

the actual mine fuse wells. This would lead to the use of an external electronic fusing mechanism.

Existing mechanical single or double impulse pressure fused anti-tank mines which have been retrofitted, are mainly equipped with magnetic influence fusing mechanism in order to be effective on a full width rather than on the vehicle tracks, as shown in Figure 30.

### *6.2.2 Tilt Rod fused Anti-Tank Mines*

The tilt rod fused anti-tank mines are equipped with a mechanical fusing mechanism which incorporates an expelling charge used to drive a firing pin, a delay in order to provide the armoured vehicle to move further and perform a belly attack, a metallic casing, a booster and a main charge like the M21 mines in Canadian inventory. Today, such tilt rod fusing mechanisms are not manufactured anymore and from a tactical point of view, the rod is very easy to locate from a distance thereby revealing the exact position of the mine.

The whole mechanical tilt rod fusing mechanism could be retrofitted with an electronic impulse pressure or magnetic influence fuse and the explosive train would require to be redesigned accordingly in order to insure proper initiation of the main explosive charge. The electronic fuse selected would probably be slightly above the top surface of the mine body and would require to fit the existing fuse well threads.

### *6.2.3 Magnetic, Acoustic or Seismic Influence fused Anti-Tank Mines*

The magnetic, acoustic and seismic influence fused anti-tank mines are mainly classified as the third generation of landmines since they are already equipped with electronic timers, clocks and discriminating pre-set values for influence signals (see Figures 31 and 32). The second generation of influence fused anti-tank mines were built to reply to one influence only while the third generation of mines are equipped with fuses incorporating dual influence signals which could either be magnetic and seismic or magnetic and acoustic in order to clearly discriminate the designated targets. Such influence fused anti-tank mine is shown in Figure 33.