

#### *5.2.4 Single Impulse Pressure fused Anti-Tank Mine DM21*

A cross section of the pressure fused anti-tank mine DM21 is shown in Figure 20. A cross section of the fuse DM1001 used in the mine is shown in Figure 21 and details of the arming plug are shown in Figure 22.

The DM21 mine consists of an aluminum casing containing the explosive charge and the pressure fuse DM1001. The fuse is inserted into the mine casing immediately before laying the mine. The DM1001 is a mechanical pressure fuse equipped with an ignition chain interrupter regulated by a clockwork and a lock of the firing pin. When the arming lever is turned from position S to F, the clockwork starts to run and after approximately 5 minutes the detonator is aligned with the booster charge. When a pressure is applied by a tank or the tipping cover of the mine housing, the firing pin is released thereby initiating the explosive train.

The retrofitting of the DM21 mine would involve replacing the fuse and the explosive train with an electronic pressure fuse having a self destruct or self neutralizing device.