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**MINES AND BOOBY TRAPS**

**MILITARY TRAINING PAMPHLET**

**No. 40**

Part I. All arms show to deal with individual mechanisms

**1943**

(This pamphlet in conjunction with Part II supersedes  
Military Training Pamphlet No. 40, 1941)

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*Prepared under the direction of  
The Chief of the Imperial General Staff*

**THE WAR OFFICE,**

**May, 1943**

## PREFATORY NOTE

1. Military Training Pamphlet No. 40, Mines and Booby Traps, will consist of the following parts:—

Part I (All Arms)—How to deal with individual mechanisms.

Part II (All Arms)—Laying and rendering of British mines.

Part III (All Arms)—The breaching of minefields.

Part IV.—(In preparation).

2. The above-mentioned pamphlets should be studied by all commanders, i.e. battalion and upwards.

3. Blank pages are included in Part I for pasting in amendments which will be issued when new devices are taken into use.

## DISTRIBUTION (Part I)

All arms	...	...	...	...	...	D
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AMERICAN WINE M.I.

AMERICAN WINE

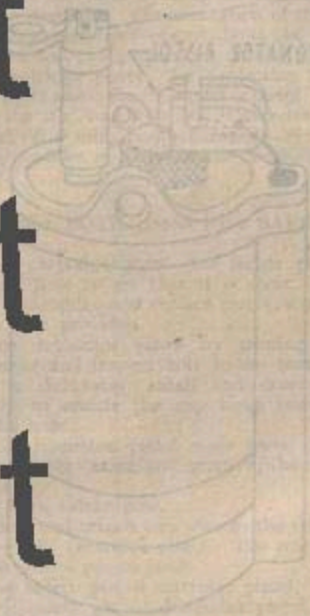
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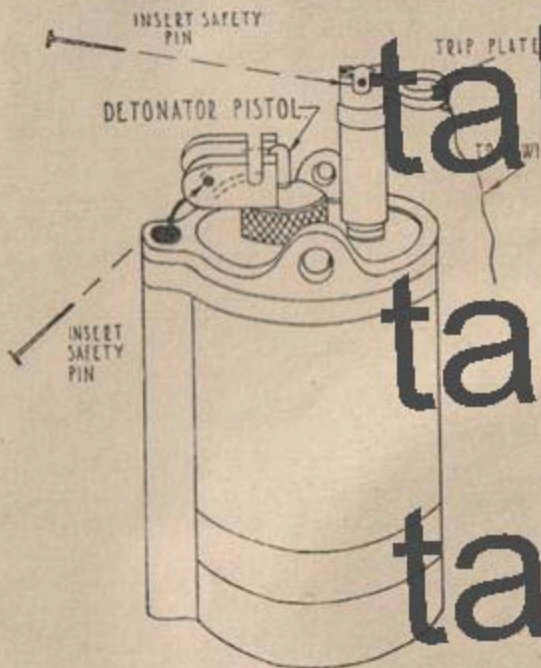


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BRITISH SHARPEL MINE MKII



## BRITISH SHRAPNEL MINE MKII



## SECTION 2.—ANTI-PERSONNEL MINE

### BRITISH SHRAPNEL MINE, MK I

Size.—Cylindrical, about 6 ins high and 3 ins diameter.

Weight.—About 10 lb (containing about 1 lb of explosive).

Safety device.—TWO safety pins.

Description.—The mine is designed to jump a few feet in the air before bursting. Fragmentation of the thick casing produces the anti-personnel effect. It is set off by a trip wire. The mine has two projections on the top. The taller one is the "cartridge pistol" for projecting the mine into the air. The other one is the "detonator pistol" for exploding the mine in the air, and consists of a release mechanism similar to that on a Mills bomb. (Grenade 38 m).

The lever arm slides in a slot in the outer casing in which the mine sits.

#### To arm

- i. Ensure that BOTH pistols have SAFETY PINS IN.
- ii. Remove cartridge pistol (the larger projection) and inspect hole to see that it is clear.
- iii. Insert cartridge and replace pistol, screwing up tight with key provided.
- iv. Remove detonator pistol by turning knurled ring *clockwise* and inspect hole to see that it is clear.
- v. Insert a detonator, small end downwards. Shake gently to ensure the cap head rests on shoulder of the hole.
- vi. Replace detonator pistol with lever down the slot in the outer casing and screw up knurled ring *anti-clockwise*.
- vii. Check both safety pins.
- viii. Lay mine and attach trip wire to the trip plate on the top of the cartridge pistol. Too much tension will cause safety pin to jamb.
- ix. Remove safety pin of cartridge pistol.
- x. Remove safety pin of detonator pistol, being careful not to disturb the mine.

#### To neutralize

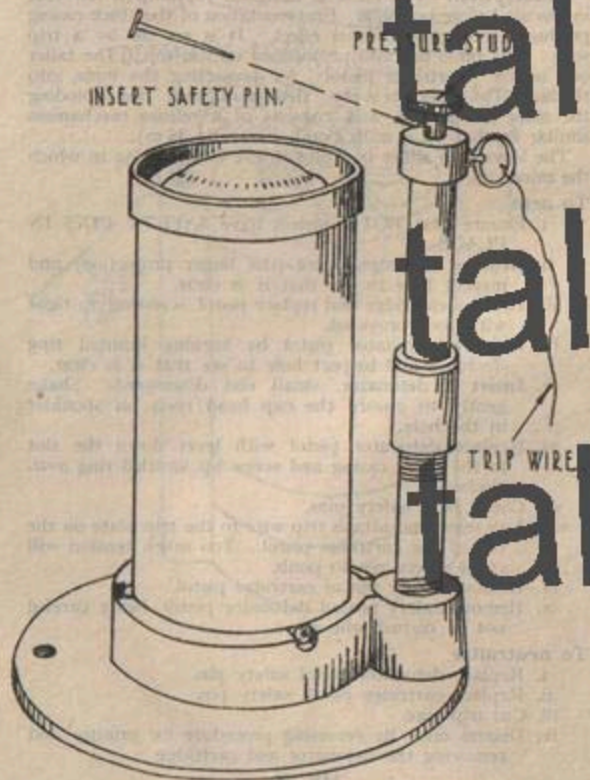
- i. Replace detonator pistol safety pin.
- ii. Replace cartridge pistol safety pin.
- iii. Cut trip wire.
- iv. Disarm mine by reversing procedure for arming and removing the detonator and cartridge.

#### MK II

Almost exactly the same, but the lever arm of the detonator pistol is longer.



## AMERICAN MINE M2



## ANTI-PERSONNEL MINE

### AMERICAN MK 2

Size. — About 7 ins by 4 ins.

Weight. — About 8 lb (containing about 1 lb of explosive).

Safety device. — Safety pin in the igniter.

Description. — This mine is similar in action to the British Slapmine.

The firing device can be operated either by pulling on a trip wire or by pressure on the knob.

#### To neutralize

- i. Place a nail or piece of strong wire in the safety pin hole in the igniter.
- ii. Cut the trip wire or remove pressure knob (whichever applies).
- iii. Unscrew the igniter.

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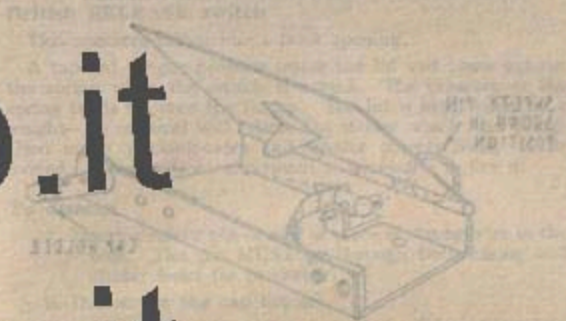
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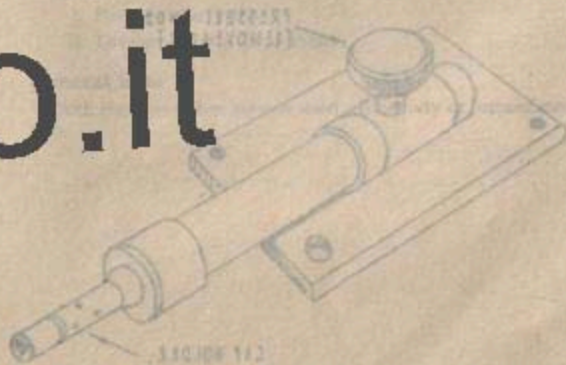


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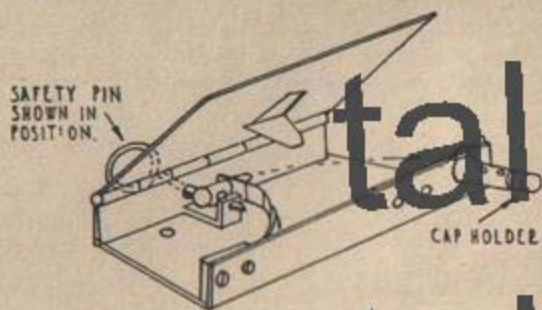
BRITISH RELEASE SWITCH



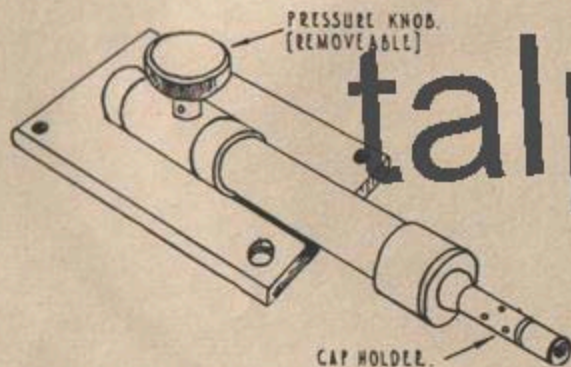
BRITISH PRESS SWITCH





BRITISH RELEASE SWITCH.

## BRITISH PRESS SWITCH.



## SECTION 3.—BOOBY TRAP SWITCHES

**British RELEASE switch**

This operates rather like a book opening.

A tapered tongue projects inside the lid and bears against the spring which the switch is armed. The pressure of the spring tends to force the lid up. The lid is kept down by a weight—its removal will release the striker which fires a cap. Used under packing-cases and similar objects likely to be moved. Only a slight movement is necessary to fire it.

**To disarm**

- i. Insert a safety pin or nail or piece of strong wire in the hole. The pin **MUST** go through both casing and striker head (as in sketch).
- ii. Disconnect the cap holder.

*Note.*—If you cannot get at the switch to insert a safety pin you may be able to cut the fuze coming from it.

**British PRESS switch**

This switch is operated by pressure on the knob which releases a spring-loaded striker. It may be used under boards, mats, etc., and is fired by a weight of about 30 lb.

**To disarm**

- i. Remove the knob.
- ii. Disconnect the cap holder.

**General note**

Both these switches may be used with safety or instantaneous fuzes.

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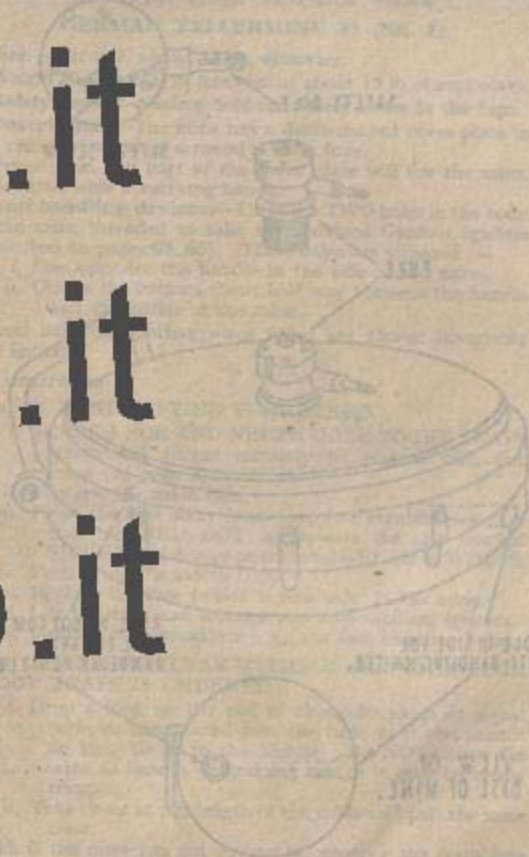
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GERMAN TELEPHONE 35 (No. 1)



## GERMAN TELLERMINE 35 (No. 1)

CHAPTER II  
SECTION 4.—ANTI-TANK MINE

## GERMAN TELLERMINE 35 (No. 1)

**Size.**—Circular, about 13 ins diameter.  
**Weight.**—About 20 lb (containing about 12 lb of explosive).  
**Safety device.**—Safety bolt and safety screw in the fuze.  
**Description.**—The mine has a dome-shaped cover plate in the centre of which is screwed a brass fuze.  
 Pressure on any part of the cover plate will fire the mine. It is fitted with a carrying handle.

**Anti handling devices.**—There are TWO holes in the body of the mine threaded to take the standard German igniters (described on pages 63, 65). These holes are situated:—  
 i. One opposite the handle in the side of the mine.  
 ii. One at the bottom about half way between the handle and the centre of the mine.

Anti handling igniters when fitted are almost invariably pulled igniters.

**Neutralize****(a) IF HAND LIFTING IS ORDERED**

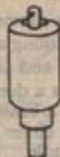
- i. SEARCH FOR AND NEUTRALIZE BOOBY TRAPS which will almost certainly be present with this mine (see page 3).
- ii. Unscrew the main fuze.
- iii. Point the fuze away from you, and turn the screw so that the RED DOT is opposite the slot marked SICHER which may be coloured GREEN or WHITE.
- iv. Push home the safety bolt.
- v. Replace the fuze (which is now safe) in the mine.
- vi. Lift the mine and unscrew any anti-handling igniters.
- vii. Remove the detonators from the anti-handling holes.

**(b) IF PULLING CLEAR WITHOUT SEARCHING FOR BOOBY TRAPS IS ORDERED**

- i. Drop a loop on the end of about 50 yards of signal cable or strong cord over the fuze, or if you cannot do this, tie it to the handle. Do NOT move the mine or handle while doing this as it may be booby trapped.
- ii. Take cover at full length of the cable and pull the mine clear.
- iii. If the mine has not detonated, unscrew the main fuze and make it safe by carrying out iii and iv as for hand lifting.
- iv. Replace the fuze.



# GERMAN TELLERMINE 42 (No 2)



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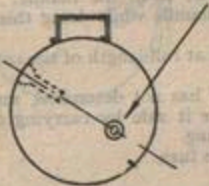
HEXAGONAL CAP



HOLE FOR ANTI HANDLING IGNITER.

HOLE IN BASE FOR ANTI HANDLING IGNITER

VIEW OF BASE OF MINE



## ANTI-TANK MINE

### GERMAN TELLERMINE 42 (No. 2)

In general appearance this mine is similar to the Tellermine 35 (No. 1) with the following important differences:—

- i. The fuze is quite different. It is much smaller, has a button or screw on to the bottom of it, SLIDES into the fuze box and works on the same principle as the fuze of our own Mk V mine fuze, but has no safety device.
- ii. When in position a hexagonal cap screws over it to cover.
- iii. The holes for anti-handling igniters are in a different position in relation to the handle. (See sketch.)
- iv. The pressure plate is fluted and extends over only about half of the top of the mine.

#### To neutralize

##### (a) IF HANDBOOK LIFTING IS ORDERED

- i. SET RECOVER AND NEUTRALIZE BOOBY TRAPS which will almost certainly be present with this mine. (See page 3.)
- ii. Unscrew hexagonal cap.
- iii. Remove fuze and replace hexagonal cap.
- iv. Unscrew anti-handling igniters and remove detonators.

##### (b) IF PULLING CLEAR IS ORDERED

- i. Drop a loop on the end of about 50 yards of signal cable or strong cord over the fuze, or if you cannot do this tie it to the handle. Do NOT move the mine or handle while doing this, as it may be booby trapped.
- ii. Take cover at full length of the cable and pull the mine clear.
- iii. If the mine has not detonated, unscrew hexagonal cap.
- iv. Remove fuze and replace hexagonal cap.

## ANTI-TANK MINE

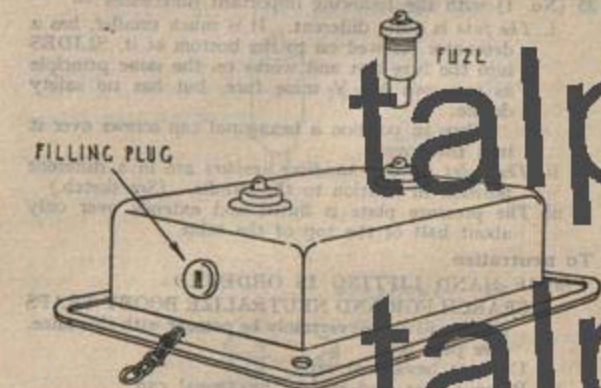
### GERMAN TELLERMINE No. 3

This mine is really the Tellermine No. 1 with a fluted cover plate. It may also be found with a Tellermine No. 2 (type) fuze, in which case a screwed plug with a milled head screws into the hole in the cover plate over the fuze in the same way as the hexagonal cap in the Tellermine No. 2.

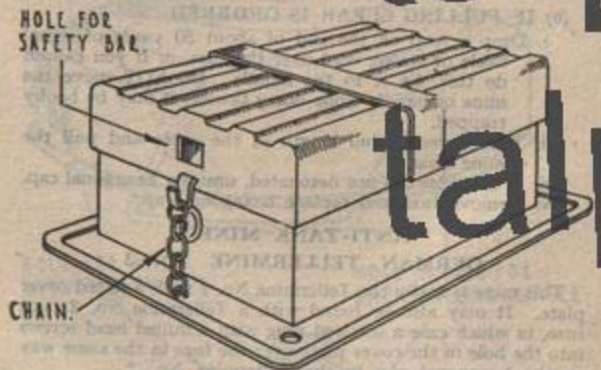
#### To neutralize

Follow the instructions for Tellermine No. 1 or 2 according to the type of fuze.

## FRENCH LIGHT ANTI-TANK MINE



MINE WITHOUT LID.



MINE COMPLETE.

## ANTI-TANK MINE

### FRENCH LIGHT ANTI-TANK MINE

Size.—10 ins long by 9 ins wide by 5 ins high.

Weight.—About 12 lb (containing about 6 lb of explosive).

Safety device.—None in the fuze.

A safety bar can be slipped in between the fuzes and the lid.

Description.—The mine consists of a rectangular box with a corrugated cover, which is held down on to the mine by a chain at each end.

Two fuzes of similar type to our Mk 5 fuze screw into the mine under the lid.

#### To neutralize

(a) IF HAND LIFTING IS ORDERED

i. SEARCH FOR AND NEUTRALIZE BOOBY TRAPS.  
(See page 3.)

ii. Carefully remove chain from one end and without exerting pressure lift the lid.

iii. Unscrew and remove fuzes, taking care not to press on the centre of the striker heads.

iv. Handle the fuze with care after removal as the detonator is still fixed to it. Accidents have occurred through careless handling after removal.

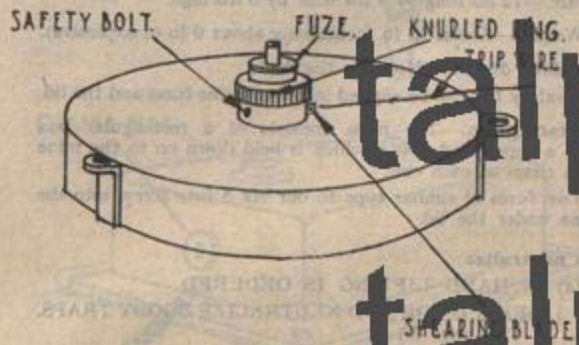
(b) IF PULLING CLEAR WITHOUT SEARCHING FOR BOOBY TRAPS IS ORDERED

i. Carefully attach a 50 yard length of signal cable to the mine and pull clear.

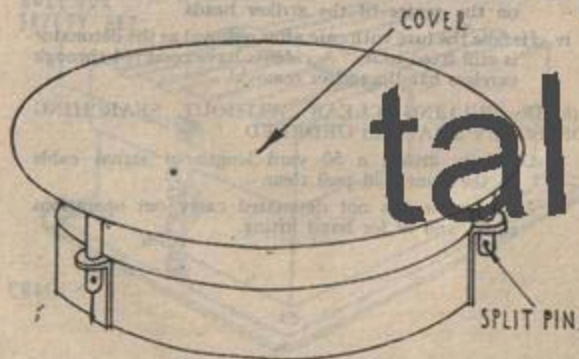
ii. If the mine has not detonated carry out operations ii, iii, and iv for hand lifting.



# HUNGARIAN MINE C.V.P.I.



MINE WITHOUT COVER



MINE COMPLETE.

# ANTI-TANK MINE HUNGARIAN C.V.P.I.

This mine may also be set as an anti-PERSONNEL mine

Size.—Circular about 8 ins diameter and 3 ins high.

Weight.—About 8 lb (containing about 4 lb. of explosive).

Safety device.—A hole in the side of the fuze to take a safety bolt.

Description.—The mine has a cover, which acts as a pressure plate, sitting on top of the fuze which screws into the body of the mine. Attached to the pressure plate are three vertical legs which slide in brackets attached to the body, and may be held down by split pins through the legs under the brackets. The fuze can be adjusted to fire at varying pressures, giving an anti-TANK mine or an anti-PERSONNEL mine fired by pressure or a trip wire.

### To disarm

As this mine may be set to go off at light pressure, BE CAREFUL.

#### (a) IF LIFTING BY HAND IS ORDERED

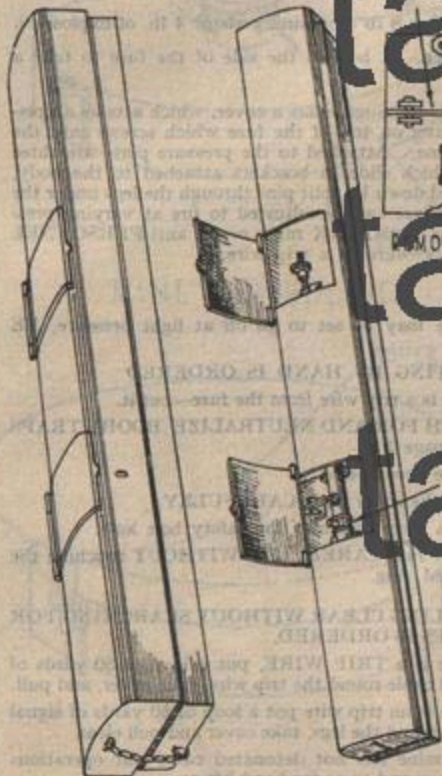
- i. If there is a trip wire from the fuze—cut it.
- ii. SEARCH FOR AND NEUTRALIZE BOOBY TRAPS (See page 3).
- iii. Free the cover plate.
- iv. Lift off the cover plate CAREFULLY.
- v. Insert a large nail into the safety bolt hole.
- vi. Unscrew fuze CAREFULLY WITHOUT touching the knurled ring.

#### (b) IF PULLING CLEAR WITHOUT SEARCHING FOR BOOBY TRAPS IS ORDERED.

- i. If there is a TRIP WIRE, put a loop of 50 yards of signal cable round the trip wire, take cover, and pull.
- ii. If there is no trip wire put a loop of 50 yards of signal cable round the legs, take cover and pull clear.
- iii. If the mine has not detonated carry-out operations iii, iv, v and vi as for hand lifting.

## ITALIAN MINE

B.2



## ANTI-TANK MINE

ITALIAN B2

Size.—8 ft 6 ins by 5 ins by 5 ins.

Weight.—Approx 33 lb (containing about 7 lb of explosive).

Safety device.—A removable cap holder.

Description.—The mine is a rectangular metal box, with an oval cover attached by chains at each end. There are two inspection lids in the cover. The charge is placed in both ends of the box. The firing mechanism is in the middle. The striker is held clear of the cap by a wire, which is sheared by a knife edge on the underside of the lid when it is pressed down.

## To disarm

(a) IF LIFTING BY HAND IS ORDERED

- i. SEARCH FOR AND NEUTRALIZE BOOBY TRAPS (See page 3.)
- ii. Open both inspection lids carefully.
- iii. Remove CAP HOLDER CAREFULLY (see inset sketch) and DO NOT TOUCH THE LEVER.

(b) IF PULLING CLEAR WITHOUT SEARCHING FOR BOOBY TRAPS IS ORDERED

- i. Pull clear with 50 yards of cable.
- ii. Carry out i and iii as for hand lifting, if mine is still there.



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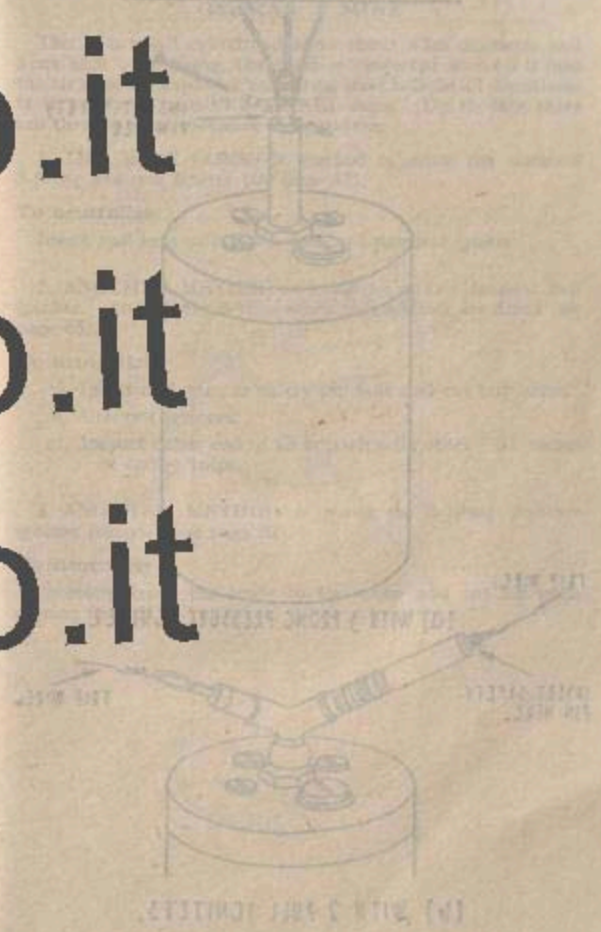
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GERMAN'S MINE



## GERMAN 'S' MINE



## SECTION 5.—ANTI-PERSONNEL MINE

### GERMAN 'S' MINE

This is a small cylindrical mine about 4 ins diameter and 5 ins high. On firing, the mine is projected about 3 ft into the air where it explodes, scattering steel balls in all directions. It is purely an ANTI-PERSONNEL mine. Up to date there are three normal methods of operation.

1. THE MOST COMMON method is using the *standard 3-prong pressure igniter* (see page 63).

#### To neutralize

Insert nail into safety pin hole and unscrew igniter.

2. ANOTHER METHOD is using *one or two standard pull igniters*. An *antenna* is used when pull igniters are fitted (see page 65).

#### To neutralize

- i. Insert nail, etc., in safety pin hole and cut trip wires.
- ii. Unscrew igniters.
- iii. Inspect other end of all trip wires for other "S" mines or booby traps.

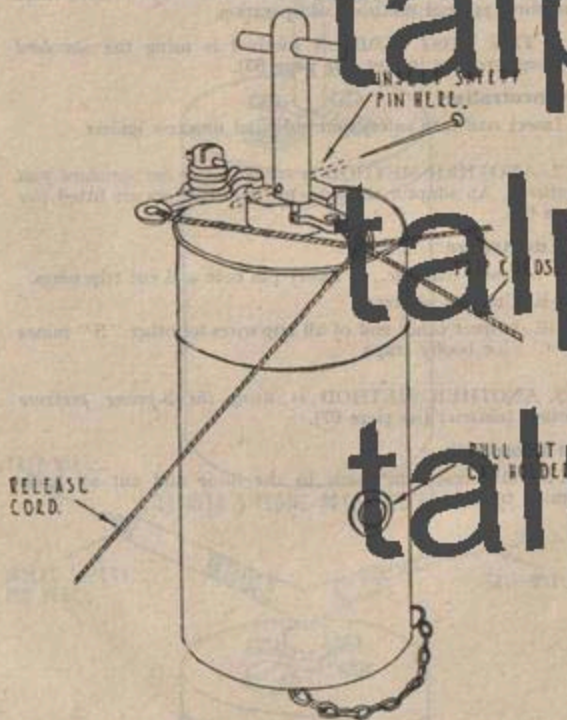
3. ANOTHER METHOD is using the *3-prong pressure igniters (electric)* (see page 67).

#### To neutralize

Carefully trace the leads to the mine and cut all leads coming from it.



## ITALIAN MINE B.4.



## ANTI-PERSONNEL MINE

### ITALIAN B4

This is a strappel mine and on discharge scatters scrap metal. It is usually fixed above the ground to a tree or post as it has the "jack-in-the-box" effect like the British and German types but has been used buried. It is fired by pulling a trip wire or by cutting a tension wire.

To neutralize:

- i. Withdraw cap holder.
- ii. Insert stout wire or nail in safety pin hole in striker.
- iii. Release cords, checking other ends for booby traps.

ITALIAN MILITARY  
ITALIAN DI

This is a standard mine and an obsolete weapon  
used in the ground to a tank or post  
of the Italian and other forces. It is used in  
the ground.

It is used in the ground to a tank or post  
of the Italian and other forces. It is used in  
the ground.

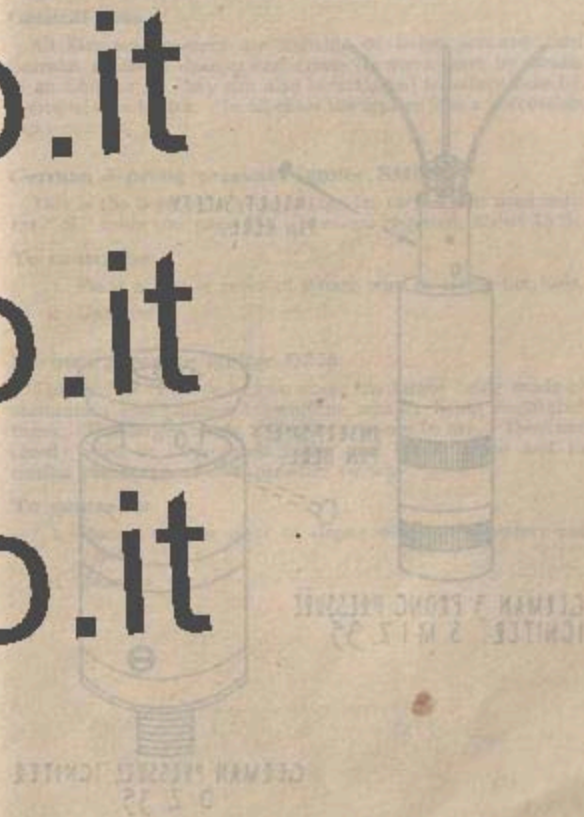
ITALIAN  
MILITARY

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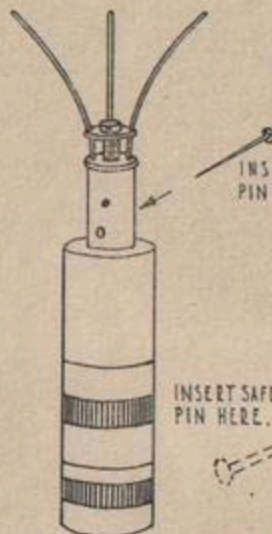


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GERMAN IGNITERS

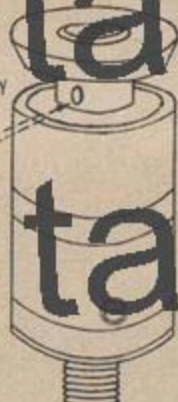


## GERMAN IGNITERS



GERMAN 3 PRONG PRESSURE  
IGNITER. S. M. I. Z. 35

INSERT SAFETY  
PIN HERE.



GERMAN PRESSURE IGNITER  
D Z. 35.

## SECTION 6.—GERMAN IGNITERS

(FOR MINES OR BOOBY TRAPS)

### General note

All German igniters are capable of being screwed into German side-pull charges and mines (in some cases by means of an adaptor). They can also be attached to safety fuze by means of an adaptor. In all cases the igniter fires a percussion cap.

### German 3-prong pressure igniter SMIZ35

This is the 3-pronged pressure igniter most often used with the "S" mine (see page 55). Pressure required, about 15 lb.

### To neutralize

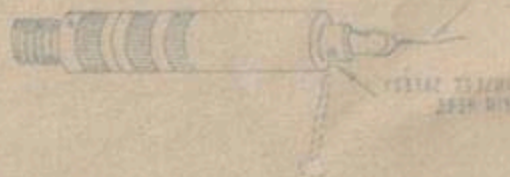
- Place a ball or piece of strong wire in safety-pin hole.
- Unscrew.

### German pressure igniter DZ35

The igniter is made in two sizes, the larger being made of aluminium and painted brown, the smaller being unpainted brass. The larger needs a greater pressure to fire. They are chiefly used in improvised mines and booby traps and in similar places to our own pressure switch.

### To neutralize

- Place a ball or piece of strong wire in the safety-pin hole.
- Unscrew.

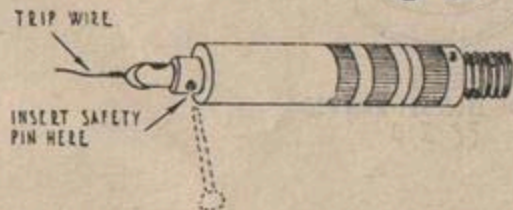




GERMAN PULL IGNITER  
ZDSCHN ANZ 29 (FRICTION).



GERMAN PULL IGNITER ZZ 35.



GERMAN IGNITERS  
(FOR MINES OR BOOBY TRAPS)

German pull igniter (friction) ZDSCHN ANZ29

This igniter can be recognized by the large ring attached to the end. It may be found with "S" mines and in booby traps.

To neutralize

i. Unscrew carefully and unscrew igniter.

N.B.—This igniter has no safety pin.

German pull igniter ZZ35

Action very similar to our pull switch and it is used with trip wire the same way. Used with "S" mines either singly or in pairs, and in booby traps.

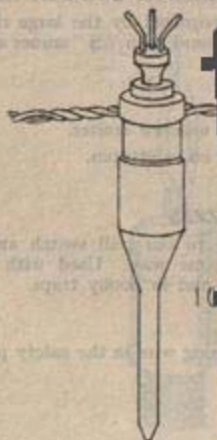
To neutralize

i. Place a lead or strong wire in the safety pin hole.

ii. Unscrew.

## GERMAN 3 PRONG PRESSURE IGNITER

ELECTRIC TYPE.



S. MINE  
FITTED FOR USE WITH THIS IGNITER.

## GERMAN IGNITERS

(FOR MINES OR BOOBY TRAPS)

German 3-prong pressure igniter (electric), EM MI 240

Used with the "S" mine this is a variation of the standard 3-prong pressure igniter, which fires an electric detonator in the mine. This set up is usually found with one mine operated by any of 18 igniters used in two chains of 9, thus increasing the radius of action of the mine.

To neutralize

Trace leads to mine and cut all leads coming from mine.



GERMAN'S TREATY OF COMMERCE  
AND CONSULAR RIGHTS WITH THE UNITED STATES  
OF AMERICA

ARTICLE I. The most favored nation clause.  
ARTICLE II. The most favored nation clause.  
ARTICLE III. The most favored nation clause.  
ARTICLE IV. The most favored nation clause.  
ARTICLE V. The most favored nation clause.

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THE UNITED STATES OF AMERICA  
AND THE GERMAN EMPIRE

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