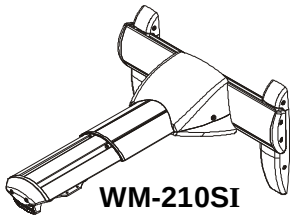
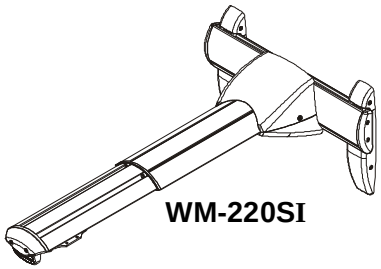
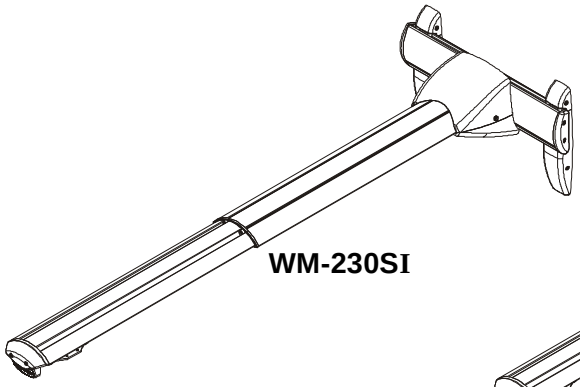
INSTALLATION INSTRUCTIONS



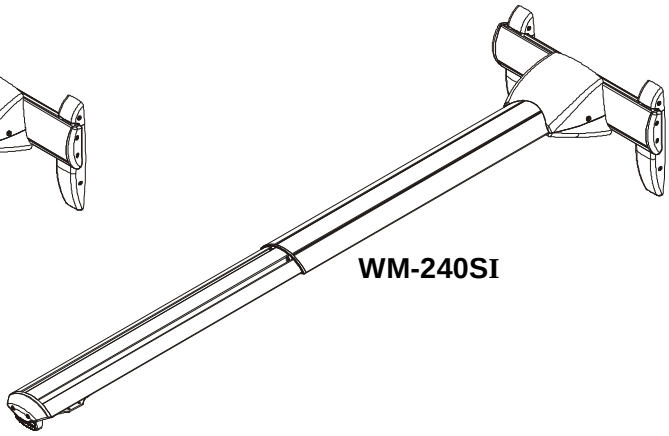
WM-210SI



WM-220SI



WM-230SI



WM-240SI

Dual Stud Short Throw Wall Mounts

CHIEF®

Our Mounts. **Your Vision.**

WM210-220-230-240S/SI

WM210-220-230-240AUS/AUSI

DISCLAIMER

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IMPORTANT SAFETY INSTRUCTIONS

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. The wall to which the mount is being attached may have a **maximum** drywall thickness of 5/8" (15.9mm) for wood studs; and a **minimum** drywall thickness of 1/2" (12.7mm) for steel studs.

WARNING: Use this mounting system only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.

WARNING: Never operate this mounting system if it is damaged. Return the mounting system to a service center for examination and repair.

WARNING: Do not use this product outdoors.

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 do not exceed the mounting system's weight capacity. (See Table 1)

- The weight capacity of the short throw projector mounts may be LIMITED to the lowest weight capacity of any other component or accessory used within the mounting system!

IMPORTANT ! : The short throw projector mounts are designed to be mounted to an 8" concrete, 8"x8"x16" concrete block, 2" x 4" wood studs (16" on center), or 2" x 4"-25ga minimum steel studs wall.

--SAVE THESE INSTRUCTIONS--

Table 1: Weight Capacities

Model	Maximum Weight Capacity of Mounting System
WM210S	50 lbs (22.7 kg)
WM220S	50 lbs (22.7 kg)
WM230S	25 lbs (11.3 kg)
WM240S	25 lbs (11.3 kg)
WM210AUS	25 lbs (11.3 kg)
WM220AUS	25 lbs (11.3 kg)
WM230AUS	25 lbs (11.3 kg)
WM240AUS	25 lbs (11.3 kg)
WM210SI	50 lbs (22.7 kg)
WM220SI	50 lbs (22.7 kg)
WM230SI	25 lbs (11.3 kg)
WM240SI	25 lbs (11.3 kg)
WM210AUSI	25 lbs (11.3 kg)
WM220AUSI	25 lbs (11.3 kg)
WM230AUSI	25 lbs (11.3 kg)
WM240AUSI	25 lbs (11.3 kg)

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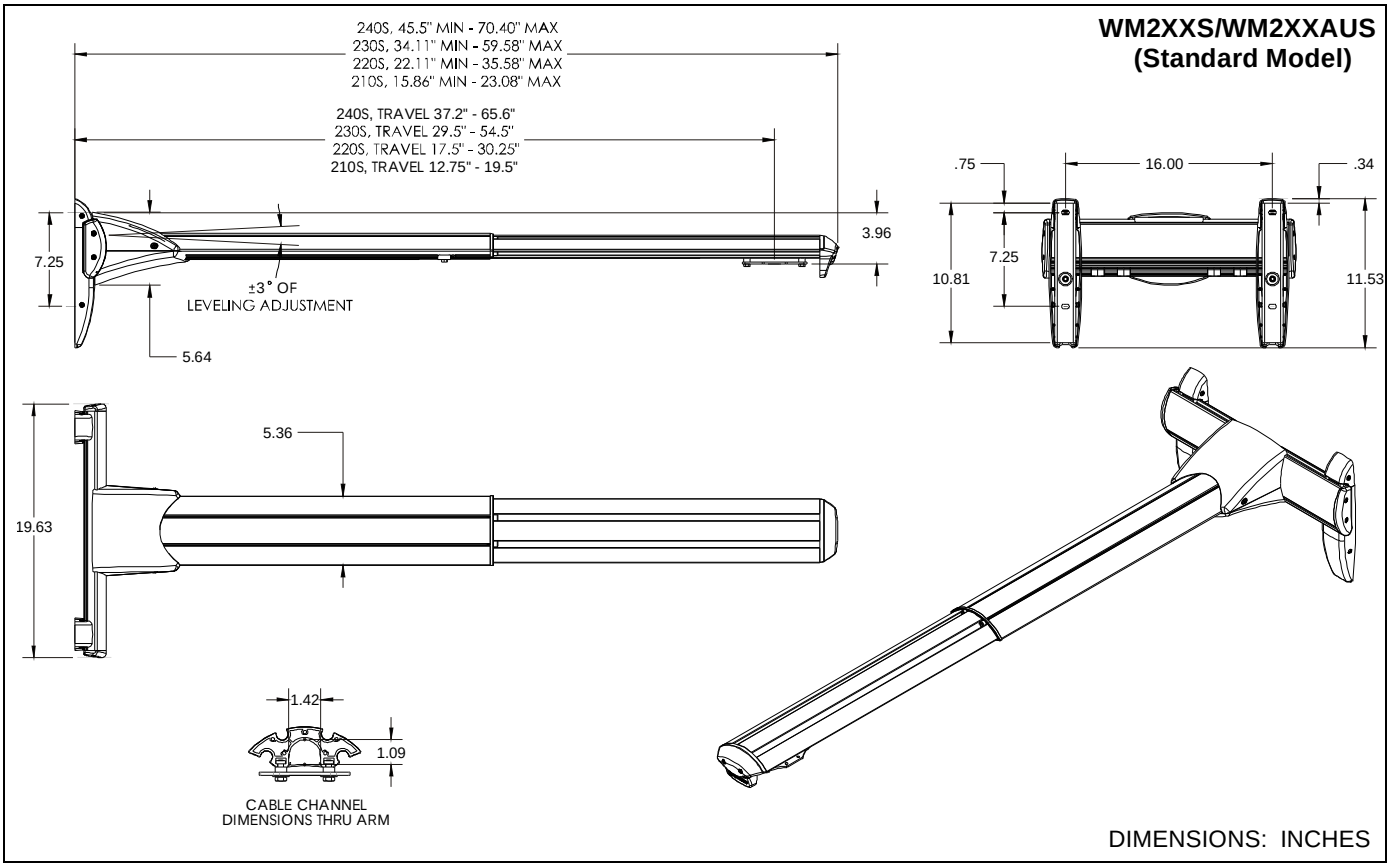
NOTE: WM210S/SI, WM220S/SI, WM230S/SI and WM240S/SI are required to use UL Listed accessories [projector interfaces--Models RPM, RPA, RSM or RSA (not included)] in order to complete the mounting system. UL Listed RSM is included with WM210AUS/AUSI, WM220AUS/AUSI, WM230AUS/AUSI and WM240AUS/AUSI.

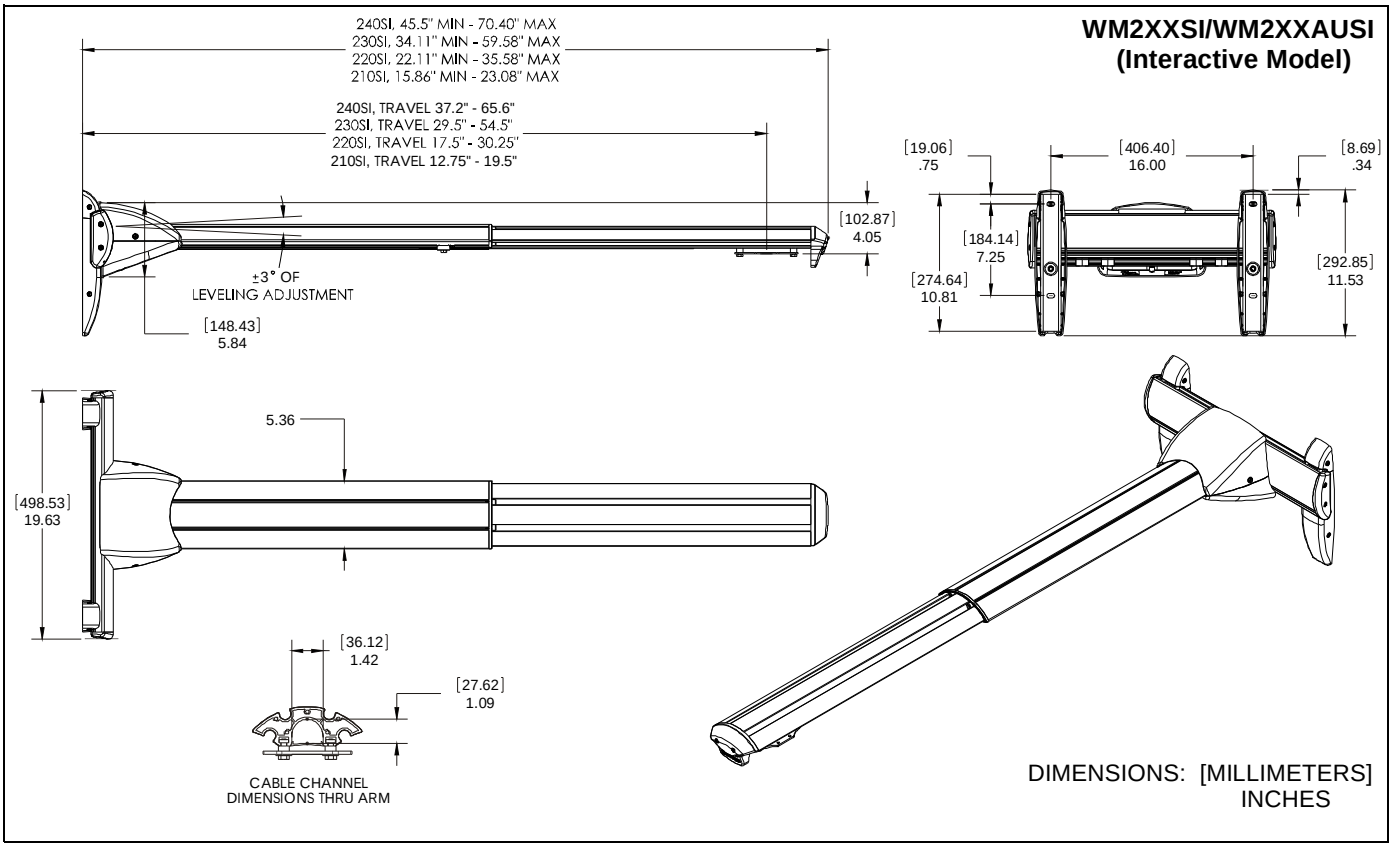
DIMENSIONS

WM2XXS/WM2XXAUS
(Standard Model)



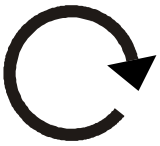
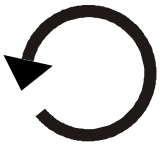
DIMENSIONS: INCHES

WM2XXSI/WM2XXAUSI
(Interactive Model)

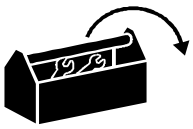


DIMENSIONS: [MILLIMETERS]
INCHES

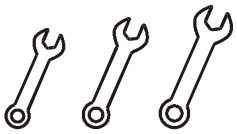
LEGEND

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

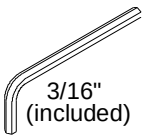
TOOLS REQUIRED FOR INSTALLATION



1/2" (12.7mm)
3/8" (9.5mm)
7/32" (5.6mm)



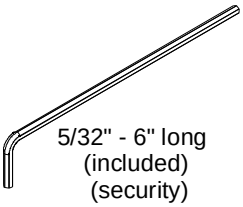
1/2" (12.7mm)



3/16"
(included)

5/32"
(included)
(security)

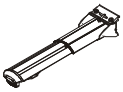
#2



5/32" - 6" long
(included)
(security)

PARTS

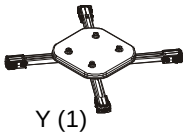
All Models



A (1)
[Short throw wall mount]
(WM220 shown as example only)

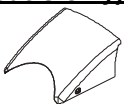
(WM2XXAUS/AUSI Models Only)

X (1)
[RSM]

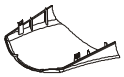


Y (1)
[SSMU interface bracket]

(WM2XXS/WM2XXAUS Models Only)

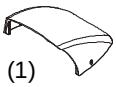


AJ (1)
[Upper cover]

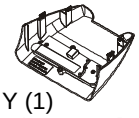


AK (1)
[Lower cover]

(WM2XXSI/WM2XXAUSI Interactive Models Only)

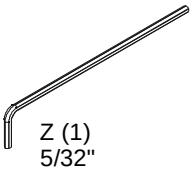


X (1)
[Cover-top]



Y (1)
[Interactive cover]

Quick Start
Guide



Z (1)
5/32"
(security)

AA (4)
8-32 x 3/8"
(security)

AB (4)
8-32 x 3/8"

AE (1)
[Stylus]

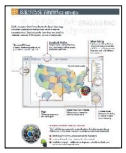
AC (1)
[Interactive
software]

AD (1)
[AAA battery]

AF (4)
[Stylus
replacement
tips]

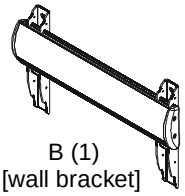
AG (1)
[Stylus
wrist strap
kit]

AH (1)
[Interactive
USB cable]



Interactive
Software
Guide

All Models



B (1)
[wall bracket]

C (2)
[wall bracket
top cap]

D (2)
[wall bracket
bottom cap]

E (2)
1/4-20 x 5/8"

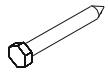
F (10)
#8-32 x 1/2"

G (4)
1/4-20 x 3/8"

H (4)
1/4-20 x 1-1/2"

J (4)
#10-24 x 1-3/8"

K (4)
[concrete
anchor]



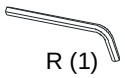
L (4)
5/16 x 2-1/2"

M (6)
5/16"

N (4)
1/4-20 x 1-3/4"

P (4)
1/4-20

Q (4)
1/4"



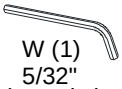
R (1)
3/16"

S (4)
#10-24 x 3/8"

T (2)
1/4-20 x 1/2"
(security)

U (4)
1/4-20 x 3/4"
(security)

V (10)
#8-32 x 1/2"
(security)



W (1)
5/32"
(security)

SITE REQUIREMENTS - Steel Stud Structure (All Models)

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)

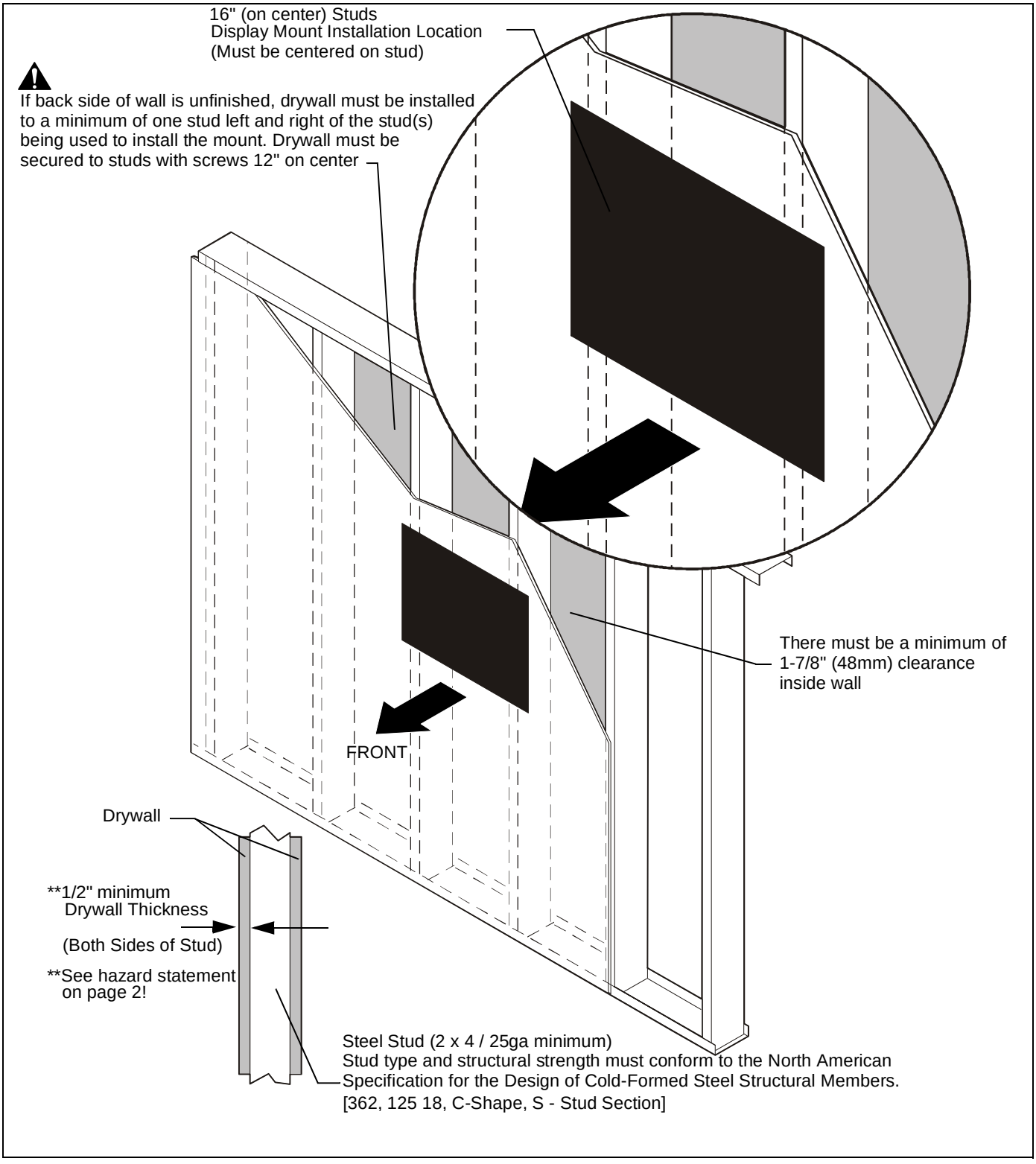


Figure 1

WS2XXSI/WS2XXAUSI INTERACTIVE MODELS ONLY

The Chief Interactive Mount (WM2XXSI/WM2XXAUSI) 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

NOTE: Input to the interactive cartridge through the USB connector shall be limited to 5V, 0.2A max.

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.

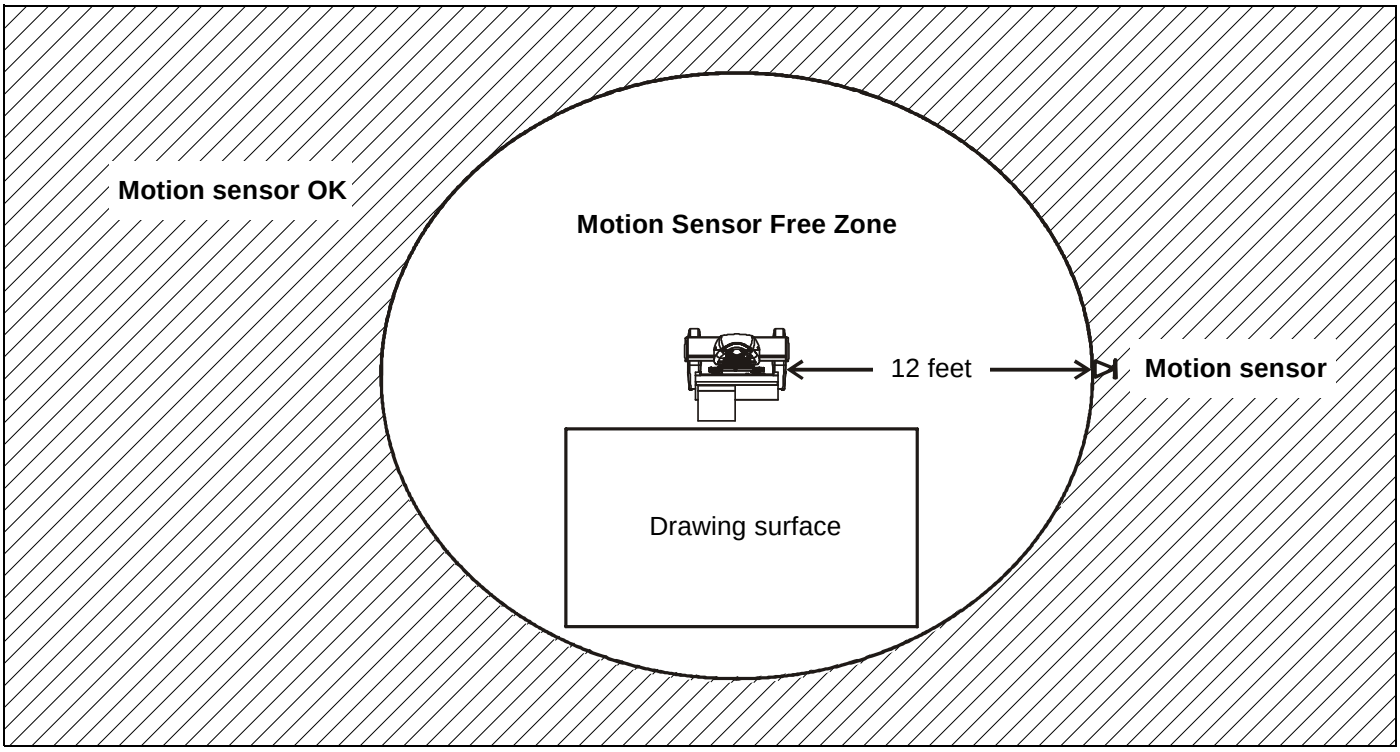


Figure 2

WM2XXSI/WM2XXAUSI 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.

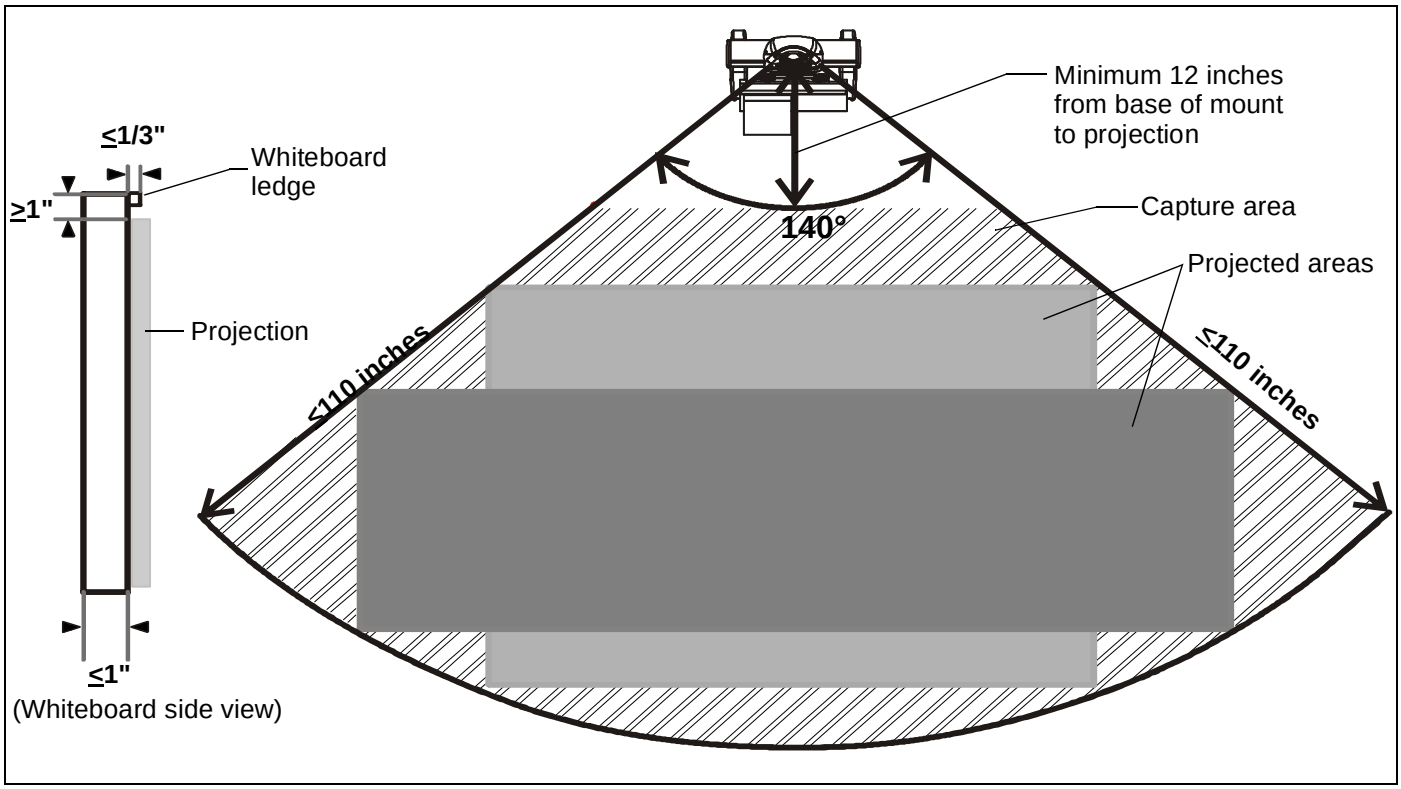


Figure 3

INSTALLATION - (All Models)

The WM2XXS/SI/AUS/AUSI 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 16" apart.

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)

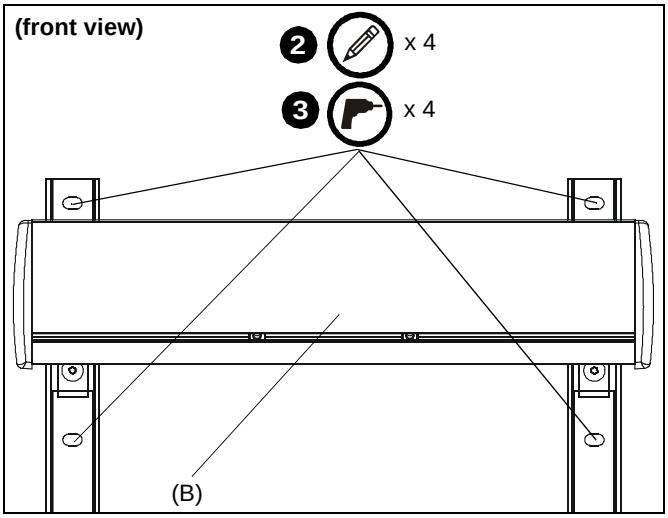


Figure 4

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)

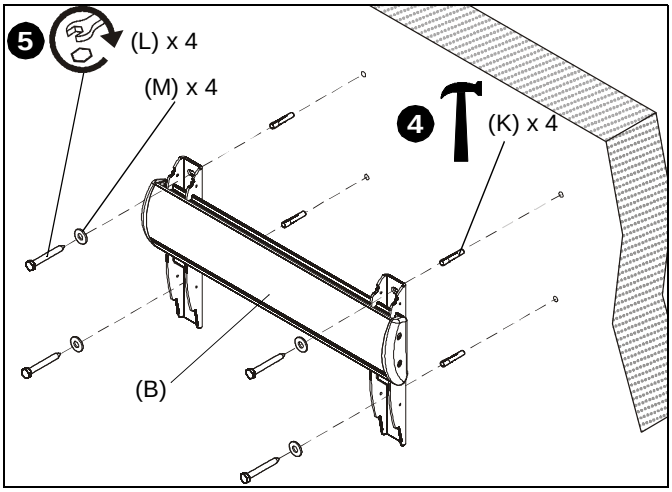


Figure 5

Wood Studs

WARNING: The wall to which the mount is being attached may have a maximum drywall thickness of 5/8" (1.6cm).

1. Determine mounting location on wall. Use a stud finder to locate 2" x 4" wood studs.
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)

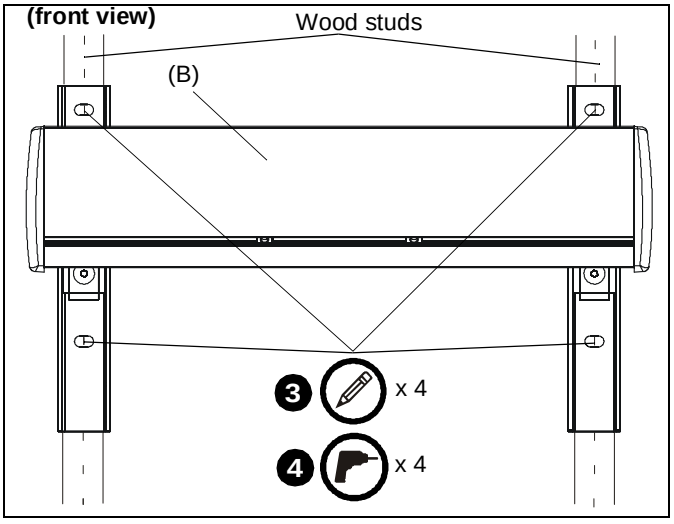


Figure 6

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)

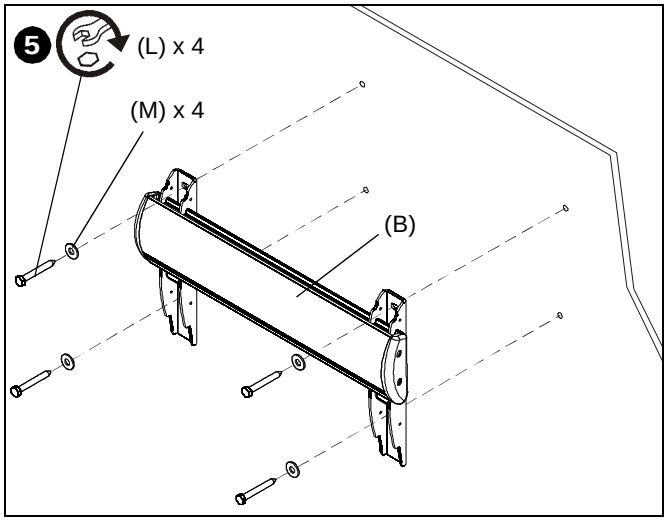


Figure 7

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.
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)

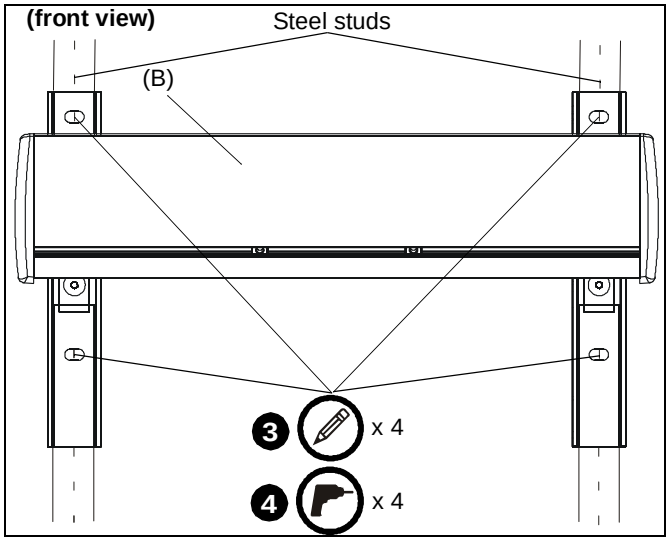


Figure 8

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

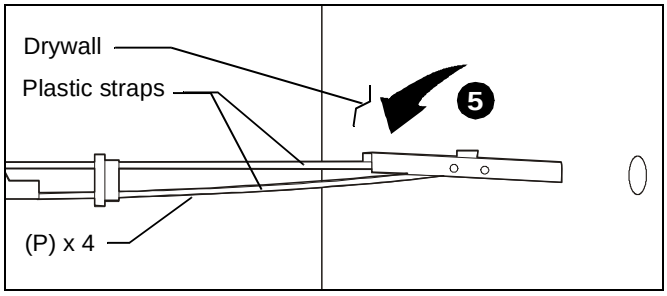


Figure 9

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)

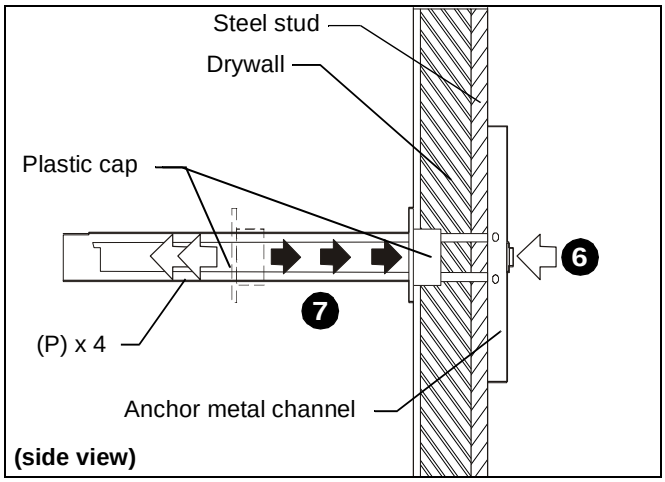


Figure 10

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.

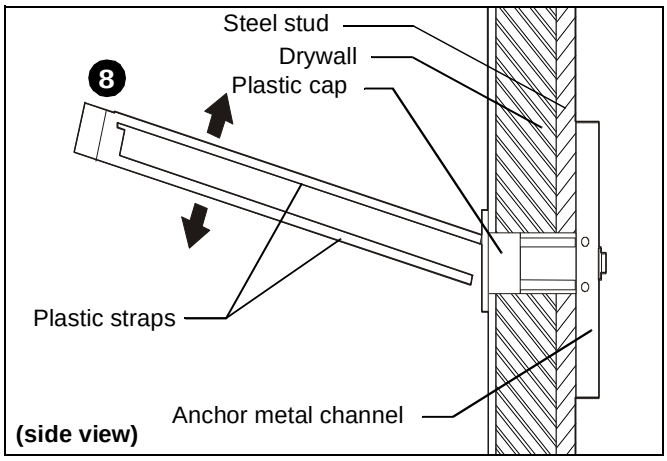


Figure 11

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!

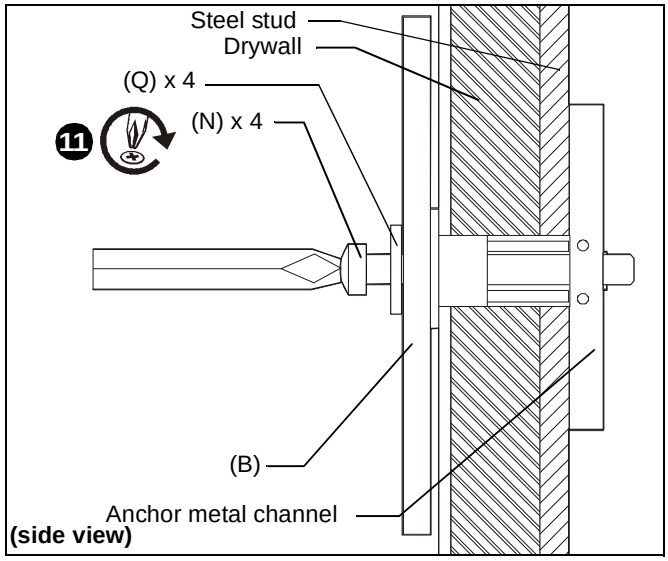


Figure 12

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)

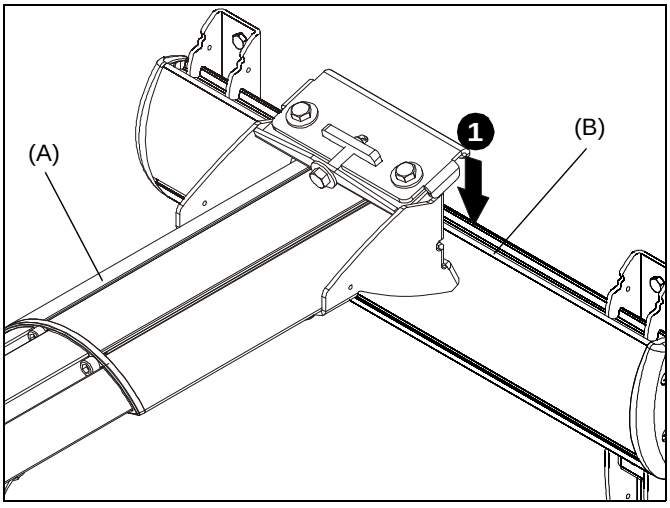


Figure 13

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

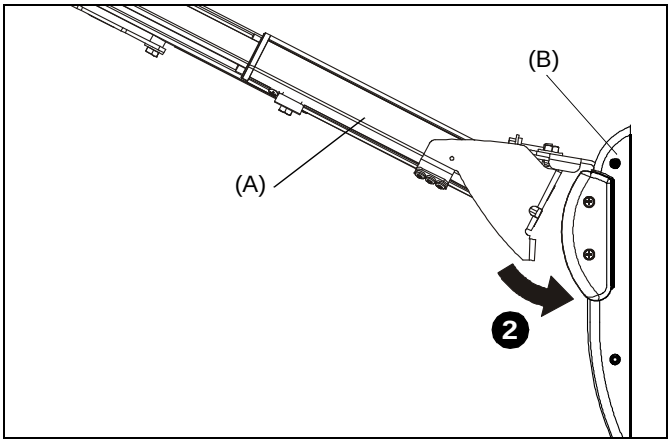


Figure 14

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)

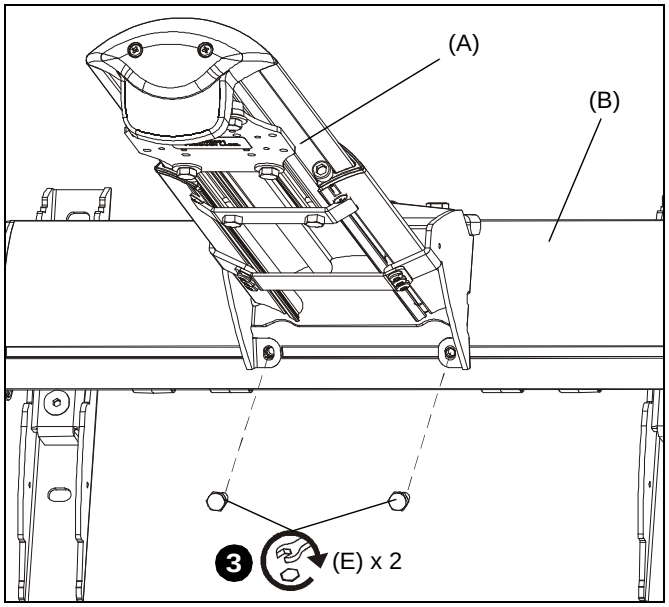


Figure 15

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)

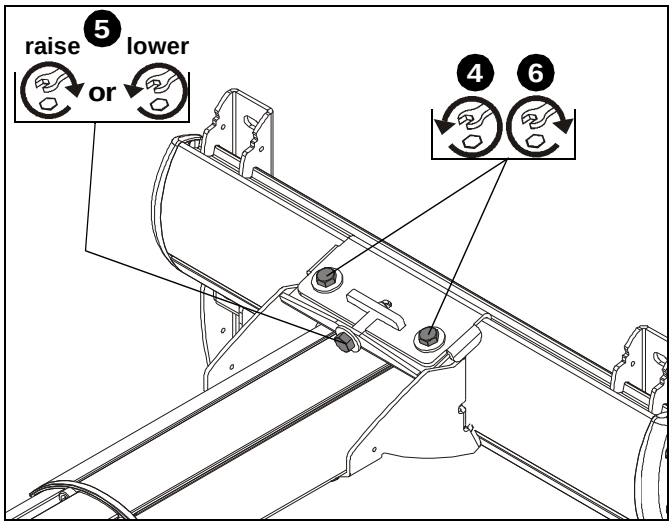


Figure 16

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 do not exceed the mounting system's weight capacity. (See Table 1)

NOTE: UL Listed Chief projector interfaces RPM, RPA and RSA are sold separately. RSM (X) is included with WM2XXAUS/WM2XXAUSI models.

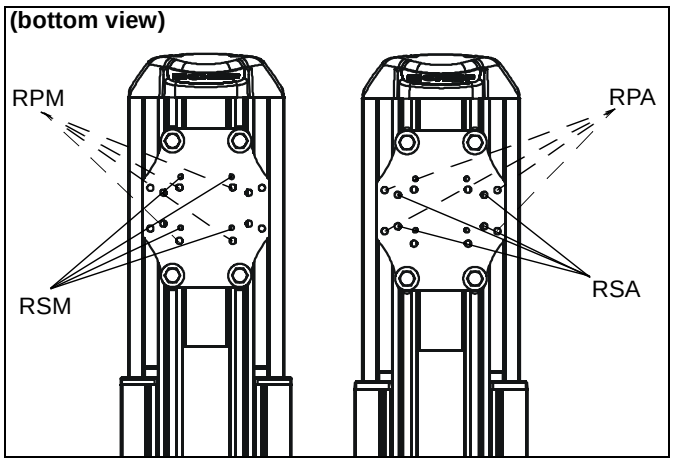


Figure 17

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

UL Listed 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)

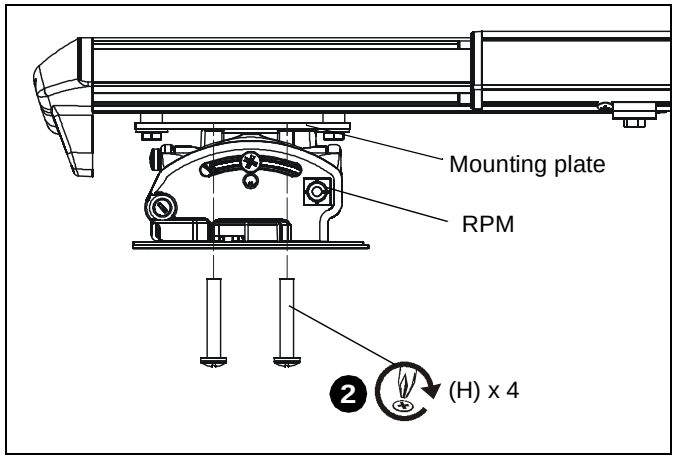


Figure 18

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

UL Listed RSM Installation (included with WM2XXAUS/AUSI models)

1. Line up mounting holes on RSM mount (X) 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)

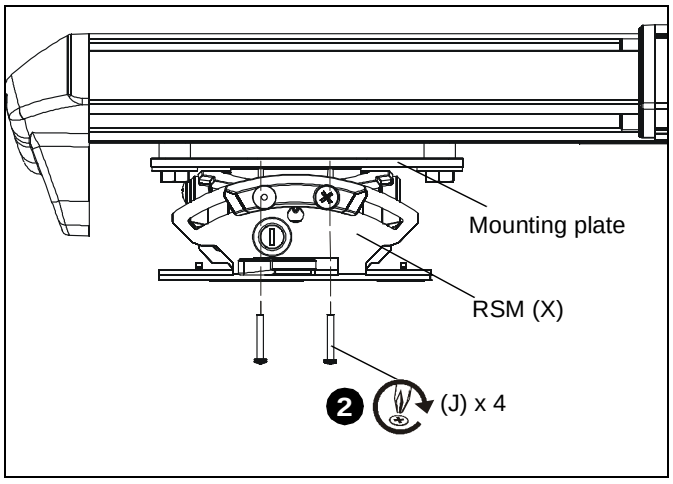


Figure 19

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

UL Listed 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)

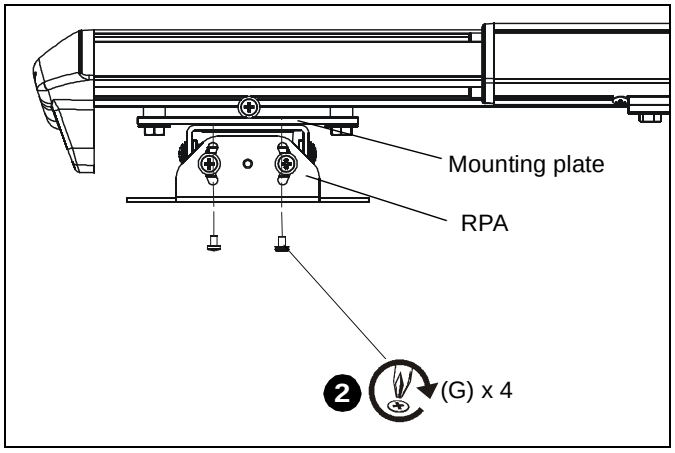


Figure 20

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

UL Listed 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)

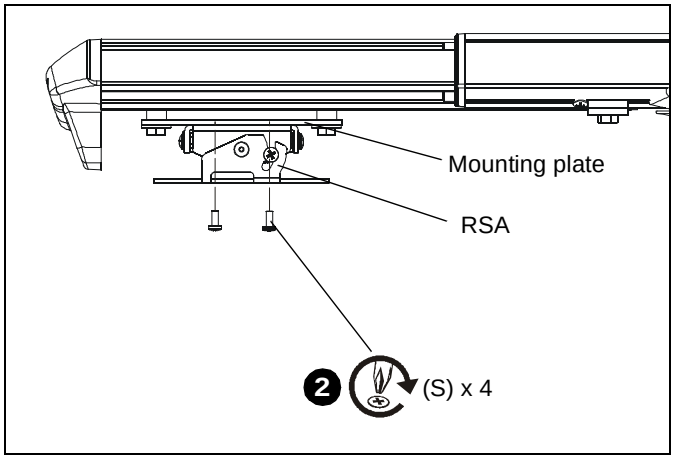


Figure 21

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

IMPORTANT ! : Complete the installation by proceeding to **WM2XXSI/WM2XXAUSI Interactive Mount** section or **WM2XXS/WM2XXAUS Standard Mount** section, as appropriate.

WM2XXSI/WM2XXAUSI INTERACTIVE MOUNTS

Installing Mount Covers

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

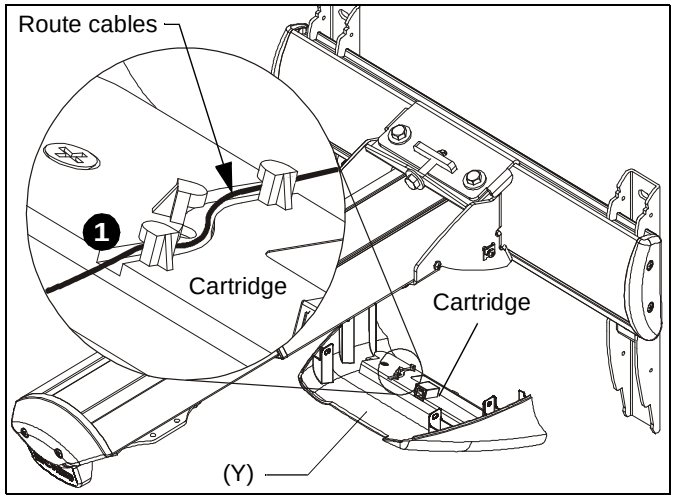


Figure 22

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)

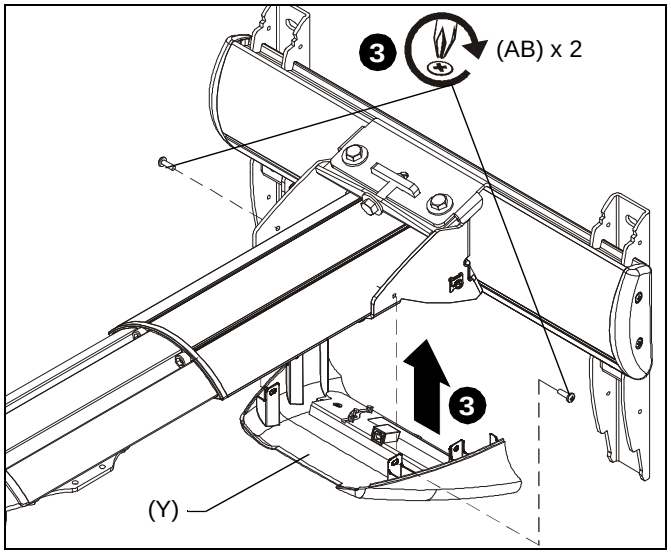


Figure 23

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.

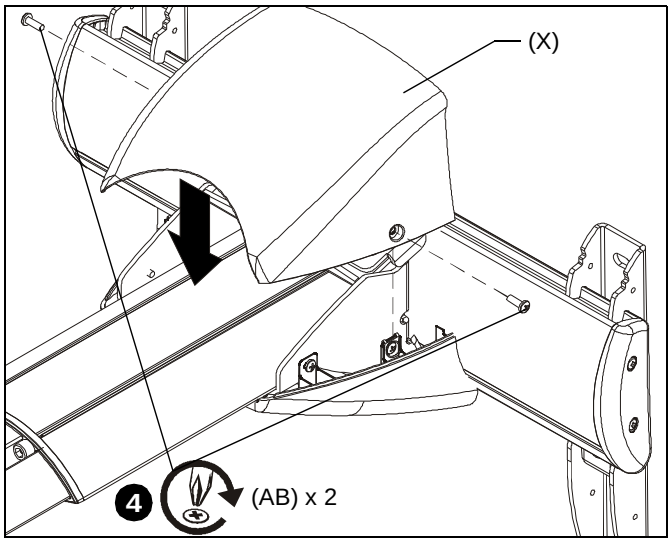


Figure 24

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)

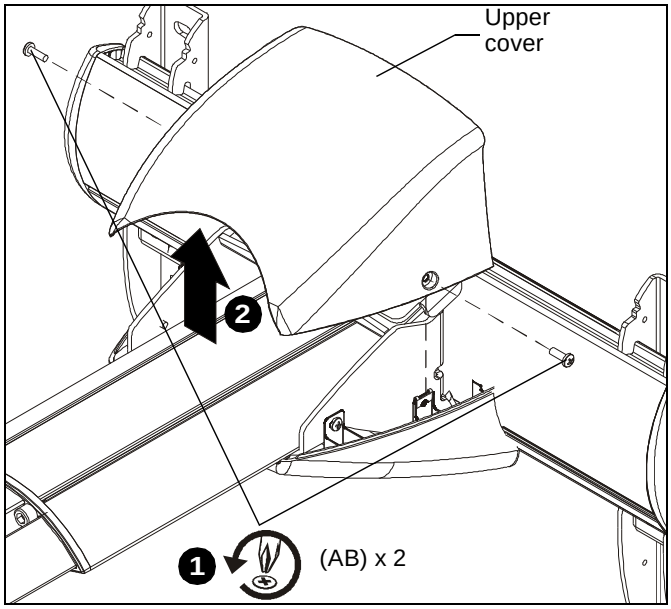


Figure 25

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

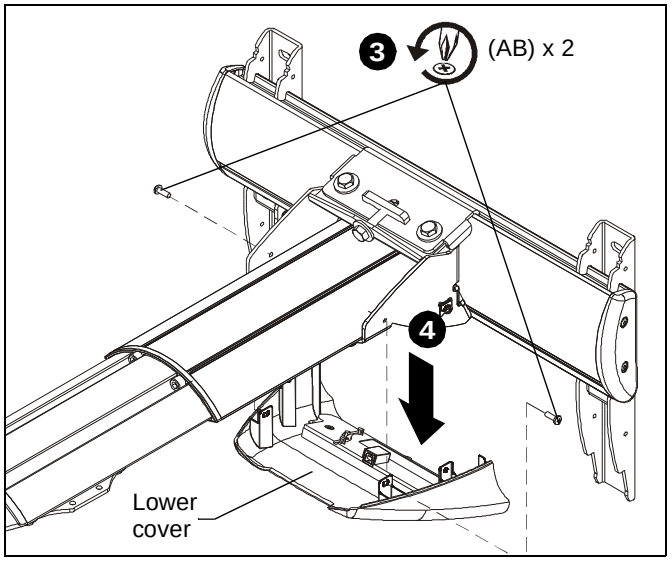


Figure 26

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)

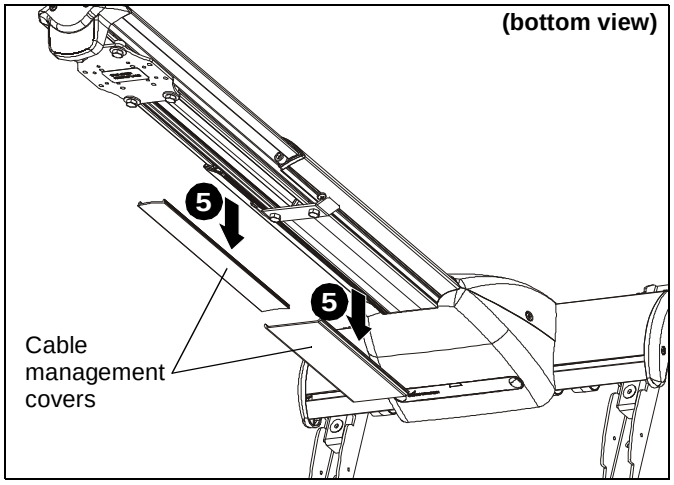


Figure 27

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)

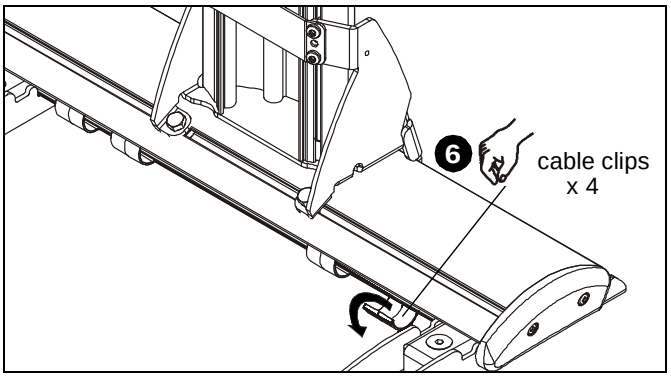


Figure 28

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

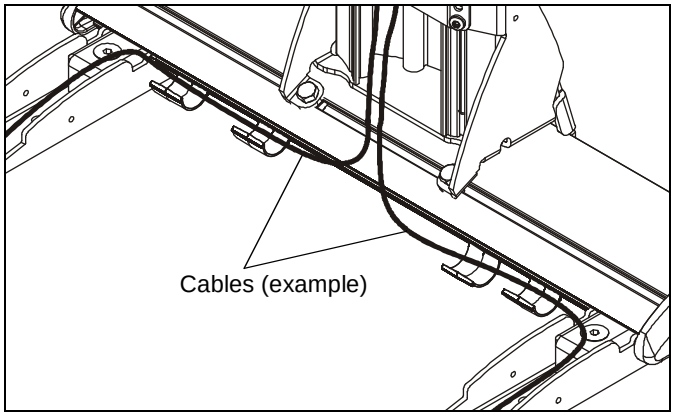


Figure 29

- **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**

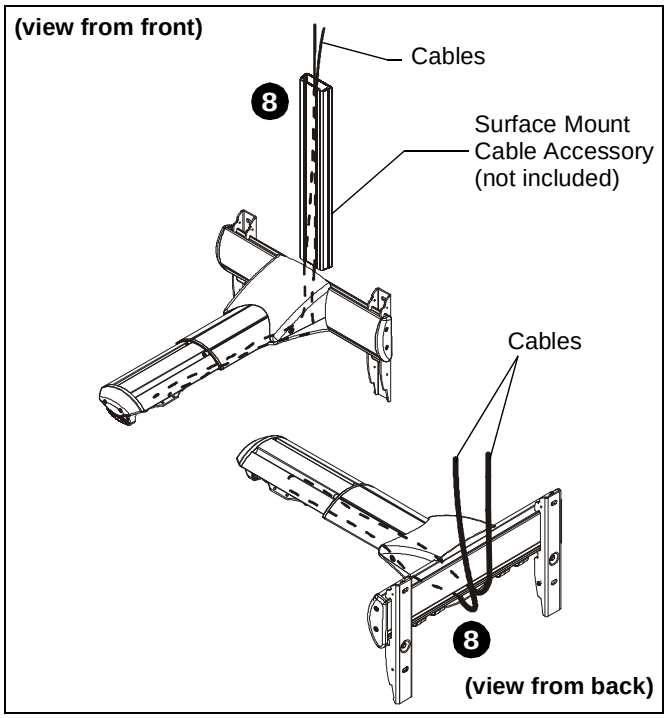


Figure 30

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

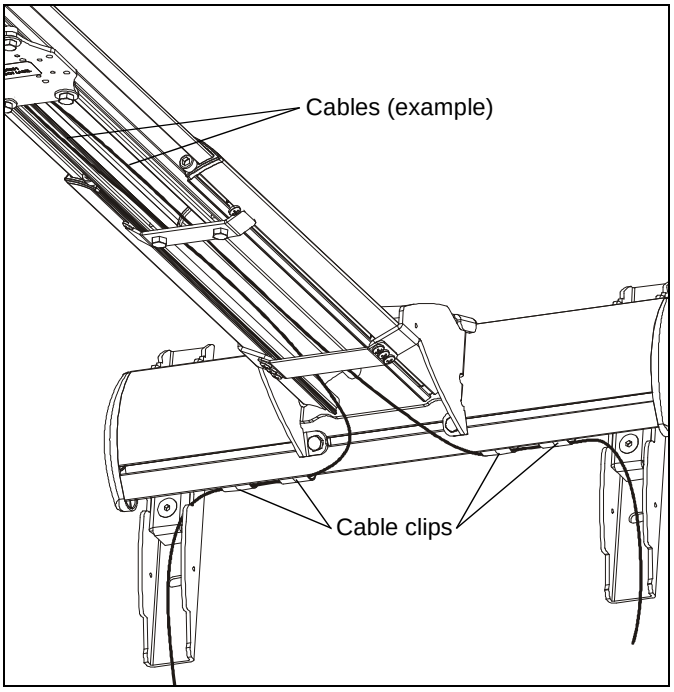


Figure 31

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)

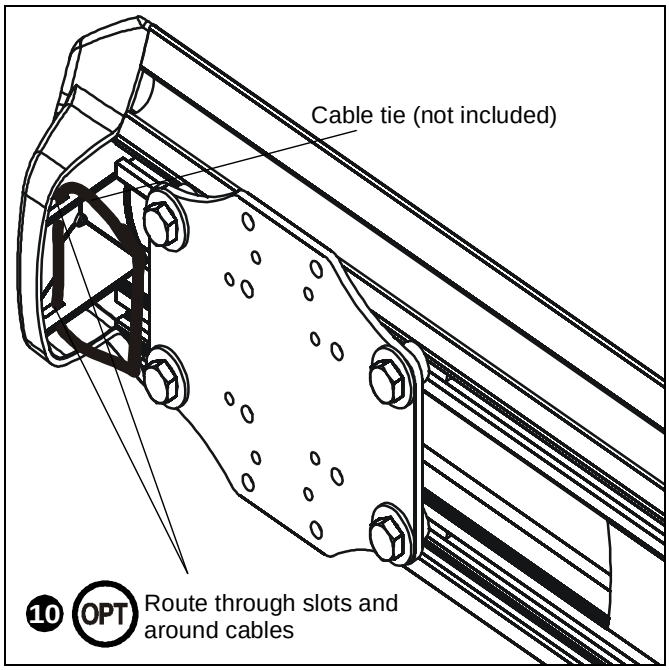


Figure 32

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)

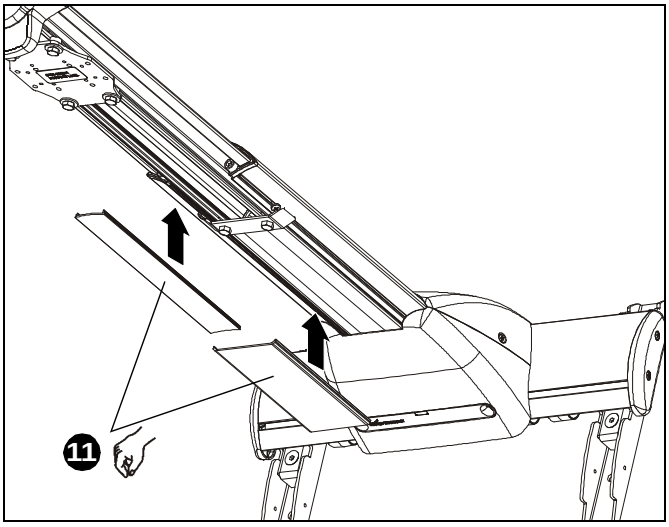


Figure 33

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)

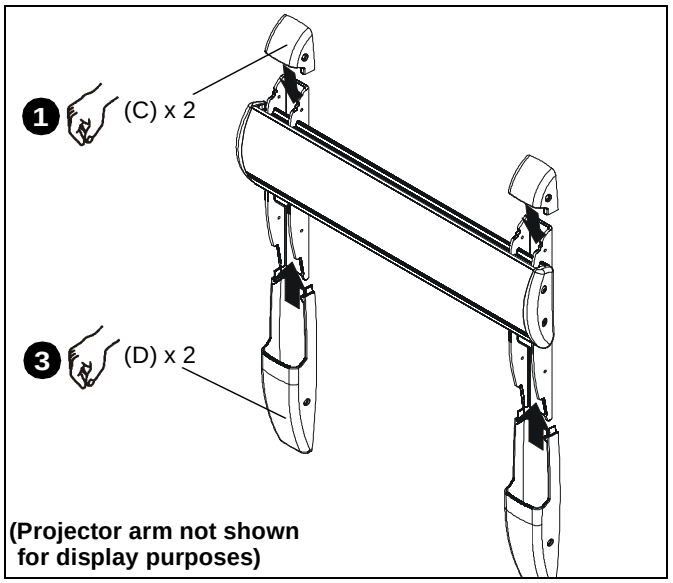


Figure 34

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)

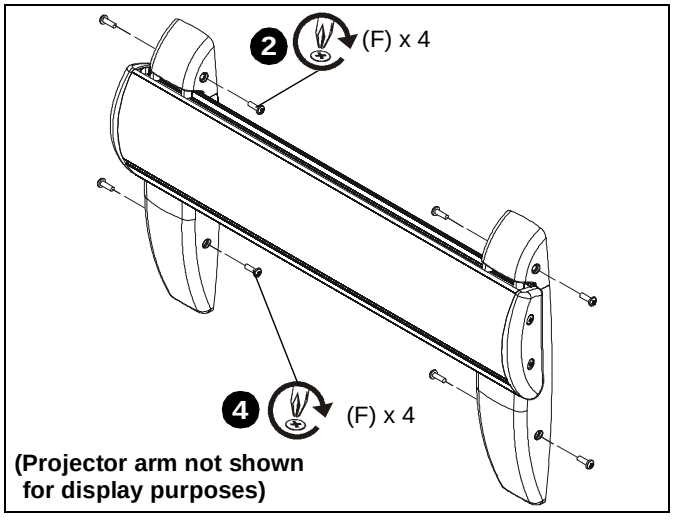


Figure 35

Adjustments

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 36)

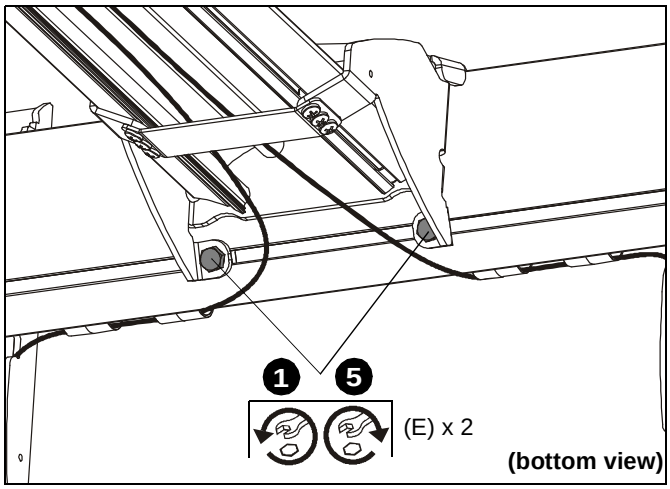


Figure 36

2. Loosen two bolts on either side of pitch adjustment screw. (See Figure 37)
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 37)
4. Tighten two bolts on either side of pitch adjustment screw. (See Figure 37)
5. Tighten two 1/4-20 x 5/8" screws (E) on underside of mounting bracket. (See Figure 36)

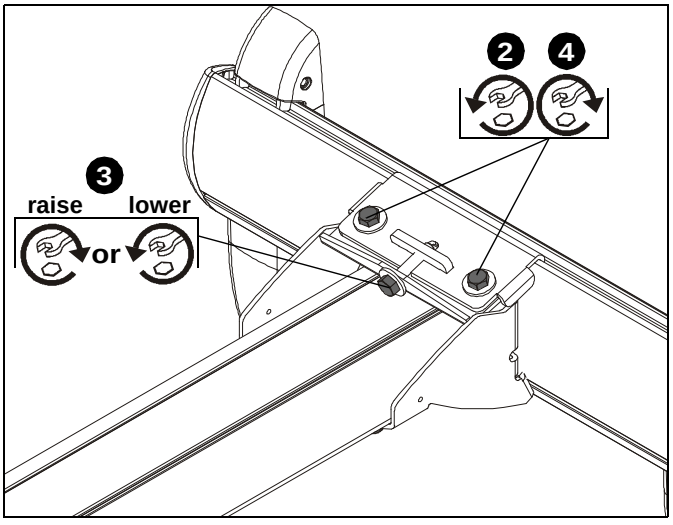


Figure 37

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 38)
2. Adjust mount to desired extension length. (See Figure 38)
3. Tighten two bolts holding stop bracket to secure mount in desired position. (See Figure 38)

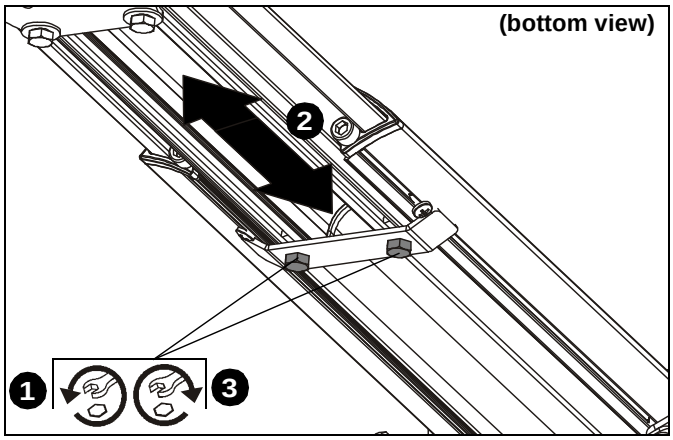


Figure 38

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 39)
2. Adjust projector arm laterally to desired position. (See Figure 39)
3. Tighten two 1/4-20 x 5/8" hex head cap screws (E) loosened in Step 1. (See Figure 39)

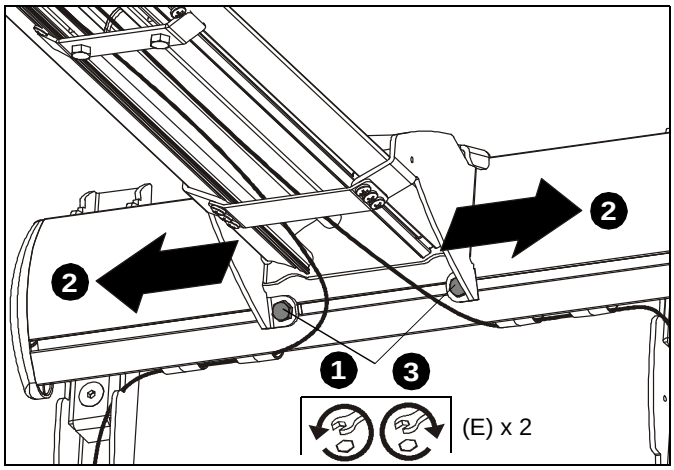


Figure 39

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 40)

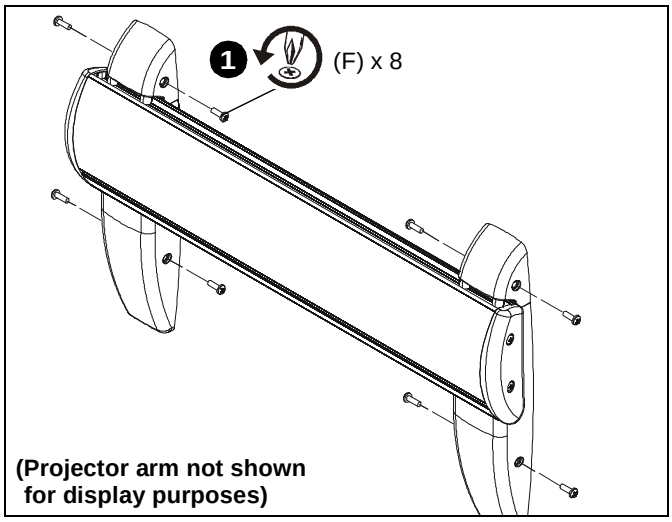


Figure 40

2. Install eight #8-32 x 1/2" button head security screws (V) into holes in wall bracket covers. (See Figure 41)

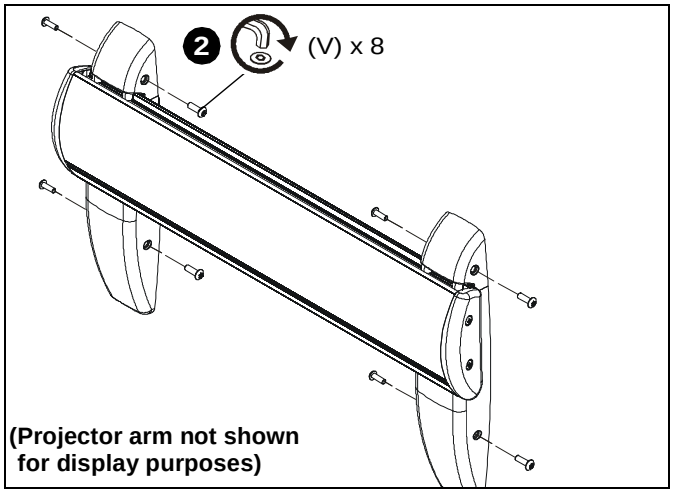


Figure 41

Mount Covers

1. Remove two 8-32 x 3/8" Phillips pan head screws (AB) from upper cover. (See Figure 42)
2. Raise and remove the upper cover from the mount. (See Figure 42)

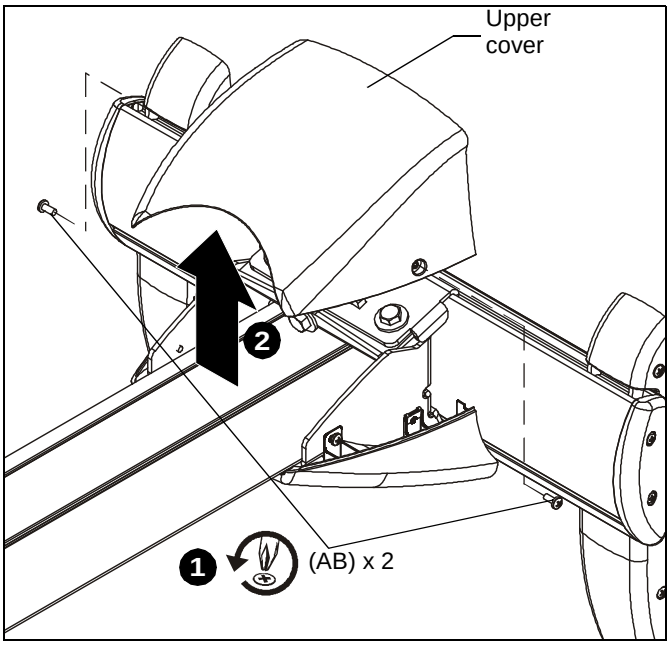


Figure 42

3. Remove two 8-32 x 3/8" Phillips pan head screws (AB) from lower cover. (See Figure 43)

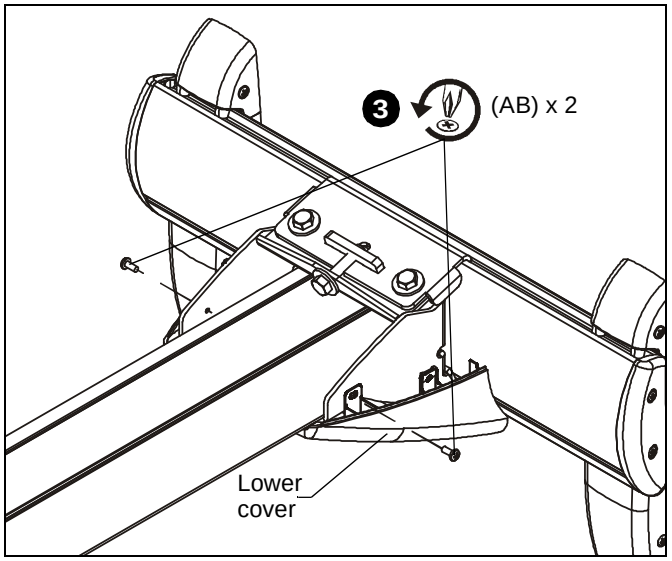


Figure 43

4. Install two 8-32 x 3/8" button head security screws (AA) into lower cover. (See Figure 44)

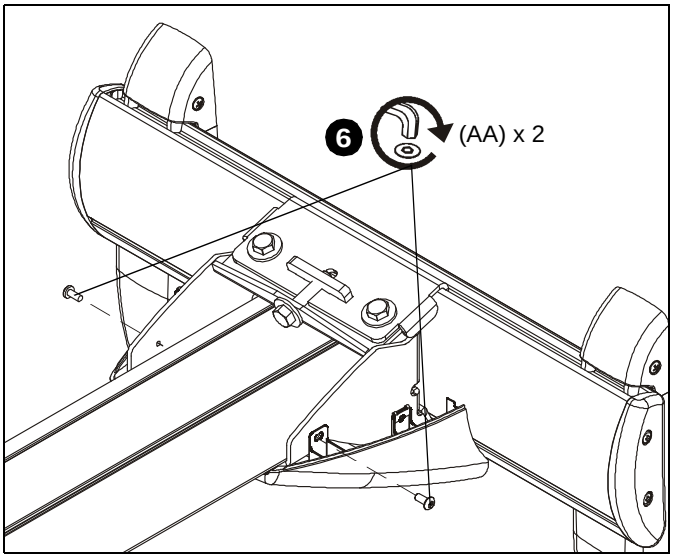


Figure 44

5. Replace upper cover and install two 8-32 x 3/8" button head security screws (AA) into upper cover. (See Figure 45)

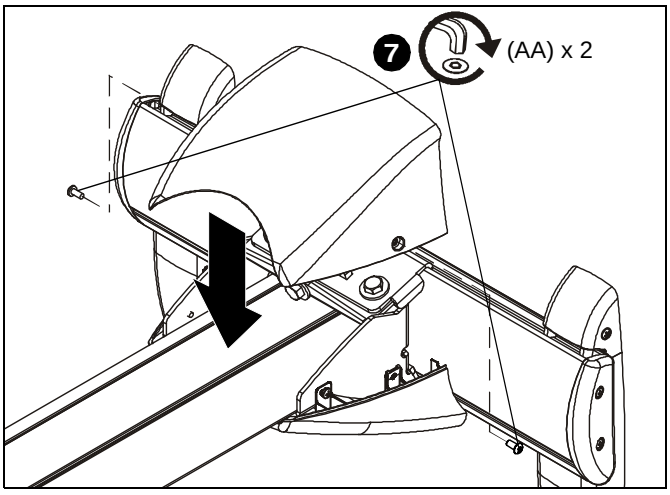


Figure 45

Stop Bracket

1. Remove two bolts holding stop bracket in place on underside of short throw projector mount. (See Figure 46)

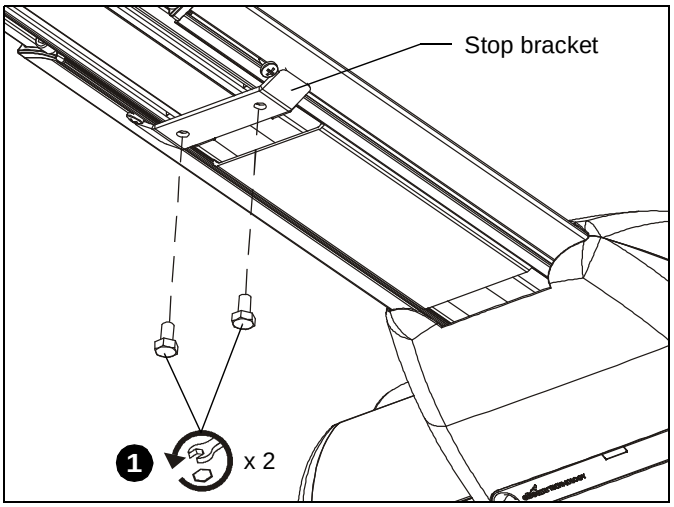


Figure 46

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 47)

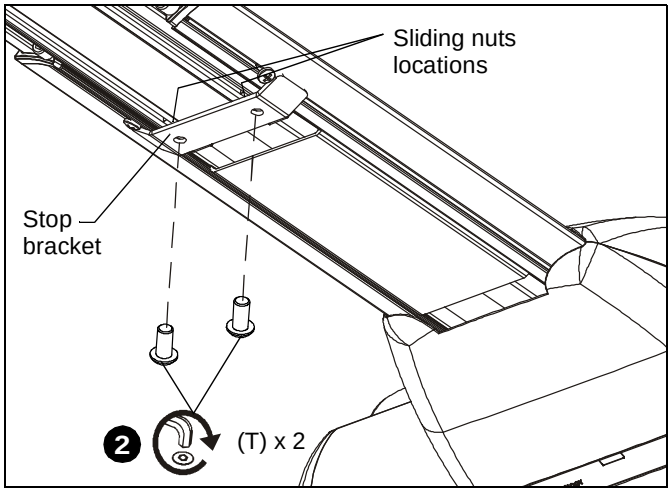


Figure 47

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 48)

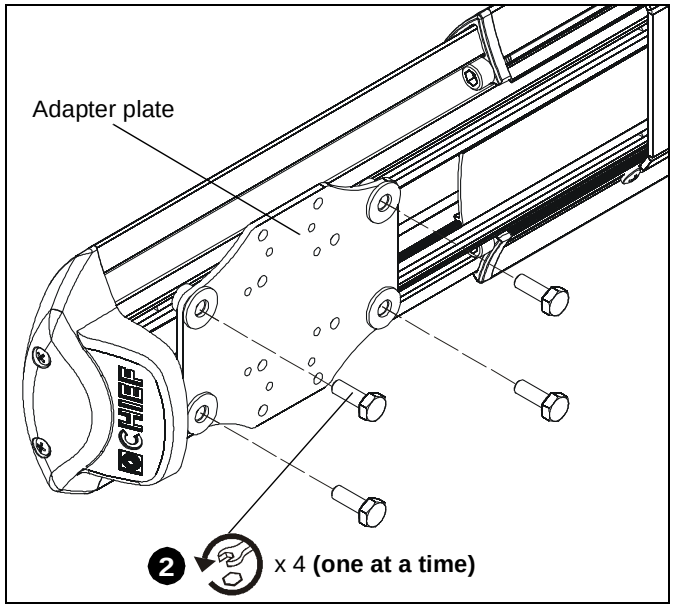


Figure 48

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 49)

4. Repeat Steps 2-3 for remaining three bolts **one bolt at a time**.

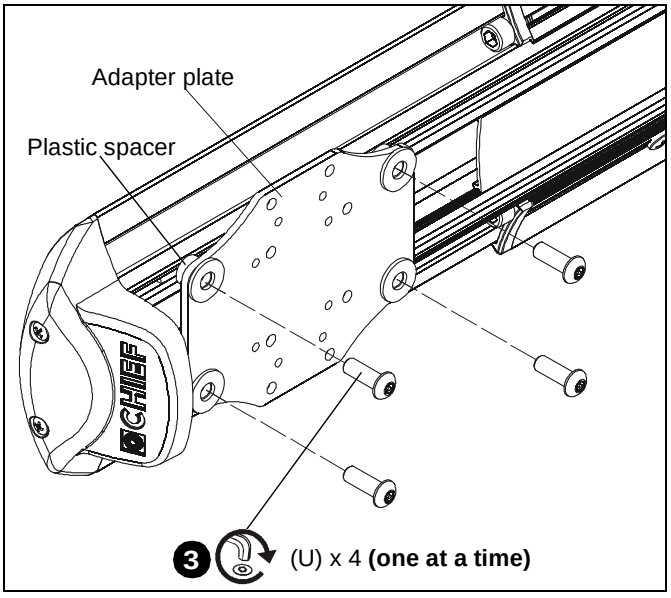


Figure 49

5. Reinstall projector according to interface instructions.

WM2XXS/WM2XXAUS STANDARD MOUNT

Installing Mount Covers

1. Raise the lower cover (AK) to wall mount and hold in place. (See Figure 50)

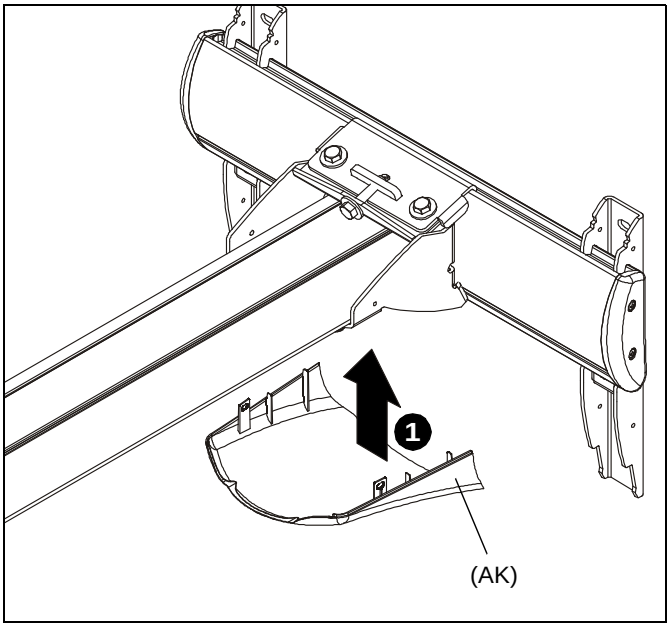


Figure 50

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 51)

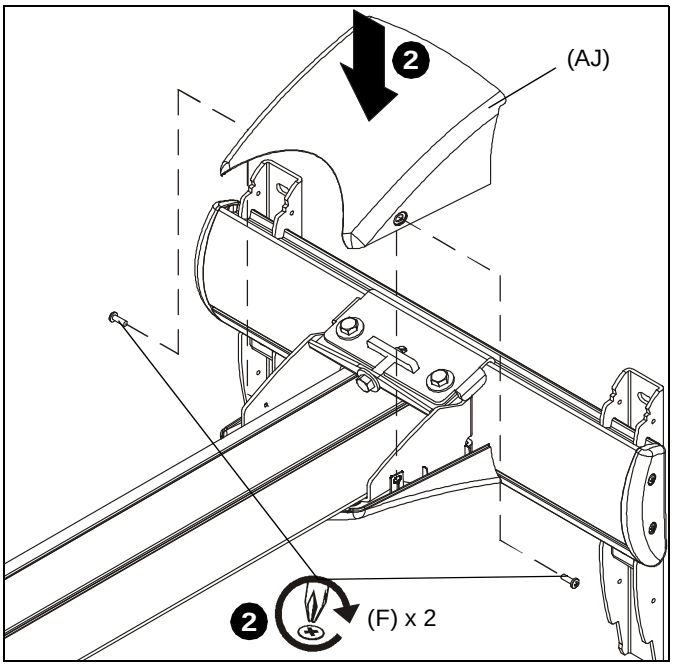


Figure 51

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 (F) from upper cover. (See Figure 52)
2. Raise upper cover away from the mount. (See Figure 52)

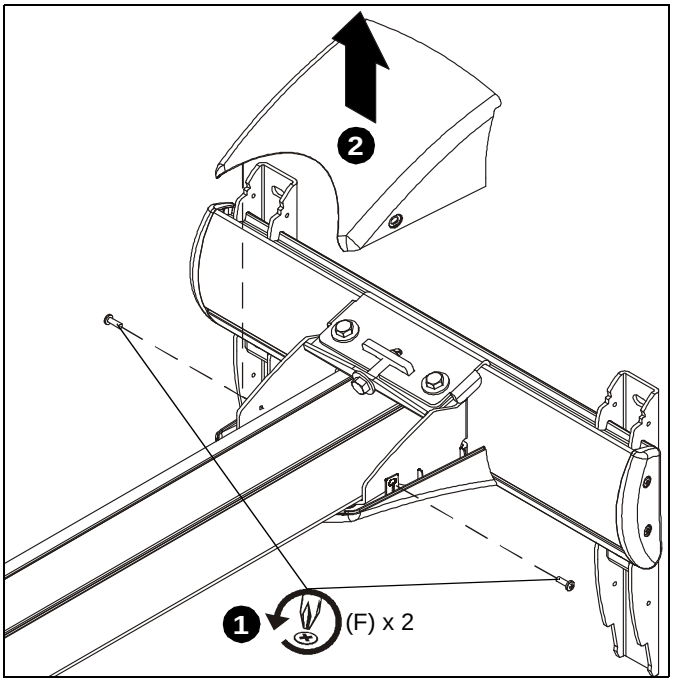


Figure 52

3. Remove lower cover from mount. (See Figure 53)

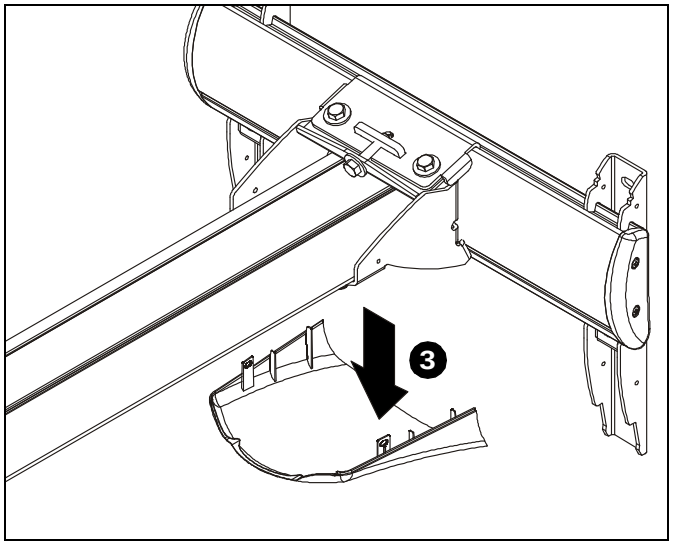


Figure 53

4. Remove cable management covers (if necessary) from short throw projector arm. (See Figure 54)

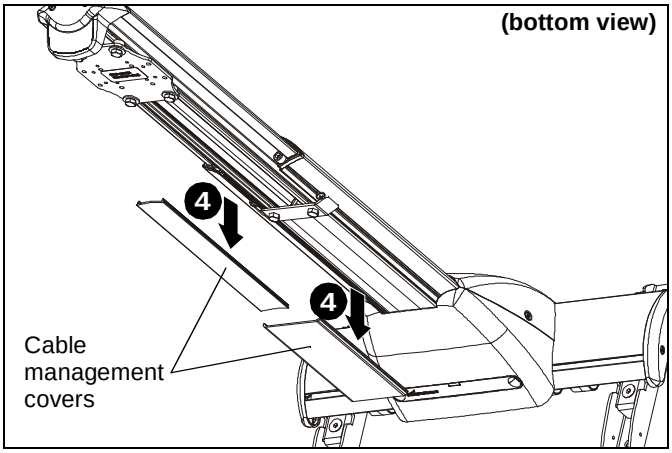


Figure 54

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 55)

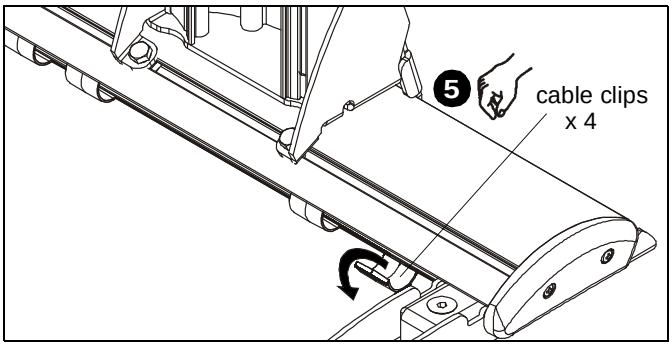


Figure 55

6. Thread cable up wall bracket channel and into opened cable clips. (See Figure 56) **Proceed to Step 8**

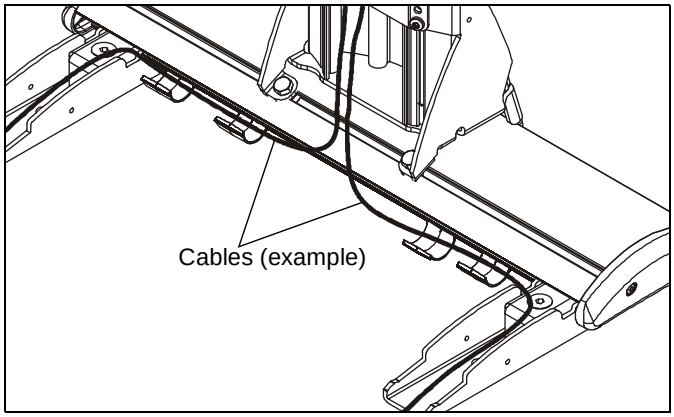


Figure 56

- **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 57) **Proceed to Step 8**

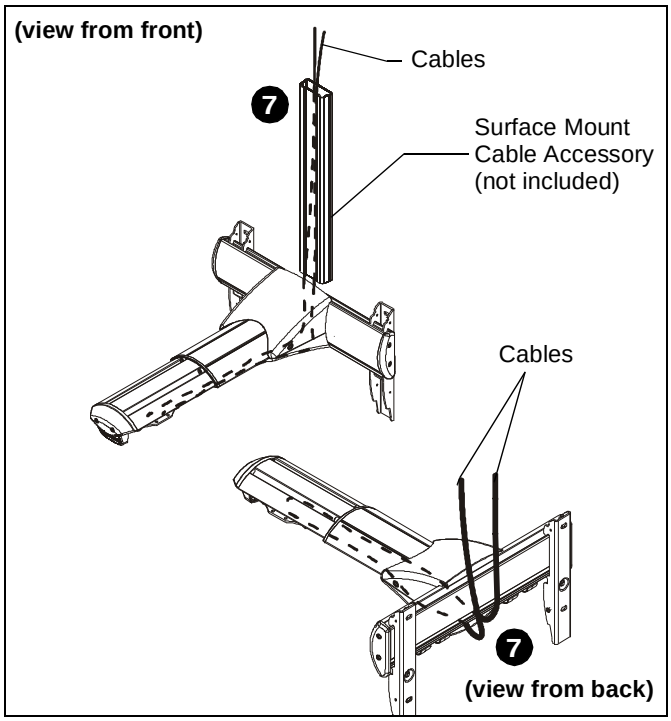


Figure 57

8. Route cables through cover mount, projector arm tunnel and into projector. (See Figure 58)

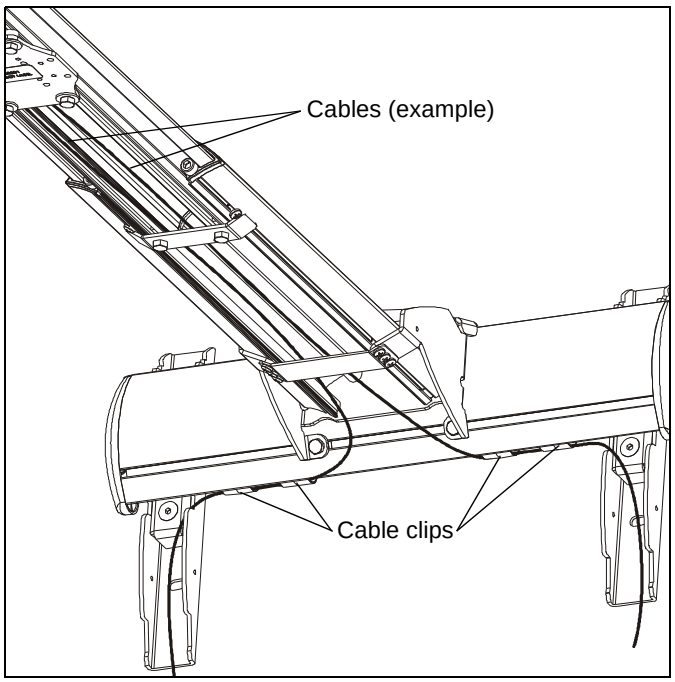


Figure 58

9. **(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 59)

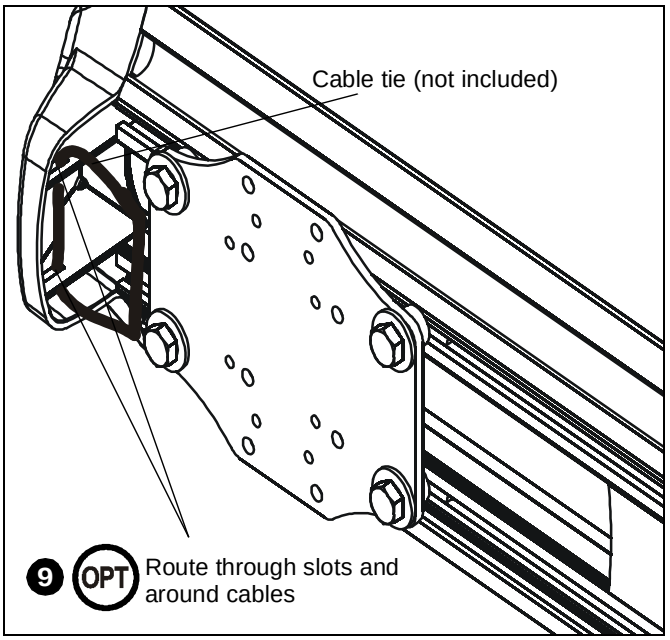


Figure 59

10. 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 60)

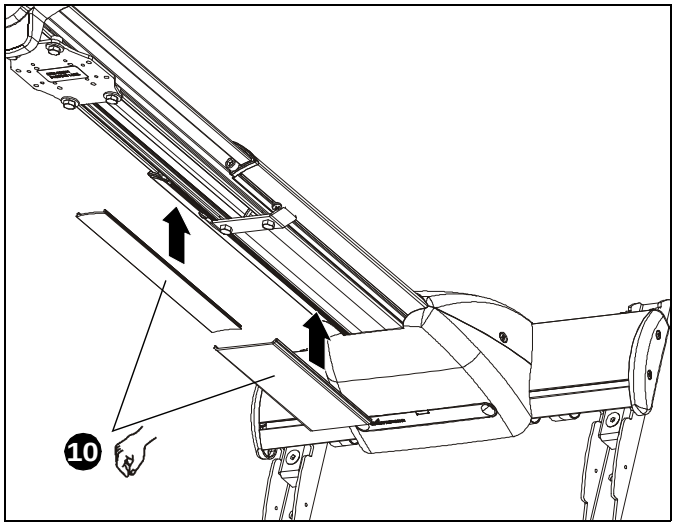


Figure 60

11. 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 61)

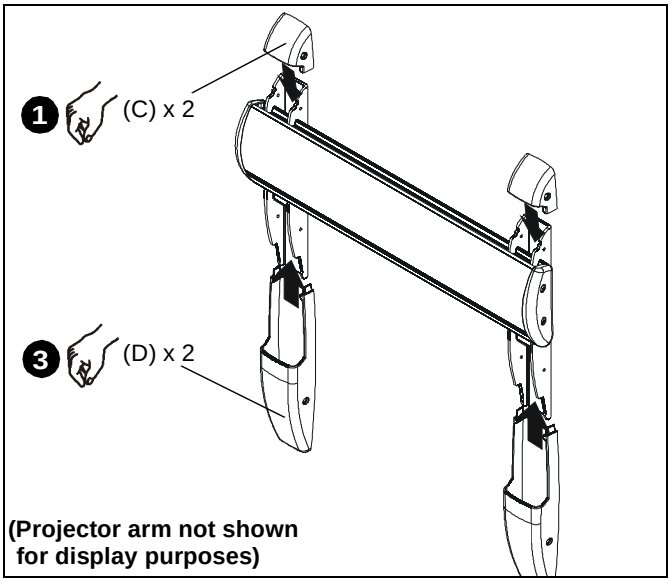


Figure 61

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 62)
3. Place wall bracket bottom caps (D) over bottom of each wall bracket arm. (See Figure 61)
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 62)

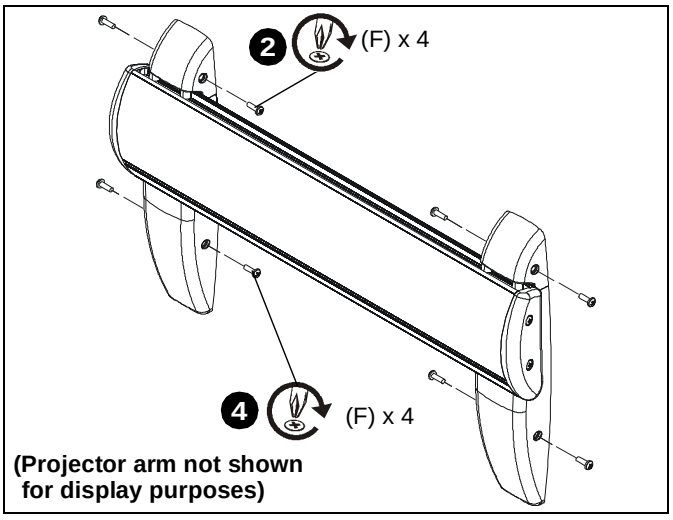


Figure 62

Adjustments

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 63)

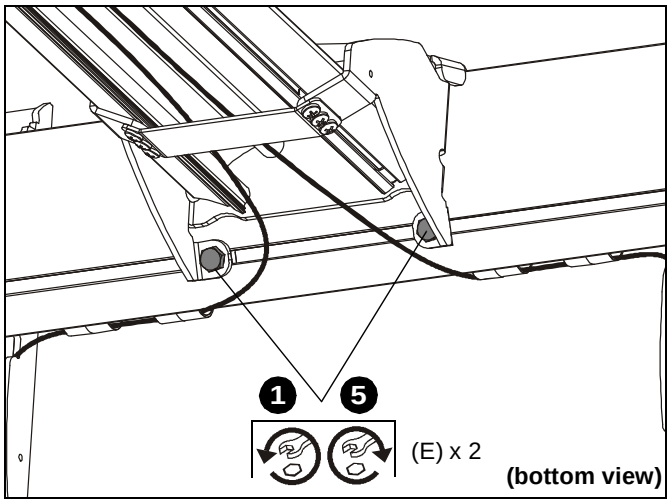


Figure 63

2. Loosen two bolts on either side of pitch adjustment screw. (See Figure 64)
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 64)
4. Tighten two bolts on either side of pitch adjustment screw. (See Figure 64)
5. Tighten two 1/4-20 x 5/8" screws (E) on underside of mounting bracket. (See Figure 63)

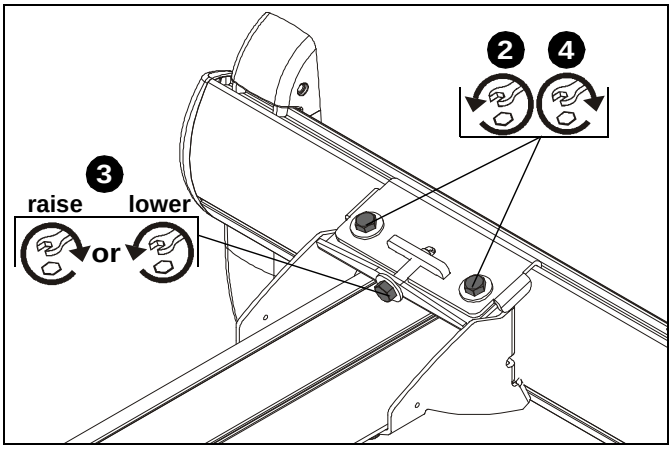


Figure 64

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 65)
2. Adjust mount to desired extension length. (See Figure 65)
3. Tighten two bolts holding stop bracket to secure mount in desired position. (See Figure 65)

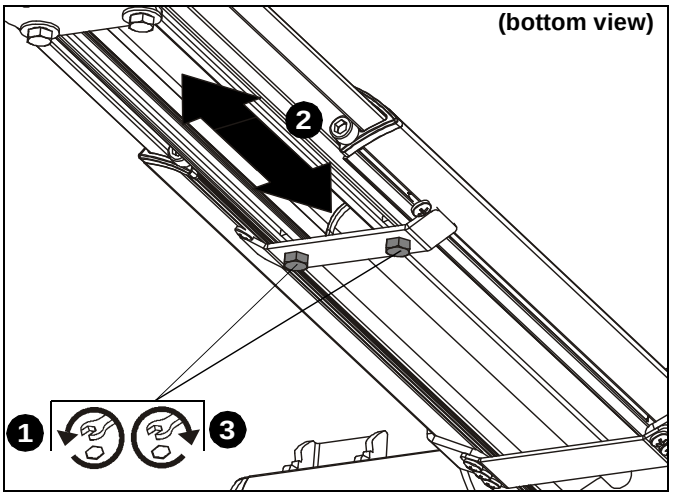


Figure 65

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 66)
2. Adjust projector arm laterally to desired position. (See Figure 66)
3. Tighten two 1/4-20 x 5/8" hex head cap screws (E) loosened in Step 1. (See Figure 66)

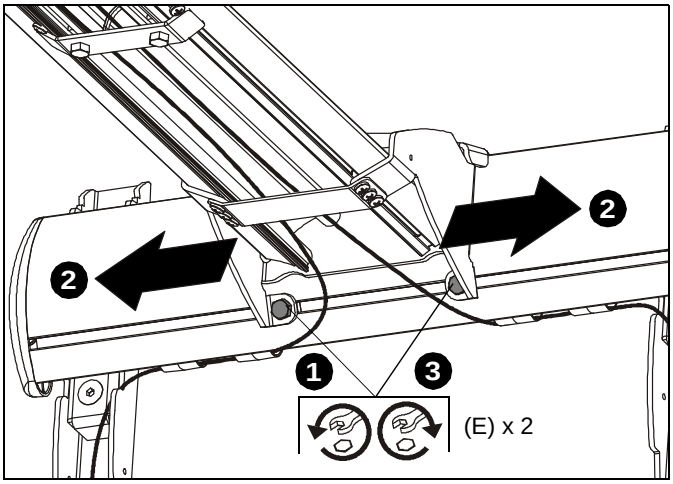


Figure 66

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 67)

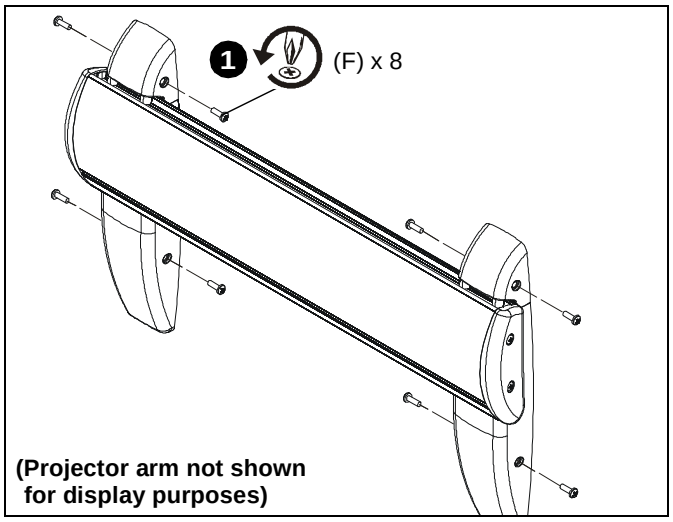


Figure 67

2. Install eight #8-32 x 1/2" button head security screws (V) into holes in wall bracket covers. (See Figure 68)

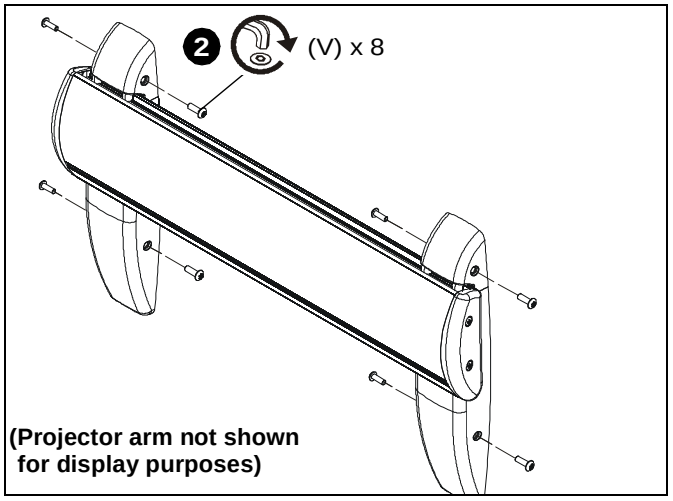


Figure 68

Mount Covers

1. Remove two #8-32 x 1/2" Phillips pan machine screws (F) holding mount covers on projector arm. (See Figure 69)
2. Install two #8-32 x 1/2" button head security screws (V) into holes on mount cover. (See Figure 69)

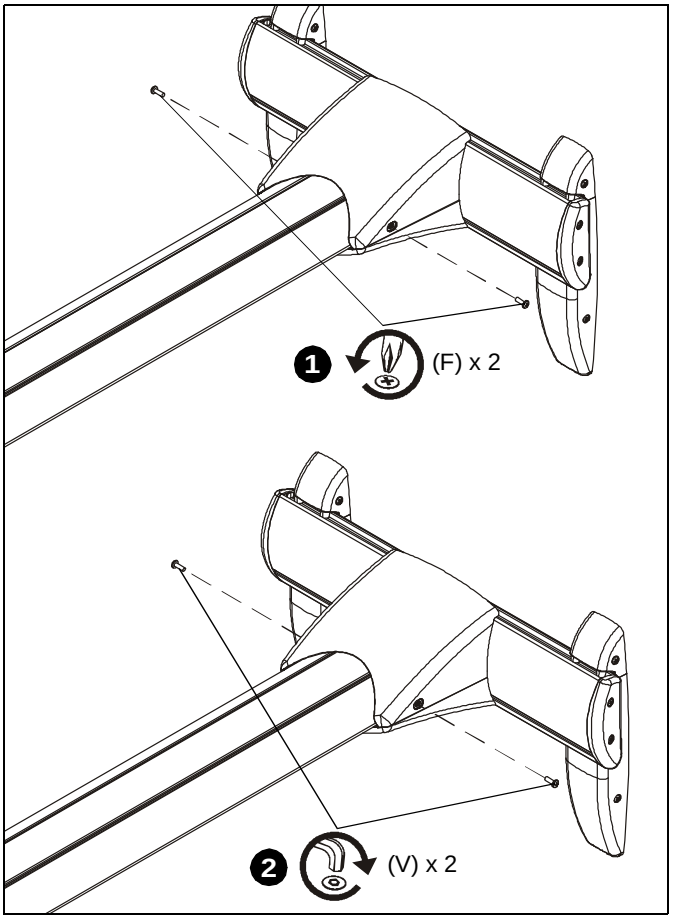


Figure 69

Stop Bracket

1. Remove two bolts holding stop bracket in place on underside of short throw projector mount. (See Figure 70)

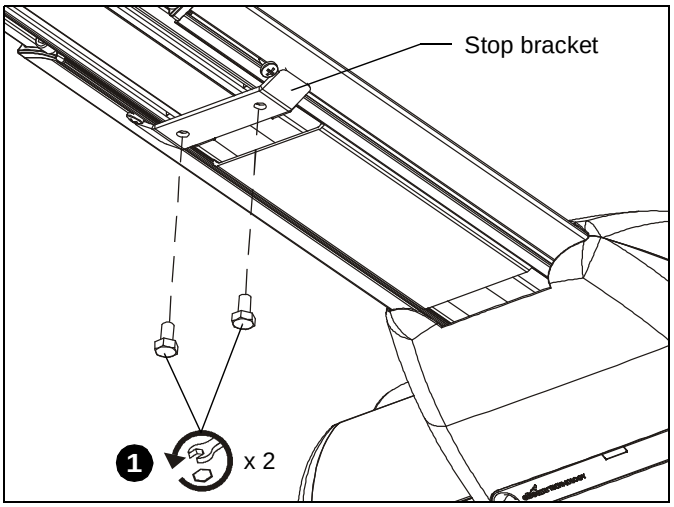


Figure 70

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 71)

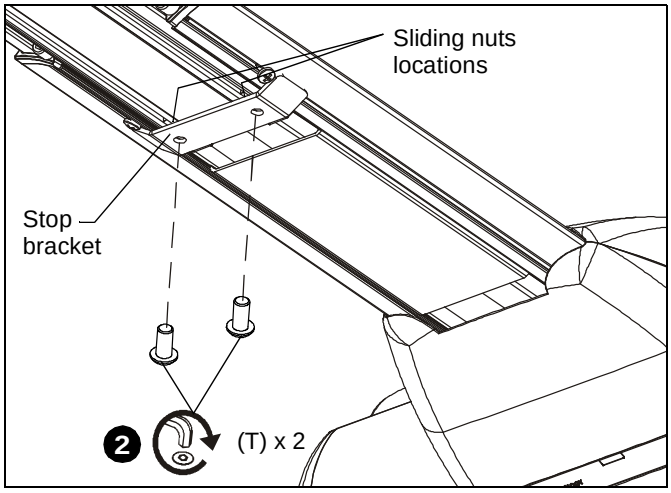


Figure 71

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 72)

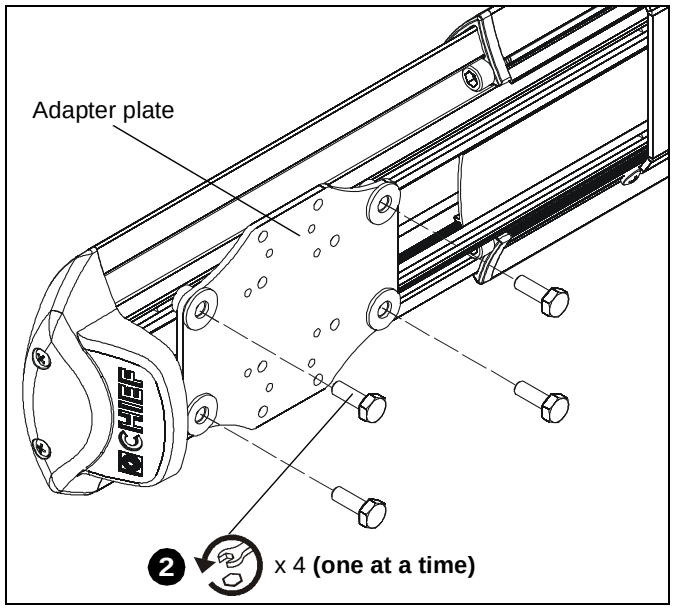


Figure 72

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 73)

4. Repeat Steps 2-3 for remaining three bolts **one bolt at a time**.

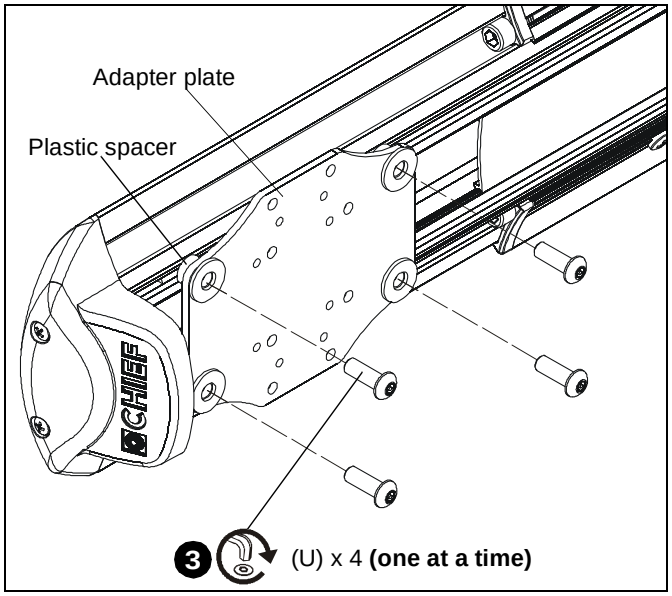


Figure 73

5. Reinstall projector according to interface instructions.

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