

1. REPORTS. Commanding Officers are to include in their annual reports of alterations to W/T Equipment, to be forwarded in accordance with A.F.O. 1062/38 para 10, details of any error in the equipment stated hereafter as being fitted in ships and vessels under their command.

2. SUFFIX LETTERS TO TRANSMITTING SETS

TABLE I - MEANINGS OF SUFFIX LETTERS.

Group	Suffix Letter	Meaning
-	A	An extempore W/T set made to Admiralty instructions (e.g. using old title, Type 43Y).
Control System.	B	Spare letter
	C	The Central Control System (C.C.S.)
	D	The Centralised W/T System (C.W.S.)
Type of Power Supply.	No letter.	Fed through own machines off ship's D.C. mains.
	E	Fed from batteries and available when main power fails.
	F	Fed from standard A.C. supply.
	G	Spare Letter.
Portions of Sets.	No letter.	The whole set is fitted (e.g. using old title, Type 51).
	H	The H/F portion of the set is fitted (e.g. using old title, Type 51H).
	J	The V.H/F portion only of the set is fitted. (No example as yet).
	K	Spare letter.
	L	The L/F or M/F portion of the set is fitted (e.g. using old title, Type 51L).
Major Modifications.	No letter	The original standard set.
	M	The set after the first Major Modification (e.g. Type 36M).
	P	The set after the second Major Modification (e.g. Type 36P).
	Q	The set after the third Major Modification.
		<u>Note:-</u> A Major Modification is defined as a modification necessitating new drawings and establishment of stores.

TABLE I - MEANINGS OF SUFFIX LETTERS (Contd.)

Group	Suffix Letter	Meaning
Miscellaneous Descriptions.	R	The set has R/T <u>fitted</u> .
		<u>Note</u> :- The use of this suffix with a set capable of R/T, such as Type 60, implies that the set is completely fitted for R/T transmission.
	S	A ship set adapted for use ashore (e.g. Type 60S)
	T	A Transportable Edition of a set which is used for other purposes (e.g. Type 52ERT)
Type of Ship.	No Letter.	(a) Small ships <u>rack mounted</u> (80 to 500 tons displacement), or
		(b) A set which is fitted only in one "type of ship" group (e.g. Type 48 only fitted in cruisers and above), or
		(c) Submarines.
	U	M.T.B's, Motor Boats, etc. (below 80 tons) <u>non rack mounted</u> .
	V	Leaders to small ships (500 to 3,000 tons displacement).
	W	Cruisers and above (over 3,000 tons).
Experimental Sets.	X	1st Experimental Set.
	Y	2nd Experimental Set (i.e. 1st Experimental Set after Major Modifications).
	Z	3rd Experimental Set (i.e. 2nd Experimental set after Major Modifications).

Note:- The letters I, N and O are not employed to avoid possible confusion with I, M and 0.

NOMENCLATURE OF TYPE 60 SETS USING A D.C. POWER SUPPLY

<u>Old Title</u>	<u>New Title</u>	<u>Where used</u>
60 E	60 E	Emergency Set
60	60 EM	Tugs, etc.
60 S	60 ES	Shore W/T Stations
60 T	60 ET	Transportable Set
60 F	60 EU	M.T.B's, etc.
60 A	60 EV	Flotilla Leaders, 2nd W/T Office.

NOMENCLATURE OF TYPE 60 SETS USING AN A.C. POWER SUPPLY

<u>Old Title</u>	<u>New Title</u>	<u>Where used</u>
60 D	60 D	C.W.S. Ships
60 S	60 FS	Shore W/T Stations
60 B	60 FV	Flotilla Leaders and Destroyers F/C, and 2nd Office Sets.

NOTE:- Letter "R" may be added to denote that R/T is fitted.

3.

<u>Type No. o Set</u>	
<u>Old Title</u>	<u>New Titl</u>
(1)	(2)
10	10
14	14
20 to 29	
30	30
30A	30A
30P	30P
34MA	34M
34MB	34P
35B	
	35M
36M	36M
36B	
37	37
37B	

TRANSMITTING SETS

Type No. of Set		Panels or Units	Standard Frequency Range in Kc/s	Reliable L/P Transmitting Range in Miles	Remarks
Old Title	New Title				
(1)	(2)	(3)	(4)	(5)	(6)
10	10	Spark Transmitter	375-1400	120	Obsolete
14	14	Arc Transmitter	100-190	150	Obsolete
20 to	29				Shore Station Trans ^{rs} . vide Sect.J.
30	30	Army "C Mark 1" Valve Transmitter	150-426	30	Obsolete. To be replaced by type 52ERT (A.F.O. 1998/37).
30A	30A	Army "C Mark 1" Valve Transmitter with H/F attachment	150-460 3000-6000	30 -	Obsolete. To be replaced by type 52ERT (A.F.O. 1998/37)
30P	30P	Army "A Mark 2" Valve Transmitter	750-2000	6	Obsolete. Being replaced by type 53.
34MA	34M	M/F transmitter H/F transmitter Transmitter 6D*	100-1364 2700-14000 75-750	175 - 12	* Only if Type 34M is fitted as Main W/T set.
34MB	34P	M/F transmitter H/F transmitter Transmitter 6D*	100-1364 2700-14000 75-750	175 - 12	* Only if Type 34P is fitted as Main W/T set.
358		M/F transmitter H/F transmitter L/P transmitter	60-500 4000-20000 100-1700	500 - 40	
	35M	M/F transmitter H/F transmitter 3F L/P transmitter	60-500 4000-20000 100-1700	500 - 20	L/P Panel ex Type 49.
36M	36M	M/F transmitter H/F transmitter Spark transmitter	60-500 3000-20000 66-500	600 - 120	
368		M/F transmitter H/F transmitter L/P transmitter	77-500 4160-17090 77-500	800 - 80	Obsolete. Being converted to 36M.
37	37	3K M/F trans. Transmitter 4H	100-1364 375-1700	350 8	Obsolescent. Being converted to type 37M.
378		3KA M/F transmitter 3KS H/F transmitter Transmitter 6F Transmitter 4H	100-1364 4000-26000* 100-900 375-1700	350 - 100 8	Obsolete H/F Panel, being converted to Type 37M. * The lowest frequency of sloops fitted with old patt. attachment is 5700 kc/s.

TRANSMITTING SETS (Contd.)

Type No. of Set		Panels or Units	Standard Frequency Range in Kc/s	Reliable L/F Transmitting Range in Miles	Remarks
Old Title	New Title				
(1)	(2)	(3)	(4)	(5)	(6)
37M	37M	3KA M/F transmitter 3KM H/F transmitter Transmitter 6F Transmitter 4H*	100-1364 3000-20000 100-900 375-1700	350 - 100 8	* Transmitter 6D is fitted in lieu of 4H in sloops. ("Shoreham" Class and later).
37MA	37P*	3KA M/F transmitter 3KM H/F transmitter Transmitter 6F Transmitter 4F	100-1364 3000-20000 100-900 150-12500	350 - 100 50-100	* Additional suffix "R" if fitted with R/T for low power only.
38M	38M	3QA M/F transmitter 3KM H/F transmitter 3Q L/P transmitter Transmitter 6F Transmitter 6D	100-1364 3000-20000 100-1364 100-900 100-670	350 - 80 100 12	Destroyers fitted as Leaders only.
	38P*	3QA M/F transmitter 3KM H/F transmitter Transmitter 6F Transmitter 4T	100-1364 3000-20000 100-900 150-12500	350 - 100 50-100	* Additional suffix "R" if fitted with R/T for low power only. Destroyers fitted as Leaders only.
38S		3QA M/F transmitter 3KS H/F transmitter 3Q L/P transmitter Transmitter 6F Transmitter 6D	100-1364 4000-26000 100-1364 100-900 100-670	350 - 80 100 12	Destroyers fitted as Leaders only. Obsolete H/F panel being converted to type 38M.
39X	39X	3PX M/F transmitter PLX combined L/P M/F transmitter and H/F transmitter	100-500 100-500 7500-16700	600 150 -	Submarines "Oberon" and "Otway" only.
40X	40X	Valve transmitter	140-375	8	Obsolete
43	43	Transmitter 4G Transmitter 6E	1700-2400 1700-2400	20 10	Obsolete. Being replaced by type 51H or type 52H.
43A		Transmitter 4G and stabiliser Transmitter 6E	1700-2400 1700-2400	20 10	Obsolete. Being replaced by type 52H. Crystal control on (1875. 2000

TRANSMITTING SETS (Contd)

Type No. of Set		Panels or Units (3)	Standard Frequency Range in Kc/s (4)	Reliable L/F Transmitting Range in Miles (5)	Remarks (6)
Old Title (1)	New Title (2)				
43C	43C	Transmitter 4G and stabiliser	1700-2400	20	Obsolete. "Warspite" only. Being replaced by type 52CH. Crystal control on (1875, 2000 Kc/s. (2150, 2333
43Y	43Y	Valve transmitter	1700-2400	20	Extempore set fitted in C.R.R.
44	44	Transmitter 4L Transmitter 4H	270-1400 375-1700	60 8	Obsolete. Being replaced by type 60. Destroyers fitted as Leaders, 2nd offices only.
45	45	Transmitter 4K	500-1400	30	Obsolete. Being replaced by type 52H in ships with A.C. supply outfits. F/C set in Cruisers.
46A	46M	3N M/F transmitter 3N H/F transmitter Spark transmitter 3R Transmitter 4R	100-500 3000-25000 100-666.7 130-200	400 - 100 5	Submarine only. In "Sturgeon" and "Swordfish" panels and boards are 3N2.
46X	46X	M/F transmitter H/F transmitter V.H/F transmitter	100-750 7500-16700 18750-20000	100 - -	Obsolete. Submarine "H43" only.
46Y	46Y	M/F transmitter L/P transmitter H/F transmitter Transmitter 4R	100-670 100-670 6700-25000 130-200	400 80 - 5	Obsolete. Submarine "L23" only.
47B	47M	M/F transmitter H/F transmitter L/P transmitter Spark attachment Transmitter 4R	100-500 3000-20000 100-500 270-670 130-200	600 - 100 100 5	
47A	47P	M/F transmitter H/F transmitter L/P transmitter Spark attachment Transmitter 4R	100-500 3000-25000 100-500 270-670 130-200	600 - 100 100 5	
48 & 48Y	48 48Y 48C	M/F Master & L/P transmitter M/F transmitter H/F transmitter Spark transmitter	60-500 60-500 3000-16500 70-500	100 800 - 100	Note. Type 48C. Same details as for type 48 with two panels added for coupled tunable aerial circuits.

TRANSMITTING SETS (Contd.)

Type No. of Set		Panels or Units (3)	Standard Frequency Range in Kc/s (4)	Reliable L/F Transmitting Range in Miles (5)	Remarks (6)
Old Title (1)	New Title (2)				
48X	48X	Combined M/F and H/F transmitter L/P M/F (& H/F master) Spark Attachment	60-500 3000-16500 60-500 70-500	800 - 100 100	"Dorsetshire" only.
49 & 49Y*	49 49Y* 49C	M/F transmitter H/F transmitter L/P transmitter Transmitter 6F	100-500 3000-20000 100-1700 100-500	450 - 20 100	*"Duncan" only. Note. Type 49C. Same details as for type 49 with two panels added for coupled tunable aerial circuit, and separate A.C. supplies for H.T. and filaments of the main set as in type 49M.
49A	49M*	M/F transmitter H/F transmitter Transmitter 4T Transmitter 6F	100-500 3000-20000 150-12500 100-500	450 - 50-100 100	*Additional suffix "R" if fitted with R/T for low power only.
50	50	M/F transmitter H/F transmitter L/P transmitter	100-1700 3000-18500 100-1700	250 - 40	
50A	50M*	M/F transmitter H/F transmitter L/P transmitter Transmitter 4T	100-1700 3000-18000 100-1700 150-12500	250 - 40 50-100	*Additional suffix "R" if fitted with R/T for low power only.
51	51	Transmitter 4PA Transmitter 5PA	150-1800 1670-13600	50 -	Listening through impossible.
52H	52H	Transmitter 5Q	900-13500	-	
52T	52ERT	Transmitter 4Q Transmitter 5Q	150-1500 900-13500	50 -	Transportable set. Receiver B19 and R/T attachment are incorporated.
53	53	Portable T-R Unit 4S	3000-6000	12	Portable set.
55	55	M/F L/P transmitter H/F transmitter	100-1400 3000-18000	50 -	
	57	High Power H/F transmitter	3000-20000	-	C.W.S. Ships, Cruisers and above.
	59	M/F Transmitter	100-500	500	C.W.S. Ships, cruisers and above.
	60	Transmitter 4T	150-12500	50-100	

TRANSMITTING SETS (Contd.)

Type No. of Set		(3)	Standard Frequency Range in Kc/s	Reliable L/F Transmitting Range in Miles	Remarks
Old Title (1)	New Title (2)				
72	72				See Confidential Handbook.
73X	73X				See Confidential Handbook,
74X	74X				See Confidential Handbook.
75	75	T-R Unit 7R	50000-75000	2	
81	81	Valve transmitter	750-1500	4	Obsolete.
83	83	Transmitter 8H	2900-4200	15	Obsolete.
5C	5C	Transmitter 5C	4290-18000	-	Attachment for types 2-16, 4-15 and 37. Obsolete.
5D	5D	Transmitter 5D	100-200 4000-1200	4 -	Attachment for type 14. Obsolete.
Marconi TW12A, TW12C.	Marconi TW12A, TW12C.	Marconi transmitter type TW12	375-500 1200-3000	65	
Marconi TW12B	Marconi TW12B	Marconi transmitter type TW12	375-500 1200-3000	100	
Marconi 2KW		Long wave Panel Short wave transmitter Emergency Spark transmitter	375-500 (*5300-7185 (7500-8695 (10240-13100 (15960-17860 500 only		Fitted in R.F.A's of over 2000 tons. *The standard Marconi set has a range frequency 5300-7185 Kc/s, but R.F.A's are fitted with coils giving a range of 4950-6750 Kc/s to include Med. H/F (1937).

TRANSMITTING SETS (Continued)

The following types of Commercial W.T. Sets are fitted in ships requisitioned during the war. THIS REFERS TO WW I OF COURSE

Makers	Type No.	Frequency Range in KC/S	Remarks
Marconi's	381	375-500	
Marconi's	386	515-365	
"	386A	515-365) 125-160)	
"	388	375-500) 125-166)	
"	398/9	7500-18000	
"	376	7500-18750	
"	506	375-500) 1304-2730)	
"	517	1500-2610	
"	518	375-500	
"	527	1500-2500	
"	528	375-500	
"	533	375-500	
"	550	5300-17860	
"	MC13A	115-500	
"	558	500	Emergency Set.
International Marine Radio Co.	M6B	5454-18750	
"	M7B	375-500	
"	M9	500	Emergency Set.
"	M23E	160-1001) 365-515) 5450-17750)	
"	T.S.1.A.	461-545) 1200-2727)	
"	T.S.1.B.	368-517) 1200-2727)	
"	T.S.2	428-3750	
"	M100A	375-500	
"	M100B	8200-8900) 12250-13300)	
"	2705	375-500) 1500-3400)	
Siemens	202	375-500) 1500-3000)	
	222A	500	
	322A	1500-2500) 500)	
	402	1500-2500) 375-500)	
	422	1500-3000) 1500-3000)	
Gambrell's.	131A	1500-3000	
	350	6250-17650	
	538	375-500	