

# **HANDBOOK RUSSIAN FUSES**

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## FOREWORD

This handbook is presenting Soviet and Russian artillery fuses, mortar fuses, aircraft bomb fuses, rocket fuses and recoilless fuses.

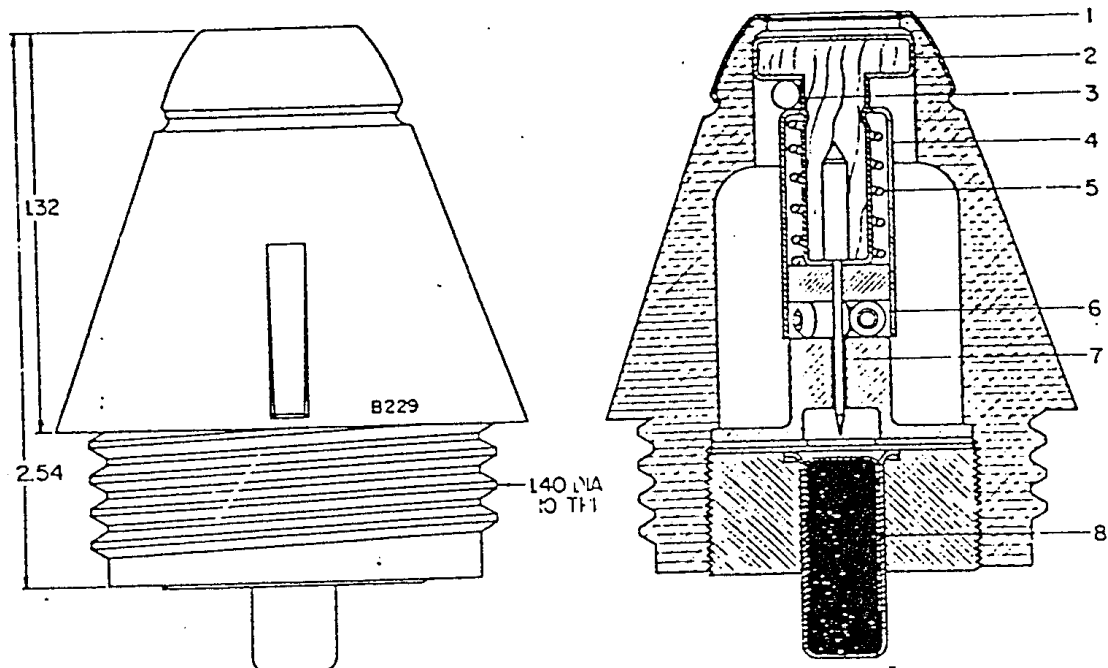
There are included RSP (Render Safe Procedures) for aircraft bombs and rocket fuses.

It is not an attempt to make a complete inventory over Soviet/Russian fuses and aircraft bombs. Instead it is a practical handbook for field use, when the operators are facing the most common Soviet/Russian ammunition.

The handbook does not in itself qualify the operator to dispose of the described devices. Proper EOD qualifications should still be fulfilled. Many of the described procedures are untested, but based on the best technical data available.

# 1. ARTILLERY FUSES

## 1.1 PD Model V-229



### Fuse Data:

**Type:** Impact  
**Model:** V-229  
**Body Material:** Plastic  
**Weight:** 163g  
**Markings:** B-229  
**Length:** 64.5mm

### Using Weapons:

122mm Howitzer M1938

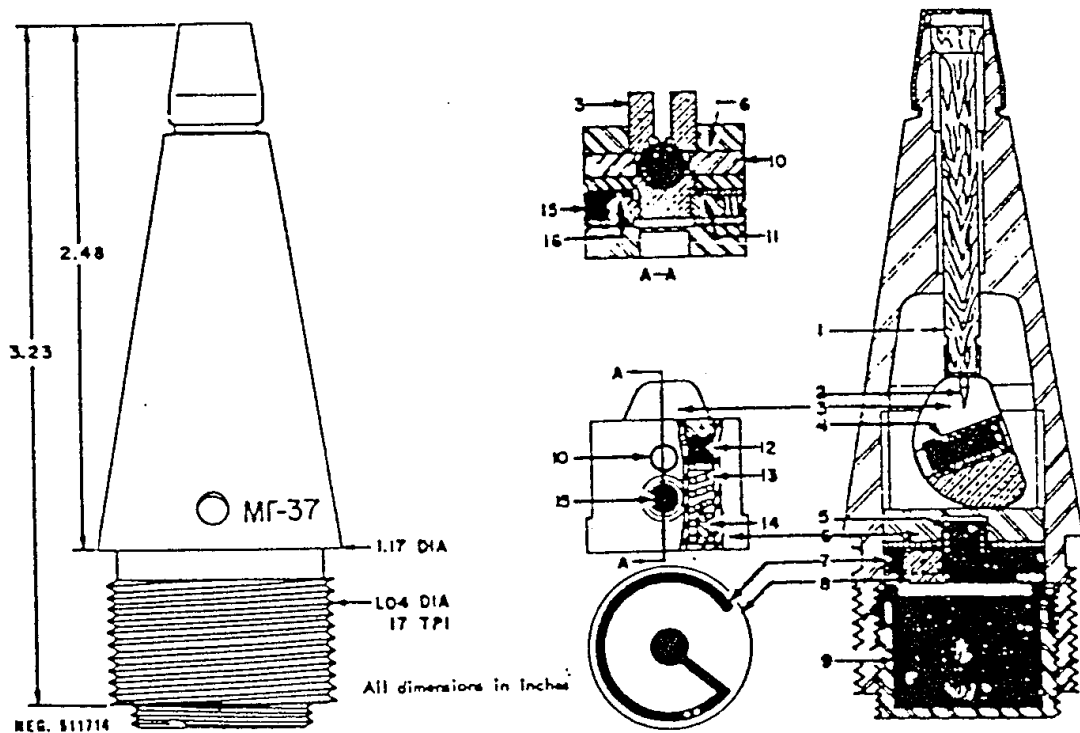
### Functional Data:

**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Spring, Locking Ball, and Safety Rollers

### Using Projectiles:

122mm HEAT OP 460A

## 1.1 PD MG-37



### Fuse Data:

**Type:** Impact, Self-Destroying  
**Model:** MG-37  
**Body Material:** Steel  
**Weight:** 172g  
**Markings:** M"r" - 37  
**Length:** 82.5mm

### Using Weapons:

37mm, Antiaircraft Gun M1939

### Functional Data:

**Arming Method:** Setback and spin  
**Self-destruct Method:** Powder Train  
**Safety Device:** Out of live Detonator

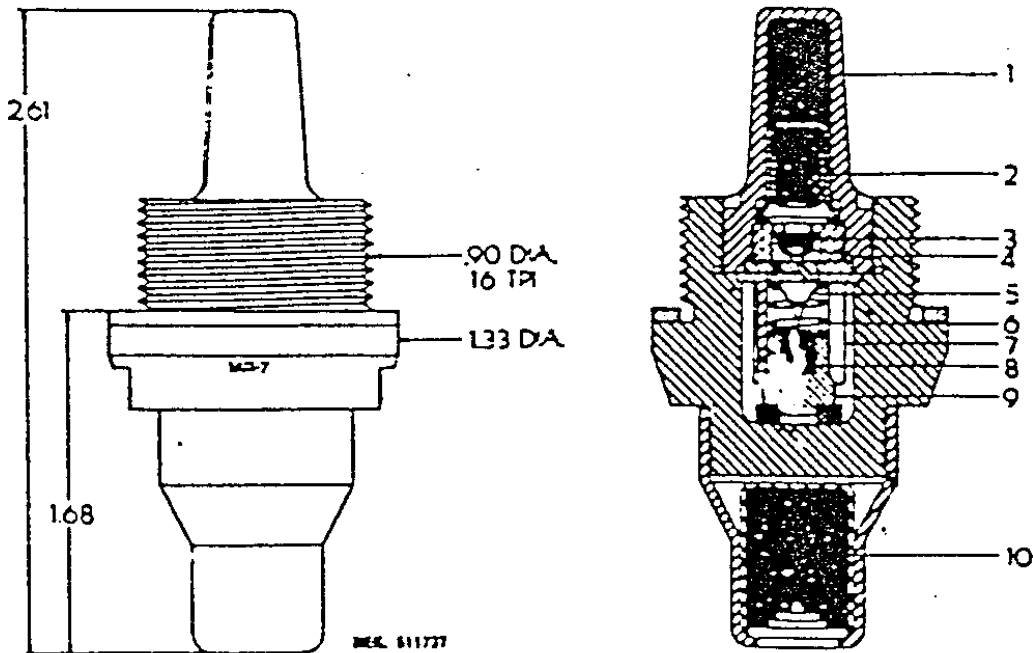
### Using Projectiles:

37mm FRAG-T OR-167  
 37mm FRAG-T OR-167 N



BR350AC, BR-350B

1.3 BD MD-7



**Fuse Data:**

**Type:** Impact  
**Model:** MD-7  
**Body Material:** Steel  
**Weight:** 140.6g  
**Markings:** MD-7  
**Length:** 66.2mm

**Using Weapons:**

45mm Antitank Gun 1942  
 ASU-57 Assault Gun  
 57mm Antitank Gun  
 76mm Field Gun M1942  
 SU-76 Support Gun

**Functional Data:**

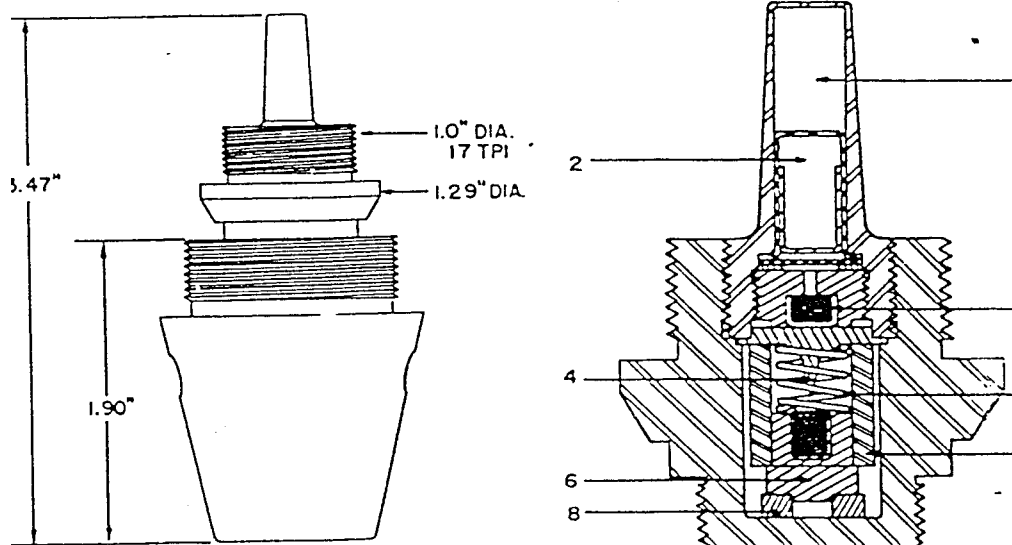
**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Setback

**Using Projectiles:**

57mm, AP-T, BR-271  
 76mm, AP-T, BR-350,  
 BR350A, BR-350B  
 85mm, AP-T, BR-365 and BR-365K  
 152mm, AP-t, BR-540 and BR-540B



### 1.4 BD MD-8



#### Fuse Data:

**Type:** Impact  
**Model:** MD-8  
**Body Material:** Steel  
**Weight:** 348.7g  
**Markings:** A-8 3260  
**Length:** 64.5mm

#### Functional Data:

**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:**

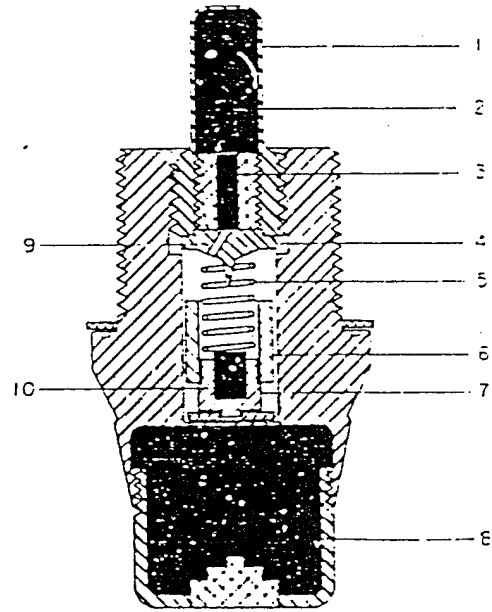
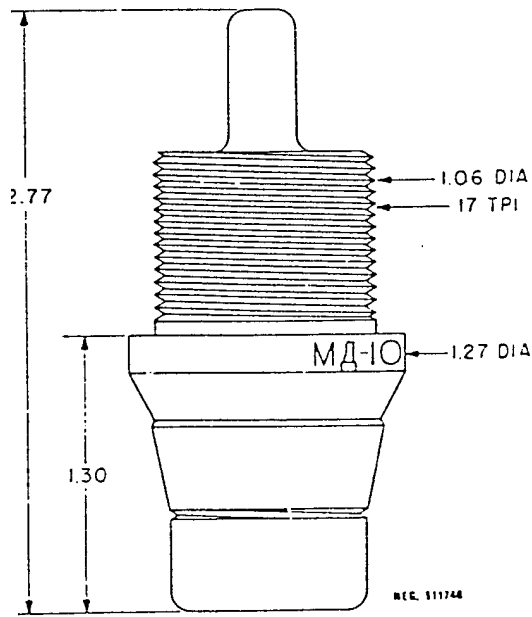
#### Using Weapons:

76mm DIV. Gun  
 76mm, Tank Gun M1940/41  
 85mm AA Gun M1939/44  
 85mm, Tank Gun M1943/44  
 100m Field Gun M1944  
 100mm Tank Gun M1944  
 122mm Tank Gun M1943

#### Using Projectiles:

76mm, AP-T, BR-350B  
 85mm, AP-T, BR-365 and BR-365K  
 100mm, AP-T, BR-412B  
 122mm AP-T, BR-471B

**1.5 BD MD-10**



**Fuse Data:**

**Type:** Impact  
**Model:** MD-8  
**Body Material:** Steel  
**Weight:** 163g  
**Markings:** MA-10  
**Length:** 70.3mm

**Using Weapons:**

57mm Antitank Gun M1941/43  
 ASU-57 ASSULT Gun  
 57mm AA Gun s-60 and ZSU-57-2

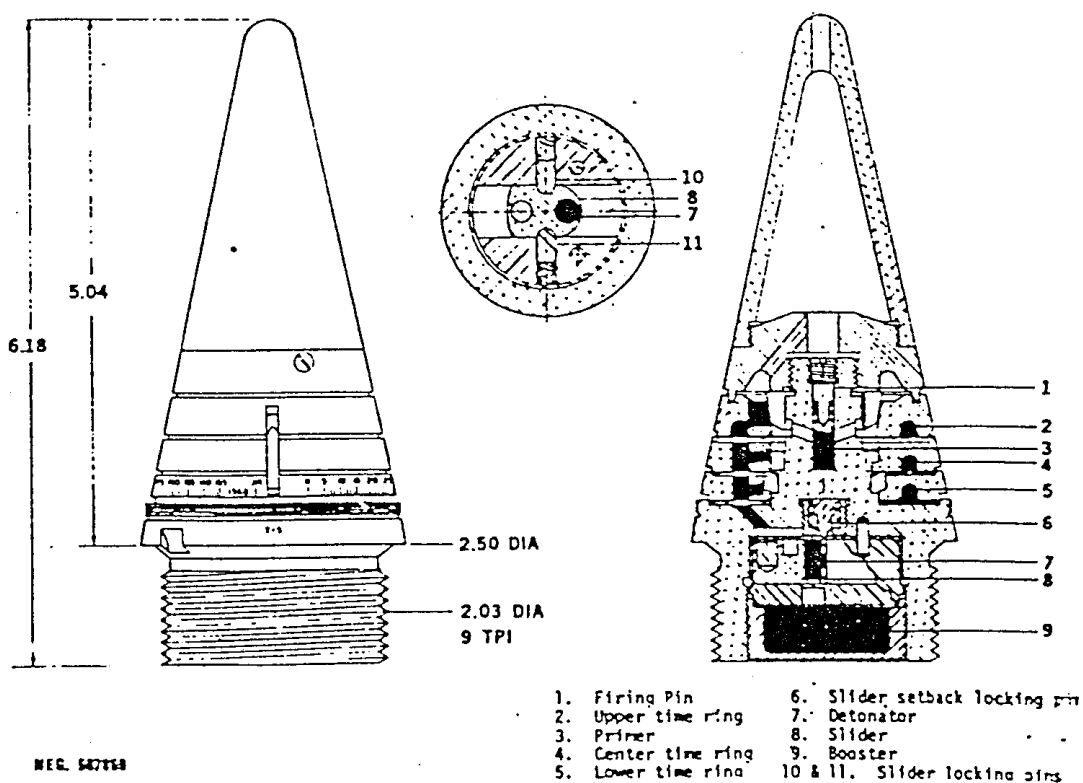
**Functional Data:**

**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Setback

**Using Projectiles:**

57mm AP-T, BR-271,  
 BR-271K, BR-281 and BR-281 U

## 1.6 TIME FUSE T-5



### Fuse Data:

**Type:** Time  
**Model:** T-5  
**Body Material:** Aluminium  
**Weight:** 708g  
**Markings:** T-5  
**Length:** 156.9mm

### Using Weapons:

76mm, Antiaircraft Gun M1939  
 85mm, Antiaircraft Gun KS-12

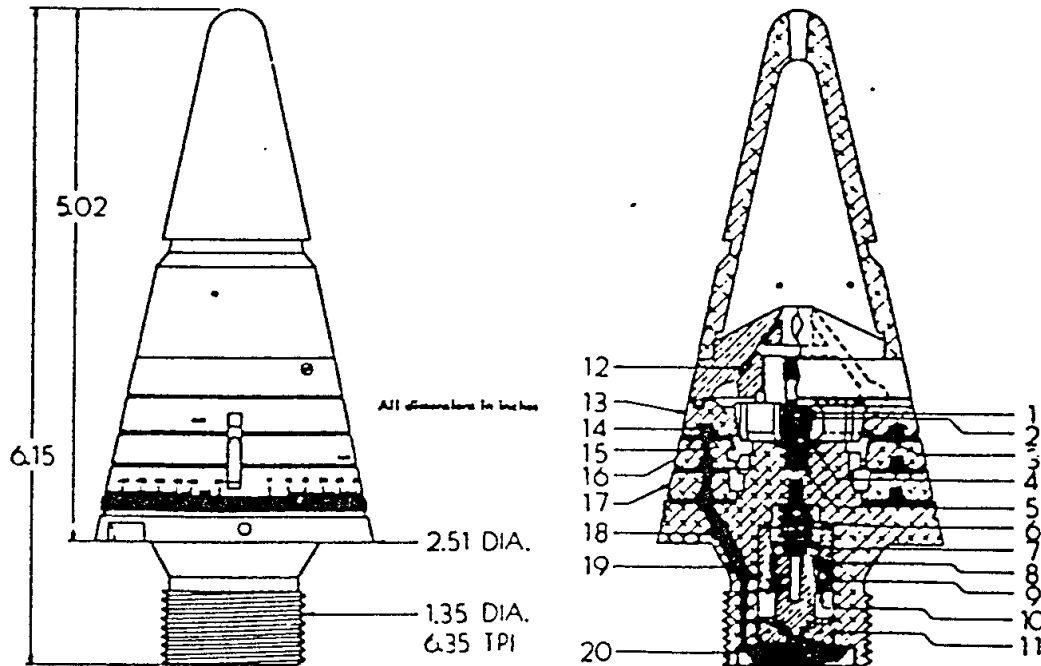
### Functional Data:

**Arming Method:** Setback  
**Self-destruct Method:** Time Setting  
**Safety Device:** Out-of-Line-Detonator

### Using Projectiles:

76mm FRAG O-361 and O361D  
 85mm FRAG O365

## 1.7 TIME AND SUPERQUICK T-6



### Fuse Data:

**Type:** Time/Impact  
**Model:** T-6  
**Body Material:** Aluminium  
**Weight:** 540g  
**Markings:** T-6  
**Length:** 156.2mm

### Using Weapons:

76mm Field Gun M1939/42  
 122mm Howitzer M1938  
 152mm Howitzer M1943  
 SU-76 SUPPORT Gun

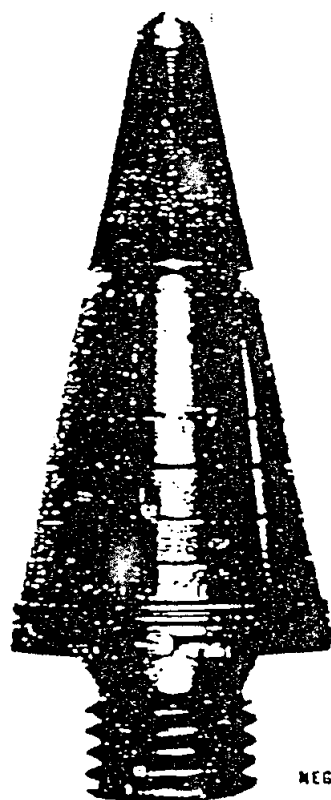
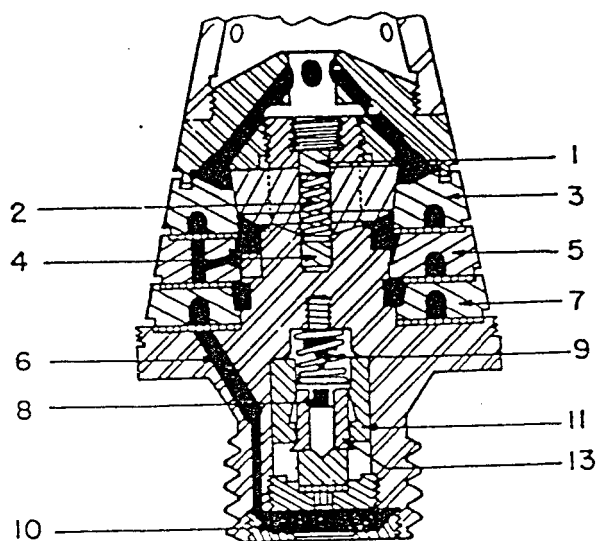
### Functional Data:

**Arming Method:** Setback  
**Self-destruct Method:** Timesetting  
**Safety Device:** Setback Springs

### Using Projectiles:

78mm,SHRAP,SH-354T/354U  
 122mm,ILLUM,S-462  
 122mm PROP,A-462  
 122mm,SHRAP,SH-460/SH-460T  
 152mm,SHRAP,SH-501T

### 1.8 TIME AND SUPERQUICK T-7



#### Fuse Data:

**Type:** Time/Impact  
**Model:** T-7  
**Body Material:** Aluminium  
**Weight:** 540g  
**Markings:** T-7  
**Length:** 157.4mm

#### Using Weapons:

122mm Howitzer M1938  
 152mm Howitzer M1943

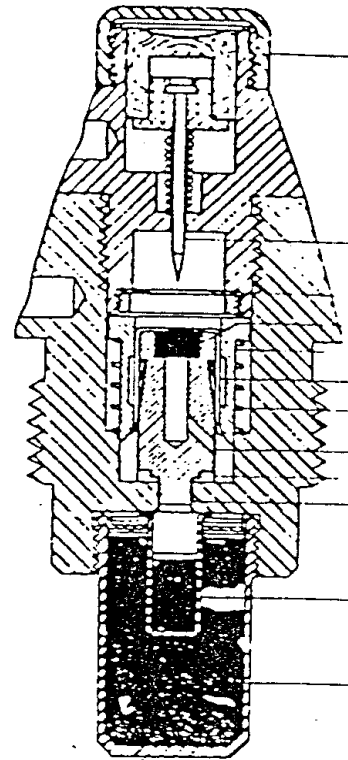
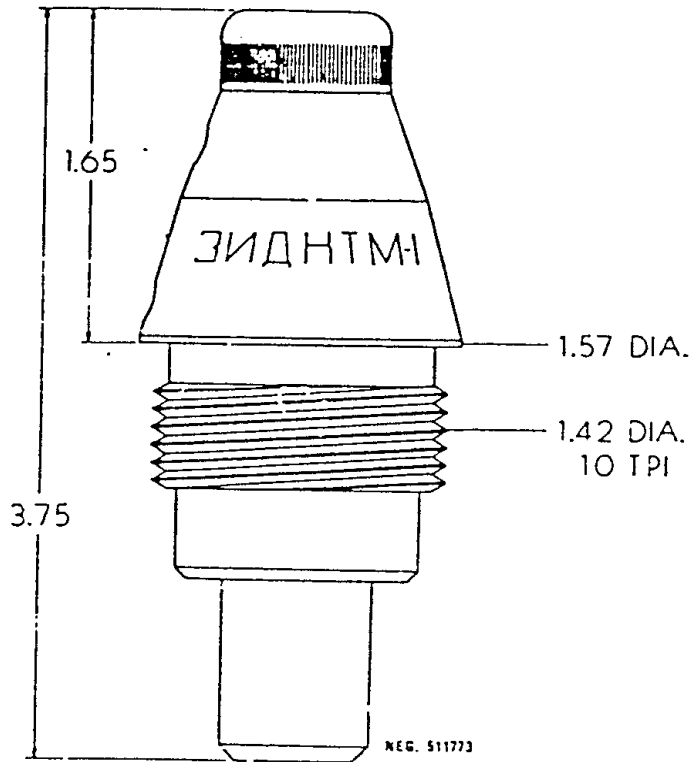
#### Functional Data:

**Arming Method:** Setback  
**Self-destruct Method:** Time Setting  
**Safety Device:** Shipping Cap and Setback springs

#### Using Projectiles:

122mm SHRAP,SH-460T  
 122mm ILLUM,5-462  
 122mm,PROP,A-462  
 152mm SHRAP,SH-501T

### 1.10 PD KTM-1



#### Fuse Data:

**Type:** Impact  
**Model:** KTM-1  
**Body Material:** Steel  
**Weight:** 367.4g  
**Markings:** (See at fuse)  
**Length:** 95.2mm  
 Gun

D-44

Guns

#### Functional Data:

**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Sleeve spring,  
 350A  
 Barrier in Flash Path

#### Using Weapons:

45mm AA Gun MMm1942  
 57mm AA Gun M1942/43  
 ASU-57 ASSAULT Gun  
 76mm Field Gun M1939/42  
 PT-76 TANK, SU-76 Support

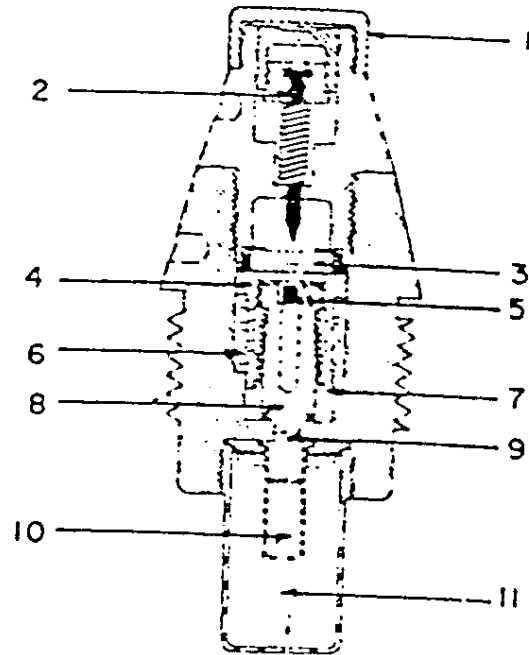
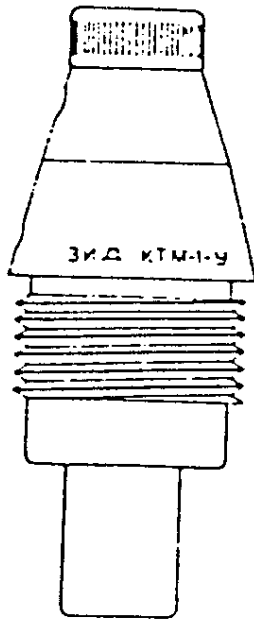
85mm AA Gun, KS-12,  
 85mm Auxiliary Roped AA Gun

85mm Tank Gun M1943,  
 ASU-85 and SU-85 Assault

#### Using Projectiles:

45mm FRAG, O-240, O-240A and O-240M  
 57mm FRAG, O271 and O271U  
 76mm FRAG-HE, OF-343, OF-350 and OF-350A  
 76mm FRAG, O350A  
 76mm SMOK, D-350A  
 76mm FRAG-GAS  
 85mm FRAG, O-365 and O-365K

### 1.11 PD KTM-1-U



#### Fuse Data:

**Type:** Impact  
**Model:** KTM-1-U  
 M1943  
**Body Material:** Steel  
 M1942  
**Weight:** 357.2g  
**Markings:** KTM-1-Y  
**Length:** 95.2mm

#### Using Weapons:

57mm Antitank Gun  
 76mm Divisional Gun  
 85mm AA Gun M1939  
 85mm Tank Gun M1944

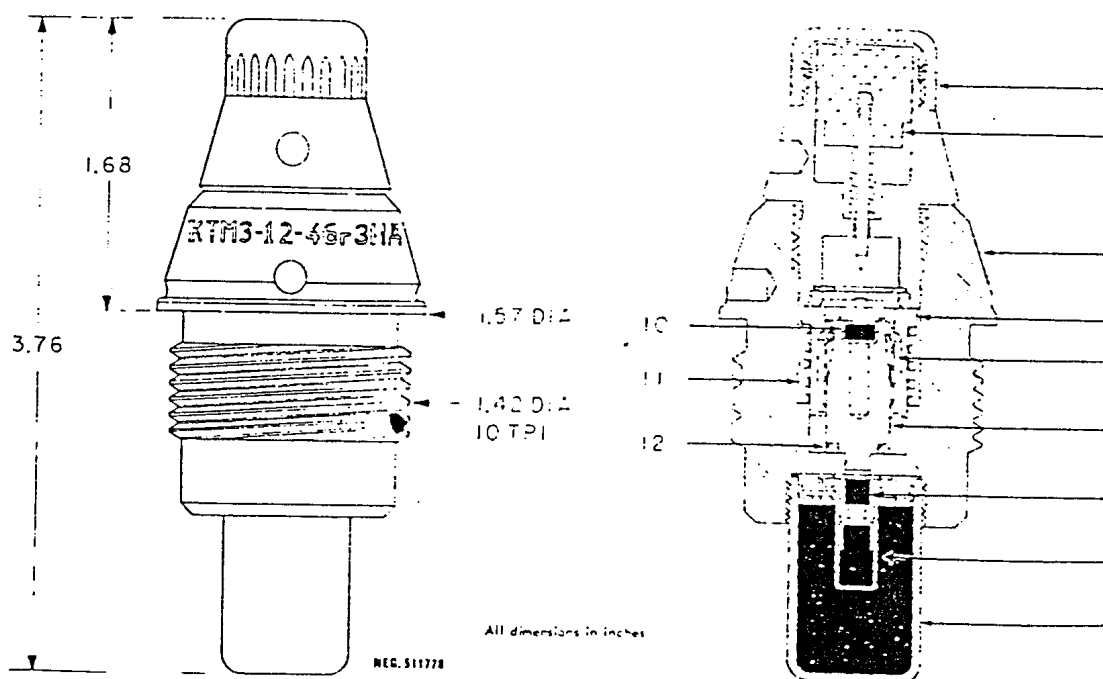
#### Functional Data:

**Arming Method:** Setback  
 271U  
**Self-destruct Method:** None  
 350,O350A,  
**Safety Device:** Setback Arming Sleeve

#### Using Projectiles:

57mm,FRAG O-271 and O-  
 76mm,FRAG O-  
 OF-343 and OF-350  
 85mm,FRAG,O-365K

### 1.12 PD KTMZ-1



#### Fuse Data:

**Type:** Impact  
**Model:** KTMZ-1  
**Body Material:** Steel  
**Weight:** 358.3g  
**Markings:** KTM3-1  
 Tank  
**Length:** 95.5mm  
 D-44  
 M1944

#### Using Weapons:

45mm Antitank Gun M1942  
 57mm Antitank Gun M1943  
 57mm ASSAULT Gun ASU-  
 76mm Field Gun M1939/42  
 76mm Support Gun SU-76, PT-76  
 85mm AA Gun KS-12 and 85mm Field Gun  
 SU-85 ASSAULT Gun and 85mm Tank Gun

#### Functional Data:

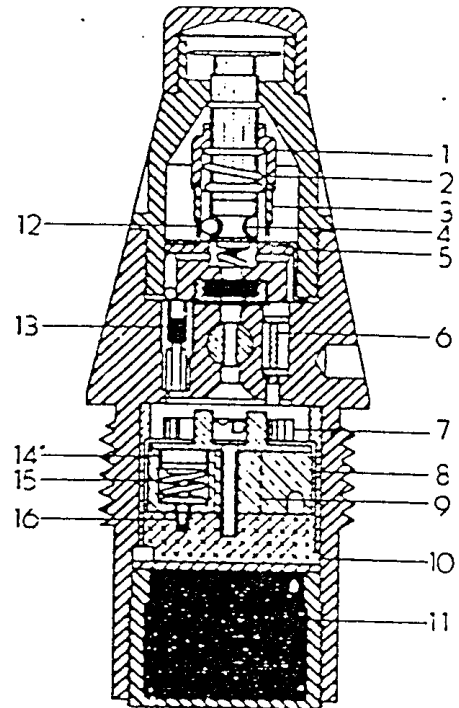
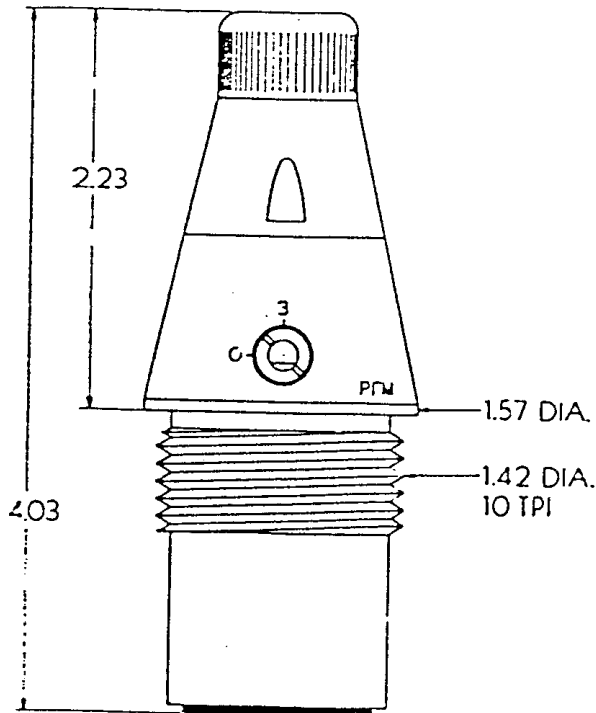
240M  
**Arming Method:** Setback  
**Self-destruct Method:** None  
 350A  
**Safety Device:** Barrier In Flashpath  
 365K

#### Using Projectiles:

45mm,FRAG,O-240A and O-  
 57mm,HE,O-271U and O271  
 76mm,HE,OF-350 and OF-  
 85mm,FRAG,O-365 and O-



### 1.13 PD RGM



#### Fuse Data:

**Type:** Impact  
**Model:** RGM  
**Body Material:** Steel  
**Weight:** 459g  
**Markings:** PrM  
**Length:** 102.3mm

#### Functional Data:

**Arming Method:** Setback, Spin  
**Self-destruct Method:** None  
**Safety Device:** Out-Of-Line Detonator 471,

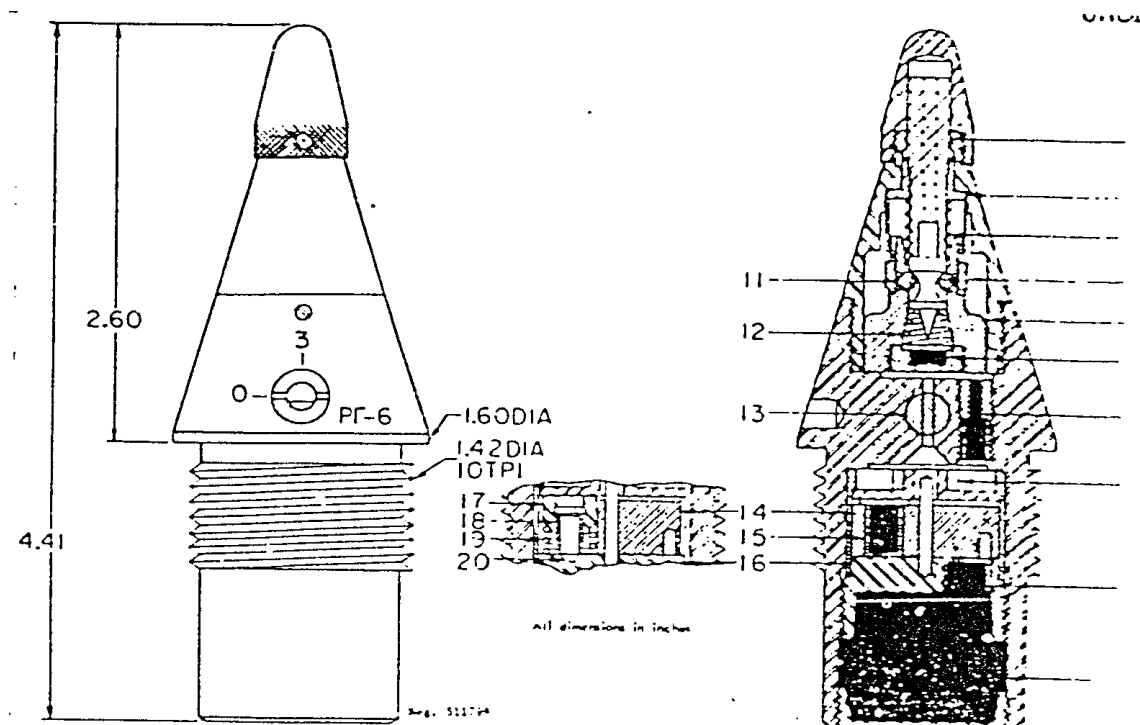
#### Using Weapons:

100mm Field Gun M1944  
 100mm Tank Gun D-10T  
 122mm Howitzer M1938  
 152mm Howitzer M1943  
 152mm Gun Howitzer

#### Using Projectiles:

100mm HE, F-412  
 100mm FRAG  
 OF-471N 122mm FRAG-HE, OF-  
 And OF-462  
 152mm FRAG, O-530A and O-

## 1.14 PD RG-6



### Fuse Data:

**Type:** Impact  
**Model:** RG-6  
**Body Material:** Steel  
**Weight:** 459g  
**Markings:** P"Pr"-6  
**Length:** 112mm

### Using Weapons:

122mm Howitzer M1938  
 152mm Howitzer Gun M1937  
 152mm Howitzer M1938/43

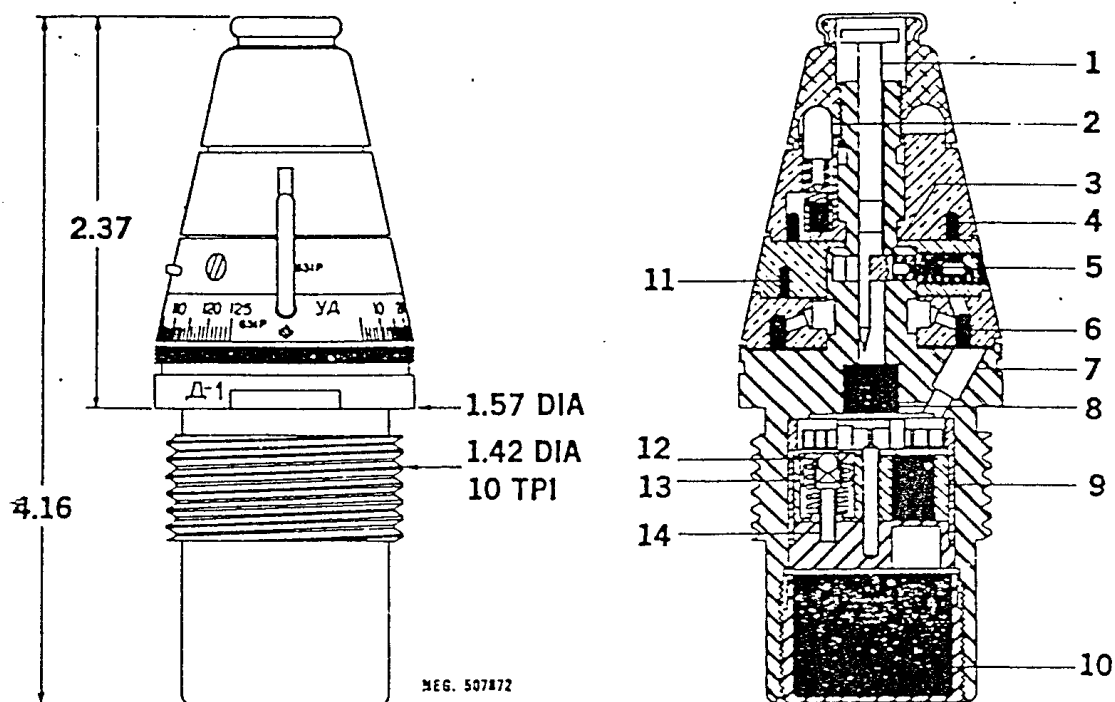
### Functional Data:

**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Out-Of-Line Detonator

### Using Projectiles:

122mm FRAG-HE , OF-462  
 122mm FRAG, O-452A  
 152mm FRAG-HE, OF-530  
 152mm FRAG, O530A

### 1.15 TIME AND SUPERQUICK D-1



#### Fuse Data:

**Type:** Time/Impact  
**Model:** D-1  
 M1931/37  
**Body Material:** Brass  
**Weight:** 431g  
**Markings:** 631P  
**Length:** 105.6mm

#### Using Weapons:

122mm Field Gun  
 122mm Howitzer M1938  
 122mm Tank Gun M1943  
 152mm Howitzer M1937/43

#### Functional Data:

**Arming Method:** Setback  
 471  
**Self-destruct Method:** Time setting  
**Safety Device:** Out-Of-Line Detonator

#### Using Projectiles:

122mm FRAG-HE OF-462, OF-471N  
 and 471N  
 152mm FRAG, O-530A, OF-530, OF-530A, OF-540 and OF-540B

### 1.16 PIBD BM



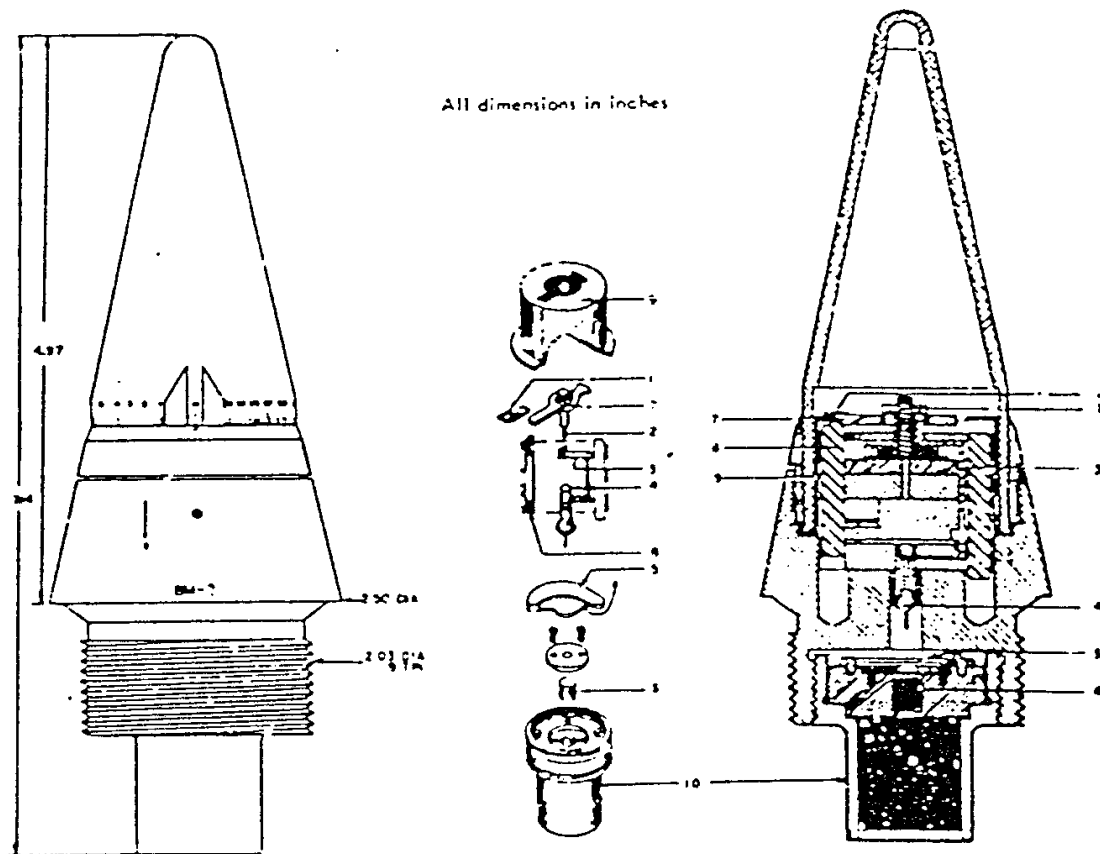
**Fuse Data:**  
**Type:** Impact  
**Model:** BM  
**Body Material:** Steel  
**Weight:** 27.2g  
**Markings:** bm  
**Length:** 33.5mm

**Using Weapons:**  
76mm Field Gun M1942/43  
SU-76 Support Gun  
PT-76 Tank

**Functional Data:**  
**Arming Method:** Setback and Spin  
**Safety Device:** Firing-Pin Retaining Ball

**Using Projectiles:**  
76mm HEAT, BP-350M and BP-353A  
**Self-destruct Method:** None

## 1.17 MECHANICAL TIME VM-2



### Fuse Data:

**Type:** Time  
**Model:** VM-2  
 KS-18  
**Body Material:** Aluminium  
**Weight:** ???g  
**Markings:** BM-2  
**Length:** 181.3mm

### Using Weapons:

85mm AA Guns KS-12 and

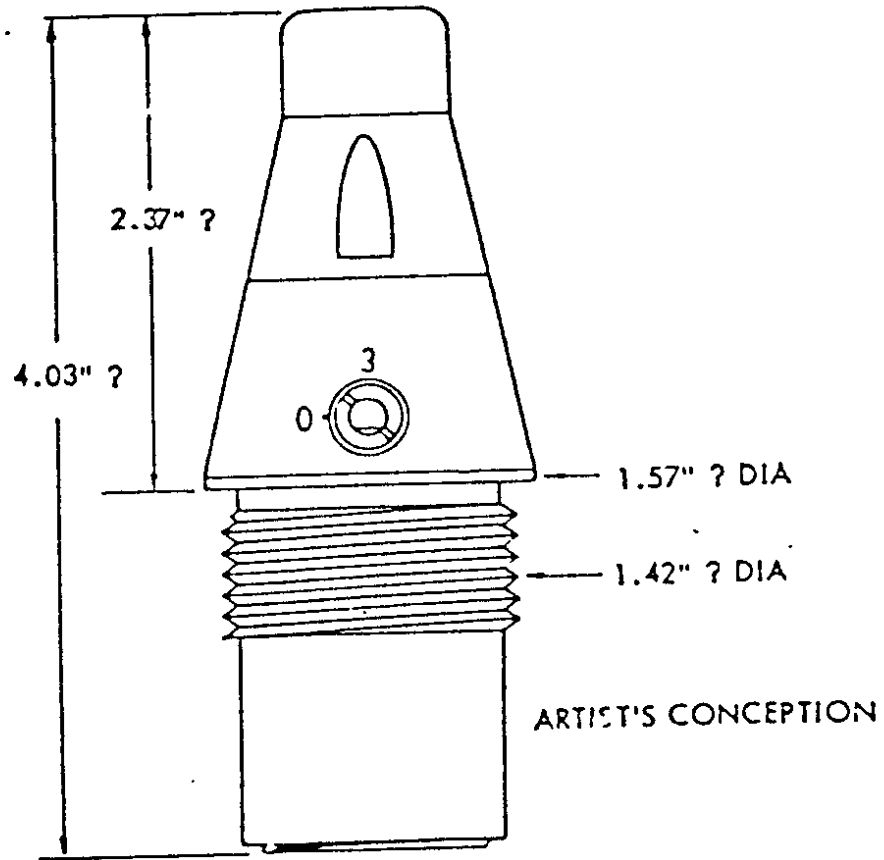
### Functional Data:

**Arming Method:** Setback and Spin  
**Self-destruct Method:** Time Setting  
**Safety Device:** Obstructed Path To Detonator

### Using Projectiles:

85mm FRAG,O-365M

1.18 PD RGM-6



**Fuse Data:**

**Type:** Impact  
**Model:** RGM-6  
**Body Material:** Steel  
**Weight:** 456g  
**Markings:** PrM-6  
**Length:** 102.3mm

**Using Weapons:**

122mm Howitzer M1938  
 152mm Howitzer M1943

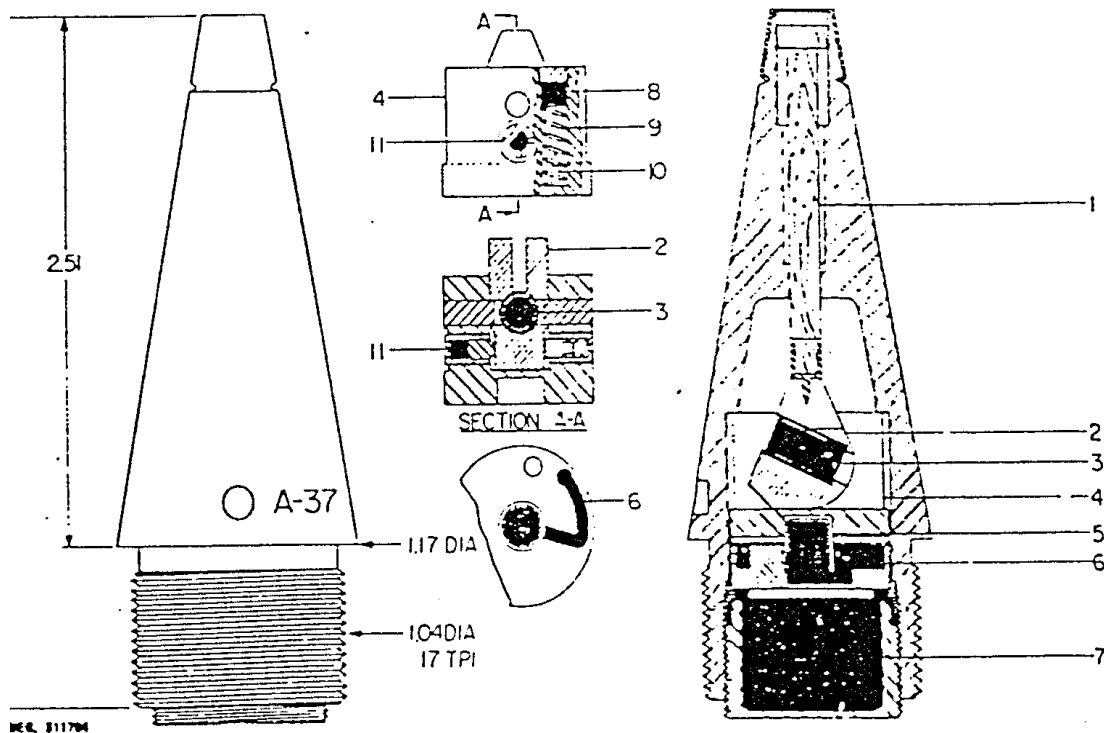
**Functional Data:**

**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Out-Of-Line Detonator

**Using Projectiles:**

122mm HE, OF-462, OF-462A  
 F-460 and F-460A  
 152mm HE, OF-530, OF-530A  
 F-530 and F530

### 1.19 PD SELF-DESTROYING A-37



#### Fuse Data:

**Type:** Impact and Self-destroying  
**Model:** A-37  
**Body Material:** Steel  
**Weight:** 176.9g  
**Markings:** A-37  
**Length:** 83.3mm

#### Using Weapons:

37mm AA Cannon Model N-37

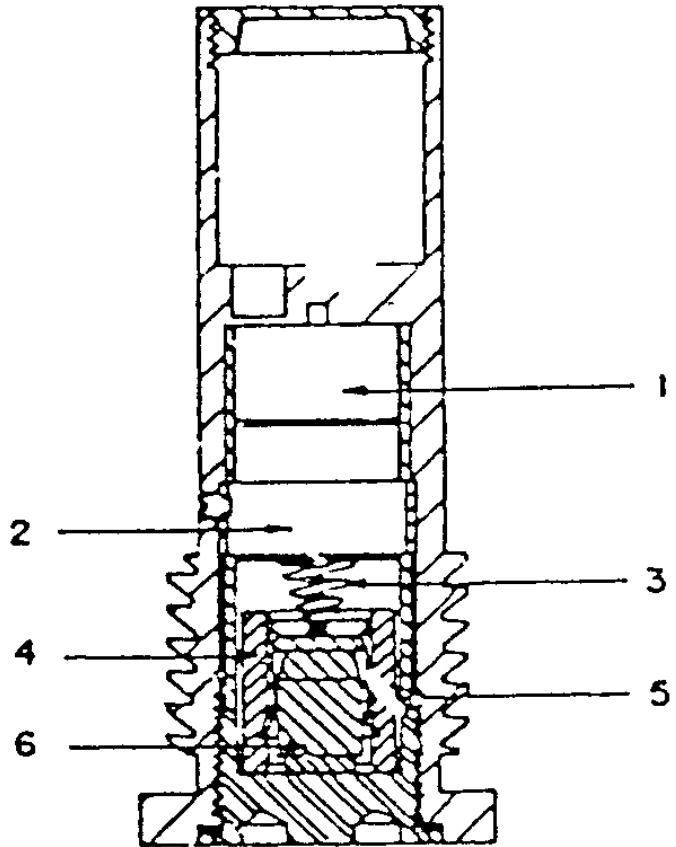
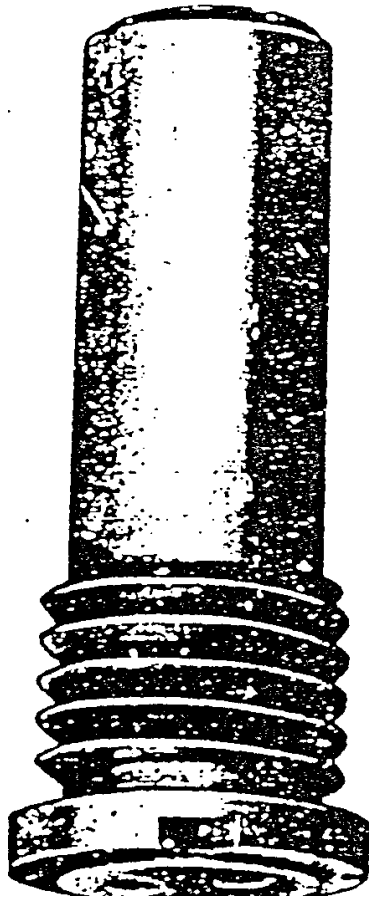
#### Functional Data:

**Arming Method:** Spin  
**Self-destruct Method:** Power Train  
**Safety Device:** Out-Of-Line Primer

#### Using Projectiles:

37mm HE-I Cartridge Type

## 1.20 BASE-DETONATING MR-Z



### Fuse Data:

**Type:** Impact  
**Model:** MR-Z  
**Body Material:** Steel  
**Weight:** 285,7g  
**Markings:** MP-3  
**Length:** 89.1mm

### Using Weapons:

130mm Field Gun M-46

### Functional Data:

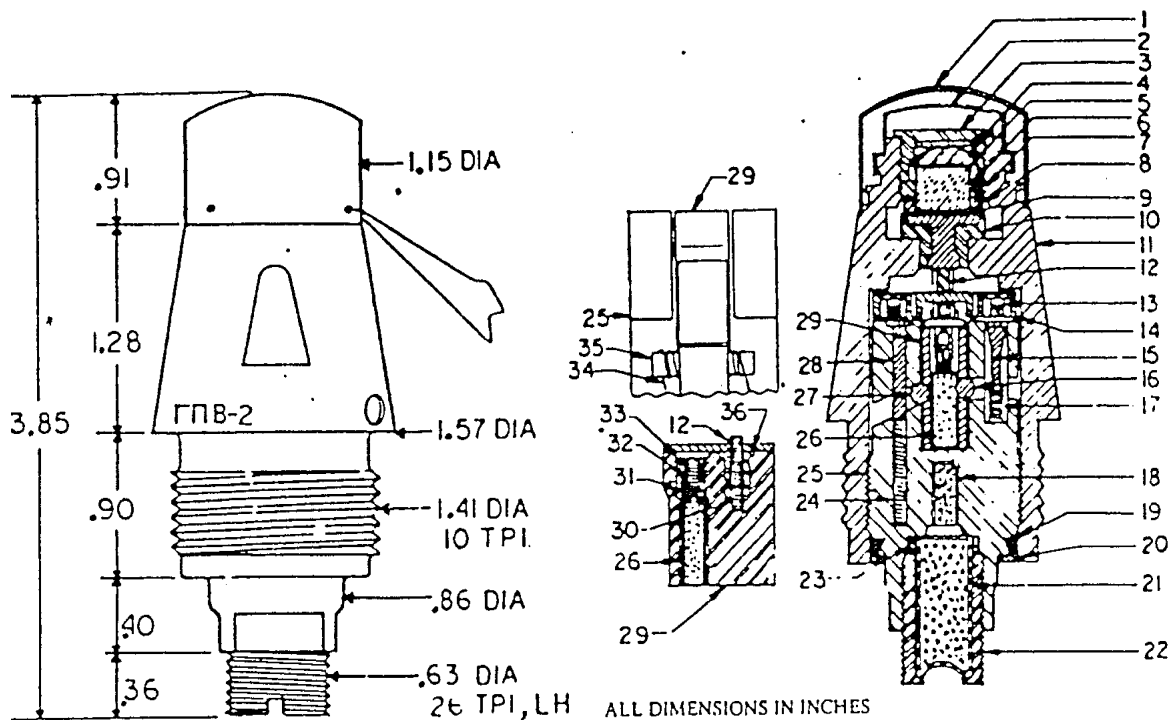
**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Out-Of-Line Detonator

### Using Projectiles:

130mm CP, G-7  
130mm AP, BR-482



## 1.21 PIBD GPV-2



### Fuse Data:

**Type:** PIBD  
**Model:** GPV-2  
 Tank  
**Body Material:** Aluminium  
**Weight:** 191g  
 Tank  
**Markings:** B-2  
**Length:** 98mm

### Using Weapons:

ALL ECC. 76,85 and 100mm  
 and Field Gun.  
 115mm Gun U-5TS on T62  
 122mm Howitzer Model D-30

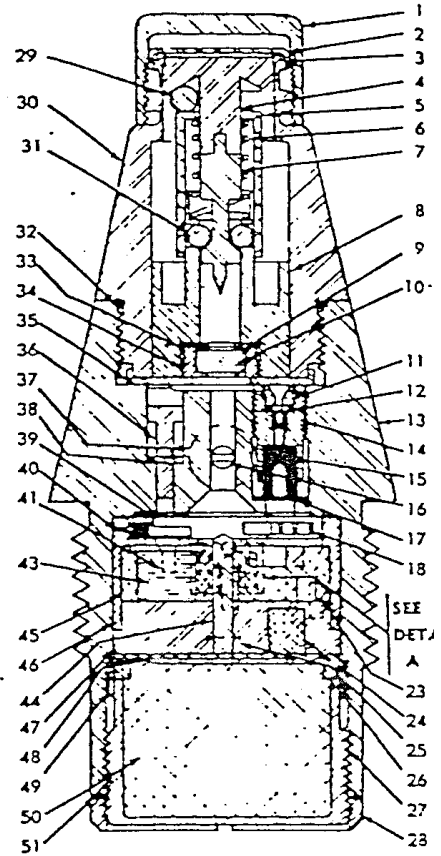
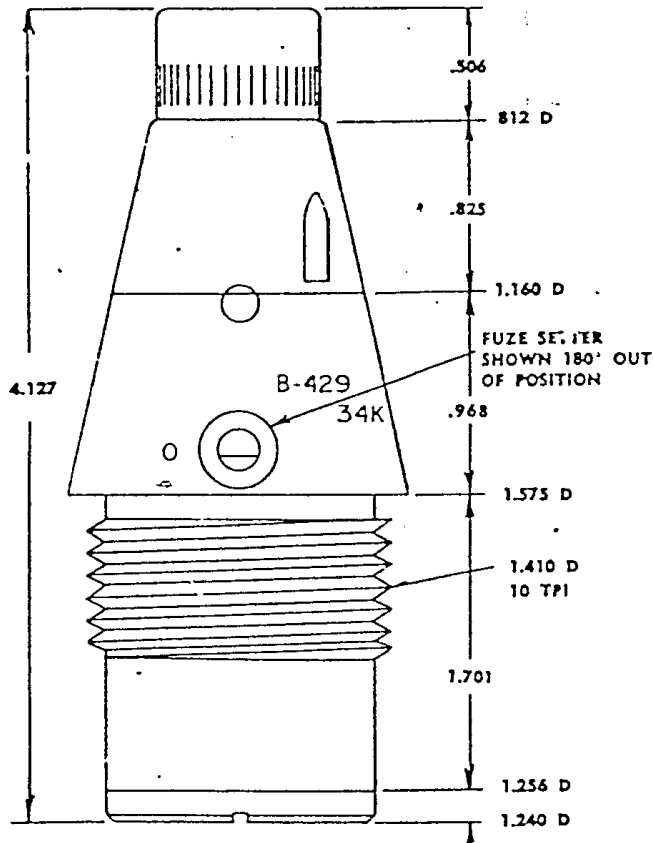
### Functional Data:

**Arming Method:** Setback  
 354 M  
**Self-destruct Method:** None  
 M  
**Safety Device:** Out-Of-Line Detonator  
 M  
 Electrical Disconnect Protective Cap  
 M  
 M

### Using Projectiles:

76mm HEAT-FS Model BK-  
 85mm HEAT-FS Model BK-2  
 100mm HEAT-FS Model ZBK-5  
 115mm HEAT-FS Model BK-4  
 122mm HEAT-FS Model BK-6

## 1.22 PD V-429



### Fuse Data:

**Type:** Point-Detonating  
**Model:** V-429  
**Body Material:** Steel  
**Weight:** 440g  
**Markings:** B-429  
**Length:** 105mm

### Using Weapons:

122mm D 74 Field Gun  
 122mm D 30 Howitzer  
 130mm M46 Field Gun  
 152mm D20 Howitzer

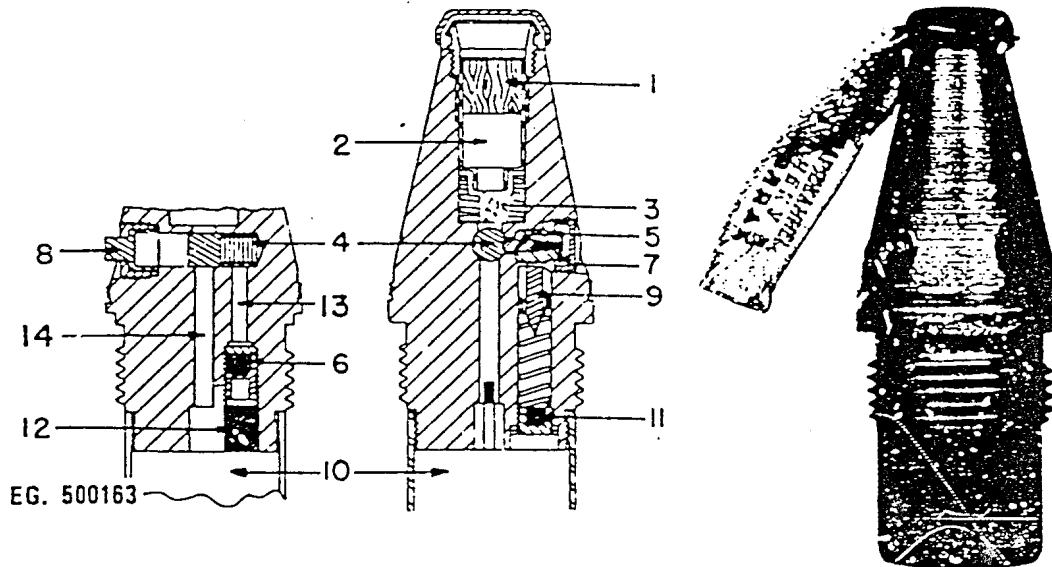
### Functional Data:

**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Out-Of-Line Detonator

### Using Projectiles:

100mm FRAG-HE OF-412 and OF-412U  
 122mm FRAG-HE OF-472  
 130mm FRAG-HE OF-482  
 152mm FRAG-HE OF-540

### 1.23 PD GVMZ-7



#### Fuse Data:

**Type:** Point-Detonating  
**Model:** GVMZ-7  
**Body Material:** Steel  
**Weight:** 481g  
**Markings:** KBM-3-7 3500  
**Length:** 106.4mm

#### Using Weapons:

122mm Howitzer M1938  
 152mm Howitzer M1943

#### Functional Data:

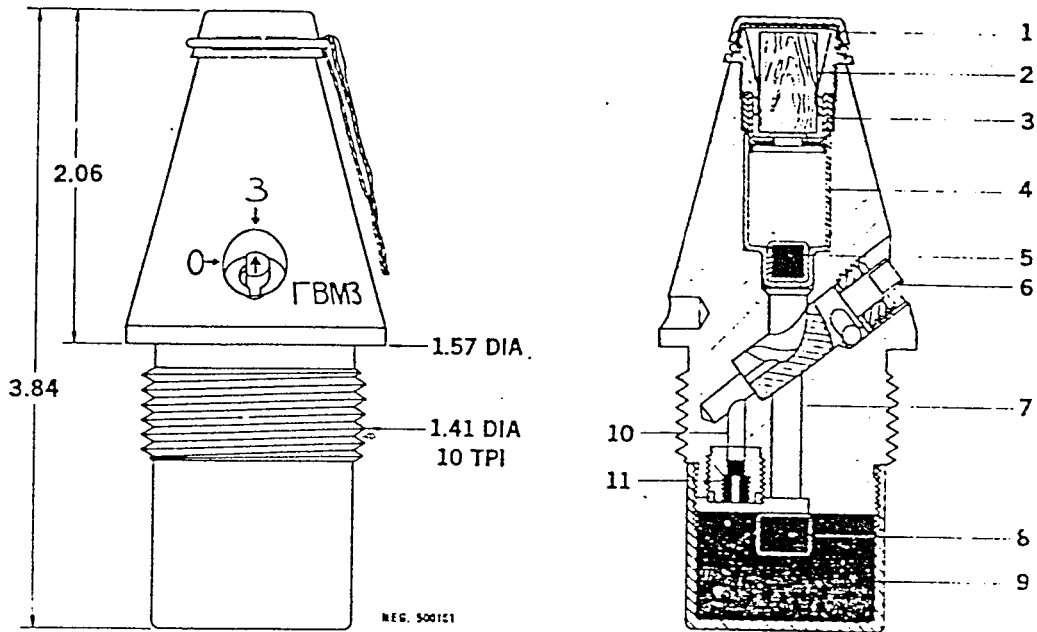
**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Shipping cap W/ wire,  
 And interrupter

#### Using Projectiles:

122mm FRAG, OF-462A  
 152mm FRAG-HE, OF-534G  
 and OF-534AG

## 2. MORTAR FUSES

### 2.1 PD GVMZ



#### Fuse Data:

**Type:** Point Detonating  
**Model:** GVMZ  
**Body Material:** Steel  
**Weight:** 430.9g  
**Markings:** RBM3 34K  
**Length:** 64.5mm

#### Using Weapons:

120mm Mortar M1938  
 120mm Mortar M1943

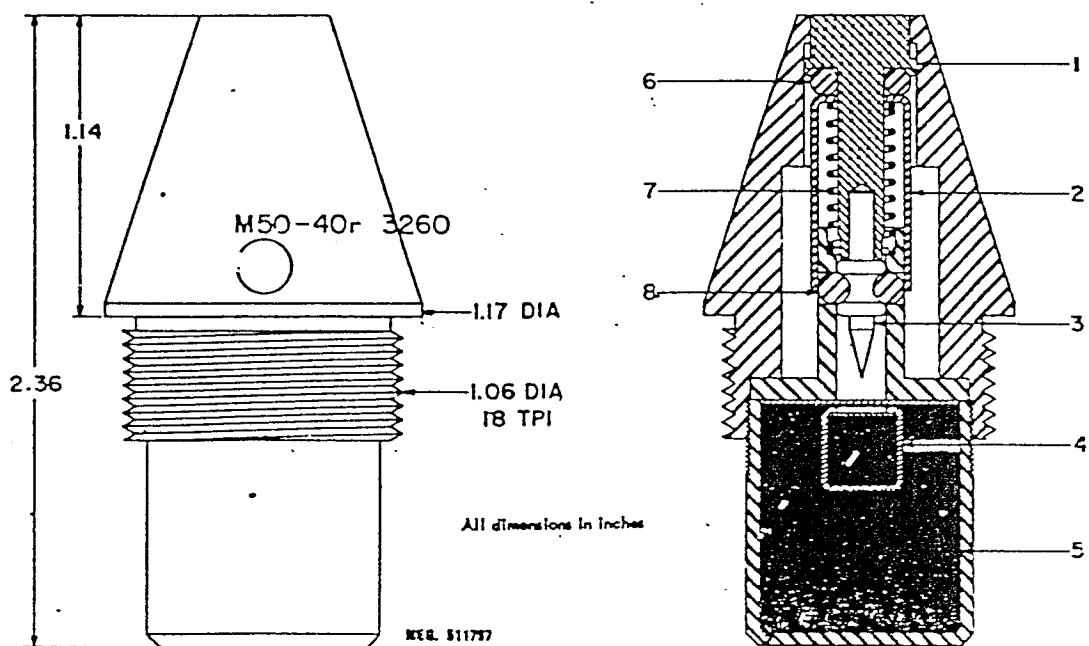
#### Functional Data:

**Arming Method:** N/A  
**Selv-destruct Method:** None  
**Safety Device:** Safety -Cap

#### Using Projectiles:

120mm,FRAG-HE OF-843A  
 120mm FRAG-HE OF 843  
 120mm SMOKE, D-843A

## 2.1 PD M-50



### Fuse Data:

**Type:** Point-Detonating  
**Model:** M-50  
**Body Material:** Steel  
**Weight:** 113g  
**Markings:** M50-40  
**Length:** 59.9mm

### Using Weapons:

50mm Mortars M1938/40/41

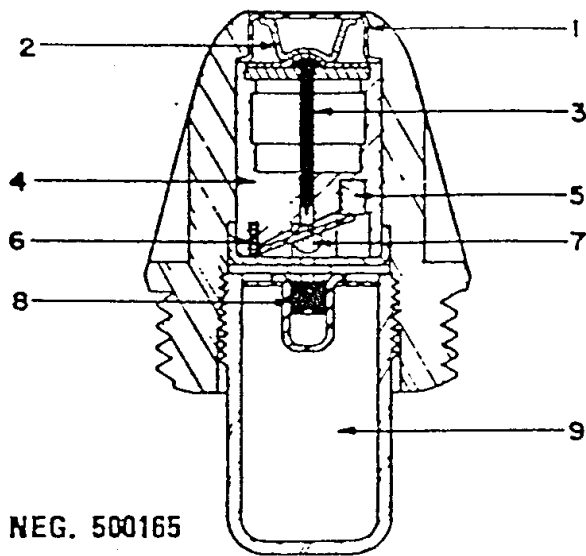
### Functional Data:

**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Check Balls and Spring

### Using Projectiles:

50mmFRAG O-822,O-822A  
and O-822SH

**2.2 PD MP-82**



**Fuse Data:**

**Type:** Point-Detonating  
**Model:** MP-82  
**Body Material:** Phenolic  
**Weight:** 68g  
**Markings:** MP-82  
**Length:** 65.5mm

**Using Weapons:**

82mm Mortars M1937/41/43

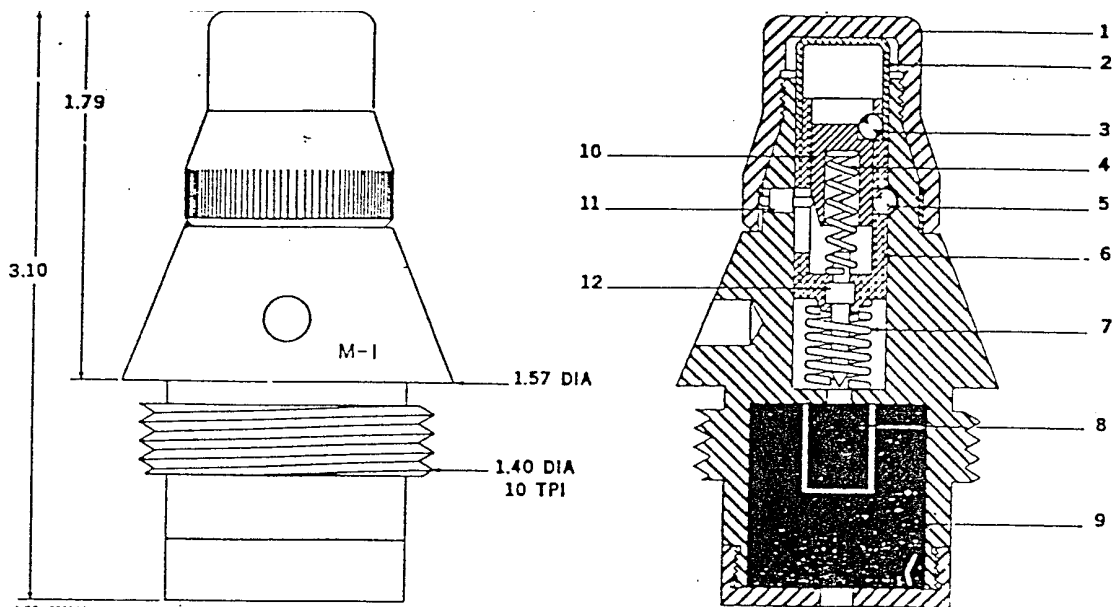
**Functional Data:**

**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Mechanical Block (slider)

**Using Projectiles:**

82mm FRAG,O-832

### 2.3 PD M-1



#### Fuse Data:

**Type:** Point-Detonating  
**Model:** M-1  
**Body Material:** Steel  
**Weight:** 249.5g  
**Markings:** M-1  
**Length:** 78.7mm

#### Using Weapons:

50mm Mortar M1940  
 82mm Mortar M1937/42/43  
 120mm Mortar M1943

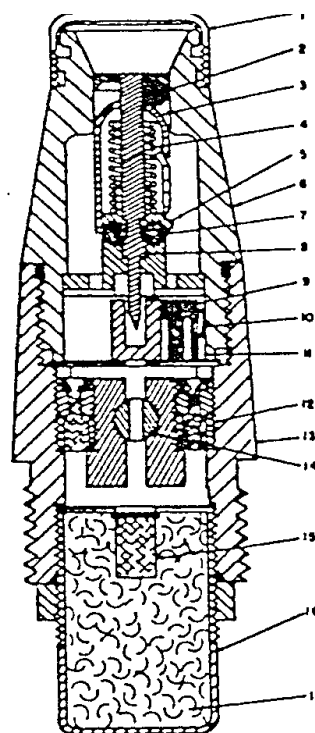
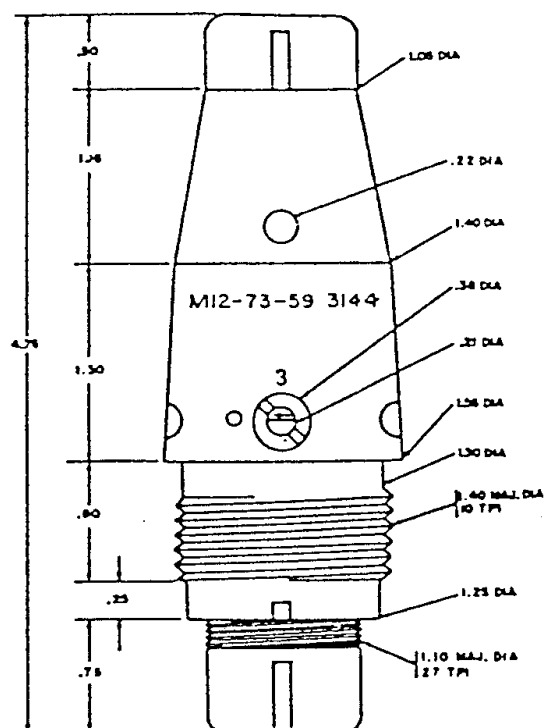
#### Functional Data:

**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Springs and Locking Balls

#### Using Projectiles:

50mm FRAG, O-822A,O-822SH  
 82mm FRAG,O-832D,O-832DO-832  
 82mmSMOKE DDD-832  
 120mm INCENDIARY Z-843A

## 2.4 PD M-12



### Fuse Data:

**Type:** Point-Detonating  
**Model:** M-12  
**Body Material:** Steel  
**Weight:** 536g  
**Markings:** M-12  
**Length:** 119mm

### Using Weapons:

120mm Mortar M1943

### Functional Data:

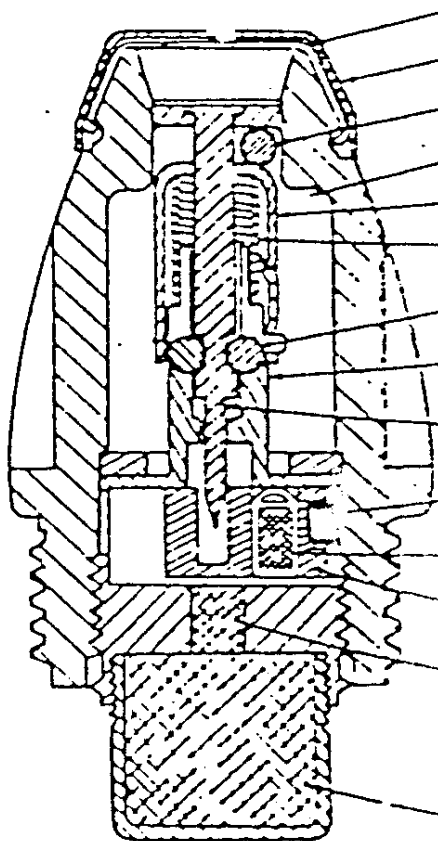
**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Out-Of-Line Primer  
 Zig Zag Slot, Locking Balls

### Using Projectiles:

120mm FRAG-HE, OF-843A  
 120mm HE, F-843



**2.5 PD M-6**



**Fuse Data:**

**Type:** Point-Detonating  
**Model:** M-6  
**Body Material:** Plastic  
**Weight:** 155.9g  
**Markings:** M-6  
**Length:** 82.6mm

**Using Weapons:**

82mm Mortar M1937/42/43

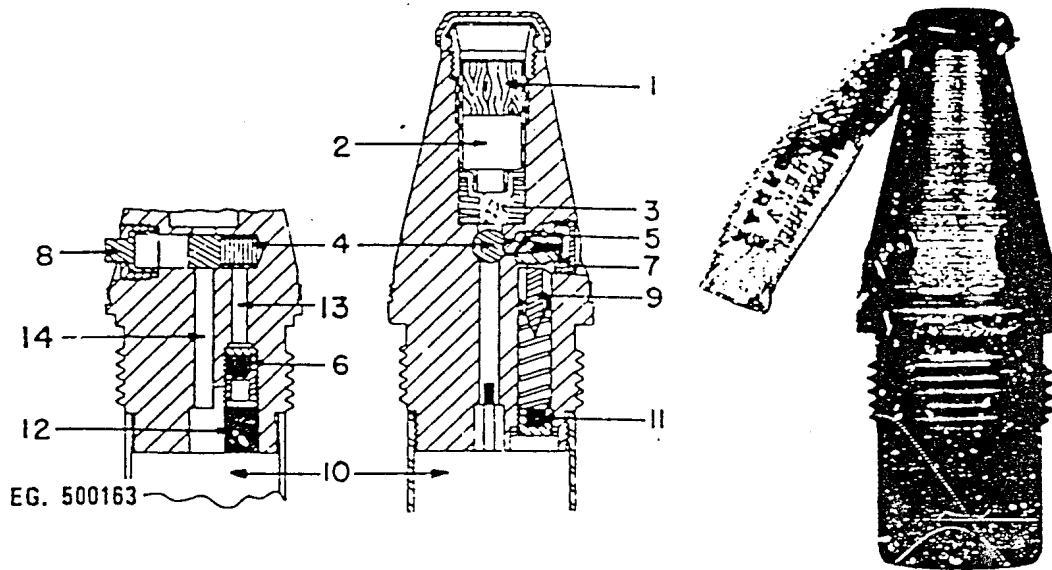
**Functional Data:**

**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Out-Of-Line Detonator  
Zig Zag Slot

**Using Projectiles:**

82mm FRAG, O-832D  
and O-832DU

## 2.6 PD GVMZ-7



### Fuse Data:

**Type:** Point-Detonating  
**Model:** GVMZ-7  
**Body Material:** Steel  
**Weight:** 481g  
**Markings:** KBM-3-7 3500  
**Length:** 106.4mm

### Using Weapons:

107mm Mortar M1938  
 120mm Mortar M1938/43  
 160mm Mortar M1943  
 160mm Mortar M-160

### Functional Data:

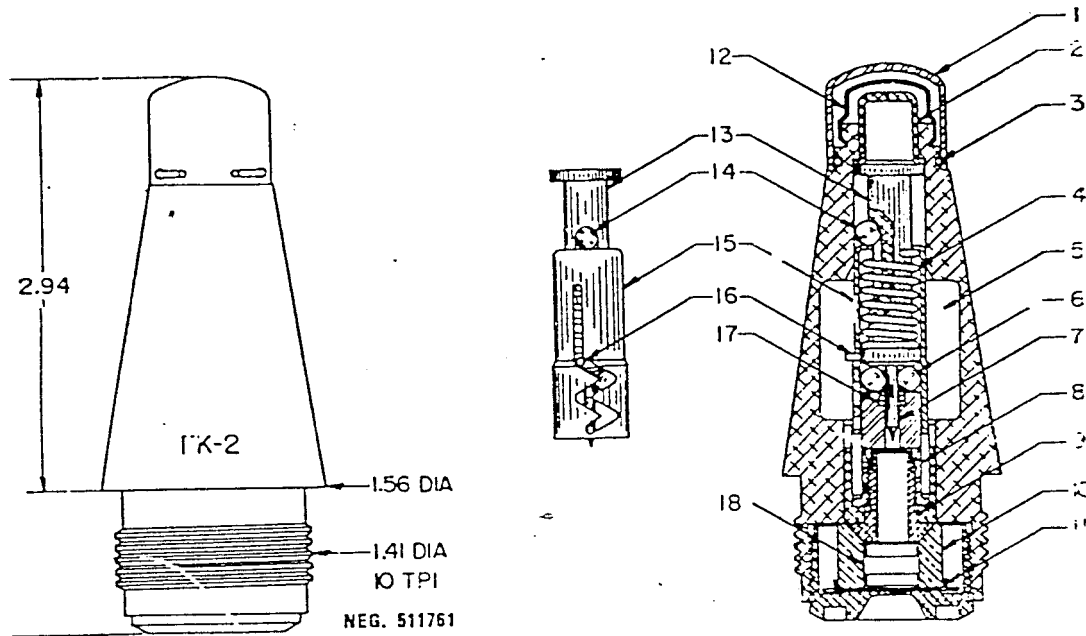
**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Shipping cap W/ wire,  
 And interrupter

### Using Projectiles:

107mm FRAG-HE, OF-841A  
 120mm FRAG-HE, OF-843  
 120mm HE, F-843  
 160mm HE, F-852, F-853U and  
 F-853A

### 3. RECOILLESS FUSES

#### 3.1 PD GK-2



#### Fuse Data:

**Type:** Point detonating  
**Model:** GK-2  
**Body Material:** Aluminium  
**Weight:** 170.1g  
**Markings:** RK-2  
**Length:** 101.3mm

#### Using Weapons:

82mm Recoilless gun M-10  
 107mm Recoilless gun M-11

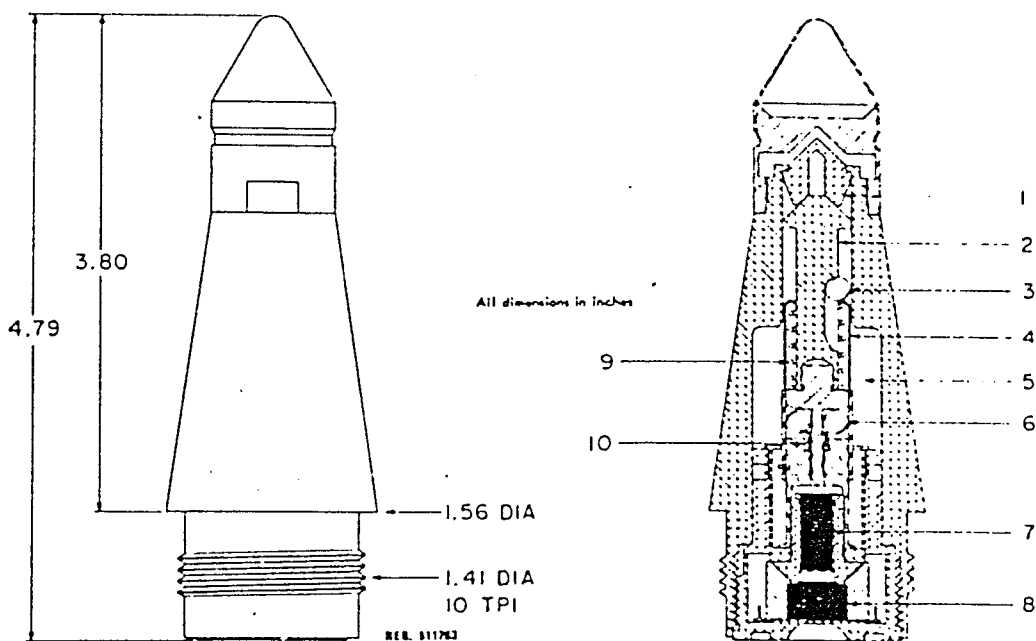
#### Functional Data:

**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Safety cap and firing pin  
 Retaining balls, zig zag delay slot

#### Using Projectiles:

82mm FRAG, O-881A  
 82mm HEAT, BK-881  
 107mm FRAG-HE, OF-883A  
 107mm HEAT, BK-883

### 3.2PD GK-2M



#### Fuse Data:

**Type:** Point Detonating  
**Model:** GK-2M  
**Body Material:** Aluminium  
**Weight:** 209.9g  
**Markings:** GK-2M,3144,II-60  
**Length:** 121.7mm

#### Using Weapons:

82mm Recoilless gun M-10  
 107mm Recoilless gun M-11

#### Functional Data:

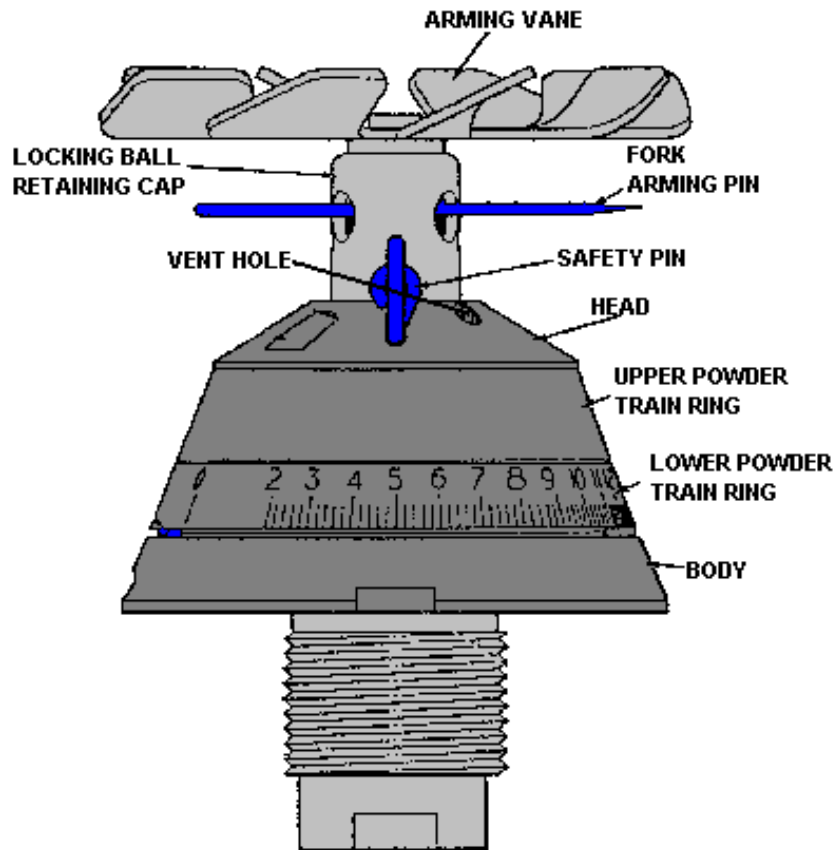
**Arming Method:** Setback  
**Self-destruct Method:** None  
**Safety Device:** Safety cap and firing pin  
 Retaining balls, zig zag delay slot

#### Using Projectiles:

82mm FRAG, O-881A  
 82mm HEAT, BK-881  
 107mm FRAG-HE, OF-883A  
 107mm HEAT, BK-883

## 4. BOMB FUSES

### 4.1 AGDT-A and B



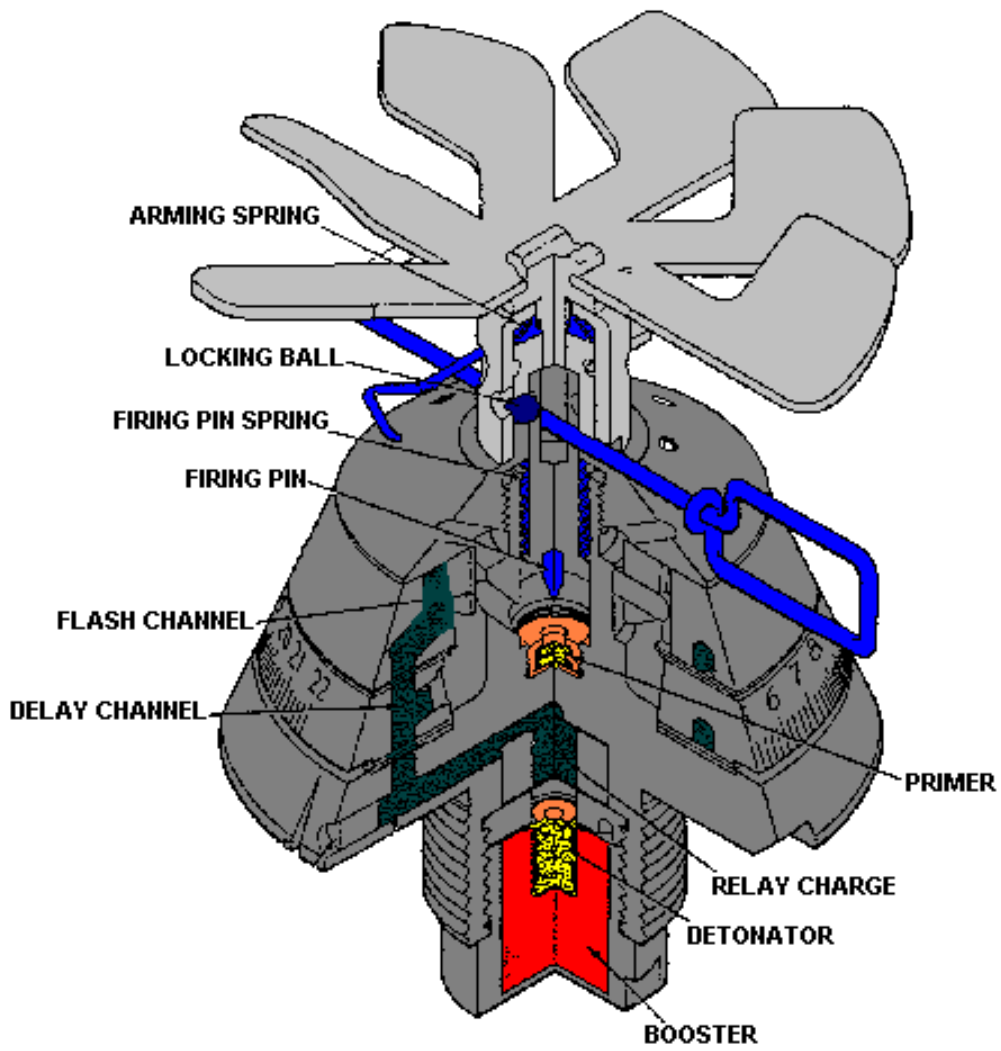
#### **WARNINGS**

- 1) Do not move or jar a bomb. The fuse contains a cocked firing pin and an inline firing train.
- 2) Do not manually remove a fuse from a photoflash bomb. The bomb booster' charge or photoflash powder may be in the fuse threads.
- 3) Wait at least 30 minutes before approaching a suspected dud-fired fuse. A delay function may be caused by deterioration or dampness which prolongs the burning time of the powder train, or by a hung firing pin overcoming a mechanical obstruction and initiating the powder train in the fuse.
- 4) Do not approach an armed fuse for 30 minutes after removal from a bomb. The fuse contains a powder train time delay that is initiated by a cocked firing pin.

**TYPE:** Time  
**MODEL:** AGDT-A/B  
**MATERIAL:** Aluminium  
**WEIGHT:** ???  
**MARKINGS:** AGDT-A or B  
**LENGTH:** 88.1mm

#### **FUNCTIONAL DATA**

**ARMING-** Dropping Away of Vane-  
**METHOD:** Assembly  
**SELF-DESTRUCT:** Time Setting  
**SAFETY-DEVICE:** Arming Wires



### **ARMED**

The fuse is armed if the arming wire device, fork-type-arming pin, and safety pin are missing, or if the locking ball retaining cap is crushed or missing

### **UNARMED**

The fuse is unarmed if. The arming wire device fork-type-arming pin or safety pin is in place, and the locking ball retaining cap is not crushed

### **USING PROJECTILES**

82mm Rocket Model RS-82

132mm Rocket Model RS-132

**BOMBS** AO-10, AO-20M3, AO-25, AO-100, AOKH-10, AOKH-15, KHAB-25, KHAB-200, KHAB-500, KRAB-25, FOTAB

### **HAZARDOUS**

The AGDT-A fuse contains a primer, pyrotechnic in the powder train rings and the body, relay charge, detonator, and booster. The compositions and weights of these elements are unknown. The AGDT-B fuse contains the same elements, except that an ignition charge replaces the detonator and booster.

### **USING WEAPONS:**

82mm 48-RD ROC: Launcher

82mm M-8 ROC: launcher

82mm Aircraft ROC: launcher M-13

132mm Aircraft ROC: launcher M-132

## RSP-AGDT-A and AGDT-B

### RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

#### **SPECIAL WARNING**

This procedure is untested and is based on the best technical data available.

#### **WARNINGS**

Do not move or jar a bomb. The fuse contains a cocked firing pin and an inline firing train.

Do not manually remove a fuse from a photoflash bomb. The bomb booster charge or photoflash powder may be in the fuse threads. For fuses installed in photoflash bombs,

- a) Secure arming wire device, fork—type arming pin, or safety pin, or use Other means to prevent arming vane rotation.
- b) Using wrench or other tool, manually remove fuse from bomb by turning counter clockwise.
- c) Proceed to disposal procedure.

### RENDER SAFE PROCEDURE FOR ARMED CONDITION.

#### **SPECIAL WARNING**

This procedure is untested and is based on the best technical data available.

#### **WARNINGS**

Do not move or jar a bomb. The fuse contains a cocked firing pin and an inline firing train.

Wait at least 30 minutes before approaching a suspected dud—fired fuse. A delay function may be caused by deterioration or dampness which prolongs the burning time of the powder train, or by a hung firing pin overcoming a mechanical obstruction and initiating the powder train in the fuse.

Do not approach an armed fuse for 30 minutes after removal from a bomb. The fuse contains a powder train time delay that is initiated by a cocked firing pin.

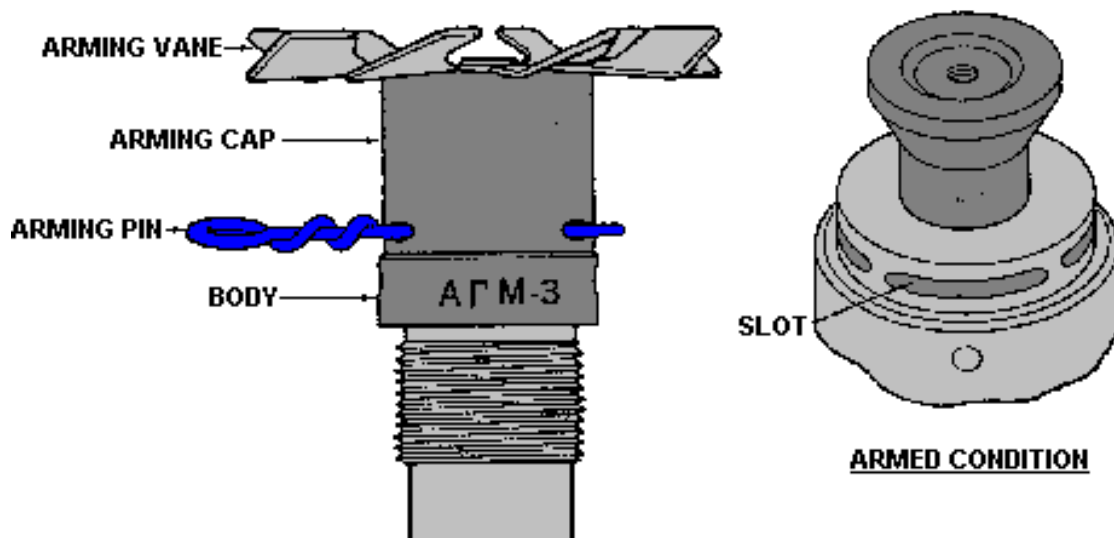
- a) Use a rocket wrench
- b) If rocket wrench is not available, proceed to disposal procedure( step b)
- c) Remove fuse
- d) Proceed to disposal procedure

#### **DISPOSAL PROCEDURE**

- a) Transport hazardous components to disposal area
- b) Dispose of by detonation



## 4.2 AGM-1



### WARNINGS

- 1) Do not remove a fuse from a bomb that may contain picric acid, black powder, or toxic chemicals. Sensitive explosives or chemicals may present in the fuse well.
- 2) Do not move or depress the striker or  
The impact disk on an armed fuse.  
The fuse has an in-line firing train.

### REMARKS

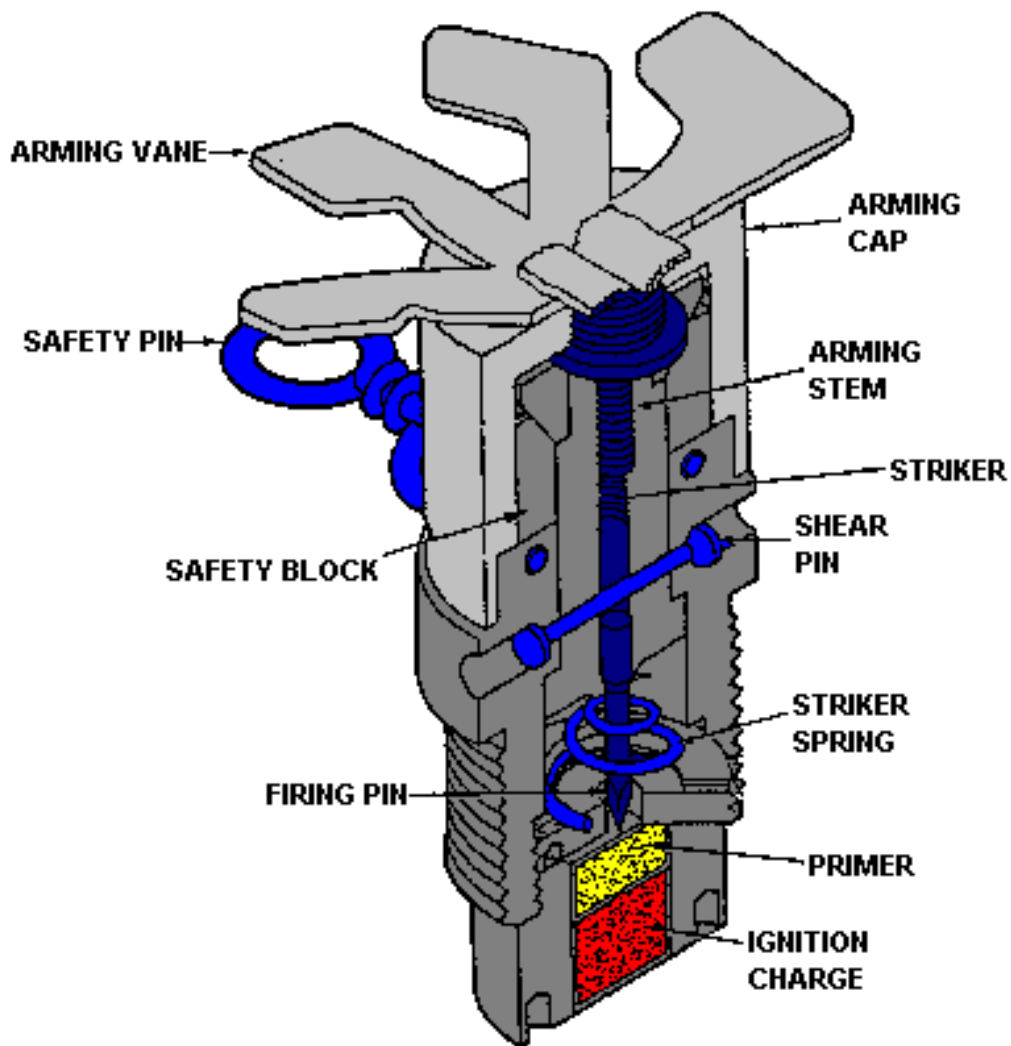
The AGM-1 and AGM-3 is similar,  
There are small differences

### FUSE DATA

**TYPE:** Impact  
**MODEL:** AGM-1  
**MATERIAL:** Brass and Aluminium  
**WEIGHT:** 272.3g  
**MARKINGS:** AGM-1  
**LENGTH:** 76.6mm

### FUNCTIONAL DATA

**ARMING-** Dropping away of vane  
**METHOD:** assembly  
**SELF-**  
**DESTRUCT:** None  
**SAFETY-**  
**DEVICE:** Arming pin and shear pin



**ARMED**

The fuse is armed if the safety pin, Arming cap and safety blocks are not Installed, or if the fuse is damaged

**HAZARDOUS**

The fuse has a primer an a Detonator

**UNARMED**

The fuse is unarmed if the safety pin is Installed and the fuse is not damaged

**USING PROJECTILES**

AO-2.5, AO-10, AO-20M3, AO-100, AOKH-8, AOKH-10, AOKH-15, KHAB-25, KHAB-25, KHAB-200, KHAB-500, KRAB-25

**USING WEAPONS:  
AIRCRAFT**

## RSP-AGM-1

RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

### **SPECIAL WARNING**

This procedure is untested and is based on the best technical data available.

### **WARNINGS**

Do not remove a fuse from a bomb, which may contain picric acid, black powder or toxic chemical.

Sensitive explosives or chemicals may be present in the fuse well

- a) Secure safety pin
- b) Remove fuse from ordnance by turning counter clockwise.
- c) Proceed to disposal procedure.

RENDER SAFE PROCEDURE FOR ARMED CONDITION.

### **SPECIAL WARNING**

This procedure is untested and is based on the best technical data available.

### **WARNINGS**

Do not move or depress the striker or the impact disk. The fuse has an in-line firing train

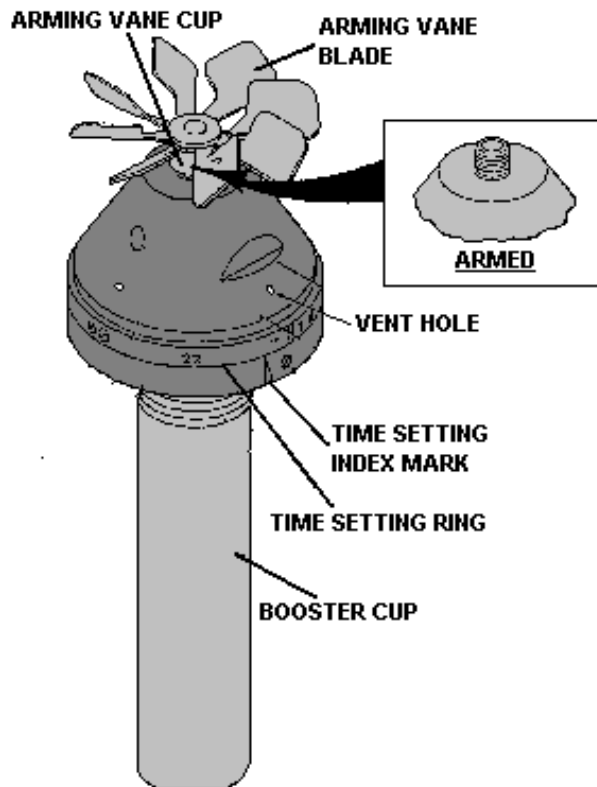
Do not remove a fuse from a bomb, which may contain picric acid, black powder, or toxic chemicals. Sensitive explosives or chemicals may be present in the fuse well

- a) Gag striker
- b) Remove fuse from ordnance by turning counterclockwise
- c) Proceed to disposal procedure

### **DISPOSAL PROCEDURE**

- a) Transport hazardous components to disposal area
- b) Dispose of by detonation

### 4.3 AGP



A

#### WARNINGS

1) Wait 30 minutes to approach a suspected dud-fired fuse. Deterioration or dampness may cause a delay function which prolongs the burning time of the powder train.

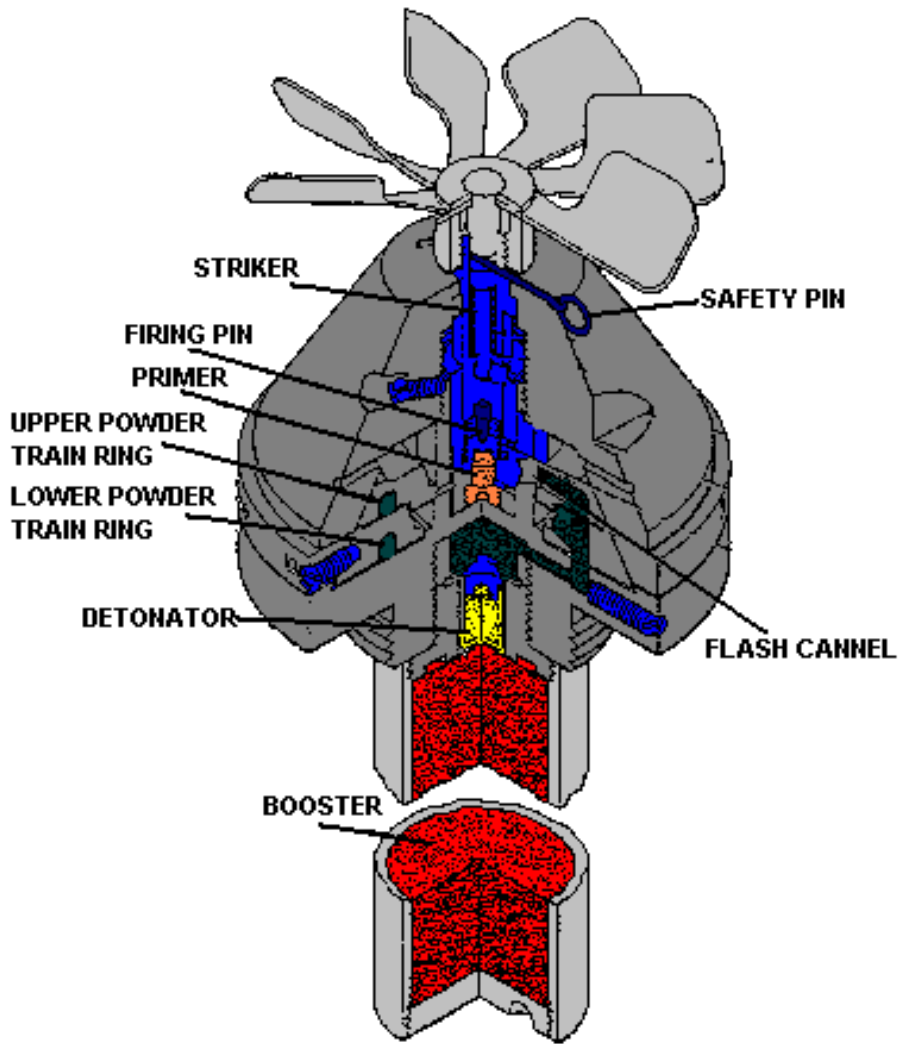
2) Handle and transport an armed fuse very carefully. The firing pin and movable primer carrier are held apart by a creep spring. Gagging the striker does not immobilise the primer carrier.

3) Wait 30 minutes to approach a fuse after impact wrench removal. The powder train may have been initiated during fuse removal and, deterioration or dampness, which prolongs the burning time of the powder train, may cause a delay function.

**MODEL:** AGP  
**MATERIAL:** Steel  
**WEIGHT:** ???  
**MARKINGS:** ???  
**LENGTH:** 203.2mm

#### FUNCTIONAL DATA

**ARMING METHOD:** Dropping Away of vane  
**SAFETY-DEVICE:** Assembly  
**SELF-DESTRUCT:** None  
**SAFETY-DEVICE:** Arming vane pin



**ARMED**

The fuse is unarmed if the arming vane is present

**HAZARDOUS**

The fuse contains a primer, a pyrotechnic in the power train rings and the body, a detonator, and a booster.

**UNARMED**

Consider the fuse armed if the arming vane is missing

**USING PROJECTILES**

FAB-50, FAB-100, FAB-250, FAB-500, FAB-1000,

**USING WEAPONS:  
AIRCRAFT**

## RSP-AGP

### RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

#### **SPECIAL WARNING**

This procedure is untested and is based on the best technical data available.

- a) Secure arming vanes to fuse head/body to prevent rotation.
- b) Manually remove fuse-using wrench, pipe, adjustable, or other Suitable tool placed on body.
- c) Proceed to disposal procedure.

### RENDER SAFE PROCEDURES FOR ARMED CONDITION.

#### **SPECIAL WARNING**

These procedures are untested and are based on the best technical data available.

#### **WARNING**

Wait 30 minutes to approach a suspected dud-fired fuse. A delay function may be caused by deterioration or dampness, which prolongs the burning time of the powder train.

Handle and transport an armed fuse very carefully. The firing pin and movable primer carrier are held apart by a creep spring. Gagging the striker does not immobilise the primer carrier.

#### **NOTE**

Powder burn stains around the vent holes in the head are an indication that the powder train has partially burned out, resulting in an interrupted explosive train. Perform the procedures for the unarmed condition if the powder train has burned.

#### **WARNING**

Wait 30 minutes to approach a fuse after impact wrench removal. The powder Train may have been initiated during fuse removal, and, deterioration or dampness, which prolongs the burning time of the powder train, may cause a delay function.

- a) Assemble impact wrench (manual actuation)
- b) Attach impact wrench to fuse body, and operate wrench from a safety Area;
- c) Proceed to disposal procedure. (Intention next page)

Alternate Procedure.

- a) Manually remove fuse using an adjustable pipe wrench, or other Suitable tool placed on body.
- b) Proceed to disposal procedure.

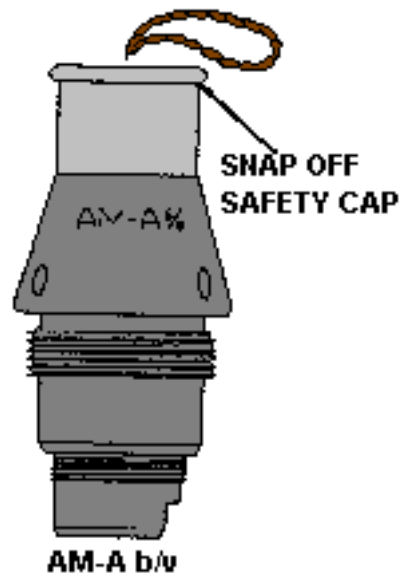
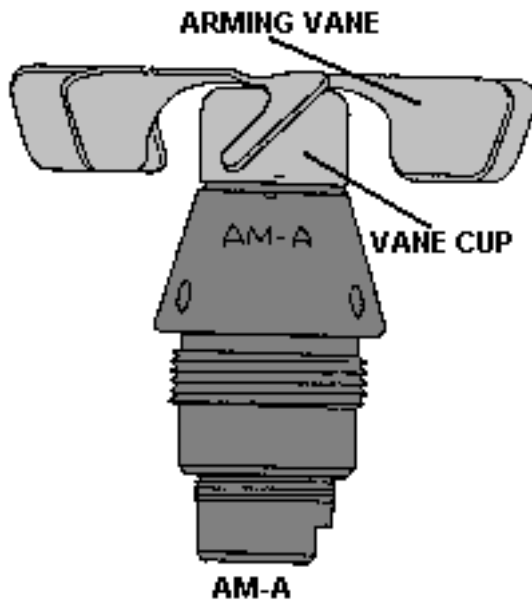
**DISPOSAL PROCEDURE**

**WARNING**

Handle and transport an armed fuse carefully. The firing pin and Movable primer carrier is held apart by a creep spring. Gagging The striker does not immobilise the primer carrier

- a) transport hazardous components to a disposal area
- b) Dispose of by detonation.

#### 4.4 AM-A



#### WARNINGS

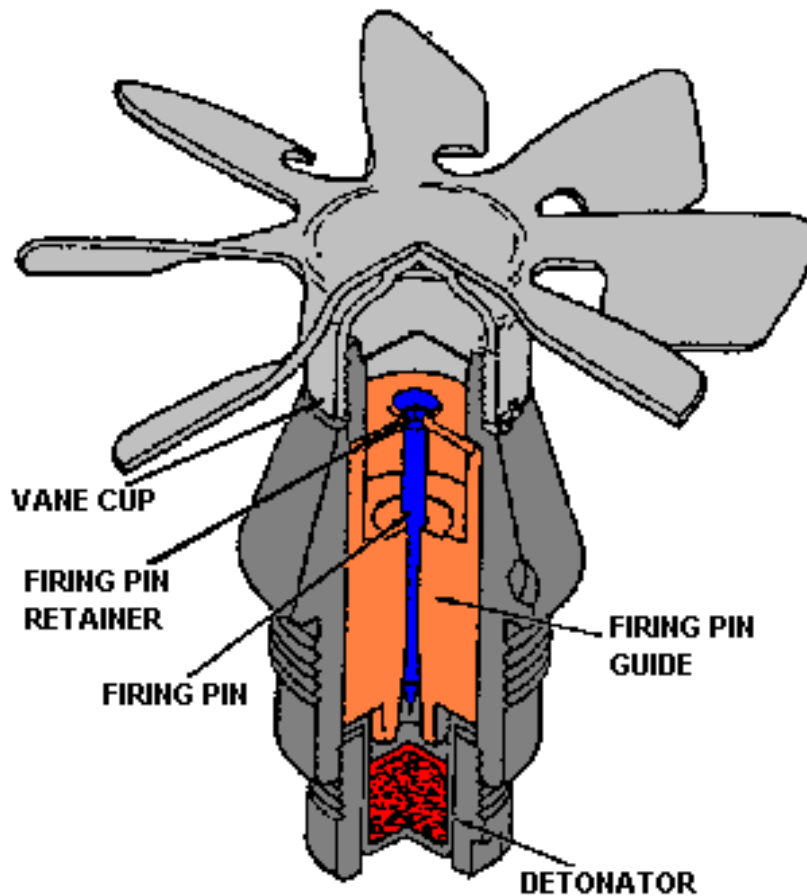
#### FUSE DATA

**TYPE:** Impact  
**MODEL:** AM-A  
**MATERIAL:** Steel  
**WEIGHT** 140.6g  
**MARKINGS:** AM-A  
**LENGTH:** 63.2

#### FUNCTIONAL DATA

**ARMING-** Dropping Away of Vane  
**METHOD:** Assembly  
**SELF-DESTRUCT:** None  
**SAFETY-**  
**DEVICE:** Arming wire





**ARMED**

Consider the fuze armed if the arming vane and cup, or the safety cap is missing or if the fuze is damaged.

**HAZARDOUS**

The AM-A have a detonator containing 6.2 grams of mercury fulminate and a primer containing less than 1 grams initiating explosive.

**UNARMED**

The fuze is unarmed if the arming vane and cup, or the safety cap is place and is not damaged.

**USING PROJECTILES**

82mm Rocket RS-82, 132mm Rocket RS-132, 132mm Rocket ROFS-132, **BOMB/AO-2.5, AO-8M6, AO-10, AO-15, AO-20M1, AO-20M2, AO-25, AO-25M1, AO-25M2, AOKH-10, KHAB-25, KHAB-200, KHAB-500,**

**USING WEAPONS:**

82mm 48-RD Rocket Launcher  
82mm M-8 Rocket Launcher  
82mm Aircraft Launcher RO-82  
132mm Rocket Launcher M-18  
132mm Aircraft Launcher RO-132

**RSP-AM-A**

**RENDER SAFE PROCEDURE FOR UNARMED CONDITION.**

- a) Secure arming vane and cup, or safety cap in place.
- b) Remove fuse by hand or wrench, turning it counterclockwise.
- c) Proceed to disposal procedure.

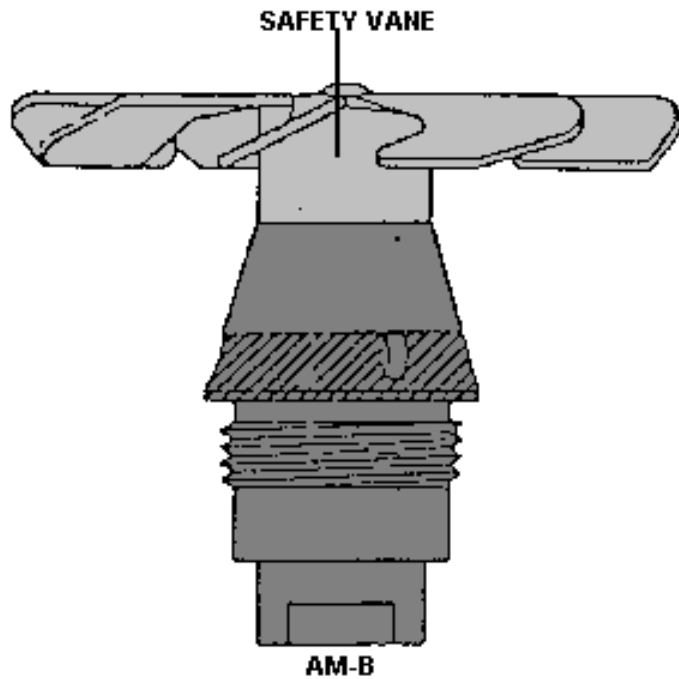
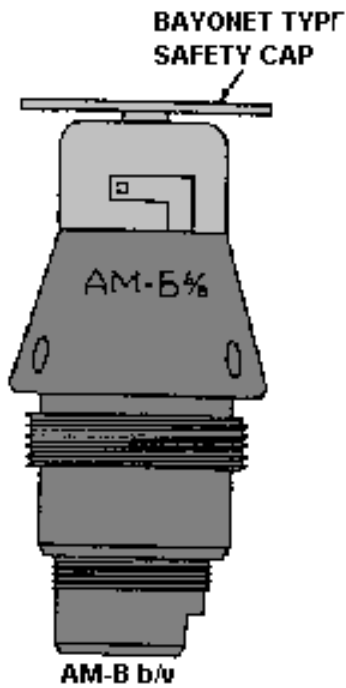
**RENDER SAFE PROCEDURE FOR ARMED CONDITION.**

- a) Remove fuse by hand or wrench, turning it counterclockwise.
- b) Proceed to disposal procedure.

**DISPOSAL PROCEDURE**

- a) Transport hazardous components to disposal area
- b) Dispose of by detonation

#### 4.5 AM-B

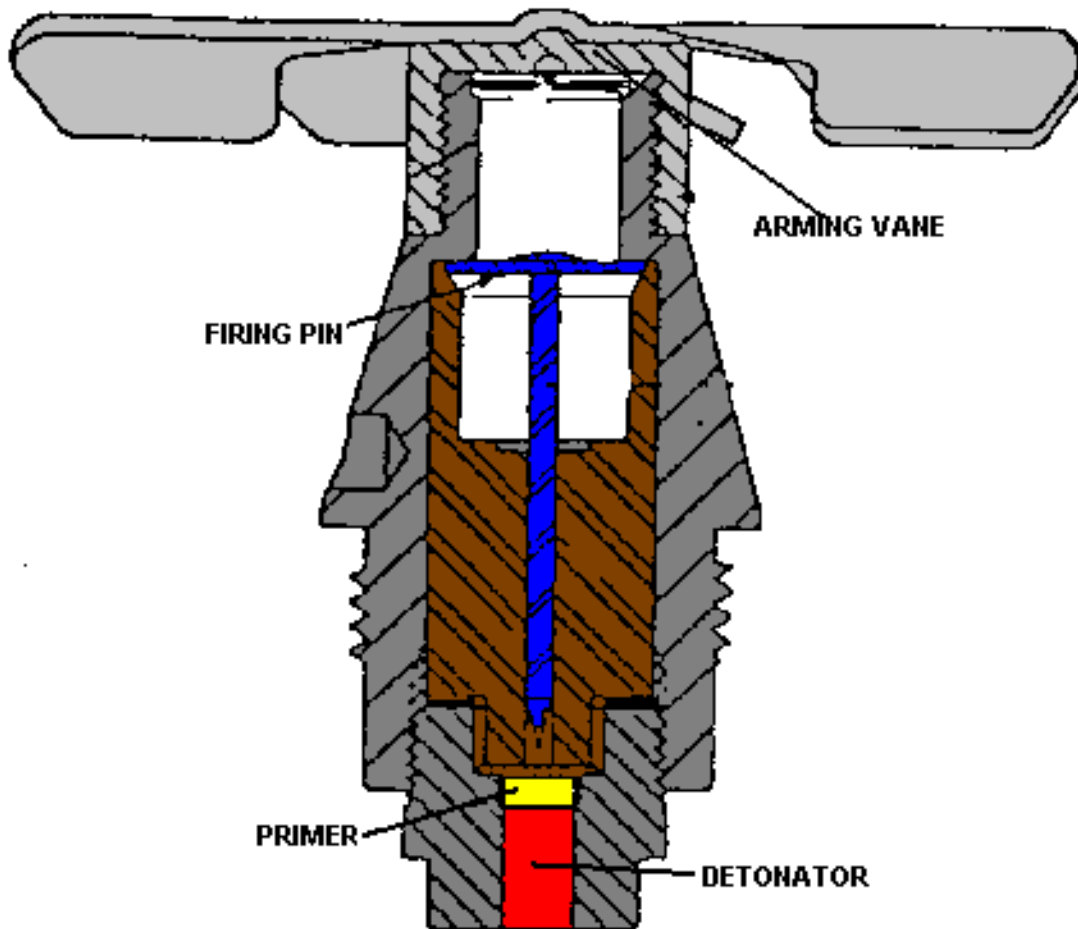


#### WARNINGS

**TYPE:** Impact  
**MODEL:** AM-B  
**MATERIAL:** Steel  
**WEIGHT:** 226.7g  
**MARKINGS:** AM-B  
**LENGTH:** 63.2

#### FUNCTIONAL DATA

**ARMING-** Dropping Away of Vane  
**METHOD:** Assembly  
**SELF-**  
**DESTRUCT:** None  
**SAFETY-**  
**DEVICE:** Arming wire



**ARMED**

Consider the fuse armed if the arming vane and cup, or the safety cap is missing or if the fuse is damaged.

**HAZARDOUS**

The AM-B has a detonator containing 6.2 grams of mercury fulminate and a primer containing less than 1 grams

**UNARMED**

The fuse is unarmed if the arming vane and cup, or the safety cap is in place and is not damaged.

**USING PROJECTILES**

82mm Rocket RS-82, 132mm Rocket RS-132, 132mm Rocket ROFS-132, **BOMB/AO-2.5, AO-8M6, AO-10, AO-15, AO-20M1, AO-20M2, AO-25, AO-25M1, AO-25M2, AOKH-10, KHAB-25, KHAB-200, KHAB-500,**

**USING WEAPONS:**

82mm 48-RD Rocket Launcher  
 82mm M-8 Rocket Launcher  
 82mm Aircraft Launcher RO-82  
 132mm Rocket Launcher M-18  
 132mm Aircraft Launcher RO-132

RSP-AM-B

RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

- a) Secure arming vane and cup, or safety cap in place.
- b) Remove fuse by hand or wrench, turning it counterclockwise.
- c) Proceed to disposal procedure.

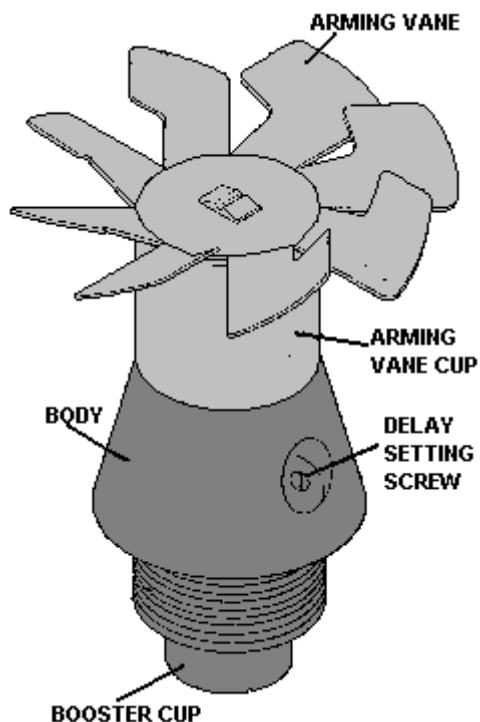
RENDER SAFE PROCEDURE FOR ARMED CONDITION.

- a) Remove fuse by hand or wrench, turning it counterclockwise.
- b) Proceed to disposal procedure.

**DISPOSAL PROCEDURE**

- c) Transport hazardous components to disposal area
- d) Dispose of by detonation

#### 4.6 AV-4



#### WARNINGS

Wait at least 30 minutes from time of release before approaching an armed fuse.

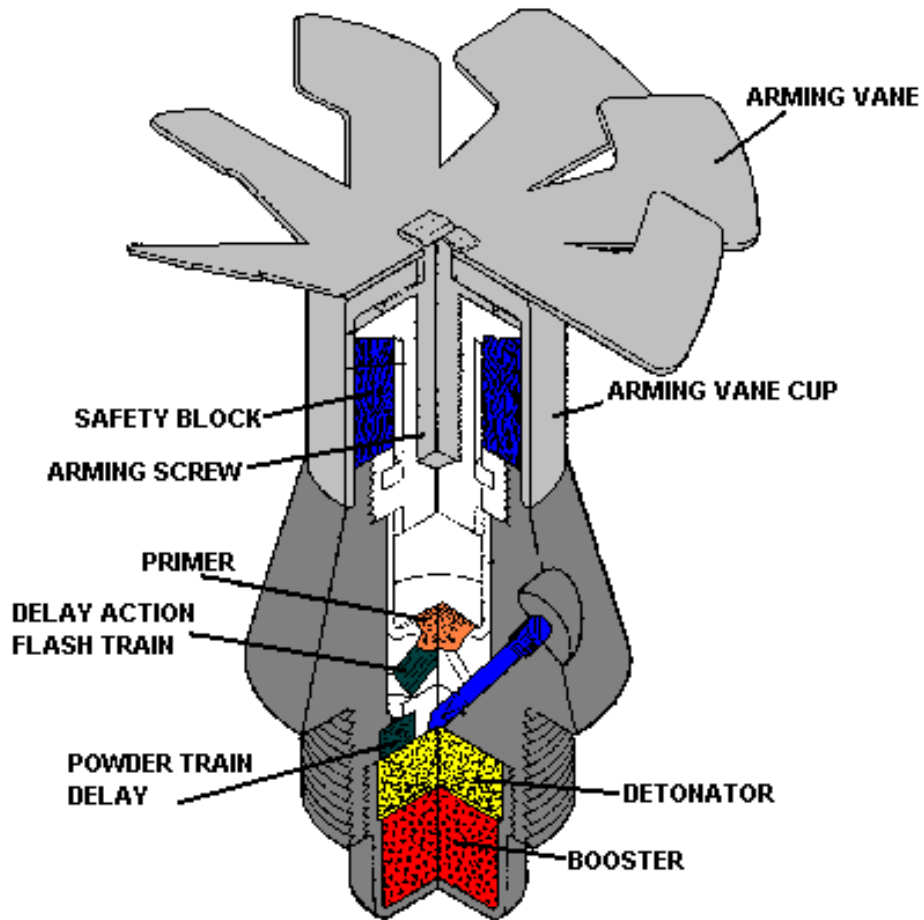
This will provide ample time for functioning should deterioration or dampness prolong burning time of the powder train delay.

#### FUSE DATA

**TYPE:** Impact  
**MODEL:** AV-4  
**MATERIAL:** Steel  
**WEIGHT:** ???  
**MARKINGS:** AB-4  
**LENGTH:** 94.4mm

#### FUNCTIONAL DATA

**ARMING-** Dropping away of  
**METHOD:** Assembly  
**SELF-DESTRUCT:** None  
**SAFETY-**  
**DEVICE:** Arming Wire



**ARMED**

Consider the fuse armed if the two safety blocks are not retained under the plunger head by the arming vane cup.

The explosive train consists of a primer powder train delay, detonator, and booster.

The compositions and weights of these components

**UNARMED**

The fuse is unarmed if the two safety blocks are retained under the plunger head by the arming vane cup.

**USING PROJECTILES**

AO-2.5, AO-10, AO-20M3, AO-25M1  
 AO-100, AOKH-10, AOKH-15,  
 KHAB-25, KHAB-200, KHAB-500,  
 KRAB-25,

**USING WEAPONS:  
 AIRCRAFT**

## RSP-AV-4

RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

### **SPECIAL WARNING**

This procedure is untested and is based on the best technical data Available.

- a). Tape arming vane and safety wire to fuse body.
- b). Manually removes fuse by hand or with a suitable tool, turning in a counterclockwise direction.
- c). Proceed to disposal procedure.

RENDER SAFE PROCEDURE FOR ARMED CONDITION.

### **SPECIAL WARNING**

This procedure is untested and is based on the best technical data available.

### **WARNINGS**

Wait 30 minutes before approaching a suspected dud-fired fuse. A random delay function may be caused by deterioration or dampness, which prolongs the burning time of the delay charge.

Do not move or jar a bomb containing an armed fuse. The fuse contains an in-line primer separated from the firing pin by a creep spring.

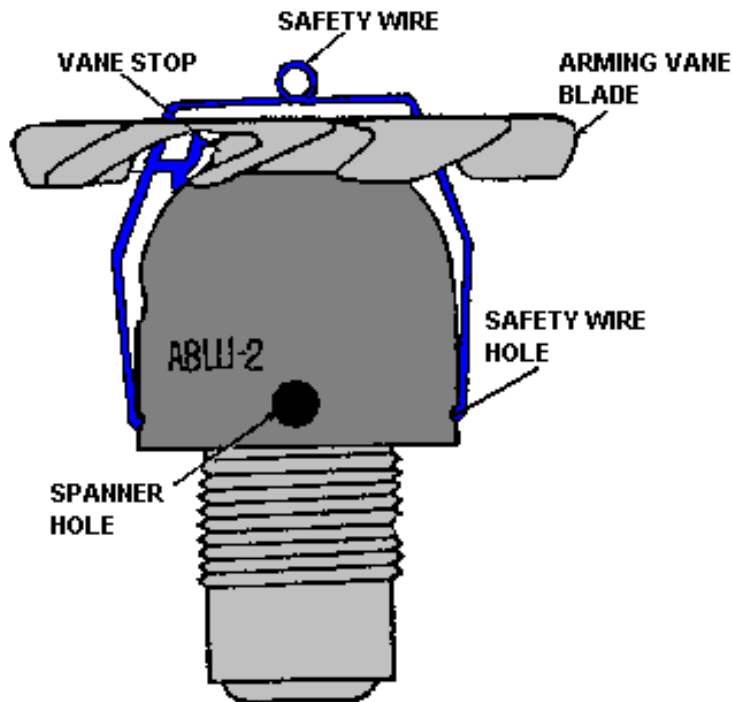
- a). Assemble a rocket wrench for operation
- b). Carefully attaches rocket wrench to fuse body.

### **DISPOSAL PROCEDURE**

- a). Transport hazardous components to disposal area
- b). Dispose of by detonation



#### 4.7 AVSH-2



#### WARNINGS

1) Wait 30 minutes before approaching a suspected dud—fired fuse. A random delay function may be caused by deterioration or dampness which prolongs the burning time of the delay charge.

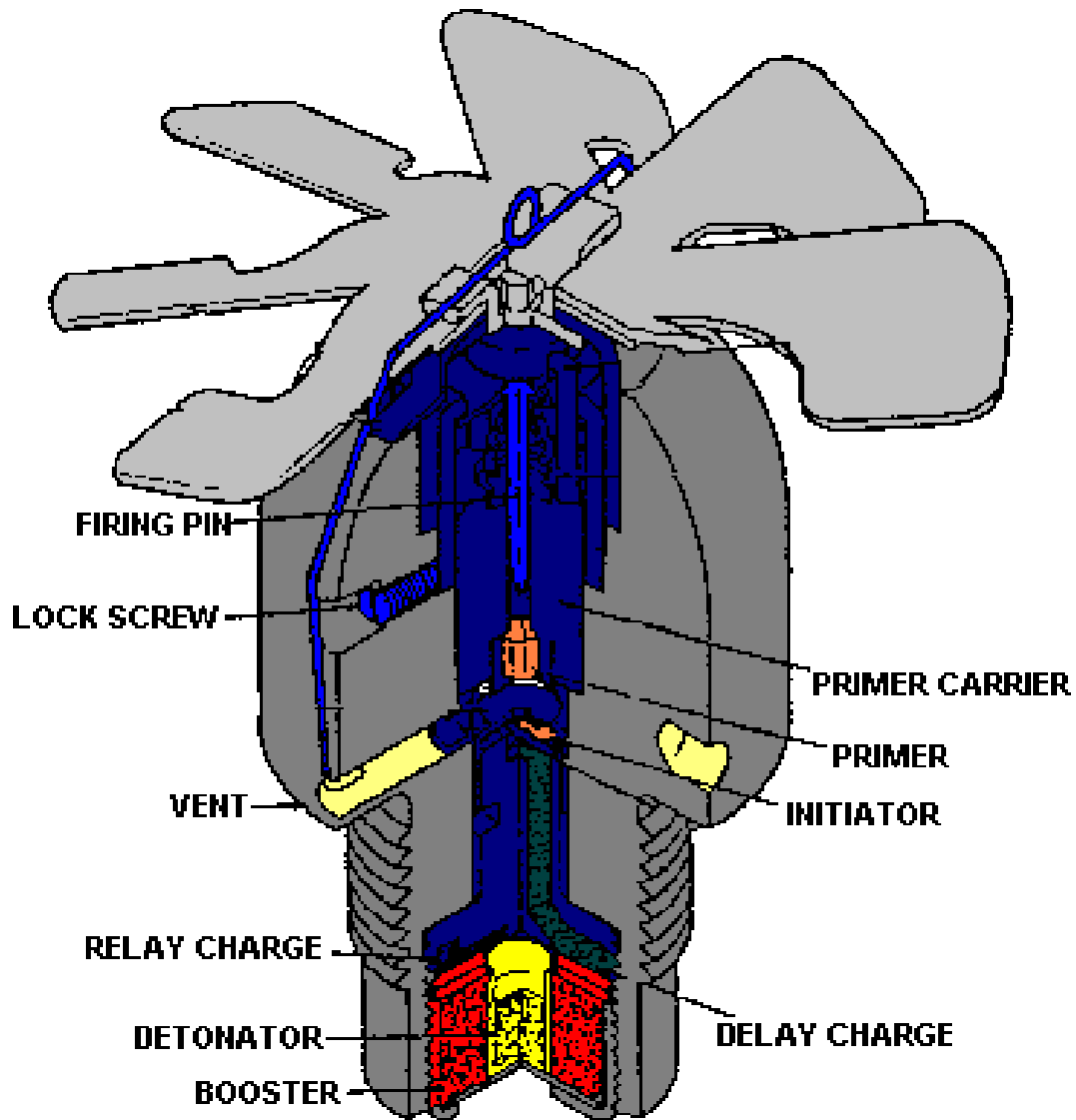
2) Do not move or jar a bomb containing an armed fuse. The fuse contains an in—line primer separated from the firing pin by a creep spring.

3) Wait 30 minutes to approach a fuse after rocket wrench removal. The delay may have been initiated during fuse removal. A random delay function may be caused by deterioration or dampness, which prolongs the burning time of the delay charge.

**MATERIAL:** Steel  
**WEIGHT:** ???  
**MARKINGS:** AB III-2  
**LENGTH:** 71.6mm

#### FUNCTIONAL DATA

**ARMING-** Dropping away of vane  
**METHOD:** Assembly  
**SELF-**  
**DESTRUCT:** None  
**SAFETY-**  
**DEVICE:** Arming wire



**ARMED**

Consider the fuse armed if the arming vane and vane cup are missing or if the fuse is damaged.

**HAZARDOUS**

The explosive train consists of a primer, an initiator, pickup, delay and relay charges, and a detonator, each weighing less than 1 gram, and a 1 gram tetryl booster

**UNARMED**

The fuse is unarmed if the arming vane and vane cup are in place and the fuse is undamaged.

**USING PROJECTILES**  
 ?????????????????????????????????

**USING WEAPONS:**  
 ?????????????????????????????????

## RSP-AVSH-2

RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

### **SPECIAL WARNING**

This procedure is untested and is based on the best technical data available.

- a). Tape arming vane and safety wire to fuse body.
- b). Manually removes fuse by hand or with a suitable tool, turning in a counterclockwise direction.
- c). Proceed to disposal procedure.

RENDER SAFE PROCEDURE FOR ARMED CONDITION.

### **SPECIALWARNING**

This procedure is untested and is based on the best technical data available.

### **WARNINGS**

Wait 30 minutes before approaching a suspected dud-fired fuse. A random delay function may be caused by deterioration or dampness, which prolongs the burning time of the delay charge.

Do not move or jar a bomb containing an armed fuse. The fuse contains an in-line primer separated from the firing pin by a creep spring.

- a). Assemble a rocket wrench for operation as prescribed in 60-series Manual.
- b). Carefully attaches rocket wrench to fuse body.
- c). Initiate rocket wrench.

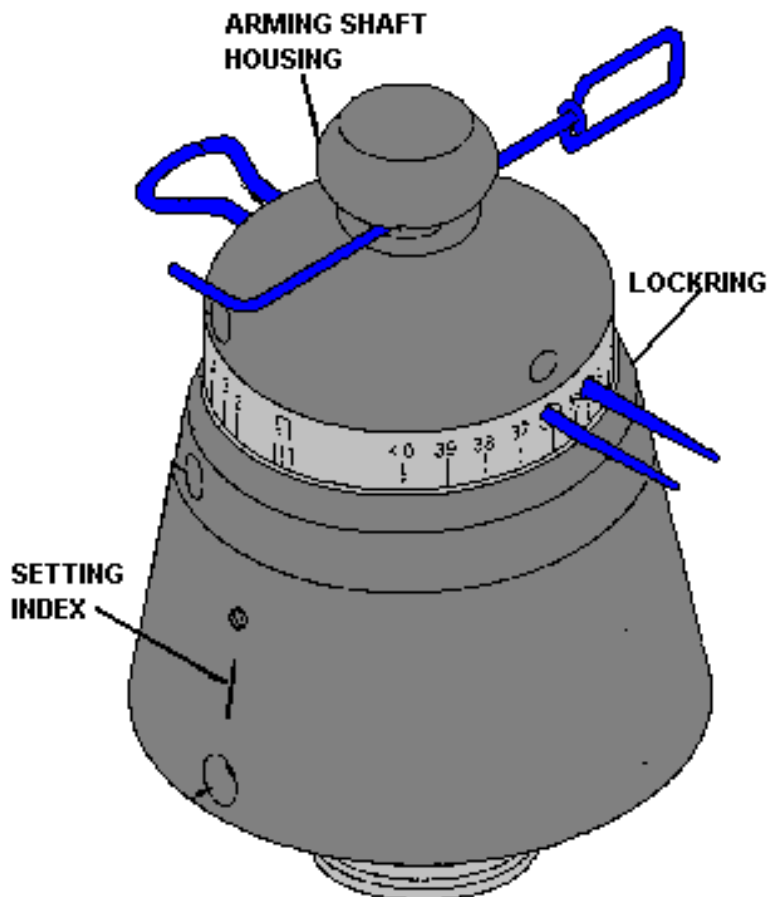
### **WARNING**

Wait 30minutes to approach a fuse after a rocket wrench removal. The Delay may have initiated during fuse removal. A random delay may be Caused by deterioration or dampness which prolongs the burning time at The delay charge

### **DISPOSAL PROCEDURE**

- a). Transport hazardous components to disposal area
- b). Dispose of by detonation

#### 4.8 TM-4A and 4B



#### WARNINGS

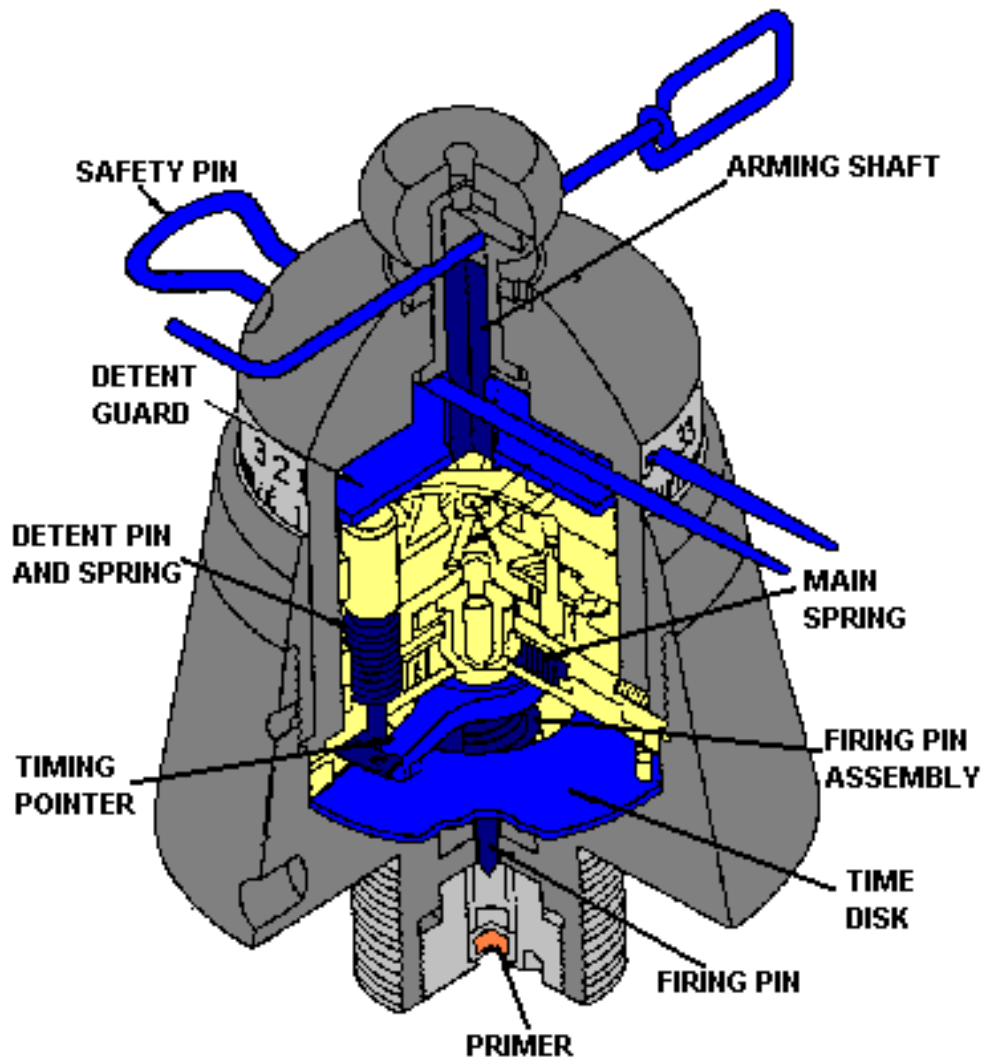
Do not jar or drop an armed fuse.  
The spring-loaded firing pin maybe  
Partially released and could function  
Upon jarring.

#### FUSE DATA

**TYPE:** Mechanical Time  
**MODEL:** TM-4A and TM-4B  
**MATERIAL:** Steel  
**WEIGHT:** ???  
**MARKINGS:** TM-4A/TM-4B  
**LENGTH:** 97.5mm

#### FUNCTIONAL DATA

**ARMING-**  
**METHOD:** Remove Arming Wire  
**SELF-**  
**DESTRUCT:** Time Setting  
**SAFETY-**  
**DEVICE:** Safety Pin



**ARMED**

Consider the fuse armed if the safety pin and arming pin are not in place.

**HAZARDOUS**

The compositions and weights of the TM-4A detonator and the TM-4B primer are unknown.

**UNARMED**

The fuse is unarmed if the safety pin or arming pin is in place.

**USING PROJECTILES**

AO-2.5, AO-10, AO20M3,  
AD-1, AOKH-10, AOKH-15,  
FOTAB, SAB, SAB-3M, SAB-25,  
KHAB-200, KHAB-500, KRAB-25,  
ZAB-50TSHCH, ZAB-100T.

**USING WEAPONS:  
AIRCRAFT**

RSP-TM-4A and TM-4B

RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

**SPECIAL WARNING**

This procedure is untested and is based on the best technical data available.

**WARNING**

Do not jar or drop an armed fuse. The spring-loaded firing pin may be partially released and could function upon jarring.

RENDER SAFE PROCEDURE FOR ARMED CONDITION.

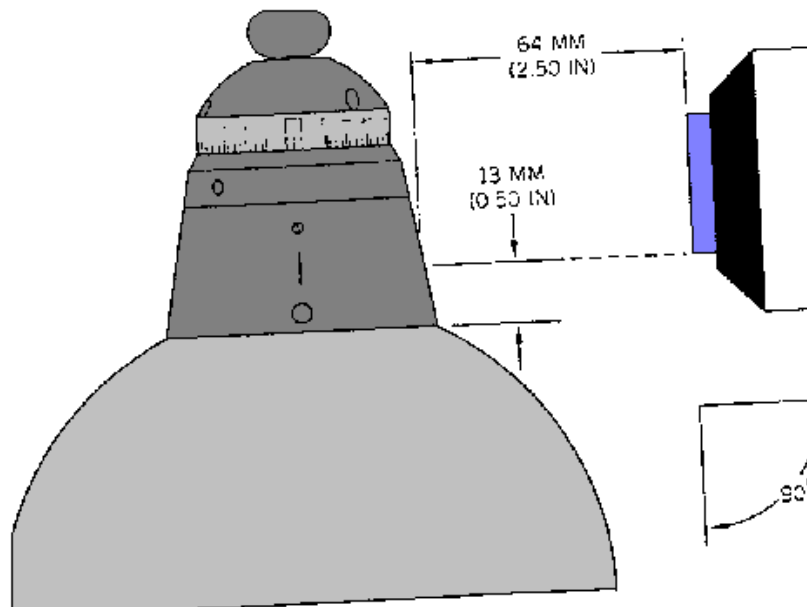
**SPECIAL WARNING**

This procedure is untested and is based on the best technical data Available.

**WARNINGS**

Do not jar or drop an armed fuse. The spring-loaded firing pin may be partially released and could function upon jarring.

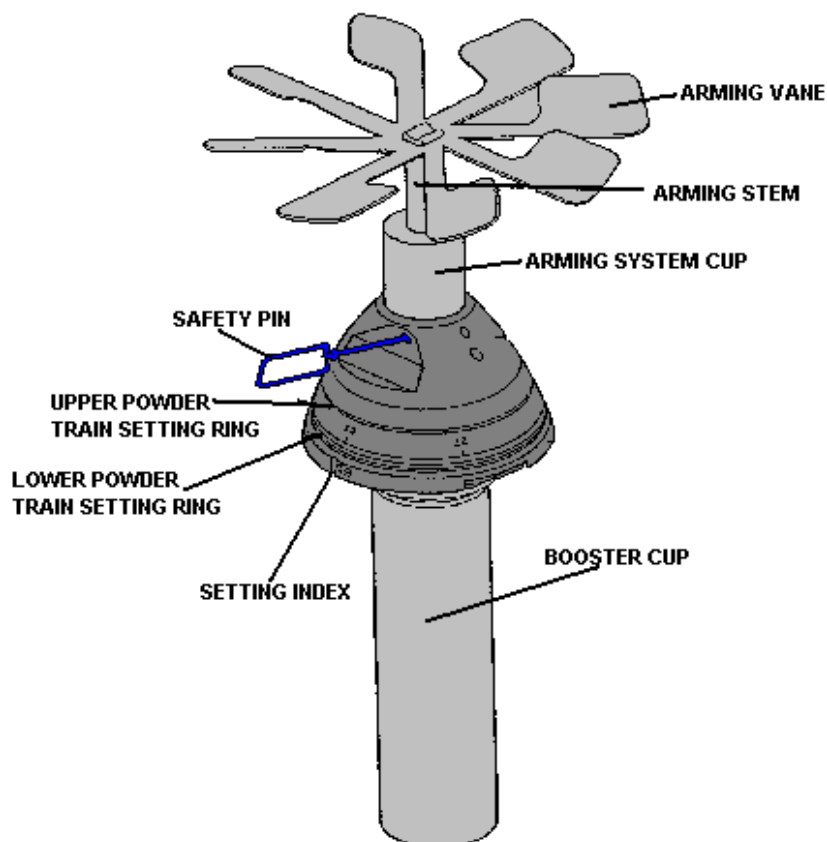
- a). Assemble a calibre **.50** dearmmer/JROD with a standard slug a position as shown in figure
- b). Fire dearmmer.
- c). Cover remainder of fuse with tape.
- d). Proceed to disposal procedure.



**DISPOSAL PROCEDURE**

- a). Transport hazardous components to disposal area
- b). Dispose of by detonation

#### 4.9 ADP



#### WARNINGS

1) Wait 30 minutes to approach a suspected dud-fired fuse. Deterioration or dampness may cause a delay function which prolongs the burning time of the powder train.

2) Wait 30 minutes to approach a fuse after rocket wrench removal. The powder train may have been initiated during fuse removal. A delay function may be caused by deterioration or dampness, which prolongs the burning time of the powder train.

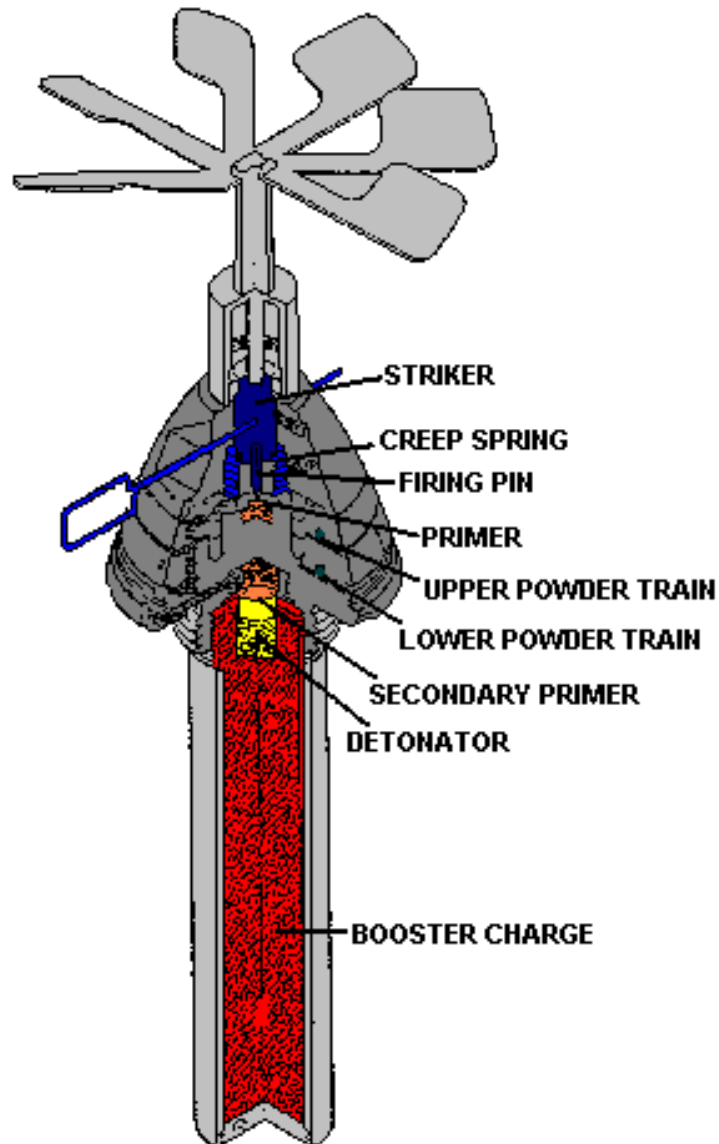
3) Do not depress or move the striker during insertion of the cotter pin into the safety pin hole. The firing pin is held away from the primer by a creep spring or may be embedded in the primer.

#### FUSE DATA

**TYPE:** Impact  
**MODEL:** ADP  
**MATERIAL:** Aluminium  
**WEIGHT:** ???  
**MARKINGS:** AA II  
**LENGTH:** 243.8mm

#### FUNCTIONAL DATA

**ARMING-** Dropping away of vane  
**METHOD:** Assembly  
**SELF-DESTRUCT:** None  
**SAFETY-DEVICE:** Arming Pin



**ARMED**

Consider the fuze armed if the fork/safety pin is not in place and/or the fuze is damaged.

**HAZARDOUS**

The explosive components are the primer, upper and lower powder train, relay, secondary primer, detonator, and booster charge.

**UNARMED**

The fuze is unarmed if the arming fork/safety pin is in place and the fuze is undamaged.

**USING PROJECTILES**

FAB-50, FAB-100, FAB-250  
 FAB-500, FAB-1000, BRAB-200DS,  
 BRAB-500, BRAB-1000, BETAB-  
 150DS.

**USING WEAPONS:  
AIRCRAFT**



## RSP-ADP

### RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

#### **SPECIAL WARNING**

This procedure is untested and is based on the best Technical data available.

- a). Secure arming fork/safety pin in place with tape.
- b). Remove fuse by hand, turning it counterclockwise.
- c). Proceed to disposal procedure.

### RENDER SAFE PROCEDURES FOR ARMED CONDITION.

#### **SPECIAL WARNING**

These procedures are untested and are based on the best technical data available.

#### **WARNING**

Wait 30 minutes to approach a suspected dud-fired fuse. A delay function may be caused by deterioration or dampness, which prolongs the burning time of the powder train.

#### **NOTE**

Powder burn stains around the vent holes in the head are an indication that the powder train has partially burned out, resulting in an interrupted explosive train. Perform the procedures for the unarmed condition if the powder train has partially burned.

- a). Assemble a rocket wrench for operation
- b). Carefully position wrench on fuse body.
- c). Initiate rocket wrench.

#### **.WARNING** Alternate Procedure

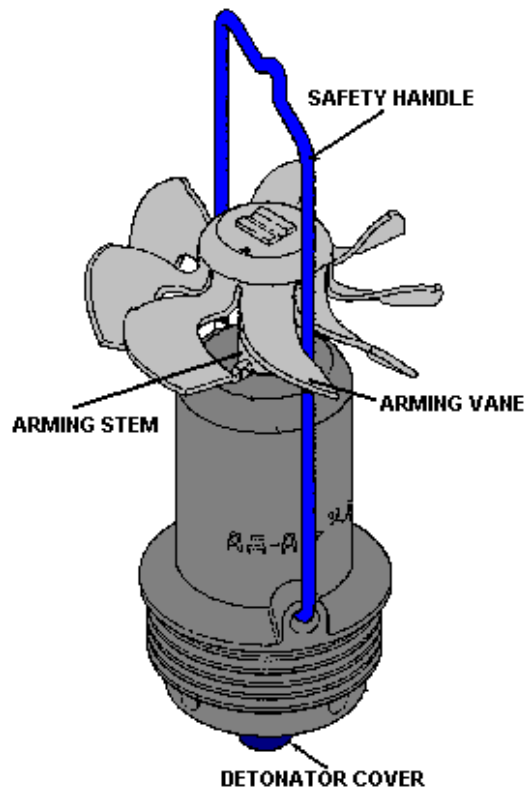
Do not depress or move the striker during insertion of cotter pin into the safety pin hole. The firing pin is held away from the primer by a creep spring or may be embedded in the primer.

- a). Insert a cotter pin, or suitable substitute, into safety pin hole, and secure in place
- b). Remove fuse by hand, turning counterclockwise.
- c). Proceed to disposal procedure.

#### **DISPOSAL PROCEDURE**

- a). Transport hazardous components to disposal area
- b). Dispose of by detonation

#### 4.10 AD-A



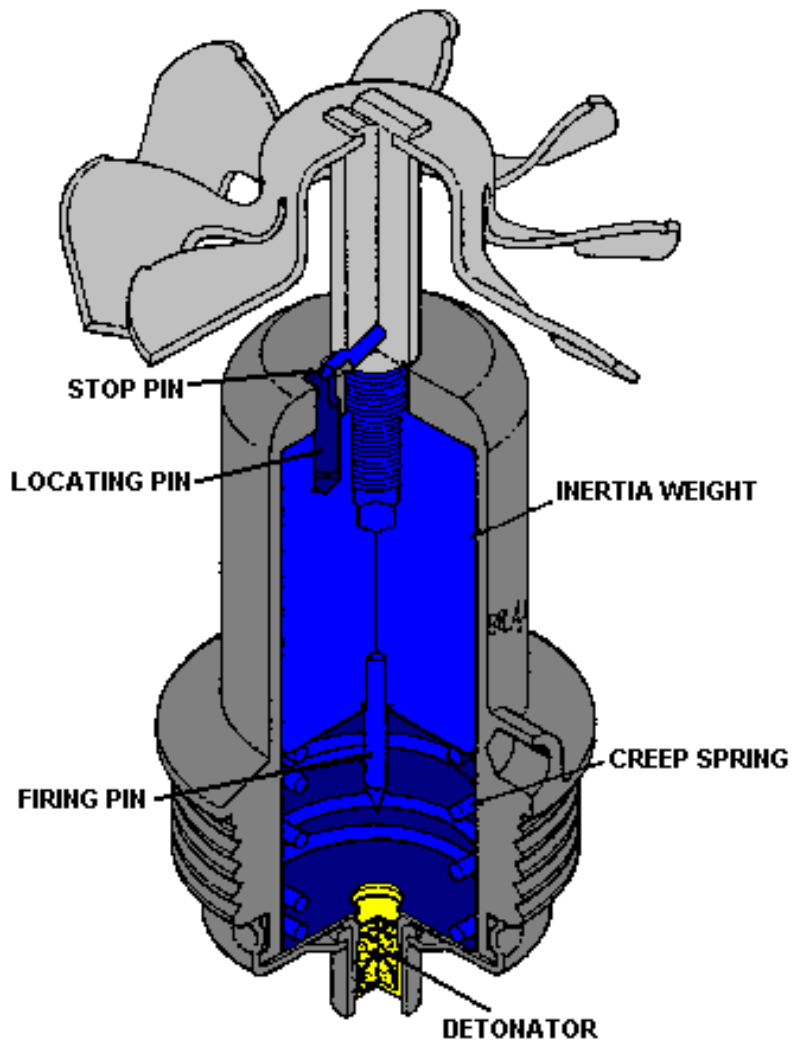
#### WARNINGS

#### FUSE DATA

**TYPE:** Impact  
**MODEL:** AD-A  
**MATERIAL:** Aluminium Alloy  
**WEIGHT:** ???  
**MARKINGS:** AD-A  
**LENGTH:** 96.5mm

#### FUNCTIONAL DATA

**ARMING-** Dropping Away of vane  
**METHOD:** Assembly  
**SELF-**  
**DESTRUCT:** None  
**SAFETY-**  
**DEVICE:** Arming Wire



**ARMED**

Consider the fuse armed if the arming vane and stem are missing and/or the fuse is damaged.

**HAZARDOUS**

The detonator contains less than 1 gram of explosives

**UNARMED**

The fuse is unarmed if the safety wire or arming vane is in place and the fuse is undamaged.

**USING PROJECTILES**

Any Appropriate Bomb

**USING WEAPONS:  
AIRCRAFT**

## RSP-AD-A

### RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

#### **SPECIAL WARNING**

This procedure is untested and is based on the best Technical data available.

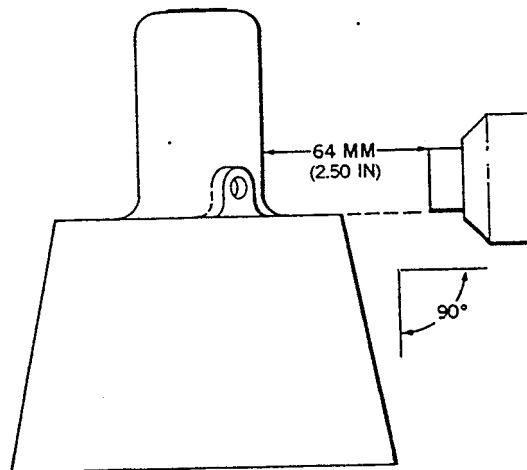
- a).Tape safety wire or arming vane in place.
- b).Remove fuse by hand or wrench, turning fuse in a counterclockwise.
- c).Proceed to disposal procedure.

### RENDER SAFE PROCEDURE FOR ARMED CONDITION.

#### **SPECIAL WARNING**

This procedure is untested and is based on the best technical data Available.

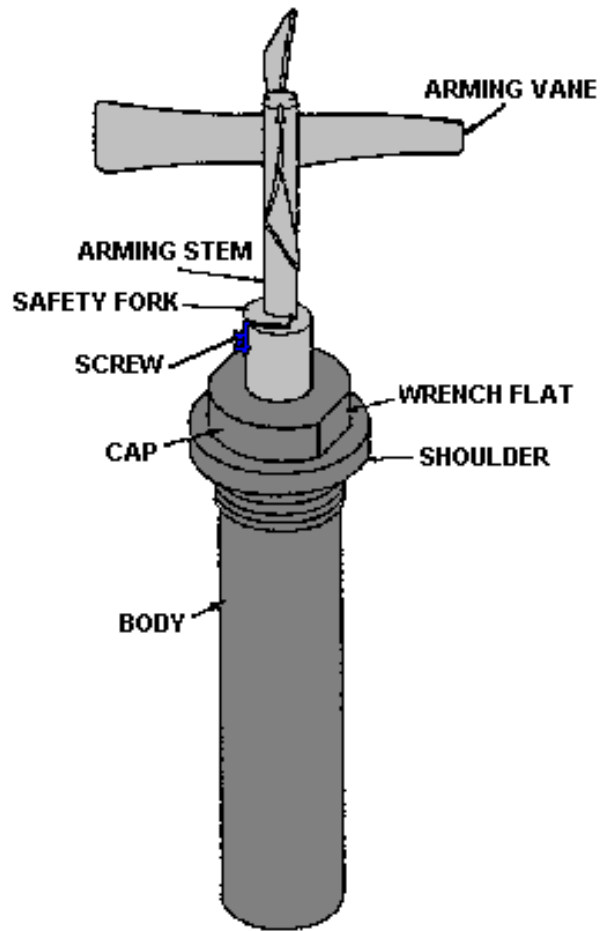
- a).Assemble a calibre .50 dearmmer with a standard slug and position as it shown in figure.
- b).Fire dearmmer
- c).Fill cavity with suitable material and/or tape remaining components in place.
- d).Proceed to disposal procedure



#### **DISPOSAL PROCEDURE**

- a).Transport hazardous components to disposal area
- b).Dispose of by detonation

#### 4.11 ADOZ/ADZ/ADZU



#### WARNINGS

1) Wait 30 minutes from time of impact before performing render safe procedures on an armed fuse. Two fuses in this series contain delay elements of unknown duration.

2) wait 30 minutes before approaching a remotely removed armed ADZ or ADZU fuse.

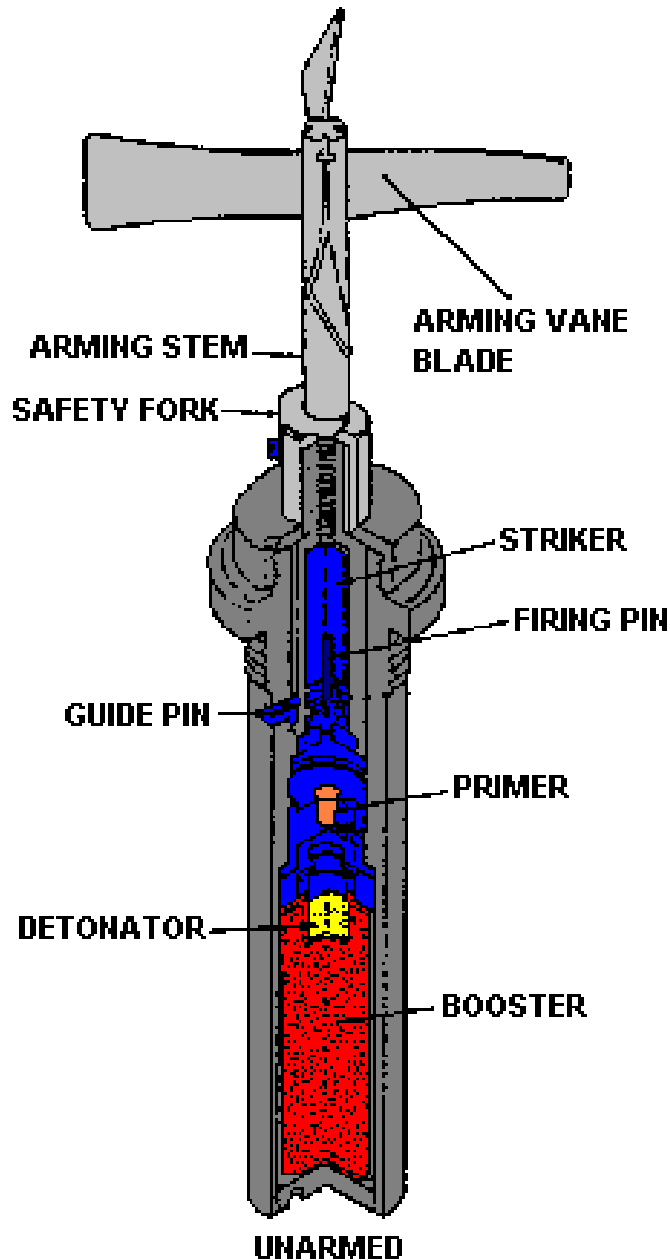
This should provide ample time to observe any indication of further functioning since deterioration or dampness may prolong burning of the pyrotechnic delay initiated removal.

#### FUSE DATA

**TYPE:** Impact  
**MODEL:** ADOZ,ADZ,ADZU  
**MATERIAL:** Steel  
**WEIGHT:** 798.3g  
**MARKINGS:** AGO3 (ADOZ)  
**LENGTH:** 251.4mm

#### FUNCTIONAL DATA

**ARMING-METHOD:** Dropping Away of vane Assembly  
**SELF-DESTRUCT:** None  
**SAFETY-DEVICE:** Locking Yoke



**ARMED**

Consider the fuse is armed if the arming stem is not installed or if the safety fork is not installed and threads on the arming stem are visible.

**HAZARDOUS**

These fuses contain a primer, relay, detonator, and booster. The ADZ and ADZU fuses each have a delay element.

**UNARMED**

The fuse is unarmed if the arming stem and safety forks are installed.

**USING PROJECTILES**

????????????????????????????????

**USING WEAPONS:**

????????????????????????????

RSP-ADOZ,ADZ and ADZU

RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

**SPECIAL WARNING**

This procedure is untested and is based on the best Technical data available.

- a). Secure arming fork/safety pin in place with tape.
- b). Manually removes fuse by hand or with a suitable tool, turning in a counterclockwise direction.
- c). Proceed to disposal procedure.

RENDER SAFE PROCEDURE FOR ARMED CONDITION.

**SPECIAL WARNING**

This procedure is untested and is based on the best technical data Available.

**WARNING**

Wait 30 minutes from time of impact before performing procedures on an armed fuse. Two fuses in this series contain delay elements of unknown duration.

- a). Assemble and attach remote wrench to fuse.
- b). Remotely remove fuse.
- c). Proceed to disposal procedure.

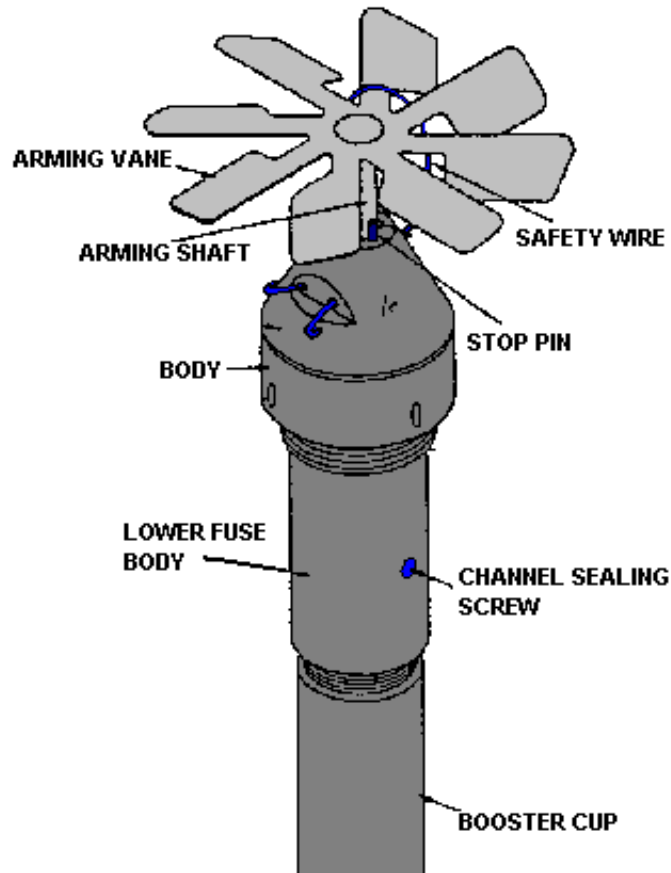
**WARNING**

Wait 30 minutes before approaching a remotely removed ADZ or ADZU fuse. This should provide ample time to observe any indication of further functioning since deterioration or dampness may prolong burning of the pyrotechnic delay if initiated during removal.

**DISPOSAL PROCEDURE**

- a). Place fuse in a container of sand or other suitable material.
- b). Transport hazardous components to disposal area
- c). Dispose of by detonation

#### 4.12 AV-1/AV-1d/u



#### WARNINGS

1) Do not approach an armed fuse for 30 minutes after impact or remote removal.

Deterioration or dampness may prolong burning of the pyrotechnic delay element.

2) Do not subject an armed fuse to unnecessary movement, and maintain the fuse in a nose-up attitude after removal.

These are all-way fuses, and in the armed condition the firing pin and primer are held apart only by the creep spring.

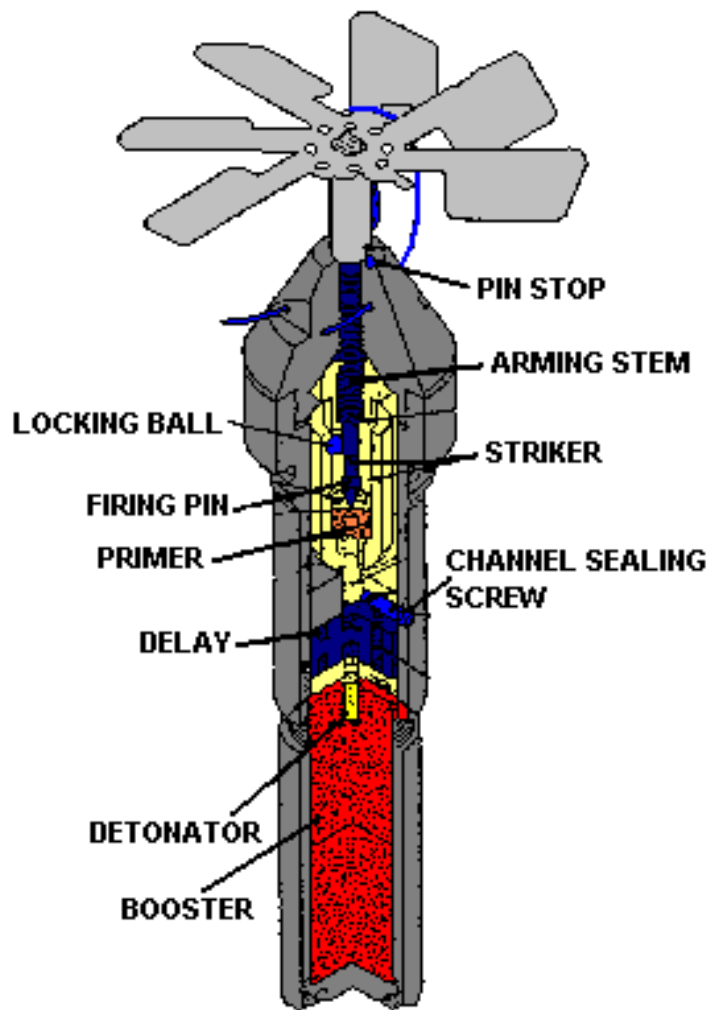
#### FUSE DATA

**TYPE:** Impact  
**MODEL:** AV-1,AV-1d/u  
**MATERIAL:** Steel  
**WEIGHT:** ???  
**MARKINGS:** AB-1  
**LENGTH:** 214.2mm

#### FUNCTIONAL DATA

**ARMING-** Dropping Away of Vane  
**METHOD:** Assembly  
**SELF-DESTRUCT:** None  
**SAFETY-DEVICE:** Arming Wire





**ARMED**

Consider the fuses armed if the safety wire and the safety fork are missing, and the D-pin is not in contact with the stop pin.

**UNARMED**

The fuses are unarmed if the safety wire or the safety fork is in place, and/or the D-pin is in contact with the stop pin.

**USING PROJECTILES**

FAB-50, FAB-100, FAB-250,  
FAB-500, FAB-1000

**HAZARDOUS**

Each fuse contain a primer, a detonator, and a delay element, each with less than 1 gram of explosive, a relay wafer whit 1 gram of potassium nitrate, sulfur and carbon, and a booster with 51grams of tetryl in addition, the AV-1d/u fuse contains a relay pellet with less than 1 gram of explosive.

**USING WEAPONS:  
AIRCRAFT**

## RSP-AV-1

### RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

- a). Secure arming vane to prevent movement.
- b).Manually remove fuse.

#### NOTE

If a wrench is required to loosen the fuse, attach the wrench to the fuse body.

- c).Proceed to disposal procedure.

### RENDER SAFE PROCEDURE FOR ARMED CONDITION.

#### WARNINGS

Do not approach an armed fuse for 30 minutes after impact or remote removal. Deterioration or dampness may prolong burning of the pyrotechnic delay element.

Do not subject an armed fuse to unnecessary movement, and maintain the fuse in a nose-up attitude after removal. These are all-way fuses, and in the armed condition the firing pin and primer are held apart only by the creep spring.

#### NOTE

Due to the 144-millimeter (5.67-inch) intrusion of the fuse into the bomb, adequate clearance is required for fuse removal.

- a). Remove fuse using tape and line technique for small diameter fuses.

Ensure that pipe wrench is attached to fuse body or using a wrench.

Ensure wrench is attached to fuse body.

- b). Maintain fuse in a nose-up attitude.

- c). Proceed to disposal procedure.

#### DISPOSAL PROCEDURE

##### Unarmed Condition

- a).Transport hazardous components to disposal area

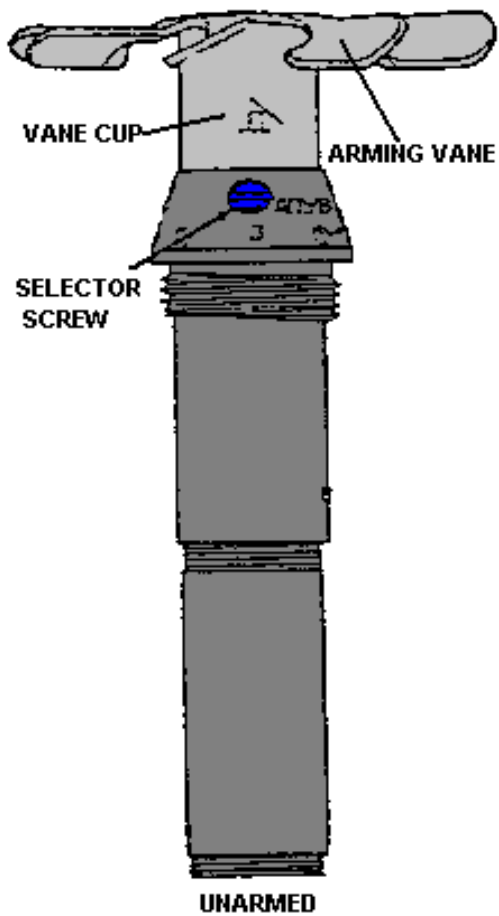
- b).Dispose of by detonation

##### Armed Condition

- a). Hand carries fuse to a disposal area.

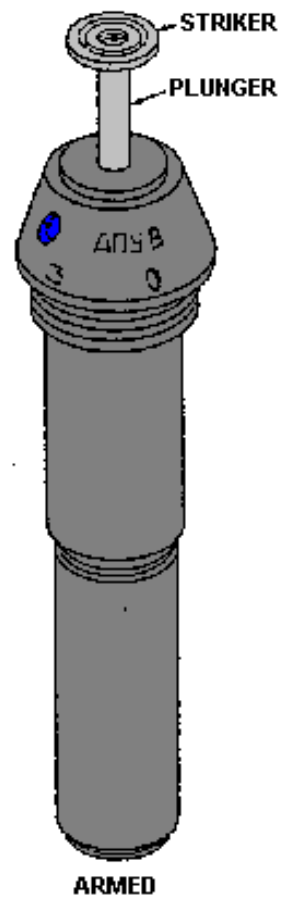
- b).Dispose of by detonation.

#### 4.13 APUV



#### WARNINGS

1) Do not depress or permit of the striker.  
The fuse has no out-of-line safety feature.

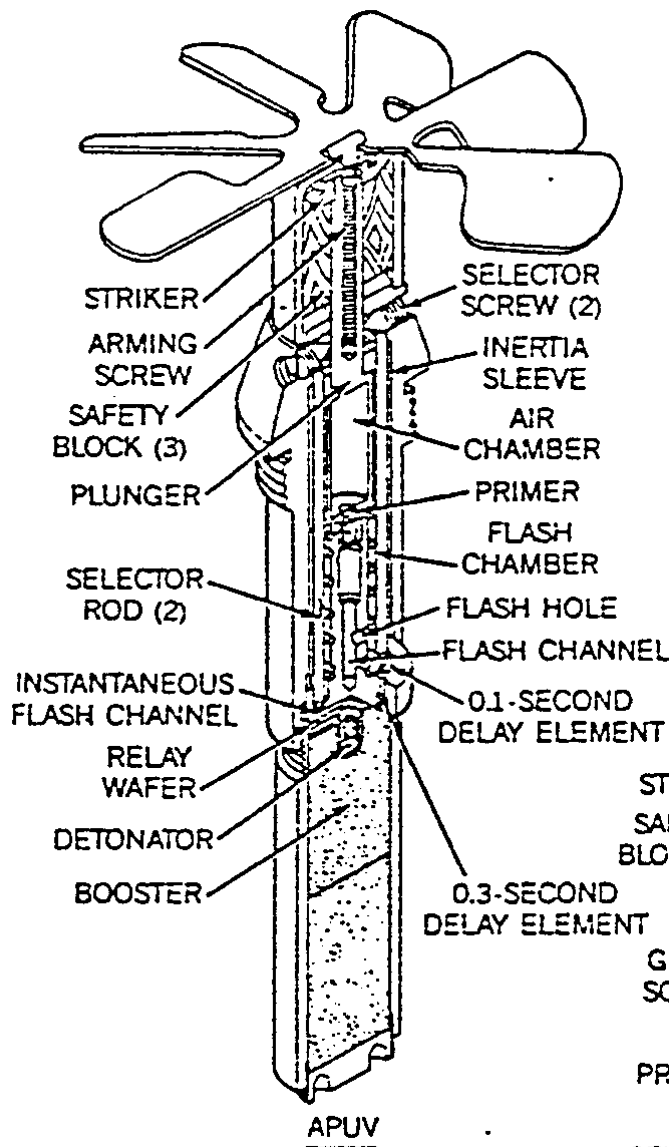


#### FUSE DATA

**TYPE:** Impact  
**MODEL:** APUV  
**MATERIAL:** Steel  
**WEIGHT:** ???  
**MARKINGS:** AIIYB  
**LENGTH:** 199.3mm

#### FUNCTIONAL DATA

**ARMING-** Dropping Away of Vane  
**METHOD:** Assembly  
**SELF-DESTRUCT:** None  
**SAFETY-DEVICE:** Safety Wire



**ARMED**

Consider the fuse armed if the vane cup is missing, if the vane cup is not seated against the fuse body, or the fuse is damaged.

**UNARMED**

The fuse is unarmed if the vane cup is seated against the fuse body and the fuse is undamaged.

**HAZARDOUS**

The explosive train of these fuse consists of a primer (lead styphnate and potassium perchlorate), delay elements (black powder), a relay wafer and a detonator (lead styphnate, lead aside, and tetryl) each of which weight less than 1 gram.

The booster contains 51 gram of tetryl. Some fuses have a relay pellet beneath the primer.

**USING PROJECTILES**  
**BOMB/ BRAB and FAB**

**USING WEAPONS:**  
**AIRCRAFT**

## RSP-APUV

### RENDER SAFE PROCEDURE FOR UARMED CONDITION.

- a). Secure vane cup to fuse body with tape or other suitable material to prevent vane cup rotation.
- b). Manually remove fuse from bomb. If required. Loosen fuse with wrench, pipe adjustable 18 inch, or other suitable tool, placed on body.
- c). Proceed to disposal procedure.

### RENDER SAFE PROCEDURE FOR ARMED CONDITION.

#### **WARNING**

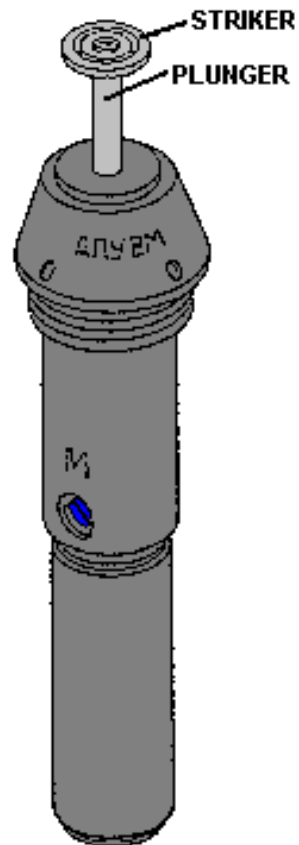
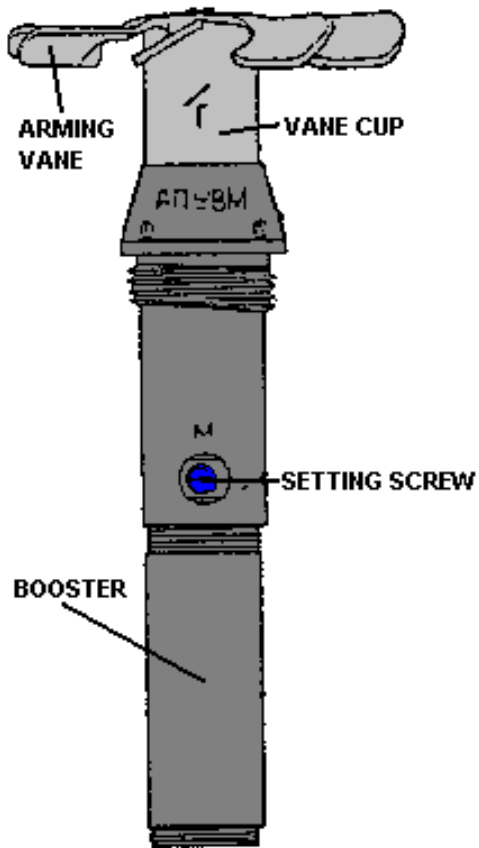
Do not depress or permit movement of the striker. These fuse have no out of line safety feature.

- a). Gag plunger and striker in position found.
- b). Manually remove fuse from bomb. If required, loosen fuse with an 18 Inch pipe wrench, or other suitable tool, placed on body.
- c). Proceed to disposal procedure.

#### **DISPOSAL PROCEDURE**

- a). Transport hazardous components to disposal area
- b). Dispose of by detonation

#### 4.14 APUVM



#### WARNINGS

- 1) Do not depress or permit of the striker.  
The fuse has no out-of-line safety feature.

#### FUSE DATA

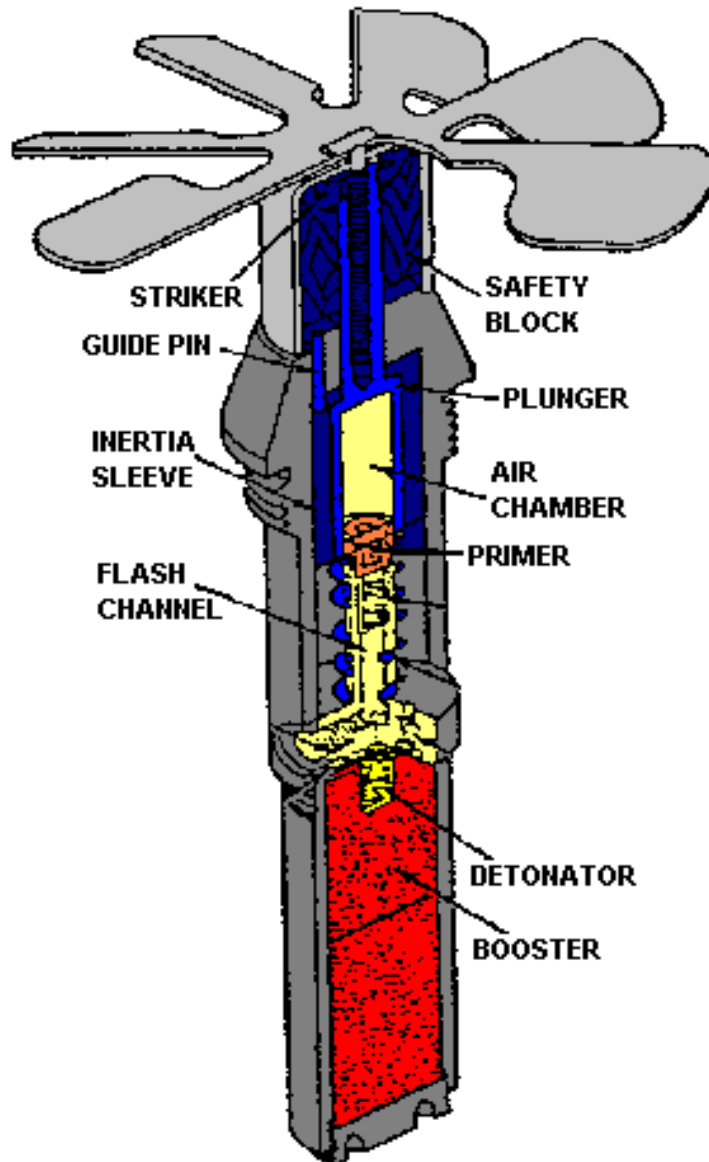
**TYPE:** Impact  
**MODEL:** APUVM  
**MATERIAL:** Steel  
**WEIGHT:** ???  
**MARKINGS:** ???  
**LENGTH:** 199.3mm

#### FUNCTIONAL DATA

**ARMING-** Dropping Away of Vane  
**METHOD:** Assembly

**SELF-  
DESTRUCT:** None  
**SAFETY-  
DEVICE:** Safety Wire

**USING PROJECTILES**  
**BOMB/ BRAB and FAB**



**ARMED**

Consider the fuse armed if the vane cup is missing, if the vane cup is not seated against the fuse body, or the fuse is damaged.

**UNARMED**

The fuse is unarmed if the vane cup is seated against the fuse body and the fuse is undamaged.

**HAZARDOUS**

The explosive train of these fuse consists of a primer (lead styphnate and potassium perchlorate), delay elements (black powder), a relay wafer and a detonator (lead styphnate, lead aside, and tetryl) each of which weight less than 1 gram.

The booster contains 51gram of tetryl. Some fuses have a relay pellet beneath the primer.

**USING WEAPONS:**  
**AIRCRAFT**

RSP-APUVM

RENDER SAFE PROCEDURE FOR UARMED CONDITION.

- a). Secure vane cup to fuse body with tape or other suitable material to prevent vane cup rotation.
- b). Manually remove fuse from bomb. If required. Loosen fuse with wrench, pipe adjustable 18 inch, or other suitable tool, placed on body.
- c). Proceed to disposal procedure.

RENDER SAFE PROCEDURE FOR ARMED CONDITION.

**WARNING**

Do not depress or permit movement of the striker. These fuse have no out of line safety feature.

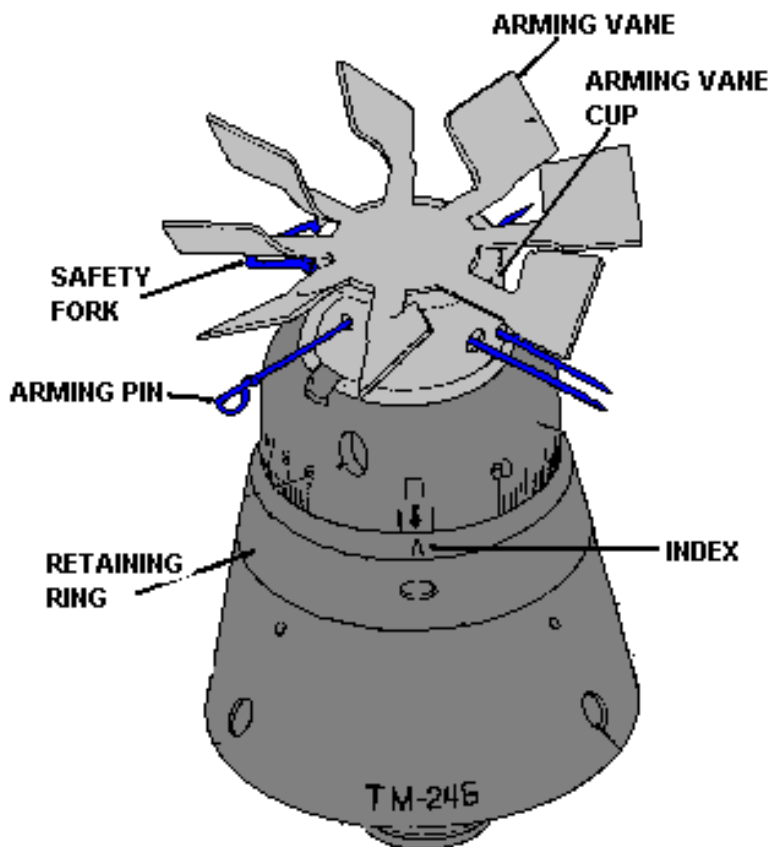
- a). Gag plunger and striker in position found.
- b). Manually remove fuse from bomb. If required, loosen fuse with an 18 Inch pipe wrench, or other suitable tool, placed on body.
- c). Proceed to disposal procedure.

**DISPOSAL PROCEDURE**

- a). Transport hazardous components to disposal area
- b). Dispose of by detonation



#### 4.15 TM-24A and B



#### WARNINGS

Do not disturb an armed fuse.  
These fuses contain a cocked firing pin.

#### FUSE DATA

**TYPE:** Mechanical Time  
**MODEL:** TM-24A and B  
**MATERIAL:** Steel  
**WEIGHT:** ???  
**MARKINGS:** TM-24A and B  
**LENGTH:** 93.4

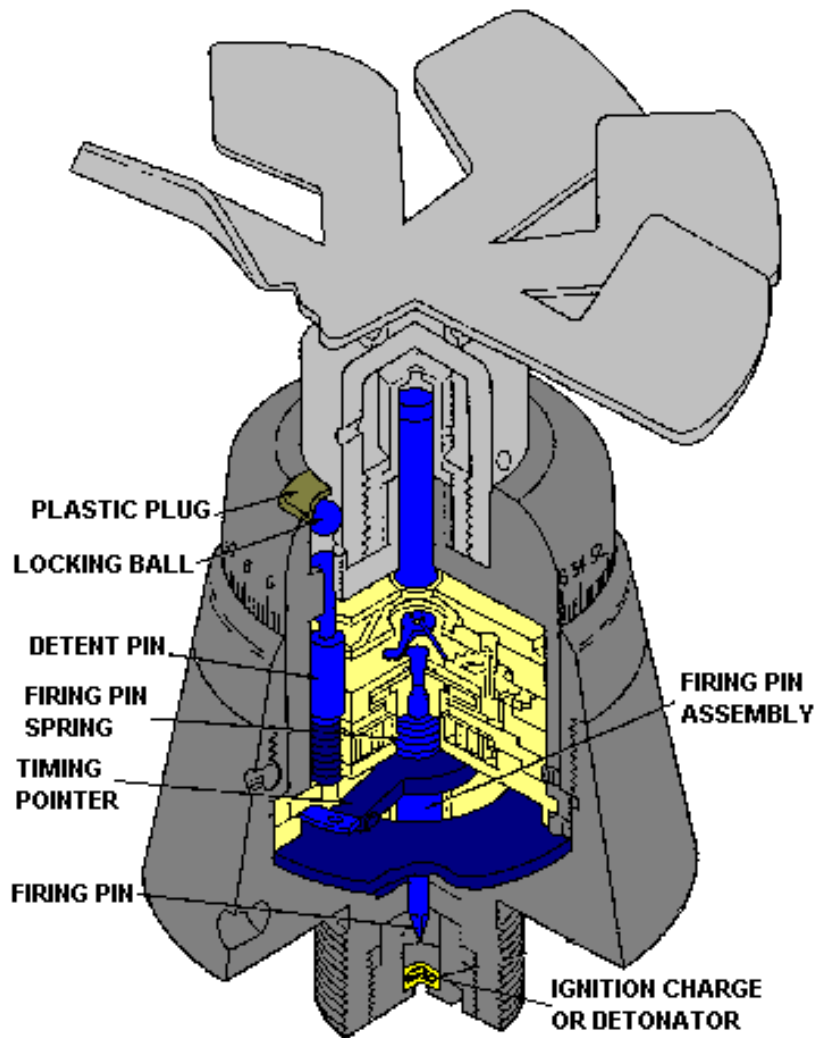
#### FUNCTIONAL DATA

**ARMING-METHOD:** Dropping Away of vane Assembly  
**SELF-DESTRUCT:** Time Setting  
**SAFETY-**

**DEVICE:** Arming Pin

**USING PROJECTILES**

????????????????????????????



**ARMED**

Consider the fuse armed if the arming vane assembly is not installed.

**HAZARDOUS**

The TM-24A fuse contains a detonator, and the TM-24B fuse contains an ignition charge, each of unknown weight and composition.

**UNARMED**

The fuse is unarmed if the arming vane assembly is installed.

**USING WEAPONS:**

????????????????????

RSP-TM-24A and TM-24B

RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

**SPECIAL WARNING**

This procedure is untested and is based on the best Technical data available.

- a). Gag arming vane assembly.
- b). Using a suitable tool, remove fuse by turning counterclockwise.
- c). Proceed to disposal procedure.

RENDER SAFE PROCEDURE FOR ARMED CONDITION.

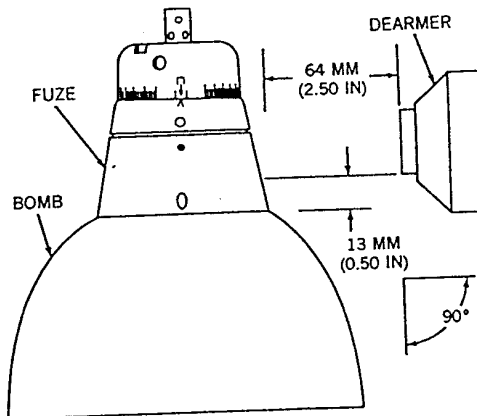
**SPECIAL WARNING**

This procedure is untested and is based on the best Technical data available.

**WARNING**

Do not disturb an armed fuse. The fuse contains a cocked firing pin.

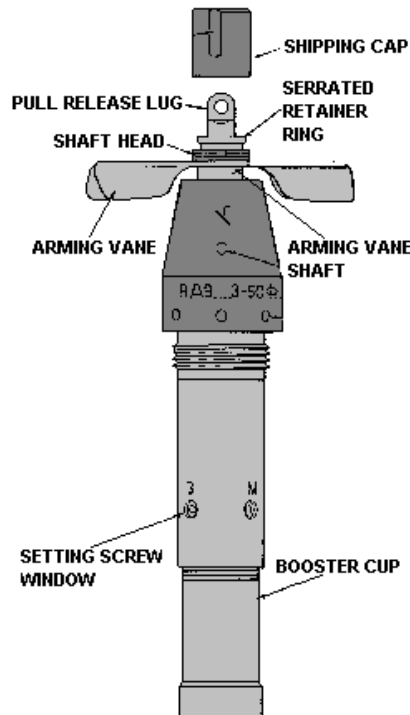
- a). Assemble a calibre .50 dearmmer with a standard slug and position as shown in figure.
- b). Initiate dearmmer.
- c). Proceed to disposal procedure.



**DISPOSAL PROCEDURE**

- a). Transport hazardous components to disposal area
- b). Dispose of by detonation/burning.

#### 4.17 VDV/VDV-1 and VDV-2



#### **WARNINGS**

- 1) Do not manually move the arming vane of an unarmed fuse. Movement of the vane may ignite the pyrotechnic composition beneath the bushing, resulting in a flash of fire between the arming vane shaft and retainer.
- 2) Do not move the pull-release lug on an unarmed fuse. Doing so may release the cocked striker and ignite the arming delay primer.
- 3) Do not jar an armed fuse except by remote. This is an all-way, and the firing pin may be embedded in the primer.
- 4) Do not move the arming vane of an armed fuse. Movement of the vane transmitted through the vane shaft and arming screw functions the all-way-firing mechanism.

#### **FUSE DATA**

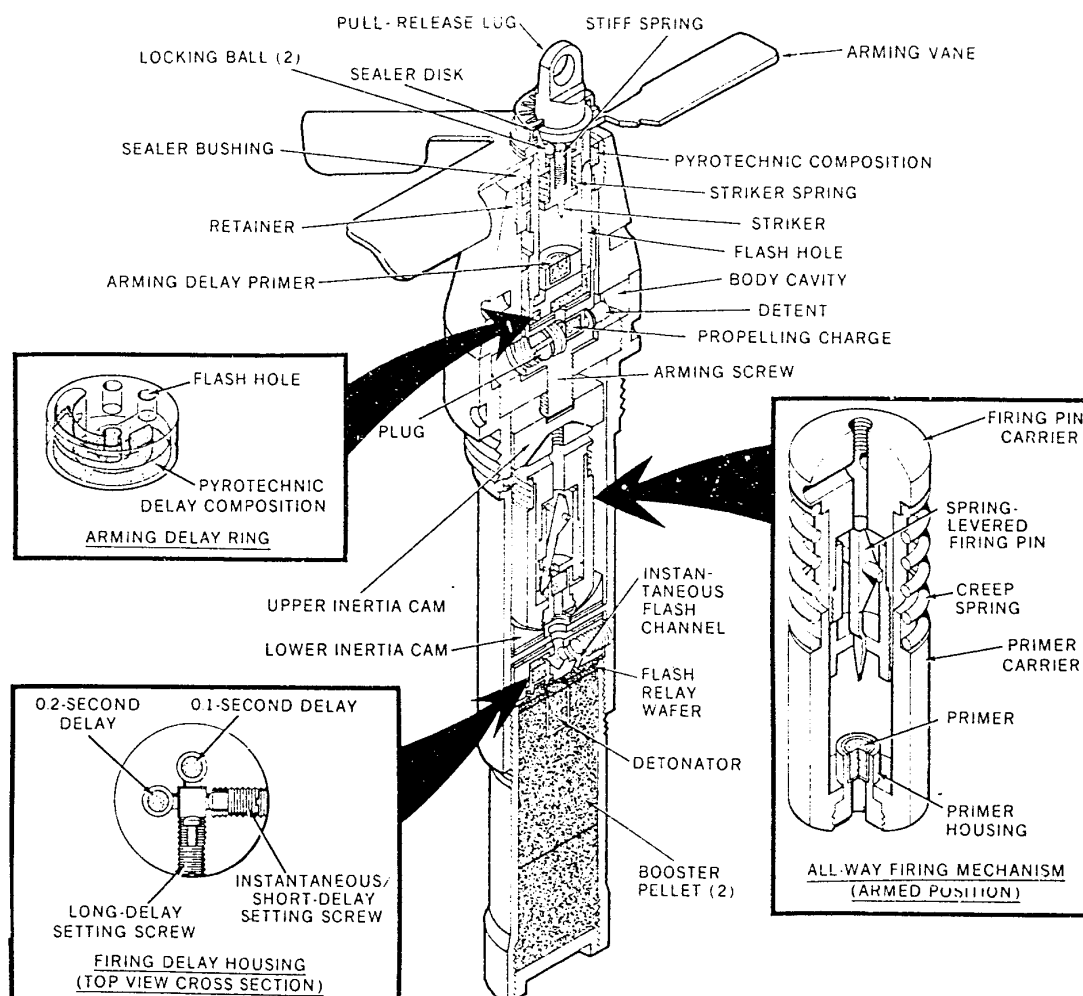
**TYPE:**  
**MODEL:** VDV/VDV-1 and VDV-2  
**MATERIAL:** Steel  
**WEIGHT:**  
**MARKINGS:** BAB 3-50 Ø  
**LENGTH:** 226mm

#### **FUNCTIONAL DATA**

**ARMING-METHOD:**  
**SELF-DESTRUCT:**  
**SAFETY-DEVICE:**

## USING PROJECTILES

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### ARMED

Consider the fuse armed if the pull-release lug is missing from the shaft head.

### UNARMED

The fuse is unarmed if the pull-release lug is retained in the shaft head by the serrated retainer ring and sealer disk.

### HAZARDOUS

Each fuse contains the following: less than 1 gram of pyrotechnic composition beneath the sealer bushing; an arming delay primer containing less than 1 gram of explosive; approximately 1 gram of pyrotechnic delay composition in the arming delay ring; a propelling charge, a primer, and a 0.1-second and/or 0.2-second delay, each containing less than 1 gram of explosive; a black powder flash relay wafer and a detonator containing lead styphnate, lead azide, and tetryl, each weighing approximately 1 gram; and two tetryl booster pellets weighing a total of 43 grams (1.5 ounces).

**USING WEAPONS:**

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RSP-VDV,VDV-1 and VDV-2

RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

**WARNING**

Do not manually move the arming vane of an unarmed fuse. Movement of the vane may ignite the pyrotechnic composition beneath the sealer bushing, resulting in flash of fire between the arming vane shaft and retainer.

Do not move the pull release lug on an unarmed fuse. Doing so may release the cocked striker and ignite the arming.

a). Manually remove fuse from bomb. If a wrench is required to break fuse loose, apply wrench, pipe 18 inch, or other suitable tool, to lower body.

**NOTE**

If the pull release lug is inadvertently dislodged, move away from the fuse. If the cocked striker is released, a flash of fire between the arming vane shaft and retainer will follow within seconds.

b). Proceed to disposal procedure.

RENDER SAFE PROCEDURE FOR ARMED CONDITION.

**WARNING**

Do not jar an armed fuse except by remote means. This is an all way fuse, and the firing pin may be embedded in the primer.

Do not move the arming vane of an armed fuse. Movement of the vane is transmitted the vane shaft and arming screw, and function the all way firing mechanism.

**NOTE**

If the arming vane is present, and the blades are not bent forward or back far enough to allow the impact wrench to be applied, use the manual removal method (secondary procedure) (intention next page)

- a).Remove fuse from bomb with mechanical impact wrench
- b).Proceed to disposal procedure

Secondary Procedure

- a).Manually remove fuse from bomb. If a wrench is required to break fuse loose, apply an 18-inch pipe wrench, or other suitable tool, to lower body.
- b). Proceed to disposal procedure.

**DISPOSAL PROCEDURE**

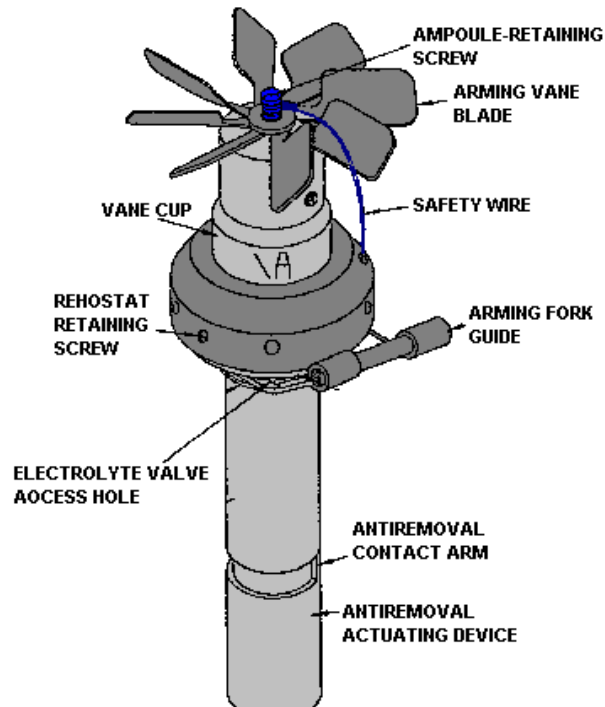
Unarmed Fuse

- a).Transport hazardous components to disposal area
- b).Dispose of by detonation/burning.

Armed Fuse

- a). Hand carry hazardous components to a disposal area, keeping fuse in a horizontal attitude, and dispose of by detonation.

#### 4.18 AVDM



#### WARNINGS

1) Do not depress an extended inertia plunger. Depressing the plunger of a fuse having an energised battery will arm or rearm the fuse, causing it to function.

2) Wait 24 days (576 hours), if possible, before attempting to render safe a bomb containing an armed fuse. This will allow the battery to bleed down below firing voltage.

3) Do not remove an armed and functioning fuse. As the fuse unscrews, the anti removal device will complete the firing circuit and detonate the bomb.

4) Do not remove a fuse from a bomb after the inertia plunger has been withdrawn (fuse rendered safe). Withdrawal of the inertia plunger removes only the delay—firing capability. The anti removal circuit remains active for the life of the battery.

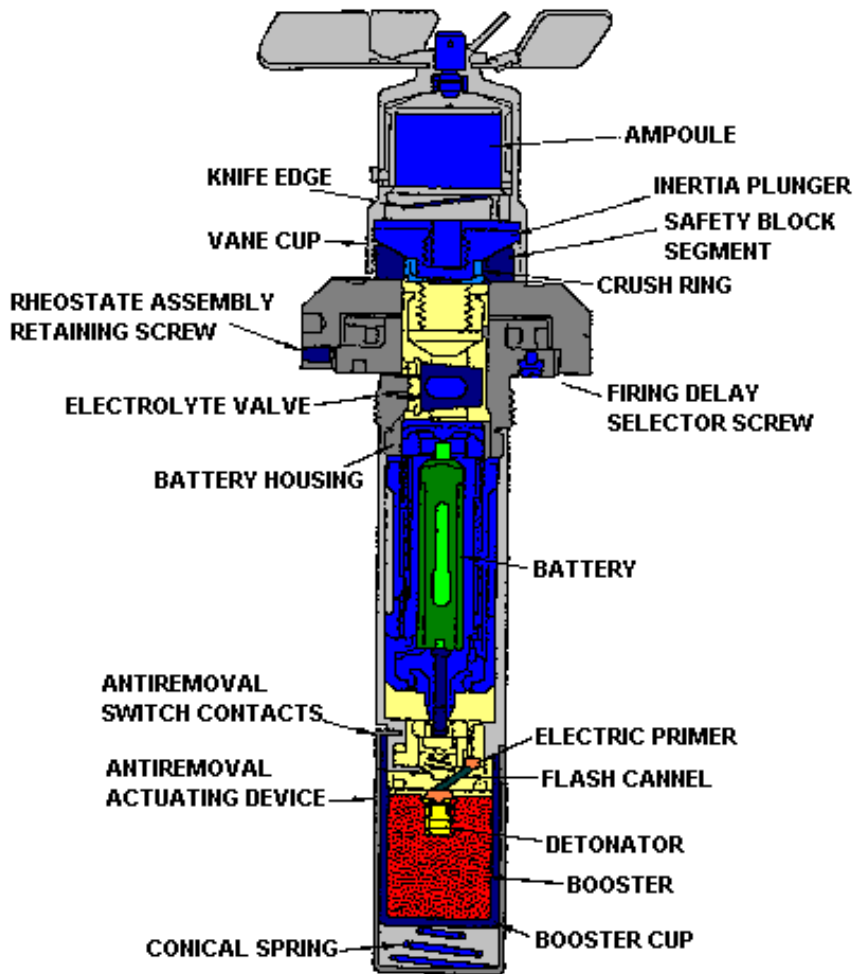
#### FUSE DATA

**TYPE:**  
**MODEL:** AVDM  
**MATERIAL:**  
**WEIGHT:**  
**MARKINGS:** ABAM  
**LENGTH:** 238mm

#### FUNCTIONAL DATA

**ARMING-**  
**METHOD:**  
**SELF-**  
**DESTRUCT:**  
**SAFETY-**  
**DEVICE:**





**UNARMED**

The fuse is unarmed if either of the following conditions exist...

- 1)The vane cup and safety-block segments are in place.
- 2)The vane cup and safety-block segments are not in place, but the inertia plunger is extended and the crush ring has not been deformed.

**ARMED**

Consider the fuse armed and functioning if the vane cup and safety block segments are in place, and the inertia plunger is depressed.

**HAZARDOUS**

The electric and the detonator each contain less than 1 gram of initiating explosive.  
The booster contains approximately 27 grams of tetryl.

**USING PROJECTILES**

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**USING WEAPONS:**

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## RSP-AVDM

### RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

#### NOTE

An extended inertia plunger will protrude 0.25 inch (6 millimetres) from the upper fuse body.

#### WARNING

Do not depress an extended inertia plunger. Depressing the plunger (figure 2) of a fuse having an energised battery will arm or rearm the fuse, causing it to function.

- a).If vane cup is in place, secure it with tape.
- b).If vane cup and safety—block segments are not in place, gag plunger in extended position with several turns of soft wire, or tape, placed between plunger and upper fuse body.
- c).Attach a wrench, pipe (pipe wrench), a wrench, strap (strap wrench) or a suitable substitute, to upper fuse body; remove fuse by turning it counterclockwise.
- d).Fill fuse well of bomb with rags or paper, cover with tape.
- e).Proceed to disposal procedure.

### RENDER SAFE PROCEDURES FOR ARMED CONDITION.

#### WARNINGS

Wait 24 days (576 hours), if possible, before attempting to render safe a bomb containing an armed fuse. This will allow the battery to bleed down below firing voltage.

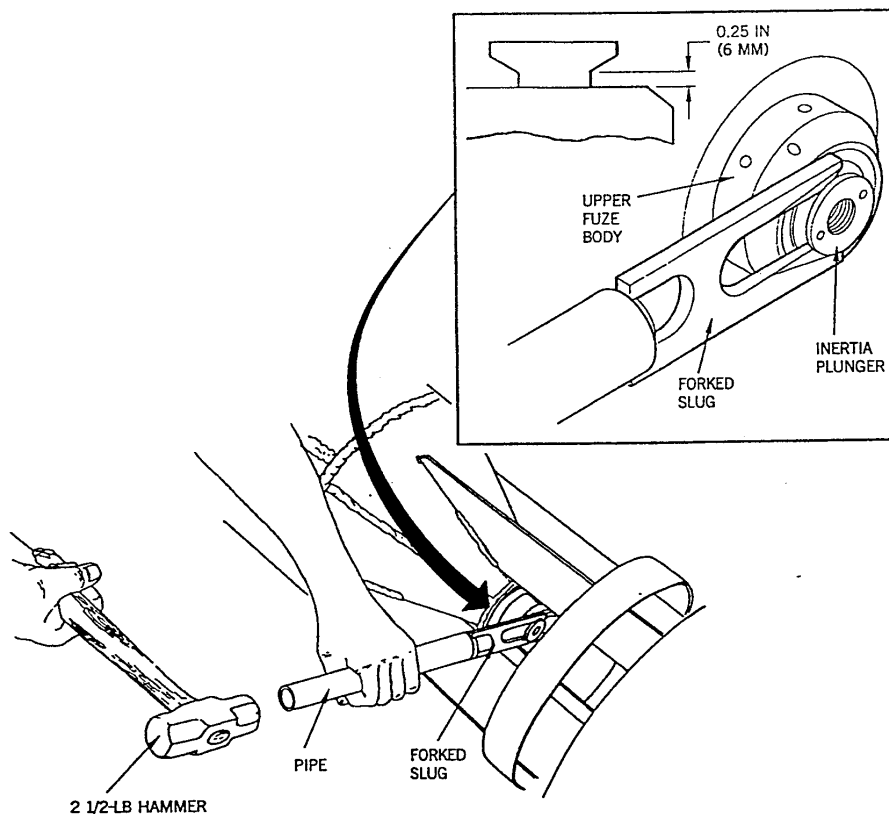
Do not remove an armed and functioning fuse. As the fuse unscrews, the anti removal device will complete the firing circuit and detonate the bomb.

Do not remove a fuse from a bomb after the inertia plunger has been withdrawn (fuse rendered safe). Withdrawal of the inertia plunger removes only the delay-firing capability. The anti removal circuit remains active for the life of the battery.

#### NOTE

The calibre .50 dearmers and the improvised dearmers may be completely assembled (explosive train completed and slug installed) prior to entry into the incident site.(intention next page)

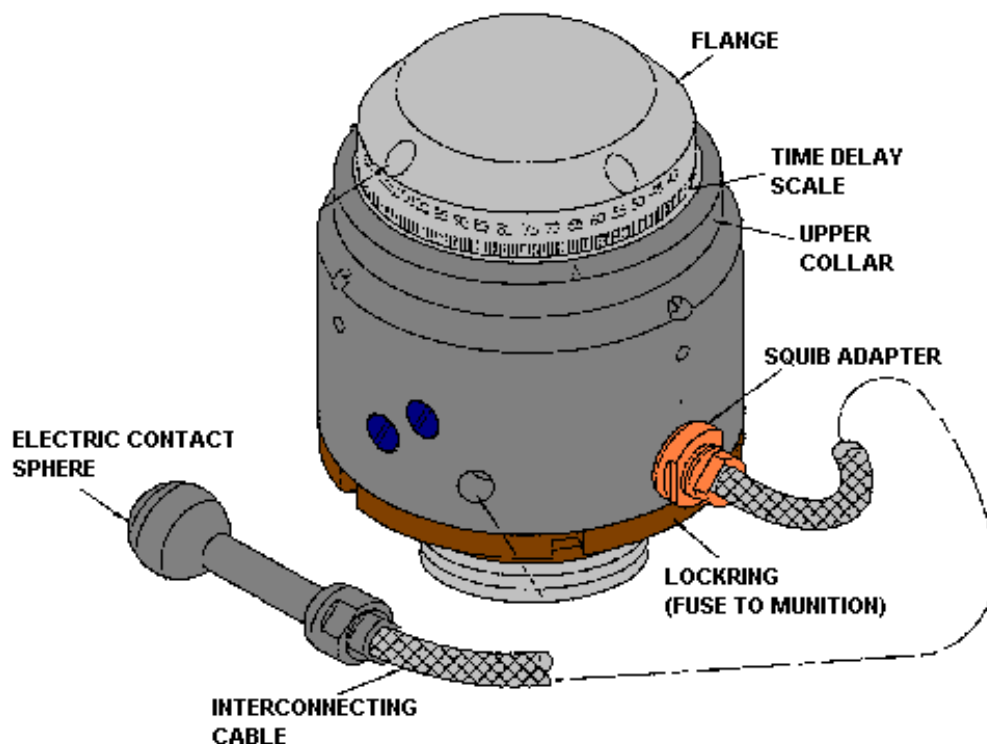
- a). If possible observe the 24-day (576 hour) wait time. Using a 1.00 Inch inside diameter by 12.00-inch long pipe a forked slug, and a 2 1/2 Pound hammer, or suitable substitutes, manually extend fuse inertia plunger as shown in figure.
- b). Inspect fuse to determine if inertia plunger has been withdrawn 0.25 Inch (6 millimetres). **Do not** remove fuse from bomb.
- c). If forked slug stays with fuse, gag inertia plunger with forked slug in place with several turns of tape.
- d). If forked slug does not stay with fuse, gag inertia plunger with several turns of soft wire or tape, placed between plunger and upper fuse body.
- e). Proceed to disposal procedure.



### DISPOSAL PROCEDURE

- a). Transport hazardous components to disposal area
- b). Dispose of by detonation

#### 4.19 ATM-EB and ATK-EB



#### WARNINGS

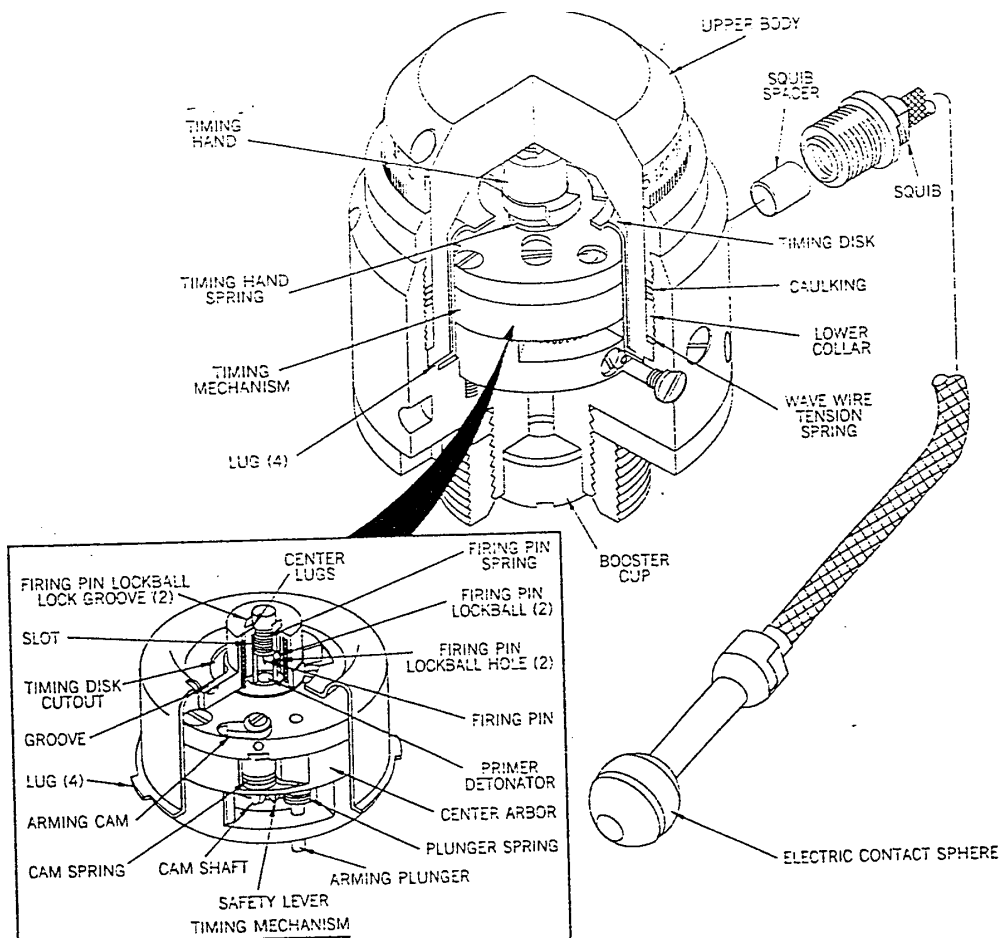
- 1) Consider the fuse always armed.  
There is no external means of determining if the fuse has received an electric pulse.
- 2) Do not jar or strike the fuse.  
The fuse contains a spring-loaded pin.

#### FUSE DATA

**TYPE:** Mechanical Time  
**MODEL:** ATM-EB and ATK-EB  
**MATERIAL:**  
**WEIGHT:**  
**MARKINGS:**  
**LENGTH:**

#### FUNCTIONAL DATA

**ARMING-**  
**METHOD:**  
**SELF-**  
**DESTRUCT:**  
**SAFETY-**  
**DEVICE:**



**ARMED**

**HAZARDOUS**

The fuse contains a squib, a primer detonator, and a booster, each of unknown weight and composition.

**UNARMED**

**USING PROJECTILES**

**USING WEAPONS:**

RSP-ATM-EB and ATK-EB

RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

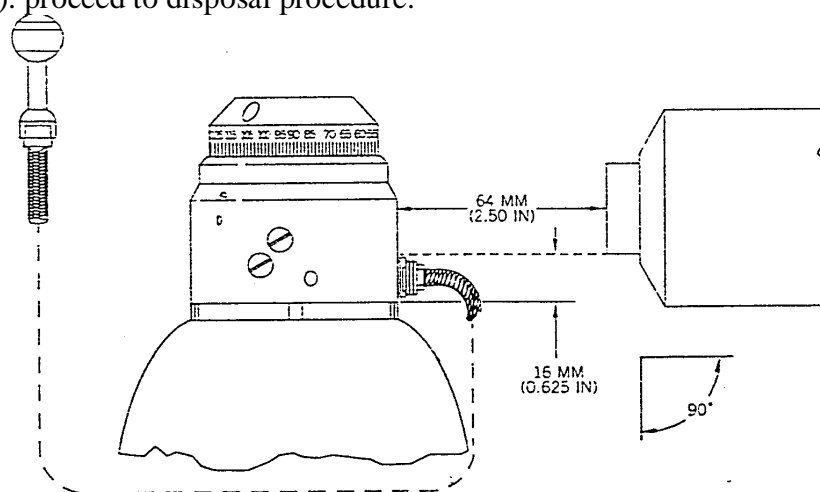
**SPECIAL WARNING**

This procedure is untested and is based on the best Technical data available.

**WARNING**

Consider the fuse always armed. There is no external means of determining if the fuse has received an electric pulse. Do not manually jar or strike the fuse. The fuse contain a spring loaded firing pin

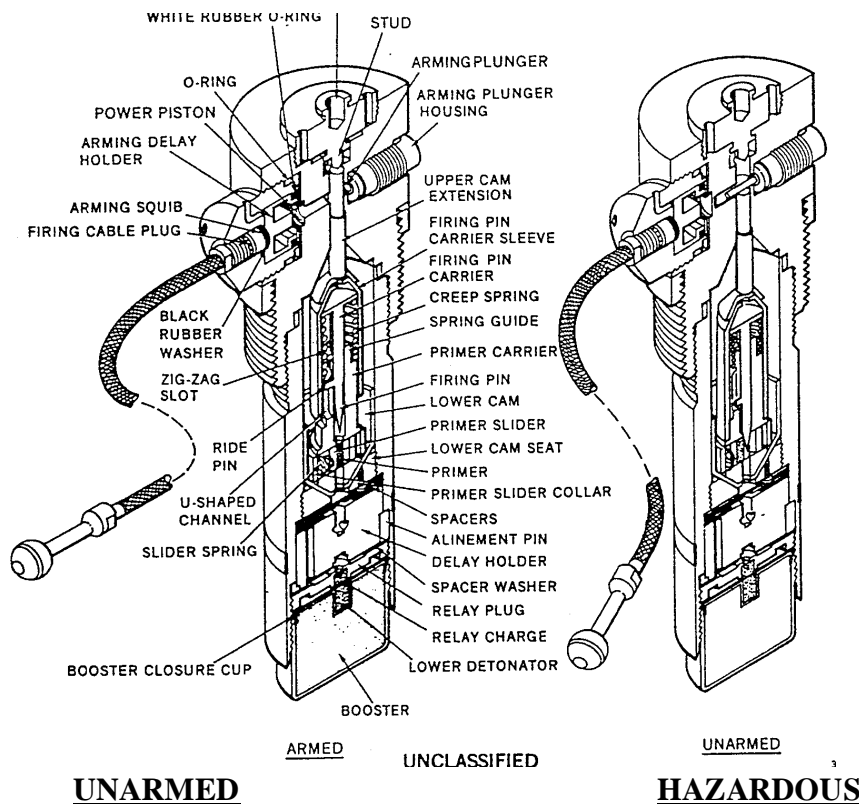
- a). Assemble a calibre .50 dearmmer with a standard slug, and position it as shown in figure.
- b).Fire dearmmer.
- c). Cover remainder of fuse with tape to prevent foreign material from entering fuse body.
- d). proceed to disposal procedure.



**DISPOSAL PROCEDURE**

- a).Transport hazardous components to disposal area
- b).Dispose of by detonation





**UNARMED**  
**The fuse is unarmed if one of the following applies.**

- 1) It is positively that the fuse has not received an electrical pulse to fire the arming squib.
- 2) The fuse is undamaged, permitting removal of the sensitivity selector plug, and after removal, visual inspection reveals that the arming plunger has not been withdrawn, preventing movement of the upper cam extension.

**ARMED**  
**Consider the fuse armed if one or more of the following apply.**

- 1) If it positively that the fuse has not received an electrical pulse to fire the arming squib.
- 2) The fuse is undamaged, permitting removal of the sensitivity selector plug, and, after removal visual inspection reveals that arming plunger has not been withdrawn, preventing movement of the upper cam extension.

**USING WEAPONS:**



## RSP-AVT-E

### RENDER SAFE PROCEDURE FOR UNARMED CONDITION.

- a). Using a wrench, spanner, hook, or other suitable tool, loosen lock ring by turning counterclockwise .
- b). Manually remove fuse from bomb. If required, loosen fuse using wrench, pipe adjustable(pipe wrench), 18 inch, or other suitable too, placed on upper fuse body.
- c). Carefully place fuse in metal container partially filled with sand or other cushioning material, and secure container lid in place.
- d).Proceed to disposal procedure.

### RENDER SAFE PROCEDURE FOR ARMED CONDITION.

#### **WARNING**

Handle an armed fuse carefully. The fuse contains an all way firing mechanism.

#### NOTE

If the interconnecting cable is present and interferes with the attachment of the wrench, cut the cable at the entrance to the arming delay plug with pliers, diagonal cutting, 6 inch, or other suitable tool.

- a). Using remote wrench (manual or cartridge actuated) rocket wrench or mechanical impact wrench.
- b).Carefully place fuse in metal container partially filled with sand or other cushioning material, and secure container lid in place.
- c). Proceed to disposal procedure.

#### Secondary Procedure.

- a). Using a hook spanner wrench, or other suitable tool, loosen lock ring by turning counterclockwise.
- b). Manually remove fuse from bomb. If required loosen fuse, using 18 Inch pipe wrench, or other suitable tool, placed on upper fuse body.
- c).Carefully place fuse in metal container partially filled with sand or

- other cushioning material, and secure container lid in place.
- d). Proceed to disposal procedure

## **DISPOSAL PROCEDURE**

### **NOTE**

Handle an armed fuse carefully. The fuse contain an all way firing mechanism

- a).Transport hazardous components to disposal area
- b).Dispose of by detonation