WIRELESS for the WARRIOR

Pamphlet Series

No. 6 Wireless Set No. 19 spare valves cases

Cover and layout: Louis Meulstee.

Cover illustration: Wireless Set No. 19 spare valves case Type 2B. (Photo Jan Poortman, PA3ESY).

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About this publication.

Spare valves cases were essential parts of British, Commonwealth and USA manufactured Wireless Set No. 19. This pamphlet shows the two main types with versions and variations, and related spare valves cases. In the appendix is a list with all currently known British spare valves cases. A small selection of affiliated Canadian spare valves cases were added at a later stage.

The Pamphlet Series.

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Aug. 2022

Introduction

A number of years ago the late Bob Warner sent by post an envelope containing photographs taken from a rare Wireless Set No. 19 Mk.I spare valves case.

With the intention to put these photos on the WftW website, they were unfortunately mislaid in a wrong folder and fell in oblivion.

At a recent spring cleaning these were unearthed, and as can be seen in the photos on page 6, this type of spare valves case was considerably larger than the later more compact cases, believed to be similar to that of Reception Set R107.

When looking at the later issued WS No. 19 spare valves cases, it can be concluded that the *Wireless Set No. 19 Case Spare Valves, ZA 3104*' (see page 7) for the British Mk.II and Mk.III set was the standard model on which all later versions, manufactured in Canada and the USA, were based. Still later issued versions *'Case Spare* *Valves No.* 4*G*', (with variations '*No.* 4*GT*' and '*No.* 4*G Mk.*1/1') were issued for use with either WS No. 19 and WS No. 22.

For ease of recognition only, the two main types of No. 19 Set spare valves cases with their variations were designated Type 1 and Type 2.

In this WftW Pamphlet No. 6 the versions and variations of Wireless Set No. 19 spare valves cases are shown, along with associated spare valves cases of Wireless Sets No. 19 High Power, No. 22 and No. 62.

For ease of recognition only, the two main types of No. 19 Set spare valves cases were designated Type 1 and Type 2 (with variations 2A to 2E).

Type 2D and 2E were basically similar to Type 2A with the exception of a different VAOS number, plan of base and locking catch. Spares valves case Type 2 was also used with many other sets, known as the 'Case Spare Valves No. 4' series; these were not included, but only mentioned in Appendix 2.

Only a relative small number of spare valves cases could be examined in detail. Observed was that some had been refurbished or not having an original (sponge rubber or metal base) valves container. This was at the initial stages of investigation and was rather confusing.

The explanatory text of this WftW Pamphlet was kept to a minimum, considering that a single illustration usually tells more than an extensive and long winded description.

In Appendix 1, the most common WS No. 19 spare valves cases Type 2 variations A to E were listed.

For ease of reading, meant as an aid to the rather extensive number of details, repeating description of some facts and items in this WftW Pamphlet will be encountered.

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List of Wireless Set No. 19 (and related) spare valves cases.

Туре	Associated Wireless Set	VAOS No.	Description/Designation	Details
1	WS No. 19 Mk.I	N.I.V.	Wireless Sets No. 19 Mk.I Cases Spare Valves	Page 6
2A	WS No. 19 Mk.II/III (British)	ZA 3104	Wireless Set No. 19 Case Spare Valves, ZA 3104	Page 7
2B	WS No. 19 Mk.II/III (Can)	N.I.V.	Wireless Set No. 19 Case Spare Valves.	Page 8/9
2C	WS No. 19 Mk.II/III (USA)	N.I.V.	Wireless Set No. 19 Case Spare Valves.	Page 10
2D	WS No. 19/22	ZA 22935	Case Spare Valves No. 4G.	Page 11
2E	WS No. 19/22	ZA 26925	Case Spare Valves No. 4GT.	Page 11
2E	WS No. 19/22	ZA 26925	Case Spare valves No. 4G Mk.I/I	Page 11
	Related Wireless Sets			
2E	WS No. 62 (early version)	ZA 26925	Case Spare Valves No. 4GT.	Page 11
2D	WS No. 62 (post war)	ZA 28125	Case Spare Valves No. 4K.	Page 12
2D	WS No. 22 (initial issue)	ZA 14041	Case Spare Valves No. 4C.	Page 12
2D	Amplifier RF No. 2	ZA 10418	Case Spare Valves No. 5.	Page 12
n.a.	WS No. 19 Mk.II (Aust)	ZAA 4135	Wireless Set No. 19 Mk.II (Aust) Case Spare valves	Page 12
n.a.	WS No. 9 (Can)	N.I.V.	Wireless Set (Canadian) No. 9 Case Spare Valves.	Page 16
n.a.	WS No. 19 HP (Can)	N.I.V.	Amplifier WS No. 19 Case Spare Valves and Parts.	Page 16
2B	WS No. 29 (Can)	ZA/C2114	Cases, Spare Valves, No. C2	Page 16

Notes:

- For ease of recognition only, the two main spare valves case types in this WftW Pamphlet', issued with WS No. 19, were designated Type 1 and Type 2, the latter subdivided into Types 2A to 2E.

- The steel case of all variations of Type 2 were almost identical in size (14.5x15x17cm), though their construction differed.

- 3 versions of catches were noted; the locking swivel catch had 3 variations.

- The sponge rubber valves container was primary fitted in Type 2A.

- The contents of spare valves cases Type 2A to C was 15 valves.

- Type 2D and 2E were universal spare valves cases and could be used with either Wireless Sets Nos. 19 or 22. These contained only 10 valves, (9 when used with WS No. 22), also known as No. 4G, No. 4GT and No. 4 Mk.I/I.

- Printed on white cloth and attached at the backside of the lid, was the 'Plan of Case', identifying the location of valves. In the later issued Canadian Type 2B only, it was named 'Plan of Base'.

Valve type VAOS	Alternative Commercial	e valve de _{Army}	- ,,		Type 2D-E valves	List of valves types with alternatives and number
ZA 5699	6K7G		VT-85	6*	3	used in Wireless Set No. 19
ZA 5305	6B8G		VT93-A	1	1	spare valves case Type 2.
ZA 5307	6K8G		VT-167-A	2	1	
ZA 3496	807	ATS 25	VT-100A	1	1	* Early USA manufactured
ZA 3056	6H6, EB 34	ARDD 5	VT-90	1	1	cases had 2 VT-232 valves and 5 VT-85, which was
ZA 3058	EF 50	ARP 35	VT-250	1	1	later brought in line with
ZA 5306	6V6G	ARP 32	VT-107B	2	1	cases made in the UK and
ZA 3055	E1148	CV 6	VT-232	1*	1	Canada.

Acknowledgements:

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Abbreviations/definitions used in this Pamphlet:

V.A.O.S. = Vocabulary of Army Ordnance Stores.
N.I.V. = Not In vocabulary.
DAD = Department of Defence (Australia).
WS = Wireless Set.
Mfg = manufacturer
'Plan of case' = the printed on white cloth valves contents which was attached at the backside of the lid.
n.o.s. = new old supply.

References

- Working Instructions Wireless Set No. 19 Mark II (as manufactured in Canada and the USA), Ref. No. PC 90772C-195), July, 1942.
 Working Instructions Wireless Set (Canadian) No. 19
- Mark III, Ref. No. RCA 113923-1, WO Code 18996, n.d. - Wireless for the Warrior, Volume 2, L. Meulstee, 1998, GC Arnold Partners, Dorset, ISBN 1898805 10 5.

Constructional details of WS No. 19 spare valves case Type 2.

Locking and spring catches on spare valves case Type 2.



Locking swivel catch **Version 1A** was fitted on all the British manufactured No. 19 Set valves cases Type 2A and 2D. It can easily be recognised by the use of a roundhead screw.



Locking swivel catch **Version 1B** was primarily fitted on spare valves cases made in the USA Type 2C and also on early version of the Canadian Type 2B. It differed slightly from the British model in its construction and the use of a rivet.



Locking swivel catch **Version 1C** was fitted on Australian No. 19 Set spare valves cases. The construction differed from the previous models, with as recognition items a small stud on the handle and the use of a rivet.

Spring catch **Version 2** was fitted on Canadian produced spare valves cases Type 2C. Its construction was simple and required less labour and material.



Locking catch **Version 3** was fitted on tropicalised Type 2E British spare valves cases No. 4GT and No. 4G Mk.I/I.



IN SIDE

ARP35

ATS25

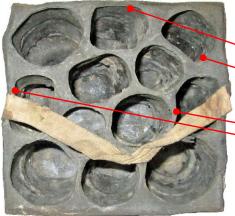
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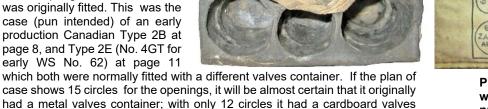
Sponge rubber container in spare valves case Type 2.

When identifying a spare valves case Type 2 and finding a sponge rubber valves container, it is not always certain that it was originally fitted.

Helpful will be the plan of case on the inside of the lid. When this drawing shows four truncated flattened openings on the top and right hand side, it is almost certain that a sponge rubber container was originally fitted. This was the case (pun intended) of an early production Canadian Type 2B at page 8, and Type 2E (No. 4GT for early WS No. 62) at page 11

container.





Plan of case Type 2A with manufacturer's number PC64036.

6880 4530

145690

6K

6KBC

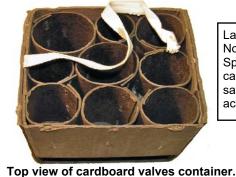
A530

CV6

ZACVE

OF CASE

Cardboard container in spare valves case in Type 2D and 2E.



Later issued spare valves cases Types No. 2D and No. 2E (also known as Case Spare Valves No. 4G and No. 4GT had a cardboard valves container, believed for saving rubber in war economy. It could accommodate only 12 valves.

Side view of cardboard valves container showing bottom valves positions.



Type 1 WS No. 19 Mk.I spare valves case.







'Wireless Sets No. 19 Mk.I Cases Spare Valve' (Type 1, left) compared to later issued No. 19 Set spare valves cases 'Wireless Set No. 19 Case Spare Valves, ZA 3104' (Type 2A centre) and 'Case Spare Valve No. 4G Mk.1/1' (Type 2E right).

At the bottom of 'Wireless Sets No. 19 Mk.I Cases Spare valves' was a wooden base plate on which was mounted a wooden platform where valve holders were fitted to insert the spare valves. The less taller valves were located on additional wooden platforms.

A felt pad in the lid kept the valves in position. The top inside of the case had a raised edge. It is believed that the metal case and general construction of the contents was similar to the spare valves case of Reception Set R107.

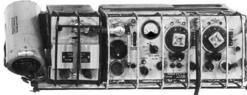


Internal view of 'Wireless Sets No. 19 Mk.I Cases Spare Valve'. The wooden base with valve holders was permanently fitted to the bottom of the steel case.



General view of WS No. 19 Mk.I spare valves case with all valves in position.

Pictorial overview of various models of Wireless Set No. 19.



WS No. 19 Mk.I British



WS No. 19 Mk.II Canadian



WS No. 19 Mk.II British





WS No. 19 Mk.III Canadian

WS No. 19 Mk.II USA

Type 2A WS No. 19 spare valves case manufactured in Great Britain.



Front view of Type 2A with broad arrow and VAOS number.



Plan of case of Type 2A printed on white cloth and attached to inside lid.

'Wireless Set No. 19 Case Spare Valves ZA 3104'.

- VAOS number ZA 3104 with broad arrow printed at side of the case.
- Locking swivel catch version 1A, fastened by a roundhead screw.
- Edge of lid was reinforced with a metal strip.
- Sponge rubber valves container. (See also page 5).
- Manufacturer's part number on plan of case: PC 64036.
- Position of drawings in plan of case: 3 valve drawing on top.
- Valves position in container differed from that of Type 2B and 2C.
- Valve type notations included Army, Commercial and VAOS ZA numbers.
 Type 2A, with a different valves container, plan of case or locking catch was also used with other sets under different VAOS numbers (designated Type 2D and 2E). See pages 11 and 12.

Primary recognition items were marked with a red circle and written in red above.





Top view of sponge rubber spare valves container.



Side view of sponge rubber spare valves container showing the 3 valves packed inside.

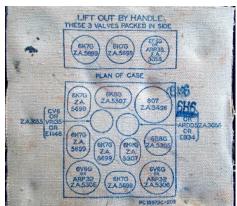


Deterioration of the sponge rubber container often transformed it into a massive block of an almost petrified substance.

Type 2B (early version) WS No. 19 spare valves case manufactured in Canada.



Front view of Canadian Type 2B early version.



Plan of case Canadian early version spare valves case.

'Wireless Set No. 19 Case Spare Valves'. (Early version)

- No VAOS ZA number at side of case.
- Locking swivel catch version 1B.
- Canadian broad arrow stamp on outside lid.
- Sponge rubber valves container.
- Manufacturer's part number on plan of case: PC 76873C-205.
- Position of drawings in plan of case: 3 valve drawing on top.
- Position of valves differed from that of Type 2A.
- valves type notations: Commercial, Army and VAOS ZA numbers.
- The case could be fixed to an object using the three holes at the bottom.
- Colour dark green.

Primary recognition items were marked with a red circle and written in red above.



Side view of Canadian sponge rubber spare valves container. It differed with the British sponge rubber container that it had a canvas flap.



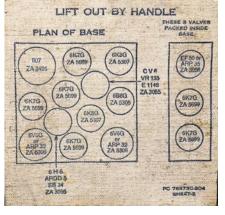
General view of Canadian sponge rubber spare valves container.



Early Canadian Type 2B sponge rubber valves container.

This early version Canadian spare valves case, a near copy of the British Type 2A, had a sponge rubber valves container and a locking swivel catch version 1B. (See also page 5). The drawing of the 3 valves was, similarly to the British Type 2A, positioned above of main drawing. Type 2B (Later version) WS No. 19 spare valves case manufactured in Canada.





Plan of base Canadian spare valves case. Several variations have been spotted.

Front view of Canadian Type 2B later issued version.

'Wireless Set No. 19 Case Spare Valves'. (Later version)

- No VAOS ZA number at side of case.
- Spring catch version 2.
- Canadian broad arrow stamp on outside lid.
- Metal base for the valves.
- Different manufacturer's part numbers on plan of base: PC 76873C-204, 106-261 and NE 76873C-204 have been noted (sometimes with a RCA stamp).
- Position of drawings in plan of case: 3 valve drawing at right hand side.
- Position of valves differed from that of Type 2A.
- valves type notations: Commercial, Army and VAOS ZA numbers.
- The case could be fixed to an object using the three holes at the bottom.

Primary recognition items were marked with a red circle and written in red above.



Top view of case showing Canadian broad arrow stamp.



Side view of Canadian metal base with valves.



WIRELESS SET Nº 19

CASE SPARE VALVES

LIFT OUT BY HANDLE

AN OF BASE

Bottom view of Canadian spare valves base.

Mounting holes in a Canadian Type 2B case.

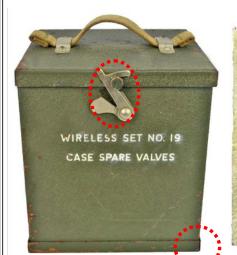
In the construction of both versions of the Canadian Type 2B spare valves case, three mounting holes were made at the bottom of the case.



Constructional detail in bottom edge of steel case (above), and general view of Canadian Type 2B bottom showing mounting holes (right).



Type 2C WS No. 19 spare valves case manufactured in the USA.



Front view of USA roduced Type 2C.



Plan of case USA produced spare valves case early version with two VT-232 valves.

'Wireless Set No. 19 Case Spare Valves'.

- No VAOS ZA number at side of case.
- Locking swivel catch version 1B.
- Raised edge at bottom of steel case.
- Red and black SC inspector stamps (exceptions were noted).
- Metal base for spare valves.
- No manufacturer's part number on plan of case.
- Position of drawings in plan of case: 3 valve drawing at right hand side.
- Position of valves differed from that of Type 2A.
- valves type notations: Commercial and VT numbers.
- Early productions had two VT-232 and five VT-85 valves. *)

Primary recognition items were marked with a red circle and written in red above.



A n.o.s. Type 2C spare valves case with packing carton and black cloth pads fitted between the individual valves (left).



Side view of USA manufactured metal base with spare valves. This was an early production variation with two VT-232 valves.

*) One source mentioned the poor quality of early production VT-232 valves as reason for the issue of two spare valves.





Bottom view of USA manufactured metal spare valves base. Note SC inspector stamp and valves holder retaining catches.



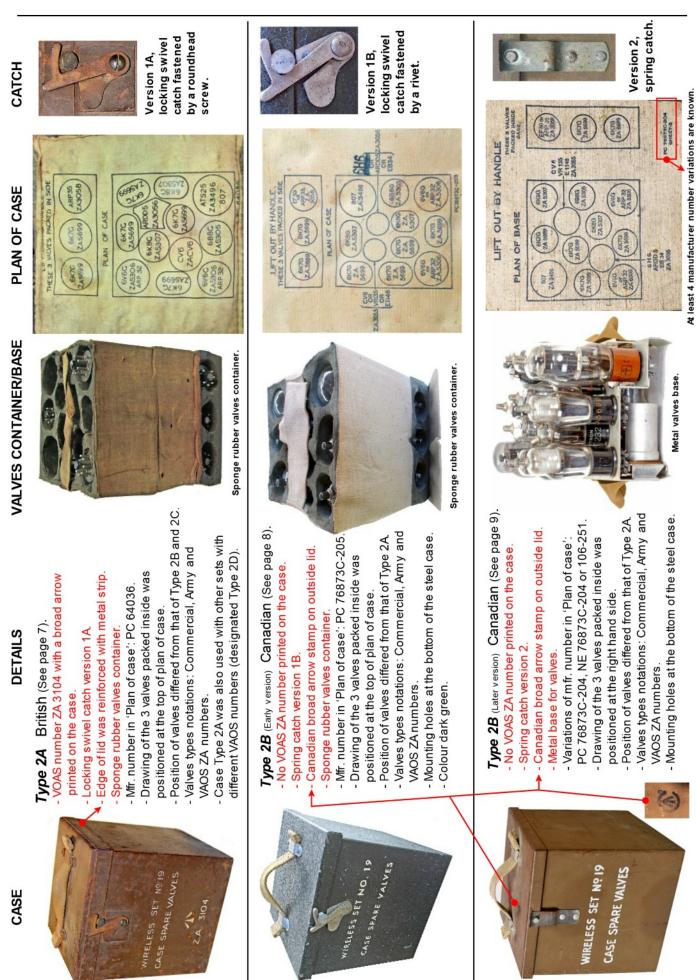
Picture of another metal spare valves base with SC inspector stamp and different valves holder retaining catches.

Later plan of case with only one VT-232.

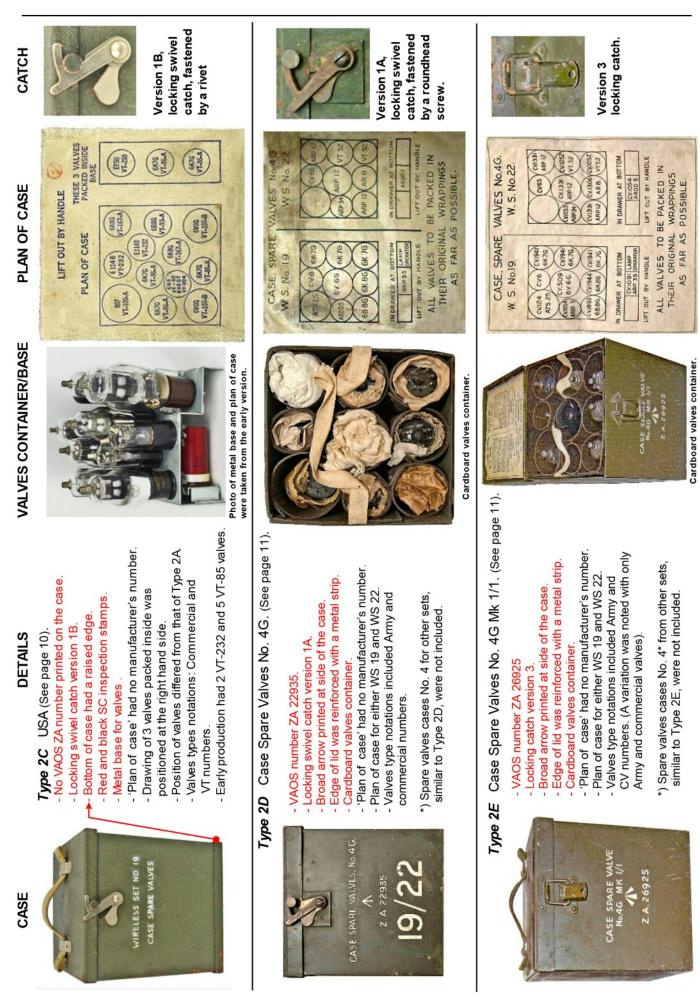




Appendix 1a. Condensed Identification List 19 Set spare valves cases Type 2A-E.



Appendix 1b. Condensed Identification List 19 Set spare valves cases Type 2A-E.



Appendix 2. Identification list of cu	rrently known British spare valves cases.
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Туре	VAOS No.	Used with equipment.
Cases Spare Valves No. 1	ZA 11508	General purpose, WS No. 28, R103
Cases Spare Valves No. 2	ZA 12791	WS No. 38 Mk.I and Mk.II
Cases Spare Valves No. 2 Mk.1/1	ZA 28479	WS No. 38 Mk.3
Cases Spare Valves No. 3	ZA 9817	WS No. 8, 18, Det. Mine No. 2
Cases Spare Valves No. 4A	ZA 13394	R106
Cases Spare Valves No. 4B	ZA 13395	Reception Set UHF
Cases Spare Valves No. 4C	ZA 14041	WS No. 22, R208
Cases Spare Valves No. 4D	ZA 11014	WS No. 21
Cases Spare Valves No. 4E	ZA 20114	Target Control Equipment
Cases Spare Valves No. 4F	ZA 20655	Radio Link SR/DF No.3
Cases Spare Valves No. 4G	ZA 22935	WS No. 19, 22
Cases Spare Valves No. 4GT	ZA 26925	WS No. 19, 22, 62
Cases Spare Valves No. 4G Mk.1/1	ZA 26925	WS No. 19, 22
Cases Spare Valves No. 4H	ZA 23671	W Stations T1154/R106
Cases Spare Valves No. 4J	ZA 24290	WS No. 53
Cases Spare Valves No. 4J Mk.I/I	ZA 29117	WS No. 53
Cases Spare Valves No. 4K	ZA 28125	WS No. 62
Cases Spare Valves No. 4M		WS CN 348
Cases Spare Valves No. 4P	Z2/ZB 14828	SR C12
Cases Spare Valves No. 5	ZA 10418	Amplifier RF No. 2
Cases Spare Valves No. 5 Mk.1/1	ZA 28552	Amplifier RF No. 2
Cases Spare Valves No. 6	ZA 14960	W Sender RCA4332A
Cases Spare Valves No. 7	ZA 17695	W Sender Adm 5G (Modified)
Cases Spare Valves No. 8	ZA 15497	Philcp BV611, BV612
Cases Spare Valves No. 9	ZA 16479	WS No. 12 HP
Cases Spare Valves No. 10	ZA 0692	Wavemeter Class C No. 1
Cases Spare Valves No. 11	ZA 11103	WS No. 48 Mk.I
Cases Spare Valves No. 12	ZA 19838	WS LCV/BC610/19
Cases Spare Valves No. 13	ZA 24343	WS 53
Cases Spare Valves No. 13T	ZA 29076	WS 53
Cases Spare Valves No. 14	ZA 25183	R306
Cases Spare Valves No. 15	ZA 26799	WS No. 78
Cases Spare Valves No. 16	ZA 28690	R209
Cases Spare Valves No. 16 Mk.2	ZA 42589	R209 Mk.2
Cases Spare Valves No. 18	ZA 37926	R220/R220
Cases Spare Valves No. 21	Z1/ZA 38163	WS BE 201
Cases Spare Valves No. 22	ZA 41707	WO BE 201
Cases Spare Valves No. 22A	ZA 43457	C41/R222
Cases Spare Valves WS No. 9	ZA 8339	WS No. 9
Cases Spare Valves WS No. 11	ZA 8580	WS No. 11
Cases Spare Valves WS No. 12	ZA 3545	WS No. 12
Cases Spare Valves WS No. 12 Cases Spare Valves WS No. 14	ZA 3043	WS No. 12 WS No. 14
Cases Spare Valves WS No. 19 Mk.I	N.I.V.	WS No. 19 Mk.I
Cases Spare Valves WS No. 19 MK.	ZA 3104	
Cases Spare Valves WS No. 19 Cases Spare Valves WS No. 21		WS No. 19
	ZA 11014	WS No. 21
Cases Spare Valves WS No. 33	ZA 10727	WS No. 33
Cases Spare Valves WS No. 36	ZA 10792	WS No. 36
Cases Spare Valves Rec Set R107	ZA 2965	R107
Cases 6 Valve	N.I.V.	WS No. 1
Cases 2 Valve ATS250	ZA 0959	WS No. 3
Cases 2 Valve ATP100 No. 1	ZA 10950	WS No. 33
Cases Spare Valves (10¼ x 6½ x 6¼)?	ZA 42362	WS C43

Appendix 3. Canadian WS No. 9, No. 19HP and WS No. 29 spare valves cases.

Canadian No. 19 Set predecessor WS No. 9, and intended follow up WS No. 29, had spare valves cases which resembled Type 2A and Type 2B. The wooden spare valves case of the Canadian WS

No. 19 high power RF amplifier also carried spare parts. 'Wireless Set (Canadian) No. 9 Case Spare Wireless Set No. 9 (Can.) Valves' resemble Type 2A. It was, however, larger (17x17x21cm), and had a wooden base fitted with valve holders. This case was issued to the early Canadian No. 9 Set which was a copy of the British parent set. Wireless Set No. 9 (Can). The case held the following valves: ARDD1, 3x ARP3, 2x AT20 and an ATS70. The Canadian 'Amplifier for Wireless Set No. 19HP (Can). Wireless Set No. 19 Case Spare Valves & Parts' was a wooden box issued with the Canadian developed RF amplifier.





Wireless Set No. 29 (Can.)

CASE, SPARE VALVES № C2-ZA/CAN 2114

VALVES Nº C2-ZA/CAN 2114





Wireless Set No. 29 (Can).

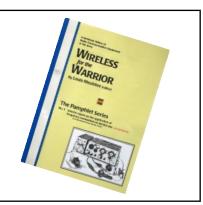
Comparison between WS No. 29 (Can) (left) and WS No. 19 (Can) (right) spare valve box-

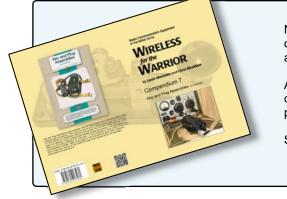


'Case spare valves No. C2 ZA/CAN 2114' (RCA-107742-1) contained spare valves and certain spare parts for Wireless Set (Canadian) No. 29 which was intended as a replacement for Wireless Set No. 19. The case was identical to Type 2B with the exception of two steel separators replacing the metal base.

A loose leaf folder for the WftW Pamphlet Series.

Shown right is a suggestion for a simple and inexpensive method to keep the printed pages together in a plastic clear view A4 document folder. Printable front and rear cover sheets, provided with the downloads, will give the folder an attractive appearance.

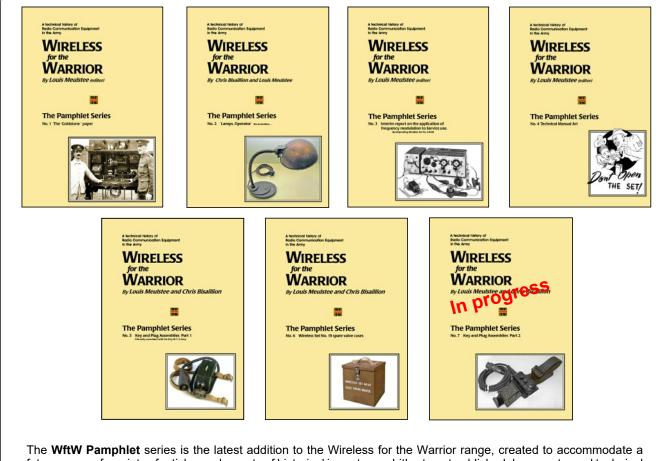




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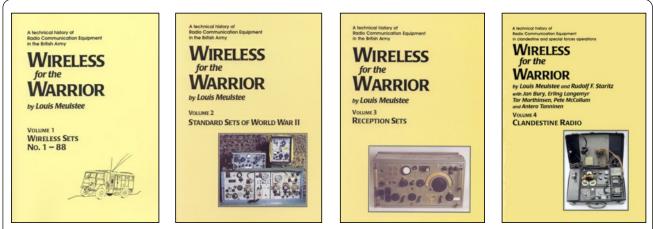
See http://www.wftw.nl/compendium7.html



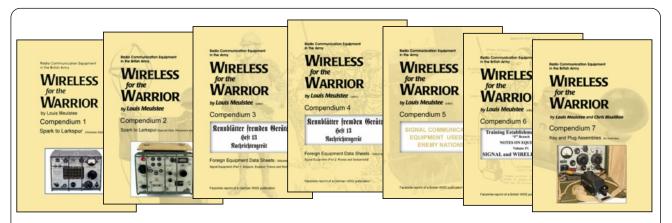
future range of reprints of articles and reports of historical importance, hitherto not published documents, and technical reports on British Army signalling. This free to download and print ready series replaces the now discontinued 'Overview' booklets.

About the Wireless for the Warrior books

The Wireless for the Warrior range of books (comprising the **Volume, Compendium, Supplement** and **Pamphlet** series) are intended as a source of reference to the history and development of radio communication equipment used by the British Army from the very early days of wireless up to the 1960s. Line equipment and military radio communication equipment from other countries is also covered in the recently published Compendiums. For detailed information, review pages and order information visit <u>www.wftw.nl</u>



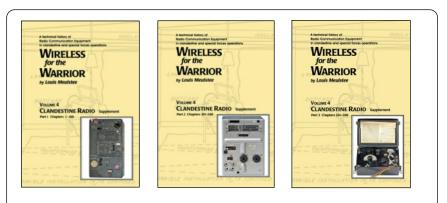
The books in the WftW **Volume** series are very detailed and include circuit diagrams, technical specifications and alignment data in addition to technical development history, complete station lists and vehicle fitting instructions. Generally no operational histories are given as these have been published extensively in numerous other books.



The WftW **Compendium** series is a new addition to the Wireless for the Warrior range, currently comprising 7 books. The new series is principally intended as a practical guide and reference source to vintage military signal communication equipment. The books are particularly valuable to anyone with an interest, professionally or otherwise, in this subject, requiring an elementary but complete quick reference and recognition handbook. Containing condensed data summaries, liberally illustrated with photos and drawings, explanatory captions and short description of the main ancillaries, its pocket size format and laminated soft cover makes it an ideal reference and reliable companion for events such as auctions and radio rallies, or just for browsing at leisure.



WftW '**BUGS**' is a recent book describing the technical history of telephone and room surveillance systems of the Stasi.



The WftW **'Supplement'** series are full colour reprints of previously published WftW Vol. 4 Supplement 'Chapters'.