OVERHEAD SAFETY

NEXT GENERATION ELECTRONIC TIME FUZE

Accurate
Safe
Reliable
Delivers Top Performance !

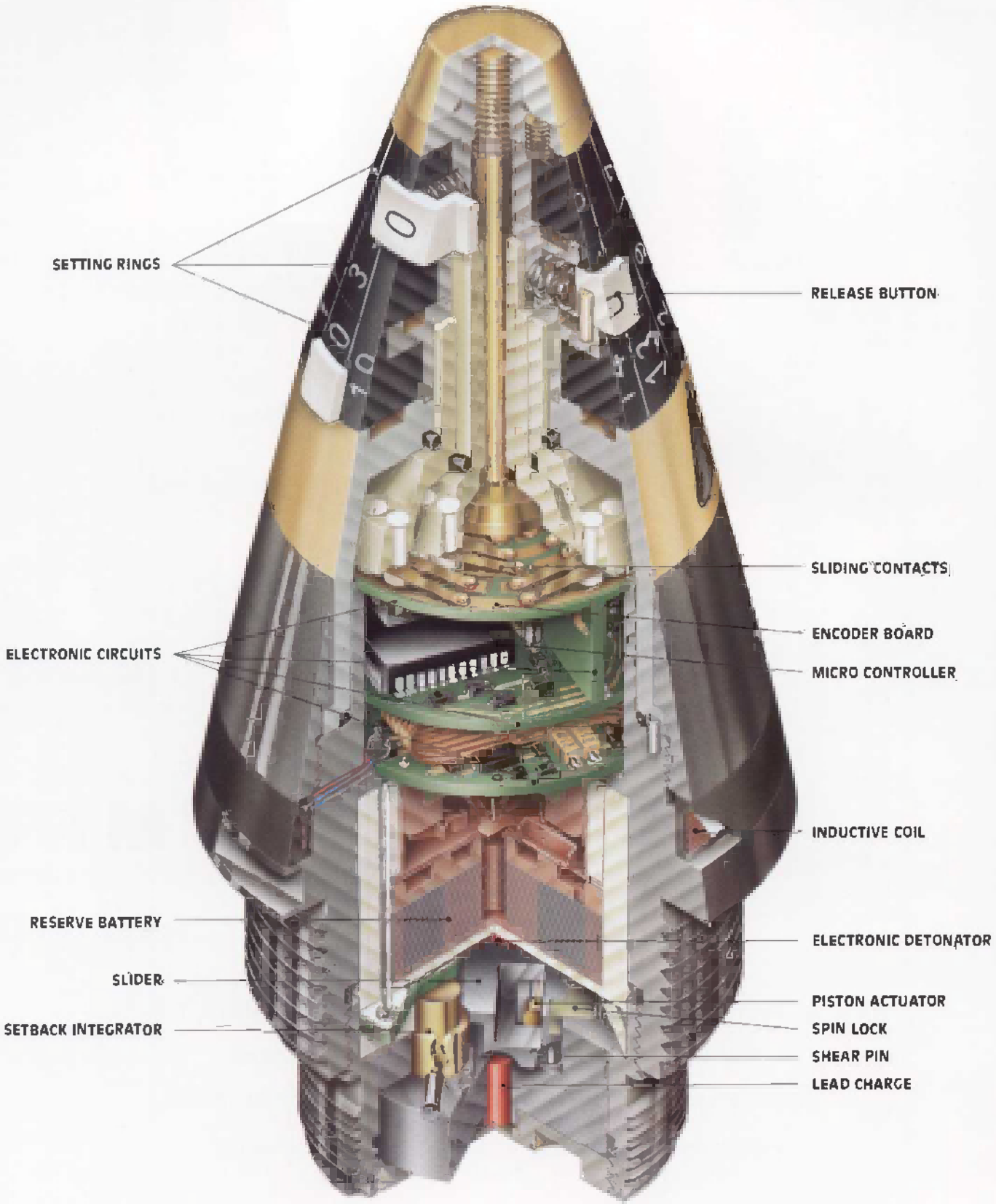
BETA M170

BETA M170 , the highly accurate second generation, electronic artillery time fuze

Accuracy is better than 0.05sec. over the entire range

- *wide compatability*
- *automatic and manual time delay setting*
- *point detonation settable*
- *provides overhead safety*

BETA - M170
ARTILLERY ELECTRONIC TIME (ET) FUZE



TECHNICAL SPECIFICATIONS

COMPATIBILITY

105mm, 155mm & 203mm (8") howitzers, 130mm & 175mm guns and 4.2" mortars.
Expelling mode (less booster) -- for smoke, illuminating, leaflets and cargo projectiles.
Detonating mode -- for HE and WP projectiles.
For all charges, muzzle and terminal velocities.
Replacement for -- M520A1, M565/564, M577/582, M762/767, DM143/163, DM52, FB388/368, FB568, FU DE F2, aXKπ-1, M8611A2, M922OA1.

TIME DELAY SETTING

Delay setting is performed by two systems:

- **Automatic Setting System** - Time delay is transmitted directly from the fuze setter into the fuze by inductive means.
- **Manual Setting:**
  - Manually operated from 3.0 to 199.8 seconds in 0.1sec. increments.
  - Digital setting, positive self-locking, by three setting rings.
  - Unlimited setting storage time (no use of batteries).
  - Point-detonating superquick functioning when 199.9 secs. time setting is selected.

ACCURACY

Better than 0.05 sec.

SAFETY & ARMING

By two independentarming mechanisms;-
- Set back of 400 g minimum.
- Spin rate of 1200 RPM minimum.

OVERHEAD SAFETY

The fuze will not arm until 0.2 secs. prior to the set time.

POWER SUPPLY

The fuze utilizes a reserve battery as a power supply.

EXPLOSIVE OUTPUT

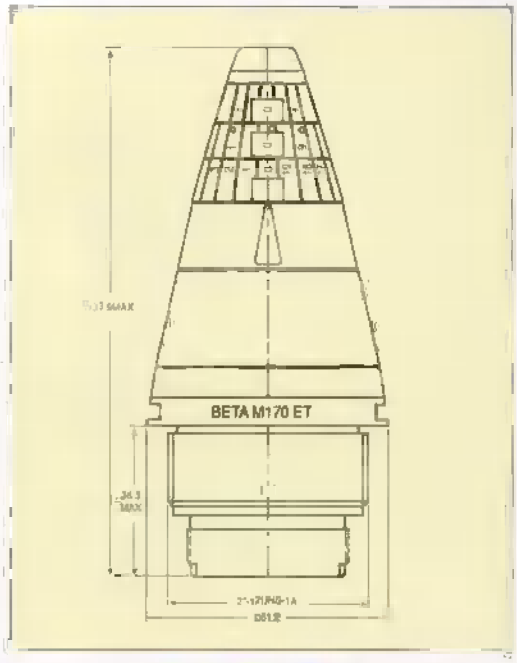
Expelling mode fuze - 258 mg RDX. (PA 510)
Detonating mode fuze - 27 g CH-6

BACK-UP

Impact back-up for detonating mode.
Optional impact back-up for expelling mode.

TEMPERATURE CONDITIONS

Operation -	from -46ºc to +63ºc.
Storage -	from -54ºc to +71ºc.



FUZE BETA M170

PHYSICAL DESCRIPTION

Overall length -	Expelling mode fuze	- 133.9mm max.
	Detonation mode fuze	- 151.6mm max.
Intrusion size -	Expelling mode fuze	- 38.3mm max.
	Detonation mode fuze	- 56.1mm max.
Cross section diameter -	61.2mm	
Thread size -	2"-12UNS-1A	
Weight -	Expelling mode fuze	- 0.70 kg.
	Detonation mode fuze	- 0.75 kg.

MILITARY STANDARDS

MIL-STD-331B	Environmental and performing tests for fuze and fuze components.
MIL-STD-333A	Fuze, projectiles and accessory contours.
MIL-STD-1316D	Fuze design, safety criteria.
MIL-STD-1900	Inductive set projectile fuze systems.
STANAG-4187	Fuzing system - safety design requirements.
STANAG-4369/AOP 22	Auto setting of electronic projectile fuzes.

BETA M170 FUZE SETTER