



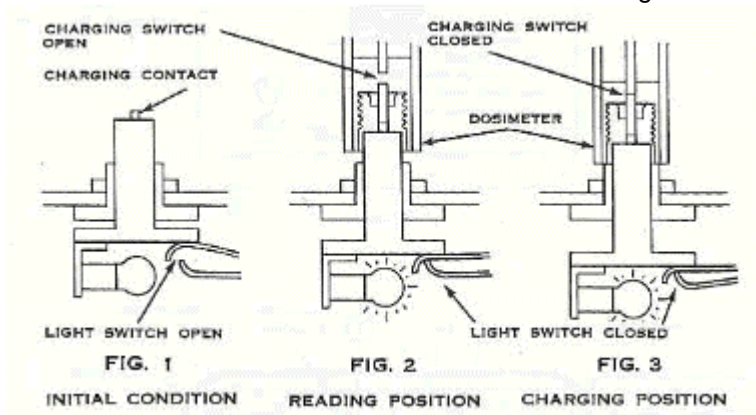
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## Operation & Maintenance Instructions of the AT 750-5 Charger

### Description

The AT-750-5 is a self contained battery operated instrument. This instrument will charge to zero any self-reading dosimeter or Direct Reading Dosimeter (DRD) as sometimes they are referred to. The AT 750-5 is manufactured to ANSI specs. It has a “charging contact” and a “down-scale / up scale” control for setting the hairline indicator in each meter to zero. The charger is powered by a single 1.5 V “D-cell” flashlight battery which operates the charging circuit and the light for illuminating the meter scales. **No tools** are required to change the battery or the light bulb, and there are **no internal adjustments** to be made to the charger.



**Model AT 750-5 charger**  
(Battery not included)

### Operating Instructions

#### To charge (Zero) a Dosimeter

1. Place dosimeter on charging contact and *PRESS DOWN FIRMLY*.
2. Rotate voltage control until hairline image on the dosimeter scale is at zero
3. Remove dosimeter and check reading using charger light (rezero if necessary).

#### To Read a Dosimeter

1. Place dosimeter on charging contact and *PRESS DOWN GENTLY* until charger light illuminates the scale

**CAUTION:** If the dosimeter is pressed down too hard (too far), the reading will be altered.

### Maintenance

#### A. To Open Case

Loosen screw on top of cover and remove cover

#### B. To Replace Bulb

1. Open case
2. Remove bulb
3. Replace with spare bulb (No. 131 bulb or equivalent)

**Note:** There is a hole in the circuit board that will allow storage of a spare bulb, a grommet is necessary to accommodate the bulb (grommet and spare bulb not included)

#### C. To Replace Battery

1. Open case
2. Lift out battery
3. Replace with 1.5 – volt D-cell battery

**CAUTION:** Orient battery as shown by + Pos and – labels on the circuit board.

#### D. Care of Charging Contact

Always keep the protective cap on the charging contact when the charger is not in use. The clear plastic surfaces of the charging contact should be dry, clean and free of fingerprints.

A soft cloth free of grit, dirt, lint or moisture may be used to clean the plastic surfaces.

**CAUTION:** Do not use solvent or cleaning fluid to clean plastic (solvents can craze plastic)

## Storage

- A. Remove the battery from charger, if it is to be stored for more than 2 months
- B. Store with case closed and protective cap on charging contact

## Preventative Maintenance ( once a month)

- A. Clean battery contacts to bright metal with steel wool or equivalent.
- B. Check battery and bulb (replace as required)
- C. Check electrical operation

<b>Trouble Shooting</b>		
If instrument does not appear to operate normally, it may be for one of the following reasons:		
<b>Abnormal Condition</b>	<b>Probable Cause</b>	<b>Corrective Action</b>
Light weak or fails to go on when charging contact is depressed.	Weak Battery  Dirty (Corroded) battery or light switch springs contacts  Loose light bulb  Burned out bulb	Replace Battery  Clean battery and light switch contacts to bright metal with steel wool or equivalent. Tighten bulb in socket  Replace bulb
Shadow appear on dosimeter scale	Dirt on charging contact  Dirt on either end of dosimeter	Clean charging contact  Clean dosimeter seal and eye-piece with clean dry lint free cloth
Fiber image unsteady (jittery movement of fiber image when rotating voltage control)	Poor contact of dosimeter with outer aluminum sleeve of charging contact.	Keeping the dosimeter vertical, move dosimeter sideways to make the charging contact sleeve touch the inside wall of the dosimeter charging recess
Light illuminated scale, but fiber image does not appear on scale with rotation of voltage control.	Poor contact of dosimeter with outer aluminum sleeve of charging contact.  Dirt or moisture on charging end of dosimeter or charging contact  Faulty circuit component or connections	Same as above  Clean or dry faulty part.  Replace charger with new one
<b>Warranty</b>		
There is a 1 year warranty, but shall not apply in any instances where there is evidence of damage by accident, misuse, or alteration.		

**Contact Arrow-Tech, Inc. for more information on the AT 750-5 charger or  
The Direct Reading Dosimeter**

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