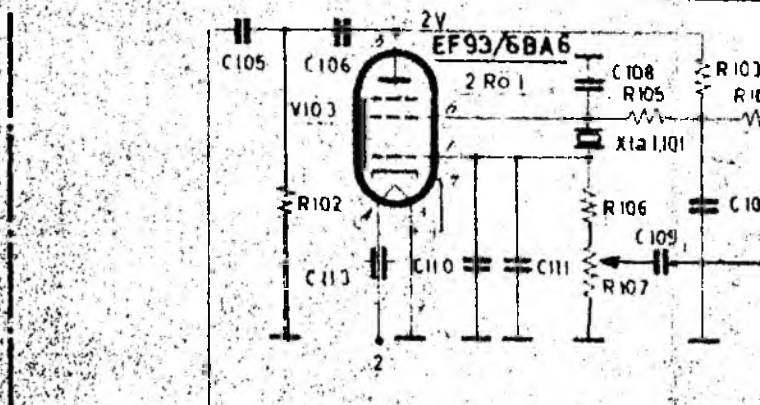
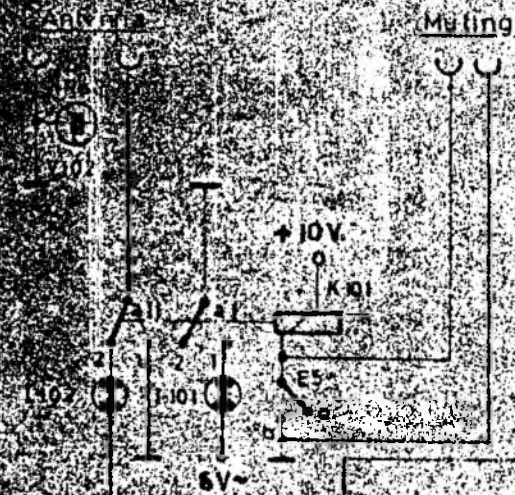
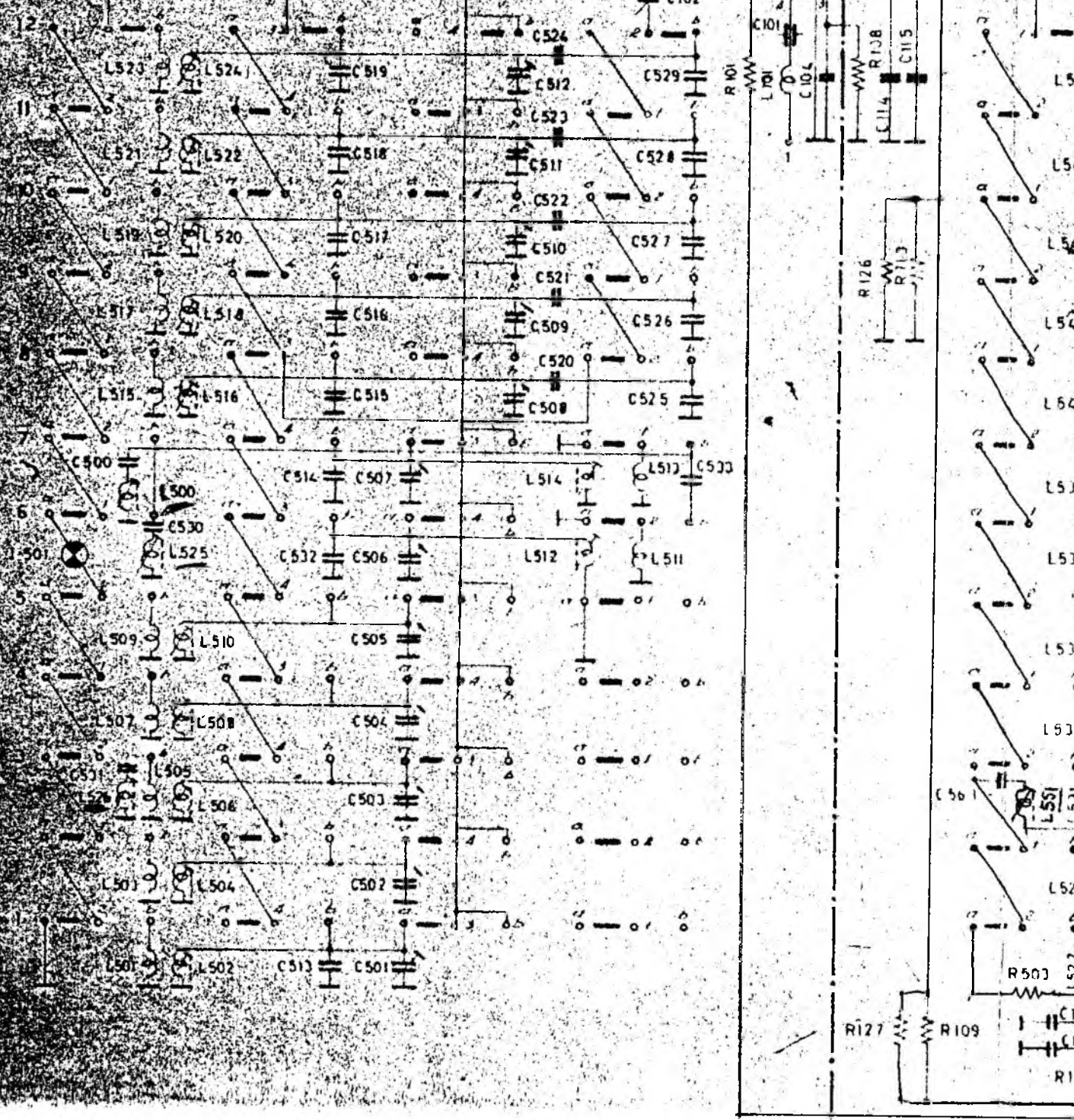
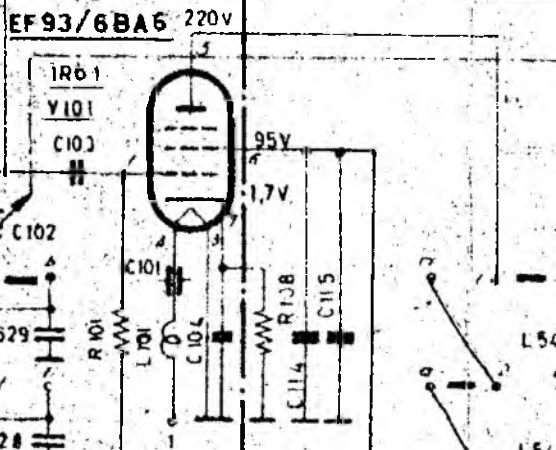
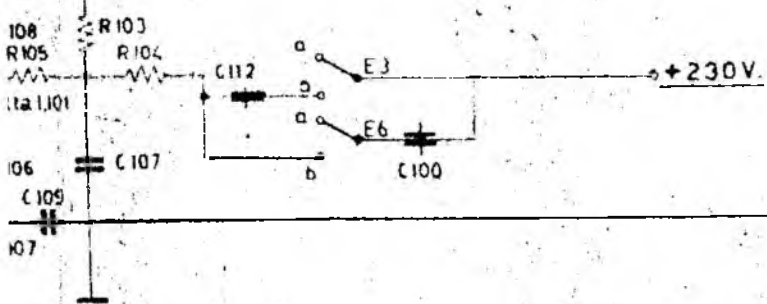


STAGE I

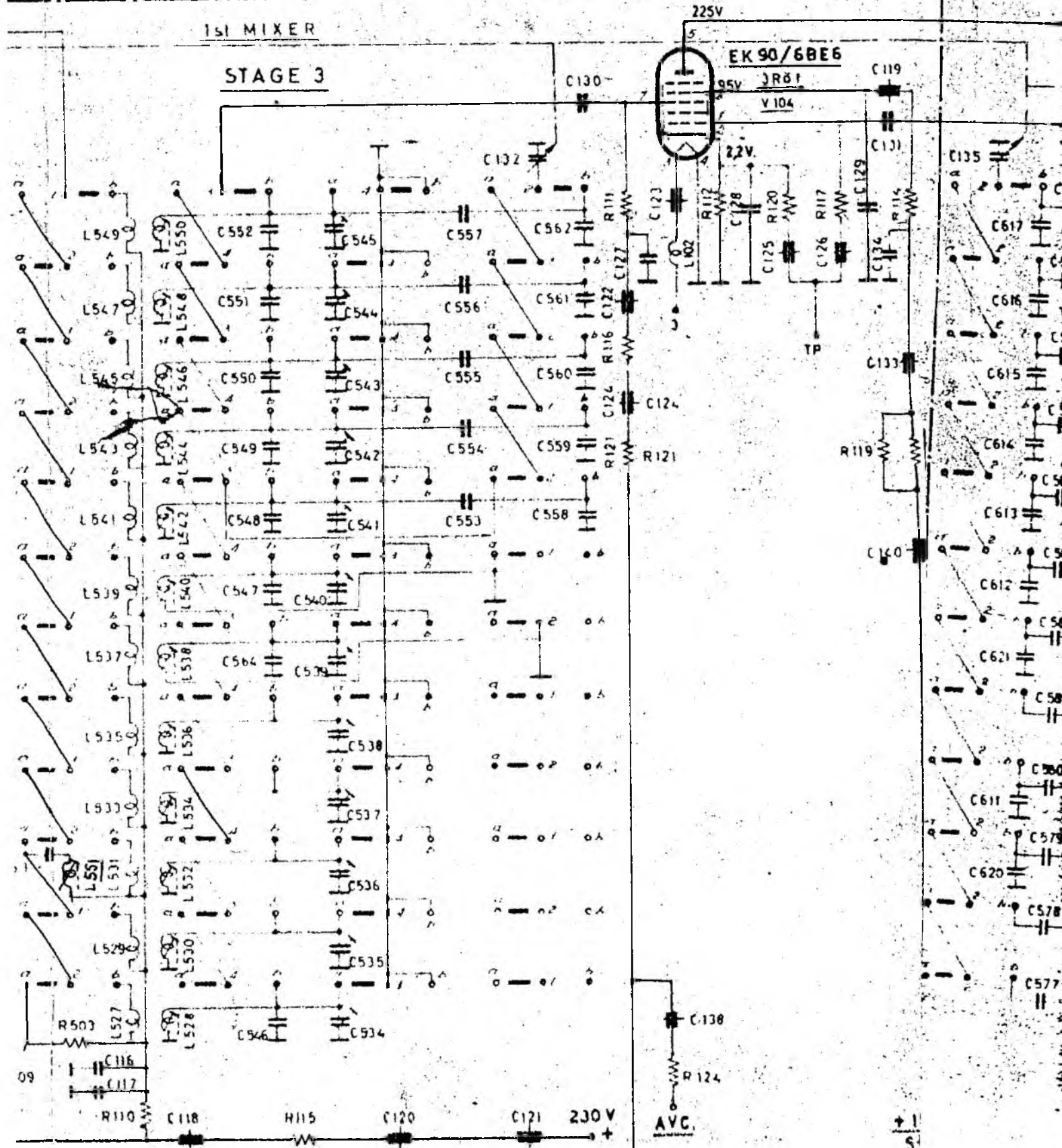


PRE SELECT.
H.F.

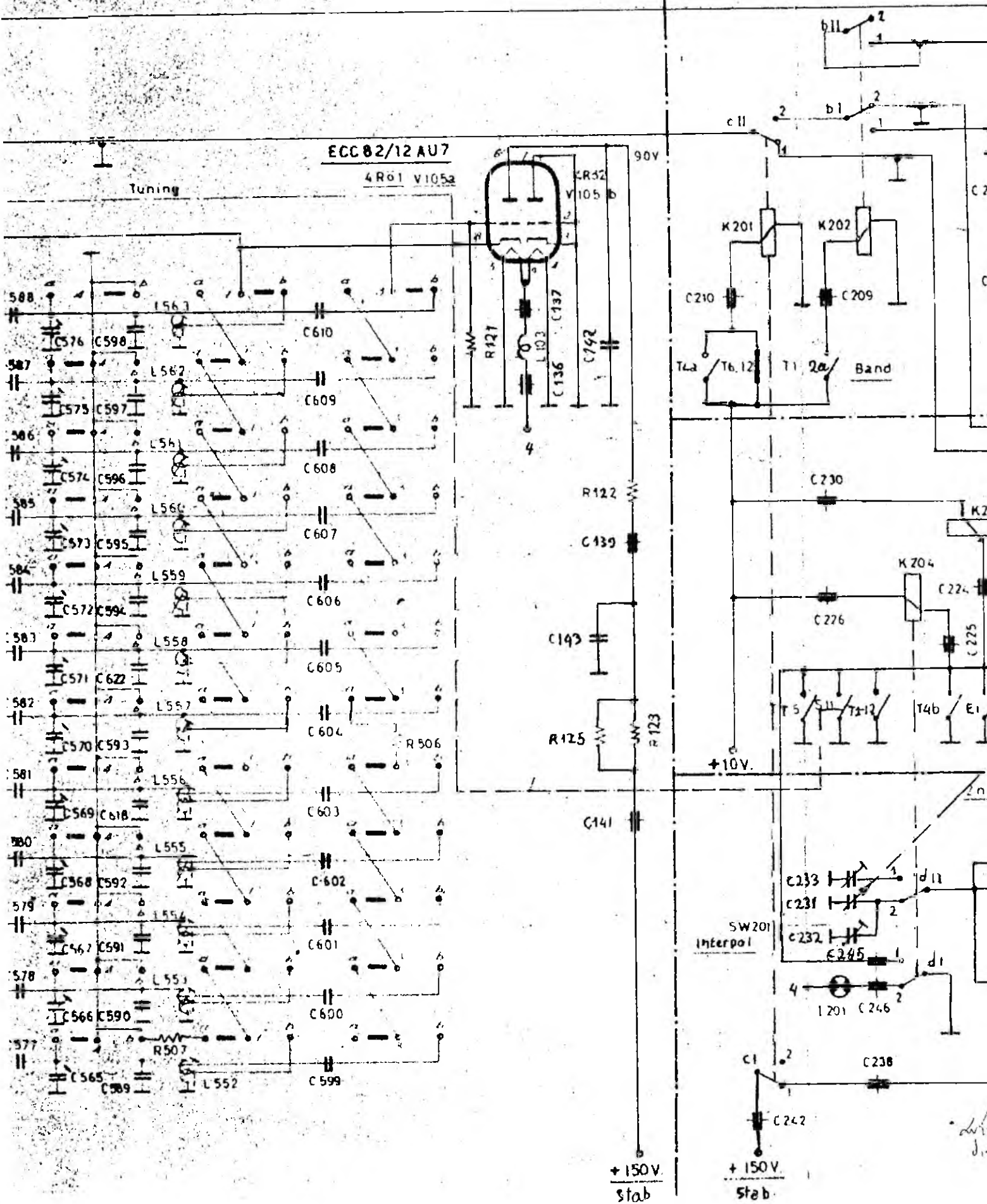




STAGE 2
CALIBRAT. OSCIL.



STAGE 4
1st OSCILLATOR



STAGE 5

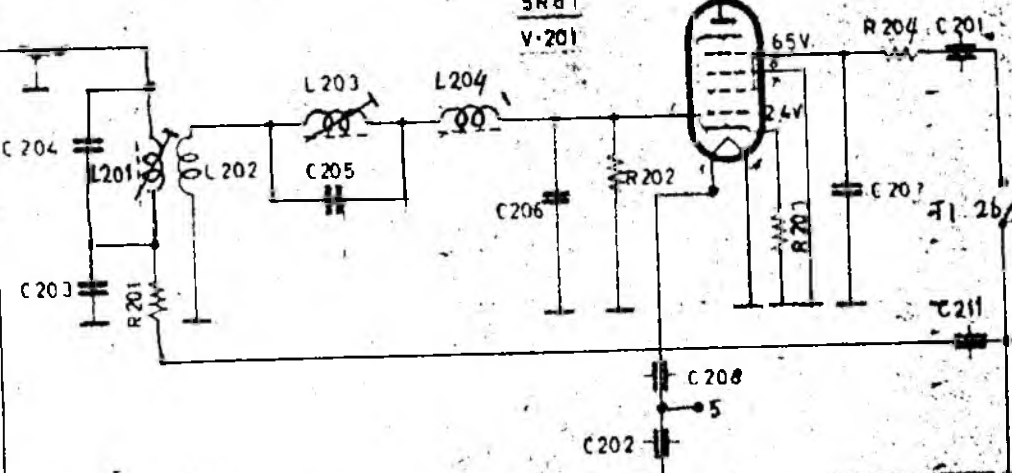
DOUBLER

EK90/6BE6

225V

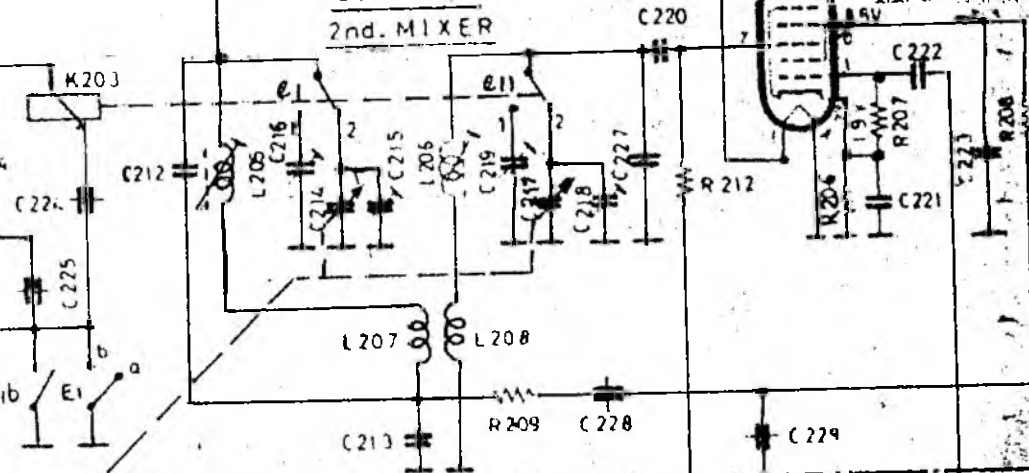
5Rd1

V-201

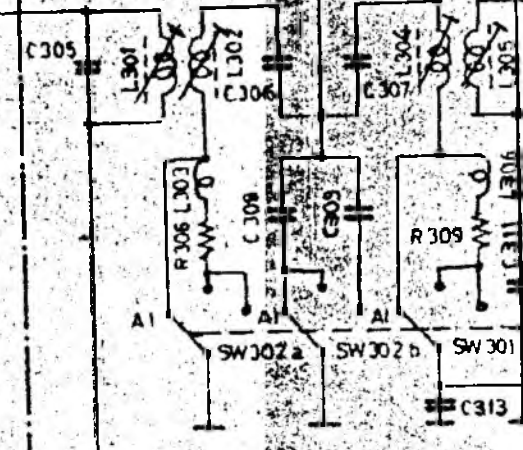


STAGE 6
2nd MIXER

225V EK90/6BE6
5Rd1 V-202

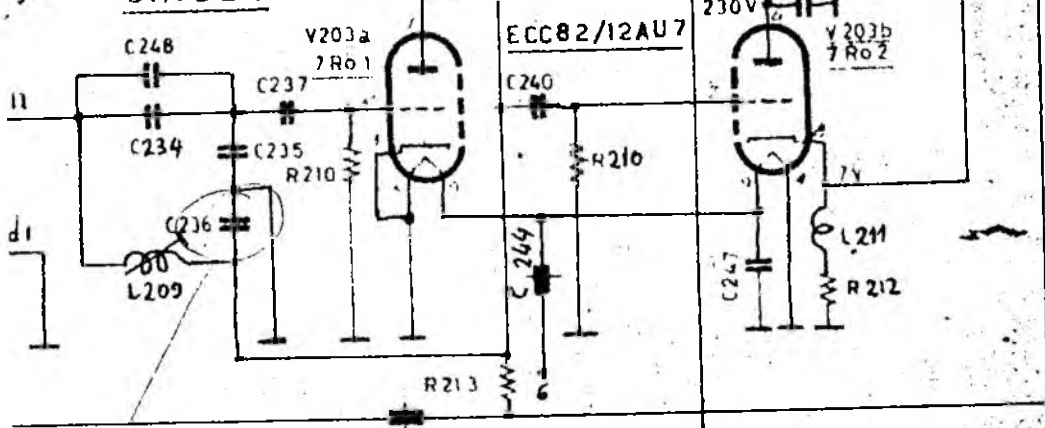


Quadruple Tuned Filter



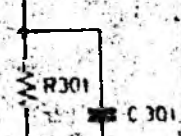
2nd OSCILLATOR
STAGE 7

110V ECC82/12AU7



STAGE 8

A1 AMPLIFIER



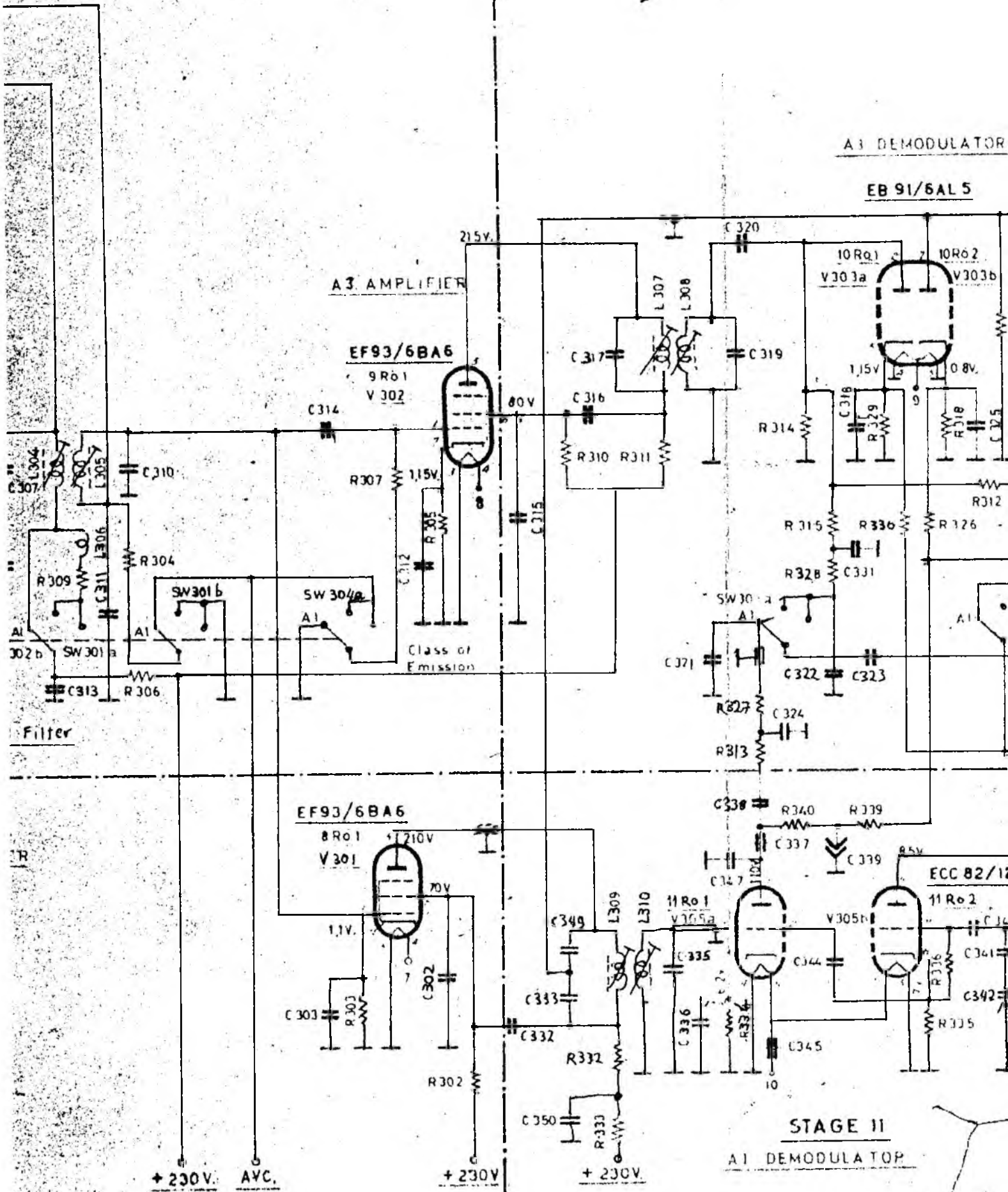
Handwritten note: 1000p/690v

AVC

+ 230V + 230V

STAGE 9

STAGE 10



A1 DEMODULATOR

EB 91/6AL 5

A3 AMPLIFIER

EF93/6BA6

EF93/6BA6

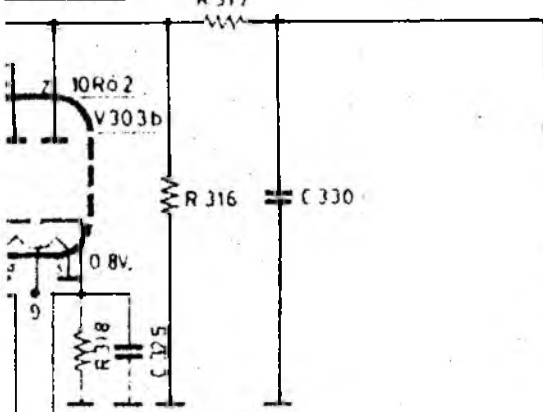
ECC 82/12

STAGE 11

A1 DEMODULATOR

MODULATOR

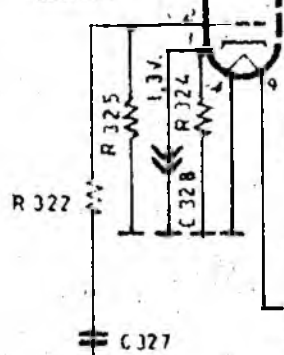
91/6AL5



Audio Amplifier

ECC82/12AU7

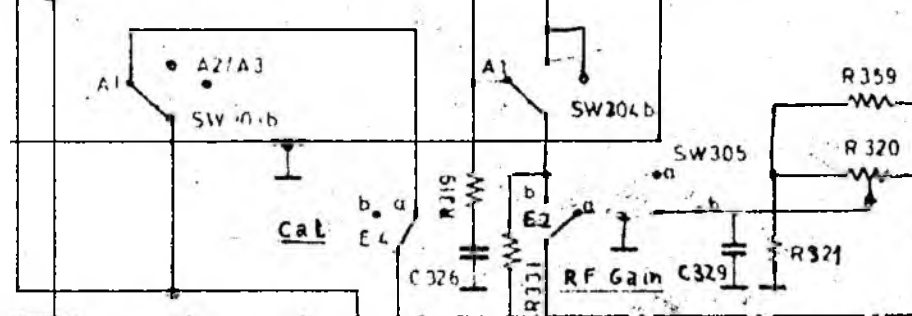
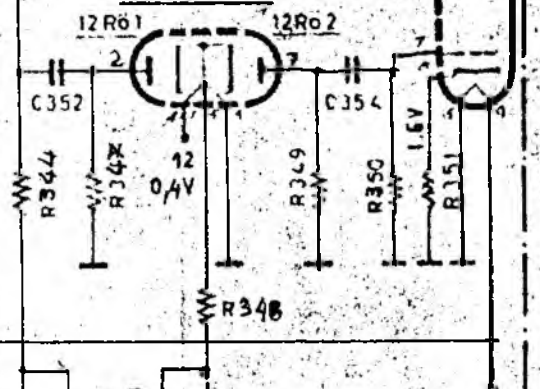
10R03
V304a



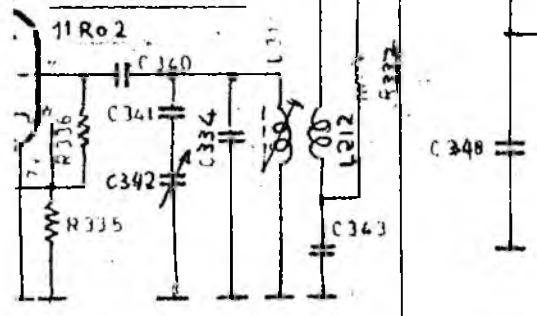
Noise Limiter

V304b
ECC82/12AU7

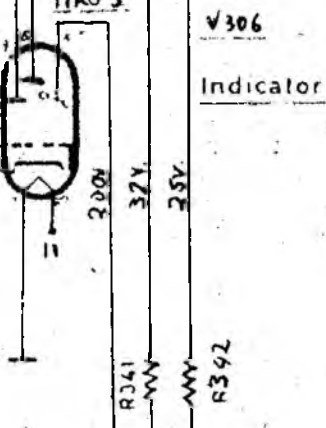
V307a-b
EB91/6AL5



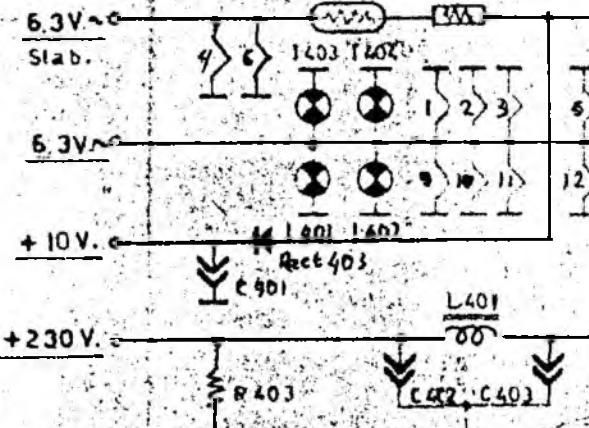
ECC82/12AU7

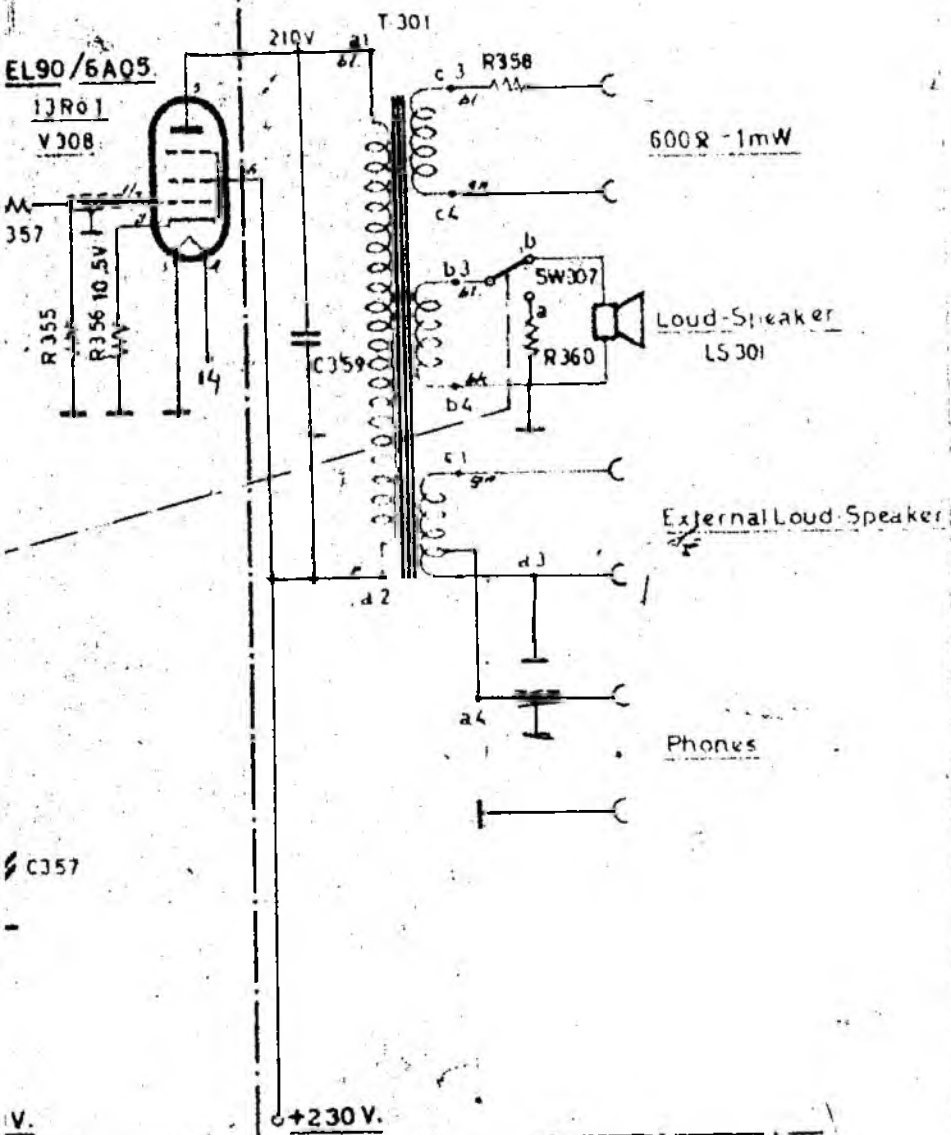


EM34/6CD7



STAGE

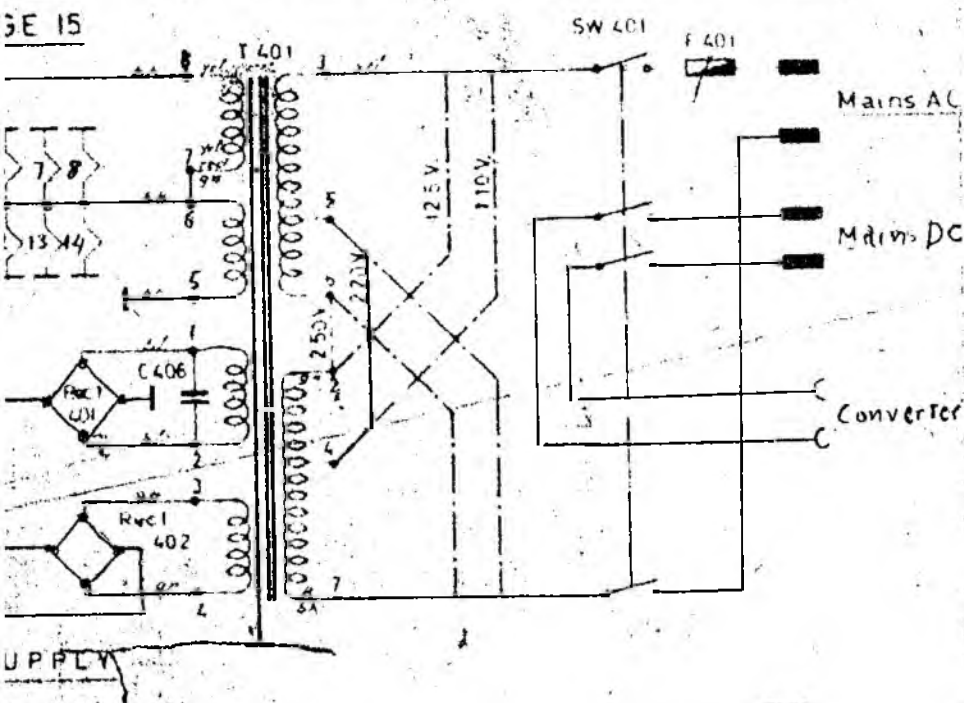




Relays Contacts 1 (e.g.c1) closed with en
Contacts 2 (e.g.a2) closed with no

Band	T1.2a	T1.2b	T1.5	T6.12	T4a	T4b
12				•		
11				•		
10				•		
9				•		
8				•		
7				•		
6				•		
5			•			
4			•		•	•
3			•			
2	•	•	•			
1	•	•	•			

Switch position shown Band 12 bandw
Noise limiter
RF Gain control
Frequency inter
opening of S12



Nr	MODIFICATIONS	Date	Nr
USED FOR			
Material		Nr. of pieces	
Drawn		Checked	
A Van Lierde 19 05 61			



Drw. 4.9.4.

Relays Contacts 1 (e.g. 11) closed with energized relay
 Contacts 2 (e.g. a12) closed with not energized relay


Band	T1.2a	T1.2b	T1.5	T6.12	T4a	T4b
12				●		
11				●		
10				●		
9				●		
8				●		
7				●		
6				●		
5			●			
4			●		●	●
3			●			
2	●	●	●			
1	●	●	●			

● Contact closed

Momentary contact T(-)T12 closes temporarily in changing between bands

Switch position shown: Band 12 bandwidth selector SW 301 - SW 304 at A1.
 Noise limiter "ON" (SW 306b) -
 RF Gain control "ON" (SW 305b).
 Frequency interpolator activated (by temporary opening of S12 the relays K 204, K 203 are restored)

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Nr	MODIFICATIONS	Date	Nr	DESIGNATION	Stock Nr
USED FOR			<h2 style="margin: 0;">All Wave Marine Receiver</h2> <h3 style="margin: 0;"><u>Schematic Diagram</u></h3>		
Material	Nr. of pieces			Replaces	Replaced by
Drawn	Checked			FILE N°	6-304
<i>A Vanhellede</i> <i>19 05 61</i>				DWG N°	20.932

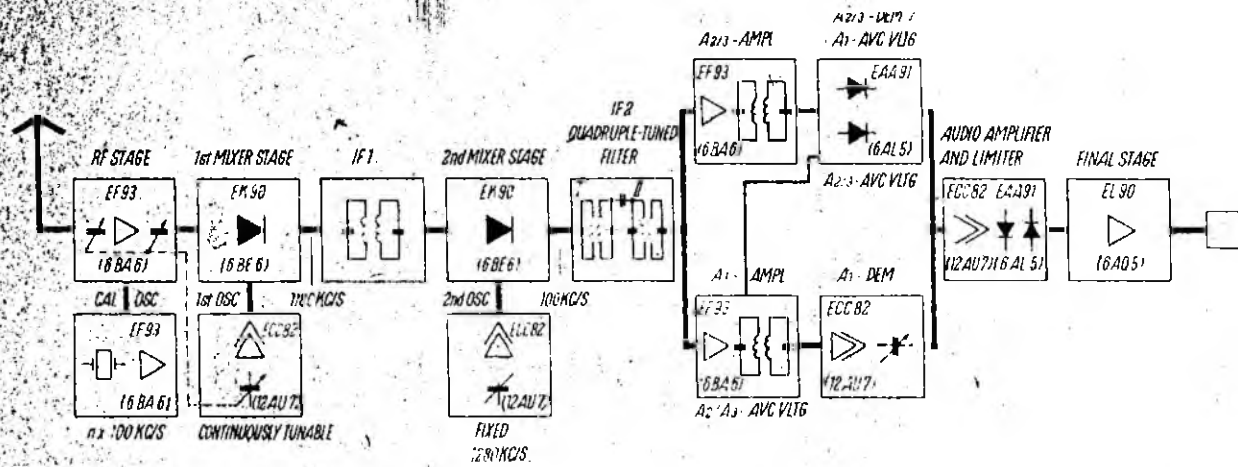


Fig. 4 Functional circuit diagram for band 4

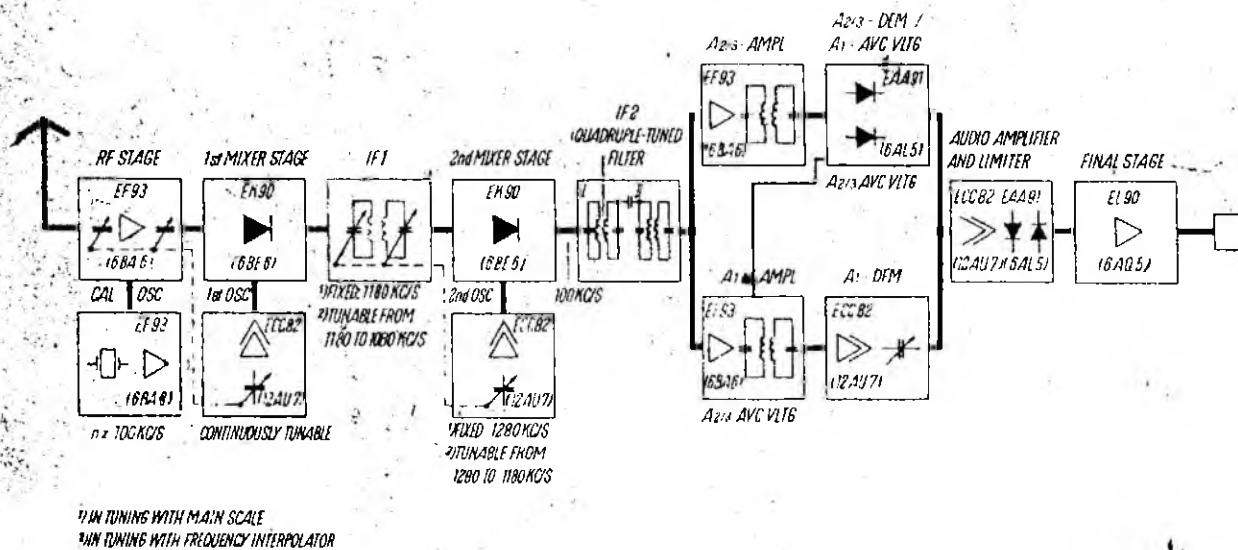


Fig. 5 Functional circuit diagram for bands 6 to 12

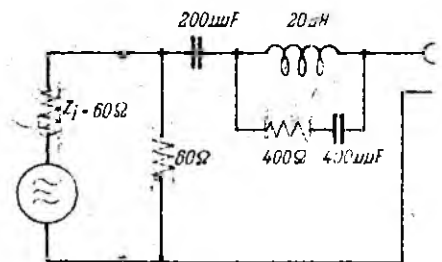


Fig. 6 CCIR dummy antenna

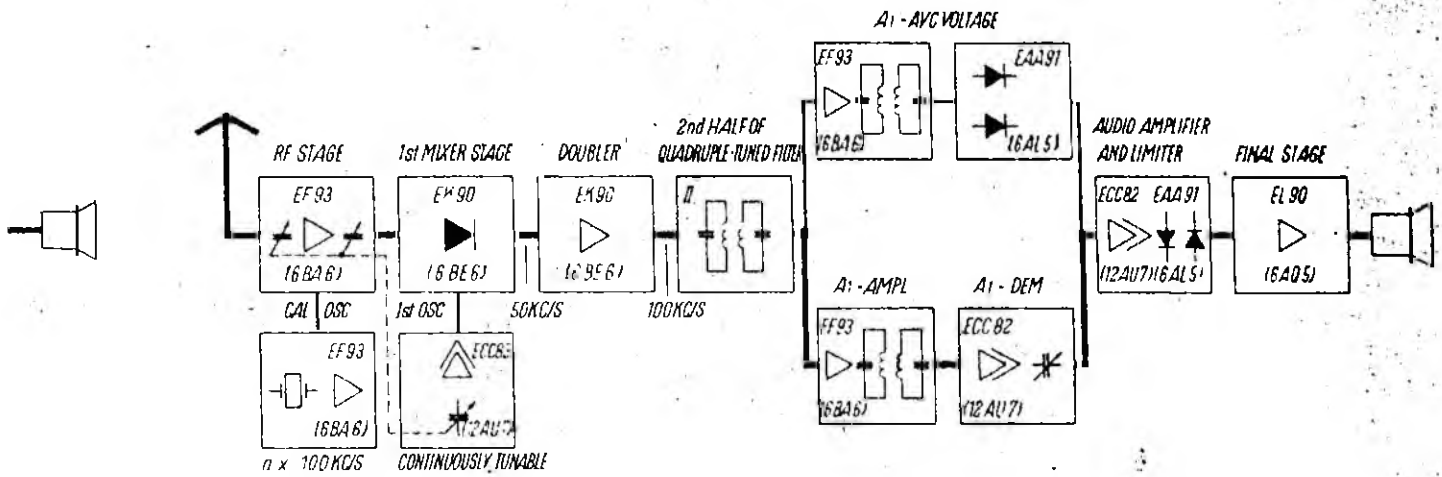


Fig. 2 Functional circuit diagram for bands 1 and 2

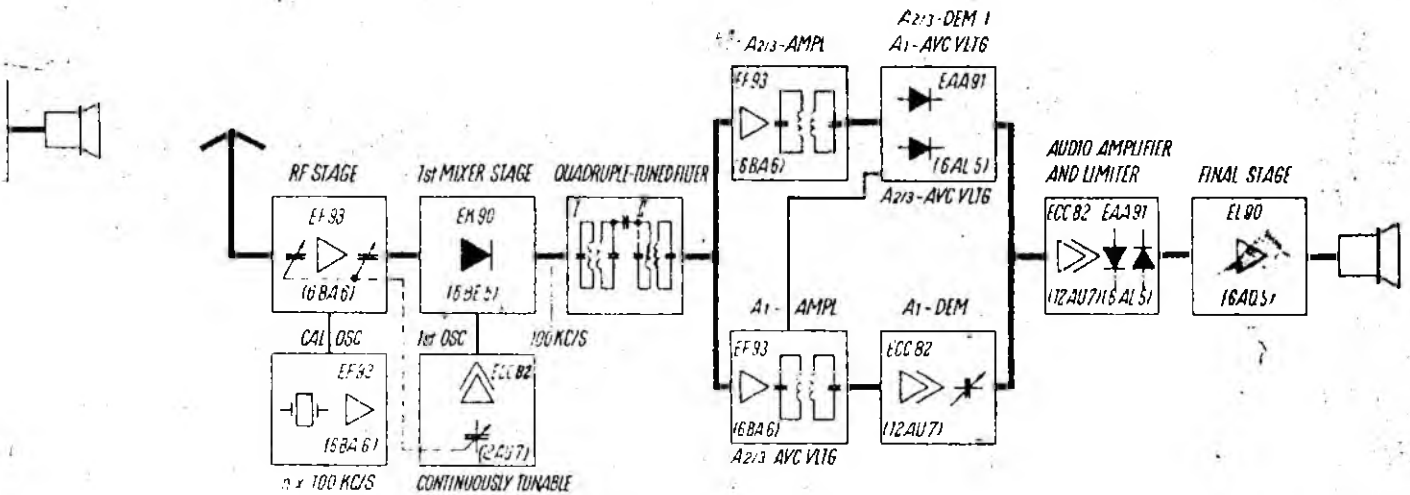


Fig. 3 Functional circuit diagram for bands 3 and 5

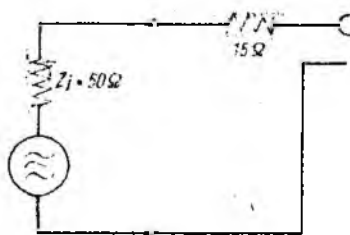


Fig. 7 Dummy antenna for the shortwave bands

Nr	M
U	
S.A.I.T. Cons	
S.A.I.T. Cons	
S.A.I.T. Cons	
S.A.I.T. Cons	
Material	
Drawn	
8.5.61	

Drw. 4.9.2.

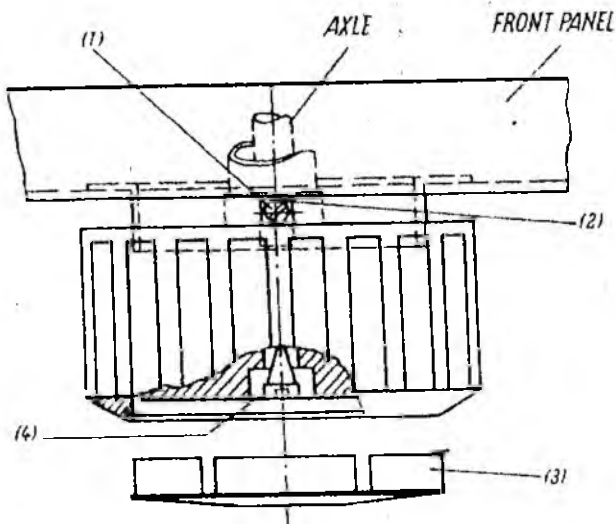




Fig.1 Control knob for the Index of the main scale

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
Nr	MODIFICATIONS	Date	Nr	DESIGNATION	Stock Nr
USED FOR		<p align="center">Main Receiver</p> <p align="center">Control Knob and</p> <p align="center">Block Diagrams of Receiving Bands</p>			
<p><i>S.A.I.T. Consoles Type CR (A-530)</i></p> <p><i>S.A.I.T. Consoles Type PL (A-529)</i></p> <p><i>S.A.I.T. Consoles Type PR (A-531)</i></p> <p><i>S.A.I.T. Consoles Type NR (A-535)</i></p>					
Material	Nbr. of pieces			Replaces	Replaced by
Drawn	Checked			FILE N°	6-304
 2.5.61				DWG. N°	20.921

ITEM DESIGN.	ELEC-TRODE	PIN	MEAS VALUE Ω	ITEM DESIGN.	ELEC-TRODE	PIN	MEAS VALUE Ω	ITEM DESIGN.	ELEC-TRODE	PIN	MEAS VALUE Ω
1 TUBE 1 EF 93	A	5	1.1k (3.2k)	7 TUBE 1/2 ECC 82	A _{II}	1	>100M	11 TUBE 3 EM 34	A _I	3	1M
	G ₂	6	10k		A _I	6	18		A ₂	6	1M
	K	7	150		G _{II}	2	100k		G _I	4	1.4M
	G ₁	1	1.55M		G _I	7	220k		L	5	0
2 TUBE 1 EF 93	A	6	ET 168k (>100M)	8 TUBE 1 EF 93 A1-A2/3	K _I	8	1k	10 TUBE 3 12 TUBE 3 ECC 82	A _{II}	7	120k
	G ₂	6	ET 168k (>100M)		A	5	3k		K _{II}	3	2.2k
	G ₁	1	400k		G ₂	6	68k		G _{II}	2	1M
A	5	1k	K		7	150	A _I		6	110k	
3 TUBE 1 EK 90	G _{2/4}	6	9.5k	9 TUBE 1 EF 93 A1-A2/3	G ₁	1	900k-22k	12 TUBE 1/2 EB 91	K _I	8	2.2k
	K	2	220		A	5	2.2k		G _I	7	1M
	G ₃	1	175M		G ₂	6	68k		13 TUBE 1 EL 90	K _I	1+5
A	6	13.5k	K		7	150	A			5	385
G ₁	7	22k	G ₁	1	1M-1.9M	G ₂	6	0			
5 TUBE 1 EK 90	A	5	1k	10 TUBE 1/2 EB 91	K _I	1	1k	11 TUBE 1/2 ECC 82 A1-A2/3	K	2	270
	G _{2/4}	6	68k (>100M)		K _{II}	5	1k		G ₁	1+7	330k
	K	2	820		A _{II}	1	46k				
G ₁	1	12	K _{II}		3	10k					
6 TUBE 1 EK 90	A	5	1k	11 TUBE 1/2 ECC 82 A1-A2/3	G _{II}	2	28				
	G _{2/4}	6	>100M		A _I	6	43k-280k				
	K	2	150		K _I	8	2.7k				
	G ₃	1	1.9M		G _I	7	100k				

Anode and screen grid resistors measured against + filter capacitor C402. All other resistances and voltages measured against chassis ground. Unless specified otherwise, one button (T1 to T12) pressed. Values in parantheses: No pushbutton pressed, ET: Calibrating button pressed.

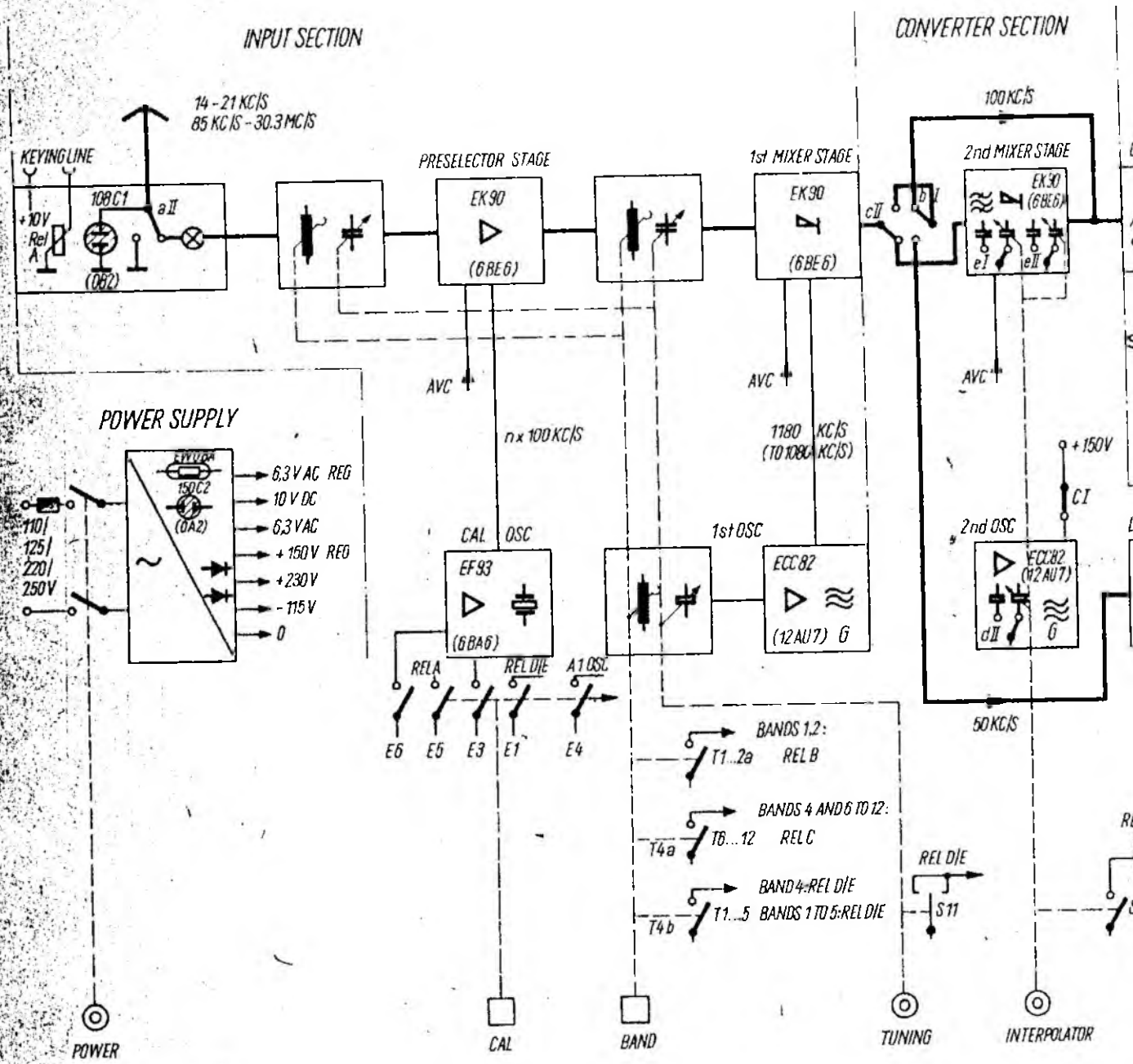
ITEM DESIGN.	ELEC-TRODE	PIN	MEAS VALUE V	ITEM DESIGN.	ELEC-TRODE	PIN	MEAS VALUE V	ITEM DESIGN.	ELEC-TRODE	PIN	MEAS VALUE V
1 TUBE 1 EF 93	A	5	220 (200)	7 TUBE 1/2 ECC 82	A _I	1	110	11 TUBE 3 EM 34	A _I	3	32
	G ₂	6	95		A _{II}	6	230		A ₂	6	25
	K	7	1.7		K _{II}	8	7.2		L	5	230
2 TUBE 1 EF 93	A	5	42	8 TUBE 1 EF 93	A	5	210	10 TUBE 3 12 TUBE 3 ECC 82	A _I	1	50
	G ₂	6	56		G ₂	6	70		K _I	3	1.3
A	5	225	K		7	1.1	A _{II}		6	60	
3 TUBE 1 EK 90	G _{2/4}	6	95	9 TUBE 1 EF 93	A	5	215	12 TUBE 1/2 EB 91	K _{II}	8	1.6
	K	2	2.2		G ₂	6	80		K _I	1+5	-0.4
A	6	90	K		7	1.15	13 TUBE 1 EL 90		A	5	210
5 TUBE 1 EK 90	A	5	225	10 TUBE 1/2 EB 91	K _I	1		7.1	G ₂	6	230
	G _{2/4}	6	65		K _{II}	5		0.8	K	2	10.5
	K	2	2.4		A _I	1	110			6.3	
6 TUBE 1 EK 90	A	5	225	11 TUBE 1/2 ECC 82	K _I	3	6.2	HEAT			
	G _{2/4}	6	85		A _{II}	6	85	REG			
	K	2	1.9		K _{II}	8	7.0				

Voltage measured with AVQ-Multizet meter (10000/v). Resistances measured with suitable measuring bridge. Voltages at anode and screen grid measured in the 300-v range. Unless specified otherwise, T12 pressed, without RF input signal.

Nr	MODIFICATIONS	Date	Nr	DESIGNATION	Stock Nr
USED FOR		<p align="center"><u>Main Receiver</u></p> <p align="center"><u>Voltage and Resistance Values</u></p> <p align="center"><u>in Trouble Shooting</u></p>			
SAIT Consoles Type CP (A. 530)					
SAIT Consoles Type PI (A. 529)					
SAIT Consoles Type PP (A. 531)					
SAIT Consoles Type M2 (A. 535)					
Material	Nbr. of pieces			Replaces	Replaced by
Drawn	Checked			FILE N°	6-304
 8.5.61				DWG N°	20.922

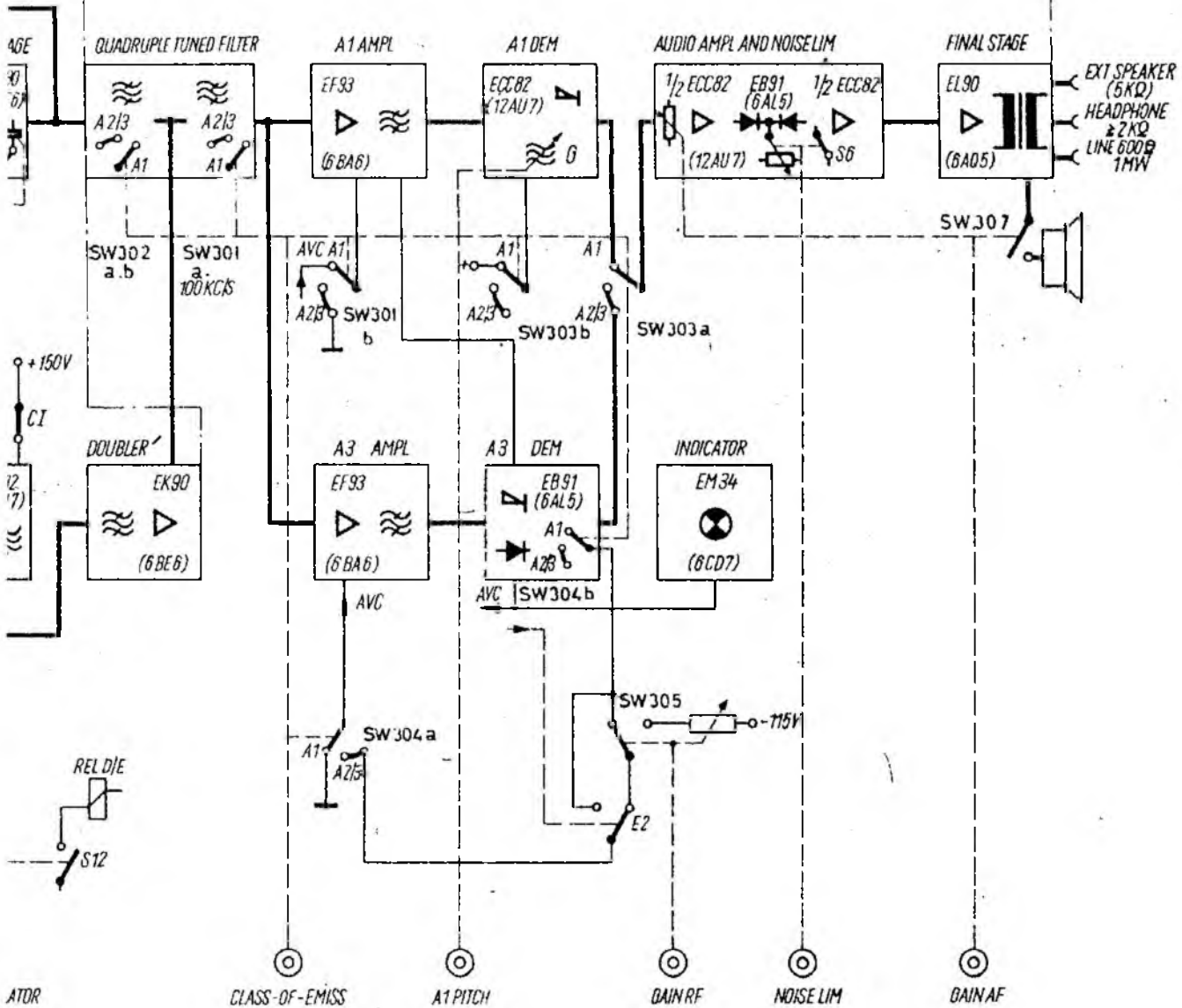
es:

ages
it



2N

AMPLIFIER SECTION



Nr	M
U	
S.A.L.T. Consa	
S.A.L.T. Consa	
S.A.L.T. Consa	
S.A.L.T. Consa	
Material	
Drawn	
E. S.	

Drw. 4.9.1.

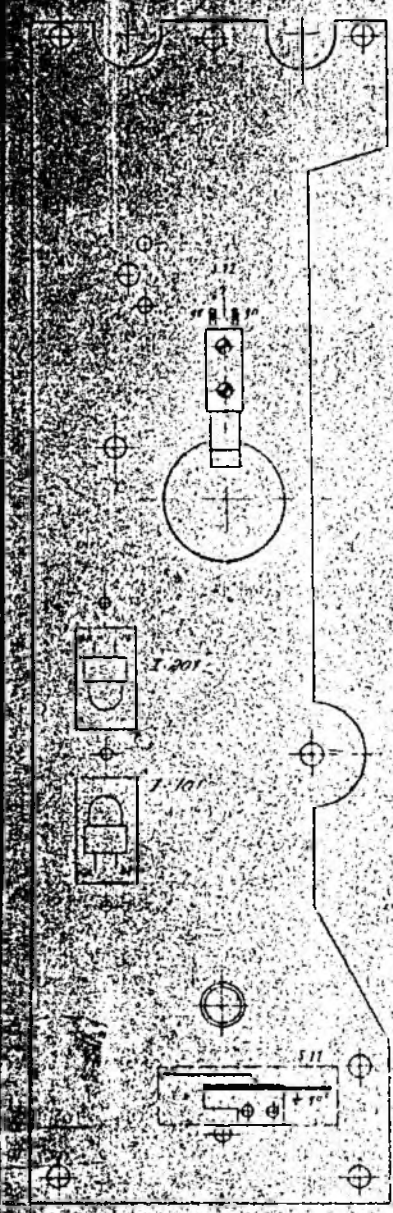
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Nr	MODIFICATIONS	Date	Nr	DESIGNATION	Stock Nr

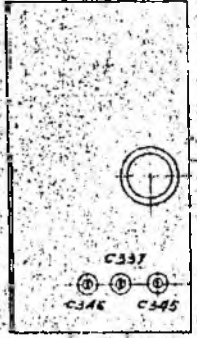
USED FOR	<h2 style="margin: 0;"><u>Main Receiver</u></h2> <h3 style="margin: 0;"><u>Block Diagram</u></h3>
<i>S.A.I.T. Consoles Type CP (A-530)</i>	
<i>S.A.I.T. Consoles Type PL (A-529)</i>	
<i>S.A.I.T. Consoles Type PR (A-531)</i>	
<i>S.A.I.T. Consoles Type NR (A-535)</i>	

Material	Nbr. of pieces		Replaces	Replaced by
Drawn	Checked		FILE N°	6-304
 P. S. 61			DWG. N°	20.923

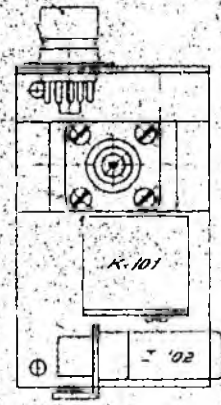
CLARINE UNIT



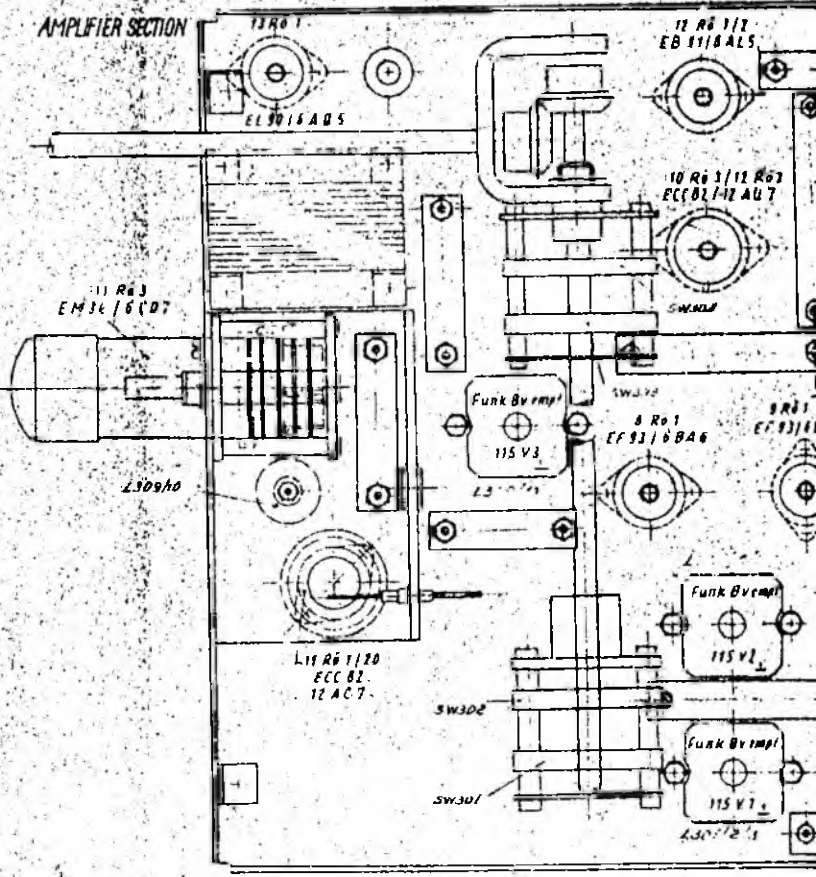
A1-OSCILLATOR



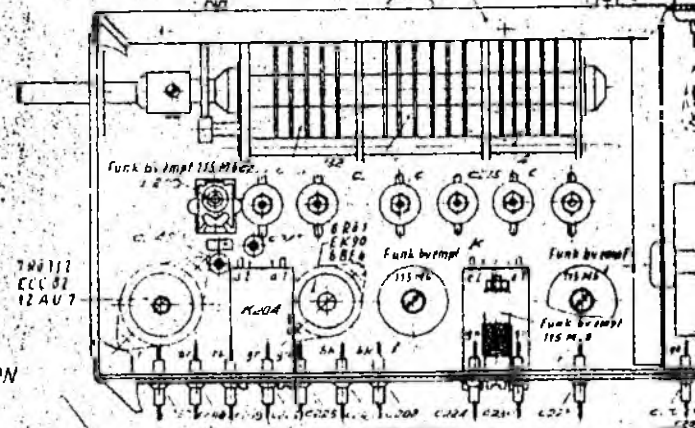
ANTENNA INPUT



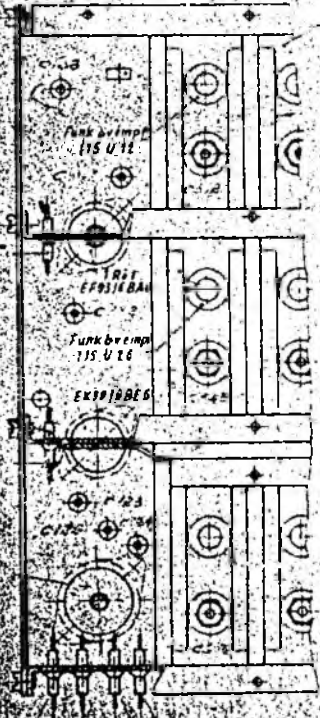
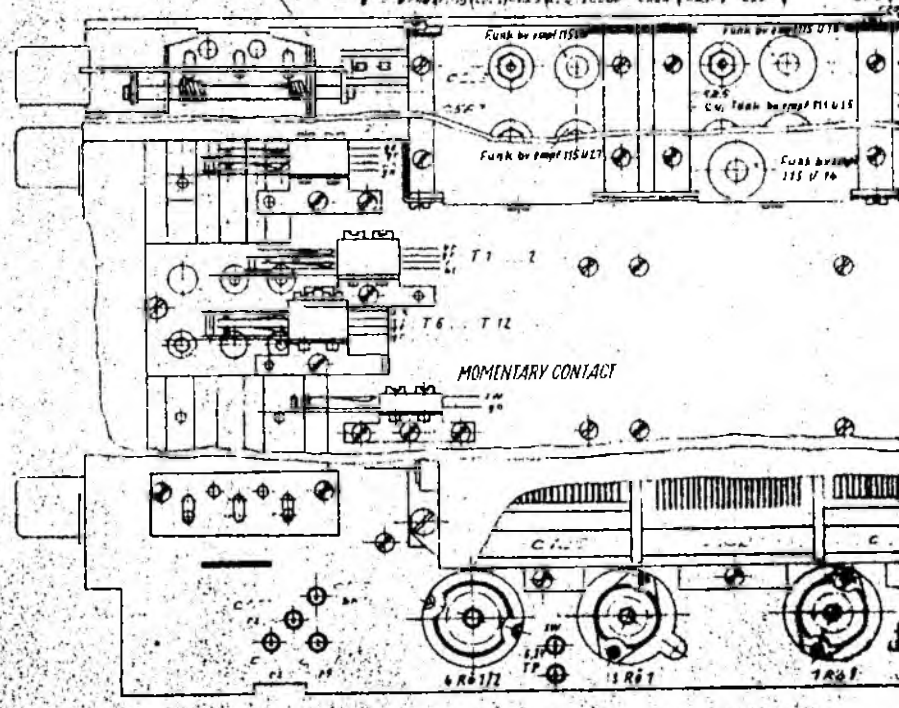
AMPLIFIER SECTION

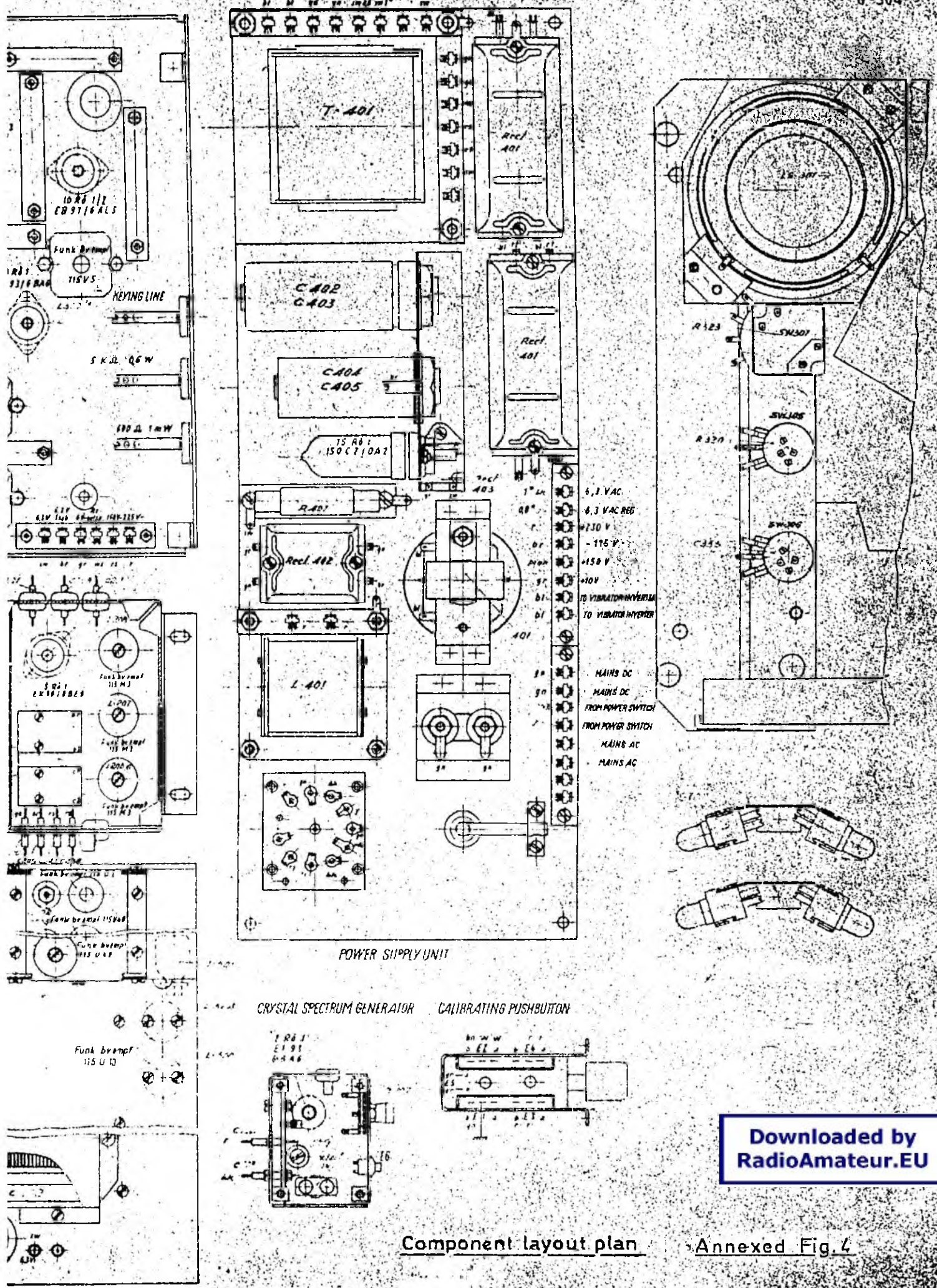


CONVERTER SECTION



INPUT SECTION





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Component layout plan Annexed Fig. 4

IF and RF level plan: Measuring conditions: Noise Limiter "Off"; full volume; RF manual frequency interpolator "Off"; signal generator

Band	Dummy antenna (see figs. 6.7.)			G ₁ /V102/EF-93		G ₃ /V104/EK-90		G ₁ /V201/EK-90	
	Type	Frequency (kc/s)	Volt. (μv)	Frequency (kc/s)	Volt. (μv)	Frequency (kc/s)	Volt. (μv)	Frequency (kc/s)	Volt. (μv)
1	CCIR	18	< 1	18	2	18	350	50	25
2	CCIR	130	< 1	130	2	130	380	50	25
3	CCIR	270	< 1	270	3	270	400	-	-
4	CCIR	550	< 1	550	3	550	50	-	-
5	CCIR	1160	3,5	1160	6	1160	450	-	-
6	CCIR	2400	2,5	2400	7	2400	50	-	-
7	15 Ω	4900	3	4900	4	4900	50	-	-
8	15 Ω	8400	6,5	8400	6,5	8400	60	-	-
9	15 Ω	13000	10	13000	10	13000	70	-	-
10	15 Ω	17700	6	17700	6	17700	70	-	-
11	15 Ω	22700	7	22700	7	22700	65	-	-
12	15 Ω	27300	5	27300	5	27300	65	-	-

Audio level plan: Measuring conditions: Noise limiter "Off"; full volume; coupling capacitor 5-Ω resistor, corresponding to 3 mw into hearing aid

Hot-end Volume control R323		G ₁ /V304a/ECC-82	
Frequency (c/s)	Voltage (mv)	Frequency (c/s)	Vltg (mv)
1000	32	1000	28

manual gain control off; RF voltages for audio output power 50 mw \pm 0.5 v across generator $Z_1 = 60 \Omega$; coupling capacitor 10,000 μf

90 t.)	$G_3 / V202 / EK-90$		$G_1 / V301 / EK-93$		$G_1 / V302 / EF93$		Notes
	Frequency (kc/s)	Volt. (μv)	Frequency (kc/s)	Volt. (μv)	Frequency (kc/s)	Volt. (μv)	
5	-	-	100	0,8	-	-	Bandwidth control at "A1"; signal generator unmodulated; BFO set for about 1000 c/s
5	-	-	100	0,8	-	-	
-	-	-	-	-	100	40	
-	1180	0,9	-	-	100	40	Bandwidth control at "A2/A3 Narrow"; Signal generator 1000 c/s; 30% modulation
-	-	-	-	-	100	40	
-	1180	0,9	-	-	100	40	
-	1180	0,9	-	-	100	40	
-	1180	0,9	-	-	100	40	
-	1180	0,9	-	-	100	40	
-	1180	0,9	-	-	100	40	
-	1180	0,9	-	-	100	40	

ng capacitor 0.1 μf ; audio voltages for 50 mw \pm 0.5 v across internal loudspeaker or headphone jack with 10-k Ω load

$G_1 / V304b / ECC-82$		$G_1 / V308 / EL-90$	
Frequency (c/s)	Vltg (mv)	Frequency (c/s)	Vltg (mv)
1000	270	1000	1900