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 recording of British

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 | *** | 2000 | *** | - | *** | *** | | D |
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BRITISH MINE MK V.





CHAPTER I

SECTION I.-ANTI-TANK MINE

BRITISH MK V

Size. - Circular/8 ins diameter, 4 ins high.

Weight .- About 12 lb (containing about 8 lb explosive).

Safety device. Safety pin in the top of the fuze.

Description. The fuze sits in a pocket in the centre of the top of the mine; over it sits a tin cap on a rubber washer to keep moisture out of the fuze pocket. The fuze is operated by a spider frame which fits over the top of the mine and is held in place by study which fit into slotted straps on the side of the mine.

To arm

- i. Check that the shear wire of fuze is not damaged (if it is—discard the fuze).
- ii. Put the fuze in the mine and remove the safety pin with a horizontal pull using pliers.
- in Place the rubber washer and tin cap over it and replace spider cover.

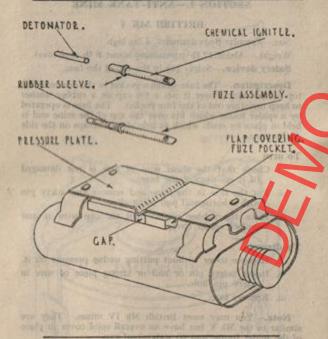
To disarm

- i. Remove cover without putting undue pressure on it.
 ii Insert safety pin or nail or strong piece of wire in
 safety pin hole.
 - iii. Remove fuze.

Note.—You may meet British Mk IV mines. They are similar to the Mk V but have an overall solid cover in place of the spider frame, and no waterproof cap.

(MK II) IGNITER

BRITISH No75 GRENADE MINE. MK.I.





AMERICAN MINE M.I

ANTI-TANK MINE

BRITISH No. 75 GRENADE MINE, MK I

Size .- 7 ins by 4 in

Weight.—About 3 lb (containing about 11 lb explosive).

Safety device.- Nil.

Description.—The mine is operated by the V-shaped indent on the pressure plate crushing the chemical igniters of the fuze.

To arm

- Assemble the fuze by inserting detonator into igniter (putting the open ends together) and fasten with the rubber sieve on the igniter.
- ii. Insert a faze into each of the two pockets under the pressure plate, pushing the detonator end in first, and ensure that the RED paint is visible in the gap.
- iii. Close the flaps at the ends of the pockets to prevent

To disarm

pen be flaps and remove both fuzes. The igniter and demaster must be taken apart and stored separately.

Note. There is a Mk II edition of this mine with the ollowing alterations:

- The fuze is in one piece and is operated by a pressure pin. (See sketch).
- ii. The two pockets for the fuzes are inclined at an angle to allow for easier insertion.



AMERICAN MINE M2



ANTI-PERSONNEL MINE

AMERICAN MK 2

Size.-About 7 ins by 4 ins.

Weight.-About 8 to containing about 1 lb of explosive).

Safety device. dety pin in the igniter.

Description. This mine is similar in action to the British Shrapnel mine.

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

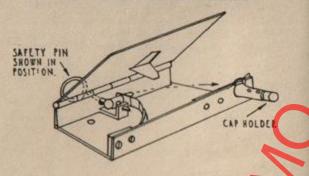
To neutralize

i. Place nail or piece of strong wire in the safety pin hole in the igniter.

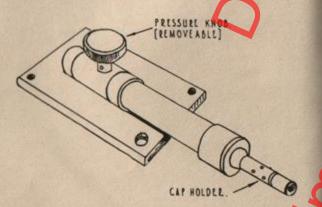
ii. Cut the trip wire or remove pressure knob (whichever applies).

iii. Unscrew the igniter.

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 when 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 fill 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

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

Note.—He 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 witch is operated by pressure on the knob which release boards, that etc., and is fired by a weight of about 30 lb.

To disarm

. Remove the knob.

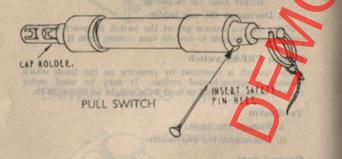
it Disconnect the cap holder.

General note

Both these switches may be used with safety or instantaneous

BRITISH IGNITERS.

CAP HOLDEL



L DELAY

BOOBY TRAP SWITCHES

British PULL switch

This switch is used with a trip wire, which releases the striker when pulled.

To disarm

- i. Insert safety pin or han or piece of strong wire in the hole.
- ii. Cut trip wire,
- iii. Disconnect the cap holder.

British L delay (lead break)

This igniter contains a spring-loaded striker, held back by a lead strip which stretches and eventually breaks under the action of the apping. Initially the striker is held in place by a safety pin.

There are various delays from 1 hour to 28 days. The igniter can be sitted direct to a detonator or safety suze (using an adaptor).

To disarro

i. It is so use trying to insert a safety pin as the striker will have moved.

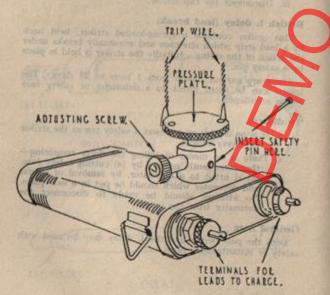
ADSUSTING SCREWA

There is no means of telling the delay remainingtherefore, gently remove by (a) cutting safety fuze, (b) if fitted to a detonator, by removal of igniter and detonator which should be put in a safe place. No attempt should be made to disconnect the detonator from the igniter.

General note

Both the pull switch and the L delay may be used with safety or instantaneous fuzes.

BRITISH PRESSURE/PULL SWITCH. ELECTRIC.



M HOBOOBY TRAP SWITCHES DIATMA

British PRESSURE/PULL Switch (Electric)

This switch contains a small battery and is designed to fire an electric detonator when either a trip wire is pulled or pressure is put on the place. The pressure required to actuate the switch can be varied. The lightest pressure required is about 5 lb.

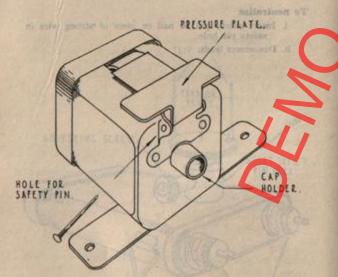
To neutralize

- i. Insert safety ain or nail or piece of strong wire in safety ain hole.
- ii. Disconnect leads.



AMERICAN RELEASE SWITCH MI.

Deiglet PHEARING PULL Section (Aberical Arterior)
The sector contains a prical Delvice and is designed to from an account of contains a first sector in pulled or presents to put on the plate. The present required fractions the switch can be raired. She lightest presents required in about 5 in.



THE BUILDINGS BY

BOOBY TRAP SWITCHES

American PULL switch, M1

This is essentially the same as the British pull switch, with one main modification the cap holder is threaded to fit the American hand grenade and a can also be fitted to a detonator in addition to safety or instruteneous fuze.

To disarm

- Insert safety pan or nail or piece of strong wire in safety par bolc.
- ii. Disconnect

American PRESS switch, M1

This is essentially the same as the British press switch. The cap holder is the same as that used in the American pull switch (decribed above). The pressure knob is held by a small spring and can NOT be removed.

To disarm

Disconnect.

(Taking core NOT to exert pressure on the knob.)

American RELEASE switch, M1

The action is essentially the same as the British release switch, but its appearance differs. The cap holder is the same is described for the American PULL switch. When armed a pressure of at least 2 lb is required to hold down the release plate, which is normally held in position by a safety pin. (See sketch.)

To disarm

Replace safety pin or nail and disconnect.



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 halt and safety screw in the fuze.

Description.—The pune 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 page 63, 65). These holes are situated :-

i. One opposite the handle in the side of the mine. ii. One in the bottom about half way between the handle and the centre of the mine.

Anti handing igniters when fitted are almost invariably pull igniters.

To neutralize

(a) IF HAND LIFTING IS ORDERED

I. SEARCH FOR AND NEUTRALIZE BOOBY TRAPS nich will almost certainly be present with this mine (see page 3).

ii Unscrew the main fuze.

- in. 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. Pash 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. i. Remove the detonators from the anti-handling holes.

IF PULLING CLEAR WITHOUT SEARCHING FOR BOOBY TRAPS IS ORDERED

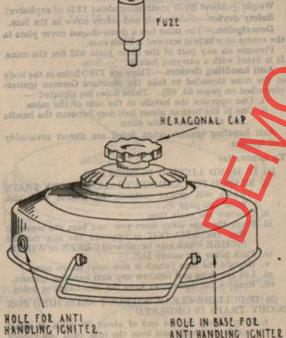
- i. Drop a loop on the end of about 50 yards of signal cable or strong cord over the fuze, or if you cannot do this, tie it to the handle. Do NOT move the mine or handle while doing this as it may be booby trapped.
- ii. Take cover at full length of the cable and pull the mine
- iii. If the mine has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

iv. Replace the fuze.

CERMAN TELLERATINE 35 INC. I)

See - Chrulat, about 13 in

GERMAN TELLERMINE 42 [No 2]





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 detonator screwed on to the bottom of it, SLIDES into the fuze box and works on the same principle as our own Mk V mine fuze, but has no safety

When in position a hexagonal cap screws over it into the cover

ii. The holes for anti-handling igniters are in a different position in relation to the handle. (See sketch.)

iii. The pressure plate is fluted and extends over only about half of the top of the mine.

To neutralize

(a) IF MAND LIFTING IS ORDERED

L SEARCH FOR 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

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.

Take cover at full length of the cable and pull the mine clear.

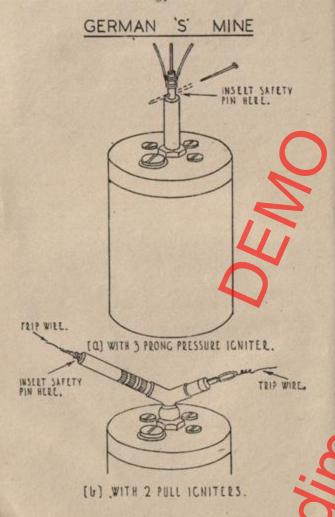
in, If the mine has not detonated, unscrew hexagonal cap. iv. Remove fuze and replace hexagonal cap.

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.



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 name 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 ignues (see page 63).

To neutralize

Insert nail into safety pin hole and unscrew igniter.

 ANOTHE WITHOD is using one or two standard pull igniters. An adaptor is used when pull igniters are fitted (see page 65).

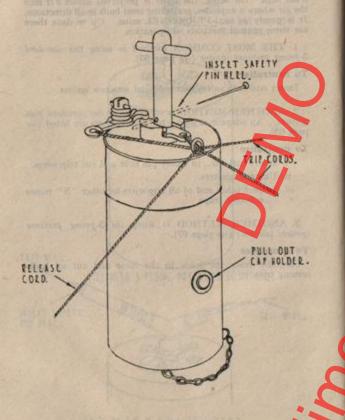
To neutralize

- i. Insert nail, etc., in safety pin hole and cut trip wires.
- ii. On crew igniters.
- iii. In port other end of all trip wires for other "S" mines or booby traps.
- 3. ANOTHER METHOD is using the 3-prong pressure inter (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

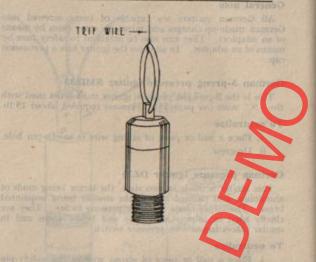
ITALIAN B4

This is a shrapnel mine and on discharge scatters scrap metal. It is usually fixed above the ground to a tree or post as it has no "jack-in-the-box" effect like the British and German types, but he been used buried. It is fired by pulling a trip wire or by cuttome a tension wire.

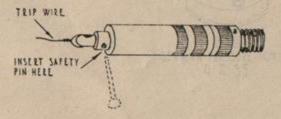
To neutralize

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

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, and may be found with "S" mines and in booby traps.

To neutralize

Cut wire carefully and unscrew igniter. N.B.—This igniter has no safety pin.

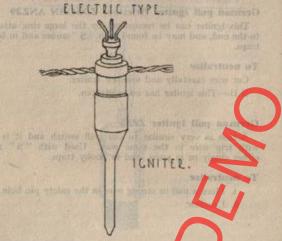
German pull igniter ZZ35

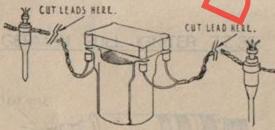
Action to very similar to our pull switch and it is used with trip who in the same way. Used with "S" mines either singly or in pairs, and in booby traps.

To neutralize

Diage a nail or strong wire in the safety pin hole.
 Usscrw.

GERMAN 3 PRONG PRESSURE IGNITER





S. MINE FITTED FOR USE WITH THIS IGNITER.

GERMAN IGNITERS

FOR MINES OR BOOBY TRAPS

German 3-prong pressure igniter (electric), EN Mi #40

Used with the "S" pine his is a variation of the standard 3-prong pressure ignited which fires an electric detonator in the mine. This set up a usually found with one mine operated by any of S business 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.