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EC 5520

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E IN C BOMB DISPOSAL TECHNICAL INSTRUCTIONS

1. Issued herewith are revised Bomb Disposal Technical Instructions. The revision was necessary because of extensive new information received.
2. Acknowledgment is made for information received from RAE and Allied Forces thus enabling the Manual to be kept up-to-date, and it is pointed out that the future value of these instructions will depend upon further new data received from the field.
3. Details of techniques, special appliances, etc contained herein will NOT be communicated to anyone not directly entitled to such information.
4. All previous E in C Bomb Disposal Technical Instructions are cancelled by the issue of this Manual, and will be destroyed by fire.

C.S. Steele
 (C.S. STEELE)
 Major General
 Engineer in Chief

11 Mar 44.

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FILING AND REFERENCE SYSTEM

EXAMPLE - B/2/76

Prefix capital letter - (B)

Refers to CHAPTER

See
TABLE OF
CONTENTS

First numeral - (2)

Refers to SECTION

Suffix numeral - (76)

Number allotted a specific BDTI

(Except in several instances only,
the original BDTI number has been
retained)

IMPORTANT

1. When issued, insert new BDTIs in Manual under correct CHAPTER and SECTION, and in appropriate sequence. In filing, disregard the suffix numeral.
2. In despatching messages, telegrams, etc., ALWAYS USE THE COMPLETE REFERENCE (as Example above).

I N D E X.

IN NUMERICAL SEQUENCE OF BDTIS

Ref. No.	Issued	Subject
A/1/1	20 Dec 43	General Instructions
B/5/2	20 Dec 43	Japanese Smoke Signal (Aircraft)-1 Kg
B/3/3	20 Dec 43	Japanese Anti-personnel HE Bomb, Type - 15 Kg
B/2/4	20 Dec 43	Japanese GP, HE Bomb, Type 94 - 50 Kg
B/2/5	20 Dec 43	Japanese GP, HE Bomb, Type 97 - 60 Kg
B/2/6	20 Dec 43	Japanese GP, HE Bomb, Type 98 - 60 Kg
B/2/7	20 Dec 43	Japanese GP, HE Bomb, Type 94 -100 Kg
B/2/8	20 Dec 43	Japanese GP, HE Bomb (Early type) - 250 Kg
B/4/9	20 Dec 43	Japanese Incendiary Bomb Type 97 - 50 Kg (Phos/Rubber pellets)
B/4/10	20 Dec 43	Japanese Incendiary Bomb Type 97 - 60 Kg (Electron fire-pots)
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B/5/13	20 Dec 43	Japanese Bomb Container - 60 Kg
B/5/14	20 Dec 43	Japanese Gas Bomb, Type 92 - 50 Kg
B/6/15	20 Dec 43	Japanese Bomb Fuze - A.3(A)
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B/6/18	20 Dec 43	Japanese Bomb Fuze - A.2(A)
B/7/19	20 Dec 43	Japanese Bomb Fuze - B.3(A)

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B/6/20	20 Dec 43	Japanese Bomb Fuze - A.4(A)
B/7/21	20 Dec 43	Japanese Bomb Fuze - B.4(A)
B/6/22	20 Dec 43	Japanese Bomb Fuze - A.1(A)
D/20/23	20 Dec 43	Disposal of Gas Bombs and Missiles
D/20/24	20 Dec 43	Treatment of Incendiary Agents
B/6/25	11 Mar 44	Japanese Bomb Fuze - A.1(G)
B/6/26	11 Mar 44	Japanese Bomb Fuze - B.3(B)
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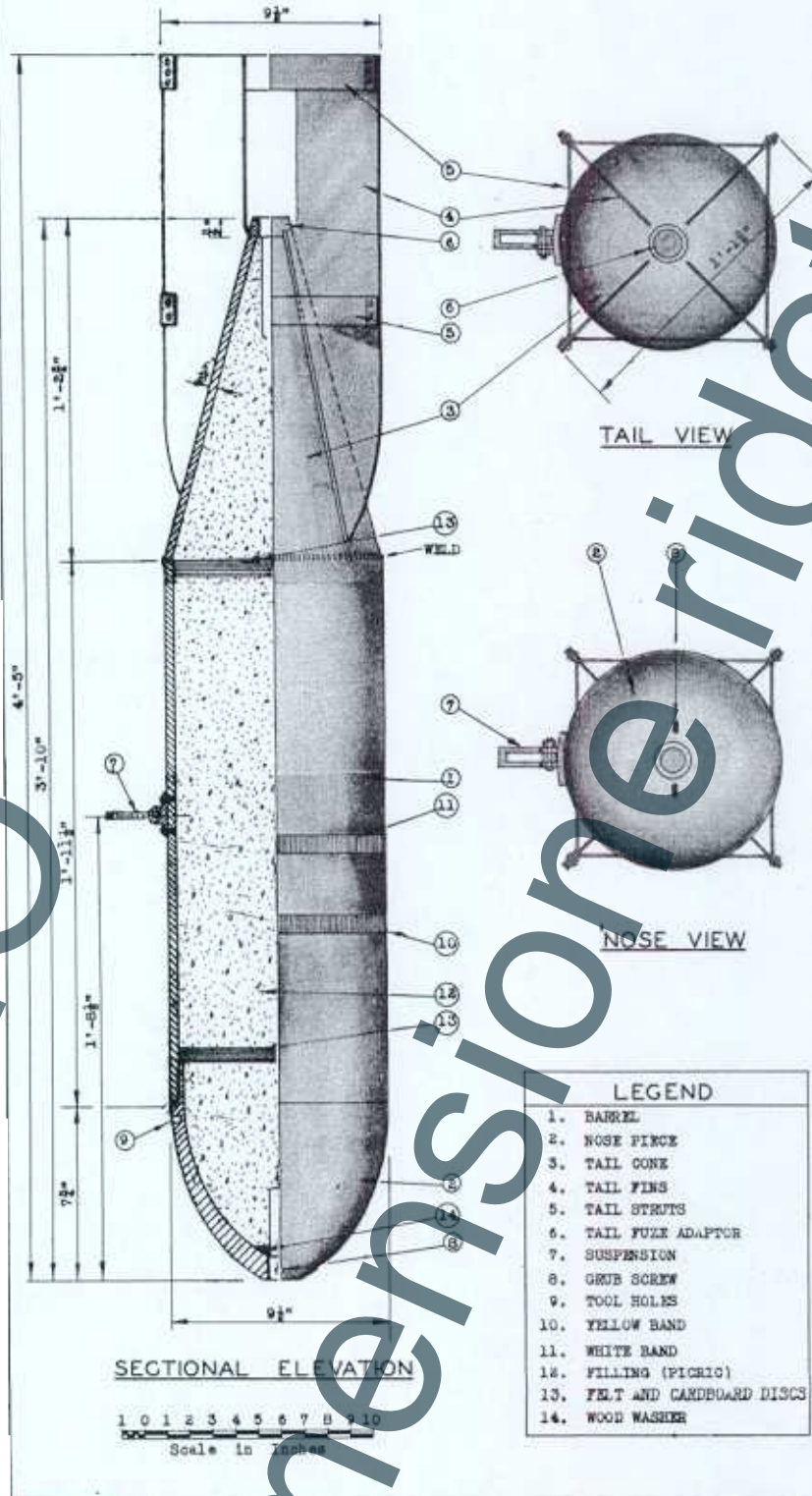
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JAPANESE
G.P. H.E. BOMB TYPE 94-100 Kg

USE - ARMY AIRFORCE

REFER E INC B.D.T.I. B/2/7



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JAPANESE G.P. H.E. BOMB, TYPE - 250 Kg

NOTE :- Temporarily referred to as "Early Type".

1. DETAILS.

Dimensions: Overall length 6'0"
Length of body 4'9 $\frac{3}{4}$ "
Diam of barrel 13 $\frac{3}{4}$ "
Thickness of barrel wall 5/16"
Width of tail fins 13 $\frac{3}{4}$ "

Weights : Weight of filling (HEXANITE and ANISOL) lbs
Total weight lbs
Charge/weight ratio %

Colour : GREY (painted)

Markings : GREEN band, about 6" wide, on nose tip
BLUE 1" band around barrel.
GREEN tail fin struts.

2. USE.

NAVY Airforce G.P. type bomb for use against land targets. Suitable for demolition purposes.

3. DESCRIPTION. (See diagram)

The bomb comprises 3 main structural portions:

(a) Barrel. A hollow cylinder formed of 5/16" thickness steel and of 13 $\frac{3}{4}$ " external diameter. The nose end is either -

- (i) threaded internally for screwing on to the nose piece, or
- (ii) a slip fit on the machined down portion of the nose piece, the two portions being secured with 1 row of 16 rivets and the joint continuous welded.

NOTE 1 :- In some bombs the 2 portions have been found screwed together as in (i) and with rivet holes sealed by spot welding.

At the rear end a plain coupling ring is fitted internally and secured with 1 row of 16 rivets. Suspension is normal Navy type eyebolt.

(b) Nose piece, of cast steel, is machined down for fitment to the barrel by method (a) (i) or (ii) above. The nose opening receives a fuze and grub screw for securing it.

(c) Tail unit. A cone constructed of sheet steel fits over the coupling ring and is secured thereto with 32 screws in 1 row. An adaptor is welded to the apex of the cone to take a tail fuze.

Each of the 4 tail fins is shaped on the internal edge to allow for the fuze arming vanes. The fins are braced at their extreme end with box-type struts.

4. FILLING.

The burster charge is HEXANITE and ANISOL, the nose portion being poured separately. The two fuze pockets are formed with thin cardboard liners.

5. FUZING.

Fuzes fitted may be selected from -

Nose - A.1(A), A.3(A), A.3(B) mechanical impact
C.2(A) chemical long delay

Tail - B.3(A) mechanical impact
C.1(A) chemical long delay

6. DISPOSAL. (Bomb filled with HEXANITE and ANISOL)

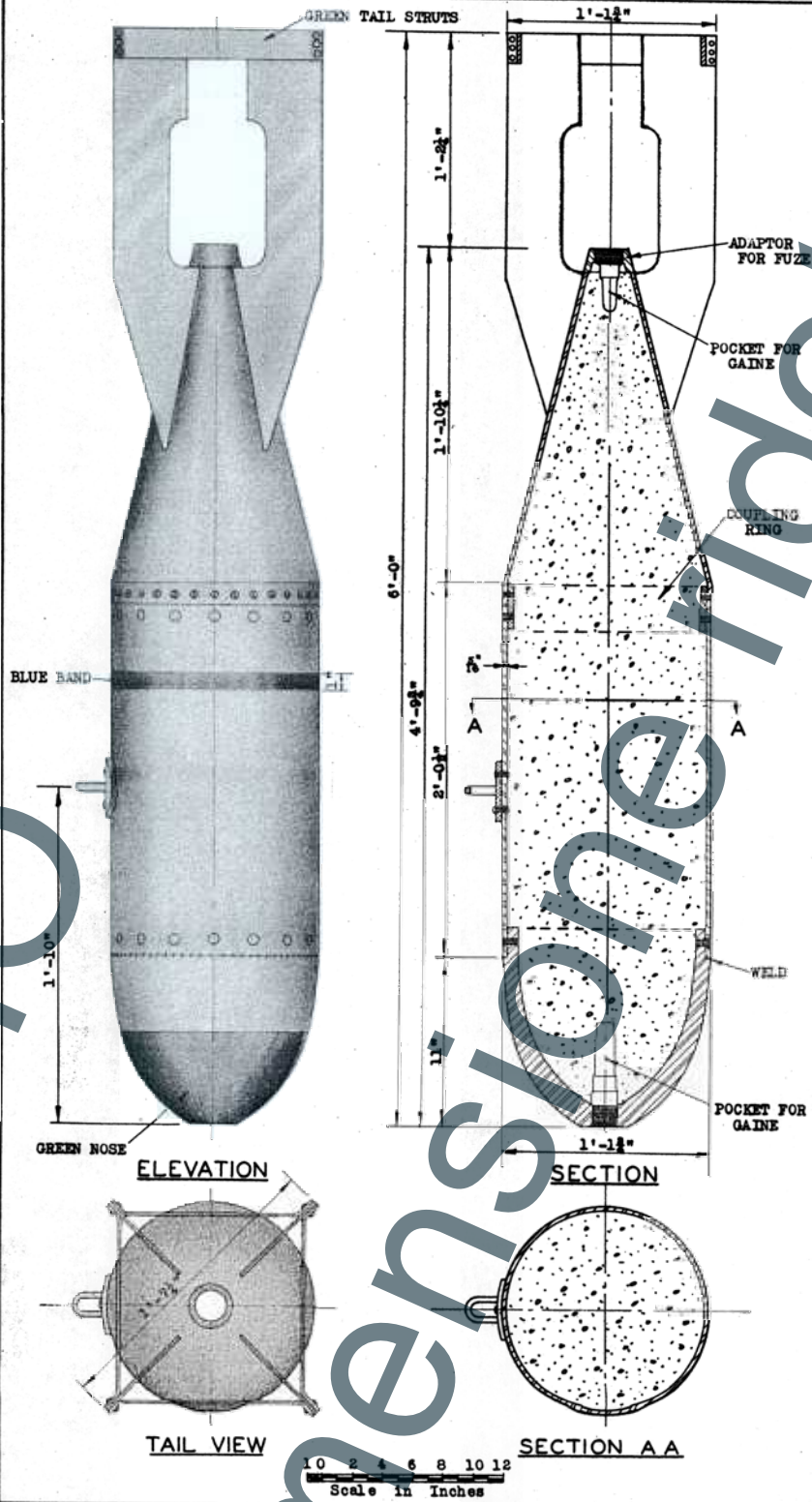
- (a) Fuze removal. See relevant BDTI for fuze/s found fitted.
- (b) Demolition. Normal methods
- (c) Trepanning. Permissible
- (d) Steaming-out. Permissible, provided a chemical long delay type fuze is NOT fitted
- (e) Burning-out. Permissible.

3

JAPANESE
G.P. H.E. BOMB TYPE - 250 Kg.
(*EARLY TYPE*)

USE - NAVY AIRFORCE

REFER E.M.C. B.D.T.I. B/2/8



JAPANESE G.P. H.E. BOMB, TYPE 98 - 250 Kg

1.

Originally referred to as "Later Type".

2. DETAILS.

Dimensions: Overall length.. 6'0"
Length of body.. 4'10½"
Diam of barrel.. 12"
Thickness of barrel wall.. ½"
Width of tail fins. 12"

Weights : Burster charge.. 183½ lbs
Total weight. lbs
Charge/weight ratio 36% approx

Colour : GREY (painted)

Markings : Vary as following examples -

EXAMPLE A. (Burster charge - HEXANITE and ANISOL).
GREEN band 4"-6" wide on nose tip
RED lines (2) diametrically opposite and full
length of body
GREEN tail fin struts.

EXAMPLE B. (Burster charge -)
GREEN band 6" wide on nose tip
RED lines (2) as above

EXAMPLE C. (Burster charge -)
RED lines (2) as above. No other colour markings

3.

NAVY Airforce GP type bomb for land targets.
Also suitable for use against shipping (unarmoured).

4. DESCRIPTION. (See diagram)

The bomb consists of 3 main structural portions :-

(a) Barrel. A drawn steel tube of ½" thickness and of 12" external diameter. A shaped coupling ring is fitted internally at the rear end and is secured with set screws in 2 rows of 20 each. Suspension is normal Navy type eyebolt.

(b) Nose piece, of cast steel, is machined down to receive the barrel. The joint between the 2 portions is continuous welded. The nose opening receives a fuze and a grub screw to secure it.

NOTE 1 :- In some bombs the barrel and nose piece may be secured with rivets. When riveting is omitted, the holes are sealed with spot welds.

(c) Tail unit. A cone constructed of steel fits over the coupling ring and is welded thereto (see NOTE 2). An adaptor is welded to the apex of the cone to receive a tail fuze.

Each of the 4 tail fins is shaped on the internal edge to allow for the fuze arming vanes. Box-type struts are fitted at their extreme end.

NOTE 2 :- In some bombs the cone may be secured to the coupling ring with 18 rivets in one row. When rivetting is omitted the holes are sealed with spot welds.

5. FILLING.

The burster charge is HEXANITE and ANISOL, the nose portion being poured separately. The two fuze cavities are formed with thin cardboard liners.

A booster of Hexanite and Anisol in compressed powder form and contained in a waxed paper cylinder 1'6½" long by 1½" diameter is sometimes inserted in the tail cone. A pocket is formed at one end to receive a Navy type standard gain.

6. FUZING.

Fuzes fitted may be selected from -

Nose - A.1(A)	A.3(A), A.3(B) mechanical impact
C.2(A)	chemical long delay
Tail - B.3(A)	mechanical impact
C.1(A)	chemical long delay

7. DISPCAL. (Bomb filled with HEXANITE and ANISOL)

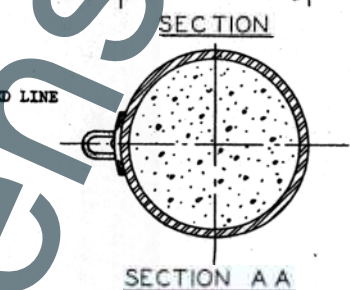
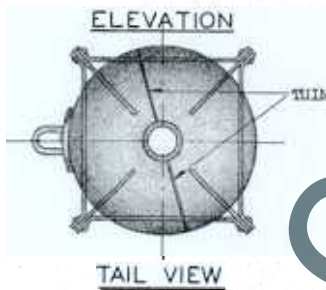
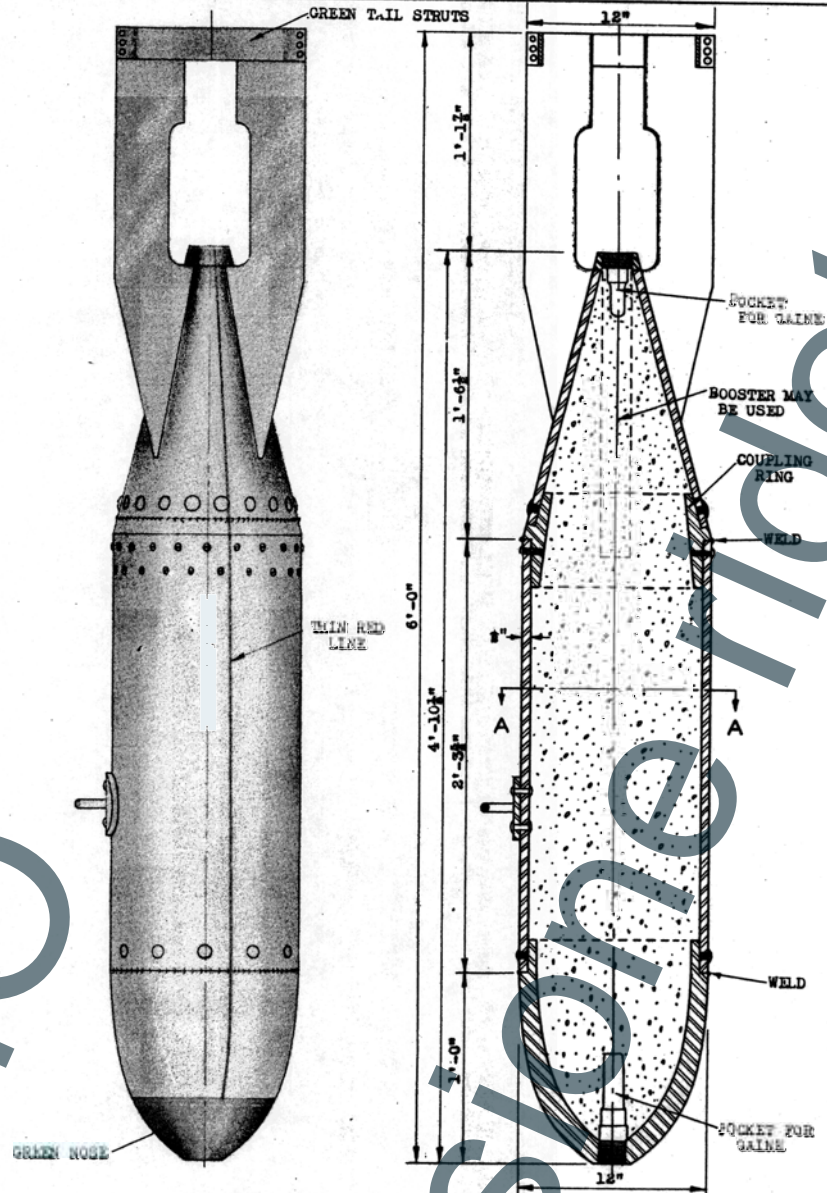
- (a) Fuze removal. See relevant BDTI for fuze/s found fitted
- (b) Demolition. Normal methods
- (c) Trepanning. Permissible, BUT a chemical long delay fuze must first be immunized if fitted.
- (d) Steaming-out.
- (e) Burning-out.

NOTES

JAPANESE
G.P. H.E. BOMB TYPE 98 - 250 Kg.

USE - NAVY AIRFORCE

REFER E IN C B.D.T.I. B/2/52



1 2 3 4 5 6 8 10 12
Scale: 1/4" = 1" Inches

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JAPANESE S.A.P., H.E. BOMB, TYPE 99 - 250 Kg

1. DETAILS.

Dimensions: Overall length 5'8 $\frac{1}{4}$ "
Length of body 3'3 $\frac{3}{4}$ "
Diameter of body 12"
Min. thickness of body wall . $\frac{7}{8}$ "
Width of tail fins 13 $\frac{1}{2}$ "

Weights : Total weight 546 lbs
Weight of filling (ANISOL) .. 133 lbs
Charge/weight ratio 24% approx.

Colour : GREY (painted)

Markings : (Bomb filled with ANISOL)-
GREEN band 6" wide on nose
RED LINES (2) diametrically opposite and
full length of bomb casing.

2. USE.

NAVY Airforce S.A.P. type bomb. Suitable targets - lightly armoured ships and shore installations (medium constructions).

3. DESCRIPTION. (See diagram)

The bomb comprises 3 main structural portions:-

- (a) Body. The barrel and nose are a single steel casting, and machined externally and internally. Provision is made in the nose for a fuze and a grub screw to secure it. Suspension is normal Navy type eyebolt.
- (b) Base plate. A steel base plate screws into the rear end of the body and is locked thereto with a grub screw. The top flange of the plate is machine slotted for an assembly tool. Positioned centrally is a threaded hole to take a fuze. A conical-shaped booster container of steel screws on to a flange formed below this hole
- (c) Tail unit. The tail cone, made of sheet steel, is secured to the top flange of the base plate with 6 screws. Hinged doors are fitted to the 3 access openings. A steel adaptor is welded to the apex of the cone to receive the tail arming assembly of the tail fuze.

Welded to the cone are 4 tail fins which are shaped on the internal edge to allow for the fuze arming vanes. Cylinder-type bracing is fitted at the extreme end of the fins.

NOTE 1 :- In UXBs, the tail cone will often separate from the body on penetration.

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4. FILLING.

- (a) The burster charge of ANISOL is in the form of about 7 preformed blocks of the pressed powdered explosive, each block covered with a layer of paper, a thin layer of paraffin wax and a layer of cloth. The blocks are embedded in paraffin wax in the bomb case. The rear block is perforated to take the booster container and its diameter is reduced by $1\frac{3}{4}$ " so as to fit into a cylinder made of a composition material acting as a packing between it and the flange on the base plate. The recesses on the underside of the base plate are filled with a similar material. Between this and the filling are 2 wide cardboard discs.
- (b) The booster explosive is 330 grams of pressed powdered PICRIC ACID wrapped in waxed paper. A pocket is formed to take a Navy type standard gaine. A perforated cardboard washer fits over the top of the filling.

5. FUZING.

Tail fuze B.2(A) is normal fuzing. Nose fuze A.1(C) would be added if dual fuzing is desired.

6. DISPOSAL. (Bomb filled and fuzed as above).(a) Fuze removal

- (i) Fuze A.1(C) - see BDTI B/6/25
(ii) Fuze B.2(A) - see BDTI B/7/67

(b) Demolition: Normal methods(c) Trepanning: Permissible, but not necessary if base plate is removable.(d) Steaming-out: Permissible, but not necessary if base plate is removable and blocks can be eased out (see BDTI D/20/117, para 3)

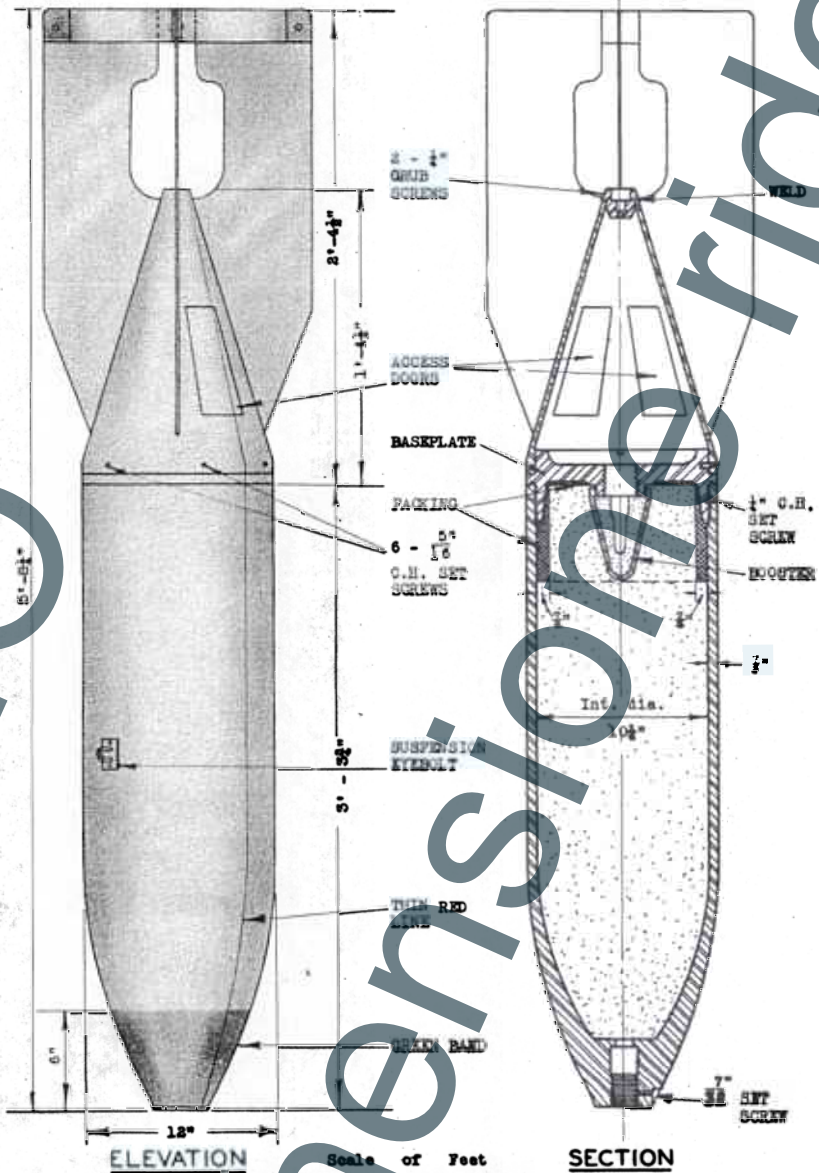
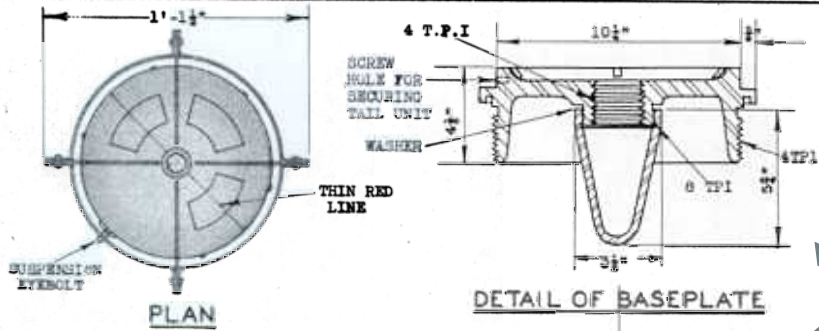
If steaming-out is resorted to, an improvised hand attachment should be used (see BDTI D/20/31, PART C)

(e) Burning-out: NOT permissible.NOTES

JAPANESE S.A.P. H.E. BOMB, TYPE 99 - 250 KG.

USE - NAVY AIRFORCE

REFER E. IN C. BDTI B/2/65



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JAPANESE A.P., H.E. BOMB - 800 Kg

1. JAPANESE DESIGNATION.

2. DETAILS.

Dimensions: Length (less tail unit) 48.3"
Diameter (maximum) 16.1"
Wall thickness (Tapers from 4" near the
(solid nose end to 2" at
the tail end)

Weights : Filled (less tail unit) 746 Kg
Burster charge 30 Kg
Charge/weight ratio 4%

Colour :

Markings :

3. USE.

NAVY Airforce special type A.P. bomb (believed to be a converted projectile) for use where a high degree of penetration is required, e.g. heavy fortifications and heavy armoured ships.

4. DESCRIPTION. (See diagram)

The tail unit was missing from the specimen bomb.

The remainder of the bomb, i.e. body and nose, is of ONE PIECE construction of forged machined steel, heavily constructed at the nose, and threaded internally at the base to take a base plate. A suspension lug is belted to the body at the point of balance.

8 indentations are cut in the nose, presumably for the fitment of a ballistic cap when used as a projectile.

The base plate is holed and threaded to receive twin fuzes.

5. FILLING.

Burster charge is cast ANISOL with an aluminium plug as a cushion in the forward end.

6. FUZING.

Twin fuzes of type B.2(B) are fitted in the baseplate.

7. DISPOSAL.

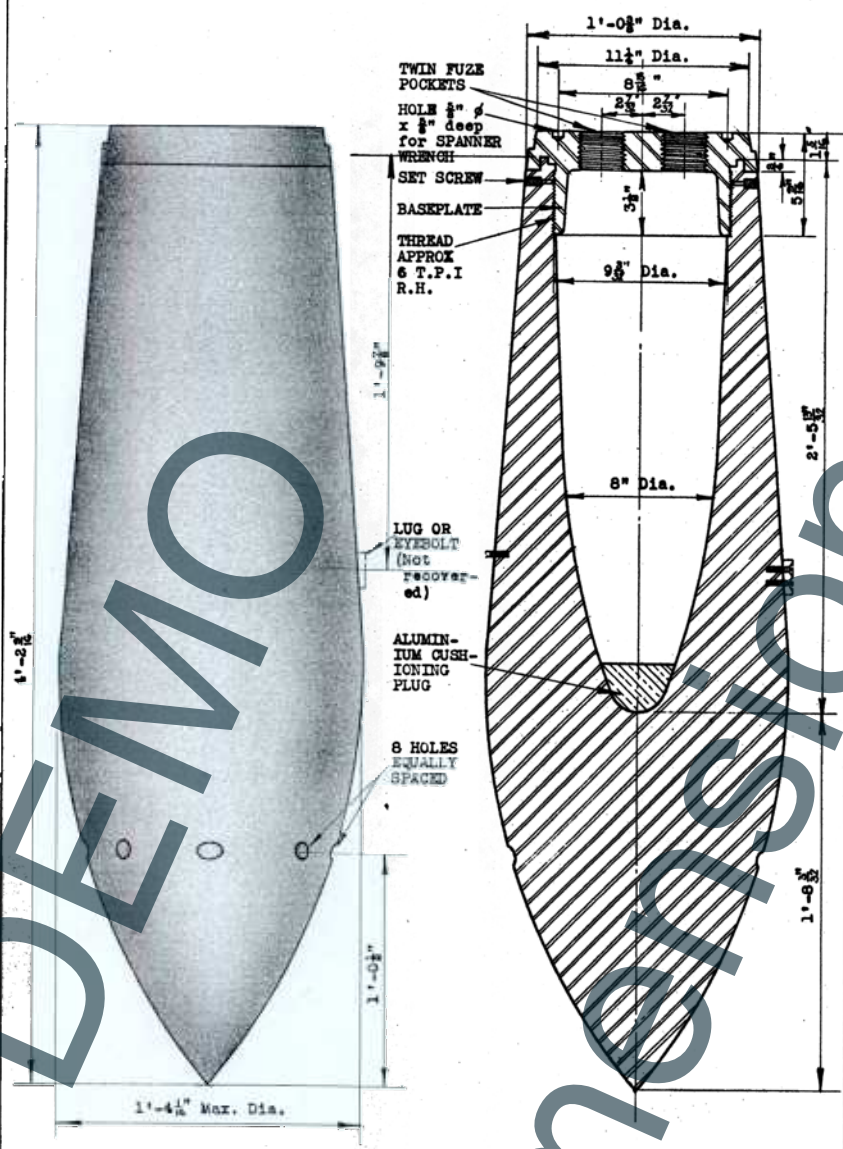
(a) Fuze removal. See BDTI B/7/77

(b) Steaming-out. Permissible (after removal of baseplate)

JAPANESE A.P. H.E. BOMB — 800 Kg.

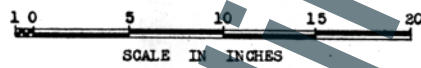
USE — NAVY AIRFORCE

REFER E IN C BDTI B/2/76



ELEVATION

SECTION



DEMO

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JAPANESE, ANTI-PERSONNEL H.E. BOMB, TYPE - 15 Kg

1. DETAILS.

Dimensions: Overall length 2'1 $\frac{3}{8}$ "
Length of body 1'8 $\frac{1}{4}$ "
Diameter of barrel 3 $\frac{1}{8}$ "
Thickness of barrel wall . 17/32"
Width of tail fins
Diameter over tail fins . . 5 $\frac{1}{2}$ "

Weights : Weight empty 26 lbs
Burster charge (PICRIC
ACID) 7 lbs approx
Total weight 33 lbs "
Charge/weight ratio 21.2% "

Colour : BLACK (painted)

Markings : RED band, $\frac{1}{2}$ " wide, on nose
YELLOW and WHITE bands, each $\frac{3}{4}$ " wide,
around barrel forward of suspension
"15K" stencilled with white paint on
barrel.

2. USE.

ARMY Airforce Anti-personnel (Fragmentation)
type bomb.

3. DESCRIPTION. (See diagram)

The bomb comprises 3 main structural portions:

(a) Barrel. This consists of an inner and an outer case. The inner case is a tube of 5/32" thickness steel, threaded externally for a length of $\frac{3}{4}$ " at one end to screw into the nose piece, and at the other end for a length of 9/16" to take a threaded shrapnel ring. The threaded parts are retained by grub screws as shown.

The outer case consists of 26 shrapnel rings, 25 of which are $\frac{3}{8}$ " thick and approx $\frac{3}{8}$ " wide, whilst the remaining ring is 1-3/16" wide for fitment of normal Army type horizontal swinging suspension. The shrapnel rings are not easily noticeable until the painted surface is scraped.

(b) Nose piece, of uniform thickness steel, is threaded for screwing on to the barrel inner casing. The nose opening receives a fuze and a grub screw to secure it.

(c) Tail unit. The tail cone, constructed of sheet steel, is welded to the end shrapnel ring. Four fins are rivetted to the cone, and to each other on the internal edges, and are braced at their extremity with narrow box-type struts.

Alternative vertical suspension is provided by a rigid fitment at the end of the tail fins.

4. FILLING.

The burster charge is cast PICRIC ACID (Lyddite). The nose piece filling is cast separately and 4 cardboard washers are inserted in the gap between the 2 fillings.

5. FUZING.

Nose fuze A.2(B) only is employed.

6. DISPOSAL. (Bomb filled and fuzed as above)

- (a) Fuze removal. For fuze A.2(B) see BDTI B/6/73
- (b) Demolition. Normal methods
- (c) Trepanning. Not applicable to this size bomb
- (d) Steaming-out. Simplest method is to apply a steam jet through nose fuze opening
- (e) Burning-out. NOT permissible.

NOTES

DEMO

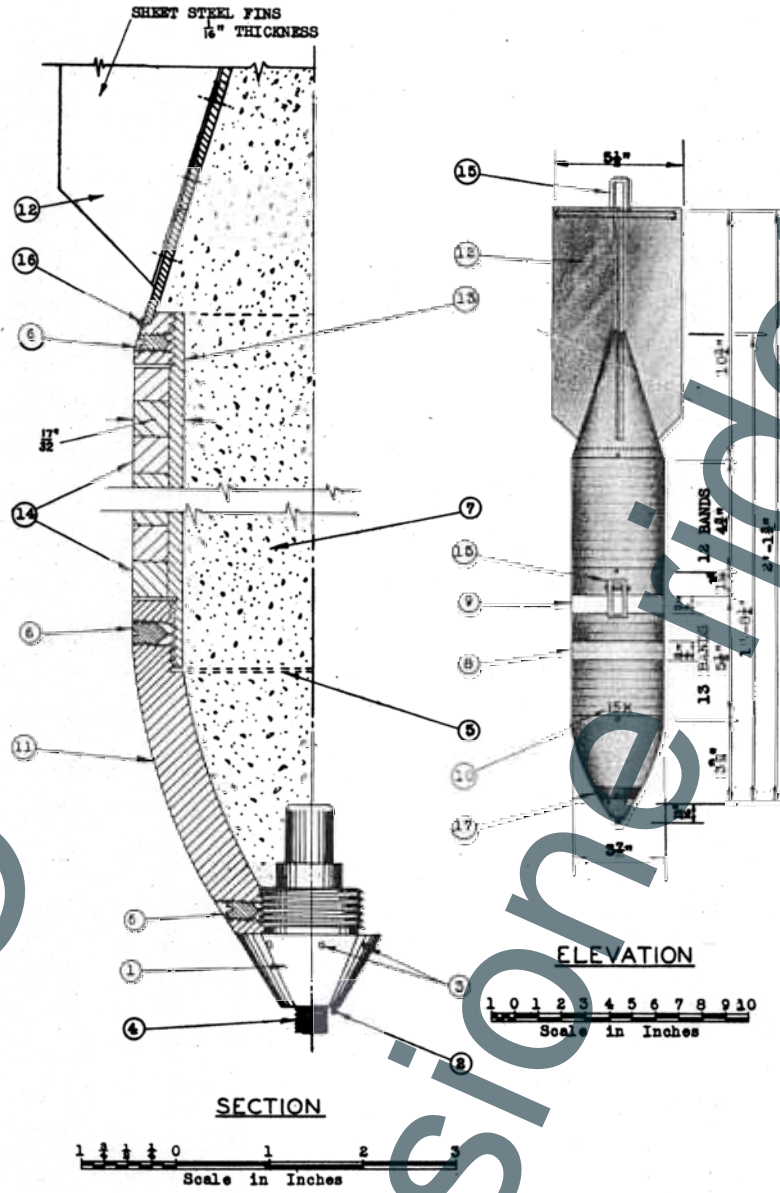
dimensione ridotta

3

JAPANESE ANTI-PERSONNEL H.E. BOMB TYPE - 15 Kg.

USE - ARMY AIRFORCE

REFER E IN C B.D.T.I. B/3/3



LEGEND	
1. FUZE - A. 2(B)	10. MARKING
2. ANTI-BINDING PIN	11. NOSE PIECE
3. TOOL HOLES	12. TAIL FINS
4. STRIKER SPINDLE	13. INNER CASING
5. CARDBOARD WASHERS	14. SHRAPNEL RINGS
6. GRUB SCREWS	15. SUSPENSION
7. PICRIC ACID	16. WELDED JOINT
8. YELLOW BAND	17. RED BAND
9. WHITE BAND	

STETHOSCOPE ELECTRICAL
DESIGN IVB

REFER B.D.T.I. E/23/104

SHEET No 1

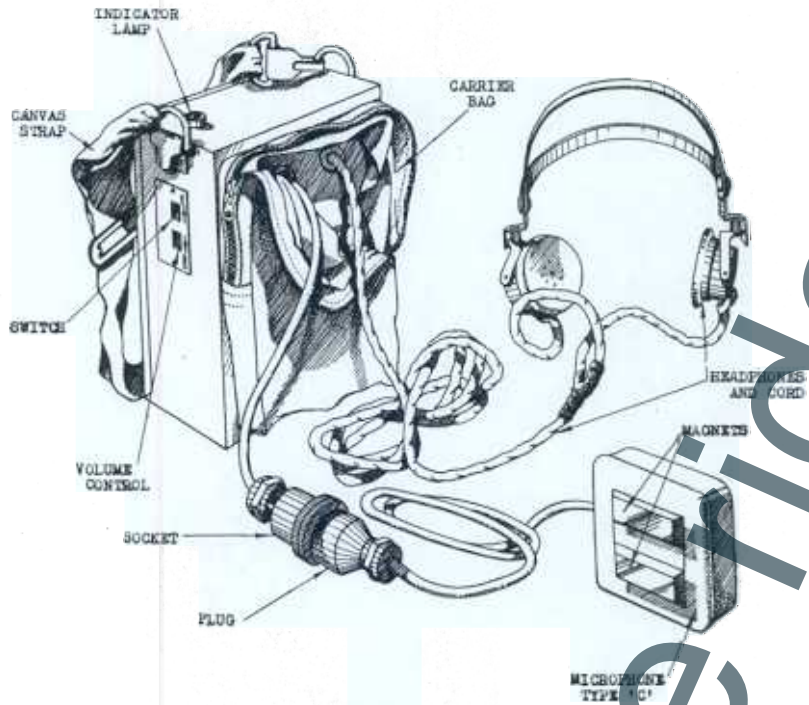


FIG 1



MICROPHONE TYPE "C"
ATTACHED TO PROBE
IN METALLIC CONTACT
WITH BOMB

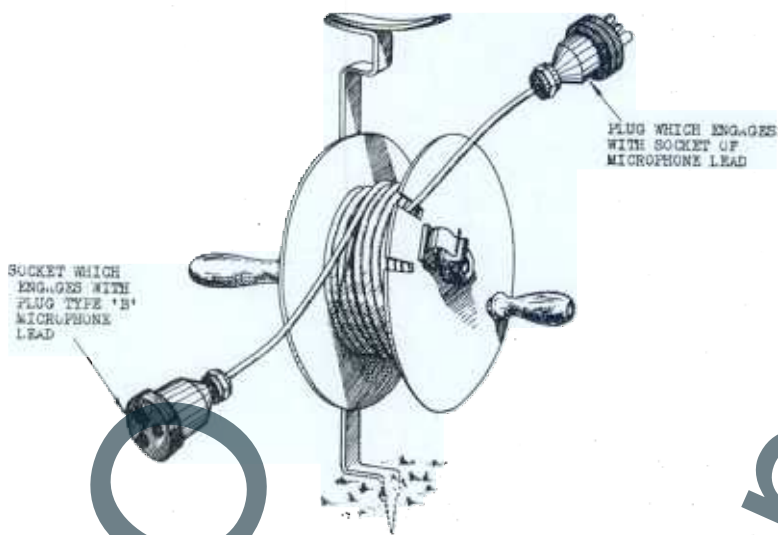
METHOD OF USE IN SHAFT

FIG 2

STETHOSCOPE ELECTRICAL
DESIGN IV B

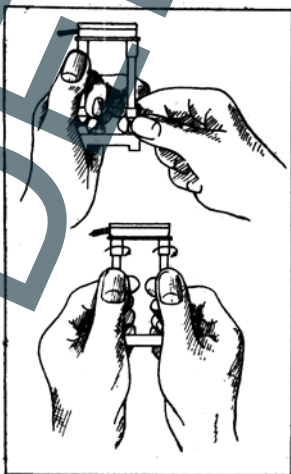
REFER B.D.T.I. E/23/104

SHEET N° 2



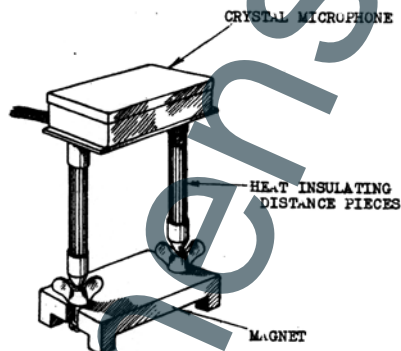
CABLE DRUM

FIG 3



METHOD OF ASSEMBLING

FIG. 4



STERILISING MICROPHONE TYPE 'B'

FIG 5