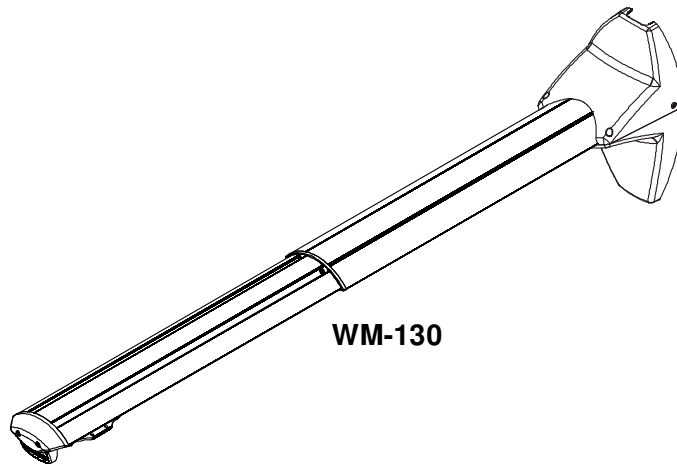
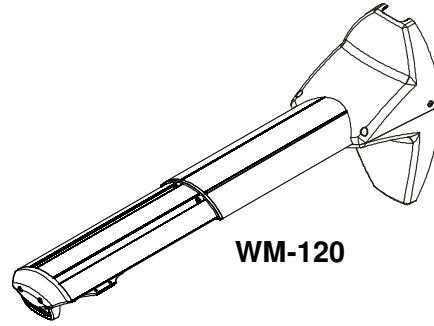
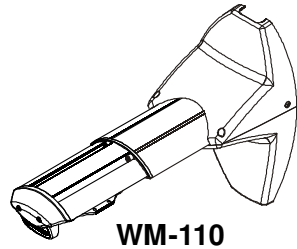


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# INSTALLATION INSTRUCTIONS

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## Single Stud Short Throw Wall Mounts

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## 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.

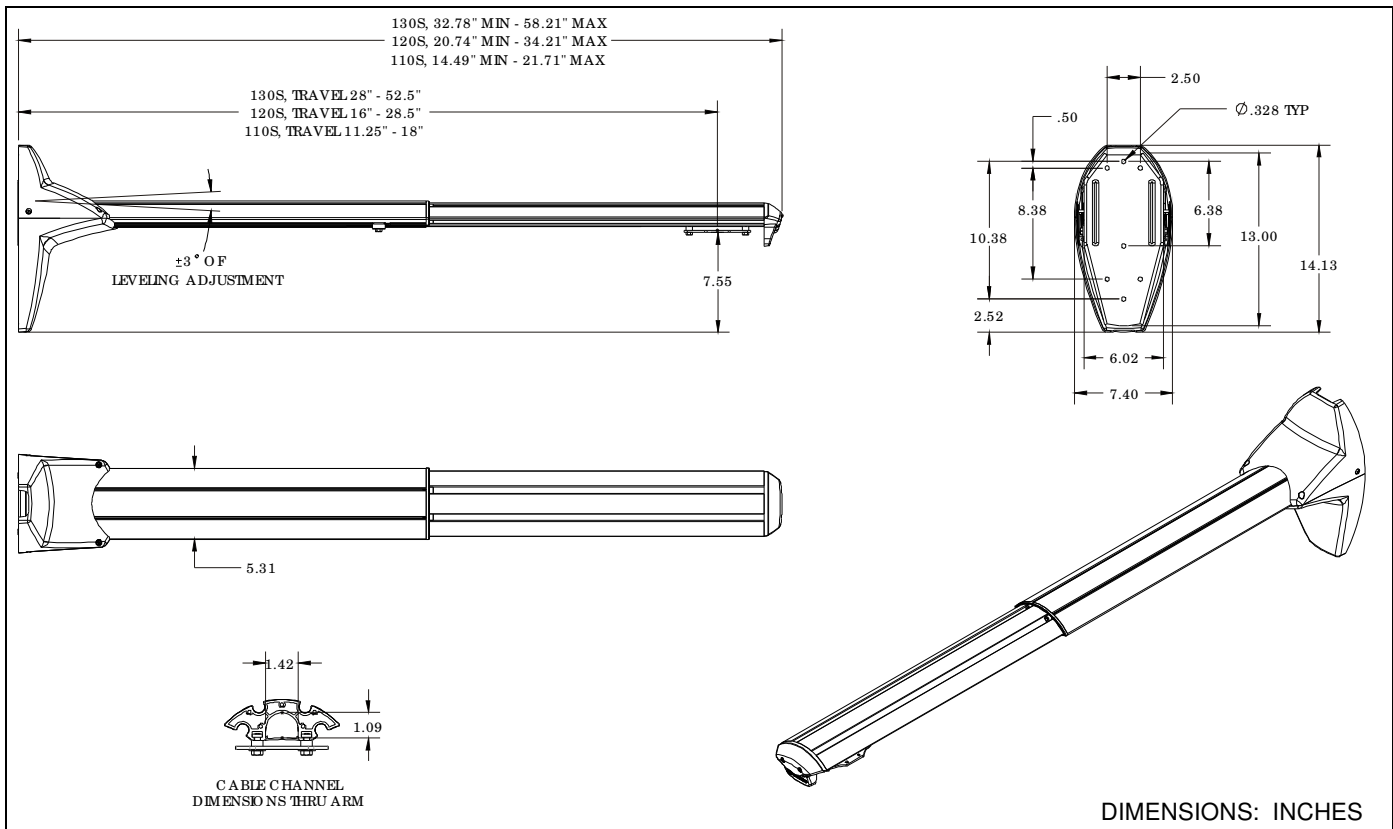


**WARNING:** Failure to provide adequate structural strength for this component can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the structure to which this component is attached can support five times the combined weight of all equipment.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

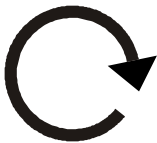

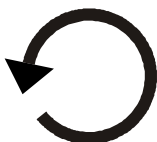


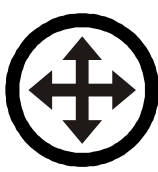








**WARNING:** Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the combined weight of all components attached to the short throw projector mounts up to (and including) the projector does not exceed 50 lbs (22.68 kg) for the WM110 or the WM120; or 25 lbs (11.34 kg) for the WM130.

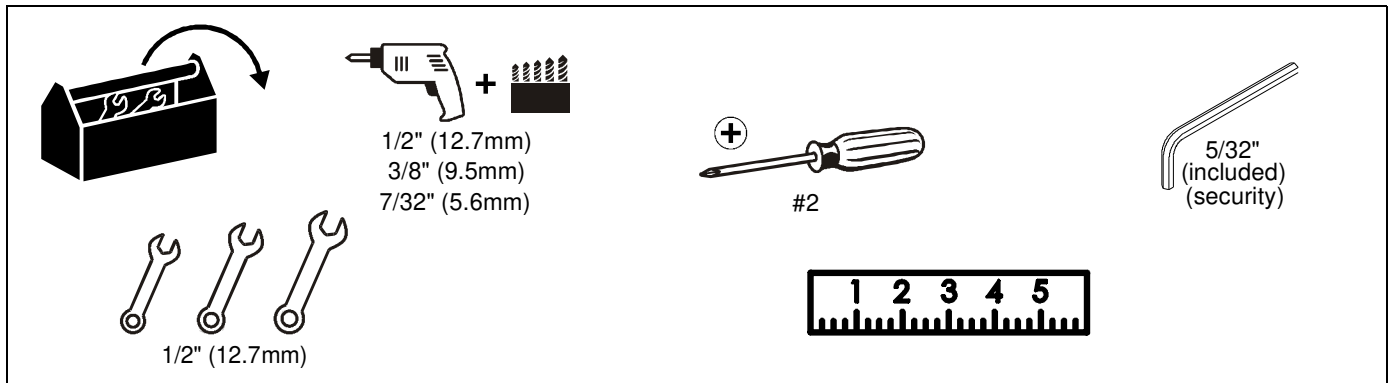
## DIMENSIONS



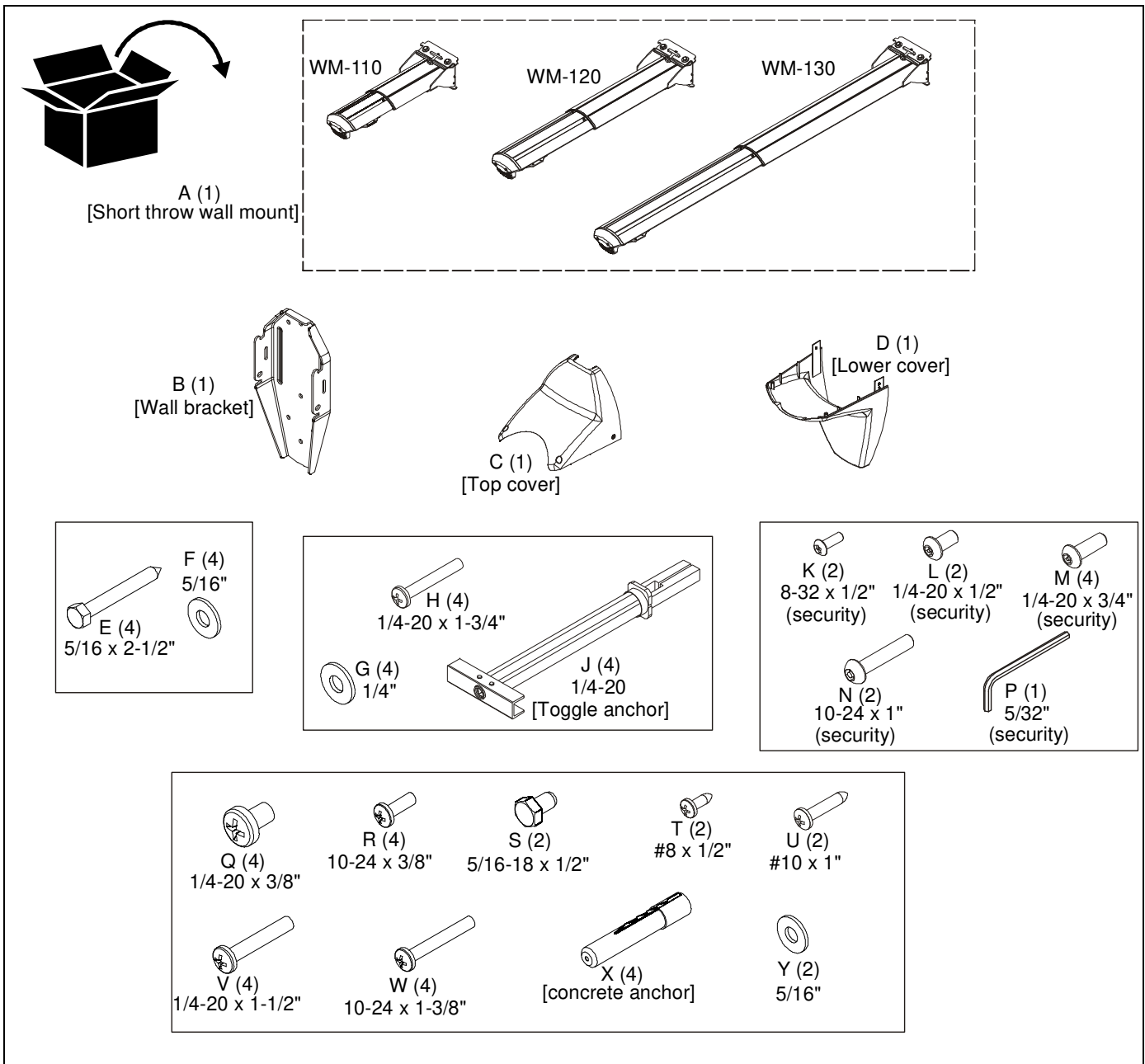
**LEGEND**

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

## TOOLS REQUIRED FOR INSTALLATION



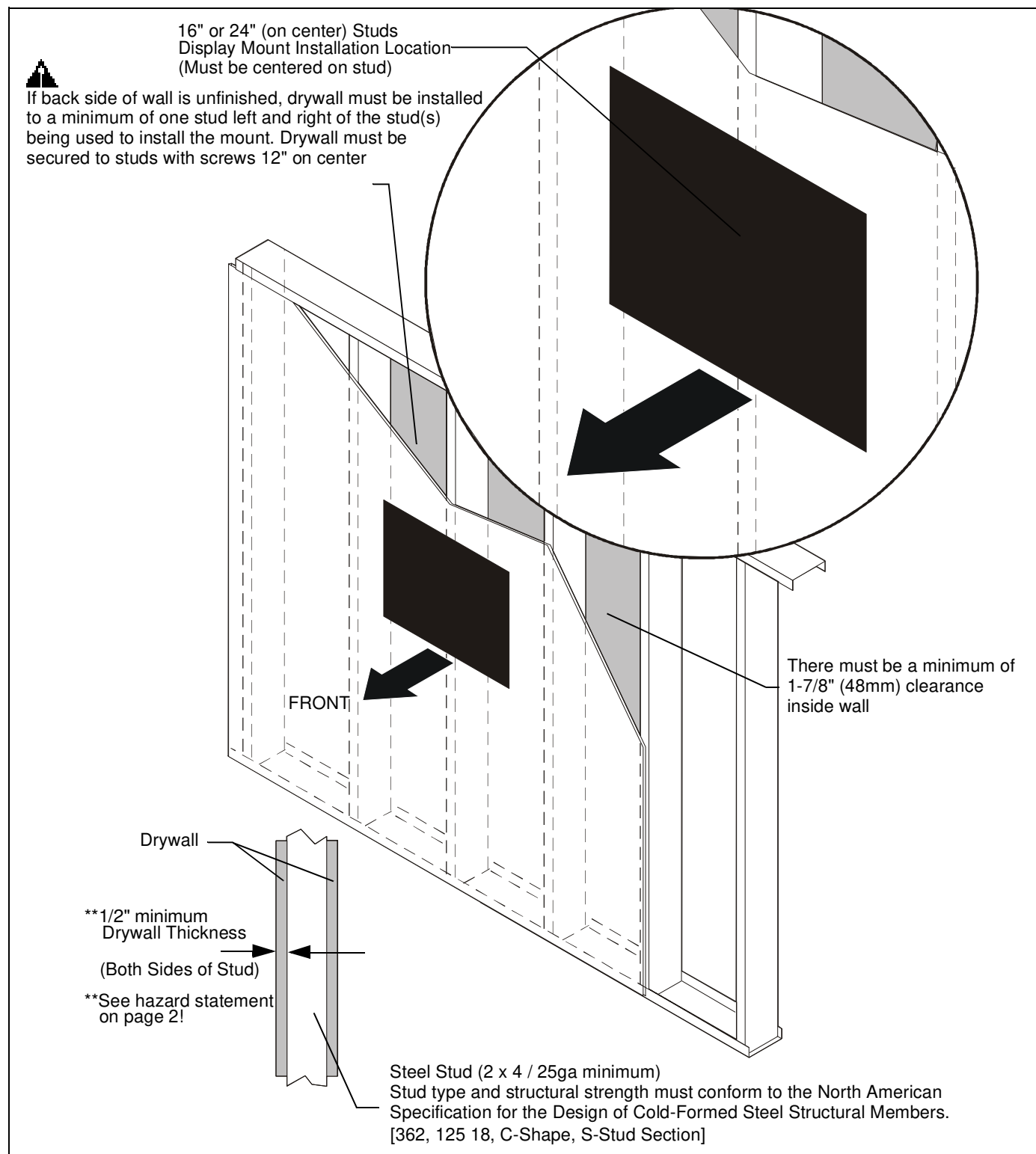
## PARTS



## 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 WM1XXS single stud short throw wall mount can be mounted to concrete, concrete block, 2" x 4" wood studs or steel studs.

### 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.

### Mounting Wall Bracket

#### Concrete or Concrete Block

1. Determine mounting location on wall.
2. Using mounting bracket (B) as a template, mark four holes at the outer 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)

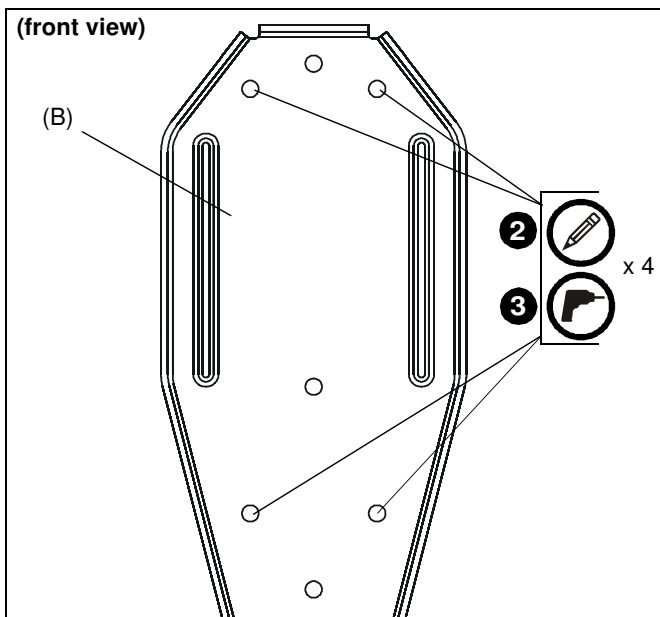


Figure 1

4. Install four concrete anchors (X) 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 wall bracket (B) and into concrete anchors (X). (See Figure 2)

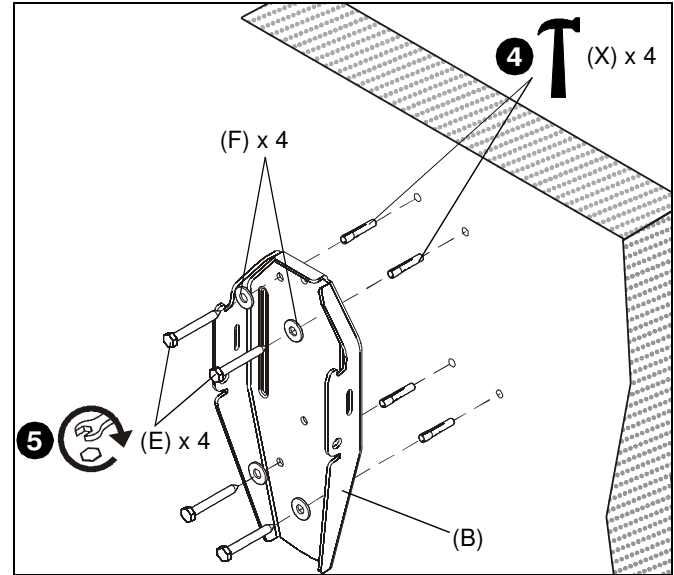


Figure 2

### 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 studs.
2. Line up inner three holes on wall bracket (B) with center of stud at desired mounting location. (See Figure 3)
3. Using wall bracket (B) as a template, mark three holes at inner three holes in bracket. (See Figure 3)
4. Drill three 7/32" x 2-1/2" deep holes at locations marked in Step 3. (See Figure 3)

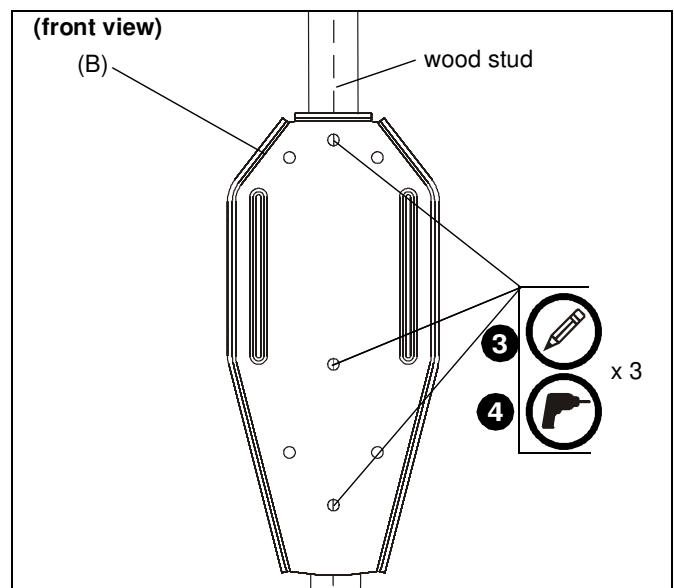
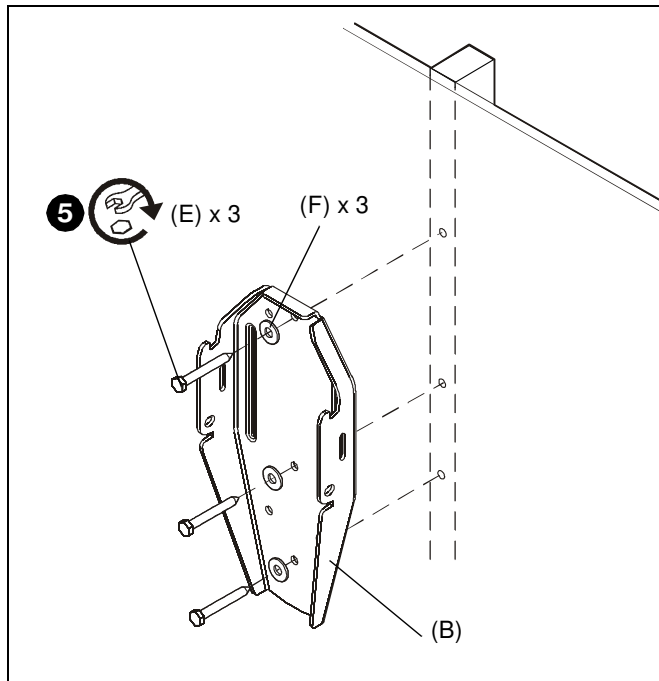


Figure 3

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

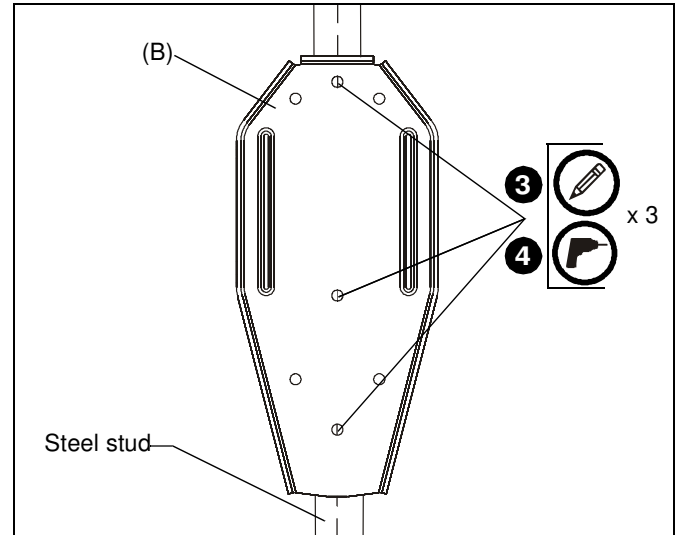


### Figure 4

## Steel Studs

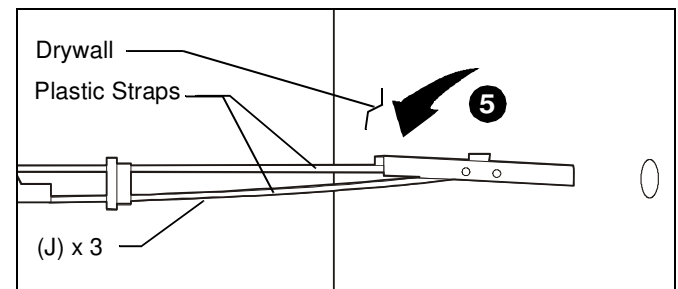
**IMPORTANT ! :** See **Site Requirements** section before proceeding with Steel Studs installation to ensure installation site meets requirements! The drywall must have a minimum thickness of 1/2"!

1. Determine mounting location on wall. Use stud finder to locate steel studs.
2. Line up inner three holes on wall bracket (B) with center of stud at desired mounting location. (See Figure 5)
3. Using wall bracket (B) as a template, mark three holes at inner three holes in bracket. (See Figure 5)
4. Drill three 1/2" holes at marked locations in wall. (See Figure 5)



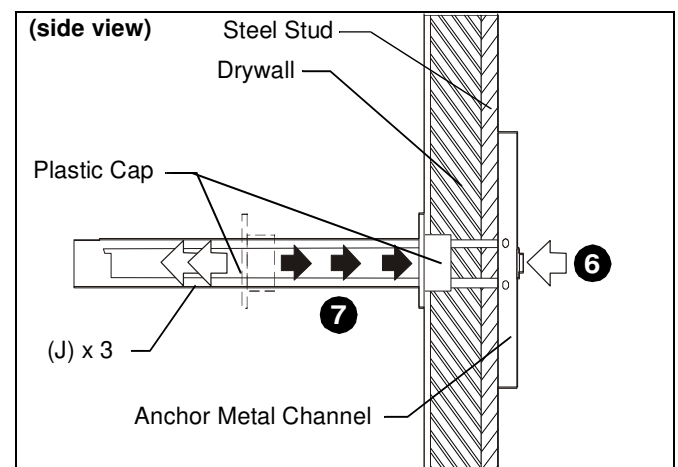
### Figure 5

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 5 through 8 for each mounting hole.

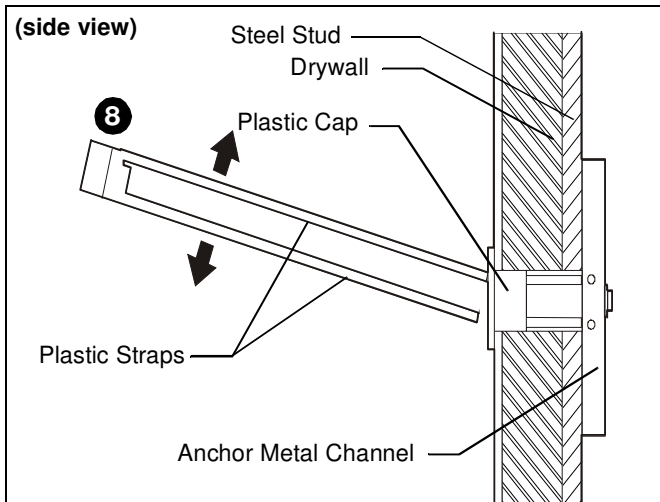


Figure 8

10. Place wall bracket over anchors and align mounting holes in display mount 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 wall bracket and into anchor (J) and tighten until flush against mount. DO NOT overtighten! (See Figure 9)
12. Repeat Steps 10 through 11 for remaining 2 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!

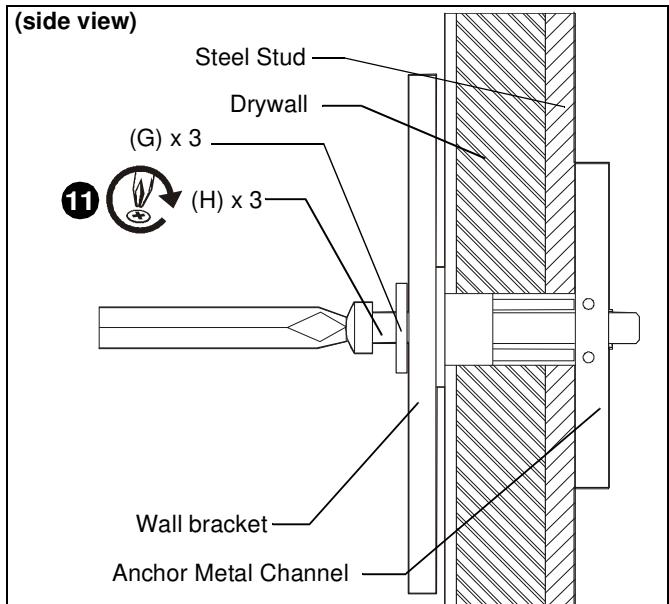


Figure 9

### Installation to Wall Bracket

1. Lift WM1XXS assembly (A) up to wall bracket (B) and hook upper plate over upper notches on bracket. (See Figure 10)
2. Slide lower plate into lower notches on bracket. (See Figure 10)

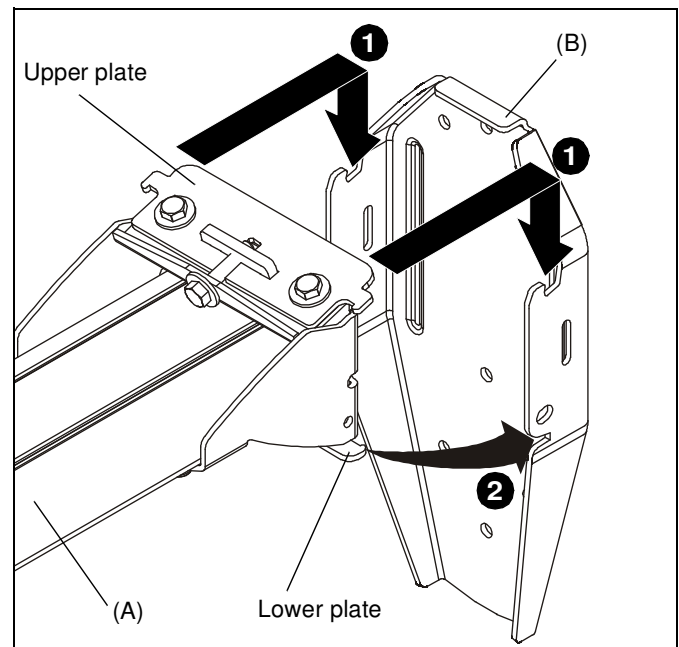


Figure 10

3. Fasten WM1XXS assembly (A) to wall bracket (B) using two 5/16 x 1/2" hex head cap screws (R) through two 5/16" washers (Y), the wall bracket and WM1XXS. (See Figure 11)



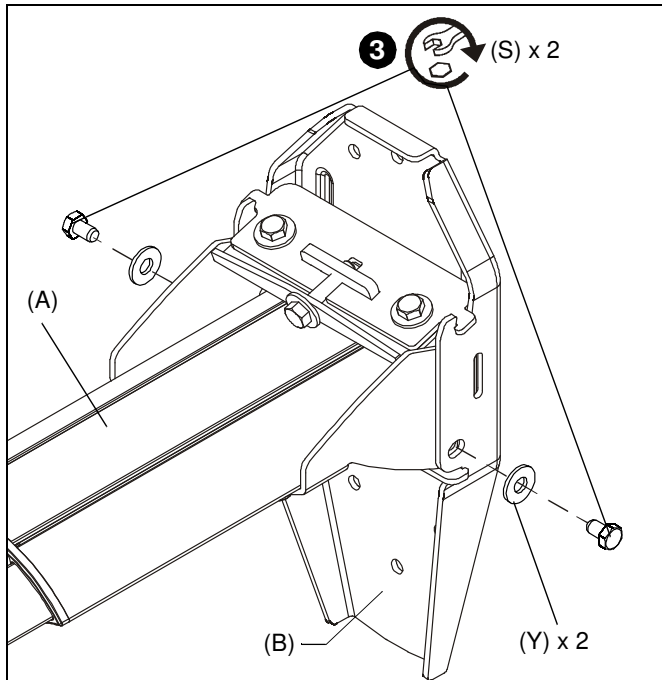


Figure 11

### Installing Mount Covers

1. Raise lower cover (D) up to WM1XXS. (See Figure 12)

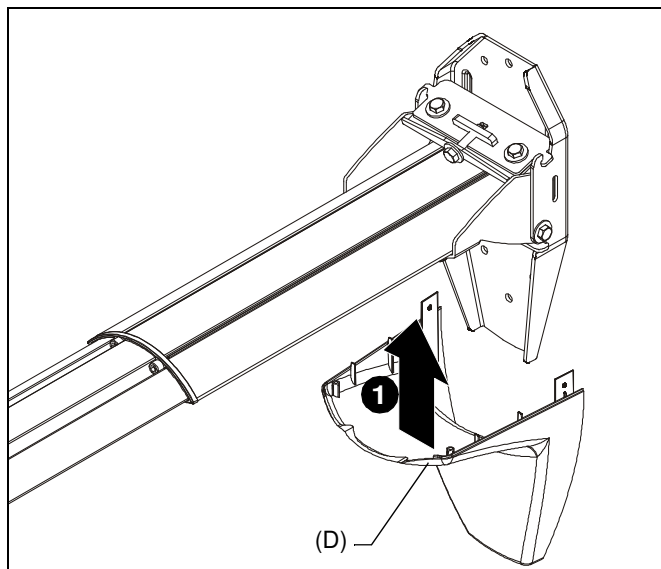


Figure 12

2. Lower top cover (C) onto WM1XXS. (See Figure 13)
3. Install two #10 x 1" Phillips pan head tapping screws (U) through holes on sides of covers. (See Figure 13)
4. Install two #8 x 1/2" Phillips pan head tapping screws (T) into top of top cover (C). (See Figure 13)

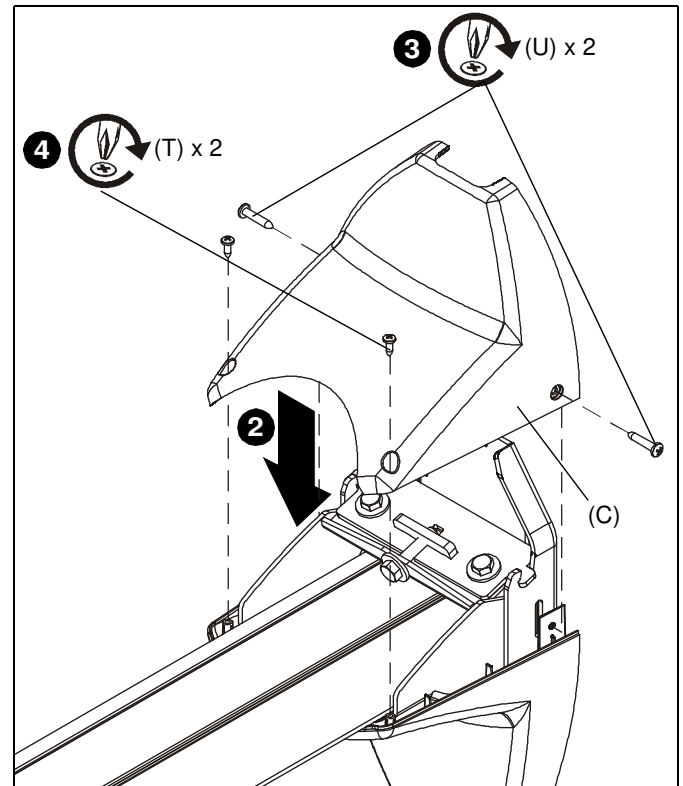


Figure 13

### 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 WM110 or the WM120 or 25 lbs (11.34 kg) for the WM130.

Determine hole configuration to use for each specific projector mount. (See Figure 14)

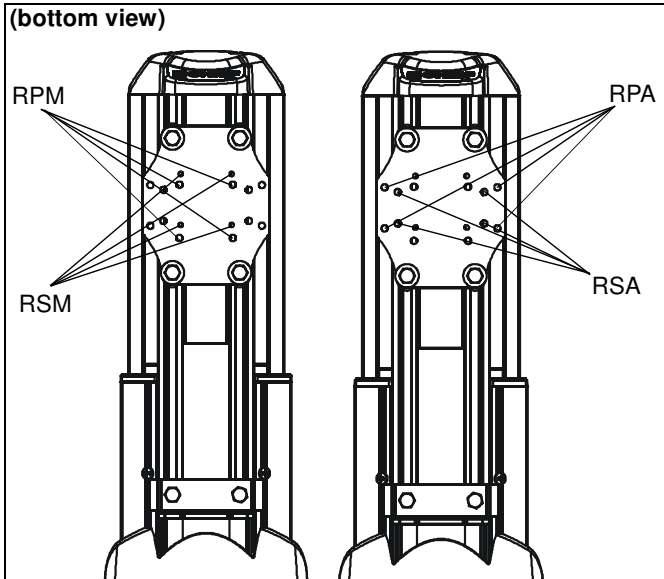


Figure 14

### RPM Installation

1. Line up mounting holes on RPM mount with corresponding holes on projector mounting plate. (See Figure 14)
2. Install four 1/4-20 x 1-1/2" Phillips pan machine screws (V) through RPM holes and into projector mounting plate. (See Figure 15)

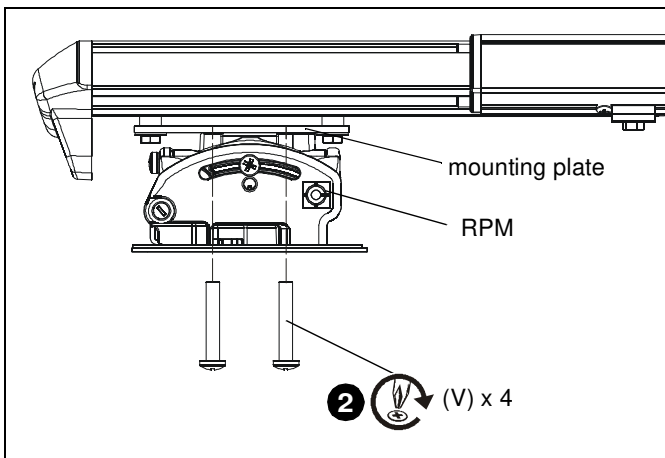


Figure 15

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 14)
2. Install four 10-24 x 1-3/8" Phillips pan machine screws (W) through RSM holes and into projector mounting plate. (See Figure 16)

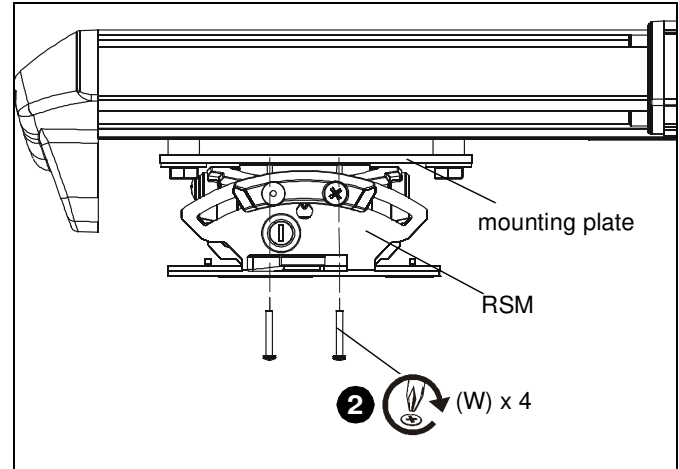


Figure 16

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 14)
2. Install four 1/4-20 x 3/8" Phillips pan machine screws (Q) through RPA holes and into projector mounting plate. (See Figure 17)

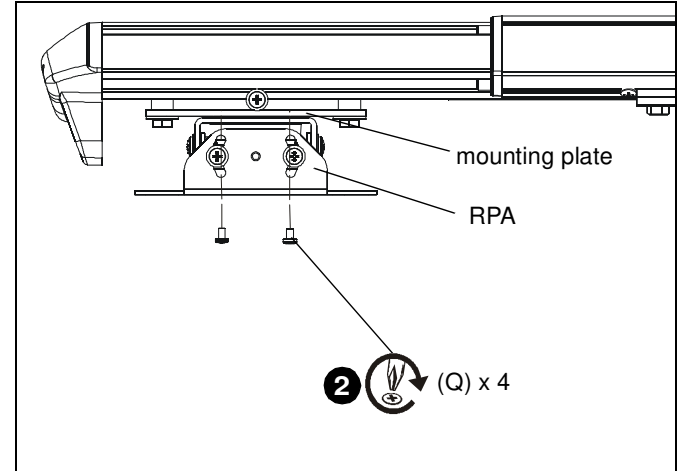


Figure 17

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 14)
2. Install four 10-24 x 3/8" Phillips pan machine screws (R) through RSA holes and into projector mounting plate. (See Figure 18)

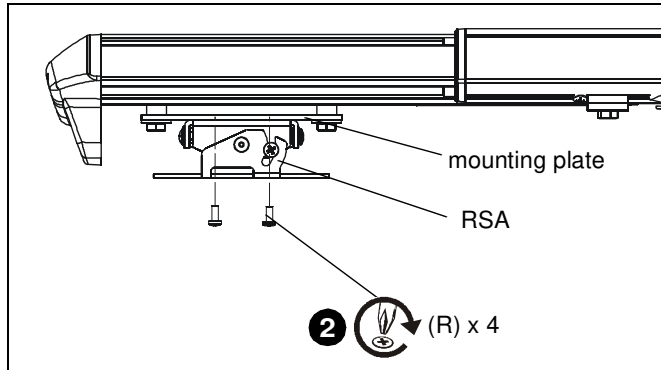


Figure 18

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

### Removing Mount Covers

1. Remove two #8 x 1/2" Phillips pan tapping screws (T) and two #10 x 1" Phillips pan tapping screws (U) to free top cover (C) and expose pitch adjustment screw. (See Figure 19)
2. Remove lower cover (D) from WMA1S. (See Figure 19)

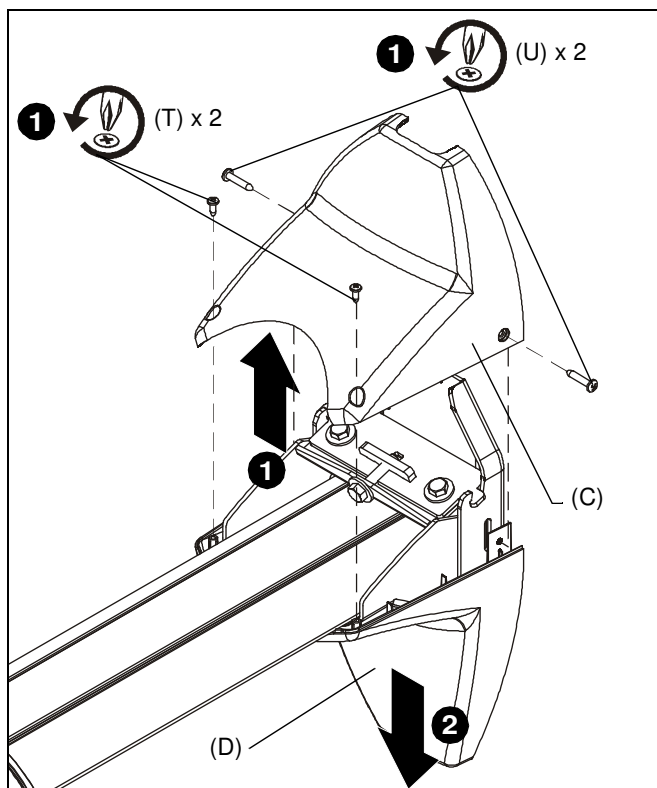


Figure 19

### Pitch Adjustment

1. Loosen two 5/16 x 1/2" hex head screws (S) (one on each side of wall bracket). (See Figure 20)
2. Loosen two bolts (one on each side of pitch adjustment screw). (See Figure 20)
3. 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 20)
4. Tighten two bolts (one bolt on either side of pitch adjustment screw). (See Figure 20)
  5. Tighten two 5/16 x 1/2" hex head screws (S) (one on each side of mounting bracket). (See Figure 20)

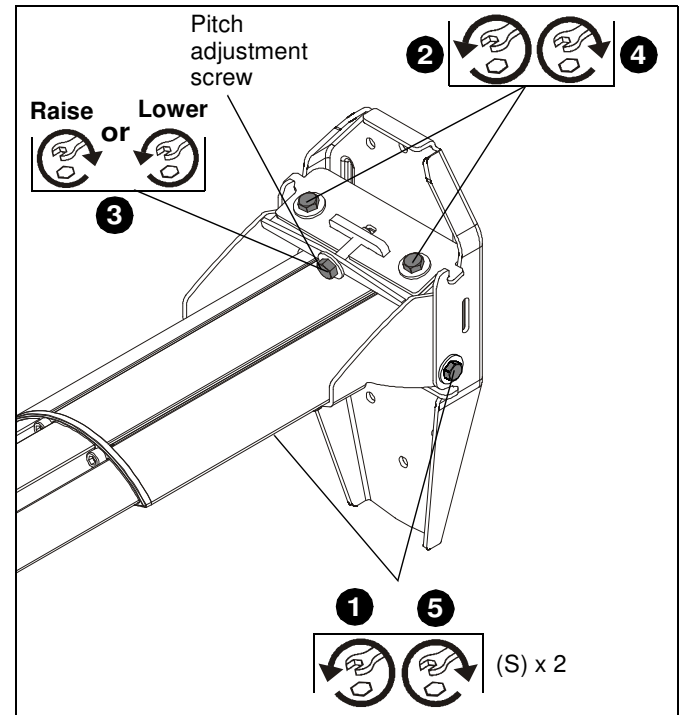


Figure 20

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

### Cable Management (Optional)

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

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

1. Remove cable management covers (if necessary) from short throw projector arm. (See Figure 21)

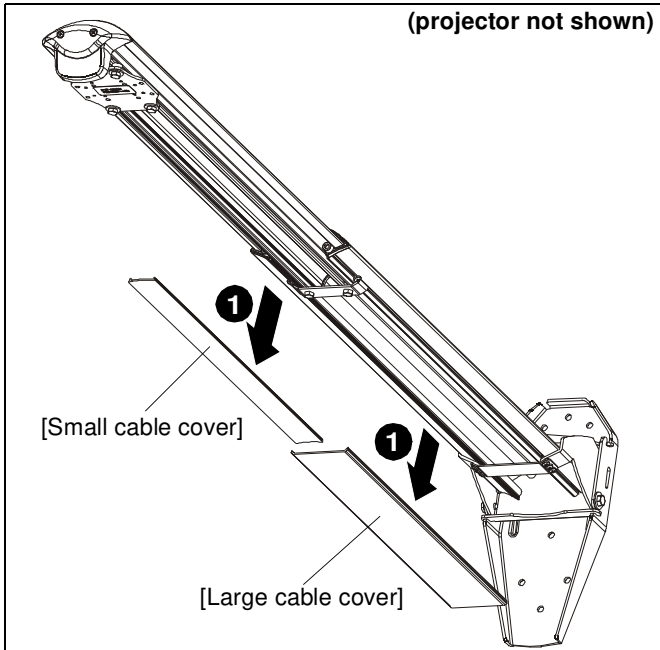


Figure 21

2. Route projector cable(s) under mount cover and through short throw projector arm tunnel. (See Figure 22)

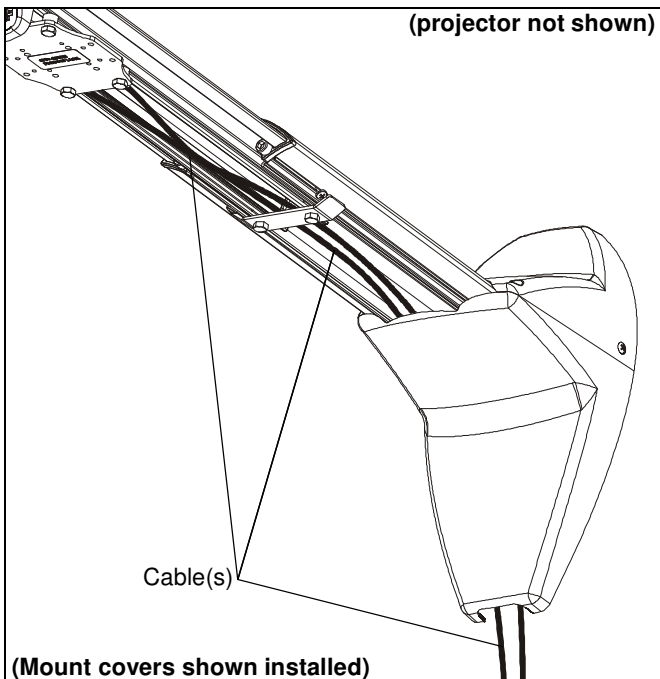


Figure 22

3. **(Optional)** Cables may be tied to inside of WM1XXS 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 23)

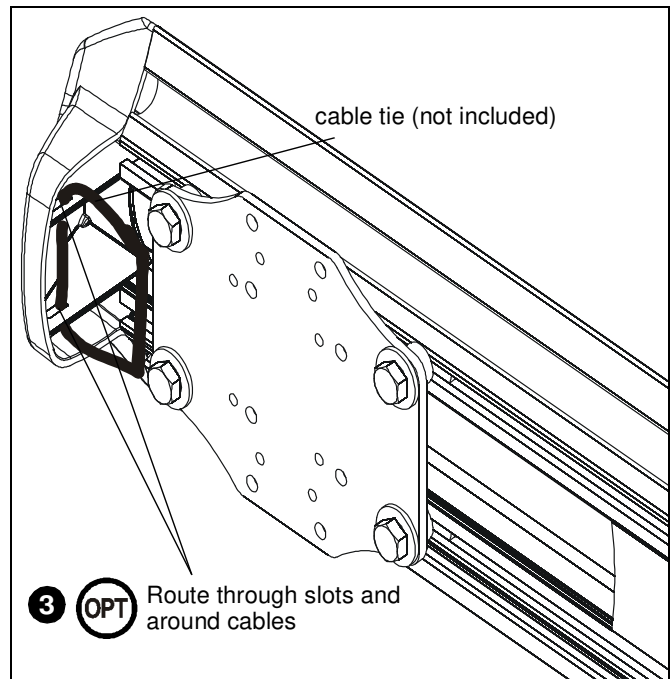


Figure 23

4. 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 24)

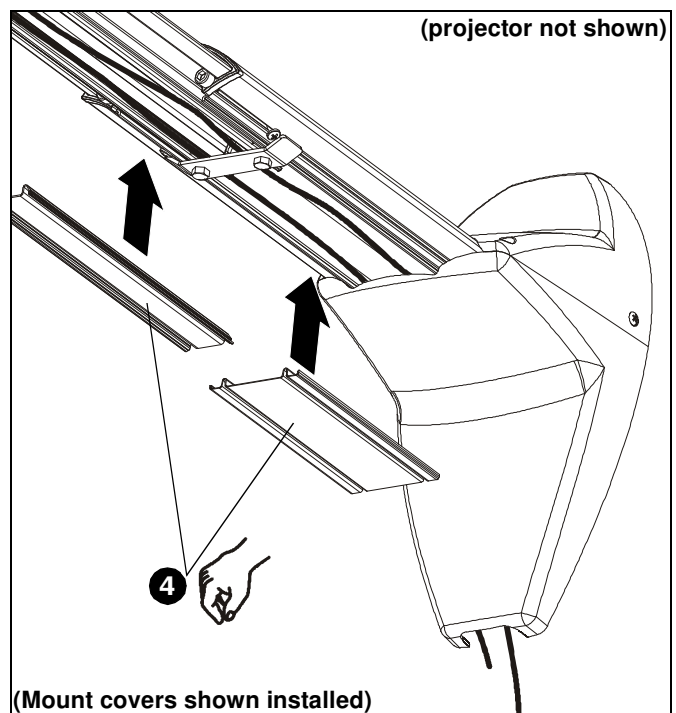


Figure 24

- 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 25)
- Adjust mount to desired extension length. (See Figure 25)
- Tighten two bolts holding stop bracket to secure mount in desired position. (See Figure 25)

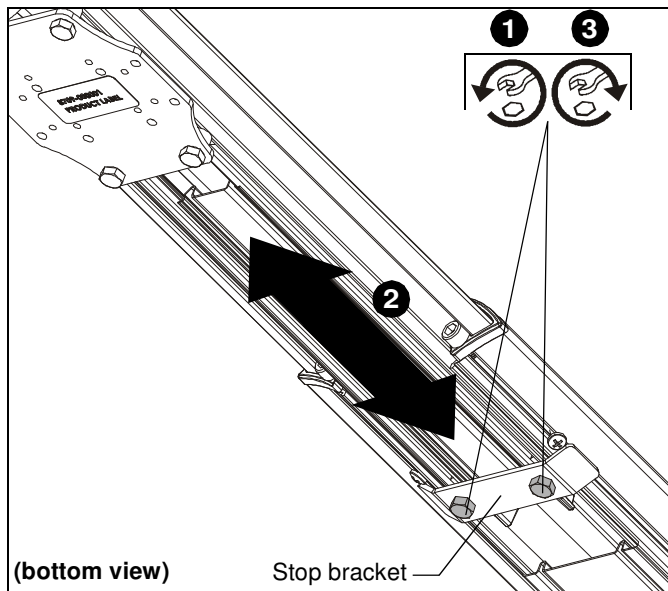


Figure 25

### Security Screw Installation (Optional)

- Remove two #8 x 1/2" Phillips screws (T) and two #10 x 1" Phillips screws (U) from top and lower covers. (See Figure 26)
- Install two 8-32 x 1/2" buttonhead security screws (K) and two 10-24 x 1" buttonhead security screws (N) into top and lower covers. (See Figure 26)

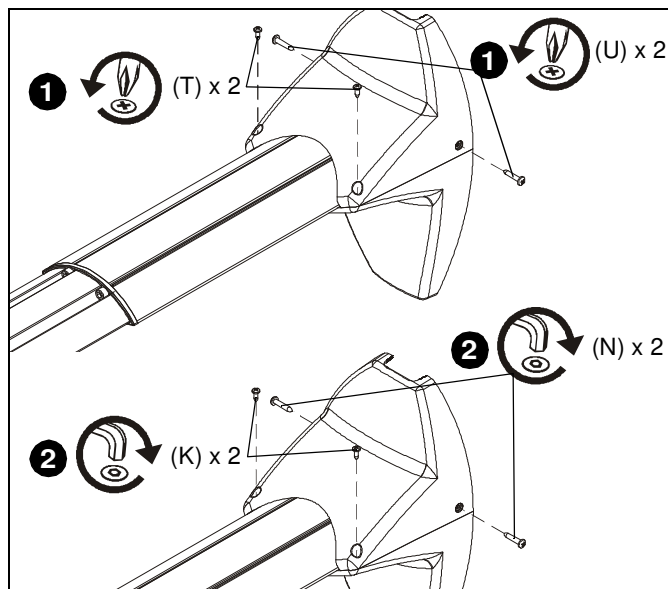


Figure 26

- Remove two bolts holding stop bracket in place on underside of short throw projector mount. (See Figure 27)

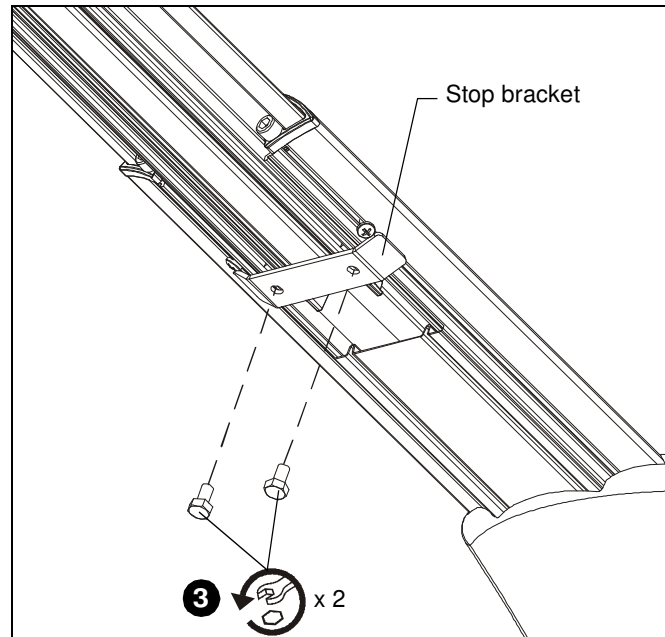


Figure 27

- Install two 1/4-20 x 1/2" button head security screws (L) through holes in stop bracket and into holes in sliding nuts. (See Figure 28)

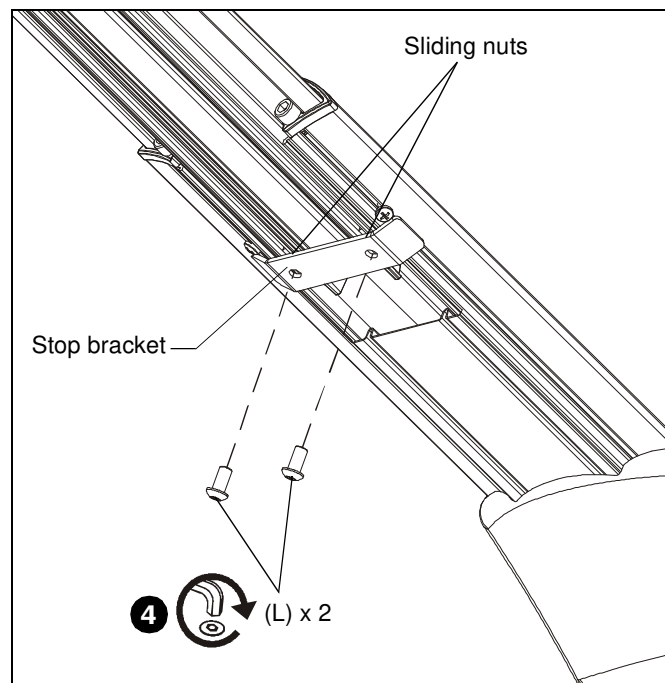
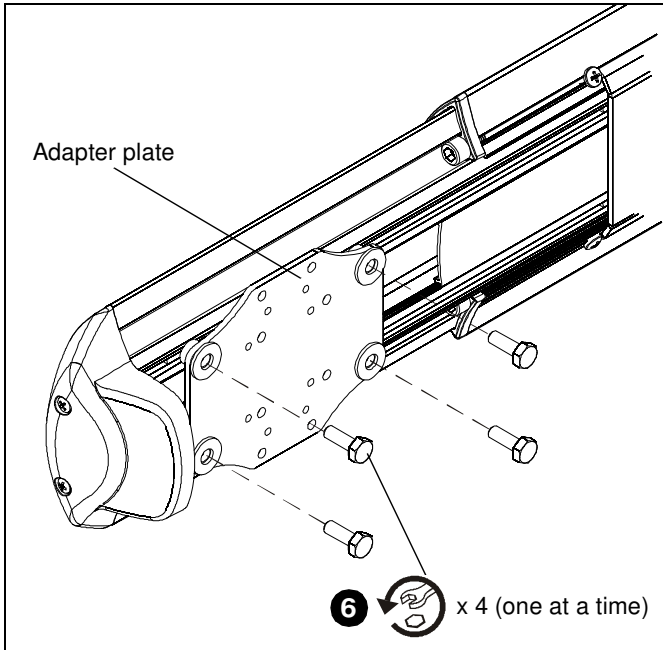


Figure 28

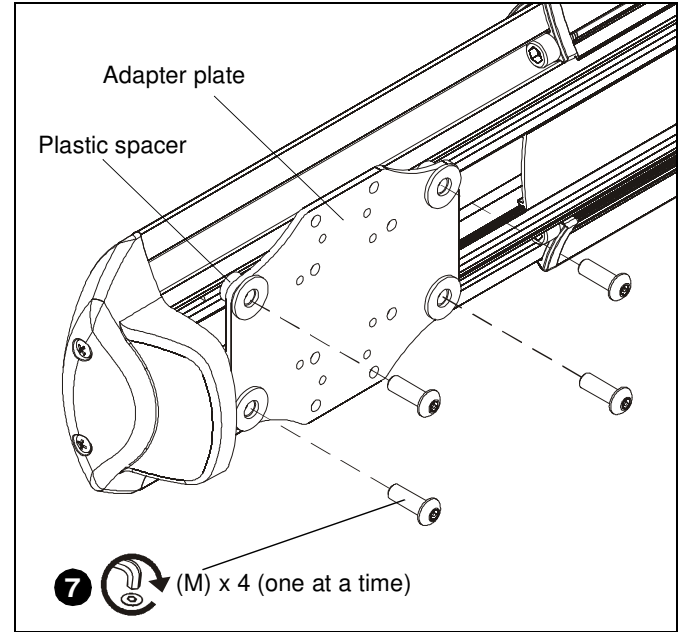
5. **(Optional)** Remove projector from WM1XXS according to projector interface instructions.

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

6. Remove one of four bolts from adapter plate. (See Figure 29)



**Figure 29**



**Figure 30**

7. Install one 1/4-20 x 3/4" button head security screw (M) into hole vacated by removing bolt in Step 6 and into plastic spacer. (See Figure 30)
8. Repeat Steps 6-7 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!

9. Reinstall projector according to interface instructions.





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<b>USA/International</b>	<b>A</b> 8401 Eagle Creek Parkway, Savage, MN 55378 <b>P</b> 800.582.6480 / 952.894.6280 <b>F</b> 877.894.6918 / 952.894.6918
<b>Europe</b>	<b>A</b> Fellenoord 130 5611 ZB EINDHOVEN, The Netherlands <b>P</b> +31 (0)40 2668620 <b>F</b> +31 (0)40 2668615
<b>Asia Pacific</b>	<b>A</b> Office No. 1 on 12/F, Shatin Galleria 18-24 Shan Mei Street Fotan, Shatin, Hong Kong <b>P</b> 852 2145 4099 <b>F</b> 852 2145 4477

