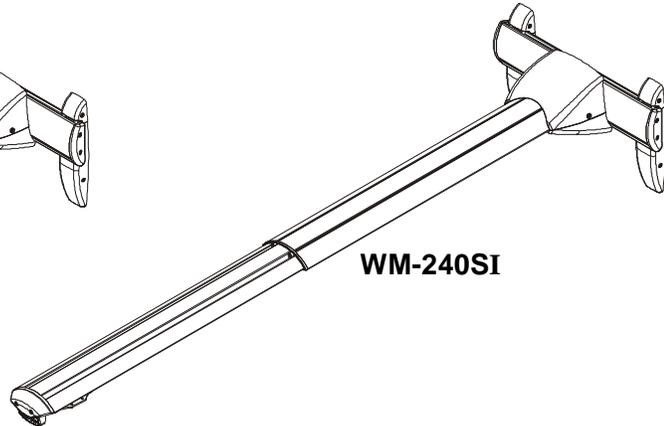
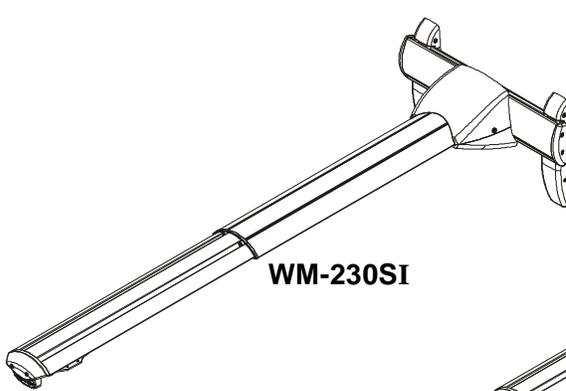
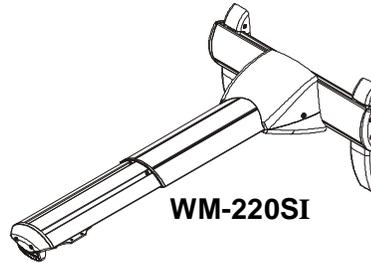
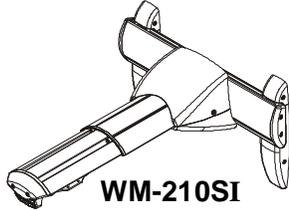

INSTALLATION INSTRUCTIONS



Dual Stud Short Throw Wall Mounts

DISCLAIMER

Milestone AV Technologies and its affiliated corporations and subsidiaries (collectively "Milestone"), intend to make this manual accurate and complete. However, Milestone makes no claim that the information contained herein covers all details, conditions or variations, nor does it provide for every possible contingency in connection with the installation or use of this product. The information contained in this document is subject to change without notice or obligation of any kind. Milestone makes no representation of warranty, expressed or implied, regarding the information contained herein. Milestone assumes no responsibility for accuracy, completeness or sufficiency of the information contained in this document.

Chief® is a registered trademark of Milestone AV Technologies. All rights reserved.

 **IMPORTANT WARNINGS AND CAUTIONS!**

 **WARNING:** A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.

 **CAUTION:** A CAUTION alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.

 **WARNING:** Failure to read, thoroughly understand, and follow all instructions can result in serious personal injury, damage to equipment, or voiding of factory warranty! It is the installer's responsibility to make sure all components are properly assembled and installed using the instructions provided.

 **WARNING:** Failure to provide adequate structural strength for this component can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the structure to which this component is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the component.

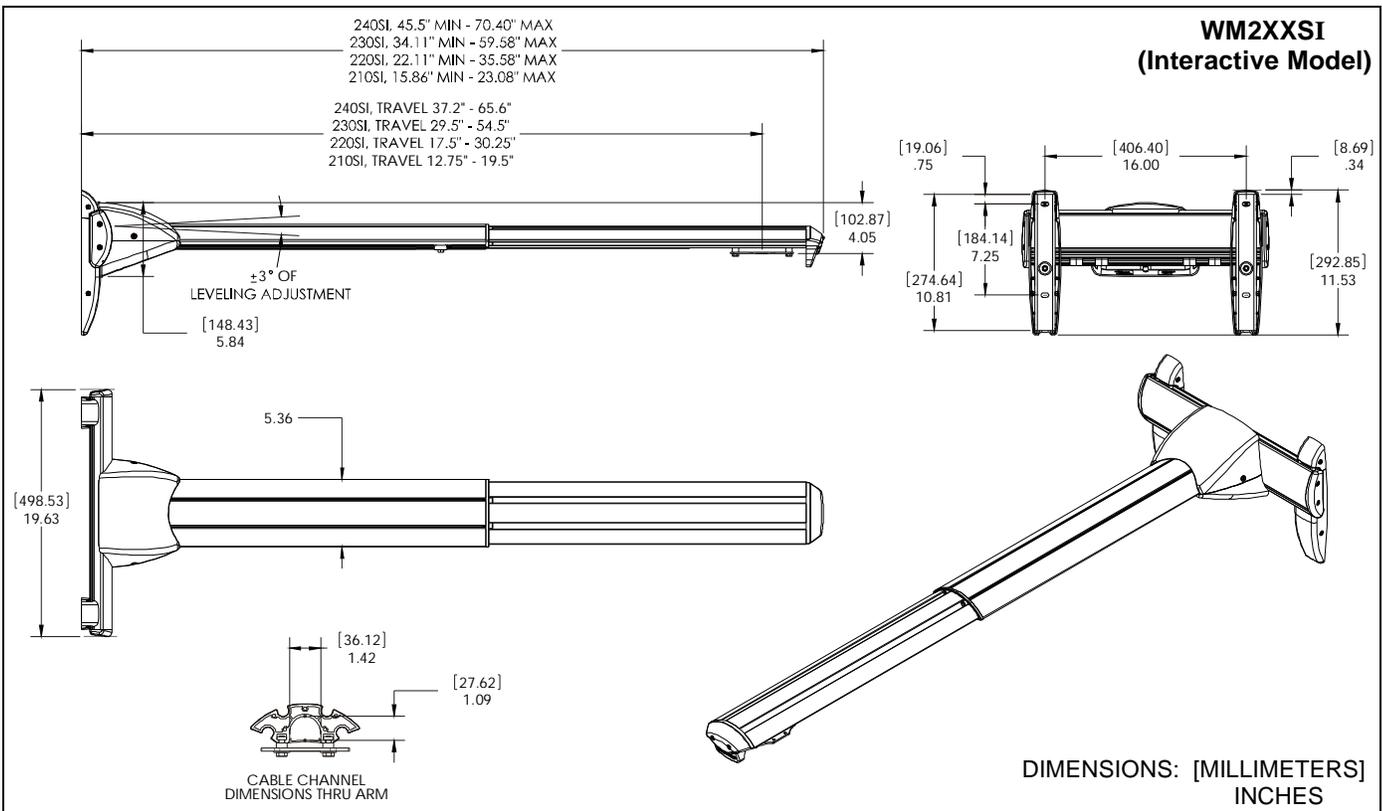
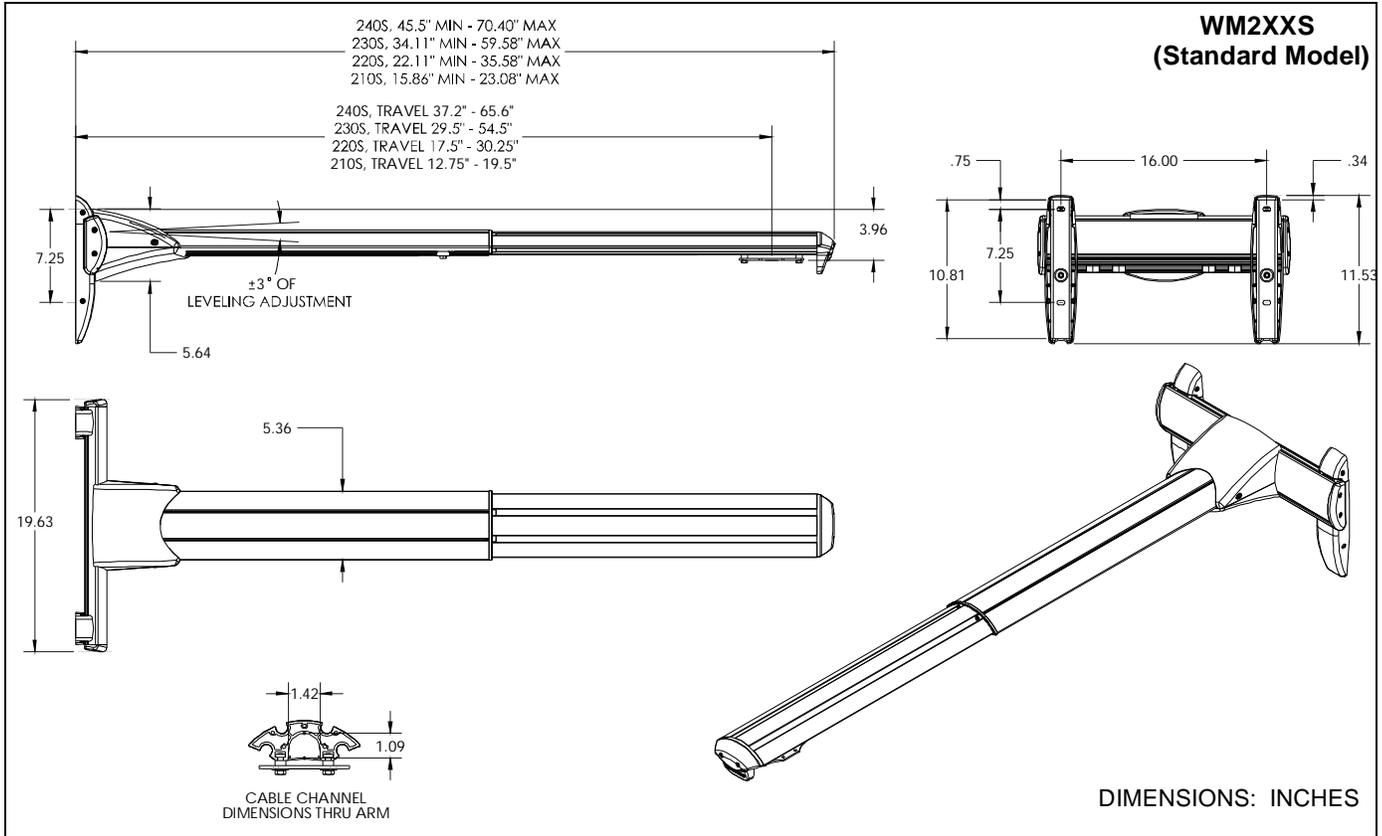
 **WARNING:** Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the combined weight of all components attached to the short throw projector mounts up to (and including) the projector does not exceed 50 lbs (22.68 kg) for the WM210S/SI or WM220S/SI; or 25 lbs (11.34 kg) for the WM230S/SI or WM240S/SI.

- The weight capacity of the short throw projector mounts may be LIMITED to the lowest weight capacity of any other component located between the short throw wall mount and the projector!

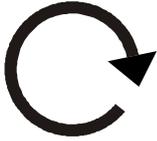
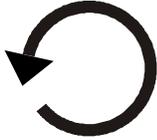
TABLE OF CONTENTS

Disclaimer	2	WM2XXSI INTERACTIVE MOUNT	13
Important Warnings and Cautions!	2	Installing Mount Covers	13
Table of Contents	2	Cable Management (Optional)	14
Dimensions	3	Removing Mount Covers	14
Legend	4	Installation of Wall Bracket Covers	16
Parts	5	Adjustments	17
Site Requirements (WM2XXSI and		Security Screw Installation (Optional)	18
WM2XXS Models) - Steel Stud Structure ..	6	WM2XXS STANDARD MOUNT	21
WS2XXSI Interactive Mount Only	7	Installing Mount Covers	21
ASSEMBLY AND INSTALLATION - (WM2XXSI		Cable Management (Optional)	21
and WM2XXS MOUNT MODELS)	9	Removing Mount Covers	21
Mounting Wall Bracket	9	Installation of Wall Bracket Covers	23
Installation to Wall Bracket	11	Adjustments	24
Projector Installation	12	Security Screw Installation (Optional)	25

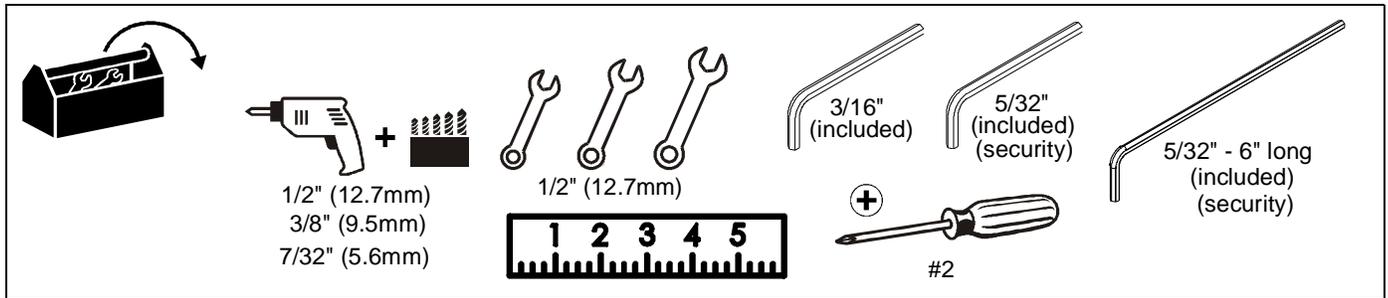
DIMENSIONS



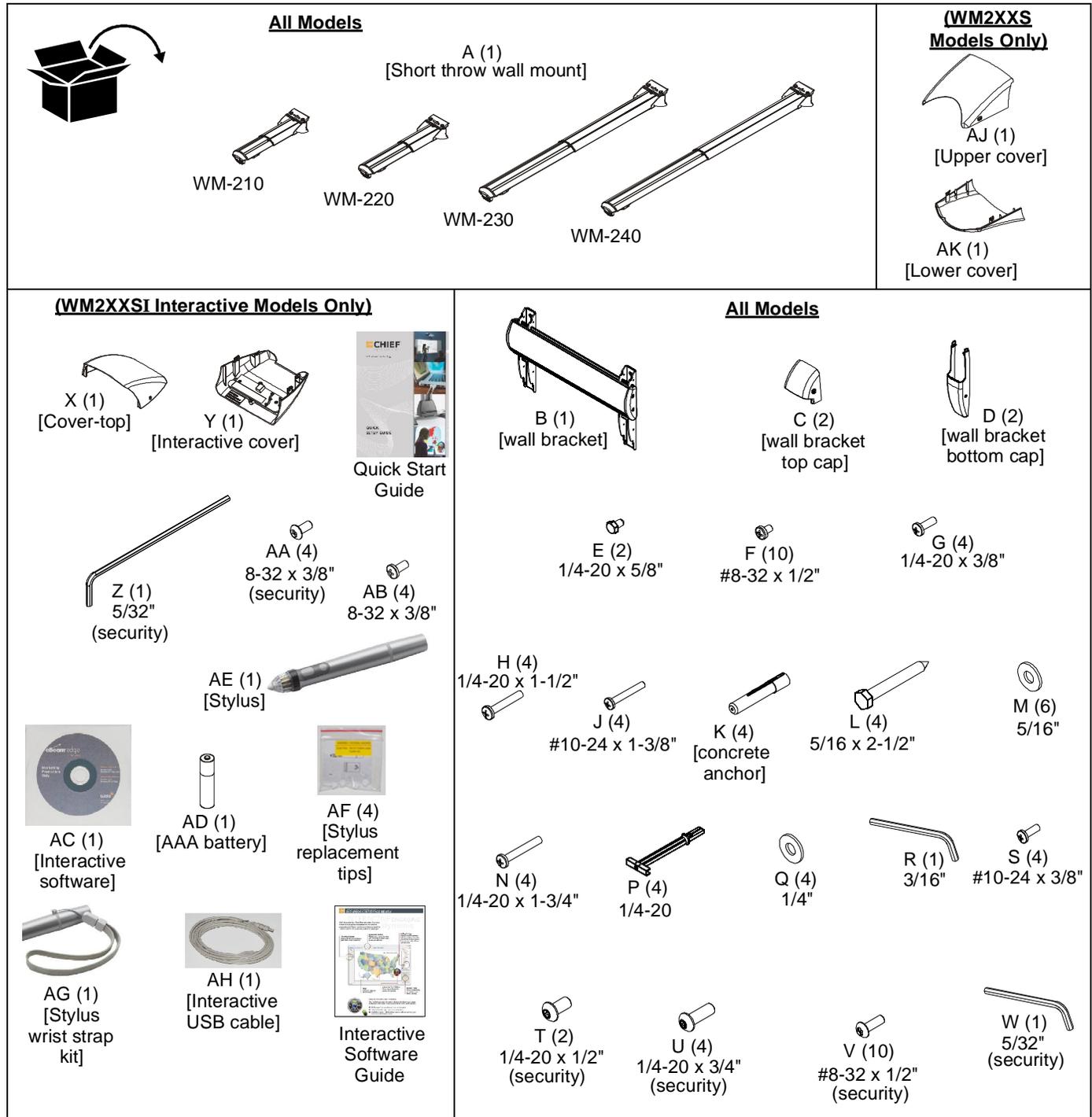
LEGEND

	Tighten Fastener Apretar elemento de fijación Befestigungsteil festziehen Apertar fixador Serrare il fissaggio Bevestiging vastdraaien Serrez les fixations		Pencil Mark Marcar con lápiz Stiftmarkierung Marcar com lápis Segno a matita Potloodmerkteken Marquage au crayon
	Loosen Fastener Aflojar elemento de fijación Befestigungsteil lösen Desapertar fixador Allentare il fissaggio Bevestiging losdraaien Desserrez les fixations		Drill Hole Perforar Bohrloch Fazer furo Praticare un foro Gat boren Percez un trou
	Phillips Screwdriver Destornillador Phillips Kreuzschlitzschraubendreher Chave de fendas Phillips Cacciavite a stella Kruijskopschroevendraaier Tournevis à pointe cruciforme		Adjust Ajustar Einstellen Ajustar Regolare Afstellen Ajuster
	Open-Ended Wrench Llave de boca Gabelschlüssel Chave de bocas Chiave a punte aperte Steeksleutel Clé à fourche		Remove Quitar Entfernen Remover Rimuovere Verwijderen Retirez
	By Hand A mano Von Hand Com a mão A mano Met de hand À la main		Optional Opcional Optional Opcional Opzionale Optie En option
	Hex-Head Wrench Llave de cabeza hexagonal Sechskantschlüssel Chave de cabeça sextavada Chiave esagonale Zeskantsleutel Clé à tête hexagonale		Security Wrench Llave de seguridad Sicherheitsschlüssel Chave de segurança Chiave di sicurezza Veiligheidsleutel Clé de sécurité

TOOLS REQUIRED FOR INSTALLATION



PARTS



SITE REQUIREMENTS (WM2XXSI and WM2XXS Models) - Steel Stud Structure

⚠ WARNING: IMPROPER INSTALLATION CAN LEAD TO EQUIPMENT FALLING CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! The figure below identifies the minimum requirements for installation of display mounts onto a steel stud structure. If the structure or its components do not meet these requirements contact the mount manufacturer for specific instructions before attempting installation. It should also be noted that no other equipment should be mounted to the same stud. (See Figure 1)

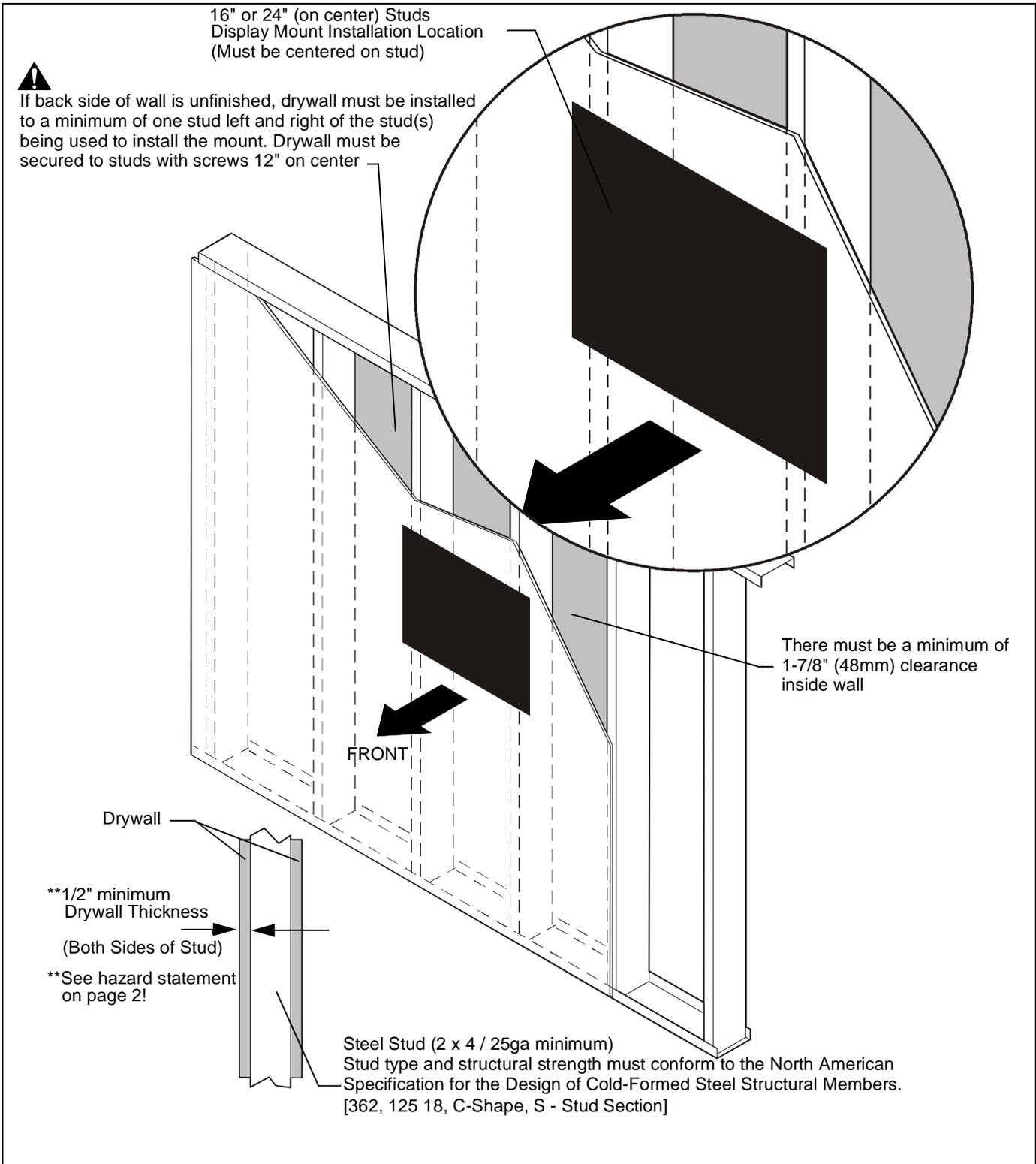


Figure 1

WS2XXSI INTERACTIVE MODEL ONLY

The Chief Interactive Mount (WM2XXSI) works with standard projectors and Windows® and Macintosh® computers. The Interactive Mount will transform existing whiteboards or other hard, flat surfaces, into interactive whiteboards and allows users to present, annotate, and interact with their projected content and all of their desktop applications.

IMPORTANT ! : After adding batteries to the stylus (AE), tighten the cap **only** to the point of being fingertip-tight. Overtightening cap may cause the stylus to stop transmitting signals.

Minimum System Requirements

- Windows® System
 - Compatible PC with Pentium™ II 400 MHz+ processor and 256 MB RAM
 - Windows 2000, XP, Server 2003, Vista, or 7
 - 30 MB available hard drive space
 - Available USB port
- Macintosh® System
 - Power PC®/Intel™ 1.42 GHz+ processor and 1G RAM
 - Mac OS X 10.5 through 10.6
 - 25 MB available hard drive space
 - Available USB port

Active Capture Area Size

- The maximum active capture area supported is: 4 ft x 7 ft or up to 94 inches diagonal measure.
- The minimum active capture area supported is: 1.7 ft x 1.1 ft.

Connection Requirement

- The interactive mount includes a USB cable.

Screen Recording Requirements

(Currently available only on Windows platform.)

- Pentium™ IV processor
- 1.4GHz, with 512MB RAM

Environmental Interference Guide

Ultrasound Reflections

General proximity guideline: A distance of 12 feet (approximately 4 meters) between the motion sensor and the eBeam receiver will normally allow good performance with the maximum board size. (See Figure 2)

Interference can be reduced by reducing the size of the projection area.

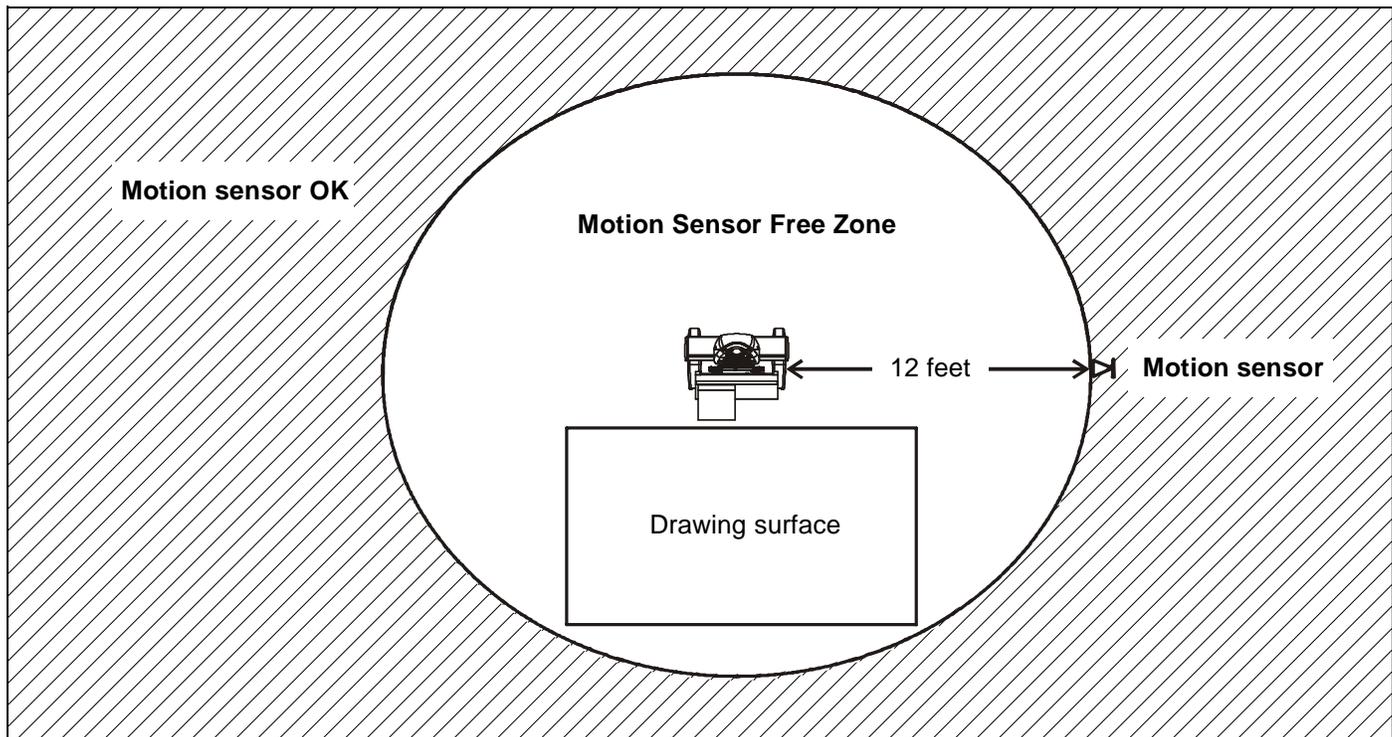


Figure 2

WM2XXSI Placement and Projection Area Constraints (See Figure 3)

- There should be a minimum distance of 12 inches between the base of the dual mount and the top of the projection image.
- The distance between the base of the dual mount and the bottom corner of the projection image (both right and left) should be less than or equal to 110 inches.
- The projection image should start a minimum of 1 inch from the base of the top frame of the whiteboard.
- The projection image should be positioned within the fan area extending from the Chief Interactive Dual Mount. This fan area should not exceed 140 degrees.

Whiteboard Constraints

- The whiteboard should not be thicker than 1". (See Figure 3)
- The ledge of the whiteboard frame should be less than or equal to 1/3". (See Figure 3)

Important Notes

- Do not put sticky notes, hanging paper, cables, outlets, or other items below the wall mount or inside the capture area. (See Figure 3)
- Image should be placed one inch below the edge of the whiteboard to minimize interference from the frame top.

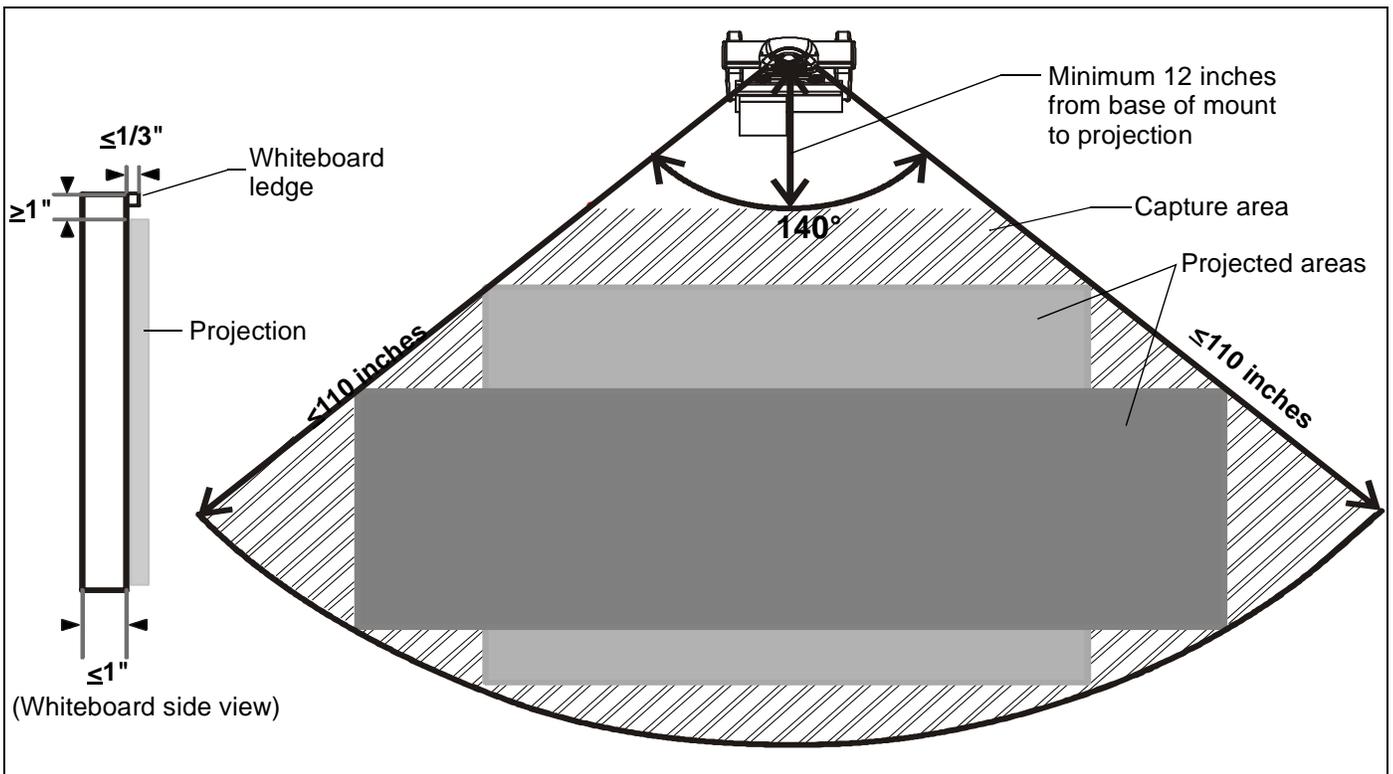


Figure 3

ASSEMBLY AND INSTALLATION - (WM2XXSI and WM2XXS MODELS)

The WM-210S/SI, -220S/SI, -230S/SI and -240S/SI short throw projector mounts can be mounted to concrete, concrete block, wood studs or steel studs. They can be mounted to 2" x 4" wood studs up to 16" apart. For studs more than 16" apart, the WMAL24 accessory (not evaluated and tested by Underwriters Laboratories®) can be used to mount projector.



WARNING: ELECTRICAL SHOCK HAZARD! CUTTING OR DRILLING INTO ELECTRICAL CORDS OR CABLES CAN CAUSE DEATH OR SERIOUS PERSONAL INJURY! ALWAYS make certain area behind mounting surface is free of electrical wires and cables before cutting, drilling, or installing fasteners.



WARNING: EXPLOSION AND FIRE HAZARD! CUTTING OR DRILLING INTO GAS PLUMBING CAN CAUSE DEATH OR SERIOUS PERSONAL INJURY! ALWAYS make certain area behind mounting surface is free of gas, water, waste, or any other plumbing before cutting, drilling, or installing fasteners.

Mounting Wall Bracket

Concrete or Concrete Block

1. Determine mounting location on wall.
2. Using wall bracket (B) as a template, mark four holes at the holes in bracket. (See Figure 4)
3. Drill four 3/8" holes at marked locations in wall. (See Figure 4)

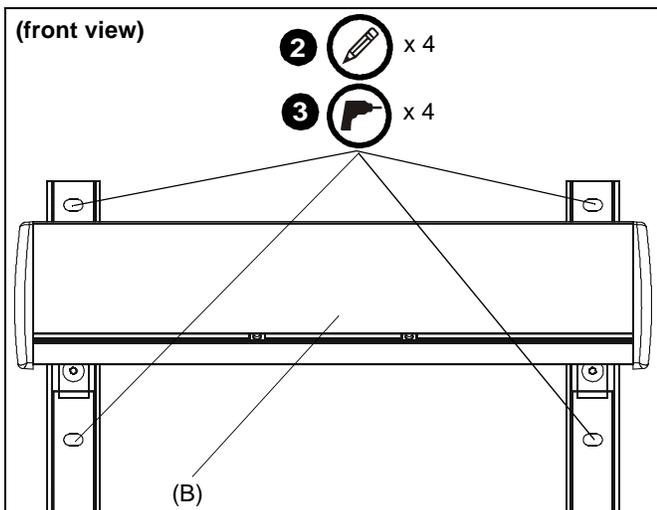


Figure 4

4. Install four concrete anchors (K) into drilled holes. (See Figure 5)
5. Install four 5/16 x 2-1/2" hex head lag screws (L) through four 5/16" washers (M), outer holes of wall bracket (B) and into concrete anchors (K). (See Figure 5)

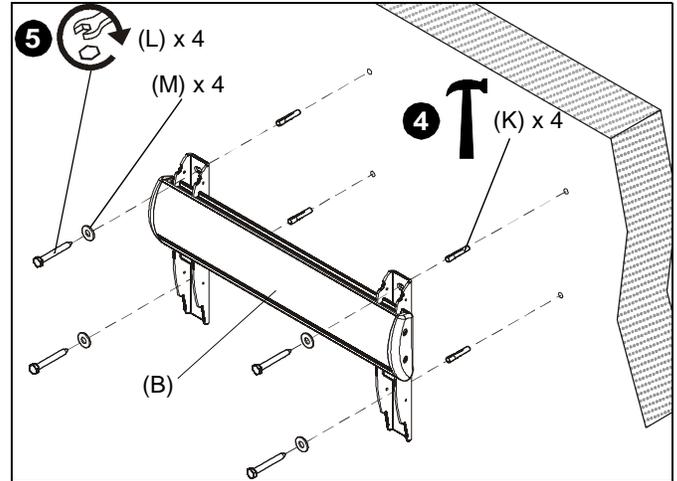


Figure 5

Wood Studs



WARNING: The wall to which the mount is being attached may have a maximum drywall thickness of 5/8" (1.6cm). Do not install drywall anchors into the seam between drywall pieces.

1. Determine mounting location on wall. Use a stud finder to locate 2" x 4" wood studs. For studs less than 16" apart, mounting brackets will have to be adjusted. See appropriate **Adjustments** section for details.
2. Line up inner four holes on wall bracket (B) with center of studs at desired mounting location. (See Figure 6)
3. Using wall bracket (B) as a template, mark four holes at the holes in bracket. (See Figure 6)
4. Drill four 7/32" holes at marked locations in wall. (See Figure 6)

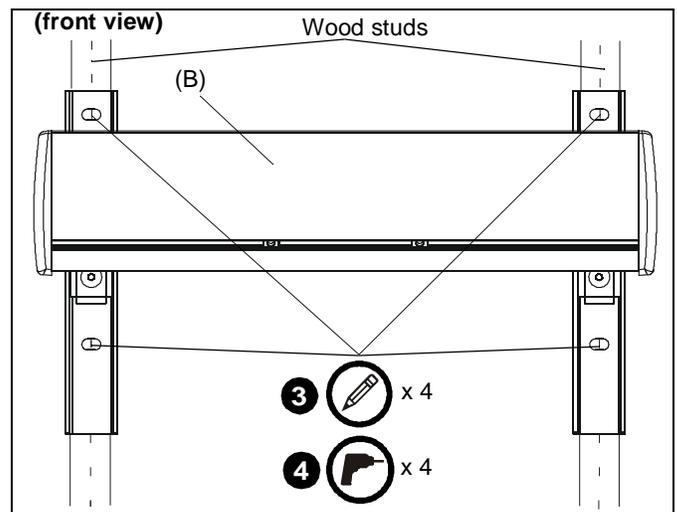


Figure 6

5. Install four 5/16 x 2-1/2" hex head lag screws (L) through four 5/16" washers (M), holes of wall bracket and into drilled holes. (See Figure 7)

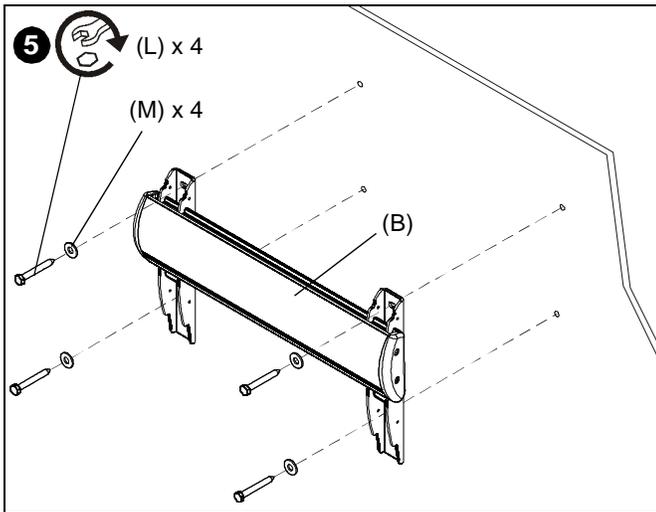


Figure 7

Steel Studs

IMPORTANT ! : See **Site Requirements** section before proceeding with Steel Studs installation to ensure installation site meets requirements! The drywall must have a minimum thickness of 1/2"!

1. Determine mounting location on wall. Use stud finder to locate steel studs. For studs less than 16" apart, wall bracket will have to be adjusted. See appropriate **Adjustments** section for details.
2. Line up four holes on wall bracket with center of studs at desired mounting location. (See Figure 8)
3. Using wall bracket as a template, mark four holes at the inner four holes in bracket. (See Figure 8)
4. Drill four 1/2" holes at marked locations in wall. (See Figure 8)

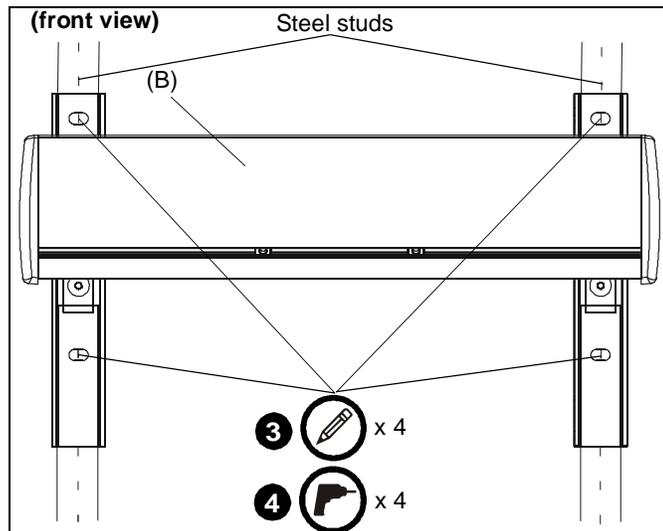


Figure 8

5. Hold metal channel on anchor (P) flat alongside plastic straps and slide channel through hole. (See Figure 9)

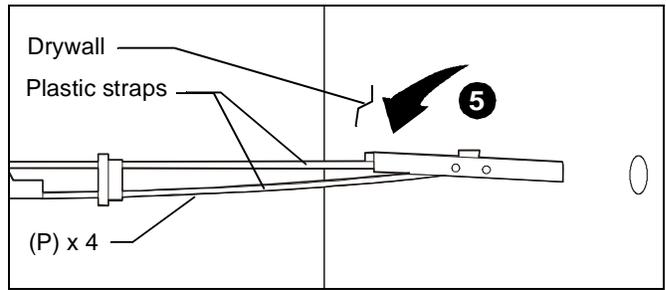


Figure 9

6. Holding plastic straps on anchor (P), pull anchor away from wall until channel rests flush behind wall making sure anchor channel is positioned vertically on stud. (See Figure 10)
7. Slide plastic cap on anchor (P) towards wall until flange of cap is flush with wall. (See Figure 10)

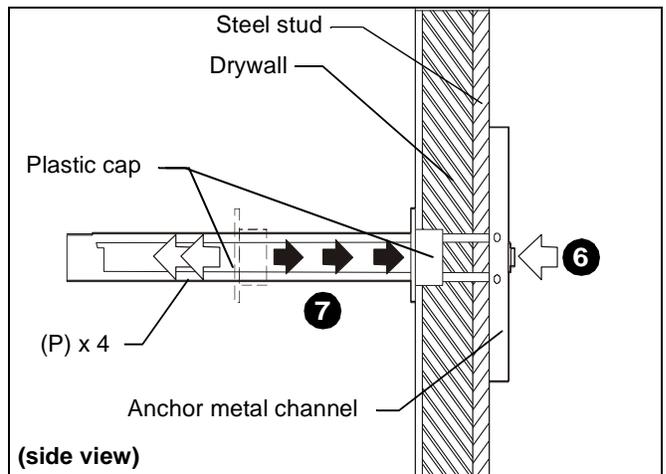


Figure 10

8. Snap off plastic straps on anchor at wall by pushing side to side, snapping off straps level with flange of plastic cap. (See Figure 11)
9. Repeat Steps 6 through 8 for each mounting hole.

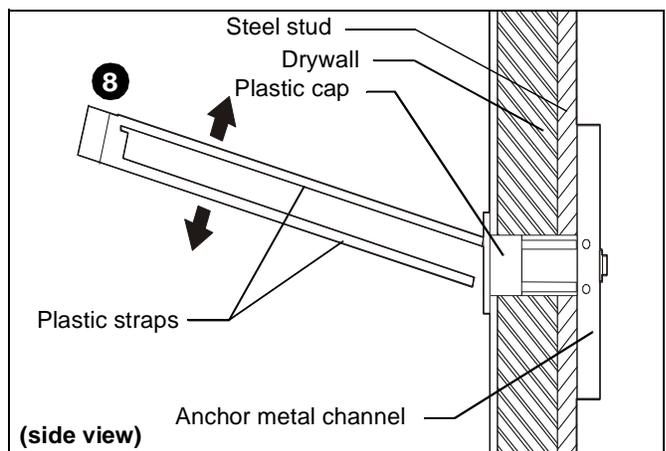


Figure 11

10. Place wall bracket over anchors and align mounting holes in display mount with holes in anchors. (See Figure 12)
11. Insert 1/4-20 x 1-3/4" Phillips pan head screws (N) through 1/4" washer (Q), corresponding mounting hole on wall bracket and into anchor (P) and tighten until flush against mount. DO NOT overtighten! (See Figure 12)
12. Repeat Step 11 for remaining 3 mounting holes.



WARNING: IMPROPER INSTALLATION CAN LEAD TO EQUIPMENT FALLING CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! Overtightening of mounting hardware can damage the steel studs. DO NOT overtighten mounting hardware!

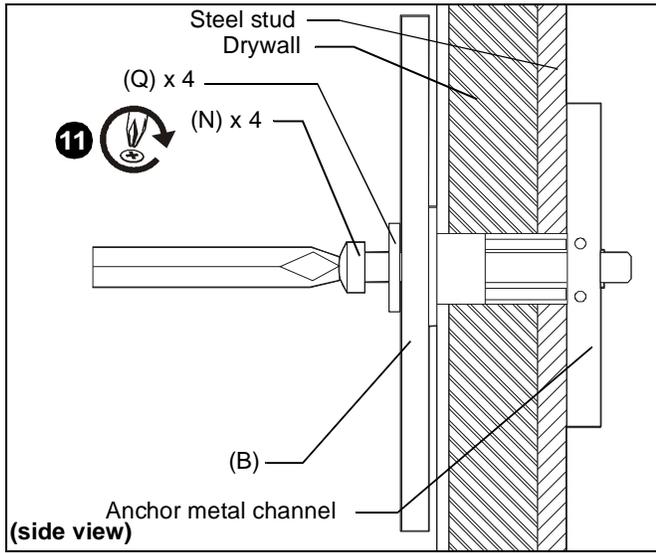


Figure 12

Installation to Wall Bracket

1. Lift short throw projector arm (A) up to wall bracket (B) and hook top plate onto cross bracket on wall bracket. (See Figure 13)

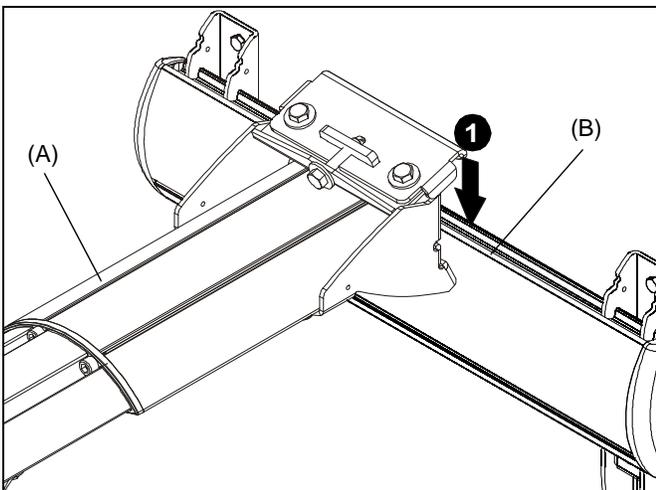


Figure 13

2. Slide lower plate onto cross bracket on mounting bracket. (See Figure 14)

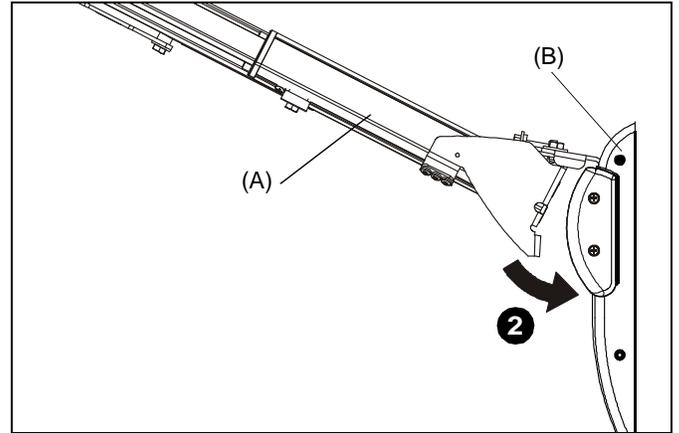


Figure 14

3. Install two 1/4-20 x 5/8" hex head bolts (E) through holes on short throw projector arm (A) and into sliding nuts on mounting bracket (B). DO NOT TIGHTEN SCREWS AT THIS POINT! (See Figure 15)

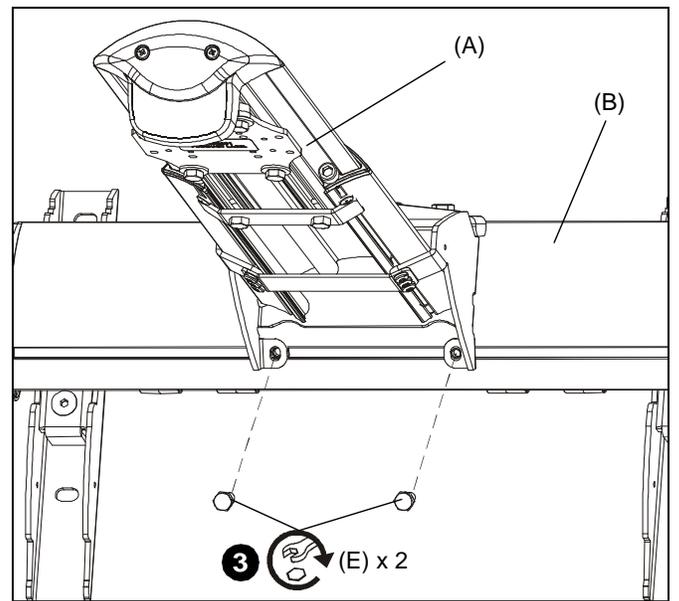


Figure 15

4. Loosen two bolts on either side of pitch adjustment screw. (See Figure 16)
5. Adjust pitch adjustment screw until mount is at desired pitch level. Turn clockwise to raise mounting level or turn counterclockwise to lower mounting level. (See Figure 16)
6. Tighten two bolts on either side of pitch adjustment screw. (See Figure 16)

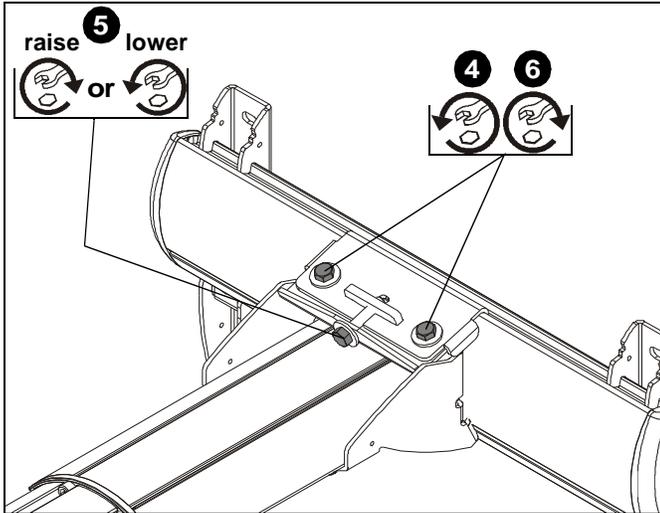


Figure 16

7. Tighten two bolts installed in Step 3. (See Figure 15)

Projector Installation



WARNING: Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the combined weight of all components attached to the short throw projector mounts up to (and including) the projector does not exceed 50 lbs (22.68 kg) for the WM210S/SI or the WM220S/SI or 25 lbs (11.34 kg) for the WM230S/SI or WM240S/SI.

NOTE: RPM, RPA and RSA are sold separately.

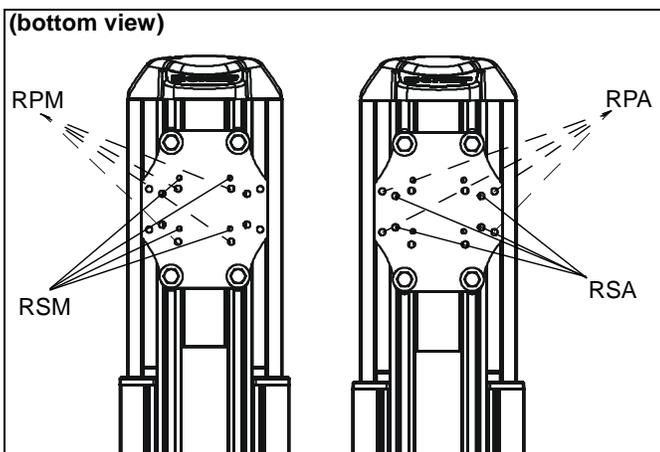


Figure 17

NOTE: Determine hole configuration to use for each specific projector mount. (See Figure 17)

RPM Installation

1. Line up mounting holes on RPM mount with corresponding holes on projector mounting plate. (See Figure 17)
2. Install four 1/4-20 x 1-1/2" Phillips pan machine screws (H) through RPM holes and into projector mounting plate. (See Figure 18)

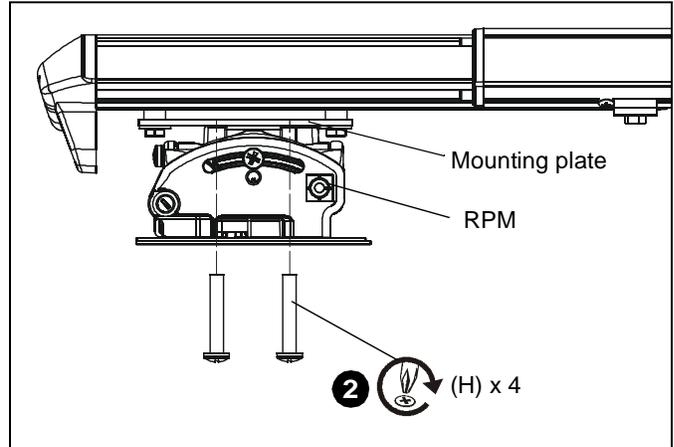


Figure 18

3. Install interface and projector to RPM according to RPM installation instructions.

RSM (not evaluated and tested by Underwriters Laboratories®) Installation

1. Line up mounting holes on RSM mount with corresponding holes on projector mounting plate. (See Figure 17)
2. Install four #10-24 x 1-3/8" Phillips pan machine screws (J) through RSM holes and into projector mounting plate. (See Figure 19)

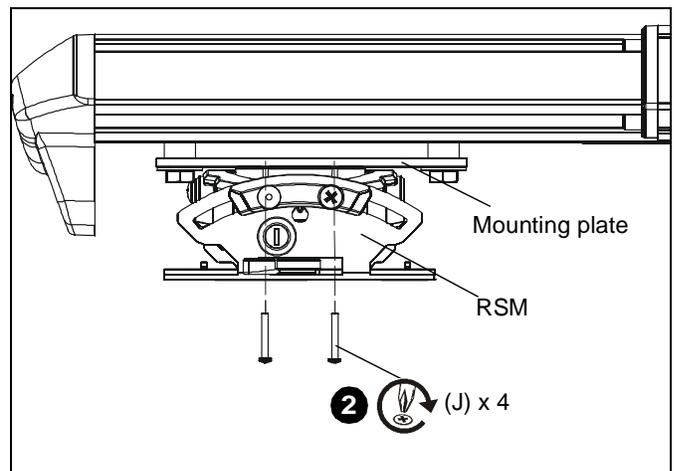


Figure 19

3. Install interface and projector to RSM according to RSM installation instructions.

RPA Installation

1. Line up mounting holes on RPA mount with corresponding holes on projector mounting plate. (See Figure 17)
2. Install four 1/4-20 x 3/8" Phillips pan machine screws (G) through RPA holes and into projector mounting plate. (See Figure 20)

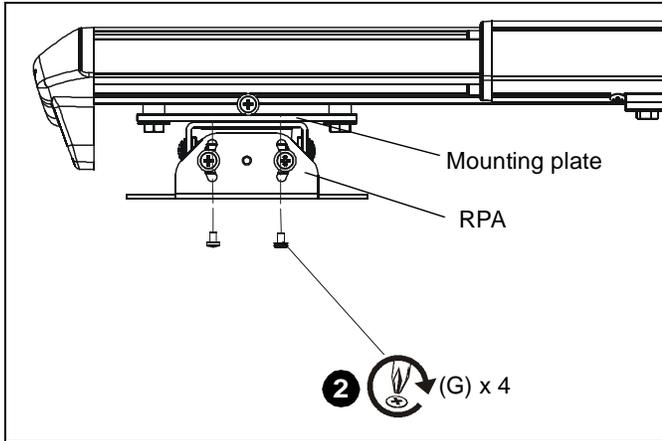


Figure 20

3. Install interface and projector to RPA according to RPA installation instructions.

RSA Installation

1. Line up mounting holes on RSA mount with corresponding holes on projector mounting plate. (See Figure 17)
2. Install four #10-24 x 3/8" Phillips pan machine screws (S) through RSA holes and into projector mounting plate. (See Figure 21)

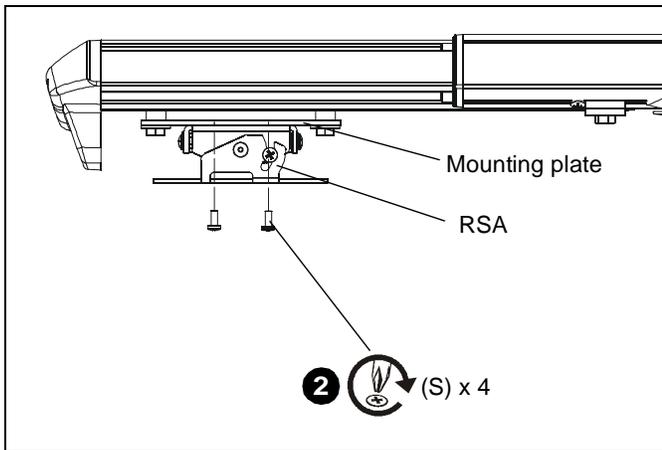


Figure 21

3. Install interface and projector to RSA according to RSA installation instructions.

IMPORTANT ! : Complete the installation by proceeding to **WM2XXSI Interactive Mount** section or **WM2XXS Standard Mount** section, as appropriate.

WM2XXSI INTERACTIVE MOUNT

Installing Mount Covers

1. Route cables from projector through cartridge in interactive cover (Y). (See Figure 22)

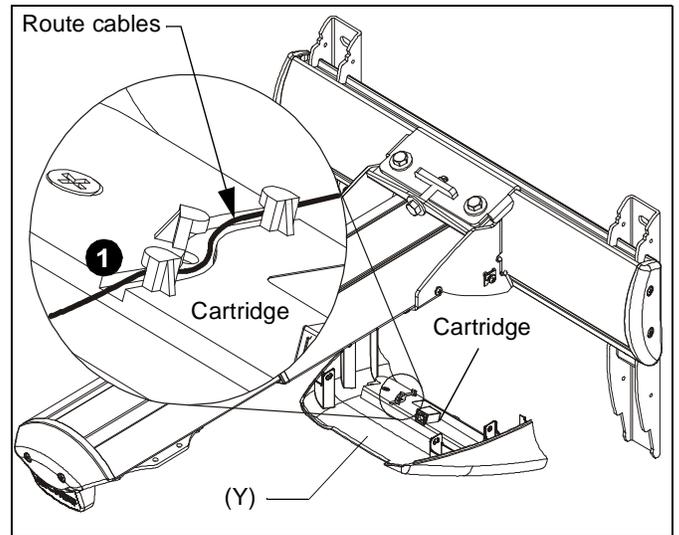


Figure 22

2. Connect USB cable (AH) to cartridge through bottom of lower cover.
3. Raise the lower cover containing cartridge and attach to wall mount using two 8-32 x 3/8" Phillips pan head screws (AB). (See Figure 23)

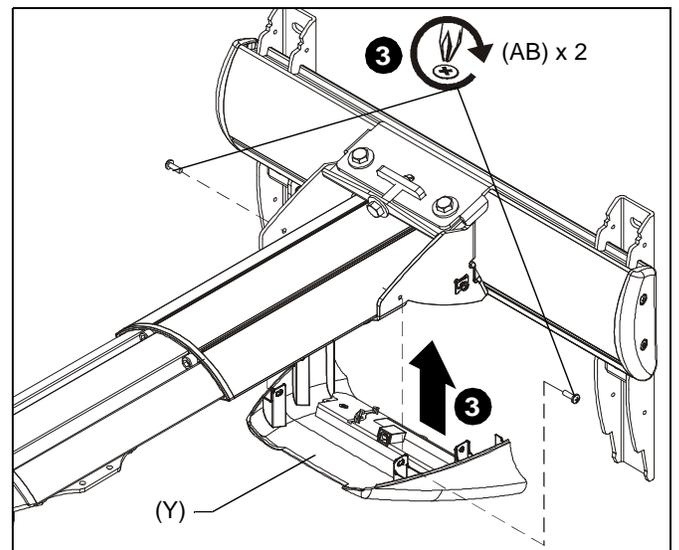


Figure 23

4. Lower the upper cover (X) onto the wall mount and lower cover, and fasten with two 8-32 x 3/8" Phillips pan head screws (AB). (See Figure 24)

NOTE: Be sure cables and cords are not pinched between upper and lower covers.

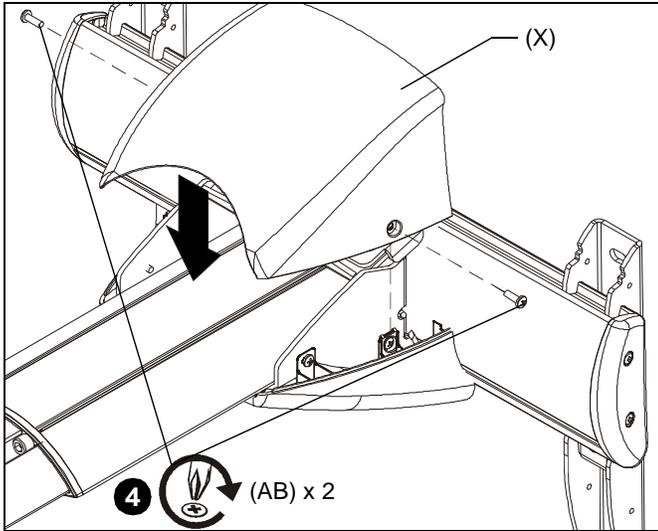


Figure 24

Cable Management (Optional)

In most cases, cable management covers will NOT need to be removed in order to route cables from projector to the wall mount. But for some thick cables, removing the covers may be necessary.

Removing Mount Covers

1. Remove and save two 8-32 x 3/8" Phillips pan head screws (AB) from upper cover. (See Figure 25)
2. Raise and remove the upper cover from the mount. (See Figure 25)

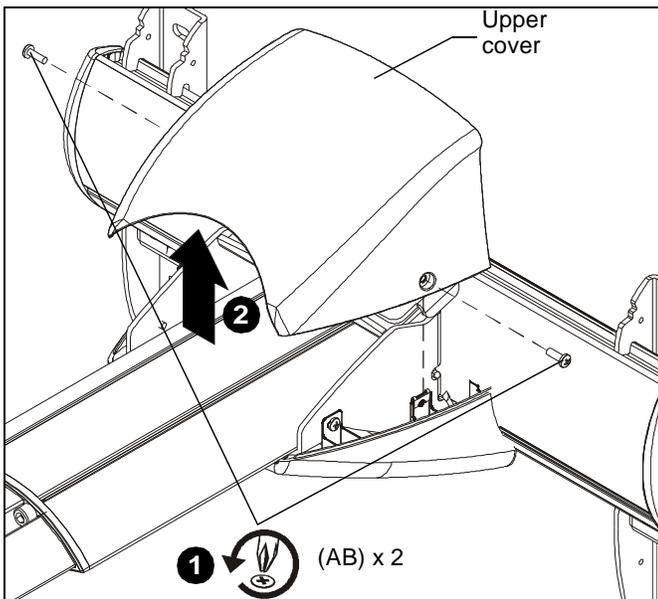


Figure 25

3. Remove and save two 8-32 x 3/8" Phillips pan head screws (AB) from lower cover. (See Figure 26)

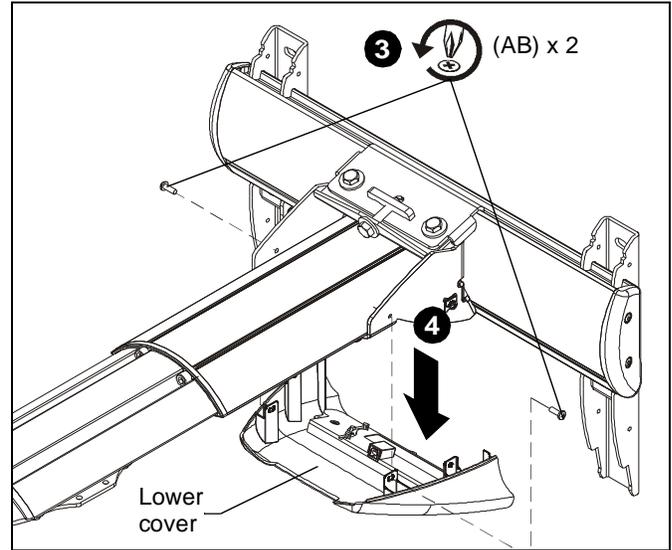


Figure 26

4. Remove the lower cover from the wall mount. (See Figure 26)
5. Remove cable management covers (if necessary) from short throw projector arm. (See Figure 27)

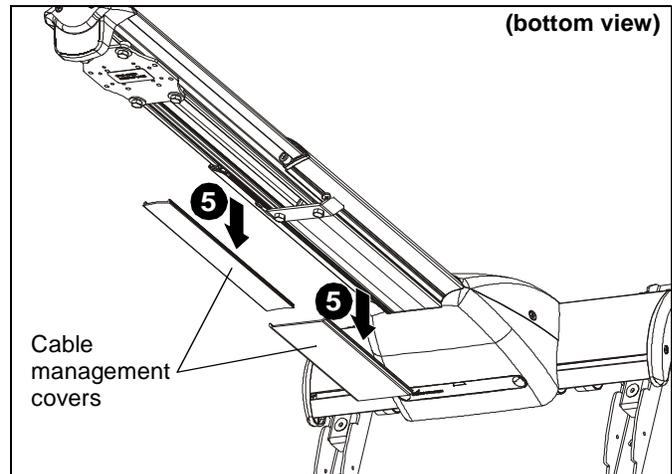


Figure 27

NOTE: Cables may be routed from below and up wall bracket channel, or from above and down behind and into wall mount.

- **Routing Cables from Below (Steps 6 and 7)**

6. Open cable clips along bottom edge of wall bracket. (See Figure 28)

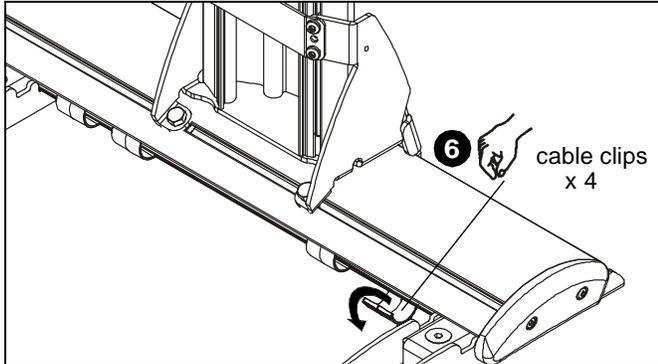


Figure 28

7. Thread cable up wall bracket channel and into opened cable clips. (See Figure 29) **Proceed to Step 9**

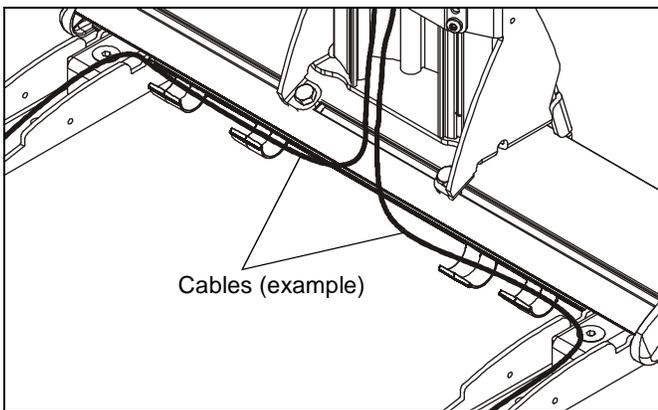


Figure 29

- **Routing Cables from Above (Step 8)**

8. Thread cables down through a surface mount cable accessory (not included), then behind and into the wall bracket. (See Figure 30) **Proceed to Step 9**

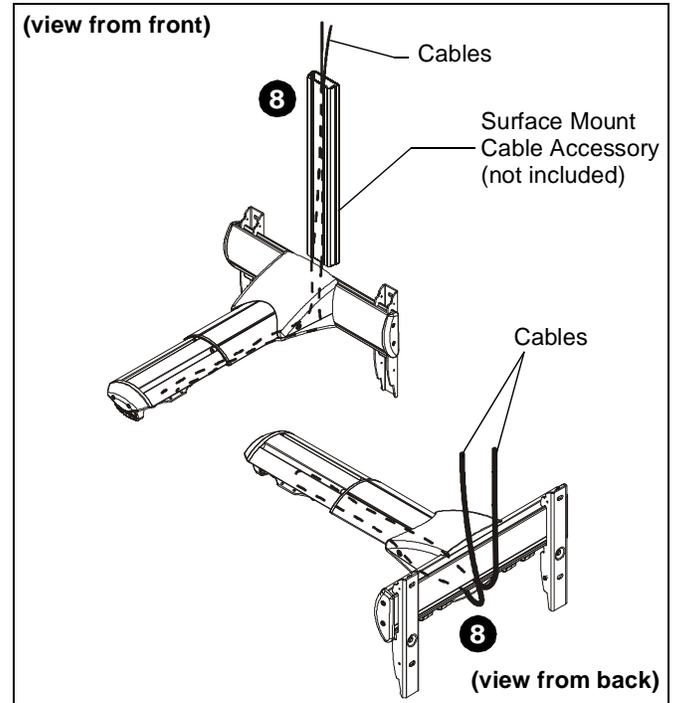


Figure 30

9. Route cables through cover mount, projector arm tunnel and into projector. (See Figure 31)

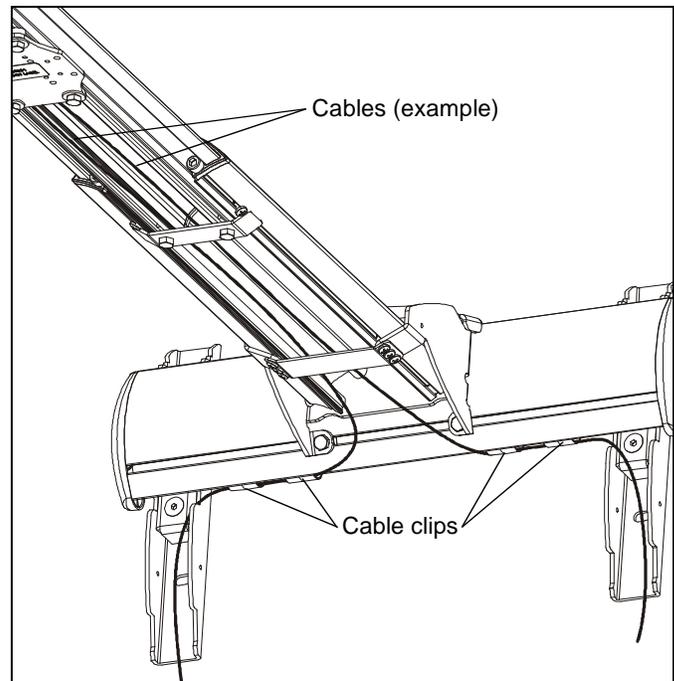


Figure 31

10. **(Optional)** Cables can be tied to inside of mount's front cover using cable ties (not included). Route cables near front cover and wrap cable tie through slots on front cover and around cables. (See Figure 32)

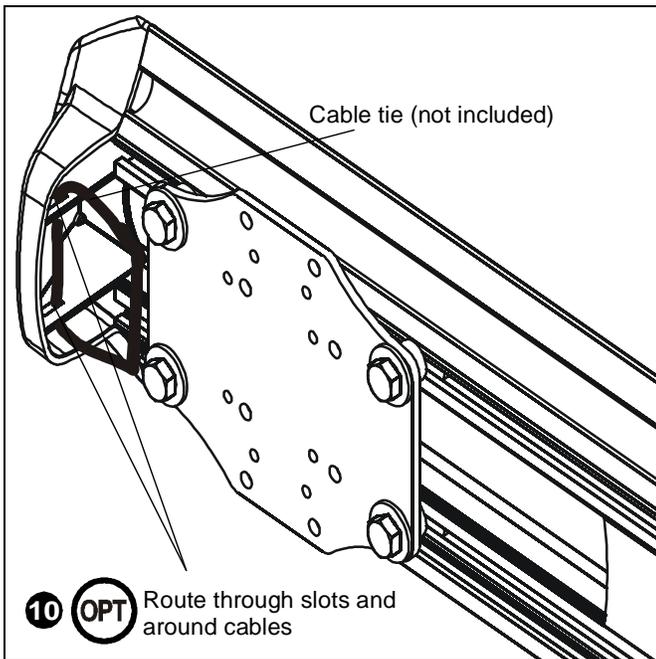


Figure 32

11. Replace removed cable management covers (if necessary). Insert one side of cover into groove and press firmly on the cover on the other side until it snaps into the other groove. (See Figure 33)

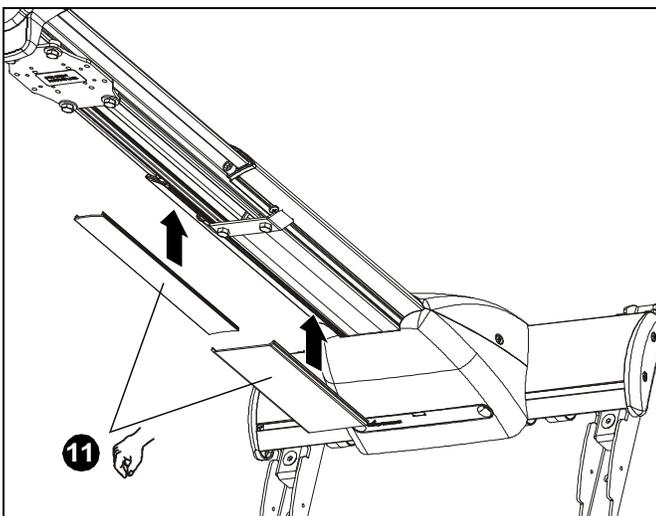


Figure 33

12. Return outer covers to the mount following instructions in **Installing Mount Covers** section.

Installation of Wall Bracket Covers

NOTE: If security screws are going to be used, use the security screws (V) to install wall bracket covers. See **Security Screw Installation** section for details.

1. Place wall bracket top caps (C) over top of each wall bracket arm. (See Figure 34)

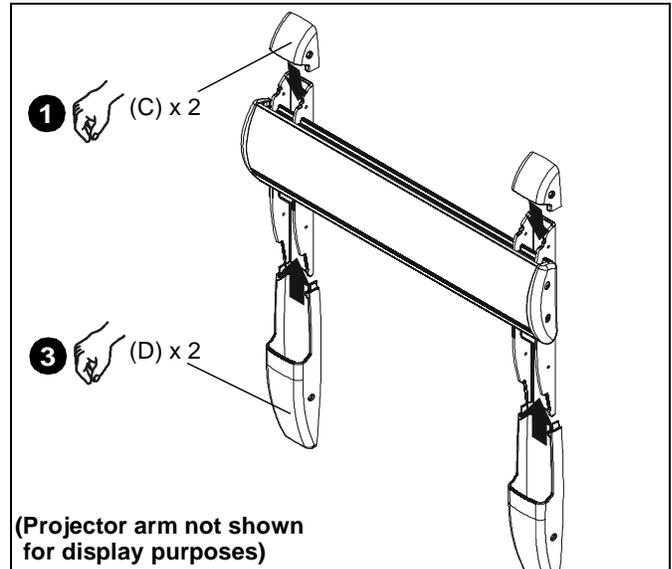


Figure 34

2. Secure wall bracket top caps (C) to wall bracket arms by installing four #8-32 x 1/2" Phillips pan machine screws (F) through holes in covers and wall bracket. (See Figure 35)
3. Place wall bracket bottom caps (D) over bottom of each wall bracket arm. (See Figure 34)
4. Secure wall bracket bottom caps (D) to wall bracket arms by installing four #8-32 x 1/2" Phillips pan machine screws (F) through holes in covers and wall bracket. (See Figure 35)

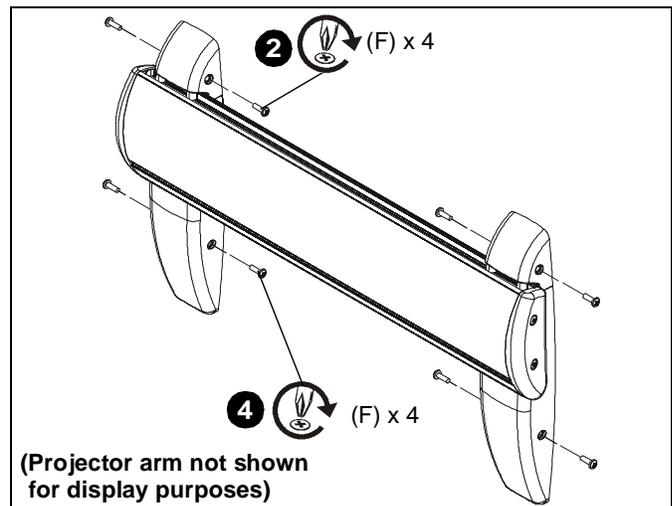


Figure 35

Adjustments

Bracket Width Adjustment

1. Loosen two flat head cap screws on wall bracket. (See Figure 36)
2. Slide wall brackets to corresponding width of studs. (See Figure 36)
3. Tighten two flat head cap screws on wall bracket. (See Figure 36)

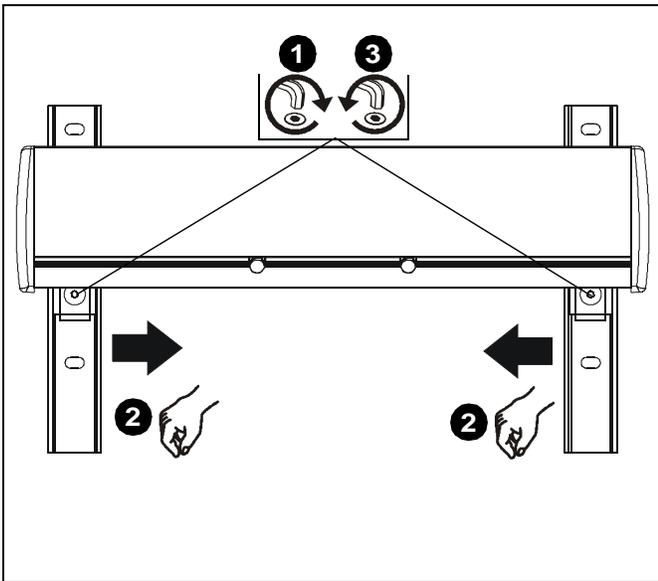


Figure 36

Pitch Adjustment

IMPORTANT ! : The mount covers need to be removed before proceeding with pitch adjustment.

NOTE: Remove mount covers from the mount following instructions in **Removing Mount Covers** section.

1. Loosen two 1/4-20 x 5/8" hex head cap screws (E) on underside of mounting bracket. (See Figure 37)

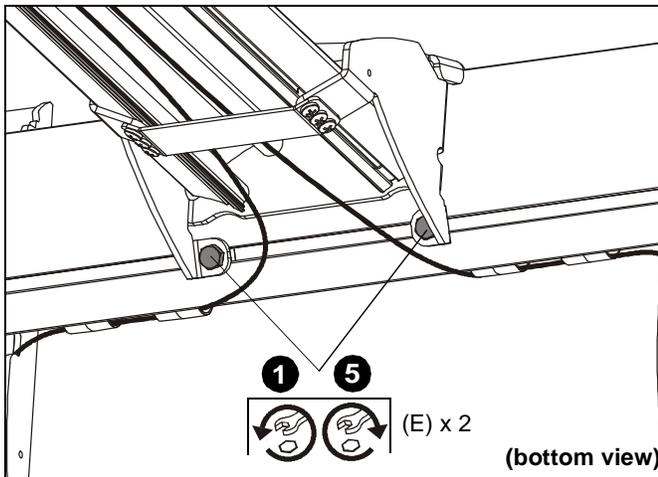


Figure 37

2. Loosen two bolts on either side of pitch adjustment screw. (See Figure 38)
3. Adjust pitch adjustment screw until mount is at desired pitch level. Turn clockwise to raise mounting level or turn counterclockwise to lower mounting level. (See Figure 38)
4. Tighten two bolts on either side of pitch adjustment screw. (See Figure 38)
5. Tighten two 1/4-20 x 5/8" screws (E) on underside of mounting bracket. (See Figure 37)

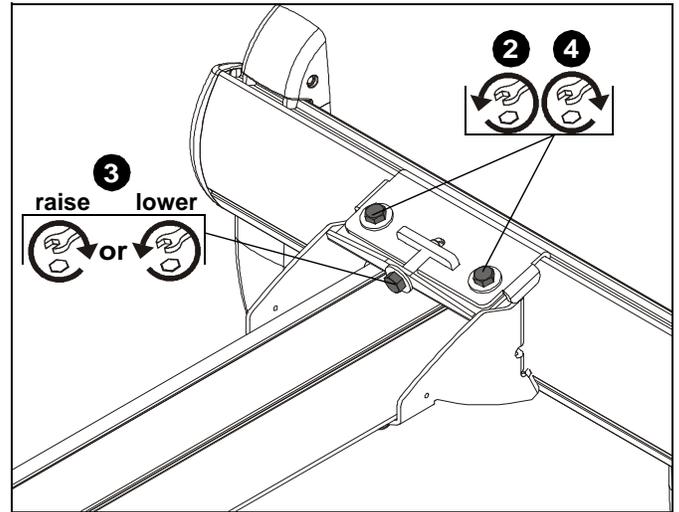


Figure 38

6. Return outer covers to the mount following instructions in **Installing Mount Covers** section.

Extension Adjustment

1. Loosen two bolts holding stop bracket in place on underside of short throw projector mount. (See Figure 39)
2. Adjust mount to desired extension length. (See Figure 39)
3. Tighten two bolts holding stop bracket to secure mount in desired position. (See Figure 39)

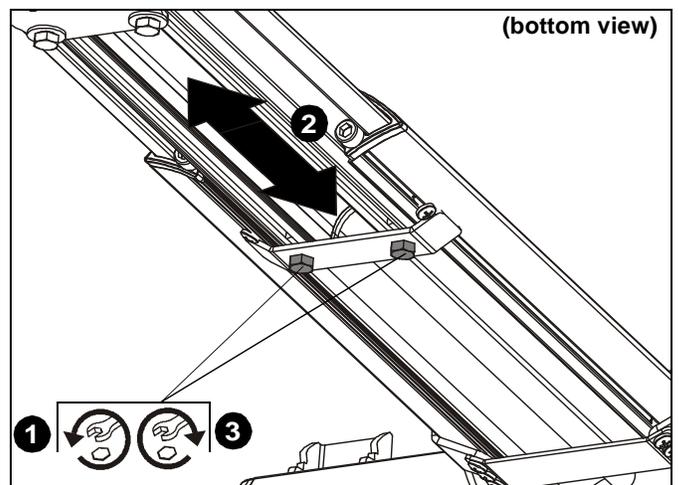


Figure 39

Lateral Shift Adjustment

IMPORTANT ! : The mount covers need to be removed before proceeding with lateral shift adjustment.

NOTE: Remove mount covers from the mount following instructions in **Removing Mount Covers** section.

1. Loosen two 1/4-20 x 5/8" hex head cap screws (E) on underside of mounting bracket. (See Figure 40)
2. Adjust projector arm laterally to desired position. (See Figure 40)
3. Tighten two 1/4-20 x 5/8" hex head cap screws (E) loosened in Step 1. (See Figure 40)

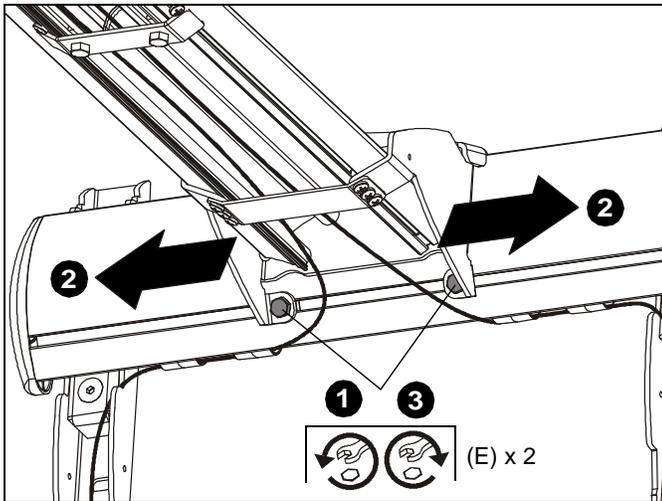


Figure 40

4. Return outer covers to the mount following instructions in **Installing Mount Covers** section.

Security Screw Installation (Optional)

Wall Bracket Covers

1. Remove eight #8-32 x 1/2" Phillips pan machine screws (F) from wall bracket covers. (See Figure 41)

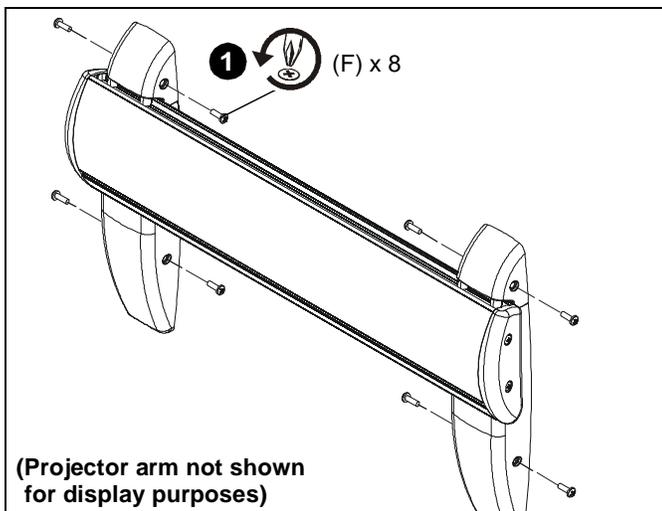


Figure 41

2. Install eight #8-32 x 1/2" button head security screws (V) into holes in wall bracket covers. (See Figure 42)

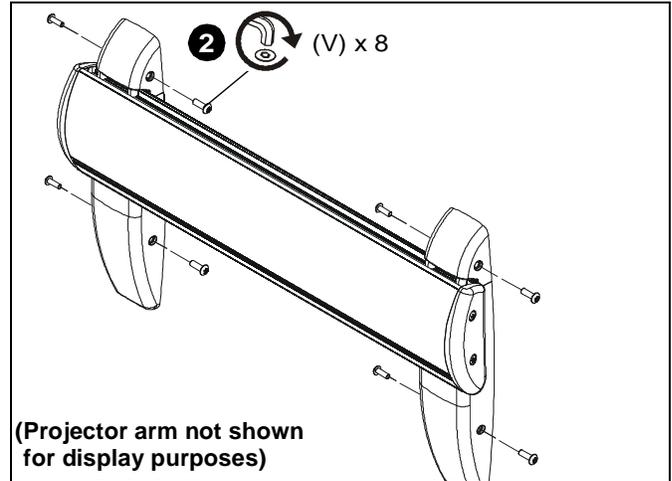


Figure 42

Mount Covers

1. Remove two 8-32 x 3/8" Phillips pan head screws (AB) from upper cover. (See Figure 43)
2. Raise and remove the upper cover from the mount. (See Figure 43)

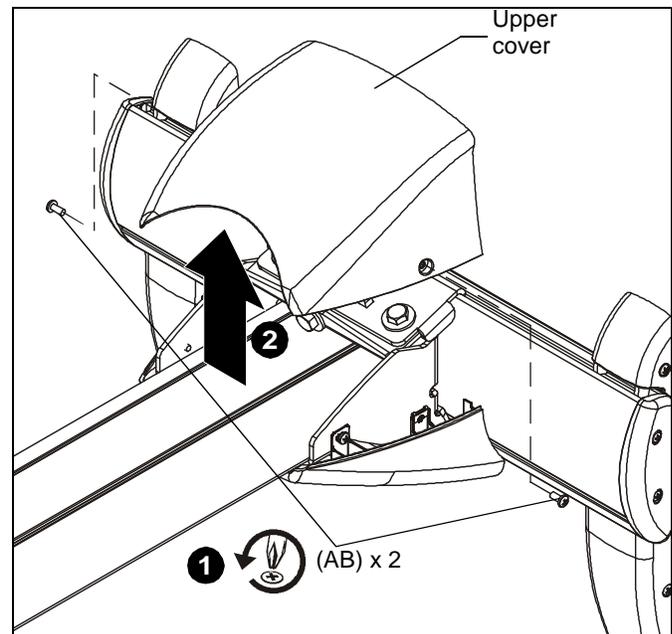


Figure 43

- Remove two 8-32 x 3/8" Phillips pan head screws (AB) from lower cover. (See Figure 44)

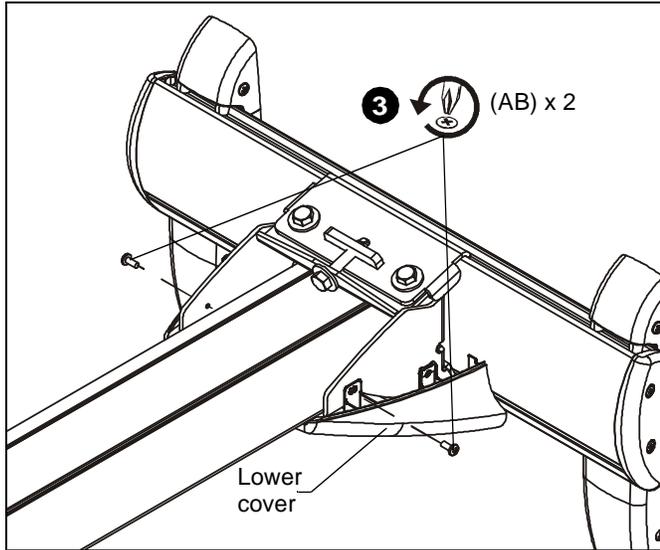


Figure 44

- Install two 8-32 x 3/8" button head security screws (AA) into lower cover. (See Figure 45)

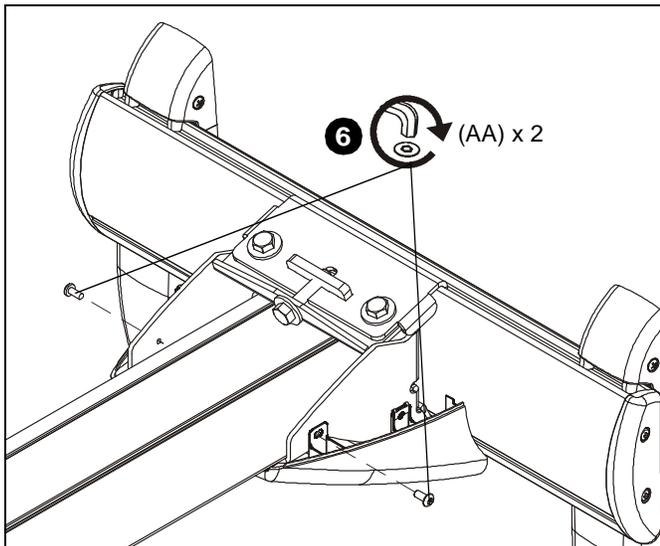


Figure 45

- Replace upper cover and install two 8-32 x 3/8" button head security screws (AA) into upper cover. (See Figure 46)

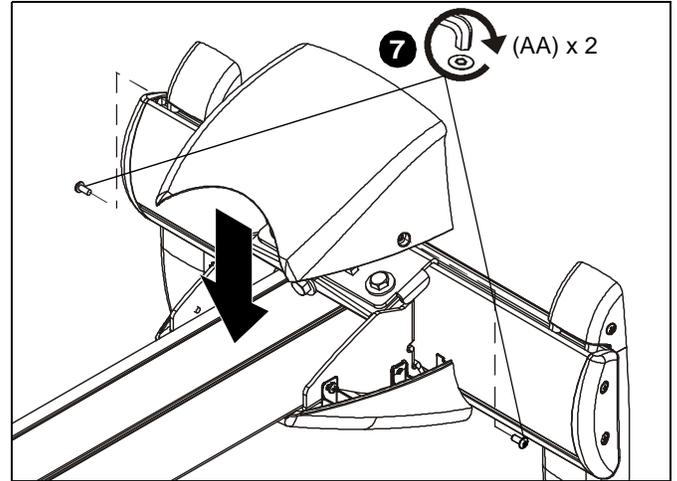


Figure 46

Stop Bracket

- Remove two bolts holding stop bracket in place on underside of short throw projector mount. (See Figure 47)

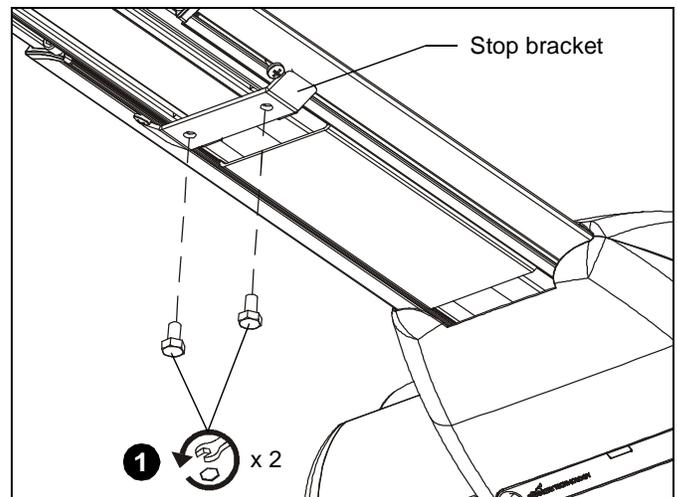


Figure 47

2. Install two 1/4-20 x 1/2" button head security screws (T) through holes in stop bracket and into holes in sliding nuts. (See Figure 48)

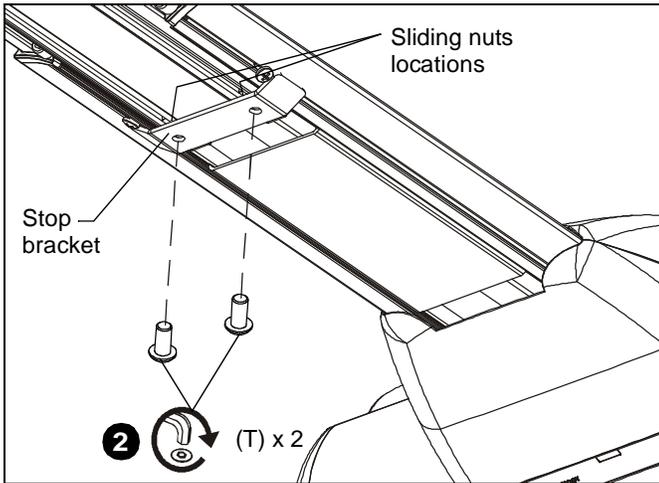


Figure 48

Adapter Plate Bolts

1. Remove projector from short throw projector mount according to projector interface instructions.

NOTE: For most projectors, it will be necessary to remove projector prior to installing four security screws to projector bracket. For ease of installation, it is recommended to remove projector prior to performing the following steps.

WARNING: It is important to replace adapter plate bolts **ONE AT A TIME** or adapter plate could fall from mount during installation!

2. Remove one of four bolts from adapter plate. (See Figure 49)

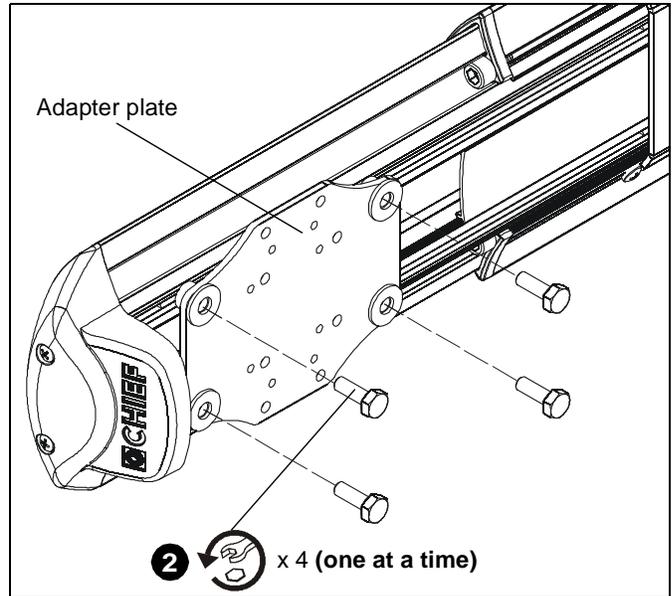


Figure 49

3. Install one 1/4-20 x 3/4" button head security screw (U) into hole (vacated by removed bolt in previous step) and into plastic spacer. (See Figure 50)
4. Repeat Steps 2-3 for remaining three bolts **one bolt at a time**.

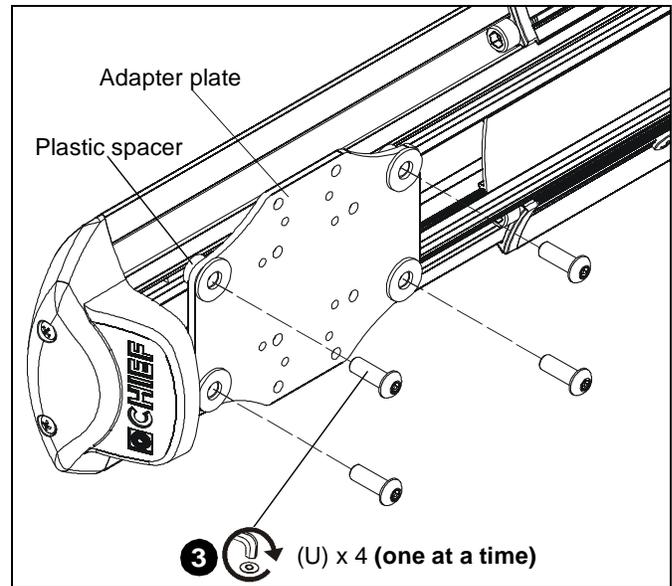


Figure 50

5. Reinstall projector according to interface instructions.

WM2XXS STANDARD MOUNT

Installing Mount Covers

1. Raise the lower cover (AK) to wall mount and hold in place. (See Figure 51)

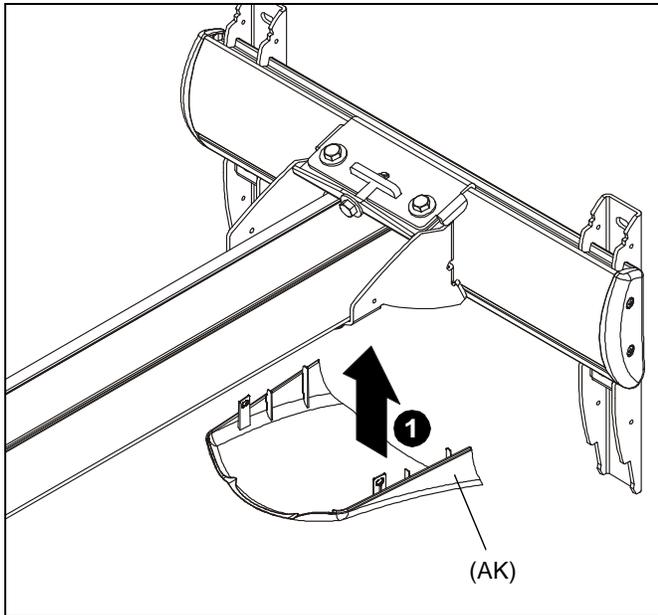


Figure 51

2. Lower the upper cover (AJ) onto the wall mount and fasten through upper cover (AJ), lower cover (AK) and into wall mount with two 8-32 x 1/2" Phillips pan head screws (F). (See Figure 52)

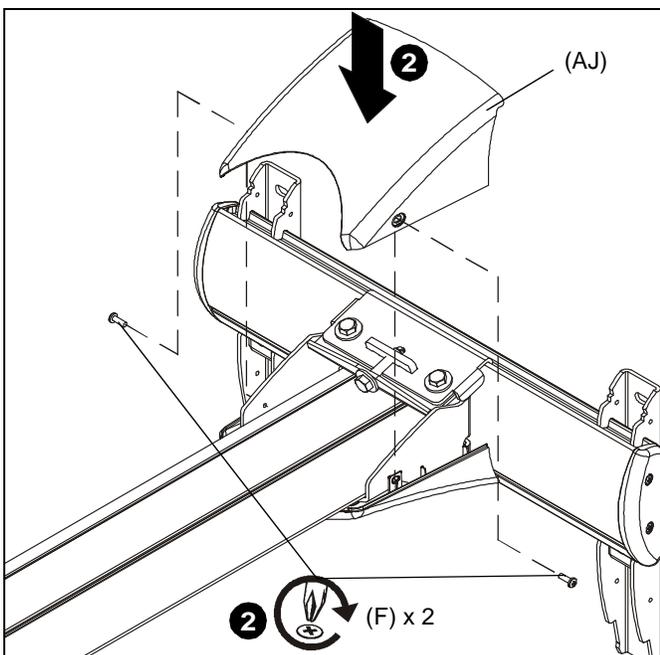


Figure 52

Cable Management (Optional)

In most cases, cable management covers will NOT need to be removed in order to route cables from projector to the wall mount. But for some thick cables, removing the covers may be necessary.

Removing Mount Covers

1. Remove and save two 8-32 x 1/2" Phillips pan head screws from upper cover. (See Figure 53)
2. Raise upper cover away from the mount. (See Figure 53)

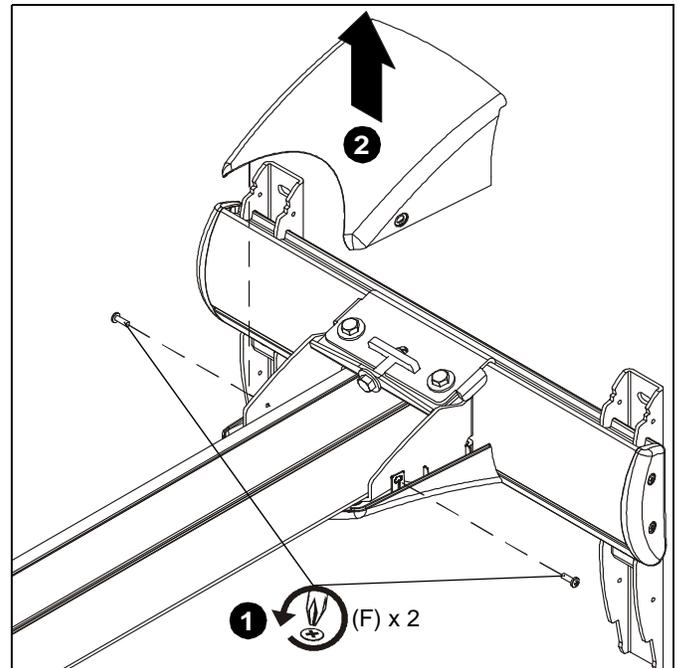


Figure 53

3. Remove lower cover from mount. (See Figure 54)

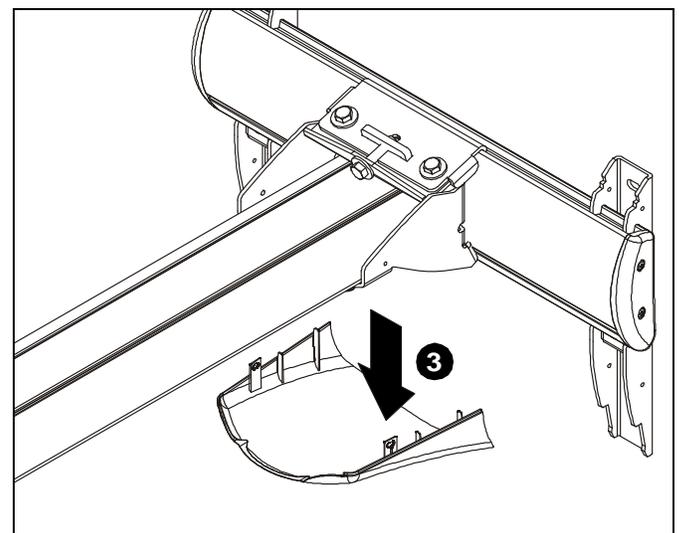


Figure 54

4. Remove cable management covers (if necessary) from short throw projector arm. (See Figure 55)

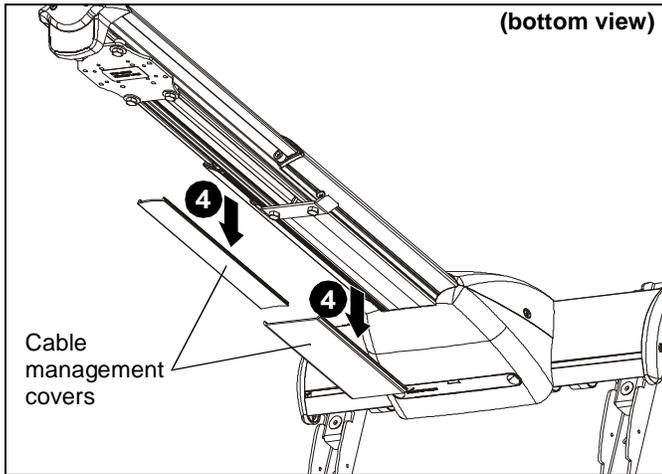


Figure 55

NOTE: Cables may be routed from below and up wall bracket channel, or from above and down behind and into wall mount.

- **Routing Cables from Below (Steps 5 and 6)**

5. Open cable clips along bottom edge of wall bracket. (See Figure 56)

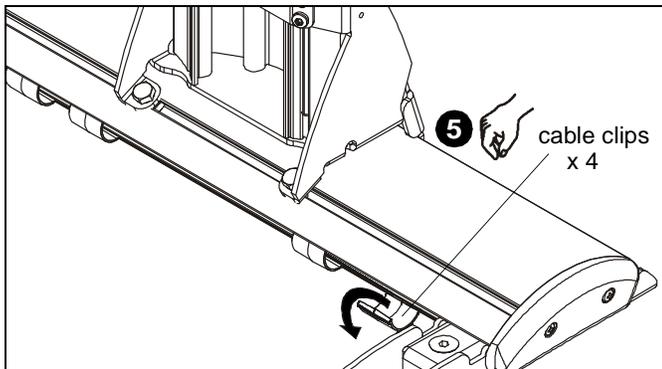


Figure 56

6. Thread cable up wall bracket channel and into opened cable clips. (See Figure 57) **Proceed to Step 8**

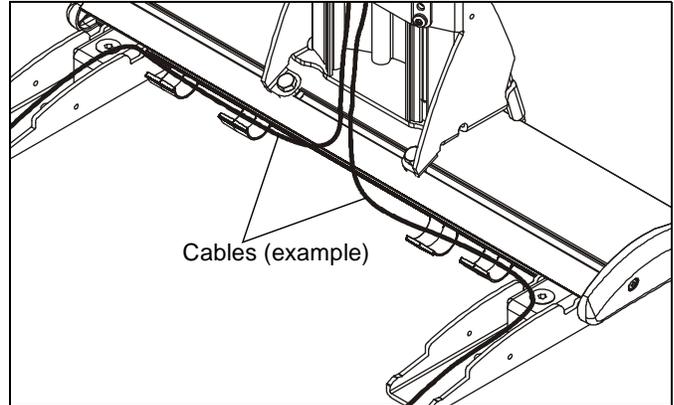


Figure 57

- **Routing Cables from Above (Step 7)**

7. Thread cables down through a surface mount cable accessory (not included), then behind and into the wall bracket. (See Figure 58) **Proceed to Step 8**

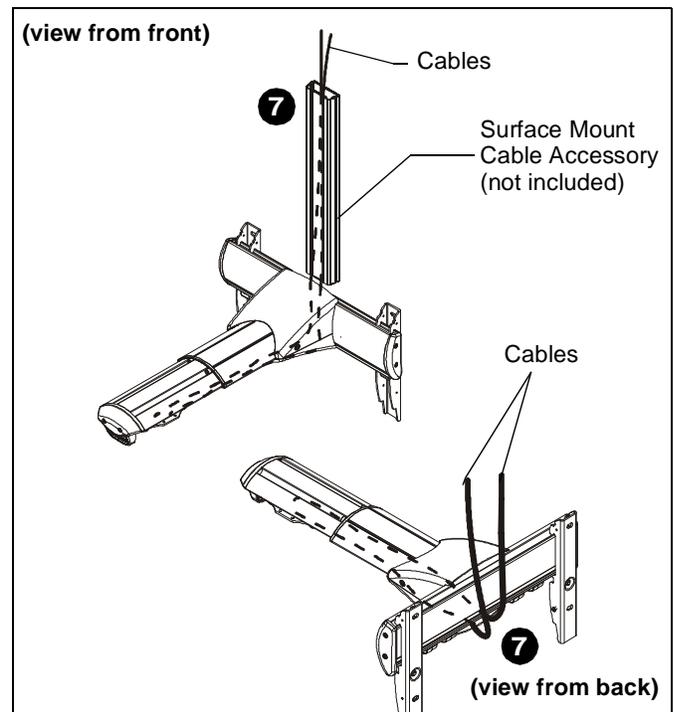


Figure 58

- Route cables through cover mount, projector arm tunnel and into projector. (See Figure 59)

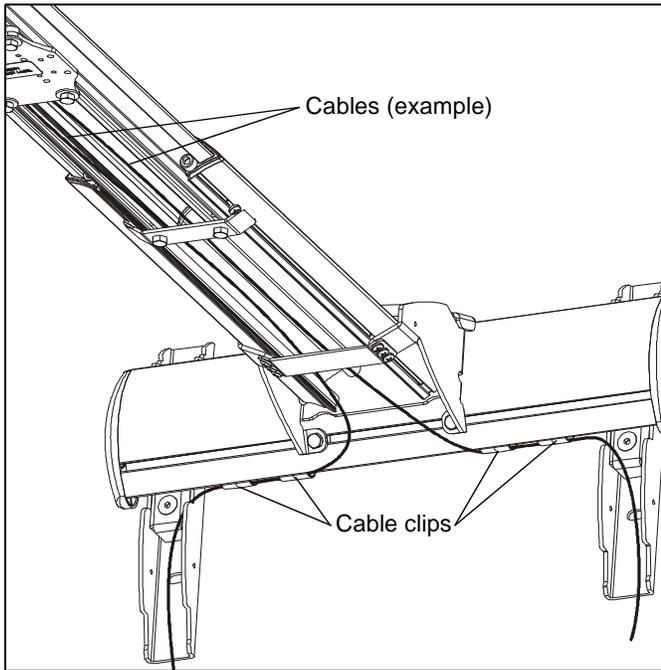


Figure 59

- (Optional)** Cables can be tied to inside of mount's front cover using cable ties (not included). Route cables near front cover and wrap cable tie through slots on front cover and around cables. (See Figure 60)

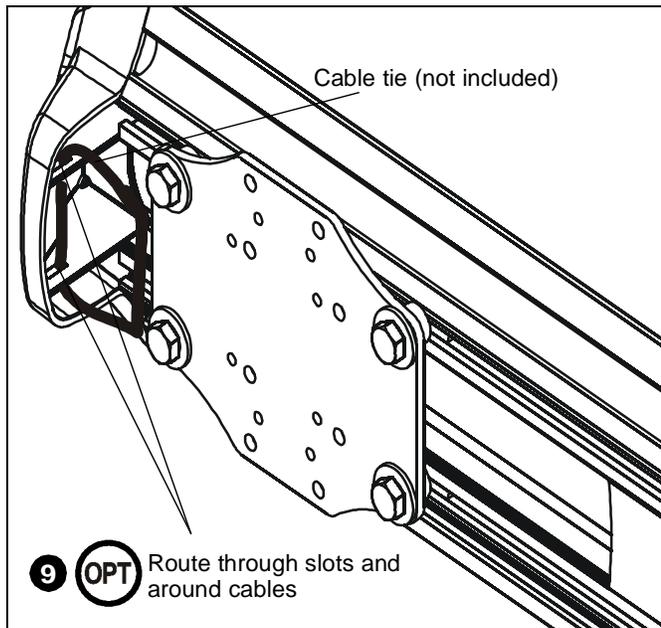


Figure 60

- Replace removed cable management covers (if necessary). Insert one side of cover into groove and press firmly on the cover on the other side until it snaps into the other groove. (See Figure 61)

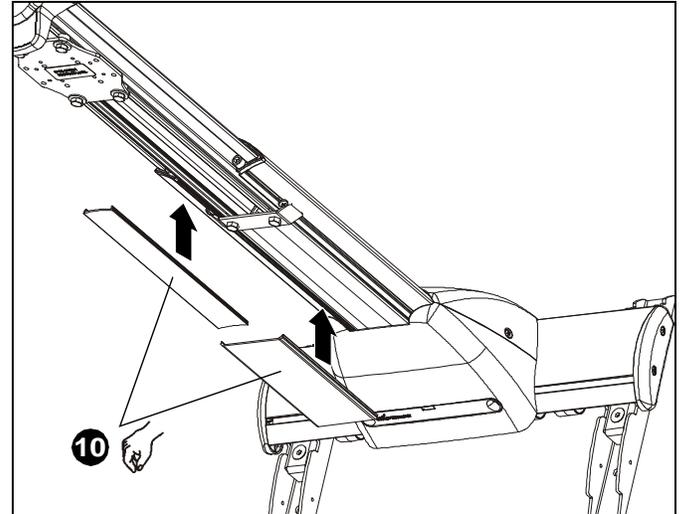


Figure 61

- Return outer covers to the mount following instructions in **Installing Mount Covers** section.

Installation of Wall Bracket Covers

NOTE: If security screws are going to be used, use the security screws (V) to install wall bracket covers. See **Security Screw Installation** section for details.

- Place wall bracket top caps (C) over top of each wall bracket arm. (See Figure 62)

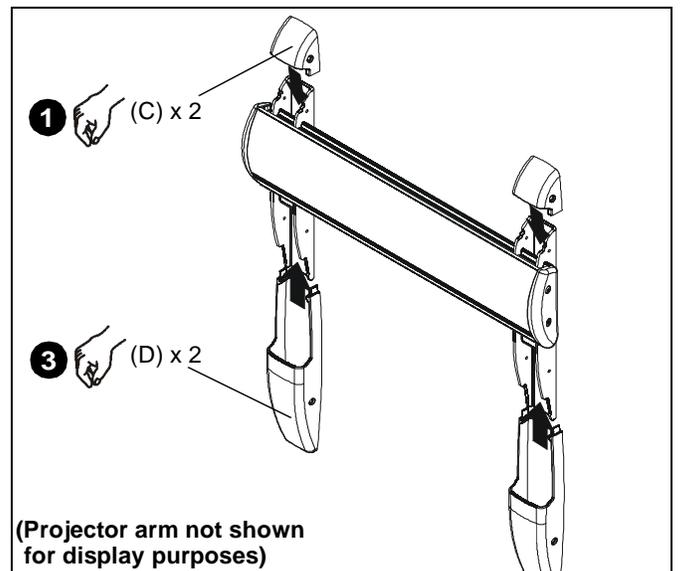


Figure 62

- Secure wall bracket top caps (C) to wall bracket arms by installing four #8-32 x 1/2" Phillips pan machine screws (F) through holes in covers and wall bracket. (See Figure 63)
- Place wall bracket bottom caps (D) over bottom of each wall bracket arm. (See Figure 62)

- Secure wall bracket bottom caps (D) to wall bracket arms by installing four #8-32 x 1/2" Phillips pan machine screws (F) through holes in covers and wall bracket. (See Figure 63)

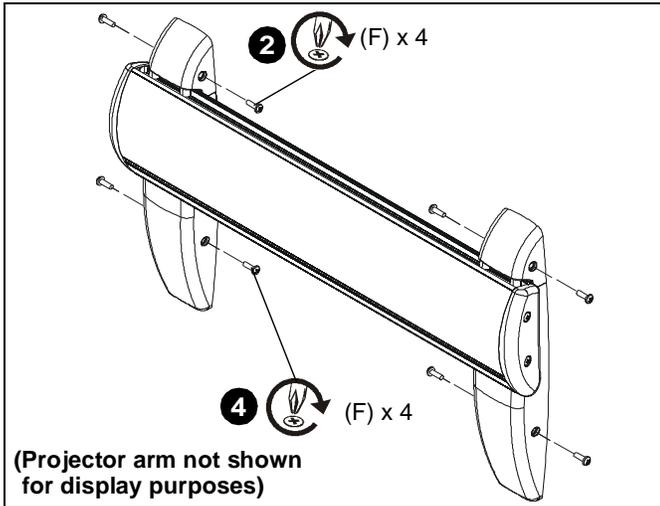


Figure 63

Adjustments

Bracket Width Adjustment

- Loosen two flat head cap screws on wall bracket. (See Figure 64)
- Slide wall brackets to corresponding width of studs. (See Figure 64)
- Tighten two flat head cap screws on wall bracket. (See Figure 64)

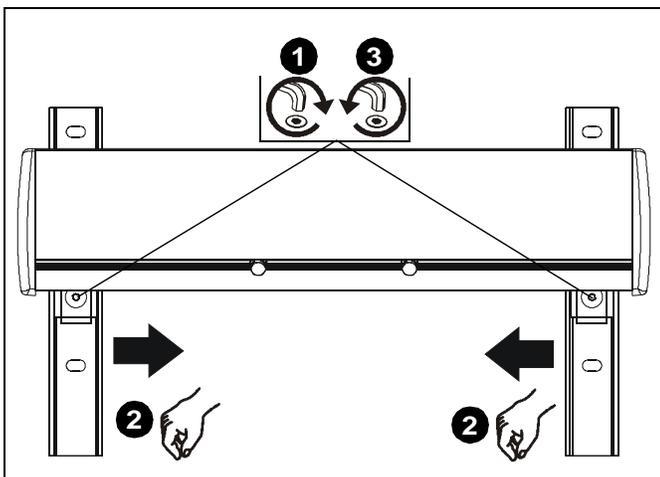


Figure 64

Pitch Adjustment

IMPORTANT ! : The mount covers need to be removed before proceeding with pitch adjustment.

NOTE: Remove mount covers from the mount following instructions in **Removing Mount Covers** section.

- Loosen two 1/4-20 x 5/8" hex head cap screws (E) on underside of mounting bracket. (See Figure 65)

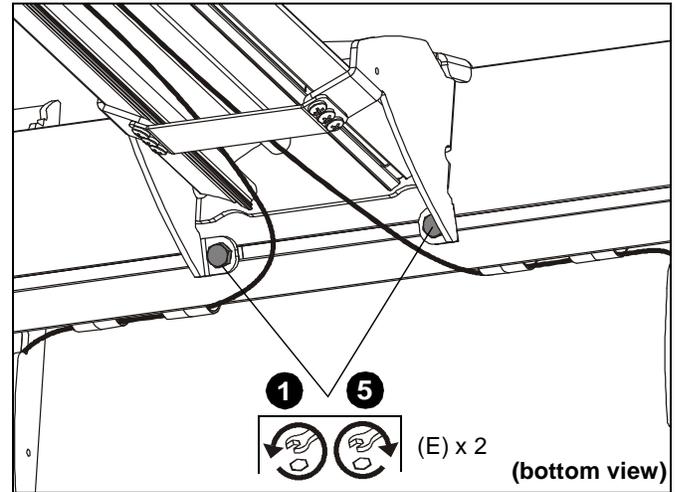


Figure 65

- Loosen two bolts on either side of pitch adjustment screw. (See Figure 66)
- Adjust pitch adjustment screw until mount is at desired pitch level. Turn clockwise to raise mounting level or turn counterclockwise to lower mounting level. (See Figure 66)
- Tighten two bolts on either side of pitch adjustment screw. (See Figure 66)
- Tighten two 1/4-20 x 5/8" screws (E) on underside of mounting bracket. (See Figure 65)

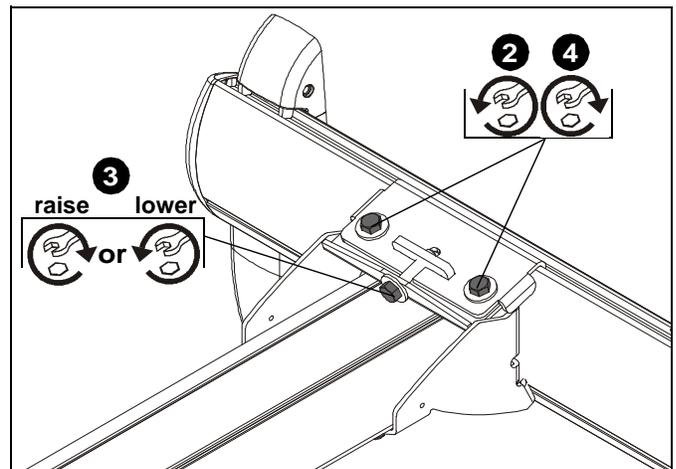


Figure 66

- Return outer covers to the mount following instructions in **Installing Mount Covers** section.

Extension Adjustment

- Loosen two bolts holding stop bracket in place on underside of short throw projector mount. (See Figure 67)
- Adjust mount to desired extension length. (See Figure 67)
- Tighten two bolts holding stop bracket to secure mount in desired position. (See Figure 67)

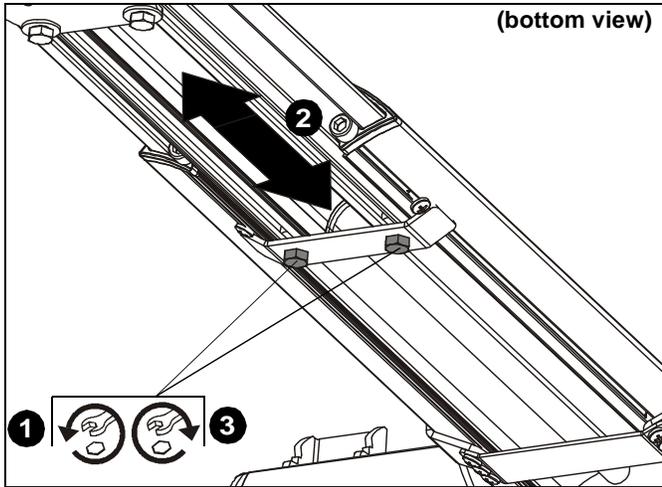


Figure 67

Lateral Shift Adjustment

IMPORTANT ! : The mount covers need to be removed before proceeding with lateral shift adjustment.

NOTE: Remove mount covers from the mount following instructions in **Removing Mount Covers** section.

1. Loosen two 1/4-20 x 5/8" hex head cap screws (E) on underside of mounting bracket. (See Figure 68)
2. Adjust projector arm laterally to desired position. (See Figure 68)
3. Tighten two 1/4-20 x 5/8" hex head cap screws (E) loosened in Step 1. (See Figure 68)

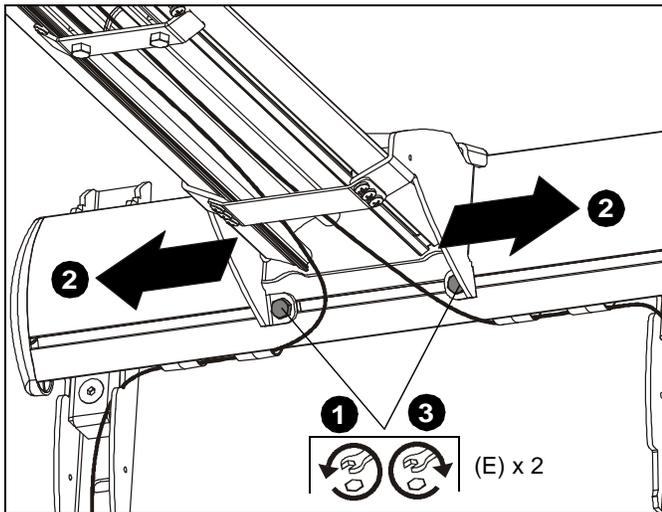


Figure 68

4. Return outer covers to the mount following instructions in **Installing Mount Covers** section.

Security Screw Installation (Optional)

Wall Bracket Covers

1. Remove eight #8-32 x 1/2" Phillips pan machine screws (F) from wall bracket covers. (See Figure 69)

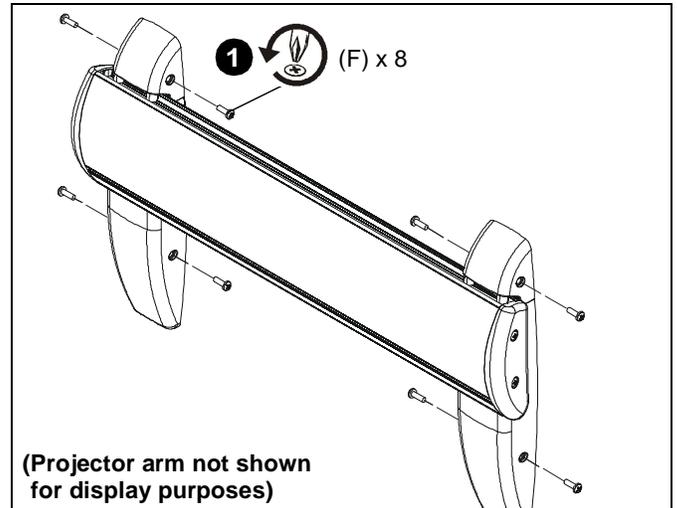


Figure 69

2. Install eight #8-32 x 1/2" button head security screws (V) into holes in wall bracket covers. (See Figure)

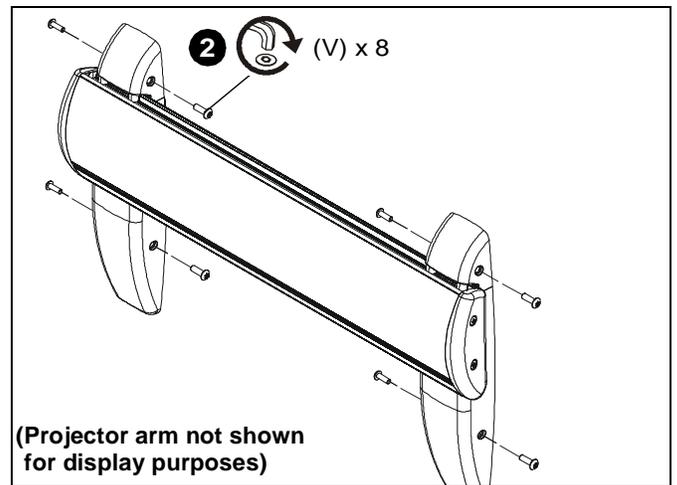


Figure 70

Mount Covers

1. Remove two #8-32 x 1/2" Phillips pan machine screws (F) holding mount covers on projector arm. (See Figure 71)
2. Install two #8-32 x 1/2" button head security screws (V) into holes on mount cover. (See Figure 71)

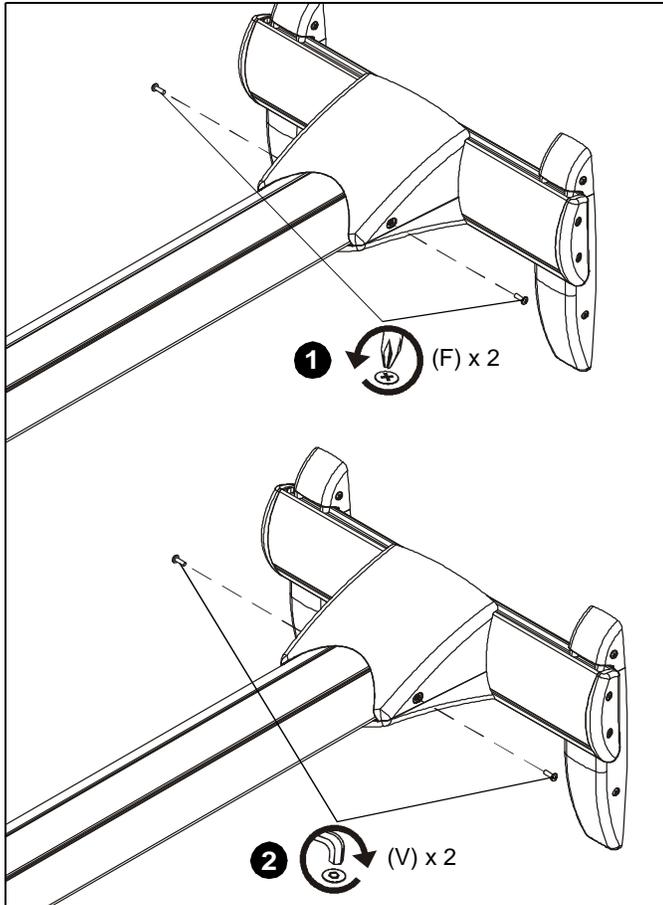


Figure 71

Stop Bracket

1. Remove two bolts holding stop bracket in place on underside of short throw projector mount. (See Figure 72)

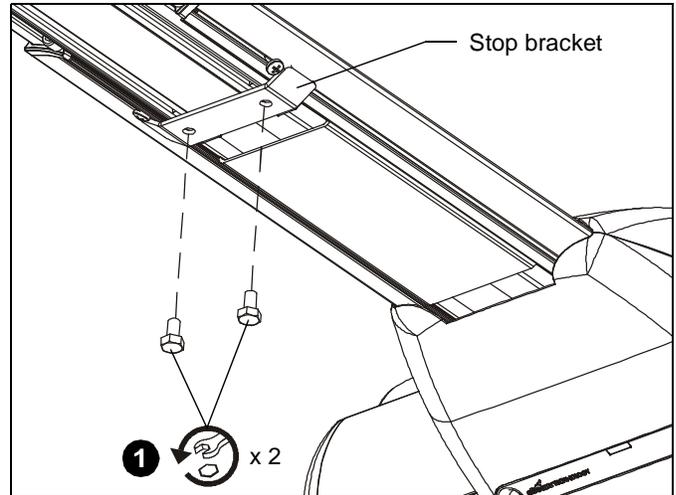


Figure 72

2. Install two 1/4-20 x 1/2" button head security screws (T) through holes in stop bracket and into holes in sliding nuts. (See Figure 73)

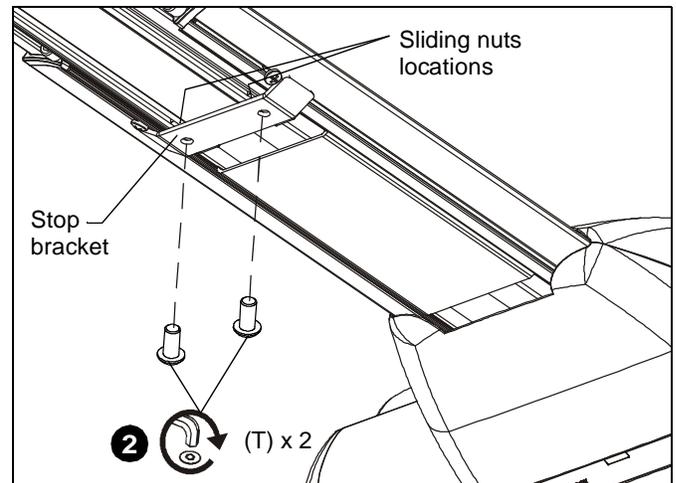


Figure 73

Adapter Plate Bolts

1. Remove projector from short throw projector mount according to projector interface instructions.

NOTE: For most projectors, it will be necessary to remove projector prior to installing four security screws to projector bracket. For ease of installation, it is recommended to remove projector prior to performing the following steps.



WARNING: It is important to replace adapter plate bolts **ONE AT A TIME** or adapter plate could fall from mount during installation!

2. Remove one of four bolts from adapter plate. (See Figure 74)

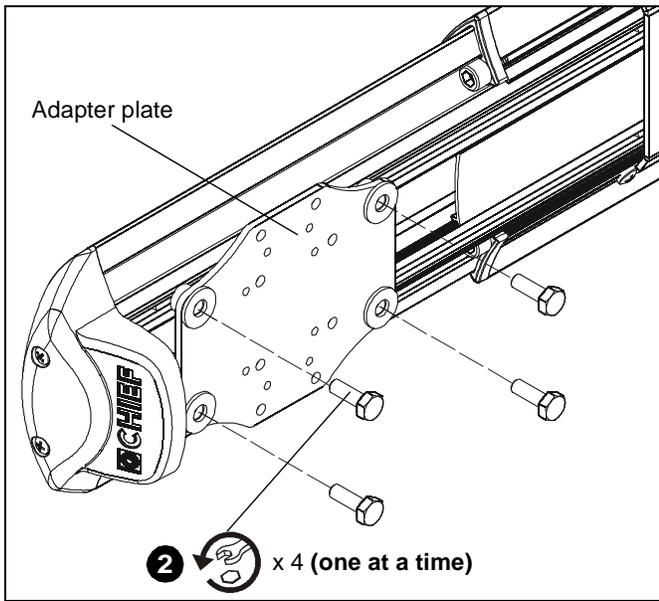


Figure 74

3. Install one 1/4-20 x 3/4" button head security screw (U) into hole (vacated by removed bolt in previous step) and into plastic spacer. (See Figure 75)
4. Repeat Steps 2-3 for remaining three bolts **one bolt at a time**.

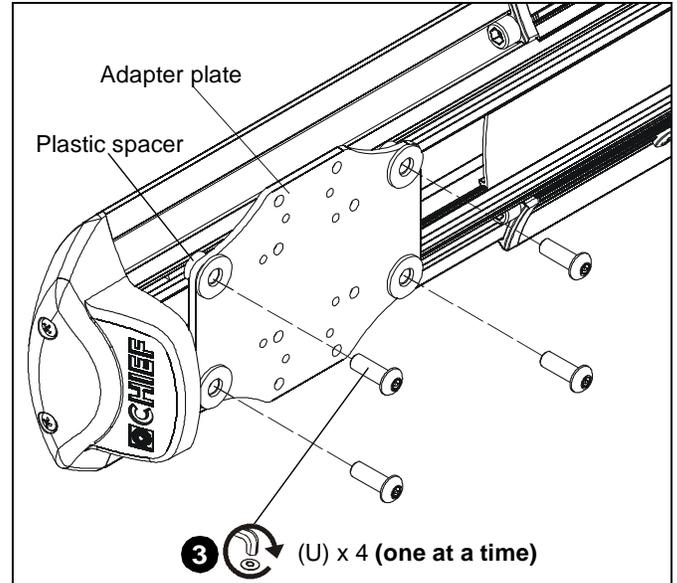


Figure 75

Reinstall projector according to interface instructions.



Our Mounts. **Your Vision.**

Chief Manufacturing, a products division
of Milestone AV Technologies

8802-002082 Rev03
©2011 Milestone AV Technologies, a
Duchossois Group Company
www.chiefmfg.com
12/11

USA/International	A 8401 Eagle Creek Parkway, Savage, MN 55378 P 800.582.6480 / 952.894.6280 F 877.894.6918 / 952.894.6918
Europe	A Franklinstraat 14, 6003 DK Weert, Netherlands P +31 (0) 495 580 852 F +31 (0) 495 580 845
Asia Pacific	A Office No. 1 on 12/F, Shatin Galleria 18-24 Shan Mei Street Fotan, Shatin, Hong Kong P 852 2145 4099 F 852 2145 4477

