

Information Packs.

(Superseding RIPS/T56P of 23/10/45)

RADAR INSTRUCTIONAL PRODUCTION SECTION	SUBJECT: LIST OF BRITISH RADAR SETS AND THEIR USES SOURCE: Mr L.H. Bainbridge-Bell ASE Witley	CONFIDENTIAL Ref: RIPS/T56Q No. of Sheets: THREE Date: 7/1/46
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CLASSIFICATION:

WA Warning of Aircraft
 WS Warning of Surface Craft
 WC Warning Combined (aircraft and surface)
 WCH Warning combined with Heightfinding
 GS Gunnery Surface
 GA Gunnery Aircraft
 GC Gunnery Close Range
 GB Gunnery Barrage
 TI Target Indication
 INT Interrogator
 IRT Interrogator Responder Transponder
 TPD Transponder
 IFF IFF Set
 BCN Radar Beacon
 GCA Ground Control Approach
 + ... Signifies under development or experimental.

Type No	Class of Set	Where Fitted	Remarks
79/B 242	WA INT	Cruisers and above Ships fitted with types 271/2/3/5, 291; also with 277/293 when 242M is not available.	Mk. III System
242M	INT	Ships fitted with 277/293.	Mk. III System superseding 242
242P	INT	With 277 in ships fitted with 960 & 277; with 960 in ships fitted with 960 & 980	
243	INT	Ships fitted with 79/B or 281/B	Mk. III System. 243Q replaced 243 with 281/B
243M	INT	Ships fitted with 279/B	Mk. III System
243Q	INT	Ships fitted with 281/B	Mk. III System (A-band) Fitted in conjunction with 941
244	INT	Ships fitted with US type SG or SL	Mk. III System
249	-	-	Recording equipment
251M	BCN	Cruisers and above and certain light craft	
251MS	BCN	Shore Stations	
251P	BCN	Certain Aircraft Carriers	Used with "Lucero"
253	IFF	All HM Ships	Mk. III System
253P	TPD	All HM Ships	Mk. III System with coding (IFF & BCN)
253PS	TPD	Lighthouses	Mk. III System with coding (IFF & BCN)
253MW	TPD	Submarines	Mk. III System with coding (IFF & BCN)
253S	IFF	Lighthouses	Mk. III System (IFF)
255	BCN	Launched from surface ships M.L's etc.	Marker buoy for Landing operations (BCN)

Type No	Class of Set	Where Fitted	Remarks
255M	BCN	Launched from submarines	Marker buoy for Landing Operations
256	BCN	Shore Stations	Aircraft Homing (No longer to be fitted) Aircraft Homing
257/M	BCN	Carriers	
257S/MS	BCN	Shore Stations	
262(1)	GC	STAG Mountings	
262(2)	GC	CRBF Directors	
262(3)	GC	CRSI Directors	
262(4)	GC	BUSTER Mountings	
263(1)	GC	MRSI Director	
267M(1)	WC	Submarines ("T" Class)	
267M(2)	WC	Submarines ("T" & "A" Class)	
+267PW	WC	Submarines ("T" & "A" Class)	Supersedes 271P/PR
267QM	WC	Submarines ("S" Class)	
268/M	WS	Capital Ships	
268/MU	WC	Coastal Craft	
271P/PR	WS	Destroyers and below	
271Q	WS	Destroyers and below	
271QR	WS	Destroyers and below	
272P/PR	WS	Cruisers and above	
273S	WS	Shore Stations	
273P/PR	WS	Cruisers and above	Supersedes 273P/PR Supersedes 273PS Supersedes 284 For AA/Surface
273PS	WS	Shore Stations	
273Q/QR	WS	Cruisers and above	
273QS	WS	Shore Stations	
274	GS	Cruisers and above	
275	GA	Cruisers and above; certain Destroyers with Mk.VI Directors	
277/P	WS	Corvettes and above	Supersedes 277P
277Q	WS	Cruisers and above	
277A	WS	Issue to Ministry of Supply (Army use)	
277AM	WS	Issue to Air Ministry	
277F	WS	Ships set adapted for Shore Stations	
277S	WS	Fixed Naval Service ashore	
277T	WS	Mobile Naval Service ashore (vans)	
279/B	WA	See under 79/B	
281/B	WA	Cruisers and above	
281BP/BQ	WA	Cruisers and above	Being replaced by 281BP/BQ Supersedes 282M3/4 With ABU Mk.1
282M3/4	GC	Sloops and above with Bofors Mountings or Pom-Pom Dir's	
282P/P1	GC	Sloops and above with Pom-Pom Directors	
282P2	GC	Sloops and above with Bofors Mountings	
283	GB	Cruisers and Capital Ships	
283M	GB	Cruisers and Capital Ships with CPUI	
284M3/M4/P3/P4	GS	Cruisers and above, in conjunction with main armament	
285M3/M4/P3/P4	GS	Ships fitted with AA or AA' Surface Guns	
285Q	GA	Destroyers fitted with "K" DCTs only	
288	GC	AA Training Centres	For close range analysis
291/M	WC	Destroyers and below	
291U	WC	Coastal Craft	
291W	WC	Submarines	

Type No	Class of Set	Where Fitted	Remarks
293/M/P/Q +900	WC WC	Fleet Destroyers and above -	Measurement of muzzle velocity
+901X +930/931 +940	GA GS INT	Cruisers and above Ships fitted with 960	Long range system Mk.1 Shell splash sets Mk.III System ("G" - band)
941	INT	Ships fitted with 281/B/BP/BQ	Mk.III System ("G" -band); fitted in conjunction with 243Q
942	IRT	Submarines	Mk.III System: replacing 253MW
951	BCN	-	Marker beacon used with 970
952	BCN	-	Portable marker beacon used with 970/1
953	BCN	Cruisers and above, and certain light craft	Fitted in certain ships in lieu of 251M
+960/P	WA	Cruisers and above	Superseding 79 and 281 series
961	GCA	Aircraft Carriers	Modified ASV Mk.XI Set
962	GCA	Experimental	
970	WS	CCO Ships	
971/M	WS	CCO Ships	
972	WS	Selected ships only	
+980	WC	A/C Carriers	Fighter Direction set
+980S	WC	Shore Stations	Fighter Direction set
+981	WCH	A/C Carriers	Fighter Direction set
+981S	WCH	Shore Stations	Fighter Direction set
+992	WC	Experimental	Experimental Target Indication Set

OBSOLETE OR OBSOLESCE SETS

241	INT	Only one fitted (HMS Boxer)	
245	INT		
251	BCN		
251W	BCN		
252/M/P	IEF		
253S	TPD	None fitted	
256	BCN		
258	BCN		
259	BCN		
267/U	WC		
269	GS/C	None fitted	
276	WS		
279	WA		
280	WA		
286	WC		
287	WS	None fitted	
290	WC		
990	WC		
991	WS	None fitted	

RADAR INSTRUCTIONAL PRODUCTION SECTION	SUBJECT: RADAR TYPE NUMBERS AND LETTERS SOURCE: RIPS	Ref:RIPS/T101 No. of Sheets: ONE Date: 10/7/45
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1. Radar and IFF sets are distinguished by their digit numbers (except in the case of type 79) followed by one or more letter suffices.

The first digit is either 2 (early types about 1938-43) or 9 (later types after 1943.)

2. Clues to numbers

(a) 200 Series

Function of set (+ indicates unclassifiable)	First Two Digits	Numbers already allocated (other than obsolete sets) indicated by @ Last digit (0 = Obsolete)									
		0	1	2	3	4	5	6	7	8	9
Interrogators	24-		0	@	@	@	@				
Transponders	25-		@	0	@		@	@	@	@	0
X-band sets (267 also on 214 Mc/s +)	26-			@	@				+	@	@
S-band sets (except 279 on 40 Mc/s +)	27-		@	@	@	@	@	@	@		+
50 cm sets (except 281 & 286)+	28-	0	+	@	@	@	@	+		@	
(291 on 214 Mc/s; 293 on S-band +)	29-	0	+		+	0	0				

(b) 900 Series

GA sets	90-	@	@								
GB sets	91-										
GC sets	92-	@									
GS sets	93-	@	@								
Interrogators	94-	@	@	@	@						
Transponders	95-			@	@						
WA sets	96-	@	@								
WX sets	97-	@	@	@							
WCH sets	98-	@	@								
WC sets	99-	0	0								

3. Clues to letters Suffices.

Meaning	Letter Suffix
Set modified for supply to Ministry of Supply	A
Set altered from two-mast to one-mast design	B
Set with accurate ranging panel added	R
First major modification	M
Second major modification	P
Third major modification	Q
Set adapted for fixed use on shore	S
Set adapted for transportable use on shore	T
Set adapted for fitting in trawlers & coastal craft	U
Set adapted for fitting in submarines	W
First experimental models of a new type	X
Second " " " " " "	Y
Third " " " " " "	Z