

gives the power supply a shelf life of about 5 years and which could be easily substituted. This cell is capable of feeding all electrical and electronic circuits of the mine at least for the life time specified by the manufacturer. A self neutralized mine may be reused after having been reprogrammed, with or without the need for refurbishing based on the fusing mechanism used and after a battery check is performed. The mine is reusable if a self neutralization device has been selected and it can be recovered at the end of the pre-set life time having checked that it is in safe condition by means of a status detector and by checking the indicator position. The status detector and the mine communicate by radio and messages are coded to avoid jamming. Such mines provided with a self neutralizing mechanism are capable of safely switching off the mine, i.e misalignment of the explosive train and short circuit of the firing lines, without destroying it at the end of its programmed life time.

The main fusing mechanisms used for the third generation of anti-personnel landmines, except for directional fragmentation types, are pressure or pressure and pull (trip wire) activated while the anti-tank landmines could either be pressure or influence activated. Directional fragmentation mines are used as anti-personnel and/or anti-vehicle based on the size of the steel balls and penetration performances. In most cases, such directional fragmentation anti-personnel and anti-vehicle mines do not have any fusing mechanism since they are command detonated. However, some of them could be boobytrapped using trip wires. Such anti-personnel and anti-vehicle mines could also be equipped with a self destruct or self neutralizing device.

Only a few electronic ground emplaced or scatterable jumping anti-personnel mines are equipped with a safety time of about 10 minutes needed to elapse before three trip wires are automatically ejected by the fuse, with an explosive train alignment mechanism and with a self neutralizing device which become active when the active life time has expired. Such electronic jumping anti-personnel mine is shown in Figure 26. Upon self neutralizing activation, the primer is fired in misaligned position causing an external steel belt to be released and a red band to be displayed, thus evidencing neutralization from a distance.

Single or double impulse pressure activated anti-tank landmines are mainly designed to produce a mobility kill by destroying the tracks, the wheels and/or suspension gears of