

OPERATION OF THE CDV 750 MODEL 6 DOSIMETER CHARGER

BASIC OPERATION

The CDV 750 model 6 dosimeter charger (fig. 1) is used to zero all civil defense dosimeters. The charger is self powered, requiring no batteries. The voltage necessary to charge a dosimeter is generated by squeezing the generator lever. A discharge button allows the operator to set a dosimeter exactly on zero. The clamp trigger pulls back on the clamp to allow a dosimeter to be positioned on the charger or be removed from the charger.

The charger controls the movement of the hairline fiber inside the dosimeter. When the fiber is on zero, the dosimeter is said to be "zeroed".

POSITIONING THE DOSIMETER IN THE CHARGER

1. Hold the charger upright as shown in fig. 1. Lift the clamp and pull it back to its maximum length. Place the dosimeter in the clamp and fit the dosimeter recess (opposite end from the lens) over the charging contact. This allows for electrical contact between the dosimeter and the charger.
2. Squeeze the clamp trigger. Push the clamp forward until the end is against the eyepiece of the dosimeter.
3. Release the trigger. Check that the position of the dosimeter provides a good view through the lens. Refer to fig. 2.

CHARGING THE DOSIMETER

4. With the dosimeter locked in place and lens facing you, point towards a suitable light source, such as, a light fixture, window, candle, etc. as shown in fig. 2.
5. Look through the lens and observe the scale (fig. 3). Squeeze the generator lever and release lightly a few times. NOTE: If the dosimeter is not responding, you may need to apply more pressure with the clamp by gently pushing forward on the clamp against the end of the dosimeter. DO NOT PUSH TOO HARD. You can damage the dosimeter.

Watch for movement of the fiber from the right of the scale towards 0. Squeeze the lever again if needed to zero the dosimeter. NOTE: If the fiber has travelled to the left of the zero but is still visible, push the discharge button and watch the fiber move to the right. If the fiber is not visible, repeat Step 5.

6. To remove the dosimeter, pull clamp trigger, lift dosimeter to just above the end of clamp and pull dosimeter straight back to disengage it from the charging contact. The length of the clamp will not change unless the clamp is manually adjusted.

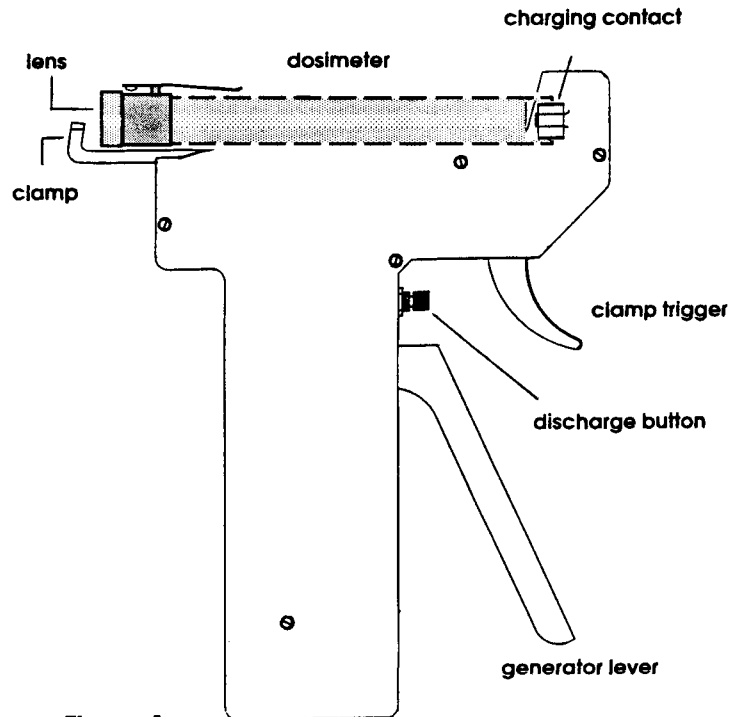


Figure 1

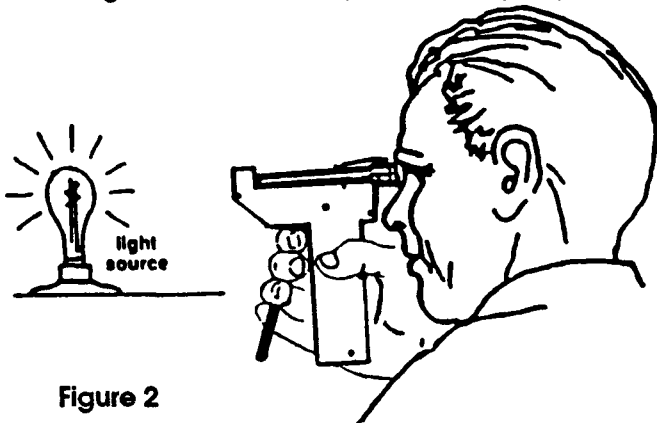


Figure 2

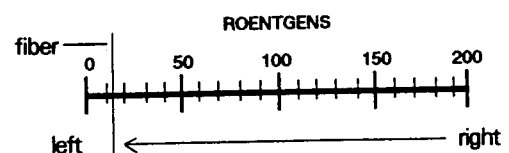


Figure 3