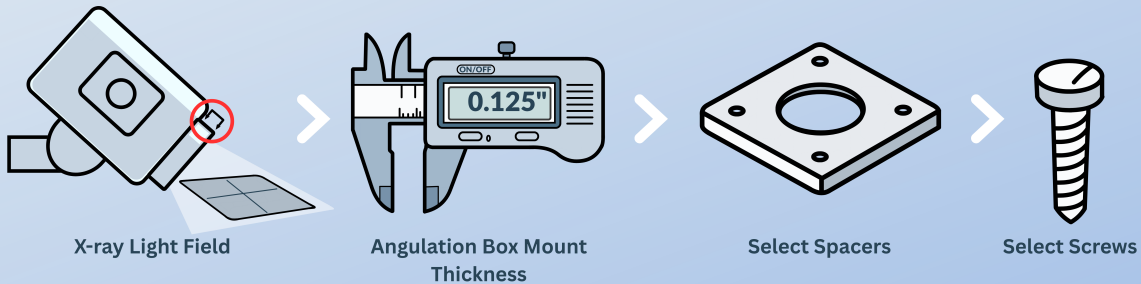




Tube & Collimator Hardware Guide



Hey there Subscriber,

The right hardware makes installation smoother and prevents issues down the line. Use the steps below as a quick guide.

Step 1: Determine X-Ray Tube Focal Length

The focal length is the distance from the anode focal spot to the collimator input. If set incorrectly, the X-ray field will not align with the light field.

Identify the x-ray tube focal length based on the manufacturer and tube model. Common configurations include **53mm and 56mm** focal lengths for Canon/Toshiba and Varian systems. This value is required for spacer and screw selection.

Tip: This step directly impacts spacer count and screw length, don't skip it.

Step 2: Measure Angulation Box Mount Thickness

Measure the angulation box mount thickness. This will be either **0.125" or 0.25"** and is used in both spacer and screw selection.

Step 3: Select the Correct Spacers

Using the tube focal length, mount thickness, and collimator model, select the required number of **1.6mm spacers**.

Spacer requirements vary by:

- Focal length (53mm vs 56mm)
- Mount thickness (0.125" vs 0.25")
- Collimator model (CML-150, Ralco 108/221, Summit G800, Summit D800)

Some configurations require multiple spacers, while others require none. Always reference the spacer selection table.

Step 4: Choose the Proper Screws

Choose screws based on tube manufacturer, focal length, mount thickness, and collimator model. Approved options include:

- **M6 flathead, panhead, or hex head**
- **1/4-20 flathead, panhead, or hex head**

✦ Important: Always use lock washers with hex and pan head screws to ensure secure mounting.

Need more detail? See the document below. [↓](#)

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Have More Questions?

Browse our authorized dealer portal website. This site contains documentation to assist with installation, maintenance, and troubleshooting of Summit supported X-ray equipment.

SUMMITXRAY.COM →

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