

C7011 - Radiation Illuminator Display

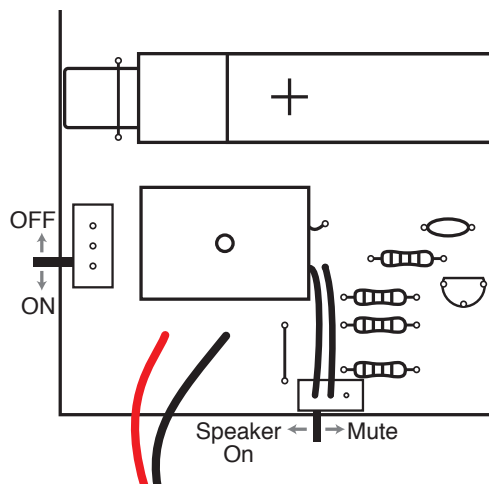
The C7011 - Radiation Illuminator Display comes fully assembled and tested for proper operation.

The Radiation Illuminator Display is shipped ready for use by simply plugging its AC adapter into a standard electric wall outlet.

The Radiation Illuminator Display can also operate on a 9V battery (not included).

Important: Never plug the Radiation Illuminator Display adapter into a power source while a 9V battery is connected to the battery snap, doing so may cause damage.

There are two switches on the Radiation Illuminator Display circuit board, an on/off switch and speaker mute switch. The switch functions are shown in the illustration below.



If the Radiation Illuminator Display is going to be operated from a 9V battery turn the kit off using the on/off switch and make sure the AC adapter is unplugged before connecting your 9V battery, after the battery is connected turn the switch back to the on position. The GM tube used to detect radiation uses high voltage so reversing polarity of the power source may cause damage to the components.



The Radiation Illuminator Display is sensitive to beta and gamma radiation and will pick up ambient radiation. The display will flash the center red LED array when low intensity radiation is detected. As greater radiation intensity is detected additional LED arrays will light up and eventually light up the outer red LED array. There are five radiation levels indicated by the display and clicks.

Ambient radiation will vary depending on location and environment. Here in Arizona the ambient radiation intensity will flash the first LED array (level 1) about 20 times per minute and occasionally the second LED array (level 2). Level 5 (all LEDs lit) the detection rate is greater than 20 times per second.

The Radiation Illuminator Display may occasionally flash a radiation level 2 indication while making a single click, this is caused by multiple radioactive particles contacting the GM tube before a single click duration has been completed. Occasional radiation level 2 indication is normal and should not be interpreted as a constant radiation level 2 indication.