

2. Loosen (1 screw) and remove the faulty driving strip.
3. Mount a new driving strip as indicated in fig. 10 and fasten provisionally.
4. Stretch the strip with a spring as indicated in the same figure. One can therefore use a spring which is also a stretching spring in the drive cable for the indicator.
5. Push the driving strip as much as possible in the clamping bracket and mount in such a way that both ends of the strip are aligned.
6. Remove the spring.

PUSH STRIPS FOR THE DIAL

For the exchange of the push strip take the chassis out of the cabinet. Then do as follows:

1. Put the wave-range switch on S.W.1. Loosen the driving strip.
2. Turn the spindle with the 3 pinions, so that the push strip can be taken out.
3. After replacing the faulty push strip, press both push strips under the pinions.
4. Turn the spindle with the 3 pinions so far that the bottom of the push strips comes at the same place as the nick in the brackets.
5. Provisionally fasten the driving strip. Put the wave-range switch in the position M.W. (turn fully anti-clockwise).
6. Fasten the driving strip as indicated under "Driving strip".
7. Place the chassis in the cabinet. Put on the dial and check whether this is mounted in the right position. Adjusting is possible with a thin screwdriver with which the screw in the clamping bracket of the push strip is screwed upward or downward.

SWITCH SECTIONS

For loosening the switch sections one must do as follows:

1. Take the chassis out of the cabinet.
2. Put the wave-range switch in the position M.W. (turn fully anti-clockwise).
3. Loosen the leaf-spring at the end of the flat spindle (1 screw). Push the flat spindle farther to the midst of the chassis.
4. Place the wave-range switch in the position S.W. 4 (3/4 turn to the right).

5. Push the flat spindle with pliers backwards and further through the large gearwheel. To find the slot through which the flat spindle has to pass turn the gearwheel a little up and down by means of the wave-range switch. After removing the mounting strip one can easily reach the switch sections. Inserting the flat spindle is done in the reverse order. One must then pay attention to the position of the wave-range switch.

COILS

If a S.W. coil has to be removed the hole at the upper side of the chassis is drilled out after which the coil can be taken out. A new coils can be fitted by bending the rim of the coil with a warm soldering iron in the aperture concerned.

EXCHANGING GEAR WHEELS after decasing.

1. Place the wave-range switch in the position M.W.
2. Loosen the driving strip.
3. Loosen the brackets (3 screws). The gear wheel and the stop mechanism can now be replaced. The mount as follows:
1. Place three leaf-springs on both sides of the square of the small toothed wheel.
2. Place the bottom of these springs in the bottom locking studs on the chassis.
3. Place the springs on one side with the top in the top locking studs.
4. Place the spindle of the small toothed wheel in the spindle aperture in the chassis.
5. Bend the springs on the other side by means of pliers into the top blocking studs.
6. Press the toothed wheel.
7. Mount the large toothed wheel with the stop ring turning to the right so that it comes up against the bottom stop stud. The flat spindle must then glide into the slot of the toothed wheel. The small toothed wheel can be bent a little to the side during the mounting.
8. Mount the brackets and screw tight (3 screws). See to it that the toothed wheels turn straight in front of each other, the bracket can be shifted a little.
9. Check whether the toothed wheels are mounted well by switching in all positions.
10. Mount the driving strip.

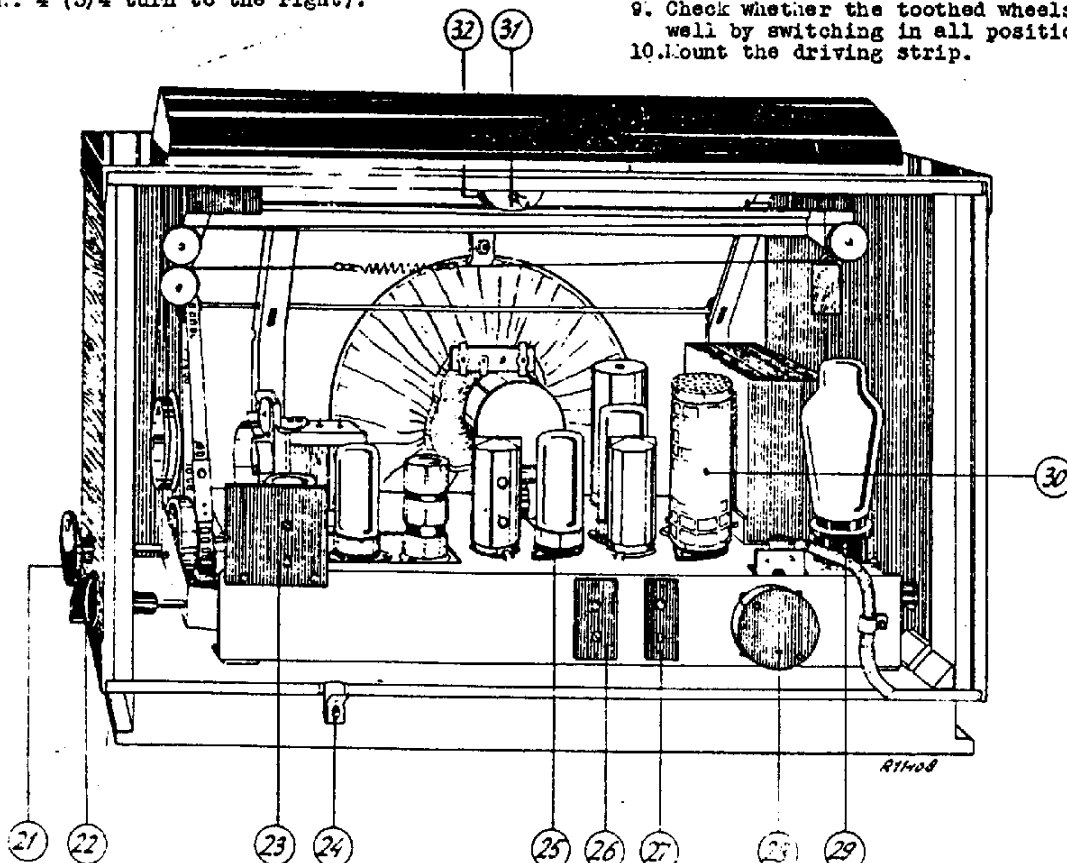


Fig. 11

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LIST OF SPARE PARTS AND TOOLS

When ordering always mention:

1. Code number
2. Description
3. Type number of the apparatus.

Fig.	Pos.	Description	Code number	Price
10	1	Cabinet	A3 000 62.0	
		Indicator	A3 423 75.0	
		Back panel	A3 250 08.3	
		Dial	A3 219 35.0	
		Small driving toothed wheel on axis of wave-range switch	23 693 17.0	
	2	Leaf-spring for stop system	A3 648 57.0	
	3	Large toothed wheel for driving dial	23 693 16.3	
	4	Driving strip	A3 399 96.0	
	5	Driving pulley dia. 18 mm for the driving of the variable condensers.	A3 324 94.0	
		Friction disc (2 x)	A3 574 20.4	
		Driving drum dia. 55 mm for driving indicator	23 644 47.1	
10	6	Triangular plate for mounting pos. 5 and 6	A3 320 80.0	
		Driving spindle for tuning	A3 332 53.0	
		Pinion (3 x) for driving dial	23 681 67.0	
	7	Pin fixing pinion	A3 599 58.0	
		Ring to pinion	A3 560 41.0	
		Tension spring in driving cable	A3 646 23.0	
	9	Sheath for driving cable of variable condenser	08 010 52.0	
	10	Cable for driving variable condenser	33 403 57.0	
	11	Cable for driving pointer	33 635 55.0	
		Variable condenser with drum	49 001 23.1	
10	12	Plate of hard paper)stop	A3 574 73.0	
		Rubber sheat around blocking strip)arrangement	A3 487 10.1	
		Suspension spring (3-x) for variable condenser	A3 652 22.2	
		Tension spring in drum of variable condenser	A3 646 09.3	
		Strip for pushing up the dial	A3 399 52.0	
		<u>KNOBS</u>		
11	21	Knob for tuning	23 609 53.1	
11	22	Knob for wave-range switch	23 609 54.0	
		Knob for volume and tone control	23 609 52.0	
		Spring for fixing the knobs	28 753 01.2	
11	23	Socket plate for connection aerial	A3 379 17.0	
11	24	Leaf-spring for fixing the back panel	A3 648 56.0	
11	25	Valve holder for valve B1, B2, B3 and B4.	49 231 31.2	
11	26	Socket plate for gramophone connection	A3 186 16.0	
11	27	Socket plate for loudspeaker connection	A1 340 42.0	
11	28	Voltage adapter	A1 339 01.1	
		Voltage connection plate	A3 379 28.0	
11		Valve holder for valve B6 (rectifying valve)	28 226 10.0	
11	30	Metal screen around valve B4	A3 339 56.0	
11	31	Valve holder for valve B5 (tuning valve)	49 231 67.0	
11	32	Mounting spring for tuning valve B5	A3 646 22.0	
		Bracket for fixing the coil can	A1 515 69.0	
		Pilot lampholder	A3 359 35.0	
		<u>SWITCHES</u>		
		Switch section No.1 wave-range switch	A3 199 50.1	
		No.2 " " "	A3 199 51.0	
		No.3 " " "	A3 199 52.0	
		No.4 " " "	A3 199 53.1	
		Bandwidth switch	A3 181 23.0	
		Bush with locking cam on tone control spindle	A3 304 10.0	
		Stop spring	A3 648 63.2	
		Spindle tone control	A3 428 92.0	
		<u>LOUDSPEAKER Type No. 9702-05.</u>		
		Clamping ring	25 871 81.0	
		Paper ring	28 451 54.0	
		Cone	28 220 23.0	
		Diffusor	23 666 56.0	
		<u>TOOLS</u>		
		Service oscillator	GI.2882	
		Trimming key	23 685 66.0	
		Trim transformer	09 992 22.0	
		Centering jig for loudspeaker	09 991 53.0	

Nr.	Résistance Resistance Resistencia	No.de code Codenummer No.de code	Prix Price Precio
S1	49,5 Ohm		
S2	300 "	A3 141 45.0	
S3	1 "		
S4	1 "		
S5	1 "	A3 111 10.0	
S6	1 "		
S7	1 "	A3 110 89.0	
S8	1 "		
S9	1 "	A3 110 90.0	
S10	1 "		
S11	1 "	A3 110 91.0	
S12	1 "		
S13	1 "	A3 110 92.0	
S14	1 "		
S15	1 "	A3 110 93.1	
S16	1 "		
S17	"		
S18	"	A3 122 22.0	
S19	"		
S20	"		
S21	1 "	A3 111 11.0	
S22	1 "		
S23	1 "	A3 110 95.0	
S24	1 "		
S25	1 "	A3 110 96.0	
S26	1 "		

Nr.	Résistance Resistance Resistencia	No.de code Codenummer No.de code	Prix Price Precio
S27	1 Ohm	A3 110 97.0	
S28	1 "		
S29	1 "	A3 110 98.0	
S30	1 "		
S31	1 "	A3 110 99.0	
S32	1 "		
S33	"		
S34	"	A3 122 23.0	
S35	"		
S36	"		
S37	8 "		
S38	5 "		
S39	1 "	A3 122 38.0	
C25	115 pF		
C26	115 "		
C27	115 "		
S41	3 Ohm		
S42	5 "		
S43	3 "	A3 121 94.1	
S44	5 "		
C29	115 pF		
C50	115 "		
S45	"		
S46	"		
S47	"	A3 168 75.0	
S48	"		
S49	"		
S50	"		
S55	"		
S52	43 "	A3 110 60.0	

BOBINES - COILS - BOBINAS

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CONDENSATEURS - CONDENSERS - CONDENSADORES

Nr.	Valeur Value Valor	No.de code Codenummer No.de code	Prix Price Precio
C1	50 uF	48 317 09/50+50	
C2	50 "		
C3	100 "	49 020 39.0	
C4			
C5			
C6	15 pF	48 406 99/15E	
C7	30 "	28 212 36.4	
C8	30 "	28 212 36.4	
C9	82 "	48 406 99/82E	
C10	220 "	48 406 20/220E	
C11	30 "	28 212 36.4	
C12	12 "	48 406 10/12E	
C13	56 "	48 410 10/56E	
C14	470 "	48 411 20/470E	
C15	47000 "	48 750 20/47E	
C16	47000 "	48 751 20/47E	
C17	82 "	48 429 99/82E	
C18	350-575 "	49 005 46.1	
C19	30 "	28 212 36.4	
C20	1820 "	48 429 02/182E	
C21	200 "	28 212 08.2	
C22	30 "	28 212 36.4	
C24	30 "	28 212 36.4	
C25	115 "		
C26	115 "	See "Coils"	
C27	115 "		
C28	68000 "	48 750 20/68E	
C29	115 "		
C30	115 "	See "Coils"	
C31	18 "	48 406 10/18E	
C32	3300 "	48 751 10/33E	
C33	22000 "	48 750 10/22E	
C34	1.8 "	49 056 21.0	
C35	8200 "	48 750 10/82E	
C36	8200 "	48 750 10/82E	
C37	530 "	48 406 20/530E	
C38	47 "	48 406 10/47E	
C39	0.1 u	48 751 20/100E	
C40	10000 pF	48 751 20/100E	
C41	2200 "	48 757 20/22E	
C42	22000 "	48 756 20/22E	
C44	10 "	48 406 99/10E	
C48	47000 "	48 751 20/47E	

CONDENSATEURS - CONDENSERS - CONDENSADORES

Nr.	Valeur Value Valor	No.de code Codenummer No.de code	Prix Price Precio
C51	47000 "	48 750 20/47E	
C52	30 "	28 212 36.4	

RESISTANCES - RESISTORS - RESISTENCIAS

Nr.	Valeur Value Valor	No.de code Codenummer No.de code	Prix Price Precio
R1	1200 Ohm	48 468 10/1K2	
R2	82 "	48 426 05/82E	
R3	33 "	48 426 10/33E	
R4	0.82 MOhm	48 425 10/820K	
R5	47000 Ohm	48 425 10/47K	
R6	22000 "	48 427 10/22E	
R7	24800 "	48 427 10/68E	
		48 427 10/39E	
R8	62000 "	48 426 10/82E	
R9	0.47 MOhm	48 425 10/470K	
R10	27000 Ohm	48 425 10/27E	
R11	47000 "	48 425 10/47E	
R12	0.82 MOhm	48 425 10/820K	
R13	18000 Ohm	48 425 10/18E	
R14	0.65 MOhm	49 500 94.0	
R15	2 MOhm		
R16	0.22 MOhm	48 425 10/220K	
R17	2 MOhm		
R18	0.2 MOhm	49 473 52.0	
R19	0.82 MOhm	48 425 10/820K	
R20	0.22 MOhm	48 425 10/220K	
R21	1.5 MOhm	48 426 10/1.5E	
R22	0.1 MOhm	48 425 10/100K	
R23	1.5 MOhm	48 426 10/1.5E	
R24	0.1 MOhm	48 426 10/100K	
R25	0.56 MOhm	48 425 10/560K	
R27	0.18 MOhm	48 425 10/180K	
R28	0.68 MOhm	48 426 10/680K	
R29	0.1 MOhm	48 425 10/100K	
R30	100 Ohm	48 425 10/1K	
R35	2.2 MOhm	48 427 10/2.2E	
R36	1 MOhm	48 426 10/1E	
R37	1 MOhm	48 426 10/1E	

			V _{g1} (+4)	I _a	I _{g2} (+4)
1	1.22	160	11.0	1.2	0.7
2	1.22	340	11.0	3.6	
3	1.22	64	4.1	0.9	
4	1.21	250	24.0	34	5
5	1.24	240	40	30	1.4

V_{g1} : 4.3
V_{g2} : 250
I_{tot} : 61 mA
prim.: 55 Watt

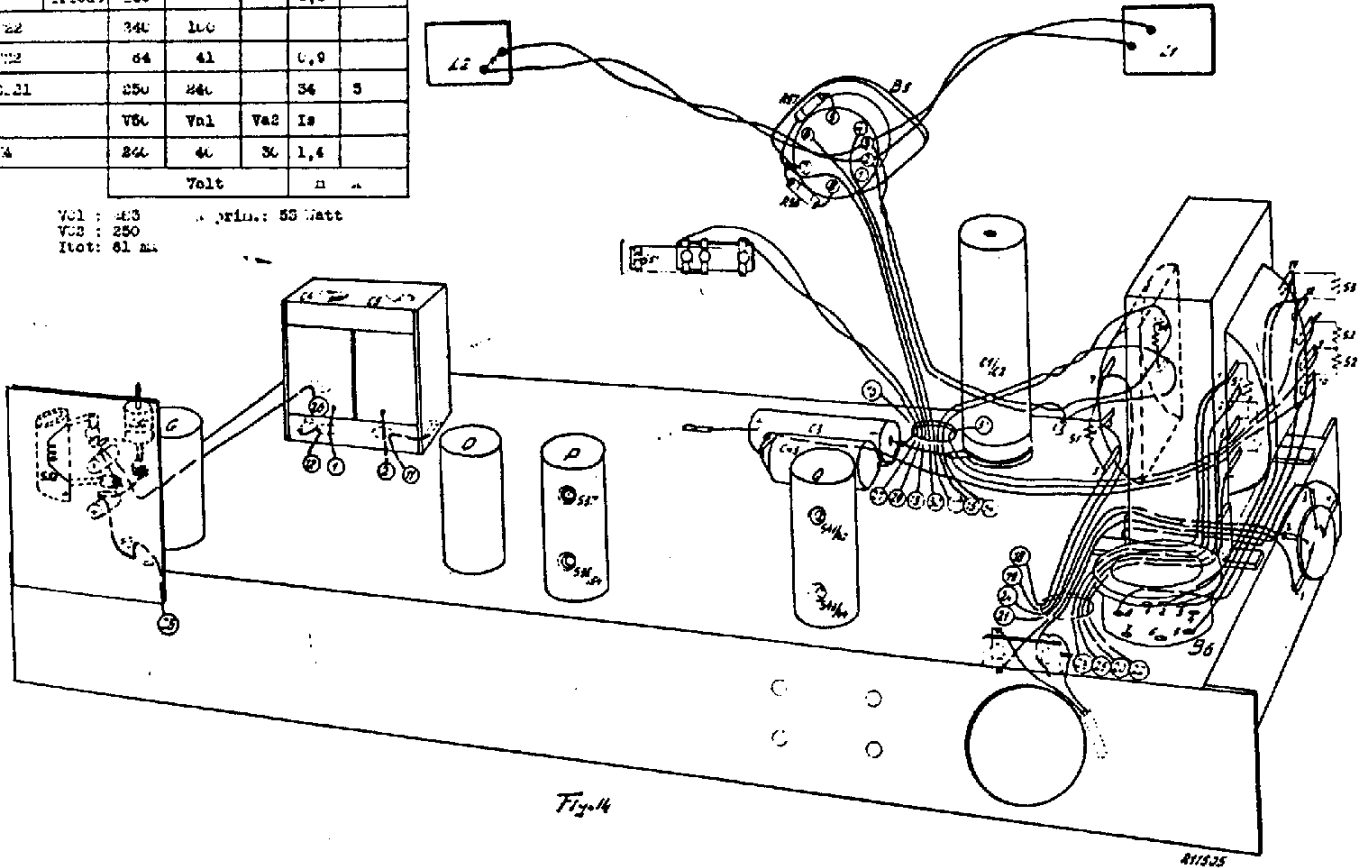
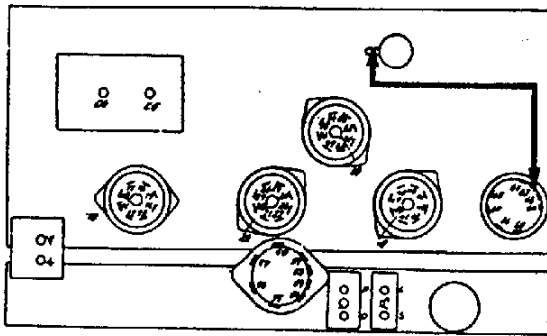


Fig. 14

BX685A



R11477

R															
9	16	26	32	33	36	45	46	53	56	58	P				
10	50	60	513	100	145	200	105	140	65	140	265				
11	12	22	42	44	57	62	63	65	68						
12	11	18	19	21	24	27	28	29	31	47	48	52	53	54	
12	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
12	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
C															
9															
10															
11	15	23	28	33	56										
12	16	32	36												

GM4256

R11638

BX685A

R															
x1	11	18	19	21	24	27	28	29	31	34	38	39	41	47	48
x1	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67
x10	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
x10 ²	12	22	42	44	57	62	63	65	68						
x10 ³	135	136	137	138	139	140	141	142	143						
x10 ⁴	13	14	15	16	17	18	19	20	21						
x10 ⁵	32	33	34	35	36	37	38	39	40						
5x10 ⁵	26	27	28	29	30	31	32	33	34						
x10 ⁻³	16	32	36												
x10 ⁻²	15	23	26	33	36										
x10 ⁻¹	42														

GM4257

R11637