

B.R. 222 - 1932

NOTES ON W/T SETS

This edition was issued to the Royal Australian Navy, Garden Island, in June 1932 and updated until September 1945. It was still in RAN circulation in 1983.

Pages for obsolete and deleted items were removed from the main binder and placed at the back of the book and the relevant listing in the index was crossed out. These pages have been replaced in order in the book, to maintain continuity but you can readily see which were obsolete. Unfortunately, some pages were missing altogether.

Additionally any update sheets have been placed in the book immediately following the older sheet - each later sheet has the date marked at the top.

The book is 70 years old, so the pages are faded and yellowed and the roneoed print is faint but it is all readable.

Due to the sheer size of the book, it has been split into two sections – BR222-1932-Part 1 and BR222-1932-Part 2.

Produced: 1/Feb./2002/cm

INDEX

The book is divided into Sections and Sub-sections, each with an identification letter/number. These are cross-referenced in the following Index.

B.R. 222 – 1932 - PART 1

Page No.	Section No.	Description
Section A – Miscellaneous		
4	AA1	Sub-section AA
7	AA2	Contents
10	AA3	Distribution List
11	AA4	Introduction
15	AA6	Corrections
37	AB1	Sub-section AB
38	AB2	System of Drawing Circuits
40	AB4	Colour Systems
41	AB5	Symbols
	AC	Sub-section AC
		Nomenclature [Indexed but not issued]
	AD	Sub-section AD
		Stores [Indexed but not issued]

Section C – Receivers

49	C1	Receivers
50	C21	Tuner A50, Amplifier M50
60	C31	Tuner Amplifier B50
72	C43	Receiver B28 [Marconi CR100/4]
91	C62	Tuner Amplifier B19
98	C69	Receiver B29 [Marconi CR200]

Section DJ – W/T Control Circuit Exchange

109	DJ1	W/T Control Circuit Exchange
111	DJ3	General Description
113	DJ5	Transmitter Control Circuits & Indicating Lamps, Details
115	DJ7	C.C.O. Control Circuits, Details
115	DJ7	Remote Control Circuits, Details
116	DJ8	15 volt DC Supply to “Operator’s Speech Circuit”, Details

Section G – Wavemeters & Oscillators

120	GA1	Section G – Wavemeters & Oscillators
121	GA2	Wavemeter Outfit GN (Wavemeter G73)
134	GC1	Sub-section GC – Oscillators
135	GC9	Oscillator G35
134	GD1	Sub-section GD – Wavemeters in Panels
140	GD5	Wavemeter G53
141	GD6	Wavemeter G56
142	GD6	Wavemeter G57
144	GD11	Wavemeter G61, G62

Section L D/F

154	LA1	Sub-section LA – D/F Outfits
	LA2	General Notes [Missing]
155	LA13	D/F Outfit FM7
169	LA27	D/F Outfit FM11 & 12
180	LD1	Sub-section LD – Semi-circular Correctors
181	LD2	Semi-circular Corrector S61

Section M - Auto-starters, Hand Starters & Machines

182	MA1	Sub-section MA – Auto-starters
183	MA2	Automatic Starter size W
185	MA4	Automatic Starter size X
187	MA6	Automatic Starter size Y
189	MA8	Automatic Starter size Z
191	MB1	Sub-section MB – Machines & Hand Starters
192	MB2	Machines
196	MB6	Hand Starters

Section N – Batteries & Charging Circuits

197	NA1	Sub-section NA - Batteries
198	NA2	Batteries
199	NB1	Sub-section NB – Battery Outfits
200	NB2	List of battery Outfits
201	NB3	List of Charging Boards and Battery Outfit BW
202	NB4	Battery Outfit BA, BM, BN, BV
204	NB6	Battery Outfit BD, BG
205	NB7	Battery Outfit BC
206	NB8	Battery Outfit BE, BP
207	NB9	Battery Outfit BF, BK, BS, BU
208	NB10	Battery Outfit BJ, BX, BY
209	NB11	Battery Outfit BT, BZ
210	NB12	Battery Outfit BQ
211	NB13	Charging Arrangements for 100 Volt batteries
212	NB1	Sub-section NB – Battery Outfits [dated 1/12/44]
213	NB2	List of battery Outfits [dated 1/12/44]
215	NC1	Sub-section NC – Reverse Current Switches
216	NC2	Reverse Current Switches
217	ND1	Sub-section ND – Central Battery Wiring
218	ND2	Central Battery Wiring
220	NE1	Sub-section NE – A.C. Supply Outfits
221	NE2	A.C. Supply Outfits (General)
	NE12	A.C. Supply Outfit DE [Missing]
224	NE15	A.C. Supply Outfits – Rectifiers

Section R - Transmitters

228	RA1	Transmitters
229	RA2	D.C. Supply to Main Office
232	RB1	Sub-section RB – Miscellaneous Notes
233	RB2	Tuning Aerial Circuit of H/F Transmitters
234	RB3	Frequency Control Panel for Type 57 D
240	RB9	Definition of Standard terms
241	RB10	Master Oscillator Unit (with PPC) for Type 57 DM/DMR
242	RC1	Sub-section RC
243	RC2	Type 57 D/DR
269	RC28	Type 57 DMR
295	RM1	Sub-section RM
296	RM2	Type 48
329	RN1	Sub-section RN
330	RN2	Type 49
348		[last page of Part 1]

B.R. 222 – 1932 - PART 2

Page No.	Section No.	Description
Section R – Transmitters [continued]		
1	RQ1	Sub-section RQ
2	RQ2	Type 52 FH/FHV/CFH
	RQ16	Type 89/M [SCR 522, Missing]
16	RQ33	Type 89/M [part only]
18	RR1	Sub-section RR
19	RR2	Type 53
26	RS1	Sub-section RS
27	RS2	Types 60E/EM/ER/EMR
45	RS20	Frequency Multiplier Unit for Transmitter 4T
53	RV1	Sub-section RV
54	RV2	Type 66 [Army Wireless Set No.18]
64	RW1	Sub-section RW
65	RW2	Type TBS
83	RW20	Type TBL
106	RW42	Type TAJ
118	RW54	Types TBM & TBK
148	RX1	Sub-section RX
149	RX2	Transmitter T1083 Receiver R1082
164	RY1	Types TW12A and TW12B
Section S – V.H/F Transmitters		
181	S1	V.H/F Transmitters
182	S2	Type 87 Transmitter [T1131]
198	S18	Type 87 Receiver [R1132A]
204	S24	Type 87 Power Unit [Power Supply Unit Type 3]
206	S26	Type 87 Crystal Monitor [Crystal Monitor Unit Type 4]
	S31	Type 87M [Missing]
Section W – Buzzer Outfits and R.C. Circuits		
211	W1	Buzzer Outfits and R.C. Circuits
212	W2	Buzzer Outfits
213	W3	Vibrating Buzzers
214	W4	Valve Buzzers
215	W5	Instructional Buzzers & R.C. Circuits

Section Z – Care and Maintenance

216	Z1	Care and Maintenance
217	Z2	General Information
218	Z3	Transformers, Condensers & Cables
219	Z4	Cells & Batteries
220	Z8	Machines

INSTRUCTIONS FOR THE CENTRALISED W/T SYSTEM (C.W.S.)

227	AA1	Instructions for the Centralised W/T System (C.W.S.)
228	BA1	Sub-section BA – General Description of the Centralised System
230	BA3	Objects of C.W.S.
231	BA4	Features of C.W.S.
232	CD1	Sub-section CD – Motor Alternator Sets & Automatic Voltage Control Equipment
233	CD2	Metropolitan Vickers Motor Alternator Sets
237	CD6	Metropolitan Vickers Voltage regulator Type VPB
241	DA1	Sub-section DA – General Description of the System
242	DA2	W/T Control Circuits
243	DA3	Salient Features of the System
243	DA3	Control Circuit Equipment
244	DA4	W/T Control Unit
244	DA4	W/T Portable Control Unit & W/T Control Unit (F/C)
244	DA4	Master Control Unit
245	DA5	Control Circuit Exchange
245	DA5	Local Control Switch Unit
245	DA5	Selector Unit & Associated Apparatus
245	DA5	Basic Control Circuits
247	DA7	Keying Circuit
247	DA7	Dialling Circuit
247	DA7	Headphone Circuit
249	DA9	General Arrangement of Control Circuits
249	DA9	Local Control & Emergency Remote Control Circuits
252	DA12	Operator's Speech Circuits
252	DA12	Automatic Line Clearing Circuit
253	DA13	R.C.O. Control Cables
253	DA13	Indicating Lamps & their Functions
255	DA15	R/T Control (Microphone) Circuits
255	DA15	Microphone Exchange
256	DA16	Auto (H/S) Control Circuits
259	DA19	Check Undulator
259	DA19	Direct Control
262	DA22	Aircraft Control
263	DB1	Wavechange & Wave Setting Organisation
264	DB2	Description and Use of Wave-Indicating Tallies
267	DC1	Sub-section DC – Dialling Instructions
268	DC2	Instructions for Dialling When Controlling a Transmitter Fitted with Selector unit, Design "A"

276	DD1	Sub-section DD – W/T Control units
278	DD3	W/T Control Unit Detailed Description
282	DE1	Sub-section DE – W/T Portable Control Unit & W/T Control Unit (F/C)
285	DE4	W/T Portable Control Unit Detailed Description
	DE7	W/T Control Unit for (F/C) Detailed Description [Missing]
288	DF1	Sub-section DF – Master Control Unit
289	DF2	Detailed description of the Master Control Unit
297	DH1	Subsection DH – R/T Control Units & Moving-Coil Microphones
299	DH3	Detailed description of R/T Control Unit
302	DH6	Detailed description of Moving-Coil Microphone
303	DK1	Sub-section DK – Microphone Exchange
305	DK3	General Description
305	DK3	Circuit & Arrangement of Exchange Panel
309	DL1	Sub-section DL – Local Control Switch Unit
310	DL2	Local Control Switch Unit
316	DM1	Sub-section DM – Selector Units Wave Change Orders & Control Circuit Rectifier
317	DM2	Introductory
319	DM4	Selector Unit General Description
319	DM4	Control Circuit Rectifier General Description
320	DM5	Wave Change Order Indicator General Description
322	DN1	Sub-section DN – Selector Unit Associated Equipment & Circuits Outline Description
324	DN2	Introductory
324	DN2	Magnetic Switches
326	DN4	Signalling Relay
326	DN4	Tune-Test Switch Unit
328	DN6	“P” & “Q” Circuits
328	DN6	Keying Circuits
330	DN8	Dialling Circuits
333	DN11	D/F Safety Circuits
335	DN13	Types of Relays Employed
335	DN13	Circuit Diagrams Method of Description
339		[last page of Part 2]
