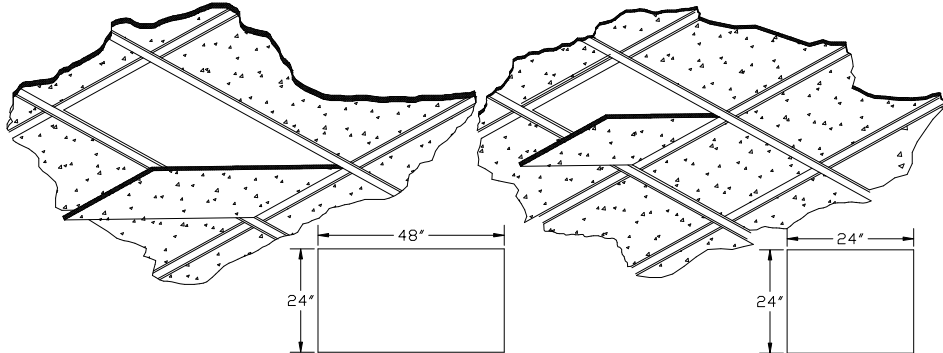


## Installation Instructions

### **PP-FCMA**

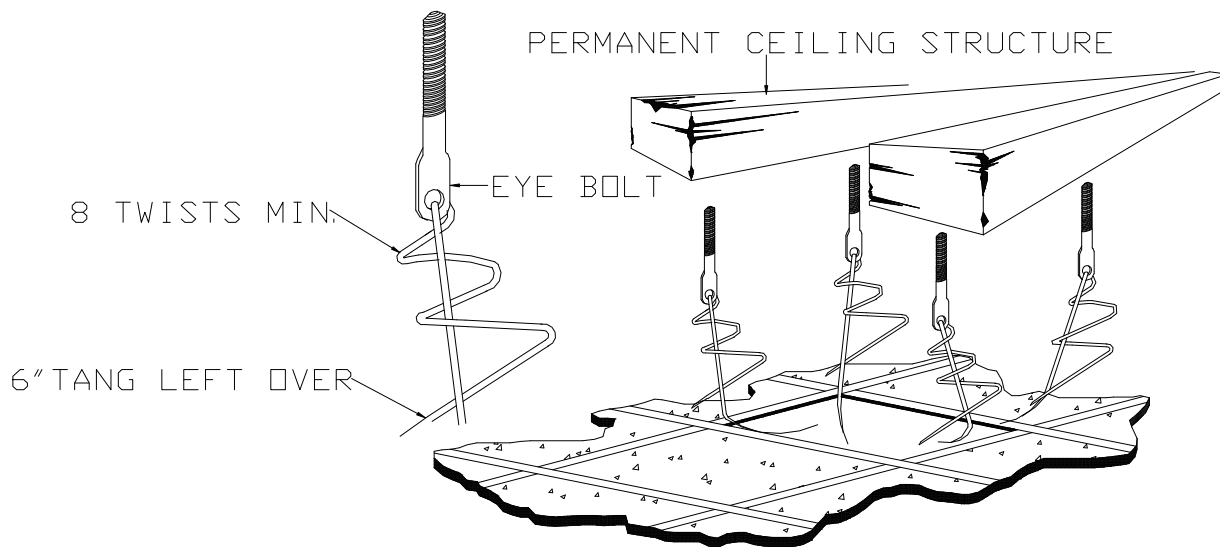
#### **Step 1**

Carefully remove a 24" (610mm) x 48" (1120mm) or two 24" (610mm) x 24" (610mm) suspended ceiling tiles.



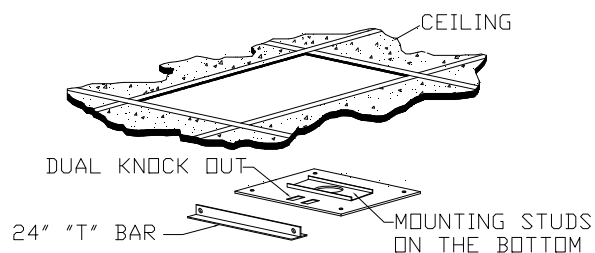
#### **Step 2**

Install the four (4) each 1/4"x3" eye bolts securely into the permanent ceiling structure with a minimum separation of 18"x18" square pattern between eye bolts. Cut four (4) required lengths of the safety suspension support wire supplied. Run one end of the wire through the eye bolt twist minimum eight (8) times and leave a 6" tang for each eye bolt.



#### **Step 3**

Install the PP-FCMA plate securely into the "T" bar frame work with the mounting studs face down and the dual knock out for electrical box located at the rear of the projector position. Install the additional 24" "T" bar main run cross lots if needed to support the adapter plate and replacement 24"x 24" ceiling tile.



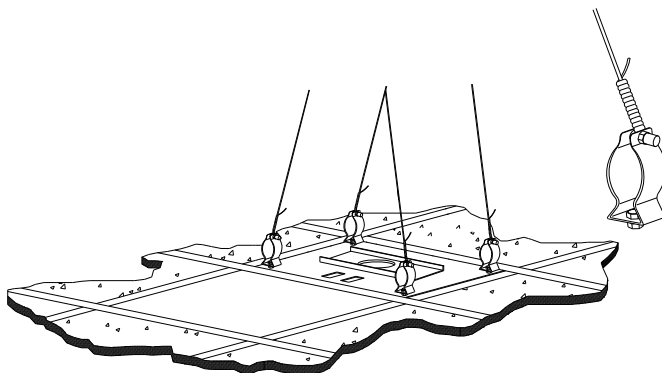
3130 E. Miraloma Avenue Anaheim, CA 92806

Ph (800) 368-9700 Fax (800) 832-4888

E-mail: [mounts@pmpl.com](mailto:mounts@pmpl.com) Web Site: [www.mounts.com](http://www.mounts.com)

#### **Step 4**

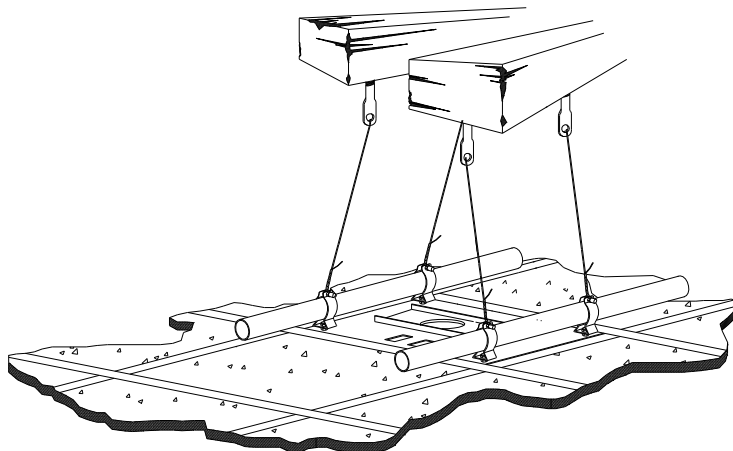
Install the four (4) each step bolt into the holes of the adapter plate and secure with the 1/4" kep nuts supplied. Install the four (4) each 3/4" EMT pipe "stand off" clamps over the step bolts and secure with the 1/4" kep nuts supplied.



#### **Step 5**

Run the secured wire under the 1/4" cross bolt off the clamp (remove as much slack as possible) and twist minimum eight (8) times and leave a 6" tang for each clamp.

**NOTE:** For additional security if desired run two (2) each 3/4" diameter EMT conduit pipe through the clamps and across over 2 sections of the "T" bar frame works on both sides of the clamps in either direction.

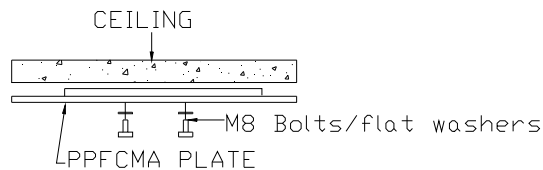
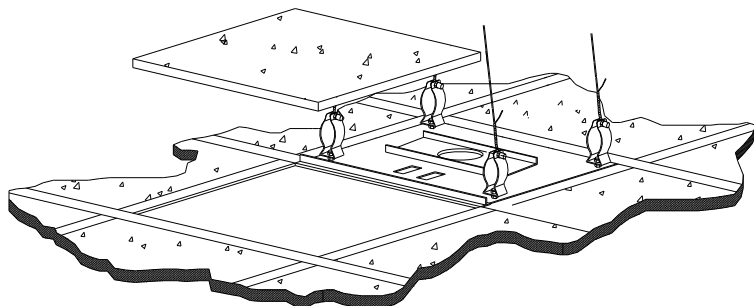


#### **Step 6**

Run the cables through the 1-1/2" center hole or into the conduit boxes attached to the knock out ports. Reinstall the tile. If it is a 24"x 48" cut it to fit the new 24"x 24" tile.

#### **Step 7**

Remove the four (4) M8 bolts and washers for base box installation. Re install Loose for adjustment. Tighten all hardware.



#### **WARNING!**

The ceiling should be capable of supporting a weight of at least five times the projector or monitor weight. If it cannot, the ceiling must be reinforced. Proper installation procedure by qualified personnel as outline. In the installation instructions must be adhered to. Failure to do so could result in serious personal injury. For further information or ordering assistance contact us at the address shown on the front of this page.

## INSTALLATION INSTRUCTIONS



**PBC-UMW (White)**



**PBC-UMS (Black)**

## PBC UNIVERSAL PROJECTOR MOUNT

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### **NORTH AMERICA**

3130 East Miraloma Avenue  
Anaheim, CA 92806 USA  
USA and Canada –  
Phone: 800-368-9700  
Fax: 800-832-4888

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Swallow House,  
Shilton Industrial Estate,  
Shilton, Coventry, England CV79JY  
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Fax: +44 (0) 2476 614710

Other Locations – Phone: (001)-714-632-7100; Fax: (001)-714-632-1044  
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9530-002-021-0A





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### Warning Statements



THE CEILING STRUCTURE MUST BE CAPABLE OF SUPPORTING 40 LBS. IF NOT, THE CEILING MUST BE REINFORCED. PROPER INSTALLATION PROCEDURE BY A QUALIFIED SERVICE TECHNICIAN, AS OUTLINED IN THE INSTALLATION INSTRUCTIONS, MUST BE ADHERED TO. FAILURE TO DO SO COULD RESULT IN SERIOUS PERSONAL INJURY, OR EVEN DEATH.



SAFETY MEASURES MUST BE PRACTICED AT ALL TIMES DURING THE INSTALLATION OF THIS PRODUCT. USE PROPER SAFETY GEAR AND TOOLS FOR THE INSTALLATION PROCEDURE TO PREVENT PERSONAL INJURY.



PRIOR TO THE INSTALLATION OF THIS PRODUCT, THE INSTALLATION INSTRUCTIONS SHOULD BE READ AND COMPLETELY UNDERSTOOD. THE INSTALLATION INSTRUCTIONS MUST BE READ TO PREVENT PERSONAL INJURY AND PROPERTY DAMAGE. KEEP THESE INSTALLATION INSTRUCTIONS IN AN EASILY ACCESSIBLE LOCATION FOR FUTURE REFERENCE.



Indicates that the power plug is to be disconnected from the power outlet.



Contact Premier Mounts with any questions.



Safety precautions must be taken at all times.



Warning and Caution statements.



A secure structure must support the weight, or load, of the projector. When mounting to a ceiling that contains wooden studs, dead center of the wooden stud must be confirmed prior to installation.



Do not install on a structure that is prone to vibration, movement or chance of impact. Failure to do so could result in damage to the projector and/or damage to the mounting surface.



Do not install near heater, fireplace, direct sunlight, air conditioning or any other source of direct heat energy. Failure to do so may result in damage to the projector and could increase the risk of fire.



At least two qualified people should perform the installation procedure. Injury and/or damage can result from dropping or mishandling the projector.



Recommended mounting surfaces: wooden studs and solid-flat concrete. If the mount is to be installed on any surface other than wooden studs, use suitable hardware (which is commercially available).

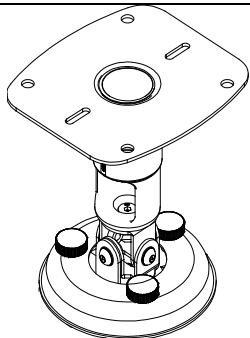
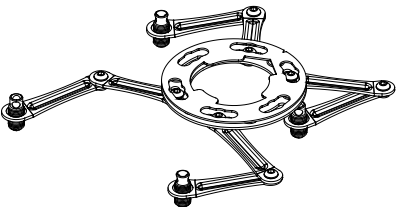
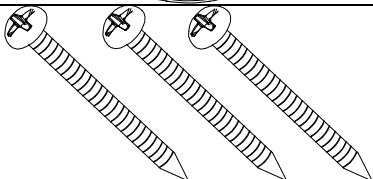
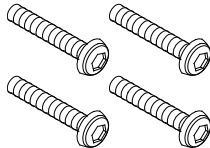
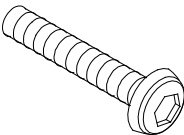
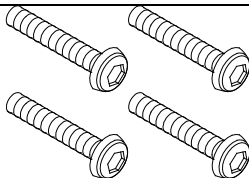
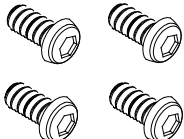
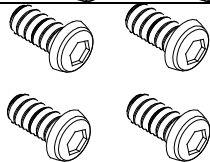
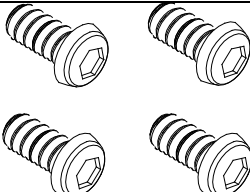



## Parts List



### Note

Make sure your Premier Mounts product has the following hardware and components before beginning installation. If there are parts missing and/or damaged, stop the installation and call Premier Mounts at (800) 368-9700.

Upper Assembly® (Qty 1)		Universal Mounting Bracket (Qty 1)	
#14 x 2" Wood Screws (Qty 3)		M2.5 x 10mm Security head screws (Qty 4)	
M6 x 25 Security head screw (Qty 1)		M3 x 12mm Security head screws (Qty 4)	
M4 x 12 Security head screws (Qty 4)		M5 x 12 Security head screws (Qty 4)	
M6 x 12 Security head screws (Qty 4)		Plastic barrel caps (Qty 4)	

## Installation Tools

Phillips Head Screw Driver  
Pencil  
Tape Measure  
Ladder

Portable Drill  
1/8" Drill Bit  
Stud Finder (Commercially Available)  
M5 Security Allen Wrench (Supplied)  
M3 Security Allen Wrench (Supplied)

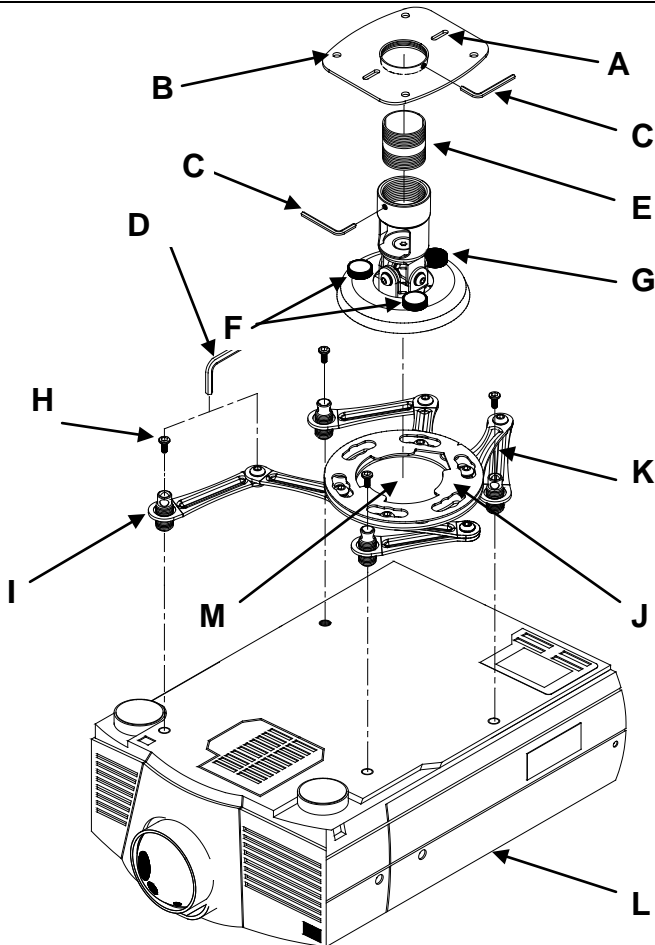
Soft Material/ Blanket  
Green Level (Supplied)



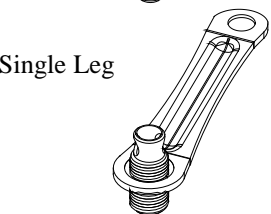
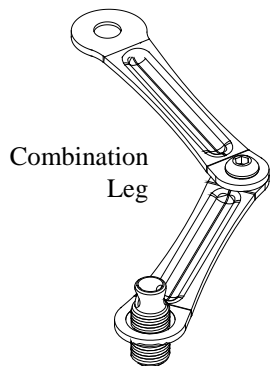
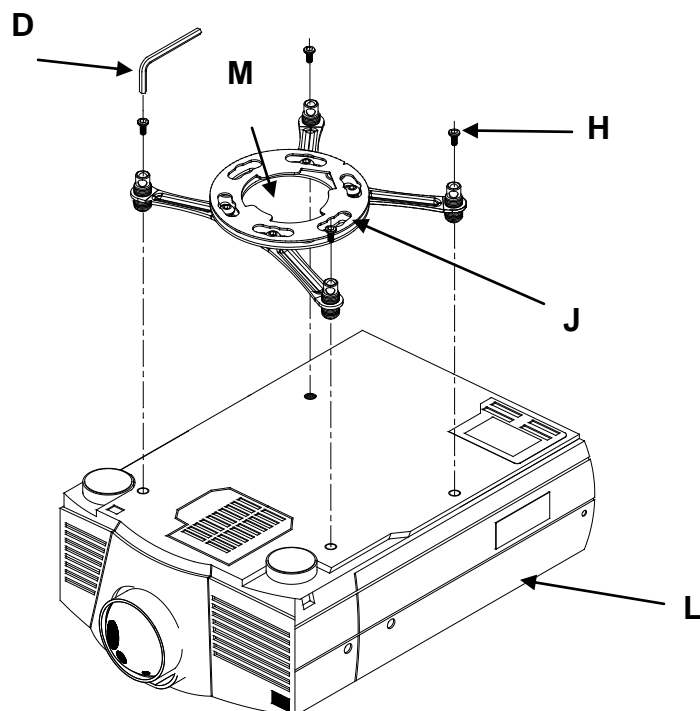
A	Single Wooden Stud Mounts
B	Solid Structure Mounting Points
C	M3 Security Allen Wrench
D	Security Allen Wrench
E	1.5" nipple (NTP)
F	Tension Knobs
G	Safety Knob
H	Security Screws
I	Leveling Screws
J	Universal Mounting bracket
K	Leg Assembly
L	Projector (not included)
M	Tri-Lock Opening

**NOTE:** The four (two-piece) leg assemblies can be used as single leg or any combination of single and dual legs together as shown in Options 1 and 2. The number of legs may vary depending on the number of mounting points found on the bottom of the projector.

### Option 1



### Option 2





## Features

Congratulations on your recent purchase of your PBC Universal Projector Mount. This mounting system is designed for projectors weighing 40lbs. (18.14 kg) or less. The mount is easy to install and is loaded with additional installation features built into the mount. These features allow you to optimize the projector's position to the screen for the best projector performance and picture quality.

- Can be mounted to the ceiling
- Tilt/Roll up to  $\pm 20^\circ$
- Rotates  $360^\circ$
- Positive locking in any set position
- Quick release system for easy projector mounting and removal
- Cables can be routed inside pipe
- Upper ceiling plate allows for single wooden stud installation and cable insertion through the ceiling plate for a cleaner appearance



## Projector Preparation



### **WARNING**

Proper installation procedure by qualified personnel as outlined in the installation instructions must be adhered to. Failure to do so could result in serious personal injury and possible damage to the projector.



### **Caution**

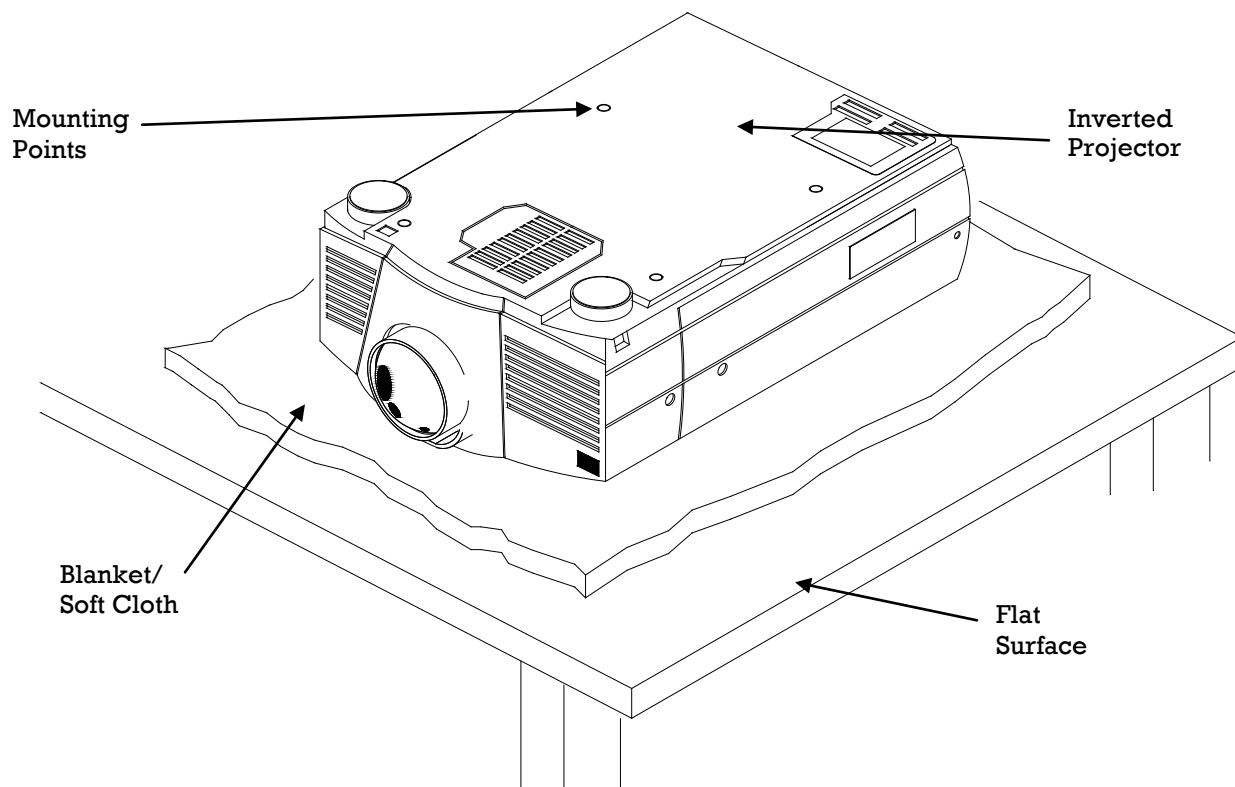
THE PROJECTOR IS FRAGILE. HANDLE WITH CARE AT ALL TIMES.



### **Note**

Review the projectors manufacture's operation manual and refer to the ceiling mounting section of the operator's manual. Here you will normally find important reference information regarding installation dimensions such as (distance from the screen to the lens of the projector, top of the lens placement to the top screen etc. Adherence to these recommendations during your installation will enhance the quality of your final image on the screen.

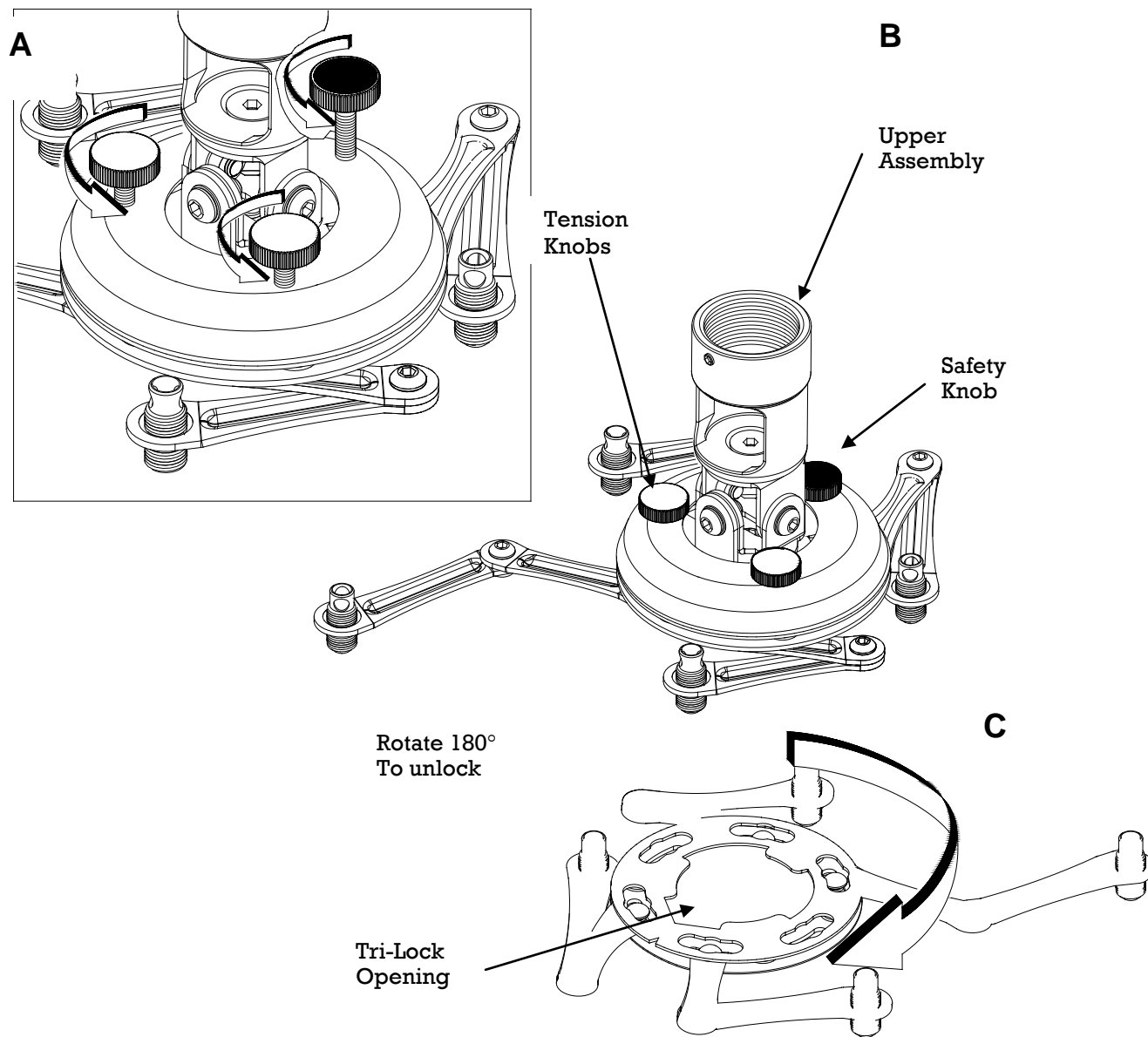
- Step 1. Carefully invert the projector and place it on a smooth, flat surface.
- Step 2. Identify the number of mounting points and screw thread size. Most projectors have either three or four mounting points and are M4, M5 or M6 in thread size (Figure 1).



**Figure 1. Projector Preparation**

- Step 3. Separate the upper assembly from the projector mounting bracket by slightly loosening the two tension knurl knobs to create free play between the bracket tri-lock assembly and the upper section tri-lock assembly points (Figure 2A and Figure 2B).
- Step 4. Loosen the security screw knurl knob far enough to allow the two parts to be rotated 180° apart and separate (Figure 2C).





**Figure 2. Mount Preparation**



## Bracket Installation



### **WARNING**

Only attach to the projector manufacturer's specified mounting points on the projector chassis with a minimum of three mounting legs. Please follow all safety instructions specified by the projector manufacturer as well as the safety instructions outlined in this manual.



### **Note**

The two-piece mounting legs are designed to allow for the positioning of each leg around projector air vents located on the base of the projector. Where applicable, each leg mount may be shortened by removing the locking screw. This will allow for a better bracket fit, overall.

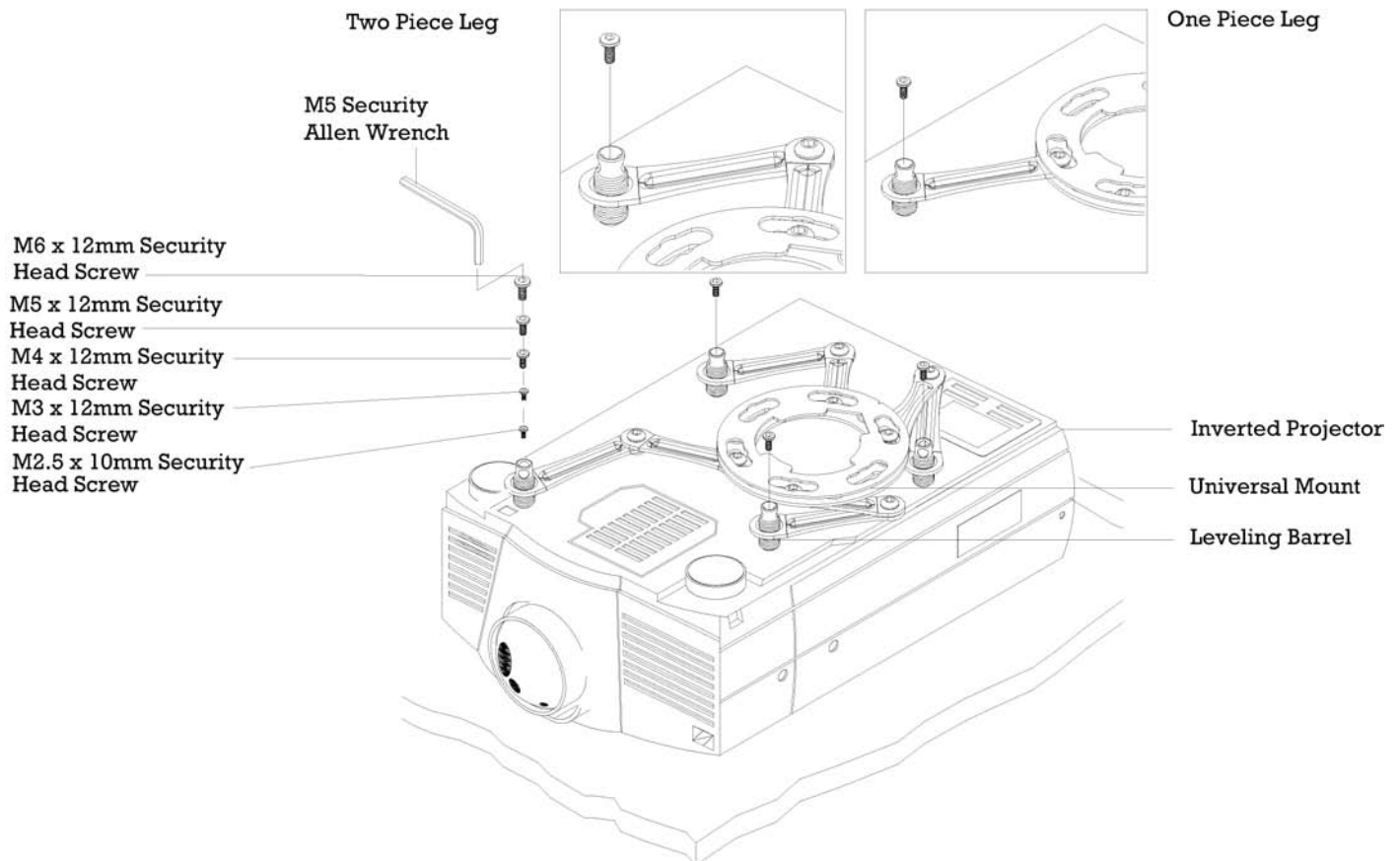


### **Note**

For easier installation, the mounting legs should be first mounted to the projector. Each leg should then be adjusted so that they can mount to the Universal Mount (Figure 3).

Step 1. Locate the mounting points on the bottom of the projector and use the appropriate number of mounting legs.

Step 2. Select the mounting hardware that the projector requires and loosely install the universal mount on the projector.





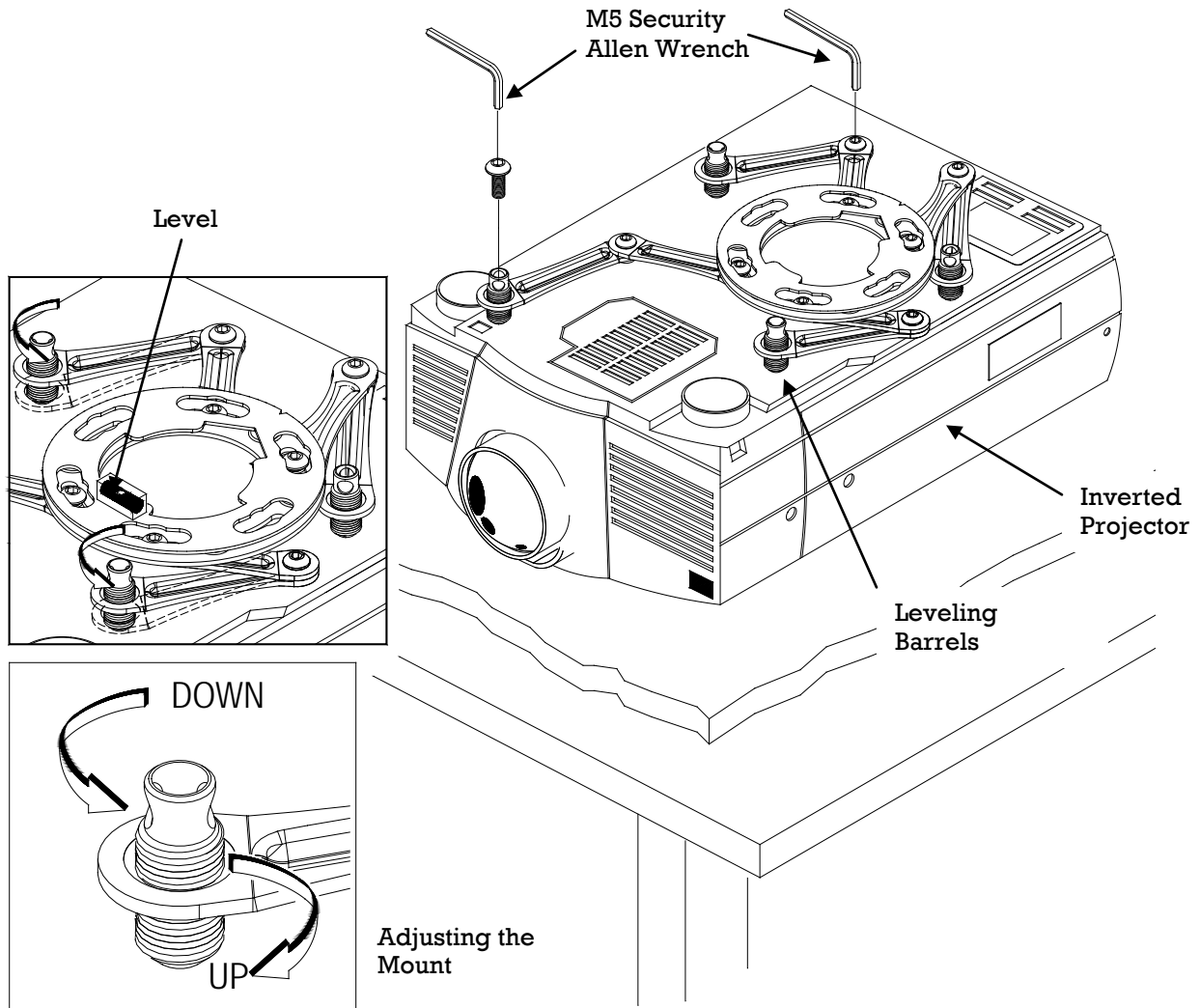
## Leveling the Mounting Bracket



### Caution

Secure but do not over tighten the mounting hardware. Failure to do so will result in damaging the threads in the projector.

- Step 1. Rotate the leveling barrels to level the mounting bracket.
- Step 2. Position the mounting bracket so that it avoids most, if not all, ventilation points (including lamp and filter access doors).
- Step 3. When the desired position is achieved, tighten the mounting screws to the projector and then tighten the security hex head leg screws with the M5 Security Allen Wrench (Figure 4).



**Figure 4.** Leveling the Mounting Bracket



## Securing the Upper Assembly Ceiling Plate

Review your projector's owner's manual to determine what distance is recommended from the front of the lens to the edge of the screen for best picture ratio.



### Note

However in most home theater and office ceiling mount installations this is not practical as the projector would be too low within the room. At a minimum you should at least locate the inverted projector's top of the lens point to a point centered horizontally on the screen and no higher than the top image edge of the screen).

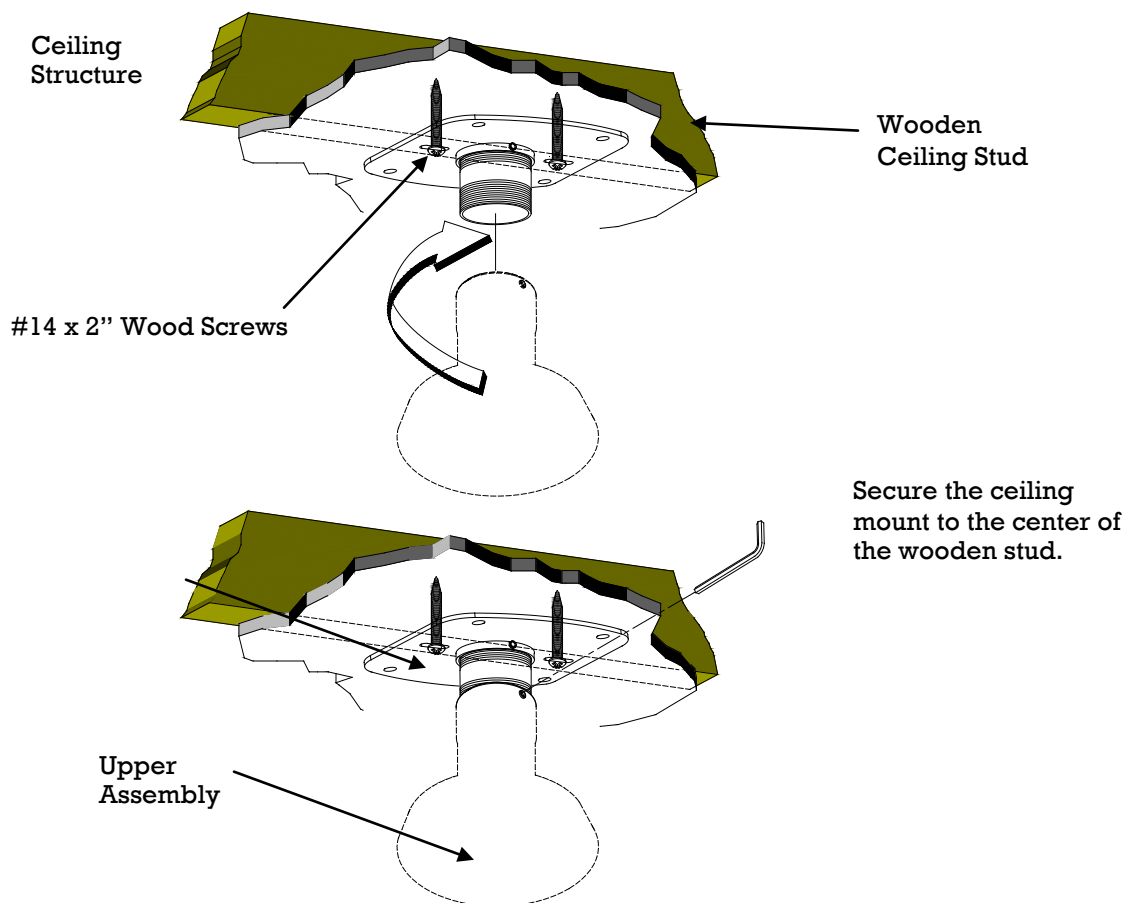
Most projector manufacturers prefer to have the center of the projector lens centered of the top of the screen when the projector is inverted for ceiling mounting. It is normally better to have the top edge of the lens as close to parallel with the top image edge of the screen as well. Before you mount your screen and projector, make sure the mounting location will safely support the weight of the projector.



### Note

Make sure to measure from the center of the mounting bracket to the front edge of the lens to determine the proper placement of the center of the upper assembly.

Step 1. Secure the ceiling assembly into a solid wood ceiling stud with the two (2) #14 x 2" wood screws (supplied) or with other (commercially available) hardware depending on your installation environment (Figure 5).



**Figure 5.** Securing the Upper Assembly Ceiling Plate

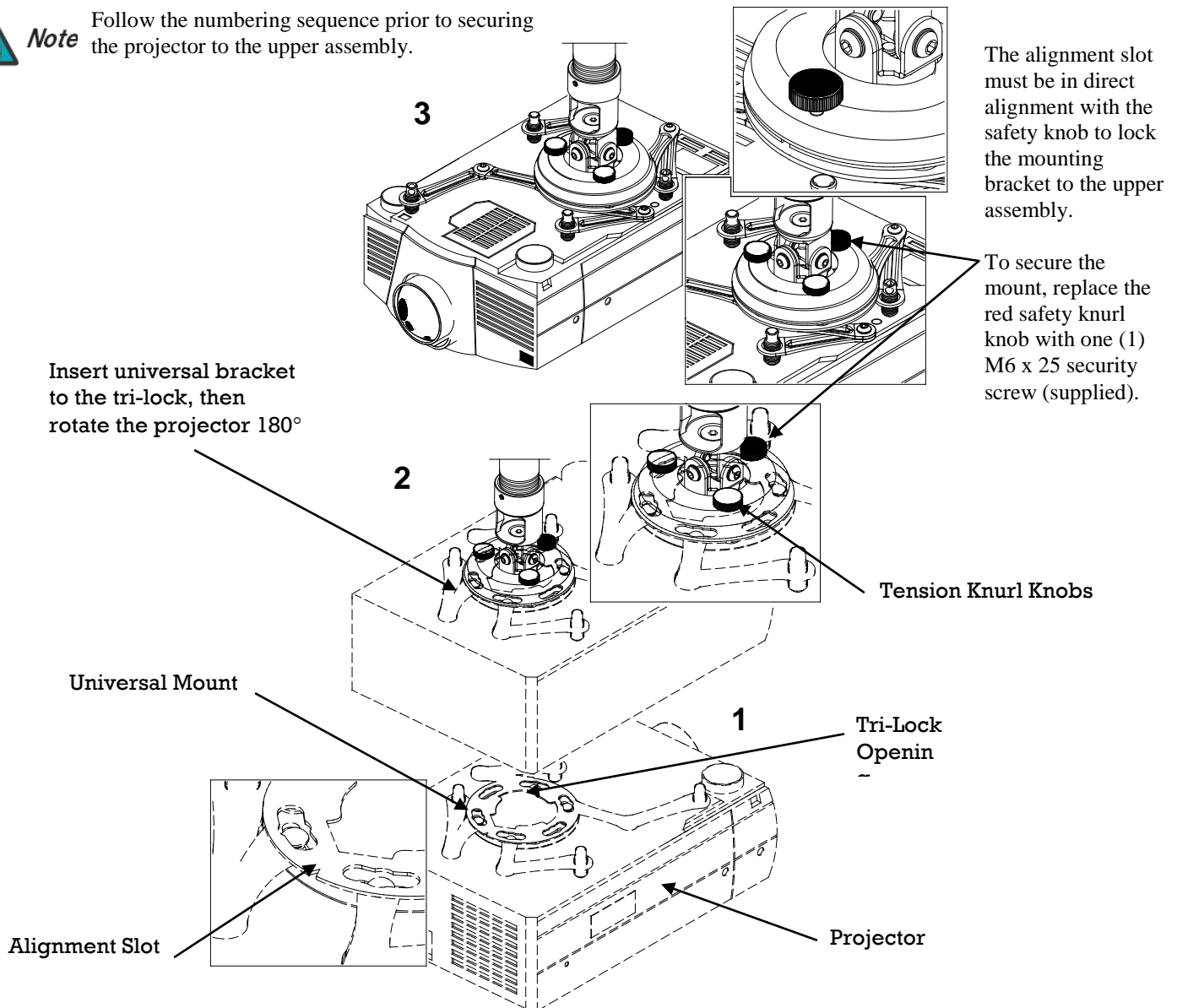


## Securing the Projector to the Upper Assembly

- Step 1. Make sure the three-knurl knobs are loosened to fully expose to the “tri-lock” mounting plate in the base of the upper assembly.
- Step 2. Carefully lift the projector and insert the mounting bracket mating special tri-lock cutout into the mating portion of the upper assembly.
- Step 3. Once inserted rotate the projector and mounting bracket 180° and secure the rear safety knob first to prevent further rotation of the bracket in the upper assembly.
- Step 4. Tighten the remaining two tension knurl knobs until the mount becomes rigid. The safety knob should line up with the alignment slot on the mounting bracket.



**Note** Follow the numbering sequence prior to securing the projector to the upper assembly.



**Figure 6. Low Profile Installation**



## Final Adjustments

Step 1. With the projector secured in the mount and power on and signal supplied to the projector you can now proceed with the final height, tilt, roll and yaw to optimize the projected image.

### A

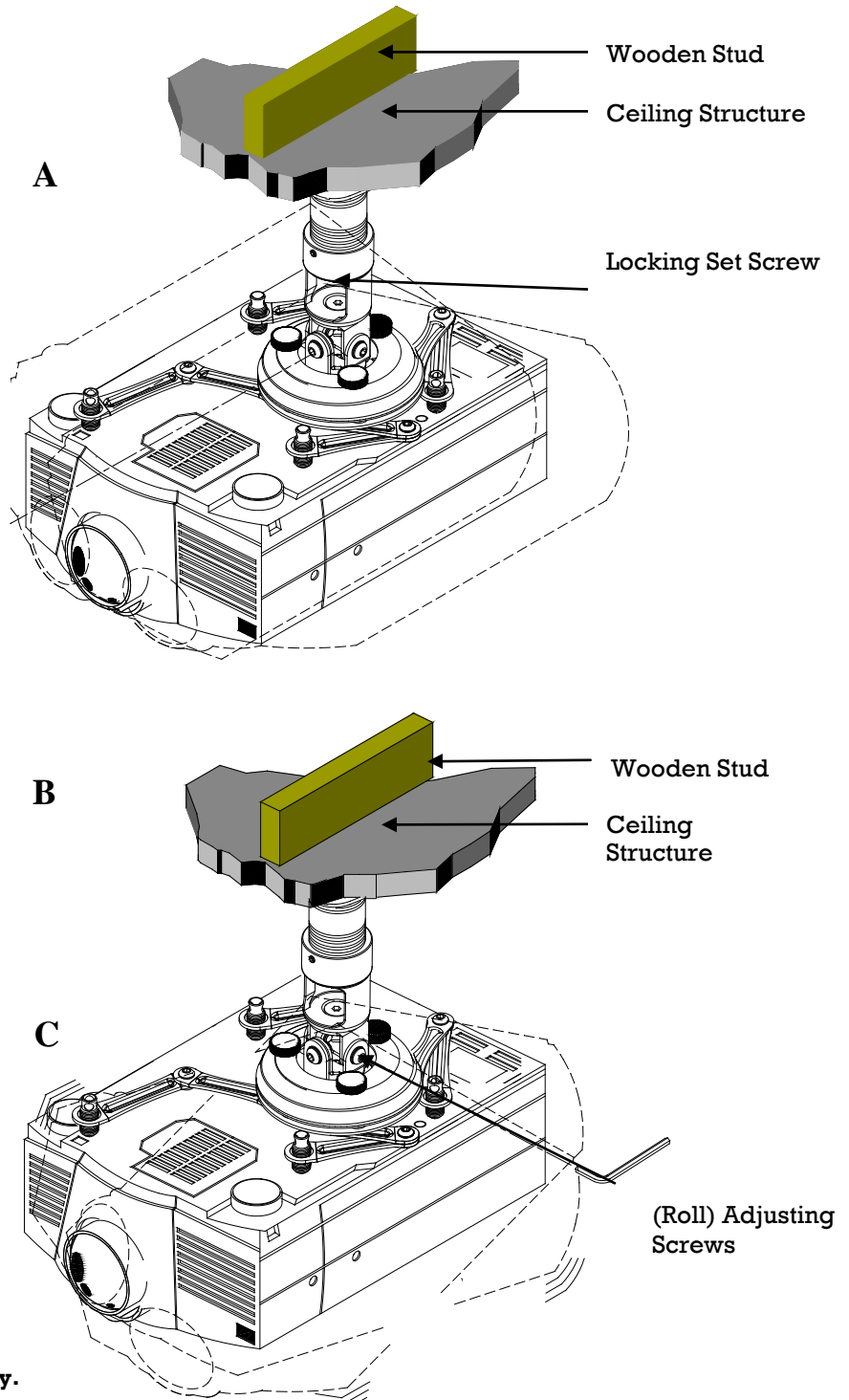
The height can be adjusted by rotating the PBC clockwise (higher) / counter-clockwise (lower). Once the height is achieved, tighten the locking set screw using the supplied Security Allen Wrench.

### B

To adjust the tilt angle of the projector, slightly loosen the side M8 screws and tilt to the desired angle and firmly tighten the two M8 adjustment screws.

### C

If roll adjustment is needed to square the images on the screen, slightly loosen the front and rear M8 screws and adjust to the desired angle. Then firmly tighten the two M8 adjustment screws.



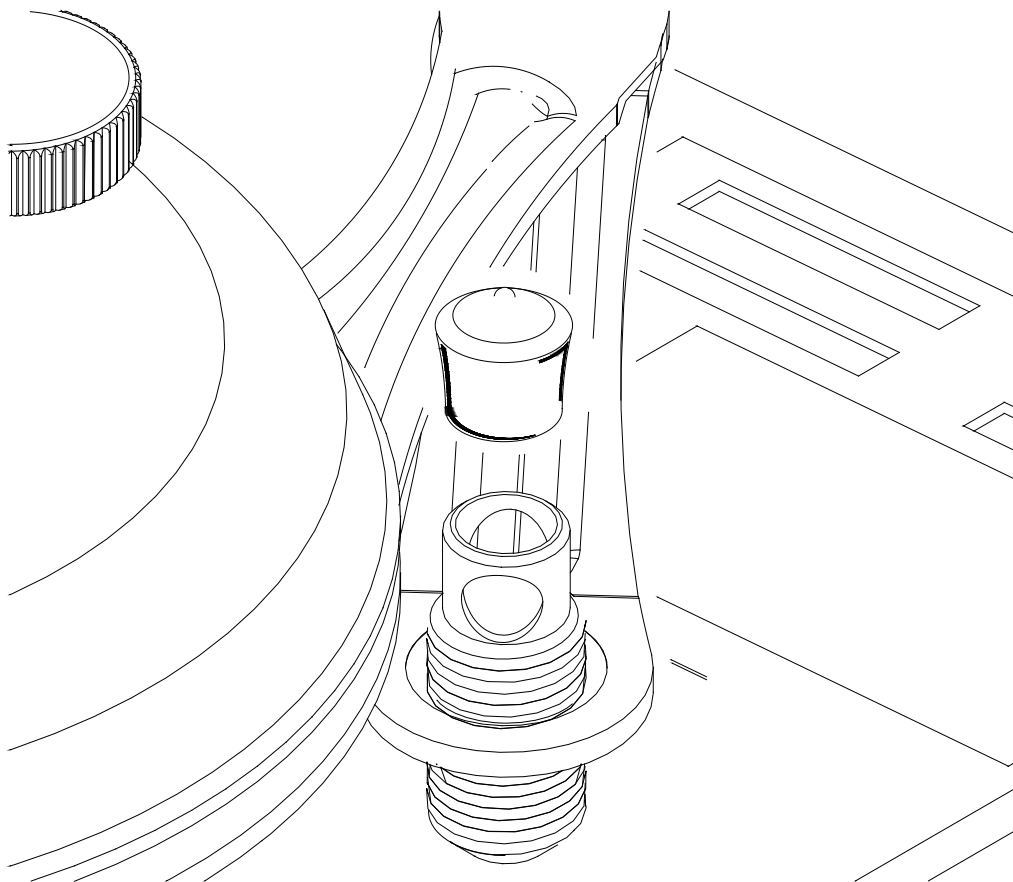
**Re-check the hardware for tightness and security.**

**Figure 7. Final Adjustments**



## Plastic Cap Installation

Step 1. Once all the final adjustments have been finished, install the plastic caps on the leveling barrels (Figure 8).



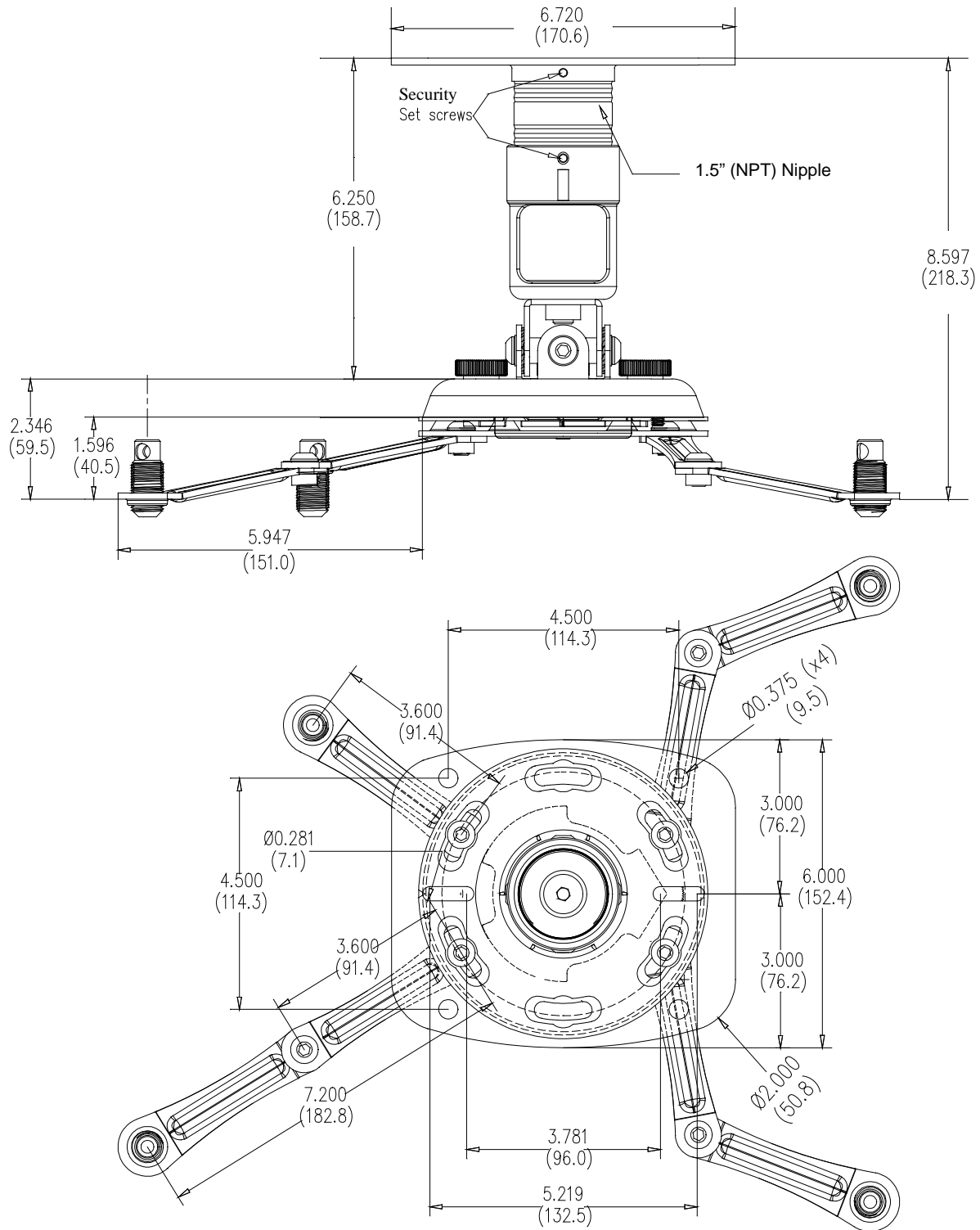
**Figure 8.** Plastic Cap Installation





## Technical Specifications

All measurements are in inches (mm)



**Figure 9. Technical Dimensions**





## Warranty

### PREMIER MOUNTS LIMITED LIFETIME WARRANTY

#### **What and Who is Covered by this Limited Warranty and for How Long**

Premier Mounts warrants this product to be free from defects in material and workmanship for the lifetime of the original owner of this product. The limited warranty is valid only for the original purchaser of the product.

#### **What Premier Mounts Will Do**

At the sole option of Premier Mounts, Premier Mounts will repair or replace any product or product part that is defective. If Premier Mounts chooses to replace a defective product or part, a replacement product or part will be shipped to you at no charge, but you must pay any labor costs.

#### **What is Not Covered; Limitations**

PREMIER MOUNTS DISCLAIMS ANY LIABILITY FOR DAMAGE TO MOUNTS, ADAPTERS, DISPLAYS, PROJECTORS, OTHER PROPERTY, OR PERSONAL INJURY RESULTING, IN WHOLE OR IN PART, FROM IMPROPER INSTALLATION, MODIFICATION, USE OR MISUSE OF ITS PRODUCTS.

PREMIER MOUNTS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. PREMIER MOUNTS IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO, INABILITY TO USE ITS PRODUCTS OR LABOR COSTS FOR REMOVING AND REPLACING DEFECTIVE PRODUCTS OR PARTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

#### **What Customers Must Do for Limited Warranty Service**

If you discover a problem that you think may be covered by the warranty you **MUST REPORT** it in writing to the address below within thirty (30) days. Proof of purchase (an original sales receipt) from the original consumer purchaser must accompany all warranty claims. Warranty claims must also include a description of the problem, the purchaser's name, address, and telephone number. General inquiries can be addressed to Premier Mounts Customer Service at 1-800-368-9700. Warranty claims will not be accepted over the phone or by fax.

Premier Mounts  
Attn: Warranty Claim  
3130 E. Miraloma Avenue  
Anaheim, CA 92806

#### **How State Law Applies**

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.