



# Radiation Products Design, Inc.

## Item 681-130 Film Phantom Assembly

1. Insert the fixed stop in the slot at the "Head" end of the film phantom base. The adjustable stop is inserted in the slot at the "Foot" end of the film phantom base.
2. Place the phantom cube and the 1.5 cm and the 5 cm acrylic phantom blocks in the film phantom base. The 5 cm phantom block is placed against the fixed stop, the 1.5 cm phantom block is next to the 5 cm phantom block and the phantom cube is placed at the adjustable stop, "Foot" end on the film phantom base. The phantom cube should be placed so the density inserts are facing up and the slot for the scale is at the "Foot" end of the phantom base.
3. Insert a Ready-Pack "V" film between the 1.5 cm and 5 cm phantom blocks. Tighten the adjustment knob at the "Foot" end of the phantom cube until the film is snug between the phantom blocks. The film should be seated in the groove on the film phantom base.
4. Insert the steel film marker pin through the hole in the fixed stop and the hole in the 5 cm acrylic phantom block. Press the marker pin against the "V" film. The hole in the fixed stop marks the isocenter on the film and the hole in the phantom block gives a film orientation point.
5. Set the assembled film phantom at the gantry end of the treatment couch. The film phantom base should be placed so the "Head" end is at the gantry end of the couch.
6. Place the bubble level on the top of the phantom cube and level the film phantom using the leveling screws on the base. Adjust the film phantom and couch so the CA crosshairs and the lasers line up with the markings on the phantom cube.
7. Move the couch out 8.5 cm; move towards the "Foot" end of the film phantom. This will bring the film to isocenter. The side lasers should be on the film edge.
8. Set the collimator for 20 cm wide and .01 cm length.
9. Set gantry angle.
10. Expose "V" film to 40 mu in at least 5 different gantry angles.

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