



HIGH-RISK MUNITIONS IDENTIFICATION GUIDE

PREPARED BY

THE FOREIGN ORDNANCE SECTION. EOD DIVISION
US ARMY RESEARCH. DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL. NEW JERSEY

FOREWORD

All ammunition by its nature is dangerous. However some items are inherently more dangerous than others, either by intent or by design, and they require special caution when approaching and handling.

This publication, which is a compilation of "high-risk" munitions, is intended for Army EOD personnel to use as a training and reference guide. You can find more detailed information about the munitions listed in this handbook in various EOD publications.

To increase the usability of the publication, it has been divided into unclassified and classified sections. Use both sections to ensure a complete reference. Do not consider this handbook all inclusive, however, particularly in the area of landmines. Further information about "high-risk" munitions will be disseminated as it becomes available.

User comments are welcomed. Address them

Commander, ARDEC ATTN: SMCAR-FSX (Bldg. 281) Picatinny Arsenal, NJ 07806-5000

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to:



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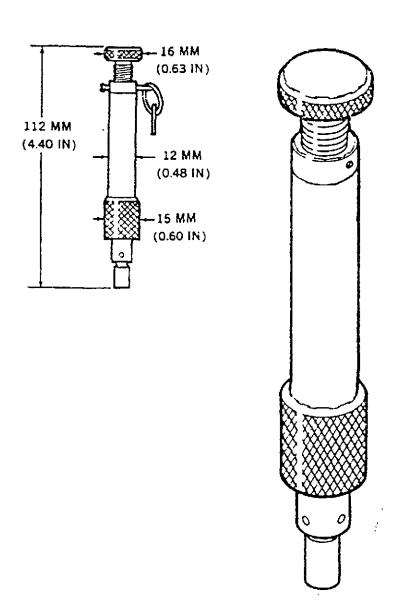
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	U.S. Bomb Fuze, M132, M133 and M134	

DELAY ACTION FIRING DEVICES

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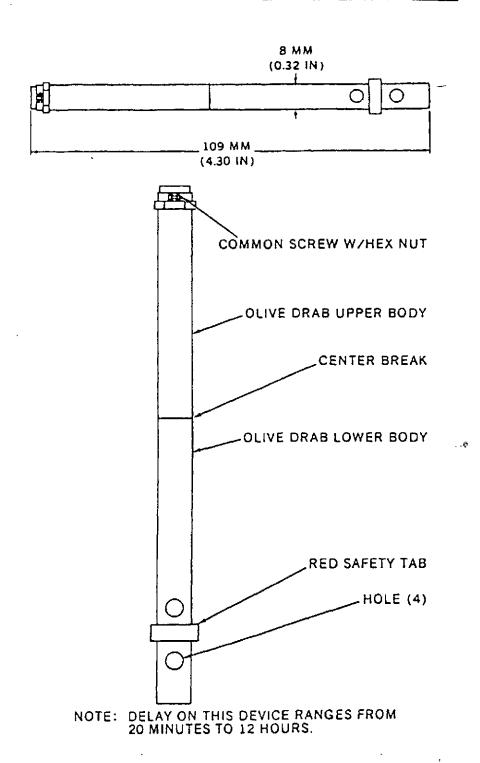


Egyptian Igniter, Chemical Delay, Model Unknown



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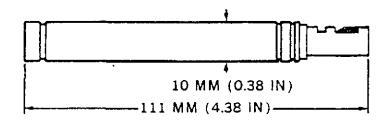
Spanish Firing Device, Chemical Delay, Model Unknown

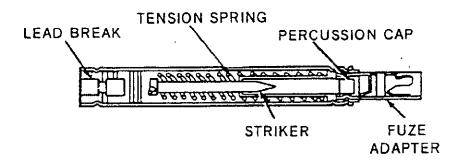


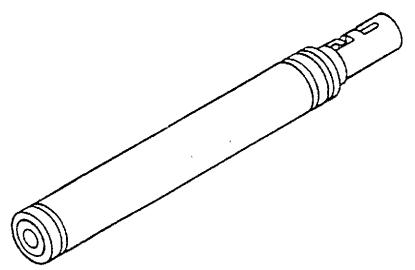
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U.K. Delay Firing Device, L. Delay Switch, No. 9 Mk 1



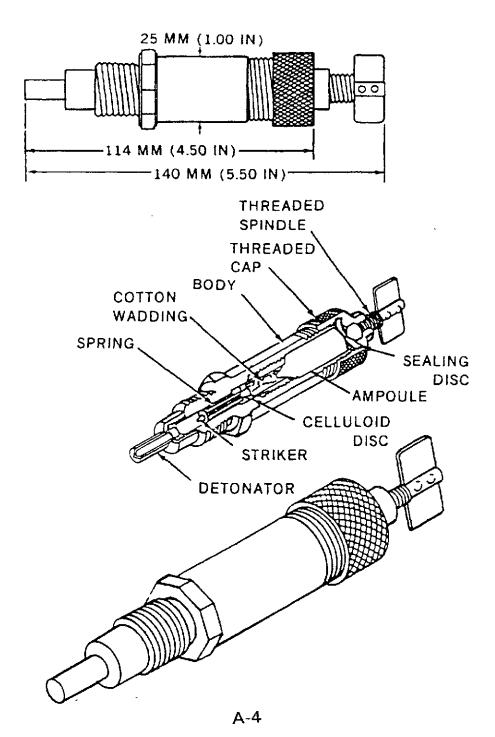




NOTE: THE DELAY SWITCH FUNCTIONS ON THE BASIS OF METAL FATIGUE.

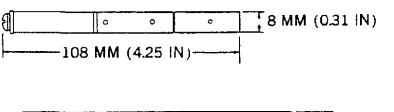
U.K. Delay Firing Device, AC Delay Igniter, Mk 1

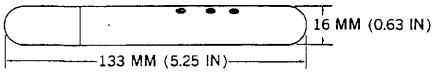
Limpet: Rigid, Land Use, Model Unknown

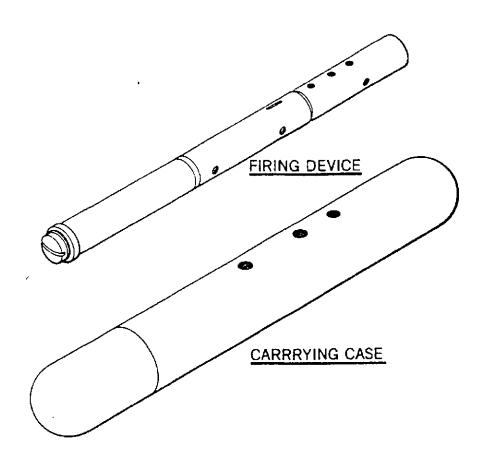




Former U.S.S.R. Firing Device, Chemical Delay, My-8

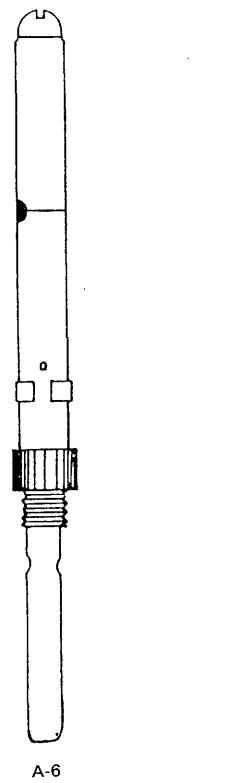




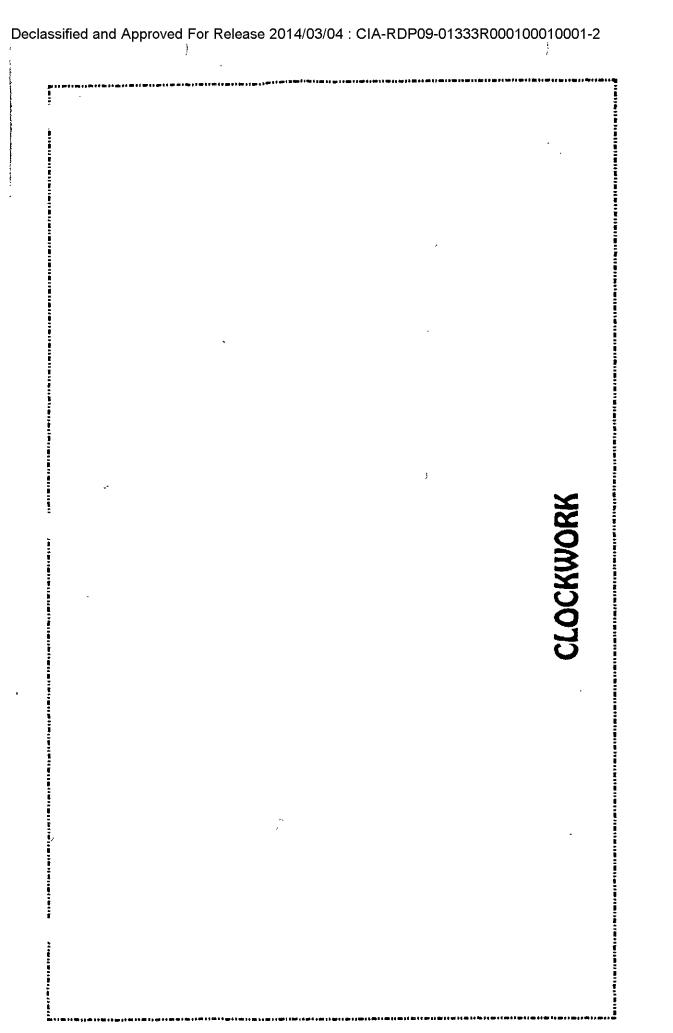


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Former Yugoslav Firing Device, Chemical Delay, Model UDZK

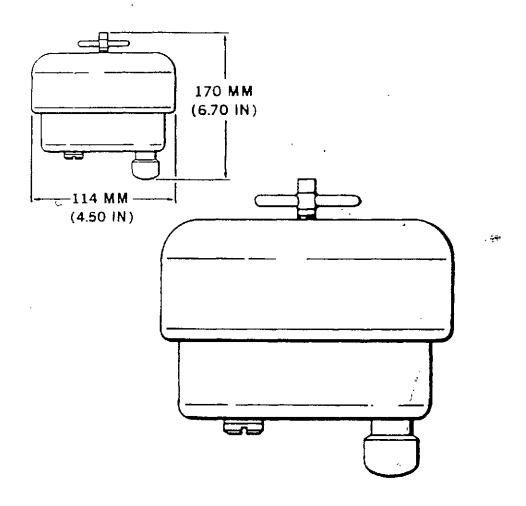


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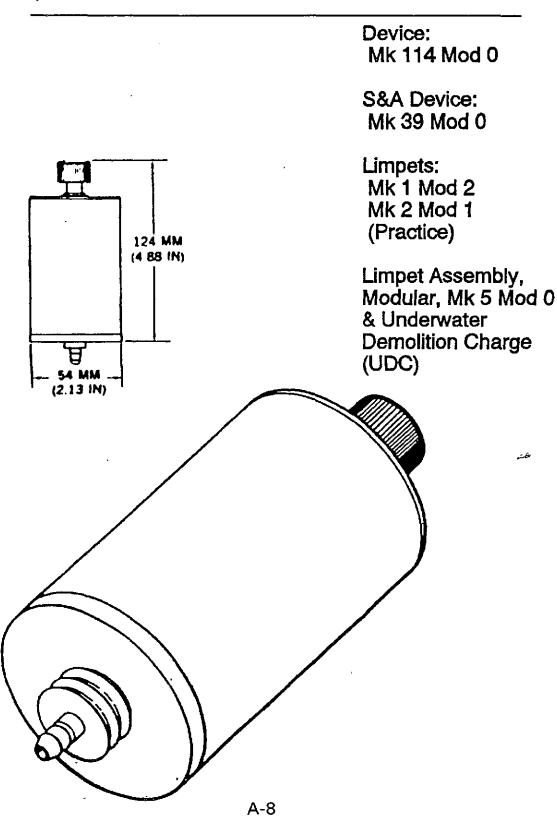


German Fuze, Clockwork Delay, Tsch MW-60



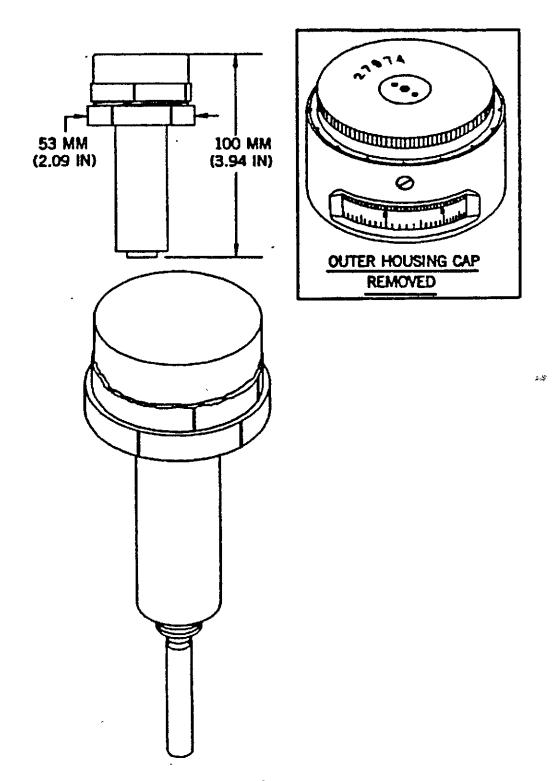
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U.S. Demolition Firing Device, Mk 23 Mod 1



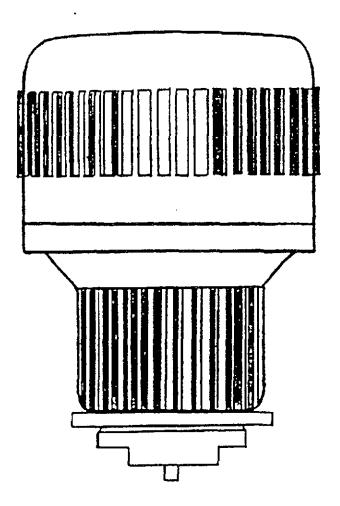


Former U.S.S.R. Fuzes, Clockwork Delay, ChMV-10 & ChMV-16



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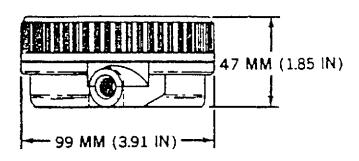
Former Yugoslav Firing Device, Clockwork Delay, Model SU-10 M66/1

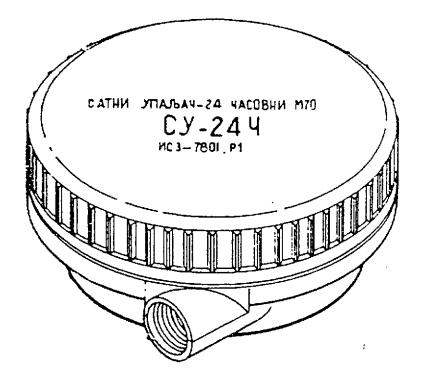


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Former Yugoslav Firing Device, Clockwork Delay, Model SU24Ch M70





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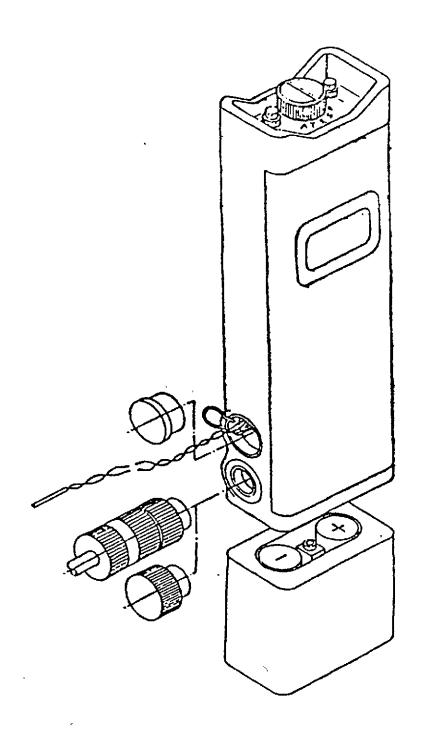
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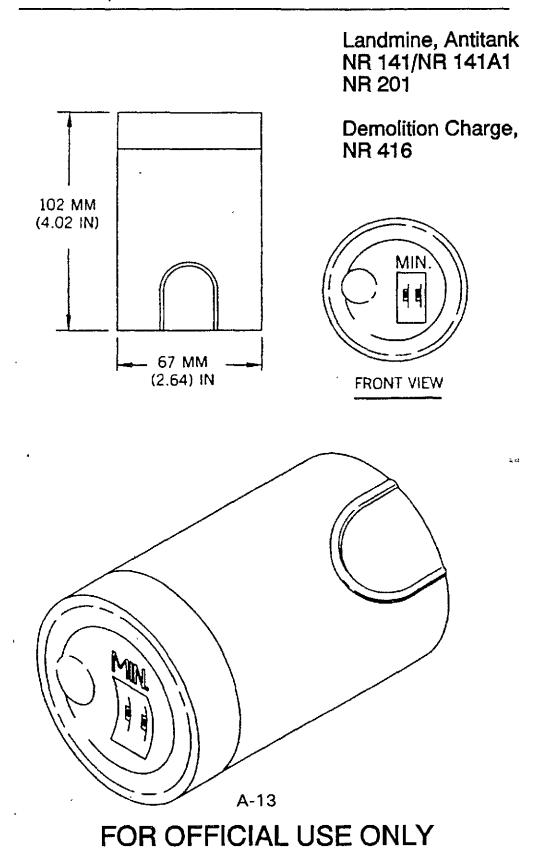


Australian Timer, Electronic, Model EXDET



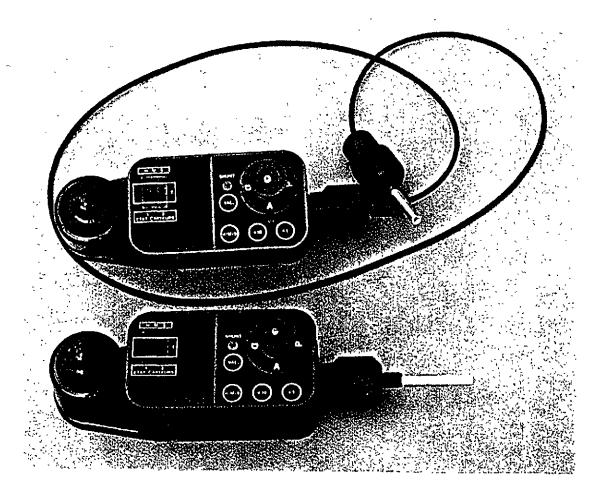
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Belgian Firing Devices, Electronic, NR 2121, NR 2122, and NR 2438



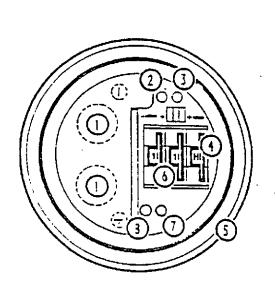


French Firing Device, Breakwire, Electronic Delay Model ITS-110

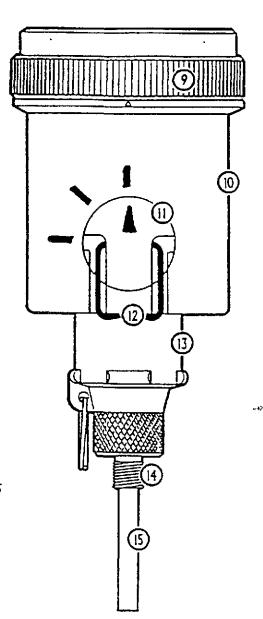


The ITS-110 can be used as both an electronic delay timer and/or as a breakwire-initiated boobytrap device.

French Fuze, Electronic Time, Model TEMPO

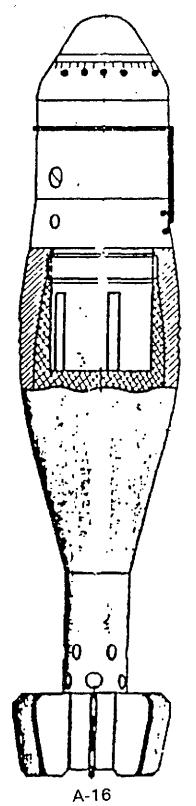


- 1. 2 lithium batteries
- 2. Transmitting phototransister
- 3. Receiving phototransistor
- 4. 1 thumb-wheel for time base
- 5. Allusive face
- 6. 2 thumb-wheel for setting units and tens (00 99)
- 7. Red lamp (output pulse)
- 8. Green lamp (safety time)
- 9. Transparent cover
- 10. Body
- 11. Switch head
- 12. U-shaped arming key
- 13. Connector detonator
- 14. Connector thread M 10 x 1
- 15. Detonator

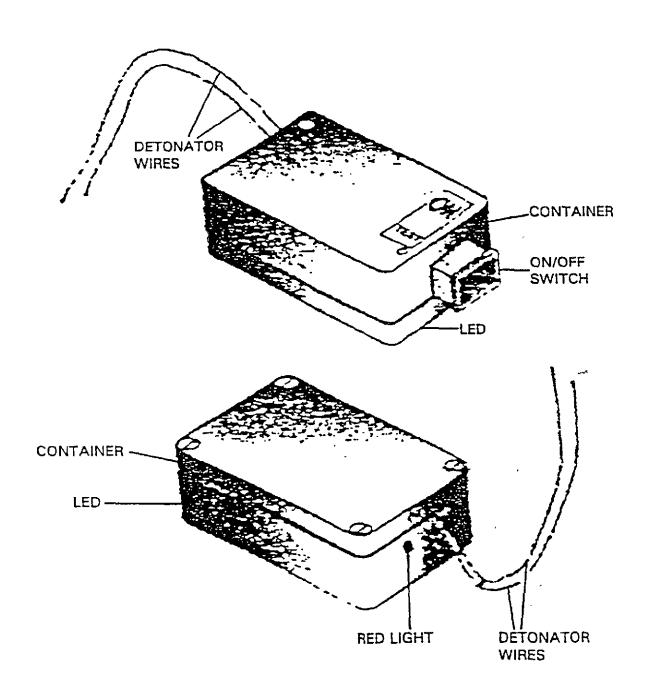




Israeli Fuze, Mortar, Delayed Action, Model Coral



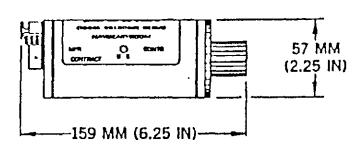
South African Timer, Electronic, Model Unknown



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U.S. Firing Device, Mk 48 Mod 0

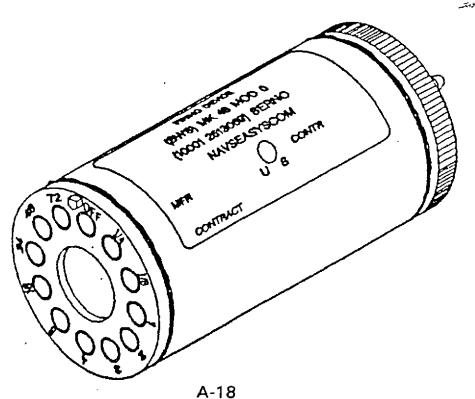


Adapter Firing Device: Mk 114 Mod 0

S&A Device: Mk 39 Mod 0

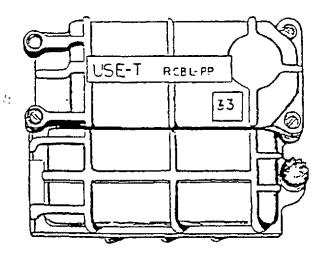
Limpets: Mk1 Mod2 Mk 2 Mod 1 (Practice)

Limpet Assembly, Modular, Mk5 Mod 0 & Underwater Demolition charge (UDC) Mk 122 Mod 0



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Former Yugoslav Fuze, Time, Special, Electronic USE-T



Purpose

The fuze is intended for assembly in mines and explosive devices activated within certain time.

Technical Data

The fuze time setting ranges from 5 minutes to 9999 minutes at the rate of 1 minute.

The fuze time arming is 300 s.

The fuze is power supplied from a battery. Maximum power consumption from the battery amounts to 1500 μ Amps.

The fuze operates within the temperature range of 253°K to 323°K (-20°C to +50°C).

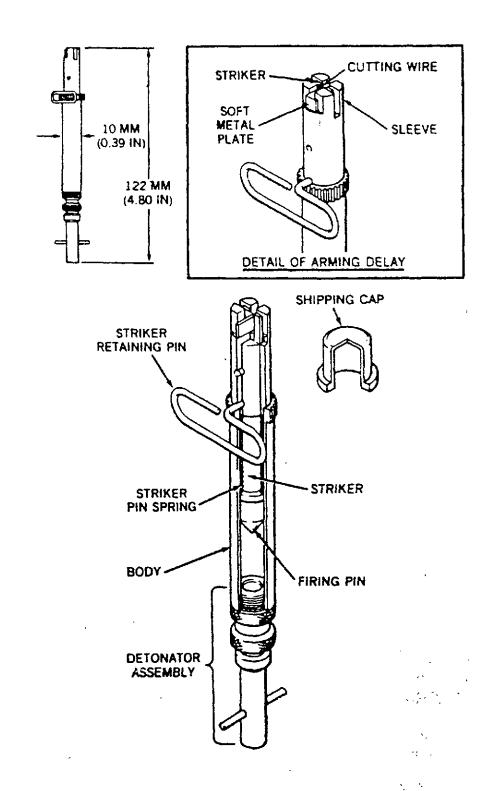
The fuze activates one electric detonating primer.

The fuze dimensions are 93 \times 73 \times 35 mm. The fuze mass is maximum 250 g.

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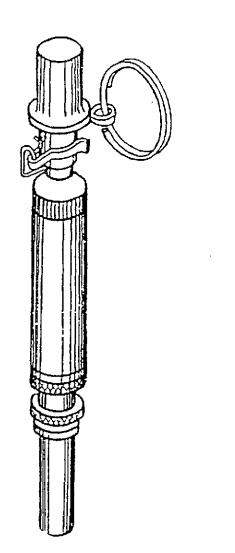


Former U.S.S.R. Mine Fuze, Pull, Delay-Armed/Fired, MUV-2



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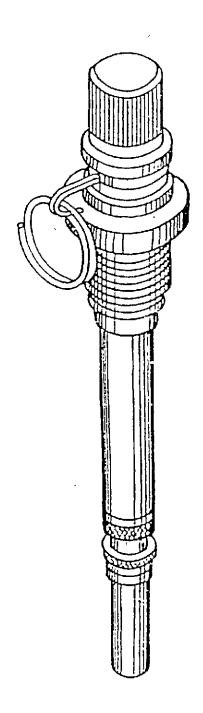


Mines: **OZM-72** POMZ-72 OZM-3 OZM-4 SM(Signal) PMD-6M This fuze can also be used with boobytraps.

This fuze has a silicone dashpot delay feature.

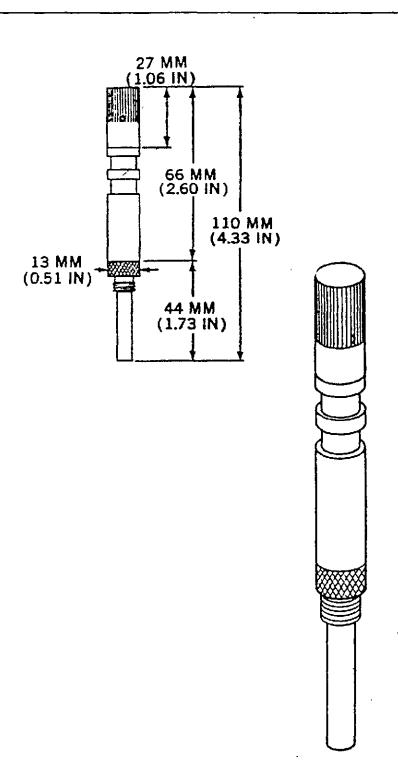


Former U.S.S.R. Mine Fuze, Pull, Delay-Armed, VZD-1M



This fuze is used to initiate demolition charges and limpet mines.

Delay elements used with this fuze include 15, 30 min., 1, 3, 6, 12, and 24 hours.



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ELECTRONIC ANTIDISTURBANCE FIRING DEVICES

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Former Yugoslav Fuze, Special, Acoustic, Superquick, Model USA-T

Purpose

The fuze is intended for assembly in mines and explosive devices activated at a definite sound level.

Technical Data

The fuze can select four sound levels as follows: 90 dB, 100 dB, 110 dB and 120 dB.

The fuze time arming ranges from 270 s to 330 s.

The fuze is power supplied from a battery. Maximum power consumption from the battery is $250 \mu Amps$.

The fuze operates within the temperature range of 253°K to 323°K (-20°C to +50°C).

The fuse activates one electric detonating primer.

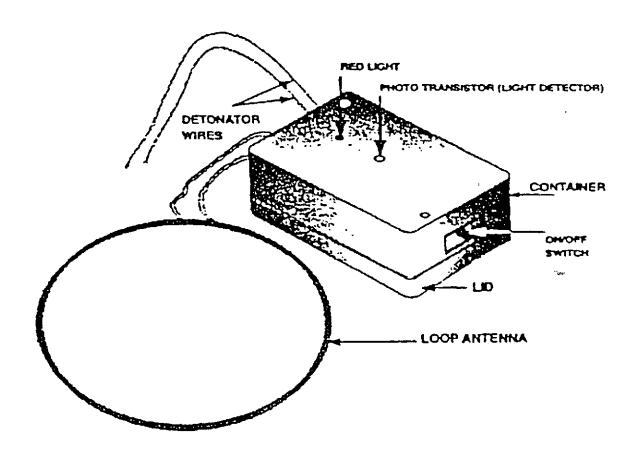
The fuze dimensions are $93 \times 73 \times 35$ mm. The fuze mass is maximum 350 g.

ANTIMINE SWEEPING

Declassified and Approved For Release 2014/03/04: CIA-RDP09-01333R000100010001-2



South African Fuze, Mine, Antimine Sweeping/ Photoelectric, Model Unknown



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BREAKWIRE

Declassified and Approved For Release 2014/03/04 : CIA-RDP09-01333R000100010001-2



Belgian Firing Device, Electronic, Breakwire, NR 2458

1. DESCRIPTION:

An electronic igniting and firing device for any electrically actuated mechanism: antipersonnel, antitank and other types of mines, demolition charges, and incendiary or illuminating devices. This firing device includes three connection sockets and two check indicator lights.

2. OPERATION:

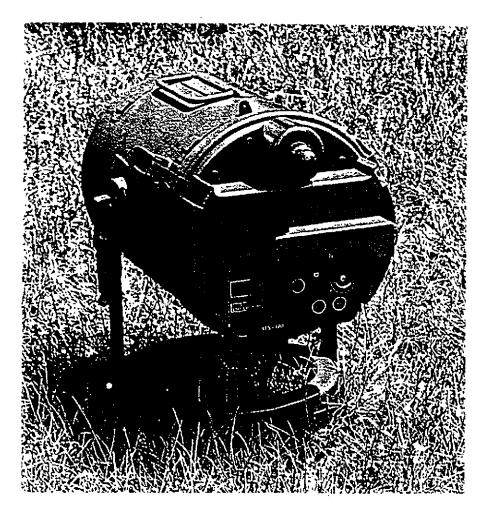
The device is actuated by breaking one of the sensors connected to it (fine wires or any other electrical conductor).

In the case of a fine wire (invisible on the ground):

- 1 connection socket permits a 1,200-meter length of wire to be used
- 2 connection sockets permits two 600-meter lengths of wire to be used
- 3 connection sockets permits three 400-meter lengths of wire to be used

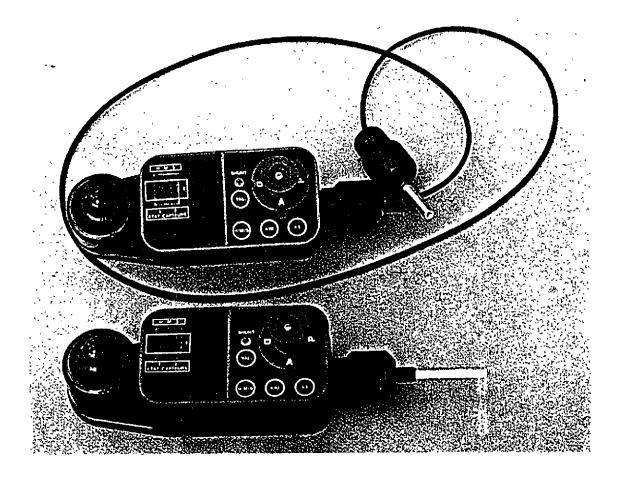
In the case of any other electrical conductor, such as barbed wire, no matter how many sockets are used, there is no length limitation.

French Firing Device, Breakwire, Model ITS-120



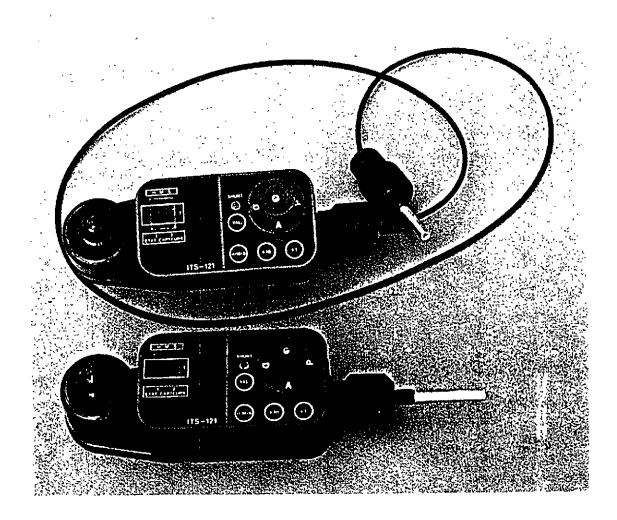
ITS-120 firing device shown mounted to the French MIACAH F1 mine.

French Firing Device, Breakwire, Electronic Delay Model ITS-110



The ITS-110 can be used as both an electronic delay timer and/or as a breakwire-initiated boobytrap device.

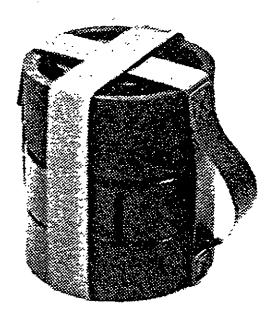
French Firing Device, Breakwire, Model ITS-121



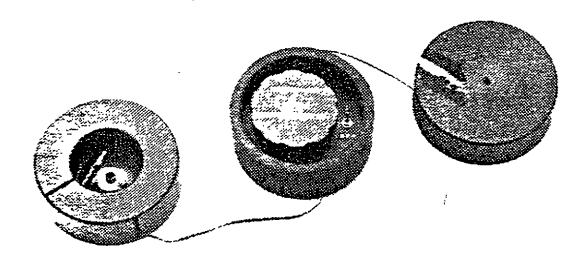
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French Firing Device, Breakwire, Model PIAF



DIMENSIONS: Dia. 120 MM Height 150 MM



The PIAF is noise activated, having a sensor that enables the system to discriminate targets. The breakwire is an optical fiber. In addition, the device can be programmed to self-neutralize after 3, 6, 12, 24, 48, 72, or 96 hours.

B-7

Former Yugoslav Fuze, Electronic, Model UEPž

ELECTRONIC FUZE WITH TRIPWIRE



Applicable as anti- personnel mine or for remote object destroying. The wire of defined tearing- off strength is used as the sensor, and the fuze activation is initiated by its breakage. Wire length can be adjusted to the specific application. Arming is done 20 mintes after pulling the arming key out, and can be also 5 minutes at customer's request.

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After setting-up procedure functioning is tested by an indicator.

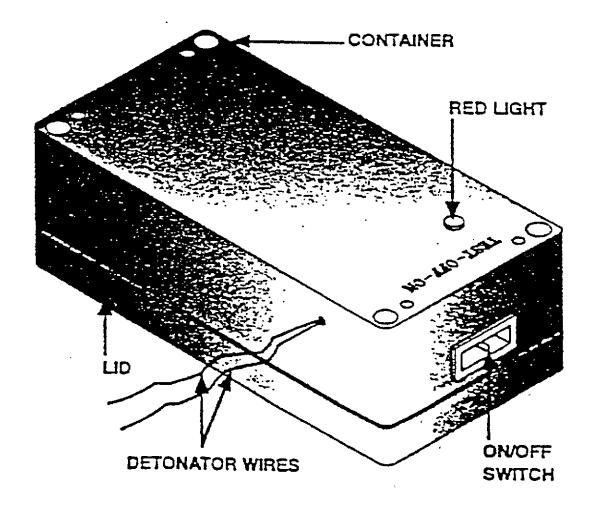
TECHNICAL DATA

Time until arming: 1.200 s (nominal)
Length of tripwire: 100 m (nominal)
Wire interruption fotce: 3 daN
Operating autonomy: 3 months

Declassified and Approved	d For Release 2014/03/04 : CIA-RDP09-01333R000100010001-2	
		ETIC INFLUENCE
•		MAGNET

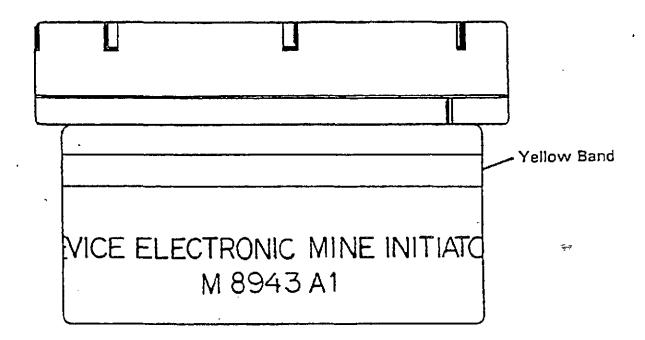


South African Fuze, Mine, Electromagnetic, Model Unknown



B-9

South African Fuze, Mine, Magnetic, Model M8943A1



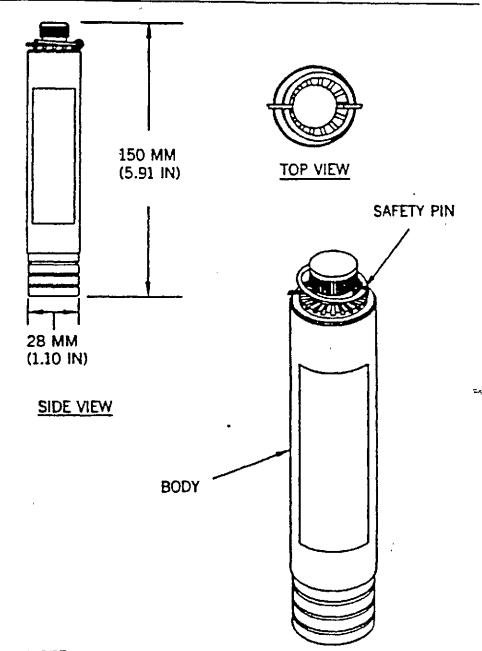
FOR OFFICIAL USE ONLY

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Declassified and Approved For Release 2014/03/04 : CIA-RDP09-01333R000100010001-2



Chinese Mine, Apers, Electronic, Model Unknown



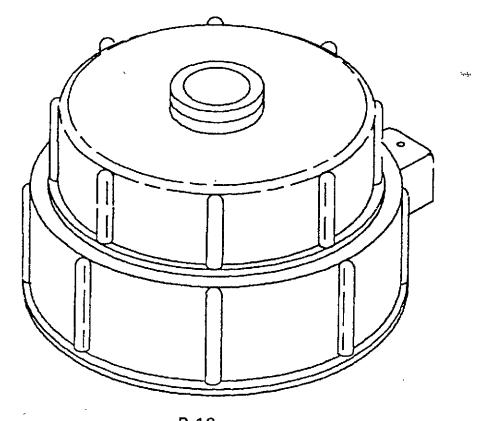
NOTE:

- (1) THIS MINE MAY ALSO BE DEPLOYED AS A BOOBY TRAP.
- (2) THE MINE IS BELIEVED TO BE OLIVE DRAB WITH A TAN BASE AND BLACK MARKINGS.
- (3) THE MINE IS ANTIDISTURBANCE, SELF-DESTRUCT, AND CONTAINS AN ARMING DELAY FROM 3 TO 10 MINUTES.

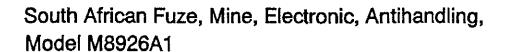
B-11

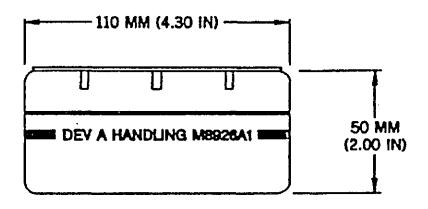
Italian Antilift Device, VS-AR4

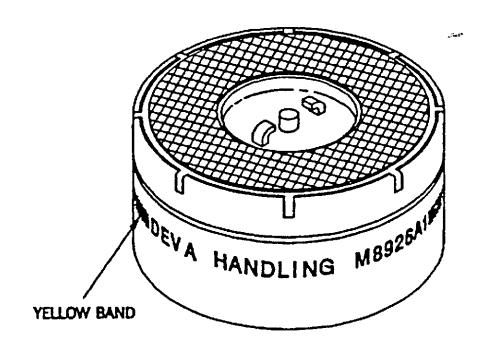
Landmines: VS-2.2 AT VS-50 Apers Valmara Apers VS-1.6 AT



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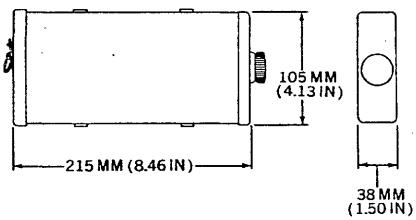




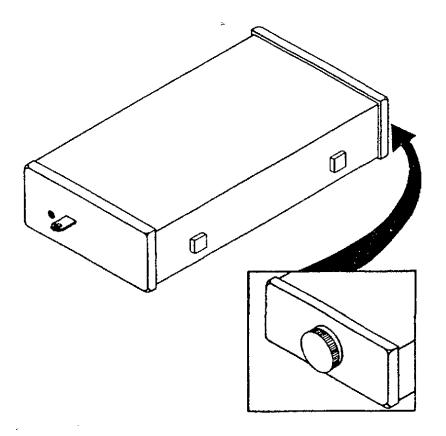


FOR OFFICIAL USE ONLY

Country Unknown Landmine, Apers, Antidisturbance, Model Unknown



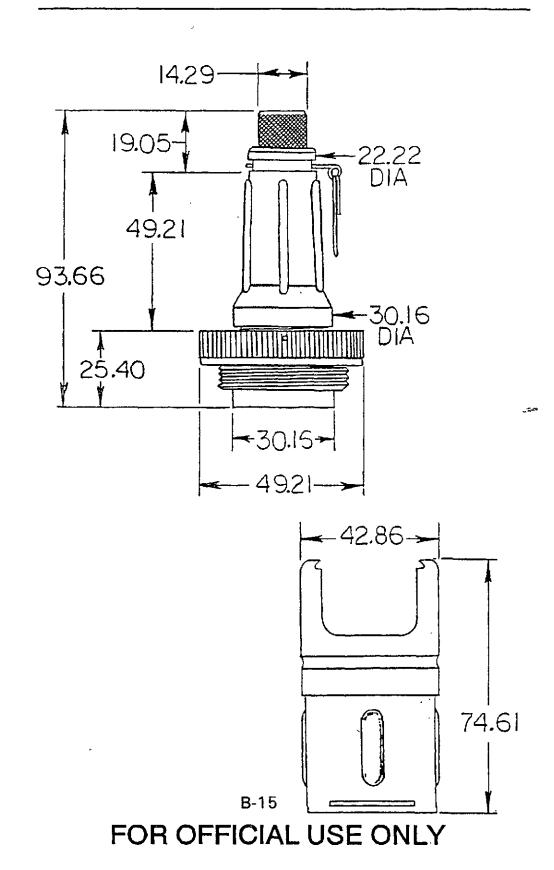
NOTE: DIMENSIONS ARE APPROXIMATE



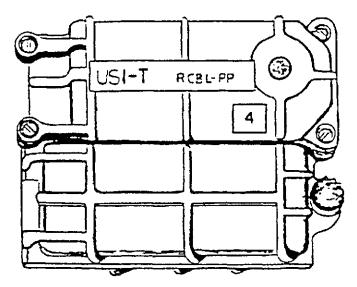
FOR OFFICIAL USE ONLY



Former U.S.S.R. Mine Fuze, Delay, Model Unknown



Former Yugoslav Fuze, Special, Inertia, Superquick, Model USI-T



Purpose

The fuze is intended for assembly in mines and explosive devices activated at certain inertia level.

:44

Technical Data

The fuze is activated at the minimum acceleration ranging from 1 m/s² to 5 m/s².

Time arming of the fuze ranges from 270 to 330 s.

Maximum power consumption from the battery amounts to 10 μ Amps.

The fuze operates within the temperature range of 253°K to 323°K (-20°C to -50°C).

The fuze activates one electric detonating primer.

The fuze dimensions are 93 \times 73 \times 35 mm. The fuze mass is maximum 250 g.

B-16



.....

Former Yugoslav Fuze, Special, Vibrating, Superquick, Model USV-T

Fuze, Special, Vibrating, Superquick

Purpose

The fuze is intended for assembly in mines and explosive devices activated at vibrations of definite acceleration.

Technical Data

The fuze can select four acceleration levels appearing during vibrations as follows: 0.001 m/s²; 0.01 m/s²; 0.1 m/s² and 1 m/s².

The fuze time arming ranges from 270 s to 330 s.

The fuze is power supplied from a 7 V to 9.5 V battery.

Maximum power consumption from the battery is 250 μ Amps.

The fuze operates within the temperature range of 253°K to 323°K (-20°C to +50°C).

The fuze activates one electric detonating primer.

The fuze dimensions are 93 \times 73 \times 35 mm. The fuze mass is maximum 350 g.

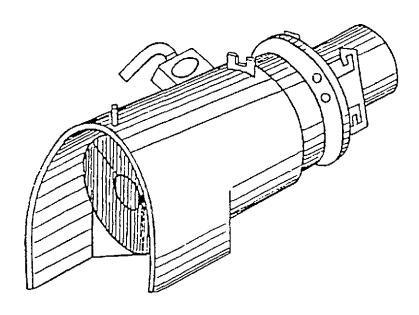
B-17

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Former U.S.S.R. Sensor, Passive IR, Model Unknown

Dimensions: Max Dia. 95 MM Length 240 MM



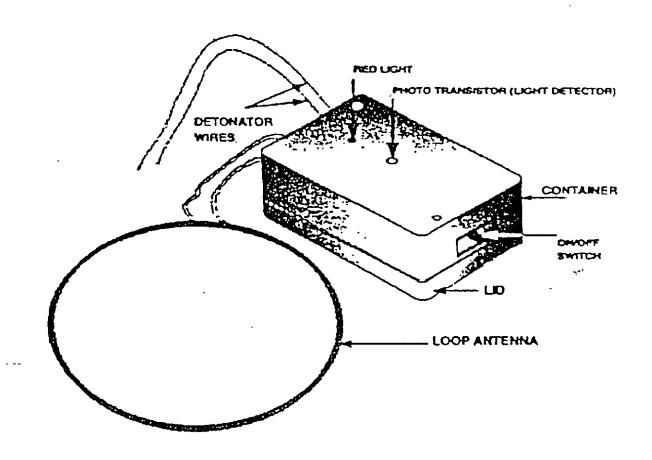
This sensor has a detection range of from 2 to 50 meters.

B-18

Declassified and Approved	d For Release 2014/03/04 : CIA-RDP09-01333R000100010001-2	
		PHOTOELECTRIC
		PHOT

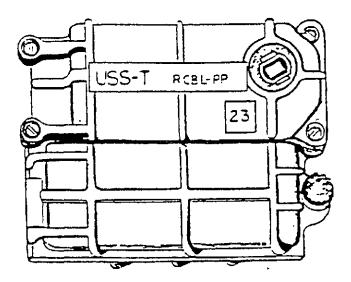


South African Fuze, Mine, Antimine Sweeping/ Photoelectric, Model Unknown



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Former Yugoslav Fuze, Instantaneous, Special, Light, Model USS-T



Purpose

The fuze is intended for assembly in mines and explosive devices activated when illuminated to certain level.

Technical Data

The fuze is activated when illuminated by 2Lx to 7Lx, min.

The fuze time arming ranges from 270 s to 330 s.

The fuze is power supplied from a battery.

Maximum power consumption from the battery amounts to 10 μ Amps.

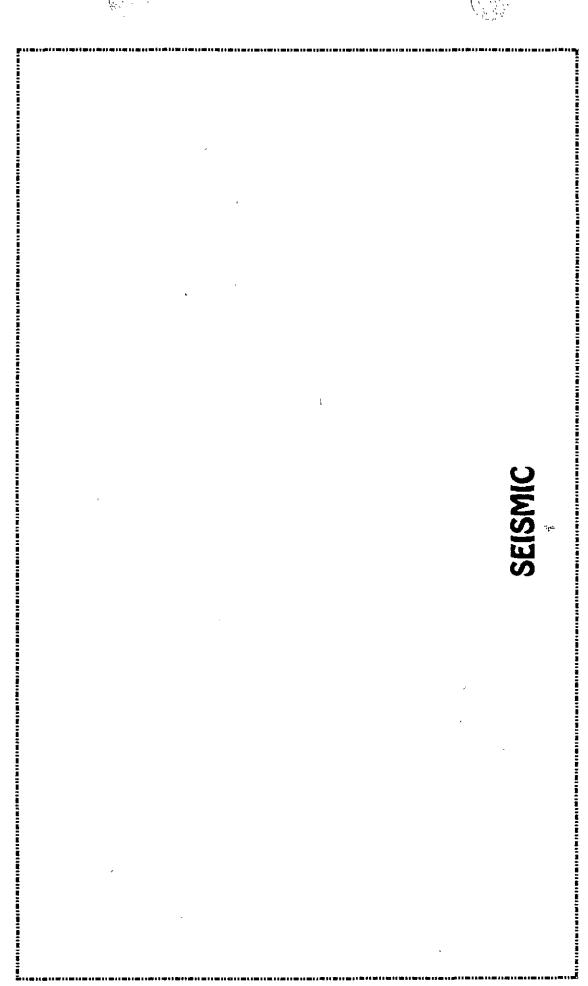
The fuze operates within the temperature range of 253°K to 323°K (-20° C to $\pm 50^{\circ}$ C).

The fuze activates one electric detonating pamer.

The fuze dimensions are $93 \times 73 \times 35$ mm.

The fuze mass is maximum 250 g.

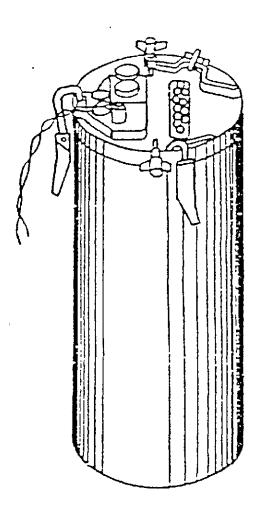
B-20



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Former U.S.S.R Mine Control Device, NVU-P

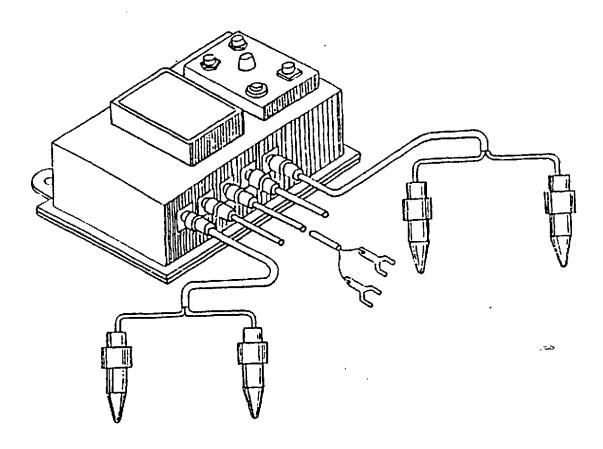
Dimensions: Dia. 125 MM Height 270 MM



This device is used for the successive detonation of 5 antipersonnel mines, such as the OZM-72 or type MON-50. It uses seismic sensors to detect targets.

B-21

Former U.S.S.R Seismic Sensor Control Device, Model Unknown

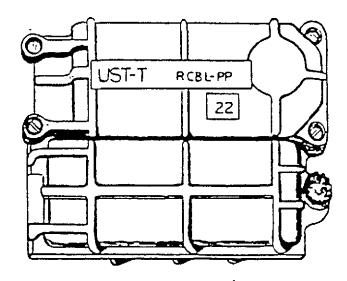


This device has a maximum detection range of 200 meters long by 5 meters wide. The false alarm rate is reported to be not more than 1 per 500 hours of operation.

B-22



Former Yugoslav Fuze, Instantaneous, Special, Thermal, Model UST-T



Purpose

The fuze is intended for assembly in mines and explosive devices activated at certain temperature.

Technical Data

The fuze is activated; at the minumum temperature of 213°K to 343°K (-60°C to +70°C).

The fuze time arming is 270 s to 330 s.

The fuze is power supplied from a battery. Maximum power consumption from the battery is 30 µAmps.

The fuze operates within the temperature range 213°K to 343°K (-60°C to +70°C).

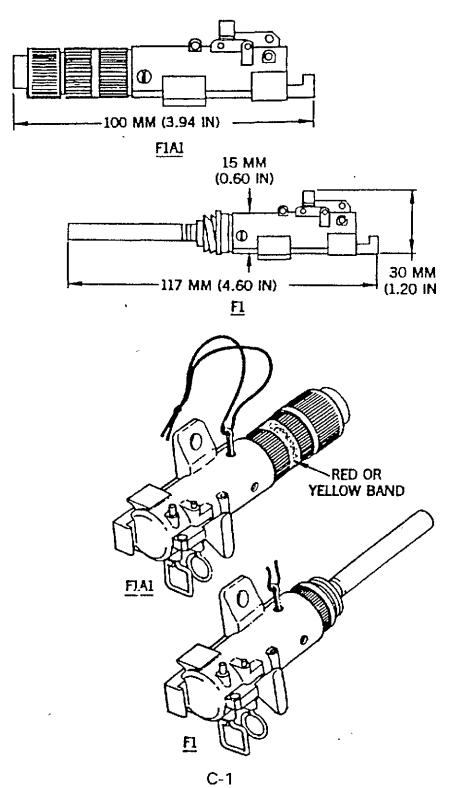
The fuze activates one electric detonating primer.

The fuze dimensions are $93 \times 73 \times 35$ mm. The fuze mass is maximum 250 g.

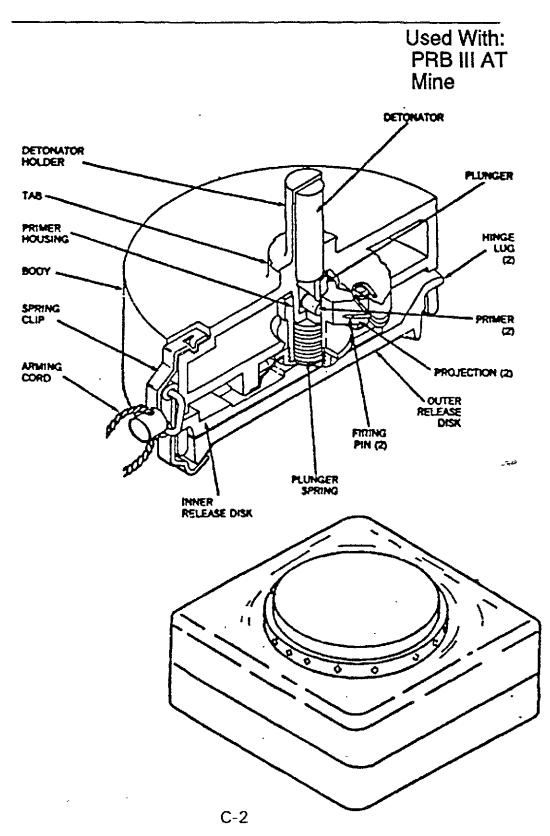
B-23

MECHANICAL ANTILIFT FIRING DEVICES

Australian Firing Devices, Combination, F1 & F1A1



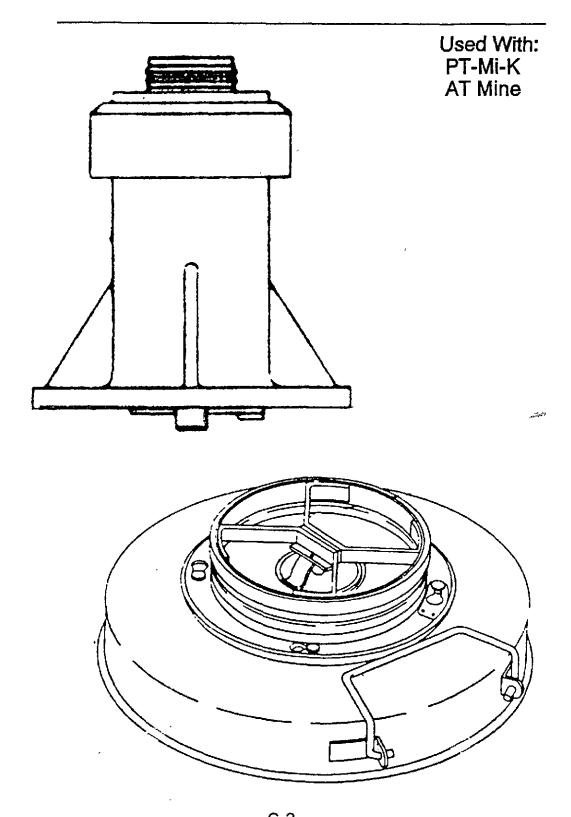
Belgian Antilift Device, Model Unknown



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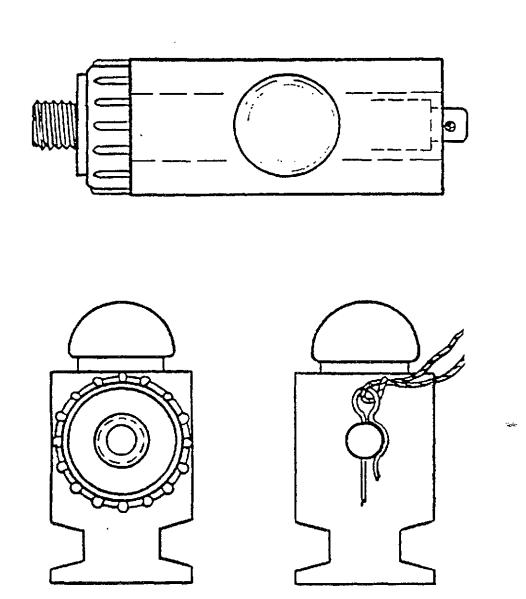


Former Czech Firing Device, Antilift, Model RO-3



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Former Czech Firing Device, Antilift, Model RO-4



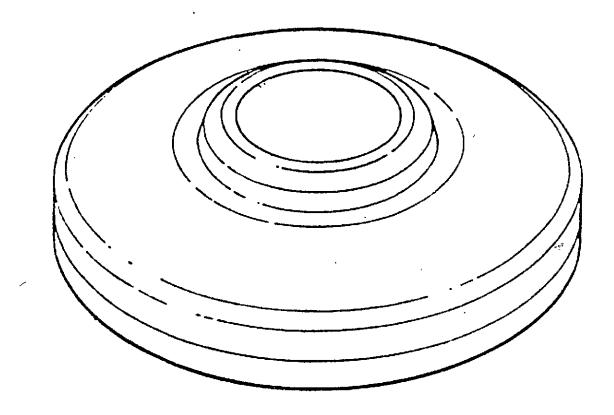
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Former Czech Fuze, Antiremoval, Model RO-7 III

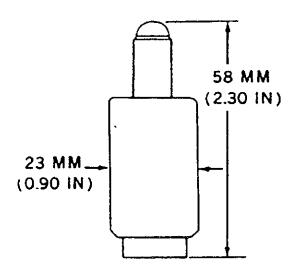
Used With: PT-Mi-Ba AT Mine



This fuze functions similar to the RO-7 and RO-7 II fuzes. The functioning of the antidisturbance feature is unknown.

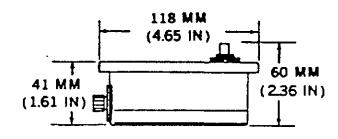
C-5

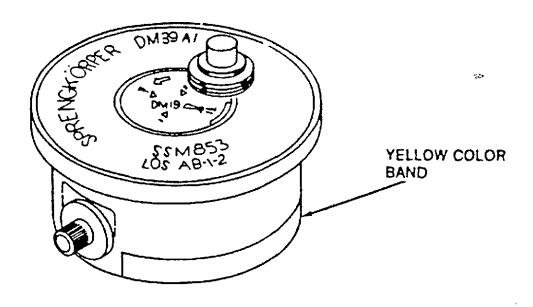
French Landmine Fuze, Antidisturbance, Model 1952

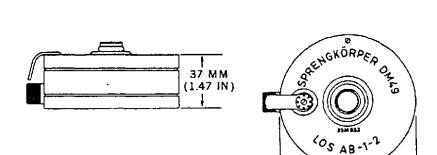




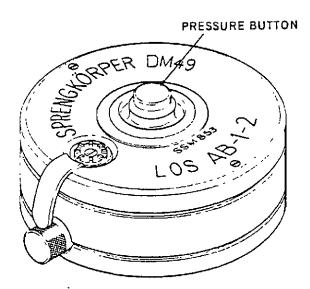
German Landmine Antilift Device, DM39A1







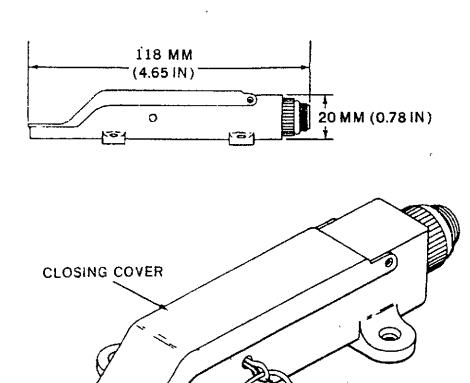
_ 90 MM _ (3.56 IN)



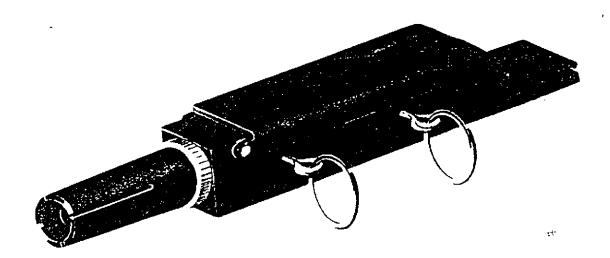


SAFETY PIN

Israeli Firing Device, Demolition, Pressure Release, No. 9

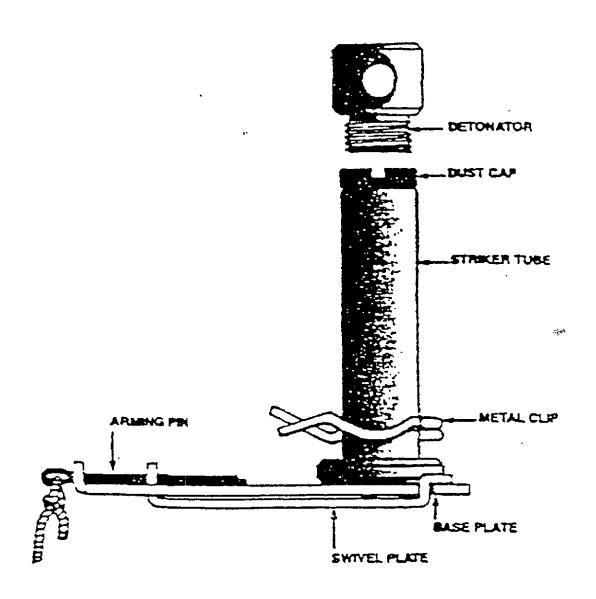


Netherlands Firing Device, Pressure Release, No. 18C1/2C1



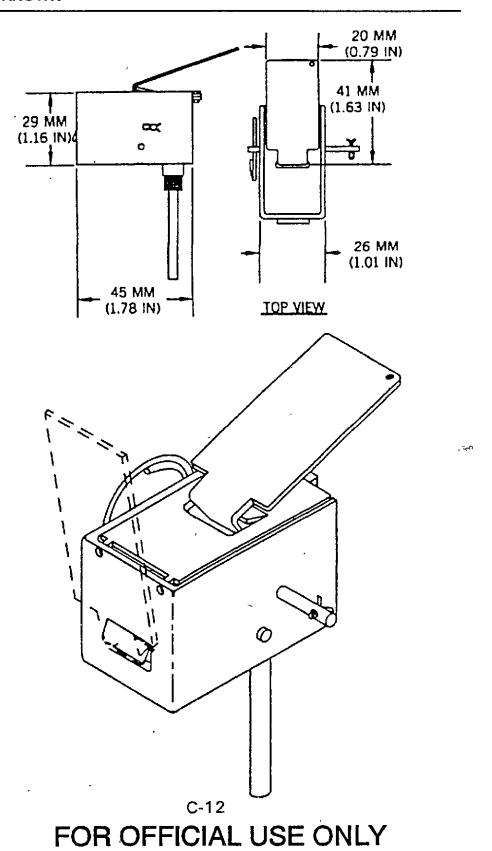


South African Fuze, Mine, Pressure Release, Model Unknown



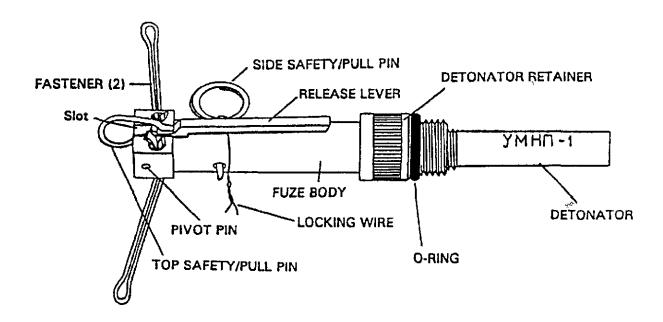
FOR OFFICIAL USE ONLY

Spanish Firing Device, Pressure Release, Model Unknown



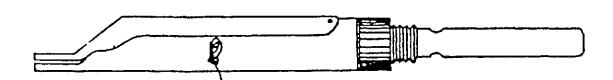


Former Yugoslav Firing Device, Multipurpose, Model UMNOP-1



This firing device functions under the forces of pressure, pressure release, axial pull and radial pull.

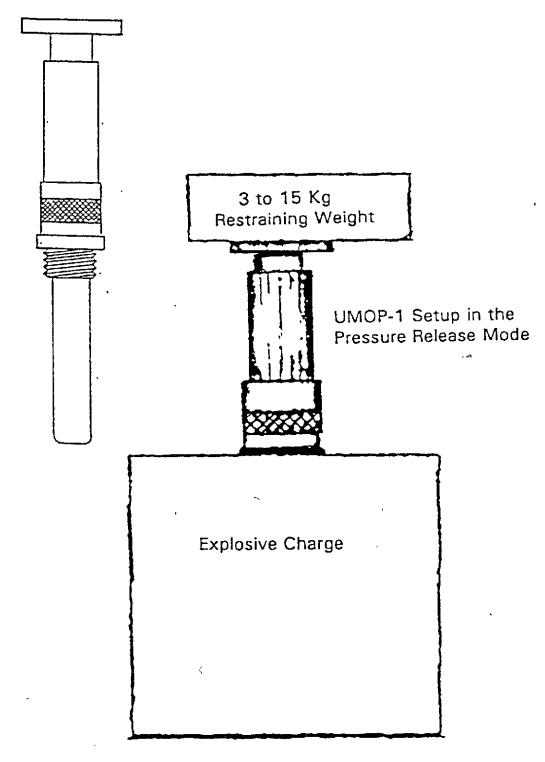
Former Yugoslav Firing Device, Pressure Release, Pull, Model UDOP-1



C-14
FOR OFFICIAL USE ONLY



Former Yugoslav Firing Device, Pressure Release, Pull, Model UMOP-1



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REMOTE CONTROL FIRING DEVICES



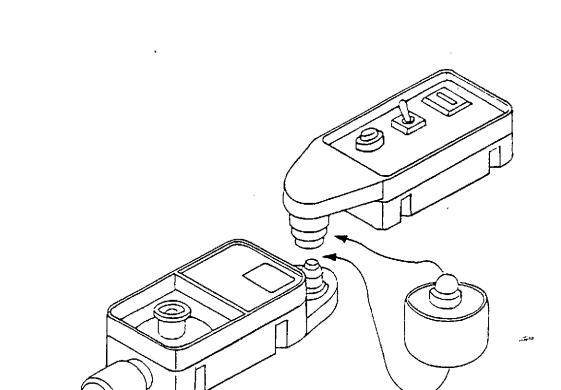
Chinese Radio Control System, Type 82

Remote Control Transmitter Type 82

- 1. Transmitting power: Pulse power more than 15 watts
- 2. Power supply: DC, 25 volts (storage battery can be recharged)
- 3. Antenna type: 2.7-meter whip antenna (at top)
- 4. Weight: 9 kg
- 5. Dimensions: 235 mm x 290 mm x 115 mm

Remote Control Receiver, Type 82

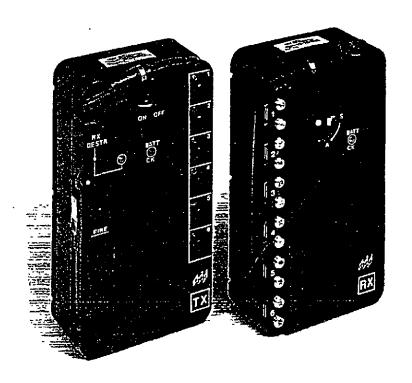
- 1. Sensitivity: not worse than $50\mu\text{V/M}$ (S/N \geq 3)
- 2. Medium frequency resistant ratio: not less than 80 dB
- 3. Image frequency resistant ratio: not less than 80 dB
- 4. Power: DC, 6 volts (model LR20 high energy battery)
- 5. Power supply type: intermittence
- 6. Weight: 2.5 kg
- 7. Dimensions: 230 mm x 95 mm x 100 mm
- With power in the unit, it is possible to operate normally for 10 days.
- Connected with 100 meters of engineer wire, it is possible to explode the #8 electric detonator, 20 in series or 2 in parallel at the same time.



D-2 FOR OFFICIAL USE ONLY



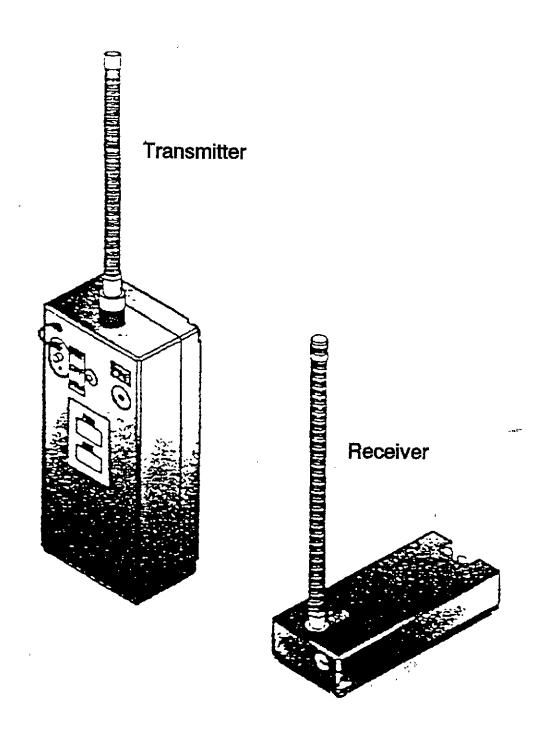
Italian Firing Device, Radio Control, Model VS-TE-R82



TECHNICAL DATA

Reference code:	VS-TE-R82
Carrier Frequency:	factory-selectable between 65 and 88 MHz.
Modulation:	Tone-code FM modulation
Possible Code Combination	ns: 10 ⁶
Power Supply:	Lithium or rechargeable Ni-Cd power pack.
Operational life; (with lithium batteries)	transmitter - 3600 firings receiver - 3600 firings or, alternatively, one firing after 15 days of permanent switching "ON".
Arming Delay:	The receiver is provided with a mechanical safety device which powers the firing circuits 10 minutes after committing to arm
Fire Voltage:	12 VDC
Max Fire Current:	3.5 A
Dimensions (each unit):	245 x 135 x 75 mm.
Weight (with lithium power pack):	Each unit: 3.3 kg
Temperature limits:	for firing: -32°C to +60°C for storage: -40°C to +70°C

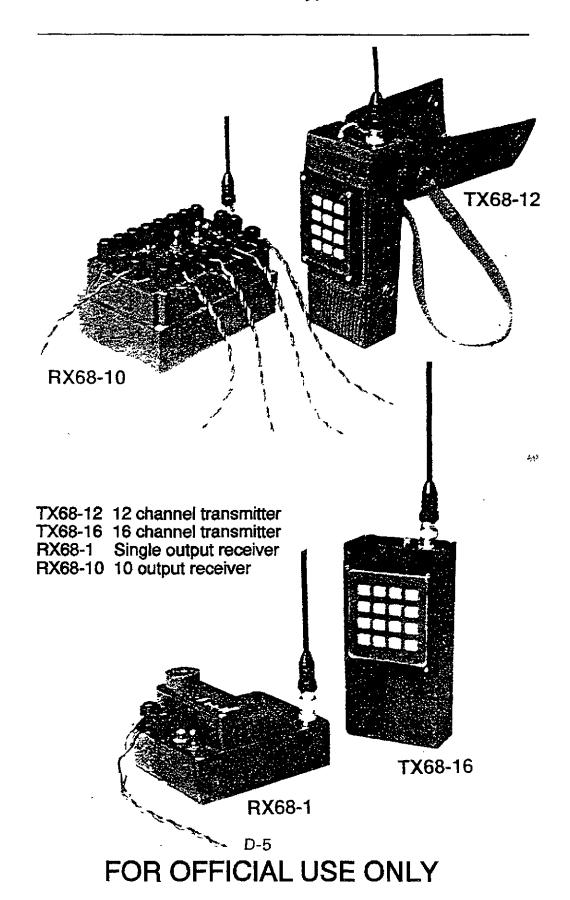
South African Firing Device, Radio Control, Model Unknown

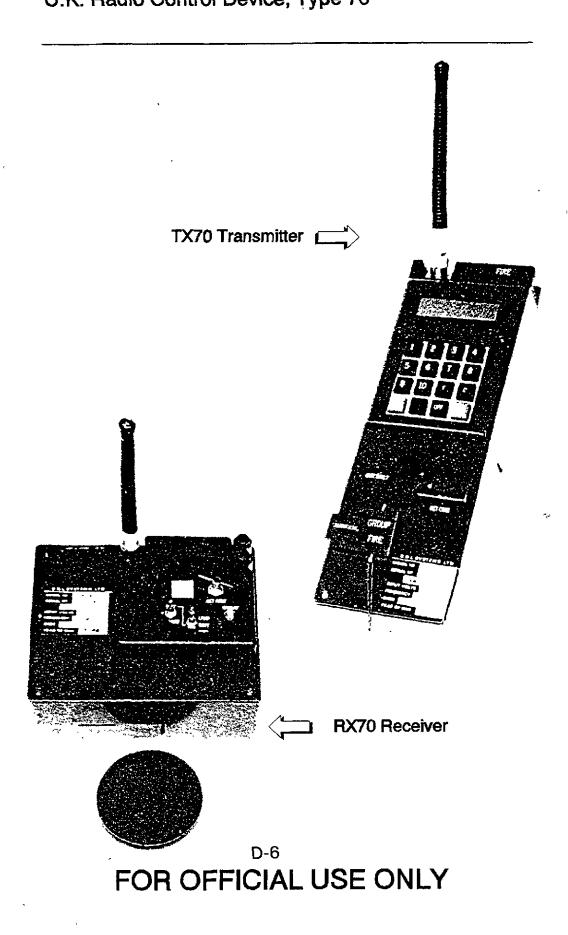


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U.K. Radio Control Device, Type 68



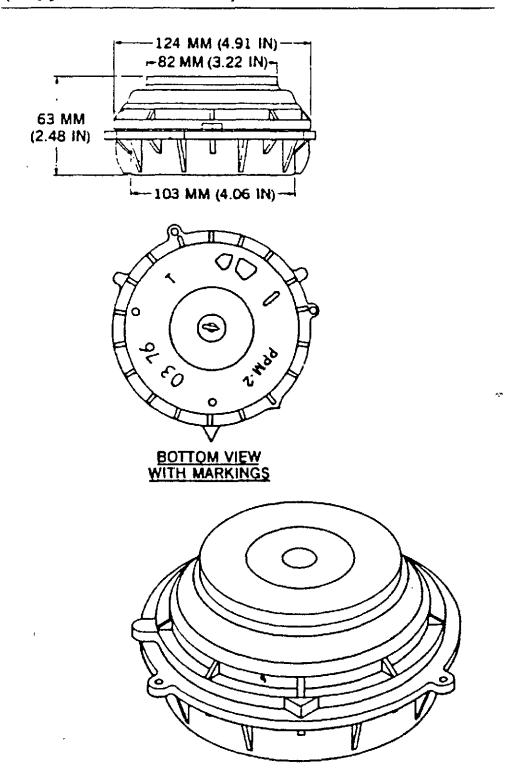


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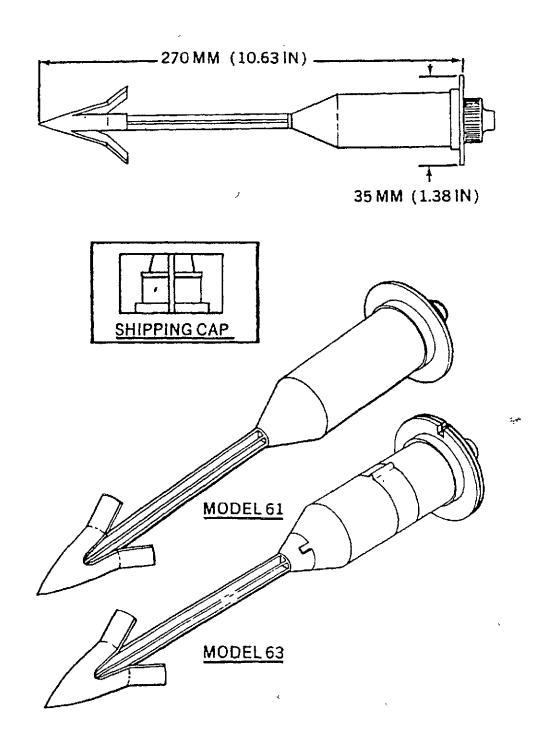
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Chinese Landmine, Apers, Boobytrap, Model Unknown (Copy of German PPM-2)



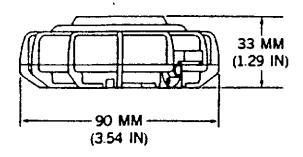
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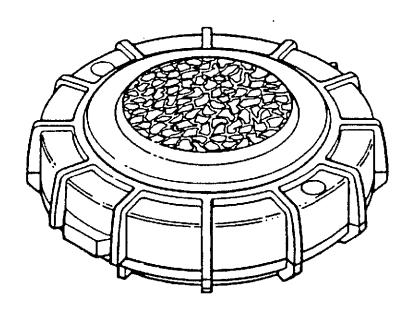


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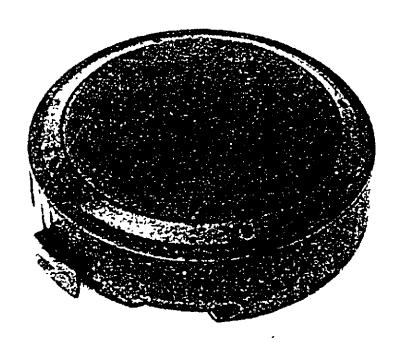


Italian Landmines, Apers, Models VS-MK2 and VS-MK2 AR-AN





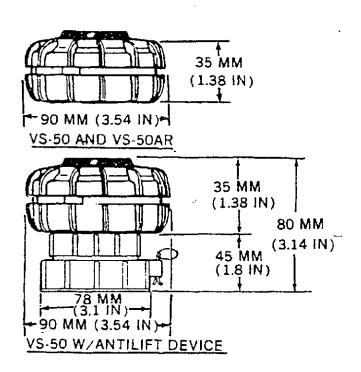
Italian Landmine, Apers, Model VS-MK2-EL

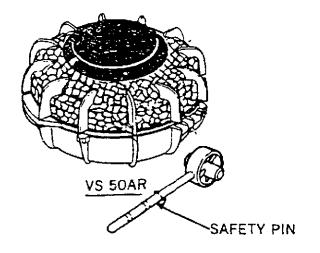


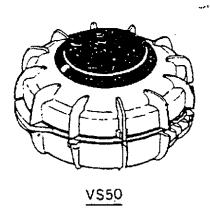
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Italian Landmines, Apers, VS 50 and VS 50 AR







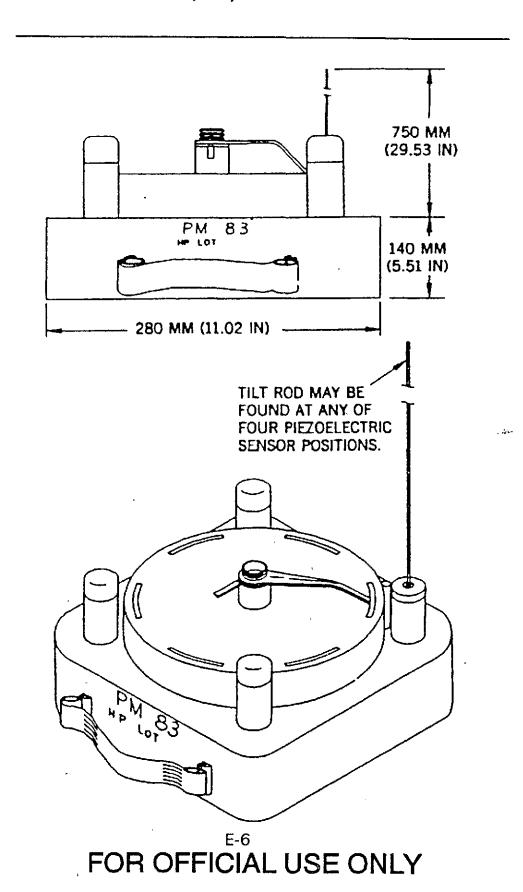
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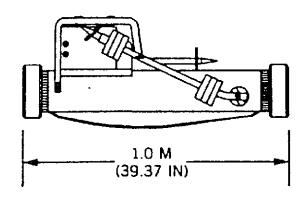
Declassified and Approved For Release 2014/03/04 : CIA-RDP09-01333R000100010001-2

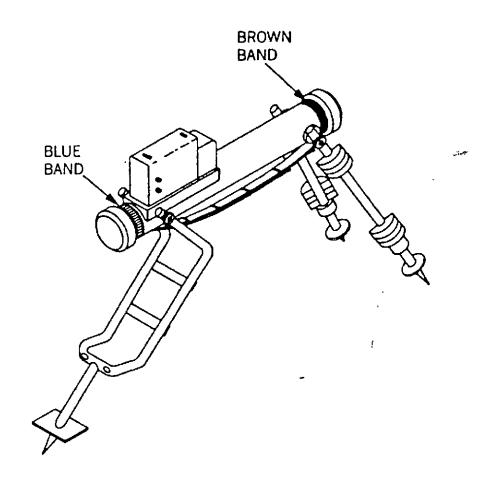


Austrian Landmine, AT, PM 83



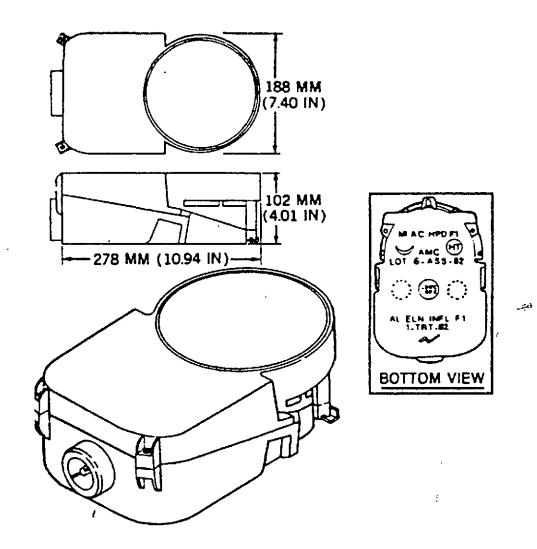
French Landmine, AT, APILAS-Mine





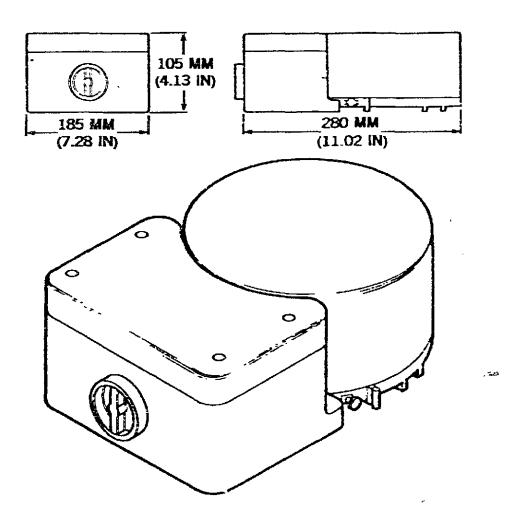
FOR OFFICIAL USE ONLY

French Landmine, AT, HPD-F1



UNCLASSIFIED

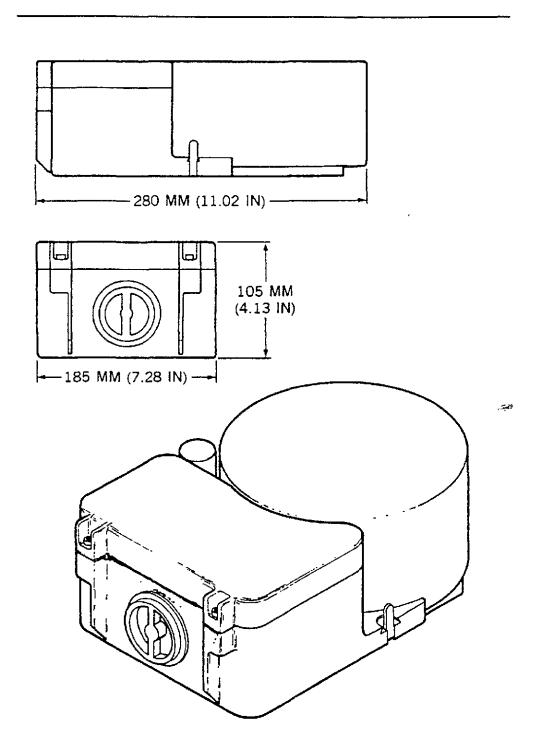
French Landmine, AT, HPD-F2



NOTE: THE MINE IS SELF-NEUTRALIZING AND ANTIDISTURBANCE.



French Landmine, AT, HPD-1A

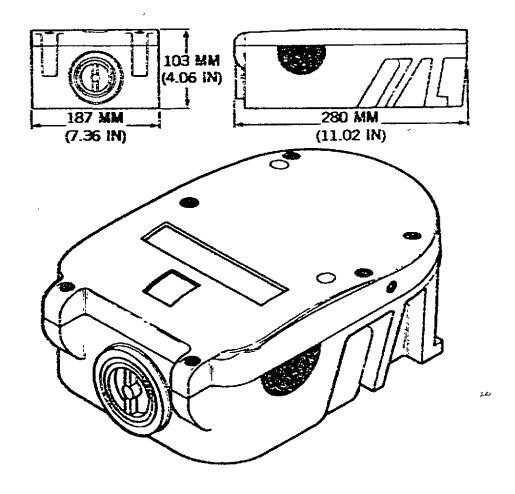


NOTES: (1) THE MINE IS SELF-NEUTRALIZING AND ANTI-DISTURBANCE.

(2) THE MINE HAS A MAGNETIC SENSOR.

E-10

French Landmine, AT, HPD-3

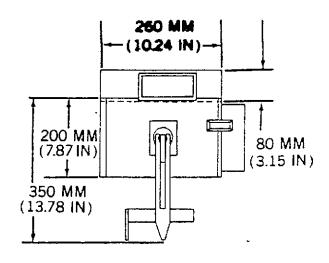


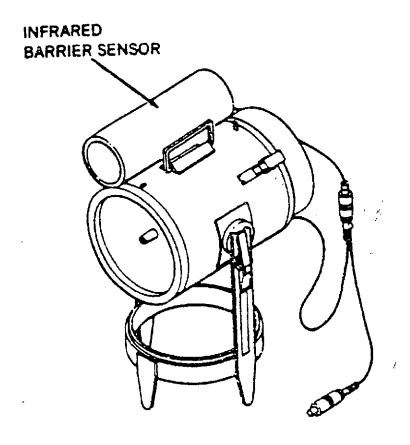
NOTES: (1) THERE ARE TWO MODELS OF THIS MINE. ONE CONTAINS 2.4 KILOGRAMS (5.3 POUNDS) OF UNKNOWN EXPLOSIVE, AND THE OTHER CONTAINS 1.4 KILOGRAMS (3.1 POUNDS) OF UNKNOWN EXPLOSIVE.

(2) THE MINES ARE SELF-NEUTRALIZING AND ANTI-DISTURBANCE. BOTH MINES HAVE SEISMIC AND MAGNETIC SENSORS.



French Landmine, AT, Off-Route, IRMAH Type F1

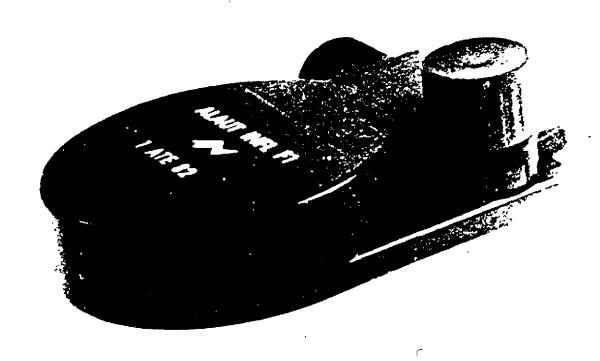




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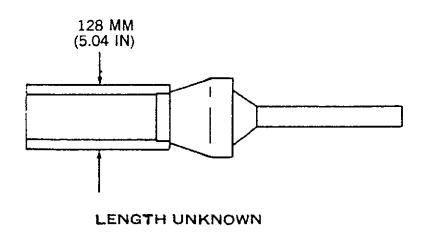
French Mine Fuze, Seismic, Magnetic-Influence, ALAUT INFL F1

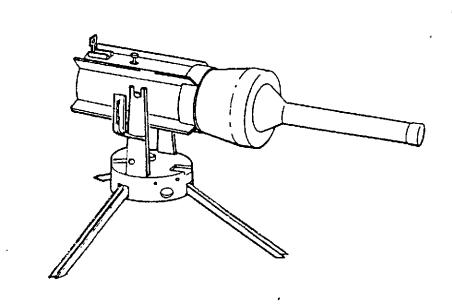


This mine becomes active upon receiving a seismic signature. It is magnetic-influence fired.



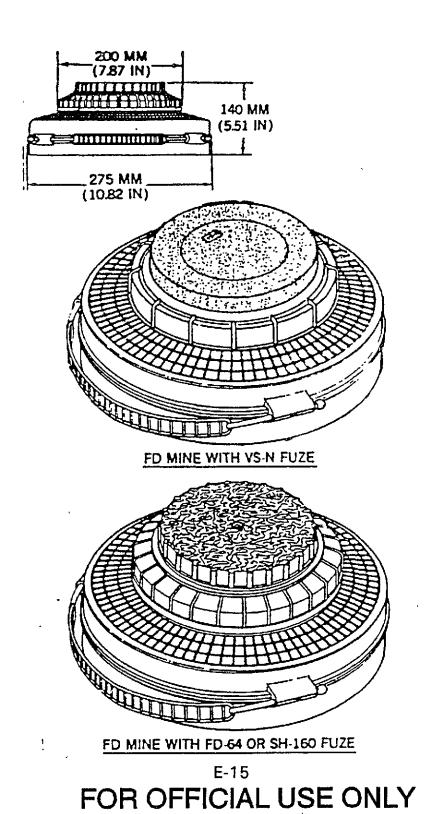
German Landmine, AT, Off-Route, PARM 1



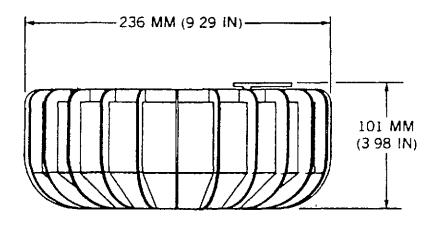


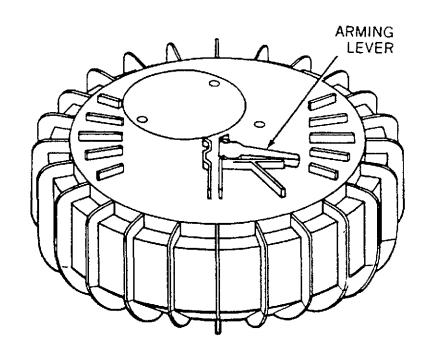
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Italian Landmines, AT, Models FD and SH-55

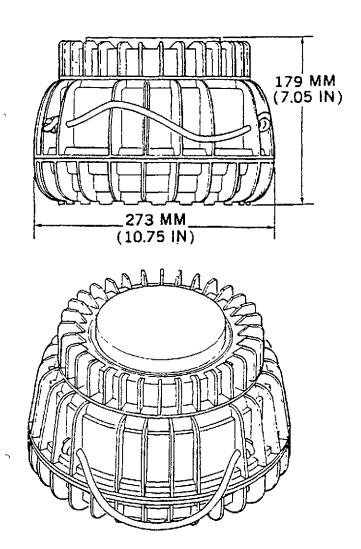


Italian Landmines, AT, SB-MV and SB-MV/AR

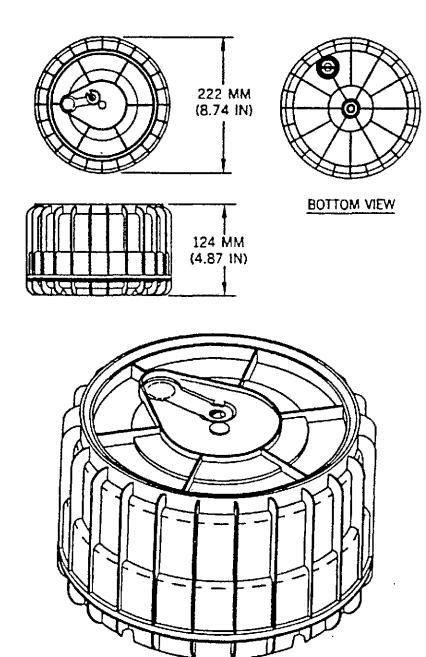




Italian Landmine, AT, TCE-6

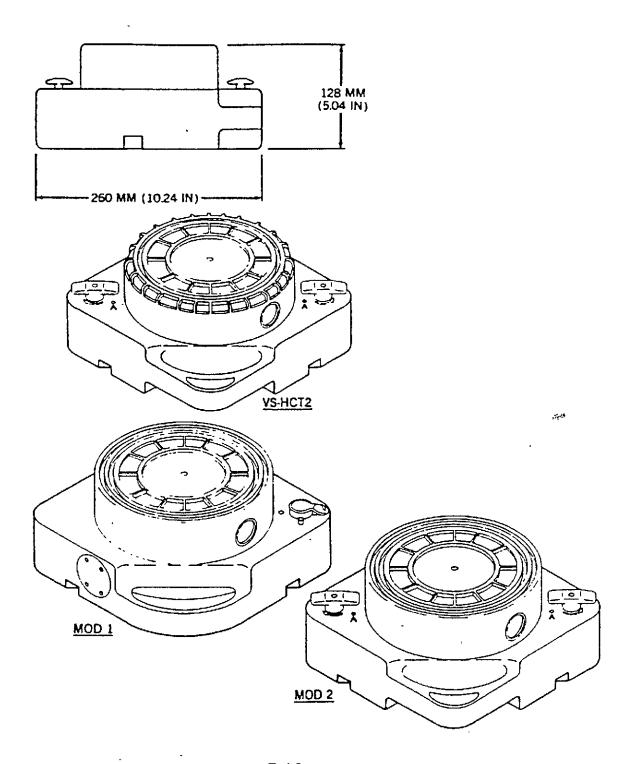


Italian Landmine, AT, VS-HCT



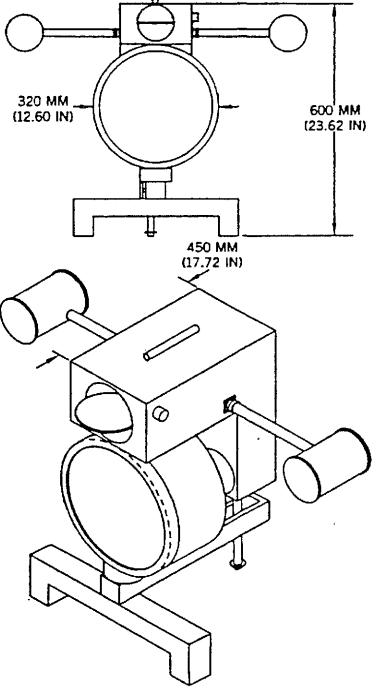
Wait 192 days to approach; do not approach with ferrous metal; do not disturb.

Italian Landmine, AT, VS-HCT2



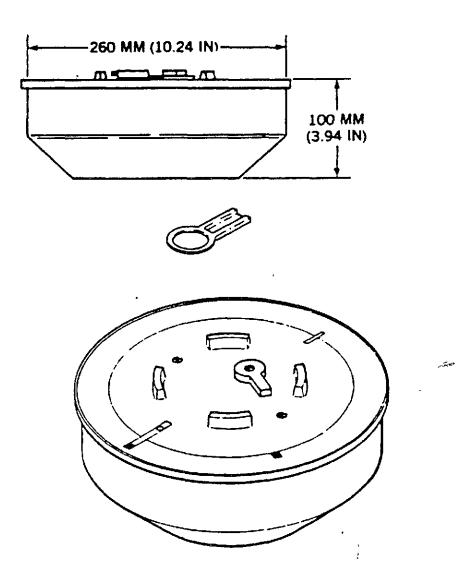
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South African Landmine, AT, Off-Route, Model Unknown



NOTE: LANDMINE MAY CONTAIN AN ANTIDISTURBANCE MECHANISM. E-20

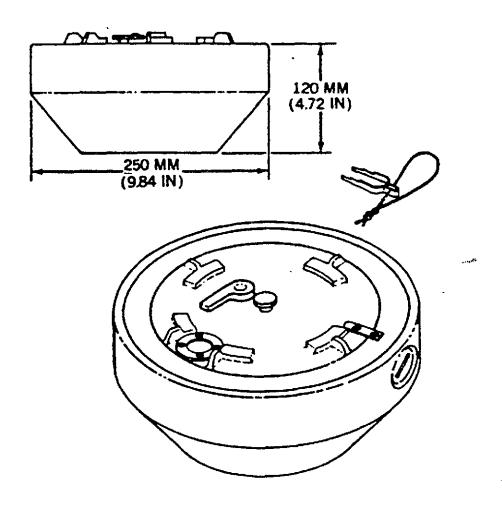
Swedish Landmines, AT, FFV 028, FFV 028 RU, and FFV 028 SD



Wait 45 days to approach; do not approach with ferrous metal; do not disturb.



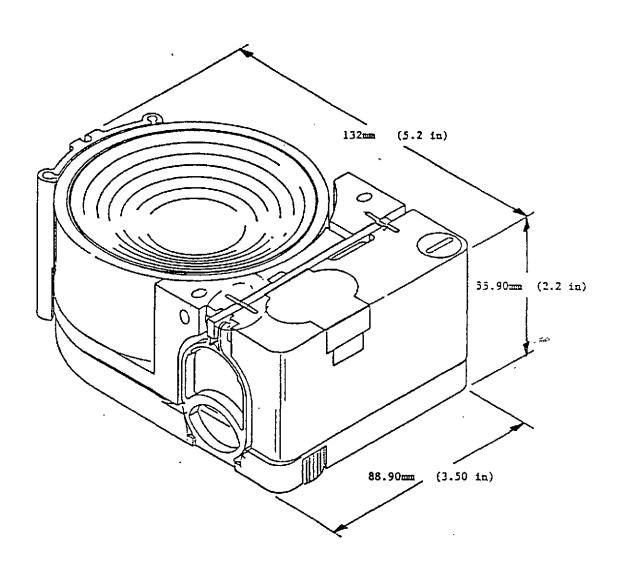
Swedish Landmine, AT, FFV 028 SN



Wait 225 days to approach; do not approach with ferrous metal; do not disturb.

E-22

U.S. Landmine, AT/AV, Selectable, Lightweight, Model XM2

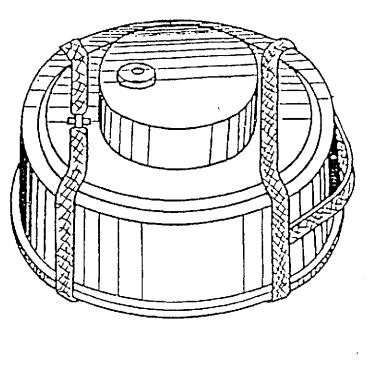


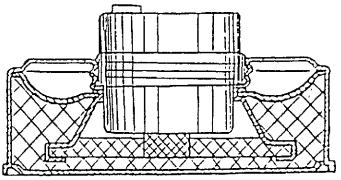
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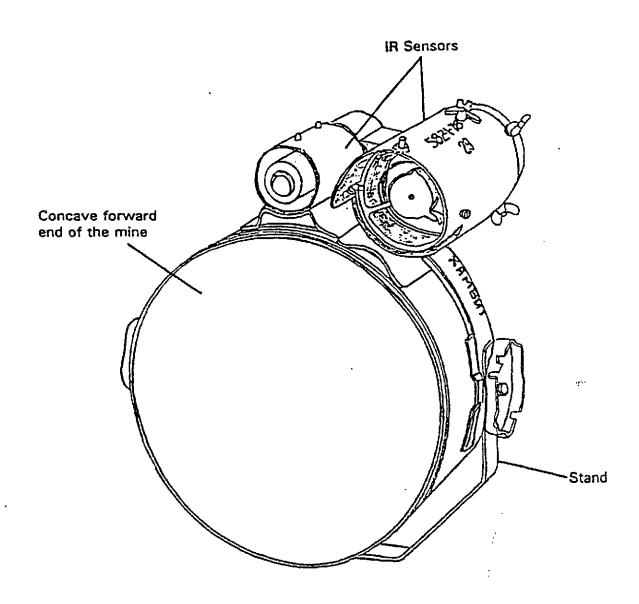
Former U.S.S.R. Landmine, AT, Magnetic-influence, TM-72

DIMENSIONS: Dia. 250 MM Height 128 MM





Former U.S.S.R. Landmine, AT, Off-Route, Model TM-83



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Mines Used With: TM-62 Series

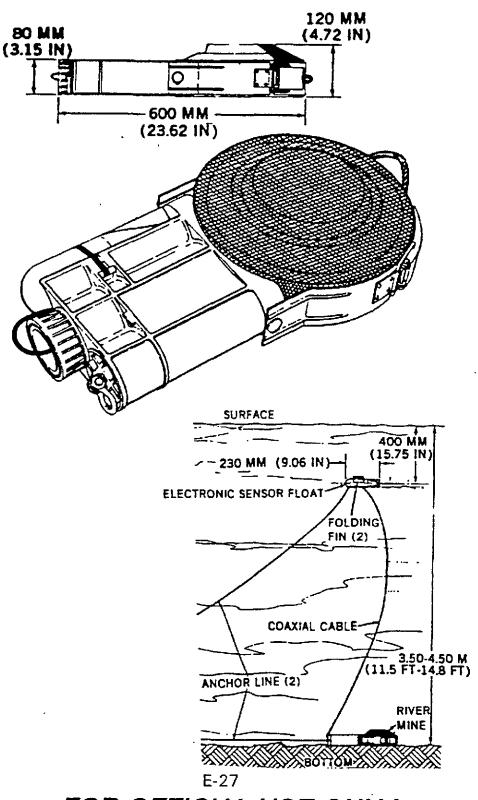
Designation	"МВП-62М"	"MBЧ-62"	"МВН-80"	
Туре	Mechanical, pressure-action, with time-delay element (pneumatic)	Mechanical, pressure-action, with time-delay mechanism (clockwork)	Electronic, proximity-contact fuze with time-delay element (hydraulic)	
Weight, kg	0.45	0.9	1.3	
Dimensions, mm:				
- diameter	125	145	125	
- height	90	90	90	
Fuze Seat Thread	KP 125 x 5	KP 125 x 5	KP 125 x 5	
Pressure/Throw- away Force on the Actuation Button, N	Pressure Action, 30 to 200	Pressure Action, 30 to 150	Pressure Action, 1100	
Actuating Force, N	1500 to 6000	1500 yo 5500	It responds to Tank Magnetic Signature	
Operational Temperature Range, ° C	-50 to + 50	-50 to +50	-30 to +50	
Off-the-Shelf Item	Each	Each packing contains 24 fuzes		
Shelf Life, years	10	10	10	
Features	it is not detected by induction mine detector	It is fully resistant to both mine clearing line charge explosion and the detonation of a neighbouring mine	It allows remote target detection, and besides it can be switched over to the "safe" position using a control device. The fuze is resistant to both mine clearing line charge explosion and the detonation of a neighbouring mine.	
-	The explosive trains of the fuze is interrupted in the transporting position. The fuze can be used with either buried or surface-laid AT mines which are laid manually or mechanically. The fuze can be switched over from the "live" position to the transporting position without removing it from the mine, to be reused later on.			

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ţ	•		**************************************
			RIVER
	·		RE
			# 10 m 70 % 10 m 10 m 10 m 10 m 10 m 10 m 10 m 1
•			

10.45



Netherlands Landmine, River, Influence, MIRJAM

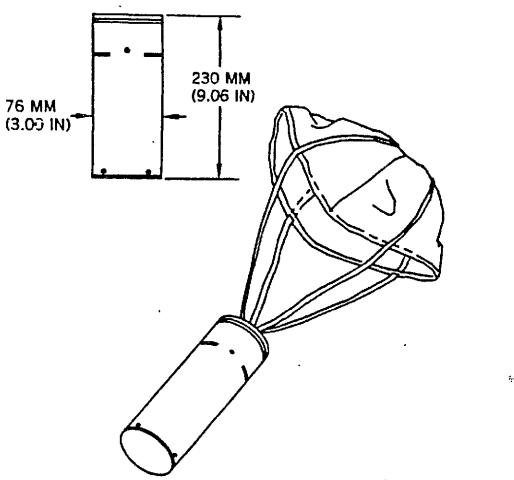


SCATTERABLE ANTIPERSONNEL MUNITIONS

FIXED OR RANDOM DELAY ACTION



Chilean Bomblet, Area Denial, Frag, Incendiary, PM-3

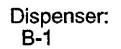


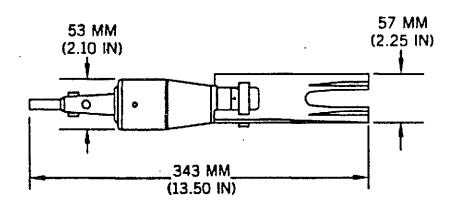
NOTES:

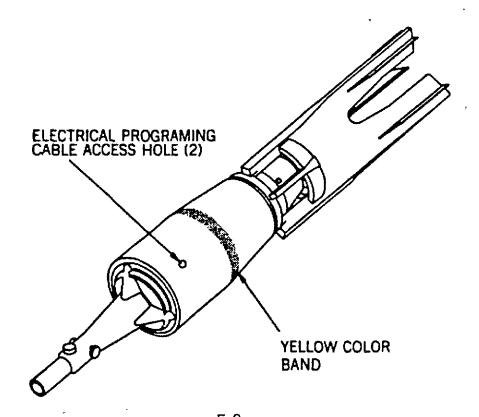
- (1) THE BOMBLET CONTAINS AN INTERNAL DELAYED ACTION FUZE THAT IS FACTORY SET TO DETONATE FROM 30 SECONDS TO 72 HOURS. THE FUZE IS ELECTRONIC, CONTAINS A BATTERY, AND IS ACTIVATED UPON RELEASE FROM THE CLUSTER.
- (2) THE TOTAL WEIGHT OF THE BOMBLET IS 2.2 KILOGRAMS (4.9 LBS). IT CONTAINS 588 GRAMS (1.3 LBS) OF RDX OF WHICH 144 GRAMS (5.1 OZ) IS AN INCENDIARY COMPOUND.
- (3) THE COLOR OF THE BOMBLET IS UNKNOWN.
- (4) THERE ARE 970 BALL BEARINGS IN EACH BOMBLET.
 ANY BOMBLET FOUND OUTSIDE OF A DISPENSER SHOULD
 BE CONSIDERED ARMED AND FUNCTIONING. A CB-770
 DISPENSER CONTAINS 121 BOMBLETS.

F-1

United Arab Emirates Bomb, Frag, B-1





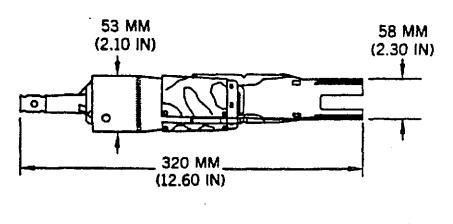


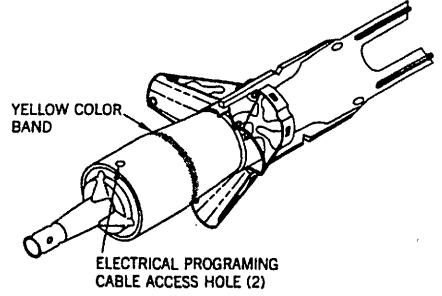
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United Arab Emirates Bomb, Frag, B-1ET

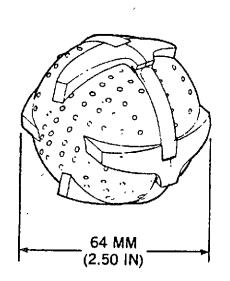
Dispenser: B-1 (Modified)



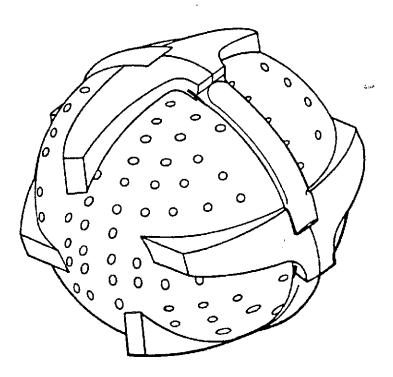


F-3

U.S. Bomb Units, Frag, BLU-26/B, BLU-36/B, BLU-59/B

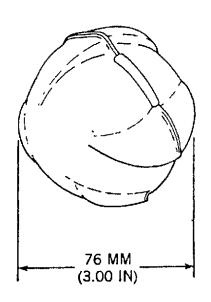


Dispensers: SUU-24/A SUU-30/B, 30A/B, 30B/B, 30C/B SUU-30E/B (BLU 26/B only)



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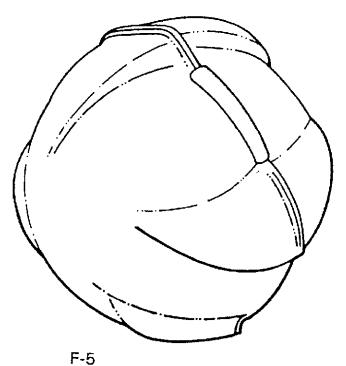
U.S. Bomb Units, BLU-63/B, BLU-63A/B, BLU-86/B, BLU-86A/B



Dispensers: SUU-30H/B SUU-54A/B SUU-51B/B (BLU-63/B Only)

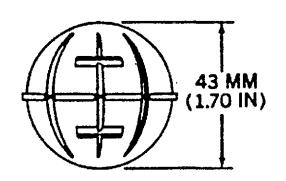
Missile: MGM-52C

Guided Bomb System: GBU-2A/B



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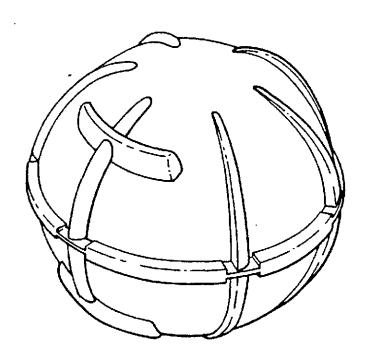
U.S. Grenades, Frag, M38 and M40



Dispensers: SUU-24/A (M40 only) SUU-30C/B Mk5 Mod 0

Rocket: 762-MM (Honest John)

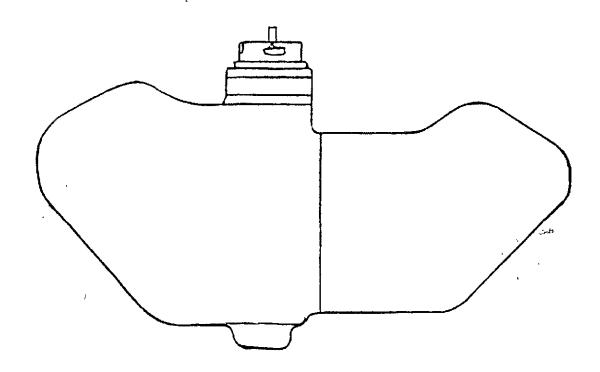
Adapter Unit: ADU-256A (M40 only)



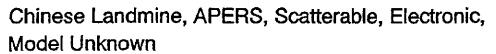
FOR OFFICIAL USE ONLY

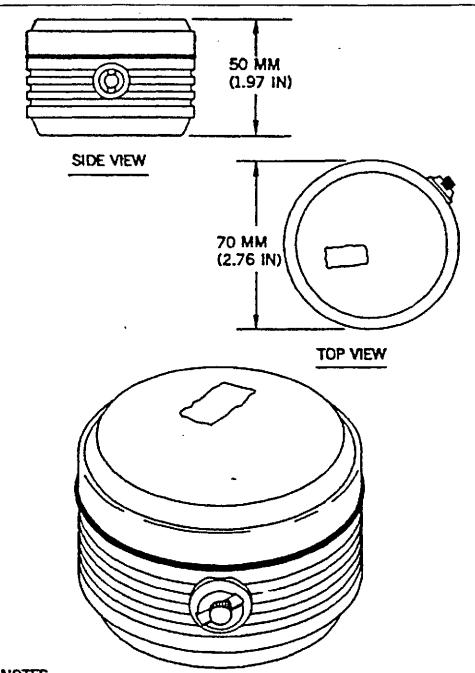


Dispenser: RBK-Series



FIXED OR RANDOM DELAY ACTION - ANTIDISTURBANCE

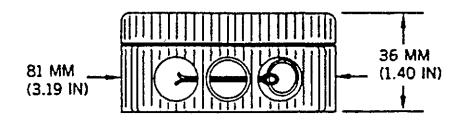


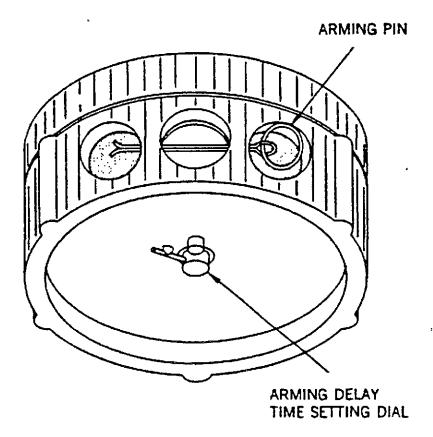


NOTES:

- (1) THE MINE CAN BE EMPLACED MANUALLY OR BY ROCKET.
- (2) THE ARMING DELAY TIME VARIES FROM 2.5 TO 3.0 MIN.
- (3) THE SELF-DESTRUCT TIMES ARE 1-3, 4-6, 7-9, 10-12, OR 13-15 DAYS.
- (4) THE MINE IS GREEN OR GRAY.
- (5) THE MINE MAY CONTAIN AN ANTIDISTURBANCE FEATURE. F-8

Chinese Landmine, APERS, Scatterable, Electronic, Model Unknown



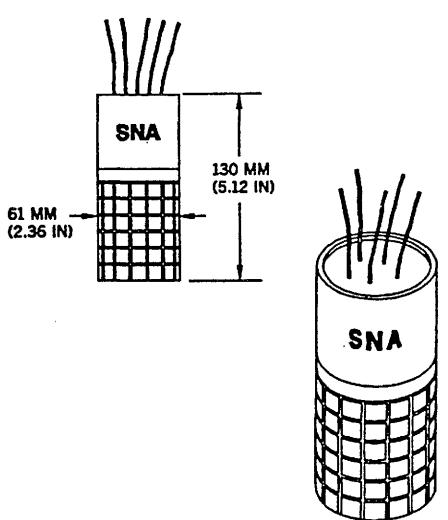


NOTES:

- (1) THE MINE IS GREEN.
- (2) PRESSURE REQUIRED TO FUNCTION THE MINE IS 5.00 TO 20.00 KILOGRAMS (11.02 TO 44.09 LBS).
- (3) THE MINE IS ANTIDISTURBANCE AND SELF-DESTRUCT.
- (4) THE SELF-DESTRUCT TIMES ARE:
 - 2 DAYS, 18 HOURS TO 2 DAYS, 21 HOURS
 - 4 DAYS, 14 HOURS TO 4 DAYS, 19 HOURS
 - 7 DAYS, 8 HOURS TO 7 DAYS, 16 HOURS
 - 14 DAYS, 17 HOURS TO 15 DAYS, 7 HOURS.
- (5) THE MINE WEIGHS 206 GRAMS (7.3 OUNCES).



Spanish Bomblet, Area Denial, Model SNA



NOTES:

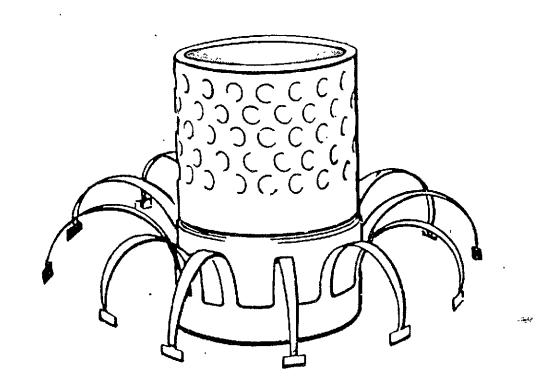
- (1) THE BOMBLET WEIGHS 820 GRAMS (28.9 OUNCES). IT HAS AN HE CHARGE WITH INCENDIARY FEATURES.
- (2) THE BOMBLET IS USED IN INTERDICTION (AREA DENIAL)
 OPERATIONS. THE FRAGMENTARY SHELL IS EFFICIENT
 AGAINST LIGHT VEHICLES, LIGHT ARMORED VEHICLES, AND
 AIRCRAFT ON RUNWAYS.
- (3) WHEN THE BOMBLET IS EJECTED FROM THE DISPENSER THE PARACHUTE DEPLOYS, AFTER 0.6 SECOND DELAY FUZE IS ARMED, AND ON IMPACT THE PREPROGRAMMED DELAY BEGINS. ANY ATTEMPT TO MOVE THE BOMBLET WILL RESULT IN A DETONATION. OTHERWISE IT WILL DETONATE AT THE END OF A PRESET DELAY THAT MAY BE PROGRAMMED RANDOMLY FROM 1 MINUTE TO 24 HOURS.

F-10

U.K. Landmine, Area Denial, HB876

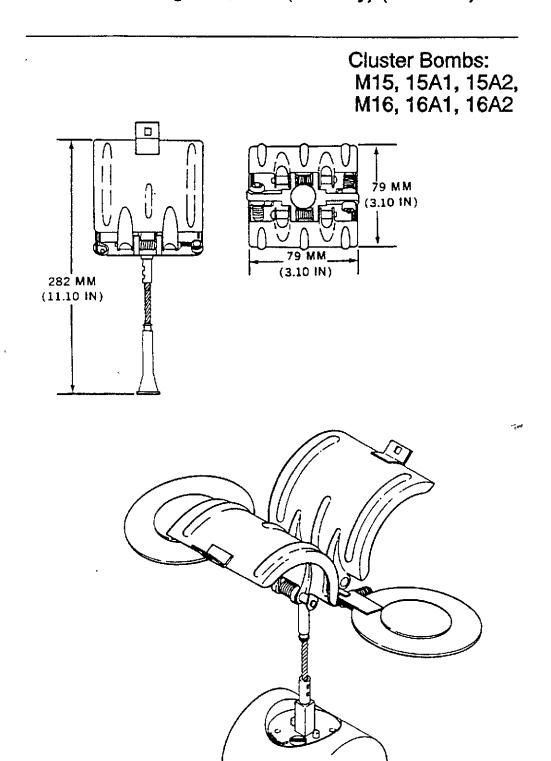
Diameter: 100 MM

Length: 150 MM





U.S. Bomb, Frag, 4-lb, M83 (Butterfly) (Obsolete)

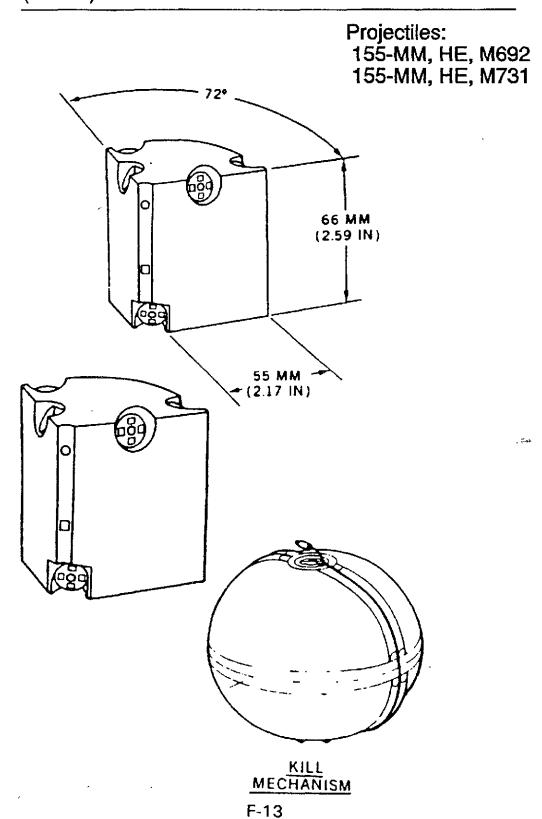


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F-12

ARMED

U.S. Landmine, Apers, Area Denial Artillery Munition (ADAM)

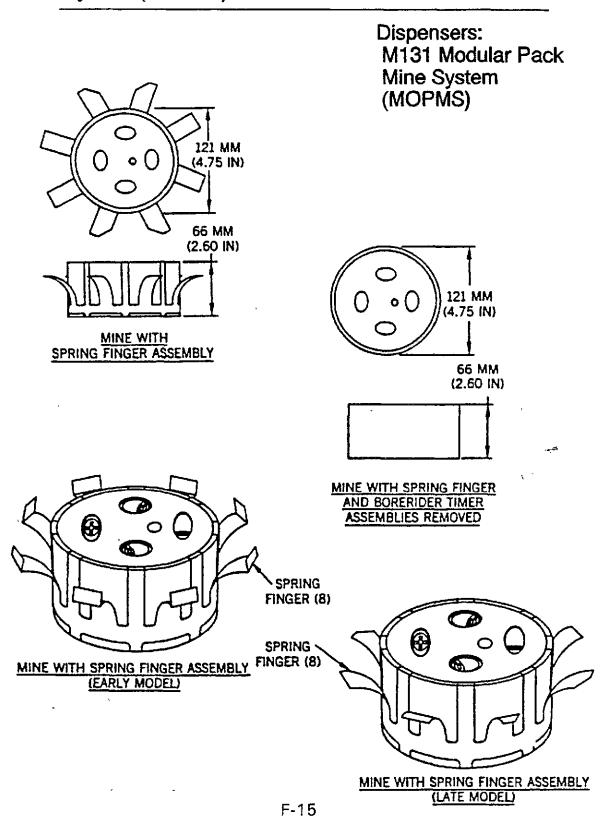


U.S. Landmine, Apers, BLU-92/B (Gator)

Dispensers: SUU-58/B **SUU-64/B** 147 MM (5.80 IN) 121 MM (4.75 IN) BORE RIDER COVER (2)PIN 66 MM 66 MM (2.60 IN) (2.60 IN) 127 MM MINE WITH (5.00 IN) **AEROBALLISTIC** MINE CASE MINE WITH ADAPTER REMOVED **AEROBALLISTIC** BASIC MINE ADAPTER **(3)**

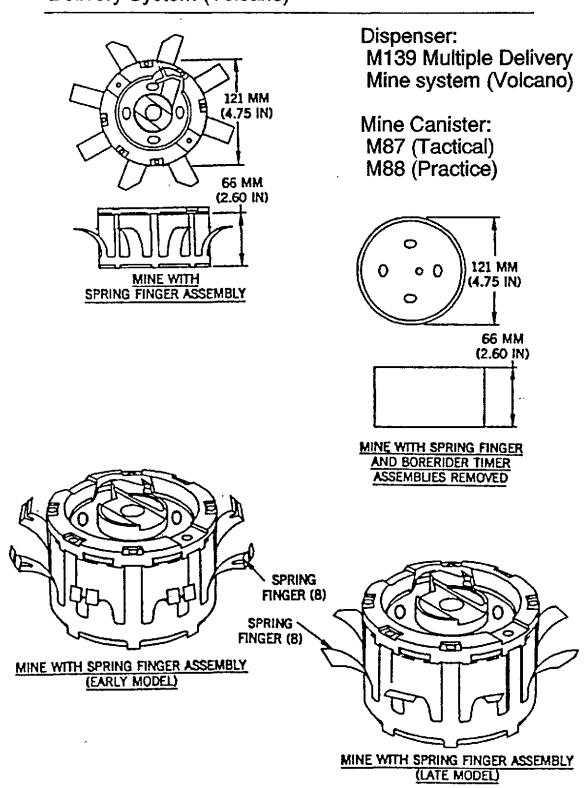
F-14
FOR OFFICIAL USE ONLY

U.S. Landmine, Apers, For M131 Modular Pack Mine System (MOPMS)



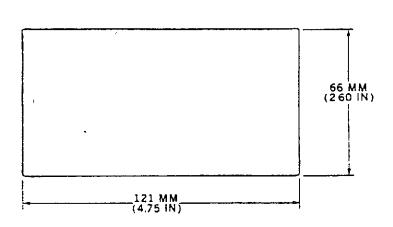


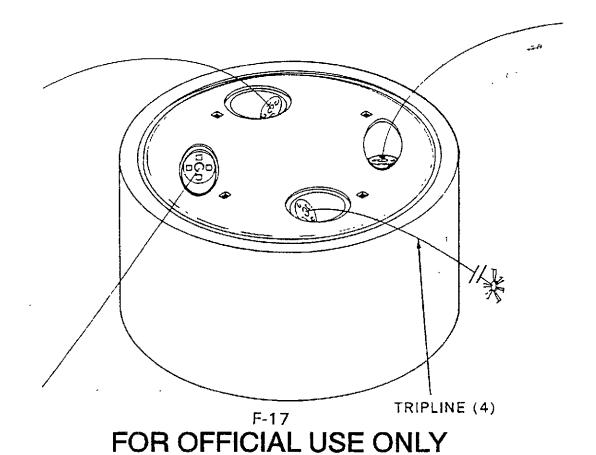
U.S. Landmine, Apers, For M139 Multiple Mine Delivery System (Volcano)



F-16

U.S. Landmine, Apers, M74

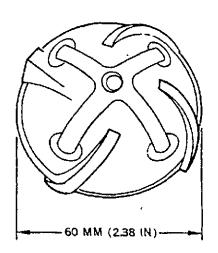


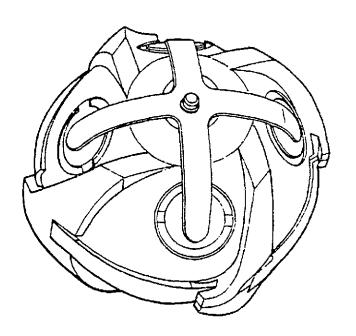




U.S. Mine Units, Apers, BLU-42/B, BLU-42A/B and BLU-54/B (Obsolete)

Cluster Bombs: SUU-38/A



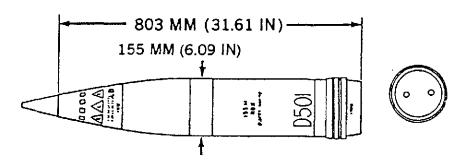


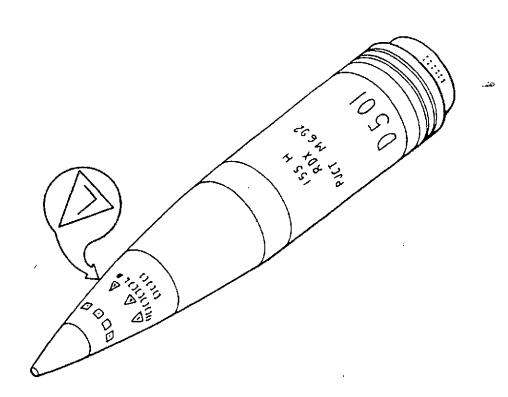
F-18 FOR OFFICIAL USE ONLY

U.S. Projectiles, 155-MM, HE, Howitzer, ADAM, M692 and M731

Fuzes: M577, MTSQ M577A1, MTSQ

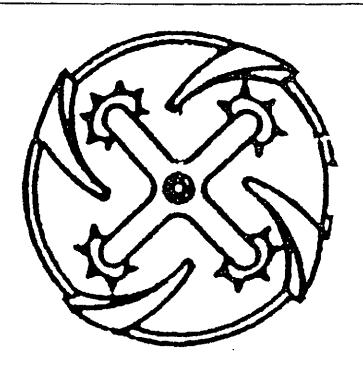
Mine: M67, AP (M692) M72, AP (M731)

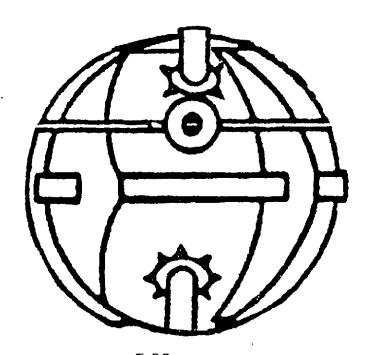




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Former U.S.S.R. Mine, Apers, Scatterable, Model POM-1S

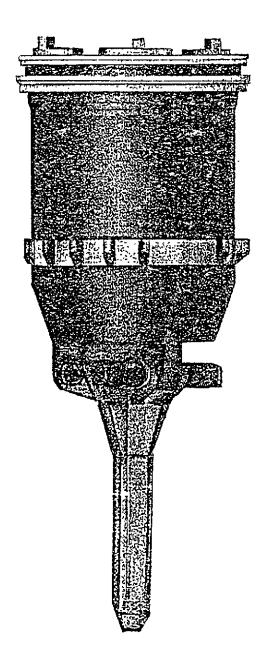




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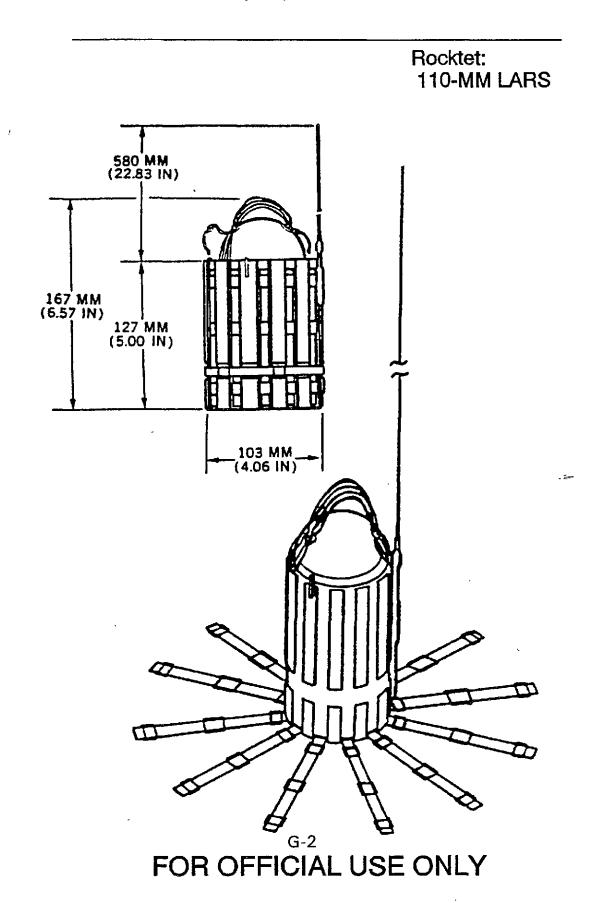
SCATTERABLE ANTITANK MUNITIONS

Chinese Landmine, AT, Type 84A



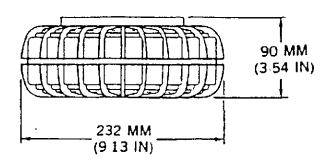
FOR OFFICIAL USE ONLY

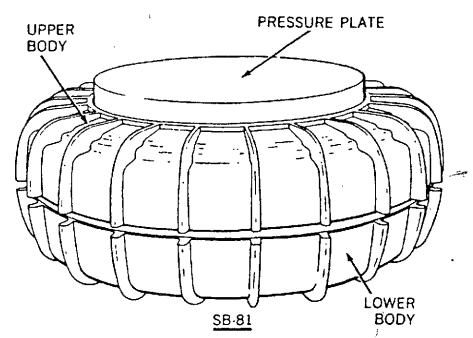
German Landmine, AT, Model AT-II





Italian Landmines, AT, (Scatterable), SB-81 and SB-81/AR-AN

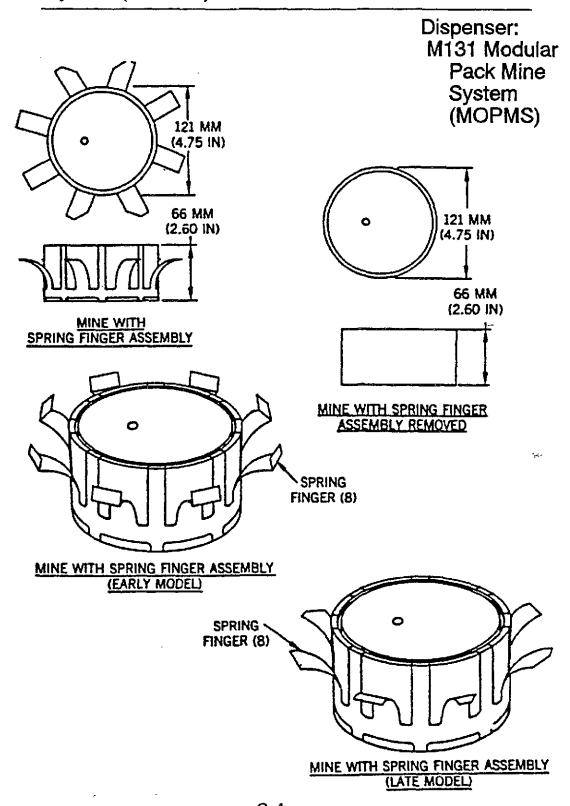




- NOTES. (1) THE COLOR OF THE LANDMINE VARIES ACCORDING TO USER COUNTRY.
 - (2) THE LANDMINE CONTAINS 2 0 KILOGRAMS
 (4 4 POUNDS) OF TNT/RDX/HMX MIX. THE
 BOOSTER CONTAINS 137 GRAMS (4.8 OUNCES)
 OF A RDX/WAX/HMX MIX.
 - (3) THE MODEL SB-81 PRESSURE FUZE REQUIRES 150 TO 310 KILOGRAMS (331 TO 683 POUNDS) TO FIRE. THE SB-81/AR-AN CAN HAVE A PRESSURE, ANTIREMOVAL, SELF-NEUTRALIZING TYPE FUZE, OR A PRESSURE, ANTIREMOVAL SELF DESTROYING FUZE.

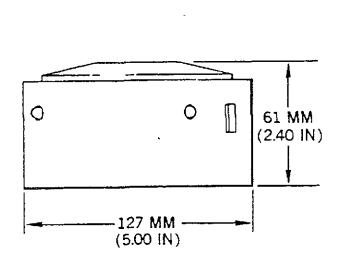
G-3

U.S. Landmine, AT, For M131 Modular Pack Mine System (MOPMS)

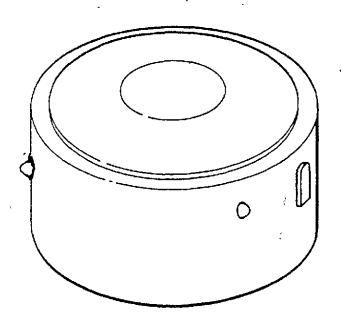




U.S. Landmine, AT, M70 and M73

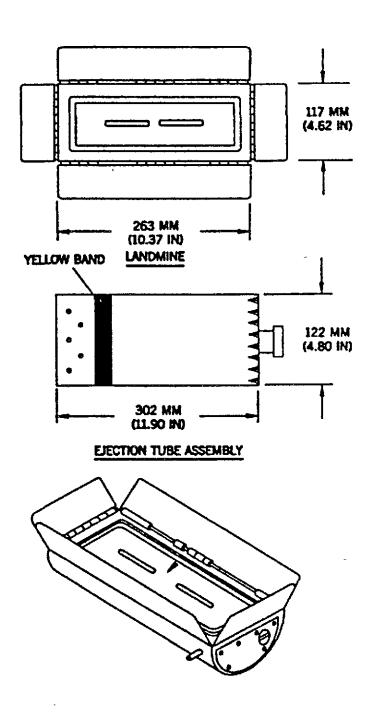


Projectiles: 155-MM, M718 (RAAMS) 155-MM, M741 (RAAMS)



U.S. Landmine, AT/AV, and Ejection Tube Assembly Used in the M56 Mine Dispersing Subsystem

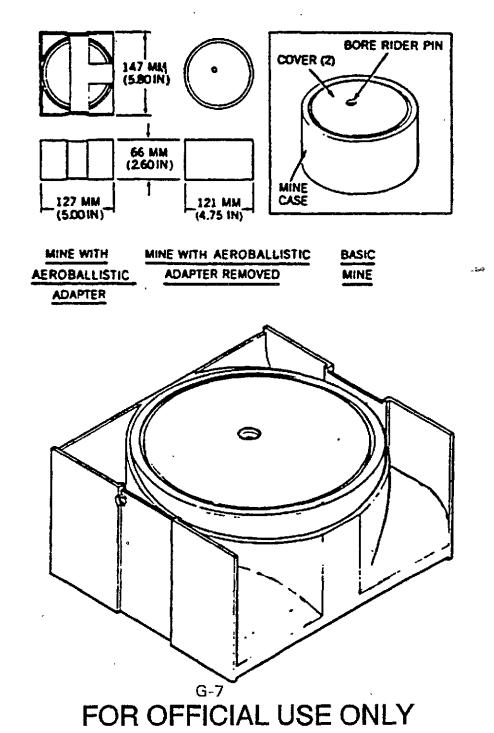
Dispenser: SUU-13D/A



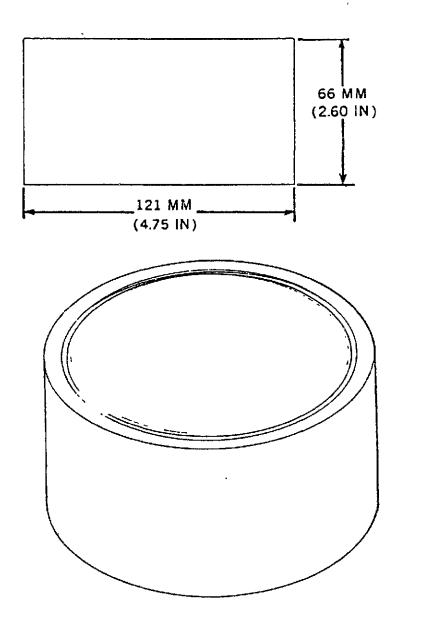
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U.S. Landmine, AT/AV, BLU-91/B (Gator)

Dispenser: SUU-58 SUU-64/B



U.S. Landmine AT/AV, M75

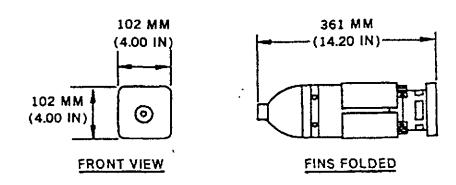


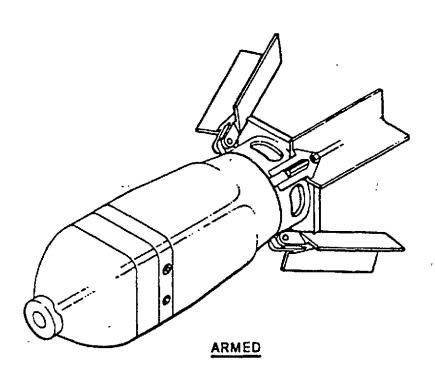
FOR OFFICIAL USE ONLY



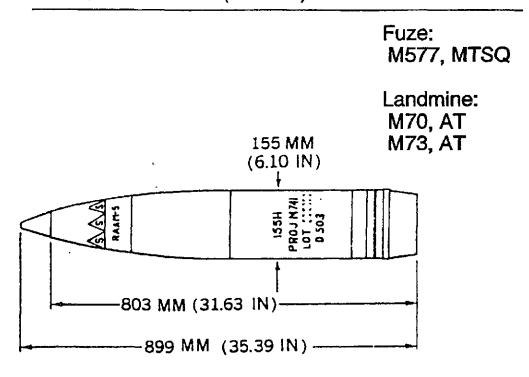
U.S. Landmine Units, AV, BLU-45/B

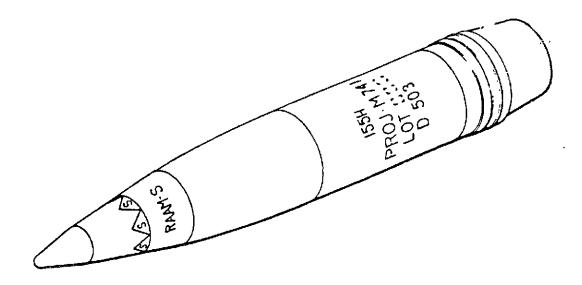
Dispenser: SUU-36/A



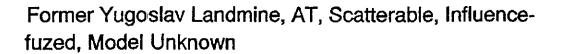


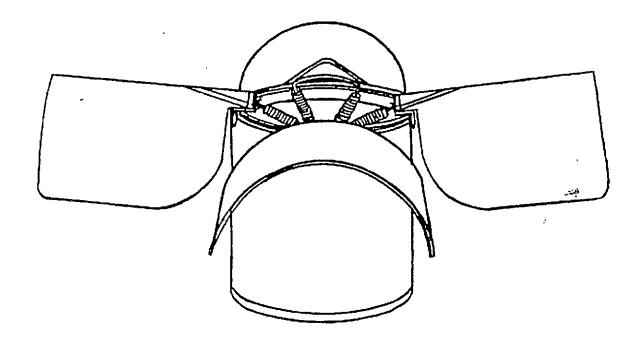
U.S. Projectiles, 155-MM, AT, M718, M718A1, and M741, and M741A1 (RAAMS)



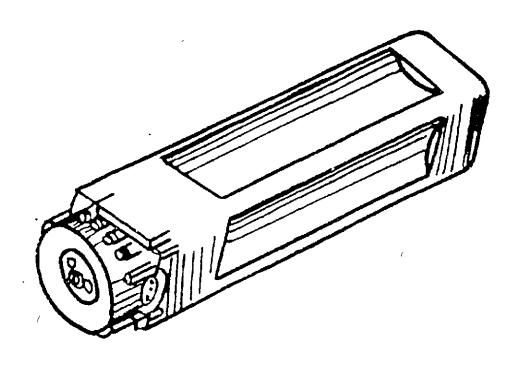


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Former U.S.S.R. Landmine, AT, Scatterable, Model PTM-3



Type: Anti-Tank, Shaped-Charge, Dispenser-Scattarable-Type

Explosive Charge Weight, kg - 1,85

Mine Size, mm

-330- Length _ 84 - Width

- Steel Mine Body Material

Fuze Type - Influence, Magnetic

- single battery, Power Supply type "РЦ53У" (replaceable)

- two-stage: pyrotechnic Safe-arming Delay Mechanism Type

and electronic

- 60 Remote Arming Time, sec

Self-Destruction Device Type - Electronic

— from 16 to 24 Self-Destruct Time, hours

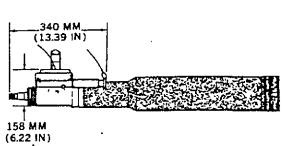
G-12

Declassified and Approved For Release 2014/03/04 : CIA-RDP09-01333R000100010001-2	(, , , , , , , , , , , , , , , , , , ,	

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BOMBS		
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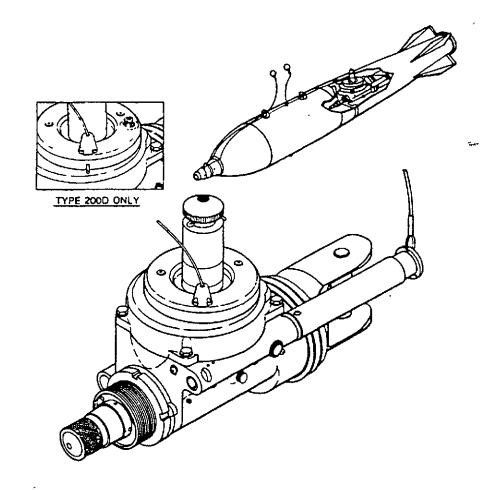


French Bomb Combined Systems, Types 200B and 200D (Matra)

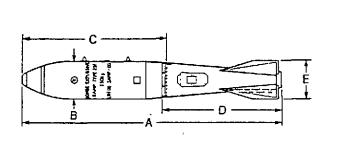


Bombs: SAMP 250 Kg Type 25FE STA 400 Kg Type 200 500 Lb AN-M64C1 (US)

Fuzes: Nose: Matra 19 Matra 19 SR

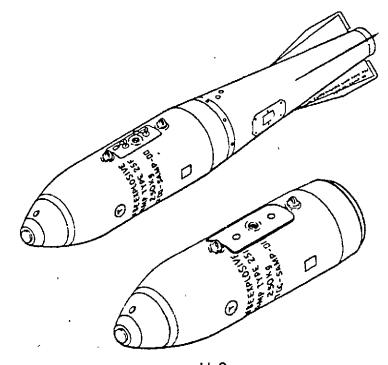


French Bombs, GP, HE/Frag, 250-KG, SAMP, Types 25 FE, 25 CDI, BL 25 FE and BL 25 GE



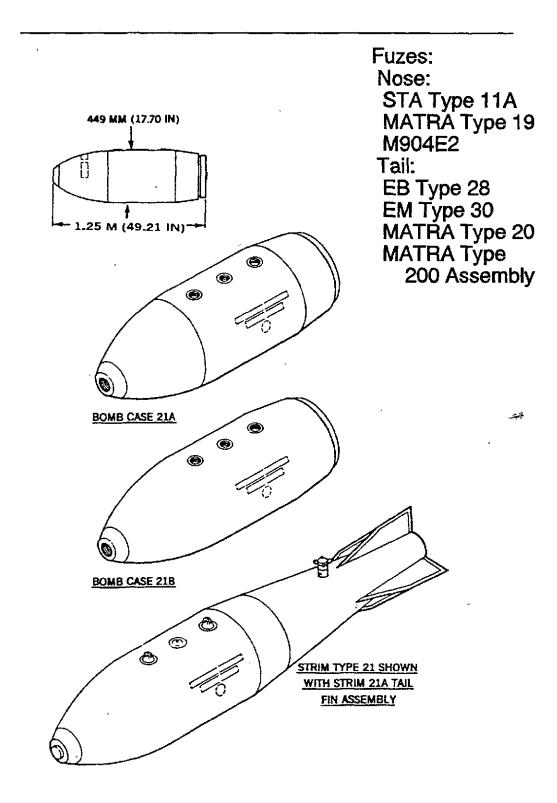
Fuzes:
Nose:
M904E2
19 CR
Tail:
M905
M906
200F Assembly w/
Type 20B/E
200F Assembly w/
Type 21

	DIMENSIONS					
TYPES	Α	В	С	D	Ε	
25 FE	2.10 M (6 8 FT)	324 MM (12.76 IN)	1.20 M (46.77 IN)	978 MM (38 50 IN)	456 MM (17 95 IN)	
BL 25 FE	1.90 M (6.2 FT)	350 MM (13.78 IN)	UNKNOWN	UNKNOWN	400 MM (15 75 IN)	
25 CDI	2.08 M (6.8 FT)	305 MM (12.00 IN)	UNKNOWN	пикиоми	UNKNOWN	
BL 25 GE	1.90 M (6.2 FT)	350 MM (13 78 IN)	имкиоми	пикиоми	400 MM (15 75 IN)	



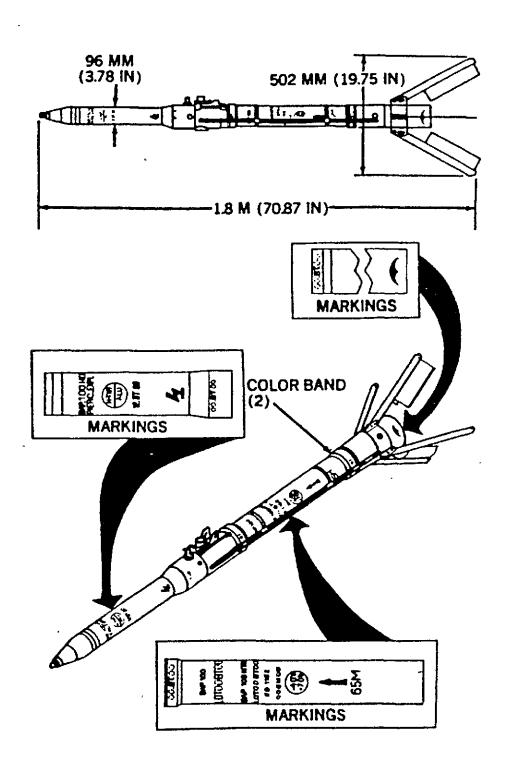
FOR OFFICIAL USE ONLY

French Bomb, GP, 400-KG, STRIM Type 21



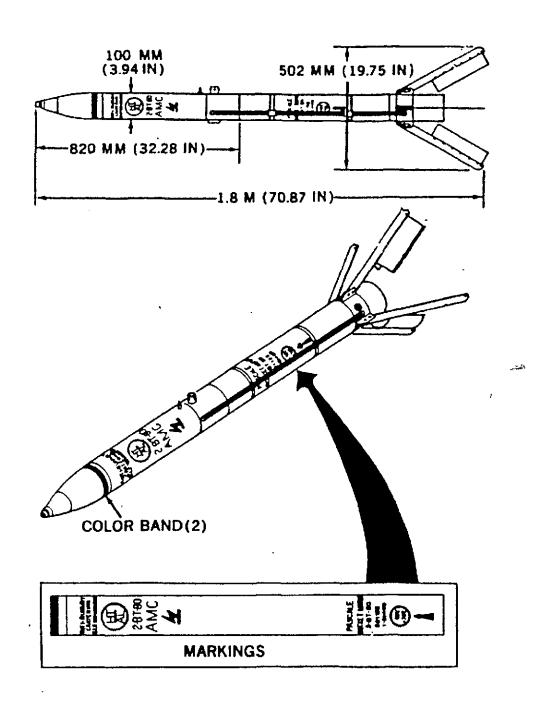
FOR OFFICIAL USE ONLY

French Bomb, Runway Penetrator, BAP-100 65



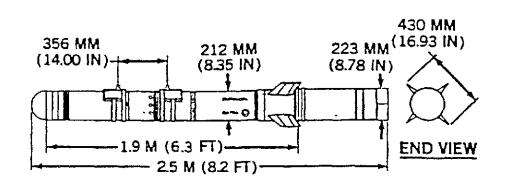
FOR OFFICIAL USE ONLY

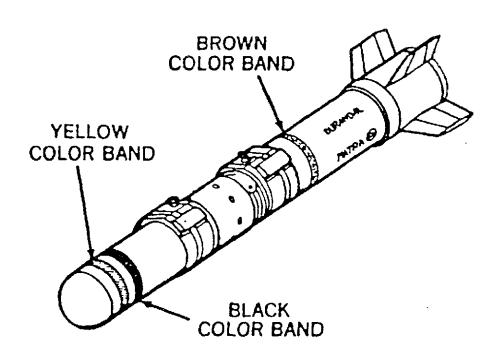




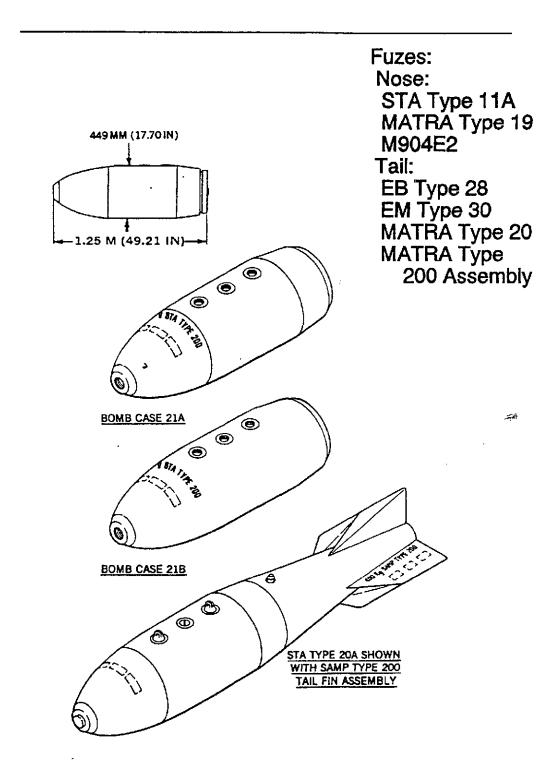
FOR OFFICIAL USE ONLY

French Bomb, Target Penetration, 220-KG, Durandal

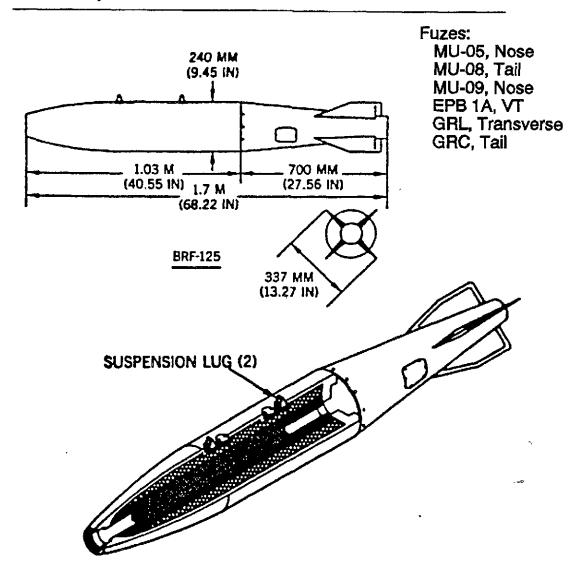




French Bomb, 400-KG, STA, Type 200



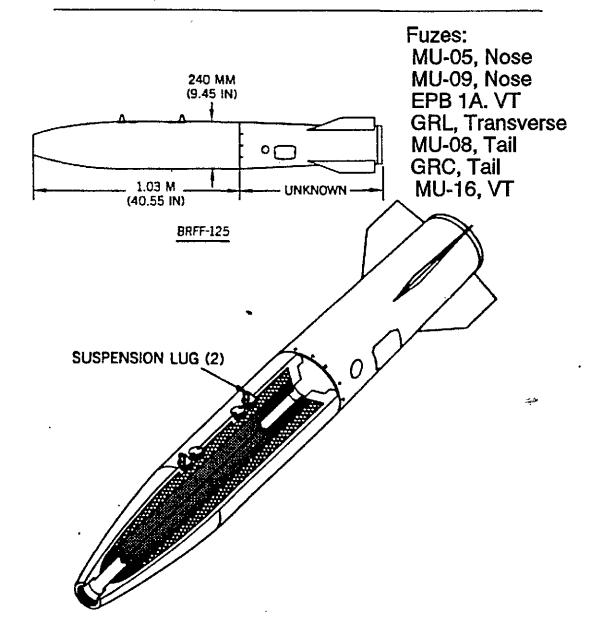
Spanish Bomb, Frag, Models BRF-125, BRF-250, BRF-500, BRF-1000



NOTE:

- (1) THIS IS A LOW-DRAG FREE-FALL FRAGMENTATION BOMB. THE BOMB IS COMPOSED OF A FORGED NOSE WELDED TO THE ROLLED BODY. THE TAIL IS BOLTED TO THE BODY. THE FRAGMENTARY ELEMENT IS 18,000 STEEL BALLS PLACED BETWEEN THE BODY AND THE EXPLOSIVE CHARGE.
- (2) NUMERALS IN NOMENCLATURE INDICATE BOMB WEIGHT
- (3) DETAILS AND DIMENSIONS FOR THE BRF-250, 500, AND 1,000 ARE UNKNOWN.

Spanish Bombs, Frag, Models BRFF-125, BRFF-250 BRFF-500, BRFF-1000

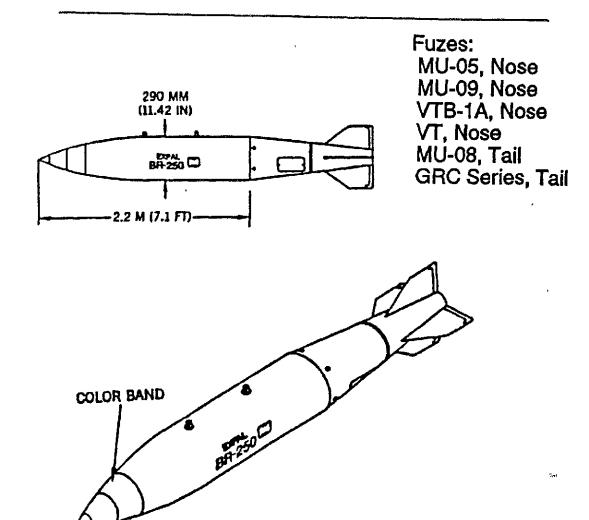


NOTE:

- (1) THIS IS A LOW-DRAG PARACHUTE RETARDED FRAGMENTATION BOMB. THE BOMB IS COMPOSED OF A FORGED NOSE WELDED TO THE ROLLED BODY. THE TAIL IS BOLTED TO THE BODY. THE FRAGMENTARY ELEMENT IS 18,000 STEEL BALLS PLACED BETWEEN THE BODY AND THE EXPLOSIVE CHARGE.
- (2) NUMERALS IN NOMENCLATURE INDICATE BOMB WEIGHT.
- (3) DETAILS AND DIMENSIONS FOR THE BRFF-250, 500, AND 1,000 ARE UNKNOWN.

H-9

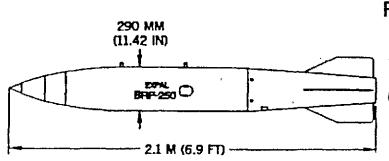
Spanish Bomb, GP, Model BR-250



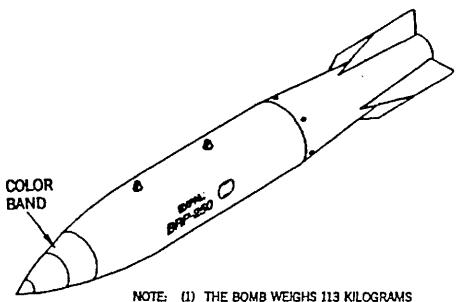
- NOTE: (1) THIS LOW DRAG, FREE FALL, GENERAL PURPOSE
 BOMB IS INTENDED FOR RELEASE FROM MODERN
 GROUND ATTACK AIRCRAFT. IT IS HIGHLY
 VERSATILE AND CAN ACCOMMODATE MANY
 FUZES FOR DIFFERENT PURPOSES.
 - (2) THIS BOMB IS SIMILAR TO THE US MK 80 SERIES. THE TAIL UNIT CAN BE REPLACED BY A PARACHUTE TAIL UNIT. THE BOMB CONTAINS A TRANSVERSE FUZE WELL THAT IS NOT USED IN THE FREE FALL MODE. THE SUSPENSION LUGS ARE BOTH WARSAW PACT AND NATO STANDARD.
 - (3) THE BOMB IS OLIVE DRAB WITH YELLOW MARKINGS AND A YELLOW COLOR BAND. THE PRACTICE BOMB IS BLUE WITH WHITE MARKINGS AND A WHITE COLOR BAND IS FILLED WITH AN INERT FILLER.

H-10

Spanish Bomb, GP, Parachute Retarded, BRP-250



Fuzes: KAPPA-III, Nose EP-516, VE, Nose GRL, Transverse



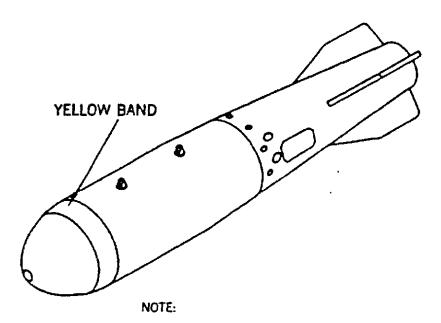
- (1) THE BOMB WEIGHS 113 KILOGRAMS
 (250.0 POUNDS) AND CONTAINS THT, OR AN INERT
 CHARGE FOR TRAINING.
- (2) THIS BOMB WAS DEVELOPED TO BE RELEASED AT A LOW ALTITUDE. IT IS HIGHLY VERSATILE-AND CAN BE FITTED WITH A WIDE RANGE OF FUZES DESIGNED FOR DIFFERENT PURPOSES. THE NOSE CAN BE SUPPLIED WITH AN ADAPTER THAT ALLOWS FUZES PROVIDED WITH 2- AND 3.5-INCH THREADS TO BE FITTED. THE TAIL UNIT CAN BE REPLACED BY A NON-RETARDED ONE AND THE RESPECTIVE FUZES REPLACED BY THOSE USED IN THE BR SERIES.
- (3) IF THE PARACHUTE DOES NOT DEPLOY PROPERLY, THE FUZES MAY NOT FUNCTION. THE BOMB CONTAINS A TRANSVERSE FUZE WELL. THE SUSPENSION LUGS ARE BOTH WARSAW PACT AND NATO STANDARD.

H-11

Spanish Bomb, Parachute Retarded, Model BRIP-400

403 MM (15.87 IN) 2.2 M (7.2 FT)

Fuzes: KAPPA-III, Nose VT, EP-516 **GRL Series**



(1) THE BOMB IS OLIVE DRAB WITH YELLOW MARKINGS AND A YELLOW COLOR BAND AND WEIGHS 400 KILOGRAMS (882 POUNDS). IT CONTAINS AN UNKNOWN QUANTITY OF TNT OR TRITONAL. THE PRACTICE BOMB IS BLUE WITH WHITE MARKINGS AND WHITE BAND WITH AN INERT TRAINING CHARGE

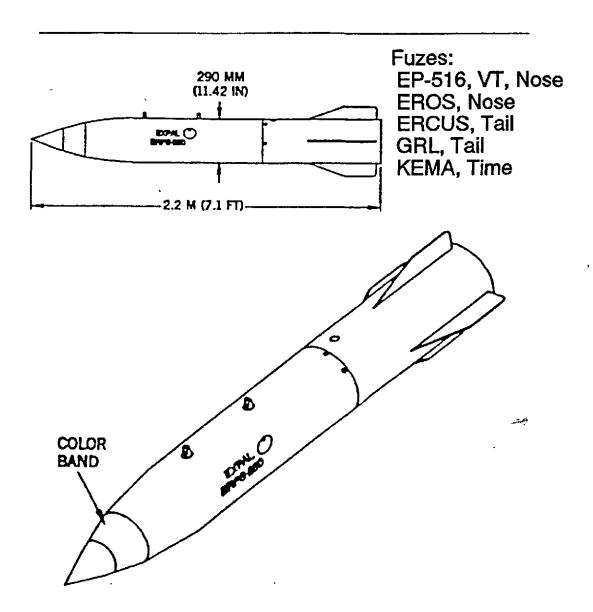
(2) DIFFERENT FUZES CAN BE USED ACCORDING TO THE TYPE OF TARGET. THE BOMB WAS DEVELOPED TO BE RELEASED AT LOW ALTITUDES BUT, IT IS HIGHLY VERSATILE AND CAN BE TRANSFORMED INTO A FREE-FALL BOMB AND CAN BE FITTED WITH MANY DIFFERENT FUZES DESIGNED FOR DIFFERENT PURPOSES. THE NOSE CAN BE SUPPLIED WITH AN ADAPTER THAT ALLOWS FUZES PROVIDED WITH 2- AND 3.5-INCH THREADS TO BE FITTED. IF THE PARACHUTE DOES NOT DEPLOY PROPERLY, THE FUZE WILL NOT FUNCTION AND THE BOMB WILL NOT EXPLODE. TRANSVERSE FUZING IS USED WITH THIS BOMB. (3) SUSPENSION LUGS ARE BOTH WARSAW PACT AND

NATO STANDARD.

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H-12

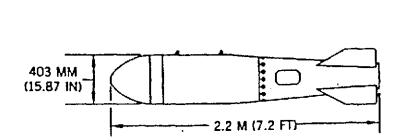
Spanish Bomb, Parachute Retarded, Model BRPS-250



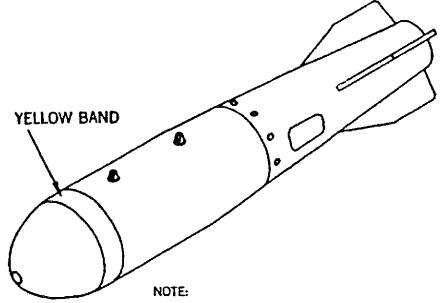
- NOTE: (1) THE BOMB WEIGHS 113 KILOGRAMS (250 POUNDS) AND CONTAINS THT, TRITONAL, OR AN INERT FILLER FOR TRAINING.
 - (2) THIS BOMB WAS DEVELOPED FOR RELEASE AT A VERY LOW ALTITUDE TO AVOID RADAR DETECTION AND AIR DEFENSE FIRE. THE NOSE CAN BE SUPPLIED WITH AN ADAPTER THAT ALLOWS FUZES PROVIDED WITH 2- AND 3.5-INCH THREADS TO BE FITTED. IF THE PARACHUTE DOES NOT DEPLOY PROPERLY, THE FUZES MAY NOT FUNCTION.
 - (3) THE BOMB CONTAINS A TRANSVERSE FUZE WELL.
 THE SUSPENSION LUGS ARE BOTH WARSAW PACT
 AND NATO STANDARD.

H-13

Spanish Bomb, GP, 400-KG, Model BRI-400



Fuzes: MU-05, Nose MU-09, Nose VTB-1A, Nose MU-08, Tail GRC Series, Tail



(1) THE BOMB IS OLIVE DRAB IN COLOR WITH YELLOW MARKINGS AND A YELLOW BAND. IT WEIGHS 400 KG (882 POUNDS) AND CONTAINS AN UNKNOWN QUANTITY OF THE OR TRITONAL, THE PRACTICE BOMB IS BLUE WITH WHITE MARKINGS AND A WHITE BAND WITH AN INERT CHARGE.

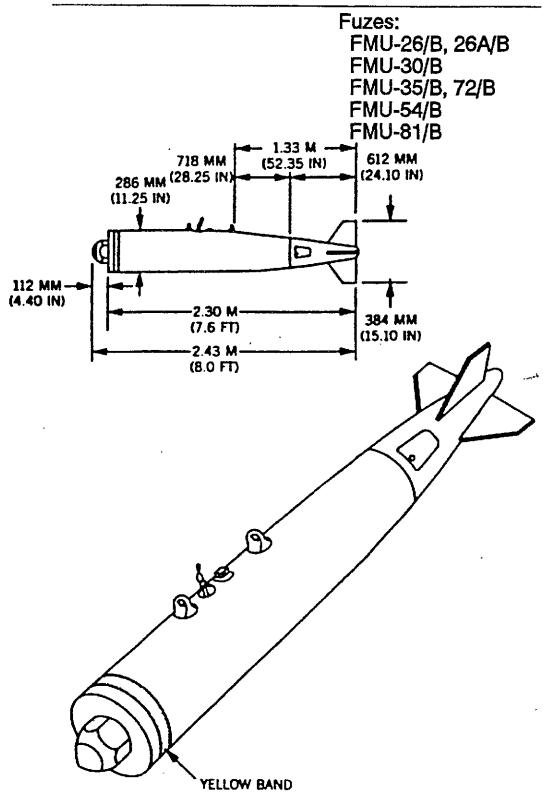
(2) THIS IS A LOW-DRAG FREE-FALL GENERAL PURPOSE BOMB INTENDED FOR RELEASE FROM MODERN GROUND ATTACK AIRCRAFT. IT IS HIGHLY VERSATILE AND CAN BE TRANSFORMED INTO A RETARDED BOMB AND CAN ACCOMMODATE MANY FUZES FOR DIFFERENT PURPOSES. THE NOSE CAN BE SUPPLIED WITH AN ADAPTER THAT ALLOWS FUZES WITH 2- AND 3.5-INCH THREADS TO BE FITTED. THE TAIL UNIT CAN BE REPLACED BY A PARACHUTE TAIL UNIT TO TRANSFORM THE BOMB INTO A RETARDED ONE. THE BOMB CONTAINS A TRANSVERSE FUZE WELL THAT IS NOT USED IN THE FREE FALL MODE.

(3) THE SUSPENSION LUGS ARE BOTH WARSAW PACT AND NATO STANDARD.

H-14

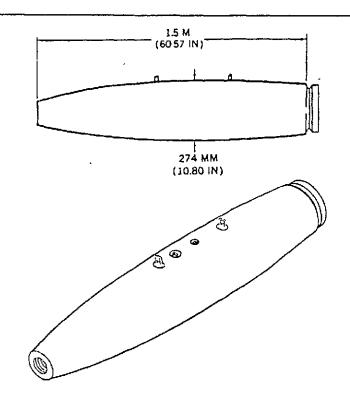


U.S. Bomb, Demolition, BLU-31/B (Obsolete)



H-15

U.S. Bomb, GP (Low Drag), 500-lb, Mk 82

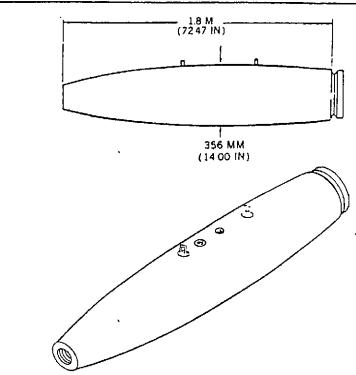


Fuzes: FMU = 26/B, 26A/B, 26B/B FMU-35/B, 72/BFMU-54/B FMU-54A/B FMU-81/B FMU-112/B FMU-113/B FMU-139/B FMU-139A/B AN-M103A1, AN-M139A1, AN-M140A1, M140, M163, M164, M165 AN-M166, AN-M166E1, AN-M168, M188, M914 Series M904E1, E2, E3, E4 M905

M906 M990 Series Mk 243 Mod 0 Mk 244 Mods 0 & 1 Mk 347 Mod 0 Mk 344 Mods 0 & 1 Mk 376 Mod 0 Mk 346 Sensing Elements: M20A1, M66 Target Detecting Device: Mk 43 Mod 0 Fuze Extender: Ml Series (U) Destructor: Mk 36 Timer Actuator: DTU-31/B

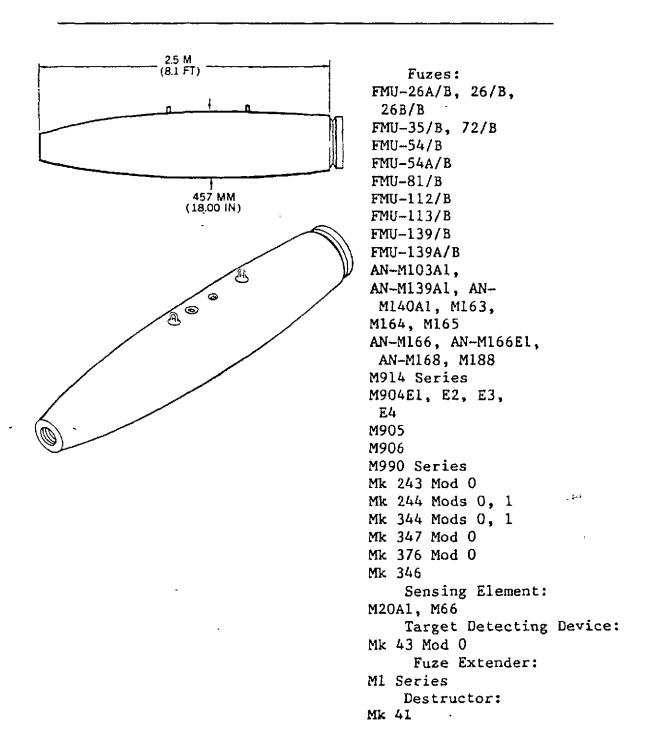


U.S. Bomb, GP (Low Drag), 1,000-lb, Mk 83



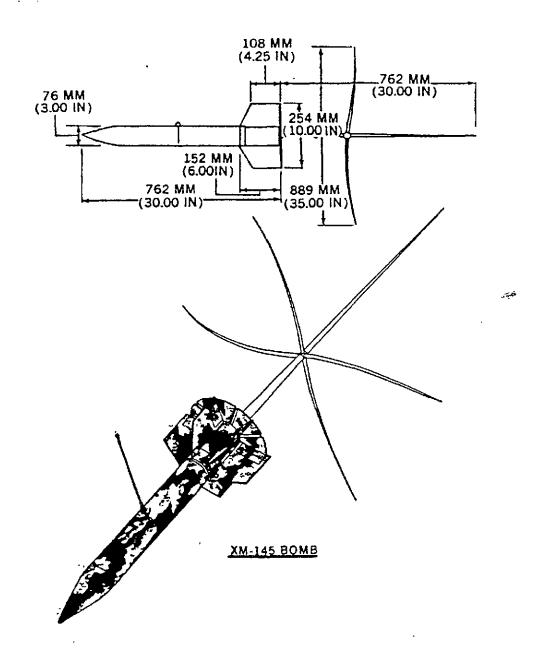
Fuzes: M904E1, E2, E3, FMU-26/B, E4 26A/B, 26B/BM905 M906 FMU-35/B, 72/BM990 Series FMU-54/B Mk 243 Mod 0 FMU-54A/B Mk 244 Mods 0, 1 FMU-81/B Mk 344 Mods 0, 1 FMU-112/B Mk 347 Mod 0 FMU-113/B Mk 376 Mod 0 FMU-139/B Mk 346 FMU-139A/B Sensing Elements: AN-M103A1, M20A1, M66 AN-M139A1, Target Detecting AN-M140A1 Device: M163, M164, Mk 43 Mod 0 M165 Fuze Extender: AN-M166, AN-Ml Series M166E1, AN-Destructor: M168, M188, Mk 40 M914 Series H-17

U.S. Bomb, GP (Low Drag), 2,000-ib, Mk 84



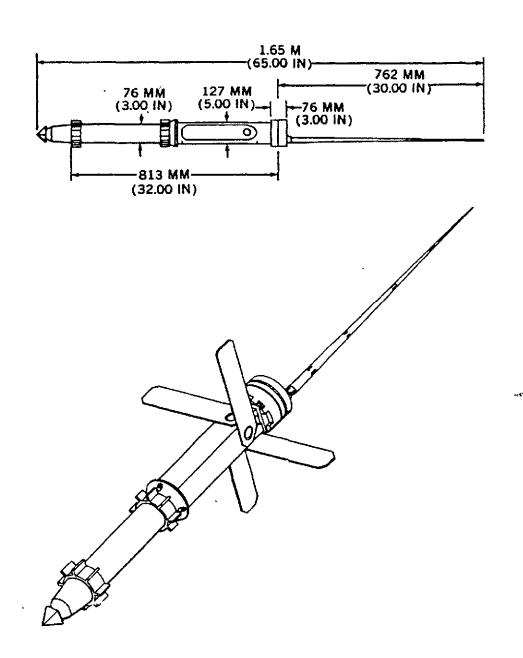


U.S. Bomb, Terrain-Implantation, HE, XM145 and Sensor Intrusion Detector (ADSID)



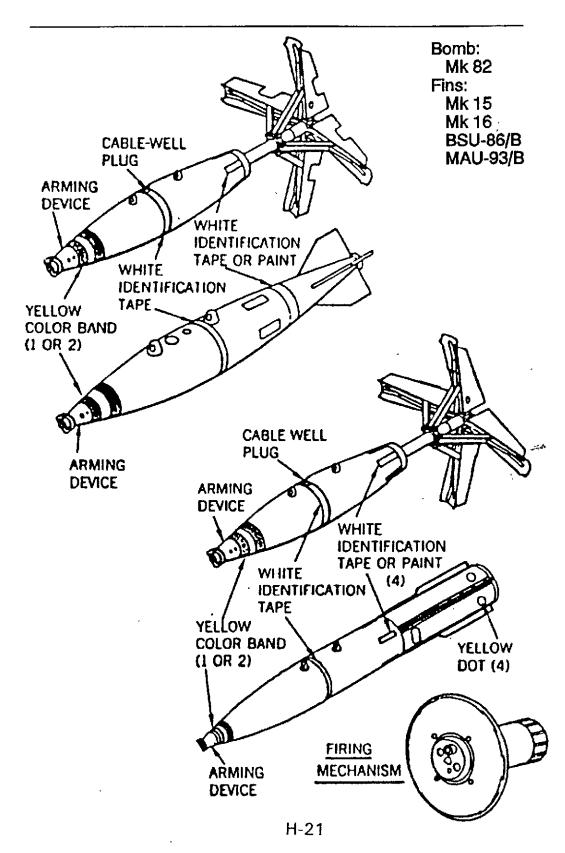
H-19

U.S. Bomb, Terrain-Implantation, HE, XM146 and Sensor Intrusion Detector (HELOSID)

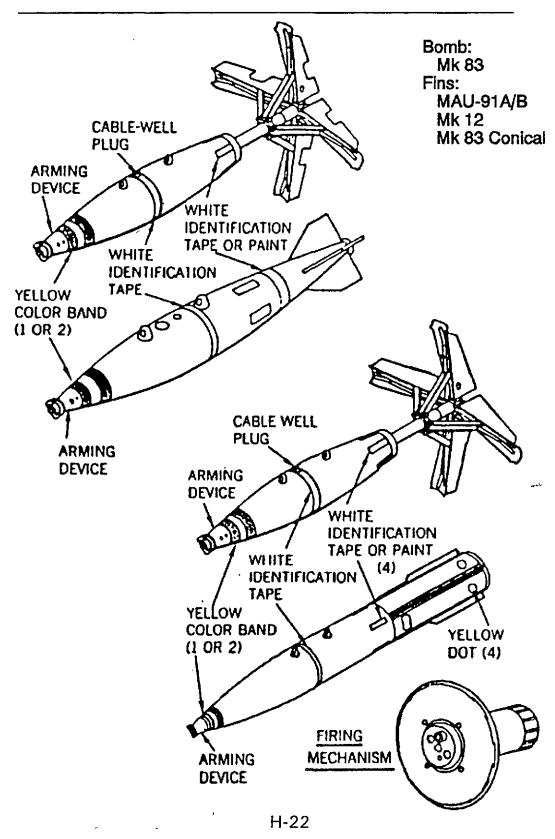


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U.S. Destructors, Mk 36 Mods 0 thru 7 and 15



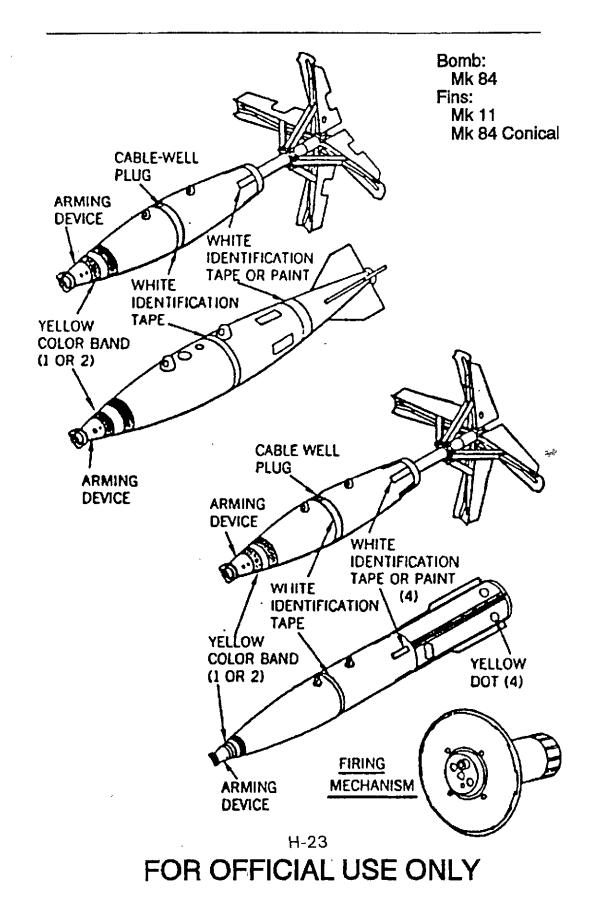
U.S. Destructors, Mk 40 Mods 0 thru 7 and 15



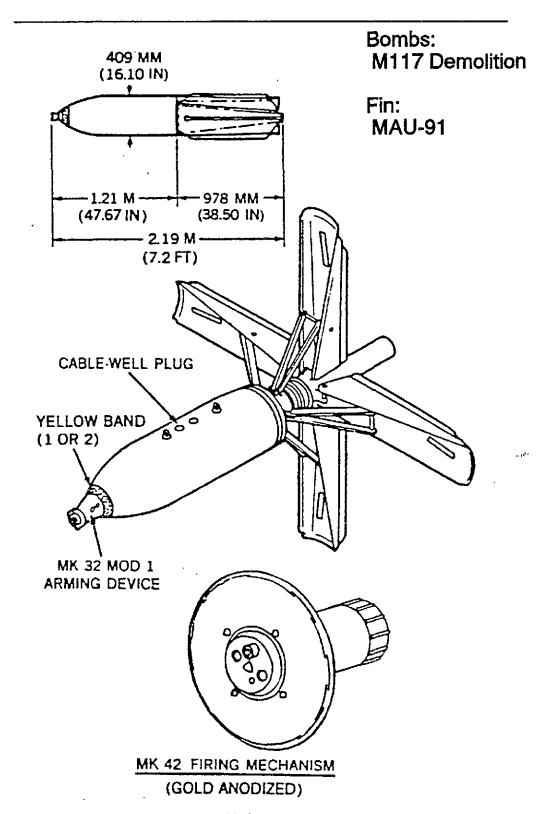
FOR OFFICIAL USE ONLY



U.S. Destructors, Mk 41 Mods 3 thru 7 and 9

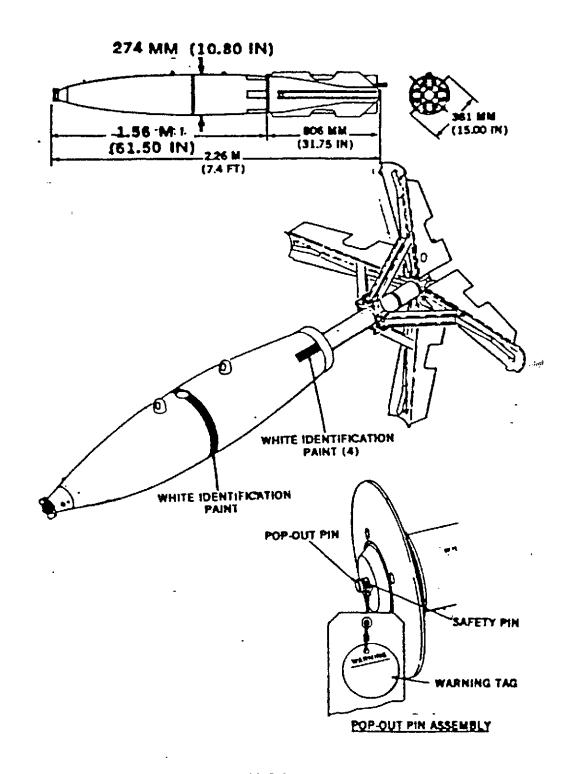


U.S. Destructor, M117/D



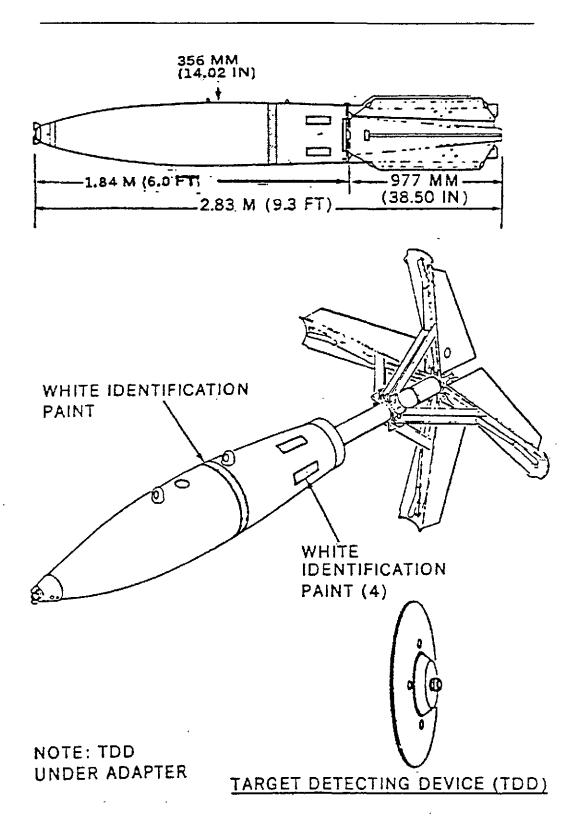


U.S. Naval Mine, Mk 62 Mod 0 (Quickstrike)



FOR OFFICIAL USE ONLY

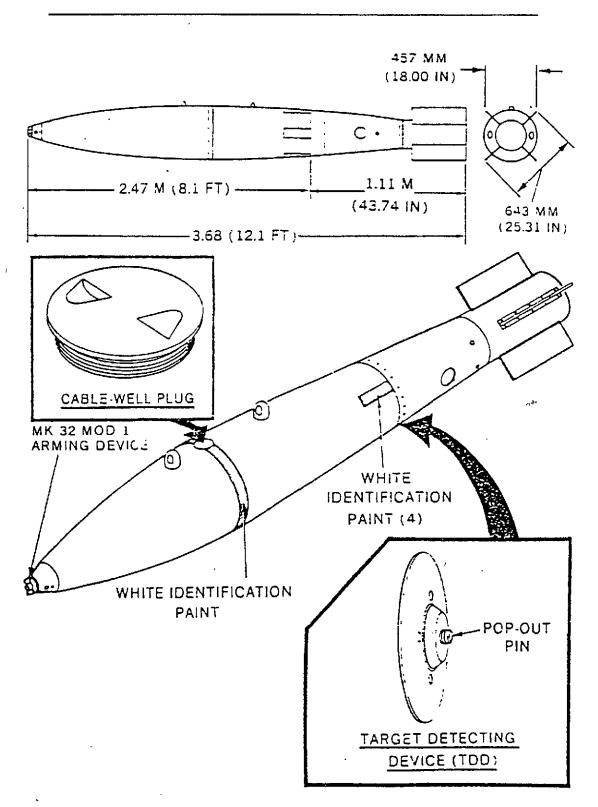
U.S. Naval Mine, Mk 63 Mod 0 (Quickstrike)



FOR OFFICIAL USE ONLY

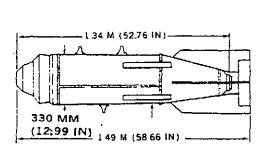


U.S. Naval Mine, Mk 64 Mod 0 (Quickstrike)

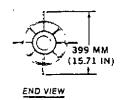


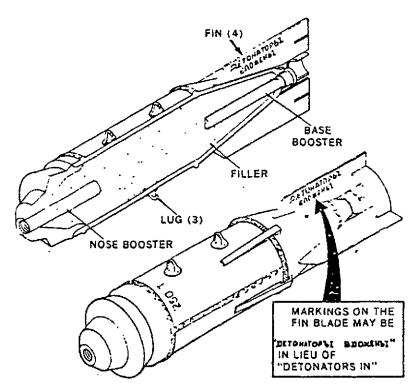
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Former U.S.S.R. Bomb, GP, FAB-250 M54



Fuzes: APUV, APUV-1 AV-1, AV-1 d/u AV-139-E **AVDM** AVU-E VDV, VDV-1 VDV-2



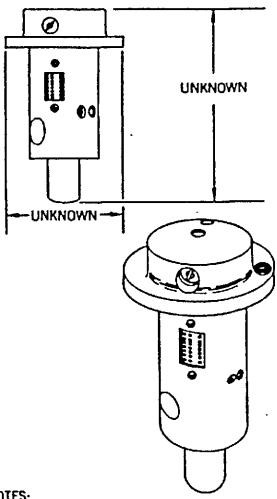


- NOTES: (1) THE STEEL BOMB IS PAINTED GRAY WITH A BLUE NOSE BAND.
 - (2) THE BOMB WEIGHS 234.0 KILOGRAMS (516.0 POUNDS).
 - (3) THE BOMB CONTAINS 96.4 KILOGRAMS (212.5 POUNDS) OF THT.

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Argentine Bomb Fuze, Long Delay, Model GRT



Bombs: BRP: 50 KG. 125 KG, 250 KG, 375 KG, 500 KG, 1000 KG

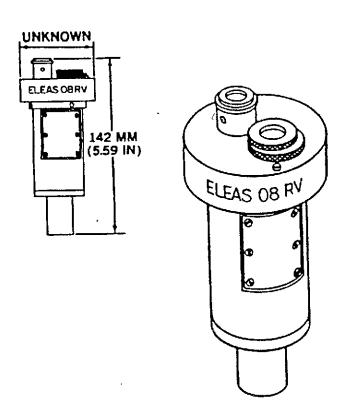
NOTES:

(1) THE DETONATION TIME CAN BE PROGRAMMED USING A CODE NUMBER OF FOUR FIGURES MAXIMUM DELAY IS 9999 MINUTES. THE FUZE IS BATTERY POWERED. THE ARMING HEAD HAS A CLOCKWORK DEVICE WITH A MICROSWITCH FOR START TIME COUNTING. DURING ELECTRONIC COUNTDOWN, IF THE FUZE IS DISTURBED, THE FIRING TRAIN WILL ALIGN, THE IGNITER WILL ACTIVATE AND THE BOMB WILL DETONATE.

(2) THE FUZE HAS SHIPMENT, HANDLING AND INERTIAL SAFETY FEATURES. DECELERATION IS REQUIRED FOR ARMING WHEN USED IN BRAKED BOMBS, THIS DECELERATION IS PRODUCED WHEN THE PARACHUTE IS DEPLOYED. IT HAS IN-FLIGHT SAFETY BECAUSE OF THE ARMING WIRE THAT PREVENTS THE MICROSWITCH FROM MOVING THE FIRING TRAIN OUT-OF-LINE UNTIL THE SET TIME HAS ELAPSED.

1-1

Argentine Bomb Fuze, Transverse, Electromechanical, Delayed Action, Model ELEAS 08 RV



Bombs: BRP: 50 KG, 125 KG, 250 KG, 500 KG

BRPS: 125 KG, 250 KG, 500 KG

FAS: 250 KG

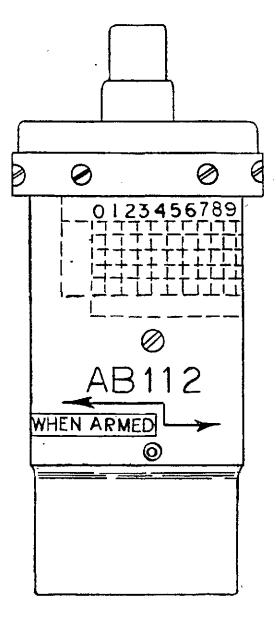
NOTES:

- (1) THE FUZE IS ARMED ELECTRONICALLY OB SECONDS AFTER PARACHUTE DEPLOYMENT. THE DELAY PORTION OF THE FUZE WILL CAUSE INITIATION IN TIMES RANGING FROM 1.76 SECONDS TO 6 HOURS. NOT ENOUGH INFORMATION EXISTS ON THE FUZE TO TELL IF IT HAS AN ANTIWITHDRAWAL OR ANTIDISTURBANCE FEATURE. THEREFORE, THESE FEATURES MUST BE CONSIDERED WHEN WORKING ON THE BOMB.
 (2) THE DELAY TIMES OF THE FUZE: 1.76, 7, 12 SECONDS,
- 15, 30, 45 MINUTES, AND 1, 3, 6 HOURS
 (3) THE FUZE IS HELD IN THE BOMB BY TWO SCREWS
- (1) THE PARKINGS ARE BLACK
- (4) THE MARKINGS ARE BLACK
- (5) THE TOTAL WEIGHT OF THE FUZE IS 680 GRAMS (1.5 POUNDS).



South African Bomb Fuze, Nose & Tail, Electronic, Multioption, Model AB112

Fuze Options: Impact Delay Antidisturbance

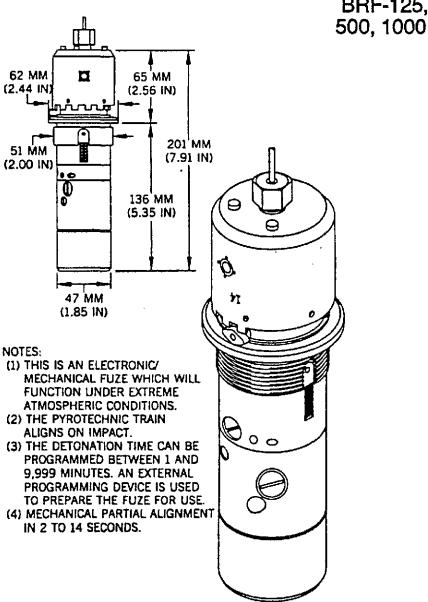


Fuze detonates on battery run down.

1-3

Spanish Bomb Fuze, Tail, Long Delay, Model GRC/AR

Bombs: BR-50, 125, 250, 375, 500, 1000 BRF-125, 250,

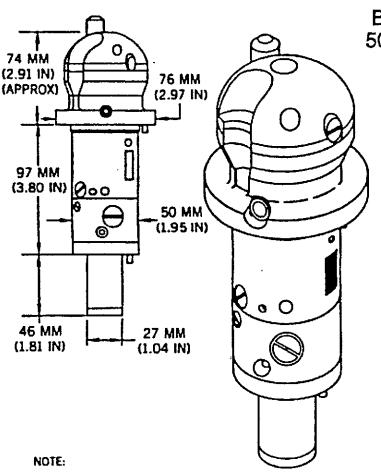


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Spanish Bomb Fuze, Transverse, Long Delay, Model GRL/AR

Bombs: BR-50, 125, 250, 375, 500, 1000



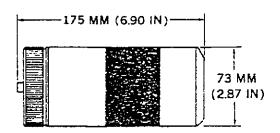
BRF-125, 250, 500, 1000

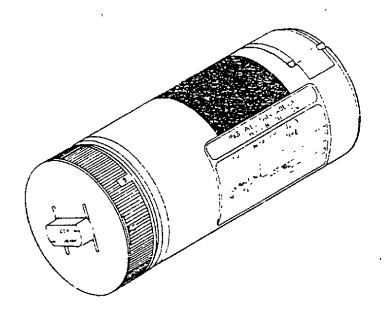
- (1) THIS IS AN ELECTRONIC/MECHANICAL FUZE WHICH WILL FUNCTION UNDER EXTREME ATMOSPHERIC CONDITIONS.
- (2) THE PYROTECHNIC TRAIN AUGNS ON IMPACT.
- (3) IF THE PARACHUTE FAILS TO OPEN OR ONLY OPENS PARTIALLY, OR BREAKS FOLLOWING OPENING, THE FUZE WILL NOT ARM
- (4) THE DETONATION TIME CAN BE PROGRAMMED BETWEEN 1 AND 9,999 MINUTES. AN EXTERNAL PROGRAMMING DEVICE IS USED TO PREPARE THE FUZE FOR USE.
- (5) ELECTRONIC COUNTDOWN DOES NOT BEGIN UNTIL IMPACT.
- (6) THE FUZE WEIGHS APPROXIMATELY 950 GRAMS (2.1 POUNDS).

-5

U.S. Bomb Fuze, Nose & Tail, Electronic, Long Delay, Antidisturbance, FMU-35/B (Obsolete)

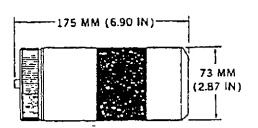
Bombs: BLU-31/B M117 Series M118 Mks 81, 82, 83, 84



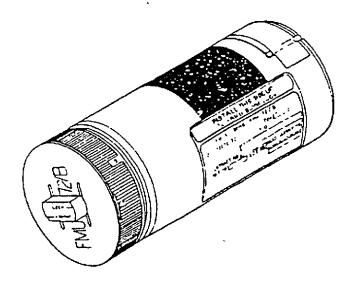




U.S. Bomb Fuze, Nose and Tail, Electronic, Long Delay, Antidisturbance, FMU-72/B



Bombs: BLU-31/B M117 Series M118 Mks 81, 82, 83, 84 GBU-10



(U) Do not use fuze accessories (lanyard locks or adjusters, conical closure plugs, closure rings, streamlined and/or hexagonal plugs) as positive identification features for the FMU-35/B and FMU-72/B fuzes. These accessories are used with other internal electronic short-delay, electronic long-delay, antitistrubance and influence FMU series fuzes.

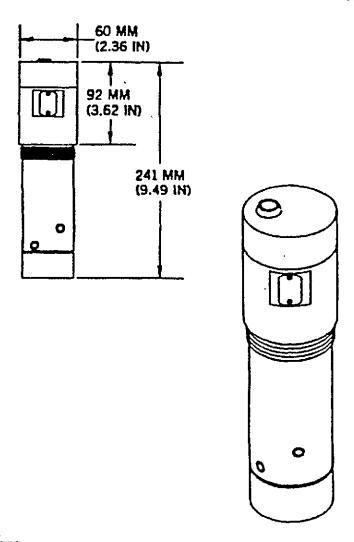
Declassified and Approved For Relea	ase 2014/03/04	l : CIA-RDI	P09-01333R(00010001000	01-2	
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Spanish Bomb Fuze, Tail, Delayed Action, Model INFA RR

Bombs: Retarded, HE 125-500 KG

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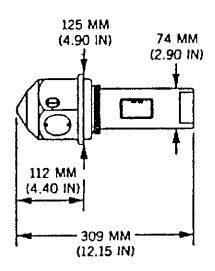
NOTES:

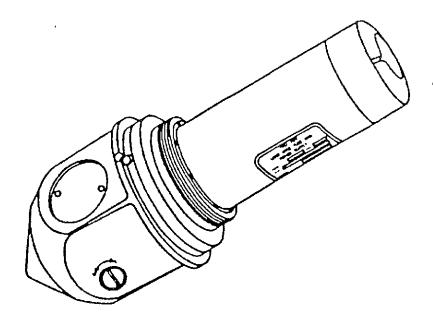
- (1) THE FUZE HAS A PROGRAMMABLE DELAY FROM 30 SECONDS TO 36 HOURS. IT IS INTENDED FOR USE WITH RETARDED BOMBS DURING LOW-LEVEL ATTACKS. NOT ENOUGH INFORMATION EXISTS ON THE FUZE TO DETERMINE IF IT HAS AN ANTI-WITHDRAWAL OR ANTIDISTURBANCE FEATURE. THEREFORE, THESE FEATURES MUST BE CONSIDERED WHEN WORKING ON THE BOMB.
- (2) THE FUZE REQUIRES DECELERATION TO ARM.
- (3) THE TOTAL WEIGHT OF THE FUZE IS 1.4 KILOGRAMS (3.1 LBS.).

1-8

U.S. Bomb Fuze, Nose, FMU-30/B (Obsolete)

Bombs: BLU-31/B



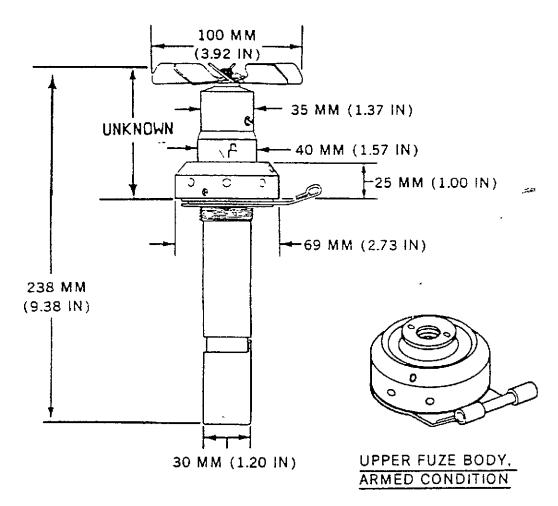


FOR OFFICIAL USE ONLY



Former U.S.S.R. Bomb Fuze, Tail, AVDM

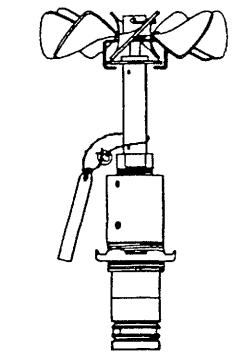
Bombs: FAB-250 M46 FAB-250 M54 FAB-500 M46 FAB-500 M54



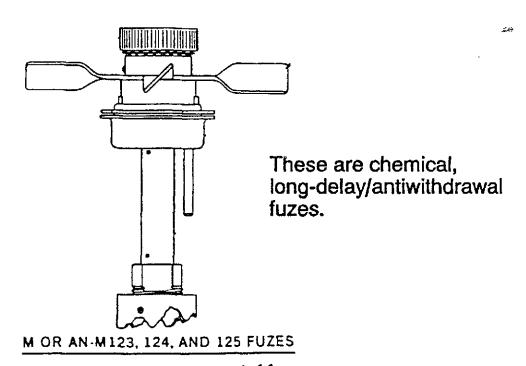
NOTE: THIS IS A LONG-DELAY FUZE.

1-10

U.S. Bomb Fuzes, Tail, M123, M124, and M125



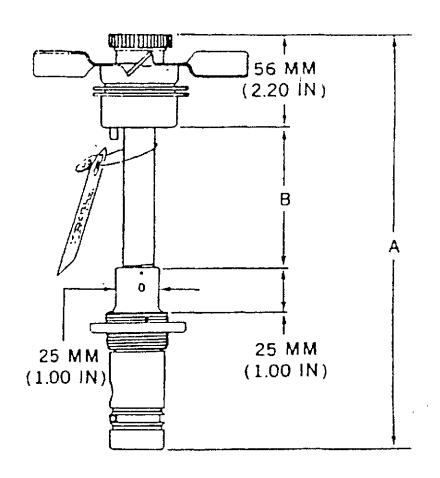
M OR AN-M123A1, 124A1, AND-125A1 FUZES



1-11

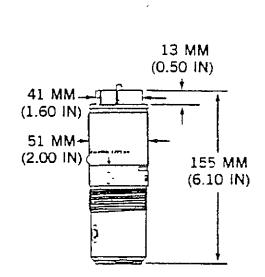


U.S. Bomb Fuze, Tail, M132, M133, and M134

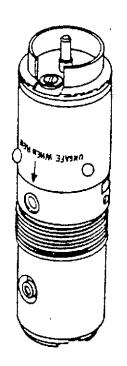


DIMENSION	FUZE M132	FUZE M133	FUZE M134
A	244 MM	320 MM	422 MM
	(9.60 IN)	(12.60 IN)	(16.60 IN)
В	81 MM	157 MM	259 MM
	(3.20 IN)	(6.20 IN)	(10.20 IN)

U.S. Bomb Fuze, Tail, Mk 346 Mod 0



Bombs: M117 Series M118 Mks 81, 82, 83, 84



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