



Collimare®

WARNING

IGNORING THIS COULD COST YOU \$500

Collimare LED Power Requirements

The input power must be 24VDC or Isolated 24VAC.

To confirm that the AC power is isolated measure each leg of the AC input to ground.

You should read **10 - 24VAC** on each leg measured to ground:

Blue wire referenced to green/yellow stripe wire = **10 - 24VAC**

Brown wire referenced to green/yellow stripe wire = **10 - 24VAC**

Blue wire referenced to brown wire = **24VAC**

Note: green/yellow stripe wire must be connected to system chassis ground.

If you Read 0 VAC on either leg STOP!

You are about to damage the LED driver board!

FOR CPI CMP200 Installations:

Per CPI the recommended connection for the Collimare LED unit on a CMP200 generator is:

J11-1, DC ground and J11-2, 24VDC positive. The polarity to the Collimare does not matter.

13401 W 43rd DR
Unit # 7
Golden, CO 80403
P: 303.278.1496
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Service/Installation Bulletin

Potential for Damage to Collimare LED & Halogen Collimators

When Connected to a GROUNDED AC Supply as found on the CPI CMP200

It has come to the attention of Summit Technical Support that there have been a few cases of Collimare collimator damage due to connecting the collimator to a non-isolated AC circuit.

Please read the following quote from Collimare (emphasis added):

"The AC power input to the new LED collimator must be an isolated supply. This is defined as a power requirement in the LED model manual (same as our standard unit) and more importantly a requirement to meet all of the latest safety and EMC standards.

The AC power supplied by the CPI generators is not an isolated supply (i.e.

CPI model CMP200, J-11 - 6 is 24VAC and J11-5 is ground).

- Connecting the Collimare LED unit to a grounded AC input source will cause damage to the LED driver board and blow the CPI supply fuse.
- **Per CPI the recommended connection for the Collimare LED unit on a CMP200 generator is:**
 - **J11-1, DC ground and J11-2, 24VDC positive. The polarity to the Collimare LED unit does not matter."**
- ◆ **If you are aware of any pairings of the CMP and Collimare in your service area or of any future installations, please review how they have been, or will be, interconnected.**

The following generators are known to Summit to have isolated AC collimator supplies:

All Summit - built HF Models: L300, L500, L550, 03900, 03901, 0210, 02968 (all dash numbers) - TB3-10 to TB3-11 for Medical/Chiro models with TB3-15 as a separate ground or TB5-12 to TB5-13 for most vet models with TB5-11 as a separate ground.

All Summit - built 50 and 60Hz Line-phase generators including models: A300, A360, B300, B360, F280, K240, 01200, 01210 (all dash #'s) - **Terminals C1 to C2**
and vet models K200, W300, W400 built into table models S304 and S305 (all dash #'s) - also C1 to C2

Post 2005 Bennett and all HCMI Models HF300 & HF30SE – Dinrail terminals 1 to 2

Poskom: Models PXR-B and PXR-TA - TB502 terminal 7(24VAC) to terminal 9 (0 VAC)

Should you need one, Summit manufactures isolated AC/DC & DC only power supplies.



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CML-150 & CML-125 WIRING SCHEDULE

LED Board J1	Wire Color at Collimator	Function	Molex 9 Pin Connector	Wire Color for 25' Cable	Function
Pin 1	Blue	24V AC*/DC Power	Pin 1	Black	24V AC*/DC Power
Pin 2	Brown	0V AC*/DC Power	Pin 2	White	0V AC*/DC Power
Pin 3	White	Lamp Button	Pin 3	N/A	N/A
Pin 4	White	Lamp Button	Pin 4	N/A	N/A
Pin 5	Orange	Generator Prep	Pin 5	N/A	Generator Prep
Pin 6	Yellow	Generator Prep	Pin 6	N/A	Generator Prep
Pin 7	Black	Remote Switch	Pin 7	Brown	CSW2 Remote Switch
Pin 8	Red	Remote Switch	Pin 8	Red	CSW1 Remote Switch
Chassis Ground Lug	Green	Ground	Pin 9	Green	Ground

Remote Switch Function: Light Field and Lasers come on and self-timeout after the default time or they can be turned off immediately by pressing the Lamp Button. Use a normally open set of isolated contacts.

Generator Prep Function: Light Field and Lasers are on during generator prep mode. Use a normally open set of isolated contacts.

* 24VAC & 0VAC must be an isolated AC supply or damage will occur to the unit. Always measure the incoming 24VAC and 0VAC to ground for confirmation. Both the 24VAC and 0VAC should measure a voltage above ground. If you are unsure contact Collimare for assistance.

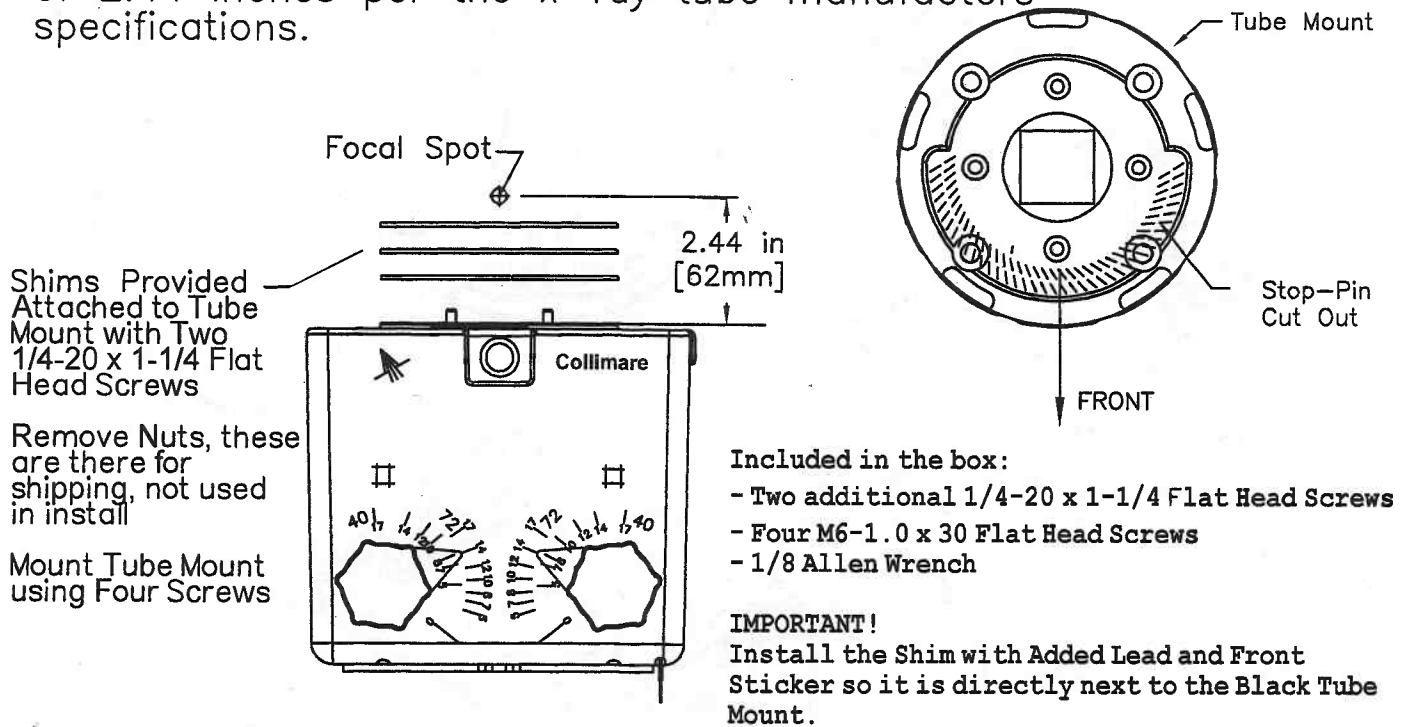
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Mounting Instructions

Step 1:

Back the mounting lug adjustment screws all the way out to remove the tube mount assembly from the collimator. Install the tube mount assembly on the x-ray tube with the stop-pin cutout to the front as shown in diagram at right.

Use the tube mount shims provided in the manual to install the tube mount assembly to a focal spot distance of 2.44 inches per the x-ray tube manufacturers specifications.

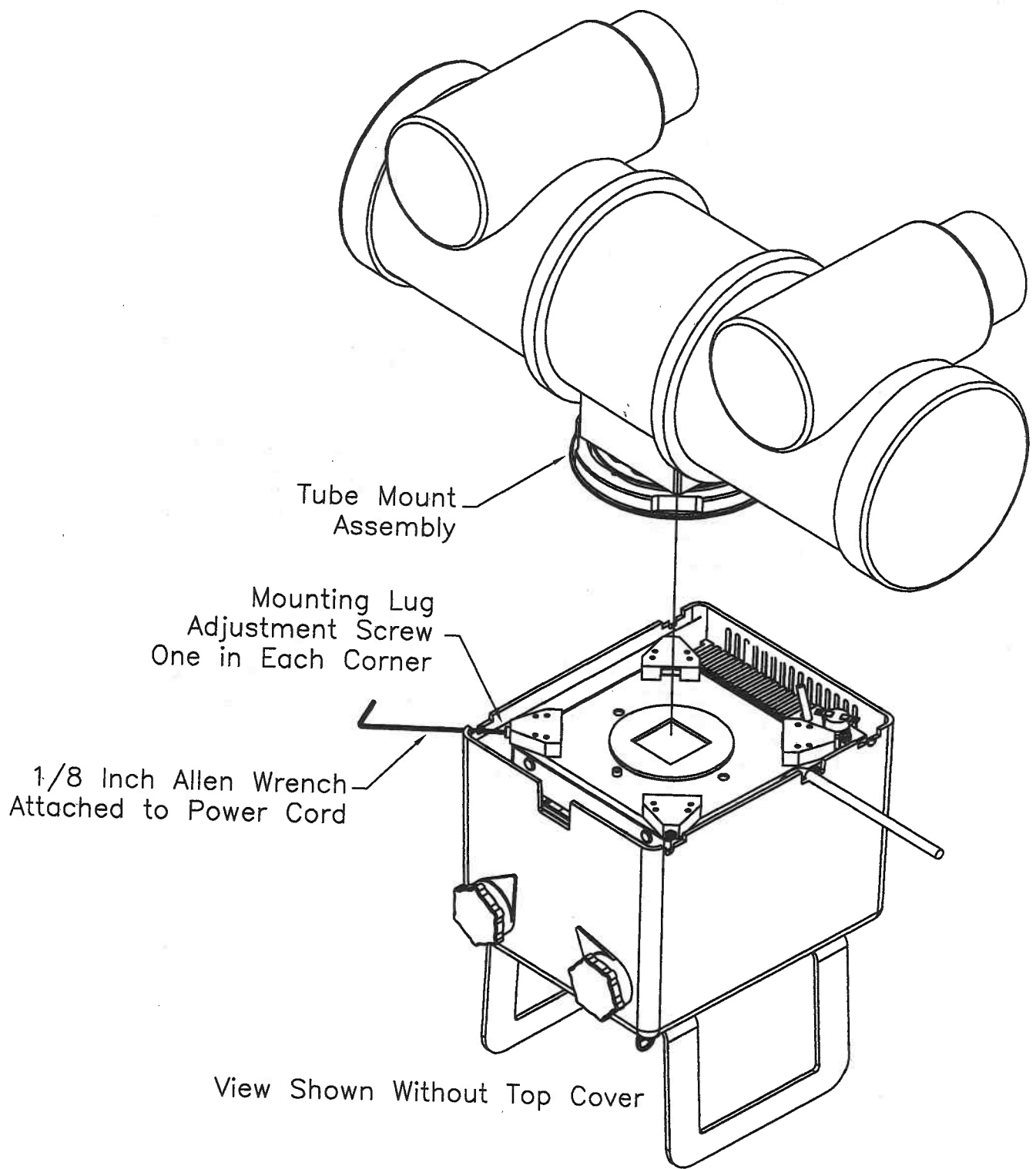


Step 2: Use an 1/8in Allen wrench

Lift the collimator up to engage the mounting ring and tighten the mounting lug screws to an even pressure. Once the screws are tight, back off each screw 1/8 turn and rotate the collimator to align the laser cross hairs with the table or bucky.

Step 3:

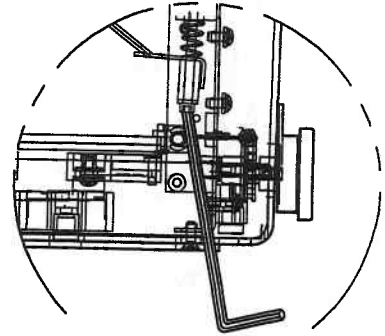
To align the light field and x-ray field refer to pg.2 of this fold out and follow it's instructions.



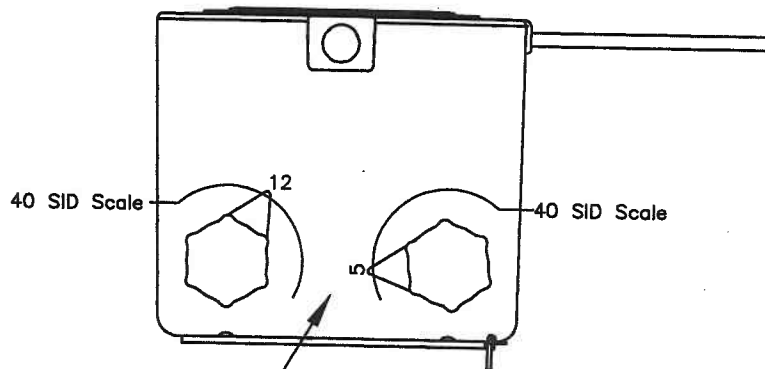
$\frac{9}{64}$ Allen Wrench
Min. Length = 4"

Longitudinal(Left-Right)
Light Field Adjustment.
ClockWise Rotation
Moves Field To Left.

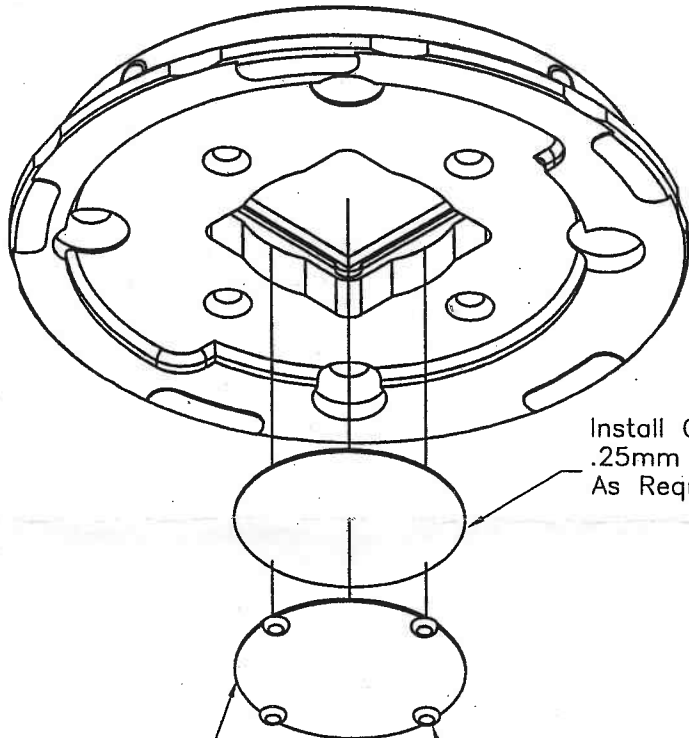
Transverse(Front-Rear)
Light Field Adjustment.
ClockWise Rotation Moves
Field To The Rear.



Tilt Allen Wrench Towards
Front of the Collimator.
The Adjustment Screw is
Approximately 2-1/2 inchs
up into the Collimator



To Adjust Front To Back
Light Field, Align Turn
Knobs To 12in x 5in
At 40in SID As Indicated.



Install One Or Two
.25mm Alum. Filters
As Required

Additional Filtration Provided
For Use Based On Installation
"Half Value" Requirements

Add RTV As Shown
To Retain Filter(s)

FILTRATION INSTALLATION DIAGRAM

This dimension represents 2.0% of 40"SID.
This is the maximum error as allowed By
FDA Specifications.

Step 1:

Place this target on top of the table
Using the turn knobs, size field to
10in x 10in @ 40in SID

Step 2:

Move the target so the lasers align with
the center lines of this target.

Reference Line For Use
During Transverse Light