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## Equipment

\*) To be published.

f) Follow up of a previously published WftW Volume 4 chapter.

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<b>PART 1</b>				
1 f)	Aperiodic Receiver type SSR-201	RDF and Intercept Sets	USA	Brian Harrison
2 f)	RDF Receiver GPO	RDF and Intercept Sets	England	Crypto Museum
3	RCA Victor Model BP-10	Radio Transmitters and Receivers	USA	Eric Pierret
4	Emerson Model 455	Radio Transmitters and Receivers	USA	Eric Pierret
5	Polish Test Set	Special Equipment	England	Royal Signals Museum
6	Receiver Telesonic (v1 02)	Special Equipment	England	Eric Pierret
7	SEM-78 (v1 02)	Radio Transmitters and Receivers	Ger. W.	Mirko
8	Merkur (v1 01)	Radio Transmitters and Receivers	Czech	Miro Hornik
9	Sirius III	Radio Transmitters and Receivers	Czech	Miro Hornik
10	Neptun	Radio Transmitters and Receivers	Czech	Miro Hornik
11	Neptun II	Radio Transmitters and Receivers	Czech	Miro Hornik
12	Clandestine Midget Receivers 1	Radio Transmitters and Receivers	Holland	Museum Jan Corver
13	Mk.17	Radio Transmitters and Receivers	England	Eric Pierret
14	Hajka-I and IV	Radio Transmitters and Receivers	Slovenia	Janez Červek
15	Hajka-II and III	Radio Transmitters and Receivers	Slovenia	Janez Červek
16	Invazija-V (Hajka-V)	Radio Transmitters and Receivers	Slovenia	Janez Červek
17	Kričač	Radio Transmitters and Receivers	Slovenia	Janez Červek
18	RTP8-SSB (V1 01)	Radio Transmitters and Receivers	Yugoslavia	Mirko
19	Systema R	Radio Transmitters and Receivers	USSR	Miro Hornik
20	Labe A	RDF and Intercept Sets	Czech	Miro Hornik
21	Bodrog B (v1 01)	RDF and Intercept Sets	Czech	Miro Hornik
22	Dunaj B (v1 01)	RDF and Intercept Sets	Czech	Miro Hornik
23	Otava (v1 01)	Radio Transmitters and Receivers	Czech	Miro Hornik
24	Polish OP3-G	Radio Transmitters and Receivers	England	Mike Willenbroek
25	Automatic Morse key	High Speed Keyers	Czech	Detlev Vreisleben
26	Plug-in Transmitter Yugo (v1 01)	Radio Transmitters and Receivers	Yugoslavia	Mirko
27 f)	RBZ Power Pack	Radio Transmitters and Receivers	USA	Gavin Pirie
28 f)	Model 6-1 Andrea	Radio Transmitters and Receivers	Norway/USA	Gavin Pirie
29 f)	Hand Generator	Power Generators	England	Gavin Pirie
30	Sirius I	Radio Transmitters and Receivers	Czech	Crypto Museum
31	BND SW receiver	Radio Transmitters and Receivers	Ger. W.	Detlev Vreisleben
32 f)	Uhu	Radio Transmitters and Receivers	Ger. W.	Detlev Vreisleben
33	FE-10	Radio Transmitters and Receivers	Ger. W.	Detlev Vreisleben
34	BND Converter (v1 01)	Radio Transmitters and Receivers	Ger. W.	Detlev Vreisleben
35	Pivoňka -Peony-	High Speed Keyers	Czech	Manfred Bauriedel
36	Receiver 2300	Radio Transmitters and Receivers	GDR	Detlev Vreisleben

This list will be amended when new chapters and changes are published.

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37	33X French suitcase	Radio Transmitters and Receivers	France	Eric Pierret
38	Mk.25	Radio Transmitters and Receivers	England	Finn Fossmark
39	Mk.26	Radio Transmitters and Receivers	England	Finn Fossmark
40	FLE	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
41	Pluto	Radio Transmitters and Receivers	Czech	Detlev Vreisleben
42	HR/HT-0008	Radio Transmitters and Receivers	Czech	Detlev Vreisleben
43 f)	Töpö	Radio Transmitters and Receivers	Finland	Kari Syrjänen
44	Labe	RDF and Intercept Sets	Czech	Detlev Vreisleben
45	Lipán	Radio Transmitters and Receivers	Czech	Detlev Vreisleben
46 f)	Polish BP 3	Radio Transmitters and Receivers	England	Detlev Vreisleben
47 f)	Polish BP 4	Radio Transmitters and Receivers	England	Erling Langemyr
48 f)	Polish BP 5	Radio Transmitters and Receivers	England	K. Bell
49	SHF agents	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
50	Type 2031 SHF home	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
51 f)	S-Phone Prototype	Special Equipment	England	Eric Pierret
52	Type 3 WU (v1 02)	Radio Transmitters and Receivers	Ger.W.	Detlev Vreisleben
53 f)	Type 12 WG (v1 02)	Radio Transmitters and Receivers	Ger.W	Detlev Vreisleben
54 f)	Modular	Radio Transmitters and Receivers	USA/Germ. W.	Detlev Vreisleben
55 f)	KSG-Sender	Radio Transmitters and Receivers	Ger. W.	Detlev Vreisleben
56 f)	FS-7 (SP-15)	Radio Transmitters and Receivers	Ger.W	Detlev Vreisleben
57 f)	Type 1-4 GDR	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
58 f)	WSA 1	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
59 f)	Type 2026.1	RDF and Intercept Sets	GDR	Detlev Vreisleben
60	SE 25	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
61 f)	BP 4 (Transmitter only)	Radio Transmitters and Receivers	England	Erling Langemyr
62	Elbug MV	Special equipment	Czechoslovakia	Miro Hornik
63	RR-48A	Radio Transmitters and Receivers	USA	Detlev Vreisleben
64	RTP8-SSB/3	Radio Transmitters and Receivers	Czechoslovakia	Crypto Museum
65	PS-31	Radio Transmitters and Receivers	Czechoslovakia	Miro Hornik
66	AN/URC-4	Radio Transmitters and Receivers	USA	Detlev Vreisleben
67	Infrared I (v1 03)	Special Equipment	USA	Detlev Vreisleben
68	Infrared II	Special Equipment	GDR	Detlev Vreisleben
69	Infrared III	Special Equipment	GDR	Detlev Vreisleben
70	Infrared IV (v1 01)	Special Equipment	GDR	Detlev Vreisleben
71	Infrared V	Special Equipment	GDR	Detlev Vreisleben
72	Davor	Radio Transmitters and Receivers	Czechoslovakia	Crypto Museum
73	300 A	Radio Transmitters and Receivers	Czechoslovakia	Crypto Museum
74	300AB	Radio Transmitters and Receivers	Czechoslovakia	Crypto Museum
75	Dávač keyer	High speed keyers	Czechoslovakia	Crypto Museum
76	Měsíček keyer	High speed keyers	Czechoslovakia	Crypto Museum
77	Kongo	Radio Transmitters and Receivers	Czechoslovakia	Crypto Museum
78	Přístroj	Radio Transmitters and Receivers	Czechoslovakia	Crypto Museum
79	Plug-in Transmitter French 1	Radio Transmitters and Receivers	France	Detlev Vreisleben
80	Plug-in Transmitter French 2	Radio Transmitters and Receivers	France	Claude Bouvier c.s.
81	Plug-in Transmitter French (Camera)	Radio Transmitters and Receivers	France	Detlev Vreisleben
82	PS-32	Radio Transmitters and Receivers	Czechoslovakia	Miro Hornik
83	UFT-421	Radio Transmitters and Receivers	GDR	Crypto Museum
84	Bodrog A	Radio Transmitters and Receivers	Czechoslovakia	Crypto Museum
85	Unknown CIA (v1 01)	Radio Transmitters and Receivers	USA	Detlev Vreisleben
86	AK 1	Special Equipment	Czechoslovakia	Miro Hornik

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87	RZ-301	RDF and Intercept Sets	Czechoslovakia	Crypto Museum c.s.
88	Hvězda 4	Radio Transmitters and Receivers	Czechoslovakia	Crypto Museum
89	Polish AC Mains SW receiver	Radio Transmitters and Receivers	England	Dennis Yates
90	Post war Telefonbogen	Radio Transmitters and Receivers	Denmark	Michael Taylor
91	Phonotrix high speed keyer	High speed keyers	USA/Germ. W.	Detlev Vreisleben
92	Granit	Radio Transmitters and Receivers	Russia	Roman Buja
93 f)	Marjánka (v1 01)	Radio Transmitters and Receivers	England/Czech	Alois Veselý
94 f)	Šimandl	Radio Transmitters and Receivers	England/Czech	Alois Veselý
95	Midget receivers 2	Radio Transmitters and Receivers	Holland	Ronald Evers
96	KSG Geber	High speed keyers	Germany W	Crypto Museum
97	D cell receiver (v1 02)	Radio Transmitters and Receivers	USA	Detlev Vreisleben
98	Handschnellgeber	High speed keyers	GDR	Detlev Vreisleben
99	Geber E	High speed keyers	GDR	Detlev Vreisleben
100	Umbrella aerial	Special equipment	GDR	Detlev Vreisleben
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101*	WSA 6	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
102	'KE' receiver (v1 01)	Radio Transmitters and Receivers	USA/Germ. W.	Detlev Vreisleben
103	Morava	Radio Transmitters and Receivers	Russia	Alois Veselý
104	Filin	RDF and Intercept Sets	Russia	Crypto Museum
105	Sinitisa	RDF and Intercept Sets	Russia	Crypto Museum
106	Soyka	RDF and Intercept Sets	Russia	Crypto Museum
107	Polish 60W transmitter (v1 01)	Radio Transmitters and Receivers	England	Dennis Yates
108*	Kongshavn	Radio Transmitters and Receivers	Norway	
109	R-353L	Radio Transmitters and Receivers	Russia	Detlev Vreisleben
110*	R-394K	Radio Transmitters and Receivers	Russia	Crypto Museum
111*	R-394KM	Radio Transmitters and Receivers	Russia	Crypto Museum
112	RR-49A	Radio Transmitters and Receivers	USA	Detlev Vreisleben
113	Transmitter hidden in controller	Radio Transmitters and Receivers	Germ.W	Detlev Vreisleben
114	Transmitter hidden in radio-cassette	Radio Transmitters and Receivers	Germ. W	Detlev Vreisleben
115*	Sever	Radio Transmitters and Receivers	Russia	
116*	Tabor II (Andromeda)	Radio Transmitters and Receivers	Czechoslovakia	Miro Hornik
117*	CMS	Radio Transmitters and Receivers	USA	
118*	AT-3	Radio Transmitters and Receivers	USA	
119	SRR-4	RDF and Intercept Sets	USA	Pete McCollum
120	PR-35 Faun	Radio Transmitters and Receivers	Czechoslovakia	Crypto Museum
121*	PR-36 Oberon	Radio Transmitters and Receivers	Czechoslovakia	Miro Hornik
122*	Bugs intro	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
123*	31210 I	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
124*	31211 II	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
125*	31212 III	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
126*	31215 IV	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
127*	31216-1 V	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
128*	31217-1 VI	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
129*	31218-1 VII	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
130*	31220 VIII	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
131*	31225 IX	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
132*	31312 (KOS-11) X	Radio Transmitters and Receivers	Bulgaria	Detlev Vreisleben
133	RTP-37	Radio Transmitters and Receivers	Czechoslovakia	Patrick Giraud
134*	Midget receivers 3	Radio Transmitters and Receivers	Holland	Museum Jan Corver

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135	Unknown Telefunken	Radio Transmitters and Receivers	Germany W	Detlev Vreisleben
136*	Midget receivers 4 (Philips)	Radio Transmitters and Receivers	Holland	
137*	Moffenzeef	Radio Transmitters and Receivers	Holland	Museum Jan Corver
138	RR/C-59	Radio Transmitters and Receivers	USA	Detlev Vreisleben
139	Keyer 32843	High Speed Keyers	GDR	Detlev Vreisleben
140	Neva	Radio Transmitters and Receivers	GDR	Crypto Museum
141	Poplach	Special Equipment	Czechoslovakia	
142*	Chaika	Radio Transmitters and Receivers		
143*	PR-56	Radio Transmitters and Receivers	USA	
144*	Stritz	Radio Transmitters and Receivers		
145	Mk.V <sup>2</sup>	Radio Transmitters and Receivers	England	Alois Vesely
146*	Polish A1	Radio Transmitters and Receivers	England	
147*	PRC-52	Radio Transmitters and Receivers	USA	Brian Harrison
148*	Polish misc.	Radio Transmitters and Receivers	England	
149*	SSTR-1	Radio Transmitters and Receivers	USA	Detlev Vreisleben
150	Russian Partisan set (v1 02)	Radio Transmitters and Receivers	Russia	Hans Saethre
151*	Kama	Radio Transmitters and Receivers	Russia	
152*	Acacia	Radio Transmitters and Receivers	Russia	
153*	Saturn	Radio Transmitters and Receivers	Russia	
154*	Mk.15	Radio Transmitters and Receivers	England	
155*	Mk. IV	Radio Transmitters and Receivers	England	
156*	A Mk.II	Radio Transmitters and Receivers	England	
157*	AP5	Radio Transmitters and Receivers	England	
158*	Unknown GDR	Radio Transmitters and Receivers	GDR	
159*	RS-6	Radio Transmitters and Receivers	USA	Detlev Vreisleben
160*	Severok M	Radio Transmitters and Receivers	Russia	
161*	Rion	Radio Transmitters and Receivers	Russia	
162*	1950s miniature	Radio Transmitters and Receivers		
163*	FE8	Radio Transmitters and Receivers		
164*	Hvezda	Radio Transmitters and Receivers		

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# Introduction

After finishing WftW Volume 4 'Clandestine Radio' in 2004, numerous illustrations, circuits, drawings, technical data of other not yet described clandestine radios (and related equipment) were discovered and kindly send to me. I saved this information over the years, with the intention of compiling a follow-up of WftW Volume 4.

When recently considering the current price of printing plus the dramatic rise of shipping cost, I decided to postpone - or eventually cancel - Volume 4A (the working title of the proposed follow-up) for the time being.

However, I felt that the already gathered valuable and very interesting information should not be stored in a dusty folder but shared with readers of WftW Volume 4 'Clandestine Radio'. In view of today's printing and free distribution methods, I considered several different approaches. Eventually I decided to include the not yet published items and amendments on already published equipment in a separate chapters, and publish these as a free to download 'WftW Volume 4 Supplement' on my website.

There is at present much material waiting for inclusion in the Supplement. Because the preparations for the individual chapters is rather time taking, the publication is in loose leaf form, starting with 8 chapters. This has the advantage to issue updates on already published chapters at a later stage when more information might come available.

The actual publication of the next chapters will be spread over the coming months, if not years....

A loose leaf folder for WftW Volume 4 Supplement. Shown right is a suggestion for a simple and inexpensive method to keep the printed chapters together in plastic clear view A4 document folders. Printable front covers, provided as free downloads, give the folders an attractive appearance.

The contents of the Supplement is based on WftW Volume 4 'Clandestine Radio' having a similar scope of information, with the emphasis on technical details rather than history.

The layout and size of the Supplement is identical to WftW Volume 4, enabling the print-outs to be kept and ready for reading in a standard plastic clear view A4 document folder. A table of contents, intro pages and a front cover, which will give the binder an attractive appearance, are provided in the 'Cover, Intro and Contents pages'.

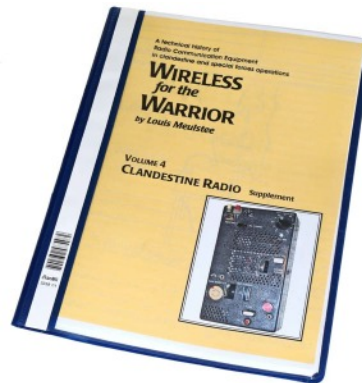
The Supplement downloads are in PDF format with high resolution 300dpi high quality illustrations; for best results these should be printed on A4 paper size, preferably in colour. It must be noted that chapters with more than one page have mirrored gutters; these should be printed as double sided pages.

The information in the Supplement is believed to be correct, but as technical documentation on the covered equipment is rare and/or not generally available for consultation, gaps were unavoidable.

I shall be grateful to receive information on any possible copyright material which has not been previously acknowledged.

Any comments, corrections, better quality photos, additional information and new entries are most welcome, full credit will be given to the contributor.

Contact me at: louis'at'wftw'dot'nl











## COPYRIGHT.

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## Links and Abbreviations

 	<p>At present we are a virtual museum in Eindhoven, The Netherlands, which can only be visited on the Internet. The main purpose of the Crypto Museum is to preserve history. This is done by collecting, restoring and describing historical cipher machines such as the well-known Enigma Machine, spy equipment and the likes.</p> <p><a href="http://www.cryptomuseum.com">http://www.cryptomuseum.com</a></p>
	<p>Museum Jan Corver is dedicated to ham/amateur radio, located near Eindhoven in the Netherlands. The museum has a large collection of spy and clandestine radios which are normally not all on display due to space.</p> <p><a href="http://www.museumjancorver.org">http://www.museumjancorver.org</a></p>
	<p>Museeradiomili is a French museum with a fine collection of clandestine radios on its website. Part of the collection is sometimes exhibited on special events.</p> <p><a href="http://www.museeradiomili.com">http://www.museeradiomili.com</a></p>
	<p>The GERMAN SPY MUSEUM BERLIN gives a unique insight into the gloom of espionage right where the Wall once divided the city.</p> <p><a href="http://www.deutsches-spionagemuseum.de/en">http://www.deutsches-spionagemuseum.de/en</a></p>
	<p>The Royal Signals Museum traces the history of the British Army's battlefield communications experts from the introduction of the telegraph in the Crimea to the secretive story of cryptography and cyber warfare via espionage and satellites!</p> <p><a href="http://www.royalsignalsmuseum.co.uk/">http://www.royalsignalsmuseum.co.uk/</a></p>
	<p>The Military History Institute in Prague is the research centre, museum, library and archive facility of the Armed Forces of the Czech Republic.</p> <p><a href="http://www.vhu.cz/">http://www.vhu.cz/</a></p>
	<p>Radio communication technique used by military, security and intelligence forces in Czechoslovakia in the years 1939-1989.</p> <p><a href="http://www.zelenavlna.com">http://www.zelenavlna.com</a></p>

FRG	Federal Republic of Germany (Germany West)
GDR	German Democratic Republic (Germany East)
BND	Bundesnachrichtendienst (W German Intelligence Service)
PA	Power Amplifier
CO	Crystal Oscillator
OTS	Operativ Technischer Sektor
TBK	Tote BriefKasten = Dead drop box
OD	Olive Drab (Army green colour)
MO	Master Oscillator (Variable oscillator)
RDF/DF	Radio Direction Finding/Direction Finding
OG	Organisation Gehlen
UDBA	Yugoslav State Security Administration

**Note:**  
This page is a work in progress and more will be added in due course.

# Appendix 1

**Note:**

This page is a work in progress and more will be added in due course.