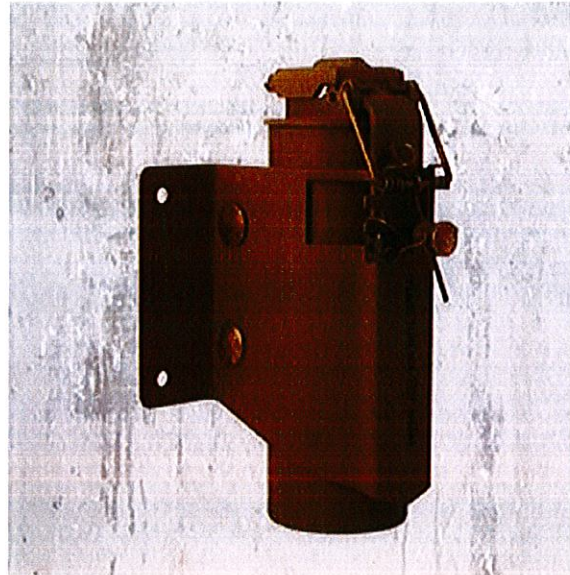


## FLARE SURFACE TRIP, M49A1

A **tripflare** is a device used by military forces to secure an area and to guard against infiltration. It consists of tripwire around the area, linked to one or more flares. When the tripwire is triggered, as by someone going through it, the flare is launched and begins burning. The light from the flare simultaneously warns that the perimeter may have been breached and also gives light for investigating.

M49-A1 Surface Trip Flare is used for illuminating encampment perimeters or as a booby trap signal. The flare may be fired by releasing the trigger or by removing a pull pin. If a tripwire is used, cutting or breaking the tripwire will also fire the unit.



### General.

The flare, which is OLIVE DRAB, in color, consists of the following main components

- a. the illuminant assembly;
- b. the cover loading assembly; and
- c. the mounting bracket assembly.

### The Illuminant Assembly.

The illuminant assembly consists of an aluminum case containing three identical illuminant pellets, an ignition pellet topped with the first fire composition, and a baffle.

### The Cover Loading Assembly.

The cover loading assembly consists of a zinc alloy cover to which is assembled a percussion primer M42, intermediate charge, disc, hinge pin, striker, spring, lever and safety clip with pull pin. The cover is press fitted into the aluminum case with the joint being waterproofed.

The M49A1 flare resembles the No. 83 grenade in size and shape.

When the flare is actuated, the pyrotechnic illuminant mixture is ignited immediately.

The flare burns with a yellowish-white light for **55 to 70 seconds**.

It produces approximately **forty thousand candle power**, illuminating an area up to **275 meters in radius**, depending on the terrain.

The flare is activated either by means of a loose trip wire, or a trip wire under tension.

**Dimensions :**

**height : 120mm**  
**height cylinder only : 105mm**  
**diameter : 39mm**  
**weight : 277g**



**Trip Flare Safety**

During installation of a flare for firing in training, all personnel, except those actually working on the flare should be under cover or at a distance of no less than 46m (100ft) from the firing site.

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