place, then starting at one end, flex cover inward until opposite side snaps into place.
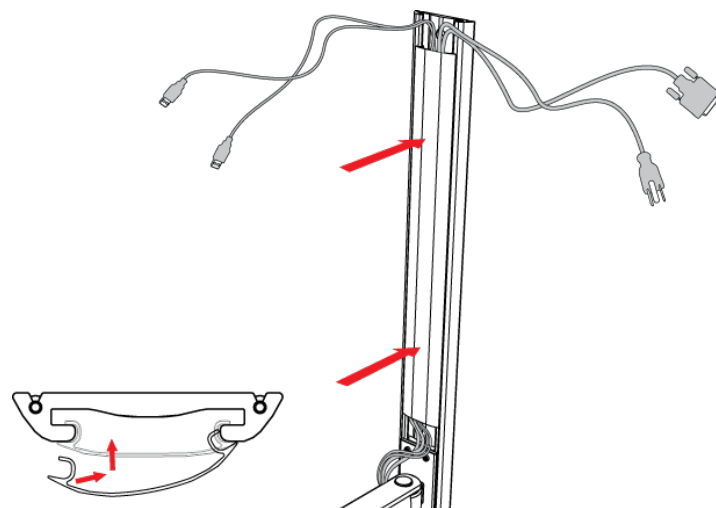
**STEP 4**

**(WITHOUT CPU BRACKET)**
Secure top plate with 10-24 x 1/2" button head screws and a 1/8" Allen wrench.
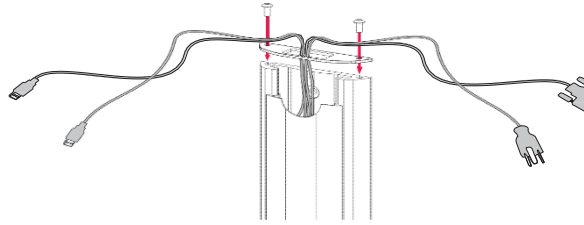


**(WITH CPU BRACKET)**
**Note:** See Optional Components, page 7, for additional CPU housing options.

Insert CPU bracket into wall track.

| Top of wall track install | Bottom of wall track install<br>Remove CPU bracket mount and replace as shown. |
|---|---|
|  |  |

**STEP 5**
Place CPU into CPU Bracket, adjust front plate until it securely holds the CPU, then tighten thumb screws.
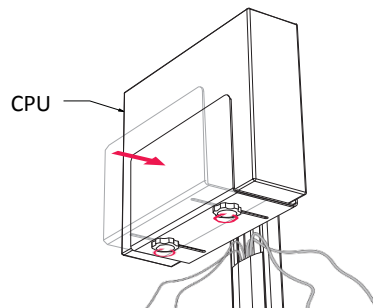
**STEP 6**
Secure top/bottom plate. The placement of this plate is determined by the location of the CPU bracket.

# ADJUSTMENTS

## RISER ARM VERTICAL TENSION ADJUSTMENT
Adjustments should be made only after all peripherals are installed.

**STEP 1**
Ensure riser arm is parallel to the floor.
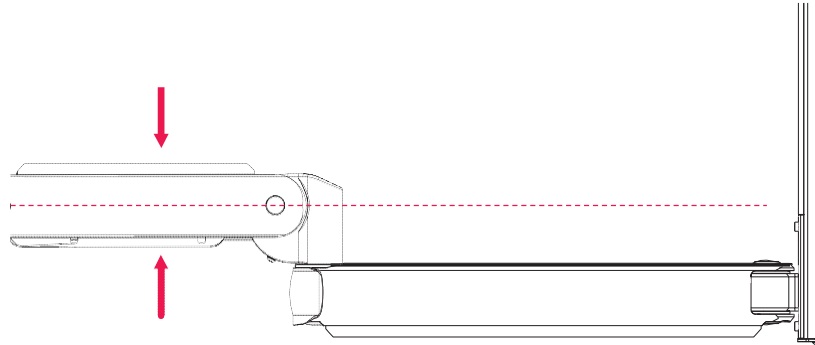
**STEP 2**
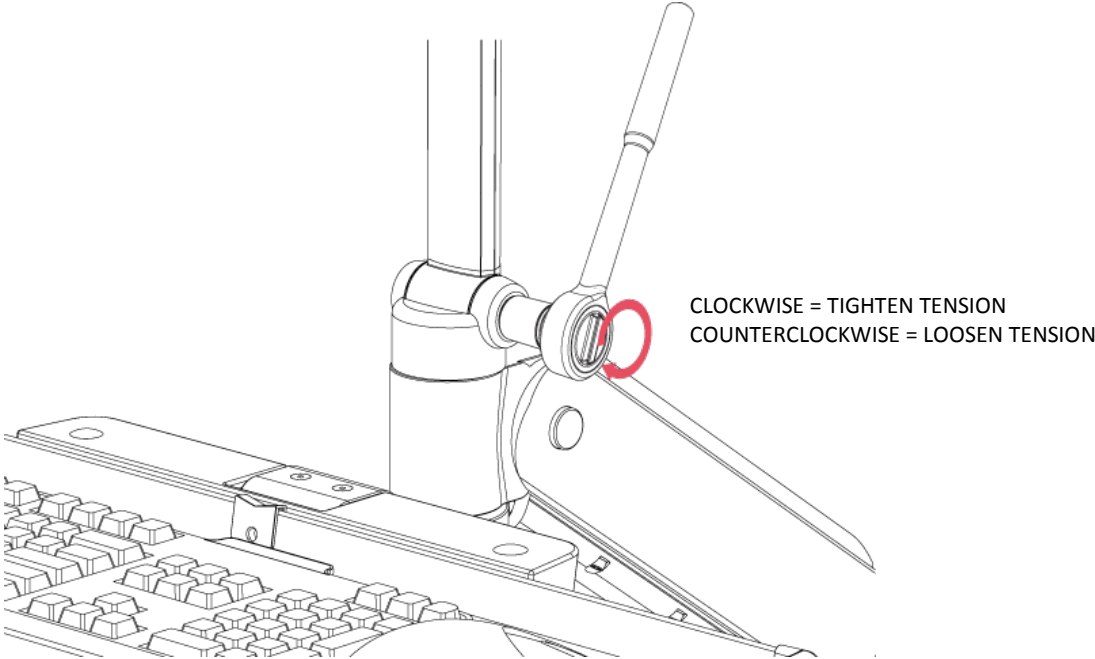Using 5/16" Allen wrench, adjust screw clockwise or counterclockwise.

CLOCKWISE = TIGHTEN TENSION
COUNTERCLOCKWISE = LOOSEN TENSION
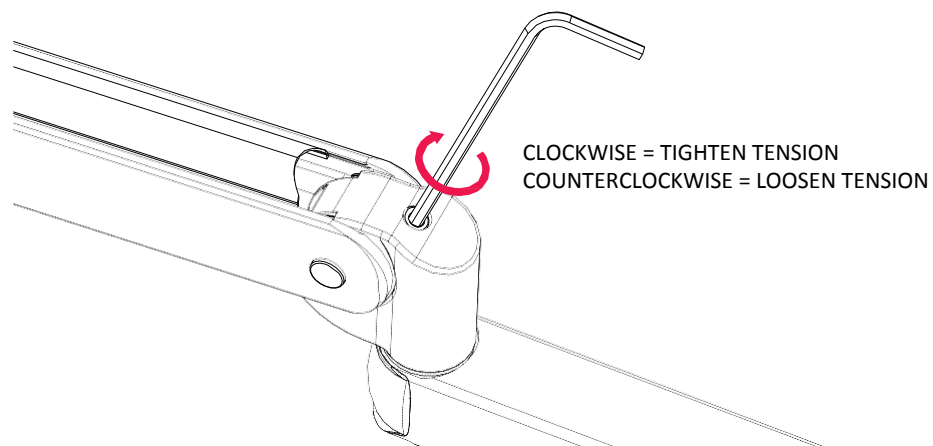
# MONITOR POLE TENSION ADJUSTMENT

**STEP 1**
Remove plastic cover.

Heyco Shorty Plug
Part AM0900017
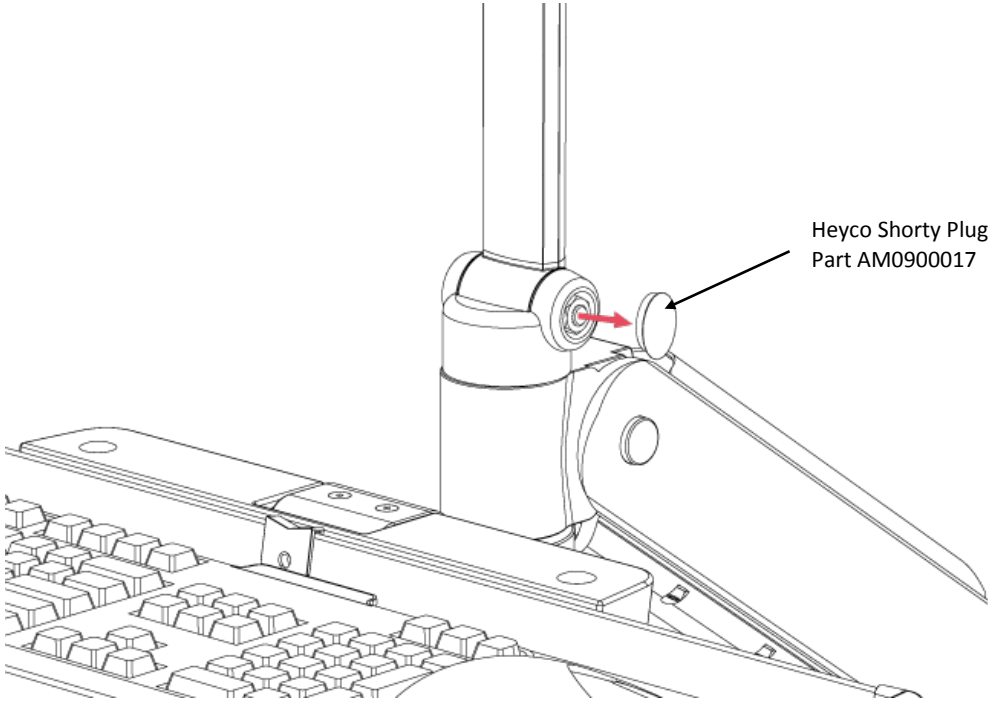
**STEP 2**
Using a 1/2" socket wrench, adjust nut to tighten or loosen tension.

CLOCKWISE = TIGHTEN TENSION
COUNTERCLOCKWISE = LOOSEN TENSION

# WORK SURFACE AND MONITOR LEVELING

**Movement when folded**                    **Movement when extended**
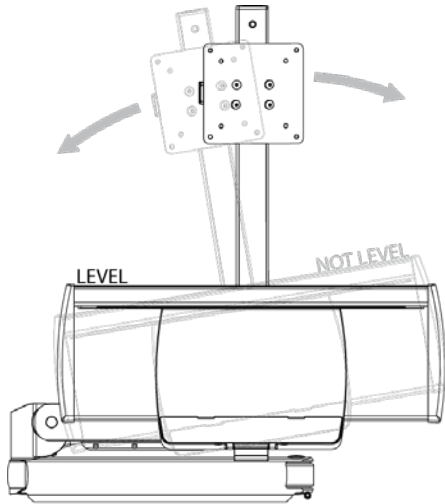
LEVEL        NOT LEVEL
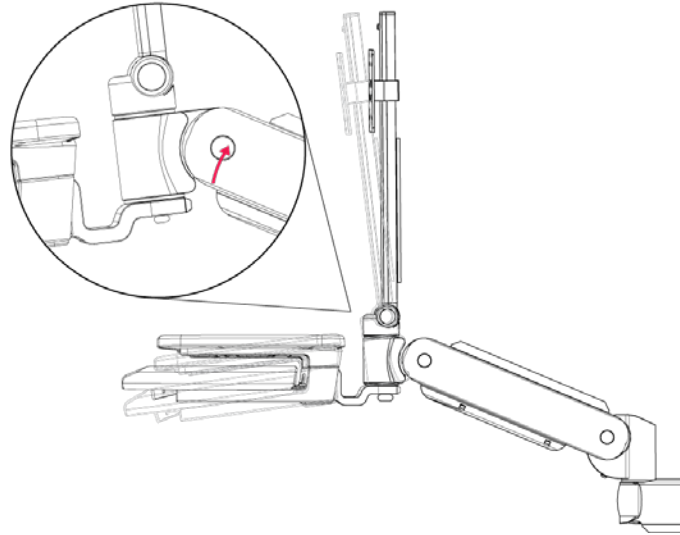
**STEP 1**
With the arm folded as close to the wall as possible, lower riser arm to access set screws.

**STEP 2**
Using a 1/8" Allen wrench, loosen set screw #1 (approximately 2 – 3 turns). This will unlock the adjustment pin.

**STEP 3**
Using a 4mm Allen wrench, turn set screw #2 to the right or left to level. When level, raise the riser arm to its highest position.

Wall

**STEP 4**
With the riser arm in its highest position, tighten set screw #1.

Set Screw #1 (1/8")

**NOTE:**
Do not over-tighten set screws.

Set Screw #2 (4mm)
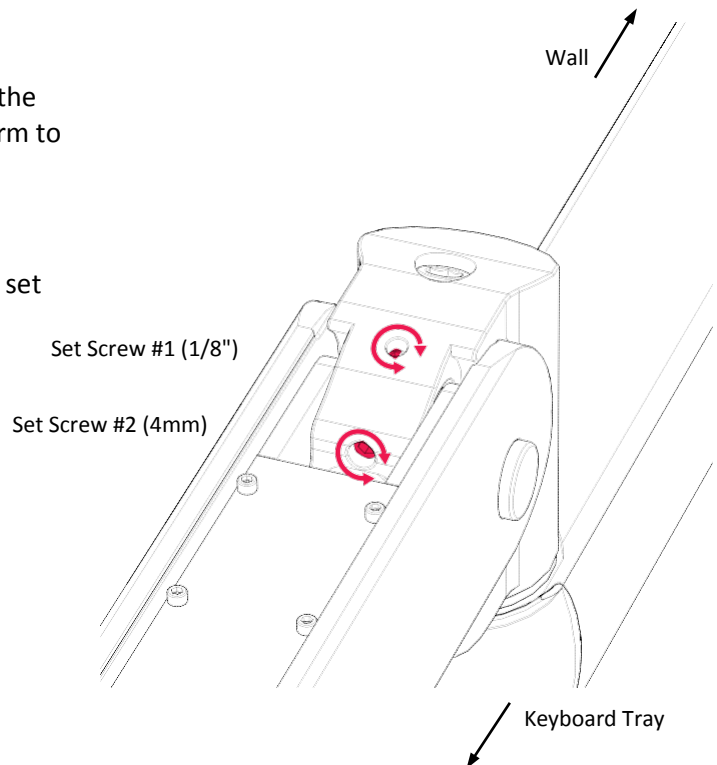
Keyboard Tray

# KEYBOARD TILT

**STEP 1**
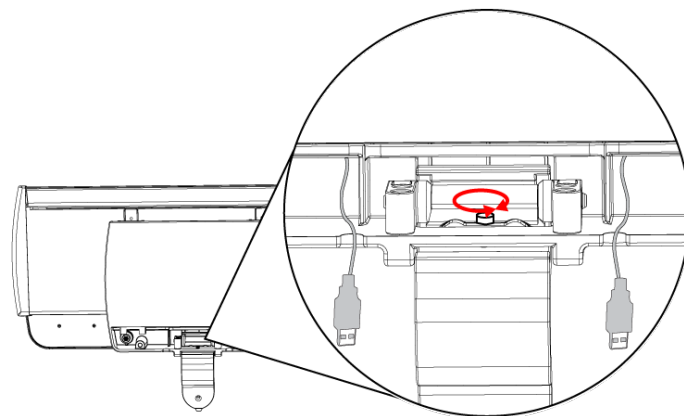Fold Standard Keyboard Tray/eDesk to stored position.

**STEP 2**
Remove plastic cover plate.
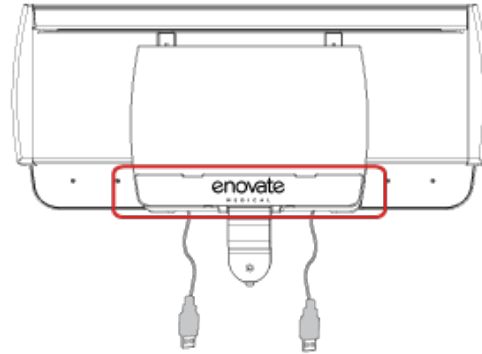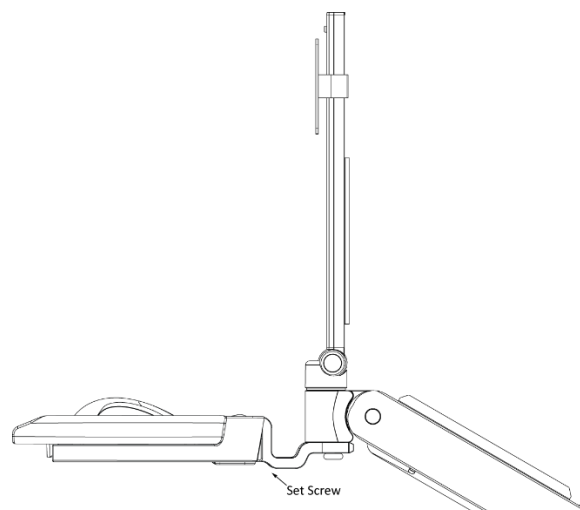
**STEP 3**
Locate the set screw.

**STEP 4**
Using a 1/8" Allen wrench, turn the set screw clockwise to the desired position.
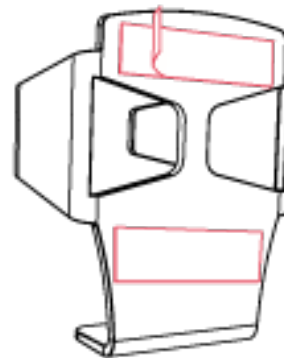
**STEP 5**
Replace plastic cover plate.

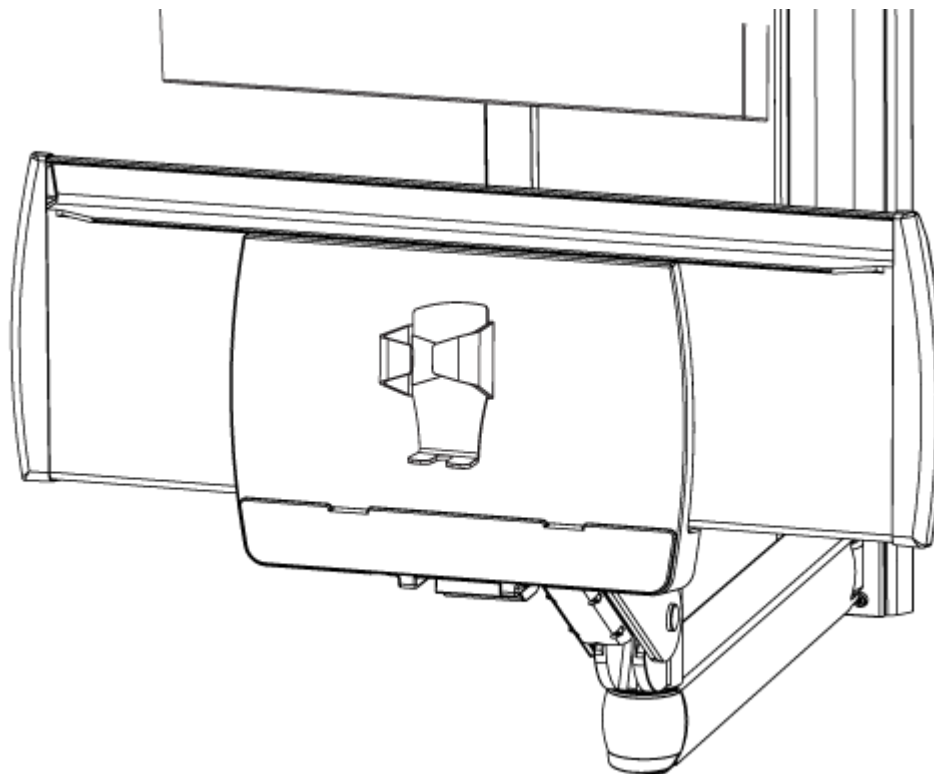Set Screw

# ACCESSORIES

## MOUNTING MOUSE HOLDER (STANDARD TRAY)

**STEP 1**
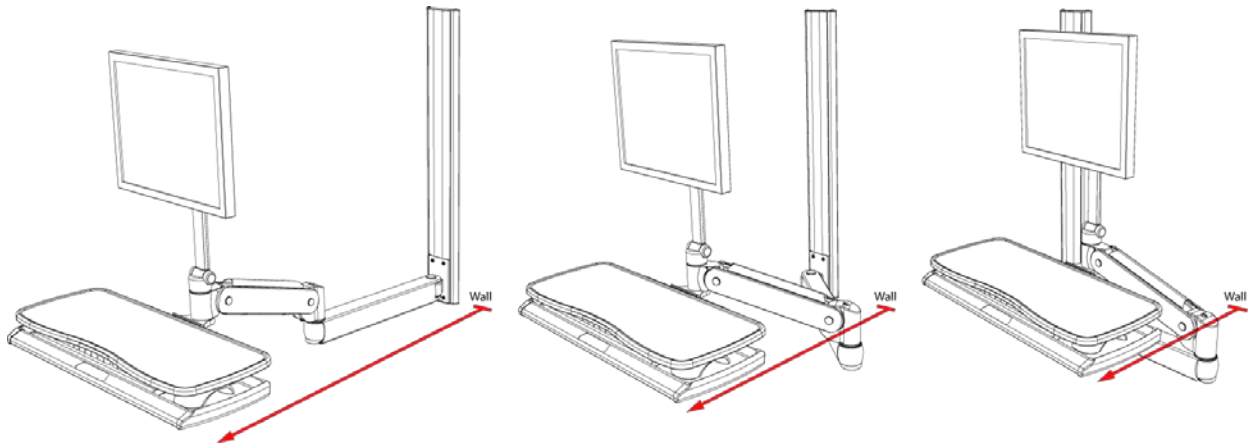Peel backing from two-sided tape on back of
mouse holder.

**STEP 2**
Raise the standard keyboard tray and attach the adhesive mouse holder (see drawing below).
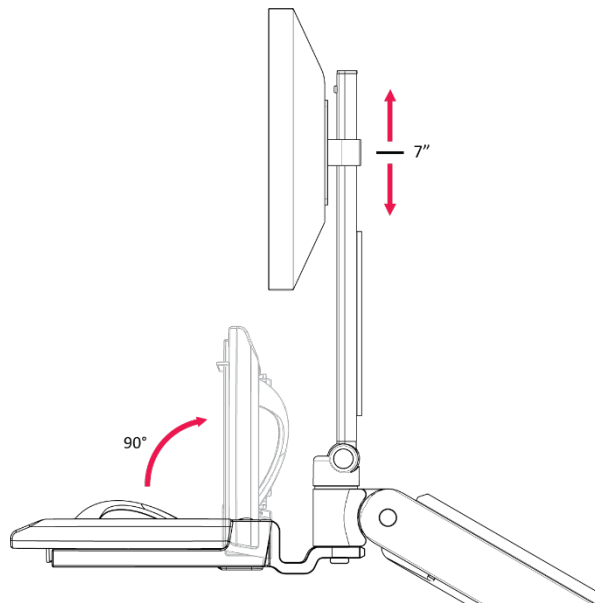
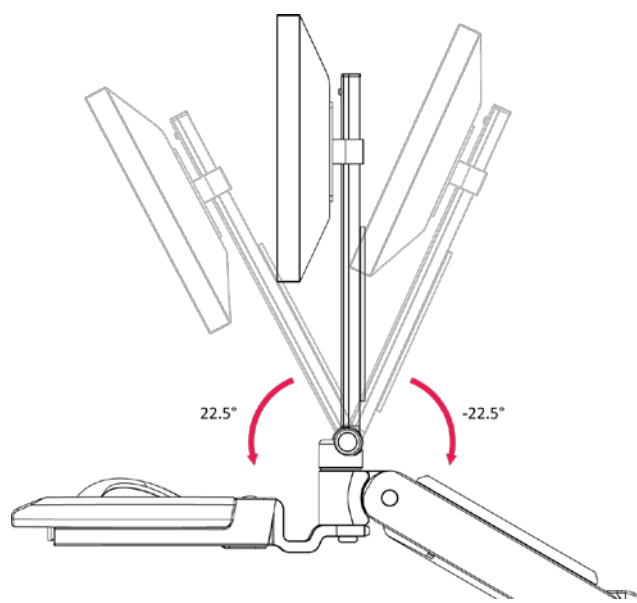# MOVEMENT

## ARM EXTENSION

Both arms extended:
**57"** from wall

One arm extended:
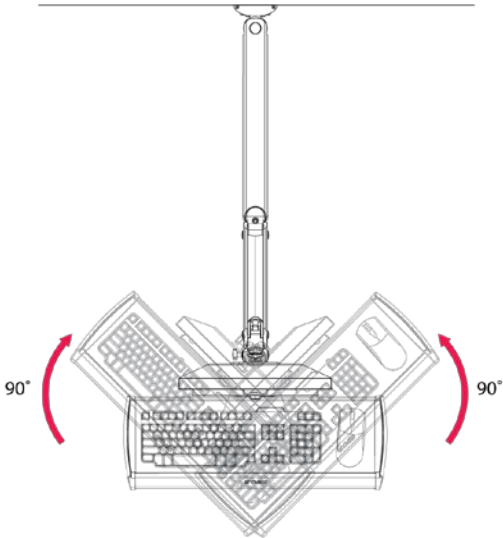**31"** from wall

No extension:
**16 3/8"** from wall

## KEYBOARD TILT

7"

90°

## MONITOR TILT*

22.5°        -22.5°
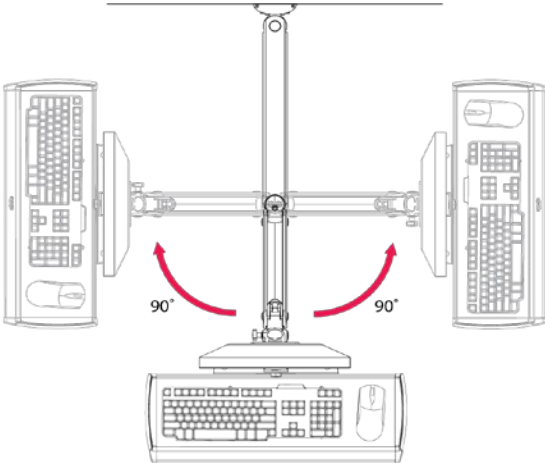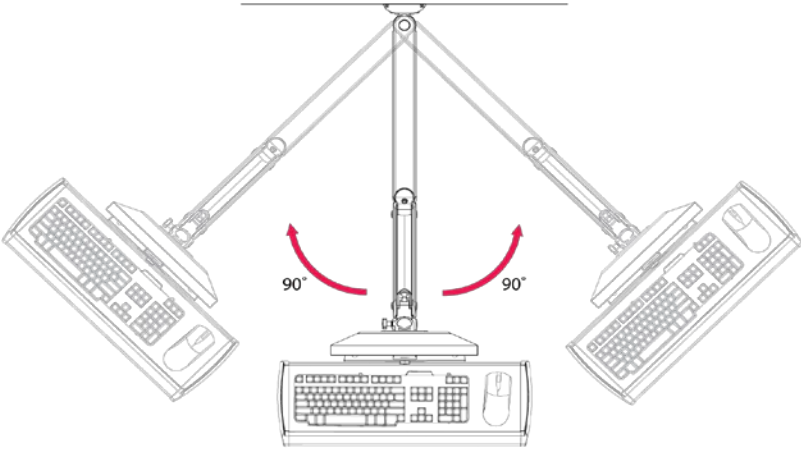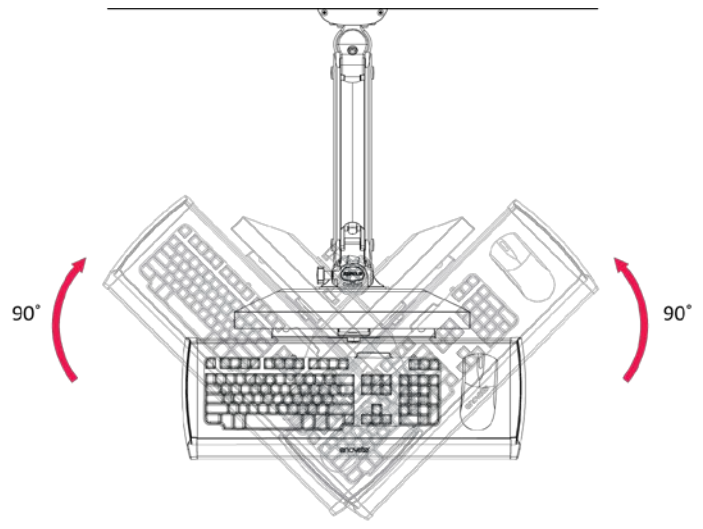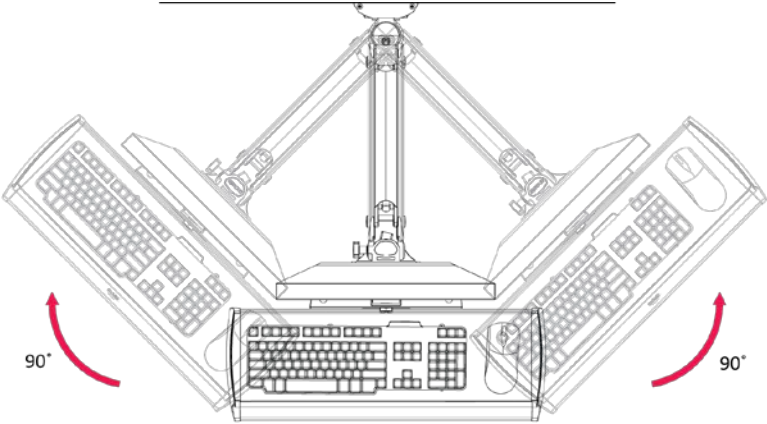
**\*Note: To maintain monitor tilt action, the weight of the mounted monitor must not exceed 12 lbs. Monitors weighing between 12 lbs. and 20 lbs. (maximum weight) must be mounted in a fixed position with no tilt option.**

# RANGE OF MOVEMENT (WITH EXTENSION ARM)

# RANGE OF MOVEMENT (NO EXTENSION ARM)

# PARTS LIST

**PARTS ORDERING:**

Contact Enovate Medical Technical Services department at (615) 896-1652, ext. 1 or (888) 909-8930, ext. 1.

| Description | | Part Number |
|---|---|---|
| Adhesive Mouse Pad | | AM0100050 |
| Cable Loom | | P0000119 |
| Cable Tie Adhesive Pad | | WS0900092 |
| CPU Brackets | | |
|     Small CPU Bracket | | AM0400030 |
|     Small Locking CPU Enclosure Box | | HC0400884 |
|     Large Locking CPU Enclosure Box | | HC0400392 |
| Dual Lock Pads | | P0000050 |
| eDesk | | AM0400100 |
| Extension Arm | | AM0400007 |
| Extension Arm Cable Cover | | AM0200090 |
| Heyco Shorty Plug | | AM0900017 |
| Keyboard Tray, Standard | | AM0400102 |
| Monitor Pole Assembly | | AM0400003 |
| Monitor Pole Cable Cover | | AM0200093 |
| Mouse Holder, Standard Tray | | HC0400305 |
| Nut, 3/4-10 Nylock Jam | | 9114772 |
| Pivot Mount | | AM0400012 |
| Riser Arm | 700N light duty | AM0400163 |
| | 850N medium duty | AM0400157 |
| | 1050N heavy duty | AM0400171 |
| Riser Arm Cable Cover | | AM0800006 |
| Screws | | |
|     Button Head Screw, 10-24 x 1/2" | | BHSC 10-24 x .500 x .500 SS |
|     CPU Bracket Thumb Screw | | AM0100039 |
|     Cross Drive Metal Screw, 1/4" 20 x 2 1/2" | | CR-PHMS 1/4-20 x 2.5 x 2.5 ZNC |
|     Hex Head Self Tapping Metal Screw, 1/4"-14 x 2 1/2" | | HX-WHDS .25-14 x 2.50 ZNC |
|     Hex Head Wood Screw | | HX-WLAG .25 x 4.0 ZNC |
|     Large Slotted Pan Head Screw | | AM0700047 |
|     Pan Head Screw, M4 x 16mm | | CR-PHMS M4 x 0.7 x 16 ZNC |
| SNAPTOGGLE® | | WS0900200 |
| Standoff, #10 x 1/4" | | HC0100167 |
| Wall Track | 32" | AM0200022 |
| | 42" | AM0200098 |
| | 48" | AM0200027 |
| Wall Track Cable Cover | 32" | AM0200092 |
| | 42" | AM0200110 |
| | 48" | AM0200109 |
| Wall Track End Cap | | AM0700001 |
| Washers | | |
|     Wide Flat Washer, 1/4" x 1" | | SWFW 1/4 x 1.00 TYPE A ZNC |
|     Phenolic Washer, 1/4" x 1" | | PH-WSH .25 x 1.0 |
|     Plastic Washer | | AM0800009 |

# PARTS INDEX

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