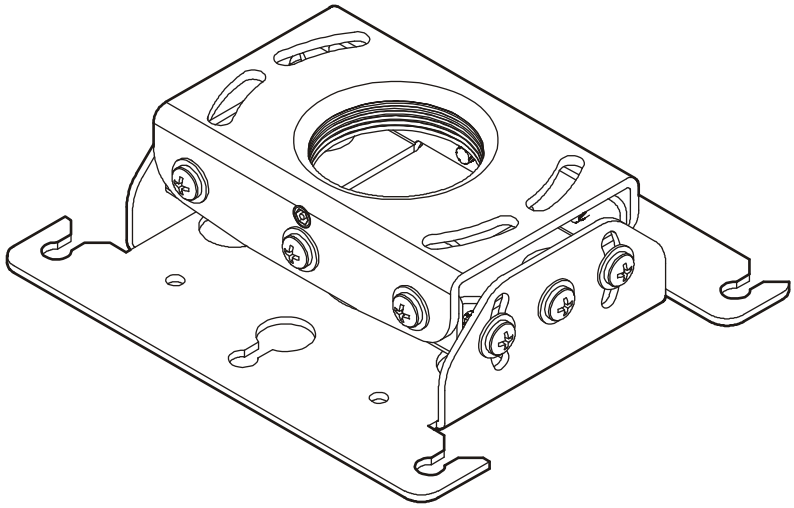
INSTALLATION INSTRUCTIONS



Projector Mount

CHIEF
Our Mounts. **Your Vision.**

RPA Series

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.

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 RPA does not exceed 50 lbs (22.7 kg).

- The weight capacity of the RPA may be LIMITED to the lowest weight capacity of any other components located between the RPA and the supporting structure!

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.

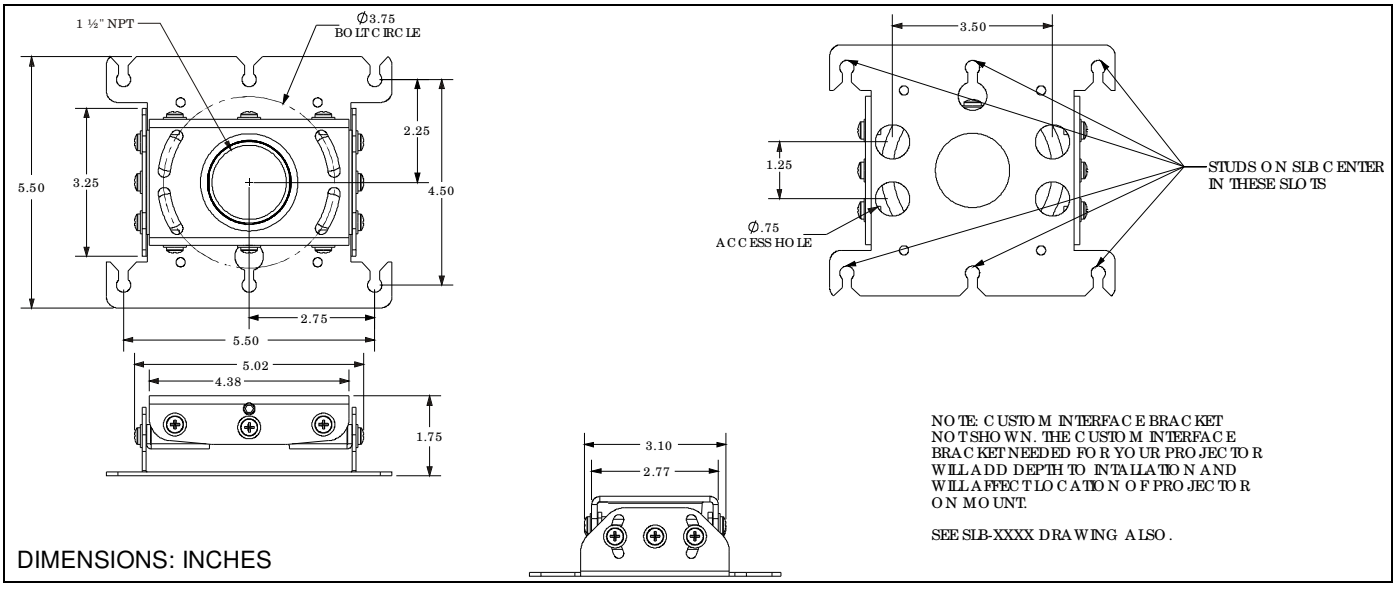
IMPORTANT ! : The RPA mounts are designed to be:

- mounted to a 1-1/2" NPT or NPSM following ANSI/ ASME B1.20.1 (Schedule 40, 0.154" minimum thickness steel or aluminum - ASTM B221) threaded extension column (not included); or
- mounted to a double 2" x 4" wood joist with a maximum drywall covering of 5/8"; or
- suspended from four 1/4-20 Grade ASTM A307 or better threaded rods (not included) which are secured to unistrut by 1/4-20 Grade 2 or better channel nuts (not included), or to angle or channel assembly overhead structural members (trusses or I-beams) by 1/4-20 Grade 2 or better jam nuts (not included).

NOTE: RPA Series may be used with Listed Chief models WM110S, WM120S, WM130S, WM210S, WM220S, WM230S, WM240S, WM210SI, WM220SI, WM230SI, WM240SI, CMA151, and LSB100 (not included).

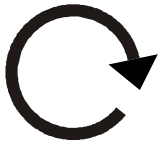
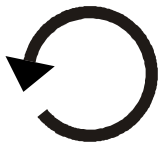
--SAVE THESE INSTRUCTIONS--

DIMENSIONS

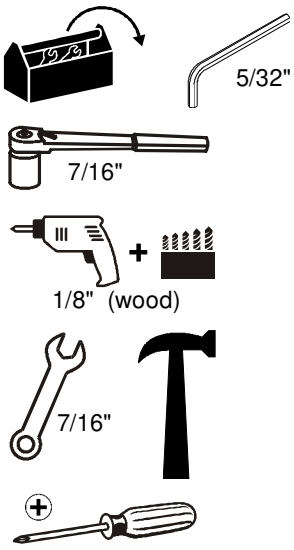


DIMENSIONS: INCHES

LEGEND

	Tighten Fastener Apretar elemento de fijación Befestigungsteil festziehen Apertar fixador Serrare il fissaggio Bevestiging vastdraaien Serrez les fixations
	Adjust Ajustar Einstellen Ajustar Regolare Afstellen Ajuster
	Loosen Fastener Aflojar elemento de fijación Befestigungsteil lösen Desapertar fixador Allentare il fissaggio Bevestiging losdraaien Desserrez les fixations
	Security Wrench Llave de seguridad Sicherheitsschlüssel Chave de segurança Chiave di sicurezza Veiligheidssleutel Clé de sécurité
	Phillips Screwdriver Destornillador Phillips Kreuzschlitzschraubendreher Chave de fendas Phillips Cacciavite a stella Kruiskopschroevendraaier Tournevis à pointe cruciforme
	Hex-Head Wrench Llave de cabeza hexagonal Sechskantschlüssel Chave de cabeça sextavada Chiave esagonale Zeskantsleutel Clé à tête hexagonale
	Open-Ended Wrench Llave de boca Gabelschlüssel Chave de bocas Chiave a punte aperte Steeksleutel Clé à fourche
	Socket Wrench Clé à douilles Steckschlüssel Chave de caixa Chiave a brugola Dopsleutel Clé à douilles

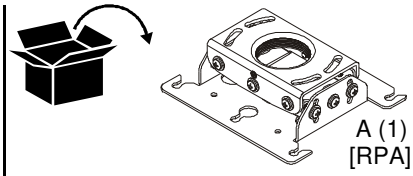
TOOLS REQUIRED FOR INSTALLATION / PARTS



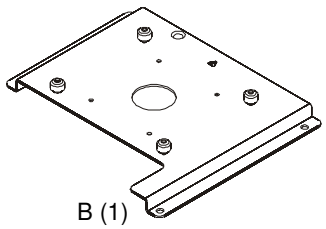
Hardware required - not included

(dependent on installation method)

1. **Install to threaded extension column**
   - 1-1/2" NPT or NPSM following ANSI/ASME B1.20.1 (Schedule 40, 0.154" minimum thickness steel or aluminum - ASTM B221) threaded extension column (not included)
2. **Install to wood ceiling joists (Qty. of 4 each)**
   - 1/4" x 2" (minimum length) Grade 2 lag bolts
   - 1/4" Grade 2 nuts
   - 1/4" Grade 2 washers
3. **Install to threaded rod**
   - 1/4-20 steel threaded rods (Qty. 4)
   - 1/4-20 Grade 2 channel nuts (Qty. 4)
   - 1/4-20 Grade 2 jam nuts (Qty. 8)
   - 1/4" Grade 2 washers (Qty. 8)



A (1)
[RPA]



B (1)
[Example of SLB bracket]

PREPARATION

Locate Mounting Site

WARNING: IMPROPER INSTALLATION MAY LEAD TO PROJECTOR MOUNT FALLING CAUSING SEVERE PERSONAL INJURY OR DAMAGE TO EQUIPMENT! It is the installers responsibility to make certain the structure to which the projector mount is being mounted is capable of supporting five times the weight of the projector mount and all attached equipment. Reinforce the structure as required before installing the projector mount.

1. Determine required position of the RPA projector mount.
2. Determine required distance of the projector mount from the screen using the lens-to-screen distance information.

NOTE: Proceed to **Installing to 1-1/2" Threaded Extension Column**, **Installing to Wood Framework (Joists)**, or **Installing to Threaded Rod** section, as appropriate.

INSTALLATION

Installing to 1-1/2" Threaded Extension Column

1. Install 1-1/2" NPT or NPSM following ANSI/ASME B1.20.1 (Schedule 40, 0.154" minimum thickness steel or aluminum - ASTM B221) threaded extension column (not included) into threaded collar until tight, with a minimum of four threads engaged.
2. Thread RPA projector mount (A) onto the threaded extension column (not included) until hand tight, with a minimum of four threads engaged.
3. Turn RPA clockwise or counter-clockwise until front of mount is facing target.

IMPORTANT ! : When RPA is properly positioned, the set screw access hole should be pointing directly at target, or 180° AWAY from target.

4. Secure RPA to pipe by turning set screw until tight. (See Figure 1)

CAUTION: DO NOT OVERTIGHTEN! Over tightening of set screw can damage threads on pipe.

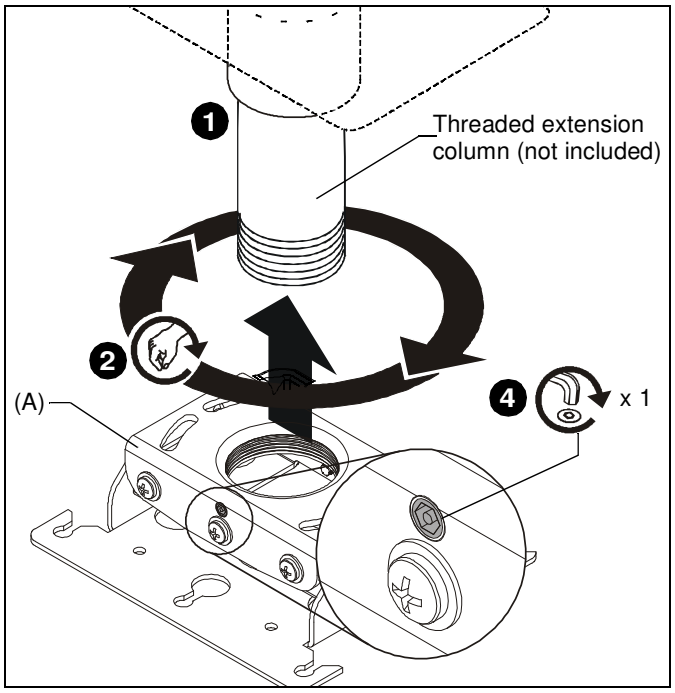


Figure 1

5. Proceed to **Installing Projector with Interface Bracket** section.

Installing to Wood Framework (Joists)

1. Using the RPA as a guide, mark four mounting hole locations. (See Figure 2)
2. Drill four 1/8" x 1-1/2" deep (minimum depth) pilot holes. (See Figure 2)

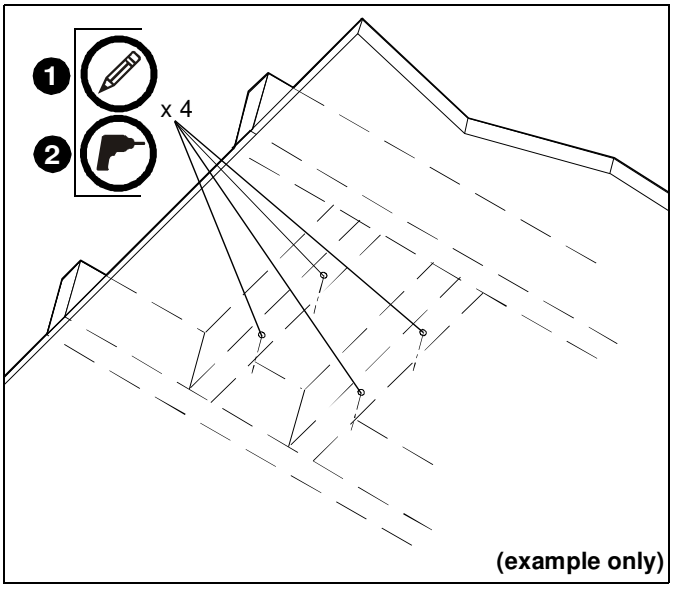


Figure 2

3. Align four mounting holes in RPA with four pilot holes.

IMPORTANT ! : When RPA is properly positioned, the set screw access hole should be pointing directly at target, or 180° AWAY from target.

4. Secure RPA to structure using four 1/4" x 2" minimum length lag bolts (not included) and four 1/4" flat washers (not included). (See Figure 3)

NOTE: If the wood framework structure allows, the hardware may be installed from above the RPA projector mount.

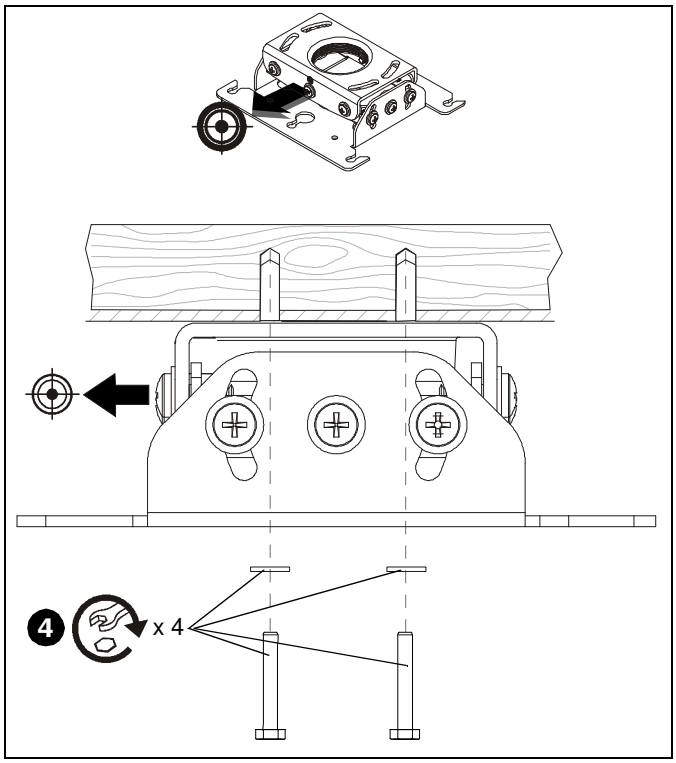


Figure 3

5. Proceed to **Installing Projector with Interface Bracket** section.

Installing to Threaded Rod

NOTE: The RPA projector mount may be suspended from four 1/4-20 steel threaded rods (not included) which are secured to unistrut by 1/4-20 Grade 2 or better channel nuts (not included), or to angle or channel assembly overhead structural members (trusses or I-beams) by 1/4-20 Grade 2 or better jam nuts (not included). Threaded rods must have 16 threads per square inch.

1. Secure one end of each of the four threaded rods (not included) to the structural member.
2. Install one 1/4-20 jam nut (not included) and one 1/4" washer (not included) onto each threaded rod.
3. Install RPA onto threaded rods, inserting the rods into the four slots on top of the RPA.

NOTE: Hole in the RPA allows socket wrench access without unit disassembly.

4. Secure the threaded rods to the RPA with one 1/4-20 jam nut (not included) and one 1/4" washer (not included) on each threaded rod. (See Figure 4)

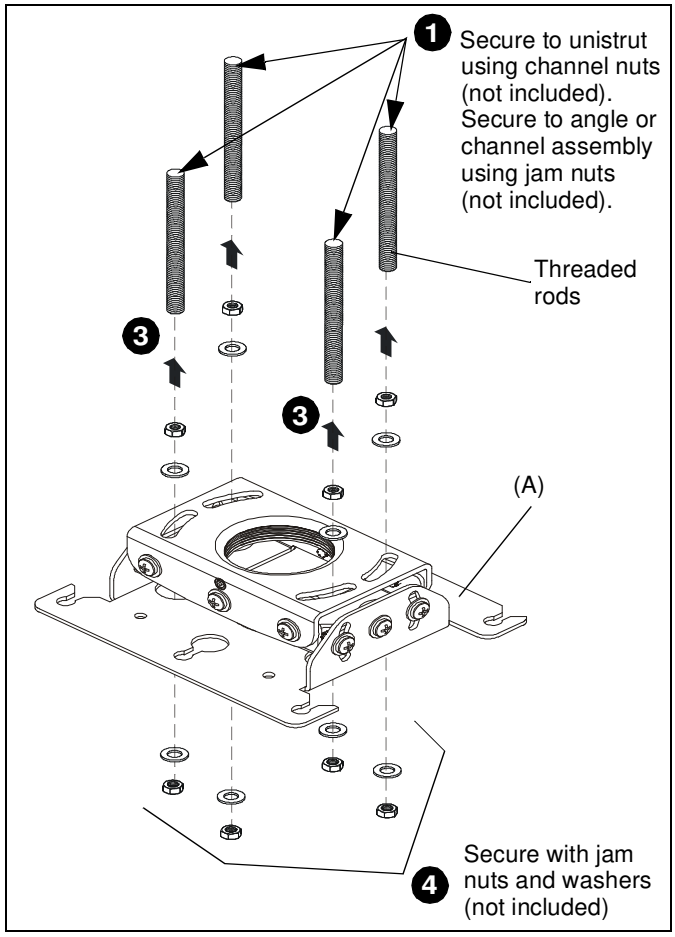


Figure 4

5. Proceed to **Installing Projector with Interface Bracket** section.

PROJECTOR INSTALLATION

IMPORTANT ! : Model RPA uses optional Chief "SLB" Series interface brackets. See **Parts** drawing.

1. Attach projector to interface bracket (B) using installation instructions and hardware included with the interface bracket.

NOTE: Security screws can be substituted when mounting interface bracket to projector by using the hardware and installation instructions in the All-Points Security Kit (included with interface bracket).

Installing Projector with Interface Bracket

1. Orient projector with interface bracket.
2. Loosen (but do not remove) thumb nuts on the interface bracket. (See Figure 5)
3. Raise projector with attached interface bracket to RPA projector mount (A). (See Figure 5)

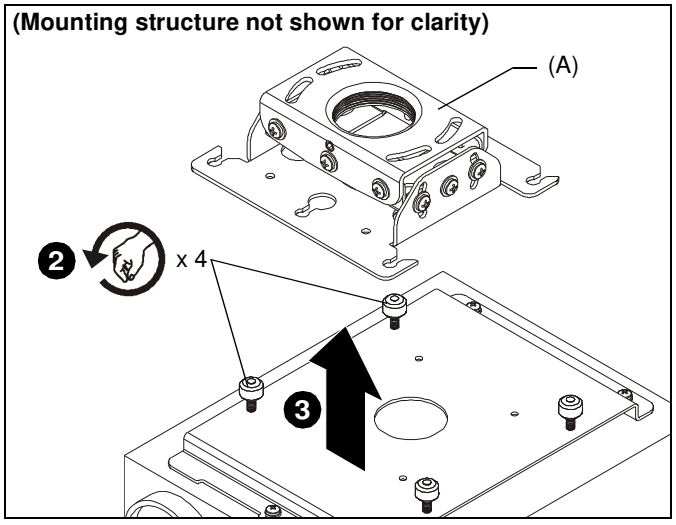


Figure 5

4. Align the thumb nuts on the interface bracket with the locating slots on the RPA projector mount. (See Figure 6)
5. Slide the interface bracket with attached projector to the limit of the locating slots. (See Figure 6)

WARNING: IMPROPER INSTALLATION CAN LEAD TO PROJECTOR FALLING RESULTING IN SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT. Make certain mounting slots in RPA projector mount base slide under thumb screws and that screws are seated in the back of locating slots.

6. Tighten thumb nuts to secure projector in place.

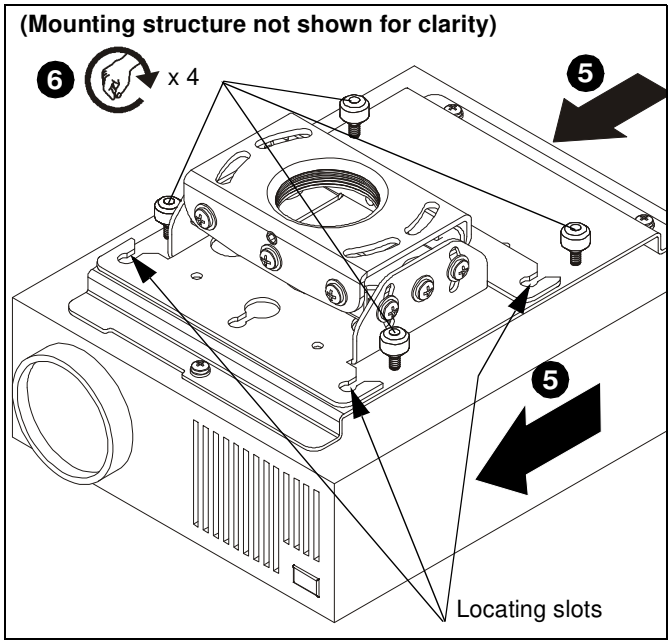


Figure 6

7. Route all cables as required.

ADJUSTMENTS

The RPA projector mount can be adjusted for pitch (vertical elevation), roll (horizontal tilt), and yaw (rotation).

WARNING: OVER-LOOSENING OR REMOVAL OF HARDWARE MAY RESULT IN PERSONAL INJURY OR SERIOUS DAMAGE TO EQUIPMENT! RPA projector mount and hardware is to be loosened only enough to allow for necessary movement.

Pitch (Vertical Elevation)

Adjust pitch using the two pitch adjustment screws **located on each end of the RPA**.

1. Loosen two pitch adjustment screws located on each end of the RPA.
2. Adjust projector angle to desired pitch. (See Figure 7)
3. Tighten two pitch adjustment screws located on each end of the RPA.

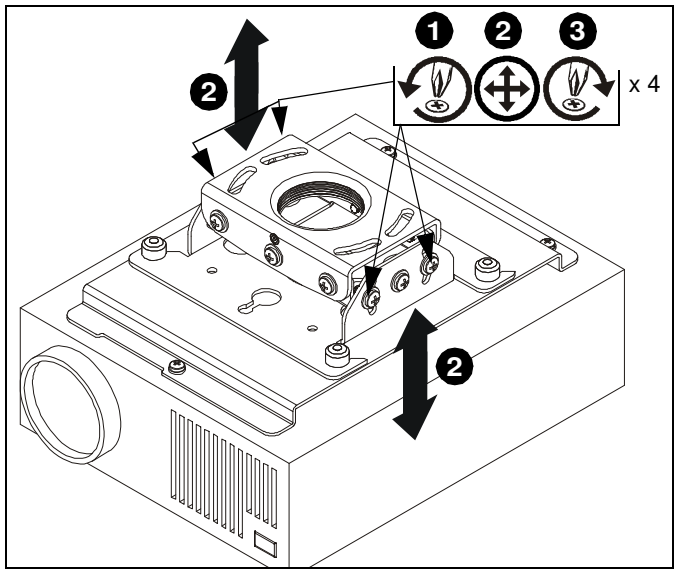


Figure 7

Roll (Horizontal Tilt)

Adjust roll using the four roll adjustment screws, **two on front and two on the back of the RPA.**

4. Loosen two roll adjustment screws on each side of the RPA.
5. Adjust projector to desired position. (See Figure 8)
6. Tighten two roll adjustment screws on each side of the RPA.

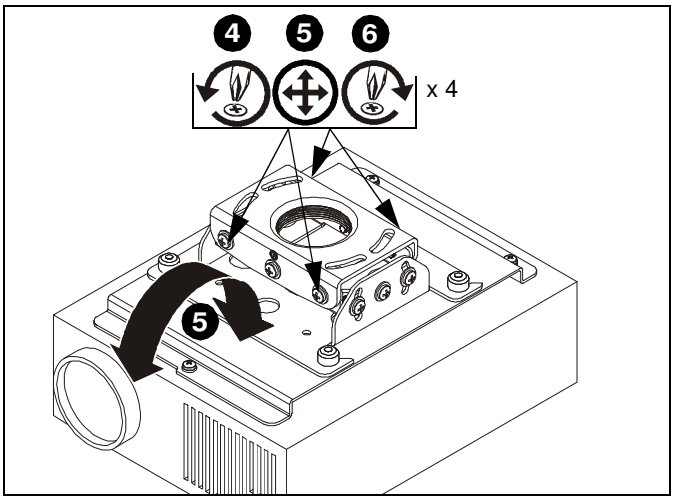


Figure 8

Yaw (Rotation)

Adjust yaw by threading or unthreading the RPA projector mount on the threaded extension column (not included).

7. Loosen set screw. (See Figure 9)

WARNING: IMPROPER ADJUSTMENT CAN LEAD TO PROJECTOR FALLING RESULTING IN SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT. Do NOT unthread RPA to the end of pipe threads!

8. Adjust projector by turning RPA projector mount on the extension column to the desired yaw position.
9. Tighten set screw.

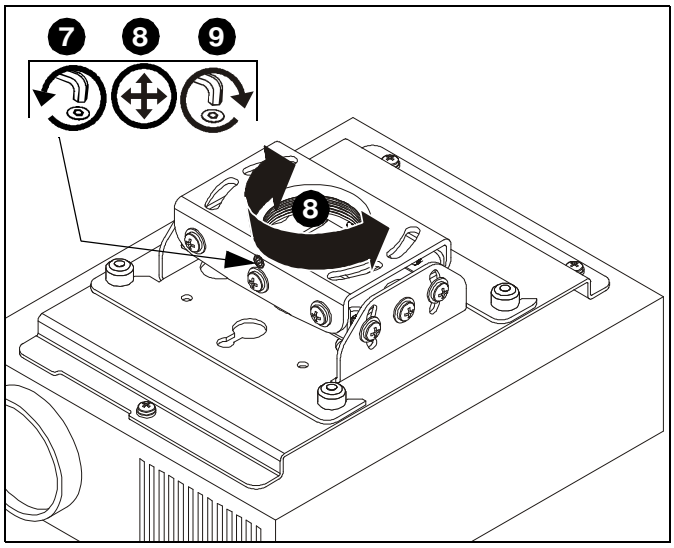


Figure 9



Chief, a products division of
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