

## Photonics Technical Note #7 818BB Series Non-Amplified Detectors

### 818BB-20, -21, -22, -30, -31, -35, -40, -45 Battery Installation

The 818BB series non-amplified detectors use a 3-volt lithium battery. The part number of the battery is Duracell DL2430. **Caution:** Batteries should not be inserted backward as this would forward bias the detector.

- 1) Remove the top cover of the 818-BB by removing the 4 hex cap screws, see Fig. 1.

Top cover of detector

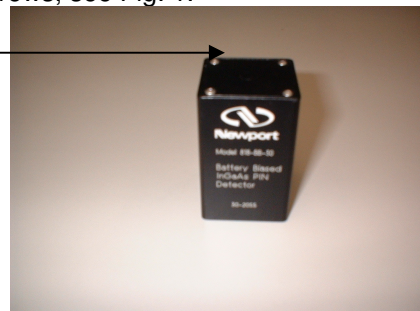


Figure 1. 818BB series detector

- 2) The positive terminal of the battery is in contact with the wire shown in Fig 2.

Wire

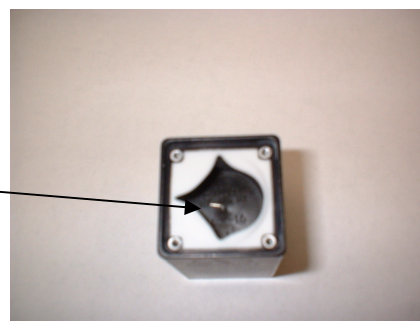


Figure 2. 818BB series detector with the top cover removed

- 3) The negative terminal of the battery is in contact with the spring shown in Fig. 3.

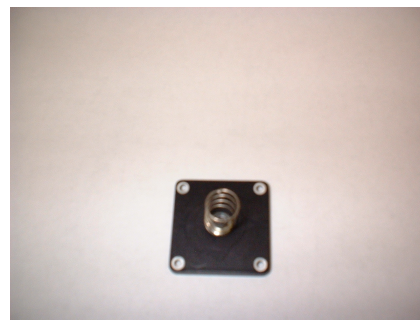


Figure 3. Spring connected to the top cover.

4) The battery position in the detector prior to replacing the top cover is shown in Fig. 4.

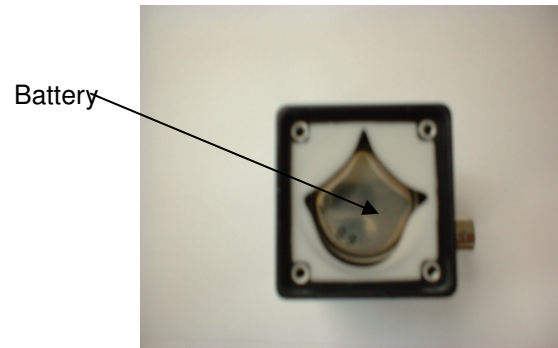


Figure 4. Negative terminal of battery.