1209046 AC2. CLIFFT. A.V. (BOOK 2)

2 COURSE 1 SQUAD.

HUT. 2.36

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3RD. 3·41. P.M. Pyrotechnics

Signal Carbon Cartridge

TYPES. SINGLE STAR. 3 RED. YELLOW GREEN

CHANGE " 2 YELLOW-RED. YELLOW-GREEN

DOUBLE " 6 RED YELLOW. GREEN. △
R-R. GG. YY GY. GR. YR. △

SMOKE PUFF WHITE + BROWN.

ILLUMINATING.

Action. When the precussion cap is struck the flash ignits the powder charge..

120lb SMOKE BOMB. (2 IN S.B.C) 864 FUZE.

864 FUZE LIKE SMALL 38 FUZE (FOR 30lb MK I MED)

FUZING. 9 x 1 oz. 1 DRAM GUN POWDER CHARGES IN POCKET

SCREW IN FUZE. - 20 MINS. BURNING. SCREEN 250 yds.

T.V. 900 FT. P. SEC. NOT DROP ON WATER BELOW 1000 FT.

IF HARD TARGET BELOW 300 FT. ON IMPACK BOMB

BLOWS BACK UP FROM 20 FT TO 500 FT. (WITH CHARGE)




MARINE MARKER MK II. 19 lbs. (BOTTOM RED TOP. YELLOW)

SMOKE + FLAME FOR 2 HRS. (FOR MARKING SEA TARGET) ON L·S·CARRIER USE No 19 SUB. BAND.

FILLED WITH CALCIUM PHOSPHIDE. - MAGNESIUM·ALUMINIUM PHOSPHIDE. - POTASSIUM·BISULPHATE.

+ SODIUM NITRITE.

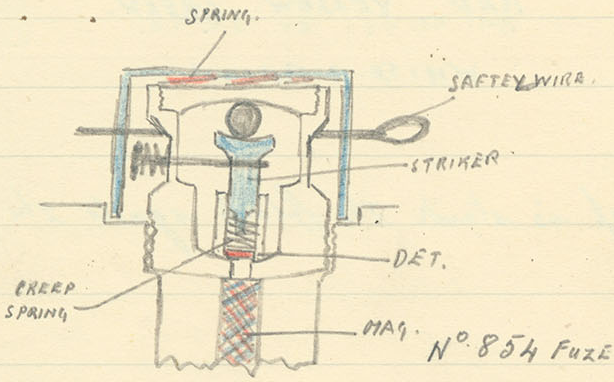
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## 100 lb SMOKE BOMB

### 854 MK 1 FUZE. GROUP. XI

100 lb SMOKE BOMB SAME SHAPE & SIZE AS 65 L.C BOMB.

COLOUR GREEN (TIN). SMOKE WHITE.



N°. 854 FUZE.

---

SMOKE GENERATORS.

N°. 5 MKS. I + II. ROUND TIN - MATCH IGNITER. A TO GROUND - G. TO AIR. (GROUP. XI) 6-8 MINS. WHITE.

N°6 . MK II. (WITH FLAME TRAP.) AIR TO GROUND. (ORANGE SMOKE) OVER 200 FT. 2½ MINS.

N°. 11 (WITH CAMERA OBSCURA) 3 ONLY ON L.S. CARRIER. (JET. BEFORE LANDING.) (ELECT.) 55 SECS. ORANGE

N° 13. (MOTOR BOATS) (ELECT.) CAP + SCREW BOTTOM. 8 MINS. WHITE.

N° 18 (LARGE ROUND TIN.) MOCK WARFARE (PUT ON GAS MASK) 4-6 MINS. WHITE.

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# Smoke Generators AP 1661 (E)

Nos. 5 Mk. I. No 6 Mks. I II III. No 11 Mks. I II. No. 15. Mks. I.

1. Remove lid. 2. tear of match compo protector. 3 strick a match across the igniting compo. burns appox. 8 mins. Precautions. generators give of great heat when burning, so must not be use in or from A/c No. 6. Mks. I II III its primary object is to indicate wind speed and direction or in cases of forced landing on drome. smoke emitted for about 2½ mins. is visible up to 4,000 Ft.. Preperation before placing in A/c. the igniter cap should be removed and igniter fitted, the safety pin is removed only just before dropping over board. Action on impact the striker pellett after breaking shearing wire strikes the cap of the cartridge base and fires it. The flash produced ignites priming match which in turn ignites the igniter and smoke compo. The zinc disc is pushed up and the smoke ~~em~~ is emitted. Precautions it will not function on soft ground if dropped below 200 Ft. remove safety pin if before use, and drop over board at once. Generators may be left in A/c if igniter is removed. Safety pins must be tested after case of with-drawal. Mk II may be stored in A/c.

No. 11 Mks. I II used as an aid to show position of A/c on practic bombing.

Method of use. The generator is a cylindrical turned plate container, or cannister appox. 9" long. 5" diameter, with a lid, its contains a Red smoke compo, the means of ignition is electrical (ingiter).

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Method of use it is carried on a E.M./L.S carrier which has been modified by fitting a additional junction box, and rearrangement of the carriers wiring. The carrier ch takes 3 generators, the first 3 selector switches are used, the 4 is used for Jettisoning. NOTE. A great heat is generated when functioning so A/c must not land with these on, so before landing jettison all generators, (on waste land or sea) fired containers remain hot off 6 hours. Mk. II is similar in design and method but smoke compo is cheaper and burns for 55 Secs. compared with the 30 secs of the Mk. I. No. 15. Mk. I. This generator is intended to be used on motor-boats for signaling to A/c, and can be used in place of No. 5; Whenever electrical ignition is required. Description it consists of a tinned plate canister, containing smoke compo. ignited by an electrical igniter, a lid is provided to protect terminals in transit; it produces White smoke for 8 mins.

A/C. Reconnaissance flare.

4·5" 5·5" Mks. I II + Mk. I. The 4·5 is used for land reco. the 5·5 for sea. Mk. I. 4·5 burns for 3¼ mins

Mk. II 4·5 Mk V. " " 3 to 4 mins. 750,000 C.P.

Mk. I · 5·5 " " 3¼ " 4¼ mins.

11ft. chute on 4·5 Reco flare, Consists of container, No 28 Type, ~~igniter~~ ejector charge, handle compo. 3 wood distance pieces, suspension rope dome, . Can be fitted to L/S or Mk. 1+2 carriers, always use langard adaptor.

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MK. VI 4 MINS. DELAY.
MK. V. 2 MIN. DELAY.

Fuze. N° 30 for 4·5 Recog. Flare Mk. I. MK IV. 42 OR 848 FUZE. (860 FUZE).

Fuzing test examine seal, then remove fuze, see safety pin is in and fuze set to safe, examine threads and screw locking ring tight to fuze body. Remove nose plug from flare, place leather washer on fuze threads, put thin coat of lutin on, then place threads through hole in lanyard adaptor and screw into flare, ensuring all are in line with lug, holding with key N°123 tighten locking ring with N°89. Put lanyard through front hole of adaptor, through firing plug and up through rear hole, load onto carrier and fix cord to carrier or quick-release pin on N°1 A. attachment. (Fuze delay 3½ secs to 17 secs) set delay to time required then put closing plug into safety pin hole. (give the safety pin to bomb-aimer) now A/c is ready for flight.

Action of Fuze:- on leaving the A/c the lanyard pulls the firing plug and two bearings this compress the spring also pulling back the striker so far that the bearings fly free thus allowing the spring to push the striker onto the detonator. The flash from the detonator passes up the channel to lower time ring, also blowing out gas escape hole disc, the lower ring burns round in a clockwise direction until reaching the pellet which ignites the upper ring, ~~the~~ burning in an anticlockwise direction, passing the flash across to the powder pellets in the spigot where it passes though the offset channel thus initiating the magazine, the flash from this passes through fuze bush and ignites the ejection charge which pushes off closing dome, the candle and parachute at the same time igniting the candle. The fuze and case falls to earth.

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Fuze N° 28 nose of 5·5" Flare (Recd).

Action on leaving the A/c the firing rod is withdrawn allowing the spring loaded detonator to strike against the striker. The flash from the detonator ignites the powder pellet which blows out the gas escape disc and igniting the upper timing ring which burns in an anti-clock wise direction; then igniting the powder pellet which blows out lower gas-disc and ignites the ring which burns clockwise direction, then igniting the magazine channel, while this taking place the star vanes have rotated drawing the valve of its seating so the flash can pass to the magazine, (pellet igniting the magazine).

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## Smoke Curtain Apparatus MK. III

S.2.D Mixture. N°2 and N°3 Electric Detonators. N°2. RED + WHITE. N°3 two WHITE

Preperation for use :- Remove transit covers, place N°2 detonator under clip on bakelite disc in the inlet valve, attach baffle cone and inlet cowl, and secure red and white lead of E. Det. to terminals at rear of cowl. Secure N°3 E. Det. to bakelite disc with 3 strands of tape at emission tube neck, then attach emission tube, attach the two white leads from N°3 Det to the leads from junction box. Testing be-fore installation remove junction box cover and all fuges except one, attach A/c supply leads to tester fuge and move handle, needle should flicker the circuit is not broken. Before putting in fuges they should be tested with tester fuge and 30 ft of cable. Position of crutches and shoes, front inner position rear 'B' Type crutch in 'A' position. To test on A/c put down selector switch and insert one fuge at a time, the ignition lamp should light. Action. on pressing firing switch the current passes through junction box, then to each Det; which fires and breaks bakelite disc allowing mixture (S.2.D.) to be emitted and air to flow in. 250lb MK. III is similar except the inlet cowl is at end of container also a tail fairing and a small emission tube, no saddle plate, crutches front 'outer' rear. 'B' Typ. A Position, 250lb always carried externally. When handling S. C Apparatus always use N°5 protective clothing, also when cleaning out with warm water. Before storing coat threads with mineral jelly.

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## Apparatus. A.L No. 1. (ANTI LANDING.)

Stores required operating pole 10', steel disc, pin spanner + screwdriver (combined) cramming tool (can be used as spanner). At the station draw. for priming 4¾ oz. Gelignite Plastic, Detonator Commercial N°8. 12 bore cartridge head, rectifier, and I.R. washers. :- Consists of Naval Mine B type. 'C' for obstruction of Satellite and reflief landing grounds. The frame work and operating pole 10' fitted to mine, and when pole is deflected beyond 15° the mine operates, it will stand a 62 m.p.h. wind. Frame-work consists of a cage, safety strap + catch, preventer plates, spigot and operating plate. The mine consists of. 20 lbs. Amatol. Assembly at Depot ensure that spring functions between 90 + 100 lbs load, lash safety rod in IN position with cord, fix steel disc with special adhesive, and fitting operating frame. 1/16" clearence between operating plate and steel disc. Before dispatching mine for service ensure that (1) preventer plates are closed. (2) the safety rod in and safety strap closed and hook in place, (3) remove cord. (4) Put empty primer unit back in place.

Priming Instructions. ensure that preventer plates are closed and safety rod in with safety strap shut and latched. Place mine on its side unscrew lung-nut and remove primer canister; remove inner-nut and insert 4¾ oz. plastic Gelignite with wrapping, replace inner-nut, outter lung-nut; at the other end remove retaining ring and copper disc, then reamer hole in gelignite for N°8 commercial detonator. Place det.

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and 12 bore cartridge cap or head, next I.R. washer, copper disc and finally screw in retaining ring; reinsert primer canister into primer guide tube and screw-up lung-nut.

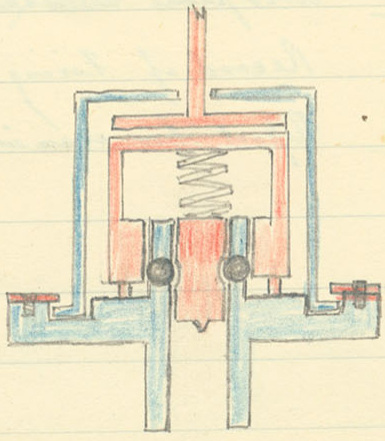
Handling Instructions for transport. ensure preventor plates and safety rod are in correct position, carry by handles provided, poles to be transported seperatley: Laying out place mine on spot needed, open legs to fullest extent, insert pole and secure with pin and wire, open safety strap, pull safety rod to OUT position, open preventor plates.

Collecting: close preventor plates, push in safety rod to IN position secure with safety strap and latch, take of wire and pin remove pole 10ft., close legs and carry away by handles provided.

N°1 MK.II (N°41. PISTOL.) KEY 172.

20lbs AMATOL (BUILT IN EXPLODER. C.E.) OPERATES IN WIND OVER 62 M.P.H. - POLE MUST MOVE MORE THAN 15°/. BEFORE WORKING. - 90 -100 WORKING SPRING.

N°41 PISTOL. WITH. N°43 DET. (KEY 172.)



N°.41. A2. MINE PISTOL.

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12/3/41.

## Inspection Forms.

Form 87. Flame floats + similar stores, inspect annually except when the stores are deteriorated and have been examined by C.C.S.

Form. 87 Empty bombs, bomb pistols + Pet holders inspected every 3 years

Form 1009 Bomb components, fuzes, primers + Miscellaneous explosives except gunpowder. (in triplicate).

Form. 1010 Pyrotechnics except signal cartridges.

Form 1011 ~~A.S.S~~ S.A.A + signal cartridges (not incendiaries S.A.A.)

Form. 1012 Filled Bombs.

Form 1022 Reports on failures + defects.

Form 1023 Returns on failures + defects as on Form 1022 previously reported and are repetitions

Form 1028 Gunpowder + Guncotton (not corridite)

## Maintainance forms + Records.

Form. 700 Aeroplane maintainence form.

\+ + Record of Firing signal mortar. Memorandum + Examination Chart.

Form 1610 Report for examination of S. mortar.

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# Explosive Regulations AP 2608. A.

The terms 'Explosive' or 'Explosive Stores' used in these regulations covers all substances. fuzes. + components.

Danger Area an enclosure with danger buildings.

Explosive store house (condition rules) a building not under Magazine condition or regulations.

ept Groups 5 to 13 must be stored. 3+4 can be, 1+2 must not be.

Magazine a danger divided into 2 parts. dirty + clean; clean, where stores are kept dirty, shifting lobby, 1+2 must be stored here, 3+4 should be.

Fuzing and spare bomb area, ~~light~~ buildings ~~or tent~~ used for temporary storage of fuzed bombs, plugged bombs can be stored, but bombs must not be fuzed or defuzed here.

Fuzing shed (not site) hut or tent used for opening packets of explosives, stores got ready for action, or repacking.

Ammunition an enclosed explosive substance designed to produce explosive effect for warlike purposes either by itself or components.

hort. 1-2 GROUPS. MAG. CONDITIONS.

3-4 " " " IF POSSIBLE.

5-15 " EXPLOSIVE STOREHOUSES.

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# Classification and Grouping of Explosives

Reason. Explosive are grouded acordding to the relative degree of danger they present.

1. Different in nature and sensitiveness, to respond to shock or friction. considerations
2. Different in stability and in liability to deterioration.
3. Convenience in ~~Usage~~, storing, packing and issuing, especially under active service conditions.
4. Additional precautions required by some explosives, e.g. White Phosphorus and Gas.

## Group. I

1 ~~Gunpoder~~ Gunpowder. ✓
2 Exploders. (filled.) ✓
3 Fuzes. Instatancous. ✓
4 Gunpowder Puffs. ✓
5 Primers (torpeder Filled C.E. ✓
6. Charges Propellent. ✓

## Group. II

1. ~~Smokless Powder~~ 1. Guncotton. 3. Fuzes. safe and Electric.
2. ~~Guncotton (Dry.)~~ 2. Puffs coridite 4 Fuzes. bombs ~~are~~ flares.
3. ~~Coridite~~ Puffs. 3. Primer, 5. Friction tubes. (if on its own.)

DRY GUN COTTON - GELLIGNITE

## Group. III

~~1. Smokless powder.~~

2. CORIDITE IN DUAL

## Group VI.

1. Wet Guncotton. AMATOL.

N.A group. 5 — SHELLS

## Group. VI.

1. All types of S.A.A except Incendiary
2 (Exploders. H.E. C.E. TROTYL. (IN EHY.)

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## Group. VII

1. All. Hv. C.s (FILLED)
2. Anti landing Mines.

## Group. VIII

1. Hand Grenades.
2. MORTOR AMMO.

## Group. IX

1. Bombs. (Practice). Flash.
2. Signal cartridges
3. Flares. (Landing. Reco. ground.)
4. Port fire
5. Projectiles, (Signal mortar) if packed. together.
6. Rockets. (Distress Marine)
7. ALUM. SEA MARKERS.

## Group. X

1. All kind of Detonators.

## Group. XI

1. Smoke Floats + Generators
2. Incendaries 4 lb. + 25 lbs.
   T. I MARKERS
   NOT CONTAINING PHOSPHROS.

## Group. XII

1. S.A.A – Incendiary. + PHOSPHROS.
   FLAME FLOATS. MARKERS MARINE.

## Group. XIII

1. Gas, Generators Lachrymatory.

NOTE. 11½ Practice Smoke, on its own. stand in well ventilated building.

## Group XIV

1. H.M.S. SHELLS. (SHIPS ONLY)

## Group. XV.

1. INFLAMEABLE MIXTURES. (20 ounces).
   NOT PHOSPHROS.

MIXING GROUPS.

1-2-4 – MAG. CONDITIONS.

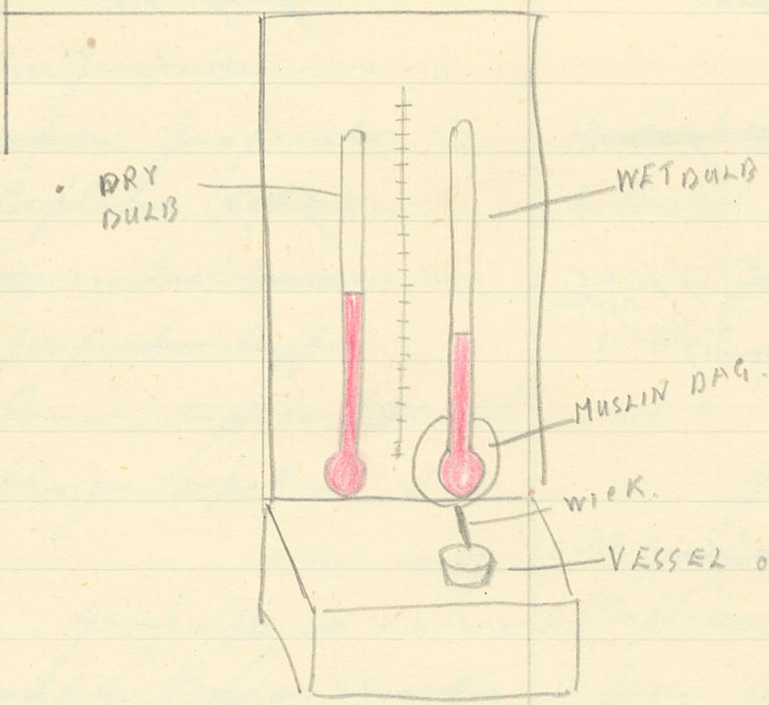
5-6-10+11. CAN BE STORED TOGETHER

7-8 " " " "

9-11 " " " "

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| Forms. | | where found |
|---|---|---|
| 1003. | Authorisation | In all danger buildings |
| 1004. | | Laboratories |
| 1005 | General of Danger Area + buildings (~~Facts~~), | At each entrance of D. area or buildings |
| 1006. | Grouping, Classification of Explosives. | in every Danger building |
| 1007 | Rules of (in out) clearance Magazine. | inside every shifting lobby. |
| 1008 | Articles Mes list | inside every danger building |




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# Wet + dry Bulbs.

Found protected from sun, wind, and rain, in case of, in Danger Area, not in buildings; used to indicate moisture contents of Area; wet reading must not be lighter than dry. The form is of 3 readings WET / DRY / RESULT. Precautions ÷ ensure that it's protected, water pure, muslin bag not split and wick in order. Take temperatures twice daily with 'A' Buildings; 'A' all four walls exposed to open air ~~B~~ but traversed, position of thermometer 'A' building on any wall. 'B' Type building more or 1 walls not exposed to open air ∴ or if building is artificially heated, (used for storing Coridite in bulk or likly to exceed 100°F) a maximum and minimum thermometer must be used, minimum reading at bottom of needle, maximum same, present at time Mercury top.

A TYPE BUILDING. ALL WALLS EXPOSED TO AIR.

B. TYPE .. NOT ALL WALLS EXPOSED TO AIR.

USE MAX + MIN THERMOMETER WHEN BUILDING (A OR B) IS ARTIFICIALLY HEATED - CORIDITE STORED IN BULK OR ∴ TEMP LIKLEY TO EXCEED 100°F.

READING TAKEN TWICE DAILY - + RECORDED ON A.F.G. 944

A TYPE
40°F. { IF BELOW 40°F.
IF ABOVE - PROVIDING THERE IS AT LEAST 3°F DIFFERANCE ON WET + DRY BULB READING.

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Rules for Ventilation. :- Pouger buildings are not to be opened for ventilation when raining, snowing or hail is falling, owing to rapid drop in temperature.

Class. 'A' buildings may be opened when external temperature is above or below 40°F providing there is a differance of 3°F between. wet & dry bulbs.

Class. 'B' may be opened for ventilation when internal temperature is eaqual to, or higher than the external, reading on A.F.G 956 Hydrometric Tables; if the temperature of the outer air is less than 32°F or higher than 100°F; provided that

(1) Internal temperature is higher than reading of wet & dry bulbs.

(2) Differance between wet & day bulbs more than 10°F.

1.)
2.)
3.)
4.)
5.)
6.)
7.)
8.)
9.)
10.)
11.)
12.)
13.)

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# Rules Applying to Explosive Storehouses or Danger Area

1.) Before entering D. area all prohibited articles, (matches, frictional objects ects) must be handed over.

2.) Prohibited articles ect, to be placed in Red box provided for same.

3.) Form. 1005 to be displayed at entrance of D. area and outside every D. building.

4.) Authorised tools will only be used in D. buildings, being of copper not frictional.

5.) Form 1008 will be displayed in every D. building.

6.) Oily rags ects, taken into building for use must be removed as soon as job is completed.

7.) Windows will only be opened for ventilation purposes.

8.) During thunderstorms, electric lights to be switched off, doors locked, and building vacated.

9.) Lightning conductors must be inspected twice yearly.

10.) Packages to be examined before taken in building, ones with broken tables thoroughly examined.

11.) Packages must note be opened in D. building, bombs more be unpacked, painted and ~~re-painted~~ repacked indide.

12.) Empty boxes must not be stored where explosives are stored

13.) All buildings must be kept very clean.

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## Demolition (continued.)

Safety Distances, Provided the bomb is in a hole twice as deep as bomb length; the length of cable to be use are

20 lb. H.E. or lesser weight 200 yds.
over 20 lb. H.E. 600 yds.

If the bomb cannot be buried the length of cables are as follows

| | | | |
|---|---|---|---|
| 20 lb. F. | bomb. | H.E. | 300 yds. |
| 40 lb. G.P. | " | " | 600 yds. |
| 250 G.P. | " | " | 800 yds |
| 500 G.P. | " | " | 1,000 yds |
| 250 A.S | " | " | 1,000 yds |
| 500 A.S. | " | " | 1,200 yds. |

For other distances look up A.Ps. 1245 Chapter 3. Section 19. Par. 3 sub-paragraph 1 to 6. Blind H.E bombs which cannot be moved are demolished in or on site, a sand-bag ramp is to be put up around bomb; or if not enought bags on sand bag between bomb & firing point. Bombs which can be transported are to be carried on well sprung and rubber tyred veicle, which is to use routes least used by others; bombs to be stowed in or on veicle lying down, secured with sand bags; all bombs 3 feet apart ~~from~~ in all directions.

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Blind bomb H.E. Practice :- to be dealt with as Blind H.E bombs.
Blind, Practice Flash or Smoke to demolish, use detonator and primer only; place both near to N28 Det Burster as possible. E
NOTE. if in the open sandbags are not necessary.

Destruction of other Unservicable Explosives.
Exploders, Guncotton & Similar Explosives,
'A' by demolition as for H.E. Bombs with same precautions taken, most ~~a~~ quanitity at once not to exceed 4 lbs.
'B.' Unservicable Detonators and those over age, distroy 25 at a time; distroy by detonation in a pit 2 Ft. deep 1 Ft WIDE; using Electric Detonator, the exploder being at least 100 feet from pit also under cover, danger zone 200 yds.
1. NOTE. Detonators with fuzes between head & body will be seperated with knife; the heads destroyed as 'Dets' and the body or fuze as for 'Fuzes'.
2.) Any fragments remaining undestroyed will be covered with oil and burned in small quantities under precautions.
3.) Detonating Fuzes. (Pyros). to be returned to equipment Depot and dealt with by the A.I.D Inspector.

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4.) ~~Gunped~~ Gunpowder remove from bag and put in a bucket of water, ~~stop~~ stir well and pour in pit on waste land, unserviceable bags and containers are to be burned under precautions.

5.) Safety and Instantaneous Fuzes burned under precautions or put in deep water.

6.) Pryotechnics Ditto.

NOTE. Flares (Reconnaissance) return to equipment store or depot to be dealt with by A.I.D. Inspector.

7.) S.A.A. Provided it is safe to ~~hand~~ transport from home station it will be returned to No. 2 Equipment (Ammunition) Depot, and from abroad to the appropiate Depot within the command. Should the quantities not warrant the cost of transport it will be destroyed locally under precautions and instructions.

8) Incendiaries bombs are to be destroyed under direct supervision of an inspector.

DATA

FOR

FOR

FOR

FOR

FOR

FOR

'A'

'B'

'C'

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Pyrotechnics

No 1165.

# MAGAZINE LOAN BOOK. (25)

FULL NOMENCLATURE _____

SECTION. REF. No

| DATE | DRAWN FROM STORE. QUANTITY | SIGNATURE | FLIGHT OR SECTION | QUANTITY RETURNED | EXPENDED QUATITY | VOUCHER No | REMARKS. |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

FORM 6·7·3 Internal Exchange Voucher 664B. REPAYMENT.

FORM. 6·7·4 " Demand. " 1087A. DEMAND ISSUE.

FORM 6·7·5 " Return " 605 STORES INWARD

FORM 2·1 " Conversion " 108 TEMPORY LOAN.

FORM. 2·9·9 Firing Point Regester 658 TRANSPORT.

FORM 6·6·8 " Loan Card 600 DEMAND ISSUE.

FORM 1·0·1 Stock in hand.

" 37 INVENTRY OR STOCK BOOK.

## 'A·B·+C' Stores

'A' Stores over that issued and does not wear out.

'B' " " " " " does wear out.

'C' " " " " " Consumable.

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1000 lb. S.C.I. MK.I.

Contains 6 Electric Cartridge Valves
3 Bakalite Discs

inside of container is covered with a coat of bakalite
contains 52 galls of S.2.D. ~~'A B & C' have to be plugged in~~.
Carried by 2000 lb. bomb carrier.

Wing Lift Flares (for landing)

For land planes use 'A' type bracket, ac Electrician has signed Form. 700. Test flare with (Tester Fuze) by connecting flare leads to tester fuze terminals, rotat arm and needle should flicker, this should be done in the open. Attach flare to a/c bracket, is now ready for flight.

Action On pressure of switch the current runs through the copper poles, so fusing the Platinum Silver bridge and igniting the dry guncotton dust, which ignites the quick match, the flash passes to igniter pellet which ignites primer compo and blows off closing, at same time igniting flare compo, this burns for 3 mins. This flare must be extinguished ~~by a jet~~ by a soda acid extinguisher. MK. I. & II must not be used in dry weather, as they drop a burning residue.

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For Flying boats & Seaplanes use type B. & D brackets which are similar to A but they are have 'auto casts off' acted by air pressure plate, set to cast off at 30 M.P.H. The 'B' has a anti glare sheild.

## Explosives Regulations cont.

### Stacking Explosives

1. Packages must be securely stacked in bays and raised on battons.
2. A clear space must be left between any stack and the wall
3. Heights.
4. Wet guncotton packages should be stacked up to give access to vent plug.
5. Gangways should be left between lines of stacks, wide enough to permit easy extraction of single packages.
6. Packages will be stacked horizontally unless otherwise specified on outside of packages.
7. Explosives of the same nature are to be stacked together and away from ~~from~~ other natures in the same storehouse.
8. Packages bearing lot numbers are to be stacked by lots, issues should be as few lots as possible, the oldest used first.
9. Explosives stores that do not bear lot Nos. are to be stored according to their natures, marks, maker and date.

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10 Seperate stacks of S.A.A should be made for each date of filling, except that old boxes may be stacked together.

11. Packages should be stacked so that lables, contents marks. are visable. Retest lables on S.A.A. Packages must ~~not~~ be visable without disturbing the stack.

12. Nil.

13. Stack cards should be attached to each stack, and date of last examination

14. Inventory boards showing contents (of each danger building) should be hung in a convenient position and kept up to date.

15 Units other than Equipment Depots and Ammunition Parks will mantain Magazine Loan Books

Lables :- Goverment Classification Lables

1. Showing service and Groups in which classified for storage purposes, is fixed to each boxor package containing Gov. Explosives.

2. A.I.D. lables of muslin denotes; packing of contents has been examined by an A.I.D. inspecting authority.

3. Station Monogram, lable of muslin denotes station which contents were packed.

4. Circular sealing lables on S.A.A. Boxes with sliding lids.

5. Distinguishing Lables, Large and small showing contents.

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6. Red Lables on S.A.A. boxes, if contents are for use the synchronised guns.
7. Retest lables on end of S.AA boxes, showing nature of test and date by which test should be concluding.
8. Prescriptive lable showing maker and date of filling.

17/3/41.

## Alvis Straussler Bomb Trailer.

Wheels hedd on by 6 Cadium nuts and 5 Red nuts; Carries 4 x 250 lb. 2 x 500 lb. 4 x 250 S.C.1: 2 x 500 lb. S.C.1. 1,000 lb G.P. 2 x S.B. Containes. Air pressure in tyres 20 lb. P. Sq. INCH., size 18 x 4. wheel lock. 60°/D. Draw bar telescopic, extended for positioning under A/c. 5'-1". close. 3'-2¼". clamped in to position; 3½ turns to extend it. Minimum ground clearence is 4 to 5 inches, loaded Maximum 15 to 16 inches, giving hydrolic jacks 11-12" Elevation, when filling rams or jacks use "Price's Hydrolic Jack oil (Ref No. 2391.) 10 grease points in front, 8 at rear, 30 cwt type jacks, Tellecamint Grease gun used.

Torpedo Trally. has two throats, one for 1,000, + 1900 G.P. the other ~~afor~~ (small) for Torpedo, 2,000 AP. 1,000 S.C.1.. Gears rotat crown wheel, draws inwards thrust blacks, raising scissors + Throats through central threaded tube or rod.

Type. 'B' Transporting Trolley used for single Bombs, 250. 500. 120. GP.

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## ANVIL TYPE — MODERN DETONATORS

| NO. | DELAY | COLOUR | PISTOL |
|---|---|---|---|
| 35 | 11 SECS. | BLUE | BLUNT STRIKER |
| *43 | INST. | WHITE | NOSE. 27 - 29 - 33 - 38 |
| 44 | 1 SECS | YELLOW | TAIL 28. |
| 47 | ·12 SEC. | BROWN | |
| 49 | ·025 SEC. | BLACK. | |

## SENSITIVE TYPE. (1" GREEN TAIL.)

| | | | |
|---|---|---|---|
| 39 | 1 SEC | YELLOW | SHARP STRIKER. |
| 46 | 2 SEC | GREEN | NOSE 42 - (44 + 45 DYAPHAM) — NOT USE WITH HE. DOMES) |
| 48 | ·04 | RED | TAIL 30. |
| 50 | ·14 | BROWN | |
| 51 | ·025 | BLACK | |
| *52 MK I | INST. | WHITE | — 44 + 45 PISTOLS. |
| *52 MKS. (II + III) | INST. | WHITE | — 44 + 45 PISTOLS. |
| 53 | ·5 | ALUMINIUM | |
| 54 | 3 SEC. | GREY | |
| 55 | 11 SEC | BLUE. | |
| 56 | ·05 SEC. | | FOR USE WITH. AP. 2000 IV |

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## PISTOLS + FUZES.

38 MK III — 20 F. 40 GP.

44 MK I. — ALL MOD. BOMBS. UP TO 1,000 lbs.

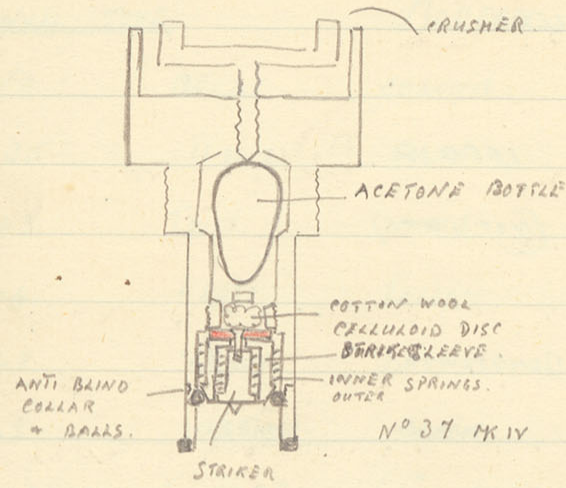
44 MK II — UP TO + 4000 GP. + MC. (NOT. H C)

45 — 20 F. 40 GP.

42 — (MOD. 27) ALL MOND. BOMBS.

| | | NOSE | TAIL. |
|---|---|---|---|
| GP. MKS. I II III | 250 500 lbs. | 19 | 22 |
| GP. MKS. I + II | 120 lbs. | 19 | 21 |
| GP. MKS. IV | 250. 500 " | 27. OR 42-44 = | 28-30-37 |
| GP MKS I | 1000 1900 " | " " " " " " | |
| GP. MK IV III | 1,000 " | TAIL ONLY | " " " |
| M.C. 250. 500. 1,000 | 4000 " | 27. OR 42. 44 = | 28-30-37 |
| S.A.P. MKS. I II | 250. 500 " | | 30 FUZE. |
| S.A.P. MK. II | 250 500 " | | 28. 30 |
| A.S. MKS. I II III | 250 500 " | | 32 FUZE. |
| A.S. MKS. IV | 250 500 " | | 30 PISTOL. |
| A.P. MKS. I II III | 2000 " | | 37 FUZE. |
| A.P. MK. IV. | 2,000 " | | 30 PISTOL. |
| H.C. 2000 - 4,000 | 8,000 " | | 27 OR 42. |
| SMOKE 100 | | | 854 FUZE. |
| " 120 | | | 864 " |

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N° 37 MK IV

37 · 37A · 37B · 37D 37E

6 · 12 · 26 · 72 · 144

250 L.C. BOMB · 36 MK I. + 36 · MK II. FUZE · + (G.P. CHARGE. NO 1 MK I. OR N° 2 MK II)

GAUGE .280

" INC. " 36 MK II · N. DELAY. (N° 2 · MK I. CHARGE. (GROUP 15)

30 L·C MK I. N° 38 FUZE. (2 NUTS)

30 lb. L·C MK II. N° FUZE.

30 " INC MK. N° 38 FUZE. (M. TYPES FOR LUGS. L.S. CARRIER)

" " " MK II. 3+4 · 846 FUZE.

45 PISTOL 20 F · 40 lb · GP.

FUZES. 854. 100 SMOKE BOMBS.

864 120 " "

848 MK V FLASH (ONLY)

860 T. I FLARES (AIR PRESURE) + CLUSTER BOMBS.

846 30 lbs. INC. MKS. II III IV

849 FLASH (ONLY) (WITH CLOCK SETTING)

M III FLASH. (15 TO 93 SECS.) YANK

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# 250 lbs. DEPTH CHARGE. AP 2111 A.

250 lbs. D. CHARGE. MK 8. 8* + MK 11.

MK 8 ROUND NOSE. MK 8* IS MK 8 MOD WITH SPOILER ATTCHACHMENT ON NOSE.

MK XI (11) WITH READY MADE CONCAVE NOSE.

D. CHARGE HAS CENTRAL TUBE, TO FUZE UP PUT IN SPRING THEN MK 8 PRIMMER (2 C.E PELLETS). NEXT TAKE MK XIV (14) OR MK XVI (16) WATER PISTOL UNSCREW DET CARRIER INSERT MK VII (7) WITIGHT P CAP DET (RED + BLUE) SCREW DET CARRIER ON PISTOL. INSERT PISTOL INTO DEPTH CHARGE - SCREW DOWN VALVE BODY LOCKING NUT. PUT ON TAIL UNIT. (USE STRIKE GAUGE).

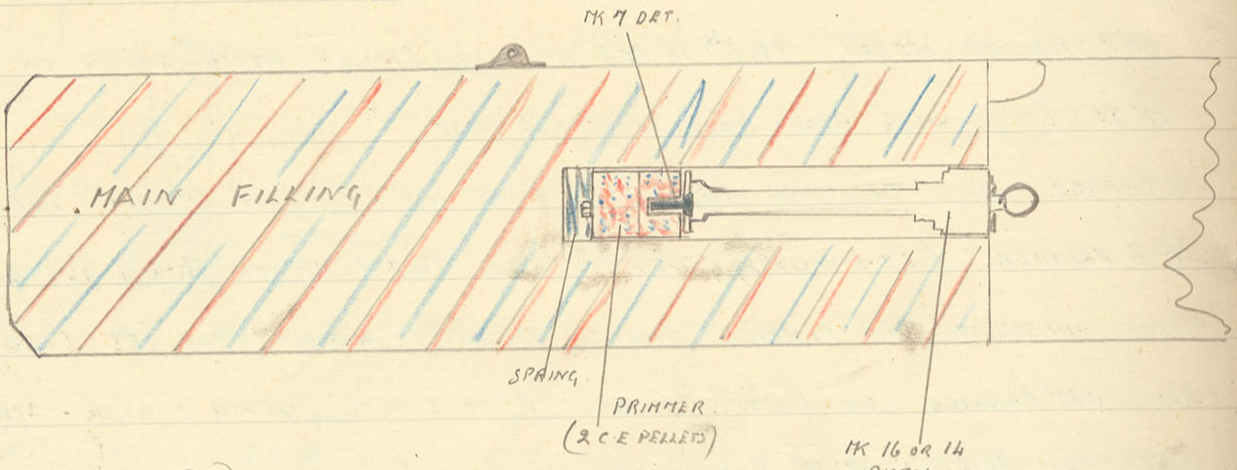
MK XIV LASTEST PISTOL.

| MK XVI (16) PISTOLS. | MK XIV (14) |
|---|---|
| FIRES @ 25 FT. @ A PRESURE OF 8-9 TO 10·6 lbs WHEN DROPPED 173 KNTS. (200 MPH) FROM 500 FT. | FIRES @ 25 FT @ A PRESSURE OF 6¼ TO 8 lbs. WHEN DROPPED @ 173 KNTS. OR 200 MP·H FROM 750 FT. |
| FIXED STRIKER ASSEMBLE. | STRIKER ASSEMBLE FULLY FLOATING |
| GRUB SCREW | NARROW DISTANCE RING PERMITS MOVEMENT OF FLANGES |
| GO + NOT-GO GAUGE TO BE USED | INCRESSED DIAM. OF BODY + CENTRAL TUBE. |
| RED BAYONET RING | 4 STUDS ON BODY - JUBILEE CLIP |
| COPPER DISC WITH DET. HOLDER. | NO-GO TEST N/A. |
| | BLUE BAYONET RING. - NO COPPER DISC. |

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# 250 DEPTH CHARGE.

STO
(1)
(4)
(7)
(10)




MAIN FILLINGS (3)

2" GREEN BAND 40/60 = AMATOL.

2" .. .. WITH XXX 40/60 = FIRST GRADE - AMATOL FIRST CLASS.

} ALL WITH ½ RED BAND.

2" BAND BLUE RINGS = TORPEX.

RECO FLARE CAPSULE

| | | | |
|---|---|---|---|
| Nos. | 3 MK II | 3,000 | MK. IV FLARE. |
| | 4 | 4,000 | |
| | 6 .. | 5-6,000 | |
| | 8 | 7-8,000 | |
| | 10 .. | 9-10,000 | |
| | 12 | 11-12,000 | |
| | 14 .. | 13-14,000 | |
| | 16 | 15-16,000 | |
| | 18 .. | 17-18,000 | |
| | 20 . | 19-20,000 | |

FLASH CAPSULE

| | |
|---|---|
| N° 4 MK II | 2-7,000 FT |
| P 7/9 | 7-9000 " |
| P 10/12 | 10-12,000 " |
| P 13/15 | 13-15,000 " |
| P 16/18 | 16-18,000 " |
| P 19/20 | 19-20,000 " |

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# DEMOLITION AP 2608(A)

STORES REQUIRED

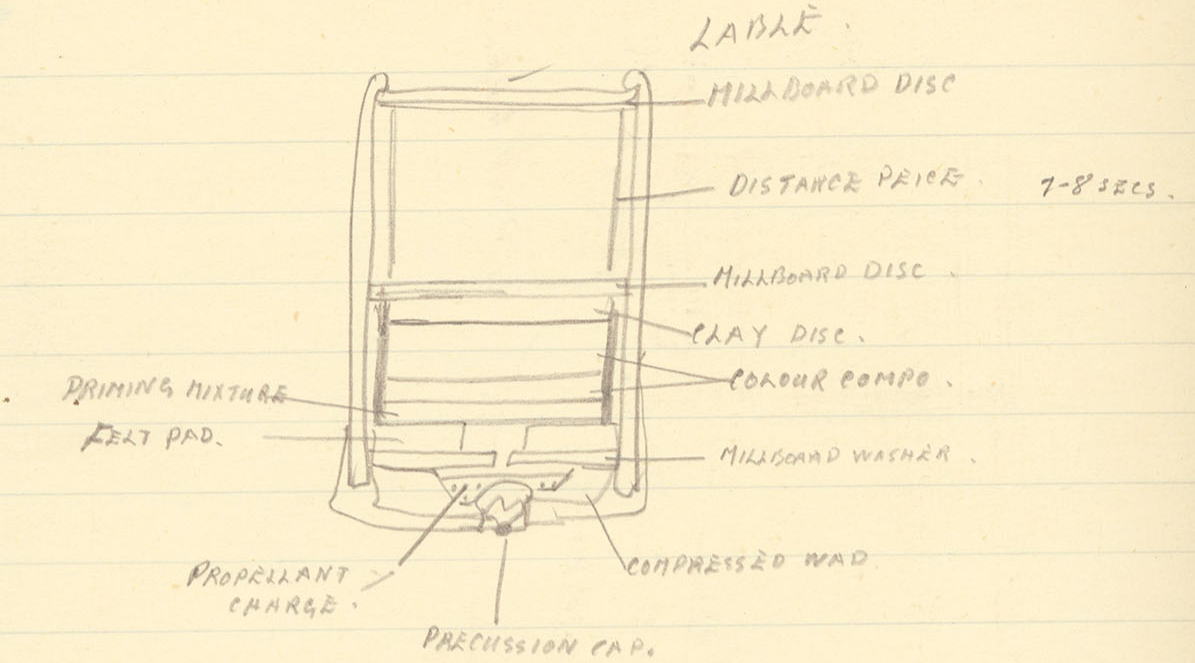
(1) BOMB ECT (2) 1 lb WET GUN COTTON (3) 1 OZ DRY GUN C PRIMER

(4) RECTIFIER (5) ELECTIC DET. 13 OR 33 (6) INSULATION TAPE

(7) N°7 DAMPROOF CABLE 23 Ω. (8) DYNAMO EXPLODER (9) TESTER FUZE

(10) SPADE - PICK - PLIERS (11) 6 RED FLAGS 1 BLUE (12) STAKE

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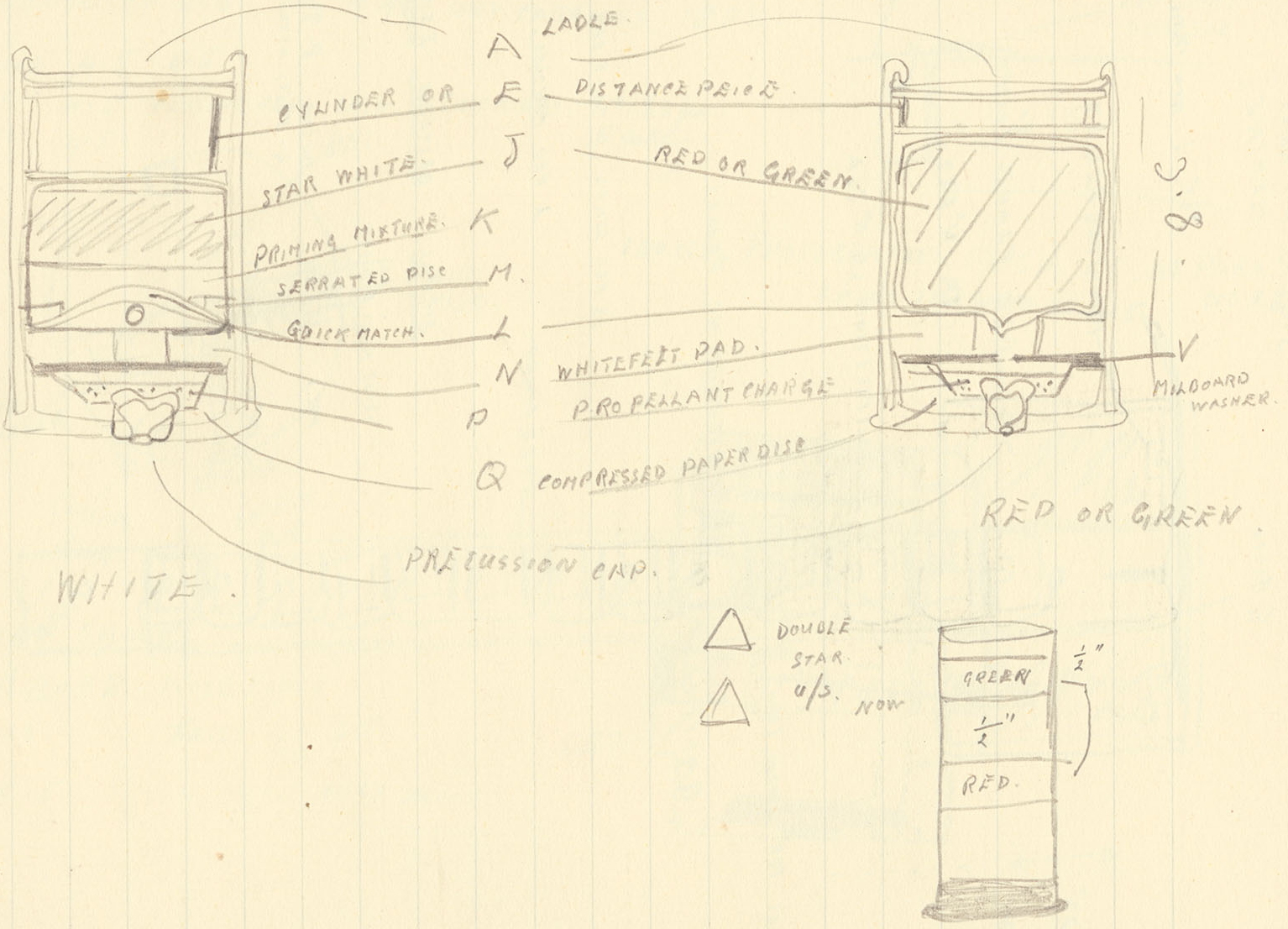

---

2,500 FT. (10 SECS. BURN.) 6·9" LONG. ILLUMINATING CARTRIDGE

BROWN. 5·8" W.S.D. CLOUDY DAY.

WHITE. 4" W.S.D CLEAR DAY (½ SECS. DELAY.)

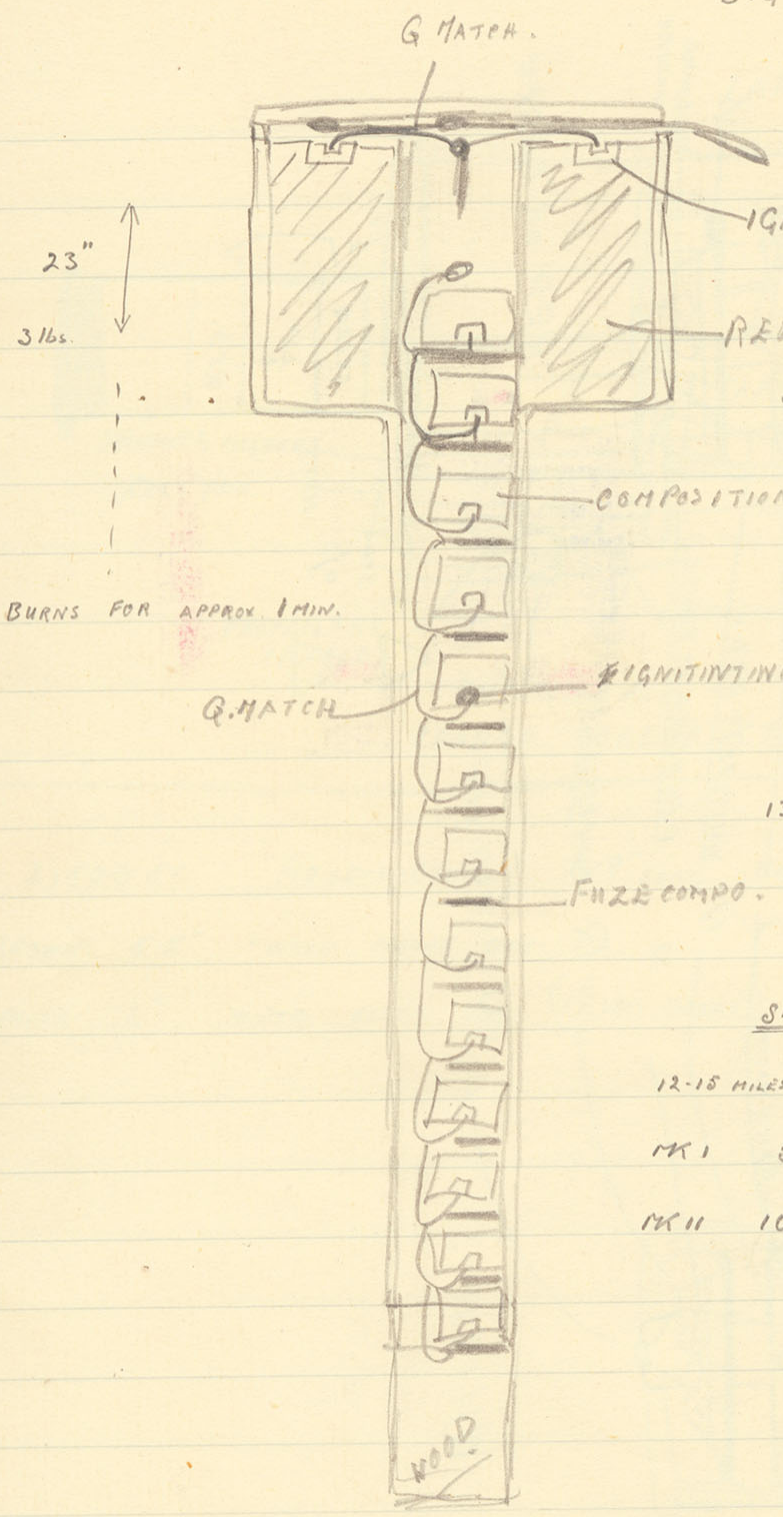
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SIGNAL DISTRESS
MARINE.

MK. I NOW MK III




13 RED STARS @ 4-5 SECS BETWEEN EA.

2 RED CANDLES,

SIGNAL DISTRESS 2 STAR RED

12-15 MILES @ NIGHT.

MK I 50 FT. BURNS 8-9 SECS.
4-5 SECS BETWEEN.

MK II 100 FT.

UN- OR- LB. CARRIES.

CR. PADS. 13

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CR. PADS. 'B'

UN- OR- LB. CARRIES.

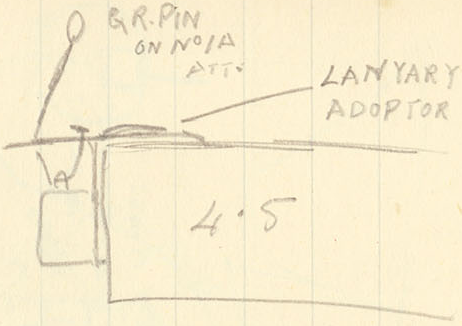
75.0,000, C.P. 4·5" MK1 · 3¼ MINS. MKS II 3-4 MINS. 11 FT PAR.

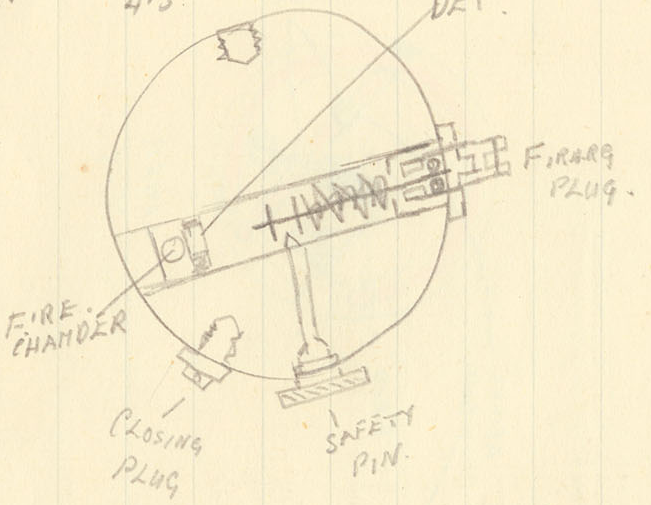
1000000 C.P. 5·5 3¼ TO 4¼. UNY. CARR ONLY. 18 FT.

28 FUZE 4·5" · 5·5

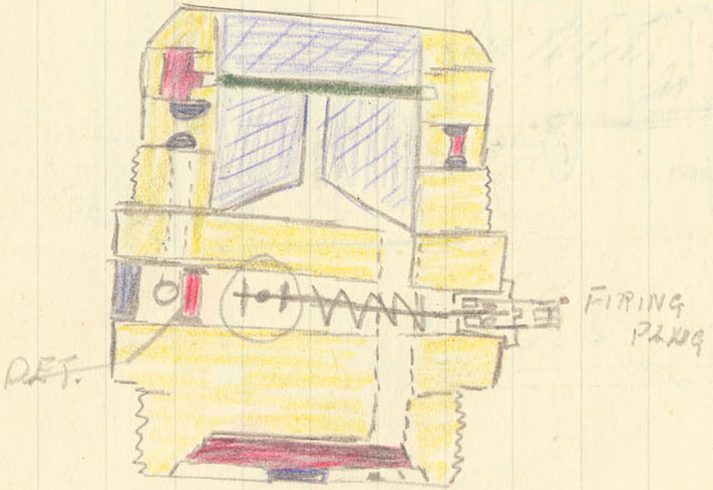
25 " 4·5 CLOSING PLUG. 3 SPIN. 2 TIMERINGS. N°123 for setting.

42. " 4·5




·100 SECS. PHOTOGRAPHIC FLASH. 4·5. NO PARA.
LOOKS THE SAME AS 4·5. N° 284.




FROM SHOOT.

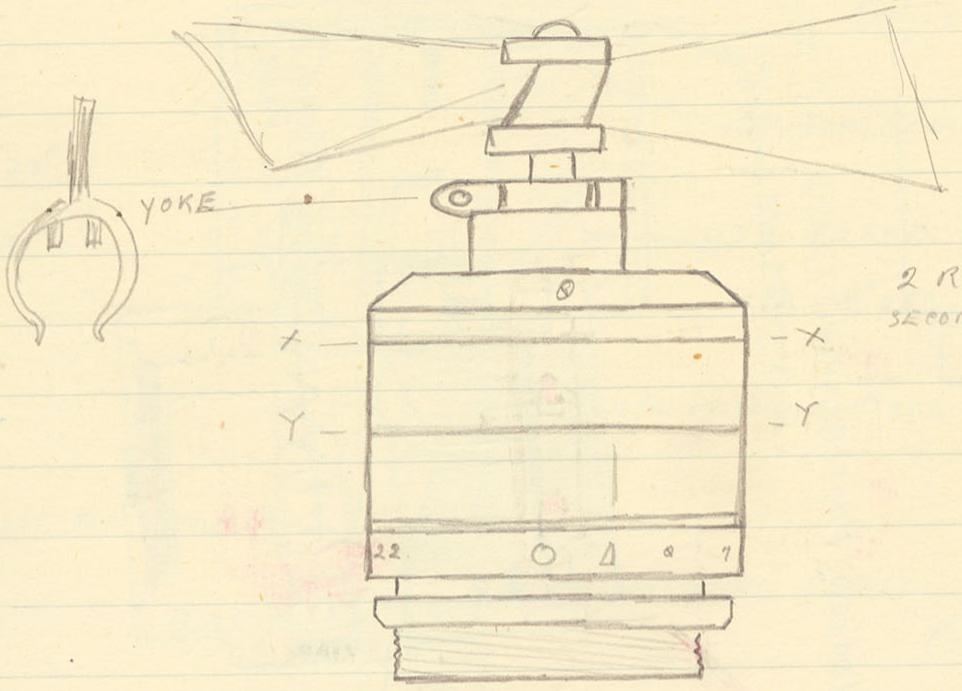
TR. FLARE. NOSE FIRST

4·5 FAIL " 25.

5·5 " " ONLY SHOOT.

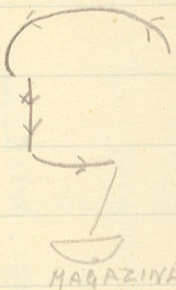
IBCC Digital Archive

28 Fuze. (104. 89 KEYS.)

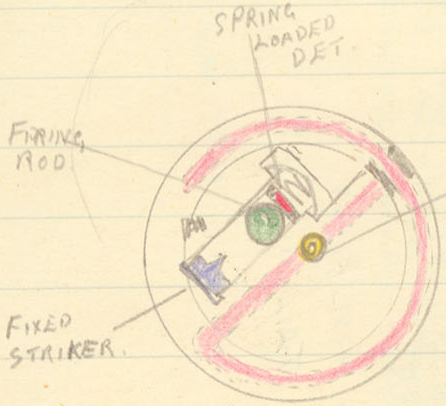



2 RINGS.
SECOND TO BE MOVED FOR DELAY.

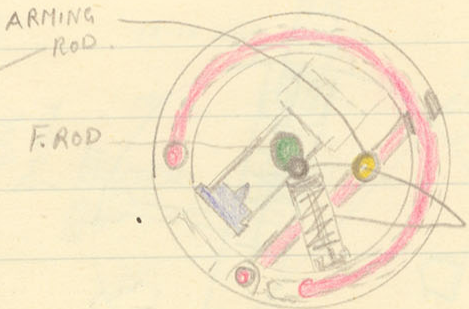
7-22 SECS



MAGAZINE.



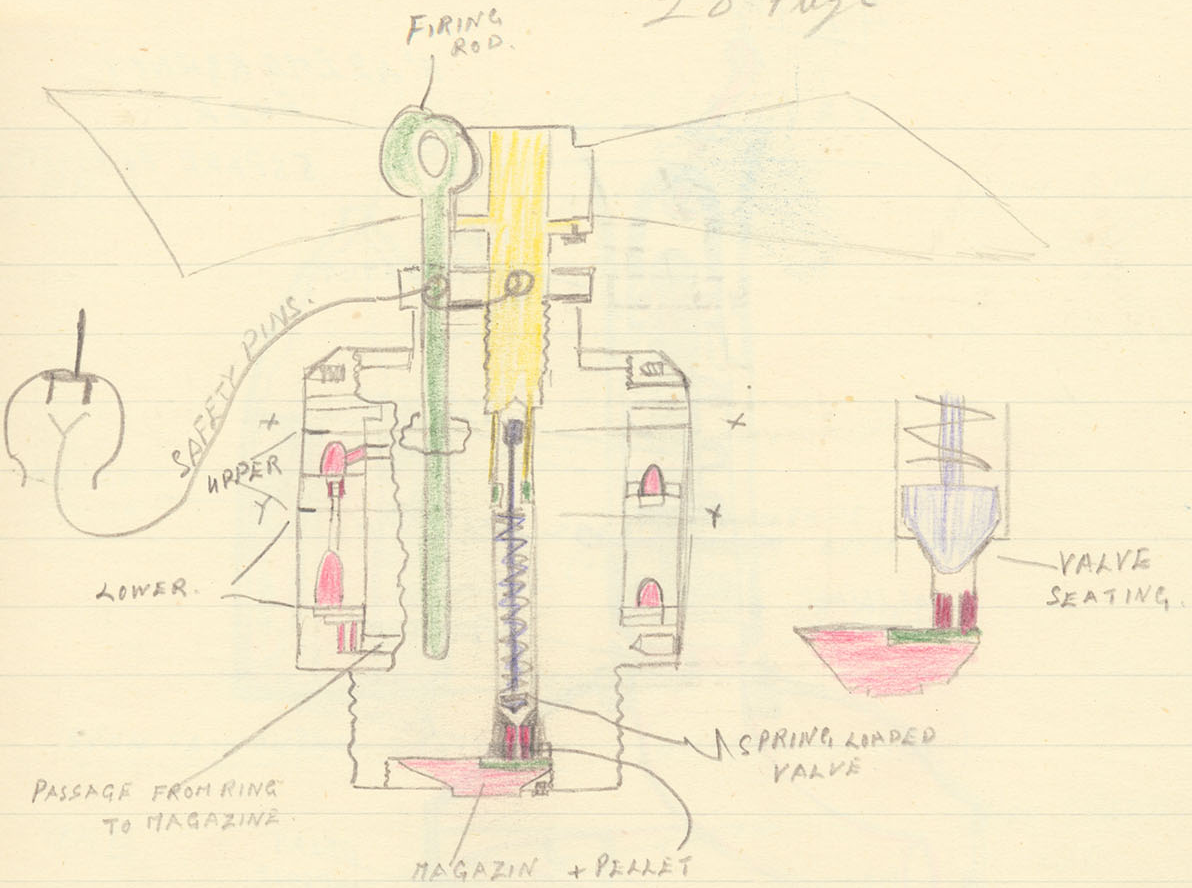

UPPER
Y-X.




LOWER
Y.Y

IBCC Digital Archive

28 Fuze

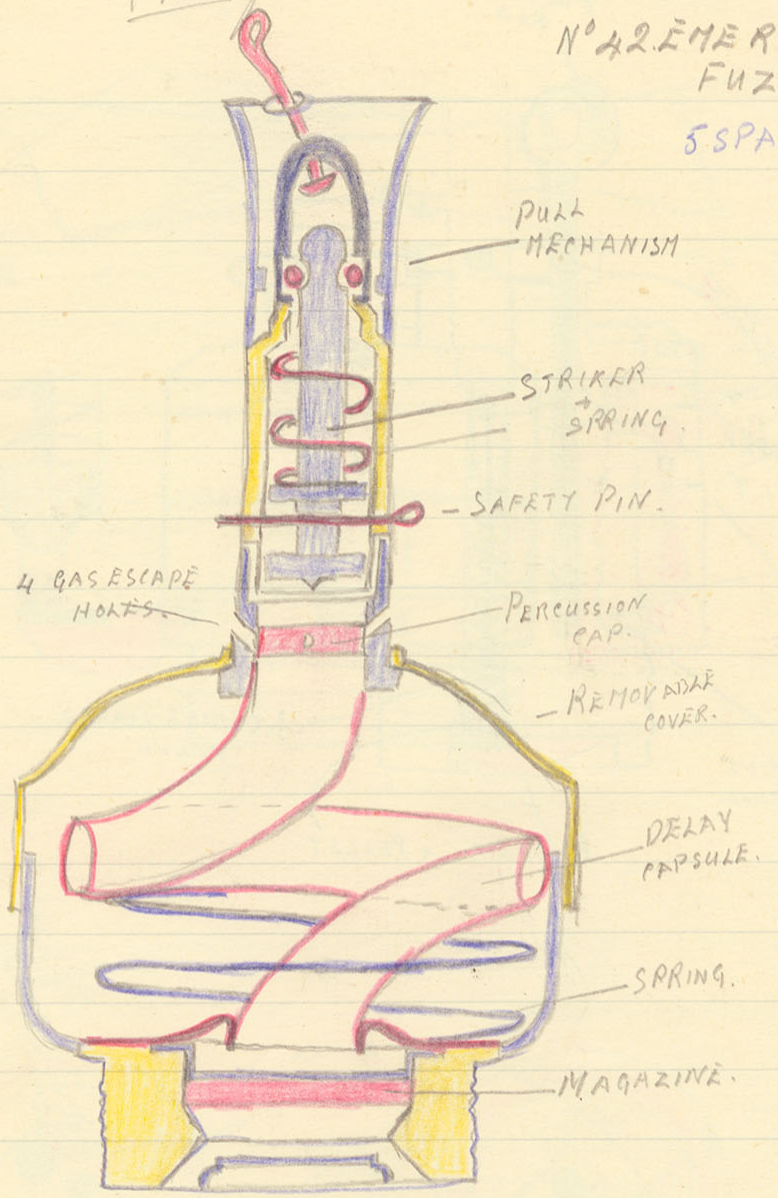



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42 Fuze.

N° 42 EMERGENCY FUZE.

5 SPARE CAPSULES.

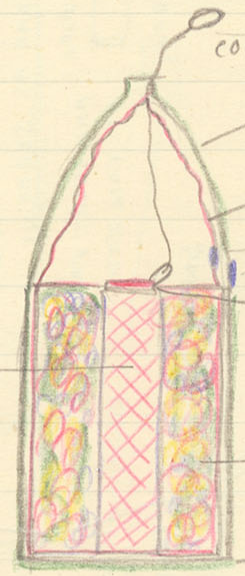



FOR USE IN RECO FLARE ONLY.

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# FLAME FLOAT. NAV.

MK. I.

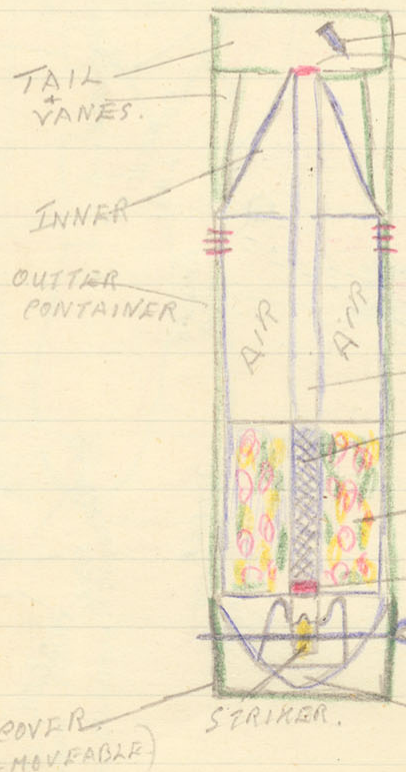



LOW SPEED A/C

5 MINS.

SPONTANEOUS IGNITION. (PHOSPHINE GAS.)

MK II.




HIGH SPEED A/C.

6 MINS

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500lb CARRIRD ON UNV. 1 OR 2.
USE ADOPTOR BOX FOR 'H' DETT.

26 galls. S.A.D. MIXTURE.

TEST DET 30FT. CABLE. .02 VOLTS.

(E type 15 FT.) (CRUTCHES 'A' (REAR & TYPE)
OUTTER. (FRONT)

250 MK III SAME AS 500 MK. III
ONLY PIPE AND INLET VALVE
AT TAIL END.

250 EXTERNALLY ONLY

SMOKE CURTAN APP.
500 lb. MK. III

A/C

INLET VALVE
LOCKING NUT
PLATE FILLING PLUG
SADDLE
SUSPENSION LUG.
RUBBER PAD
RUBBER COVERED CONTAINER
DAFFLE COWL
JUNCTION BOX.

BAKALITE
STEEL
RUBBER

TIAL FAIRING
EMISSION TUBE.

STEEL SECURING RING.
DOLTED FLANGE.
ALUMINIUN ALLOY EMISSION TUBE.

WHITE.
RED
SPRING CLIP.
BAKALITE DISC.
Nº 2 DET.

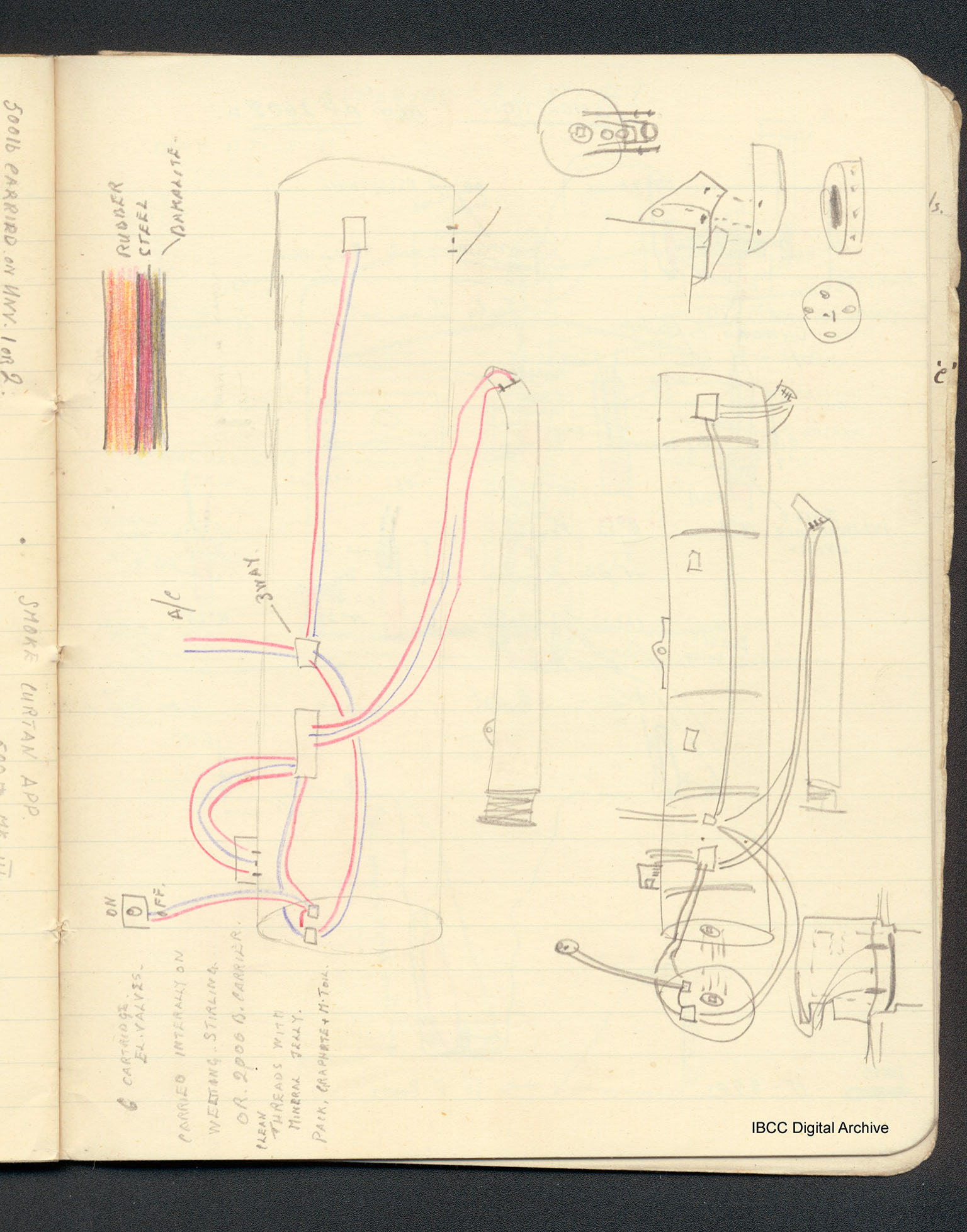
2 WHITE
Nº 3 ELECTRIC DET.
ADHESIVE TAPE.

DAFFLE COWL
INNLET VALVE.
STEEL
RETAINING RING.
COLLAR.
BAKALITE DISC + DET.

('A' POS. ON CRUTCH OUTER.)

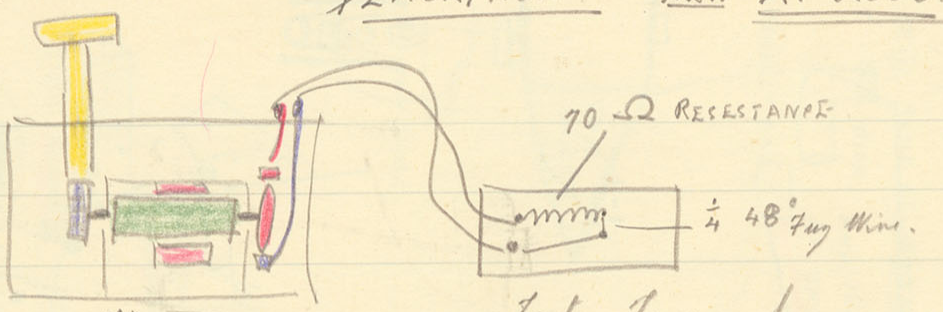
FRONT
TRANSIT COVERS.
REAR

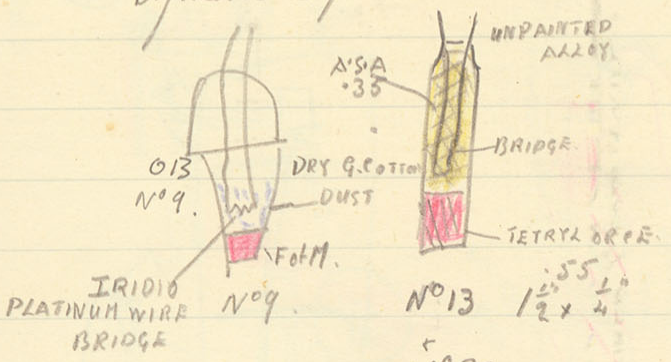
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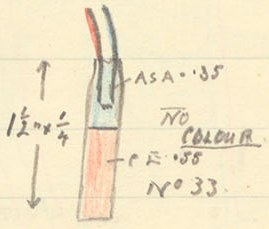
# DEMOLITION NEW A.P 2608.A.

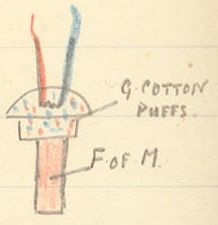


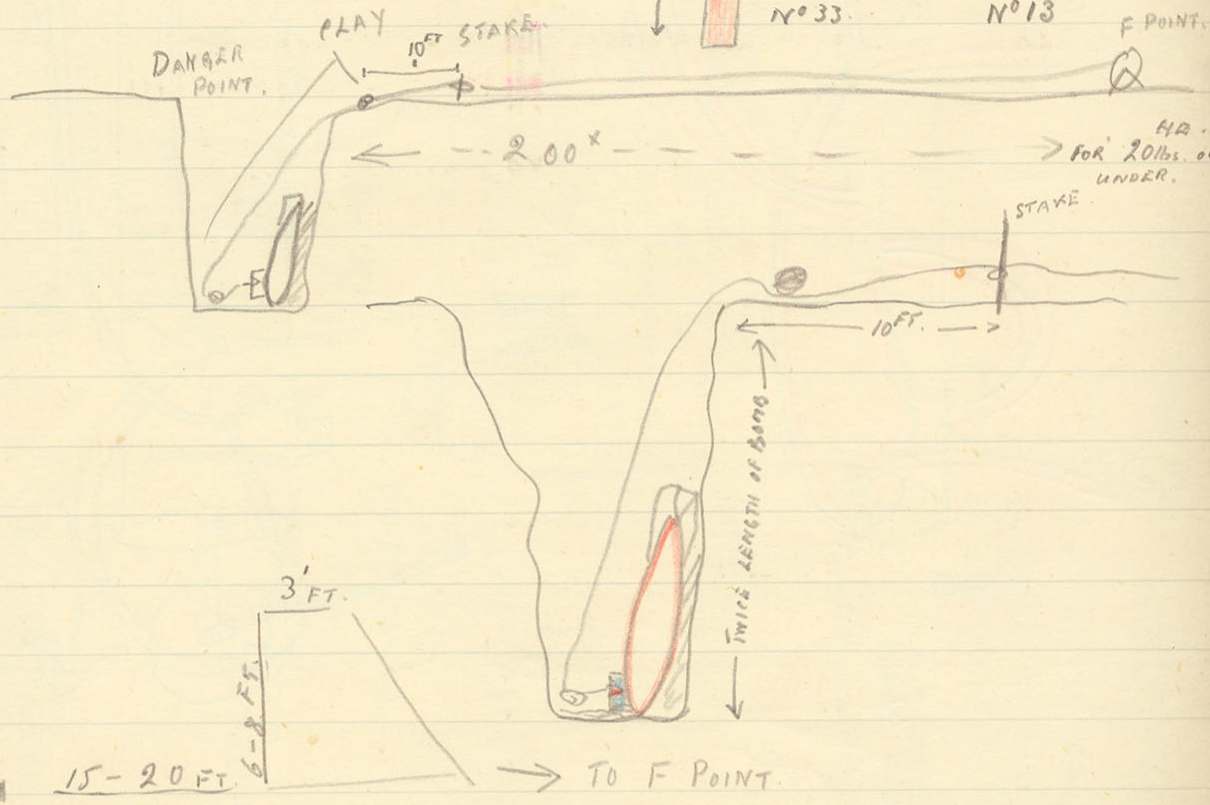









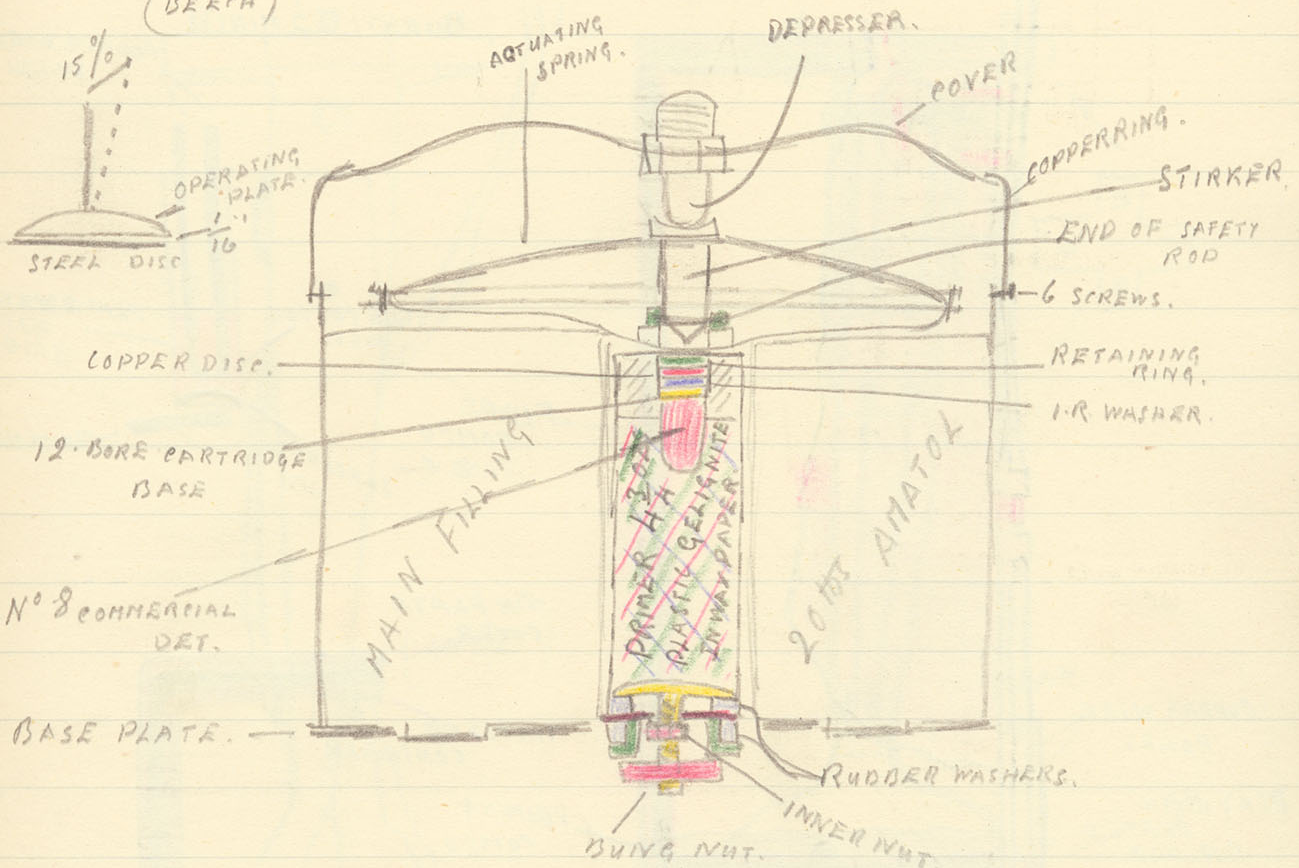

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APPARTUS A.L. No.1 MK I.

(ANTI LANDING)

NAV. B. TYPE 'C'

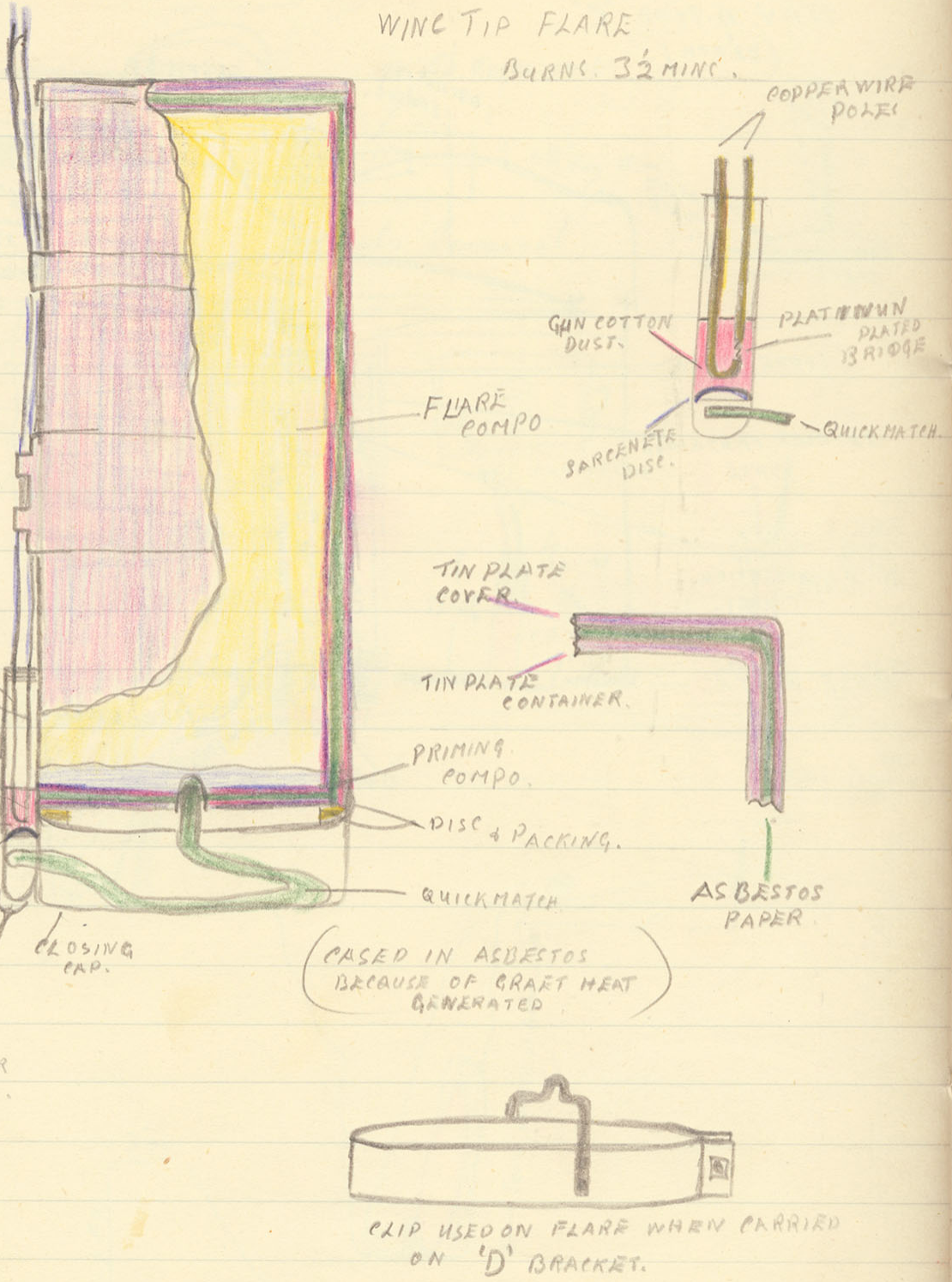
(BEECH)




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WING TIP FLARE

BURNS 3½ MINS.



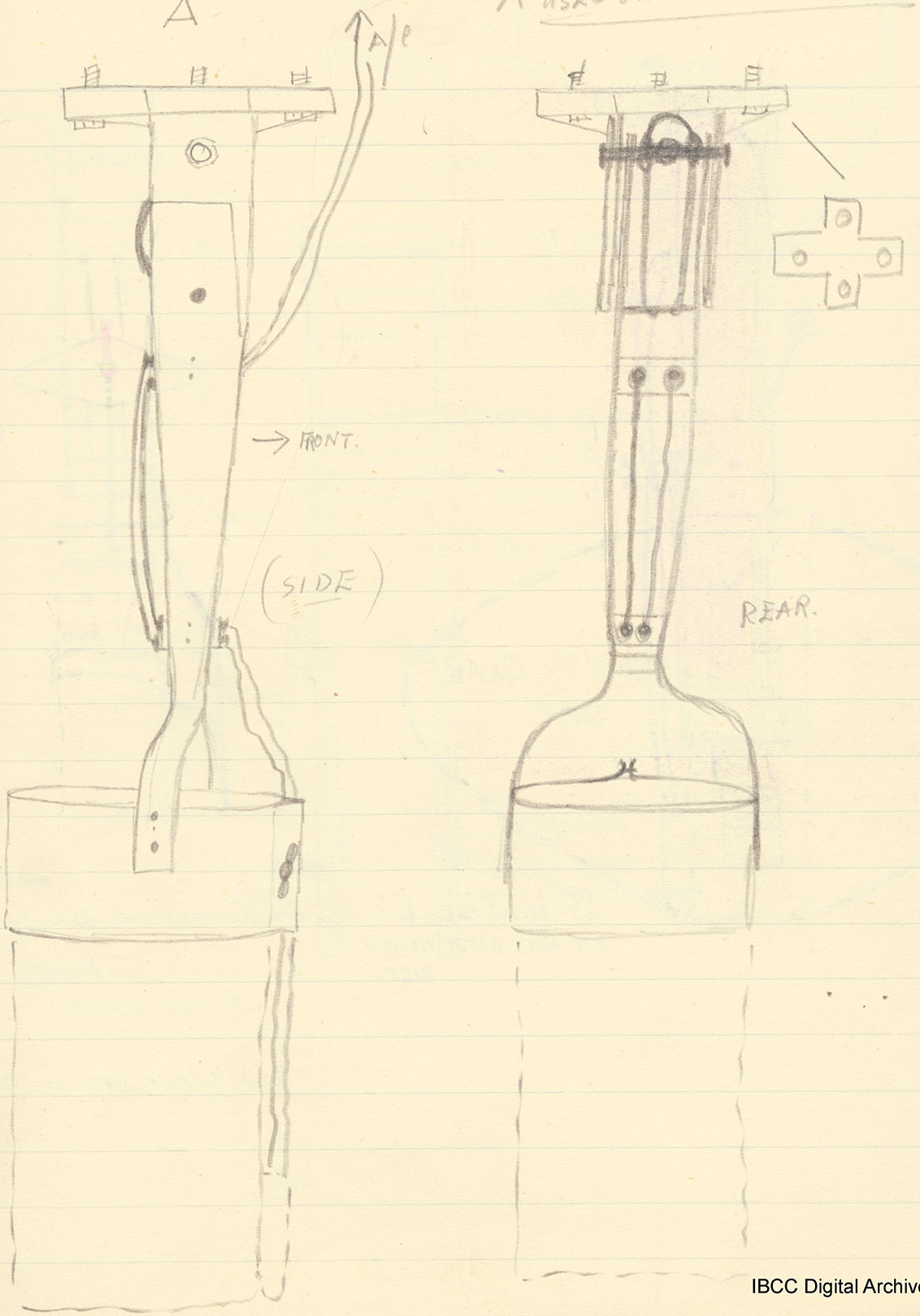



CLIP USED ON FLARE WHEN CARRIED ON 'D' BRACKET.

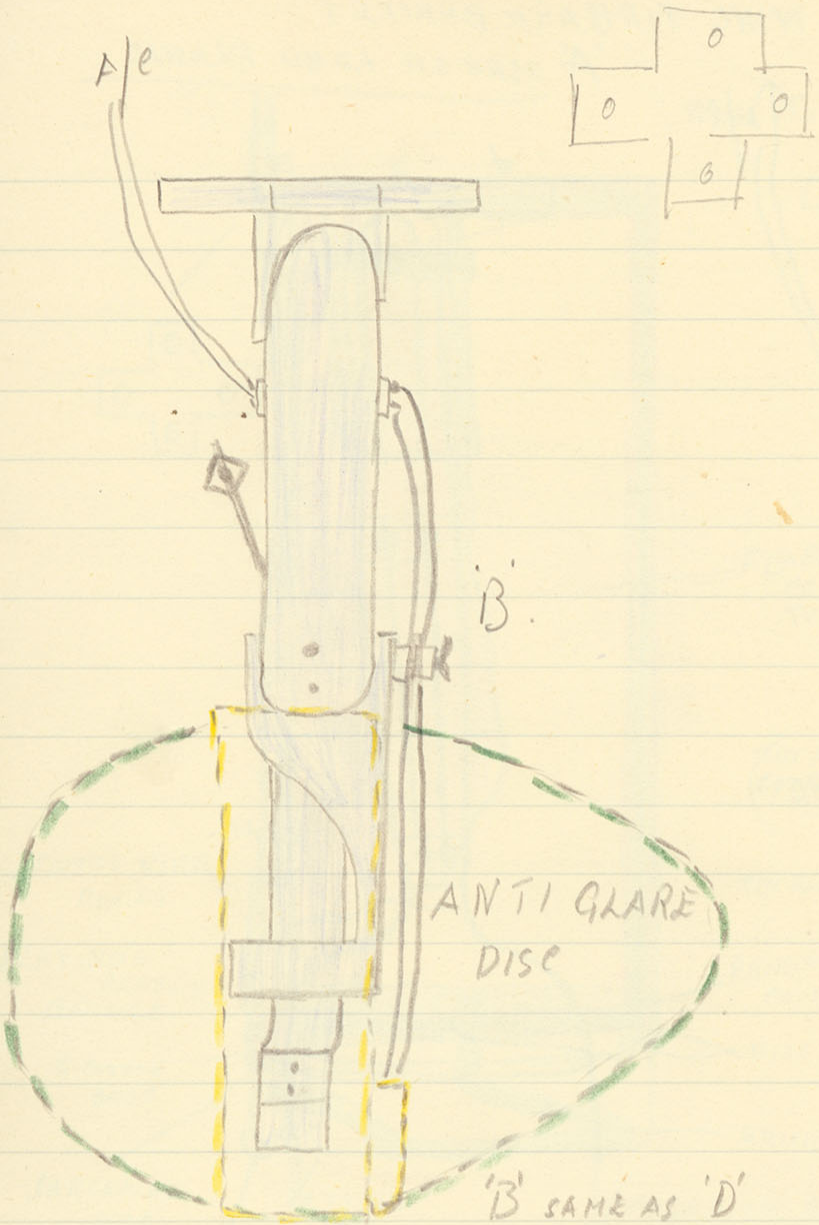
IBCC Digital Archive

WING TIP SKID BRACKET.
'A' USED ON LAND PLANES.

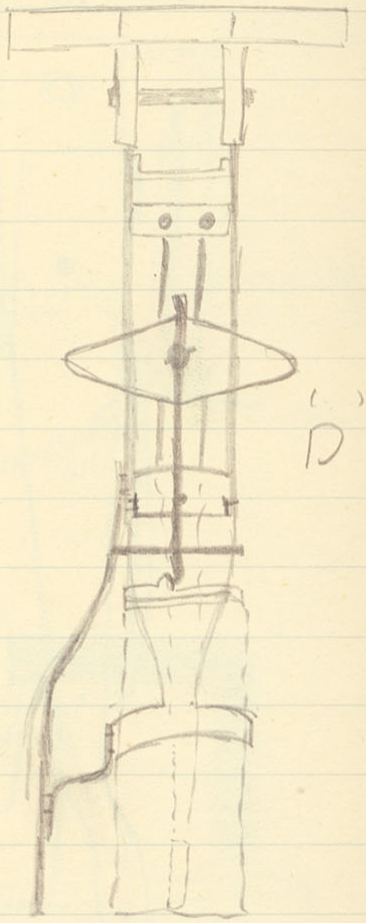
'A'




IBCC Digital Archive






'B' SAME AS 'D'
ON HAS ANTI GLARE
DISC.

AUTO CAST OFF.

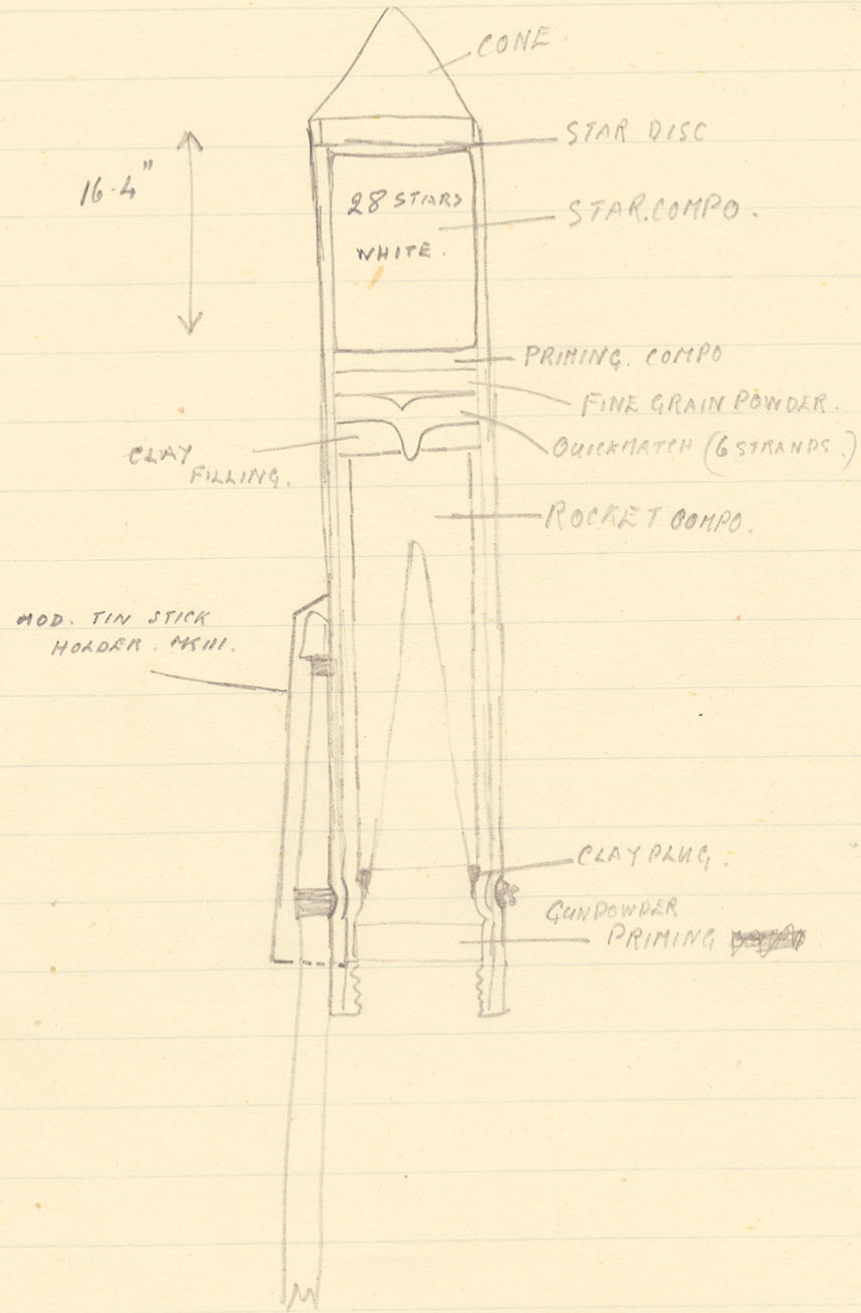
'D' USED ON SEA } PLANES.
FLOAT }
FLYING BOATS.

SET TO CAST OFF AT 30 M.P.H.

IBCC Digital Archive

ROCKET SIGNAL ~~MK III 1lb~~.

900 FT.




IBCC Digital Archive

ALVIS & STRAUSLER TROLLIES. 1664 D.

TYPE B. T. PRESURE 40 □ 1,000 lbs. (CARRY.)

LOADS 2 × 500' 4 × 250 lb. 2 × 250 S.B.C

TYPE C T.P. 45 □ 3,000 lbs. (CARRY)

LOADS. 1 × 2000 1 × 1900 2 × 1500 VEG. 3 × 1000 6 × 500 - 8 × 250.

TYPE D MK II. 60 □ 4,000 (CARRY)

TYPE E. TP. 75 □ 12000 lbs (CARRY)

1 × 8000 HC 2 × 4000. 4 × 1500 VEG. 6 × 1000 4 × 2000 AP.

4 × 1900 9 × 250.

500 - 2000 - 4000 lb. GYRAL WINCHES. AP. 1664 C.

500 lb WINCH. ALUMINIUM COLOUR. CLUTCH SLIPS @ 880 BREAKING STRAIN 35 CWT.

REDUCTION GEAR 50-1 SAFTY LOAD 550.

2000 MK I. (GREEN.) CLUTCH SLIPS. TO 3360 - BREAKING STRAIN 4 TONS.

RED. GEAR 246 - 1. SAFE LOAD 2,100 lbs.

2000 MK II GREEN. WITH RED - CLUTCH SLIPS @ 5750 - RED. GEAR 246 - 1

MAX LOAD 2,100 lbs.

4,000. YELLOW RED. GEAR 448 - 1 - SAFE LOAD 4,100 lbs.

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3-3-41 **2000 lb. Bomb Carrier TYPE 'A'** NOW u/s.

TYPE 'A' 1 Sling 9 TONS.

TYPE 'B' 2 Sling 2 × 5 TONS

Description 'A' consists of a sheet steel girder with nose + tail crutches, strainer (hand), attachments, fuzing, release slip MK. III. EM. Unit 'C'

Fuzing attachments. 8" + 18 INCH. 8" for. 1000. G.P. 18. 2000. A.P. suspension hook, and hole for hoisting to a/c. Use adaptor crutch for 1000 G.P.., clearance between bomb + carrier. 50 thou.

Ref. 'A' type cables. T 'B' T

Stores carried Torpedoes., 2000 AP. 1000. GP. 1,900 NEW GP.

4-3-41.

Apparatus Supplies Dropping MK.S. 'B' consists of 3 parts. 1. bontainer, 2. cylinder 3. Parachute bucket, Filled through removable lid at one end which can be soldered in position if required to contain liquids. Precussion cap head hemispherical in shape and is fitted at nose end of apparatus, it will be damaged on impact but can be used 2 or 3 times before repair is needed. Parachute bucket is when parachute is filled and fitted at tail end, the parachute container is closed by 6 canvas flaps, a static cord is provided for releasing chute by fixing one end of cord to carrier crutch. Loads. Universil normally 104 lbs + 20 lbs over-weight. Parachute. 14 feet. MK. IV This apparatus is known as the Pack + Harness method, it is intended for use with packages or bales ect. which are to bulky for the MK.S. 'B'. Weights allowable on Mk. N°1 + N°2 is 160 lbs a special attachment is fitted to go over case. Chute is hooked on side and cord tied to beam of carrier.

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# 2000 lb. CARRIER TYPE A. MK. 1A.

MK 1A. LIKE MK1 BUT WITH ADJUSTABLE CRUTCHES. WHEN HOISTING BOMB PLACE RACK ON BOMB - FASTEN CABLE - TIGHTEN UP TO 'FEEL OF BOMB' - THEN PUT ON 25 - 30 MORE TURNS. (HALIFAX.)

TYPE B (2 CABLES. + CRUTCH HOLDER FOR 1000.) ADJUSTABLE CRUTCHES. - 'FEEL OF BOMB' THEN NOT OVER 35 TURNS. (STIRLING)

| LOAD. | SLING. | R. CRUTCH. | FUZING UNIT |
|---|---|---|---|
| 2000 lb AP. | THICK. 9 TON. SHORT | REAR C. | REAR 26" |
| VEG. | THICK LONG | " " | " 14" |
| 1000 GP. | THIN LONG. MARKED | AUX. C. | F + REAR 14" |
| 1900 GP. | LONG THIN. | R. C | F + REAR 14" |
| 2000 H.C. | LONG THIN | R. C | FRONT. 30" |
| 18" TORP. | LONG THICK | R. C | R. ATC. F.I.D. TORPEDO |

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