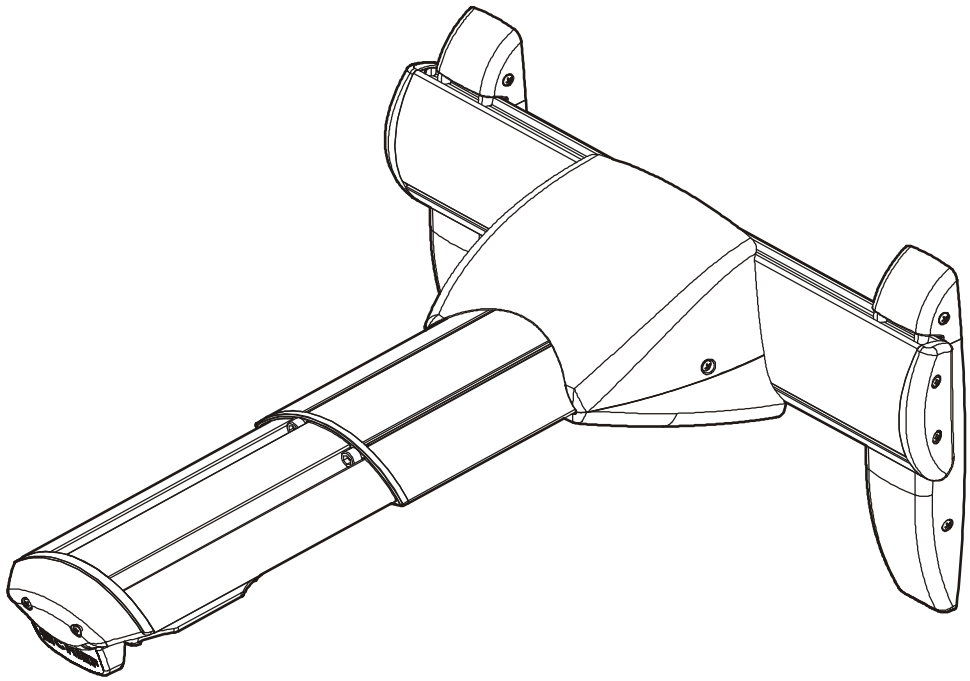
INSTALLATION INSTRUCTIONS



Dual Stud Wall Mount Accessory

CHIEF®
Our Mounts. **Your Vision.**

WMA2S

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.

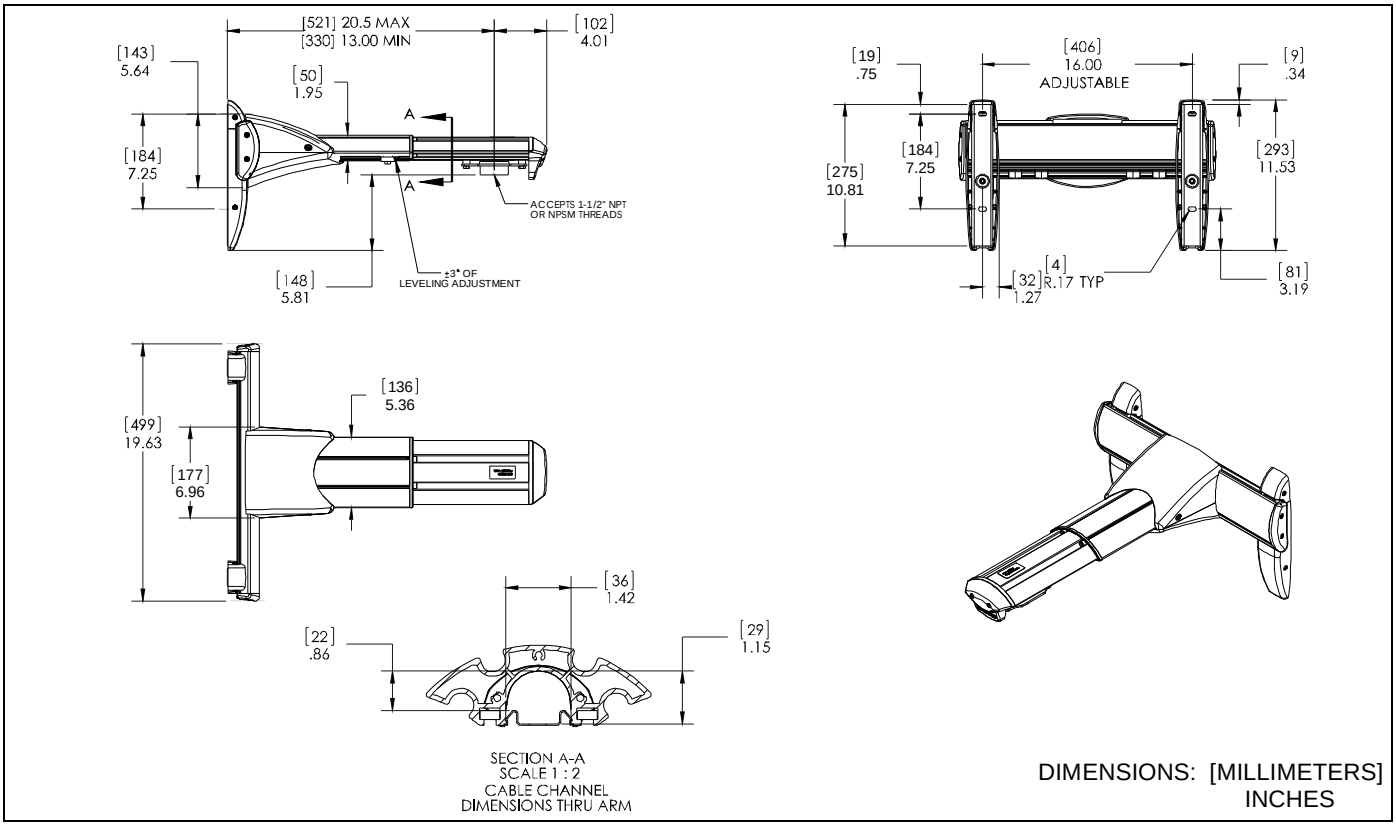
WARNING: Failure to read, thoroughly understand, and follow all instructions can result in serious personal injury, damage to equipment, or voiding of factory warranty! It is the installer's responsibility to make sure all components are properly assembled and installed using the instructions provided.

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

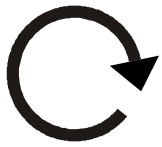
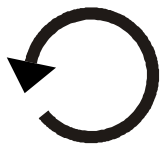
WARNING: Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the combined weight of all components attached to the projector wall mount accessory up to (and including) the attached component(s) does not exceed:

- Installed in steel stud: 75 lbs (34.0 kg)
- Installed in 2" x 4" wood stud: 150 lbs (68.0 kg)
- Installed in concrete/concrete block (with NO drywall attached to wall): 150 lbs (68.0 kg)

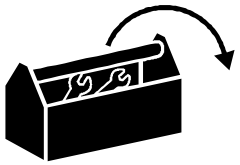
DIMENSIONS

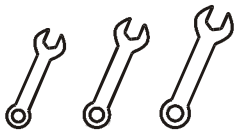


LEGEND

	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 Kruiskopschroevendraaier 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 Veiligheidssleutel Clé de sécurité

TOOLS REQUIRED FOR INSTALLATION

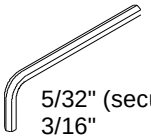




1/2" (12.7mm)

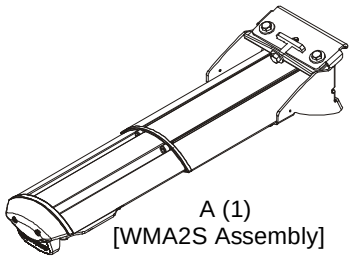
#2

1/2" (12.7mm) steel stud
3/8" (10mm) concrete and concrete block
7/32" (5.6mm) wood 2" x 4" stud

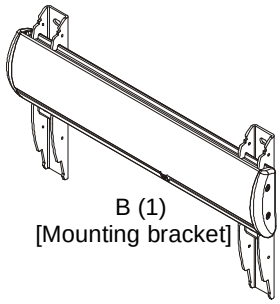


5/32" (security)
3/16"
(included)

PARTS



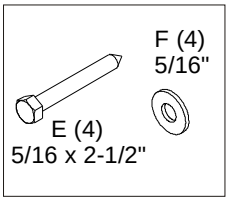
A (1)
[WMA2S Assembly]



B (1)
[Mounting bracket]

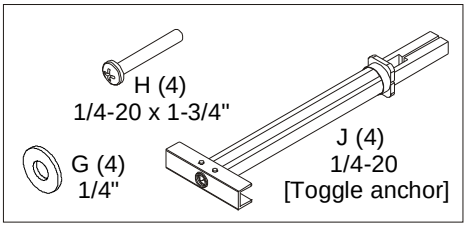
C (2)
[Mount cap top]

D (2)
[Mount cap bottom]



F (4)
5/16"

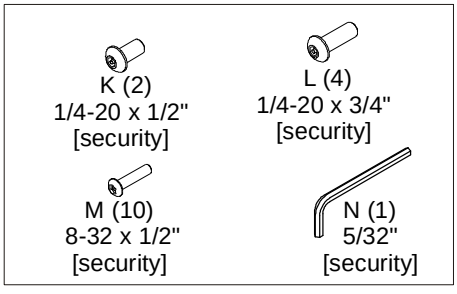
E (4)
5/16 x 2-1/2"



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

G (4)
1/4"

J (4)
1/4-20
[Toggle anchor]

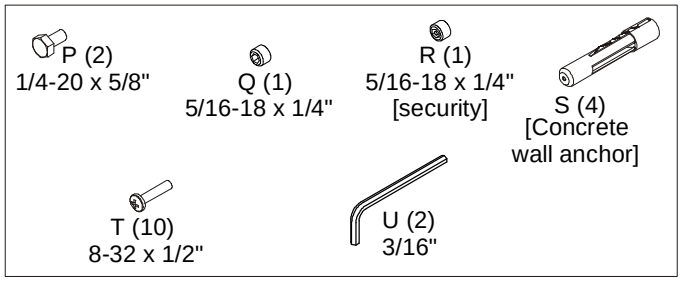


K (2)
1/4-20 x 1/2"
[security]

L (4)
1/4-20 x 3/4"
[security]

M (10)
8-32 x 1/2"
[security]

N (1)
5/32"
[security]



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

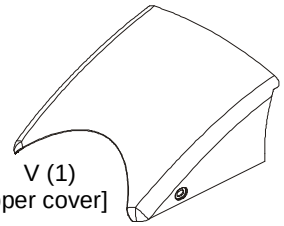
Q (1)
5/16-18 x 1/4"

R (1)
5/16-18 x 1/4"
[security]

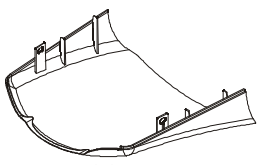
S (4)
[Concrete
wall anchor]

T (10)
8-32 x 1/2"

U (2)
3/16"



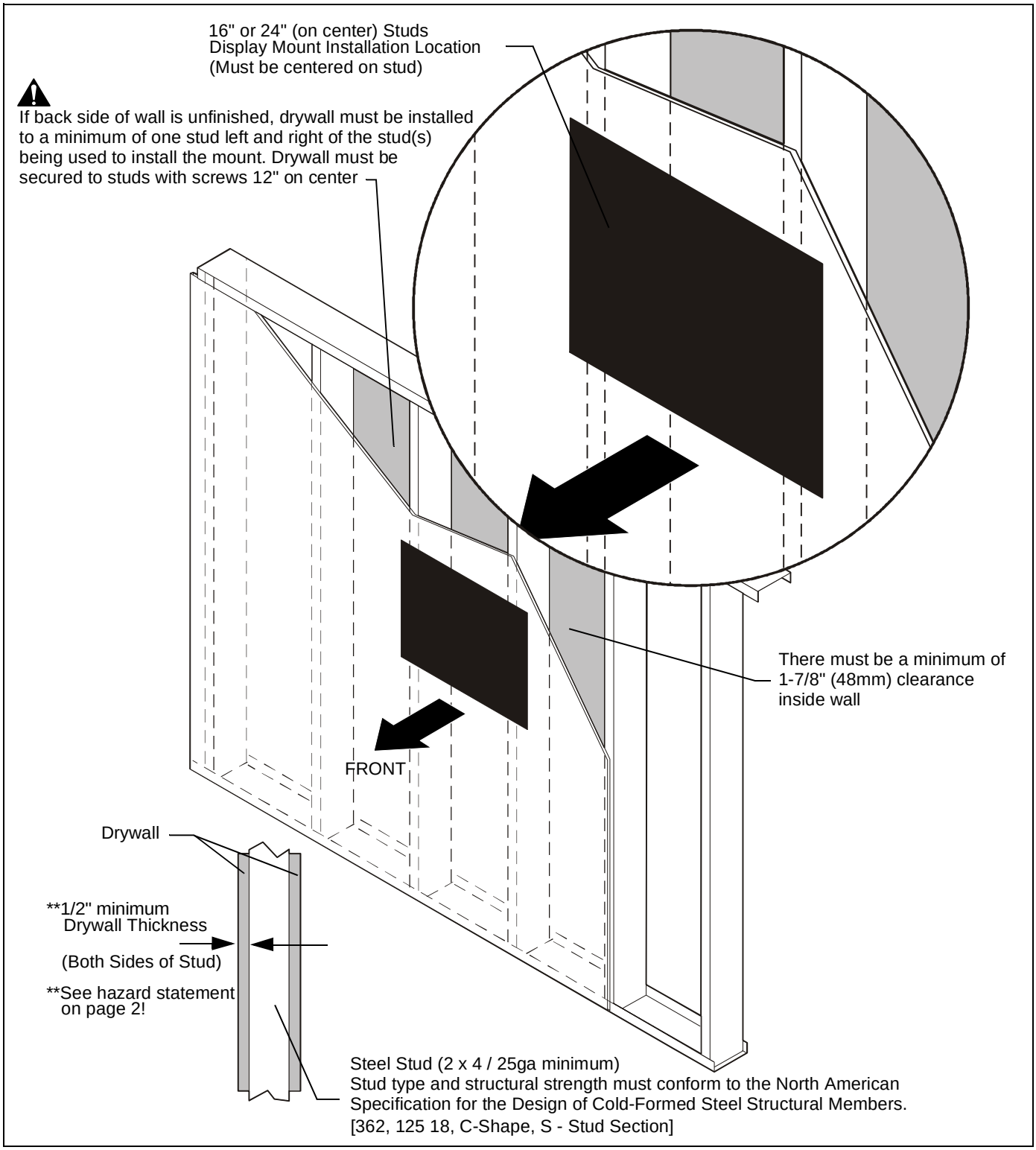
V (1)
[Upper cover]



W (1)
[Lower cover]

Site Requirements

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.



ASSEMBLY AND INSTALLATION

The WMA2S dual stud wall mount accessory can be mounted to concrete, concrete block, 2" x 4" wood studs (16" on center) or steel studs. It can be mounted to studs up to 16" apart.

Installing Mounting Bracket

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.

Concrete or Concrete Block

IMPORTANT ! : If installing to a concrete or concrete block wall, drywall may NOT be attached to the wall.

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

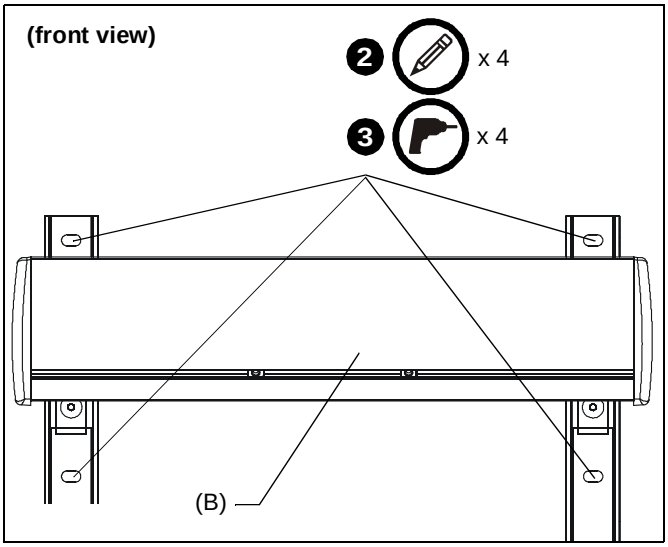


Figure 1

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

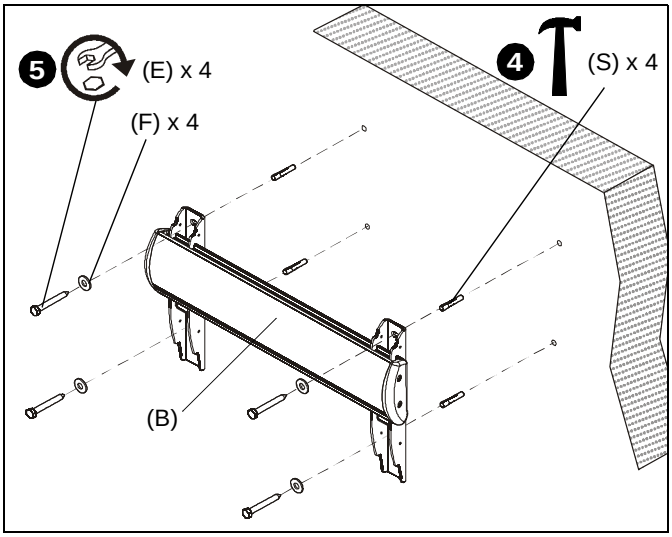


Figure 2

Wood Studs

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

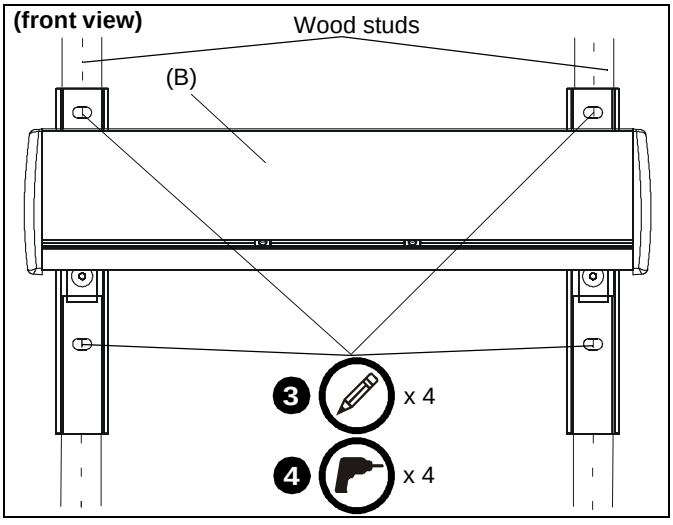


Figure 3

5. Install four 5/16 x 2-1/2" hex head lag screws (E) through four 5/16" washers (F), holes of mounting bracket and into drilled holes. (See Figure 4)

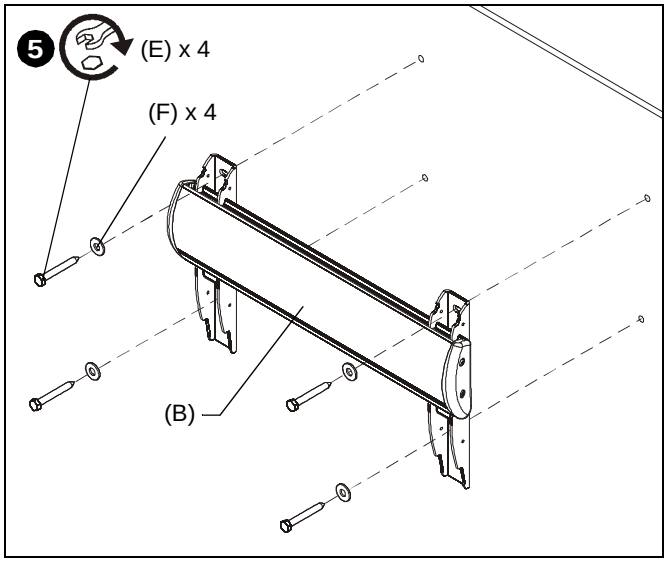


Figure 4

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, mounting brackets will have to be adjusted. See **Bracket Width Adjustment** section for details.
2. Line up four holes on mounting bracket with center of studs at desired mounting location. (See Figure 5)
3. Using mounting bracket as a template, mark four holes at the inner four holes in bracket. (See Figure 5)
4. Drill four 1/2" holes at marked locations in wall. (See Figure 5)

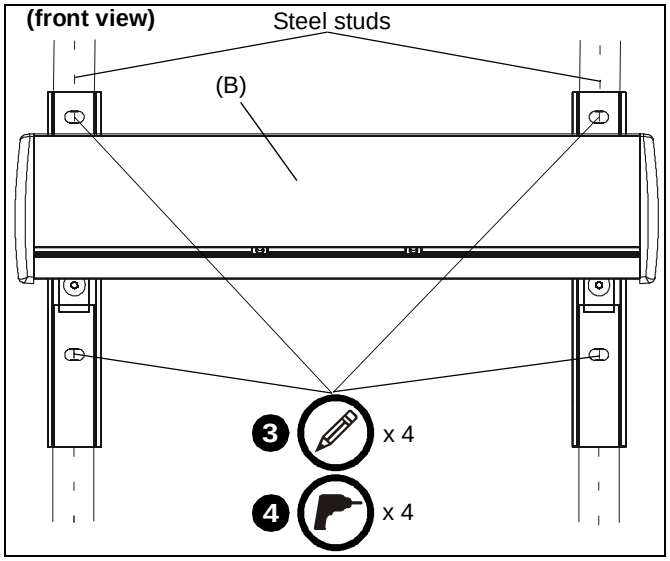


Figure 5

5. Hold metal channel on anchor (J) flat alongside plastic straps and slide channel through hole. (See Figure 6)

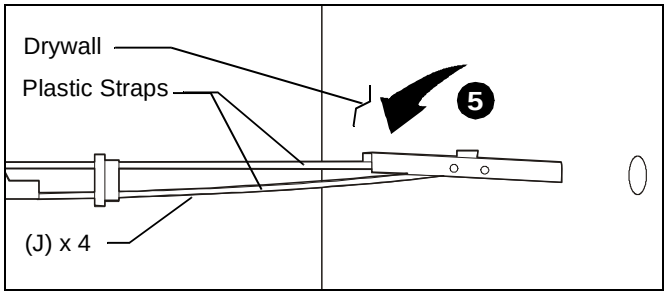


Figure 6

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

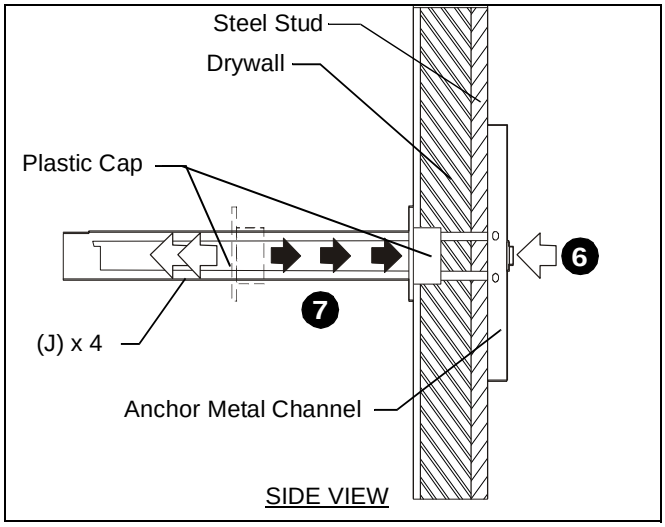


Figure 7

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 8)
9. Repeat Steps 7 through 9 for each mounting hole.

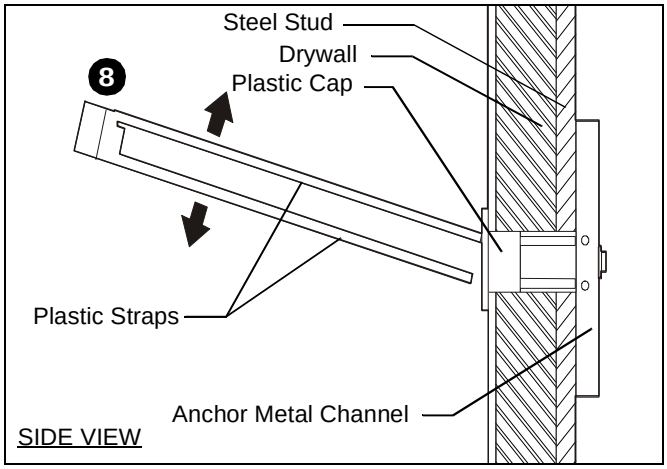


Figure 8

10. Place wall bracket over anchors and align mounting holes in mounting bracket with holes in anchors. (See Figure 9)
11. Insert 1/4-20 x 1-3/4" Phillips pan head screws (H) through 1/4" washer (G), corresponding mounting hole on mounting bracket (B) and into anchor (J) and tighten until flush against mount. DO NOT overtighten! (See Figure 9)
12. Repeat steps 11 through 12 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!

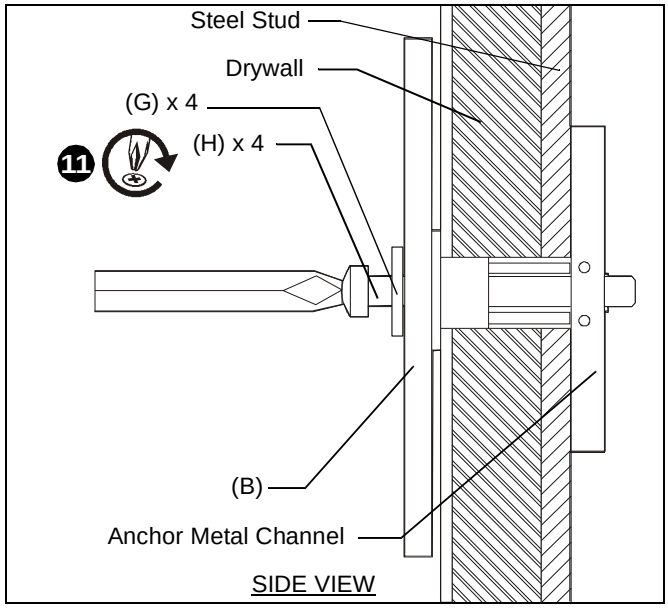


Figure 9

Installation to Mounting Bracket

1. Lift WMA2S assembly (A) up to mounting bracket (B) and hook top plate onto cross bracket on mounting bracket. (See Figure 10)

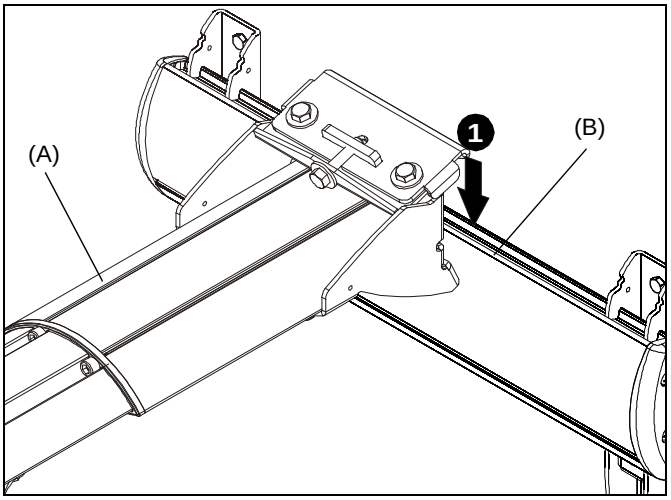


Figure 10

2. Slide lower plate onto cross bracket on mounting bracket. (See Figure 11)

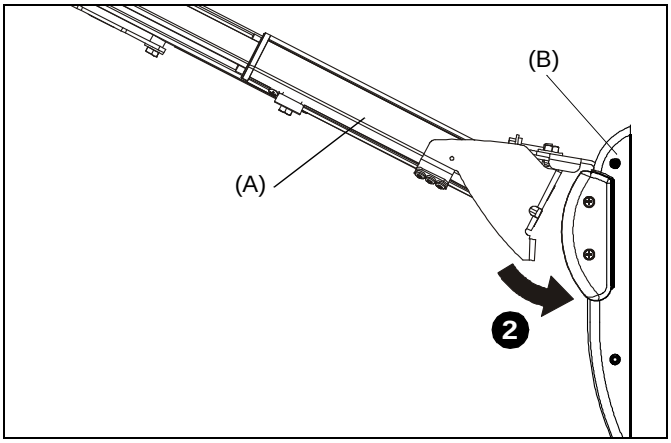


Figure 11

3. Install two 1/4-20 x 5/8" hex head bolts (P) through holes on WMA2S arm (A) and into sliding nuts on mounting bracket (B). DO NOT TIGHTEN SCREWS AT THIS POINT! (See Figure 12)

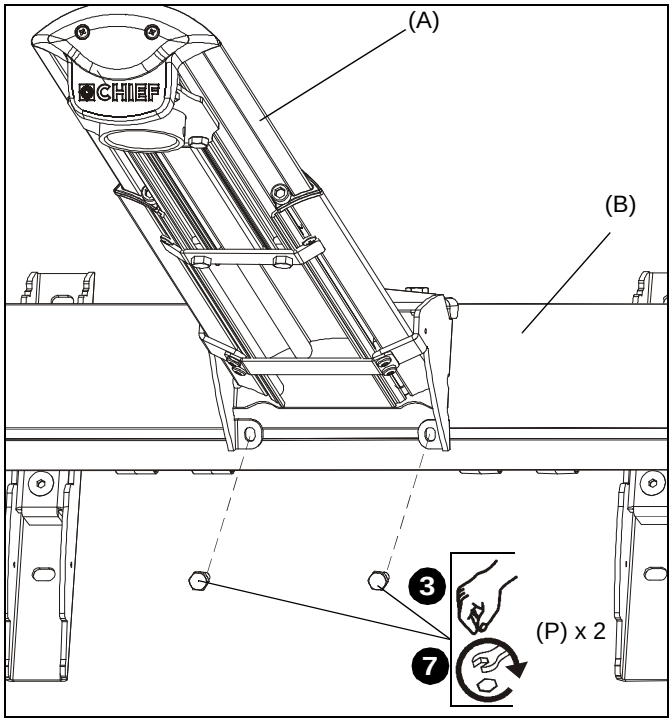


Figure 12

4. Loosen two bolts on either side of pitch adjustment screw. (See Figure 13)
5. Adjust pitch adjustment screw until mount is at desired pitch level.
   - Turn **clockwise** to raise mounting level.
   - Turn **counterclockwise** to lower mounting level. (See Figure 13)
6. Tighten two bolts on either side of pitch adjustment screw. (See Figure 13)

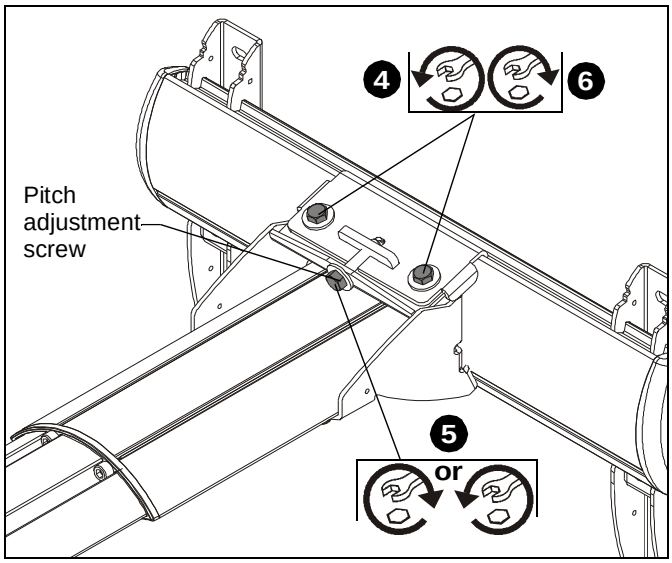


Figure 13

7. Tighten two bolts installed in Step 3. (See Figure 12)

Installing Mount Covers

1. Raise the lower cover (W) to wall mount and hold in place. (See Figure 14)

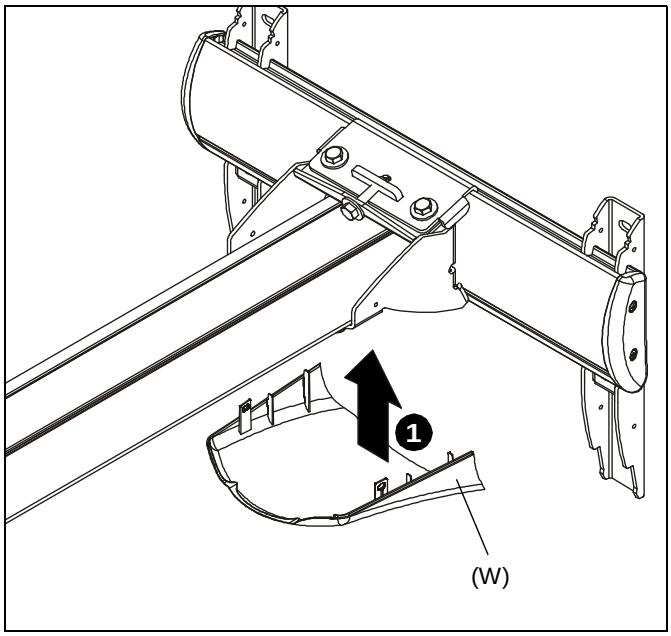


Figure 14

2. Lower the upper cover (V) onto the wall mount and fasten through upper cover (V), lower cover (W) and into wall mount with two 8-32 x 1/2" Phillips pan head screws (T). (See Figure 15)

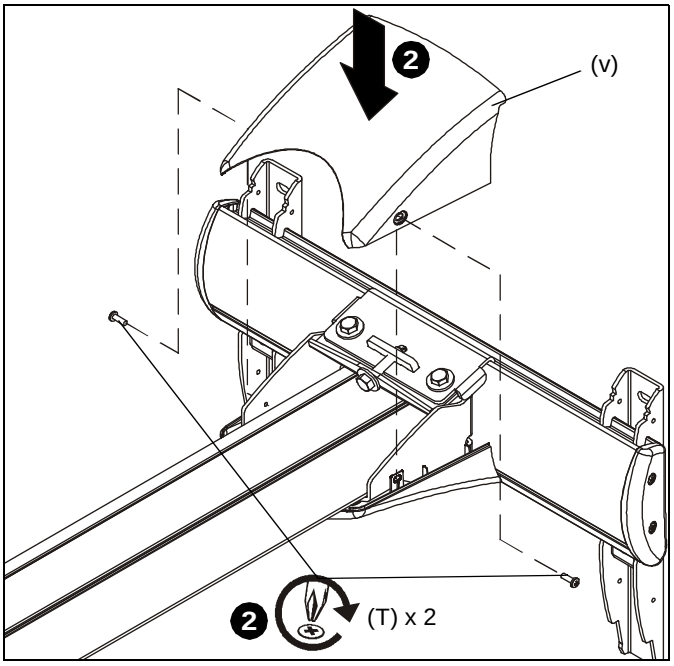


Figure 15

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 attached to the wall mount accessory up to (and including) the attached component(s) does not exceed:

- Installed in steel stud: 75 lbs (34.0 kg)
- Installed in 2" x 4" wood stud: 150 lbs (68.0 kg)
- Installed in concrete/concrete block (with NO drywall attached to wall): 150 lbs (68.0 kg)

Column (not included) Installation

1. Line up mounting holes on column (not included) with corresponding hole on WMA2S mounting plate. (See Figure 16)

IMPORTANT ! : The maximum length column that can be attached to the WMA2S is 48 inches (121.9 cm).

2. Install column (not included) following instructions included with column.
3. Install one 5/16-18 x 1/4" set screw (Q) or one 5/16-18 x 1/4" security set screw (R) through hole in WMA2S mounting plate and column. (See Figure 15)

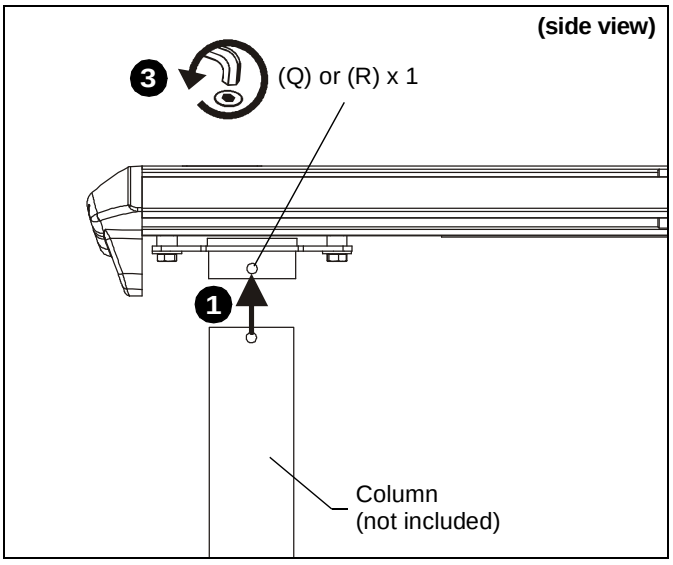


Figure 16

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 17)
2. Raise upper cover away from the mount. (See Figure 17)

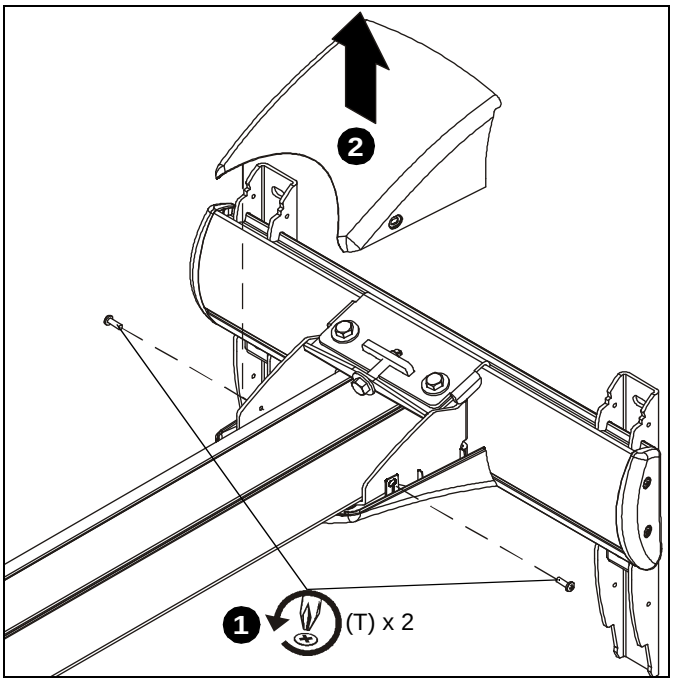


Figure 17

3. Remove lower cover from mount. (See Figure 18)

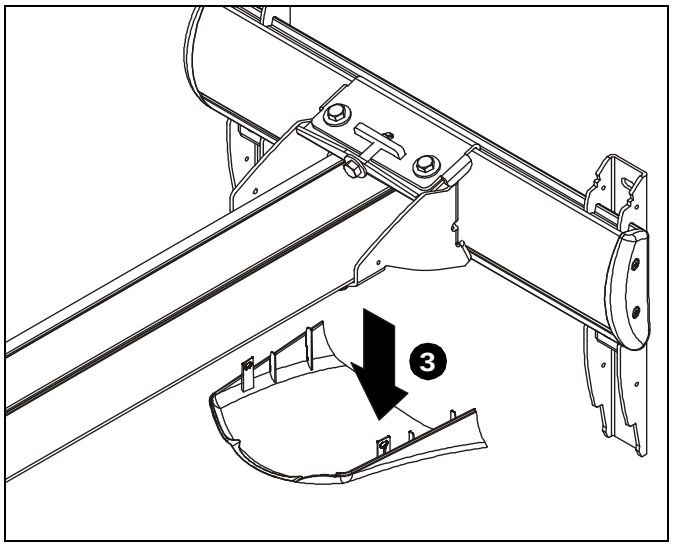


Figure 18

4. Remove cable management cover (if necessary) from WMA2S arm. (See Figure 19)

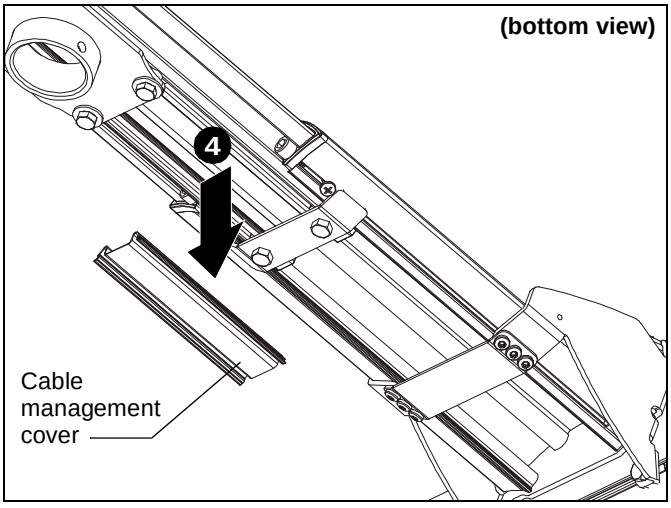


Figure 19

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 cross bracket (See Figure 20)

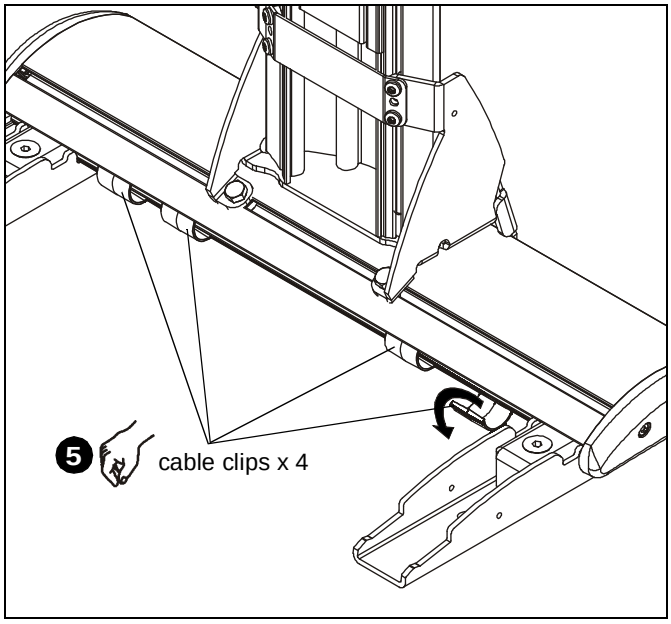


Figure 20

6. Thread cable up wall bracket channel and into opened cable clips. (See Figure 21) **Proceed to Step 7**.

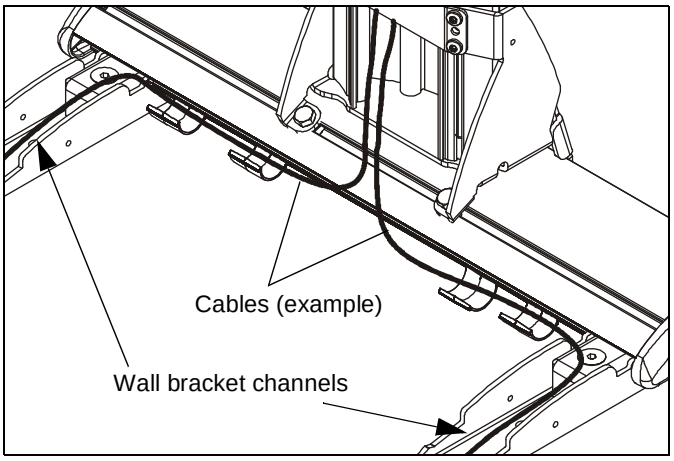


Figure 21

- **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 22) **Proceed to Step 8**

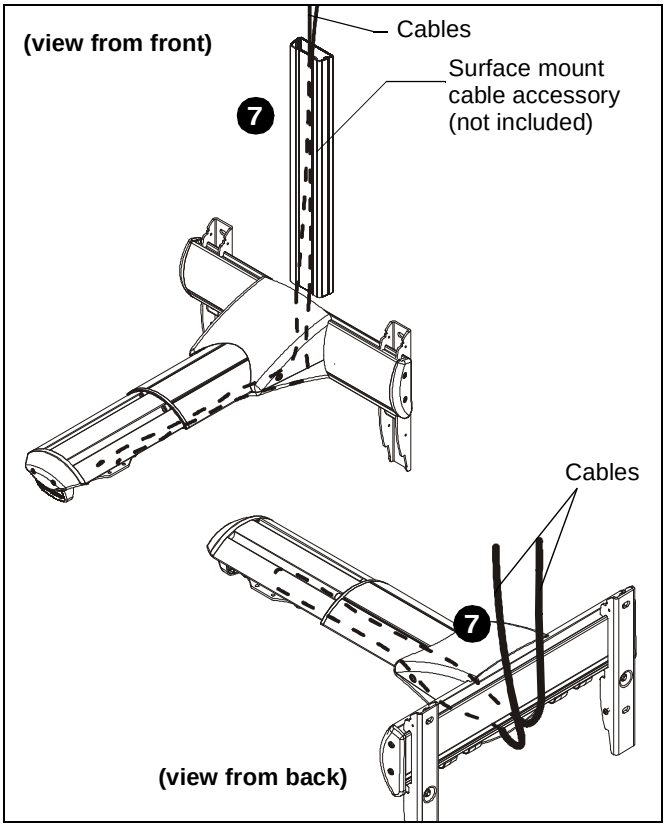


Figure 22

8. Route cables through cover mount, WMA2S arm and into column. (See Figure 23)

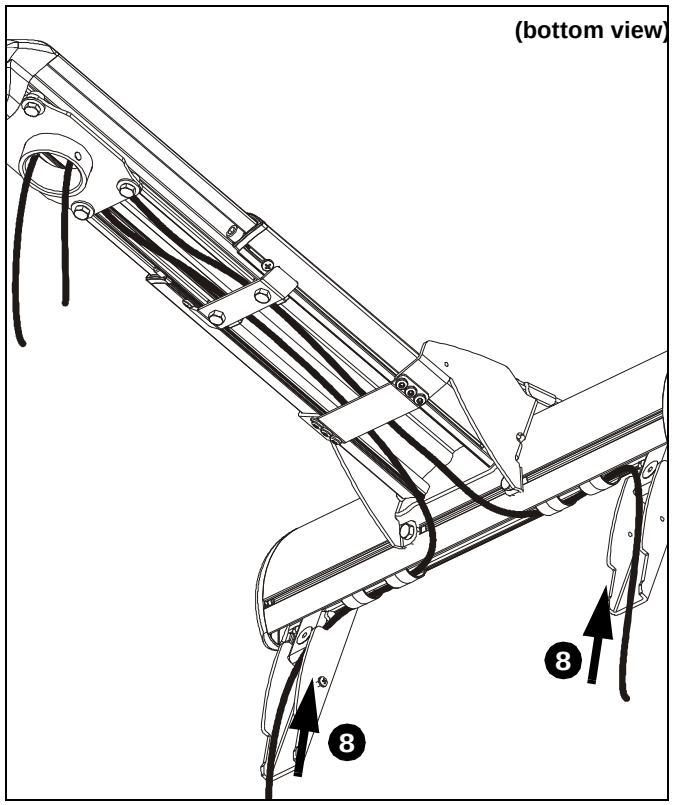


Figure 23

9. **(Optional)** Cables can be tied to inside of projector'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 24)

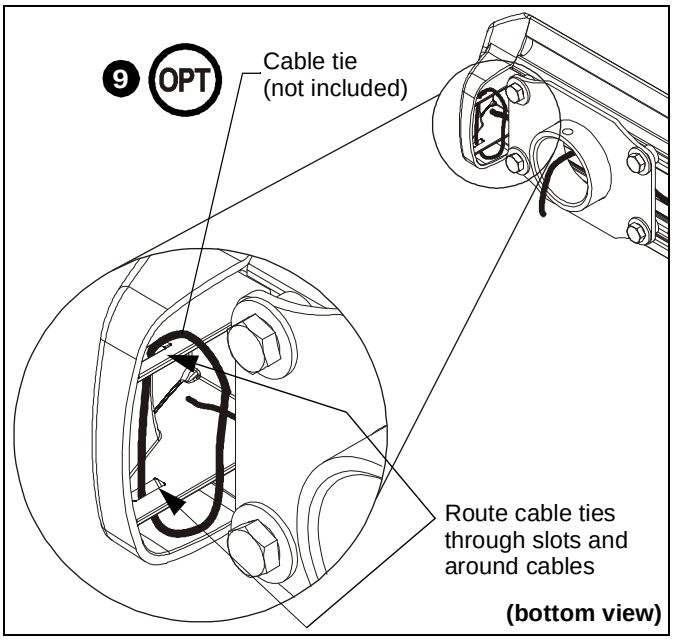


Figure 24

10. Replace removed cable management cover (if necessary) by snapping it into place. (See Figure 25)

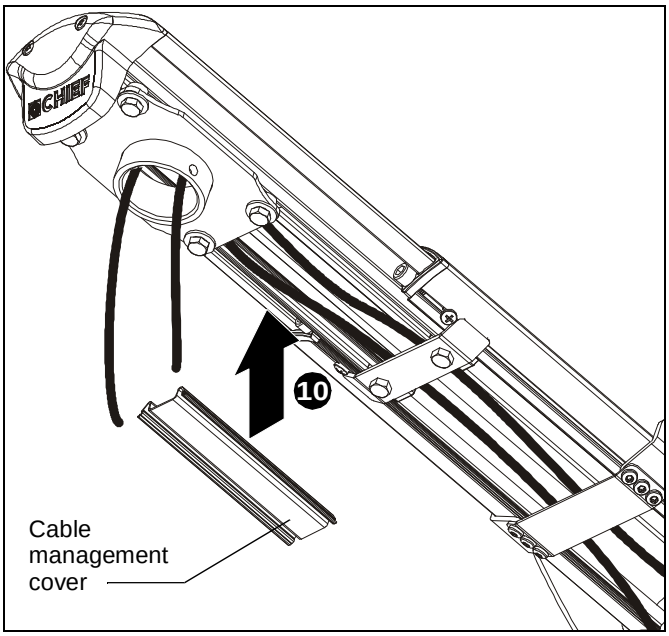


Figure 25

11. Replace mount covers on the mount following instructions in **Installing Mount Covers** section.

Installation of Mounting Bracket Covers

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

1. Place mounting bracket top covers (C) over top of each mounting bracket arm. (See Figure 26)

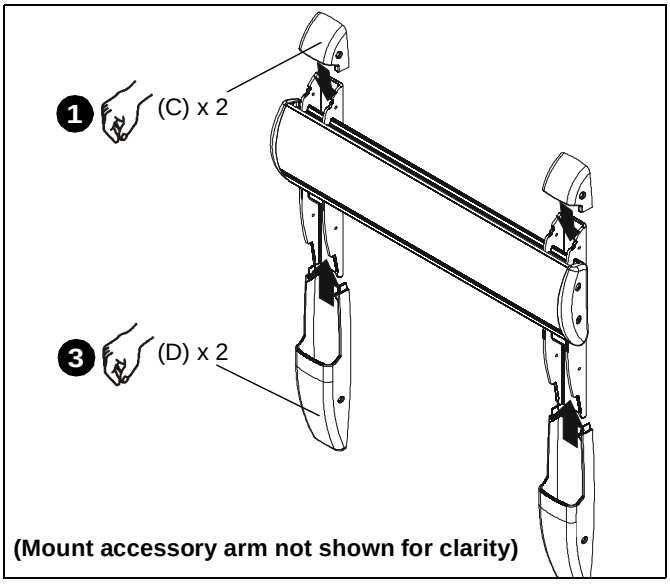


Figure 26

2. Secure wall bracket top covers (C) to wall bracket arms by installing four #8-32 x 1/2" Phillips pan machine screws (T) through holes in covers and wall bracket. (See Figure 27)
3. Place wall bracket bottom covers (D) over bottom of each wall bracket arm. (See Figure 26)
4. Secure wall bracket bottom covers (D) to wall bracket arms by installing four #8-32 x 1/2" Phillips pan machine screws (T) through holes in covers and wall bracket. (See Figure 27)

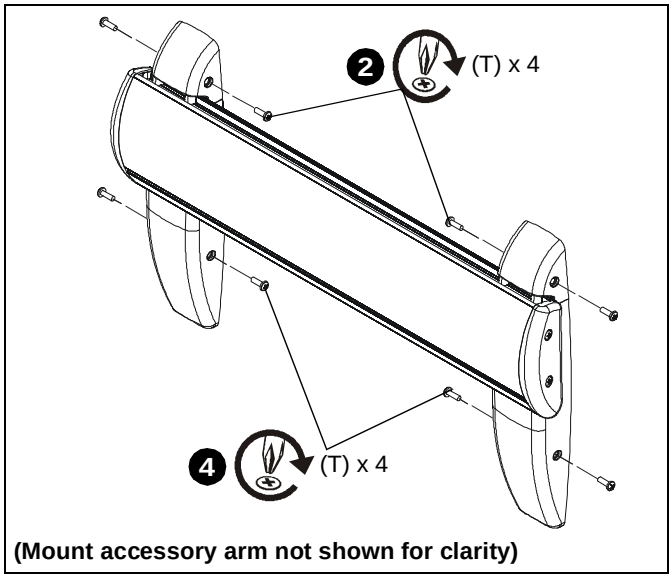


Figure 27

Adjustments

Bracket Width Adjustment

1. Loosen two flat head cap screws on wall bracket. (See Figure 28)
2. Slide wall brackets to corresponding width of studs. (See Figure 28)
3. Tighten two flat head cap screws on wall bracket. (See Figure 28)

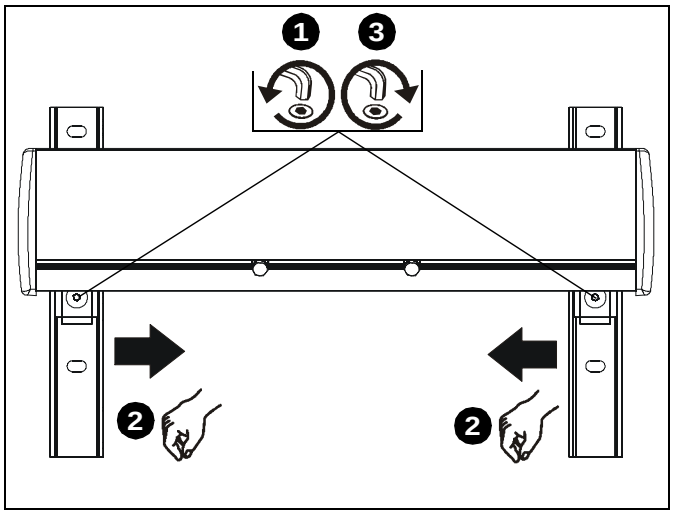


Figure 28

Pitch Adjustment

1. Remove mount covers from the mount following instructions in **Removing Mount Covers** section.
2. Loosen two 1/4-20 x 5/8" hex head cap screws (P) on underside of mounting bracket. (See Figure 29)

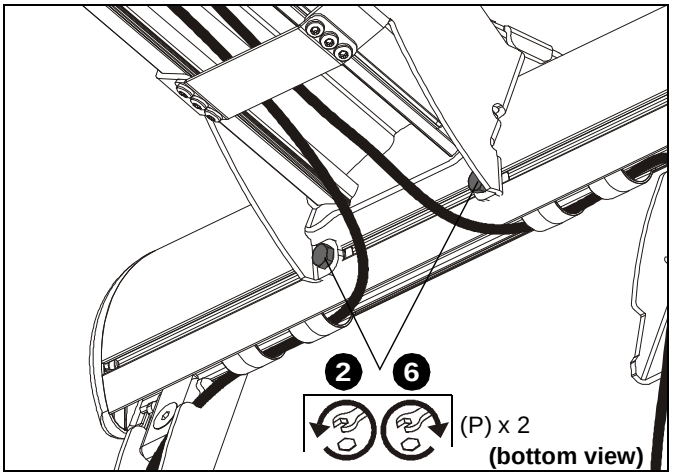


Figure 29

3. Loosen two bolts on either side of pitch adjustment screw. (See Figure 30)
4. Adjust pitch adjustment screw until mount is at desired pitch level.
   - Turn **clockwise** to raise mounting level.
   - Turn **counterclockwise** to lower mounting level. (See Figure 30)
5. Tighten two bolts on either side of pitch adjustment screw. (See Figure 30)
6. Tighten two 1/4-20 x 5/8" hex head screws (P) on underside of mounting bracket. (See Figure 29)

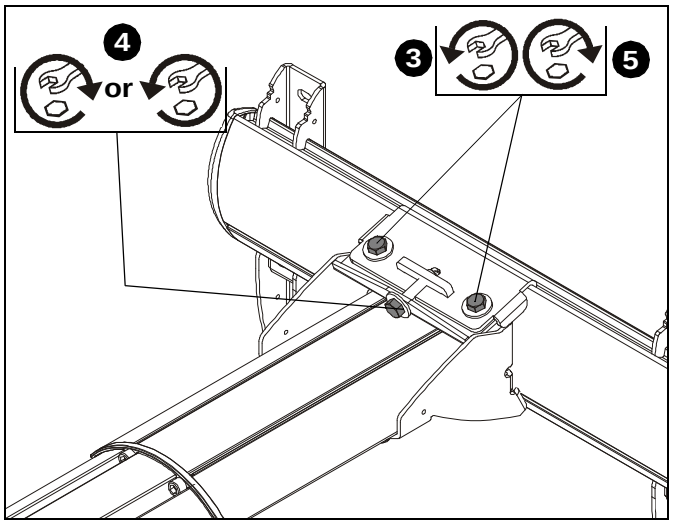


Figure 30

7. Install mount 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 WMA2S mount. (See Figure 31)
2. Adjust mount to desired extension length. (See Figure 31)
3. Tighten two bolts holding stop bracket to secure mount in desired position. (See Figure 31)

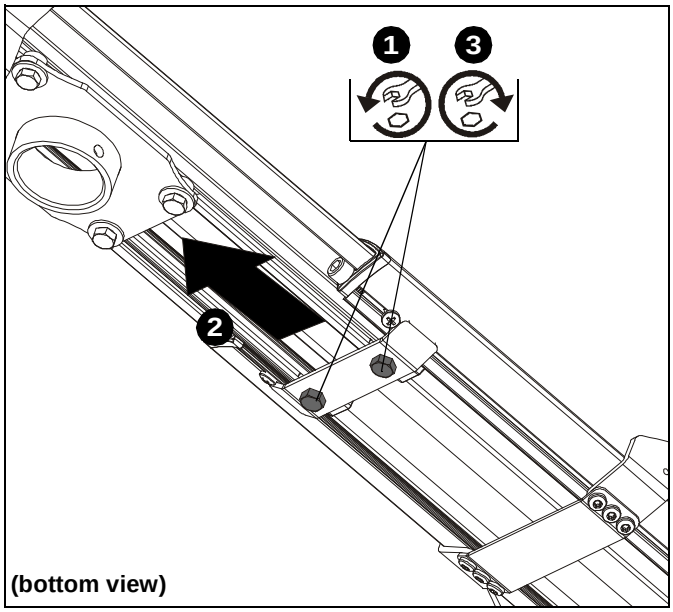


Figure 31

Lateral Shift Adjustment

1. Remove mount covers from the mount following instructions in **Removing Mount Covers** section.
2. Loosen two 1/4-20 x 5/8" hex head cap screws (P) on underside of mounting bracket. (See Figure 32)
3. Adjust projector arm laterally to desired position. (See Figure 32)
4. Tighten two 1/4-20 x 5/8" hex head cap screws loosened in Step 4. (See Figure 32)

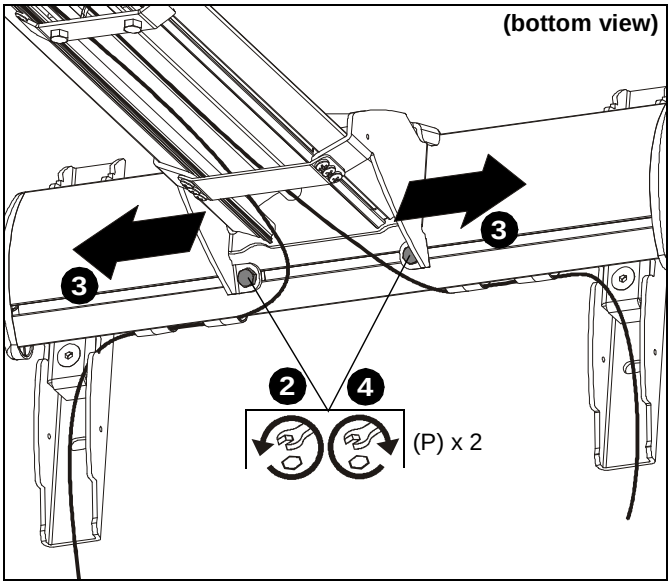


Figure 32

5. Install mount covers to the mount following instructions in **Installing Mount Covers** section.

Security Screw Installation (Optional)

1. Remove eight #8-32 x 1/2" Phillips pan machine screws (T) from wall bracket covers. (See Figure 33)

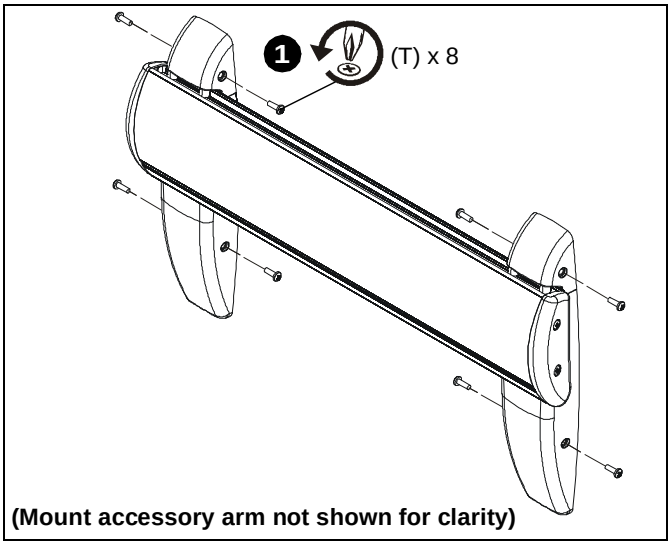


Figure 33

2. Install eight #8-32 x 1/2" button head security screws (M) into holes in wall bracket covers. (See Figure 34)

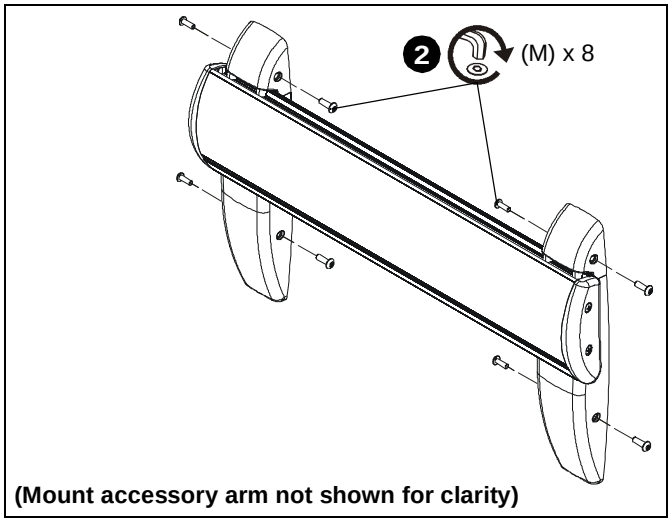


Figure 34

3. Remove two #8-32 x 1/2" Phillips pan machine screws (T) holding mount covers on WMA2S arm. (See Figure 35)

4. Install two #8-32 x 1/2" button head security screws (M) into holes on mount covers. (See Figure 35)

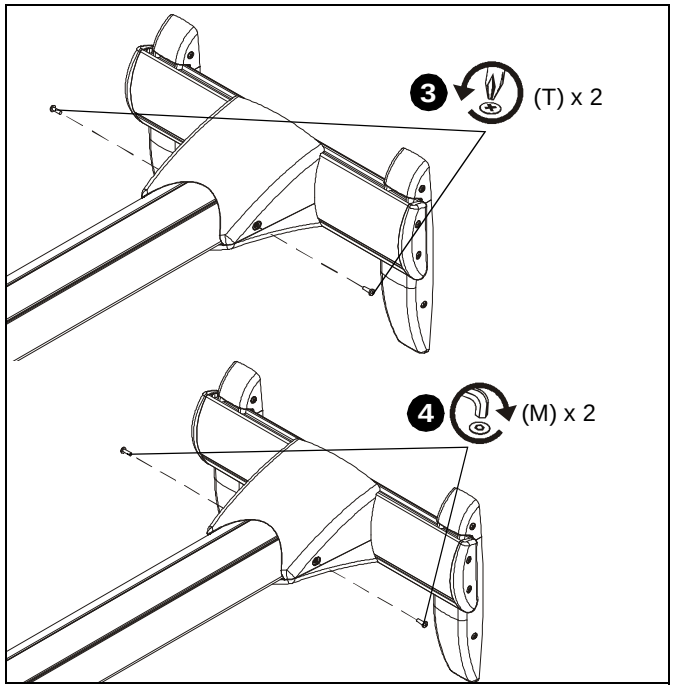


Figure 35

5. Remove two bolts holding stop bracket in place on underside of short throw projector mount. (See Figure 36)

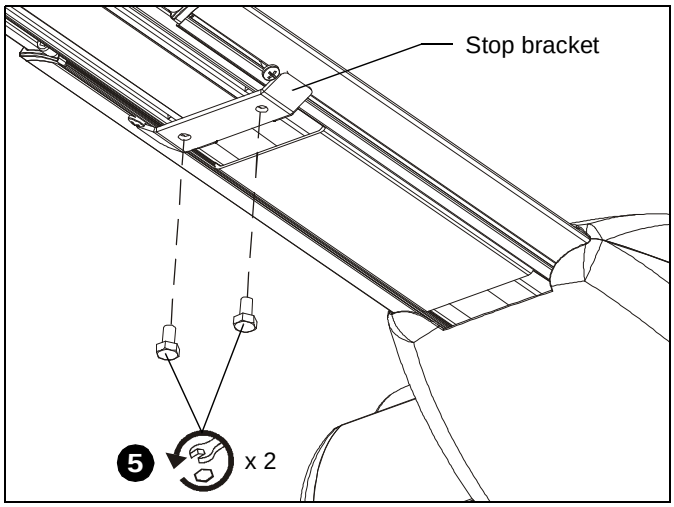


Figure 36

6. 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 37)

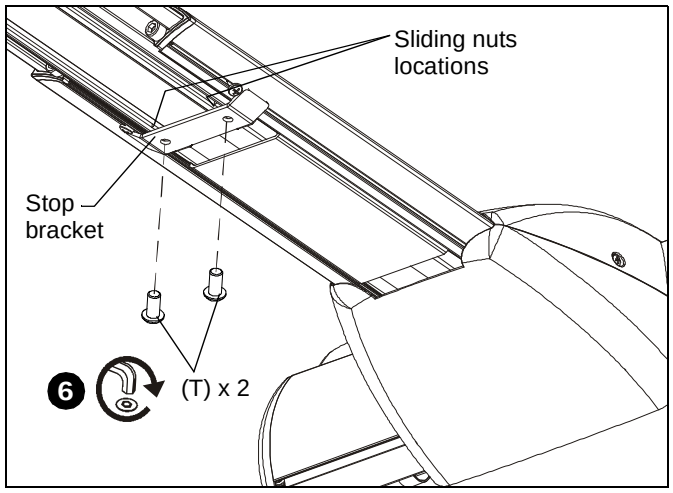


Figure 37

7. **(Optional)** Remove column from WMA2S according to column installation instructions.

NOTE: For ease of installation, it is recommended to remove column prior to performing the following steps. For most mounts, it will be necessary to remove column prior to install of four security screws to WMA2S.

8. Remove one of four bolts from adapter plate. (See Figure 38)
9. Install one 1/4-20 x 3/4" button head security screw (L) into hole vacated by removing bolt in Step 8 and into plastic spacer. (See Figure 39)
10. Repeat Steps 8-9 for remaining three bolts, one bolt at a time.

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

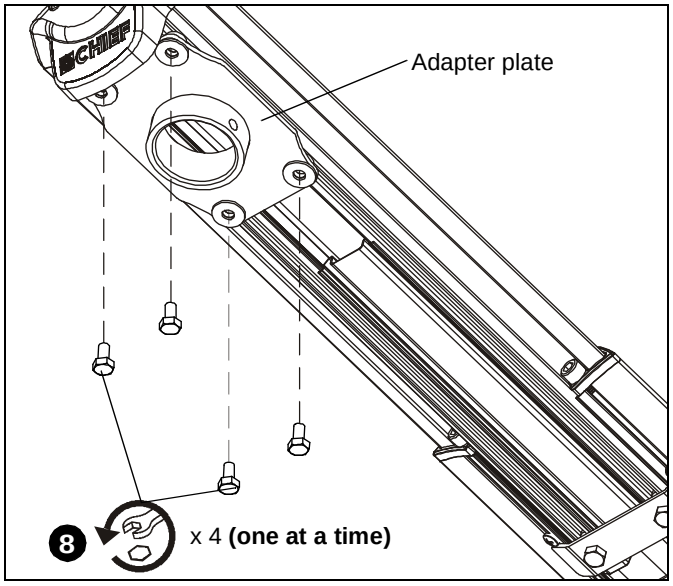


Figure 38

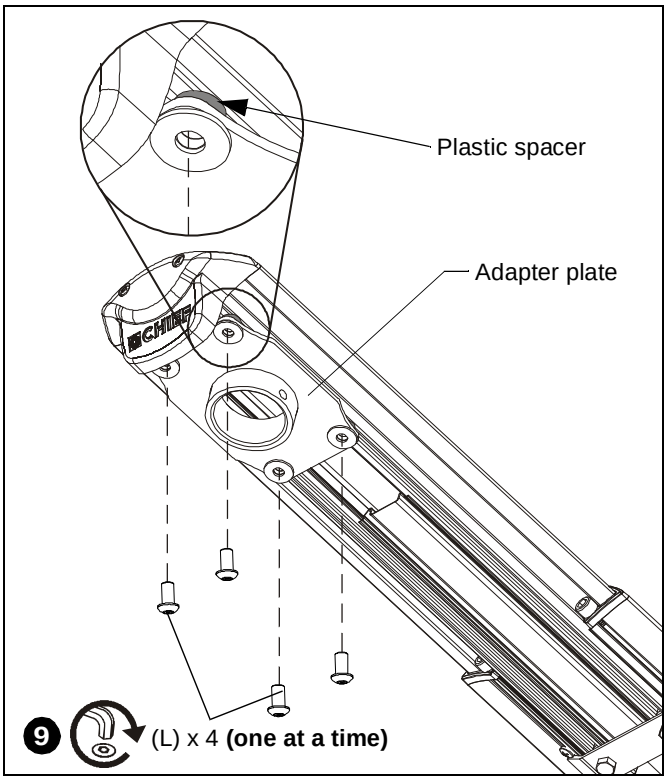


Figure 39

Reinstall column according to column installation instructions.

CHIEF®

Our Mounts. **Your Vision.**

Chief Manufacturing, a products division of Milestone AV Technologies

8802-002084 Rev00
©2011 Milestone AV Technologies, a Duchossois Group Company
www.chiefmfg.com
06/11

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 Fellenoord 130 5611 ZB EINDHOVEN, The Netherlands
P +31 (0)40 2668620
F +31 (0)40 2668615

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

30% POST-CONSUMER CONTENT