

Directions for using Radius Lantern No. 119.

Filling. Screw off the filler cap No. 12/47 and fill the container $\frac{3}{4}$ full with pure kerosene (paraffin oil). It is advisable to filter the kerosene when thus filling the container, for it is extremely important for a good function of the lantern that there are no impurities in the kerosene. After filling the container screw on the filler cap but leave the air-vent screw No. 0/43 open.

Lighting. Every lantern is supplied with a spirit can which automatically leaves suitable quantity of methylated spirit. The spout of the can is curved in such a way that the spirit cup can be filled easily through the hole "A". The methylated spirit having been ignited and nearly consumed, screw down the airvent screw No. 0/43 and start pumping slowly until the lantern is lighted. Should the lantern not light by the flame of the burning spirit, put a lit match to the air holes under the top cowl No. 119/21. Increased pumping results in increased intensity of light.

Extinguishing. Open the air-vent screw No. 0/43 and leave it open.

Cleaning of nozzle. The nozzle No. 119/28 will need cleaning now and then. This is done by turning the hand-wheel No. 103/96 one complete turn. When the mark on the hand-wheel is turned **upwards** the nozzle is open. When the nozzle is to be cleaned pump up a good pressure in the container so that the gas rushing out through the nozzle can carry with it any loosened particles.

Cold lighting. It may happen, if the pumping starts too early, that kerosene comes out through the nozzle without being vapourized and gets ignited. This is called "cold lighting" and is recognized by white sooty flames around the incandescent mantle. Should such "cold lighting" occur, open the air-vent screw No. 0/43, thus extinguishing the lantern, and re-ignite.

Exchanging the Mantle. Loosen the hood catches No. 119/67 and lift off the top part of the lantern. Remove any soot and dust which may have collected in the gas mixer No. 119/46 and the flame spreader No. 119/31. When tying a new mantle onto the flame spreader beware that the fabric is evenly distributed around same. The mantle having been tied on, cut off superfluous ends of the string.

Packings. The different packings and washers belonging to the lantern (see picture) must always be kept in good condition. Worn out packings must be exchanged.

Pump. Should the pump not work perfectly the leather washer should be oiled and bent out. Should this washer be worn out it must be exchanged.
