H. XI-SECTION 7.

CH, XI SECTION 7-MARKINGS ON PROJECTILES. Plates 13 and 14.

310. Projectiles are Marked, i.e., Stamped, Coloured and Stencilled, as a means of identification. Projectiles 2-pdr, and above are at present marked in the following manner:—

- (i) The Manufacturer of the empty shell places on it certain STAMPINGS, and in some cases paints the shell the appropriate body colour.
- (ii) The filling contractor is usually responsible for :-
 - (a) Painting the shell with the appropriate colour, except where this has already been done.
 - (b) Painting the coloured bands, and
 - (c) The stencilling.

The colouring and stencilling are kept up to date by the Armament Depots as the projectiles pass through their hands from time to time.

- 311. Markings may be divided into:-
 - (1) Stampings.
 - (2) Colouring and Stencilling.

STAMPINGS

312. These refer to the empty shell. The type of shell or filling is sometimes shown by stamping so that in the event of the painting becoming obliterated the shell can be identified.

The positions of the stampings are :-

- (i) Projectiles used for Fixed Ammunition on the body above the driving band.
- (ii) Other projectiles, on the base.

The following stampings will be found:-

- (i) Calibre and mark numeral of shell. (How, if applicable.)
- (ii) Manufacturer's initials and lot number.
- (iii) Date of completion of manufacture.
- (iv) H. or L. denotes heavy or light shell, where applicable,
- (v) C.S., B.S., or F.S. denotes cast steel, bar steel or forged steel (for shell).
- (vi) C.I. denotes cast iron (for Practice projectiles).
- (vii) P denotes Practice.

A.P.C.—Armour-Piercing capped.

S.A.P.C.—Semi-armour-Piercing capped.

C.P.B.C.—Common pointed ballistic capped.

C.P.C.—Common pointed capped.

S.A.P.—Semi-armour-piercing.

S.M K .- Target smoke shell.

SMK. B.E.-Smoke shell with base ejection.

CHEM.—Chemical shell.

CHEM, B.E.-Chemical shell with base ejection.

(viii) After mark of shell :-

A denotes over 2 c.r.h. and up to 4 (inch)

B ,, 4 c.r.h. ,, 6 ,,

C ,, 6 c.r.h. ,, 8 ,,

D ,, 8 c.r.h. ,, 10 ,,

See also para. 257.

- (ix) Q after the mark of shell denotes shell specially made to stand the pressure of the 6-inch, Mark XII gun. Shell for later high pressure guns, 6-inch, Marks XXII and XXIII do not have this letter.
- (x) N.T. or T. denotes shell is fitted for tracer.

COLOURING AND STENCILLING.

313. Projectiles in supply are painted and stencilled as applicable to either of the methods illustrated in *Plate* 14 where, for convenience, they are referred to as the "Old" method and the "Present" method.

Future policy is for a universal system of Markings for the Services. This standardised method is being determined by the Inter-Service Ammunition and Ammunition Package Marking Committee, and will be published in due course in a special pamphlet, B.R. 1202.

COLOURING.

The Bodies.

314. The Bodies of projectiles are painted befo	ere they a	re filled.	as follows:-
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Dull or H.E. Yellow Shell filled or suitable for filling with high explosive (which does not include gunpowder).

Green Smoke Shell B.E. Grev ... Chemical Shell. Dull Yellow, top haif ;] Smoke Shell, Black, bottom half.

Black All other projectiles, including those filled or suitable for filling with gunpowder.

Note. - Two shades of yellow are employed in shell painting :-

Dull Yellow ... Denotes shell filled H.E.

Bright or "Practice" Yellow ... Denotes that the shell is for practice purposes.

Points and Caps.

315. These are painted the same colour as the body except :-

Shrapnel shell Red. ... Green. Shell filled Shellite ...

Shoulders of target Smoke Shell ... Dull (H.E.) Yellow.

Bands round the Body of the Projectile.

between.

316. Note.—Lyddite filled shell have only the red filling band.

Red round head or shoulder ... Shell filled with explosive,
Red above the Driving Band ... Shell filted with live tracer,
White above Red filling band ... S.A.P. or S.A.P.C. shell, Note,—Early S.A.P. shell

have no White band.

White 1-inch wide on the body ... Centre of gravity for 15-inch shell, White 1-inch wide Position for grab on 16-inch shell,

Green or Green and Black on the Shell filled T.N.T. or Head filled T.N.T. If a fraction body or shoulder such as 93/7 is shown above the green band, it denotes T.N.T./Beeswax; some shell may also

have BWX stencilled in line with the fraction. Two Green with Practice Yellow H.E. special bombardment Practice. T.N.T. illing.

Practice Yellow ... Practice Projectiles and Target Smoke Shell,

Two practice Yellow ... Target ship practice,
Blue ... Shell filled R.D.X./B.W.X. Blue with T.N.T. stencilled below Shell filled R.D.X. T.N.T. band

Black zig-zag Radar.

Black H.E. Drill shell,

White zig-zag broken in three places A.R. shell, with AR stencilled in the gaps. "ROPE" below the AR denotes the type of filling

317. These are painted the same colour as the body. Fixed ammunition shell, filled lyddite, have the portion of the shell below the driving band and the base specially cleansed and finally painted green.

The colour of the Gascheth Cover Plate or Disc Tracer of base fuzed shell and the Screwol Ring, which surrounds the cover plate, denote the fuze fitted :-

SCREWED RING				GASCHECK COVER PLATE OR DISC TRACER					DENOTES	
Red	***	***	198	Red			***		Fuzes without delay action	
White	200	7330	1000	Red		444	***		Fuze Nos. 158A, 159	
White	464	244	1444	Red with	green bar	***	1.00	***	158	
Yellow		910		TALL		***	1100	217	., ., 345A, 346	
Yellow	***	414			green bar			-	215	
Blue		***	010	Rei	a. a.				470 400	
Blue	***			Ref with	green bar		100	***	The state of the s	
Red		***	***	Ref with	green bar				200 201	
Red	***	114	***	Red with	Yellow ba	T	****	117.77	500	
Red			***		White bar		***	122	551	

CH. XI-SECTION 7.

STENCILLING. Plate 14.

318. The following general stencilling will be found where applicable on the cap, shoulder, body or base (during hostilities certain relaxations are allowed):—

- (i) Calibre, with How, if applicable (not on 6-pdr. and below).
- (ii) K or AK and colour of dye.
- (iii) H or L or Weight, e.g., 35 lb. (not on 6-pdr, and below).
- (iv) The mark of the shell, i.e., type of shell, mark numeral, c.r.h. (para. 257), and T or N.T. if tracer is fitted. With Fixed Ammunition this is prefixed by the letters F.A. (not on 6-pdr. and below).
- (v) F Z D on shell (except Q.F. 2-pdr. and below) which are fuzed, serial number of fuze, Mark, date of filling, filled lot number and maker's initials. Projectiles 8-inch and above have these markings stencilled on the base as well as on the body.
- (vi) G on shell fitted with a gaine with the Number and Mark of gaine, date of filling, filling lot number, and manufacturer's initials.
- (vii) Monogram of filling station.
- (viii) Date of filling, month and year.
- (ix) L.G. or symbol as applicable on powder filled shell indicating nature of powder.
- (x) EXPL, BAG (or PEL) on shell fitted with exploders with nature and size. Lot number of exploder if of P.P. or P.A. (picric powder or picric acid).
- (xi) On plugged shell for practice, the filling is indicated :-
 - SALT Salt.
 - P.S. ... Powder substitute.
 - (H.E.S.) ... H.E. substitute,
- (xii) N for Naval Service.
- (xiii) 70/30 or other fraction on Shell filled Shellite, T.N.T./Beeswax denotes the composition of the filling.
- (xiv) SMK BOX or "S" on GREEN DISC on H.E. Shell 6-inch and below denotes shell fitted with smoke composition in box.
- (xv) U on opposite sides of the head denotes fitted with Universal Cavity.
- (xvi) R denotes Radar.
- (xvii) L or S in the breaks of the zig-zag band denotes the use of Long or Short band Radar.
- 319. The following special stencillings may be found :-
 - (i) 16 LB, on 3-inch 16 lb. projectiles.
 - ()

(11)

in three places, on all 14-inch projectiles and above, indicates position of centre of gravity; 15-inch projectiles have the horizontal lines extended round the body to assist in placing the grab; 16-inch projectiles have a grab mark indicated in addition to the centre of gravity marking; the grab marking consists of a 1-inch white band broken in three places equally spaced with the word GRAB stencilled in white in these spaces.

- (iii) A on 3-pdr. and 6-pdr. indicates annealed shell.
- (iv) projectile prepared for tracer.
- (v) fr projectile fitted with night tracer.
- (vi) projectile fitted with Mark V or later tracer.

The symbols in (iv), (v) and (vi) are applicable to shell fitted for or with Nos. 1 and 2 tracers.

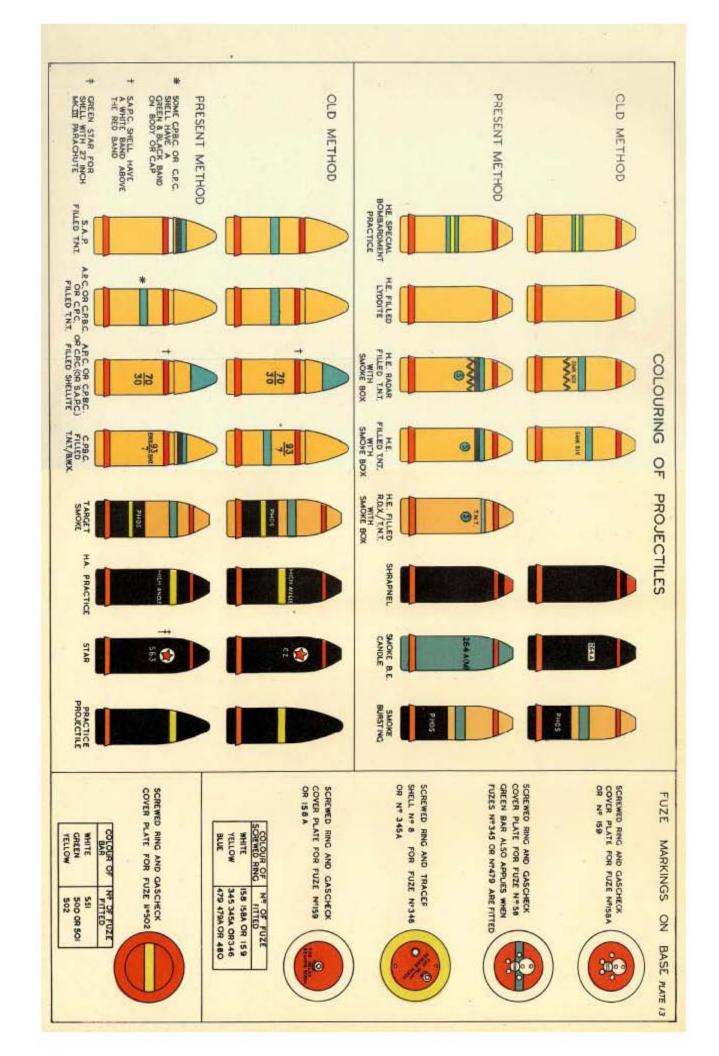
- (vii) 6 projectile fitted with tracer.
 - O number of tracer.
 - + mark of tracer.

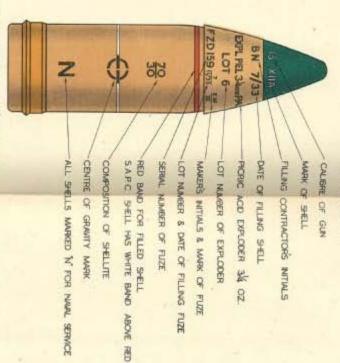
320. The following markings are applicable to shell Q.F. 2-pdr. fitted with Igniter or Tracer and Igniter:—

- (i) shell fitted with Igniter No. 1 Mk, I (long time to self-destruction),
- (ii) shell fitted with Igniter No. 1 Mk. II (short time to self-destruction).
- shell fitted with Tracer and Igniter No. 7 Mk. IV (with long time to self-destruction).
- (iv) (s) shell fitted with Tracer and Igniter No. 7 Mk. III (with short time to self-destruction).
- (v) Projectiles Q.F. 2-pdr. filled for dark ignition tracer.

321. On Star Skell :-

- (i) A red star on a white disc.
- (ii) A green star on a white disc denotes a 27-inch Mark III parachute fitted.
- (iii) A letter and number or number below the disc denotes the star composition used.





APC CACOR CARC FILED SHELL



The Spinish EXPL PEL JOHN BN 7/43 LOT 6 LOT NUMBER & DATE OF FILLING FUZE -DATE OF FILLING SHELL SERIAL NUMBER OF FUZE MAKERS INITIALS & MARK OF FUZE TRACER MARKING SHOWING SERIAL NUMBER LOT NUMBER OF EXPLODER PICRIC ACID EXPLODER 314 OZ FILLING CONTRACTORS INITIALS COMPOSITION OF SHELLITE SAP AND SAPC SHELL HAVE A WHITE BAND ABOVE THE RED BAND MARK OF SHELL CALIBRE OF GUN

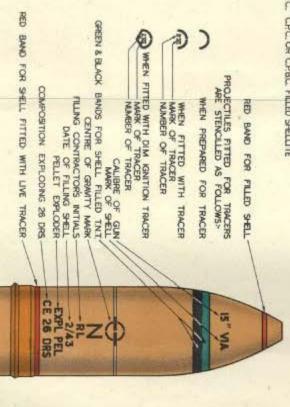
N- RED BAND FOR SHE

- CENTRE OF GRAVITY MARK

ALL SHELLS MARKED 'N' FOR NAVAL SERVICE

RED BAND FOR SHELL FITTED WITH LIVE TRACER

TYPICAL BASE FUZED SHELL
ARC CROOR CRBC FILED SHELLTE

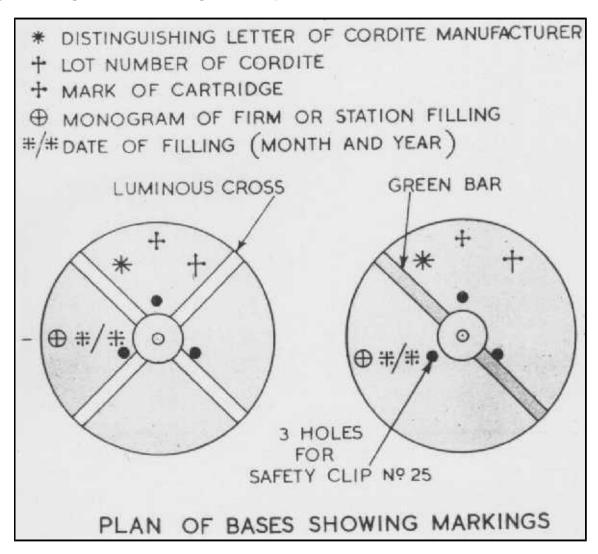


TYPICAL NOSE FUZED SHELL

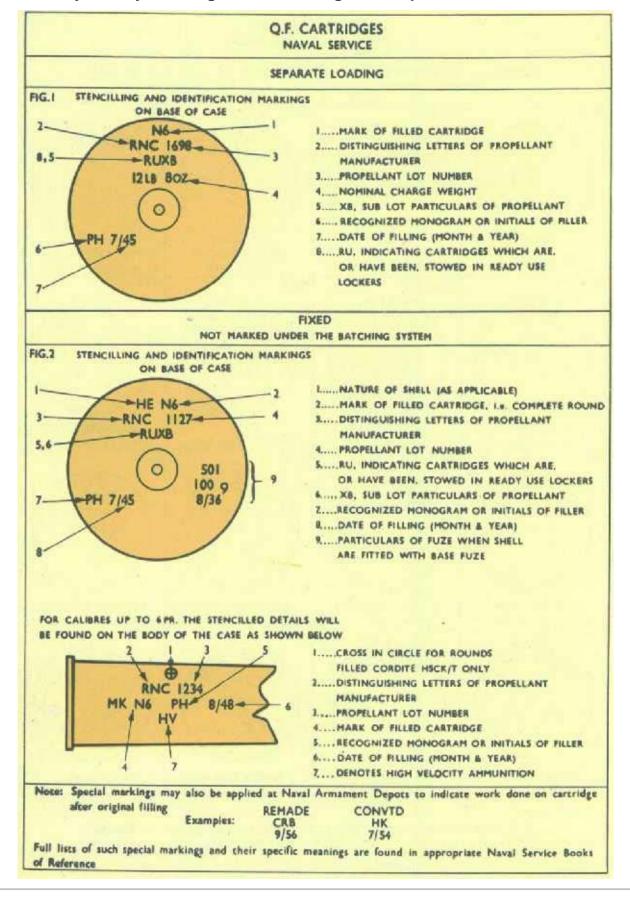
TYPICAL NOSE FUZED SHELL

HE FILLED THI

Royal Navy Cartridge Case Markings of the pre-World War II and World War II era



Royal Navy Cartridge Case Markings of the post-World War II era



Royal Navy Bag Charge Markings of the post-World War II era

