

4.0 INSTALLATION INSTRUCTIONS

Carefully unpack the equipment and check for visible damage incurred during shipment. Any damage should be referred to the agency that delivered the equipment. Verify all contents against the packing list and collect published data for further reference. Take care in handling the collimator and do not set it down on the output window.

4.1 COLLIMATOR MOUNTING

Determine the correct collimator spacing requirements with respect to the tube housing port boss per the manufacturer's literature and specifications. The collimator will not perform properly if the focal spot is not correct.

4.1.1 Focal Distance of X-Ray Tube

The Collimator focal spot to upper tube mounting plate distance is:

CPL MODEL: Between 1.52 - 2.05 inches depending on the model**

CML MODEL: 2.44 inches, tolerance of +/- 0.031 inches (1/32")

**Refer to the portable x-ray manufacturer's literature for your specific model focal distance.

Do not rely on tube markings, only reference the x-ray tube data sheet or literature.

Note: Include any X-ray tube mounting plates or spacers when calculating the Focal Spot to Collimator Mounting distance per the equipment and X-ray tube manufacturer's published data

4.1.2 Lead Aperture, Diaphragm, or Input Cone

The Collimator is designed to be used with a lead aperture, diaphragm or input cone in the plastic port of the X-ray tube. Ensure that there is not any mechanical interference between the collimator and the lead aperture, diaphragm or cone in the port of the X-ray tube. If it is found that lead diaphragms or cones require removal or modification, consult the factory.

4.1.3 Aluminum Filter Installation

Install Aluminum Filtration Disks (Provided, included in Manual Bag) as instructed. (See Figure 3, Page 16)

1. Determine the needed filtration based on Half Value requirements (See Appendix 3, Table A3.1)
2. Install one or two 0.25mm Aluminum Filters as required.
3. Add small beads of RTV along the edges to retain filters to the tube mount or another installed aluminum filter.
4. Push filters up into the Tube Mount filter hole and make sure they are seated properly and secure. Make sure the RTV contacts the tube mount or another aluminum filter.