



Repair Manual

97 WE I
97 WE II
97 BE I

IF-Alignment 460 kc

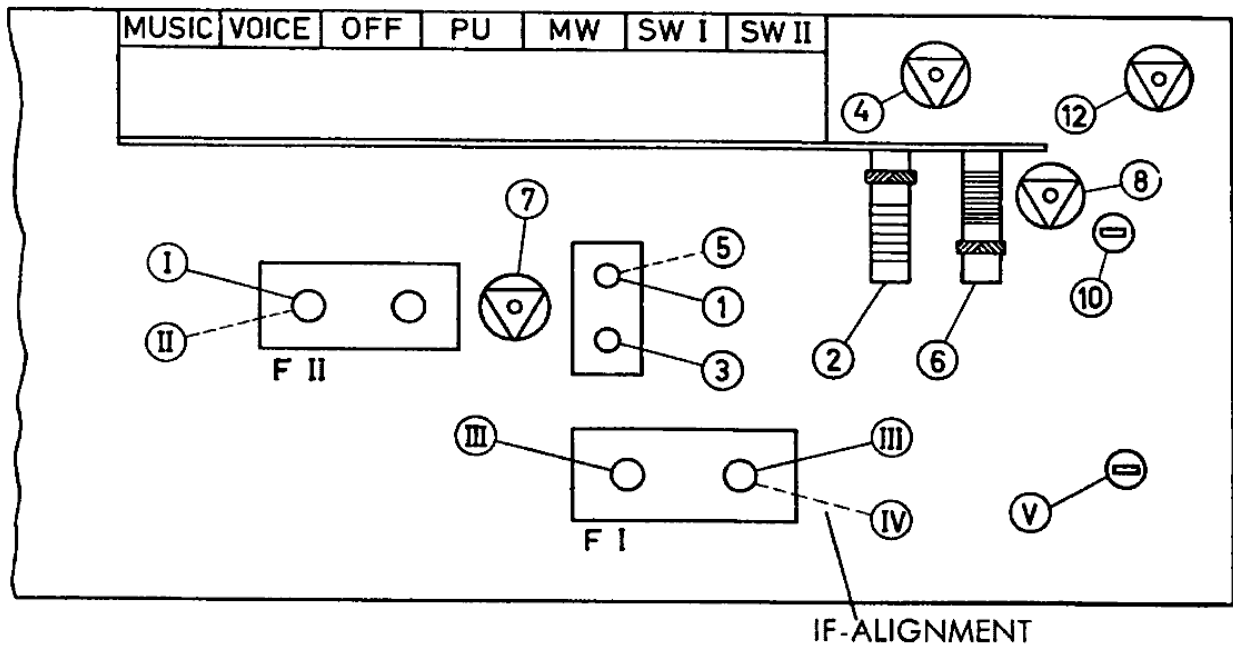
Wave Range, Variable Capacitor setting	Coupling of Signal Generator	Alignment	Sensitivity	Remarks
SW, turned in	G ₁ EF 89 - G ₁ DF 91	I and II maximum	WE I 700 μ V WE II 700 μ V BE I 3 mV	During alignment damp alternately with 5 nF + 10 k Ω in series. IF-Bandwidth: WE I/BE I 4.5 kc WE II 4.3 kc IF-Selectivity: WE I 1:140 WE II 1:130 BE I 1:70
	G ₁ ECH 81 - G ₃ DK 92	III and IV maximum	WE I 12 μ V WE II 12 μ V BE I 80 μ V	
MW, turned in	to aerial	V minimum		Locking depth } WE I/WE II 1:30 BE I 1:20
1 Mc	G ₁ ECH 81 - G ₃ DK 92		WE I 15 μ V WE II 12-22 μ V BE I 90 μ V	Mixing sensitivity

Oscillator and Input Circuit Alignment (dummy aerial to aerial and ground sockets)

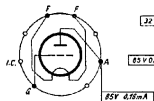
Wave Range, Frequency, Pointer setting	Oscillator	Input Circuit	Oscillating Current μ A	Sensitivity μ V	Image Suppression	Remarks	
97 WE I/97 BE I							
SW II	11 Mc	1 maximum	2 maximum	WE I 230-380-200 BE I 120-200	24-18	1:6-1:4	Volume control opened fi < fo
	21 Mc		4 maximum		240-120	1:4-1:3.5	
SW I	3.7 Mc	3 maximum	6 maximum	WE I 230-330-260 BE I 140-230	40-45	1:8-1:8	
	8.5 Mc		8 maximum		10-11	1:25-1:10	
MW	560 kc	5 maximum	10 maximum	WE I 280-420 BE I 160-170	6-6.5	1:240-1:100	
	1450 kc	7 maximum	12 maximum		27-35	1:250-1:100	
97 WE II							
SW II	11 Mc	1 maximum	2 maximum	230-380-200	22-23	1:11-1:5	Volume control opened fi < fo The aligning is to be done in such sequence that the aligning frequencies appear at the given positions on the dial scale. Repeat aligning a few times and end with trimmer.
	21 Mc		4 maximum				
SW I	3.7 Mc	3 maximum	6 maximum	230-330-260	8-11	1:44-1:32	
	8.5 Mc		8 maximum				
MW	560 kc	5 maximum	10 maximum	280-420	6-9	1:480-1:360	
	1450 kc	7 maximum	12 maximum				
LW	160 kc	9 maximum	14 maximum	260-380-360	7-8	1:850-1:350	
	350 kc	11 maximum					

Hum: WE I: control closed 2 mV; control opened 3 mV. WE II: control closed 1.7 mV; control opened 3 mV.

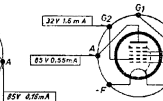
BOTTOM VIEW OF CHASSIS FOR MODEL 97 BE I



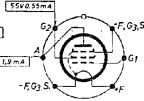
DM 71
1.4V 0.025A



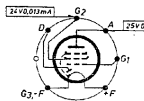
DK 92
1.4V 0.05A



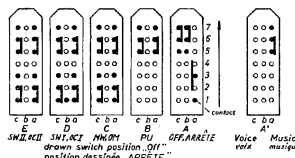
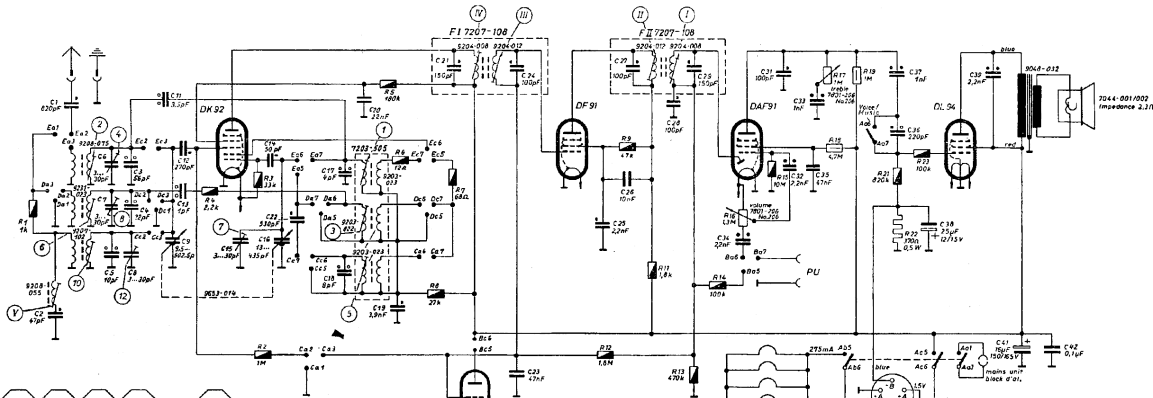
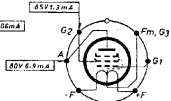
DF 91
1.4V 0.05A



DAF 91
1.4V 0.05A



DL 94
1.4V 0.1A



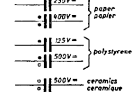
Voltagés mesurés to chassis with GRUNDIG-V VM at 85V= Measuring values valid for MW tuning condenser turned in without signal on aerial.

Tensions de service mesurées à chassis avec GRUNDIG volt-mètre à lampe universelle à 85V= Les tensions de service sont valables pour [C20] condensateur variable ferrite sans signal à l'antenne

Alterations reserved

AM-coil set: 7914-002
AM-bi-coil bobinage 7419-002
IF=460 kc

wave ranges:
gammes d'ondes:
MW: DM 510-1620 kc
SW: CC 325-36 Mc
JMG: CC 314-23 Mc



C:	2,7	5,6,7,3,4,8	M, 72, 125	18	19, 16, 22	77, M	20, 75	21	23, 24	25, 26, 27	28	29	34	31, 32, 33, 35	36, 37, 38	39, 41	42
R:	1			4	4, 3		5, 6	8, 7		12, 9, 11	13, 14, 16, 15	17, 18, 19	21, 22, 23				