

NEXT GENERATION ELECTRONIC PD FUZE

Safe
Reliable
For All Calibers
Delivers Top Performance !

EPD

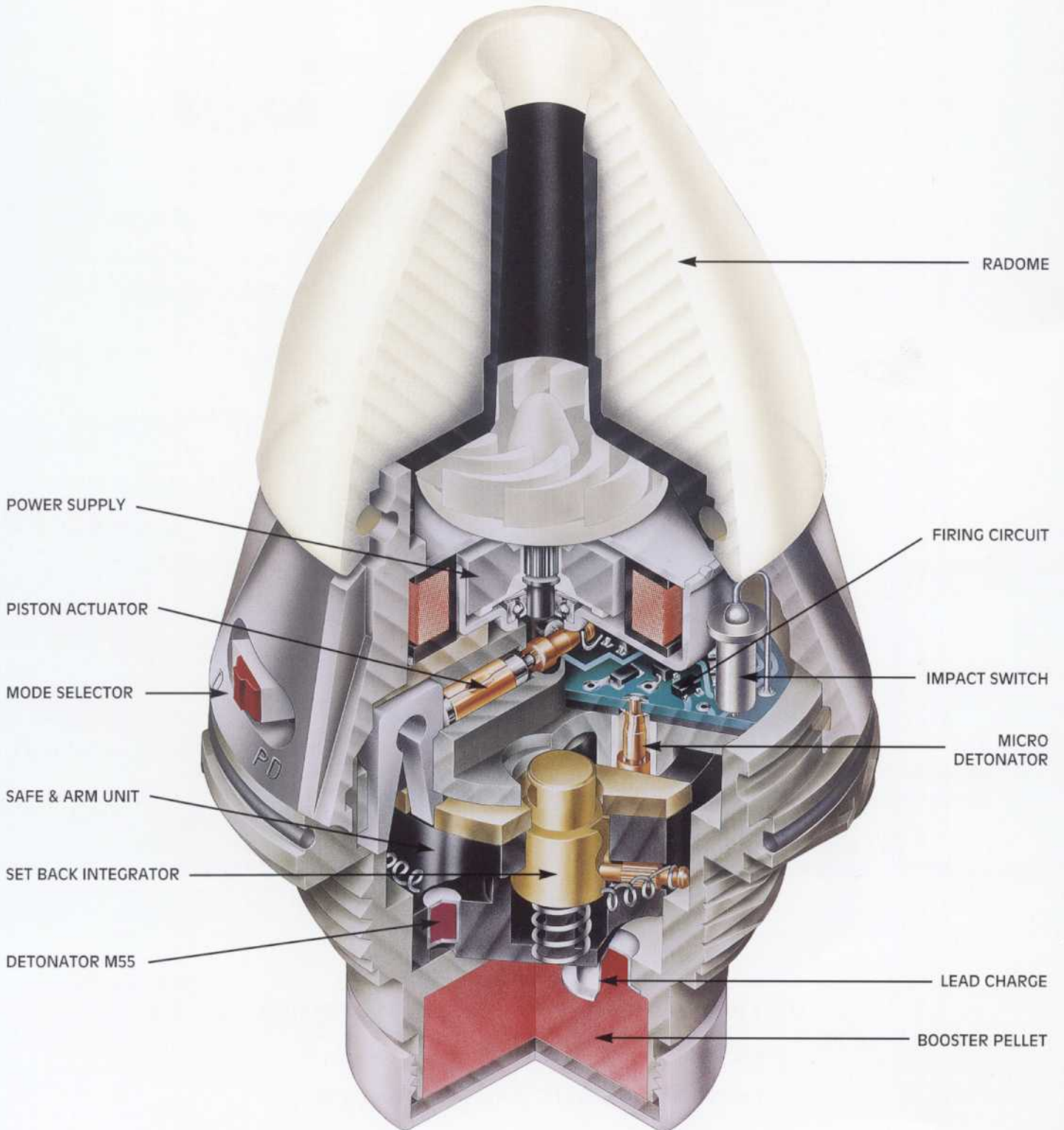
M797

M797 is an Electronic Point Detonating (EPD) fuze

- *wide compatibility*
- *meets all MIL-STD-1316C safety requirements*
- *no use of safety pull wire*

RESHEF TECHNOLOGIES LTD.

EPD - M797 Electronic Point Detonating (EPD) Fuze for Mortar Bombs



TECHNICAL SPECIFICATIONS

GENERAL:

The M797 is an Electronic Point Detonating fuze (EPD) with the option of selecting a delay mode (D). This highly reliable fuze, utilizes two independent mechanisms for arming the fuze and does not consist of a safety pull wire.

COMPATIBILITY:

To be used with all types of He and WP mortar bombs of calibers: 60 mm (of improved Ballistic design), 81 mm, 82 mm, 120 mm and 160 mm.
Interchangeable with the following fuzes: DM111A2/A3/A4, M525, M734, M935, V19P, and with an adaptor - M567, M526.

OPERATION MODES:

Point detonating (PD) -	detonates warhead on impact with target.
Delay (D) -	detonates warhead after 50 milliseconds from impact with target.

ARMING:

Fuze arming (when the explosive elements are in one detonating line) is done by two arming mechanisms:
set back forces
sustained air flow

SAFETY:

Set back -	Acceleration of 400 g minimum, for a duration of 1 millisecond minimum.
Air speed -	of 30 m/s minimum.
Missequencing -	This mechanism prevents arming the fuze whenever arming condition of "air flow" precedes arming condition of "set back".
Fail safe mechanism -	Self-lock system in safe position, whenever missequencing occurs, without external arming possibility.
Arming distance -	70 m minimum from muzzle.
Double loading -	The fuze will not function in bore in a double loading event.
Shorted detonator -	The electronic detonator is shorted until arming.
Safety pull wire -	No use of safety pull wire.

POWER SUPPLY:

Air driven (turbine) alternator.

EXPLOSIVE OUTPUT:

7gr of CH-6 booster pellet.

TEMPERATURE LIMITS:

For firing -	From - 40°C to 63°C
For storage -	From - 40°C to 71°C

PHYSICAL DESCRIPTION:

Total length -	95.1 mm
Cross section diameter -	51.1 mm
Intrusion depth -	28.4 mm
Thread size -	1,5"-12UNF-1A, 2"-12UNS-1A, 35.7-Pas 200 (can be changed according to customer's request).
Weight -	0.275 kg

MILITARY STANDARDS:

MIL-STD-331B	Environmental and performance test for fuze and fuze components.
MIL-STD-333A	Fuze, projectile and accessory contours.
MIL-STD-1316D	Fuze design, safety criteria.
STANAGE 4187	Fuzing system - safety design requirements.

