

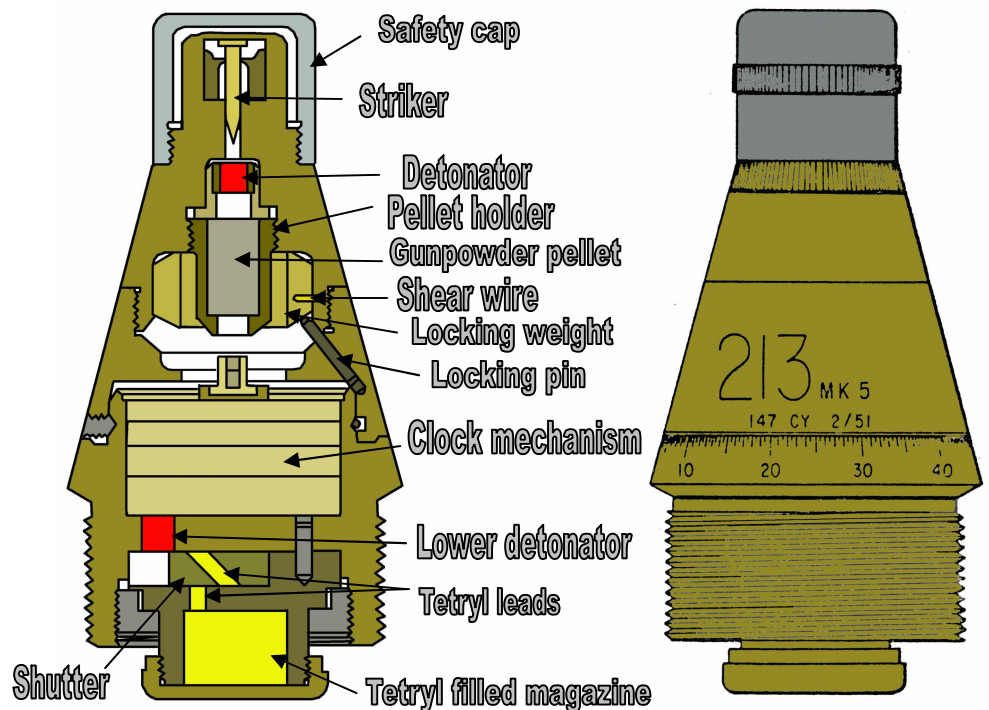
TIME AND PERCUSSION No. 213 Mk. 5

This fuze was used in QF 25pr, BL 5.5 inch guns and BL 7.2 inch howitzer shells in the HE and bursting smoke roles.

The time mechanism in this fuze wouldn't arm when fired at charges 1 and 2 in 25pr. Guns and charges 1, 2 or 3 in 5.5 inch and 7.2 inch howitzer. This fuze was introduced in 1944 for use in field guns 3.7 to 7.2 Inch and it utilized a Krupp-Thiel 43-second movement for the time element and an American M48 percussion mechanism for the impact. The fuze ran through 8 mark numbers. The fuze will also be found with steel bodies instead of the usual brass.



Fuze Time Mechanical No. 213 courtesy of ALTC.



ACTION.

Prior to firing the safety cap is removed and the time ring is moved to the required time.

On firing the locking weight sets back shearing the shear wire and driving the locking pins into the locking position in slots provided in the dome. This action locks the time mechanism so that no change in the time as set can occur. The clock mechanism commences to run

When acceleration ceases the shutter moves into the armed position bringing the Tetryl leads into alignment.

At the end of time as set the time mechanism releases a striker that fires the lower detonator, which detonates the Tetryl leads and the magazine.

On impact the cap is crushed driving the striker into the top detonator and the flash from this is picked up by the gunpowder pellet. The flash from this passes through channels in the fuze body and detonates the lower detonator with the same results as for time operation.

The detonation of the magazine is passed into the shell.