



The M200 HEDP
A new generation of rifle grenade

Background

- ▶ Modern references to the rifle grenade start in the 1904 Japan - Russia war
- ▶ Used in Second World war but reached a peak usage in Korean War
- ▶ Displaced by 40mm grenade launcher
- ▶ Still used extensively by some defense forces
- ▶ Resurgence of interest, as additional weapon not alternative to M203

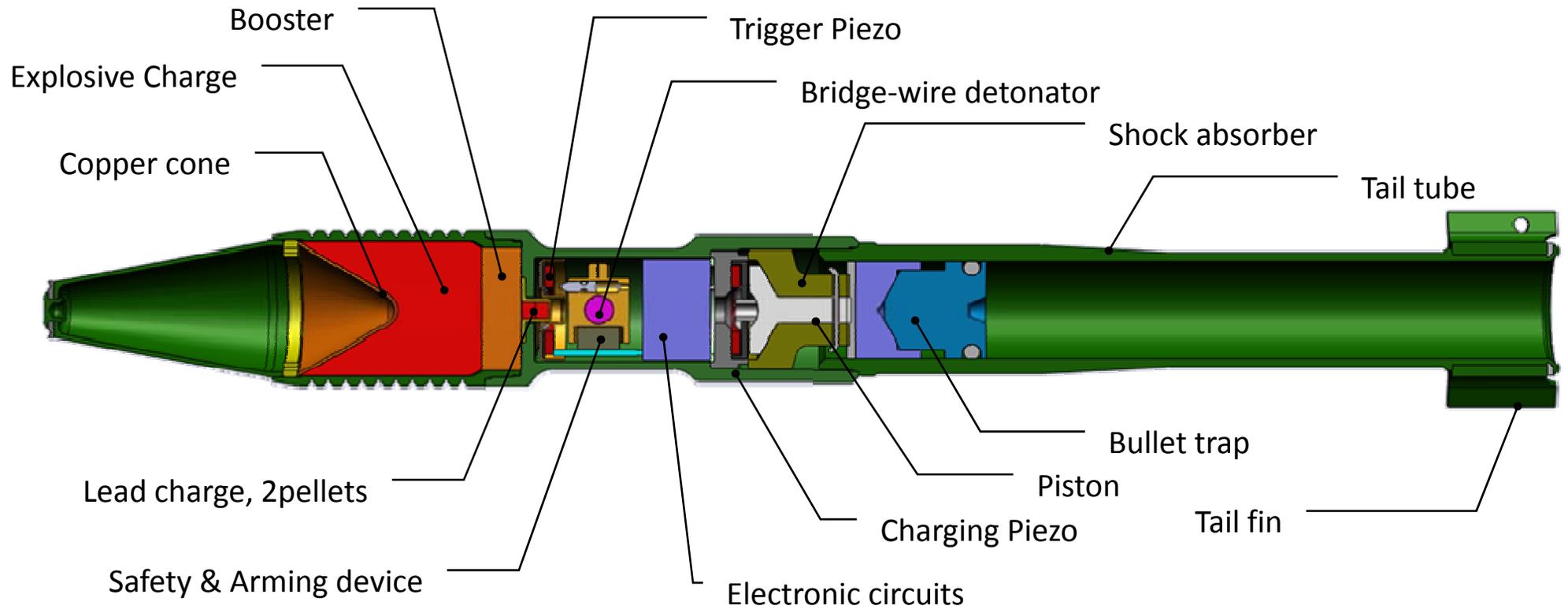


Overview

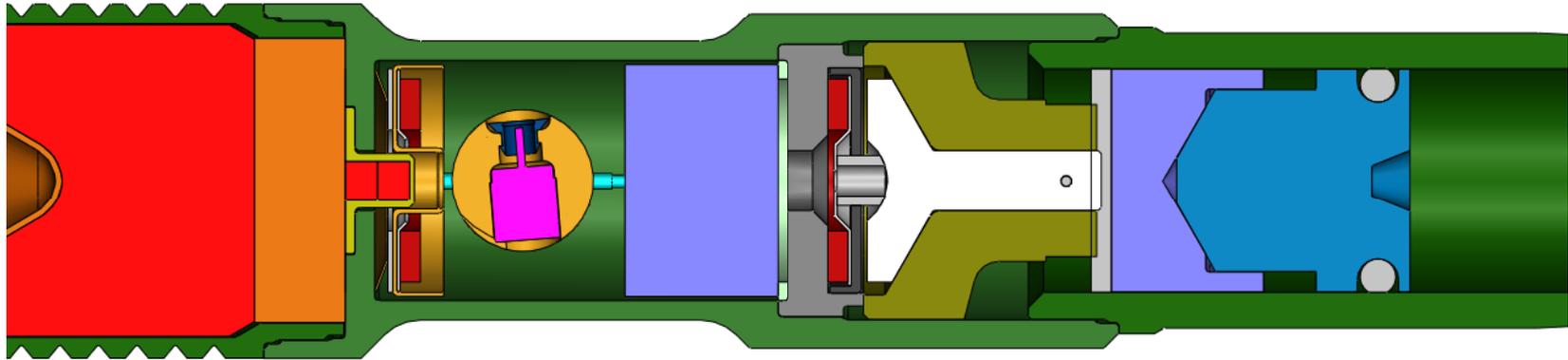
- ▶ M200 uses well proven bullet trap
 - ▶ No bullet to worry about
 - ▶ No special cartridge required, fires with standard 5.56 or 7.62
- ▶ No launcher required
 - ▶ Grenade slips over flash hider
 - ▶ No added bulk to weapon
 - ▶ Every soldier in the squad has one
- ▶ Electronic fuze
 - ▶ MIL-STD-1316 - Two totally independent arming environments
 - ▶ Fast acting base detonating fuze ideal for shaped charge
 - ▶ Excellent graze sensitivity
 - ▶ Self sterilization - impossible to rearm



Overview



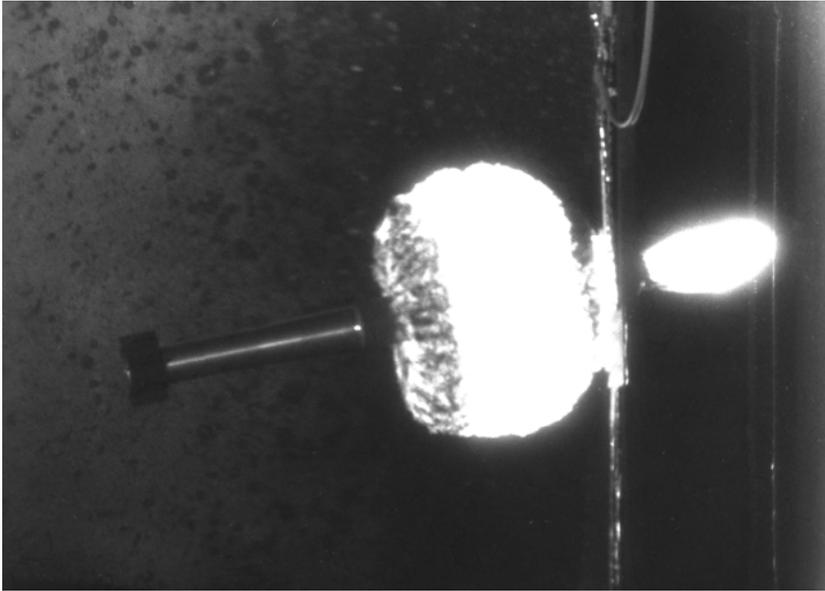
Fuze Arming



- ▶ No stored energy
- ▶ Bullet impact
- ▶ Charge generated by piezo
- ▶ Acceleration of grenade due to gun gas
- ▶ Safety and arming brings detonator in line
 - ▶ 120 msec
 - ▶ 6 - 8 m
- ▶ Electronic delay allows firing circuit to be active
 - ▶ 290 msec
 - ▶ 10 - 20 m



Fuze Functioning



- ▶ On impact trigger piezo closes firing circuit
 - ▶ Shock travels at sound speed through body
 - ▶ Acts on 1mm cardboard
- ▶ Shaped Charge capable of penetrating 80mm RHA
- ▶ Fragmentation comparable classic hand grenade
- ▶ Sterilization after 40 sec in event of soft landing



Enhancing small arms effectiveness

