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84.....	206	AM1	216	CY2	233
85.....	206	AM2	216	CY31	233
866.....	206	APV4100	216	CY32	233
884.....	206	AX1.....	217	D121	234
885.....	207	AX50.....	217	D143	234
89.....	207	AZ1	217	D404	235
8AU8.....	208	AZ11.....	217	D410	235
8AW8.....	208	AZ12.....	217	D61	235
8BA8.....	208	AZ21.....	217	D77	236
8BH8.....	208	AZ3.....	218	DA90	236
8BN8.....	208	AZ31.....	218	DAC21	236
8BQ5.....	208	AZ32.....	218	DAC25	236
8CG7.....	208	AZ33.....	218	DAC32	236
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8CN7.....	209	AZ41.....	218	DAF40	237
8CS7.....	209	AZ50.....	218	DAF41	237
8CX8.....	209	B2006	219	DAF91	237
8D8.....	209	B2038	219	DAF96	237
8EB8.....	209	B2041	219	DAH50	237
8EM5.....	209	B2042	220	DBC21	238
8ET7.....	210	B2043	220	DC11	238
8FQ7.....	210	B2044	220	DC25	238
8GN8.....	210	B2044S	220	DC80	238
8HG8.....	210	B2045	221	DC90	238
8JV8.....	210	B2046	221	DC93	238
8KA8.....	210	B2047	221	DC96	239
8LC8.....	210	B2048	221	DCC90	239
9001.....	210	B2049	222	DCH11	239
9002.....	211	B2052T	222	DCH25	239
9003.....	211	B2099	222	DDD25	239
9006.....	211	BF451	222	DF11	239
950.....	211	BF61	223	DF21	240
9A8	211	BF62	223	DF22	240
9AB4.....	211	C/EM2	223	DF25	240
9AK8.....	211	C142	223	DF33	240
9AQ8.....	211	C243N	224	DF65	240
9AU7.....	211	C405	224	DF66	241
9BR7.....	211	C408	224	DF67	241
9BW6.....	212	C443	224	DF703	241
9CL8.....	212	C334N	225	DF91	241
9D6.....	212	C453	225	DF92	241
9D7.....	212	CB1	225	DF96	241
9FG6.....	212	CB2	225	DF97	242
9JW8.....	212	CBC1	225	DK21	242
9U8.....	212	CBL1	226	DK32	242
AA61.....	213	CBL31	226	DK40	242
AB1.....	213	CBL6	226	DK91	242
AB2.....	213	CC2	226	DK92	242
ABC1.....	213	CCH1	226	DK96	242
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DL41	243	EA50.....	257	ECC82.....	267
DL65	243	EAA11.....	257	ECC83.....	267
DL66	243	EAA901S.....	257	ECC84.....	267
DL67	244	EAA91.....	257	ECC85.....	268
DL71	244	EAB1.....	257	ECC86.....	268
DL72	244	EABC80.....	258	ECC87.....	268
DL91	244	EAC91.....	258	ECC88.....	268
DL92	244	EAF41.....	258	ECC91.....	268
DL93	245	EAF42.....	258	ECF1	268
DL94	245	EAF801.....	258	ECF200.....	268
DL95	245	EAM86.....	258	ECF201.....	269
DL96	245	EB1.....	259	ECF80.....	269
DLL21	245	EB11.....	259	ECF801.....	269
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DM70	246	EB4.....	259	ECF83.....	269
DM71	246	EB40.....	259	ECF86.....	269
DY30	246	EB41.....	259	ECH11.....	269
DY51	246	EB91.....	260	ECH200.....	270
DY80	246	EBC11.....	260	ECH21.....	270
DY86	246	EBC3.....	260	ECH3.....	270
DY87	246	EBC33.....	260	ECH33.....	270
E	247	EBC41.....	260	ECH35.....	270
E180F	247	EBC81.....	260	ECH4.....	270
E188CC	247	EBC90.....	260	ECH41.....	271
E280F	247	EBC91.....	261	ECH42.....	271
E283CC	247	EBF1	261	ECH71.....	271
E288CC	247	EBF11.....	261	ECH81.....	271
E406N	248	EBF15.....	261	ECH83.....	271
E408N	248	EBF2	261	ECH84.....	271
E409	248	EBF32.....	262	ECH84A.....	271
E415	248	EBF80.....	262	ECL11	272
E424	249	EBF83.....	262	ECL113.....	272
E424N	249	EBF89.....	262	ECL80	272
E425	249	EBL1.....	262	ECL82	272
E428	249	EBL21.....	262	ECL84	272
E438	250	EBL31.....	263	ECL85	272
E441	250	EBL71.....	263	ECL86	272
E442	250	EC2	263	ECLL800	273
E442S	251	EC31	263	ED500	273
E443H	251	EC50	263	EDD11	273
E443N	251	EC70	264	EE1	273
E444	251	EC80	264	EE50	274
E444S	252	EC806S	264	EEP1	274
E445	252	EC81	264	EF1	274
E446	252	EC84	264	EF11	274
E447	252	EC86	264	EF12	275
E448	253	EC88	265	EF12S	275
E449	253	EC90	265	EF13	275
E452T	253	EC903	265	EF14	275
E453	253	EC91	265	EF15	275
E455	254	EC92	265	EF183	275
E462	254	EC93	265	EF184	276
E463	254	EC95	265	EF2	276
E499	254	EC97	265	EF22	276
E80CC	255	ECC186	266	EF36	276
E80F	255	ECC189	266	EF37	276
E80L	255	ECC32	266	EF39	277
E180F	255	ECC33	266	EF40	277
E81L	256	ECC34	266	EF41	277
E83F	256	ECC35	266	EF42	277
E86C	256	ECC40	266	EF43	277
E90CC	256	ECC807	267	EF5	278
E90F	256	ECC808	267	EF50	278

EF51	278	EL803	290	G84	301
EF54	278	EL804	290	GR4	302
EF55	278	EL81	290	GU1	302
EF6	278	EL82	290	GU5	302
EF8	279	EL83	290	GY501	302
EF80	279	EL84	291	GZ32	302
EF800	279	EL86	291	GZ34	302
EF802	279	EL88	291	GZ40	303
EF804	279	EL89	291	HABC80	303
EF805S	279	EL90	291	HBC91	303
EF806S	280	EL91	291	HCH81	303
EF83	280	EL95	292	HF121	303
EF85	280	ELL1	292	HF61	305
EF86	280	ELL80	292	HF62	305
EF87	280	EM1	292	HF93	305
EF88	280	EM11	292	HF94	305
EF89	281	EM3	292	HK90	305
EF9	281	EM34	293	HL90	305
EF91	281	EM35	293	HL94	306
EF92	281	EM4	293	HM85	306
EF93	281	EM5	293	KB2	306
EF94	282	EM71	293	KBC1	306
EF95	282	EM80	293	KBC32	306
EF96	282	EM81	293	KC1	306
EF97	282	EM84	294	KC3	306
EF98	282	EM840	294	KC4	307
EFF50	282	EM84A	294	KCH1	307
EFF51	283	EM85	294	KDD1	307
EFL200	283	EM87	294	KF2	307
EFM1	283	EMM801	294	KF3	307
EFM11	283	EMM803	294	KF35	307
EFP60	283	EQ40	295	KF4	308
EH2	284	EQ80	295	KH1	308
EH90	284	EW60	295	KK2	308
EK1	284	EY1	295	KL1	308
EK2	284	EY51	295	KL2	308
EK3	284	EY80	295	KL35	309
EK32	285	EY81	296	KL4	309
EK90	285	EY82	296	KL5	309
EL1	285	EY83	296	KT66	309
EL11	285	EY84	296	ME4	309
EL12	285	EY86	296	ME6	309
EL156	286	EY87	296	PABC80	310
EL2	286	EY88	296	PC86	310
EL3	286	EY91	297	PC88	310
EL32	286	EZ1	297	PC900	310
EL33	286	EZ11	297	PC92	310
EL34	286	EZ12	297	PC93	310
EL35	287	EZ150	297	PC95	310
EL36	287	EZ2	297	PC96	311
EL37	287	EZ22	297	PC97	311
EL38	287	EZ3	298	PCC189	311
EL39	287	EZ35	298	PCC84	311
EL3N	288	EZ4	298	PCC85	311
EL41	288	EZ40	298	PCC88	311
EL42	288	EZ41	298	PCF200	311
EL44	288	EZ80	298	PCF201	312
EL5	289	EZ81	298	PCF80	312
EL50	289	EZ90	299	PCF801	312
EL500	289	F215	299	PCF802	312
EL503	289	F410	299	PCF803	312
EL51	289	F443N	299	PCF82	312
EL6	289	F460	301	PCF86	312
EL60	290	F704	301	PCH200	313
EL8	290	FZ1	301	PCL81	313

PCL82.....	313	RV200/600	319	UL12.....	332
PCL84.....	313	SP41.....	319	UL2.....	332
PCL85.....	313	SP61.....	319	UL41.....	332
PCL86.....	313	TA31.....	320	UL44.....	333
PD500.....	313	U78.....	320	UL84.....	333
PF83.....	314	UAA91	320	UM34.....	333
PF86.....	314	UABC80	320	UM35.....	333
PFL200.....	314	UAF41	321	UM4.....	333
PL36.....	314	UAF42	321	UM80.....	333
PL500.....	314	UB41	321	UM84.....	334
PL505.....	314	UBC41.....	322	UM85.....	334
PL508.....	314	UBC81.....	322	UQ80.....	334
PL81.....	315	UBF11.....	322	UY11.....	334
PL82.....	315	UBF80.....	322	UY1N.....	334
PL83.....	315	UBF89.....	323	UY2	334
PL84.....	315	UBL1	323	UY21	334
PLL80.....	315	UBL21	323	UY3	335
PM84.....	315	UBL3	323	UY31	335
PV100/2000.....	315	UBL71	324	UY4	335
PV200/600.....	316	UC92	324	UY41	335
PV4.....	316	UCC85.....	324	UY42	335
PV400.....	316	UCH11.....	324	UY82	335
PV4100.....	316	UCH21.....	325	UY85	335
PV4200.....	316	UCH4.....	325	UY89	336
PV4201.....	316	UCH41.....	325	UY92	336
PV430.....	316	UCH42.....	326	V20.....	336
PV4300.....	317	UCH5.....	326	V2018.....	336
PV475.....	317	UCH71.....	326	V2118.....	336
PV480.....	317	UCH81.....	327	V30.....	336
PV495.....	317	UCL11	327	V311	337
PV75/1000.....	317	UCL81	327	V312	337
PY31.....	317	UCL82	327	V41	337
PY500.....	317	UF11.....	328	V51	337
PY80.....	318	UF21.....	328	V61	338
PY81.....	318	UF41.....	329	V99	338
PY82.....	318	UF42.....	329	VCH11.....	338
PY83.....	318	UF43.....	329	VF14.....	338
PY88.....	318	UF5.....	330	VY1	338
R17.....	318	UF6.....	330	VY2	338
R18.....	318	UF80.....	330	VY2N.....	339
RV120/250	319	UF85.....	330	X78.....	339
RV120/350	319	UF89.....	331	X79.....	339
RV120/500	319	UF9.....	331	X99.....	339
RV12P2000	319	UFM11.....	332	Z77	339

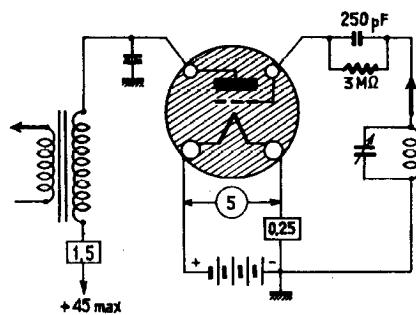
00A

t°

00A

D

S = 0,6
P = 30.000



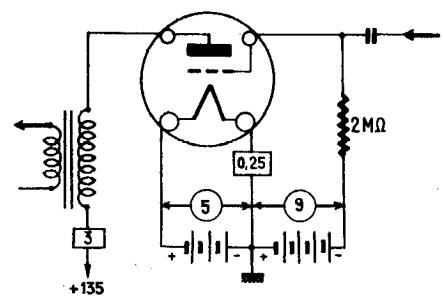
01A

t

01A

BF

S = 0,8
P = 10.000
V = -9

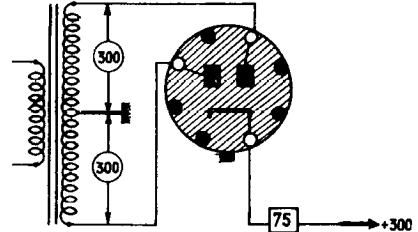


024

rr°

024

R

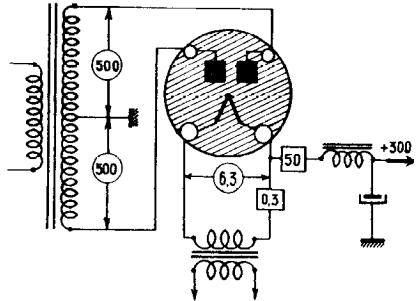


1

rr°

1

R

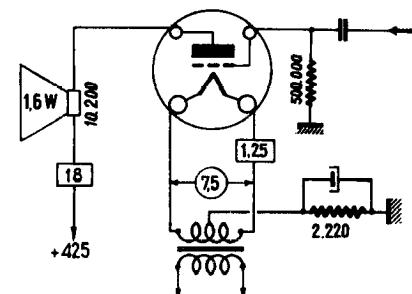


10

T

10

P

 $S = 1,6$
 $P = 5,000$
 $V = -40$
**10AL11**

pP

10AL11 A

 $S = 1 \text{ mA/V}$
 $\mu g_1 g_2 =$
 $R_i = 150 \text{ k}$
 $P_a = \text{max. } 1,7 \text{ W}$

B

 $S = 6,5 \text{ mA/V}$
 $V_{g1} = -8 \text{ V}$
 $\mu g_1 g_2 =$
 $R_i = 100 \text{ k}$
 $P_a = \text{max. } 10 \text{ W }$ 12DP**10C8**

tp

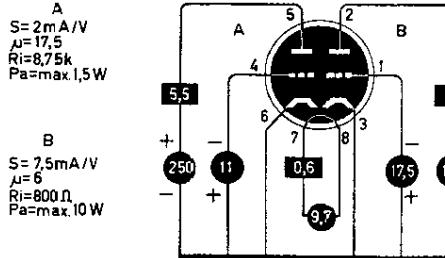
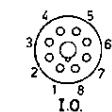
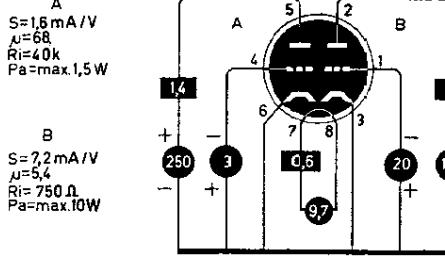
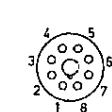
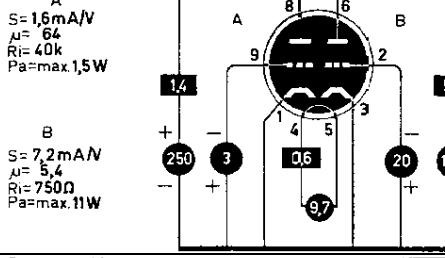
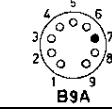
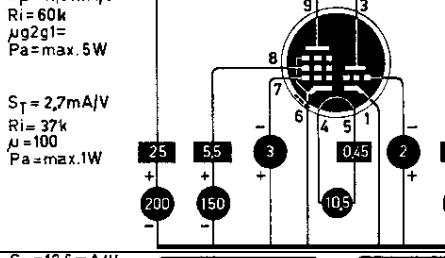
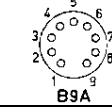
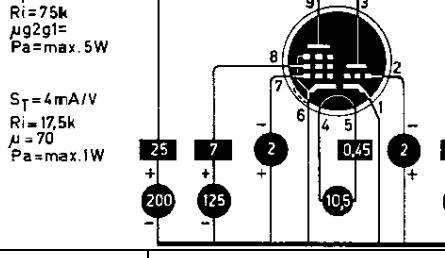
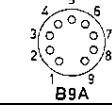
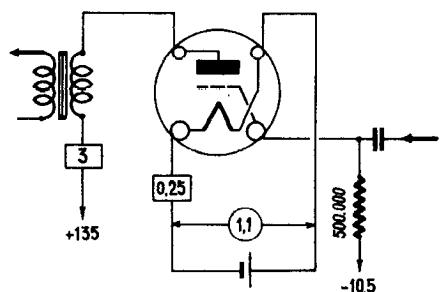
 $S_p = 8 \text{ mA/V}$
 $R_i = 190 \text{ k}$
 $\mu g_2 g_1 = 40$
 $P_a = \text{max. } 2,2 \text{ W}$
 $S_T = 4,4 \text{ mA/V}$
 $R_i = 12 \text{ k}$
 $\mu = 53$
 $P_a = \text{max. } 2 \text{ W}$
10D1

dd

 $V_d = \text{max. } 50 \text{ V}$
 $I_d = \text{max. } 0.8 \text{ mA}$
10DE7

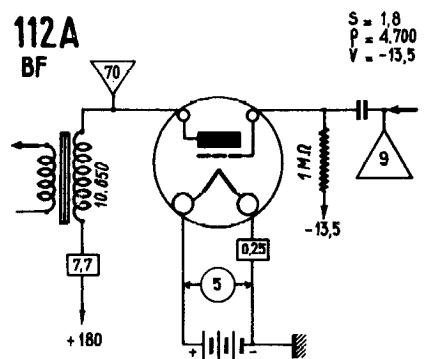
tt

 A
 $S = 6,5 \text{ mA/V}$
 $\mu = 6$
 $R_i = 925 \Omega$
 $P_a = \text{max. } 5,5 \text{ W}$
 B
 $S = 2 \text{ mA/V}$
 $\mu = 17,5$
 $R_i = 8,75 \text{ k}$
 $P_a = \text{max. } 1,2 \text{ W}$
 $R_{eq} =$

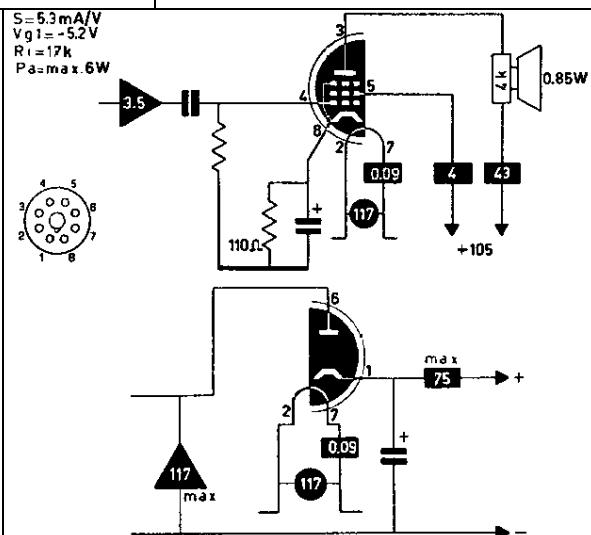
10EG7 tt	<p>A $S=7,5\text{mA/V}$ $\mu=17,5$ $R_i=8,75\text{k}\Omega$ $P_a=\text{max.}1,5\text{W}$</p> <p>B $S=7,5\text{mA/V}$ $\mu=6$ $R_i=800\Omega$ $P_a=\text{max.}10\text{W}$</p>  
10EM7 tt	<p>A $S=1,6\text{mA/V}$ $\mu=68$ $R_i=40\text{k}\Omega$ $P_a=\text{max.}1,5\text{W}$</p> <p>B $S=7,2\text{mA/V}$ $\mu=5,4$ $R_i=750\Omega$ $P_a=\text{max.}10\text{W}$</p>  
10GF7 tt	<p>A $S=1,6\text{mA/V}$ $\mu=64$ $R_i=40\text{k}\Omega$ $P_a=\text{max.}1,5\text{W}$</p> <p>B $S=7,2\text{mA/V}$ $\mu=5,4$ $R_i=750\Omega$ $P_a=\text{max.}11\text{W}$</p>  
10GN8 tp	<p>$S_p=11,5\text{mA/V}$ $R_i=60\text{k}\Omega$ $\mu g_2 g_1=$ $P_a=\text{max.}5\text{W}$</p> <p>$S_T=2,7\text{mA/V}$ $R_i=37\text{k}\Omega$ $\mu=100$ $P_a=\text{max.}1\text{W}$</p>  
10HF8 tp	<p>$S_p=12,5\text{mA/V}$ $R_i=75\text{k}\Omega$ $\mu g_2 g_1=$ $P_a=\text{max.}5\text{W}$</p> <p>$S_T=4\text{mA/V}$ $R_i=17,5\text{k}\Omega$ $\mu=70$ $P_a=\text{max.}1\text{W}$</p>  
11 t	11 BF $S = 0,44$ $P = 15.000$ $V = -10,5$
	

112A

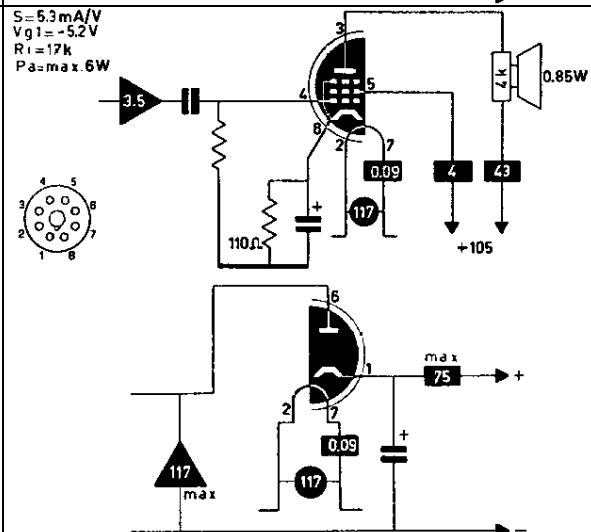
t

**117L7**

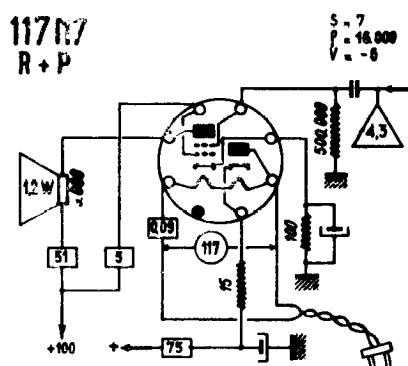
rP

**117M7**

rP

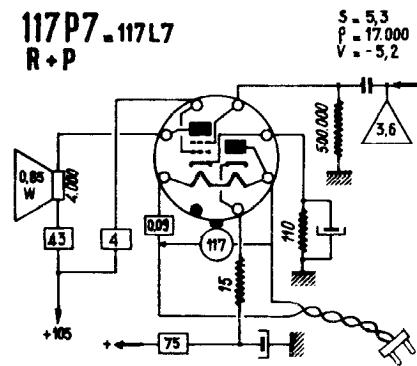
**117N7**

rP

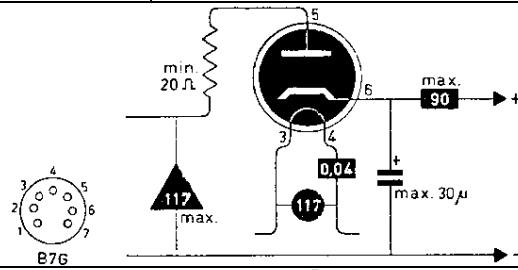


117P7

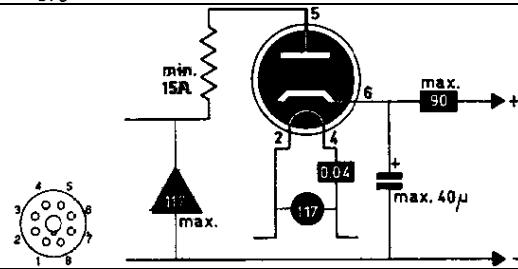
rP

**117P7 + 117L7
R + P****117Z3**

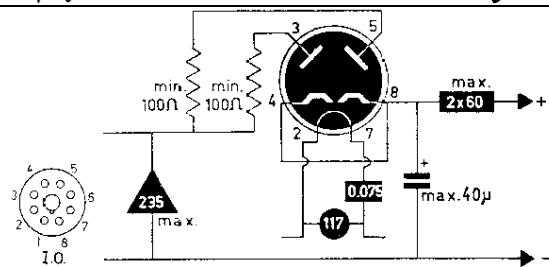
r

**117Z4**

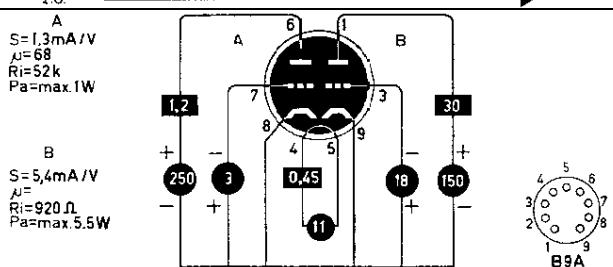
r

**117Z6**

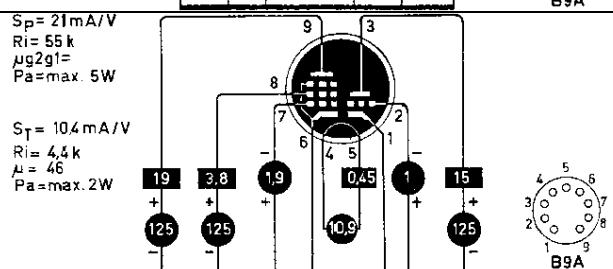
rr

**11CY7**

tt

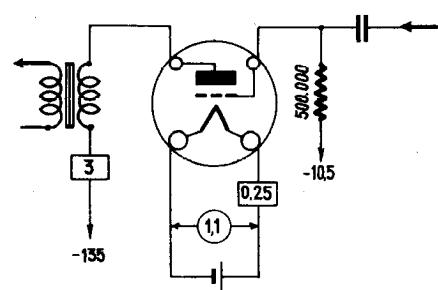
**11LQ8**

tp

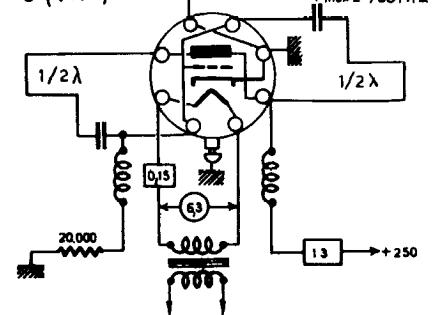


12

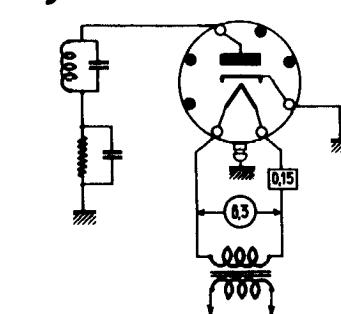
t

12**BF**
 $S = 0,44$
 $P = 15,000$
 $V = -10,5$
**1201**

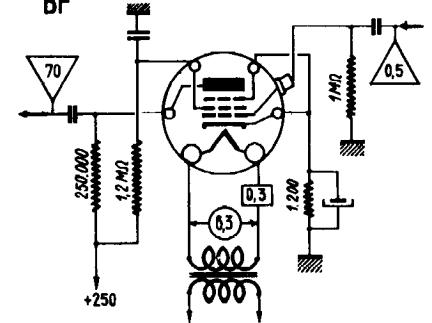
t

1201-7E5**1203**

d

1203-7C4**1221**

p

1221-6C6**BF**
 $S = 1,225$
 $P = 1\text{ M}\Omega$
 $V = -3$


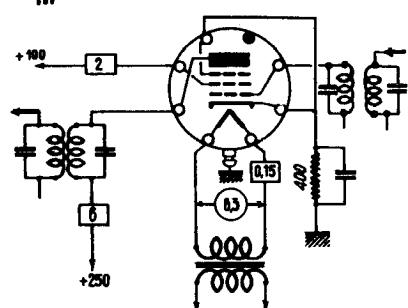
1232

p

1232 - 767

HF

P = 800.000
V = -2

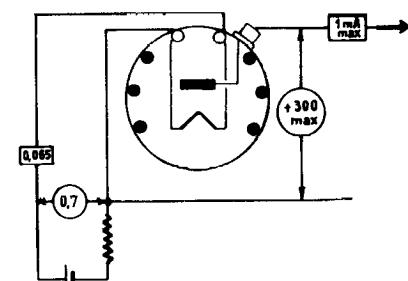


1247

d

1247

M

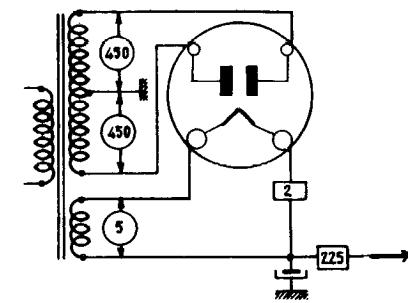


1275

rr

1275

R



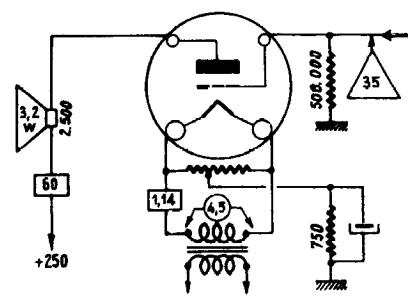
1276

T

1276 - 6A3

P

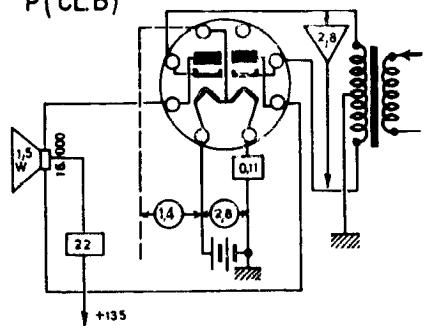
S = 5.2
P = 800
V = -45



1291

tt

1291-3B7
P (CL.B)

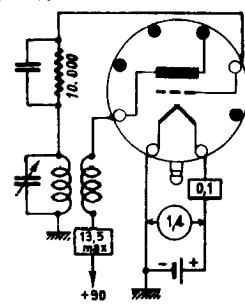


1293

t

1293
0 (OTC)

S = 1,5
V = 0

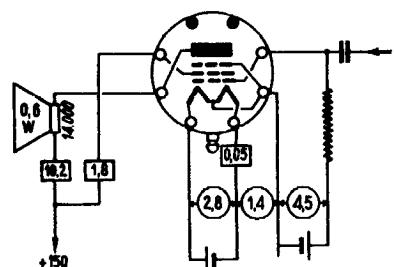


1299

P

1299-306
P

S = 2,4
V = -4,5

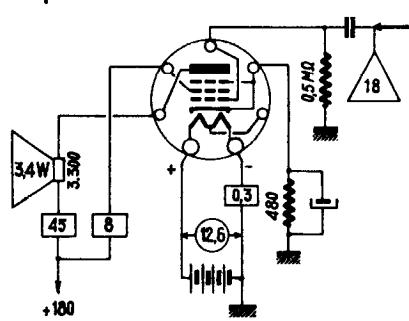


12A5

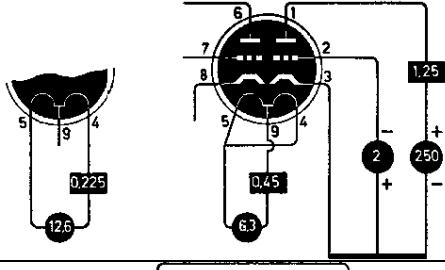
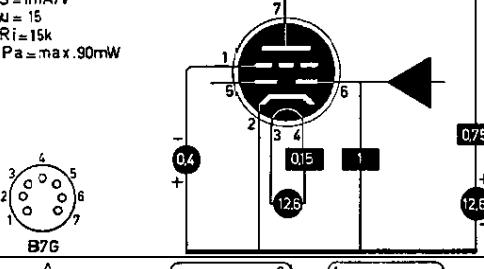
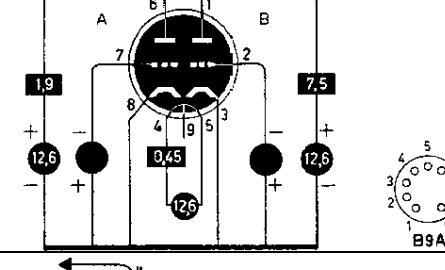
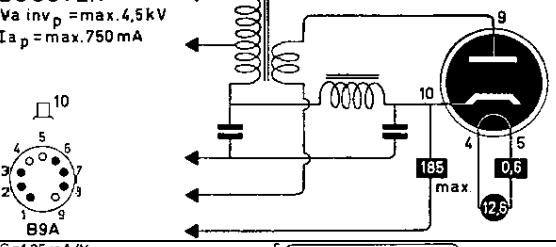
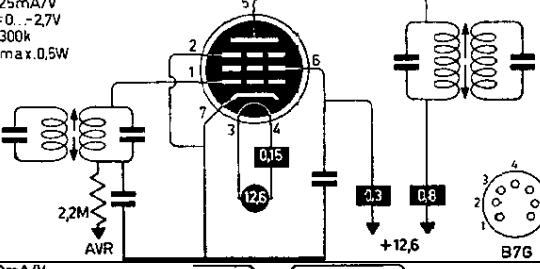
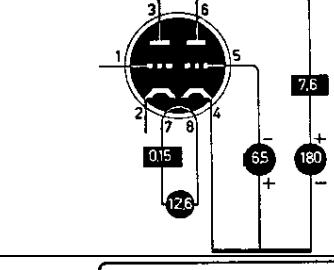
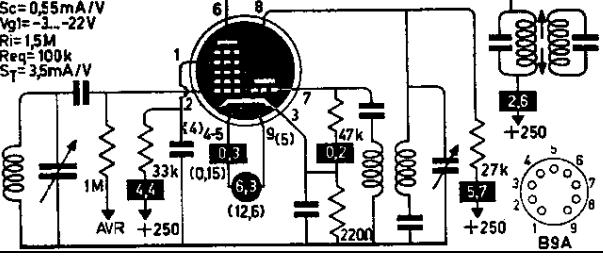
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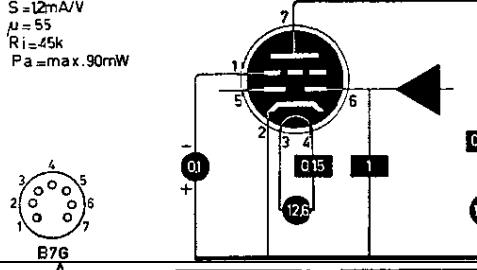
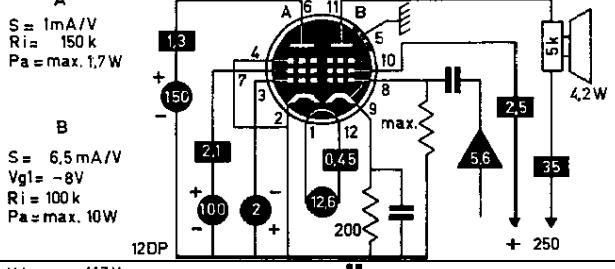
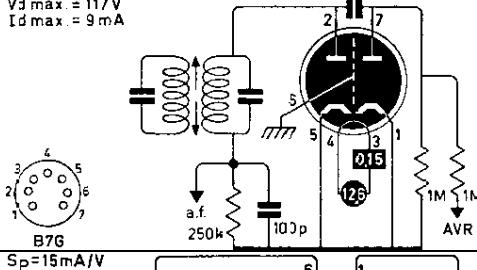
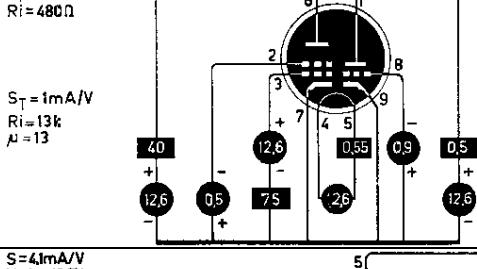
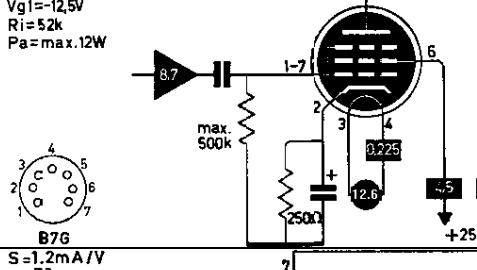
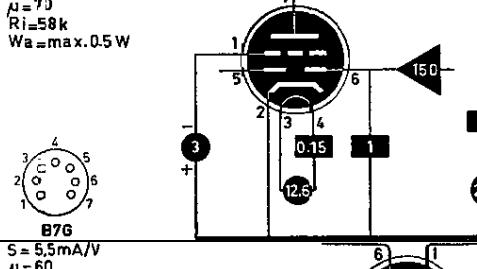
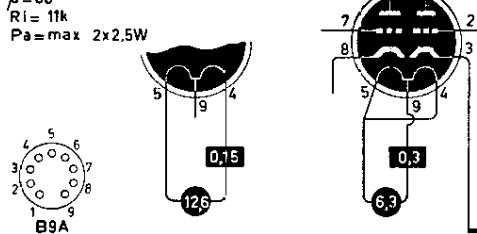
12A5
P

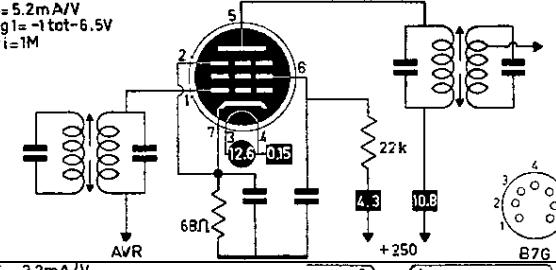
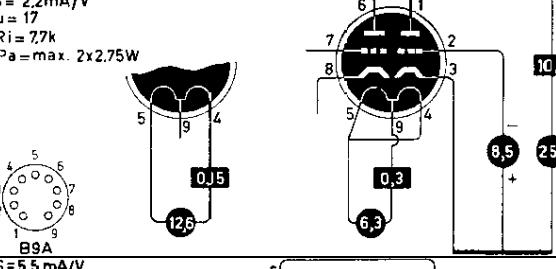
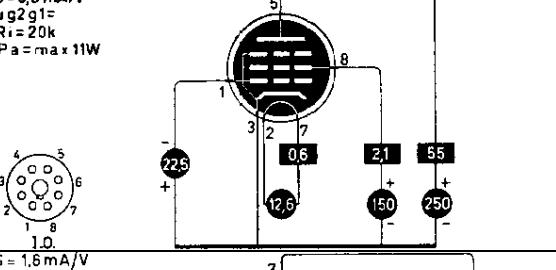
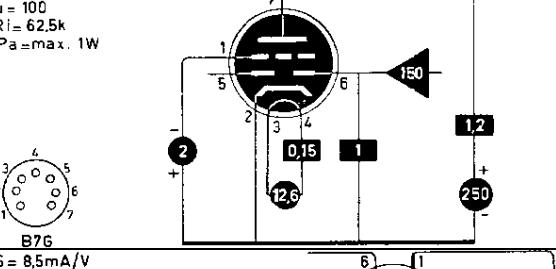
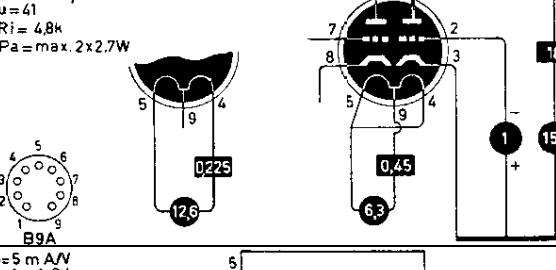
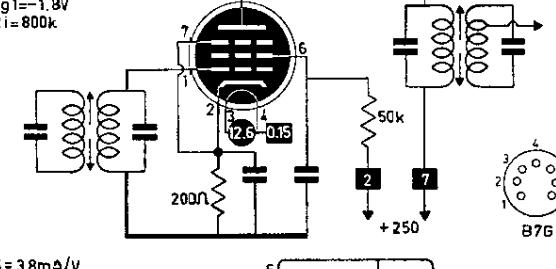
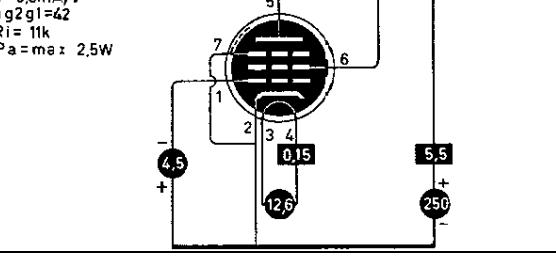
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P = 35.000
V = -25

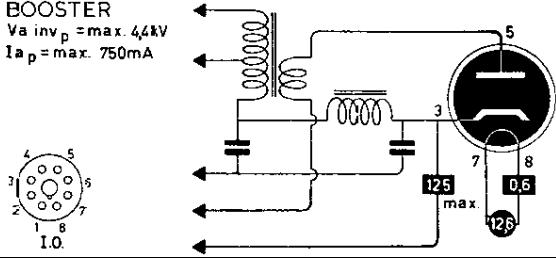
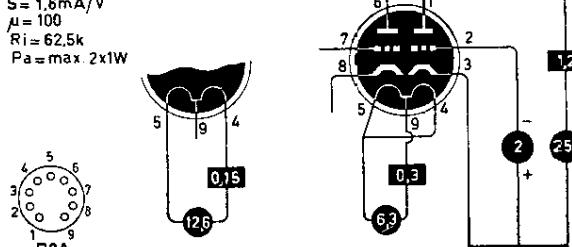
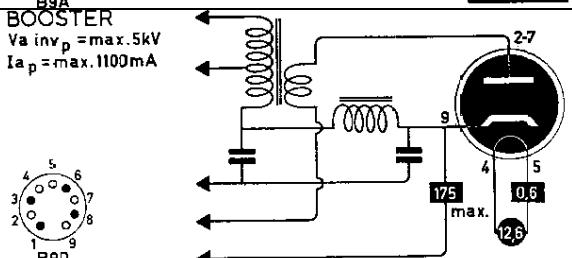
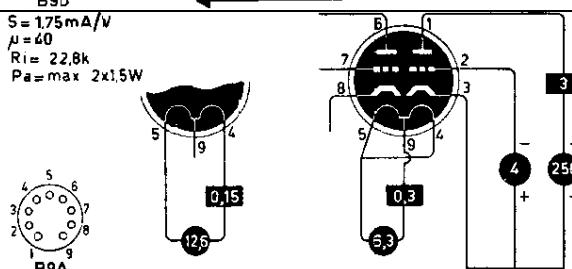
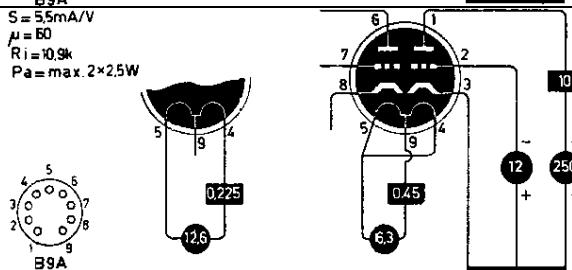
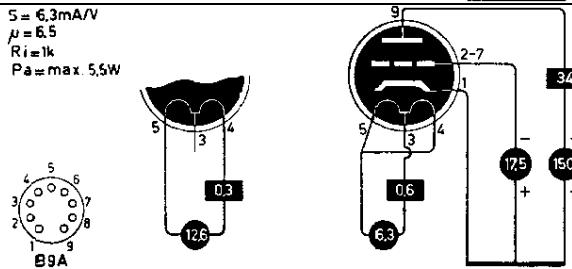


12A6 P	<p>$S=3\text{ mA/V}$ $V_{g1}=-12.5\text{ V}$ $R_i=70\text{ k}$ $P_a=7.5\text{ W}$ max.</p>
12A7 rP	<p>$S=1\text{ mA/V}$ $V_{g1}=-13.5\text{ V}$</p>
12A8 H	<p>$S_c=550\text{ }\mu\text{A/V}$ $V_{g4}=-3\dots-35\text{ V}$ $R_i=300\text{ k}$</p>
12AB5 P	<p>$S=4\text{ mA/V}$ $V_{g1}=-12.5\text{ V}$ $R_i=50\text{ k}$ $P_a=\text{max. }12\text{ W}$</p>
12AC5	=UF41
12AC6 p	<p>$S=0.73\text{ mA/V}$ $V_{g1}=0\dots-5.2\text{ V}$ $R_i=500\text{ k}$ $P_a=\text{max. }0.5\text{ W}$</p>
12AD6 H	<p>$S_c=260\text{ }\mu\text{A/V}$ $V_{g3}=0\dots-2.2\text{ V}$ $R_i=1\text{ M}$</p>

12AD7 tt	S=1,6mA/V $\mu=100$ $R_i=62,5k$ $P_a=\text{max. } 2 \times 1W$  
12AE6 ddt	S=1mA/V $\mu=15$ $R_i=15k$ $P_a=\text{max. } 90mW$  
12AE7 tt	A S=4mA/V $\mu=13$ $R_i=3,15k$ $P_a=\text{max. } 1W$ B S=6,5mA/V $\mu=6,4$ $R_i=985 \Omega$ $P_a=\text{max. } 1W$  
12AF3 R	BOOSTER $V_{a\text{ inv}_p}=\text{max. } 4,5kV$ $I_{a_p}=\text{max. } 760mA$  
12AF6 p	S=1,25mA/V $V_{g1}=0...-2,7V$ $R_i=300k$ $P_a=\text{max. } 0,5W$  
12AH7 tt	S=1,9mA/V $\mu=16$ $R_i=8,4k$ $P_a=\text{max. } 2 \times 1,5W$  
12AH8 tH	$S_c=0,55mA/V$ $V_{g1}=-3...-22V$ $R_i=1,5M$ $R_{eq}=100k$ $S_T=3,5mA/V$  

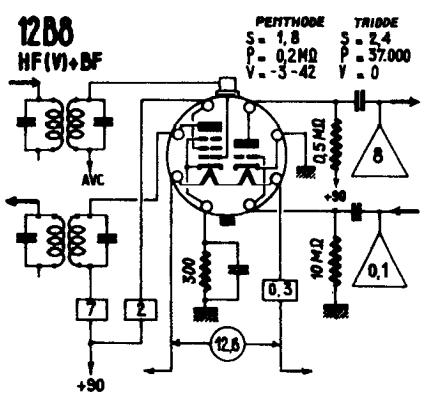
12AJ6 ddt	<p>$S = 12 \text{ mA/V}$ $\mu = 55$ $R_i = 45 \text{ k}\Omega$ $P_a = \text{max. } 90 \text{ mW}$</p>  <p>B7G</p>
12AL11 pP	<p>A $S = 1 \text{ mA/V}$ $R_i = 150 \text{ k}\Omega$ $P_a = \text{max. } 1.7 \text{ W}$</p> <p>B $S = 6.5 \text{ mA/V}$ $V_{g1} = -8 \text{ V}$ $R_i = 100 \text{ k}\Omega$ $P_a = \text{max. } 10 \text{ W}$</p>  <p>12DP</p>
12AL5 dd	<p>$V_d \text{ max.} = 117 \text{ V}$ $I_d \text{ max.} = 9 \text{ mA}$</p>  <p>B7G</p>
12AL8 tq	<p>$S_p = 15 \text{ mA/V}$ $R_i = 480 \Omega$</p> <p>$S_T = 1 \text{ mA/V}$ $R_i = 13 \text{ k}\Omega$ $\mu = 13$</p>  <p>B9A</p>
12AQ5 P	<p>$S = 4 \text{ mA/V}$ $V_{g1} = -12.5 \text{ V}$ $R_i = 52 \text{ k}\Omega$ $P_a = \text{max. } 12 \text{ W}$</p>  <p>B7G</p>
12AT6 ddt	<p>$S = 1.2 \text{ mA/V}$ $\mu = 70$ $R_i = 58 \text{ k}\Omega$ $W_a = \text{max. } 0.5 \text{ W}$</p>  <p>B7G</p>
12AT7 tt	<p>$S = 5.5 \text{ mA/V}$ $\mu = 60$ $R_i = 11 \text{ k}\Omega$ $P_a = \text{max. } 2 \times 2.5 \text{ W}$</p>  <p>B9A</p>

12AU6 p	S = 5.2 mA/V $\mu g_2 g_1 = -1$ $R_i = 1M$	
12AU7 tt	S = 2.2 mA/V $\mu = 17$ $R_i = 7.7k$ $P_a = \text{max. } 2 \times 2.75W$	
12AV5 P	S = 5.5 mA/V $\mu g_2 g_1 = -1$ $R_i = 20k$ $P_a = \text{max. } 11W$	
12AV6 ddt	S = 1.6 mA/V $\mu = 100$ $R_i = 62.5k$ $P_a = \text{max. } 1W$	
12AV7 tt	S = 8.5 mA/V $\mu = 41$ $R_i = 4.8k$ $P_a = \text{max. } 2 \times 2.7W$	
12AW6 p	S = 5 mA/V $\mu g_2 g_1 = -1.8V$ $R_i = 800k$	
	S = 3.8 mA/V $\mu g_2 g_1 = 42$ $R_i = 11k$ $P_a = \text{max. } 2.5W$	

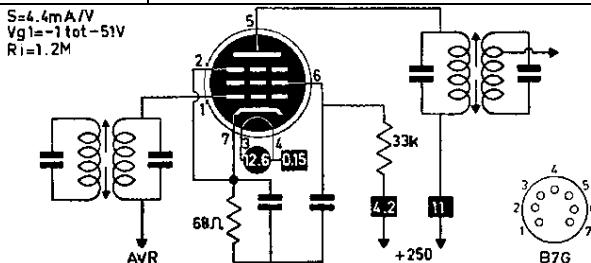
12AX4 R	BOOSTER $V_a \text{ inv}_p = \text{max. } 4,4\text{kV}$ $I_a p = \text{max. } 750\text{mA}$	
12AX7 tt	$S = 1,6\text{mA/V}$ $\mu = 100$ $R_i = 62,5\text{k}\Omega$ $P_a = \text{max. } 2 \times 1\text{W}$	
12AY3 R	BOOSTER $V_a \text{ inv}_p = \text{max. } 5\text{kV}$ $I_a p = \text{max. } 1100\text{mA}$	
12AY7 tt	$S = 1,75\text{mA/V}$ $\mu = 40$ $R_i = 22,8\text{k}\Omega$ $P_a = \text{max. } 2 \times 1,5\text{W}$	
12AZ7 tt	$S = 5,5\text{mA/V}$ $\mu = 60$ $R_i = 10,9\text{k}\Omega$ $P_a = \text{max. } 2 \times 2,5\text{W}$	
12B4A t	$S = 6,3\text{mA/V}$ $\mu = 6,5$ $R_i = 1\text{k}\Omega$ $P_a = \text{max. } 5,5\text{W}$	

12B8

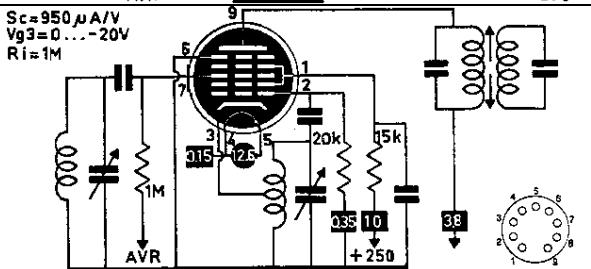
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**12BA6**

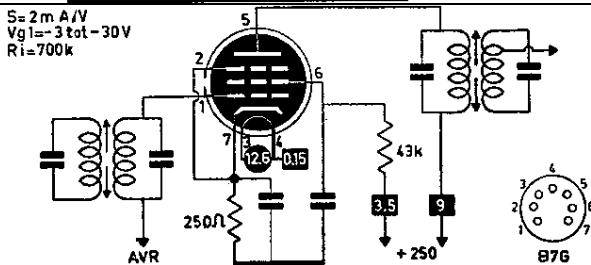
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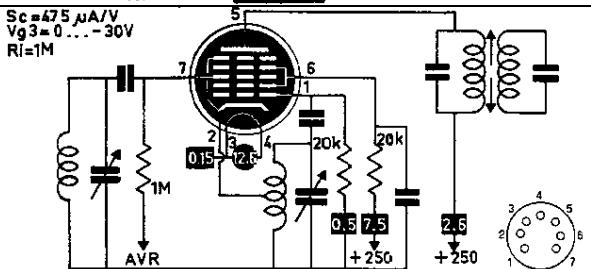
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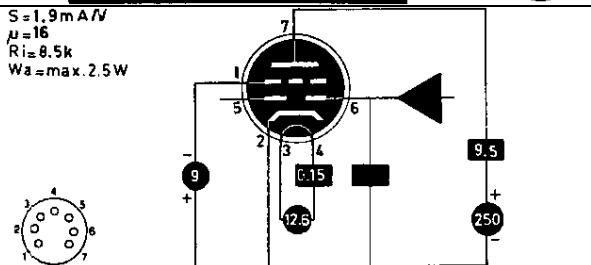
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**12BE6**

H

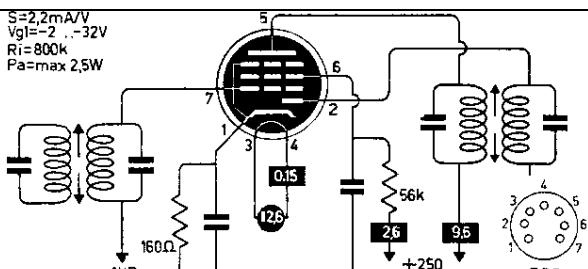
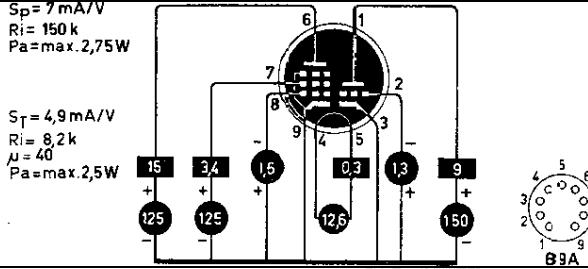
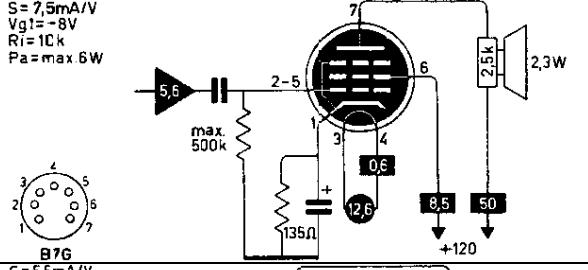
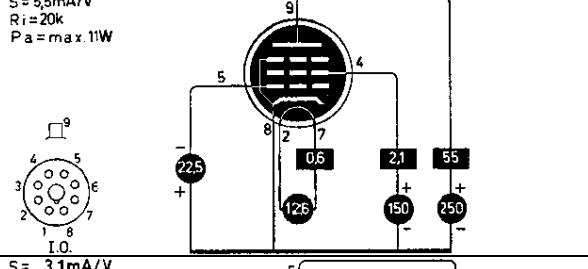
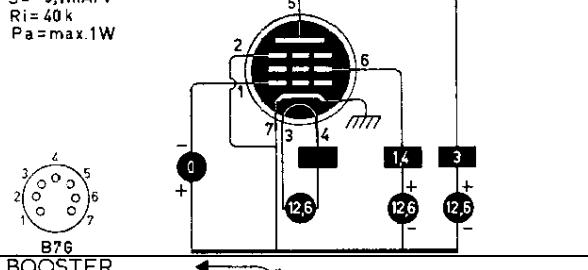
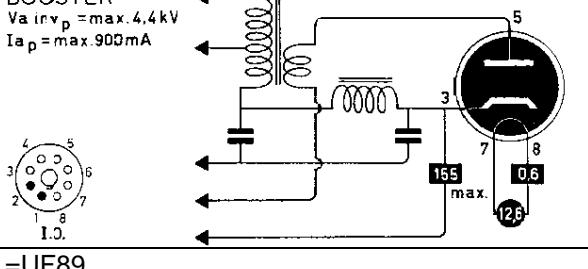
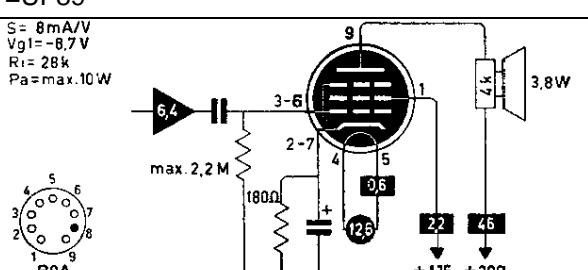
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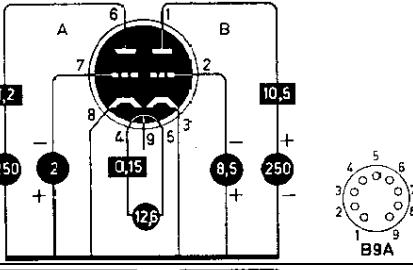
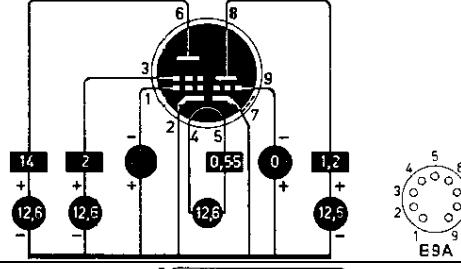
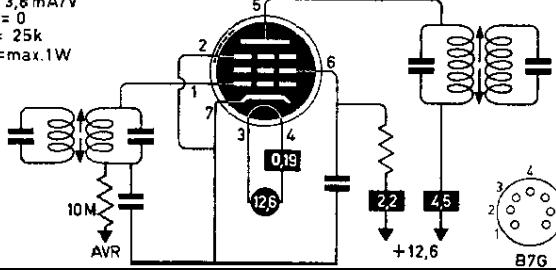
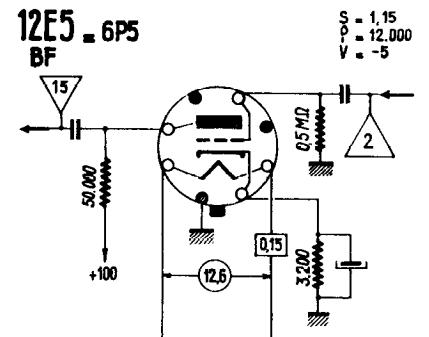
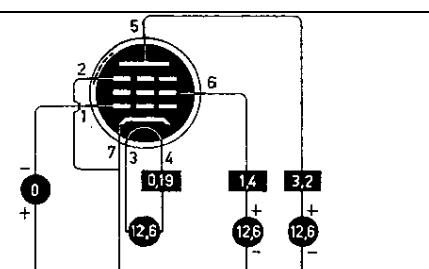
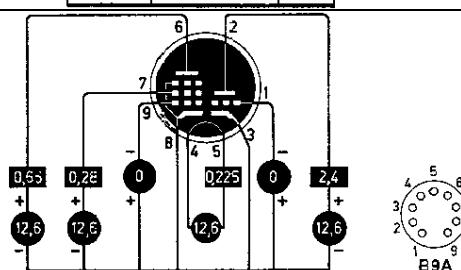


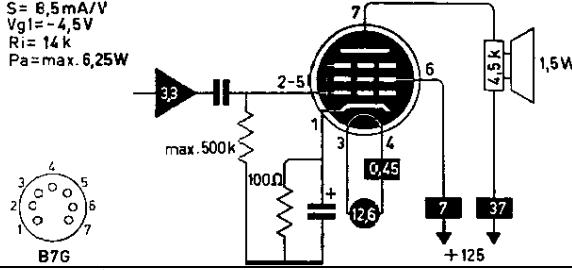
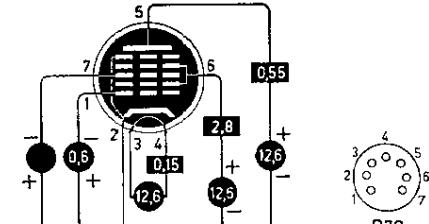
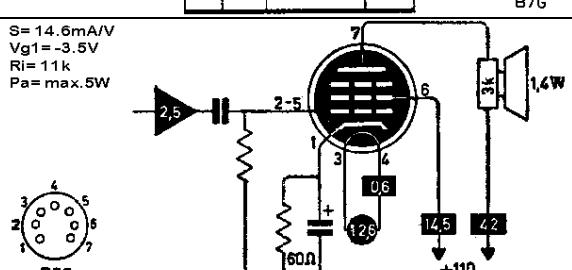
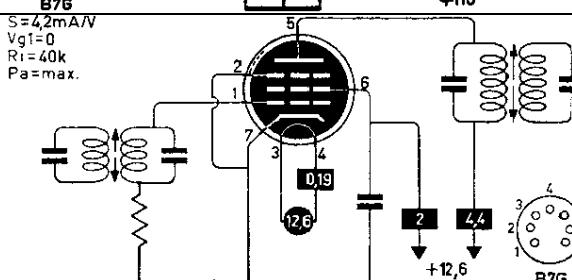
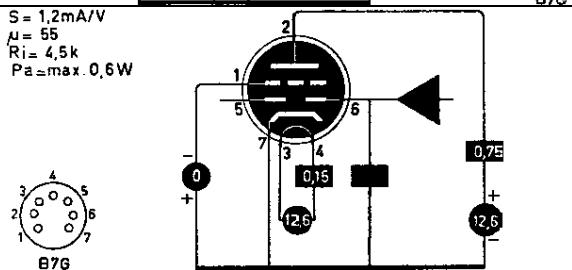
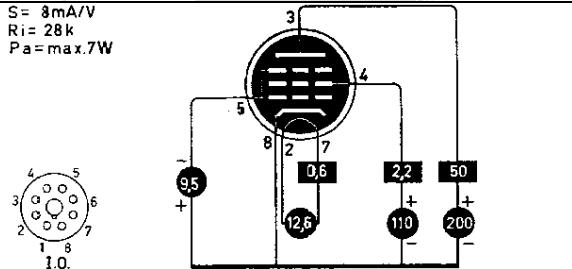
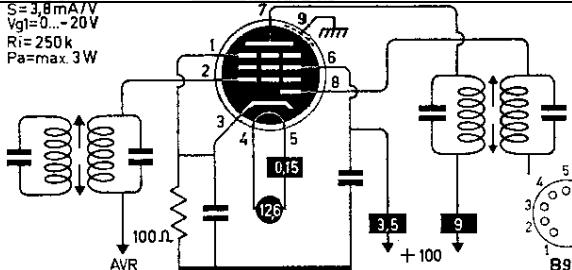
12BH7 tt	S = 31mA/V $\mu = 16,5$ $R_i = 5,3k$ $P_a = \text{max } 2,3,5W$	
12BK5 P	S = 85mA/V $V_{g1} = -5V$ $R_i = 100k$ $P_a = \text{max } 9W$	
12BL6 p	S = 1,35mA/V $V_{g1} = 0...-6V$ $R_i = 500k$ $P_a = \text{max } 0,5W$	
12BQ6 P	S = 5,5mA/V $R_i = 20k$ $P_a = \text{max } 11W$	
12BR7 ddt	S = 55mA/V $\mu = 60$ $R_i = 10,9k$ $P_a = \text{max } 2,5W$	
12BS3 R	BOOSTER $V_a \text{ inv}_p = \text{max. } 5kV$ $I_a p = \text{max. } 1100mA$	
12BV7 p	S = 13mA/V $R_i = 85k$ $P_a = \text{max } 6,25W$	

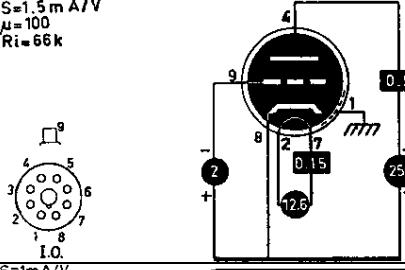
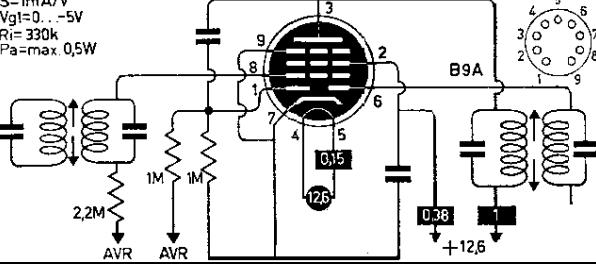
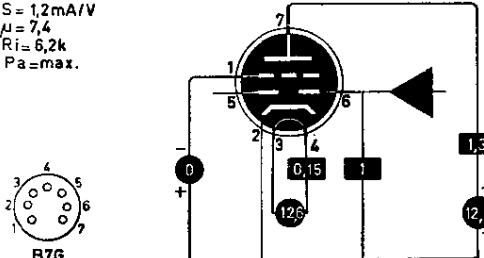
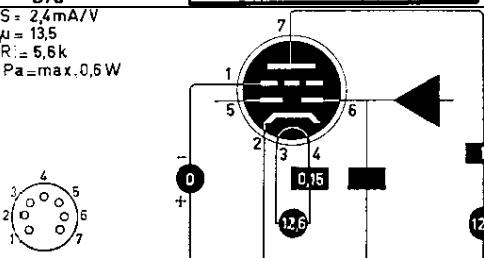
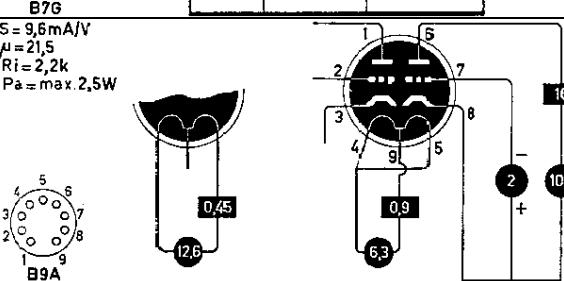
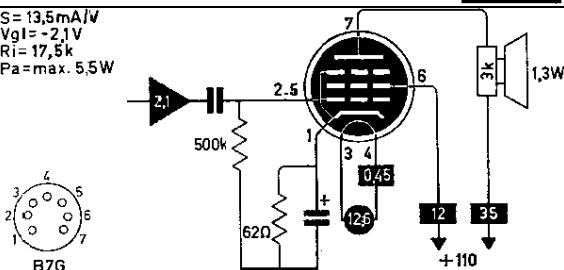
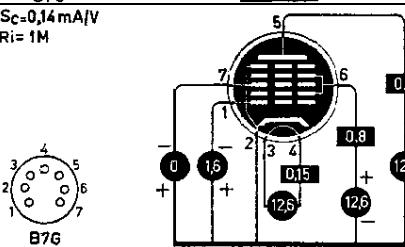
12BW4 rr	$R_t = \text{min. } 2 \times 82 \Omega$
12BY7 p	$S = 12 \text{ mA/V}$ $R_i = 90 \text{ k}\Omega$ $P_a = \text{max. } 6.25 \text{ W}$
12BZ6 p	$S = 6.1 \text{ mA/V}$ $V_{g1} = -2.4 \dots -23 \text{ V}$ $R_i = 600 \text{ k}\Omega$ $P_a = \text{max. } 2.5 \text{ W}$
12BZ7 tt	$S = 3.2 \text{ mA/V}$ $\mu = 100$ $R_i = 31.8 \text{ k}\Omega$ $P_a = \text{max. } 2 \times 1 \text{ W}$
12C8 ddp	$S = 1.12 \text{ mA/V}$ $V_{g1} = -3 \text{ tot } -21 \text{ V}$ $R_i = 600 \text{ k}\Omega$
12CA5 P	$S = 9.2 \text{ mA/V}$ $V_{g1} = -4.5 \text{ V}$ $R_i = 15 \text{ k}\Omega$ $P_a = \text{max. } 5 \text{ W}$
12CN5 p	$S = 3.8 \text{ mA/V}$ $V_{g1} = 0$ $R_i = 40 \text{ k}\Omega$ $P_a = \text{max. } 0.5 \text{ W}$

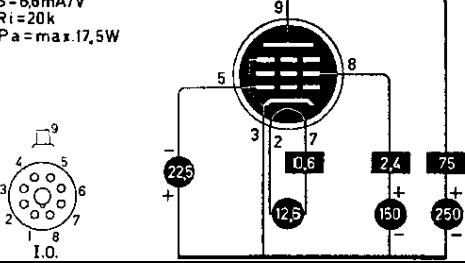
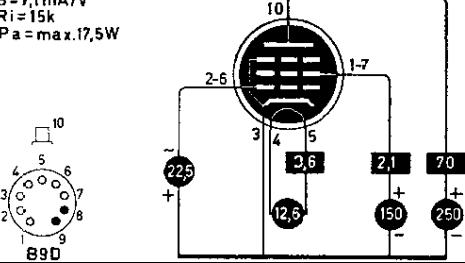
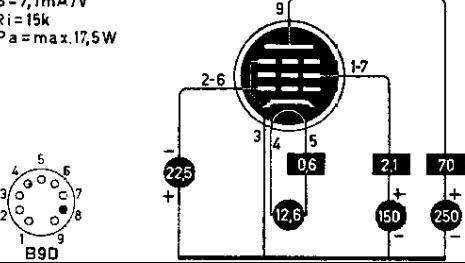
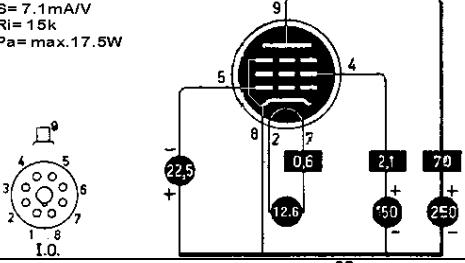
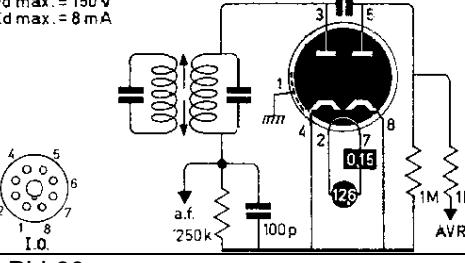
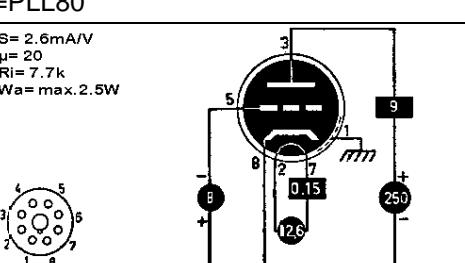
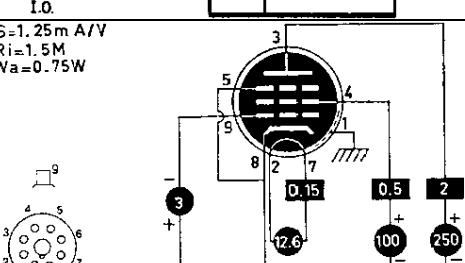
12CR6 dp	S=2,2mA/V V _{g1} =-2...32V R _i =800k P _a =max.2,5W	
12CT8 tp	S _p = 7 mA/V R _i = 150 k P _a =max.2,75W	
12CU5 P	S= 7,5mA/V V _{g1} =-8V R _i =10k P _a =max.6W	
12CU6 P	S= 5,5mA/V R _i =20k P _a =max.11W	
12CX6 p	S= 3,1mA/V R _i =40k P _a =max.1W	
12D4 R	BOOSTER V _{a inv p} =max.4,4kV I _{a p} =max.900mA	
12DA6	=UF89	
12DB5 P	S= 8mA/V V _{g1} =-8.7V R _i =28k P _a =max.10W	

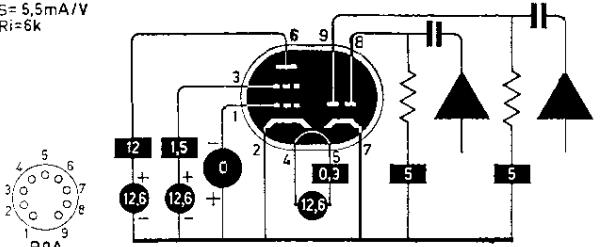
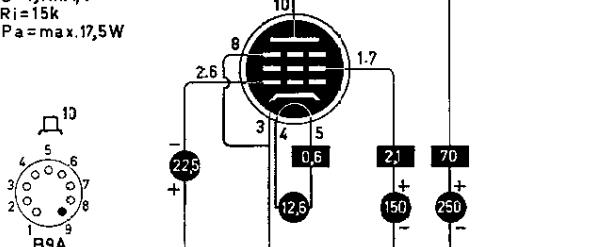
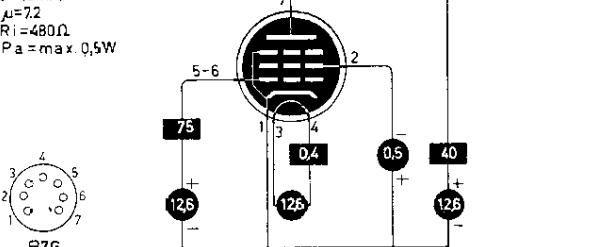
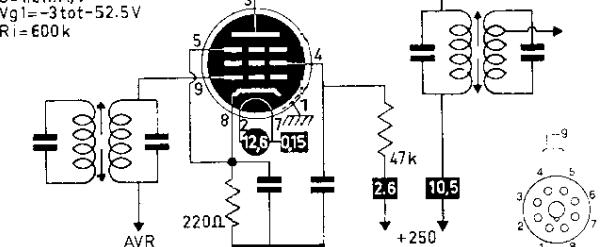
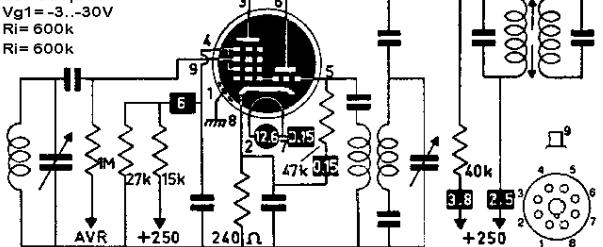
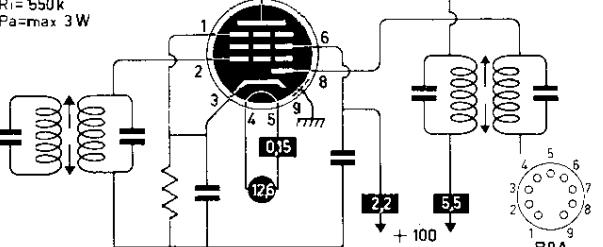
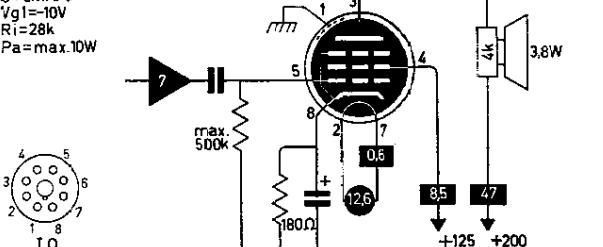
12DE8 dp	S=1,5mA/V R _i =300k	
12DK6 p	S=9,8 mA/V R _i =350k P _a =max. 2,3W	
12DM4 R	BOOSTER V _a inv p= max.5kV I _a p= max.1100mA	
12DQ6A P	S=6,6mA/V R _i =20k P _a =max.15W	
12DQ7 P	S=10,5mA/V R _i =53k P _a =max.6,5W	
12DT5 P	S= 6,2 mA/V $\mu g^2 g_1 =$ P _a =max. 9W	
12DT8 tt	S=5,5mA/V $\mu=60$ R _i =10,9k P _a =max. 2x2,5W	

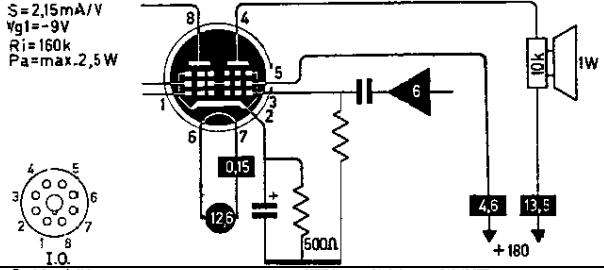
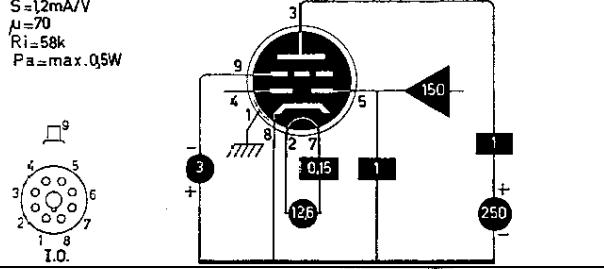
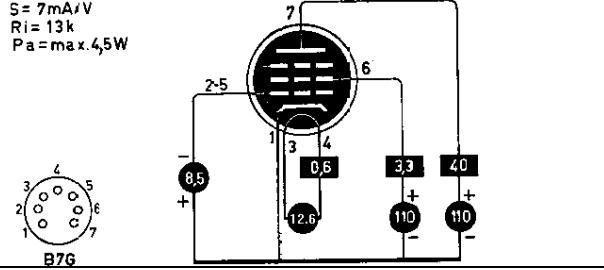
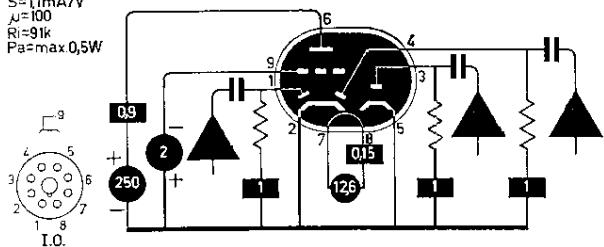
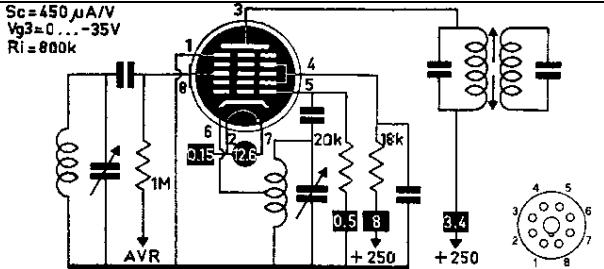
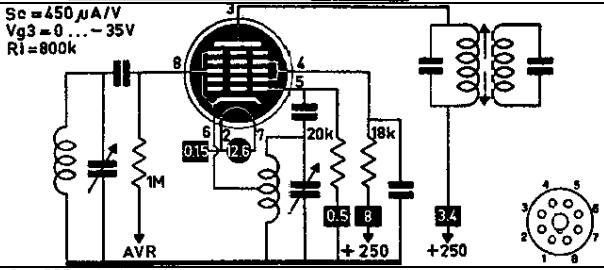
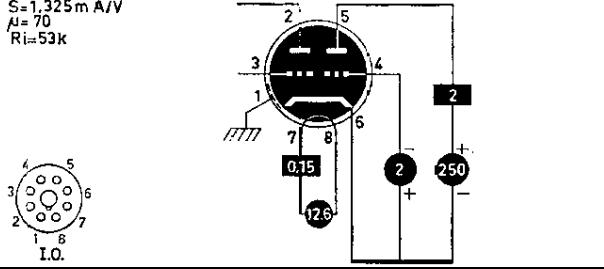
12DW7 tt	A $S=1,6 \text{ mA/V}$ $\mu=100$ $R_i=62,5 \text{ k}$ $P_a=\text{max. } 1,2 \text{ W}$ B $S=2,2 \text{ mA/V}$ $\mu=17$ $R_i=7,7 \text{ k}$ $P_a=\text{max. } 3,3 \text{ W}$	 A: Pin 6 - Grid, Pin 7 - Anode, Pin 8 - Cathode, Pin 9 - Screen grid, Pin 10 - Grid, Pin 11 - Anode, Pin 12 - Cathode. B: Pin 6 - Grid, Pin 7 - Anode, Pin 8 - Cathode, Pin 9 - Screen grid, Pin 10 - Grid, Pin 11 - Anode, Pin 12 - Cathode. Pinouts: A: 1,2 - 250V, 2 - 250V, 3 - 12,6V, 4 - 12,6V, 5 - 0,15V, 6 - 12,6V, 7 - 12,6V, 8,9 - 12,6V, 10,11 - 12,6V, 12 - 250V. B: 1,2 - 250V, 2 - 250V, 3 - 12,6V, 4 - 12,6V, 5 - 0,15V, 6 - 12,6V, 7 - 12,6V, 8,9 - 12,6V, 10,11 - 12,6V, 12 - 250V.
12DY8 tq	$S_p=6 \text{ mA/V}$ $R_i=5 \text{ k}$ $S_T=2 \text{ mA/V}$ $R_i=10 \text{ k}$ $\mu=20$	 Pinouts: 14 - 12,6V, 2 - 12,6V, 3 - 12,6V, 4 - 12,6V, 5 - 0,55V, 6 - 12,6V, 7 - 12,6V, 8 - 12,6V, 9 - 12,6V, 10,11 - 12,6V, 12 - 12,6V.
12DZ6 p	$S=3,8 \text{ mA/V}$ $V_{g1}=0$ $R_i=25 \text{ k}$ $P_a=\text{max. } 1 \text{ W}$	 Pinouts: 1 - 12,6V, 2 - 12,6V, 3 - 12,6V, 4 - 0,19V, 5 - 12,6V, 6 - 12,6V, 7 - 12,6V, 8 - 12,6V, 9 - 12,6V, 10 - 12,6V, 11 - 12,6V, 12 - 12,6V.
12E5 t		 $S = 1,15$ $\mu = 12,000$ $V = -5$
12EA6 p	$S=3,8 \text{ mA/V}$ $R_i=32 \text{ k}$ $P_a=\text{max. } 0,5 \text{ W}$	 Pinouts: 0 - 12,6V, 1 - 12,6V, 2 - 12,6V, 3 - 0,19V, 4 - 12,6V, 5 - 12,6V, 6 - 12,6V, 7 - 12,6V, 8 - 12,6V, 9 - 12,6V, 10 - 12,6V, 11 - 12,6V, 12 - 12,6V.
12EC8 tp	$S_p=2 \text{ mA/V}$ $R_i=750 \text{ k}$ $S_T=4,7 \text{ mA/V}$ $R_i=6 \text{ k}$ $\mu=25$	 Pinouts: 0,55 - 12,6V, 0,28 - 12,6V, 0 - 12,6V, 0,225 - 12,6V, 0 - 12,6V, 2,4 - 12,6V, 6 - 12,6V, 7 - 12,6V, 8 - 12,6V, 9 - 12,6V, 10,11 - 12,6V, 12 - 12,6V.

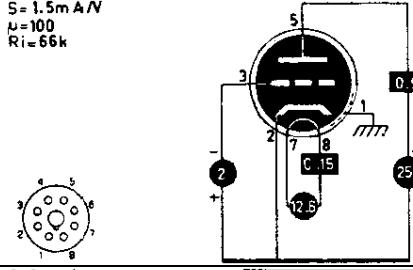
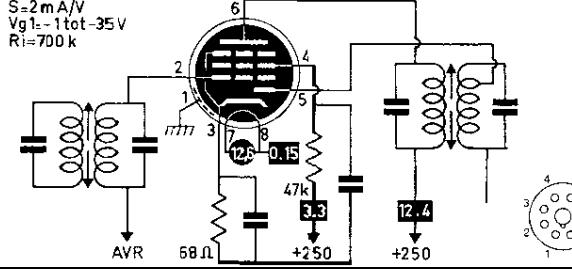
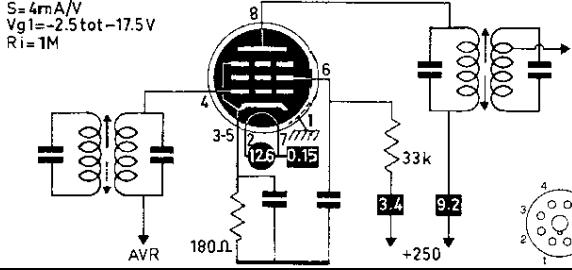
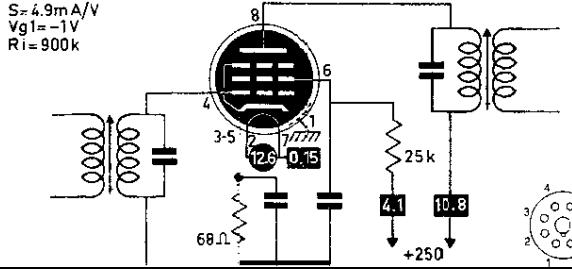
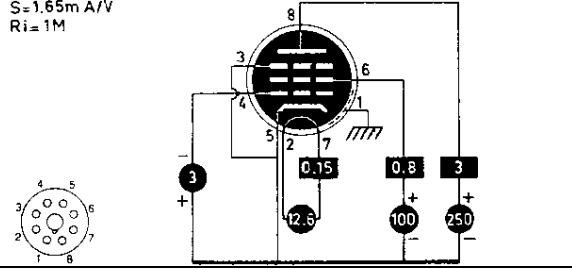
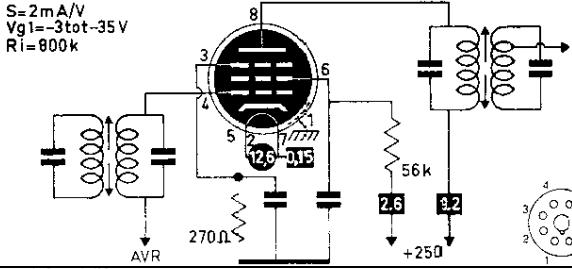
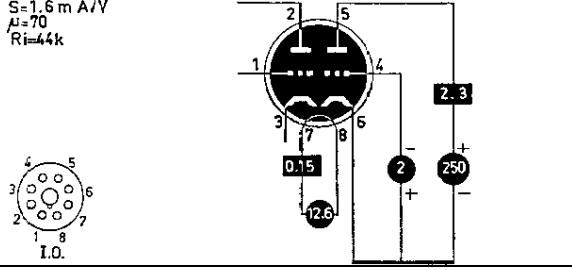
12ED5 P	S= 8,5 mA/V Vg1=-4,5V Ri= 14 k Pa=max. 6,25W	
12EG6 H	Sg3-a=0,8 mA/V Ri=150k	
12EH5 P	S= 14.6 mA/V Vg1=-3.5V Ri= 11 k Pa= max. 5W	
12EK6 p	S=4,2mA/V Vg1=0 Ri= 40k Pa=max.	
12EL6 ddt	S= 1,2mA/V $\mu = 55$ Ri= 4,5k Pa=max. 0,6 W	
12EN6 P	S= 8 mA/V Ri= 28 k Pa= max. 7W	
12EQ7 dp	S=3,8mA/V Vg1=0...-20V Ri= 250 k Pa=max. 3 W	

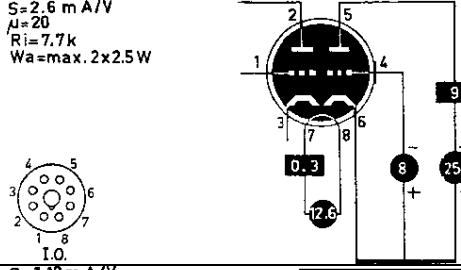
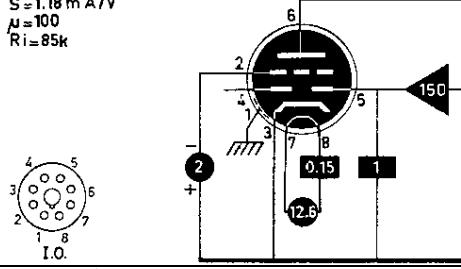
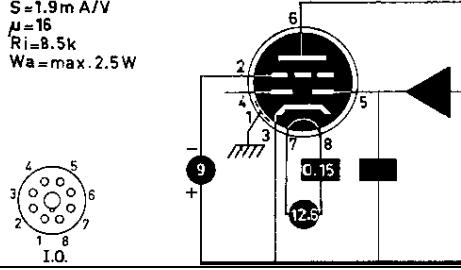
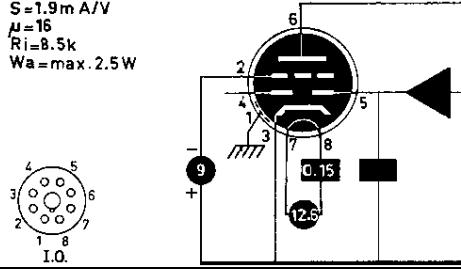
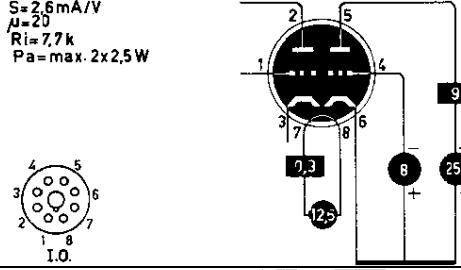
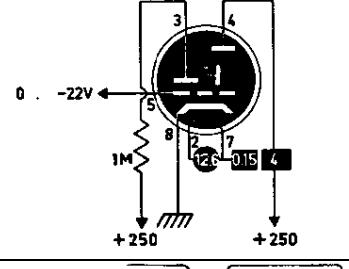
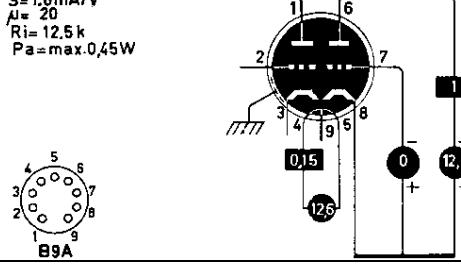
12F5 t	S=1,5 mA/V $\mu=100$ $R_i=66\text{k}$	
12F8 ddp	S=1mA/V $V_{g1}=0\dots-5\text{V}$ $R_i=330\text{k}$ $P_a=\text{max } 0,5\text{W}$	
12FG6	=UM84	
12FK6 ddt	S = 1,2 mA/V $\mu = 7,4$ $R_i = 6,2\text{k}$ $P_a = \text{max.}$	
12FM6 ddt	S = 2,4 mA/V $\mu = 13,5$ $R_i = 5,6\text{k}$ $P_a = \text{max.} 0,6\text{W}$	
12FV7 tt	S=9,6 mA/V $\mu=21,5$ $R_i=2,2\text{k}$ $P_a=\text{max. } 2,5\text{W}$	
12FX5 P	S=13,5 mA/V $V_{g1}=-2,1\text{V}$ $R_i=17,5\text{k}$ $P_a=\text{max. } 5,5\text{W}$	
12GA6 H	$S_c=0,14\text{ mA/V}$ $R_i=1\text{M}$	

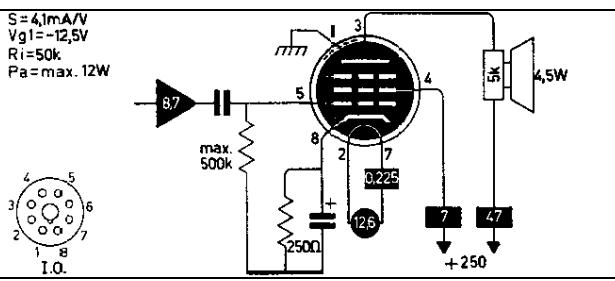
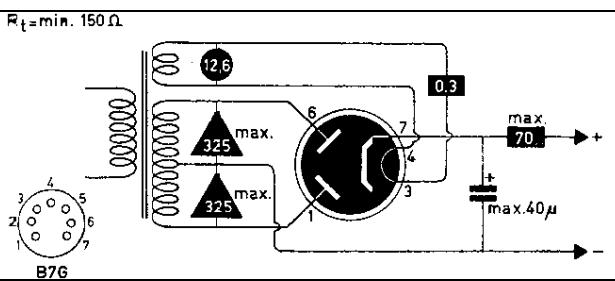
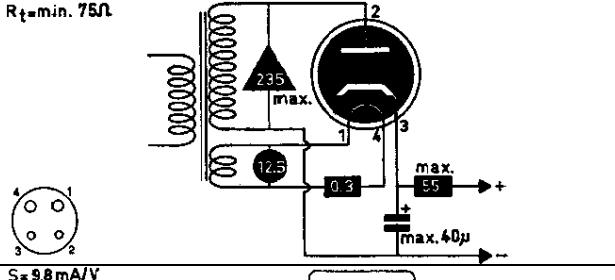
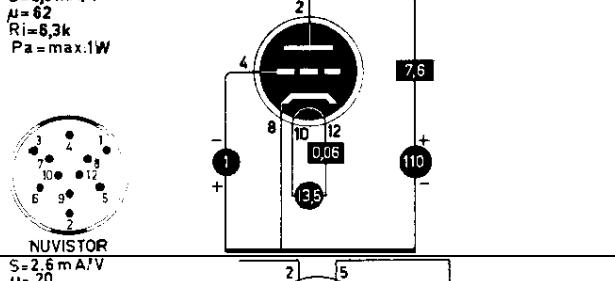
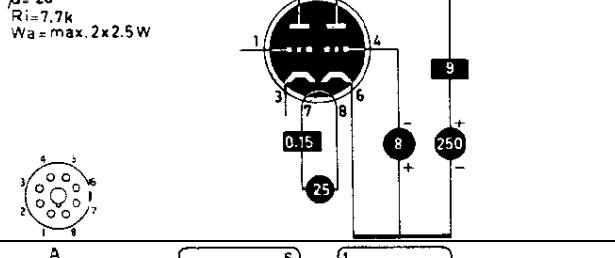
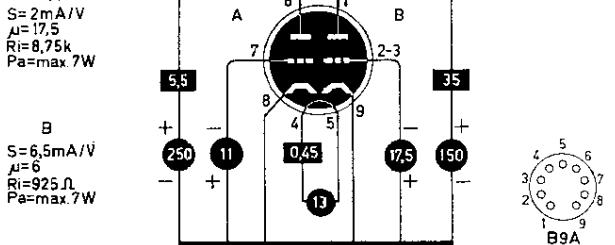
12GC6 P	S=6,6mA/V Ri=20k Pa=max.17,5W	
12GJ5 P	S=7,1mA/V Ri=15k Pa=max.17,5W	
12GT5 P	S=7,1mA/V Ri=15k Pa=max.17,5W	
12GW6 P	S=7,1mA/V Ri=15k Pa=max.17,5W	
12H6 dd	Vd max.= 150 V Id max.= 8 mA	
12HU8	=PLL80	
12J5 t	S= 2,6mA/V $\mu = 20$ Ri= 7.7k Wa= max. 2.5W	
12J7 p	S=1,25mA/V Ri=1,5M Wa=0,75W	

12J8 ddq	S= 5,5mA/V Ri= 5k  
12JB6 p	S= 7,1mA/V Ri= 15k Pa = max. 17,5W  
12K5 p	S= 15mA/V $\mu = 72$ Ri= 480 Ω Pa = max. 0,5W  
12K7 p	S= 1,6mA/V Vg1 = -3 tot -52,5V Ri= 600k  
12K8 th	S= 350 μ A/V Vg1 = -3..-30V Ri= 600k Ri= 600k  
12KL8 dp	S= 4,2mA/V Ri= 550k Pa = max. 3W  
12L6 P	S= 8mA/V Vg1 = -10V Ri= 28k Pa = max. 10W  

12L8 PP	$S=2,15\text{ mA/V}$ $V_{g1}=9\text{ V}$ $R_i=160\text{ k}$ $P_a=\text{max. }2,5\text{ W}$	
12Q7 ddt	$S=12\text{ mA/V}$ $\mu=70$ $R_i=58\text{ k}$ $P_a=\text{max. }0.5\text{ W}$	
12R5 P	$S=7\text{ mA/V}$ $R_i=13\text{ k}$ $P_a=\text{max. }4.5\text{ W}$	
12S7	=UAF42	
12S8 dddt	$S=11\text{ mA/V}$ $\mu=100$ $R_i=31\text{ k}$ $P_a=\text{max. }0.5\text{ W}$	
12SA7 H	$S_c=450\text{ }\mu\text{A/V}$ $V_{g3}=0 \dots -35\text{ V}$ $R_i=800\text{ k}$	
12SA7GT H	$S_c=450\text{ }\mu\text{A/V}$ $V_{g3}=0 \dots -35\text{ V}$ $R_i=800\text{ k}$	
12SC7 tt	$S=1,325\text{ mA/V}$ $\mu=70$ $R_i=53\text{ k}$	

12SF5 t	S= 1.5 mA/V $\mu=100$ $R_i=66\text{k}$	
12SF7 dp	S= 2 mA/V $V_{g1}=-1\text{ tot }-35\text{ V}$ $R_i=700\text{k}$	
12SG7 p	S= 4 mA/V $V_{g1}=-2.5\text{ tot }-17.5\text{ V}$ $R_i=1\text{M}$	
12SH7 p	S= 4.9 mA/V $V_{g1}=-1\text{ V}$ $R_i=900\text{k}$	
12SJ7 p	S= 1.65 mA/V $R_i=1\text{M}$	
12SK7 p	S= 2 mA/V $V_{g1}=-3\text{ tot }-35\text{ V}$ $R_i=800\text{k}$	
12SL7 tt	S= 1.6 mA/V $\mu=70$ $R_i=44\text{k}$	

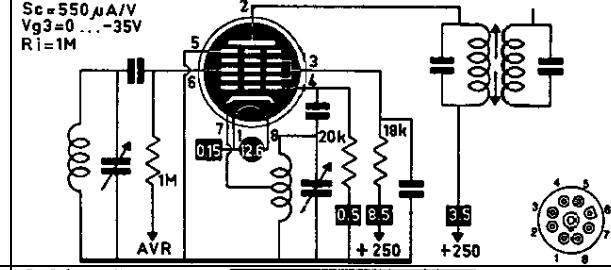
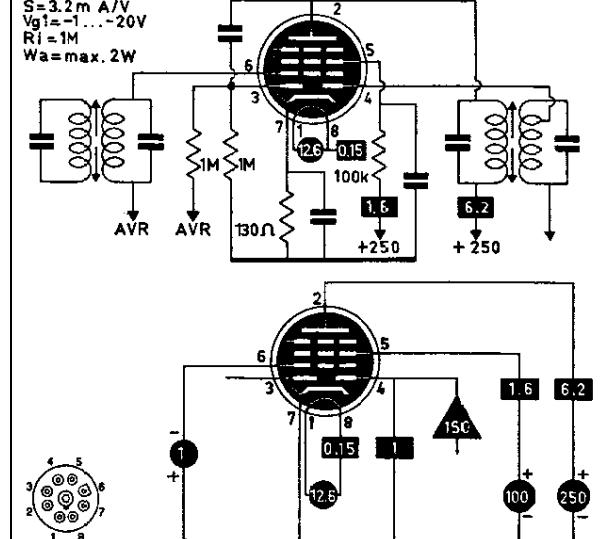
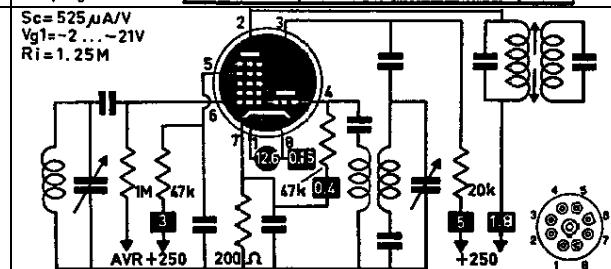
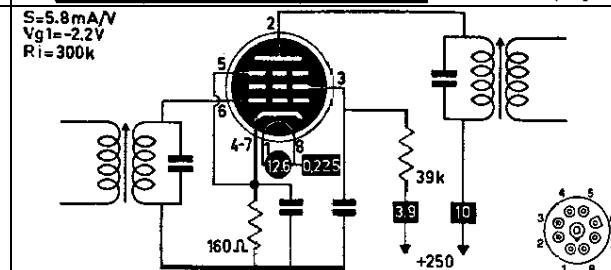
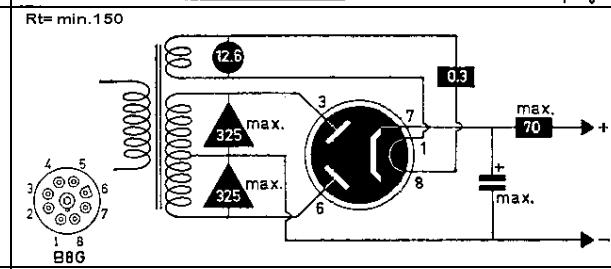
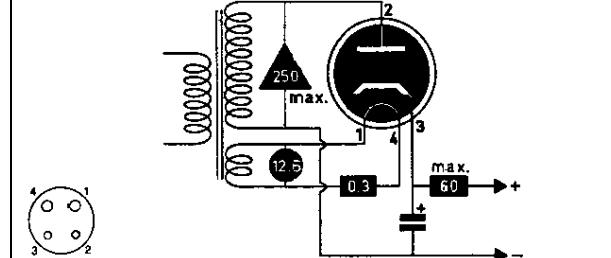
12SN7 tt	S=2.6 mA/V $\mu=20$ $R_i=7.7\text{k}$ $W_a=\text{max. } 2 \times 2.5\text{W}$	
12SQ7 ddt	S=1.18 mA/V $\mu=100$ $R_i=85\text{k}$	
12SR7 ddt	S=1.9 mA/V $\mu=16$ $R_i=8.5\text{k}$ $W_a=\text{max. } 2.5\text{W}$	
12SW7 ddt	S=1.9 mA/V $\mu=16$ $R_i=8.5\text{k}$ $W_a=\text{max. } 2.5\text{W}$	
12SX7 tt	S=2.6 mA/V $\mu=20$ $R_i=7.7\text{k}$ $P_a=\text{max. } 2 \times 2.5\text{W}$	
12U5G ti		
12U7 tt	S=1.6 mA/V $\mu=20$ $R_i=12.5\text{k}$ $P_a=\text{max. } 0.45\text{W}$	

12V6 P	S=4,1mA/V Vg1=-12,5V Ri=50k Pa=max. 12W	
12W6 P		
12X4 rr	Rt=min. 150Ω	
12Z3 r	Rt=min. 75Ω	
13CW4 t	S=9,8 mA/V μ=62 Ri=6,3k Pa=max.1W	
13D1 tt	S=2,6 mA/V μ=20 Ri=7,7k Wa=max. 2x2.5W	
13DE7 tt	A S=2mA/V μ=17,5 Ri=8,75k Pa=max. 7W B S=6,5mA/V μ=6 Ri=925Ω Pa=max. 7W	

13DR7 tt	<p>A S=1,6mA/V $\mu=68$ $R_i=40k$ $P_a=\text{max.}1W$</p> <p>B S=6,5mA/V $\mu=6$ $R_i=925\Omega$ $P_a=\text{max.}7W$</p>
13EM7 tt	<p>A S=1,6mA/V $\mu=68$ $R_i=40k$ $P_a=\text{max.}1,5W$</p> <p>B S=7,2mA/V $\mu=5,4$ $R_i=750\Omega$ $P_a=\text{max.}10W$</p>
13FD7 tt	<p>A S=1,6mA/V $\mu=64$ $R_i=40k$ $P_a=\text{max.}1,5W$</p> <p>B S=7,5mA/V $\mu=6$ $R_i=800\Omega$ $P_a=\text{max.}10W$</p>
13FM7 tt	<p>A S= 6 mA/V $\mu=5,5$ $R_i=920$ $P_a=\text{max.}10W$</p> <p>B S= 2,2 mA/V $\mu=66$ $R_i=30 k$ $P_a=\text{max.}1W$</p>
13GF7 tt	<p>A S=1,6mA/V $\mu=64$ $R_i=40k$ $P_a=\text{max.}1,5W$</p> <p>B S=7,2mA/V $\mu=5,4$ $R_i=750\Omega$ $P_a=\text{max.}11W$</p>
14A4 t	<p>S= 2,6 mA/V $\mu=20$ $R_i=7,7 k$ $P_a=\text{max.}2.5 W$</p>
14A5 P	<p>S= 3mA/V $V_{G1}=-12.5V$ $\mu g^2 g_1=$ $R_i=70k$ $P_a=\text{max.}7.5W$</p>

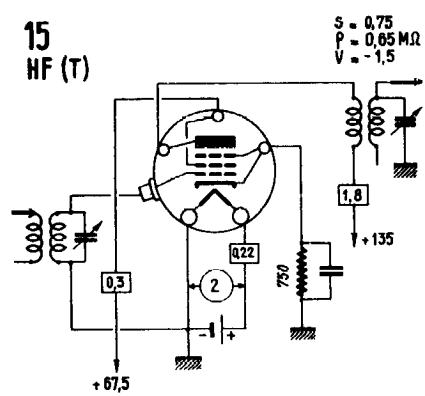
14A7 p	<p>$S=2\text{ mA/V}$ $V_{g1}=-3\text{ tot }-35\text{ V}$ $R_i=800\text{k}$</p>
14AF7 tt	<p>$S=2.1\text{ mA/V}$ $\mu=16$ $R_i=7.6\text{k}$ $W_a=\text{max. }2\times 2.5\text{ W}$</p>
14B6 ddt	<p>$S=1.1\text{ mA/V}$ $\mu=100$ $R_i=91\text{k}$ $W_a=\text{max. }0.5\text{ W}$</p>
14B8 H	<p>$S_c=0.55\text{ mA/V}$ $V_{g4}=-3\text{...}-35\text{ V}$ $R_i=360\text{k}$ $R_{eq}=$</p>
14C5 P	<p>$S=4.1\text{ mA/V}$ $V_{g1}=-12.5\text{ V}$ $\mu g_2 g_1=$ $R_i=52\text{k}$ $P_a=\text{max. }12\text{ W}$</p>
14C7 p	<p>$S=1.8\text{ mA/V}$ $R_i=1\text{M}$ $W_a=1\text{ W}$</p>
14E6 ddt	<p>$S=1.9\text{ mA/V}$ $\mu=16$ $R_i=8.5\text{k}$ $W_a=\text{max. }2.5\text{ W}$</p>

14E7 ddp	S=1.3mA/V $V_{g1}=-3\ldots-42.5V$ $R_i=700k$ $W_a=\text{max. } 2W$	
14F7 tt	S=1.6mA/V $\mu=70$ $R_i=44k$ $W_a=\text{max. } 2 \times 1W$	
14F8 tt	S=3.3mA/V $\mu=48$ $R_i=14.5k$ $W_a=\text{max. } 3.5W$	
14GT8 ddt	S=1mA/V $\mu=72$ $R_i=72k$ $P_a=\text{max. } 1.1W$	
14GW8	=PCL86	
14H7 p	S=4mA/V $V_{g1}=-2\ldots-30V$ $R_i=800k$	
14J7 tH	$S_c=0.29mA/V$ $V_{g1}=-3\ldots-20V$ $R_i=1.5M$ $S_T=1.4mA/V$	
14K7	=UCH42	
14L7	=UBC41	
14N7 tt	S=2.6mA/V $\mu=20$ $R_i=7.7k$ $W_a=\text{max. } 2 \times 2.5W$	

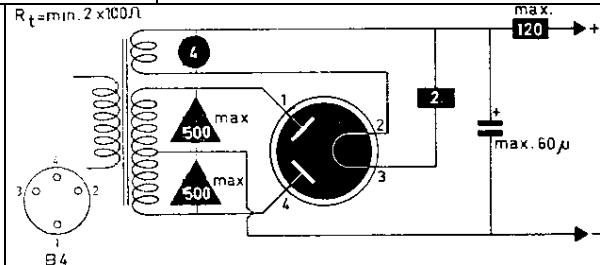
14Q7 H	<p>$S_c = 550 \mu A/V$ $V_{g3} = 0 \dots -35V$ $R_i = 1M$</p> 
14R7 ddp	<p>$S = 3.2 \text{ mA/V}$ $V_{g1} = -1 \dots -20V$ $R_i = 1M$ $W_a = \text{max. } 2W$</p> 
14S7 tH	<p>$S_c = 525 \mu A/V$ $V_{g1} = -2 \dots -21V$ $R_i = 1.25M$</p> 
14W7 p	<p>$S = 5.8 \text{ mA/V}$ $V_{g1} = -2.2V$ $R_i = 300k$</p> 
14Y4 rr	<p>$R_t = \text{min. } 150$</p> 
14Z3 r	

15

p

15
HF (T)**1561**

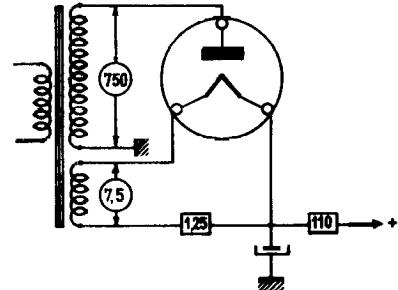
rr

 $R_t = \text{min. } 2 \times 100\mu\Omega$ **1562**

r

1562

R

**15A6**

=PL83

15AF11

ttp

 $S_T = 5.5 \text{ mA/V}$ $\mu = 68$ A $R_i = 12.4$

Pa = max. 1.1W

 $S_T = 4.4 \text{ mA/V}$ $\mu = 41$ B $R_i = 9.4 \text{ k}$

Pa = max. 2W

 $S_p = 11 \text{ mA/V}$ $R_i = 68$

Pa = max. 5W

12DP

15CW5

=PL84

15DQ8

=PCL84

15KY8

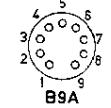
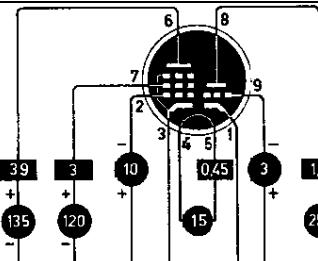
tp

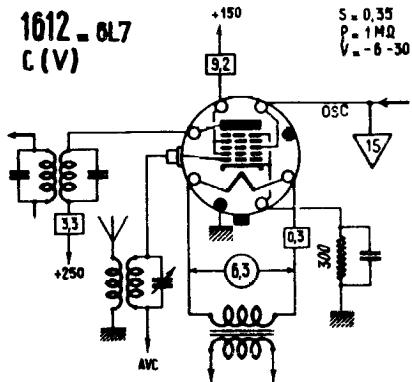
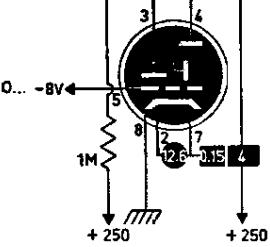
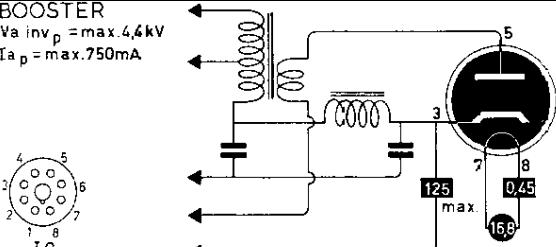
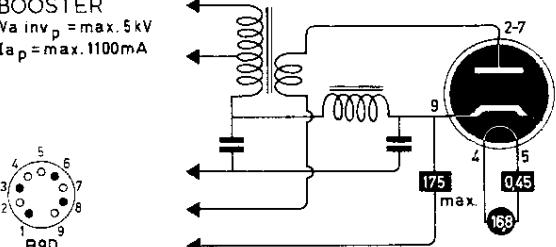
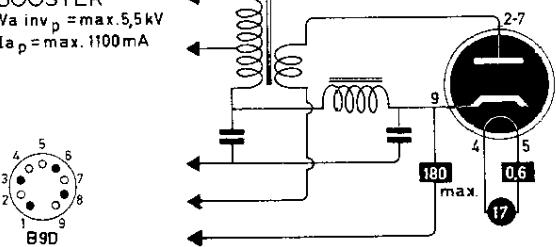
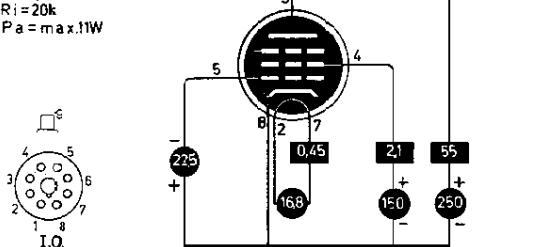
 $S_p = 0.4 \text{ mA/V}$ $R_i = 18 \text{ k}$

Pa = max. 12W

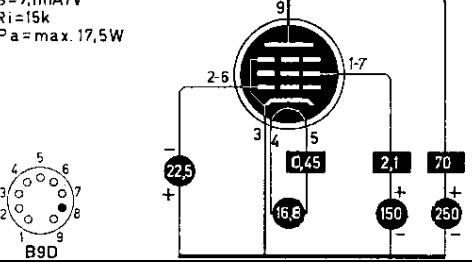
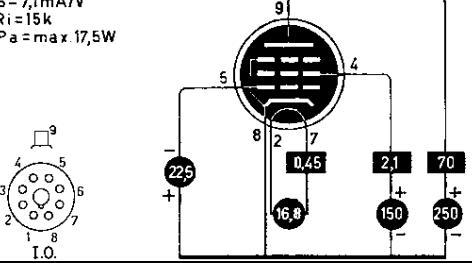
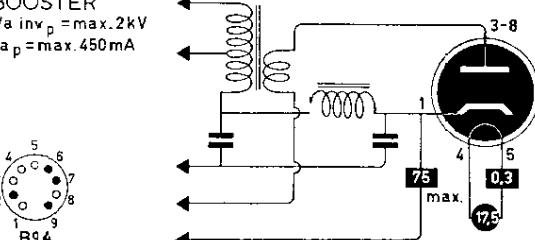
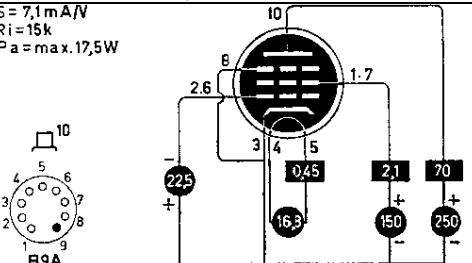
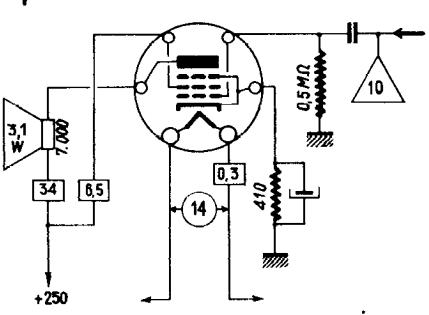
 $S_T = 1.6 \text{ mA/V}$ $R_i = 40 \text{ k}$ $\mu = 64$

Pa = max. 1.5W



1612 H	1612 - 6L7 C (V)	 S = 0.35 P = 1 mW V = -6 - 30
1629 ti		
16A5	=PL82	
16A8	=PCL82	
17AX4 R	BOOSTER Va inv _p = max. 4.6 kV Ia _p = max. 750 mA	 
17AY3 R	BOOSTER Va inv _p = max. 5 kV Ia _p = max. 1100 mA	 
17BH3 R	BOOSTER Va inv _p = max. 5.5 kV Ia _p = max. 1100 mA	 
17BQ6 P	S = 5.5 mA/V R _i = 20 kΩ P _a = max. 11 W	 

17BS3 R	BOOSTER $V_{a\ inv_p} = \text{max. } 5\text{kV}$ $I_{a_p} = \text{max. } 1100\text{mA}$	
17C8 17CU5 P	=UBF80 $S=7.5\text{mA/V}$ $V_{g1}=-8\text{V}$ $R_i=10\text{k}$ $P_a=\text{max. } 6\text{W}$	
17D4 R	BOOSTER $V_{a\ inv_p} = \text{max. } 4.4\text{kV}$ $I_{a_p} = \text{max. } 900\text{mA}$	
17DE4 R	BOOSTER $V_{a\ inv_p} = \text{max. } 5\text{kV}$ $I_{a_p} = \text{max. } 1100\text{mA}$	
17DM4 R	BOOSTER $V_{a\ inv_p} = \text{max. } 5\text{kV}$ $I_{a_p} = \text{max. } 1100\text{mA}$	
17DQ6A P	$S=6.6\text{mA/V}$ $R_i=20\text{k}$ $P_a=\text{max. } 15\text{W}$	
17GJ5 P	$S=7.1\text{mA/V}$ $R_i=15\text{k}$ $P_a=\text{max. } 17.5\text{W}$	

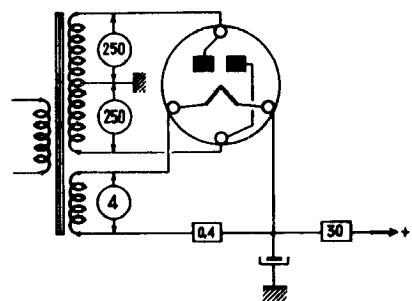
17GT5 P	S=7,1mA/V Ri=15k Pa=max. 17,5W	
17GW6 P	S=7,1mA/V Ri=15k Pa=max. 17,5W	
17H3 R	BOOSTER Va(inv) _p =max.2kV Ia _p =max.450mA	
17JB6 P	S=7,1mA/V Ri=15k Pa=max. 17,5W	
17Z3	=PY81	
18 P		
	18 = 6F6 P	S = 2,5 P = 80.000 V = -16,5
		

1801

rr

1801

R

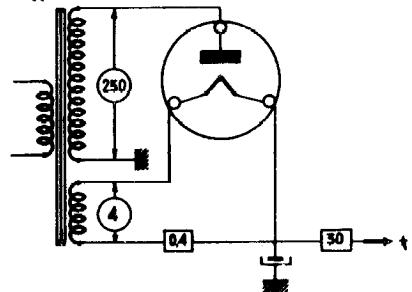


1802

r

1802

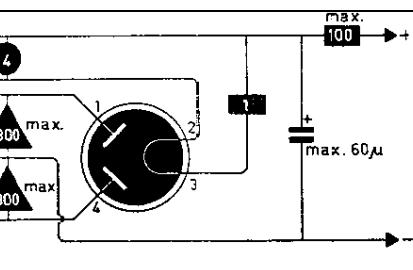
R



1805

rr

$R_t = \text{min. } 2 \times 60\Omega$

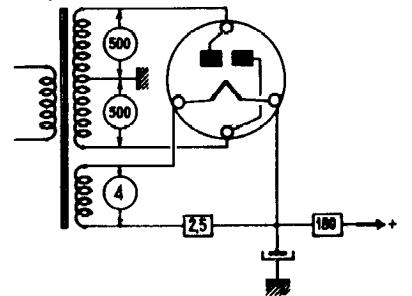


1815

rr

1815

R

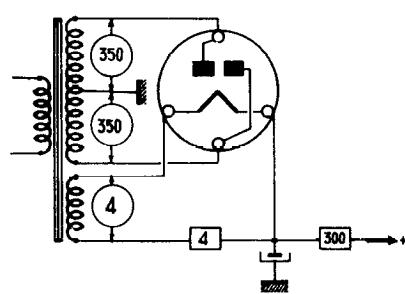


1817

rr

1817

R

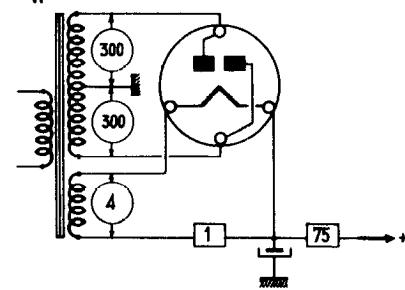


1823

rr

1823

R



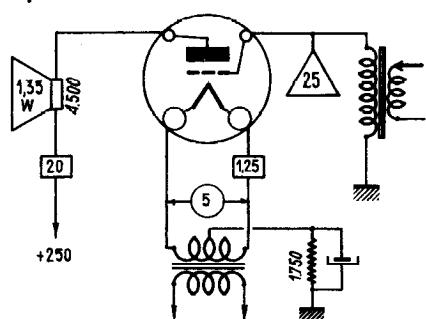
182B

T

182B + 482B

P

$S = 2$
 $P = 2.500$
 $V = -35$



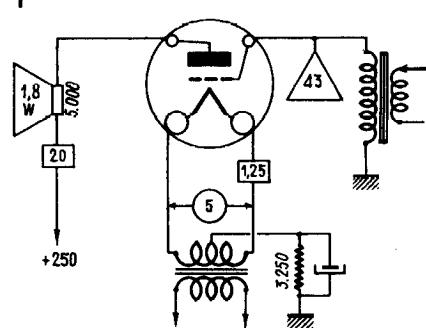
183

T

183

P

$S = 1.5$
 $P = 2.000$
 $V = -65$

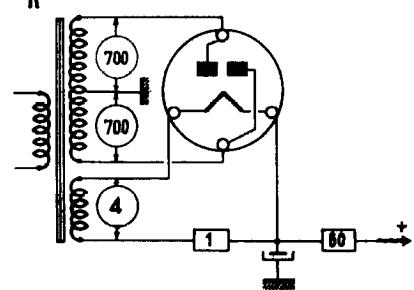


1831

rr

1831

R

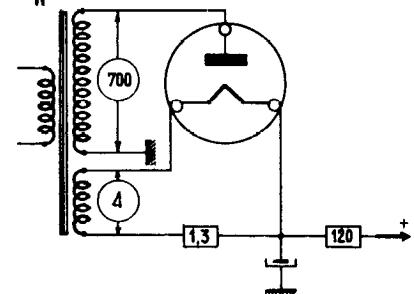


1832

r

1832

R



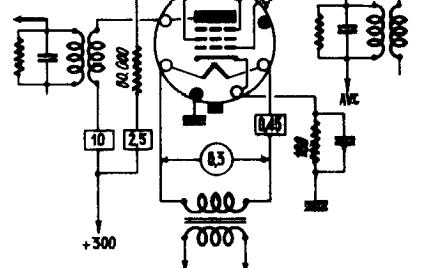
1851

p

1851 - 6AC7

HF (V)

(T)



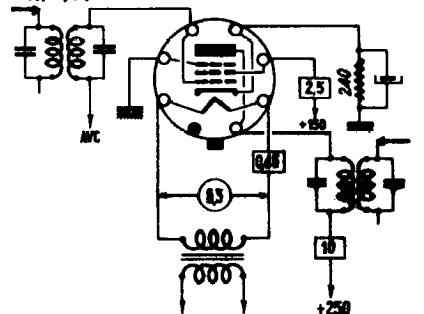
1852

p

1852 - 6AC7

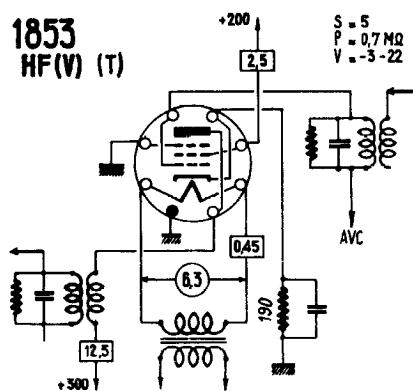
HF (V)

(T)



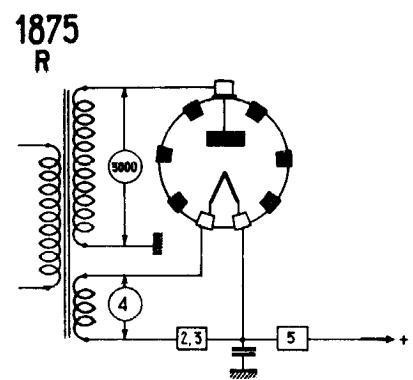
1853

p



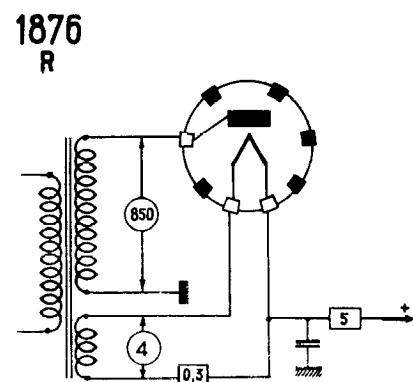
1875

R



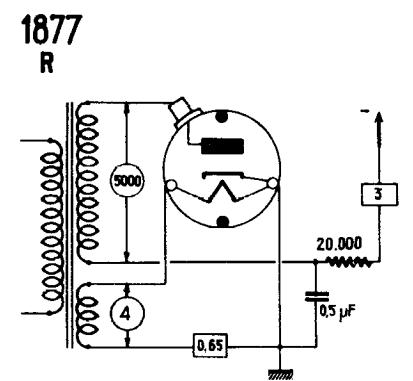
1876

R



1877

R

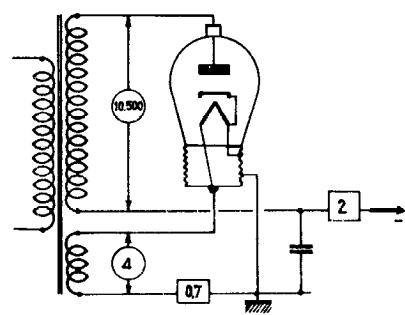


1878

R

1878

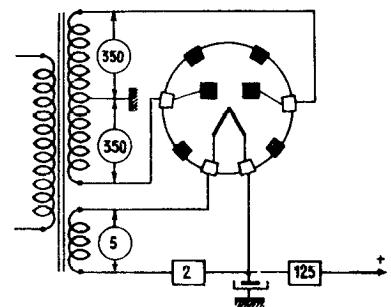
R

**1882**

rr

1882

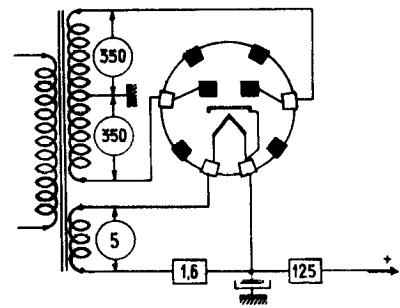
R

**1883**

rr

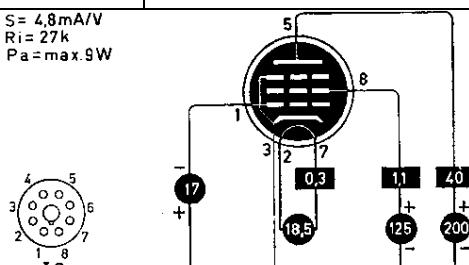
1883

R

**18A5**

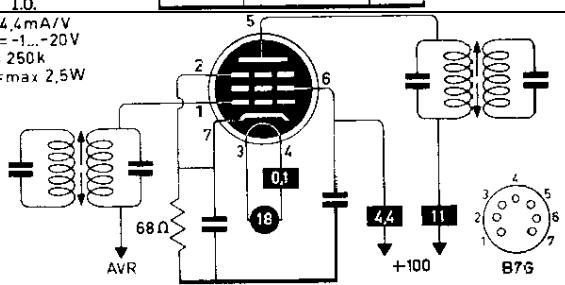
P

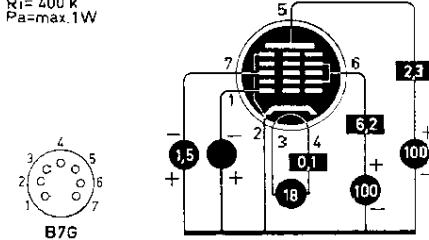
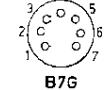
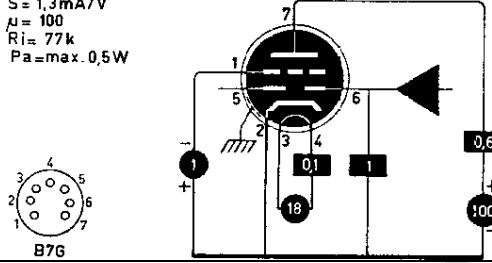
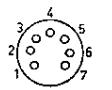
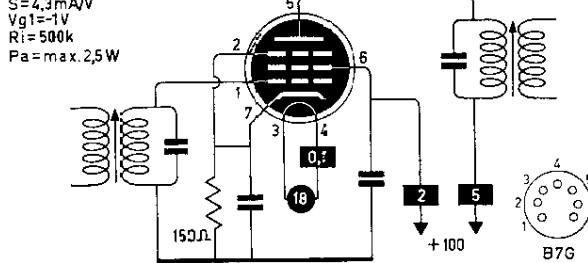
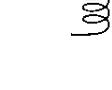
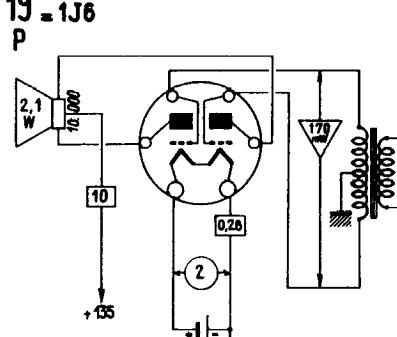
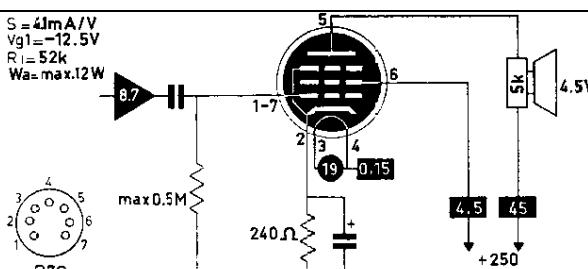
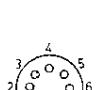
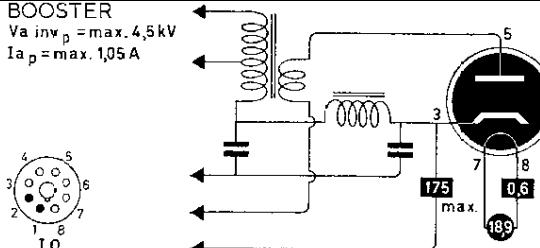
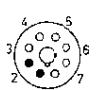
$S = 4.8 \text{ mA/V}$
 $R_i = 27 \text{ k}\Omega$
 $P_a = \text{max. } 9 \text{ W}$

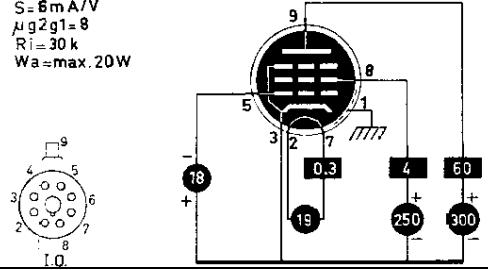
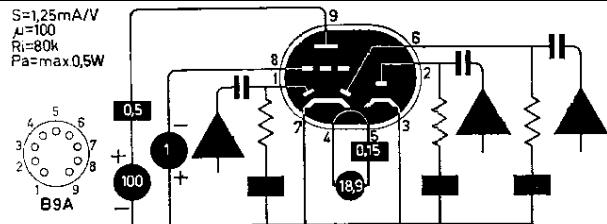
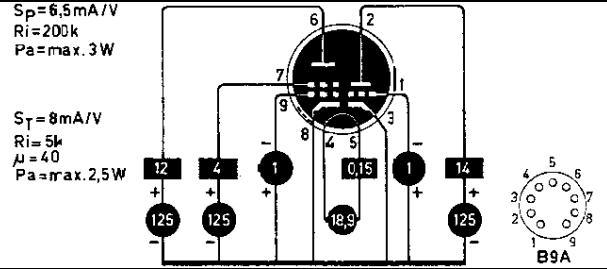
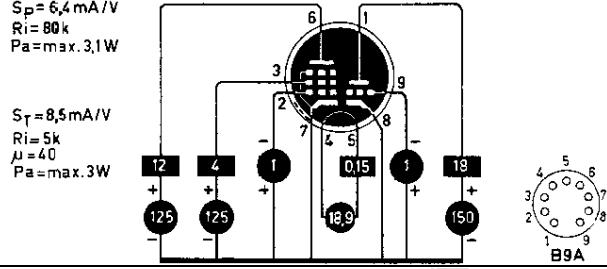
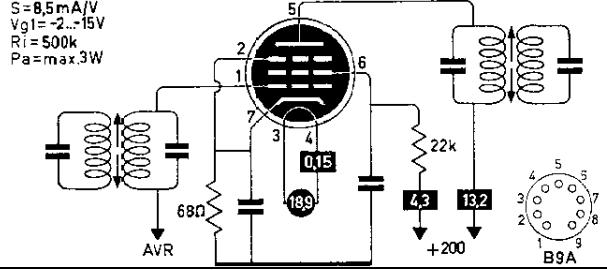
**18FW6**

p

$S = 4.4 \text{ mA/V}$
 $V_{g1} = -1 \dots -20 \text{ V}$
 $R_i = 250 \text{ k}\Omega$
 $P_a = \text{max. } 2.5 \text{ W}$



18FX6 H	$R_i = 400 \text{ k}$ $P_a = \text{max. } 1\text{W}$  
18FY6 ddt	$S = 1,3 \text{ mA/V}$ $\mu = 100$ $R_i = 77 \text{ k}$ $P_a = \text{max. } 0,5\text{W}$  
18GD6A p	$S = 4,3 \text{ mA/V}$ $V_{g1} = -1\text{V}$ $R_i = 500 \text{ k}$ $P_a = \text{max. } 2,5\text{W}$  
18GV8	=PCL85
19 TT	19 = 1J6 P 
19AK8	=PABC80
19AQ5 P	$S = 4 \text{ mA/V}$ $V_{g1} = -12,5\text{V}$ $R_i = 52 \text{ k}$ $W_a = \text{max. } 12\text{W}$  
19AU4 R	BOOSTER $V_a \text{ inv}_p = \text{max. } 4,5\text{kV}$ $I_a_p = \text{max. } 1,05\text{ A}$  

19BG6 P	S=6mA/V $\mu g_2 g_1 = 8$ $R_i = 30k$ $P_a = \text{max. } 20W$	
19BR5	=UM80	
19BX6	=UF80	
19BY7	=UF85	
19C8 dddt	S=1,25mA/V $\mu = 100$ $R_i = 80k$ $P_a = \text{max. } 0,5W$	
19CL8A tq	$S_p = 6,5\text{ mA/V}$ $R_i = 200k$ $P_a = \text{max. } 3W$	
19D8	$S_T = 8\text{ mA/V}$ $R_i = 5k$ $\mu = 40$ $P_a = \text{max. } 2,5W$	
19DC8	=UBF89	
19EA8 tp	$S_p = 6,4\text{ mA/V}$ $R_i = 80k$ $P_a = \text{max. } 3,1W$	
19HR6 p	$S_T = 8,5\text{ mA/V}$ $R_i = 5k$ $\mu = 40$ $P_a = \text{max. } 3W$	

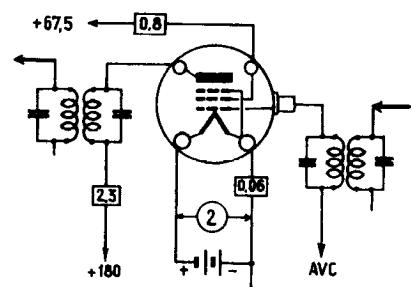
19HS6 p	<p>S=9,5 mA/V R_i=500k P_a=max.3W</p> <p>S=9,5 mA/V R_i=500k P_a=max.3W</p>
19J6 tt	<p>S=5,3 mA/V $\mu=38$ R_i=7,1k P_a=max.2x1.5 W</p> <p>B7G</p>
19T8 dddt	<p>S=1,2 mA/V $\mu=70$ R_i=58k P_a=max.1W</p> <p>B9A</p>
19W3 r	<p>min. 50Ω</p> <p>max. 180</p> <p>max. 100μ</p> <p>B9A</p>
19X3	=PY80
19X8 tp	<p>S_p=4,6 mA/V R_i=750k P_a=max.2W</p> <p>S_T=5,8 mA R_i=6,9k $\mu=40$ P_a=max.1W</p> <p>B9A</p>
19Y3	=PY82
1A3 d	<p>V_d max. = 115 V I_d max. = 0,5 mA</p> <p>B7G</p>

1A4

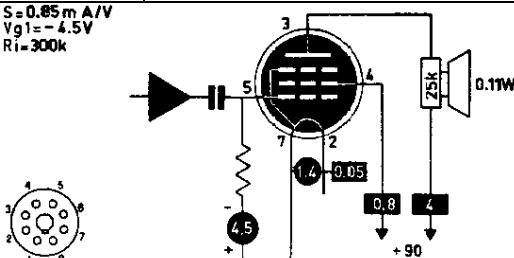
p

1A4

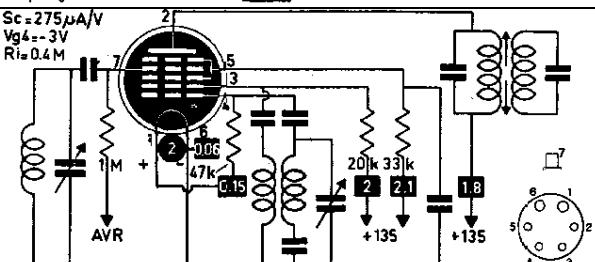
HF (V)

 $S = 0,75$
 $R = 1 \text{ M}\Omega$
 $V = -3 \dots -15$
**1A5**

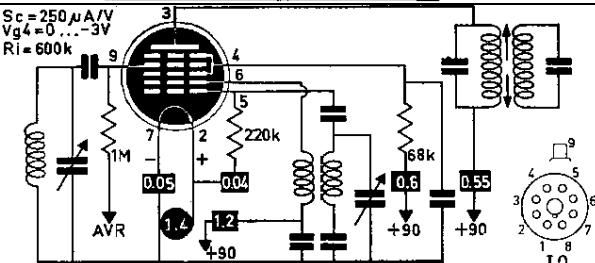
P

 $S = 0,85 \text{ mA/V}$
 $V_{g1} = -4,5 \text{ V}$
 $R_i = 300 \text{ k}\Omega$
**1A6**

H

 $S_c = 275 \mu\text{A/V}$
 $V_{g4} = -3 \text{ V}$
 $R_i = 0,4 \text{ M}\Omega$
**1A7**

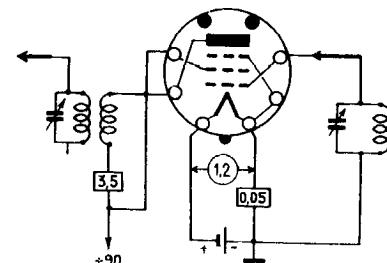
H

 $S_c = 250 \mu\text{A/V}$
 $V_{g4} = 0 \dots -3 \text{ V}$
 $R_i = 600 \text{ k}\Omega$
**1AB5**

p

1AB5

HF

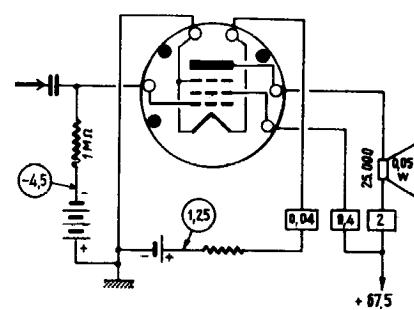
 $S = 1,10$
 $R = 275.000 \text{ }\Omega$
 $V = 0$


1AC5

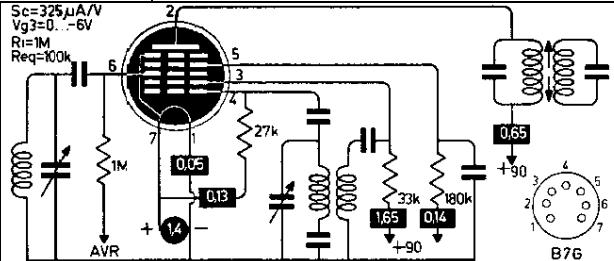
P

1AC5

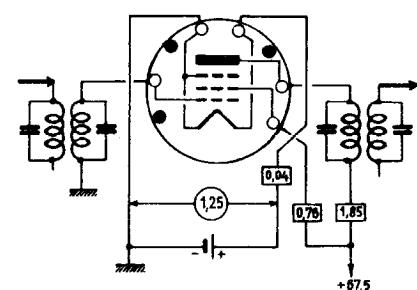
P

 $S = 0,75$
 $P = 0,15 \text{ mW}$
 $V = -4,5$
**1AC6**

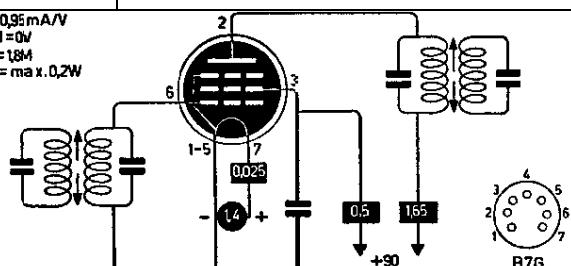
H

 $S_c = 325 \mu\text{A/V}$
 $V_g = 0 \dots -6 \text{ V}$
 $R_i = 1 \text{ M}\Omega$
 $R_{eq} = 100 \text{ k}\Omega$
**1AD5**

p

1AD5
HF
 $S = 0,735$
 $P = 0,7 \text{ mW}$
 $V = 0$
**1AF4**

p

 $S_c = 0,95 \text{ mA/V}$
 $V_g = 0 \text{ V}$
 $R_i = 18 \text{ M}\Omega$
 $P_a = \text{max } 0,2 \text{ W}$
**1AH5**

=DAF96

1AJ4

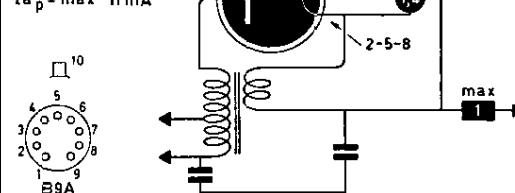
=DF96

1AN5

=DF97

1AX2

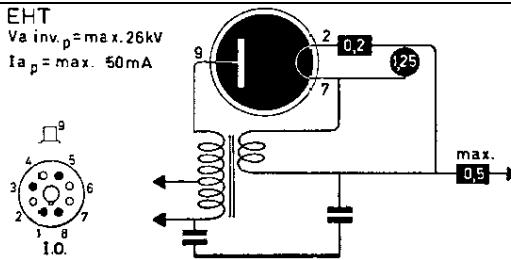
R

EHT
 $V_a \text{ inv.}_p = \text{max } 25 \text{ kV}$
 $I_a_p = \text{max } 11 \text{ mA}$


1B3

R

EHT
 $V_{a\ inv,p} = \text{max. } 26\text{kV}$
 $I_{a,p} = \text{max. } 50\text{mA}$

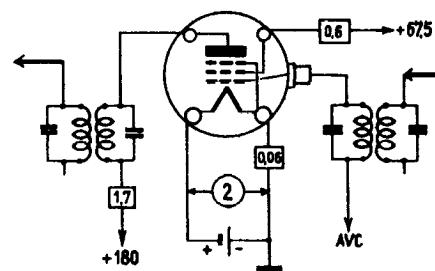
**1B4**

p

1B4

HF(v)

S = 0,65
 P = 1,5 MΩ
 V = -3 - 8

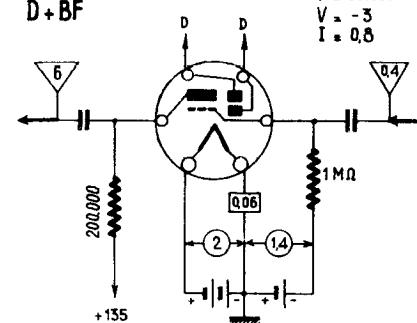
**1B5**

ddt

1B5

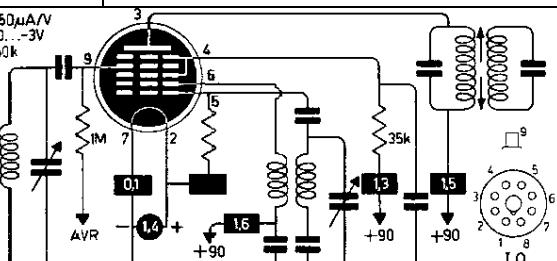
D+BF

S = 0,575
 P = 35.000
 V = -3
 I = 0,8

**1B7**

H

Sc = 350 μA/V
 $V_{g4} = 0 \dots -3V$
 $R_i = 350k$

**1B8**

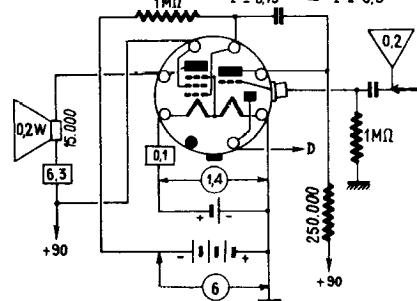
dtP

1B8

D+BF+P

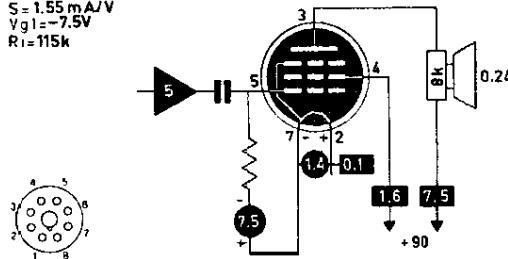
TRIODE S = 0,3
 $P = 14.000$
 $V = 0$
 $I = 0,15$

PENTODE S = 1,15
 $P = 0,25 M\Omega$
 $V = -6$
 $I = 6,3$

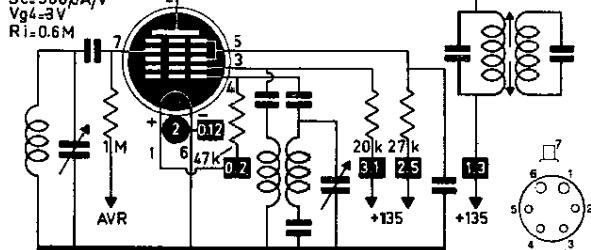


1C5

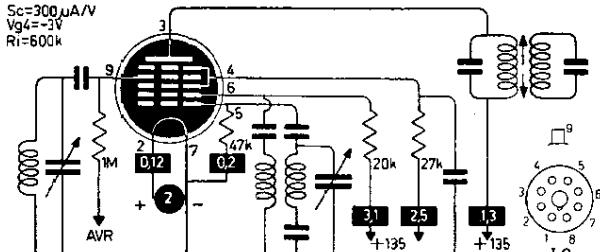
P

 $S = 1.55 \text{ mA/V}$
 $V_{g1} = -7.5V$
 $R_i = 115k$
**1C6**

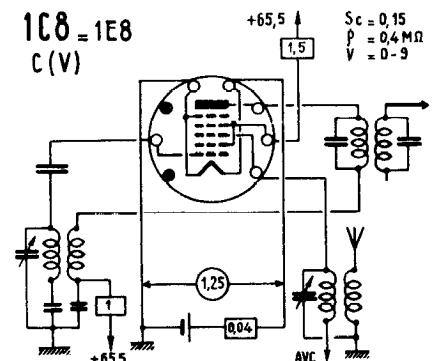
H

 $S_c = 300 \mu\text{A/V}$
 $V_{g4} = 3V$
 $R_i = 0.6M$
**1C7**

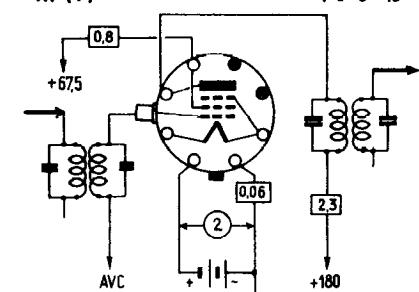
H

 $S_c = 300 \mu\text{A/V}$
 $V_{g4} = -3V$
 $R_i = 500k$
**1C8**

H

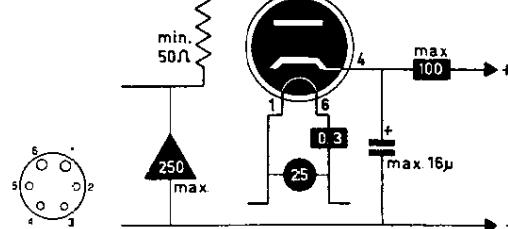
1C8 = 1E8
C (V)**1D5**

p

1D5
HF (V)
 $S = 0.75$
 $P = 1M\Omega$
 $V = -3 - 15$
**1D6**

r

2-5

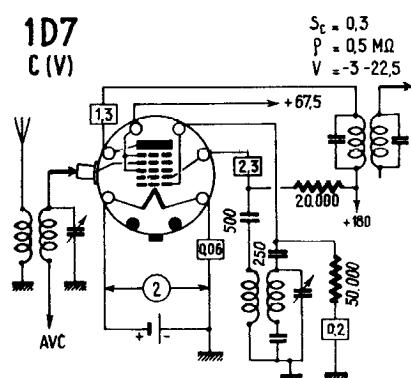


1D7

H

1D7

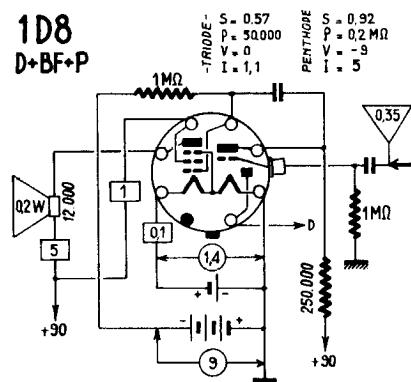
C(V)

**1D8**

dtP

1D8

D+BF+P

**1E3**

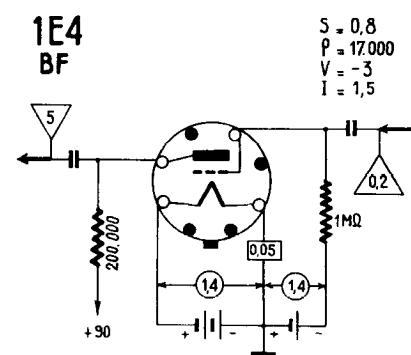
=DC80

1E4

t

1E4

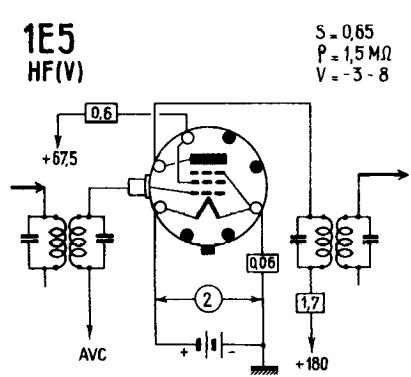
BF

**1E5**

p

1E5

HF(V)

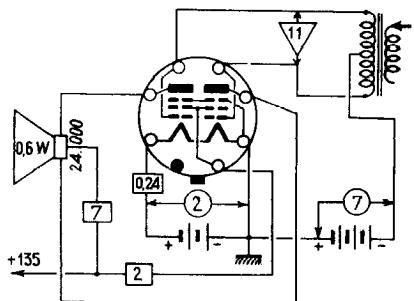


1E7

PP

1E7

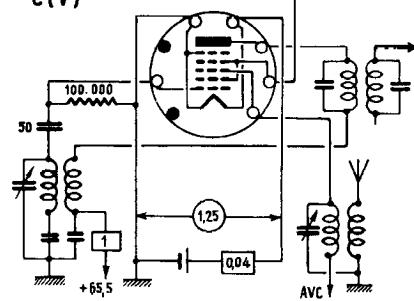
P

 $S = 1,4$
 $P = 0,25 \text{ M}\Omega$
 $V = -7$
**1E8**

H

1E8

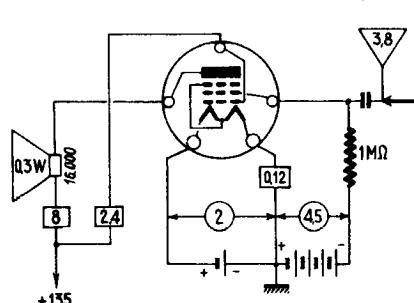
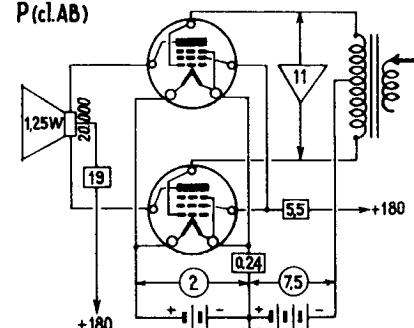
C(V)

 $S_C = 0,15$
 $P = 0,4 \text{ M}\Omega$
 $V = 0, -9$
**1F4**

P

1F4

P

 $S = 1,7$
 $P = 0,2 \text{ M}\Omega$
 $V = -4,5$
**1F4****P(cL.AB)**

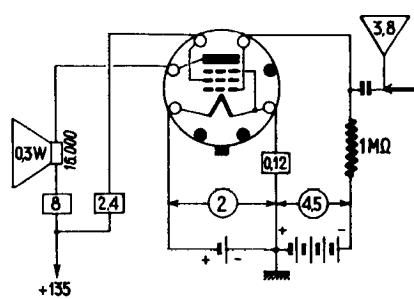
1F5

P

1F5

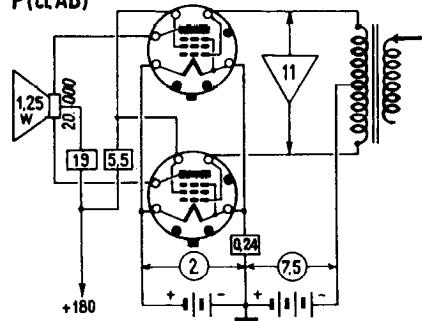
P

$S = 1,7$
 $P = 0,2 \text{ M}\Omega$
 $V = -4,5$



1F5

P(cLAB)



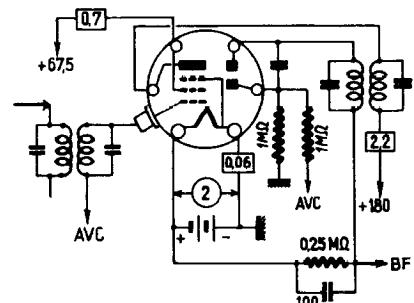
1F6

ddp

1F6

HF(v)+D

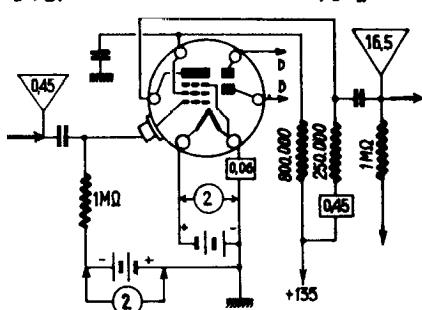
$S = 0,65$
 $P = 1 \text{ M}\Omega$
 $V = -15 - 12$



1F6

D+BF

$S = 0,65$
 $P = 1 \text{ M}\Omega$
 $V = -2$

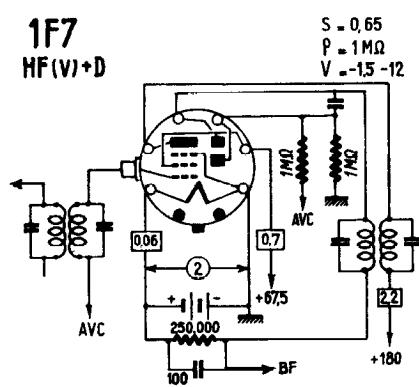


1F7

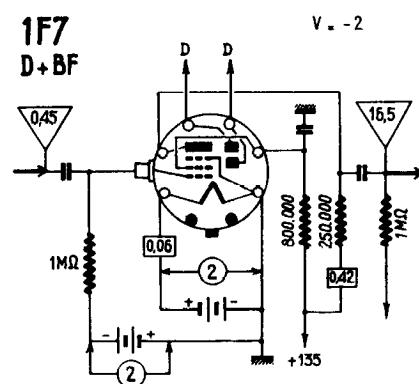
ddp

1F7

HF(V)+D

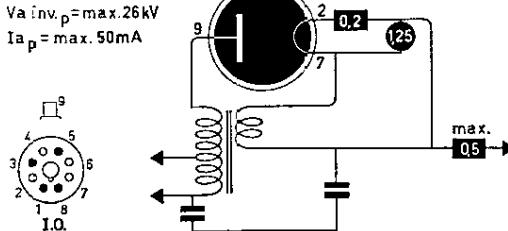
**1F7**

D+BF

**1G3**

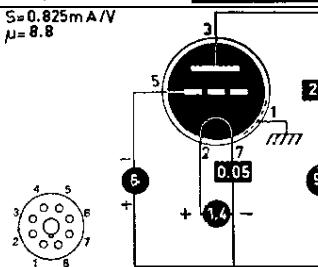
R

EHT
 $V_{a\text{inv},p} = \text{max. } 26 \text{kV}$
 $I_{a,p} = \text{max. } 50 \text{mA}$

**1G4**

t

$S = 0.825 \text{ mA/V}$
 $\mu = 8.8$

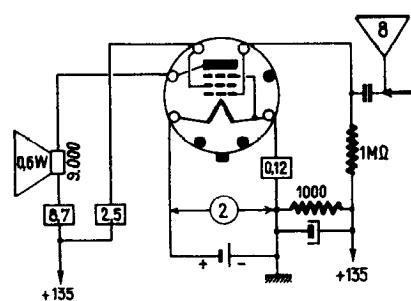
**1G5**

P

1G5

P

$S = 1.55$
 $P = 0.16 \text{ M}\Omega$
 $V = -13.5$

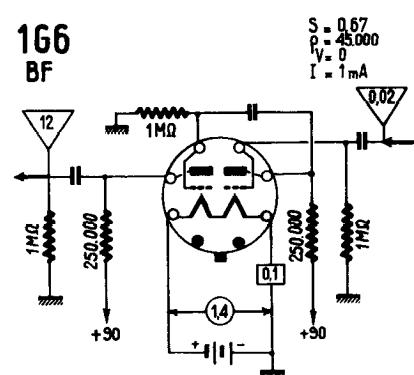


1G6

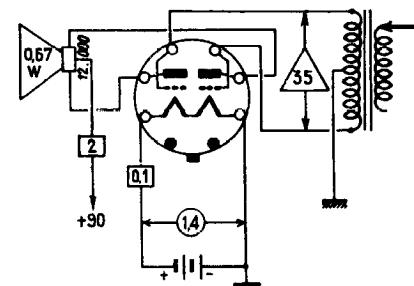
tt

166

BF

**166**

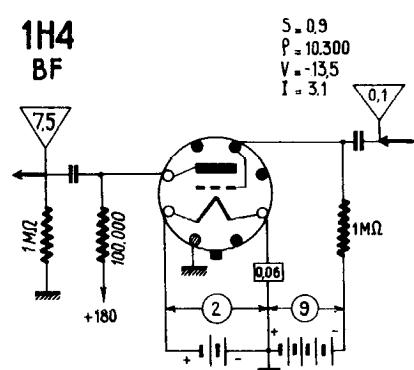
P (cl. B)

**1H4**

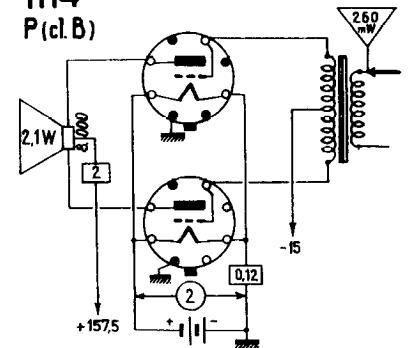
t

1H4

BF

**1H4**

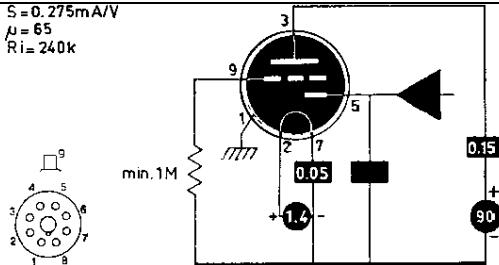
P (cl. B)



1H5

dt

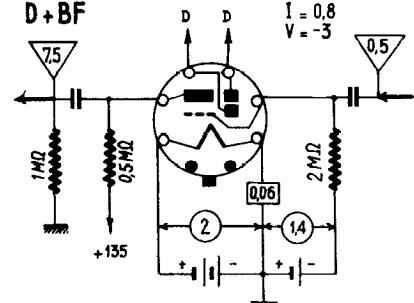
$S = 0.275 \text{ mA/V}$
 $\mu = 65$
 $R_i = 240 \text{ k}\Omega$

**1H6**

ddt

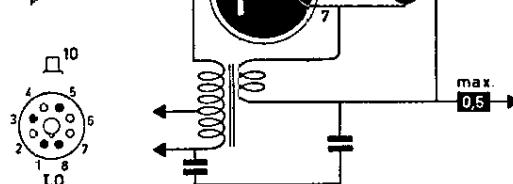
1H6

D + BF
 $S = 0.575$
 $P = 35.000$
 $I = 0.8$
 $V = -3$

**1J3**

R

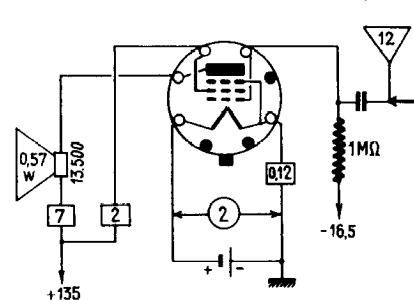
EHT
 $V_a \text{ inv. p} = \text{max. } 25 \text{ kV}$
 $I_{a_p} \text{ max. } 50 \text{ mA}$

**1J5**

P

1J5

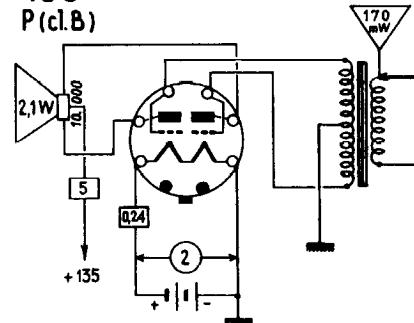
S = 0.95
 $\dot{\rho} = 0.1 \text{ M}\Omega$
 $V = -16.5$

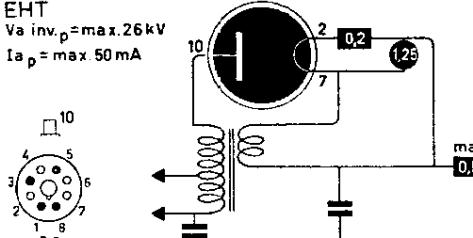
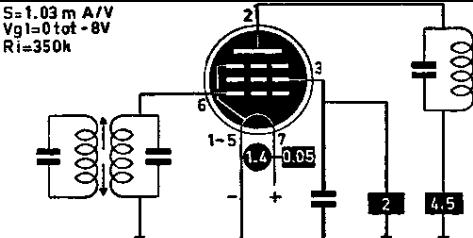
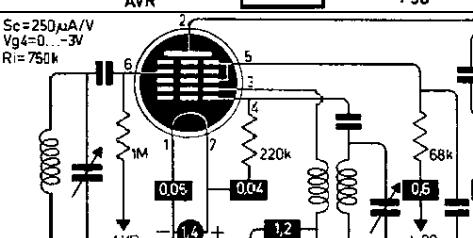
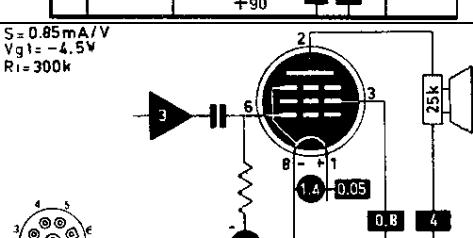
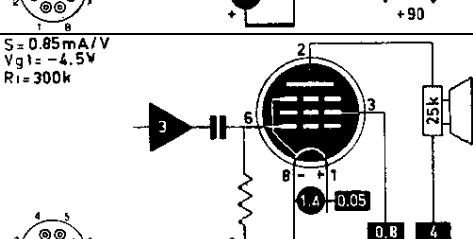
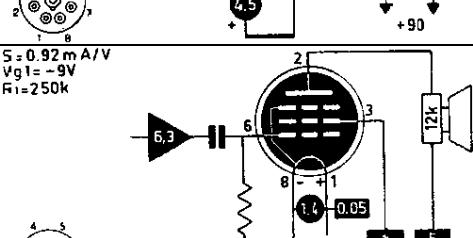
**1J6**

TT

1J6

P (cl. B)



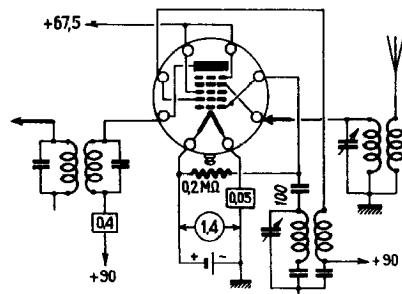
1K3 R		EHT $V_a \text{ inv.}_p = \text{max. } 26 \text{ kV}$ $I_{a_p} = \text{max. } 50 \text{ mA}$ 
1L4 P		S = 1.03 m A/V $V_{g1} = 0 \text{ tot -8 V}$ $R_i = 350 \text{ k}\Omega$ 
1L6 H		$S_c = 250 \mu\text{A/V}$ $V_{g4} = 0 \dots -3 \text{ V}$ $R_i = 750 \text{ k}\Omega$ 
1LA4 P		S = 0.85 mA/V $V_{g1} = -4.5 \text{ V}$ $R_i = 300 \text{ k}\Omega$ 
1LA6 H		S = 0.85 mA/V $V_{g1} = -4.5 \text{ V}$ $R_i = 300 \text{ k}\Omega$ 
1LB4 P		S = 0.92 mA/V $V_{g1} = -9 \text{ V}$ $R_i = 250 \text{ k}\Omega$ 

1LB6

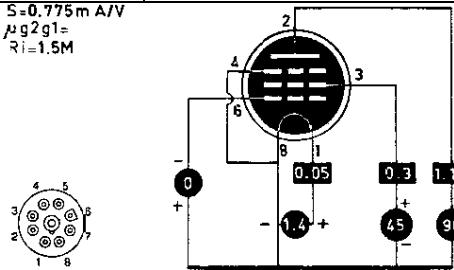
H

1LB6

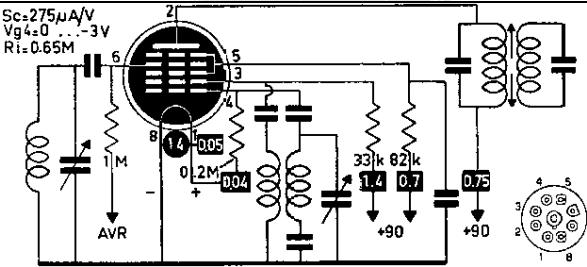
C

 $S_C = 0.1$
 $P = 2 \text{ mW}$
 $V = 0$
**1LC5**

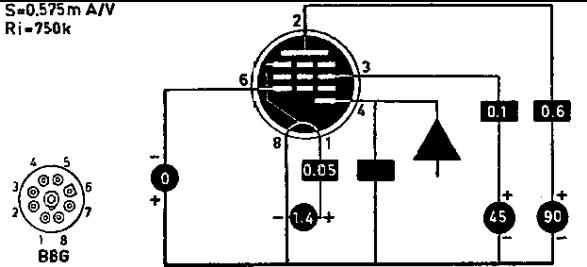
p

 $S = 0.775 \text{ mA/V}$
 $\mu g_2 g_1 =$
 $R_i = 1.5 \text{ M}\Omega$
**1LC6**

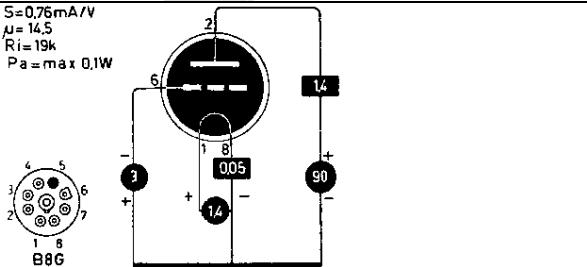
H

 $S_C = 275 \mu \text{A/V}$
 $V_{g2} = -3 \text{ V}$
 $R_i = 0.65 \text{ M}\Omega$
**1LD5**

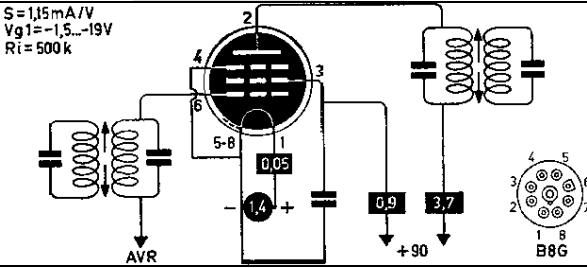
dp

 $S = 0.575 \text{ mA/V}$
 $R_i = 750 \text{ k}\Omega$
**1LE3**

t

 $S = 0.76 \text{ mA/V}$
 $\mu = 14.5$
 $R_i = 19 \text{ k}\Omega$
 $P_a = \text{max } 0.1 \text{ W}$
**1LG5**

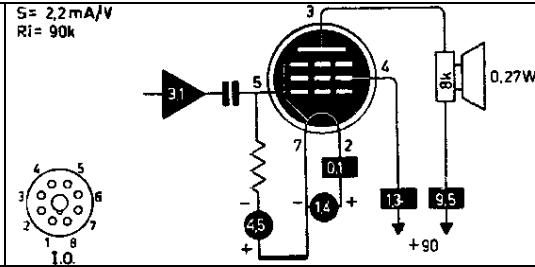
p

 $S = 1.15 \text{ mA/V}$
 $V_{g1} = -1.5 \dots -19 \text{ V}$
 $R_i = 500 \text{ k}\Omega$


1LH4 dt	<p>$S = 0.275 \text{ mA/V}$ $\mu = 65$ $R_i = 240 \text{ k}\Omega$ $P_a = \text{max } 13 \text{ mW}$</p> <p>B8G 1 8 2 3 4 5 6 7</p>
1LN5 p	<p>$S = 0.8 \text{ mA/V}$ $V_{g1} = 0 \text{ to } -4.5 \text{ V}$ $R_i = 1.1 \text{ M}\Omega$</p> <p>$S = 0.8 \text{ mA/V}$ $R_i = 1.1 \text{ M}\Omega$</p> <p>B8G 1 8 2 3 4 5 6 7</p>
1M3	=DM70
1N3	=DM71
1N5 p	<p>$S = 0.75 \text{ mA/V}$ $\mu g_2 g_1 = 27$ $R_i = 1.5 \text{ M}\Omega$ $P_a = \text{max. } 0.7 \text{ W}$</p> <p>B8G 1 8 2 3 4 5 6 7</p>
1N6 dP	<p>$S = 0.8$ $P = 0.3 \text{ M}\Omega$ $V = -4.5$</p>
1P5 p	<p>$S = 0.75 \text{ mA/V}$ $V_{g1} = 0 \dots -12 \text{ V}$ $R_i = 800 \text{ k}\Omega$</p> <p>B8G 1 8 2 3 4 5 6 7</p>

1Q5

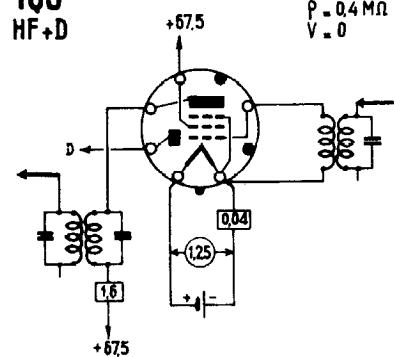
P

 $S = 2,2 \text{ mA/V}$
 $R_i = 90\text{k}$ **1Q6**

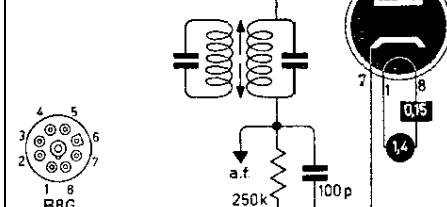
dp

106

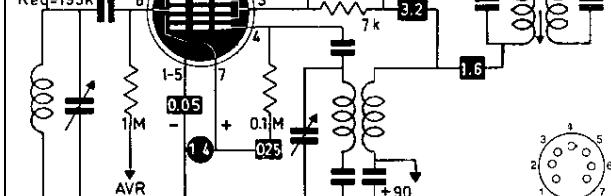
HF+D

 $S = 0,6$
 $P = 0,4 \text{ M}\Omega$
 $V = 0$ **1R4**

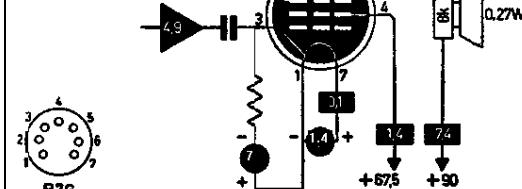
R

 $V_d \text{ max.} = 117\text{V}$
 $I_d \text{ max.} = 1\text{mA}$ **1R5**

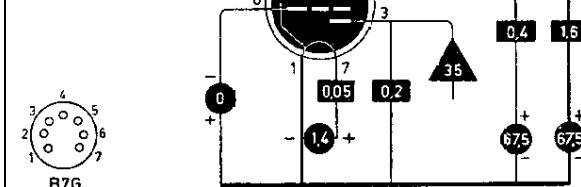
H

 $S_c = 300 \mu\text{A/V}$
 $V_g 3 = 0 \dots -14\text{V}$
 $R_i = 0.6\text{M}$
 $R_{eq} = 195\text{k}$ **1S4**

P

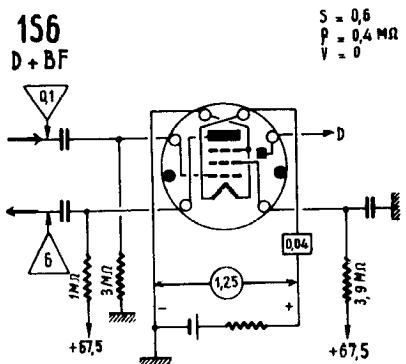
 $S = 159 \text{ mA/V}$
 $R_i = 100\text{k}$
 $P_a = \text{max. } 0.07\text{W}$ **1S5**

dp

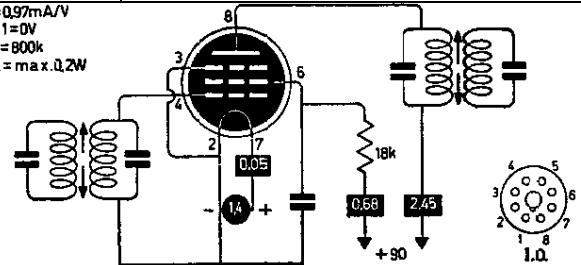
 $S = 0,625 \text{ mA/V}$
 $\mu g_2 g_1 = 13,5$
 $R_i = 600\text{k}$
 $P_a = \text{max. } 0,25\text{W}$ 

1S6

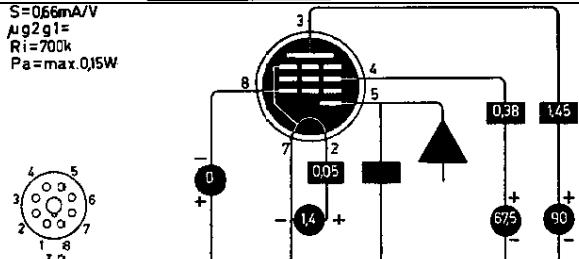
dp

**1SA6**

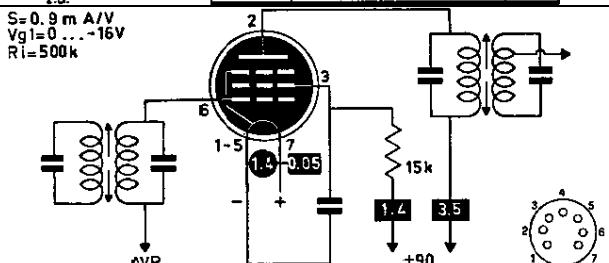
p

**1SB6**

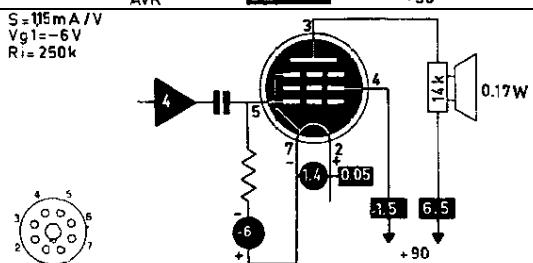
dp

**1T4**

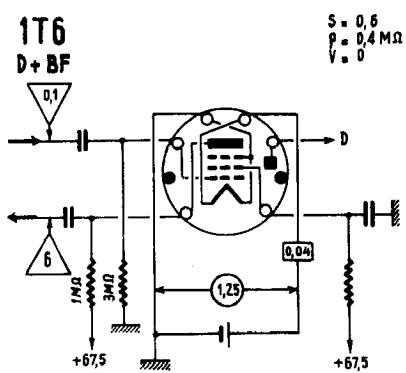
p

**1T5**

P

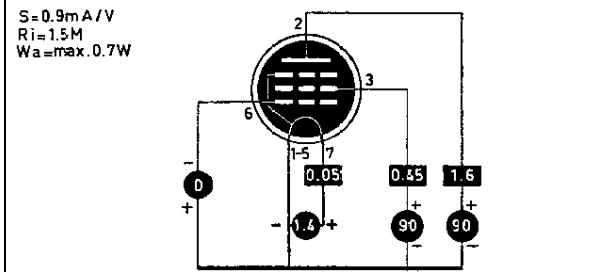
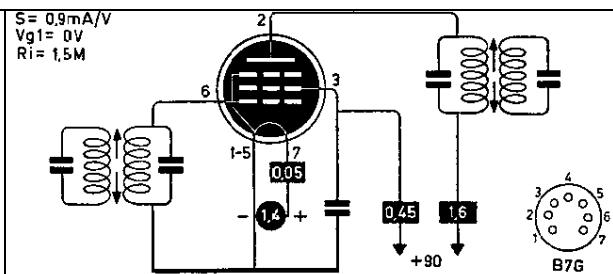
**1T6**

dp



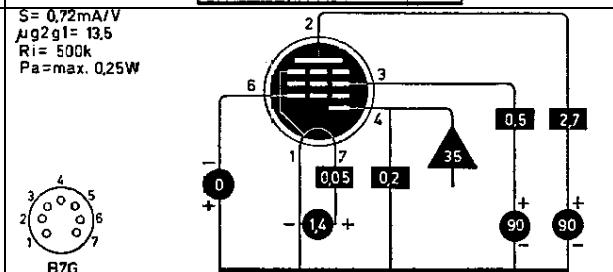
1U4

p



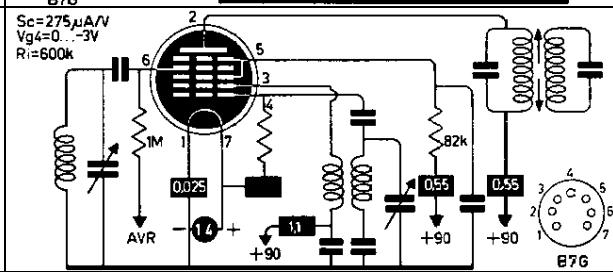
1U5

dp



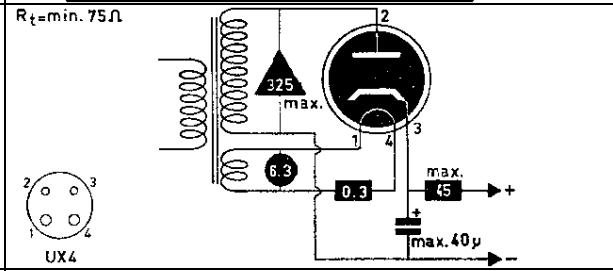
1U6

H



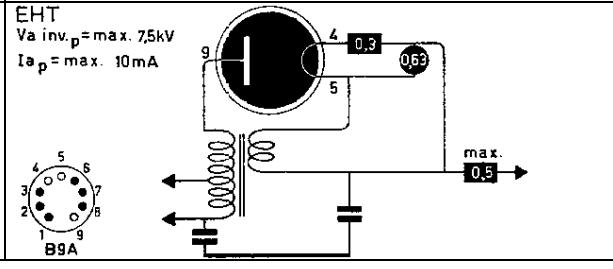
1V

r



1V2

R

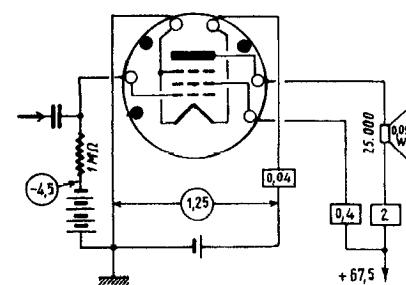


1V5

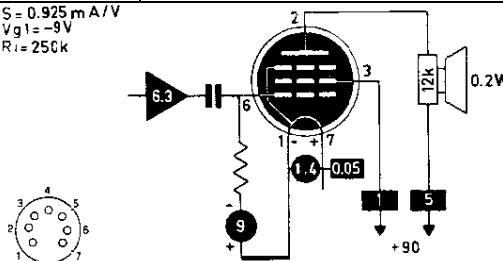
P

1V5

P

 $S = 0,75$
 $P = 0,15 \text{ M}\Omega$
 $V = -4,5$
**1W4**

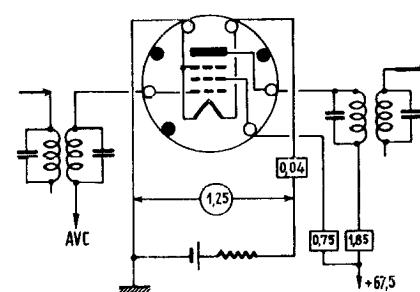
P

 $S = 0,925 \text{ mA/V}$
 $V_{g1} = -9 \text{ V}$
 $R_i = 250\text{k}$
**1W5**

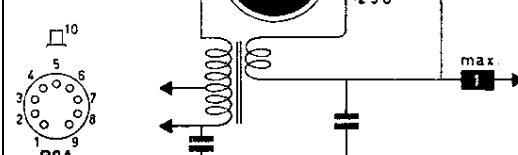
P

1W5 = 1AD5

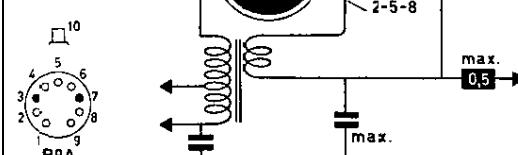
HF

 $S = 0,735$
 $P = 0,7 \text{ M}\Omega$
 $V = 0-6$
**1X2A**

R

EHT
 $V_{a \text{ inv.}} = \text{max. } 18 \text{ kV}$
 $I_{a \text{ p}} = \text{max. } 10 \text{ mA}$
**1X2B**

R

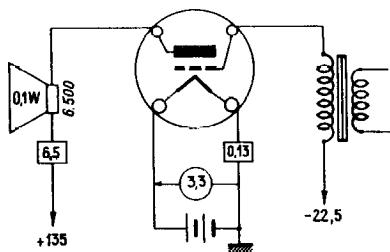
EHT
 $V_{a \text{ inv.}} = \text{max. } 22 \text{ kV}$
 $I_{a \text{ p}} = \text{max. } 45 \text{ mA}$


20

T

20

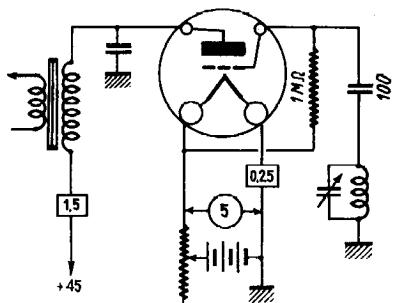
P

 $S = 0,525$
 $P = 6,300$
 $V = -22,5$
**200A**

t

200A

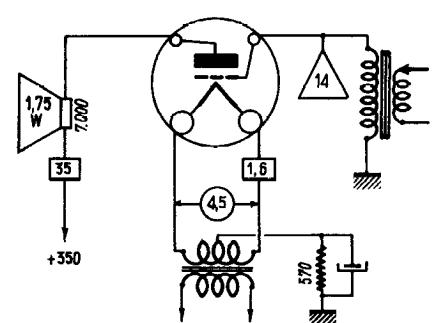
D

 $S = 0,67$
 $P = 30,000$
 $V = 0$
**205D**

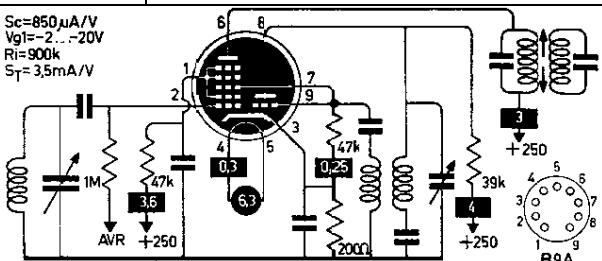
T~

205D

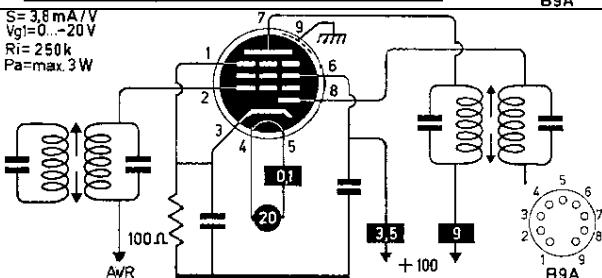
P

 $S = 1,8$
 $P = 3,600$
 $V = -20$
**20D4**

tH

 $S_c = 850 \mu A/V$
 $V_{g1} = -2...-20 V$
 $R_i = 500 k\Omega$
 $S_T = 3,5 mA/V$
**20EQ7**

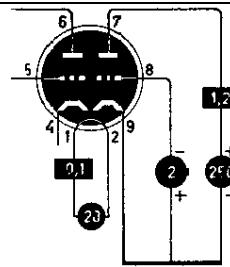
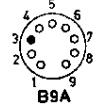
dp

 $S = 3,8 mA/V$
 $V_{g1} = 0...-20 V$
 $R_i = 250 k\Omega$
 $P_a = \text{max. } 3 W$


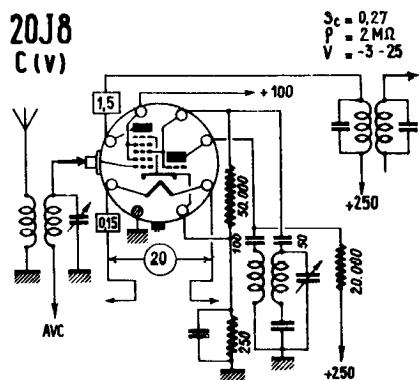
20EZ7

tt

$S = 1,6 \text{ mA/V}$
 $\mu = 100$
 $R_i = 62,5 \text{ k}\Omega$
 $P_a = \text{max. } 2 \times 1,2 \text{ W}$

**20J8**

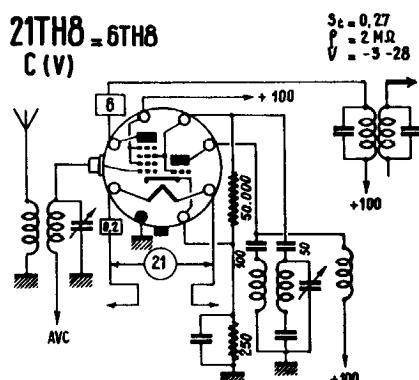
tH

20J8
C (V)**21A6**

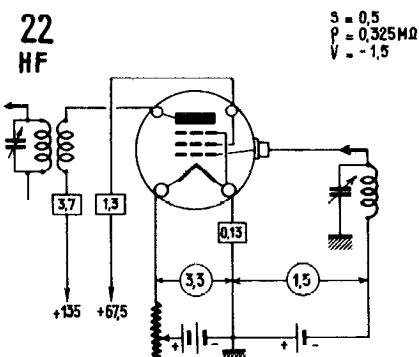
=PL81

21TH8

th

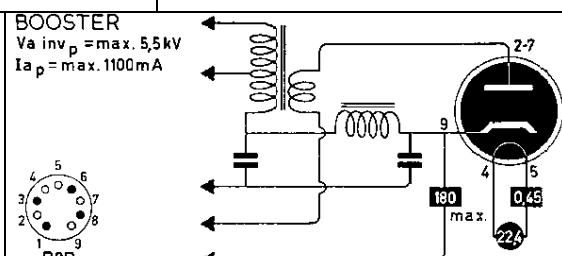
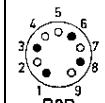
21TH8 = 6TH8
C (V)**22**

q

22
HF**22BH3**

R

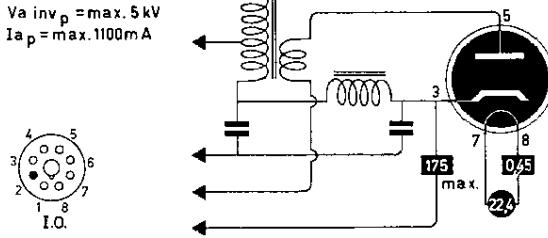
BOOSTER
 $V_a \text{ inv}_p = \text{max. } 5,5 \text{ kV}$
 $I_a p = \text{max. } 1100 \text{ mA}$



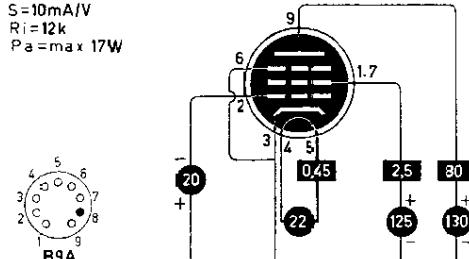
22DE4

R

BOOSTER

 $V_{a\ inv\ p} = \text{max. } 5 \text{ kV}$
 $I_{a\ p} = \text{max. } 1100 \text{ mA}$ **22JG6**

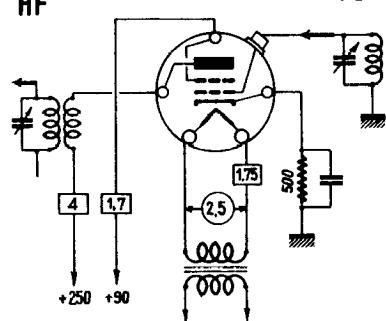
P

 $S = 10 \text{ mA/V}$
 $R_i = 12 \text{ k}\Omega$
 $P_a = \text{max. } 17 \text{ W}$ **24**

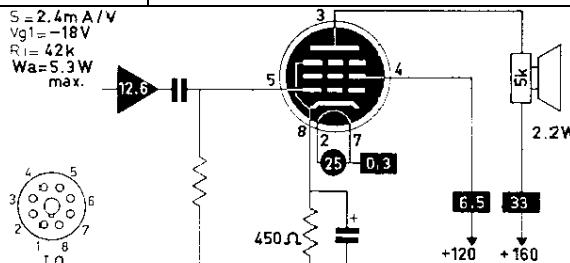
q

24

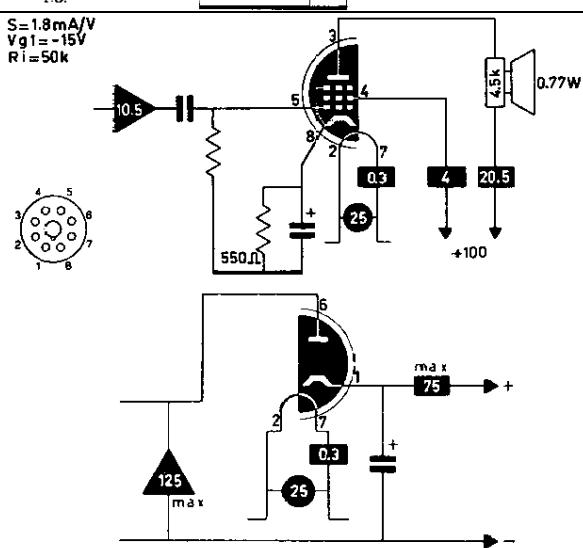
HF

 $S = 1$
 $P = 0.6 \text{ mW}$
 $V = -3$ **25A6**

P

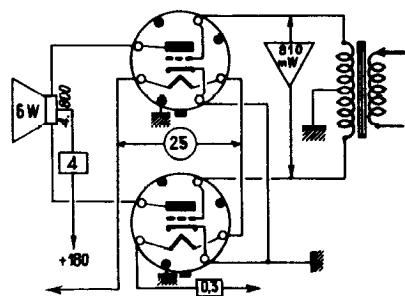
 $S = 2.4 \text{ mA/V}$
 $V_{g1} = -18 \text{ V}$
 $R_i = 42 \text{ k}\Omega$
 $W_a = 5.3 \text{ W}$
max.**25A7**

rP

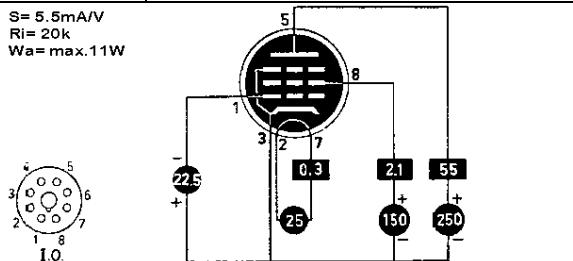
 $S = 1.8 \text{ mA/V}$
 $V_{g1} = -15 \text{ V}$
 $R_i = 50 \text{ k}\Omega$ 

25AC5

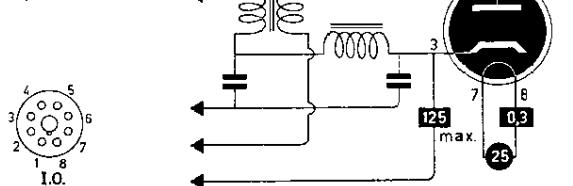
T

25AC5
P (cl. B)S = 3.6
P = 15.200Ω**25AV5**

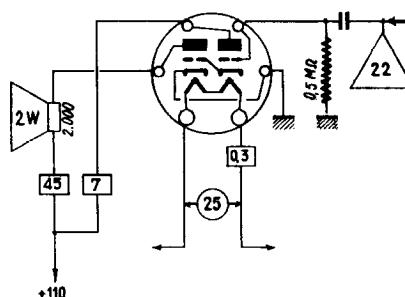
P

S = 5.5mA/V
R_i = 20k
P_a = max. 11W**25AX4**

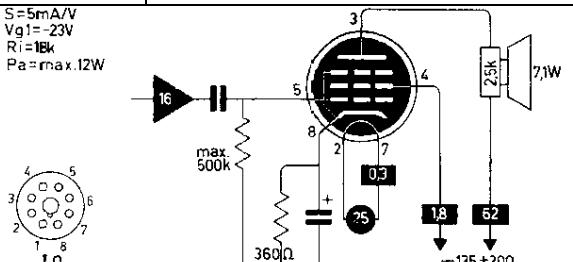
R

BOOSTER
V_{a inv p} = max. 4.4kV
I_{a p} = max. 750mA**25B5**

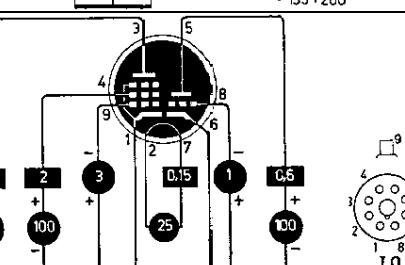
tT

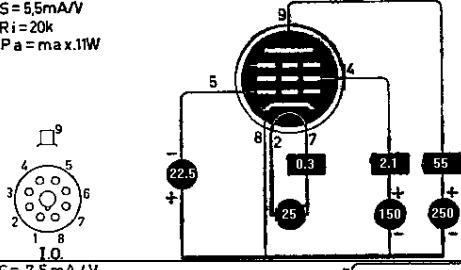
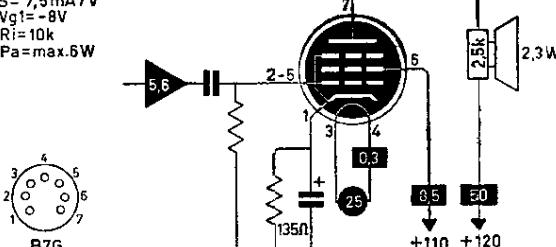
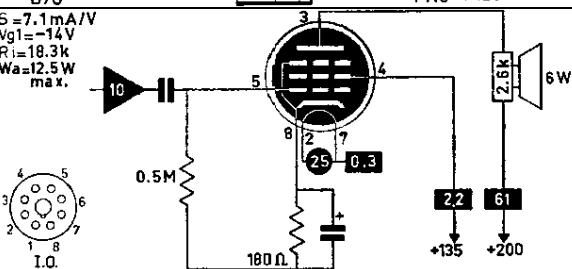
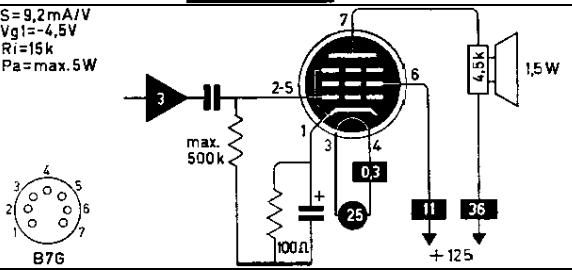
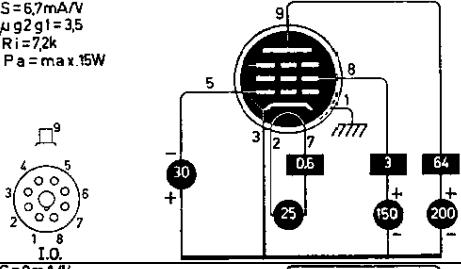
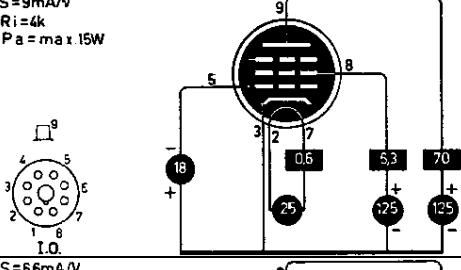
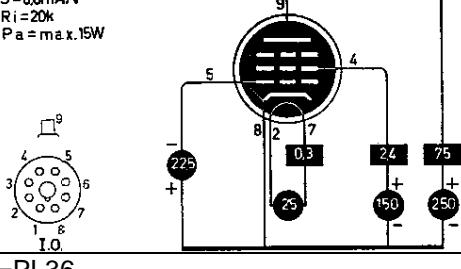
25B5
PS = 2.2
P = 11.500
V = 0**25B6**

P

S = 5mA/V
V_{g1} = -23V
R_i = 18k
P_a = max. 12W**25B8**

tp

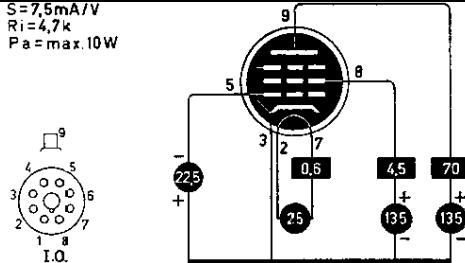
pentode:
S = 0.37mA/V
R_i = 185k
P_a = max. 1Wtriode:
S = 0.11mA/V
R_i = 75k
μ = 8.2
P_a = max. 0.5W

25BQ6 P	S=5,5mA/V R _i =20k P _a =max.11W	
25C5 P	S=7,5mA/V V _{g1} =-8V R _i =10k P _a =max.5W	
25C6 P	S=7,1mA/V V _{g1} =-14V R _i =18.3k P _a =max.12.5W	
25CA5 P	S=9,2mA/V V _{g1} =-4,5V R _i =15k P _a =max.5W	
25CD6 P	S=6,7mA/V $\mu g_2 g_1 = 35$ R _i =7.2k P _a =max.15W	
25DN6 P	S=5mA/V R _i =4k P _a =max.15W	
25DQ6A P	S=6,6mA/V R _i =20k P _a =max.15W	
25E5	=PL36	

25EC6

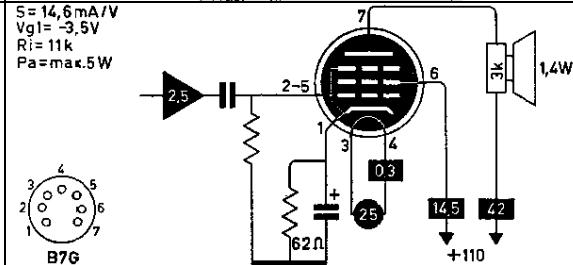
P

$S = 7,5 \text{ mA/V}$
 $R_i = 4,7 \text{ k}\Omega$
 $P_a = \text{max. } 10 \text{ W}$

**25EH5**

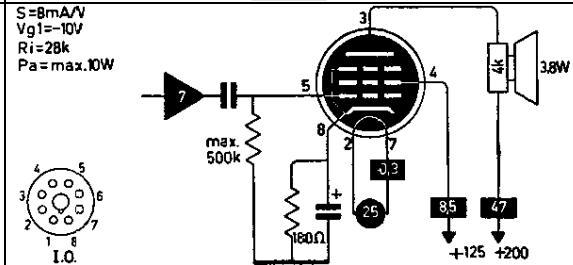
P

$S = 14,6 \text{ mA/V}$
 $V_{g1} = -3,5 \text{ V}$
 $R_i = 11 \text{ k}\Omega$
 $P_a = \text{max. } 5 \text{ W}$

**25L6**

P

$S = 8 \text{ mA/V}$
 $V_{g1} = -10 \text{ V}$
 $R_i = 28 \text{ k}\Omega$
 $P_a = \text{max. } 10 \text{ W}$

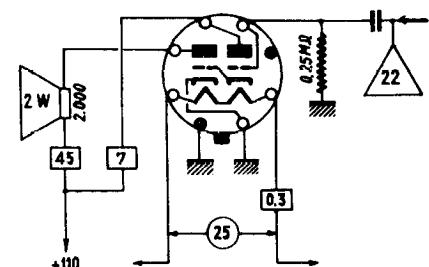
**25N6**

tT

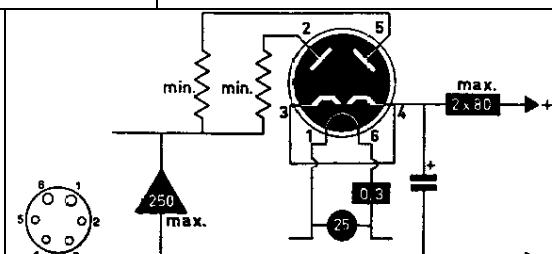
25N6 + 25B5

P

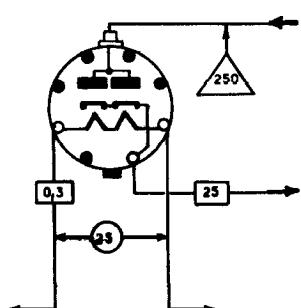
$S = 2,2$
 $P = 11.500$
 $V = 0$

**25RE**

rr

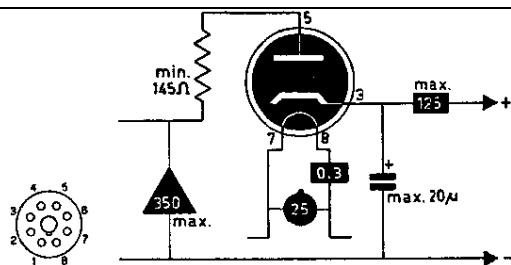
**25T3**

r

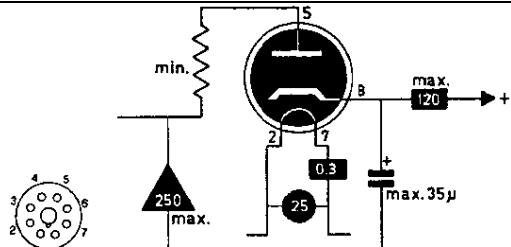
25T3
R (T) $\rho = 80 \Omega$ 

25W4

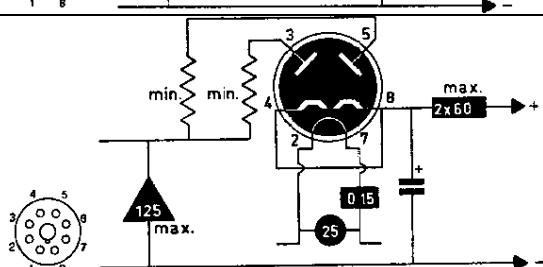
r

**25X4**

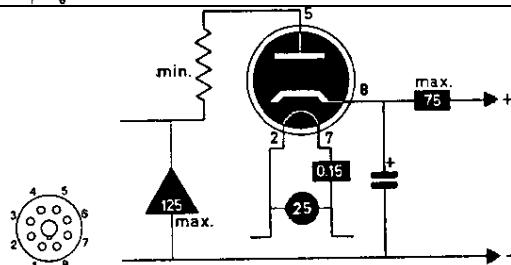
r

**25X6**

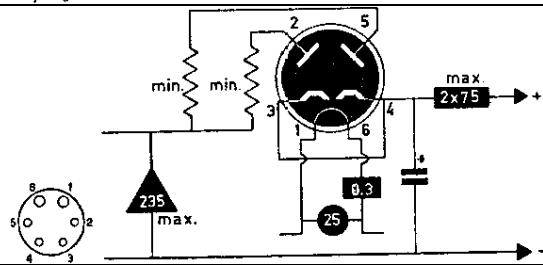
rr

**25Y4**

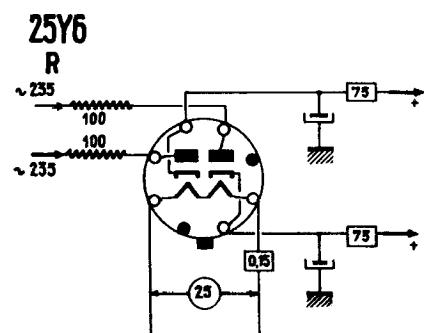
r

**25Y5**

rr

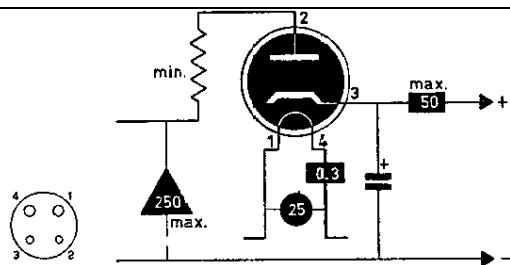
**25Y6**

rr



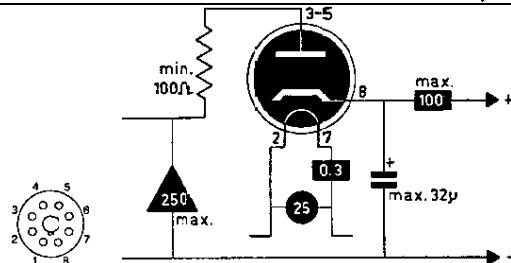
25Z3

r



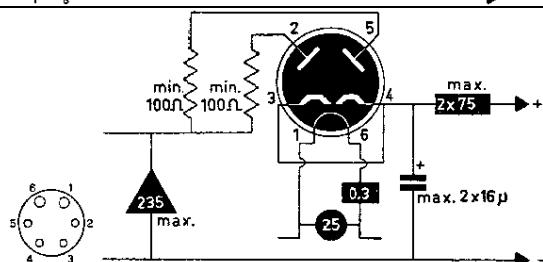
25Z4

r



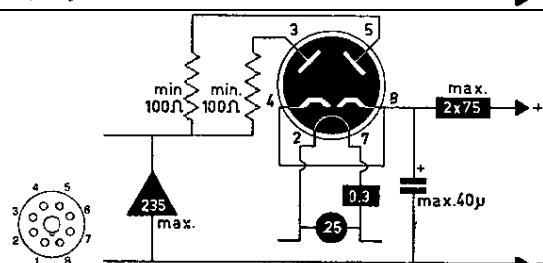
25Z5

rr



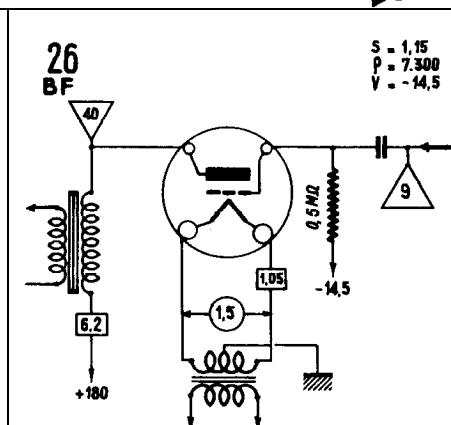
25Z6

rr



26

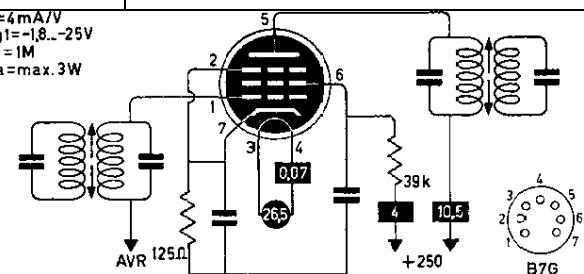
t

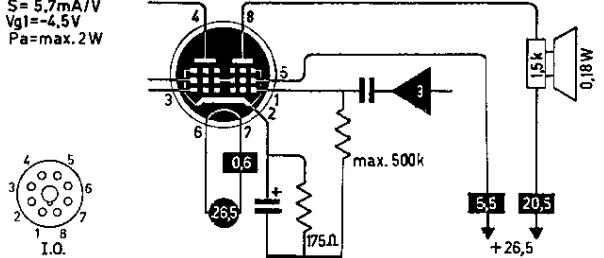
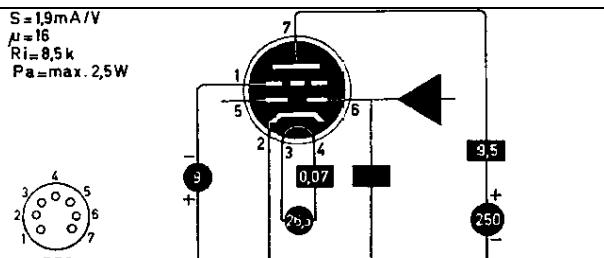
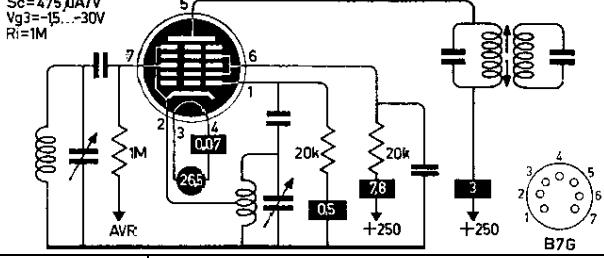
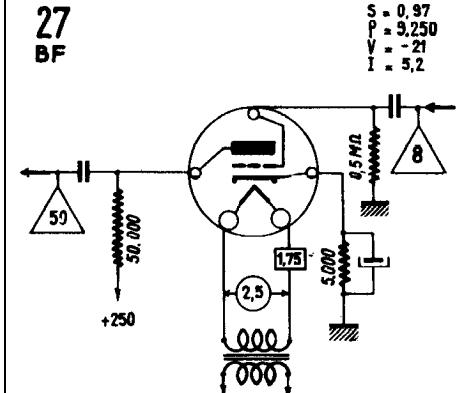
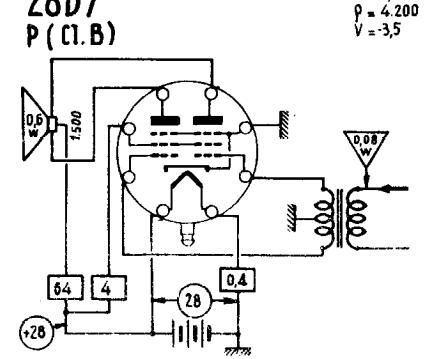


$S = 1,15$
 $\rho = 7.300$
 $V = -14,5$

26A6

p



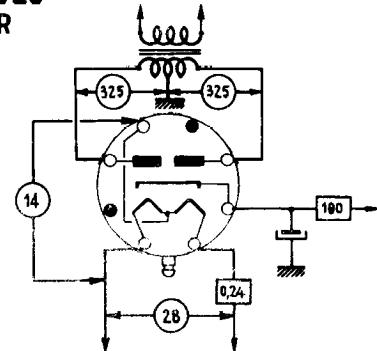
26A7 PP	S = 5,7 mA/V V _{g1} = -4,5 V P _a = max. 2 W 
26AQ8	=UCC85
26C6 ddt	S = 19 mA/V μ = 16 R _i = 8,5 k P _a = max. 2,5 W 
26D6 H	S _c = 475 μA/V V _{g3} = -15...-30 V R _i = 1 M 
27 t	27 BF S = 0,97 P = 9,250 V = -21 I = 5,2 
27GB5	=PL500
28AK8	=UABC80
28D7 PP	28D7 (C1.B) S = 3,4 P = 4,200 V = -3,5 

28Z5

rr

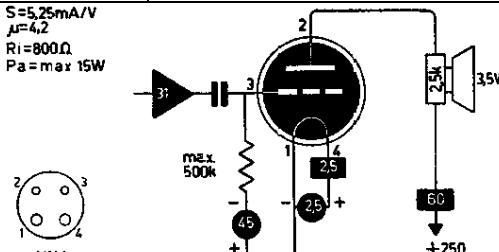
28Z5

R

**2A3**

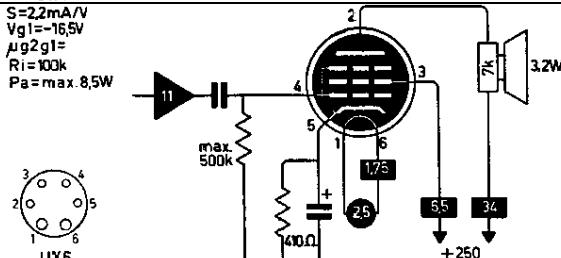
T

$S=5.25\text{mA/V}$
 $\mu=4.2$
 $R_i=800\Omega$
 $P_a=\text{max } 15\text{W}$

**2A5**

P

$S=2.2\text{mA/V}$
 $V_{g1}=-16.5\text{V}$
 $\mu g_2 g_1=$
 $R_i=100\text{k}$
 $P_a=\text{max } 8.5\text{W}$

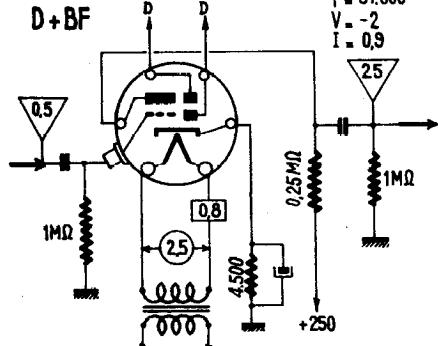
**2A6**

ddt

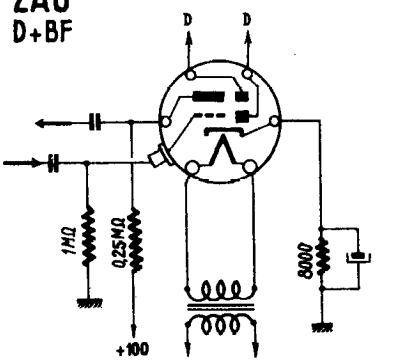
2A6

D+BF

$S=1.1$
 $\rho=91.000$
 $V=-2$
 $I=0.9$

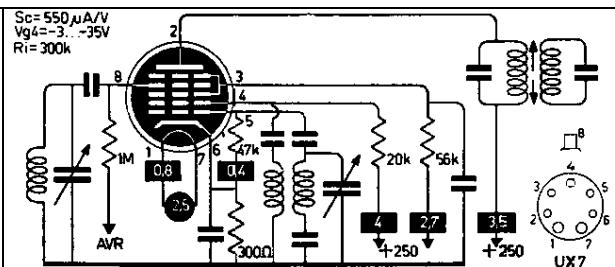
**2A6**

D+BF

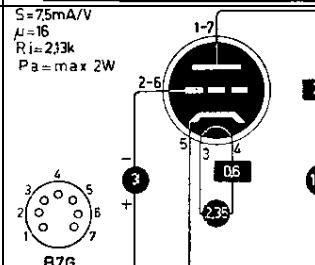


2A7

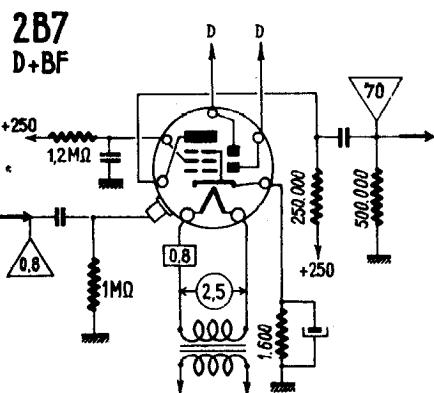
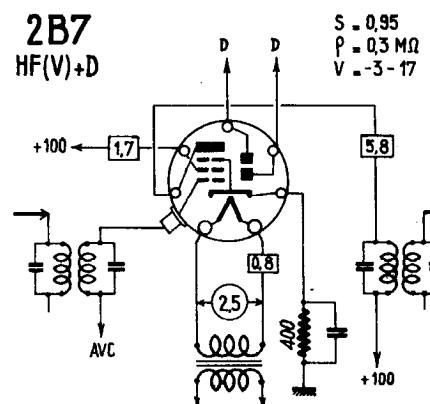
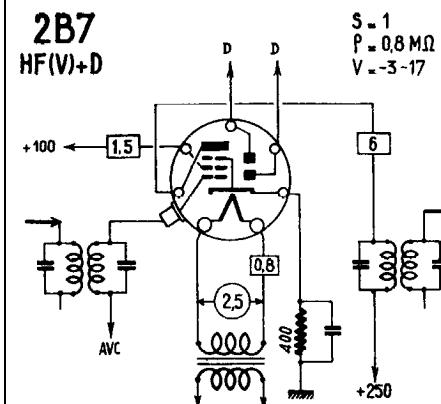
H

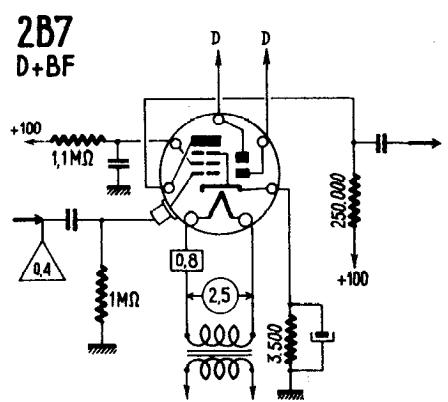
**2AF4**

t

**2B7**

ddp

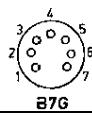




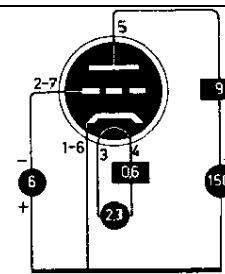
2BN4

t

$S = 6.8 \text{ mA/V}$
 $\mu = 43$
 $R_i = 5.3 \text{ k}\Omega$
 $P_a = \text{max. } 2 \text{ W}$



B7G

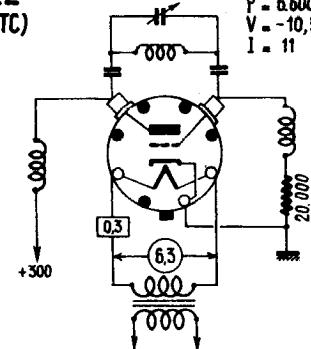
**2C22**

t~

2C22

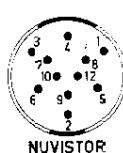
HF(OTC)

$S = 3$
 $\mu = 6.600$
 $V = -10.5$
 $I = 11$

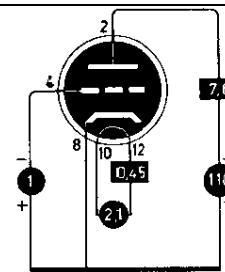
**2CW4**

t

$S = 9.8 \text{ mA/V}$
 $\mu = 62$
 $R_i = 6.3 \text{ k}\Omega$
 $P_a = \text{max. } 1 \text{ W}$

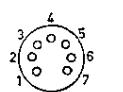


NUVISTOR

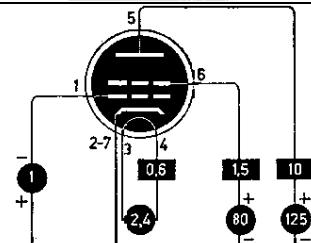
**2CY5**

q

$S = 8 \text{ mA/V}$
 $R_i = 100 \text{ k}\Omega$
 $P_a = \text{max. } 2 \text{ W}$

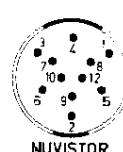


B7G

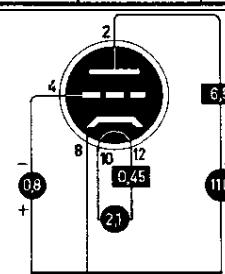
**2DS4**

t

$S = 9 \text{ mA/V}$
 $\mu = 62$
 $R_i = 6.9 \text{ k}\Omega$
 $P_a = \text{max. } 1 \text{ W}$



NUVISTOR

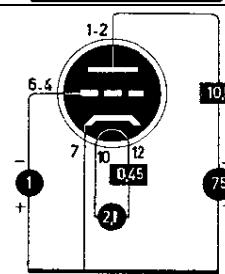
**2DV4**

t

$S = 11.5 \text{ mA/V}$
 $\mu = 35$
 $R_i = 3.1 \text{ k}\Omega$
 $P_a = \text{max. } 1 \text{ W}$



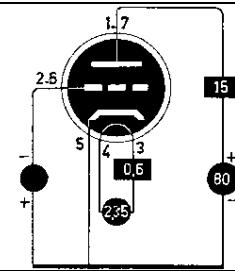
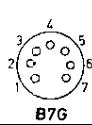
NUVISTOR



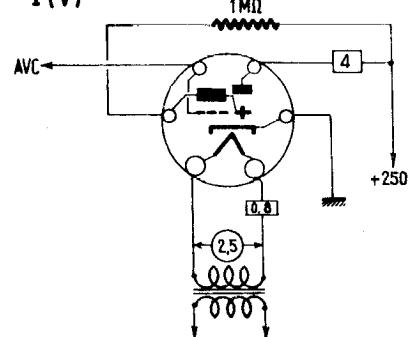
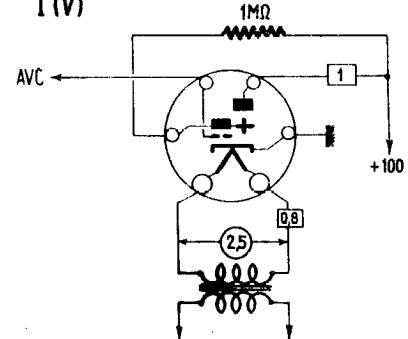
2DZ4

t

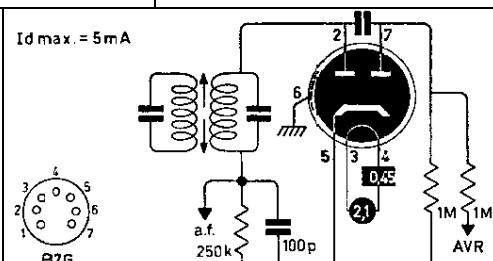
$S=6,7 \text{ mA/V}$
 $\mu=14$
 $R_i=2\text{k}$
 $P_a=\text{max. } 2,3\text{W}$

**2E5**

ti

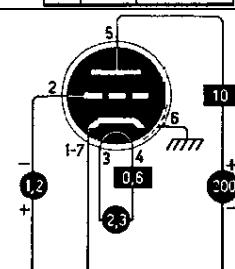
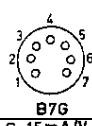
2E5
I(V) $V = 0 - 8$ **2E5**
I(V) $V = 0 - 3,3$ **2EN5**

dd

 $I_d \text{ max.} = 5 \text{ mA}$ **2ER5**

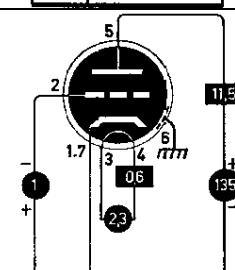
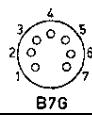
t

$S=10,5 \text{ mA/V}$
 $\mu=80$
 $R_i=8\text{k}$
 $P_a=\text{max. } 2,2\text{W}$

**2GK5**

t

$S=15 \text{ mA/V}$
 $\mu=78$
 $R_i=5,4\text{k}$
 $P_a=\text{max. } 2,5\text{W}$

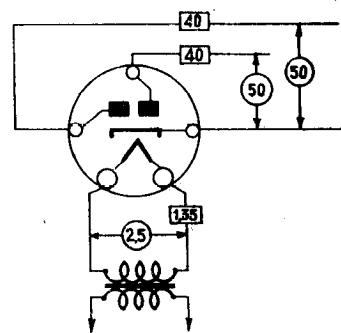


2S

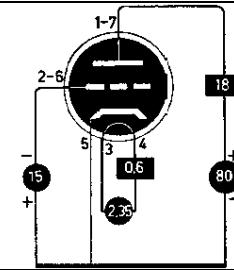
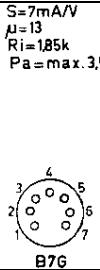
rr

2S/45

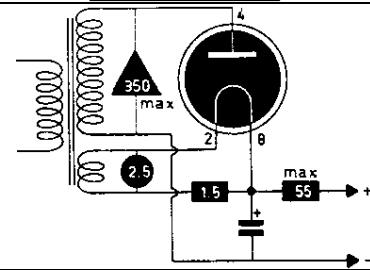
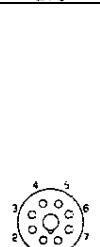
D

 $V_{max} = 50$
 $I_{max} = 40$ **2T4**

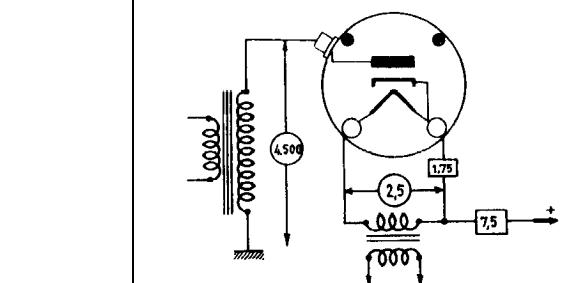
t

 $S=7mA/V$
 $\mu=13$
 $R_i=1.85k$
 $P_a=\text{max. } 3.5W$ **2W3**

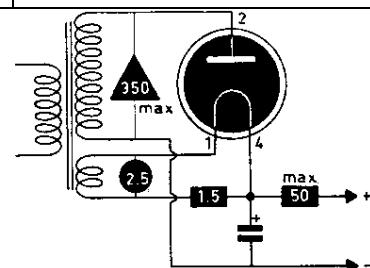
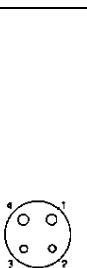
r

**2X2A**

R

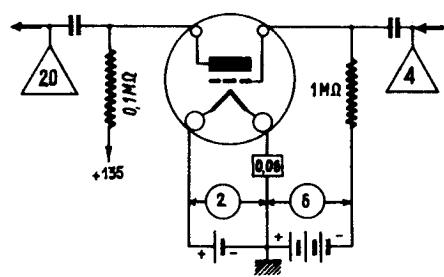
2X2A
R (T)**2Z2**

r



30

t

30 - 1H4
BFS = 0,9
P = 10.300
V = -9**30A5**

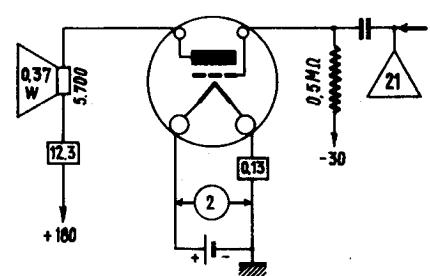
=HL94

30AE3

=PY88

31

T

31
PS = 1
P = 3.800
V = -30**31A3**

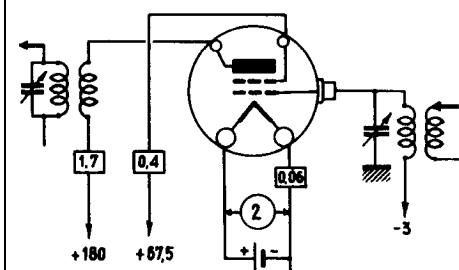
=UY41

31AV3

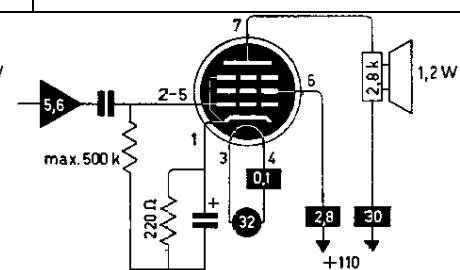
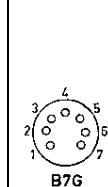
=UY89

32

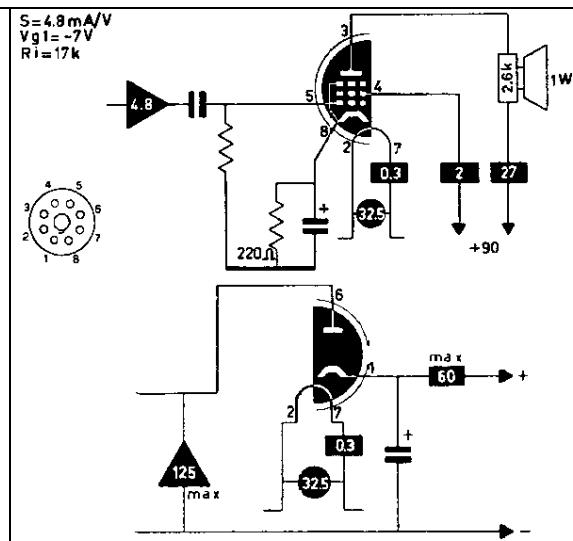
q

32
HFS = 0,65
P = 1.2 MΩ
V = -3**32ET5**

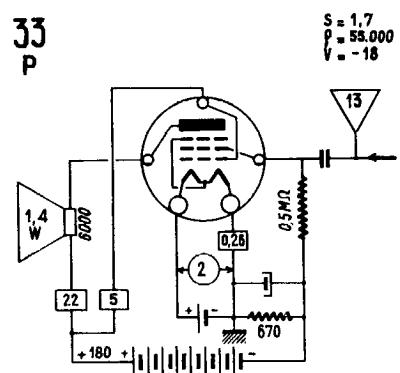
P

S = 5,5 mA/V
Vg1 = -7,5 V
Ri = 21,5 k
Pa = max. 5,4 W

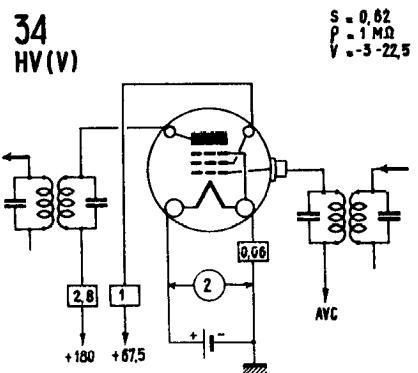
32L7
rP



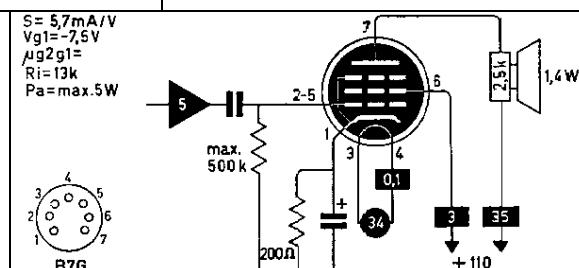
33
P



34
p



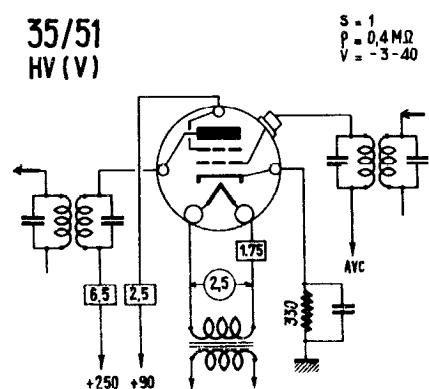
34GD5
P



35

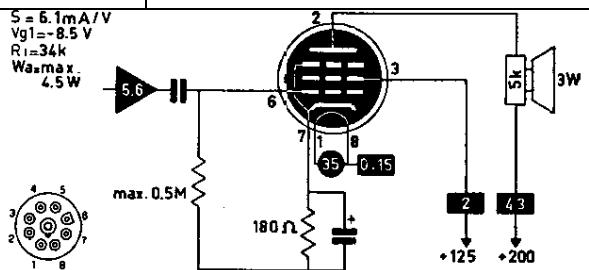
q

35/51
HV (V)



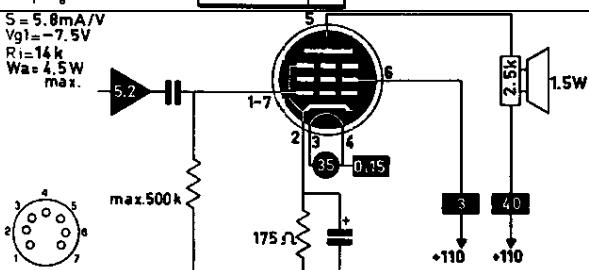
35A5

P



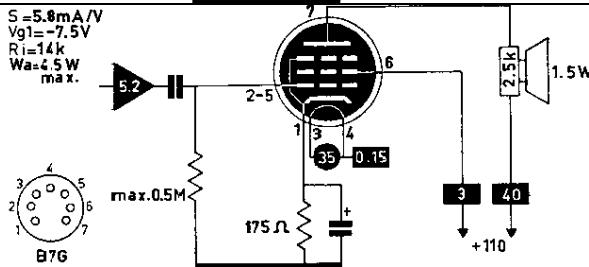
35B5

P



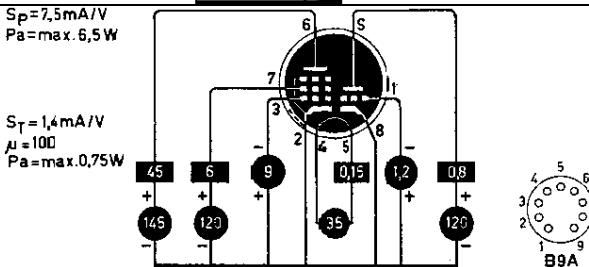
35C5

P



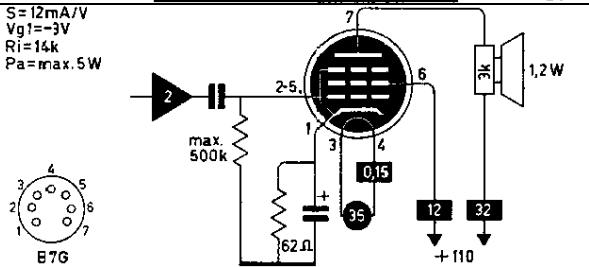
35DZ8

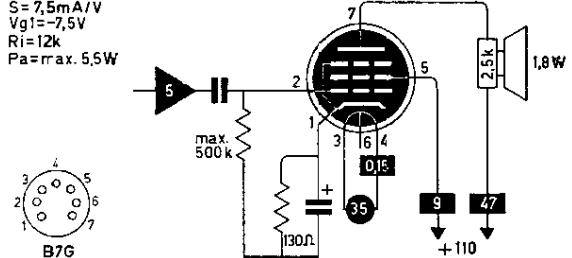
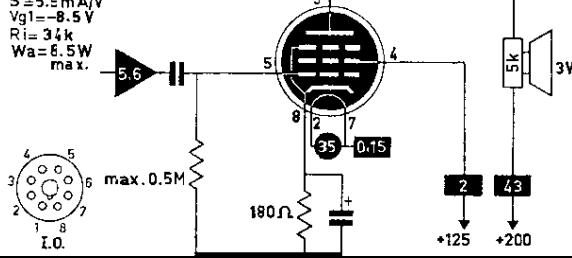
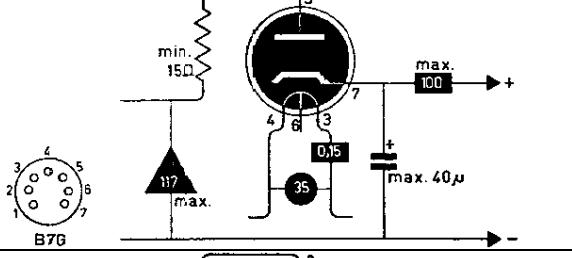
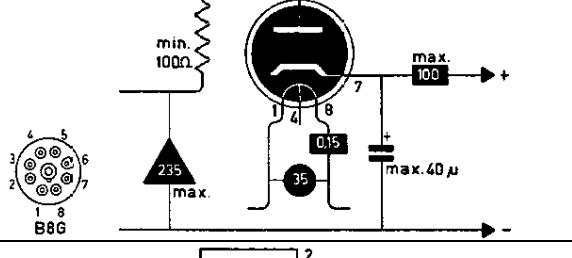
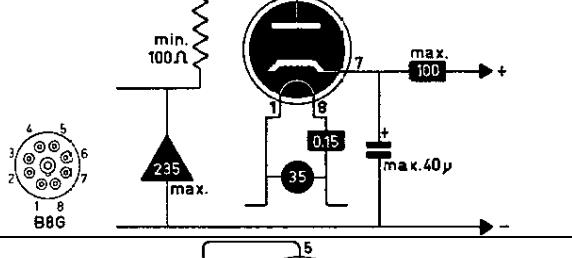
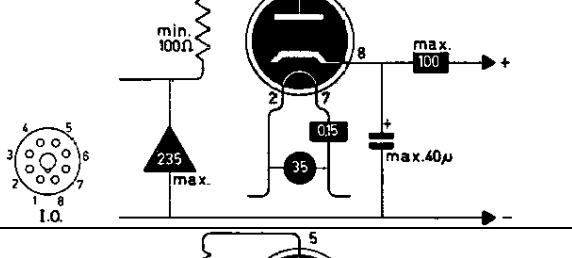
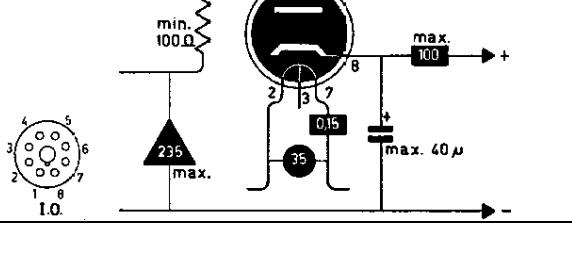
tp



35EH5

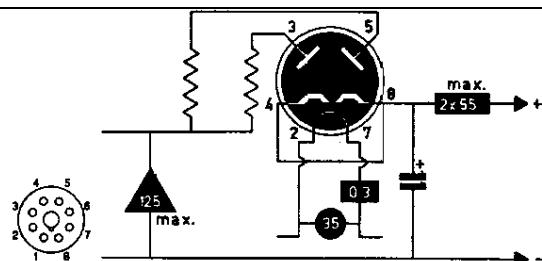
P



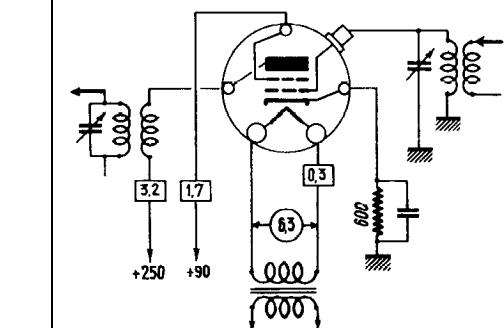
35GL6 P	S=7,5mA/V Vg1=-7,5V Ri=12k Pa=max. 5,5W	
35L6 P	S=5,5mA/V Vg1=-8,5V Ri=34k Wa=6,5W max.	
35W4 P		
35Y4 P		
35Z3 P		
35Z4 P		
35Z5 P		

35Z6

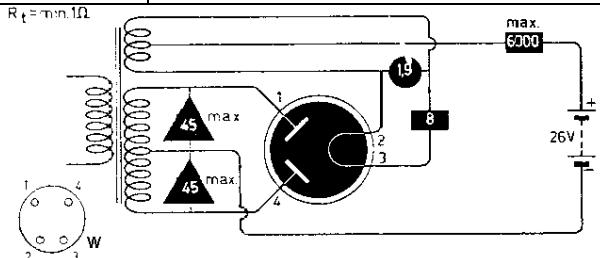
rr

**36**

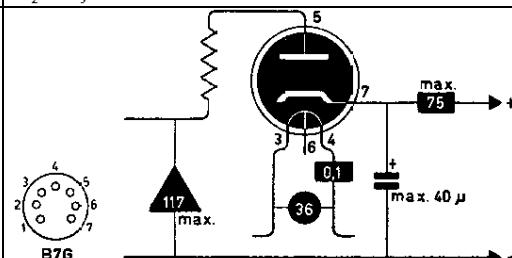
q

36
HF $S = 1$
 $P = 0,55 \text{ M}\Omega$
 $V = -3$ **367**

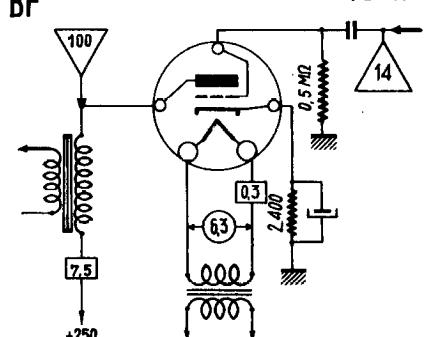
rr°

 $R_t = \text{min. } 1\Omega$ **36AM3**

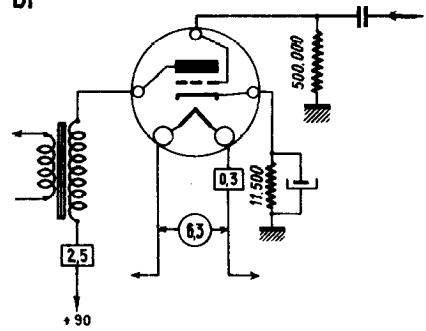
r

**37**

t

37
BF $S = 1,1$
 $P = 8,400$
 $V = -18$ 

37
BF

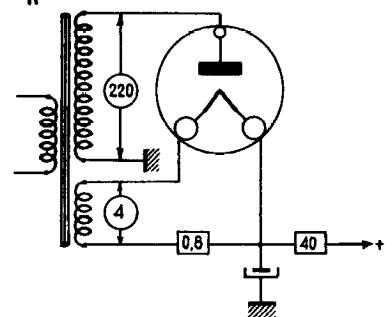


373

r

373

R

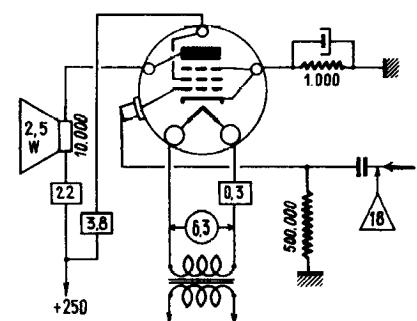


38

P

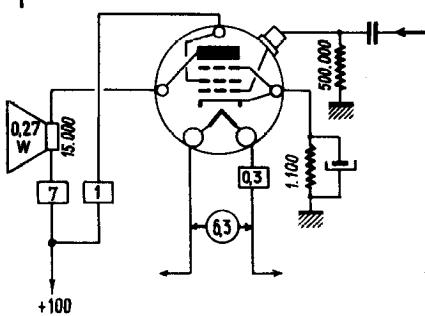
38

P

 $S = 1,2$
 $P = 0,1 \text{ M}\Omega$
 $V = -25$


38

P

 $S = 0,8$
 $P = 140.000$
 $V = -9$


38A3

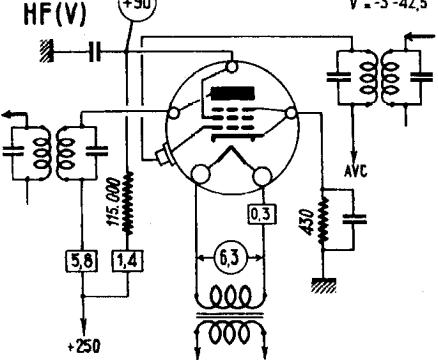
=UY85

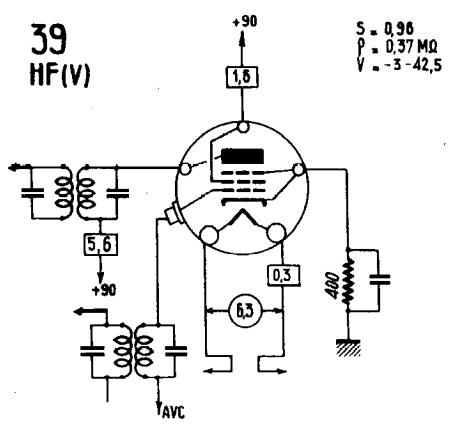
39

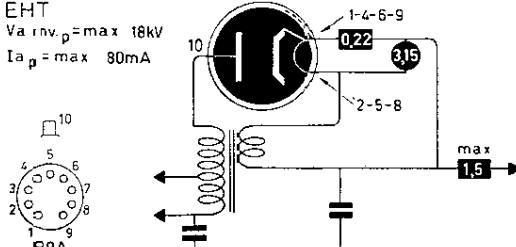
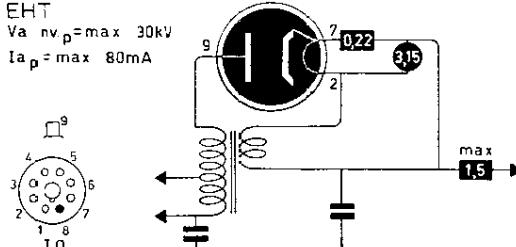
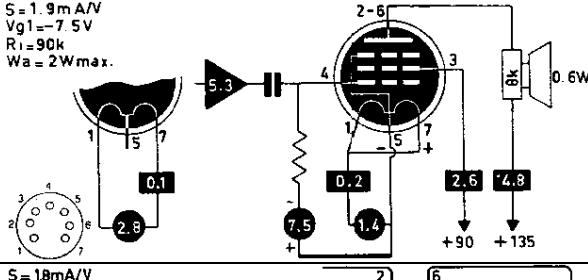
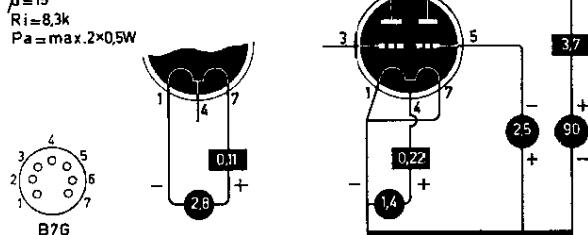
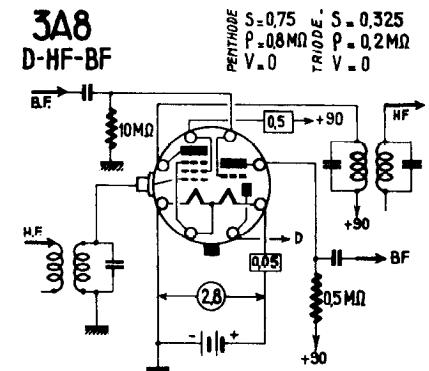
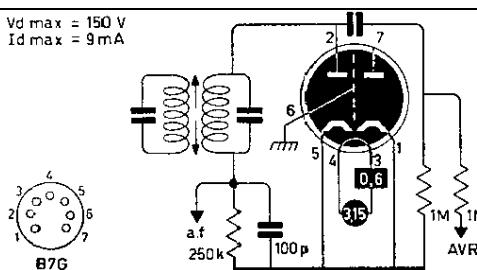
p

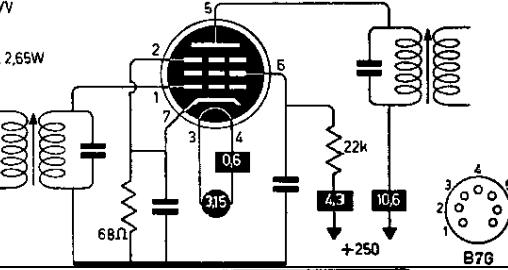
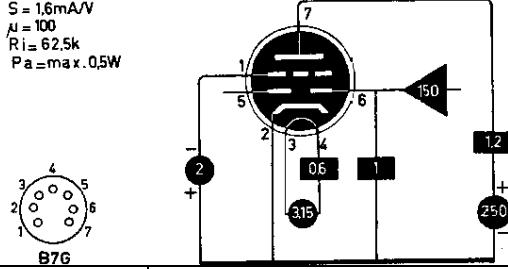
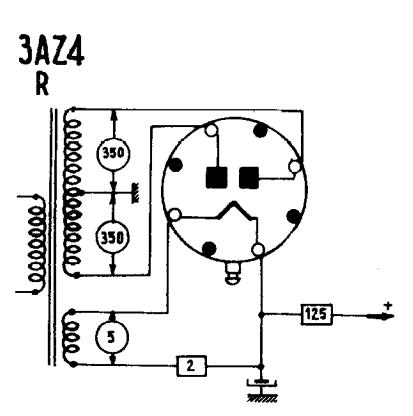
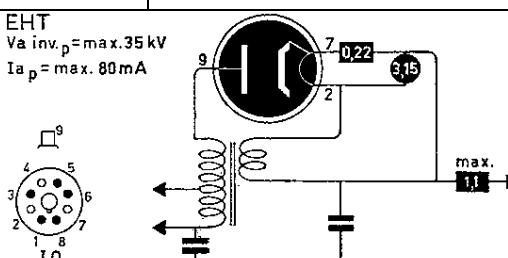
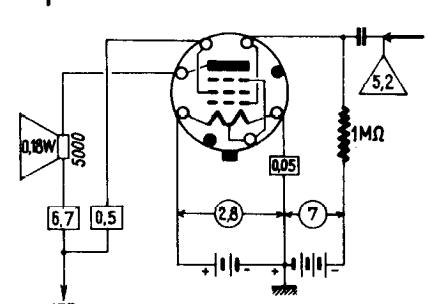
39

HF(V)

 $S = 1$
 $P = 1 \text{ M}\Omega$
 $V = -3 - 42,5$




3A2 R	EHT $V_{av\,inv,\mu} = \text{max } 18\text{kV}$ $I_{ap} = \text{max } 80\text{mA}$ 
3A3 R	EHT $V_{av\,inv,\mu} = \text{max } 30\text{kV}$ $I_{ap} = \text{max } 80\text{mA}$ 
3A4 P	$S = 1.9\text{ mA/V}$ $V_{g1} = 7.5\text{ V}$ $R_i = 90\text{k}$ $W_a = 2\text{W max.}$ 
3A5 tt	$S = 1.8\text{ mA/V}$ $\mu = 15$ $R_i = 8.3\text{k}$ $P_a = \text{max. } 2 \times 0.5\text{W}$ 
3A8 dtp	3A8 D-HF-BF 
3AB4	=PC92
3AL5 dd	$V_d \text{ max.} = 150\text{ V}$ $I_d \text{ max.} = 9\text{ mA}$ 

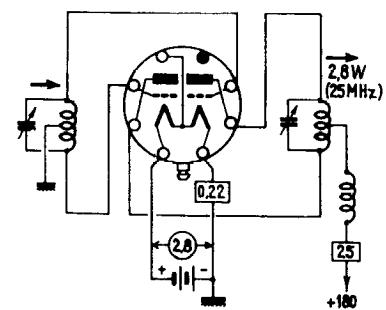
3AU6 p	S = 5,2mA/V $V_{G1} = -1V$ $R_i = 1M\Omega$ $P_a = \text{max. } 2,65W$	
3AV6 ddt	$S = 1,6mA/V$ $\mu = 100$ $R_i = 62.5k\Omega$ $P_a = \text{max. } 0.5W$	
3AZ4 rr		
3B2 R	EHT $V_{a\text{ inv},p} = \text{max. } 35kV$ $I_{a,p} = \text{max. } 80mA$	
3B5 P	$S = 1,5$ $P = 100.000$	

3B7

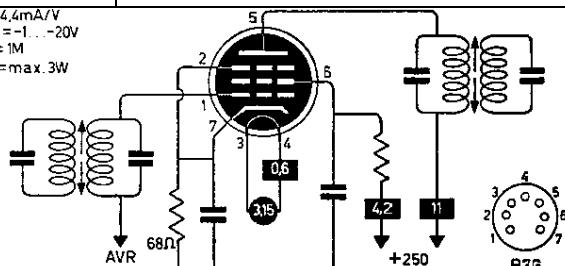
tt

3B7

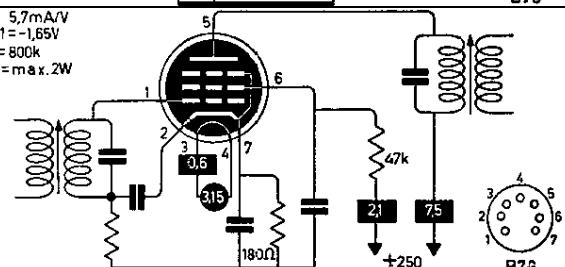
HF(OTC)

 $S = 1,9$
 $P = 11.300$
 $I = 5,2$
**3BA6**

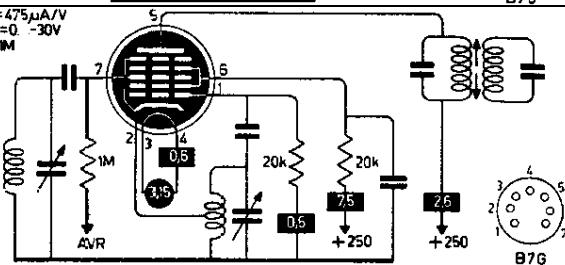
p

 $S = 4,4 \text{ mA/V}$
 $V_{g1} = -1 \dots -20 \text{ V}$
 $R_i = 1 \text{ M}$
 $P_a = \text{max. } 3 \text{ W}$
**3BC5**

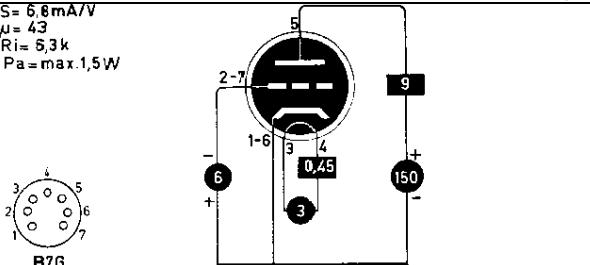
p

 $S = 5,7 \text{ mA/V}$
 $V_{g1} = -1,65 \text{ V}$
 $R_i = 800 \text{ k}$
 $P_a = \text{max. } 2 \text{ W}$
**3BE6**

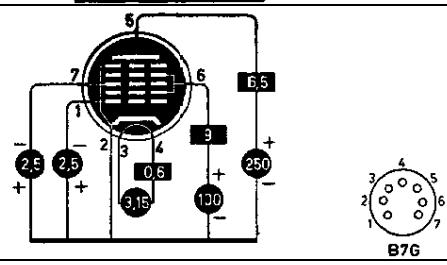
H

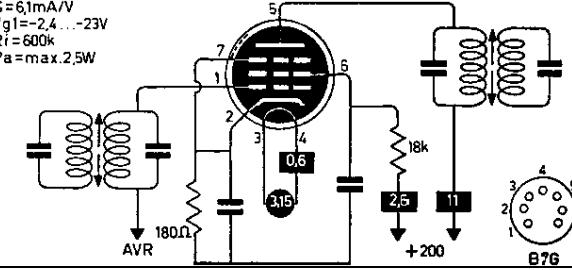
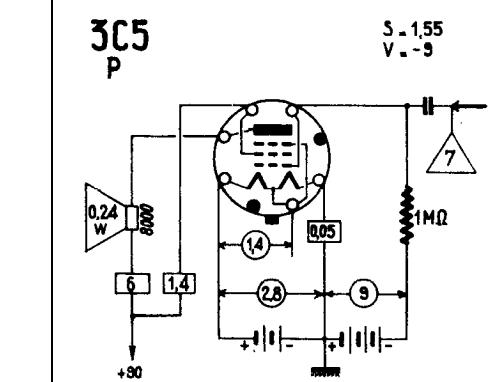
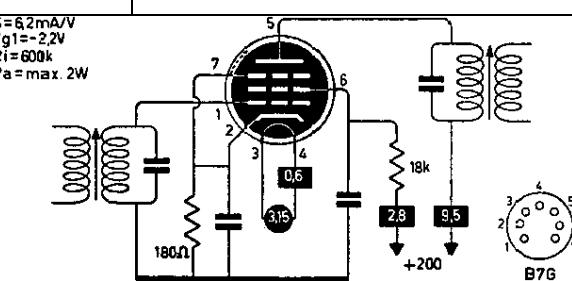
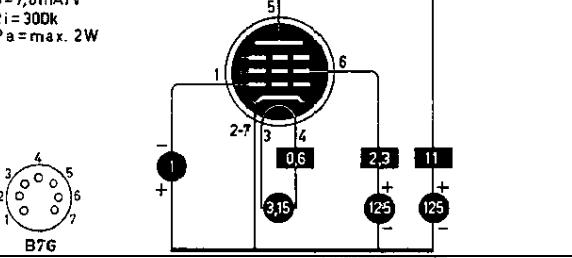
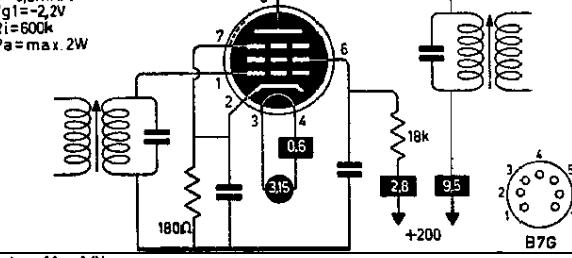
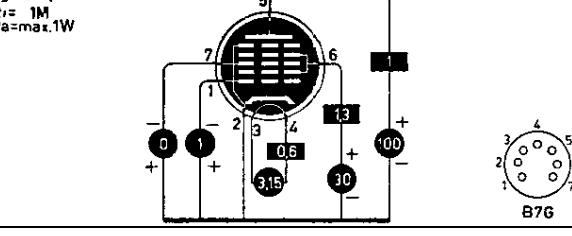
 $S_c = 475 \mu \text{A/V}$
 $V_{g3} = 0 \dots -30 \text{ V}$
 $R_i = 1 \text{ M}$
**3BN4**

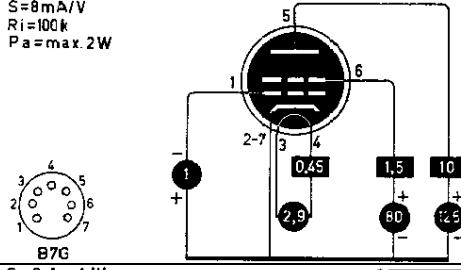
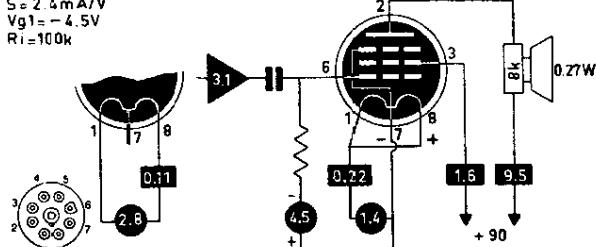
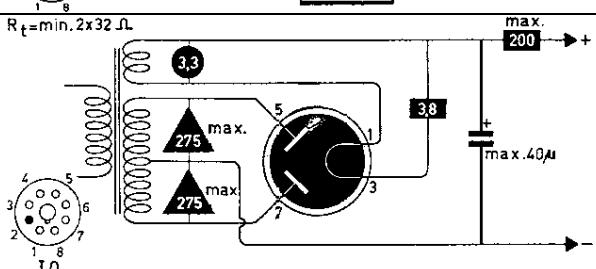
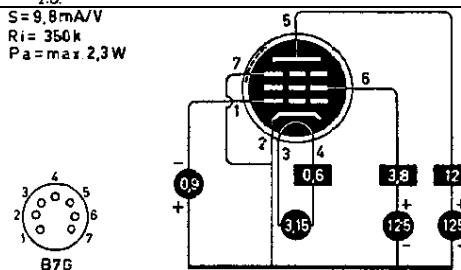
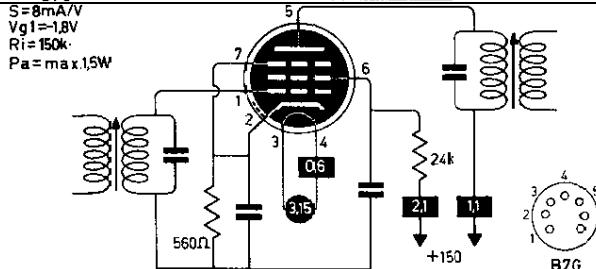
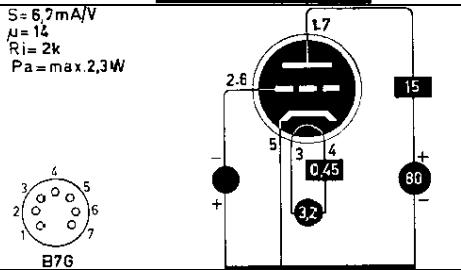
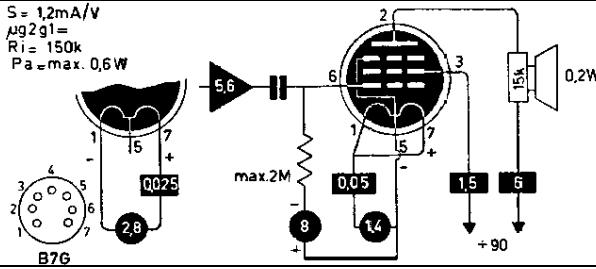
t

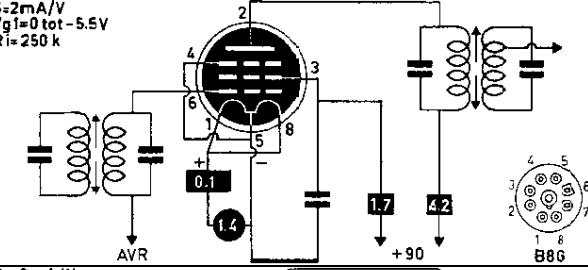
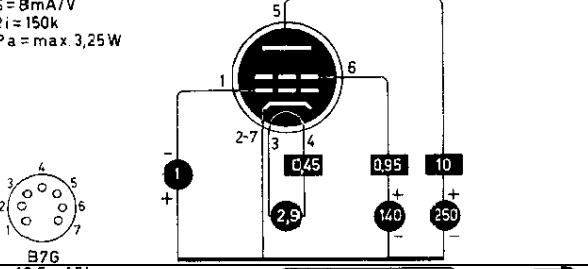
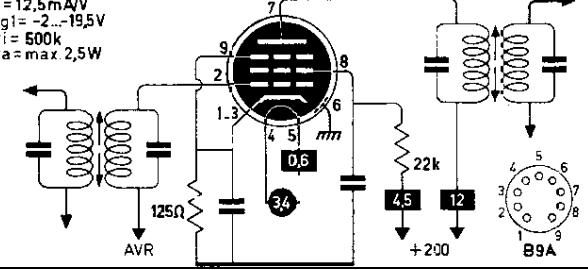
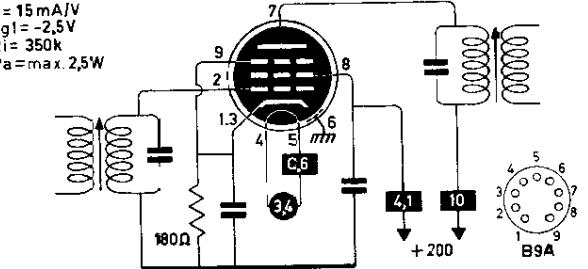
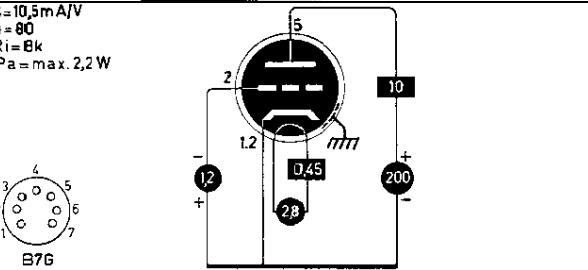
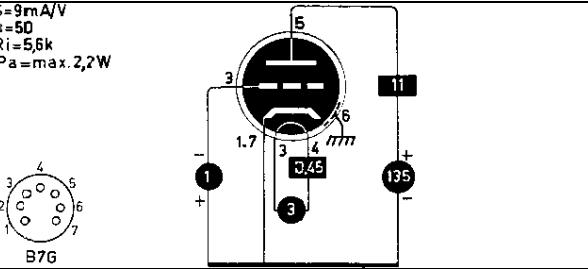
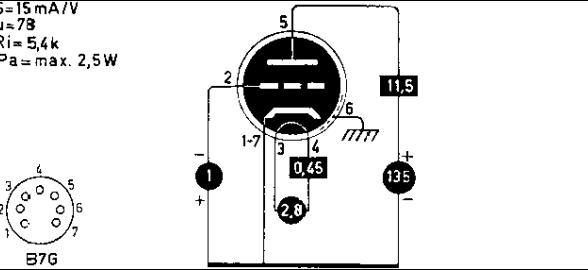
 $S = 6,8 \text{ mA/V}$
 $\mu = 43$
 $R_i = 5,3 \text{ k}$
 $P_a = \text{max. } 1,5 \text{ W}$
**3BY6**

H

 $S_{g1-a} = 1,9 \text{ mA/V}$
 $S_{g3-a} = 0,5 \text{ mA/V}$
 $P_a = \text{max. } 2 \text{ W}$


3BZ6 p	S=6,1mA/V Vg1=-2,4...-23V Ri=600k Pa=max.2,5W	
3C4 =DL96		
3C5 P		3C5 P S = 1,55 V = -9
		
3CB6 p	S=6,2mA/V Vg1=-2,2V Ri=600k Pa=max. 2W	
3CE5 p	S=7,6mA/V Ri=300k Pa=max. 2W	
3CF6 p	S=6,2mA/V Vg1=-2,2V Ri=600k Pa=max. 2W	
3CS6 H	Sg1-a=11 mA/V Ri= 1M Pa=max.1W	

3CY5 q	S=8mA/V R _i =100k P _a =max.2W	
3D6 P	S=2.4mA/V V _{g1} =-4.5V R _i =100k	
3DG4 rr	R _t min. 2x32Ω max. 200Ω	
3DK6 p	S=9.8mA/V R _i =350k P _a =max 2.3W	
3DT6 p	S=8mA/V V _{g1} =-18V R _i =150k P _a =max 1.5W	
3DZ4 t	S=6.7mA/V $\mu = 14$ R _i =2k P _a =max.2.3W	
3E5 P	S=1.2mA/V $\mu g_2 g_1 = 1$ R _i =150k P _a =max. 0.6W	

3E6 p	S=2mA/V Vg1=0 tot -5.5V Ri=250 k	
3EA5 q	S=8mA/V Ri=150k Pa=max. 3,25W	
3EH7 p	S=12,5mA/V Vg1=-2...-19,5V Ri=500k Pa=max 2,5W	
3EJ7 p	S=15 mA/V Vg1=-2,5V Ri=350k Pa=max. 2,5W	
3ER5 t	S=10,5mA/V $\mu=80$ Ri=8k Pa=max. 2,2W	
3FH5 t	S=9mA/V $\mu=50$ Ri=5,6k Pa=max. 2,2W	
3GK5 t	S=15 mA/V $\mu=78$ Ri=5,4k Pa=max. 2,5W	

3HA5 t	<p>S=14,5 mA/V $\mu=72$ $R_i=5k$ $P_a=\text{max. } 2,6W$</p> <p>B7G</p>
3HM5 t	<p>S=14,5 mA/V $\mu=72$ $R_i=5k$ $P_a=\text{max. } 2,6W$</p> <p>B7G</p>
3JC6 p	<p>S=15 mA/V $R_i=180k$ $P_a=\text{max. } 2,5W$</p> <p>B9A</p> <p>S=15 mA/V $R_i=180k$ $P_a=\text{max. } 2,5W$</p> <p>B9A</p>
3JD6 p	<p>S=14 mA/V $R_i=180k$ $P_a=\text{max. } 2,5W$</p> <p>B9A</p> <p>S=14,5 mA/V $R_i=160k$ $P_a=\text{max. } 2,5W$</p> <p>B9A</p>

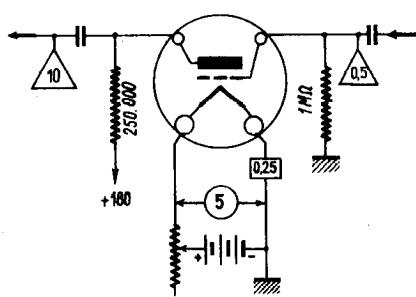
3LE4 P	3LE4 P <p>$S = 1,6$ $P = 0,1\text{ M}\Omega$ $V = -9$</p>
3LF4 P	$S = 2.2\text{ m A/V}$ $V_{g1} = -4.5\text{ V}$ $R_i = 90\text{k}$
3Q4 P	$S = 2.15\text{ m A/V}$ $V_{g1} = -4.5\text{ V}$ $R_i = 100\text{k}$
3Q5 P	$S = 2.2\text{ m A/V}$ $V_{g1} = -4.5\text{ V}$ $R_i = 90\text{k}$
3Q5GT	=DL33
3S4 P	$S = 1.57\text{ m A/V}$ $V_{g1} = -7\text{ V}$ $R_i = 100\text{k}$ $W_a = 0.7\text{ W max.}$
3V4 P	$S = 2.1\text{ m A/V}$ $V_{g1} = -4.5\text{ V}$ $R_i = 110\text{k}$ $W_a = 1.2\text{ W max.}$

40

t

40

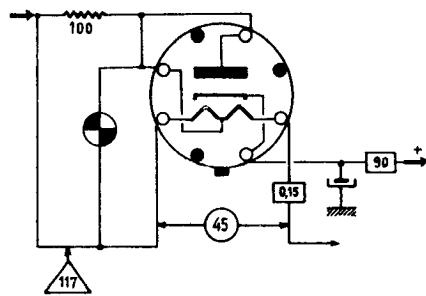
BF

 $S = 0,2$
 $P = 0,15 \text{ MW}$
 $V = -3$
**40Z5**

r

40Z5

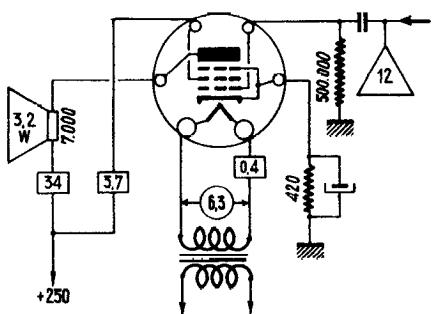
R

**41**

P

41 - 6K6

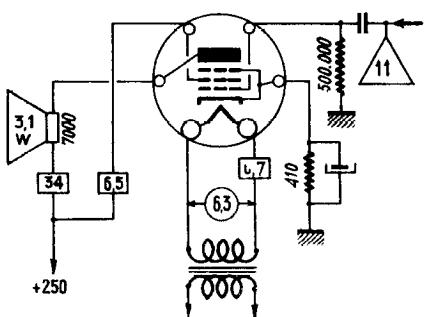
P

 $S = 2,3$
 $P = 65,000$
 $V = -16,5$
**42**

P

42 - 6F6

P

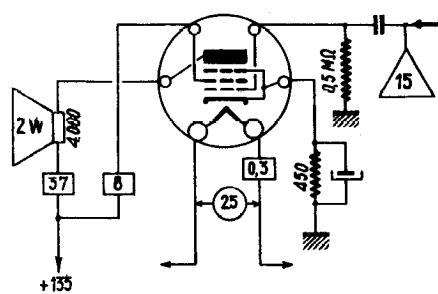
 $S = 2,5$
 $P = 80,000$
 $V = -16,5$


43

P

43 - 25A6

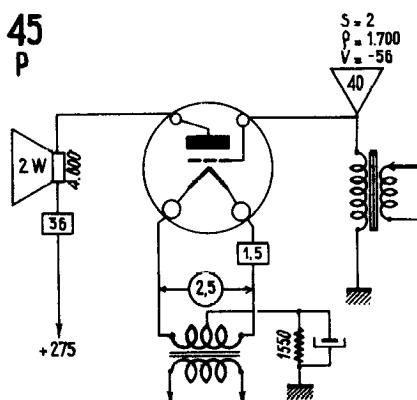
P

 $S = 2,4$
 $P = 35.000$
 $V = -20$
**45**

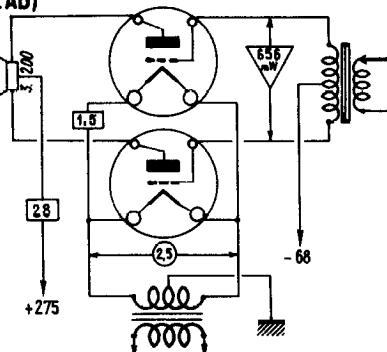
T

45

P

 $S = 2$
 $P = 1.700$
 $V = -56$
**45**

P (cl. AB)

**45A5**

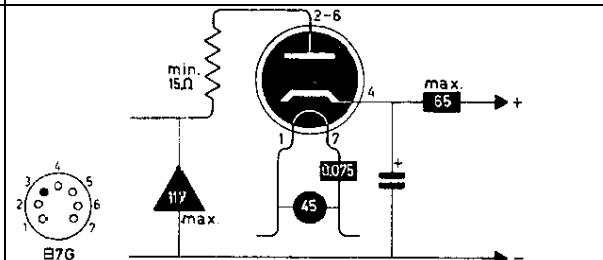
=UL41

45B5

=UL84

45Z3

r



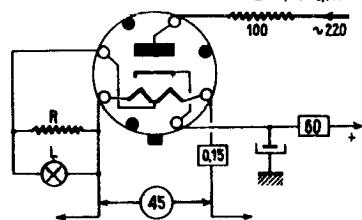
45Z5

r

45Z5 - 35Z5

R

$R_{\infty} \approx I = 60$
 $R = 300 \quad I = 70$
 $R = 150 \quad I = 80$
 $R = 100 \quad I = 90$
 $L = 5.5 \text{ V} \cdot 0.1 \text{ A}$



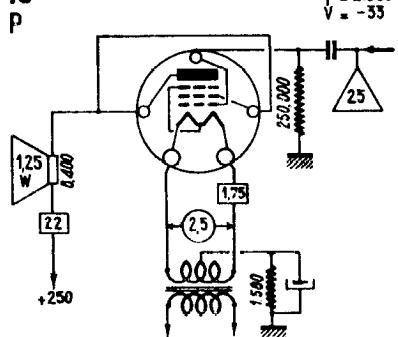
46

Q

46

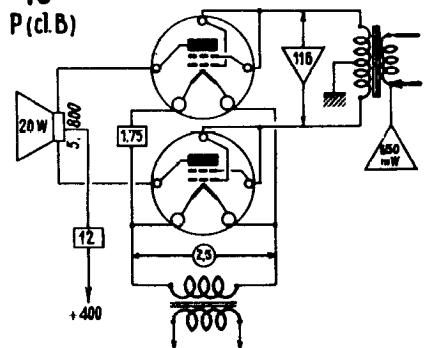
P

$S = 2.3$
 $P = 2.380$
 $V = -33$



46

P (cl. B)

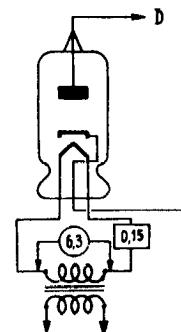


4623

d

4623

D (T)



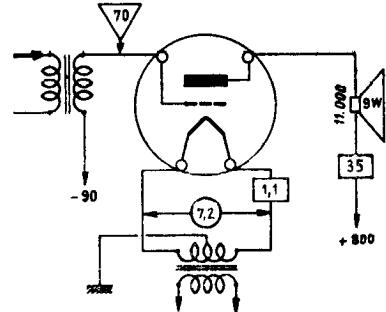
4624

T

4624

P (Cl.A)

S = 2,3
P = 3.000
V = -90

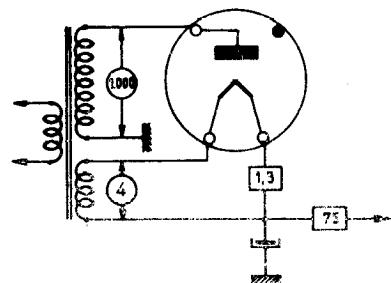


4646

R

4646

R

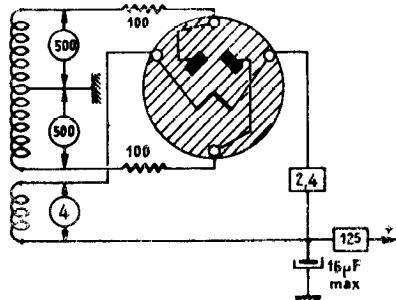


4652

rr°

4652 - AX1

R



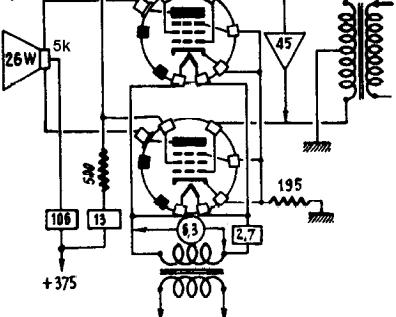
4654

P

4654

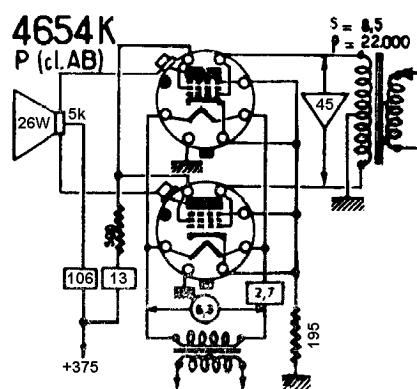
P (Cl.AB)

S = 8,5
P = 22.000



4654K

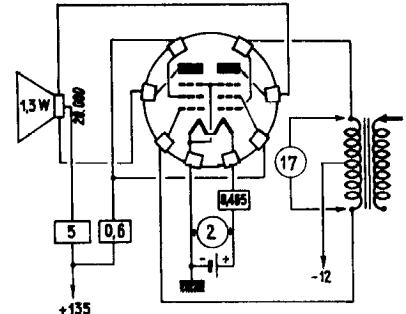
P



4670

PP

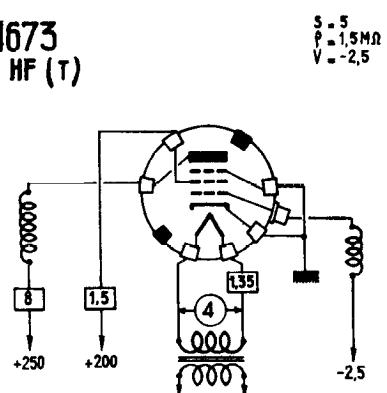
4670
P (cl.AB)



4673

p

4673
HF (T)

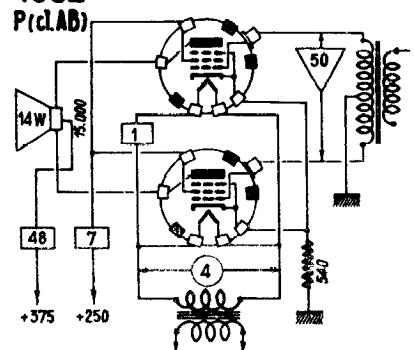


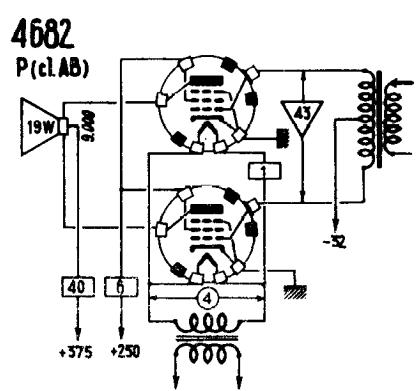
4682

P

4682

P (cl.AB)



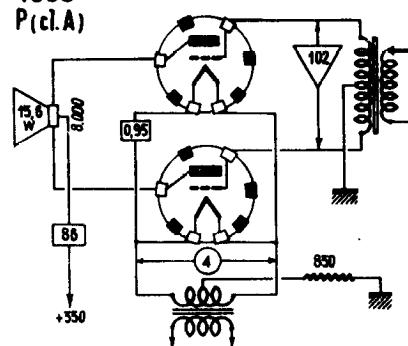


4683

T

4683

P (cl. A)

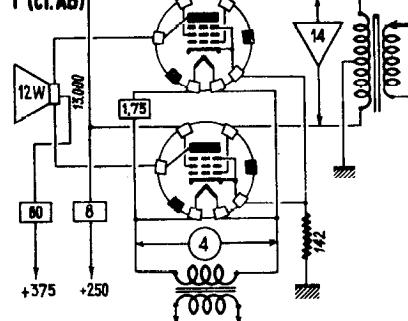


4684

T

4684

P (cl. AB)

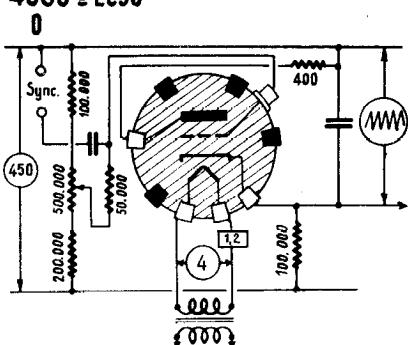


4686

t°

4686 = EC50

F_{max} = 50 kHz

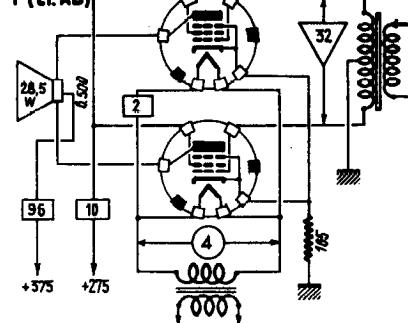


4688

P

4688

P (cl. AB)

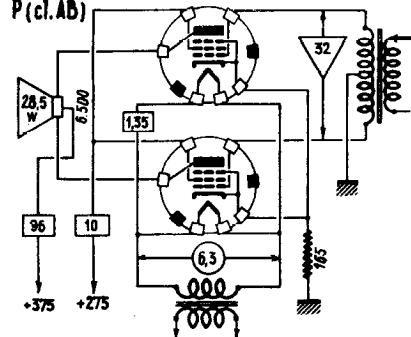


4689

P

4689 = 4688

P (cl. AB)



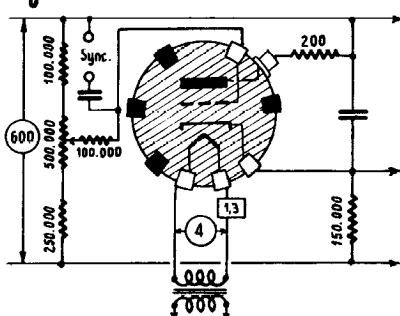
4690

t°

4690

0

F_{max} = 150 kHz

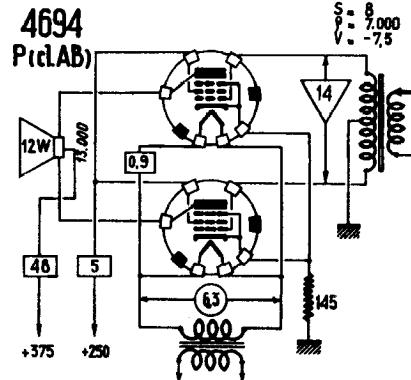


4694

P

4694

P (cl. AB)



4696

SET

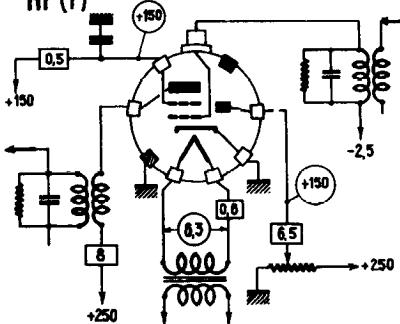
4696 = EE1

HF(T)

S = 8

P = 7.000

V = -7.5

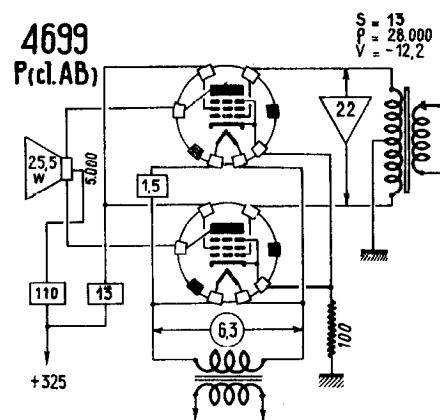


4699

P

4699

P(cL.AB)

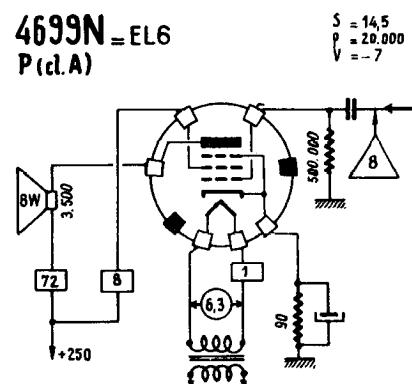


4699N

P

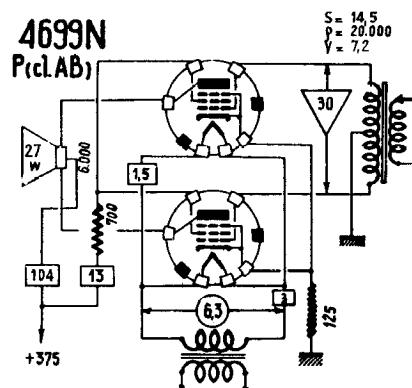
4699N = EL6

P(cL.A)



4699N

P(cL.AB)

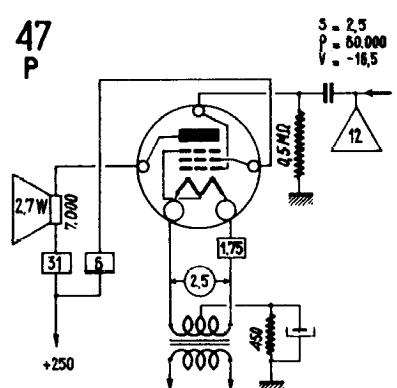


47

P

47

P

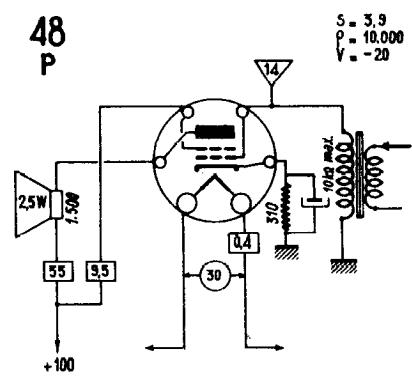


48

Q

48

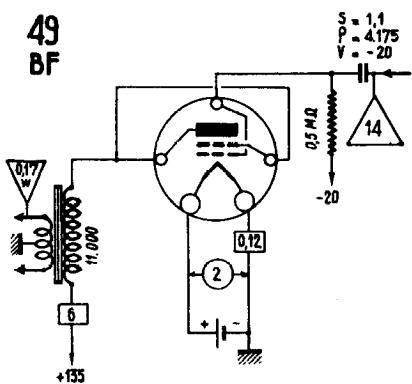
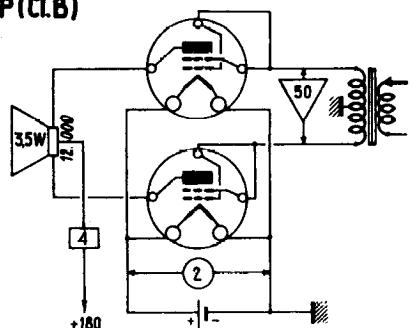
P

**49**

Q

49

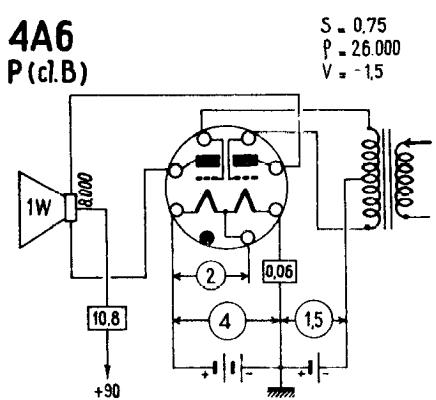
BF

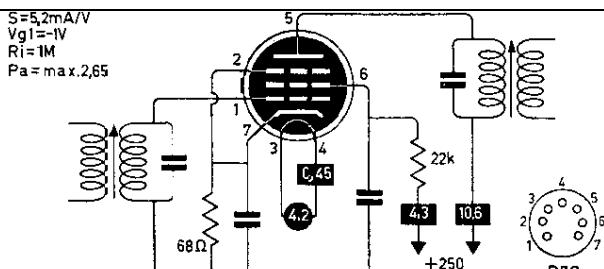
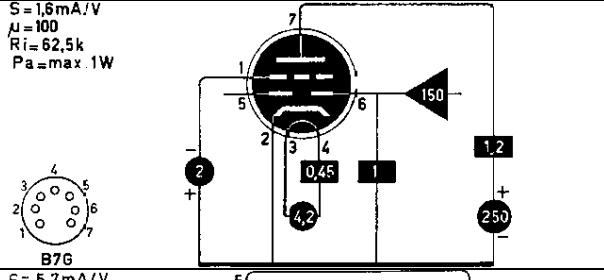
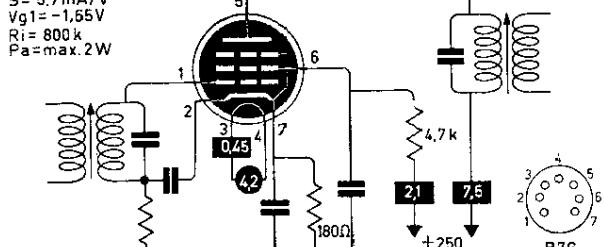
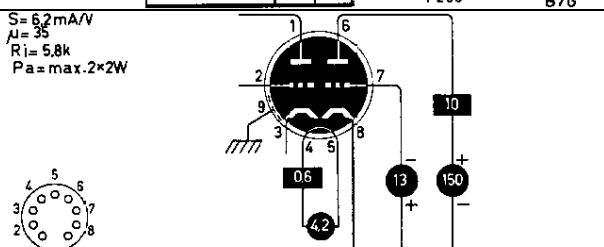
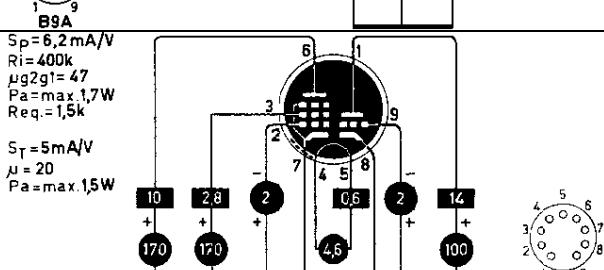
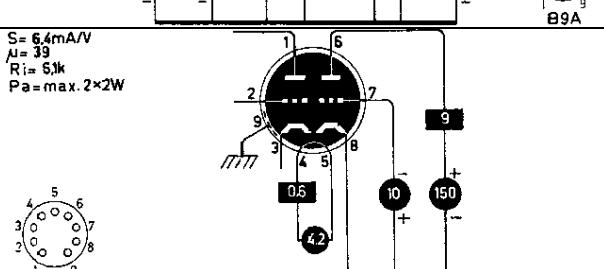
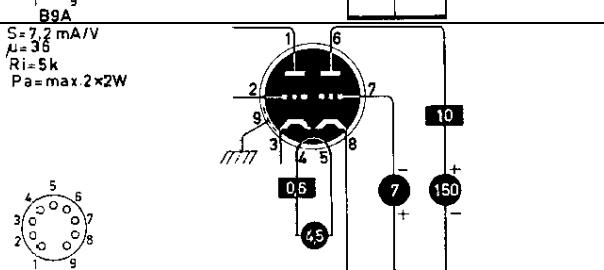
**49**
P(c.l.B)**4A6**

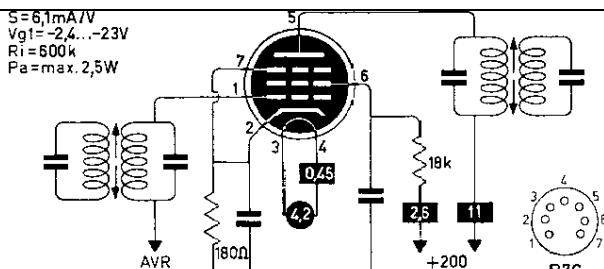
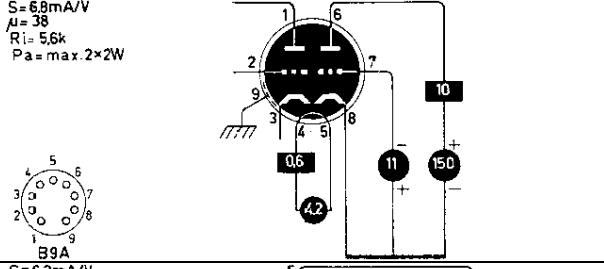
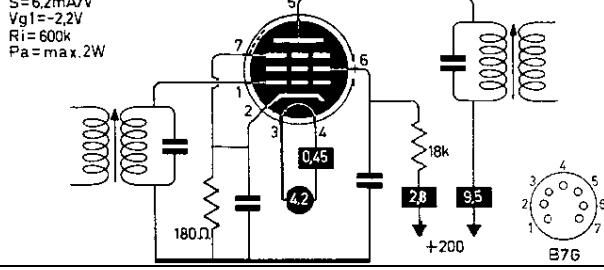
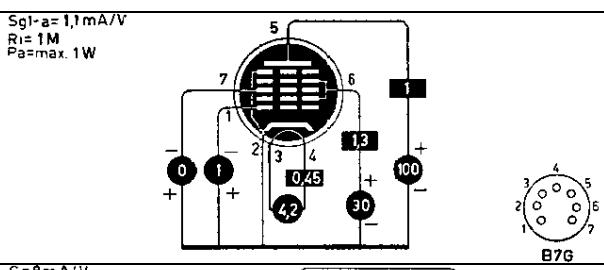
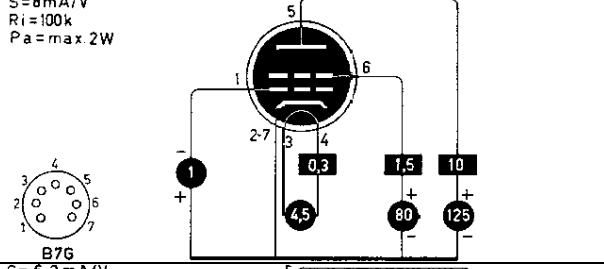
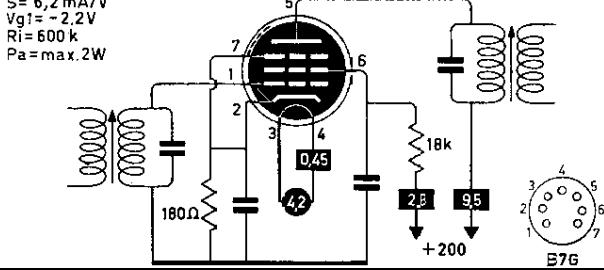
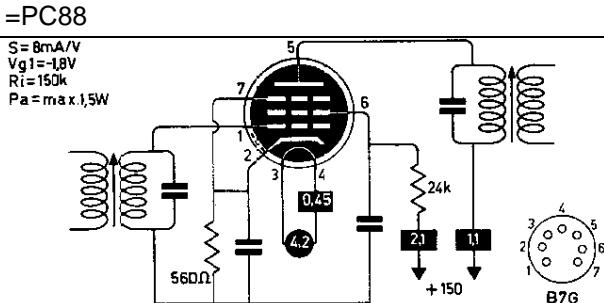
TT

4A6

P(c.l.B)



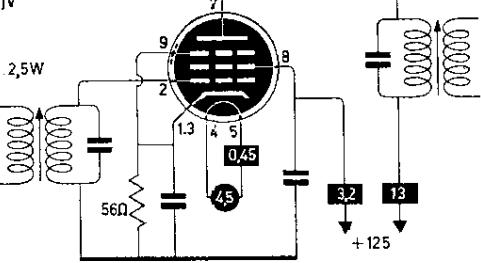
4AU6 p	S=5,2mA/V $V_{g1}=-1V$ $R_i=1M$ $P_a=\text{max.}2,65$	
4AV6 ddt	S=1,6mA/V $\mu=100$ $R_i=62,5k$ $P_a=\text{max.}1W$	
4BC5 p	S= 5,7mA/V $V_{g1}=-1,65V$ $R_i= 800k$ $P_a=\text{max.}2W$	
4BC8 tt	S= 6,2mA/V $\mu=35$ $R_i= 5,8k$ $P_a=\text{max.}2\times 2W$	
4BL8 tp	$S_p=6,2\text{ mA/V}$ $R_i=400k$ $\mu g_2 g_1=47$ $P_a=\text{max.}1,7W$ $R_{eq}=1,5k$ $S_T=5\text{ mA/V}$ $\mu=20$ $P_a=\text{max.}1,5W$	
4BQ7A tt	S= 6,4mA/V $\mu=39$ $R_i= 5,1k$ $P_a=\text{max.}2\times 2W$	
4BS8 tt	S= 7,2 mA/V $\mu=35$ $R_i= 5k$ $P_a=\text{max.}2\times 2W$	

4BZ6 p	S=6,1mA/V $V_{g1}=-2,4\ldots-23V$ $R_i=600k$ $P_a=\text{max. } 2,5W$	
4BZ7 tt	S=6,8mA/V $\mu=38$ $R_i=5,6k$ $P_a=\text{max. } 2\times 2W$	
4CB6 p	S=6,2mA/V $V_{g1}=-2,2V$ $R_i=600k$ $P_a=\text{max. } 2W$	
4CM4	=PC86	
4CS6 H	$S_{g1-a}=1,1\text{ mA/V}$ $R_i=1M$ $P_a=\text{max. } 1W$	
4CY5 q	S=8mA/V $R_i=100k$ $P_a=\text{max. } 2W$	
4DE6 p	S=6,2 mA/V $V_{g1}= -2,2V$ $R_i=600k$ $P_a=\text{max. } 2W$	
4DL4	=PC88	
4DT6 p	S=8mA/V $V_{g1}= -1,8V$ $R_i=150k$ $P_a=\text{max. } 1,5W$	

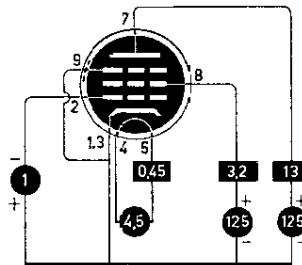
4EH7 p	S=12,5 mA/V $V_{G1}=-2\text{--}-19,5\text{V}$ $R_i=500\text{k}$ $P_a=\text{max. }2,5\text{W}$	
4ER5	=PC95	
4ES8 tt	S=12,5 mA/V $R_i=2,5\text{k}$ $P_a=\text{max. }2\text{--}1,8\text{W}$	
4EW6 p	S=14 mA/V $R_i=200\text{k}$ $P_a=\text{max. }3,1\text{W}$	
4GZ5 P	S= 8,4 mA/V $V_{G1}=-5\text{V}$ $R_i=150\text{k}$ $P_a=\text{max. }4,8\text{W}$	
4HM6 p	S=15mA/V $R_i=156\text{k}$ $P_a=\text{max. }2,5\text{W}$	
4HT6 p	S=14 mA/V $R_i=143\text{k}$ $P_a=\text{max. }2,5\text{W}$	

4JC6

p

 $S = 15 \text{ mA/V}$ $R_i = 180 \text{ k}\Omega$ $P_a = \text{max } 2,5 \text{ W}$  $S = 15 \text{ mA/V}$ $R_i = 180 \text{ k}\Omega$ $P_a = \text{max } 2,5 \text{ W}$ 

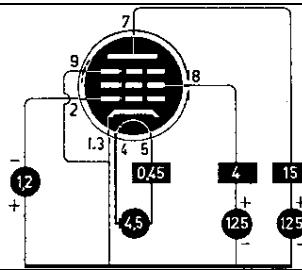
B9A

**4JD6**

p

 $S = 14 \text{ mA/V}$ $R_i = 160 \text{ k}\Omega$ $P_a = \text{max } 2,5 \text{ W}$ 

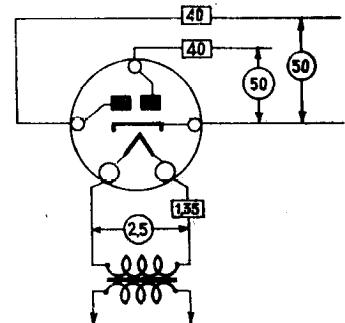
B9A

**4S**

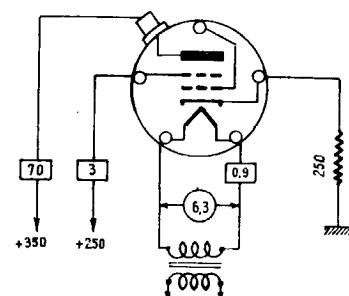
dd

2S/45

D

 $V_{max} = 50$ $I_{max} = 40$ **4Y25**

Q

4Y25
P(T) $S = 6$ 

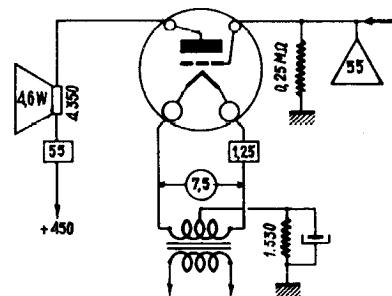
50

T

50

P

$S = 2,1$
 $\rho = 1.800$
 $V = -64$

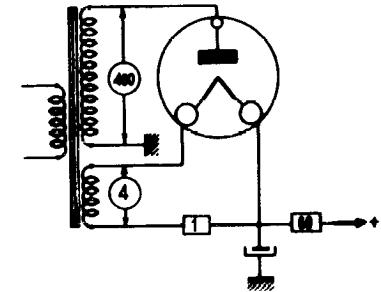


505

r

505

R

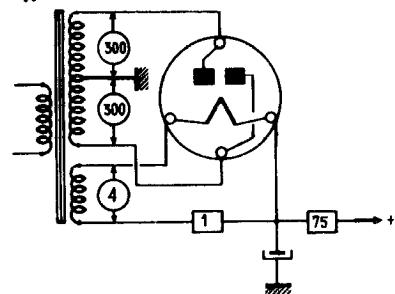


506

rr

506

R

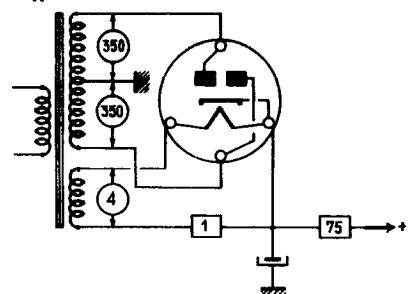


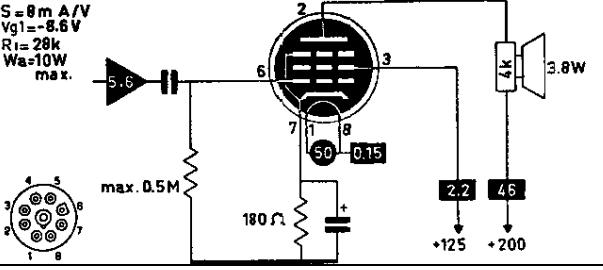
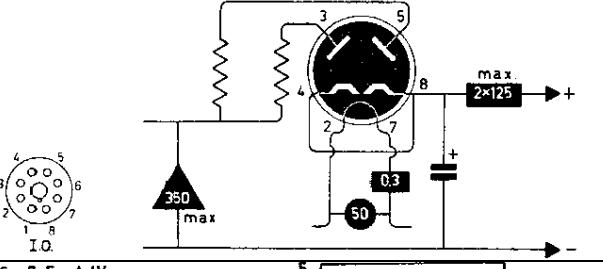
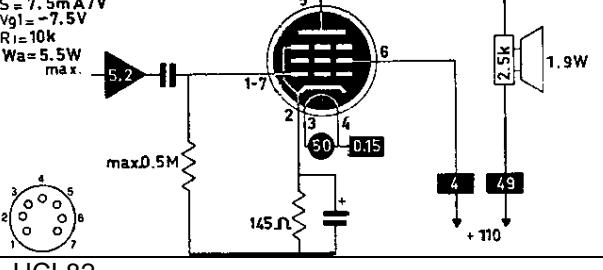
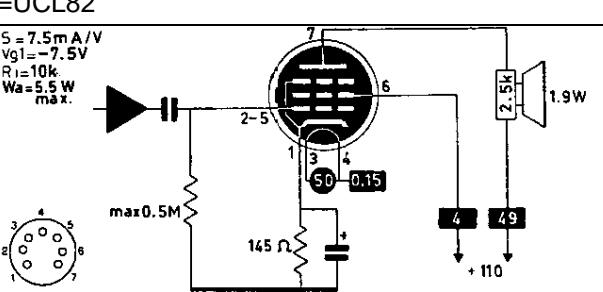
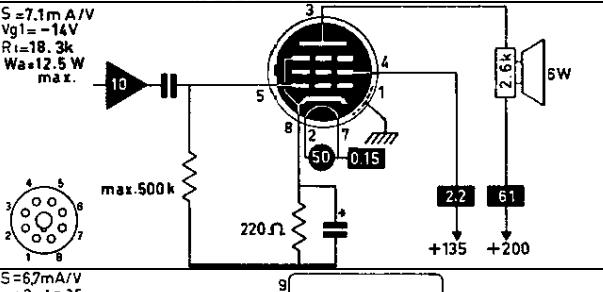
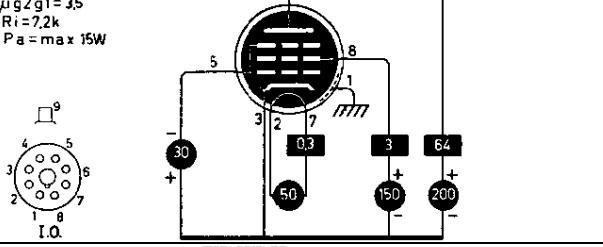
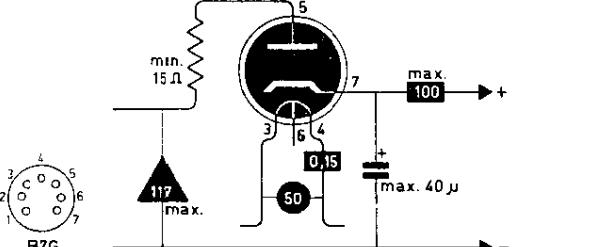
506K

rr

506K

R

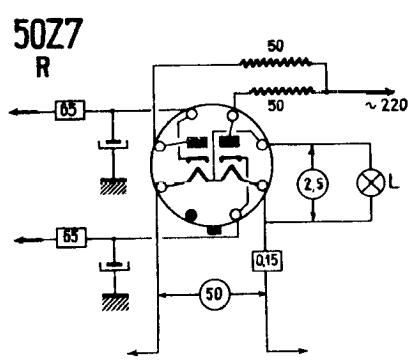


50A5 P	S = 8 mA/V $V_{g1} = -8.6\text{ V}$ $R_i = 28\text{k}$ $W_a = 10\text{W}$ max.  
50AX6 rr	
50B5 P	S = 7.5 mA/V $V_{g1} = -7.5\text{ V}$ $R_i = 10\text{k}$ $W_a = 5.5\text{W}$ max.  
50BM8	=UCL82
50C5 P	S = 7.5 mA/V $V_{g1} = -7.5\text{ V}$ $R_i = 10\text{k}$ $W_a = 5.5\text{ W}$ max.  
50C6 P	S = 7.1 mA/V $V_{g1} = -14\text{ V}$ $R_i = 18.3\text{k}$ $W_a = 12.5\text{ W}$ max.  
50CD6 P	S = 6.7 mA/V $\mu g_2 g_1 = 35$ $R_i = 7.2\text{k}$ $P_a = \text{max } 15\text{W}$  
50DC4 r	

50EH5 P	S=14,6 mA/V $V_{g1}=-3,5V$ $R_i=1k$ $P_a=\text{max.}5W$	
50FE5 P	S=8,5 mA/V $V_{g1}=+15V$ $R_i=8k$ $P_a=\text{max.}14.5W$	
50FK5 P	S=12,8 mA/V $V_{g1}=-3V$ $R_i=1k$ $P_a=\text{max.}5W$	
50L6 P	S=8 mA/V $V_{g1}=-8.6V$ $R_i=28k$ $P_a=10W$ max.	
50X6 rr		
50Y6 rr		
50Z6 rr		

50Z7

rr

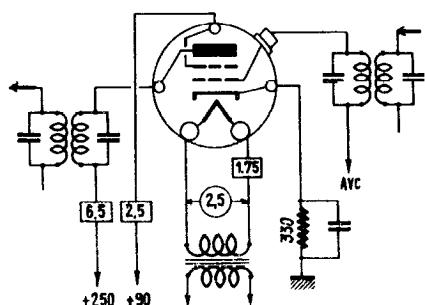


51

q

35/51
HV (V)

$S = 1$
 $P = 0.4 \text{ M}\Omega$
 $V = -3-40$

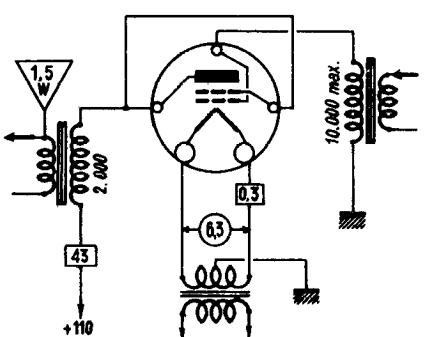


52

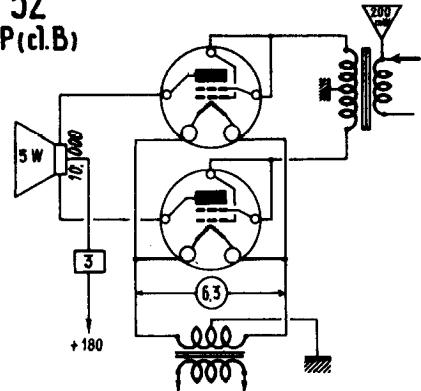
Q

52
P

$S = 5$
 $P = 1.700$
 $V = 0$

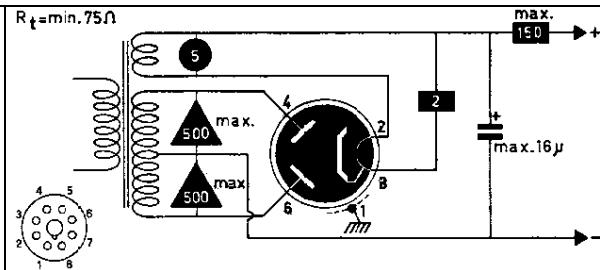


52
P (cl. B)



52KU

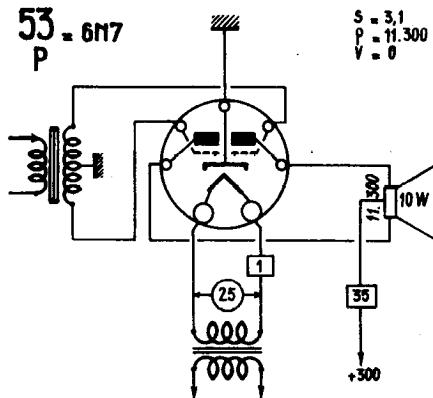
rr

**53**

TT

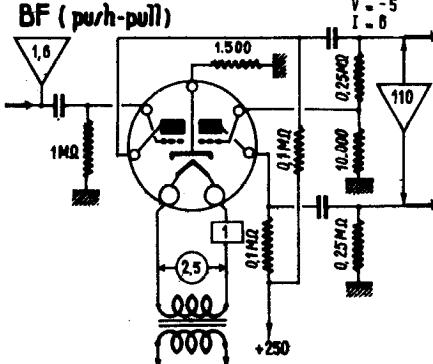
53 = 6N7
P

$S = 3,1$
 $P = 11.300$
 $V = 0$

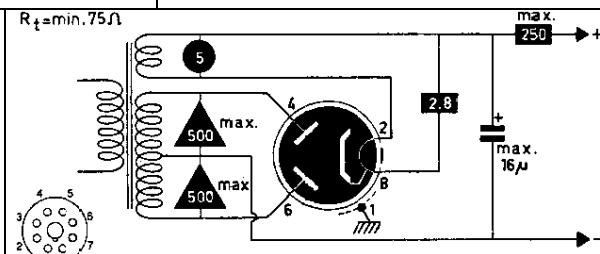


53 = 6N7
BF (pu/h-pull)

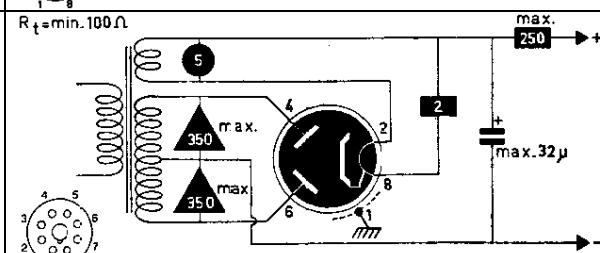
$S = 1,5$
 $P = 11.300$
 $V = -5$
 $I = 6$

**53KU**

rr

**54KU**

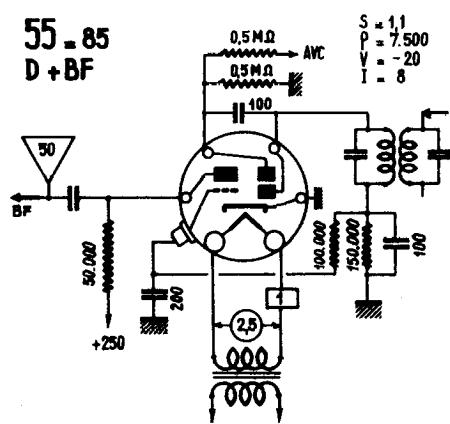
rr



55

ddt

55 = 85
D + BF



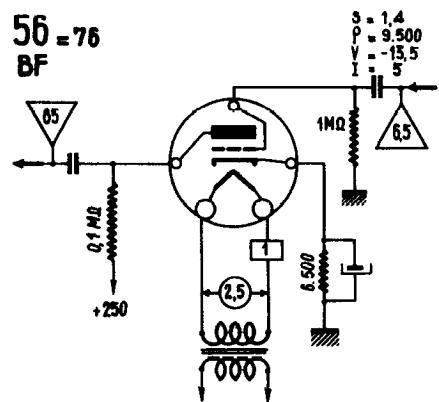
55N3

=UY82

56

t

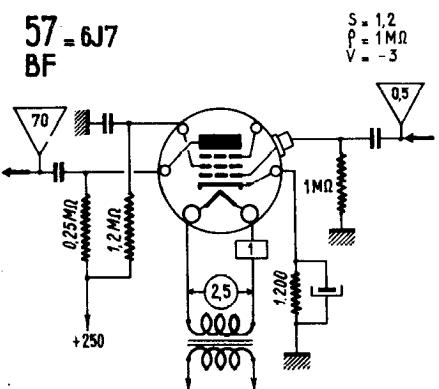
56 = 76
BF



57

p

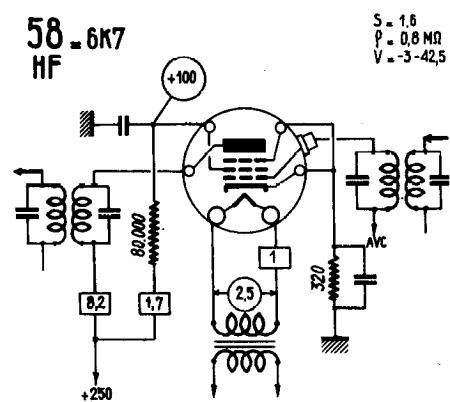
57 = 6J7
BF



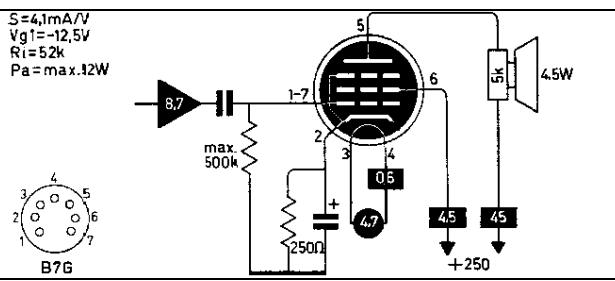
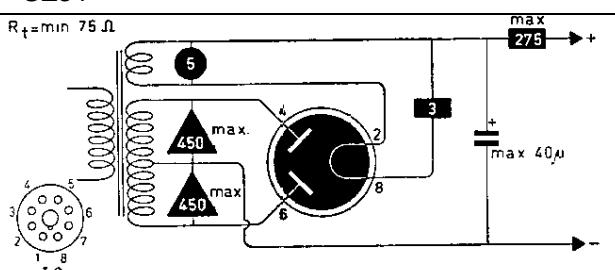
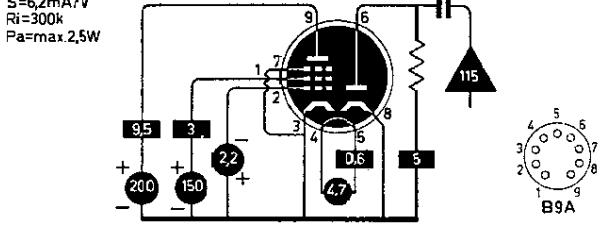
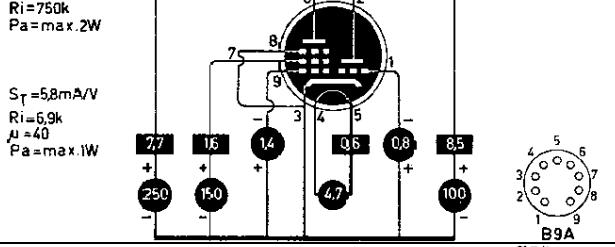
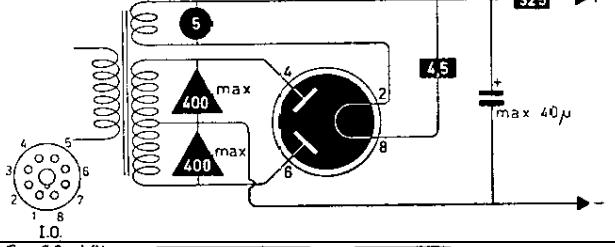
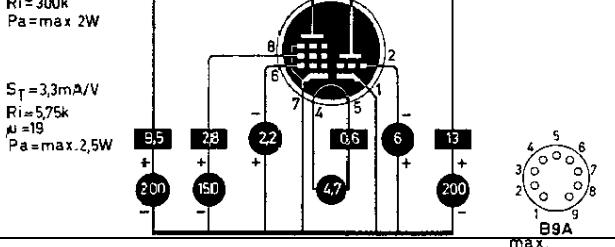
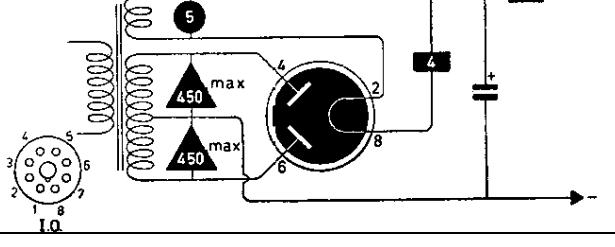
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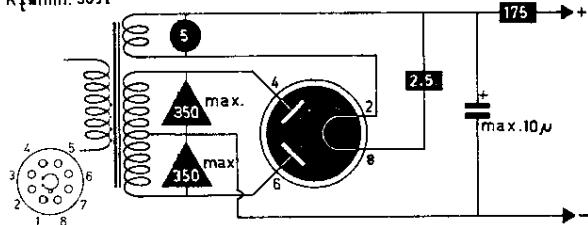
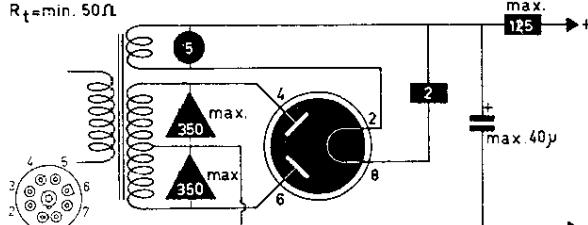
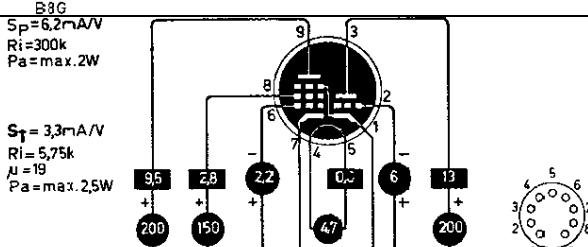
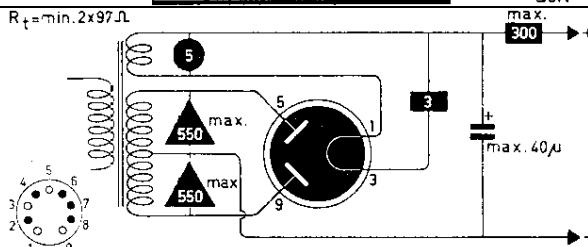
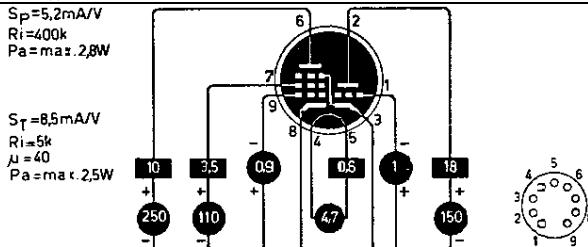
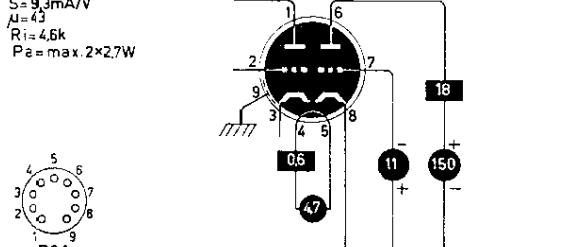
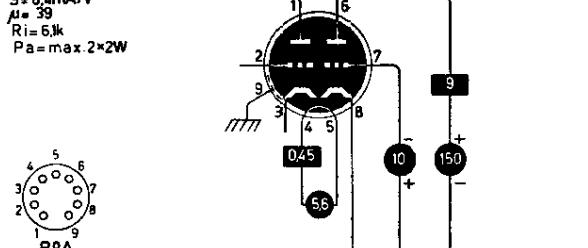
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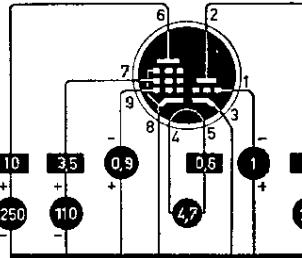
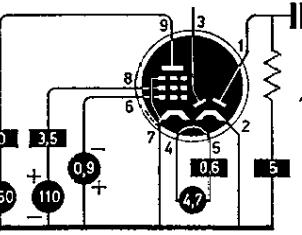
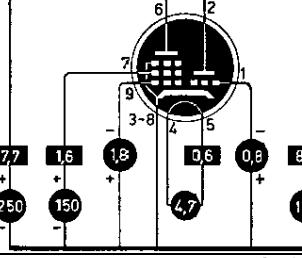
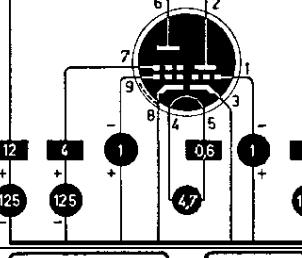
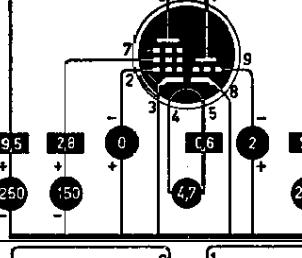
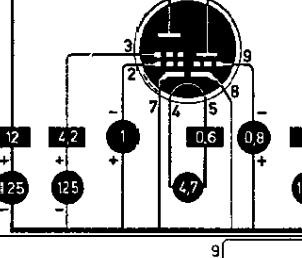
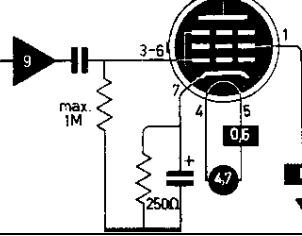
58 = 6K7
HF



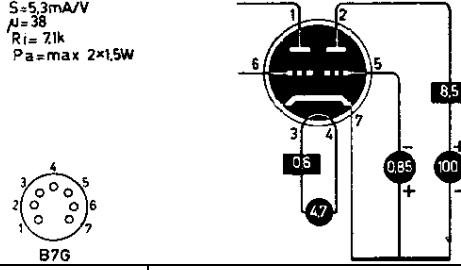
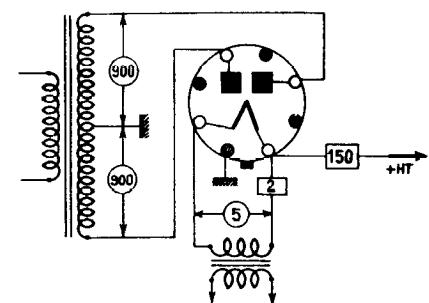
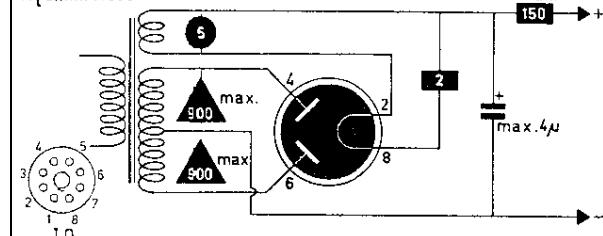
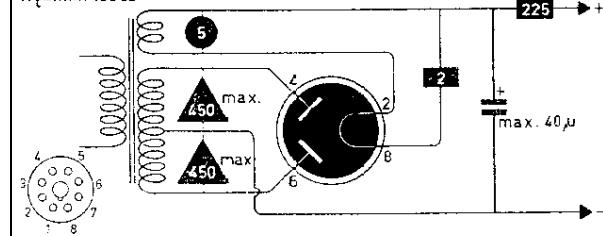
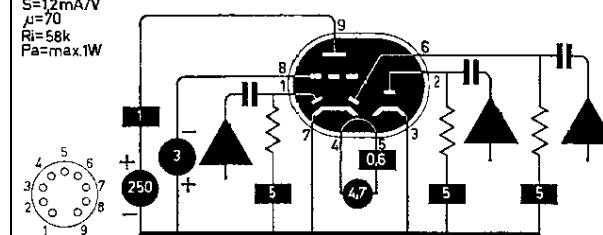
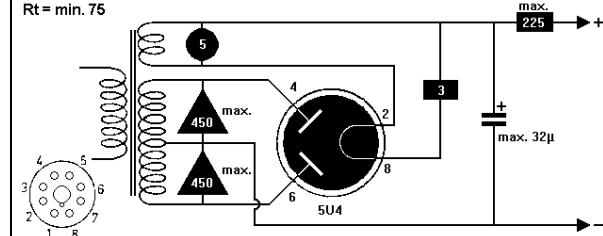
5879 p	<p>S=1mA/V R_i=2M P_a=max.1,25W</p>
5881 P	<p>S=6.1mA/V V_{g1}=-14V R_i=30k P_a=max. 23W</p>
36 P	<p>59 P</p> <p>S = 2,5 P = 40.000 V = - 18</p> <p>59 P</p> <p>S = 2,5 P = 2.300 V = - 2,8</p>
5AM8 dp	<p>S=7mA/V R_i=600k P_a=max. 2,8W</p>
5AN8 tp	<p>S_p=6,2mA/V R_i=300k P_a=max.2W</p> <p>S_T=3,3mA/V R_i=5,75k $\mu=19$ P_a=max.2,5W</p>
5AQ4	=GZ32

5AQ5 P	S=4,1mA/V Vg1=-12,5V Ri=52k Pa=max.12W	
5AR4	=GZ34	
5AS4 rr	Rt=min 75Ω	
5AS8 dp	S=6,2mA/V Ri=300k Pa=max.2,5W	
5AT8 tp	Sp=4,6mA/V Ri=750k Pa=max.2W St=5,8mA/V Ri=6,9k μ=40 Pa=max.1W	
5AU4 rr		
5AV8 tp	Sp=6,2mA/V Ri=300k Pa=max 2W St=3,3mA/V Ri=5,75k μ=19 Pa=max.2,5W	
5AW5 rr		

5AX4 rr	$R_t = \text{min. } 50\Omega$ 
5AZ4 rr	$R_t = \text{min. } 50\Omega$ 
5B8 tp	$S_p = 6.2 \text{ mA/V}$ $R_i = 300k$ $P_a = \text{max. } 2W$ $S_T = 3.3 \text{ mA/V}$ $R_i = 5.7k$ $\mu = 19$ $P_a = \text{max. } 2.5W$ 
5BC3 dd	$R_t = \text{min. } 2 \times 97\Omega$ 
5BE8 tp	$S_p = 5.2 \text{ mA/V}$ $R_i = 400k$ $P_a = \text{max. } 2.8W$ $S_T = 8.5 \text{ mA/V}$ $R_i = 5k$ $\mu = 40$ $P_a = \text{max. } 2.5W$ 
5BK7A tt	$S = 9.3 \text{ mA/V}$ $\mu = 43$ $R_i = 4.6k$ $P_a = \text{max. } 2 \times 2.7W$ 
5BQ7A tt	$S = 6.4 \text{ mA/V}$ $\mu = 39$ $R_i = 6.1k$ $P_a = \text{max. } 2 \times 2W$ 

5BR8 tp	$S_p = 5,2 \text{ mA/V}$ $R_i = 400 \text{ k}$ $P_a = \text{max } 2,8 \text{ W}$	 
5BW8 ddp	$S_p = 5,2 \text{ mA/V}$ $R_i = 250 \text{ k}$ $P_a = \text{max } 3 \text{ W}$	 
5CG8 tp	$S_p = 4,6 \text{ mA/V}$ $R_i = 750 \text{ k}$ $P_a = \text{max } 2 \text{ W}$	 
5CL8A tq	$S_p = 6,5 \text{ mA/V}$ $R_i = 200 \text{ k}$ $P_a = \text{max } 3 \text{ W}$	 
5CM8 tp	$S_p = 6,2 \text{ mA/V}$ $R_i = 600 \text{ k}$ $P_a = \text{max } 2 \text{ W}$	 
5CQ8 tq	$S_{Te} = 5,8 \text{ mA/V}$ $R_i = 140 \text{ k}$ $P_a = \text{max } 2,8 \text{ W}$	 
5CZ5 P	$S_p = 4,8 \text{ mA/V}$ $V_g1 = -14 \text{ V}$ $R_i = 73 \text{ k}$ $P_a = \text{max } 12 \text{ W}$	 

5DH8 tp	<p>$S_p=8,6\text{ mA/V}$ $R_i=150\text{k}$ $P_a=\text{max.}2,2\text{W}$</p> <p>$S_T=4,4\text{ mA/V}$ $R_i=12\text{k}$ $\mu=53$ $P_a=\text{max.}2\text{W}$</p>
5DJ4 rr	<p>$R_t=\text{min.}2\times 67\Omega$</p>
5EA8 tp	<p>$S_p=6,4\text{ mA/V}$ $R_i=80\text{k}$ $P_a=\text{max.}3,1\text{W}$</p> <p>$S_T=8,5\text{ mA/V}$ $R_i=5\text{k}$ $\mu=40$ $P_a=\text{max.}3\text{W}$</p>
5EU8 tp	<p>$S_p=6,4\text{ mA/V}$ $R_i=80\text{k}$ $P_a=\text{max.}3,1\text{W}$</p> <p>$S_T=8,5\text{ mA/V}$ $R_i=5\text{k}$ $\mu=40$ $P_a=\text{max.}3\text{W}$</p>
5EW6 p	<p>$S=14\text{ mA/V}$ $R_i=200\text{k}$ $P_a=\text{max.}3,1\text{W}$</p>
5FV8 tp	<p>$S_p=6,5\text{ mA/V}$ $R_i=200\text{k}$ $P_a=\text{max.}2,3\text{W}$</p> <p>$S_T=8\text{ mA/V}$ $R_i=5\text{k}$ $\mu=40$ $P_a=\text{max.}2\text{W}$</p>
5GH8 tp	<p>$S_p=7,5\text{ mA/V}$ $R_i=200\text{k}$ $P_a=\text{max.}2,5\text{W}$</p> <p>$S_T=8,5\text{ mA/V}$ $R_i=5,4\text{k}$ $\mu=46$ $P_a=\text{max.}2,5\text{W}$</p>

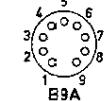
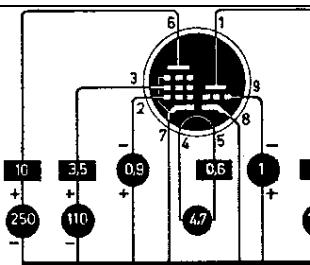
5J6 tt	<p>S=5,3mA/V $\mu=38$ $R_i=71k$ $P_a=\text{max } 2 \times 1,5W$</p> 
5R4 rr	<p>5R4 R</p> 
5R4GY rr	<p>$R_t=\text{min. } 575\Omega$</p> 
5T4 rr	<p>$R_t=\text{min. } 150\Omega$</p> 
5T8 dddt	<p>S=12mA/V $\mu=70$ $R_i=58k$ $P_a=\text{max. } 1W$</p> 
5U4 rr	<p>$R_t = \text{min. } 75$</p> 

5U8

tp

pentode:
 $S = 5.2 \text{ mA/V}$
 $R_i = 400\text{k}$
 $P_a = \text{max. } 2.8\text{W}$

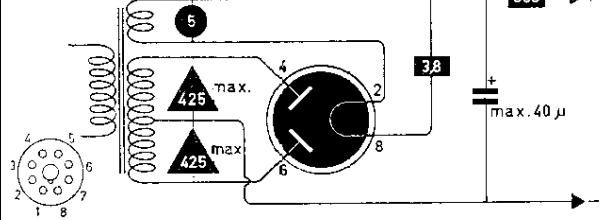
triode:
 $S = 8.5 \text{ mA/V}$
 $R_i = 5\text{k}$
 $\mu = 40$
 $P_a = \text{max. } 2.7\text{W}$

**5V3**

rr

 $R_t = \text{min. } 56 \Omega$

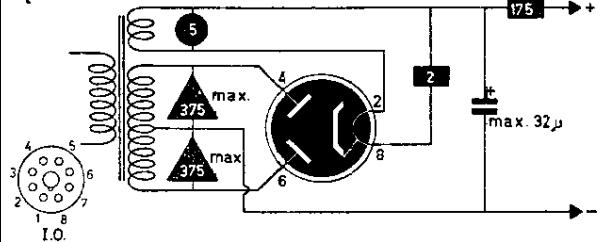
max. 350

**5V4**

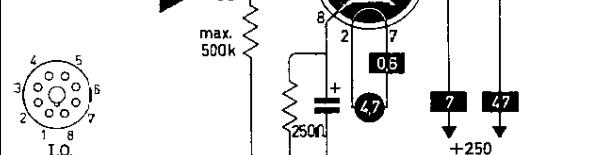
rr

 $R_t = \text{min. } 100 \Omega$

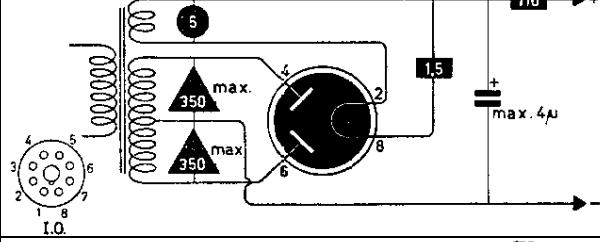
max. 175

**5V6**

P

 $S = 4.1 \text{ mA/V}$ $V_{g1} = -12.5\text{V}$ $R_i = 50\text{k}$ $P_a = \text{max. } 12\text{W}$  $R_t = \text{min. } 50 \Omega$

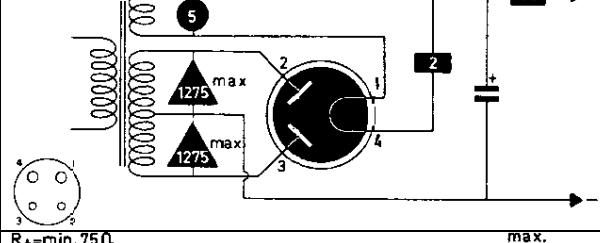
max. 110

**5X3**

rr

 $R_t = \text{min. } 50 \Omega$

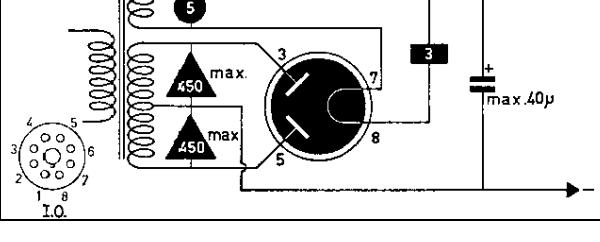
max. 30

**5X4**

rr

 $R_t = \text{min. } 75 \Omega$

max. 225

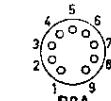
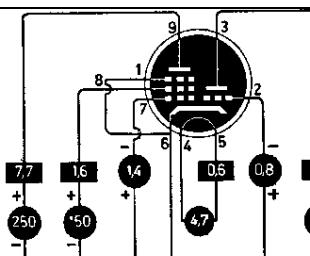


5X8

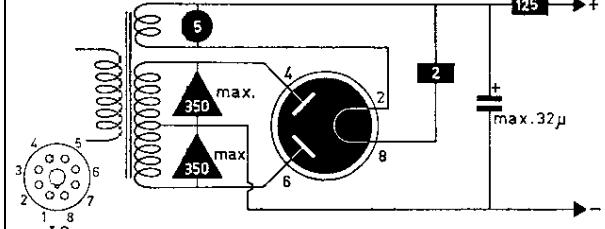
tp

pentode:
 $S = 4.6 \text{ mA/V}$
 $R_i = 750\text{k}$
 $P_a = \text{max. } 2\text{W}$

triode:
 $S = 5.8 \text{ mA/V}$
 $R_i = 6.9\text{k}$
 $\mu = 40$
 $P_a = \text{max. } 1\text{W}$

**5Y3**

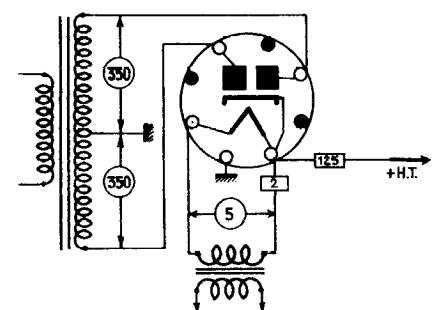
rr

 $R_t = \text{min. } 50\Omega$ **5Y3GB**

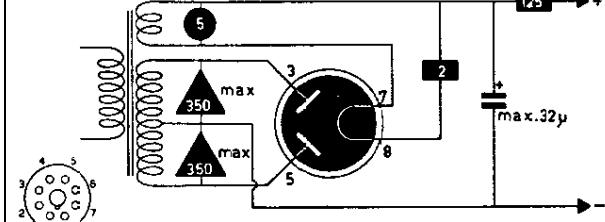
rr

5Y3GB

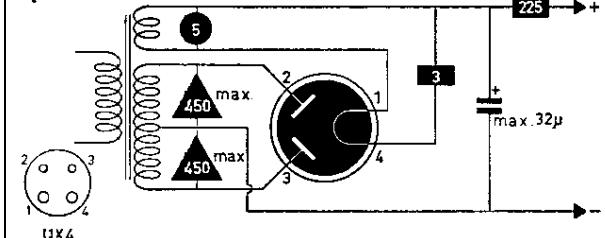
R

**5Y4**

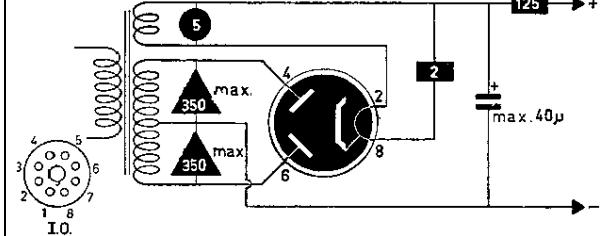
rr

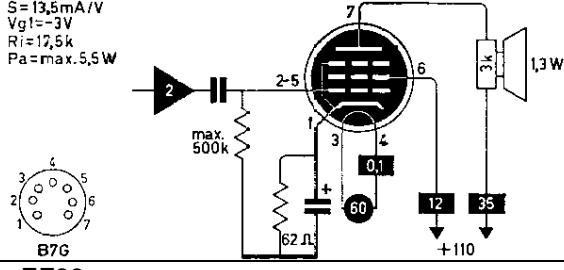
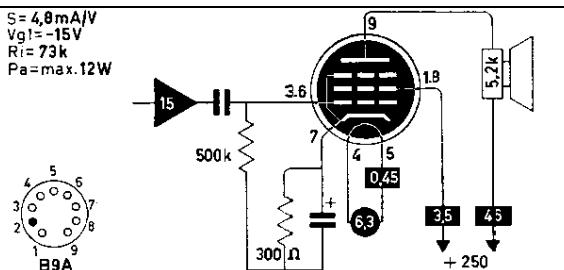
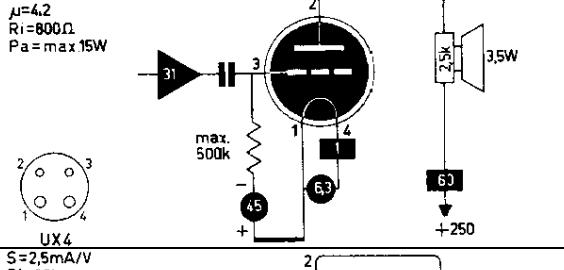
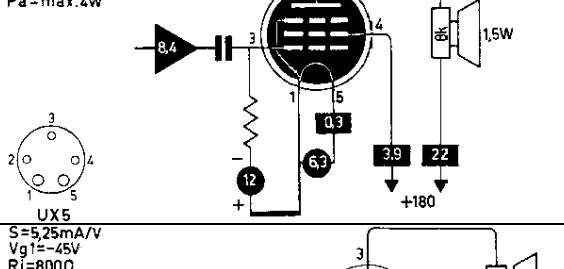
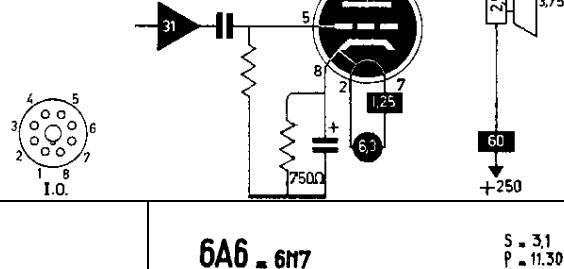
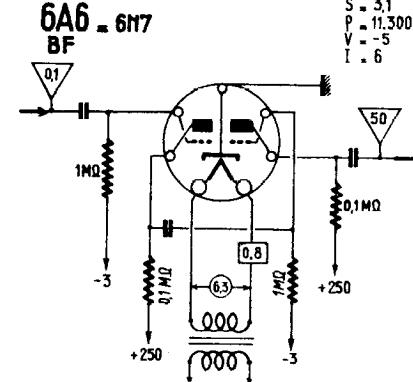
 $R_t = \text{min. } 50\Omega$ **5Z3**

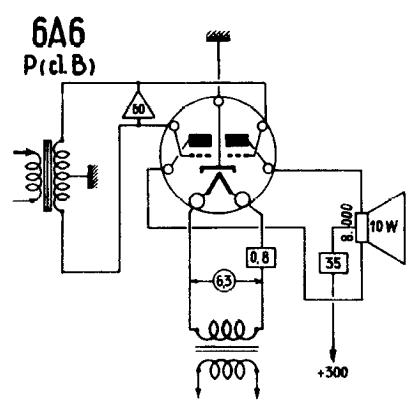
rr

 $R_t = \text{min. } 75\Omega$ **5Z4**

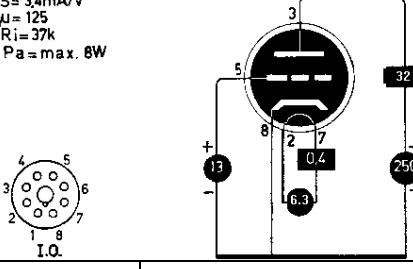
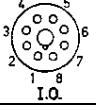
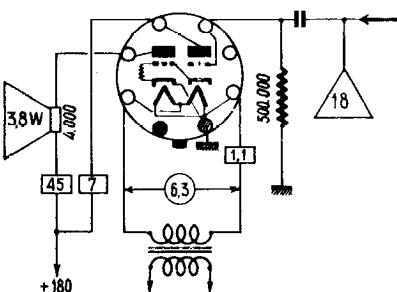
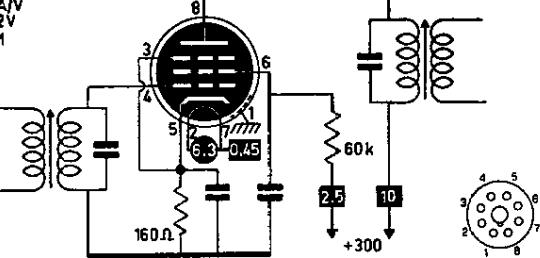
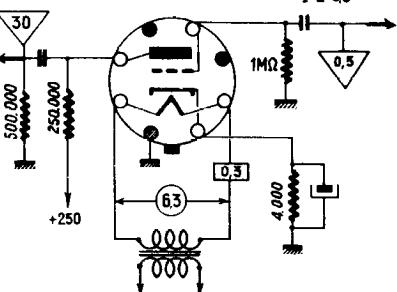
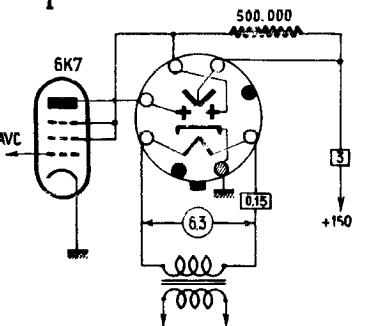
rr

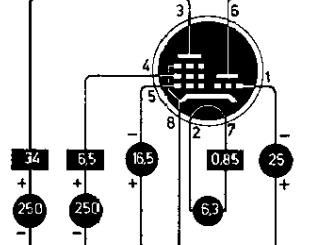
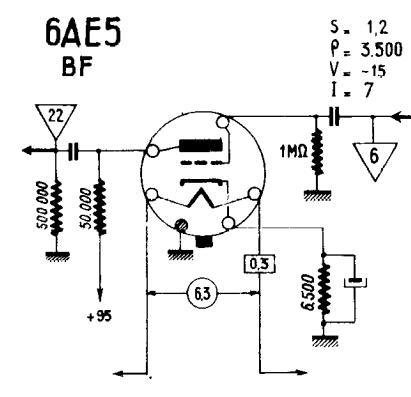
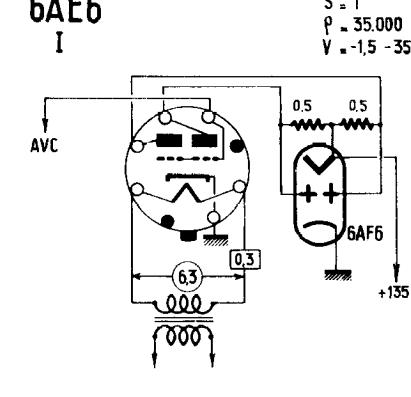
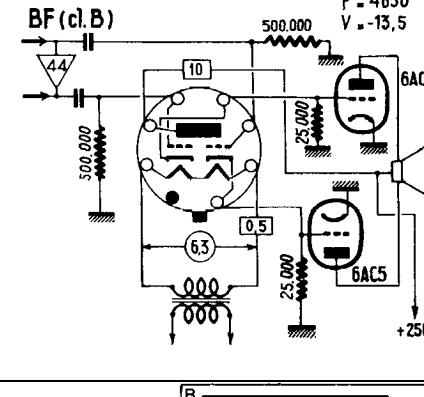
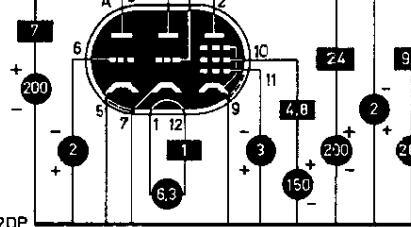
 $R_t = \text{min. } 50\Omega$ 

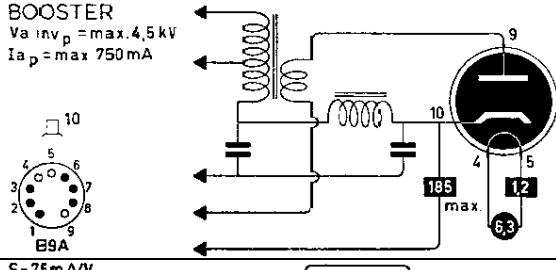
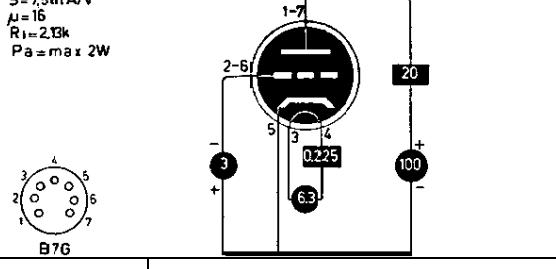
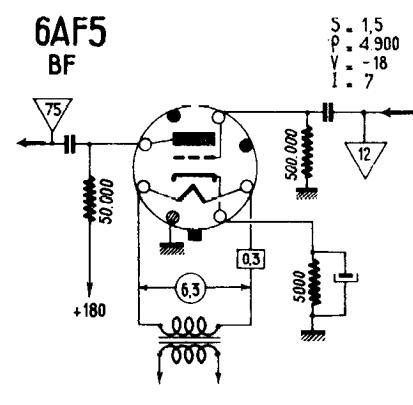
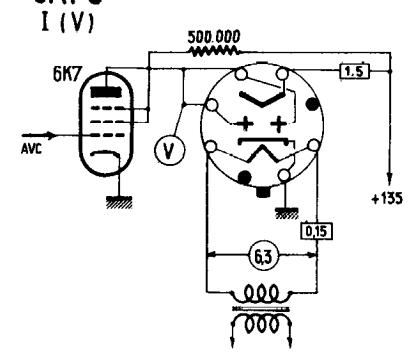
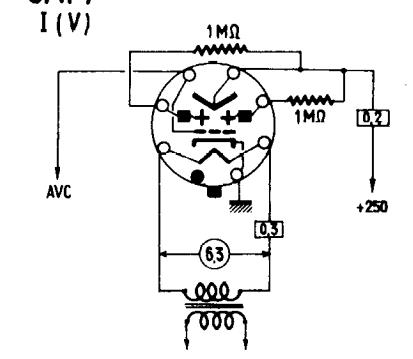
60FX5 P	S=13,5mA/V Vg1=-3V Ri=12,5k Pa=max.5,5W	
6267	=EF86	
6973 P	S=4,8mA/V Vg1=-15V Ri=73k Pa=max.12W	
6A3 T	S=5,25mA/V $\mu=4,2$ Ri=800 Ω Pa=max.15W	
6A4 P	S=2,5mA/V Ri=60k Pa=max.4W	
6A5 T	S=5,25mA/V Vg1=-45V Ri=800 Ω Pa=max.15W	
6A6 TT	6A6 = 6N7 BF	S = 3,1 P = 11.300 V = -5 I = 6
		

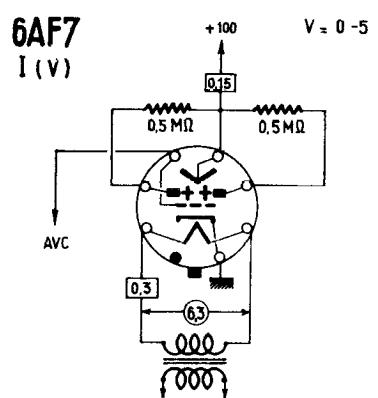


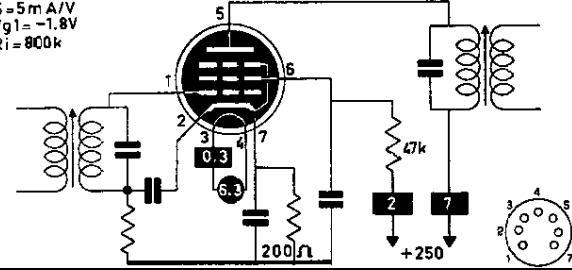
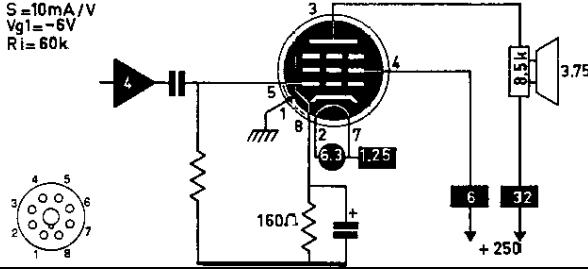
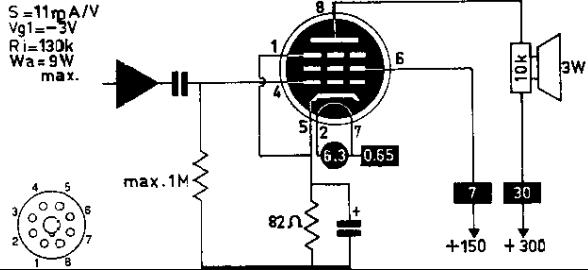
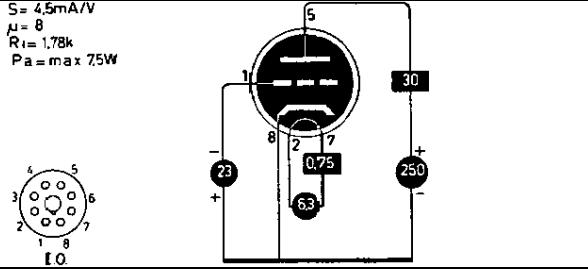
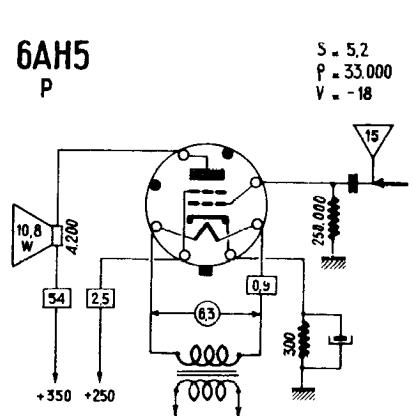
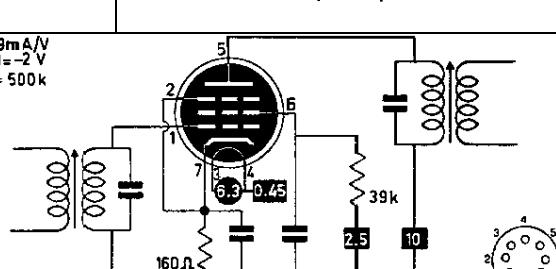
6A7 H	<p>Sc=550 μA/V Vg4=-3V...-35V Ri=0.3M</p>
6A8 H	<p>Sc=550 μA/V Vg4=-3V...-35V Ri=0.3M</p>
6AB4 t	<p>S=5.5 mA/V $\mu=60$ Ri=10.9 k Wa=max 2.5W</p>
6AB5 ti	<p>V = 0 - 10</p>
6AB6 tT	<p>S = 1.8 P = 40.000 V = 0</p>
6AB7 p	<p>S=5mA/V Vg1=-3...-22.5V Ri=700k Pa=max 3.75W</p>

6AB8	=ECL80
6AC5 T	S = 3.4mA/V $\mu = 125$ $R_i = 37k$ $P_a = \text{max. } 8W$  
6AC6 tT	6AC6 P S = 2 $P = 20.000$ $V = 0$ 
6AC7 p	S = 9mA/V $V_{g1} = -2V$ $R_i = 1M$  
6AD5 t	6AD5 BF S = 1.5 $P = 86.000$ $V = -2$ $I = 0.9$ 
6AD6 ii	6AD6 I $V = 0 - 50$ 

6AD7 tP	$S_p = 2,5 \text{ mA/V}$ $R_i = 80\text{k}$ $P_a = \text{max. } 8,5\text{W}$	
6AE5 t	$S_T = 0,3 \text{ mA/V}$ $R_i = 19\text{k}$ $\mu = 6$ $P_a = \text{max. } 1\text{W}$	
6AE6 tt		
6AE7 tt	$S_T = 5,5 \text{ mA/V}$ $\mu = 68$ A $R_i = 12,4 \text{ k}$ $P_a = \text{max. } 1,1\text{W}$	
6AF11 ttP	$S_T = 4,4 \text{ mA/V}$ $\mu = 41$ B $R_i = 9,4 \text{ k}$ $P_a = \text{max. } 2\text{W}$	

6AF3 R	<p>BOOSTER $V_a \text{ inv}_p = \text{max. } 4,5 \text{ kV}$ $I_a p = \text{max } 750 \text{ mA}$</p> 
6AF4 t	<p>$S = 75 \text{ mA/V}$ $\mu = 16$ $R_i = 2.13 \text{ k}\Omega$ $P_a = \text{max } 2 \text{ W}$</p> 
6AF5 t	<p>6AF5 BF</p> <p>$S = 1.5$ $\mu = 4.900$ $V_g = -18$ $I_a = 7$</p> 
6AF6 ii	<p>6AF6 I (V)</p> <p>$V = 0 + 80$</p> 
6AF7 tit	<p>6AF7 I (V)</p> <p>$V = 0 - 19$</p> 



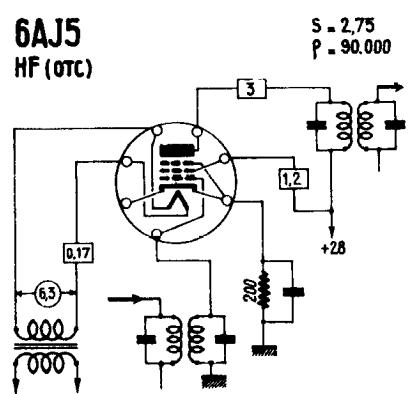
6AG5 p	S=5 mA/V $V_{g1}=-1.8V$ $R_i=800k$	
6AG6 P	S=10 mA/V $V_{g1}=-6V$ $R_i=60k$	
6AG7 P	S=11 mA/V $V_{g1}=-3V$ $R_i=130k$ $W_a=9W$ max.	
6AH4 t	S= 4.5mA/V $\mu=8$ $R_i=1.78k$ $P_a=\text{max } 75W$	
6AH5 P	S = 5.2 $P = 33.000$ $V = -18$	
6AH6 p	S= 9mA/V $V_{g1}=-2 V$ $R_i=500k$	
6AJ4	=EC84	

6AJ5

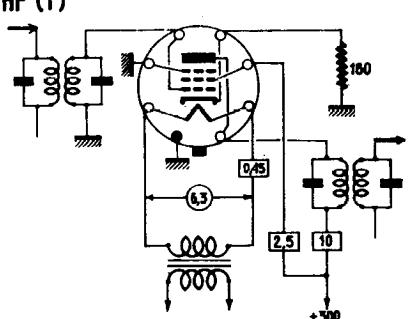
p

6AJ5

HF (OTC)

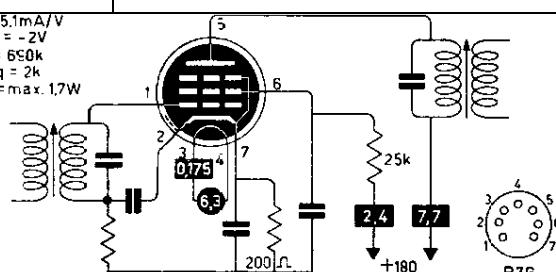
**6AJ7**

p

6AJ7MF (T)
 $S = 9$
 $P = 1\text{M}\Omega$ **6AK5**

p

$S = 5.1\text{mA/V}$
 $V_{g1} = -2\text{V}$
 $R_i = 650\text{k}$
 $R_{eq} = 2\text{k}$
 $P_a = \text{max. } 1.7\text{W}$

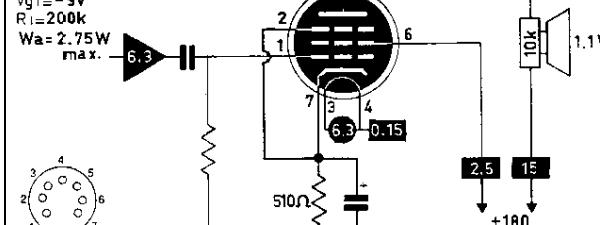
**6AJ8**

=ECH81

6AK6

P

$S = 2.3\text{mA/V}$
 $V_{g1} = -9\text{V}$
 $R_i = 200\text{k}$
 $P_a = 2.75\text{W}$
max.

**6AK8**

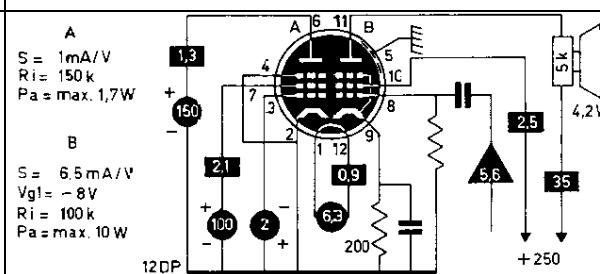
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6AL11

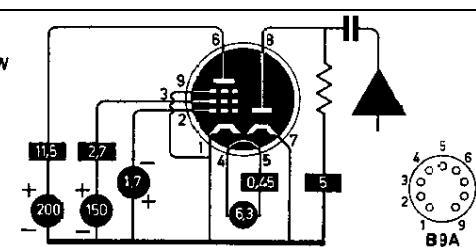
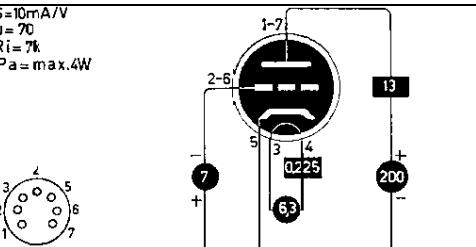
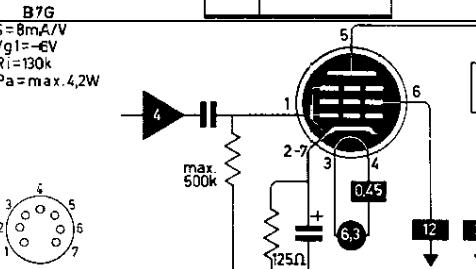
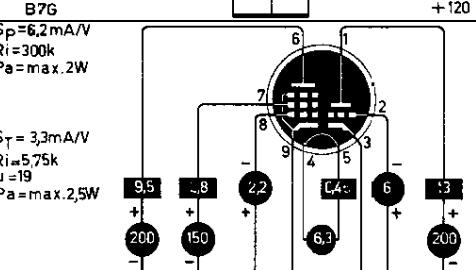
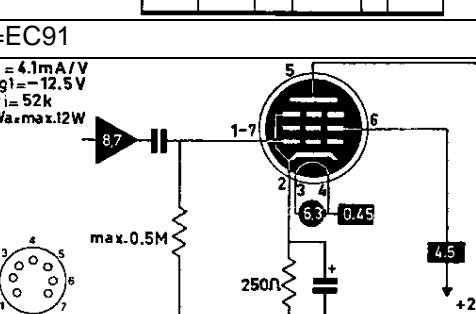
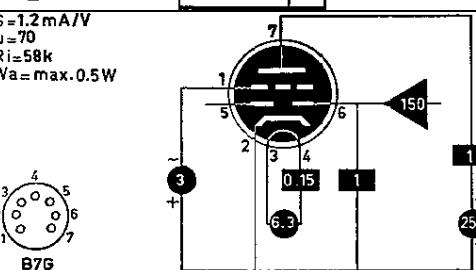
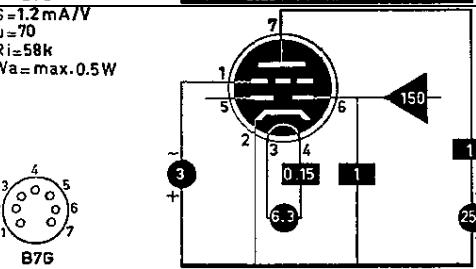
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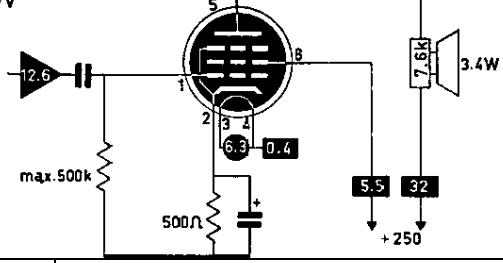
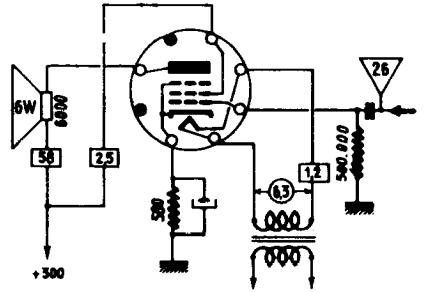
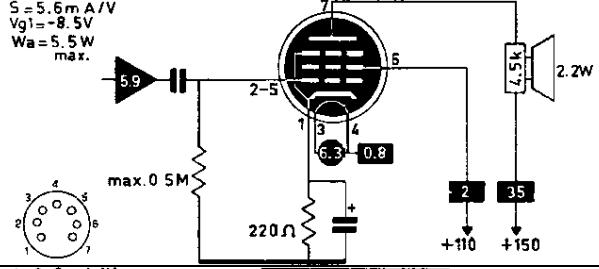
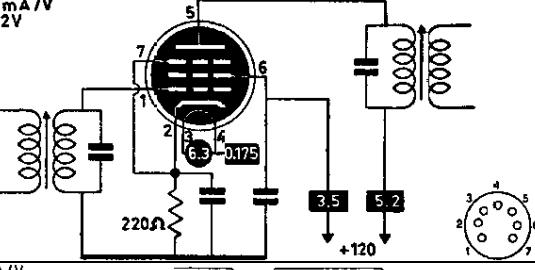
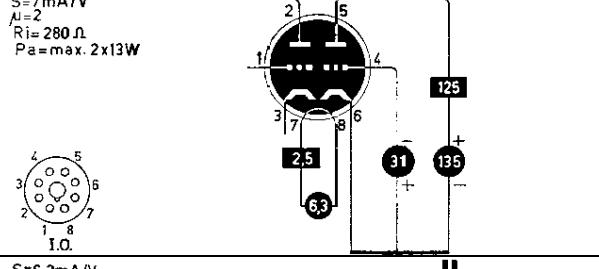
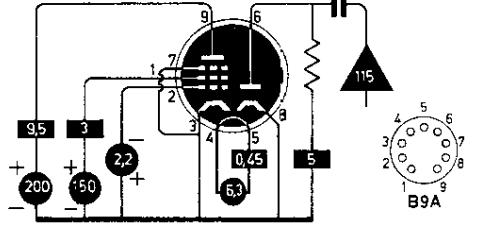
A
 $S = 1\text{mA/V}$
 $R_i = 150\text{k}$
 $P_a = \text{max. } 1.7\text{W}$

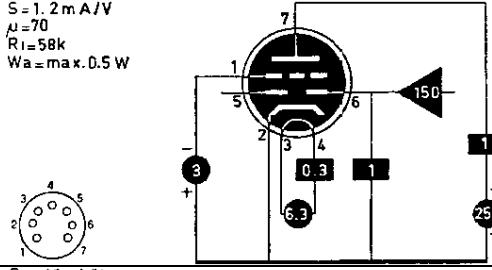
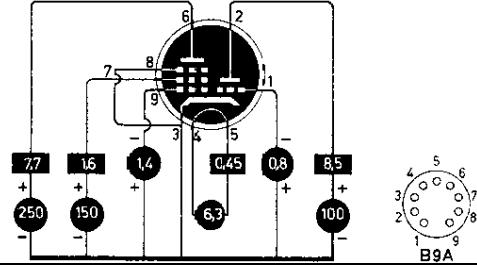
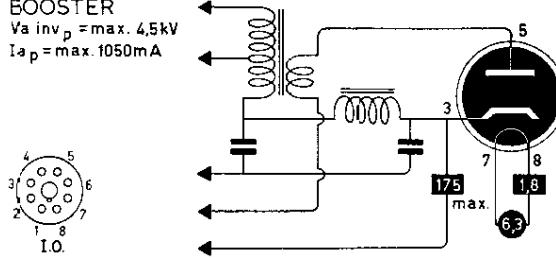
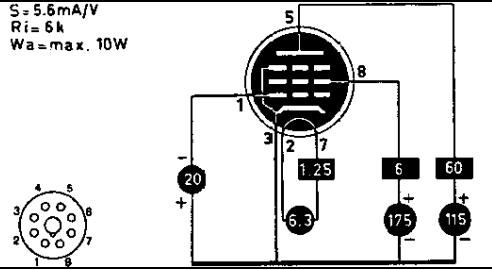
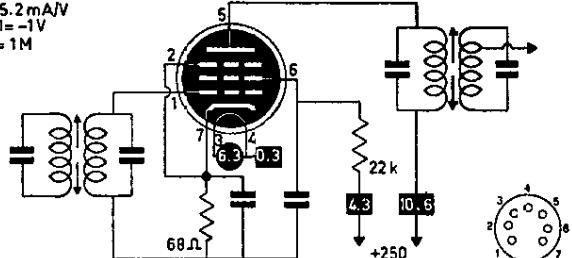
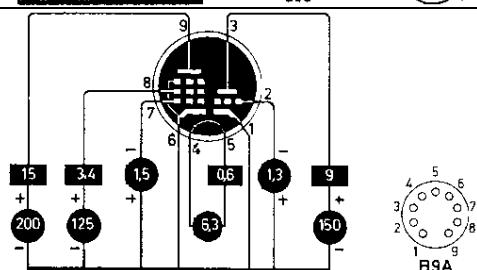
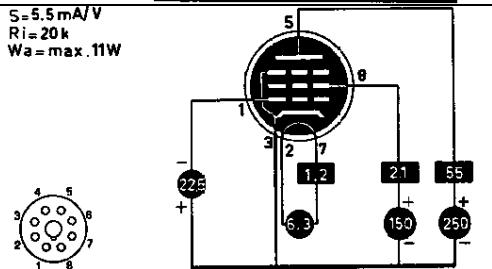
B
 $S = 6.5\text{ mA/V}$
 $V_{g1} = -8\text{V}$
 $R_i = 100\text{k}$
 $P_a = \text{max. } 10\text{ W}$



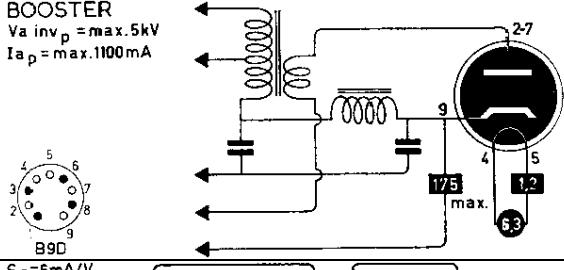
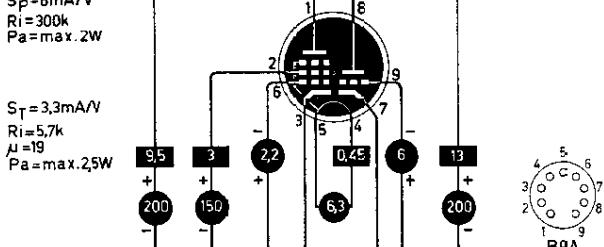
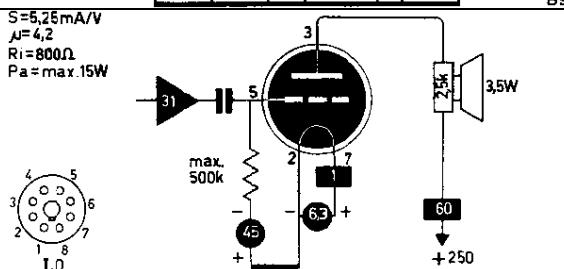
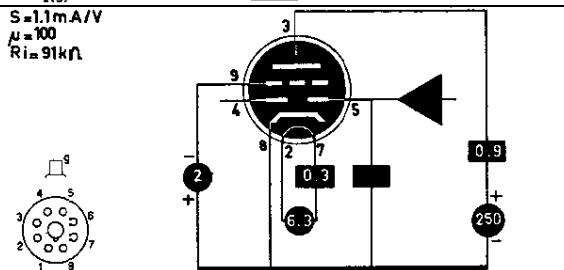
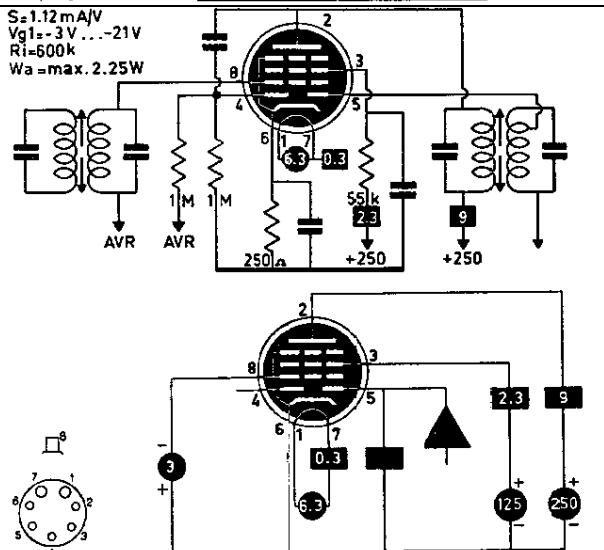
6AL3 d	BOOSTER $V_a \text{ inv}_p = \text{max. } 7,5 \text{ kV}$ $I_a p = \text{max. } 550 \text{ mA}$	
6AL5 dd	$V_d \text{ max. } = 117 \text{ V}$ $I_d \text{ max. } = 9 \text{ mA}$	
6AL6 P	6AL6 + 6L6 P	$S = 6$ $P = 22.500$ $V = -14$
6AM4 t	$S = 9.8 \text{ mA/V}$ $\mu = 85$ $R_i = 8.7 \text{ k}\Omega$ $P_a = \text{max. } 2 \text{ W}$	
6AM5 P	$S = 2.6 \text{ mA/V}$ $V_{g1} = -13.5 \text{ V}$ $R_i = 150 \text{ k}\Omega$ $P_a = \text{max. } 4 \text{ W}$	
6AM6 p	$S = 7.65 \text{ mA/V}$ $V_{g1} = -2 \text{ V}$ $R_i = 1 \text{ M}\Omega$ $\mu_{g2g1} = 70$ $R_{eq} = 1.2 \text{ k}\Omega$	

6AM8 dp	S=7mA/V $R_i=800k$ $P_a=\text{max.}2,8W$	
6AN4 t	S=10mA/V $\mu=70$ $R_i=7k$ $P_a=\text{max.}4W$	
6AN5 P	S=8mA/V $V_{g1}=-6V$ $R_i=130k$ $P_a=\text{max.}4,2W$	
6AN8 tp	$S_p=6,2\text{ mA/V}$ $R_i=300k$ $P_a=\text{max.}2W$	
6AQ4	=EC91	
6AQ5 P	S=4.1mA/V $V_{g1}=-12.5V$ $R_i=52k$ $W_a=\text{max.}12W$	
6AQ6 ddt	S=1.2 mA/V $\mu=70$ $R_i=58k$ $W_a=\text{max.}0.5W$	
6AQ7 ddt	S=1.2 mA/V $\mu=70$ $R_i=58k$ $W_a=\text{max.}0.5W$	
6AQ8	=ECC85	

6AR5 P	S = 2.3 mA/V $V_{g1} = -18V$ $R_i = 65k$ $W_a = 0.5W$ max.  
6AR6 P	6AR6 P S = 1.2 $P = 22.00W$ $V = -36$ 
6AS5 P	S = 5.6 mA/V $V_{g1} = -8.5V$ $W_a = 5.5W$ max.  
6AS6 p	S = 3.2 mA/V $V_{g1} = -2V$  
6AS7 TT	S = 7 mA/V $\mu = 2$ $R_i = 280\Omega$ $P_a = \text{max. } 2 \times 13W$  
6AS8 dp	S = 6.2 mA/V $R_i = 300k$ $P_a = \text{max. } 2.5W$  

6AT6 ddt	<p>$S = 1.2 \text{ mA/V}$ $\mu = 70$ $R_i = 58\text{k}$ $W_a = \text{max. } 0.5 \text{ W}$</p>  <p>Pinout: 1, 2, 3, 4, 5, 6, 7</p>
6AT8 tp	<p>$S_p = 4.6 \text{ mA/V}$ $R_i = 750\text{k}$ $P_a = \text{max. } 2 \text{ W}$</p> <p>$S_T = 5.8 \text{ mA/V}$ $R_i = 6.3\text{k}$ $\mu = 40$ $P_a = \text{max. } 1 \text{ W}$</p>  <p>Pinout: 1, 2, 3, 4, 5, 6, 7, 8, 9</p>
6AU4 R	<p>BOOSTER $V_{a \text{ inv}_p} = \text{max. } 4.5 \text{ kV}$ $I_{a_p} = \text{max. } 1050 \text{ mA}$</p>  <p>Pinout: 1, 2, 3, 4, 5, 6, 7, 8</p>
6AU5 P	<p>$S = 5.6 \text{ mA/V}$ $R_i = 6\text{k}$ $W_a = \text{max. } 10 \text{ W}$</p>  <p>Pinout: 1, 2, 3, 4, 5, 6, 7, 8</p>
6AU6 p	<p>$S = 5.2 \text{ mA/V}$ $V_{g1} = -1 \text{ V}$ $R_i = 1 \text{ M}$</p>  <p>Pinout: 1, 2, 3, 4, 5, 6, 7, 8</p>
6AU8 tp	<p>$S_p = 7 \text{ mA/V}$ $R_i = 150\text{k}$ $P_a = \text{max. } 3 \text{ W}$</p> <p>$S_T = 4.9 \text{ mA/V}$ $R_i = 8.2\text{k}$ $\mu = 40$ $P_a = \text{max. } 2.5 \text{ W}$</p>  <p>Pinout: 1, 2, 3, 4, 5, 6, 7, 8, 9</p>
6AV5 P	<p>$S = 5.5 \text{ mA/V}$ $R_i = 20 \text{ k}$ $W_a = \text{max. } 11 \text{ W}$</p>  <p>Pinout: 1, 2, 3, 4, 5, 6, 7, 8</p>

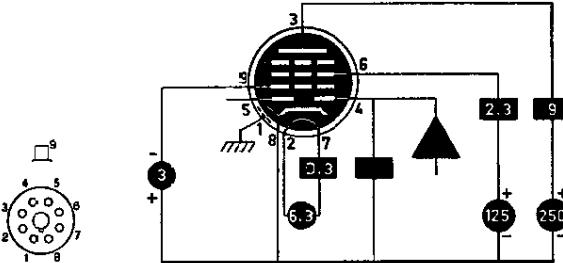
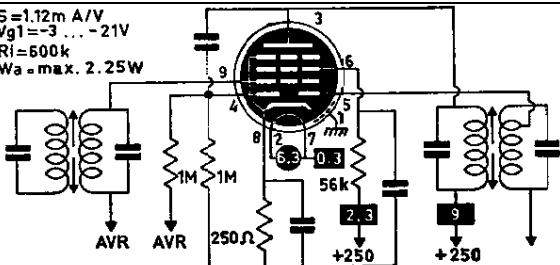
6AV6 ddt	<p>$S = 1.6 \text{ mA/V}$ $\mu = 100$ $R_i = 62.5\text{k}$ $P_a = \text{max.} 1\text{W}$</p> <p>B7G</p>
6AW8 tp	<p>$S_p = 9\text{mA/V}$ $R_i = 400\text{k}$ $P_a = \text{max.} 3.25\text{W}$</p> <p>$S_T = 4\text{mA/V}$ $R_i = 17.5\text{k}$ $\mu = 70$ $P_a = \text{max.} 1\text{W}$</p> <p>B9A</p>
6AX4 R	<p>BOOSTER $V_a \text{ inv}_p = \text{max. } 4.4\text{kV}$ $I_{a_p} = \text{max. } 750\text{mA}$</p> <p>I.O.</p>
6AX5 rr	<p>$R_t = \text{min. } 50\Omega$</p> <p>I.O.</p>
6AX6 rr	<p>I.O.</p>
6AX7 tt	<p>$S = 16\text{mA/V}$ $\mu = 100$ $R_i = 62.5\text{k}$ $P_a = \text{max. } 2 \times 1\text{W}$</p> <p>B9A</p>
6AX8 tp	<p>$S_p = 4.8\text{mA/V}$ $R_i = 400\text{k}$ $P_a = \text{max.} 2.8\text{W}$</p> <p>$S_T = 8.5\text{mA/V}$ $R_i = 5\text{k}$ $\mu = 40$ $P_a = \text{max.} 2.7\text{W}$</p> <p>B9A</p>

6AY3 R	BOOSTER $V_a \text{ inv}_p = \text{max. } 5\text{kV}$ $I_a \text{ inv}_p = \text{max. } 1100\text{mA}$
	
6AZ8 tp	$S_p = 6\text{mA/V}$ $R_i = 300\text{k}$ $P_a = \text{max. } 2\text{W}$ $S_T = 3,3\text{mA/V}$ $R_i = 5,7\text{k}$ $\mu = 19$ $P_a = \text{max. } 2,5\text{W}$
	
6B4 T	$S = 5,25\text{mA/V}$ $\mu = 4,2$ $R_i = 800\Omega$ $P_a = \text{max. } 15\text{W}$
	
6B6 ddt	$S = 1,1\text{mA/V}$ $\mu = 100$ $R_i = 91\text{k}\Omega$
	
6B7 ddp	$S = 1,12\text{mA/V}$ $V_g1 = -3\text{V} \dots -21\text{V}$ $R_i = 600\text{k}$ $P_a = \text{max. } 2,25\text{W}$
	

6B8

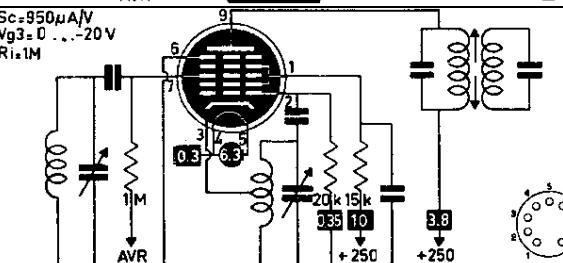
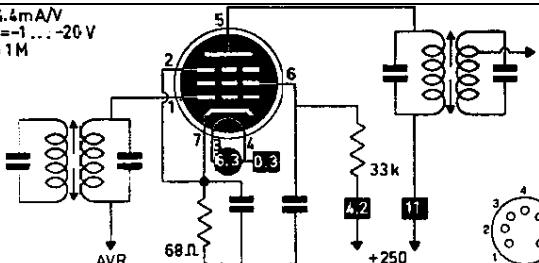
ddp

$S=1.12\text{mA/V}$
 $V_{g1}=-3 \dots -21\text{V}$
 $R_i=600\text{k}$
 $P_a=\text{max. }2.25\text{W}$

**6BA6**

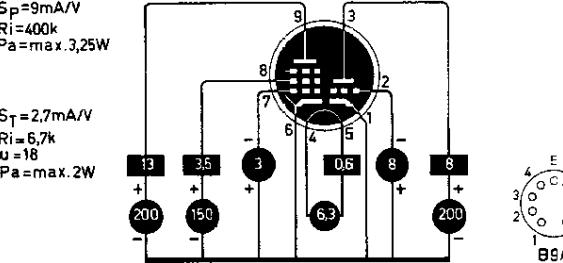
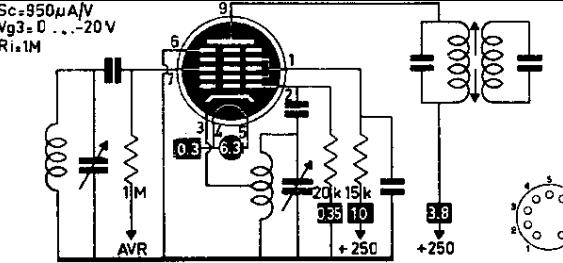
p

$S=4.4\text{mA/V}$
 $V_{g1}=-1 \dots -20\text{V}$
 $R_i=1\text{M}$

**6BA7**

H

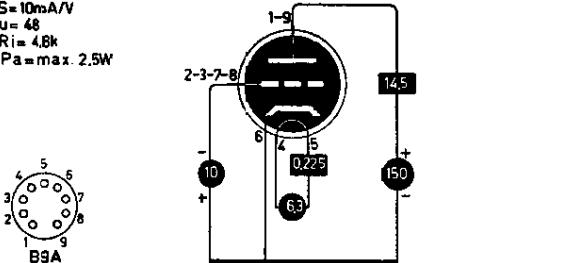
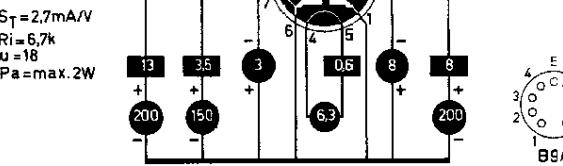
$S_c=950\mu\text{A/V}$
 $V_{g3}=0 \dots -20\text{V}$
 $R_i=1\text{M}$

**6BA8**

tp

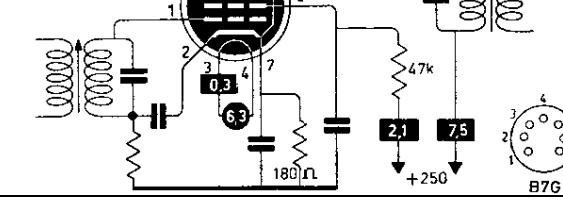
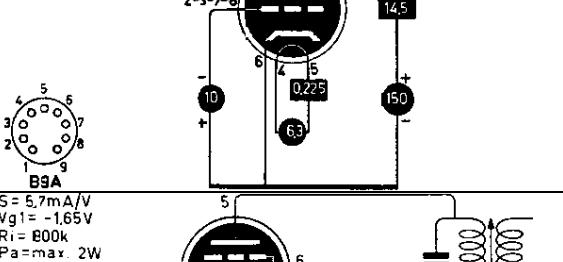
$S_p=9\text{mA/V}$
 $R_i=400\text{k}$
 $P_a=\text{max. }3.25\text{W}$

$S_T=2.7\text{mA/V}$
 $R_i=6.7\text{k}$
 $\mu=18$
 $P_a=\text{max. }2\text{W}$

**6BC4**

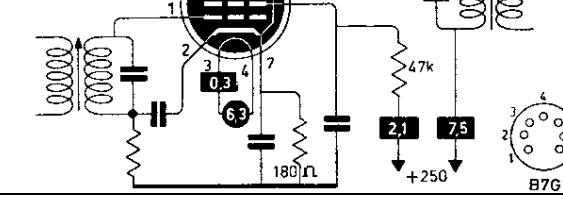
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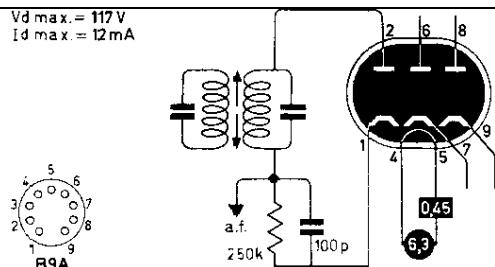
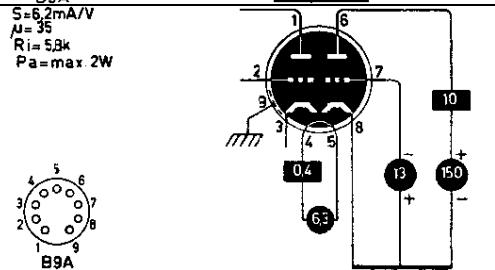
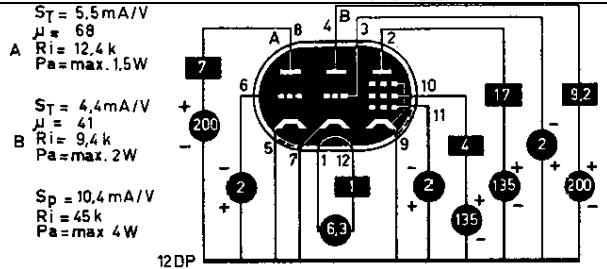
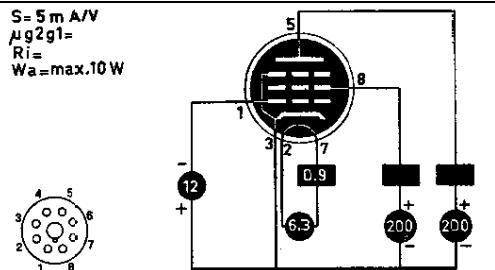
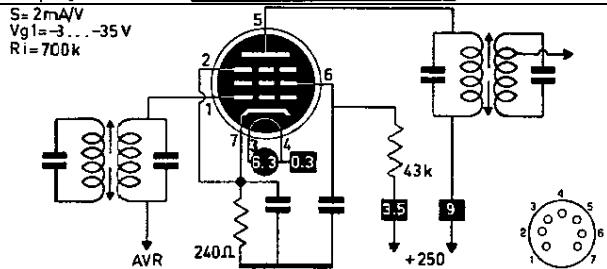
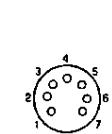
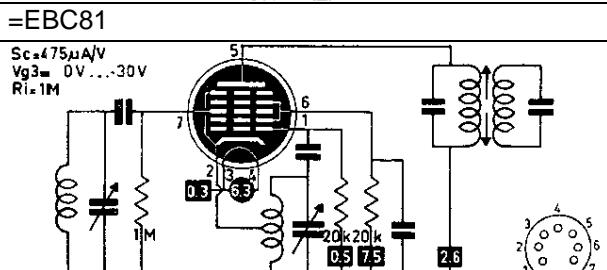
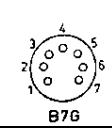
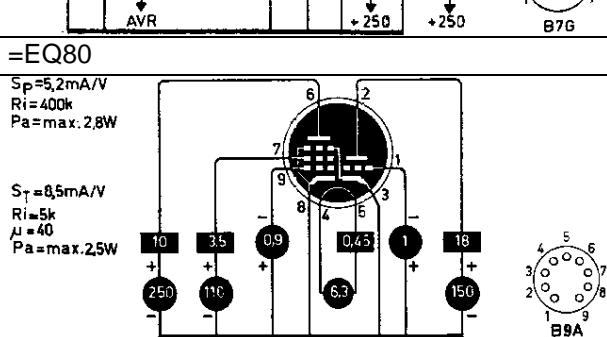
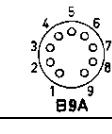
$S=10\text{mA/V}$
 $\mu=48$
 $R_i=4.8\text{k}$
 $P_a=\text{max. }2.5\text{W}$

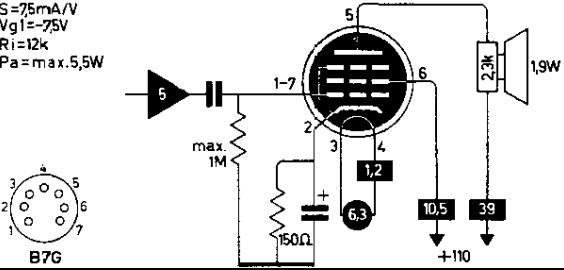
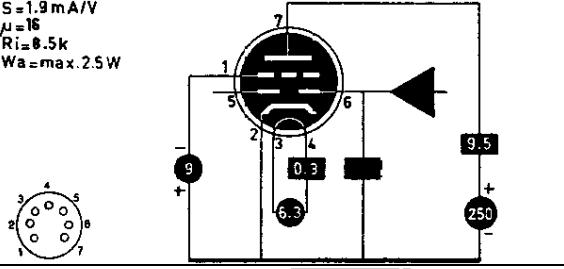
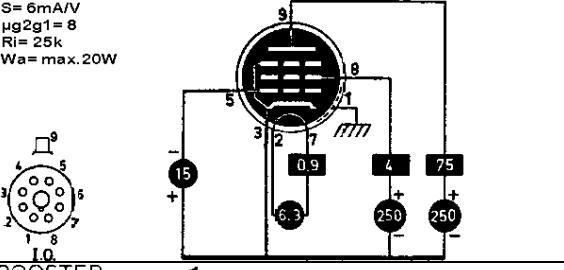
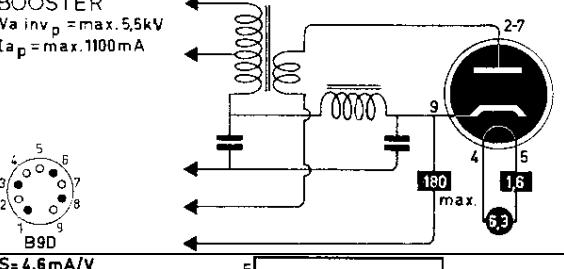
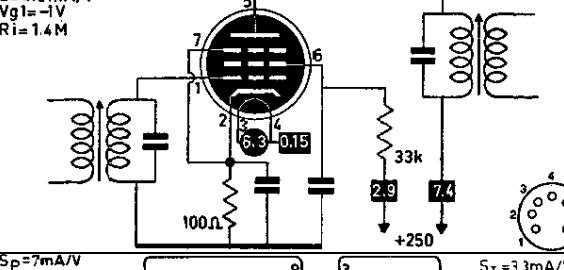
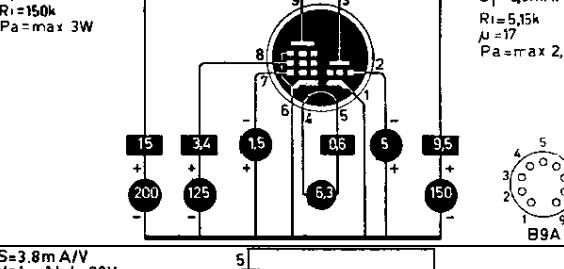
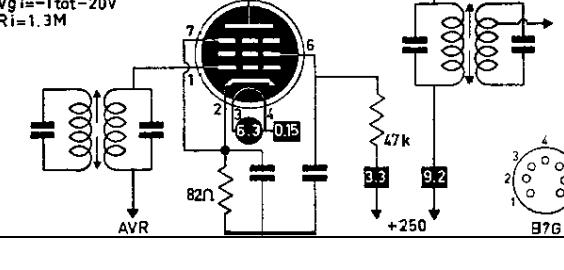
**6BC5**

p

$S=5.7\text{mA/V}$
 $V_{g1}=-1.65\text{V}$
 $R_i=800\text{k}$
 $P_a=\text{max. }2\text{W}$

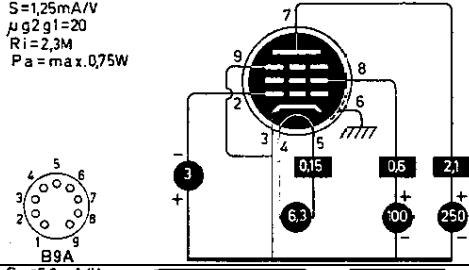
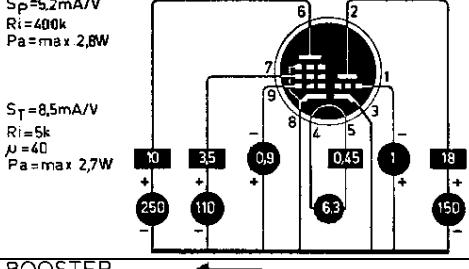
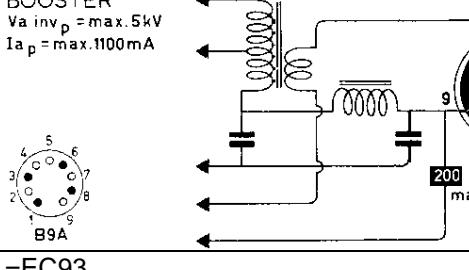
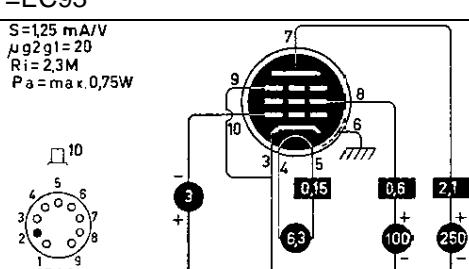
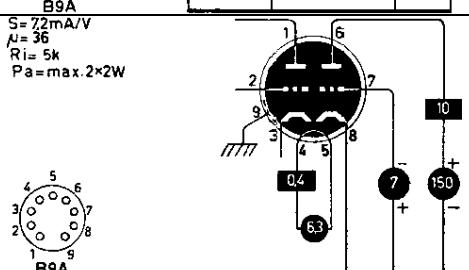
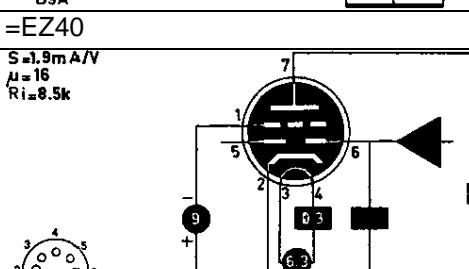
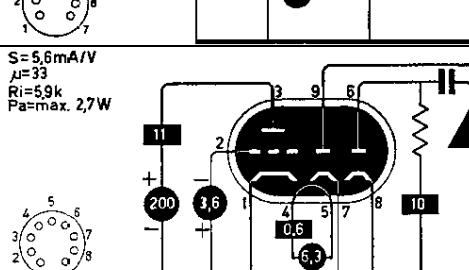


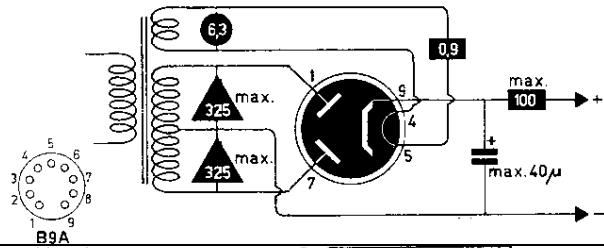
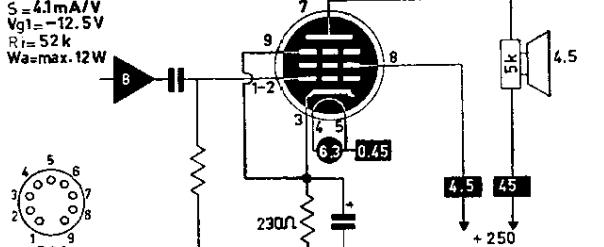
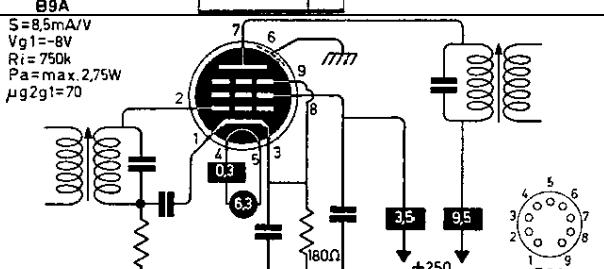
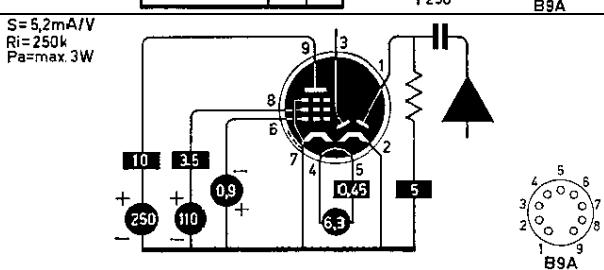
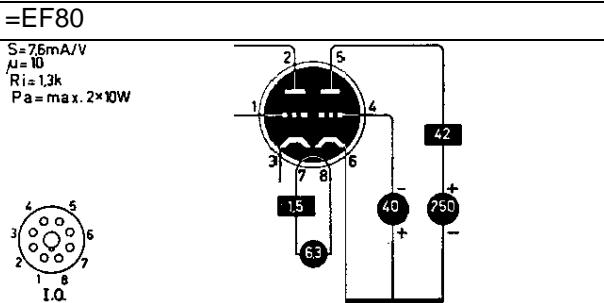
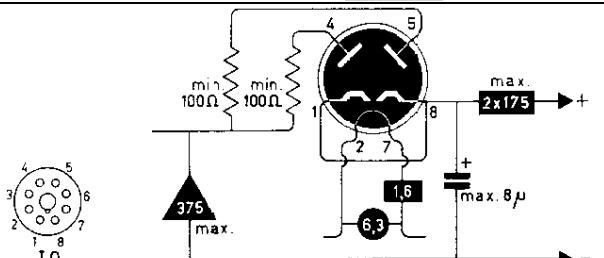
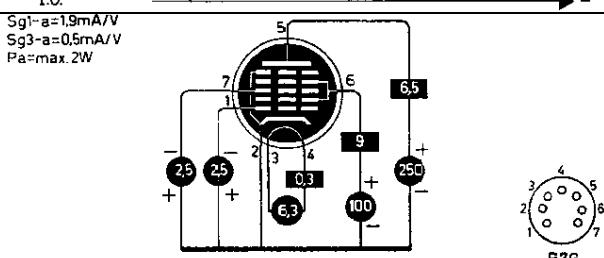
6BC7 ddd	Vd max. = 117 V Id max. = 12 mA  
6BC8 tt	S=2mA/V $\mu=35$ $R_i=5.8k$ $P_a=\text{max } 2W$  
6BD11 ttp	$S_T = 5.5 \text{ mA/V}$ $\mu = 68$ A $R_i = 12.4 \text{ k}$ $P_a = \text{max. } 1.5 \text{ W}$ $S_T = 4.4 \text{ mA/V}$ $\mu = 41$ B $R_i = 9.4 \text{ k}$ $P_a = \text{max. } 2 \text{ W}$ $S_p = 10.4 \text{ mA/V}$ $R_i = 45 \text{ k}$ $P_a = \text{max. } 4 \text{ W}$  
6BD5 P	$S = 5 \text{ mA/V}$ $\mu g_2 g_1 =$ $R_i =$ $P_a = \text{max. } 10 \text{ W}$  
6BD6 p	$S = 2 \text{ mA/V}$ $V_{g1} = -3 \dots -35 \text{ V}$ $R_i = 700 \text{ k}$  
6BD7A	=EBC81
6BE6 H	$S_c = 475 \mu \text{A/V}$ $V_{g3} = 0 \text{ V} \dots 30 \text{ V}$ $R_i = 1 \text{ M}$  
6BE7	=EQ80
6BE8 tp	$S_p = 5.2 \text{ mA/V}$ $R_i = 400 \text{ k}$ $P_a = \text{max. } 2.8 \text{ W}$ $S_T = 0.5 \text{ mA/V}$ $R_i = 5 \text{ k}$ $\mu = 40$ $P_a = \text{max. } 2.5 \text{ W}$  

6BF5 P	S=75mA/V Vg1=-75V Ri=12k Pa=max.5,5W	
6BF6 ddt	S=1.9 mA/V $\mu=16$ Ri=0.5k Wa=max. 2.5 W	
6BG6 P	S=6mA/V $\mu g_2 g_1 = 8$ Ri= 25k Wa=max.20W	
6BH3 R	BOOSTER Va inv. p =max. 5,5kV Iap =max. 1100 mA	
6BH6 p	S=4.6 mA/V Vg1=-1V Ri=1.4M	
6BH8 tp	S _p =7mA/V Ri=150k Pa=max 3W	
6BJ6 p	S=3.8mA/V Vg1=-1tot-20V Ri=1.3M	

6BJ7 ddd	Vd max. = 117 V Id max. = 9 mA	
6BJ8 ddt	S=2,8mA/V $\mu=20$ $R_i=7k$ $P_a=\text{max. } 3,5 \text{ W}$	
6BK5 P	S=0.5mA/V $V_{g1}=-5V$ $R_i=100k$ $P_a=\text{max. } 9W$	
6BK6 ddt	S=1,6mA/V $\mu=100$ $R_i=62.5k$ $W_a=\text{max. } 1W$	
6BK7A tt	S= 9.3mA/V $\mu=43$ $R_i=4.8k$ $P_a=\text{max. } 2.7W$	
6BL4 R	BOOSTER $V_{a\text{ inv}_p}=\text{max. } 4.5kV$ $I_{a_p}=\text{max. } 1.2A$	
6BL7 tt	S= 7mA/V $\mu=15$ $R_i=2,15k$ $P_a=\text{max. } 10W$	
6BL8	=ECF80	

6BM8 tP	<p>$S_p = 6,4 \text{ mA/V}$ $R_i = 20\text{k}$ $\mu g_2 g_1 = 9,5$ $P_a = \text{max. } 7\text{W}$</p> <p>$S_T = 2,5 \text{ mA/V}$ $R_i = 2,8\text{k}$ $\mu = 70$ $P_a = \text{max. } 1\text{W}$</p>
6BN4 t	<p>$S = 6,8 \text{ mA/V}$ $\mu = 43$ $R_i = 6,3\text{k}$ $P_a = \text{max. } 1,5\text{W}$</p>
6BN7 tt	<p>A $S = 5,4 \text{ mA/V}$ $\mu = 12$ $R_i = 2,2\text{k}$ $P_a = \text{max. } 5\text{W}$</p> <p>B $S = 2 \text{ mA/V}$ $\mu = 28$ $R_i = 14\text{k}$ $P_a = \text{max. } 1\text{W}$</p>
6BN8 ddt	<p>$S = 2,5 \text{ mA/V}$ $\mu = 70$ $R_i = 28\text{k}$ $P_a = \text{max. } 1,5\text{W}$</p>
6BQ5 P	<p>$S = 10,4 \text{ mA/V}$ $V_{g1} = -6,4 \text{ V}$ $\mu g_2 g_1 = 19$ $R_i = 40\text{k}$ $P_a = \text{max. } 12\text{W}$</p>
6BQ6 P	<p>$S = 5,5 \text{ mA/V}$ $\mu g_2 g_1 =$ $R_i = 20\text{k}$</p>
6BQ7A tt	<p>$S = 6 \text{ mA/V}$ $\mu = 39$ $R_i = 6,3\text{k}$ $P_a = \text{max. } 2 \times 2\text{W}$</p>
6BR5	=EM80

6BR7 p	S=1,25mA/V $\mu g_2 g_1 = 20$ R _i =2,3M P _a =max.0,75W	
6BR8 tp	S _T =5,2mA/V R _i =400k P _a =max.2,8W	
6BS3 R	BOOSTER V _{a inv p} =max.5kV I _{a p} =max.1100mA	
6BS4	=EC93	
6BS7 p	S=1,25 mA/V $\mu g_2 g_1 = 20$ R _i =2,3M P _a =max.0,75W	
6BS8 tt	S=7,2mA/V $\mu = 3b$ R _i =5k P _a =max.2x2W	
6BT4	=EZ40	
6BU6 ddt	S=1,9 mA/V $\mu = 16$ R _i =8,5k	
6BV8 ddt	S=5,6mA/V $\mu = 33$ R _i =59k P _a =max. 2,7W	

6BW4 rr	$R_t = \text{min. } 2 \times 82 \mu\Omega$ 
6BW6 P	$S = 4.1 \text{ mA/V}$ $V_{g1} = -12.5 \text{ V}$ $R_t = 52 \text{ k}\Omega$ $P_a = \text{max. } 12 \text{ W}$ 
6BW7 p	$S = 8.5 \text{ mA/V}$ $V_{g1} = -8 \text{ V}$ $R_t = 750 \text{ k}\Omega$ $P_a = \text{max. } 2.75 \text{ W}$ $\mu g_2 g_1 = 70$ 
6BW8 ddp	$S = 5.2 \text{ mA/V}$ $R_t = 250 \text{ k}\Omega$ $P_a = \text{max. } 3 \text{ W}$ 
6BX6	=EF80
6BX7 tt	$S = 7.6 \text{ mA/V}$ $\mu = 10$ $R_t = 1.3 \text{ k}\Omega$ $P_a = \text{max. } 2 \times 10 \text{ W}$ 
6BY5 rr	
6BY6 H	$S_{g1-a} = 1.9 \text{ mA/V}$ $S_{g3-a} = 0.5 \text{ mA/V}$ $P_a = \text{max. } 2 \text{ W}$ 
6BY7	=EF85

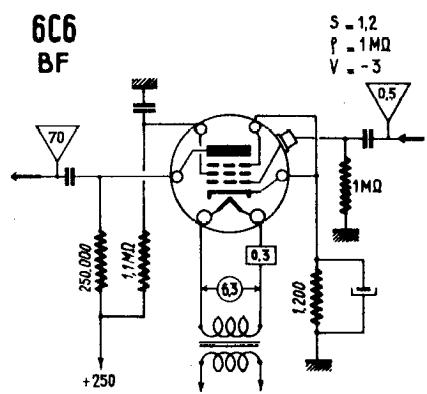
6BY8 dp	S= 5,2 mA/V Ri=1M Pa=max 3W	
6BZ6 p	S=5,1 mA/V Vg1=-2,4...-23V Ri= 500k Pa=max.2,5W	
6BZ7 tt	S=6,8 mA/V $\mu=38$ Ri= 5,6k Pa=max. 2x2W	
6BZ8 tt	S= 8 mA/V $\mu=45$ Ri= 5,6 k Pa=max. 2x2,2W	
6C4 t~	S= 2,2 mA/V $\mu=17$ Ri= 7,7 k Wa=max. 3,5 W	
6C5 t	S= 2 mA/V $\mu=20$ Ri= 10k Wa=max. 2.5 W	

6C6

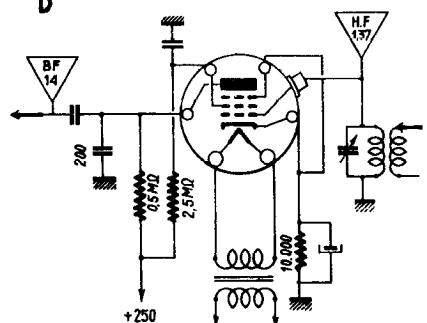
p

6C6

BF

**6C6**

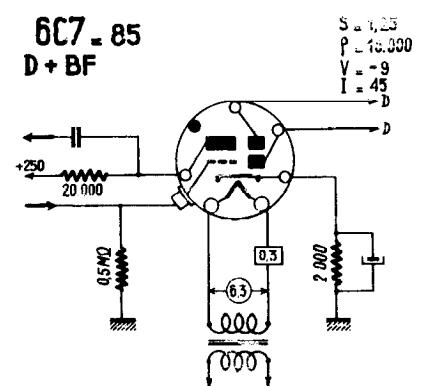
D

**6C7**

ddt

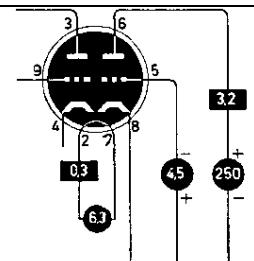
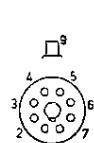
6C7 - 85

D + BF

**6C8**

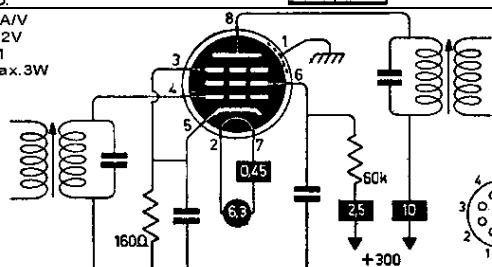
tt

$S = 1.6 \text{ mA/V}$
 $N = 36$
 $R_i = 22.5 \text{ k}\Omega$
 $P_a = \text{max. } 2 \text{ W}$

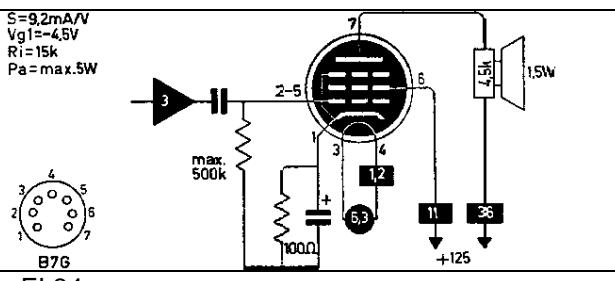
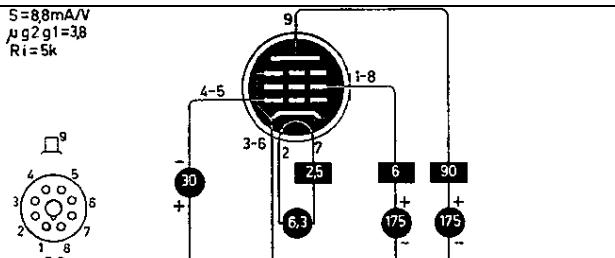
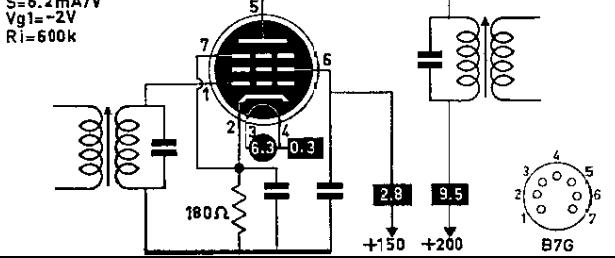
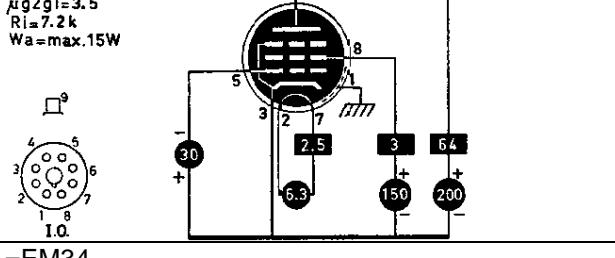
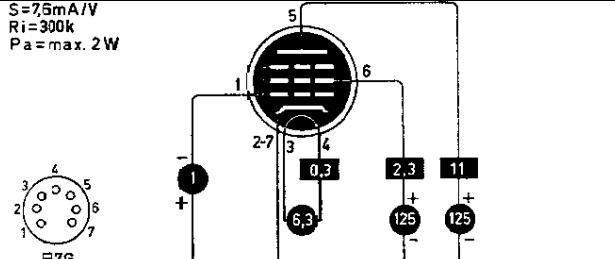
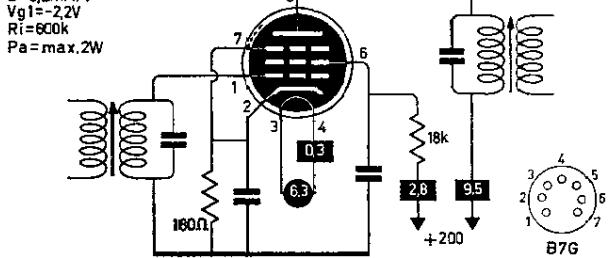
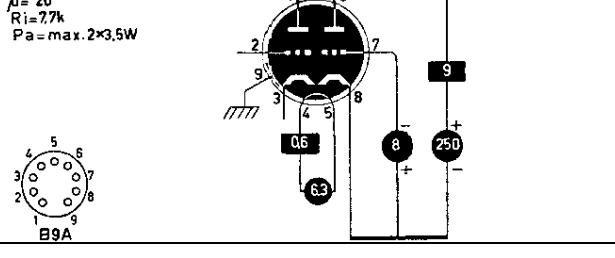
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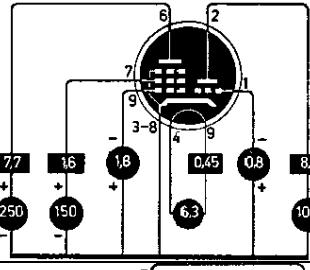
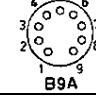
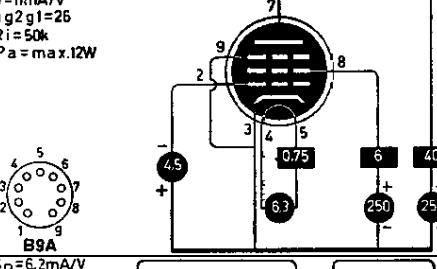
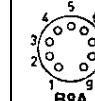
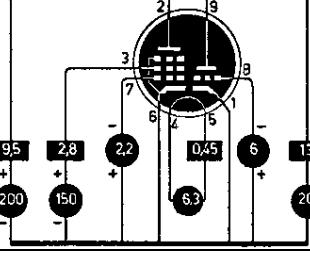
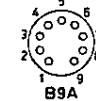
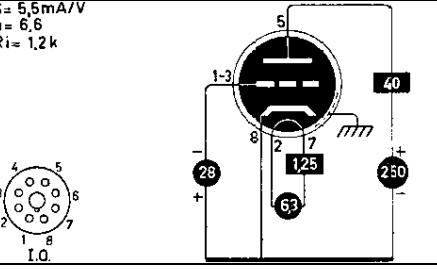
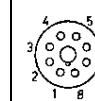
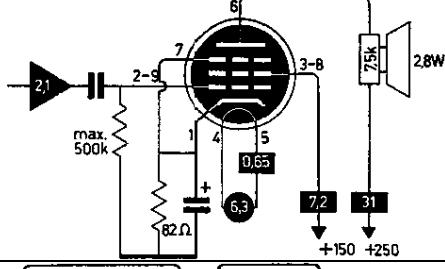
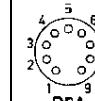
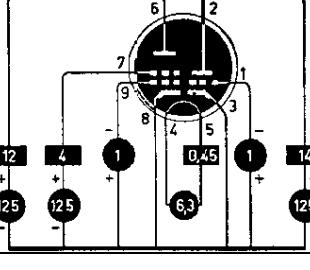
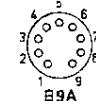
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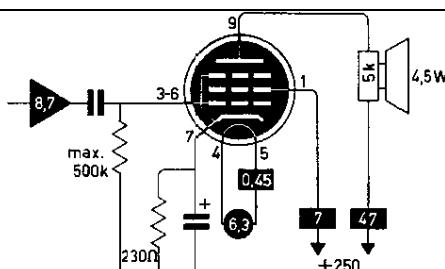
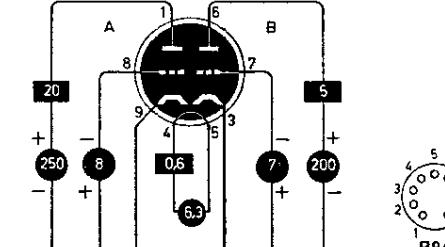
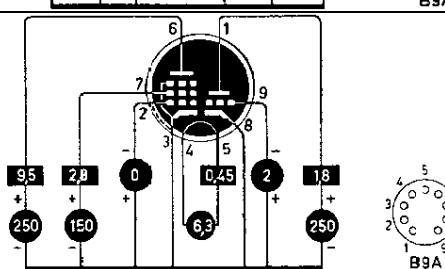
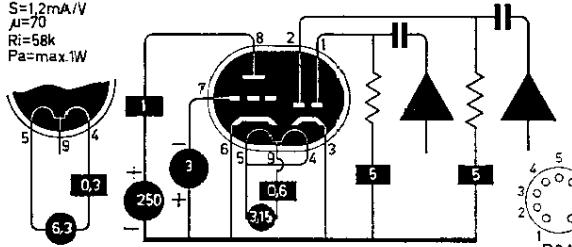
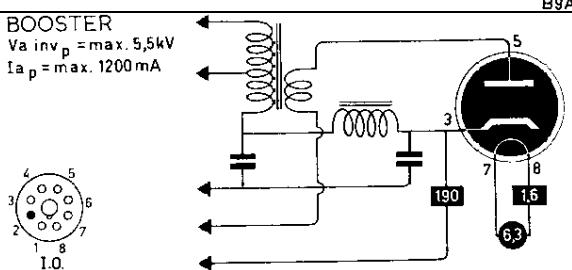
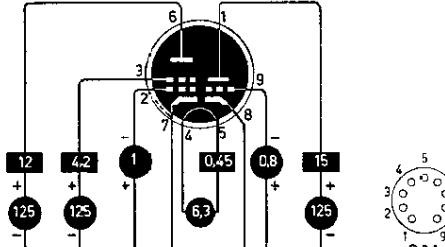
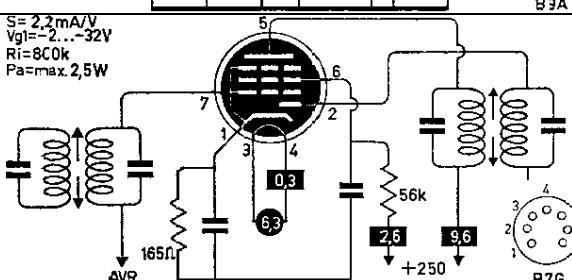
$S = 9 \text{ mA/V}$
 $V_{gt} = -2 \text{ V}$
 $R_i = 1 \text{ M}\Omega$
 $P_a = \text{max. } 3 \text{ W}$

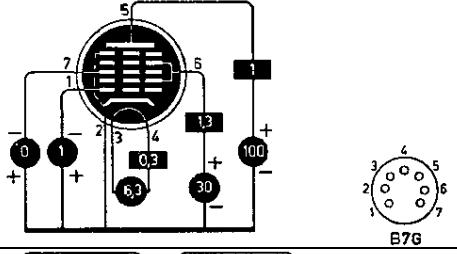
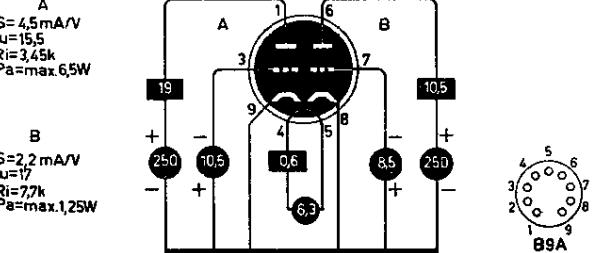
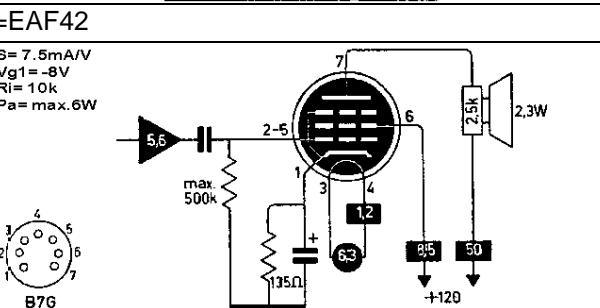
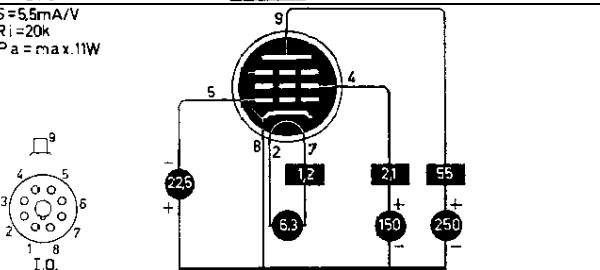
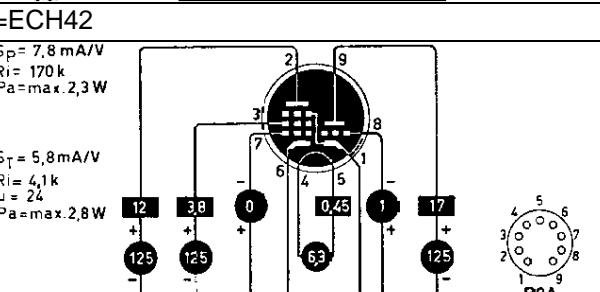
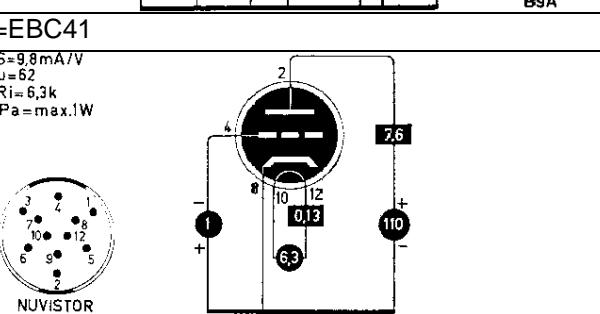
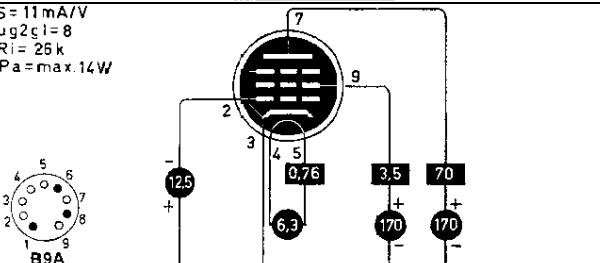
**6CA4**

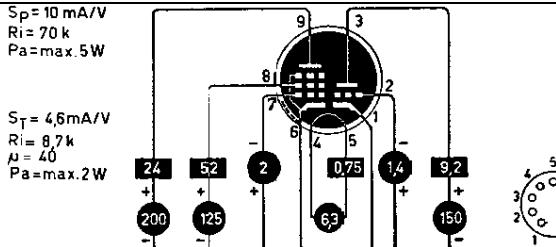
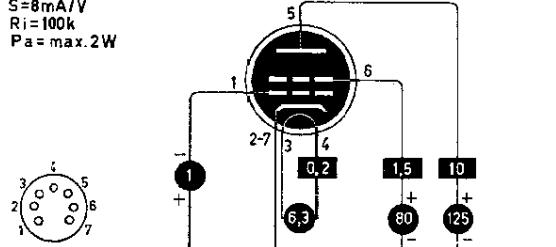
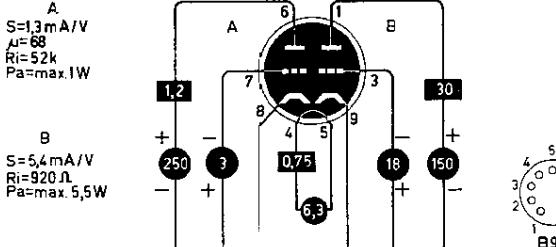
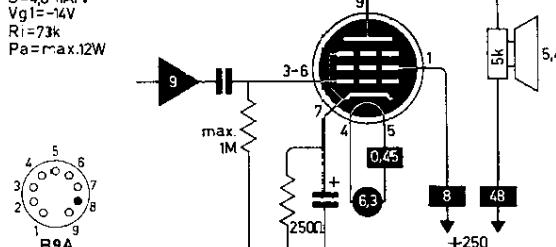
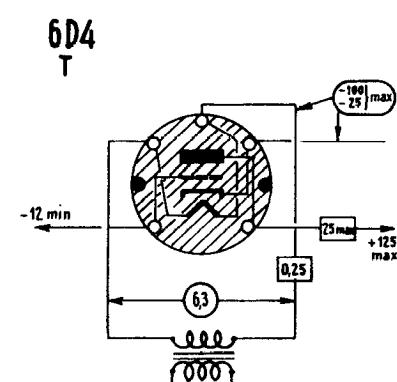
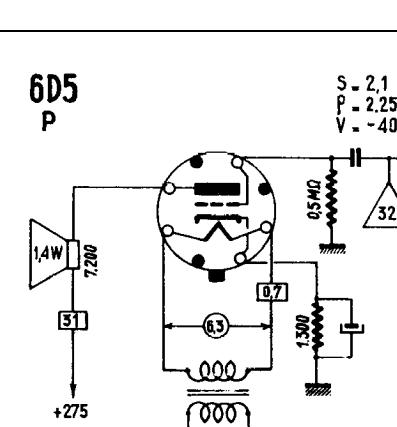
=EZ81

6CA5 P	S=9,2mA/V $V_{g1}=-4,5V$ $R_i=15k$ $P_a=\text{max.}5W$	
6CA7	=EL34	
6CB5 P	S=8,8mA/V $\mu g_2 g_1=38$ $R_i=5k$	
6CB6 p	S=6,2mA/V $V_{g1}=-2V$ $R_i=600k$	
6CD6 P	S=6,7mA/V $\mu g_2 g_1=3,5$ $R_i=7,2k$ $P_a=\text{max.}15W$	
6CD7	=EM34	
6CE5 p	S=7,5mA/V $R_i=300k$ $P_a=\text{max.}2W$	
6CF6 p	S=6,2mA/V $V_{g1}=-2,2V$ $R_i=600k$ $P_a=\text{max.}2W$	
6CG7 tt	S=2,6mA/V $\mu=20$ $R_i=7,7k$ $P_a=\text{max.}2\times3,5W$	

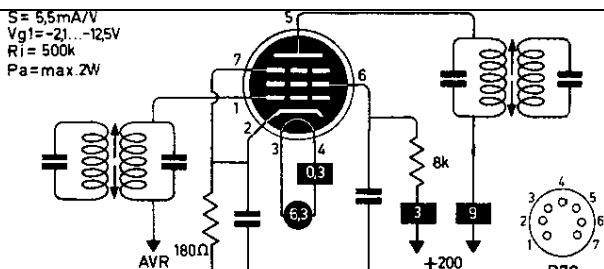
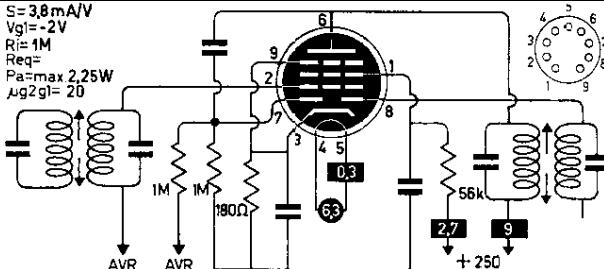
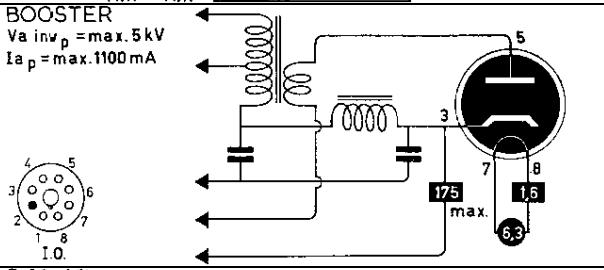
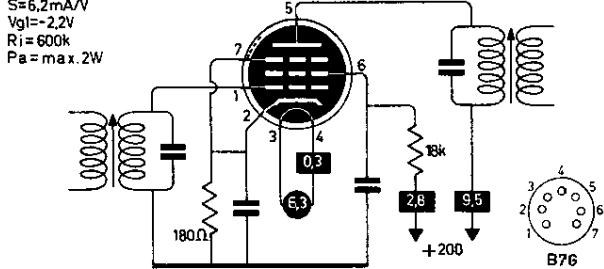
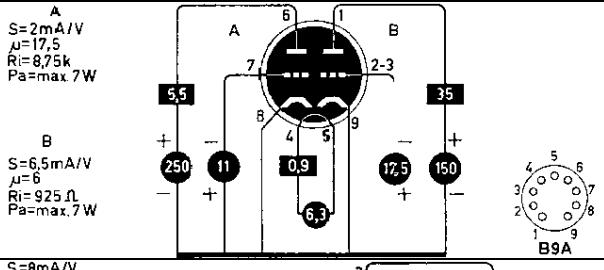
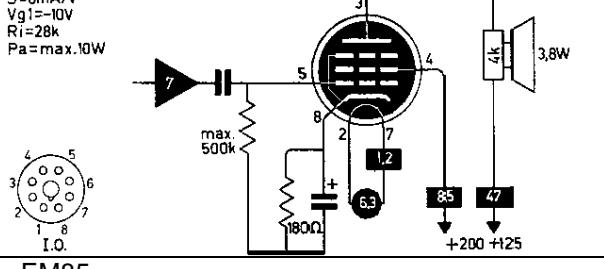
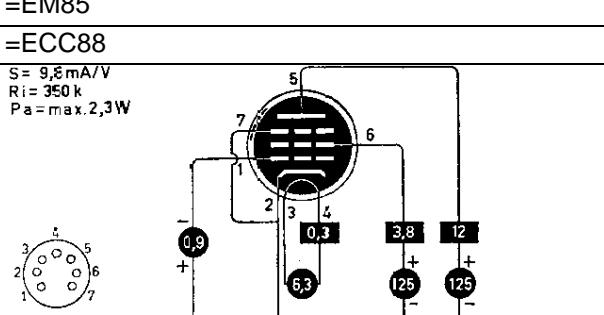
6CG8 tp	$S_p = 4,6 \text{ mA/V}$ $R_i = 750\text{k}$ $P_a = \text{max. } 2\text{W}$	 
6CH6 P	$S_T = 5,8 \text{ mA/V}$ $\mu g_2 g_1 = 26$ $R_i = 50\text{k}$ $P_a = \text{max. } 1,2\text{W}$	 
6CH8 tp	$S_p = 6,2 \text{ mA/V}$ $R_i = 300\text{k}$ $P_a = \text{max. } 2\text{W}$	 
6CJ5	=EF41	
6CJ6	=EL81	
6CK4 t	$S = 5,5 \text{ mA/V}$ $\mu = 6,6$ $R_i = 1,2 \text{ k}$	 
6CK5	=EL41	
6CK6	=EL83	
6CL6 P	$S = 11 \text{ mA/V}$ $V_{g1} = -3\text{V}$ $R_i = 160\text{k}$ $P_a = \text{max. } 7,5\text{W}$	 
6CL8A tq	$S_p = 6,5 \text{ mA/V}$ $R_i = 200 \text{ k}$ $P_a = \text{max. } 3\text{W}$	 
6CM4	=EC86	
6CM5	=EL36	

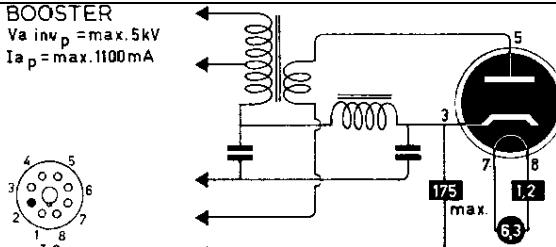
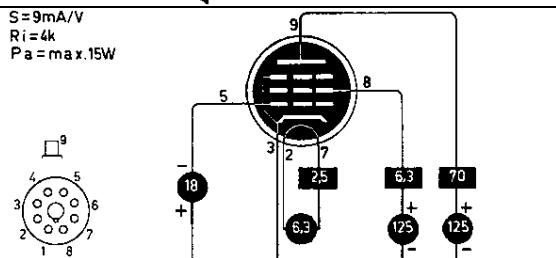
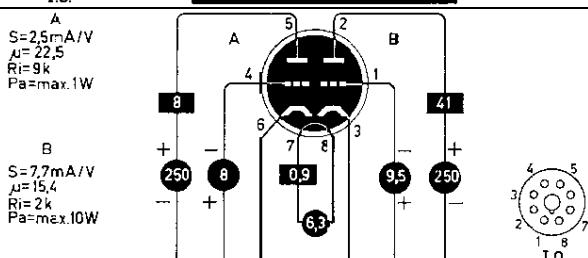
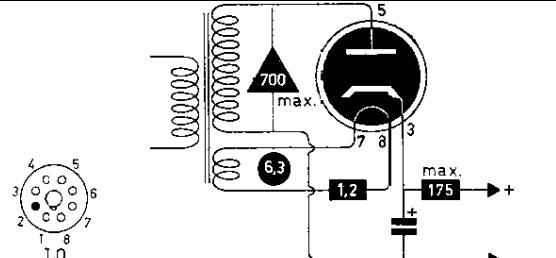
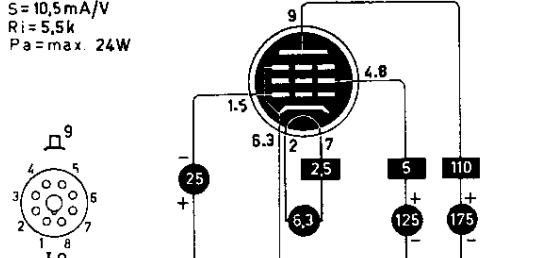
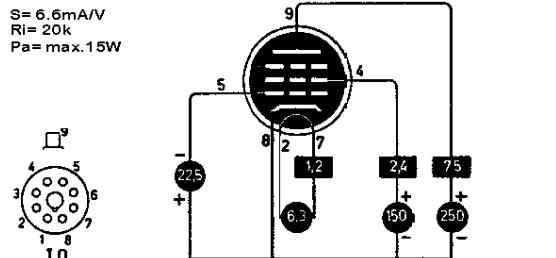
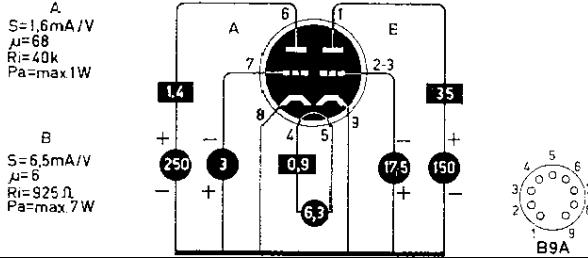
6CM6 P	S=4,1mA/V $V_g = -12,5V$ $R_i = 50k$ $P_a = \text{max. } 12W$	
6CM7 tt	A S=4,4mA/V $\mu=18$ $R_i=4k$ $P_a=\text{max. } 5,5W$ B S=2mA/V $\mu=20$ $R_i=11k$ $P_a=\text{max. } 1,25W$	
6CM8 tp	$S_p = 6,2 \text{ mA/V}$ $R_i = 600k$ $P_a = \text{max. } 2W$ $S_T = 2 \text{ mA/V}$ $R_i = 50k$ $\mu = 100$ $P_a = \text{max. } 1W$	
6CN6	=EL38	
6CN7 ddt	S=1,2mA/V $\mu=70$ $R_i=58k$ $P_a=\text{max. } 1W$	
6CQ4 R	BOOSTER $V_a \text{ inv}_p = \text{max. } 5,5kV$ $I_{a_p} = \text{max. } 1200 \text{ mA}$	
6CQ6	=EF92	
6CQ8 tq	$S_{T_e} = 5,8 \text{ mA/V}$ $R_i = 140k$ $P_a = \text{max. } 2,8W$ $S_T = 8 \text{ mA/V}$ $R_i = 5k$ $\mu = 40$ $P_a = \text{max. } 2,7W$	
6CR6 dp	S=2,2mA/V $V_g = -2...-32V$ $R_i=80k$ $P_a=\text{max. } 2,5W$	

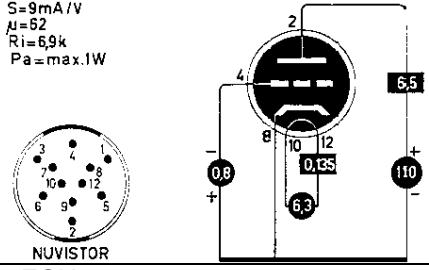
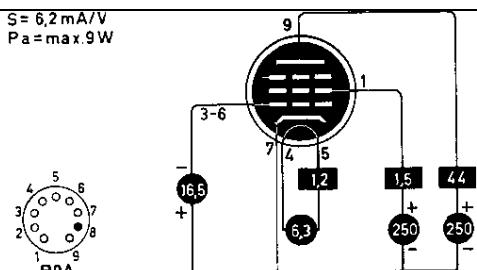
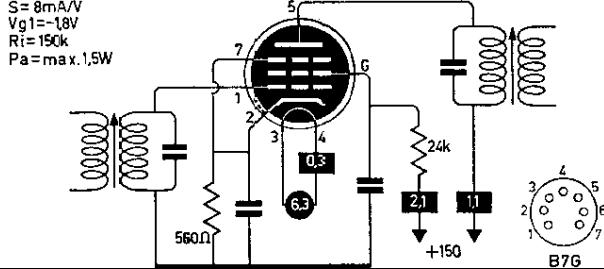
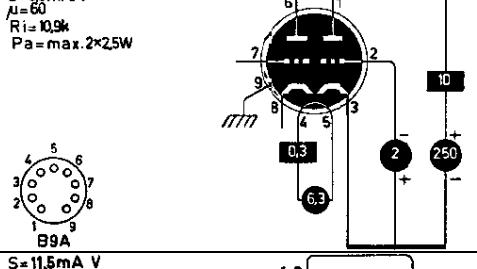
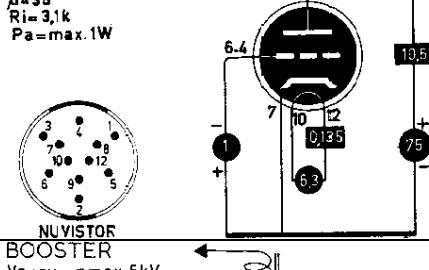
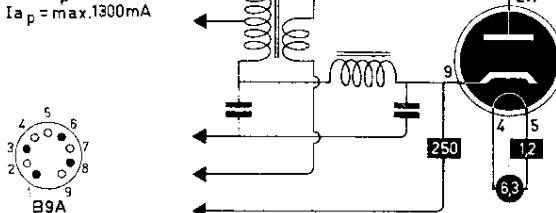
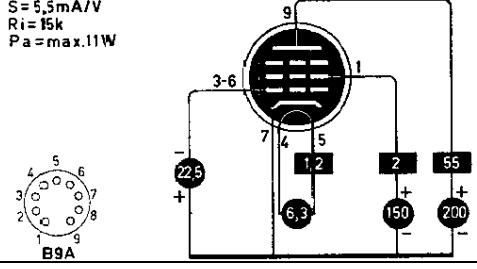
6CS6 H	Sg1-a=1mA/V Ri=1M Pa=max.1W	
6CS7 tt	A S=4,5mA/V $\mu=15,5$ Ri=3,45k Pa=max.6,5W B S=2,2 mA/V $\mu=17$ Ri=7,7k Pa=max.1,25W	
6CT7	=EAF42	
6CU5 P	S= 7.5mA/V Vg1=-8V Ri= 10k Pa= max.6W	
6CU6 P	S=5,5mA/V Ri=20k Pa = max.11W	
6CU7	=ECH42	
6CU8 tp	S _p = 7,8 mA/V Ri= 170k Pa=max.2,3 W S _T = 5,8 mA/V Ri= 4,1 k $\mu=24$ Pa=max.2,8 W	
6CV7	=EBC41	
6CW4 t	S=9,8mA/V $\mu=52$ Ri=6,3k Pa=max.1W	
6CW5 P	S=11mA/V $\mu g_2 \zeta l=8$ Ri= 26 k Pa=max.14W	

6CW7	=ECC84
6CX8 tp	<p>$S_T = 10 \text{ mA/V}$ $R_i = 70 \text{ k}$ $P_a = \text{max. } 5 \text{ W}$</p> <p>$S_T = 4,6 \text{ mA/V}$ $R_i = 8,7 \text{ k}$ $\mu = 40$ $P_a = \text{max. } 2 \text{ W}$</p>  <p>Base pinouts: Top: 9, 3, 2, 8, 1 Bottom: 24, 52, 2, 6, 4, 0.75, 14, 9.2, 150 Left: 200, 125 Right: 0.75, 14, 9.2, 150 Bottom left: 1, 5, 6, 3 Bottom right: 2, 7, 3, 4, 0.2, 1.5, 10, 125 Bottom center: 6, 3</p>
6CY5 q	<p>$S = 8 \text{ mA/V}$ $R_i = 100 \text{ k}$ $P_a = \text{max. } 2 \text{ W}$</p>  <p>Base pinouts: Top: 5, 6 Bottom: 1, 2, 3, 4, 0.2, 1.5, 10, 125 Left: 3, 4, 5, 6, 7 Right: 2, 7, 3, 4, 0.2, 1.5, 10, 125 Bottom left: 6, 3 Bottom right: 1, 5, 6, 3</p>
6CY7 tt	<p>A $S = 1,3 \text{ mA/V}$ $\mu = 68$ $R_i = 52 \text{ k}$ $P_a = \text{max. } 1 \text{ W}$</p> <p>B $S = 5,4 \text{ mA/V}$ $R_i = 920 \Omega$ $P_a = \text{max. } 5,5 \text{ W}$</p>  <p>Base pinouts: Top: 6, 1, 8, 7, 4, 5, 9 Bottom: 1.2, 20, 1.5, 10, 125 Left: 250, 3 Right: 0.75, 18, 150 Bottom left: 6, 3 Bottom right: 1, 5, 6, 3</p>
6CZ5 P	<p>$S = 4,8 \text{ mA/V}$ $V_{g1} = -14 \text{ V}$ $R_i = 73 \text{ k}$ $P_a = \text{max. } 12 \text{ W}$</p>  <p>Base pinouts: Top: 9, 1 Bottom: 3-6, 7, 4, 5, 0.45, 6, 3 Left: 250 Right: 150 Bottom left: 8, 48 Bottom right: +250</p>
6D4 t°	<p>6D4 T</p>  <p>Base pinouts: Top: 100, 25, 0.25, 25, 125 Bottom: 12 min, 6, 3 Left: 0.25 Right: 000</p>
6D5 T	<p>6D5 P</p> <p>$S = 2,1$ $P = 2,250$ $V = -40$</p>  <p>Base pinouts: Top: 32 Bottom: 0.7, 13, 000 Left: 0.7, 13, 000 Right: 0.5MΩ, 150Ω, 0.5MΩ, 150Ω Bottom left: 31 Bottom right: +275</p>

6D6 p	6D6 HF (V)
	<p>$S = 1,6$ $P = 0,8 \text{ M}\Omega$ $V = -3 - 50$</p>
6D7 p	<p>$S = 1,225 \text{ mA/V}$ $R_i = 1\text{M}$ $P_a = \text{max. } 0,75\text{W}$</p>
6D8 H	<p>$S_c = 550 \mu\text{A/V}$ $V_{g4} = -3\text{V}$ $R_i = 400\text{k}$</p>
6DA4 R	<p>BOOSTER $V_a \text{ inv}_p = \text{max. } 4,4\text{ kV}$ $I_a p = \text{max. } 900 \text{ mA}$</p>
6DA5	=EM81
6DA6	=EF89
6DB5 P	<p>$S = 8 \text{ mA/V}$ $V_{g1} = -10\text{V}$ $R_i = 28\text{k}$ $P_a = \text{max. } 10\text{W}$</p>
6DB6 p	<p>$S = 0,05 \text{ mA/V}$ $V_{g1} = -1\text{V}$ $R_i = 50\text{k}$ $P_a = \text{max. } 0,9\text{W}$</p>

6DC6 p	S= 5,5mA/V Vg1=-2...-12V Ri= 500k Pa=max.2W 
6DC8 ddp	S= 3,8mA/V Vg1=-2V Ri= 1M Req= Pa=max.2,25W $\mu g2g1= 20$ 
6DE4 R	BOOSTER Va inv _p =max. 5kV Ia _p =max. 1100 mA 
6DE6 p	S= 6,2mA/V Vg1=-2,2V Ri= 600k Pa= max. 2W 
6DE7 tt	A S= 2mA/V $\mu=17,5$ Ri= 8,75k Pa= max. 7W B S= 6,5mA/V $\mu=6$ Ri= 925 Ω Pa= max. 7W 
6DG6 P	S= 8mA/V Vg1=-10V Ri= 28k Pa= max. 10W 
6DG7	=EM85
6DJ8	=ECC88
6DK6 p	S= 9,6mA/V Ri= 350 k Pa= max. 2,3W 
6DL4	=EC88

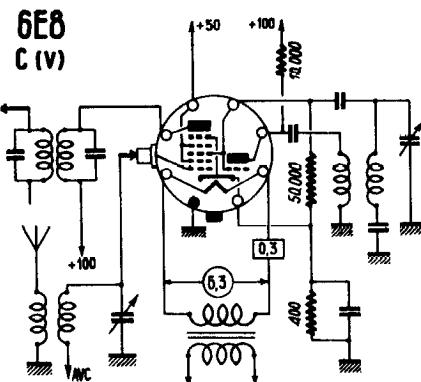
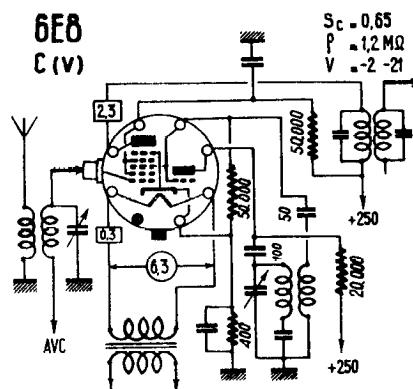
6DL5	=EL95
6DM4 R	BOOSTER $V_a \text{ inv}_p = \text{max. } 5\text{kV}$ $I_{a_p} = \text{max. } 1100\text{mA}$ 
6DN6 P	$S=9\text{mA/V}$ $R_i=4\text{k}$ $P_a=\text{max. } 15\text{W}$ 
6DN7 tt	A $S=2.5\text{mA/V}$ $\mu=22.5$ $R_i=9\text{k}$ $P_a=\text{max. } 1\text{W}$ B $S=7.7\text{mA/V}$ $\mu=15.4$ $R_i=2\text{k}$ $P_a=\text{max. } 10\text{W}$ 
6DQ4 R	
6DQ5 P	$S=10.5\text{mA/V}$ $R_i=5.5\text{k}$ $P_a=\text{max. } 24\text{W}$ 
6DQ6A P	$S=6.6\text{mA/V}$ $R_i=20\text{k}$ $P_a=\text{max. } 15\text{W}$ 
6DR7 tt	A $S=1.6\text{mA/V}$ $\mu=68$ $R_i=40\text{k}$ $P_a=\text{max. } 1\text{W}$ B $S=6.5\text{mA/V}$ $\mu=6$ $R_i=925\Omega$ $P_a=\text{max. } 7\text{W}$ 
6DR8	=EBF83

6DS4 t	S=9mA/V $\mu=62$ $R_i=6.9k$ $P_a=\text{max.}1W$	
6DS8	=ECH83	
6DT5 P	S= 6.2 mA/V $P_a=\text{max.}9W$	
6DT6 p	S=8mA/V $V_{g1}=-18V$ $R_i=150k$ $P_a=\text{max.}1.5W$	
6DT8 tt	S=55mA/V $\mu=60$ $R_i=10.9k$ $P_a=\text{max.}2\times 25W$	
6DV4 t	S=11.5mA/V $\mu=35$ $R_i=3.1k$ $P_a=\text{max.}1W$	
6DW4 R	BOOSTER $V_a=nv_p=\text{max.}5kV$ $I_{a_p}=\text{max.}1300mA$	
6DW5 P	S=5.5mA/V $R_i=15k$ $P_a=\text{max.}11W$	

6DX8 tp	$S_T = 10.4 \text{ mA/V}$ $R_i = 130\text{k}$ $\mu g_2 g_1 = 36$ $P_a = \text{max. } 4 \text{ W}$	
6DY5	=EL82	
6DZ4 t	$S = 6.7 \text{ mA/V}$ $\mu = 14$ $R_i = 2\text{k}$ $P_a = \text{max. } 2.3 \text{ W}$	
6DZ7 PP	$S = 11.3 \text{ mA/V}$ $V_{g1} = -7.3 \text{ V}$ $R_i = 30\text{k}$	
6E5 ti		
6E6 TT		
6E7 p	$S = 1.6 \text{ mA/V}$ $V_{g1} = -3...-50 \text{ V}$ $R_i = 800\text{k}$ $P_a = \text{max. } 2.25 \text{ W}$	

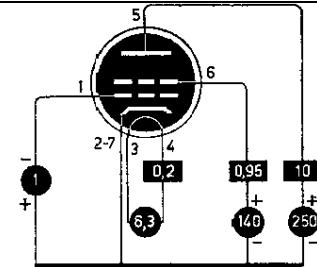
6E8

tH

**6EA5**

q

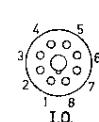
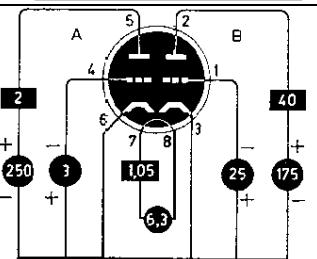
$S = 8 \text{ mA/V}$
 $R_i = 150 \text{ k}\Omega$
 $P_a = \text{max. } 3,25 \text{ W}$

**6EA7**

tt

A
 $S = 2,2 \text{ mA/V}$
 $\mu = 66$
 $R_i = 30 \text{ k}\Omega$
 $P_a = \text{max. } 1 \text{ W}$

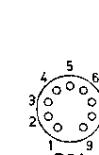
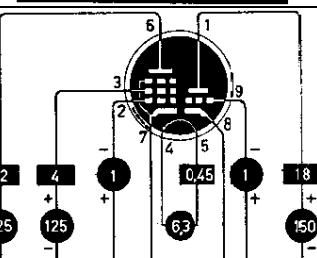
B
 $S = 6 \text{ mA/V}$
 $\mu = 5,5$
 $R_i = 920 \text{ }\mu\text{A}$
 $P_a = \text{max. } 10 \text{ W}$

**6EA8**

tp

$S_p = 6,4 \text{ mA/V}$
 $R_i = 80 \text{ k}\Omega$
 $P_a = \text{max. } 3,1 \text{ W}$

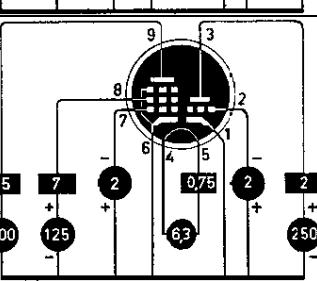
$S_T = 8,5 \text{ mA/V}$
 $R_i = 5 \text{ k}\Omega$
 $\mu = 40$
 $P_a = \text{max. } 3 \text{ W}$

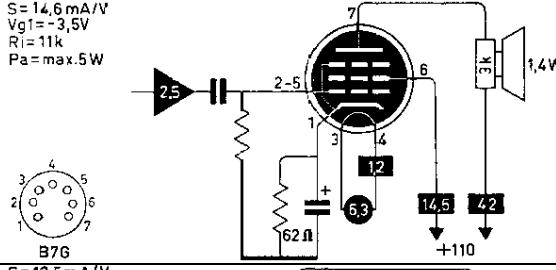
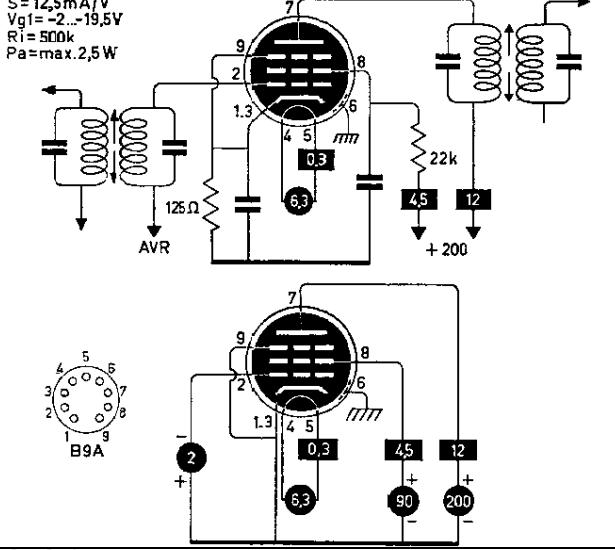
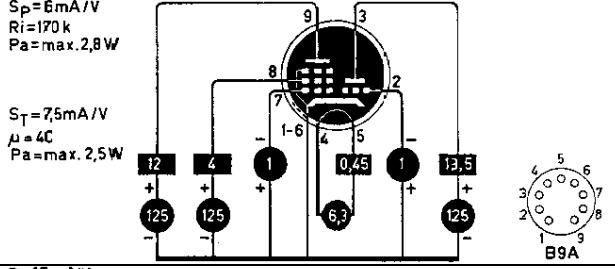
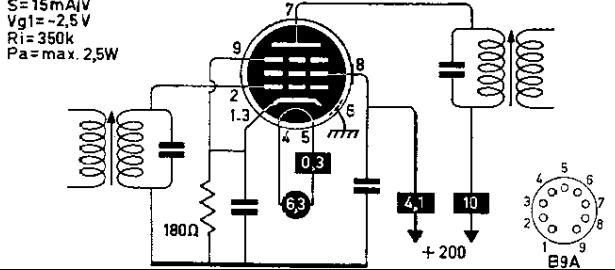
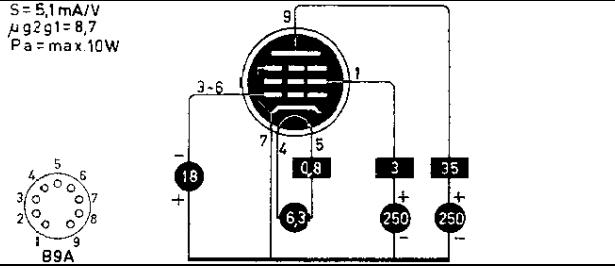
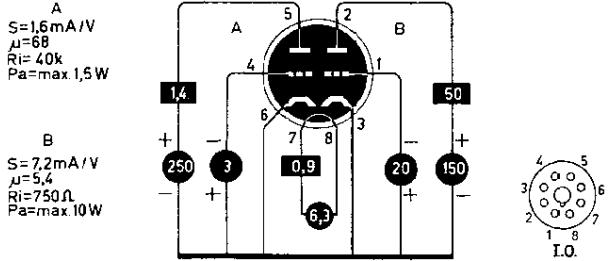
**6EB8**

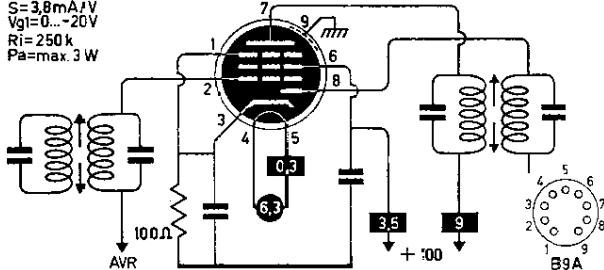
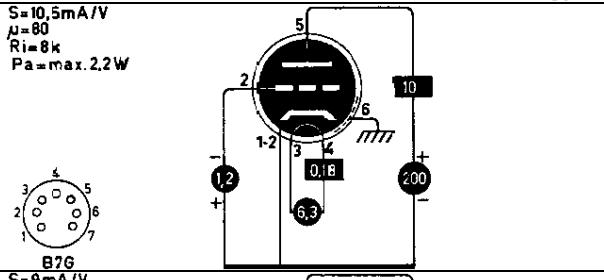
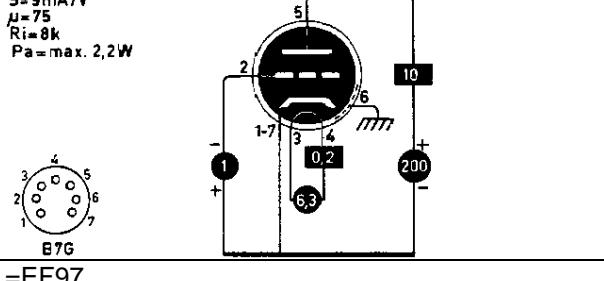
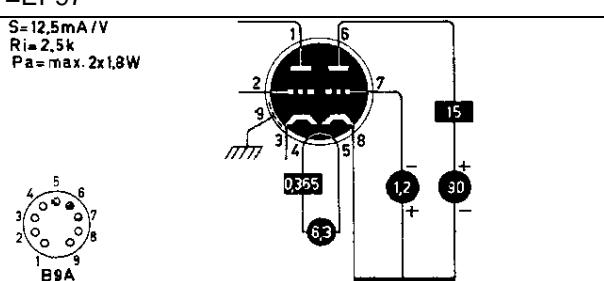
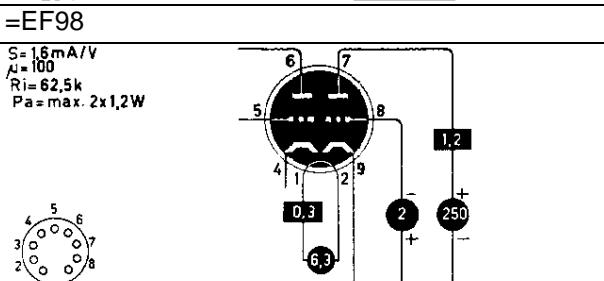
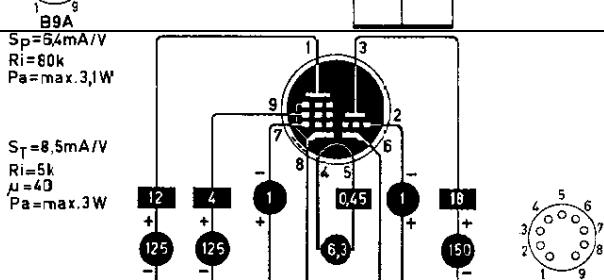
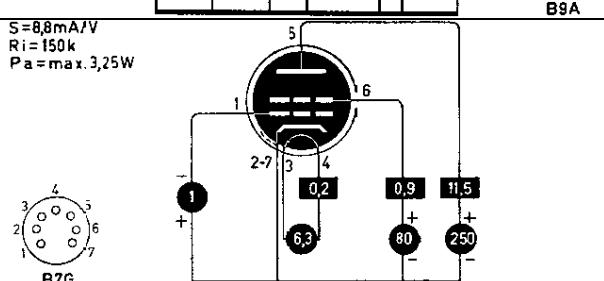
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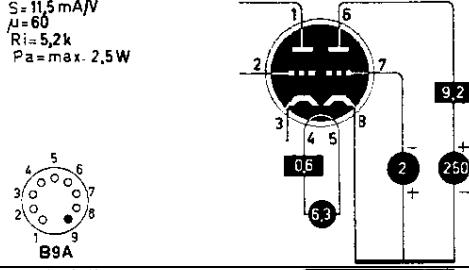
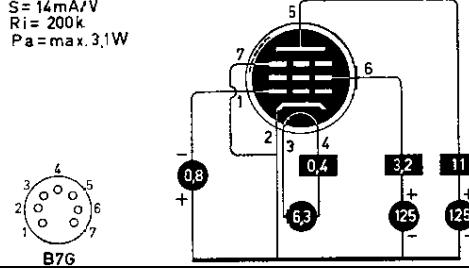
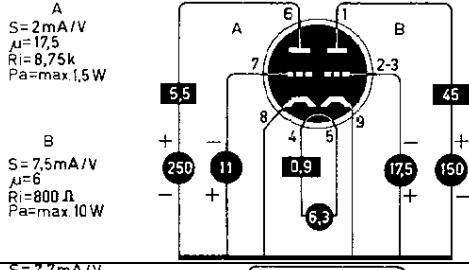
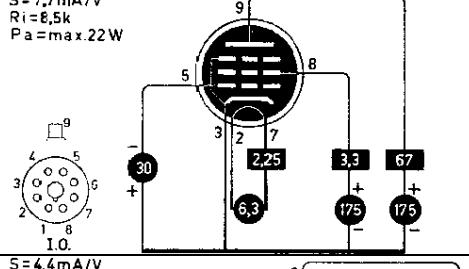
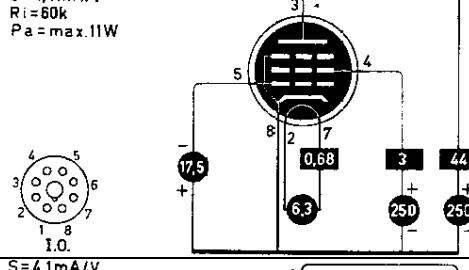
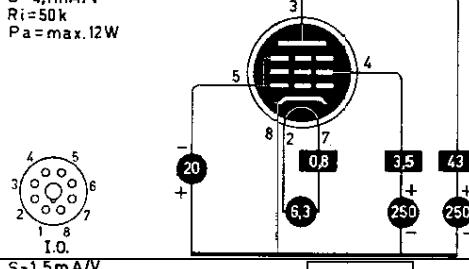
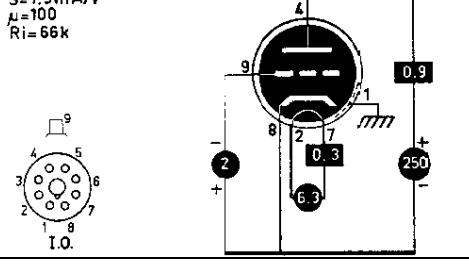
$S_p = 12,5 \text{ mA/V}$
 $R_i = 75 \text{ k}\Omega$
 $P_a = \text{max. } 5 \text{ W}$

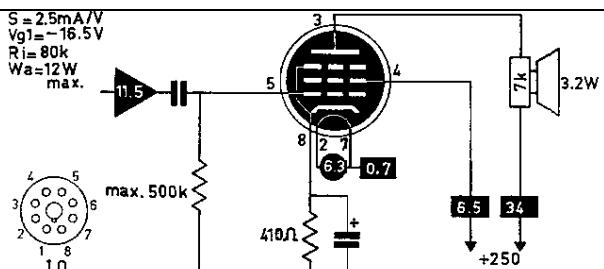
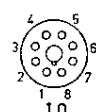
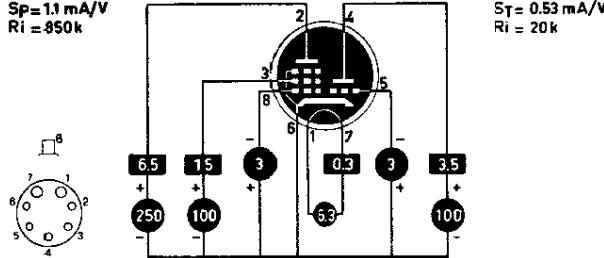
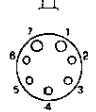
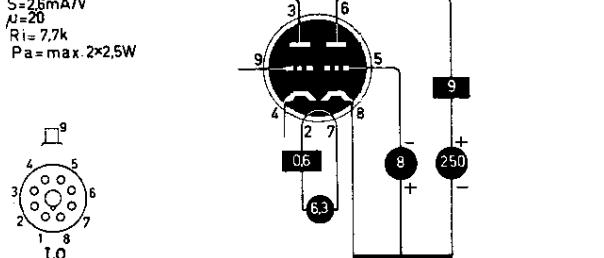
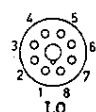
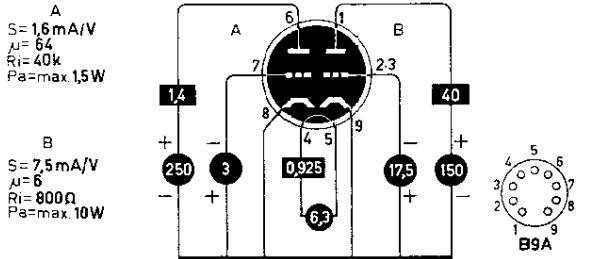
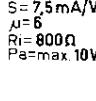
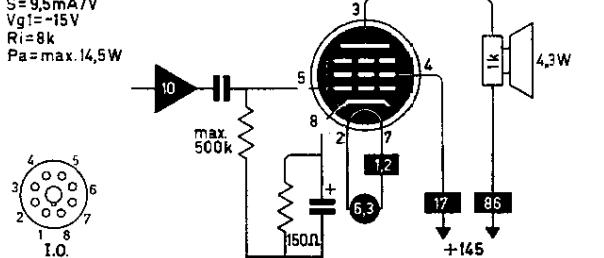
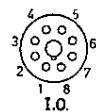
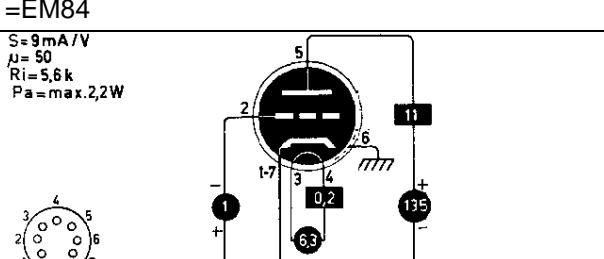
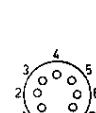
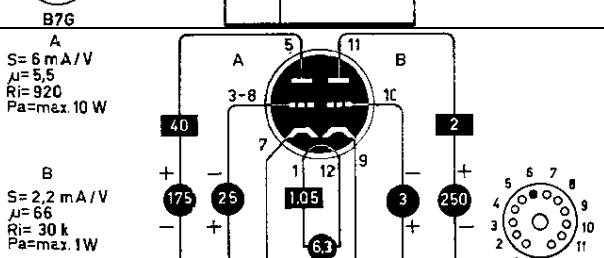
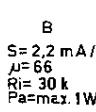
$S_T = 2,7 \text{ mA/V}$
 $R_i = 37 \text{ k}\Omega$
 $\mu = 100$
 $P_a = \text{max. } 1 \text{ W}$

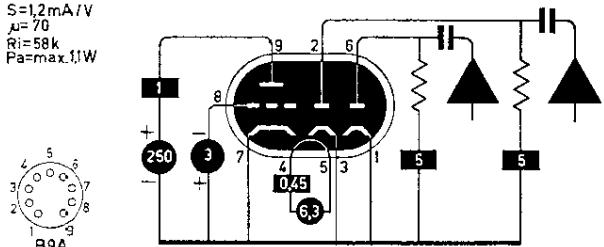
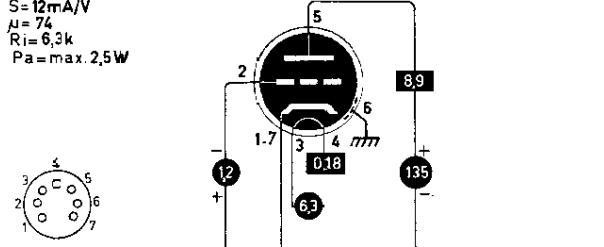
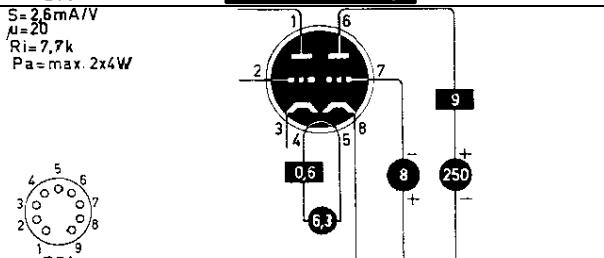
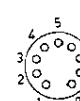
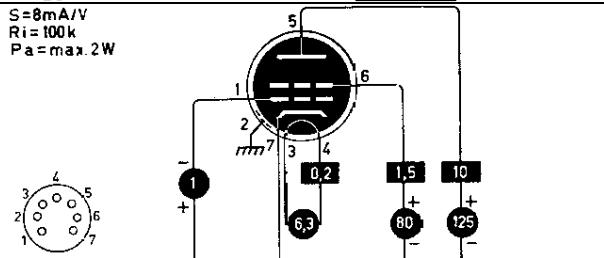
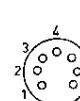
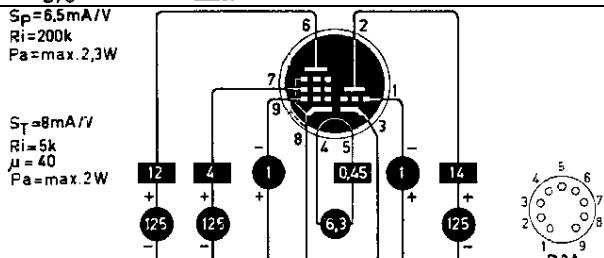
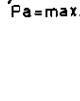
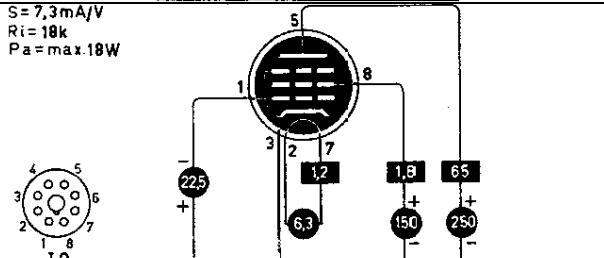
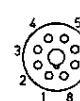
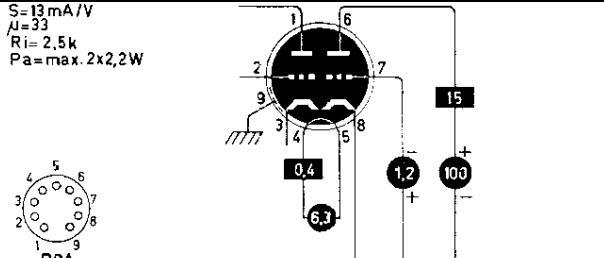
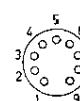


6EH5 P	<p>S=14,6 mA/V Vg1=-3,5V Ri=11k Pa=max.5W</p>  <p>B7G</p>
6EH7 p	<p>S=12,5 mA/V Vg1=-2...-19V Ri=500k Pa=max.2,5 W</p>  <p>B9A</p>
6EH8 tp	<p>S_p=6mA/V Ri=170 k Pa=max.2,8 W</p> <p>S_T=7,5mA/V $\mu=4C$ Pa=max. 2,5W</p>  <p>B9A</p>
6EJ7 p	<p>S=15 mA/V Vg1=-2,5 V Ri=350k Pa=max. 2,5W</p>  <p>B9A</p>
6EM5 P	<p>S=5,1 mA/V $\mu g_2 g_1 = 8,7$ Pa=max.10W</p>  <p>B9A</p>
6EM7 tt	<p>A S=1,6 mA/V $\mu=58$ Ri=40k Pa=max.1,5 W</p> <p>B S=7,2 mA/V $\mu=5,4$ Ri=750Ω Pa=max.10W</p>  <p>I.O.</p>

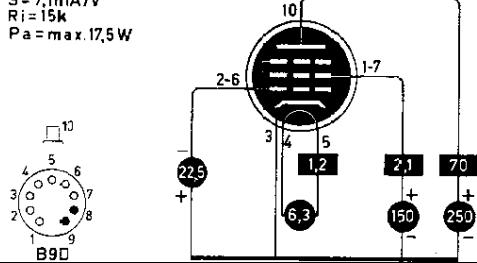
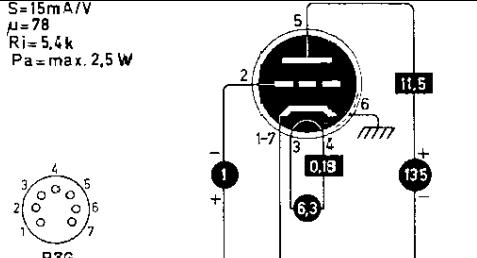
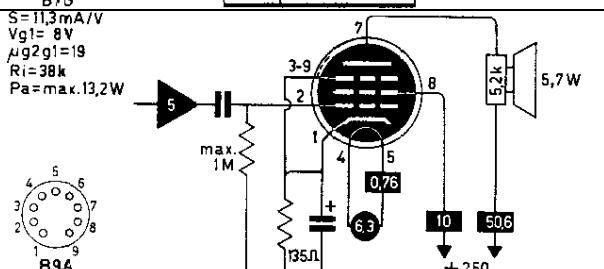
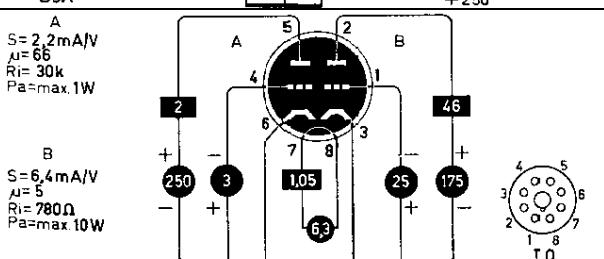
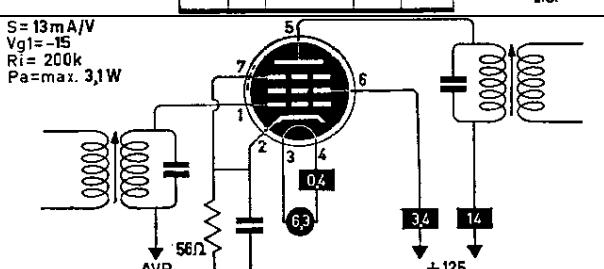
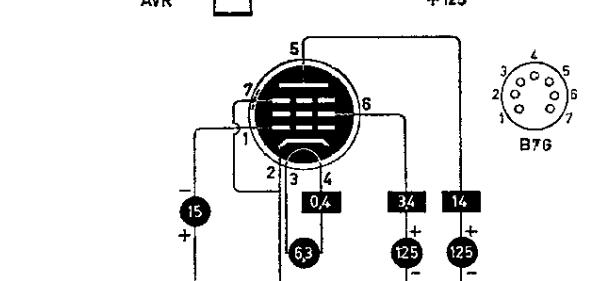
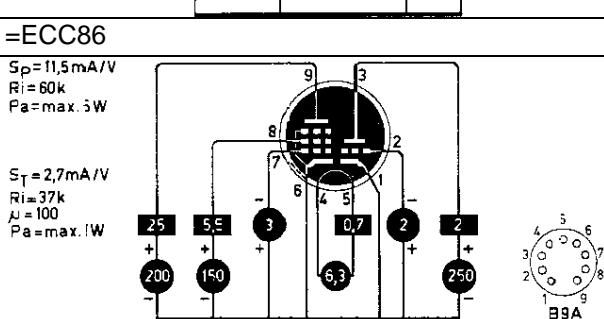
6EQ7 dp	S=3,8mA/V $V_{G1}=0 \dots 20V$ $R_i=250k$ $P_a=\text{max. } 3W$	
6ER5 t	S=10,5mA/V $\mu=80$ $R_i=8k$ $P_a=\text{max. } 2,2W$	
6ES5 t	S=9mA/V $\mu=75$ $R_i=8k$ $P_a=\text{max. } 2,2W$	
6ES6	=EF97	
6ES8 tt	S=12,5mA/V $R_i=2,5k$ $P_a=\text{max. } 2x1,8W$	
6ET6	=EF98	
6EU7 tt	S=1,6mA/V $\mu=100$ $R_i=62,5k$ $P_a=\text{max. } 2x1,2W$	
6EU8 tp	$S_p=54mA/V$ $R_i=80k$ $P_a=\text{max. } 3,W$	
6EV5 q	S=8,5mA/V $R_i=5k$ $\mu=40$ $P_a=\text{max. } 3W$	

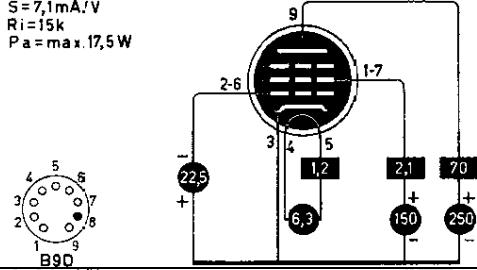
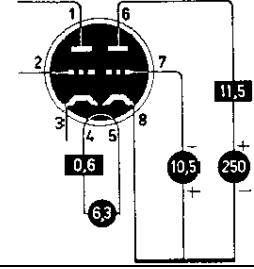
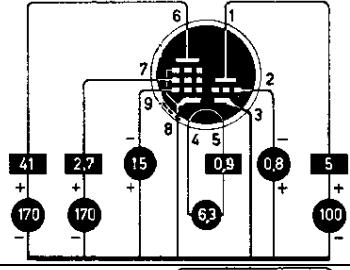
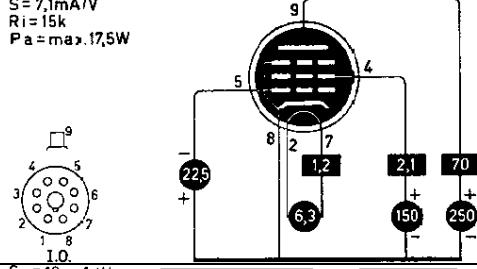
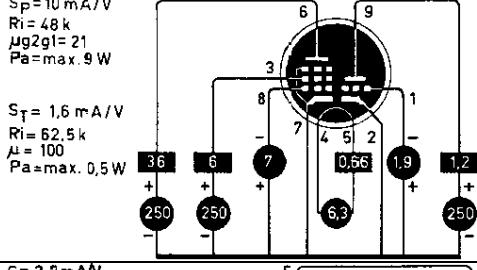
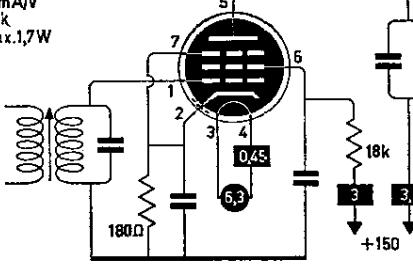
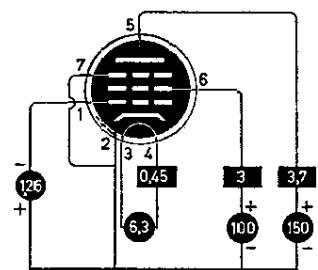
6EV7 tt	S=11,5 mA/V $\mu=60$ $R_i=5,2\text{k}$ $P_a=\text{max. } 2,5\text{W}$	
6EW6 p	S=14 mA/V $R_i=200\text{k}$ $P_a=\text{max. } 3,1\text{W}$	
6EW7 tt	A S=2 mA/V $\mu=17,5$ $R_i=8,75\text{k}$ $P_a=\text{max. } 1,5\text{W}$ B S=7,5 mA/V $\mu=6$ $R_i=800\text{\Omega}$ $P_a=\text{max. } 10\text{W}$	
6EX6 P	S=7,7 mA/V $R_i=8,5\text{k}$ $P_a=\text{max. } 22\text{W}$	
6EY6 P	S=4,4 mA/V $R_i=60\text{k}$ $P_a=\text{max. } 11\text{W}$	
6EZ5 P	S=4,1 mA/V $R_i=50\text{k}$ $P_a=\text{max. } 12\text{W}$	
6F5 t	S=1,5 mA/V $\mu=100$ $R_i=66\text{k}$	

6F6 P	S = 2.5 mA/V $V_g = -16.5 V$ $R_i = 80 k\Omega$ $P_a = 12 W$ max.  
6F7 tp	$S_p = 1.1 \text{ mA/V}$ $R_i = 850 k\Omega$  
6F8 tt	$S = 2.6 \text{ mA/V}$ $\mu = 20$ $R_i = 7.7 k\Omega$ $P_a = \text{max. } 2 \times 2.5 W$  
6FC7	=ECC89
6FD7 tt	A $S = 1.6 \text{ mA/V}$ $\mu = 64$ $R_i = 40 k\Omega$ $P_a = \text{max. } 1.5 W$ B $S = 7.5 \text{ mA/V}$ $\mu = 6$ $R_i = 800 \Omega$ $P_a = \text{max. } 10 W$  
6FE5 P	$S = 9.5 \text{ mA/V}$ $V_g = -15 V$ $R_i = 8 k\Omega$ $P_a = \text{max. } 14.5 W$  
6FG6	=EM84
6FH5 t	$S = 9 \text{ mA/V}$ $\mu = 50$ $R_i = 5.6 k\Omega$ $P_a = \text{max. } 2.2 W$  
6FM7 tt	A $S = 6 \text{ mA/V}$ $\mu = 5.5$ $R_i = 920 \Omega$ $P_a = \text{max. } 10 W$ B $S = 2.2 \text{ mA/V}$ $\mu = 66$ $R_i = 30 k\Omega$ $P_a = \text{max. } 1 W$  

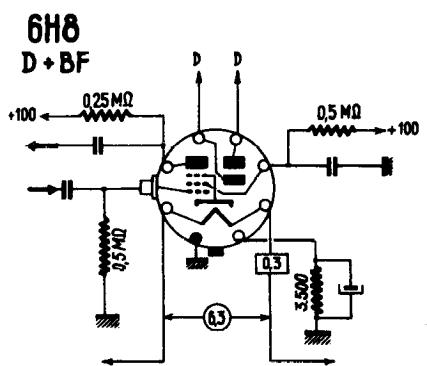
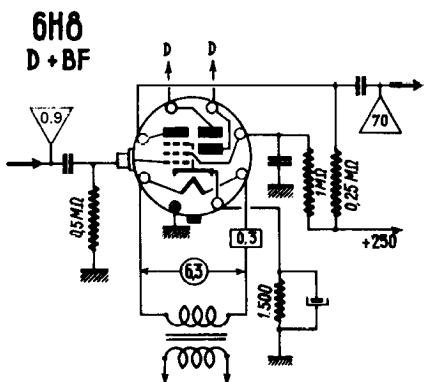
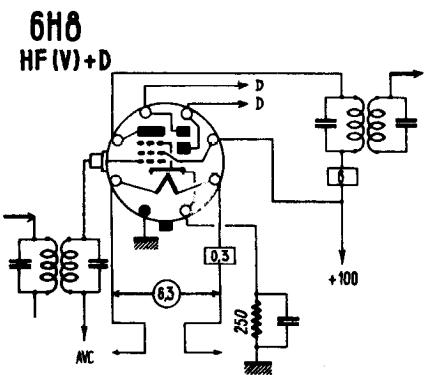
6FM8 ddt	S=1,2mA/V $\mu=70$ $R_i=58k$ $P_a=\text{max. } 1,1W$  
6FQ5A t	S=12mA/V $\mu=74$ $R_i=6,3k$ $P_a=\text{max. } 2,5W$  
6FQ7 tt	S=2,6mA/V $\mu=20$ $R_i=7,7k$ $P_a=\text{max. } 2x4W$  
6FV6 q	S=8mA/V $R_i=100k$ $P_a=\text{max. } 2W$  
6FV8 tp	$S_p=6,5mA/V$ $R_i=200k$ $P_a=\text{max. } 2,3W$ $S_T=8mA/V$ $R_i=5k$ $\mu=40$ $P_a=\text{max. } 2W$  
6FW5 P	S= 7,3mA/V $R_i=18k$ $P_a=\text{max. } 18W$  
6FW8 tt	S=13mA/V $\mu=33$ $R_i=2,5k$ $P_a=\text{max. } 2x2,2W$  
6FY5	=EC97

6G5 ti	
6G5G ti	
6G6 P	<p>$S = 2.3 \text{ mA/V}$ $V_{g1} = -9\text{V}$ $R_i = 175\text{k}$ $W_a = \text{max. } 2.75\text{W}$</p>
6GB5 P	<p>$P_a = \text{max. } 17\text{W}$</p>
6GC5 P	<p>$S = 8 \text{ mA/V}$ $V_{g1} = -9\text{V}$ $\mu g_2 g_1 = 28$ $R_i = 28\text{k}$ $P_a = \text{max. } 12\text{W}$</p>
6GF7 tt	<p>A $S = 1.6 \text{ mA/V}$ $\mu = 64$ $R_i = 40\text{k}$ $P_a = \text{max. } 1.5\text{W}$</p> <p>B $S = 7.2 \text{ mA/V}$ $\mu = 5.4$ $R_i = 750\Omega$ $P_a = \text{max. } 11\text{W}$</p>
6GH8 tp	<p>$S_p = 7.5 \text{ mA/V}$ $R_i = 200\text{k}$ $P_a = \text{max. } 2.5\text{W}$</p> <p>$S_T = 8.5 \text{ mA/V}$ $R_i = 5.4\text{k}$ $\mu = 46$ $P_a = \text{max. } 2.5\text{W}$</p>

6GJ5 P	S=7,1mA/V R _i =15k P _a =max.17,5W	
6GK5 t	S=15mA/V $\mu=78$ $\mu g_2 g_1=19$ R _i =5,4k P _a =max. 2,5 W	
6GK6 P	S=11,3mA/V V _{g1} =8V $\mu g_2 g_1=19$ R _i =38k P _a =max.13,2W	
6GL7 tt	A S=2,2mA/V $\mu=66$ R _i =30k P _a =max.1W B S=6,4mA/V $\mu=5$ R _i =780 Ω P _a =max.10W	
6GM6 p	S=13mA/V V _{g1} =-15 R _i =200k P _a =max. 3,1W	
6GM8	=ECC86	
6GN8 tp	S _p =11,5mA/V R _i =60k P _a =max.5W S _T =2,7mA/V R _i =37k $\mu=100$ P _a =max.1W	

6GT5 P	$S = 7,1 \text{ mA/V}$ $R_i = 15 \text{ k}$ $P_a = \text{max. } 17,5 \text{ W}$	
6GU7 tt	$S = 3,1 \text{ mA/V}$ $\mu = 17$ $R_i = 5,5 \text{ k}$ $P_a = \text{max. } 3 \text{ W}$	
6GV8 tp	$S_P = 7,5 \text{ mA/V}$ $R_i = 25 \text{ k}$ $\mu_{9g1} = 7$ $P_a = \text{max. } 7 \text{ W}$ $S_T = 6,5 \text{ mA/V}$ $R_i = 7,6 \text{ k}$ $\mu = 50$ $P_a = \text{max. } 0,5 \text{ W}$	
6GW6 P	$S = 7,1 \text{ mA/V}$ $R_i = 15 \text{ k}$ $P_a = \text{max. } 17,5 \text{ W}$	
6GW8 tp	$S_P = 10 \text{ mA/V}$ $R_i = 48 \text{ k}$ $\mu_{9g1} = 21$ $P_a = \text{max. } 9 \text{ W}$ $S_T = 1,6 \text{ mA/V}$ $R_i = 62,5 \text{ k}$ $\mu = 100$ $P_a = \text{max. } 0,5 \text{ W}$	
6GX6 p	$S = 3,7 \text{ mA/V}$ $R_i = 140 \text{ k}$ $P_a = \text{max. } 1,7 \text{ W}$	 
6GX8		=EAM86

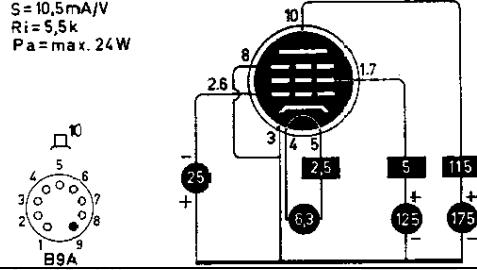
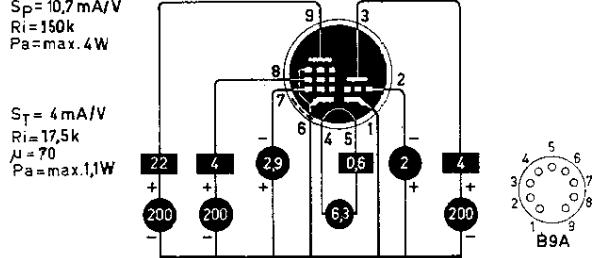
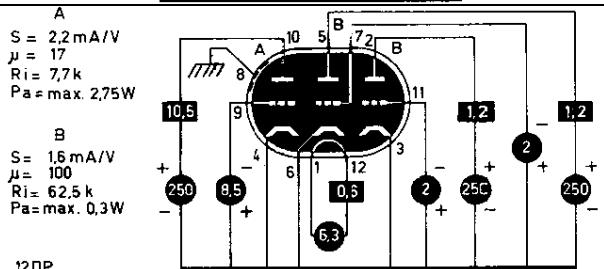
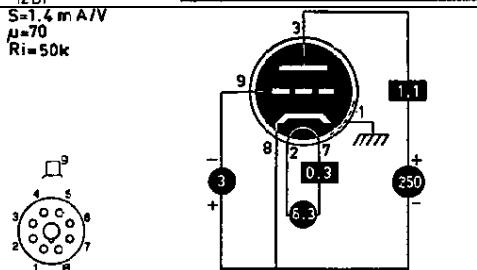
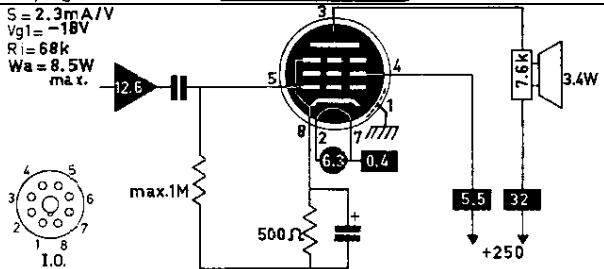
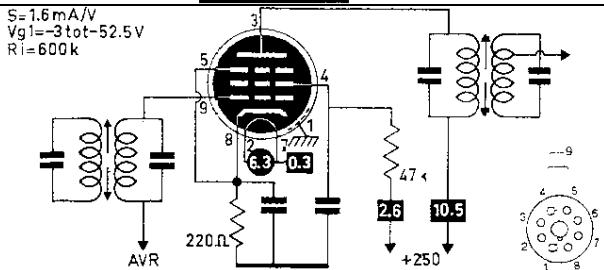
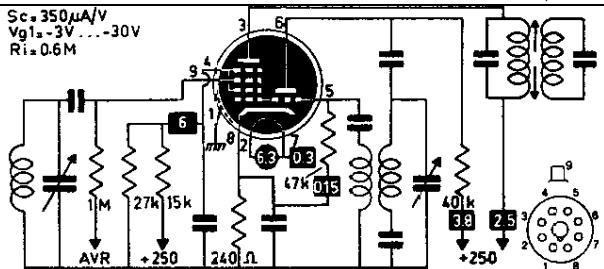
6GY6 p	<p>S=3,7 mA/V R_i=140k P_a=max. 1,7 W</p>
6GZ5 P	<p>S=8,4 mA/V V_{g1}= 5V R_i=150 k P_a=max. 4,8 W</p>
6H4 d	<p>V_d max.= 100V I_d max.= 4mA</p>
6H5 ti	<p>6H5 = 665</p> <p>V = 0, -22</p>
6H6 dd	<p>V_d max.=150V I_d max.= 8mA</p>
6H8 ddp	<p>6H8</p> <p>HF(V)+D</p> <p>S = 1,8 P = 1,2 MΩ V = -3-22</p>



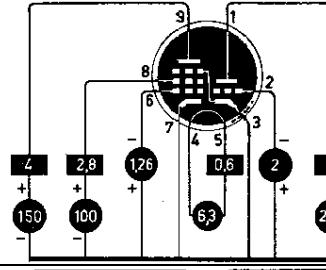
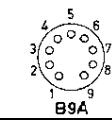
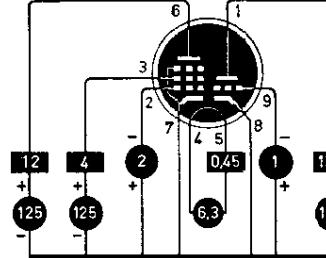
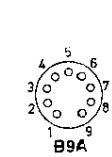
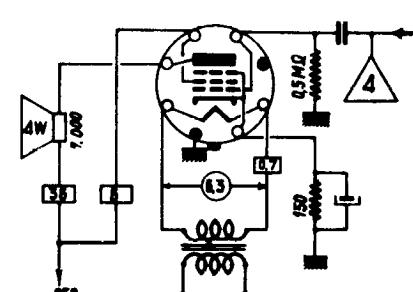
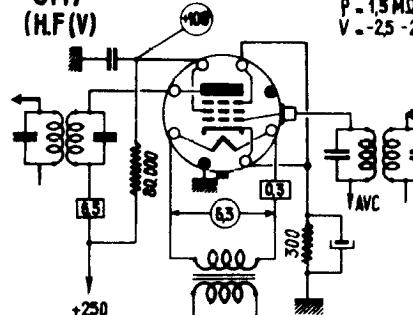
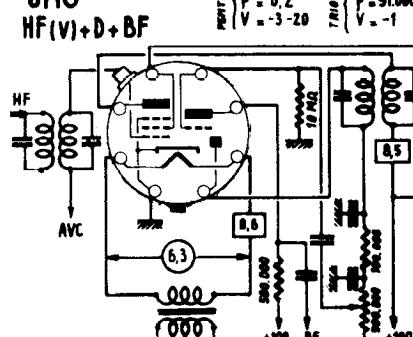
6HA5 t	S=14,5 mA/V $\mu=72$ $R_i=5k$ $P_a=\text{max.}2,6W$	
6HB6 P	S=20 mA/V $\mu g_2 g_1=33$ $R_i=24 k$ $P_a=\text{max.}10W$	
6HF8 tp	$S_p=12,5 \text{ mA/V}$ $R_i=75k$ $P_a=\text{max.}5W$	
6HG8	=ECF86	
6HM5 t	S=14,5 mA/V $\mu=72$ $R_i=5k$ $P_a=\text{max.}2,6W$	
6HR6 p	S=8,5 mA/V $V_{g1}=-2\text{...}-15V$ $R_i=500k$ $P_a=\text{max.}3W$	
6HS6 p	S=9,5 mA/V $R_i=500k$ $P_a=\text{max.}3W$	
6HU6	=EM87	

6HU8	=ELL80
6HZ6 p	<p>S = 3.4 mA/V R_i = 110 k P_a = max. 1.7 W</p>
6J10 pP	<p>A</p> <p>B</p> <p>S = 6.5 mA/V V_{g1} = -8 V $\mu g_1 g_2 =$ R_i = 100 k P_a = max. 10 W</p>
6J4 t	<p>S = 12.2 mA/V $\mu = 55$ R_i = 4.5 k P_a = max. 2.25 W</p>
6J5 t	<p>S = 2.6 mA/V $\mu = 20$ R_i = 7.7 k P_a = max. 2.5 W</p>
6J6 tt~	<p>S = 5.3 mA/V $\mu = 38$ R_i = 7.1 k P_a = max. 1.5 W</p>
6J7 p	<p>S = 1.23 mA/V R_i = 1 M</p>

6J8 tH	<p>$S_c = 290 \mu A/V$ $V_{g1} = -3V \dots -20V$ $R_i = 1.5M$</p>
6JB6 P	<p>$S = 7,1 \mu A/V$ $R_i = 15k$ $P_a = \text{max. } 17,5W$</p>
6JC6 p	<p>$S = 15 \mu A/V$ $R_i = 180k$ $P_a = \text{max. } 2,5W$</p>
6JC8 tp	<p>$S_p = 5,5 \mu A/V$ $R_i = 300k$ $P_a = \text{max. } 2,3W$</p> <p>$S_T = 6,5 \mu A/V$ $R_i = 5k$ $\mu = 40$ $P_a = \text{max. } 1,7W$</p>
6JD6 p	<p>$S = 14 \mu A/V$ $R_i = 160k$ $P_a = \text{max. } 2,5W$</p>

6JE6 P	S = 10,5 mA/V R _i = 5,5 k P _a = max. 24 W	
6JV8 tp	S _T = 10,7 mA/V R _i = 150 k P _a = max. 4 W	
6K11 ttt	A S = 2,2 mA/V μ = 17 R _i = 7,7 k P _a = max. 2,75 W B S = 1,6 mA/V μ = 100 R _i = 62,5 k P _a = max. 0,3 W	
6K5 t	S = 1,4 mA/V μ = 70 R _i = 50 k	
6K6 P	S = 2,3 mA/V V _{g1} = -18 V R _i = 68 k W _a = 8,5 W max.	
6K7 p	S = 1,6 mA/V V _{g1} = -3 tot -52,5 V R _i = 600 k	
6K8 th	S _c = 350 μ A/V V _{g1} = -3 V ... -30 V R _i = 0,6 M	

6KA8 tp	<p>$S_p = 4,4 \text{ mA/V}$ $R_i = 100\text{k}$ $P_a = \text{max. } 2\text{W}$</p> <p>$S_T = 4 \text{ mA/V}$ $R_i = 17,5\text{k}$ $\mu = 70$ $P_a = \text{max. } 1,1\text{W}$</p>
6KE8 tp	<p>$S_p = 12 \text{ mA/V}$ $R_i = 125\text{k}$ $P_a = \text{max. } 2\text{W}$</p> <p>$S_T = 8 \text{ mA/V}$ $R_i = 5\text{k}$ $\mu = 40$ $P_a = \text{max. } 2\text{W}$</p>
6KL8 dp	<p>$S = 4,3 \text{ mA/V}$ $R_i = 550\text{k}$ $P_a = \text{max. } 3\text{W}$</p>
6KV8 tp	<p>$S_p = 23 \text{ mA/V}$ $R_i = 75\text{k}$ $P_a = \text{max. } 5\text{W}$</p> <p>$S_T = 4 \text{ mA/V}$ $R_i = 17\text{k}$ $\mu = 70$ $P_a = \text{max. } 1\text{W}$</p>
6L5 t	<p>$S = 1,9 \text{ mA/V}$ $\mu = 17$ $R_i = 9\text{k}$ $P_a = \text{max. } 2\text{W}$</p>
6L6 P	<p>$S = 6 \text{ mA/V}$ $V_g = -14\text{V}$ $R_i = 22,5\text{k}$ $P_a = \text{max. } 18,5\text{W}$</p>
6L7 H	<p>$S_c = 350 \mu\text{A/V}$ $V_g = -5 \dots -45\text{V}$ $R_i = 1\text{M}$</p>

6LC8 tp	<p>$S_p = 4,4 \text{ mA/V}$ $R_i = 100\text{k}$ $P_a = \text{max. } 2\text{W}$</p> <p>$S_T = 4 \text{ mA/V}$ $R_i = 17,5 \text{ k}$ $\mu = 70$ $P_a = \text{max. } 1\text{W}$</p>  
6LM8 tp	<p>$S_p = 6 \text{ mA/V}$ $R_i = 150\text{k}$ $P_a = \text{max. } 2,5\text{W}$</p> <p>$S_T = 8,5 \text{ mA/V}$ $R_i = 5,4 \text{ k}$ $\mu = 46$ $P_a = \text{max. } 2,5\text{W}$</p>  
6M6 P	<p>6M6 (P)</p> <p>$S = 9,5$ $P = 50.000$ $V = -6$</p> 
6M7 p	<p>6M7 (H.F(V))</p> <p>$S = 2,8$ $P = 1,5 \text{ M}\Omega$ $V = -2,5 - 26$</p> 
6M8 dtp	<p>6M8 HF(V)+D+BF</p> <p>MOSFET $\left\{ \begin{array}{l} S = 1,9 \\ P = 0,2 \\ V = -3 - 20 \end{array} \right.$ TRIODE $\left\{ \begin{array}{l} S = 1,1 \\ P = 91.000 \\ V = -1 \end{array} \right.$</p> 
6N3	= EY82

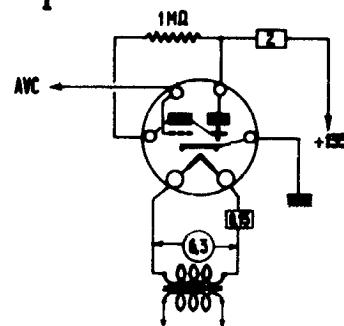
6N5

ti

6N5

I

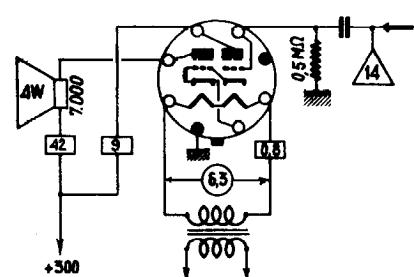
V = 0 - 15,5

**6N6**

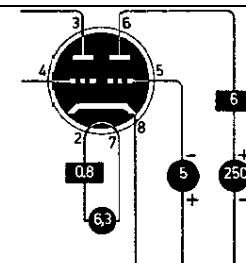
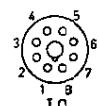
tT

6N6

P

S = 2,4
P = 24.000
V = 0**6N7**

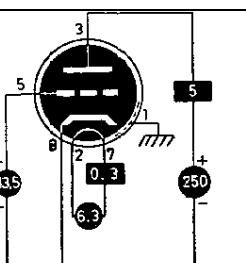
tt

S = 31 mA/V
 $\mu = 35$
 $R_i = 11,3 k\Omega$
 $P_a = \text{max. } 1 W$ **6N8**

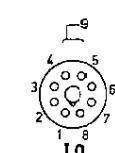
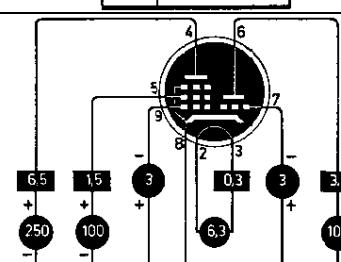
=EBF80

6P5

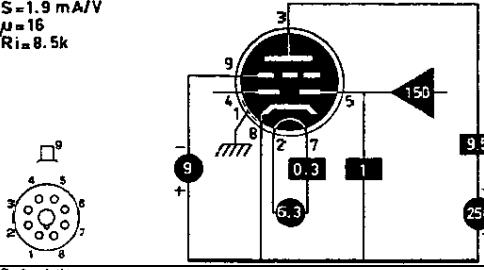
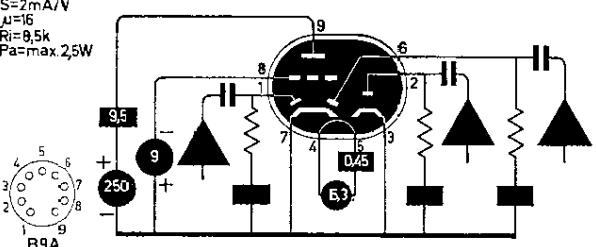
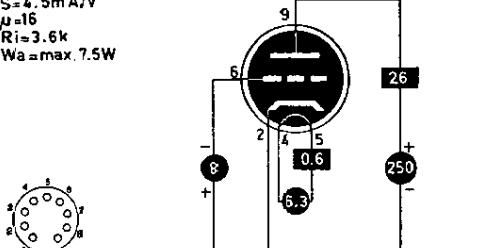
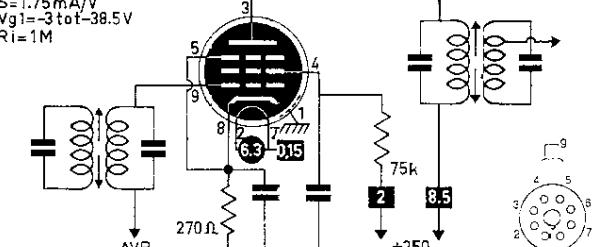
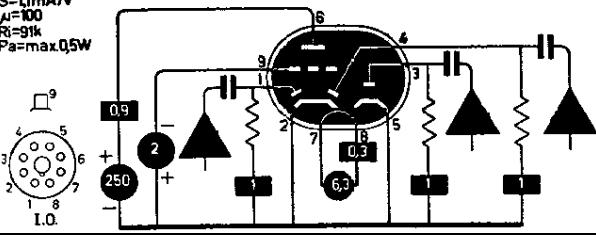
t

S = 1,4 mA/V
 $\mu = 13,8$
 $R_i = 9,5 k\Omega$ **6P7**

tp

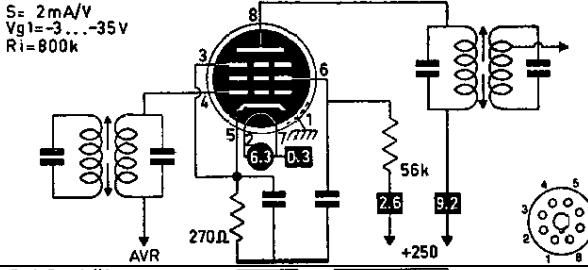
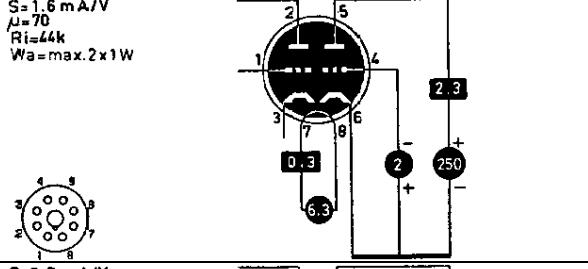
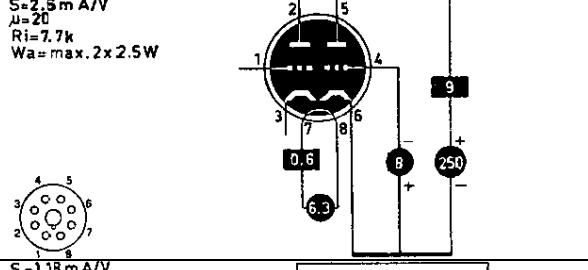
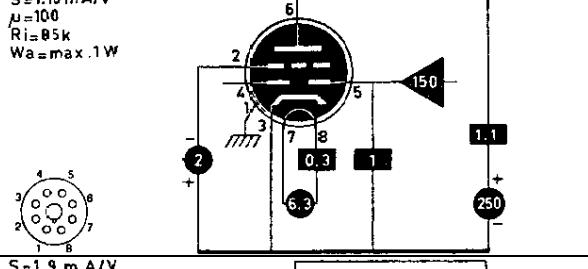
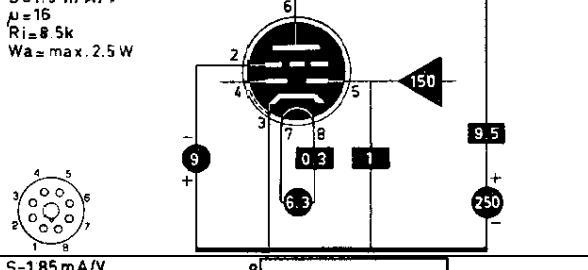
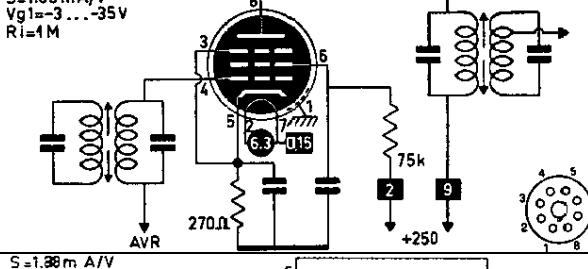
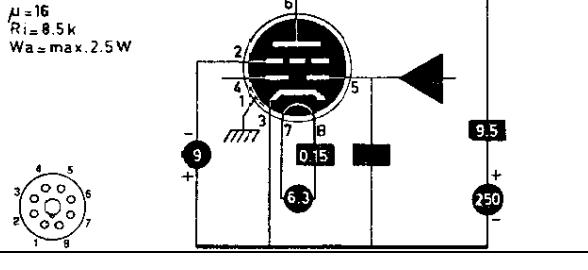
S_p = 1,1 mA/V
 $R_i = 850 k\Omega$
 $P_a = \text{max. } 2 W$ S_T = 0,53 mA/V
 $R_i = 16,2 k\Omega$
 $\mu = 8,5$
 $P_a = \text{max. } 0,5 W$ 

6P8 th	<p>$S_c = 650 \mu A/V$ $V_{g1} = -3 V$ $R_i = 0.7 M\Omega$</p>
6Q11 ttt	<p>A $S = 2.2 \text{ mA/V}$ $\mu = 17$ $R_i = 7.7 k\Omega$ $P_a = \text{max. } 2.75 W$</p> <p>B $S = 1.6 \text{ mA/V}$ $\mu = 100$ $R_i = 62.5 k\Omega$ $P_a = \text{max. } 0.3 W$</p> <p>12DP</p>
6Q4	=EC80
6Q6 dt	
6Q7 ddt	<p>$S = 1.2 \text{ mA/V}$ $\mu = 70$ $R_i = 58 k\Omega$ $P_a = \text{max. } 1 W$</p>
6R3	=EY81
6R4	=EC81
6R6 p	

6R7 ddt	$S=1.9 \text{ mA/V}$ $\mu=16$ $R_i=8.5k$	
6R8 dddt	$S=2 \text{ mA/V}$ $\mu=16$ $R_i=8.5k$ $P_a=\text{max. } 2.5W$	
6S2	EY86	
6S2A	EY87	
6S4 t	$S=4.5 \text{ mA/V}$ $\mu=16$ $R_i=3.6k$ $W_a=\text{max. } 7.5W$	
6S6 p	6S6 MF(V)	$S = 4$ $P = 0.35 \text{ M}\Omega$ $V = -2 - 25$
6S7 p	$S=1.75 \text{ mA/V}$ $V_{g1}=-3 \text{ to } -38.5V$ $R_i=1M$	
6S8 dddt	$S=1 \text{ mA/V}$ $\mu=100$ $R_i=91k$ $P_a=\text{max. } 0.5W$	

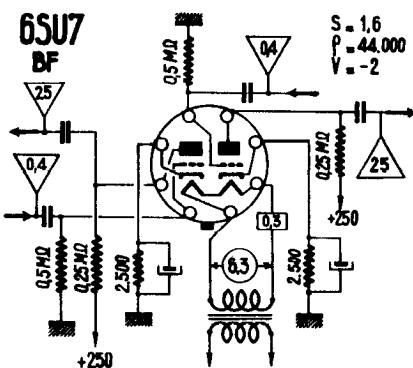
6SA7 H	<p>$S_c = 450 \mu A/V$ $V_{g3} = 0 \dots -35 V$ $R_i = 0.8 M\Omega$</p>
6SA7GT H	<p>$S_c = 400 \mu A/V$ $V_{g3} = 0 \dots -35 V$ $R_i = 800 k\Omega$</p>
6SB7 H	<p>6SB7 $C(V)$</p> <p>$S_c = 0.88$ $P = 0.8 M\Omega$ $V = 0 \dots 30$</p>
	<p>6SB7 $C(V)$</p> <p>$S = 0.88$ $P = 0.5 M\Omega$ $V = 0 \dots 30$</p>
6SB7Y	<p>$S_c = 950 \mu A/V$ $V_{g3} = 0 \dots -20 V$ $R_i = 1 M\Omega$</p>
6SC7 tt	<p>$S = 1,325 mA/V$ $\mu = 70$ $R_i = 53 k\Omega$</p>

6SD7 p	S=3.6 mA/V Vg1=-2 tot -11V Ri=1M	
6SE7 p	S=3.1 mA/V Vg1=-1.5V Ri=1M	
6SF5 t	S=1.5 mA/V $\mu=100$ Ri=66k	
6SF7 dp	S=2 mA/V Vg1=-1V tot -35V Ri=700 k	
6SG7 p	S = 4mA/V Vg1 = -2.6 ... -17.5V Ri = 1M	
6SH7 p	S=4.9 mA/V Vg1=-1V Ri=900k	
6SJ7 p	S=1.65 mA/V Ri=1M	

6SK7 p	S= 2 mA/V $V_{g1}=-3 \dots -35V$ $R_i=800k$	
6SL7 tt	S= 1.6 mA/V $\mu=70$ $R_i=44k$ $W_a=\text{max. } 2 \times 1W$	
6SN7 tt	S= 2.5 mA/V $\mu=20$ $R_i=7.7k$ $W_a=\text{max. } 2 \times 2.5W$	
6SQ7 ddt	S= 1.18 mA/V $\mu=100$ $R_i=85k$ $W_a=\text{max. } 1W$	
6SR7 ddt	S= 1.9 mA/V $\mu=16$ $R_i=8.5k$ $W_a=\text{max. } 2.5W$	
6SS7 p	S= 1.85 mA/V $V_{g1}=-3 \dots -35V$ $R_i=4M$	
6ST7 ddt	S= 1.38 mA/V $\mu=16$ $R_i=8.5k$ $W_a=\text{max. } 2.5W$	

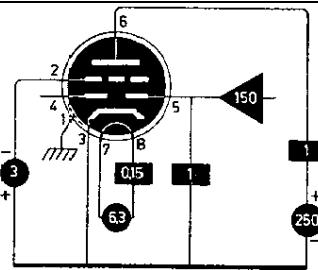
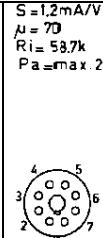
6SU7

tt

**6SZ7**

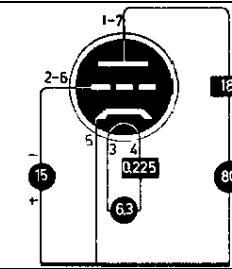
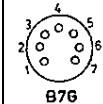
ddt

$S = 1.2 \text{ mA/V}$
 $\mu = 70$
 $R_i = 58.7 \text{ k}\Omega$
 $P_a = \text{max. } 2.5 \text{ W}$

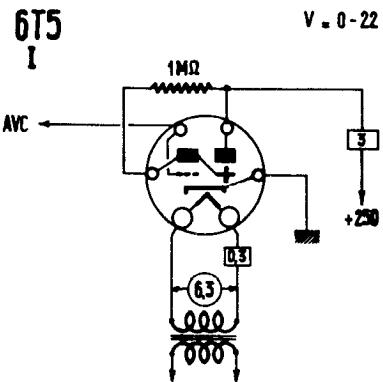
**6T4**

t

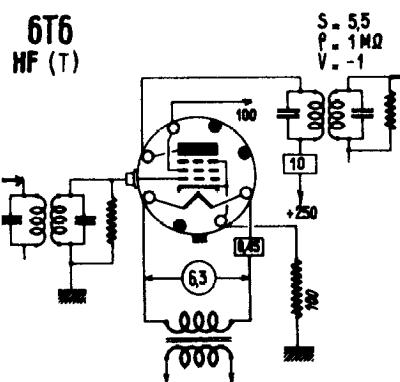
$S = 7 \text{ mA/V}$
 $\mu = 13$
 $R_i = 1.85 \text{ k}\Omega$
 $P_a = \text{max. } 3.5 \text{ W}$

**6T5**

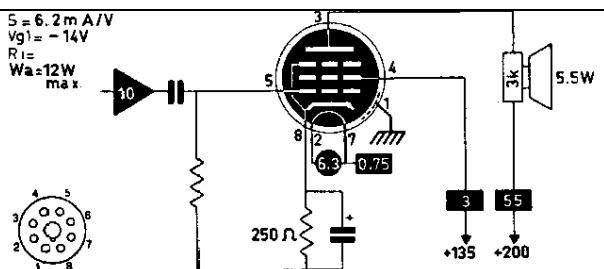
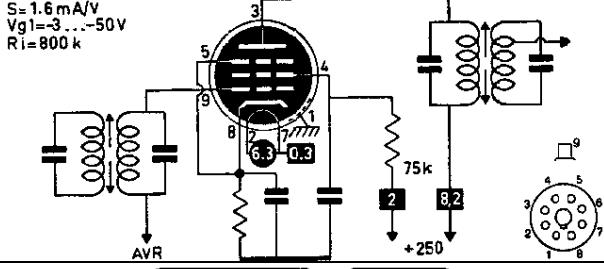
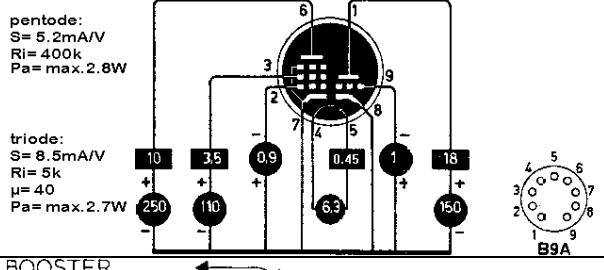
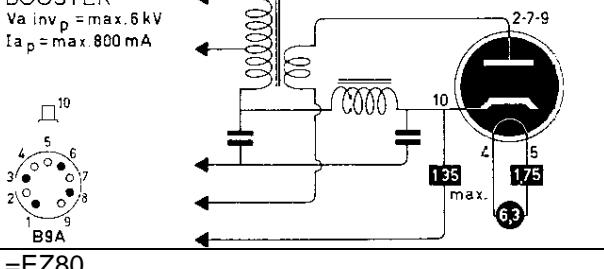
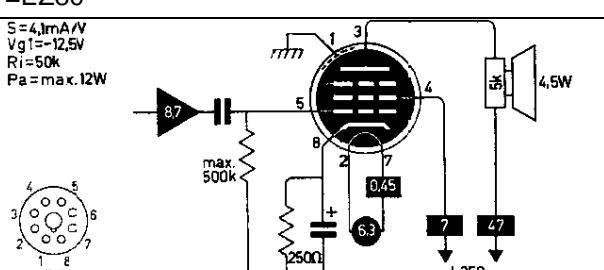
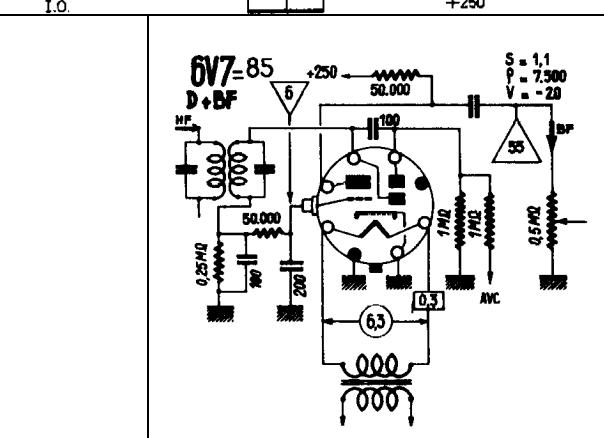
ti

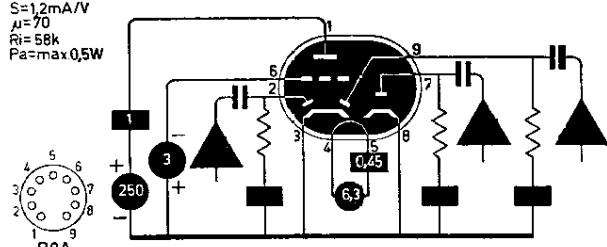
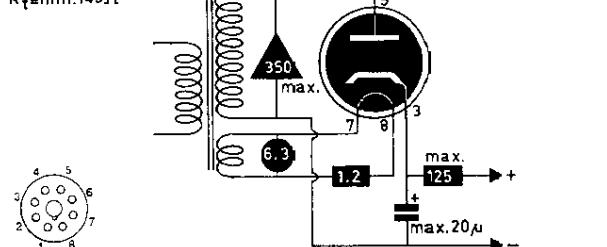
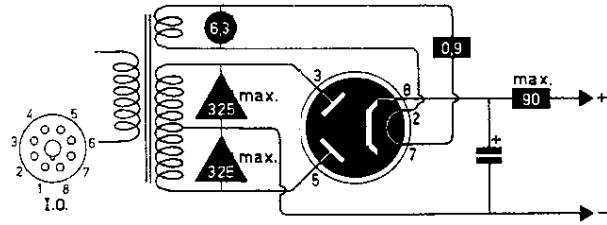
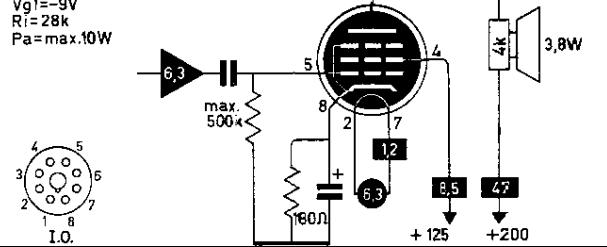
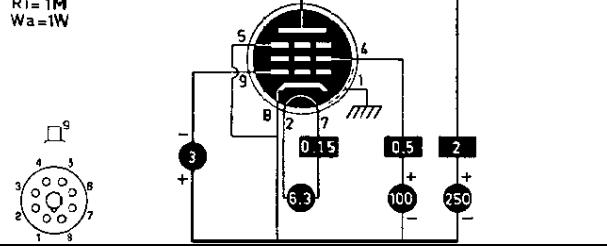
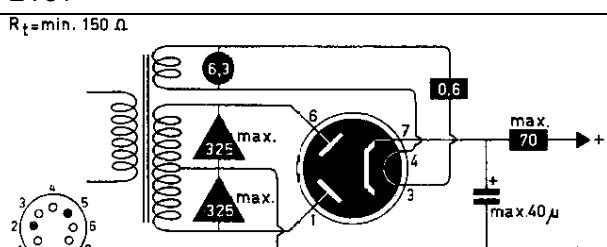
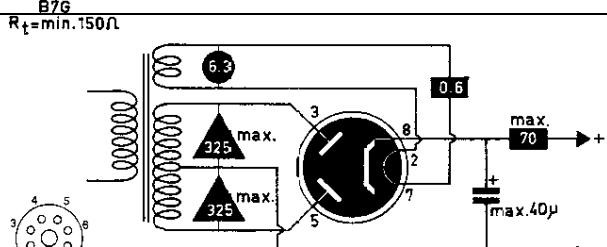
**6T6**

p



6T7 ddt	<p>$S=1,05\text{mA/V}$ $\mu=65$ $R_i=62\text{k}$ $P_a=\text{max } 0,5\text{W}$</p>
6T8 dddt	<p>$S=1,2\text{mA/V}$ $\mu=70$ $R_i=58\text{k}$ $P_a=\text{max } 1\text{W}$</p>
6TH8 th	
6U3	=EY80
6U4 R	
6U5 ti	
6U5G ti	

6U6 P	S = 6.2 mA/V $V_{g1} = -14V$ $R_i = \infty$ $P_a = 12W$ max.  
6U7 p	S = 1.6 mA/V $V_{g1} = -3...-5V$ $R_i = 800k$  
6U8 tp	pentode: S = 5.2 mA/V $R_i = 400k$ $P_a = \text{max. } 2.8W$ triode: S = 8.5 mA/V $R_i = 5k$ $\mu = 40$ $P_a = \text{max. } 2.7W$  
6V3A R	BOOSTER $V_{a\text{ inv}_p} = \text{max. } 6kV$ $I_{a_p} = \text{max. } 800mA$  
6V4	=EZ80
6V6 P	S = 4.1 mA/V $V_{g1} = -12.5V$ $R_i = 50k$ $P_a = \text{max. } 12W$  
6V7 ddt	6V7-85 D + BF $S = 1.1$ $f = 7.500$ $V = -20$  

6V8 dddt	S=1,2mA/V $\mu=70$ $R_i=58k$ $P_a=\text{max } 0,5W$	
6W4 r	$R_t=\text{min } 145\Omega$	
6W5 rr		
6W6 P	S=8mA/V $V_{G1}=-9V$ $R_i=28k$ $P_a=\text{max } 10W$	
6W7 p	S=1.23mA/V $R_i=1M$ $W_a=1W$	
6X2	EY51	
6X4 rr	$R_t=\text{min } 150 \Omega$	
6X5 rr	$R_t=\text{min } 150\Omega$	

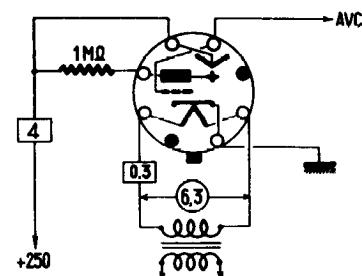
6X6

ti

6X6 - 6E5

I

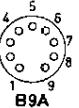
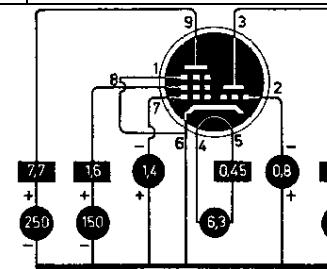
V = 0 - 8

**6X8**

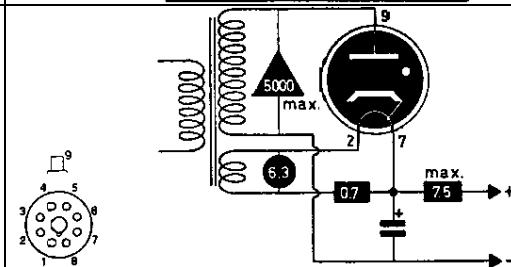
tp

$S_p = 46 \text{ mA/V}$
 $R_i = 750\text{k}$
 $P_a = \text{max. } 2\text{W}$

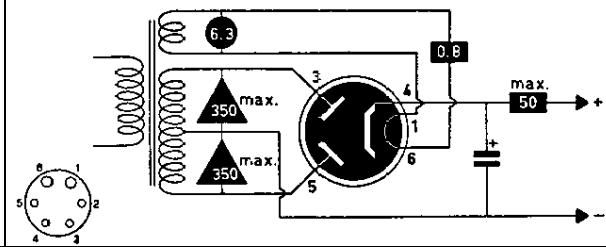
$S_T = 5.8 \text{ mA/V}$
 $R_i = 6.9\text{k}$
 $\mu = 40$
 $P_a = \text{max. } 1\text{W}$

**6Y3**

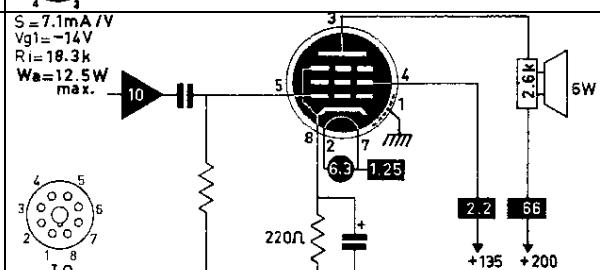
R°

**6Y5**

rr

**6Y6**

P

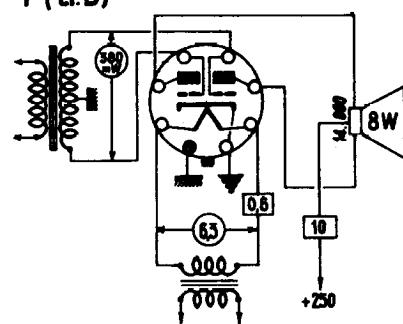
**6Y7**

TT

6Y7 = 79

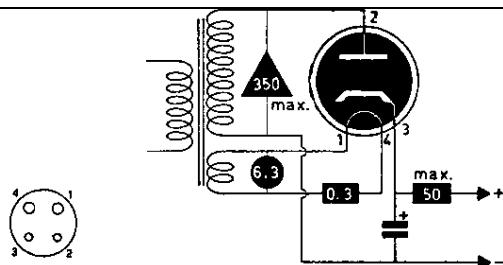
P (cl.B)

V = 0



6X3

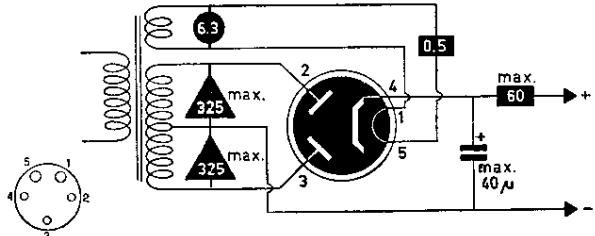
r



6Z4

rr

$R_t = \text{min. } 65\Omega$

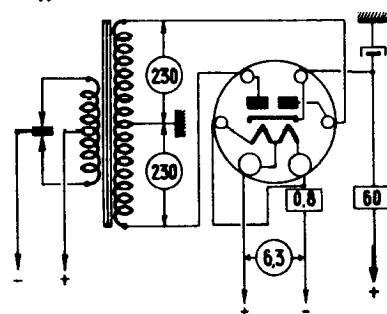


6Z5

rr

6Z5

R

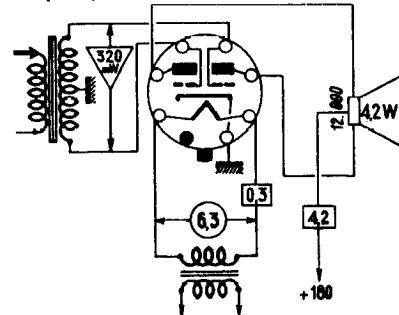


6Z7

TT

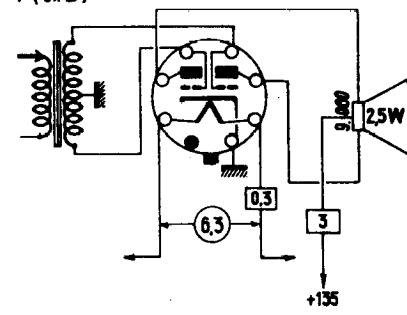
6Z7

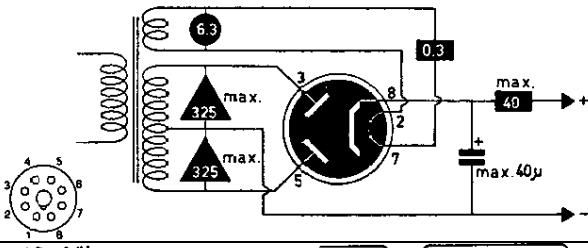
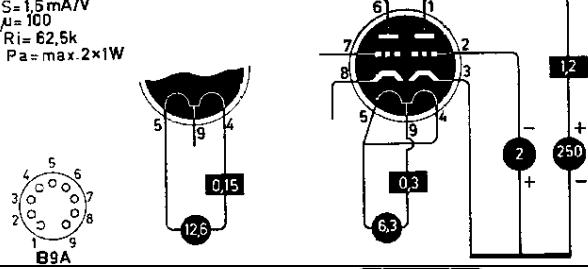
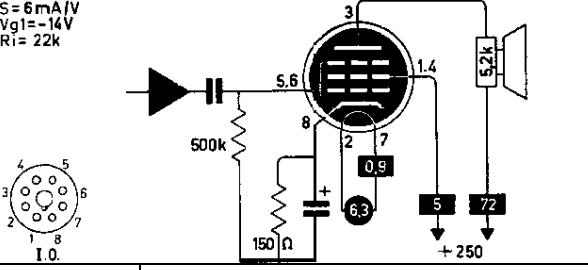
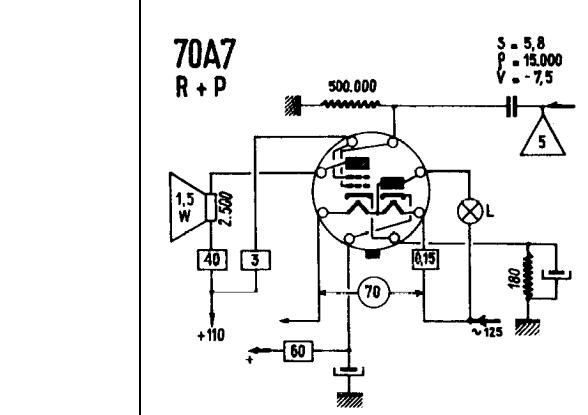
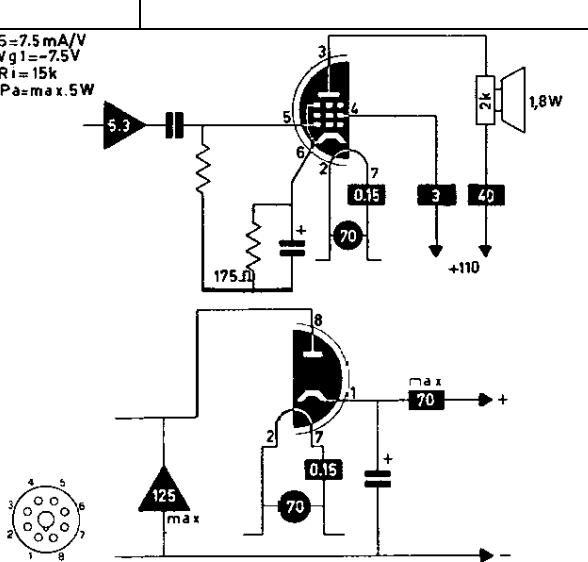
P (cl. B)

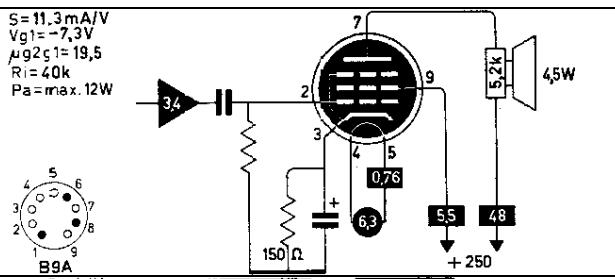
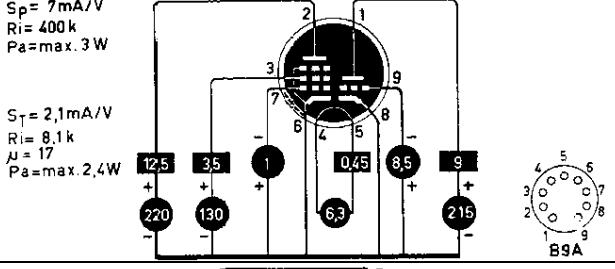
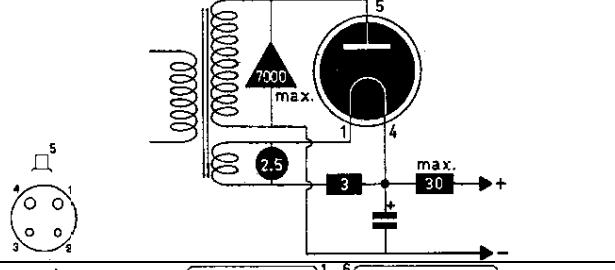
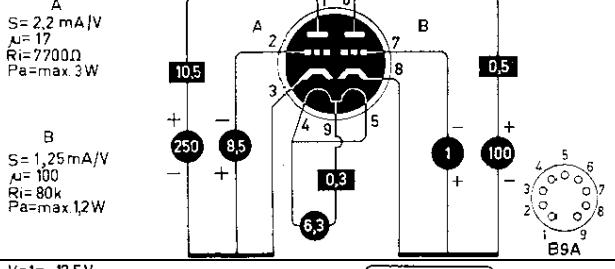
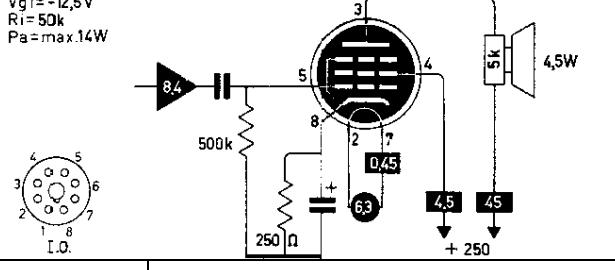
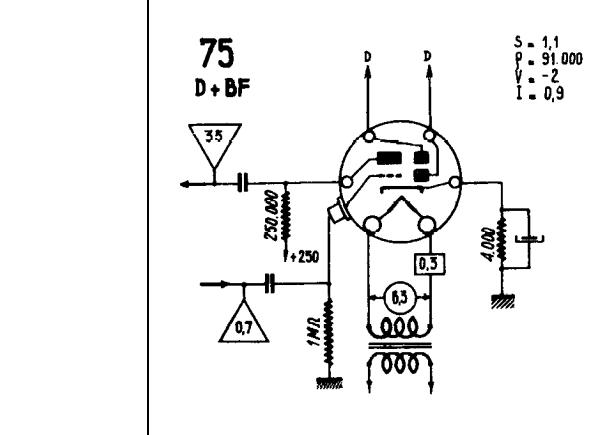


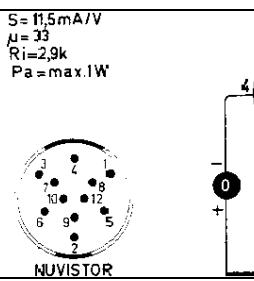
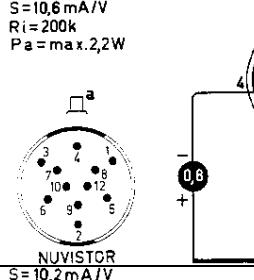
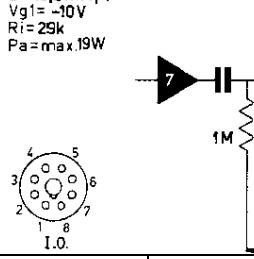
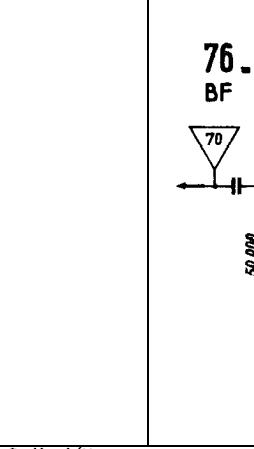
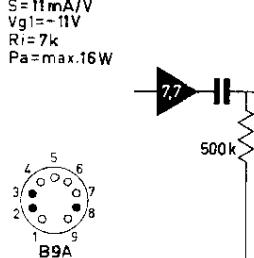
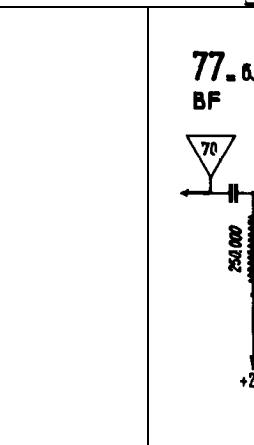
6Z7

P (cl. B)



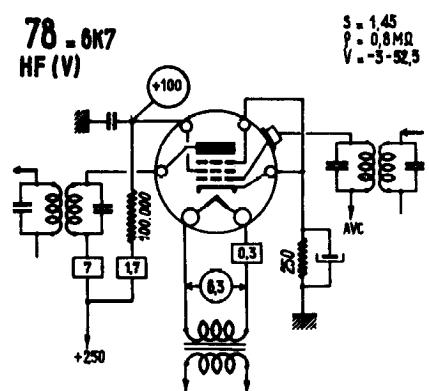
6ZY5 rr	$R_t = \text{min. } 250\Omega$ 
7025 tt	$S = 1,5 \text{ mA/V}$ $\mu = 100$ $R_i = 62,5 \text{ k}\Omega$ $P_a = \text{max. } 2 \times 1 \text{ W}$ 
7027A P	$S = 1,5 \text{ mA/V}$ $V_{g1} = -14 \text{ V}$ $R_i = 22 \text{ k}\Omega$ 
70A7 rP	70A7 $S = 5,8$ $P = 15.000$ $V = -7,5$ 
70L7 rP	$S = 7,5 \text{ mA/V}$ $V_{g1} = -7,5 \text{ V}$ $R_i = 15 \text{ k}\Omega$ $P_a = \text{max. } 5 \text{ W}$ 

7189 P	<p>S=11,3 mA/V $V_{G1}=-7,3V$ $\mu g2 \xi 1=19,5$ $R_i=40k$ $P_a=\text{max. } 12W$</p>  <p>Pinout: 1, 2, 3, 4, 5, 6, 7, 8, 9 (B9A)</p>
7199 tp	<p>$S_p=7\text{ mA/V}$ $R_i=400k$ $P_a=\text{max. } 3W$</p> <p>$S_T=2,1\text{ mA/V}$ $R_i=8,1k$ $\mu=17$ $P_a=\text{max. } 2,4W$</p>  <p>Pinout: 1, 2, 3, 4, 5, 6, 7, 8, 9 (B9A)</p>
72 r	 <p>Pinout: 1, 2, 3, 4, 5 (B9A)</p>
7247 tt	<p>A $S=2,2\text{ mA/V}$ $\mu=17$ $R_i=7700\Omega$ $P_a=\text{max. } 3W$</p> <p>B $S=1,25\text{ mA/V}$ $\mu=100$ $R_i=80k$ $P_a=\text{max. } 1,2W$</p>  <p>Pinout: 1, 2, 3, 4, 5, 6, 7, 8, 9 (B9A)</p>
7408 P	<p>$V_{G1}=-12,5V$ $R_i=50k$ $P_a=\text{max. } 14W$</p>  <p>Pinout: 1, 2, 3, 4, 5, 6, 7, 8, 9 (I.O.)</p>
75 ddt	<p>75 D + BF</p> <p>$S = 1,1$ $P = 91,000$ $V = -2$ $I = 0,9$</p> 

7586 t	<p>S=11,5 mA/V $\mu=33$ $R_i=2,9k$ $P_a=\text{max.}1W$</p>  <p>NUVISTOR</p>
7587 q	<p>S=10,6 mA/V $R_i=200k$ $P_a=\text{max.}2,2W$</p>  <p>NUVISTOR</p>
7591 P	<p>S=10,2 mA/V $V_{g1}=-10V$ $R_i=29k$ $P_a=\text{max.}19W$</p> 
76 t	<p>76 - 56 BF</p> 
7695 P	<p>S=11 mA/V $V_{g1}=-11V$ $R_i=7k$ $P_a=\text{max.}16W$</p> 
77 p	<p>77 - 6J7 BF</p> 

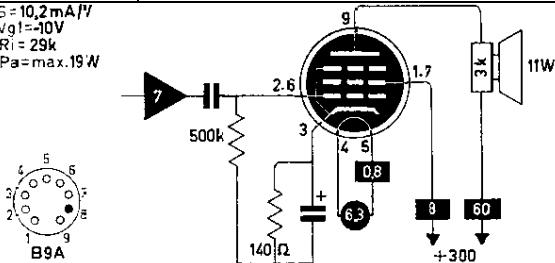
87

p

**7868**

P

$S = 10.2 \text{ mA/V}$
 $V_{g1} = -10 \text{ V}$
 $R_i = 29 \text{ k}\Omega$
 $P_a = \text{max. } 19 \text{ W}$

**7895**

t

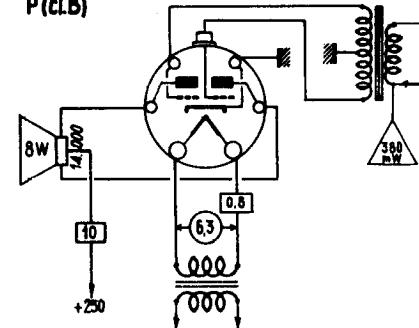
$S = 9.4 \text{ mA/V}$
 $\mu = 54$
 $R_i = 5.8 \text{ k}\Omega$
 $P_a = \text{max. } 1 \text{ W}$

**79**

TT

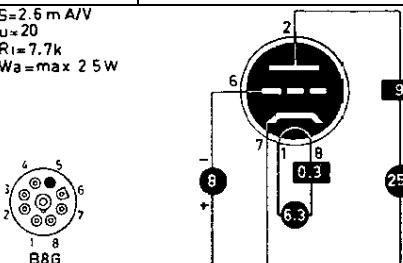
79

P (cl.B)

**7A4**

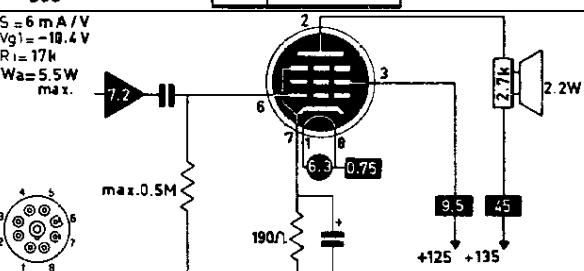
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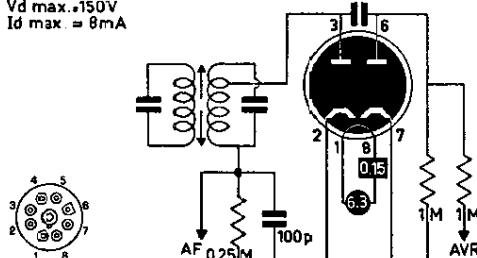
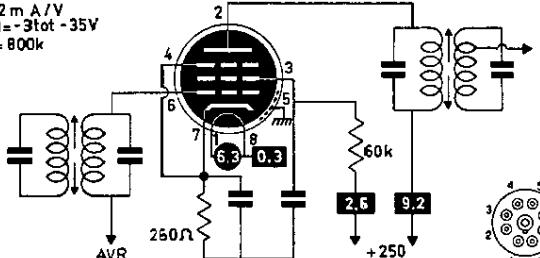
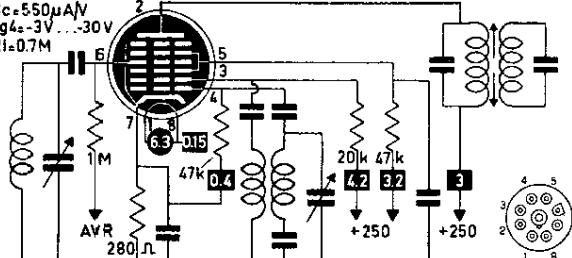
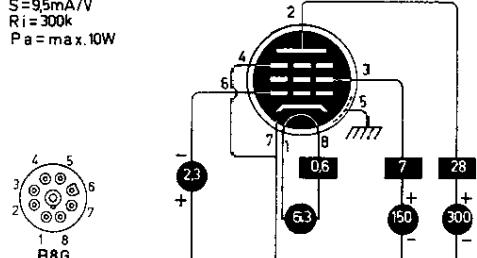
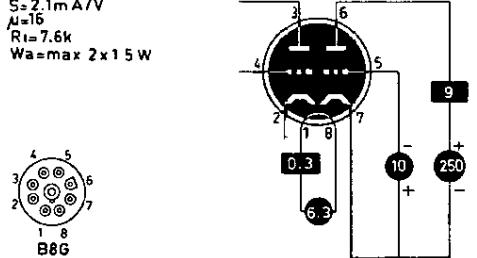
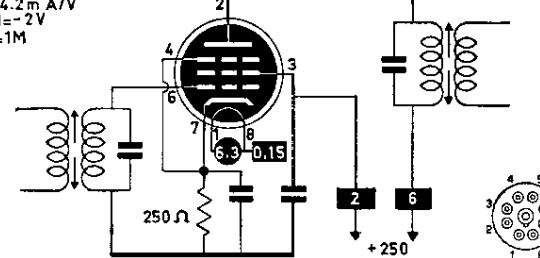
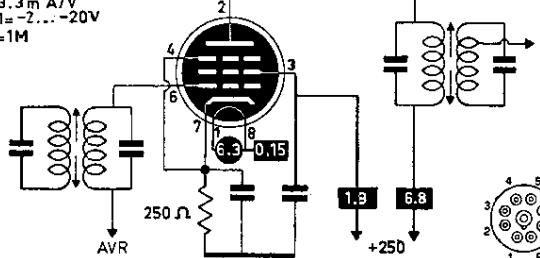
$S = 2.6 \text{ mA/V}$
 $\mu = 20$
 $R_i = 7.7 \text{ k}\Omega$
 $W_a = \text{max. } 2.5 \text{ W}$

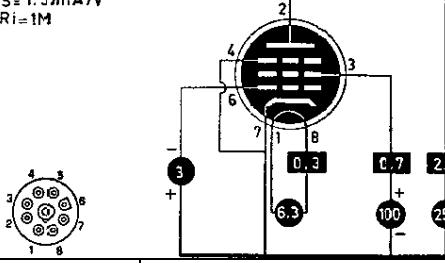
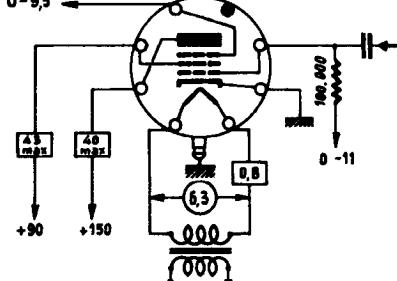
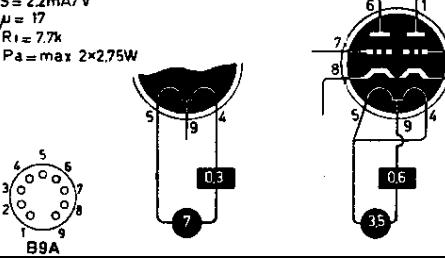
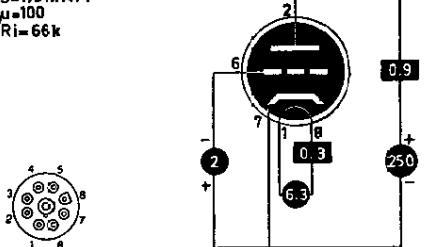
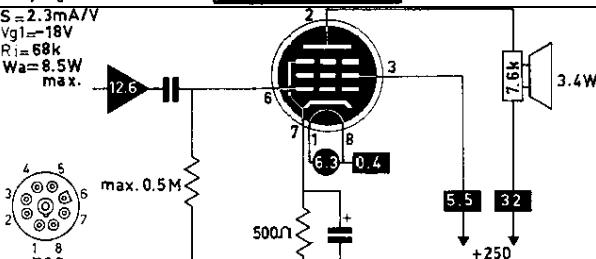
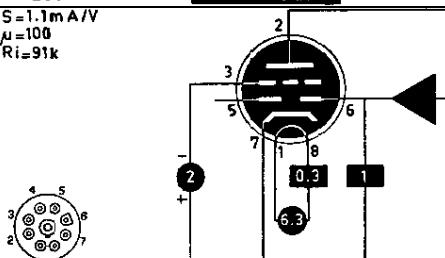
**7A5**

P

$S = 6 \text{ mA/V}$
 $V_{g1} = -10.4 \text{ V}$
 $R_i = 17 \text{ k}\Omega$
 $W_a = 5.5 \text{ W}$ max.

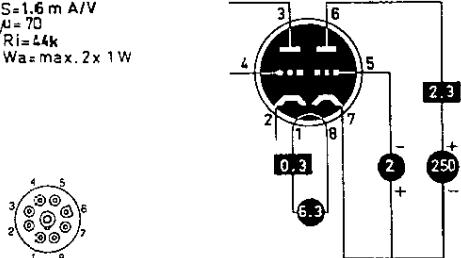
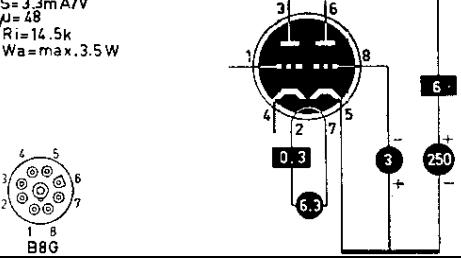
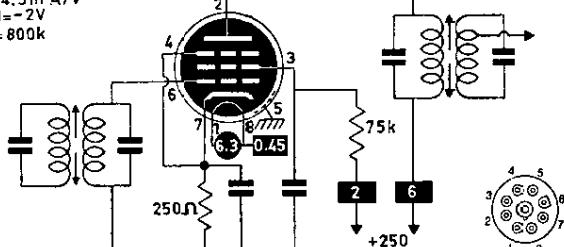
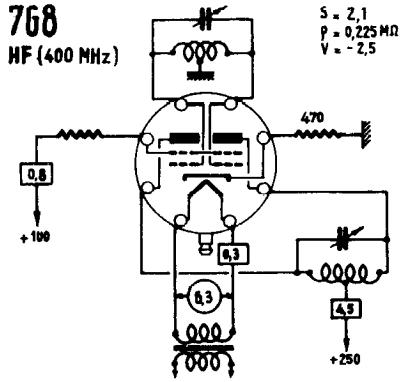
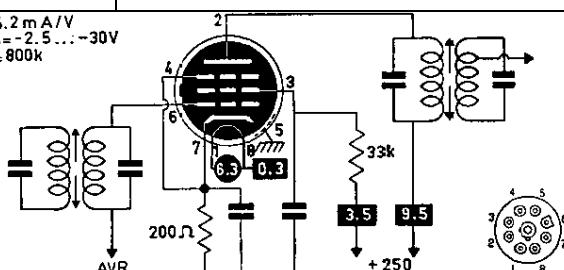
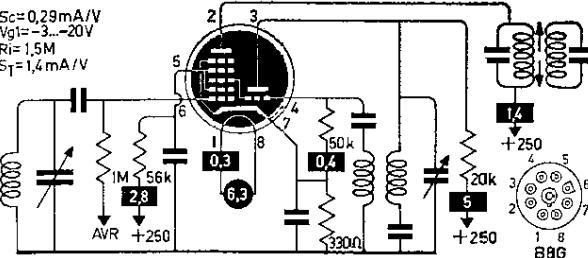


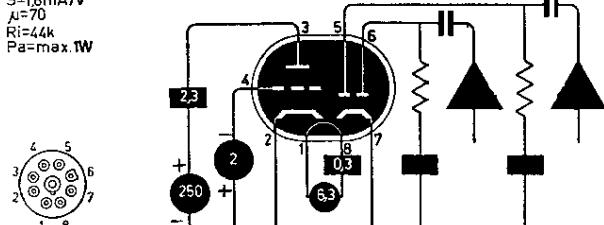
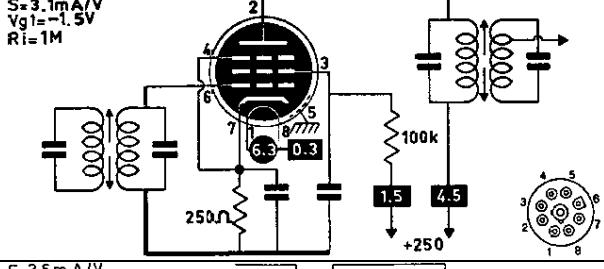
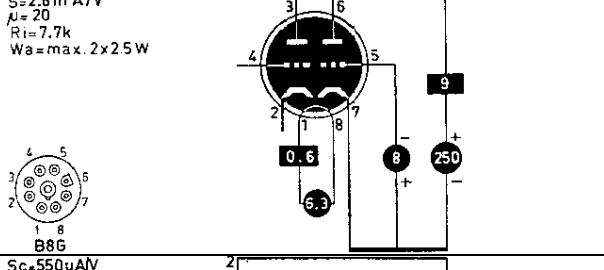
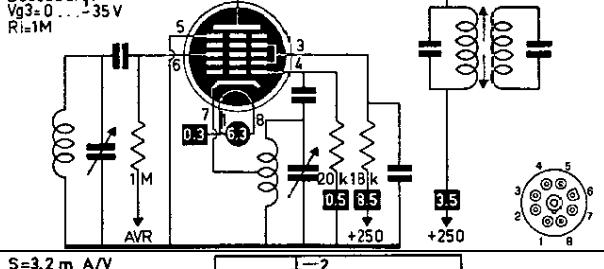
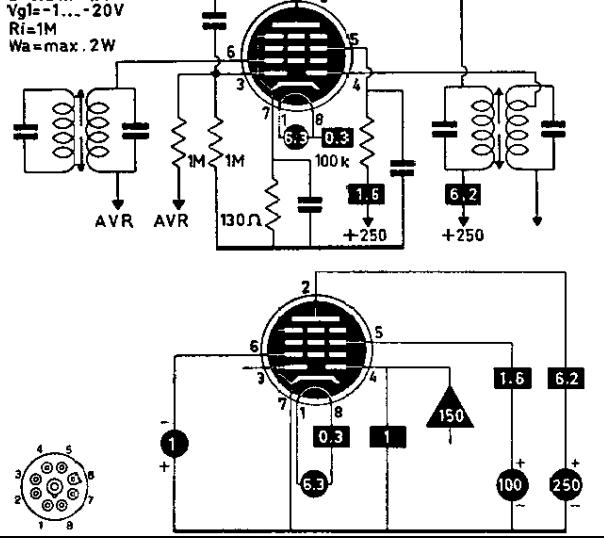
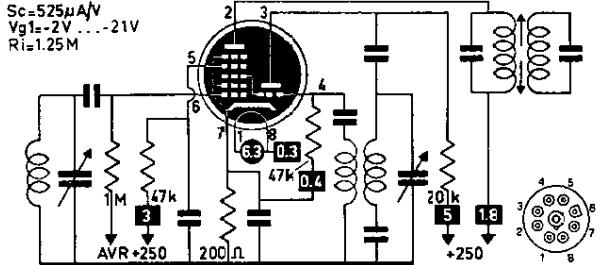
7A6 dd	Vd max. 150V Id max. = 8mA 
7A7 p	S= 2 m A/V Vg1= -3 tot -35V Ri= 800k 
7A8 o	S< 550μA/V Vg4= -3V ... -30V Ri= 0.7M 
7AD7 P	S= 95mA/V Ri= 300k Pa = max. 10W 
7AF7 tt	S= 2.1m A/V N= 16 Ri= 7.6k Wa= max 2 x 1.5 W 
7AG7 p	S= 4.2m A/V Vg1= -2 V Ri= 1M 
7AH7 p	S= 3.3 m A/V Vg1= -2 ... -20V Ri= 1M 

7AJ7 p	S = 1.5mA/V R _i = 1M	
7AK7 p	7AK7 HF (T)	S = 6.5 P = 11.5W V = 0 - 11
		
7AN7	=PCC84	
7AU7 tt	S = 2.2mA/V $\mu = 17$ R _i = 7.7k P _a = max 2x2.75W	
7B4 t	S = 1.5mA/V $\mu = 100$ R _i = 66k	
7B5 P	S = 2.3mA/V V _{g1} = 18V R _i = 68k W _a = 8.5W max.	
7B6 ddt	S = 1.1mA/V $\mu = 100$ R _i = 91k	

7B7 p	<p>$S_g = 1.75 \text{ mA/V}$ $V_{g1} = -3 \dots -40 \text{ V}$ $R_i = 750 \text{ k}$</p>
7B8 H	<p>$S_c = 550 \mu\text{A/V}$ $V_{g4} = -3 \dots -35 \text{ V}$ $R_i = 350 \text{ k}$</p>
7C4 d	<p>7C4 D (otc)</p>
7C5 P	<p>$S = 4.1 \text{ mA/V}$ $V_{g1} = -12.5 \text{ V}$ $R_i = 52 \text{ k}$ $W_a = \text{max } 12 \text{ W}$</p>
7C6 ddt	<p>$S = 1 \text{ mA/V}$ $\mu = 100$ $R_i = 100 \text{ k}$</p>
7C7 p	<p>$S = 1.3 \text{ mA/V}$ $R_i = 2 \text{ M}$ $W_a = 1 \text{ W}$</p>

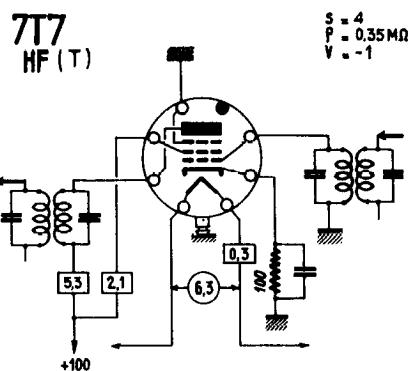
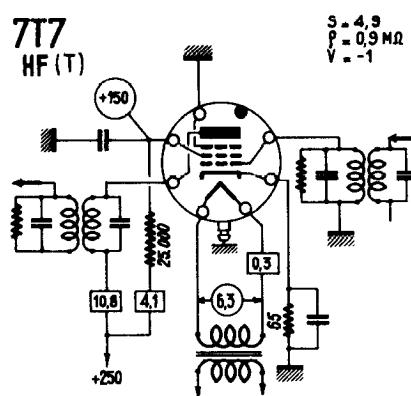
7D7 tH	
7D7 C(V)	
7D9 P	<p>$S = 2.6 \text{ mA/V}$ $V_{g1} = -13.5 \text{ V}$ $R_i = 150 \text{ k}\Omega$ $P_a = \text{max. } 4 \text{ W}$</p>
7DJ8	=PCC88
7E5 t~	<p>$S = 3 \text{ mA/V}$ $\mu = 36$ $R_i = 120 \text{ k}\Omega$ $W_a = \text{max. } 4 \text{ W}$</p>
7E6 ddt	<p>$S = 1.88 \text{ mA/V}$ $\mu = 16$ $R_i = 8.5 \text{ k}\Omega$ $W_a = \text{max. } 2.5 \text{ W}$</p>
7E7 ddp	<p>$S = 1.3 \text{ mA/V}$ $V_{g1} = -3 \dots -42.5 \text{ V}$ $R_i = 700 \text{ k}\Omega$</p>
7ES8	=PCC189
7EY6 P	<p>$S = 4.4 \text{ mA/V}$ $R_i = 60 \text{ k}\Omega$ $P_a = \text{max. } 11 \text{ W}$</p>

7F7 tt	S=1,6 mA/V $\mu=70$ $R_i=44k$ $W_a=\text{max. } 2 \times 1 \text{ W}$	
7F8 tt	S=3,3 mA/V $\mu=48$ $R_i=14,5k$ $W_a=\text{max. } 3,5 \text{ W}$	
7G7 p	S=4,5 mA/V $V_{g1}=-2V$ $R_i=800k$	
7G8 qq~		
7H7 p	S=4,2 mA/V $V_{g1}=-2,5 \dots -30V$ $R_i=800k$	
7J7 tH	$S_c=0,29 \text{ mA/V}$ $V_{g1}=-3,-20V$ $R_i=1,5M$ $S_T=1,4 \text{ mA/V}$	

7K7 ddt	<p>S=16mA/V $\mu=70$ $R_i=44k$ $W_a=\text{max. } 1W$</p> 
7L7 p	<p>S=3.1mA/V $V_{g1}=-1.5V$ $R_i=1M$</p> 
7N7 tt	<p>S=2.6 mA/V $\mu=20$ $R_i=7.7k$ $W_a=\text{max. } 2 \times 2.5W$</p> 
7Q7 H	<p>S=550uA/V $V_{g3}=0 \dots -35V$ $R_i=1M$</p> 
7R7 ddp	<p>S=3.2 mA/V $V_{g1}=-1 \dots -20V$ $R_i=1M$ $W_a=\text{max. } 2W$</p> 
7S7 tH	<p>S=525uA/V $V_{g1}=-2V \dots -21V$ $R_i=1.25M$</p> 

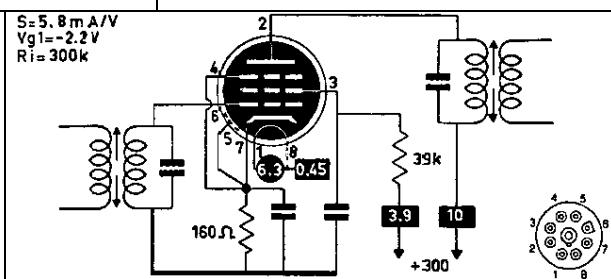
7T7

p



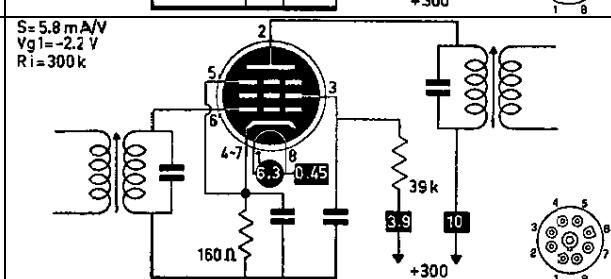
7V7

p



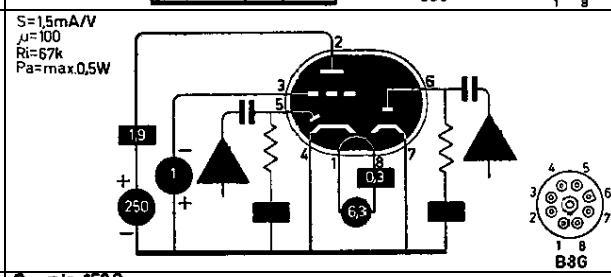
7W7

p



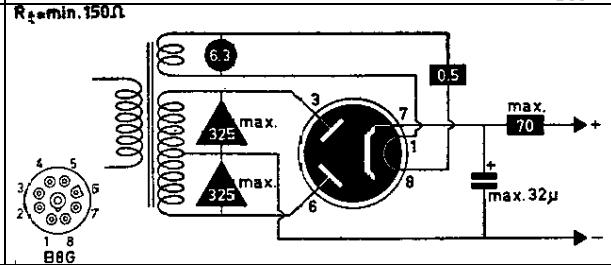
7X7

ddt



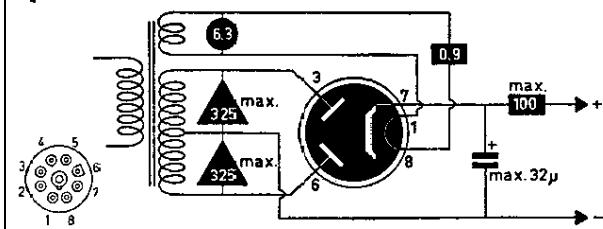
7Y4

rr

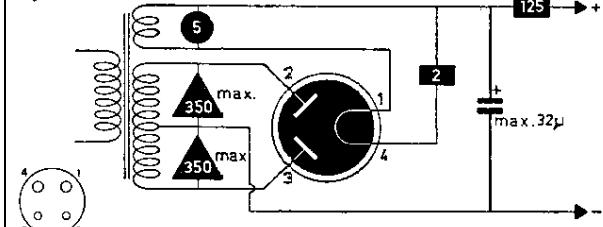


7Z4

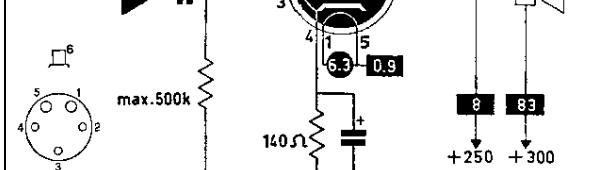
rr

 $R_t = \text{min. } 75\Omega$ **80**

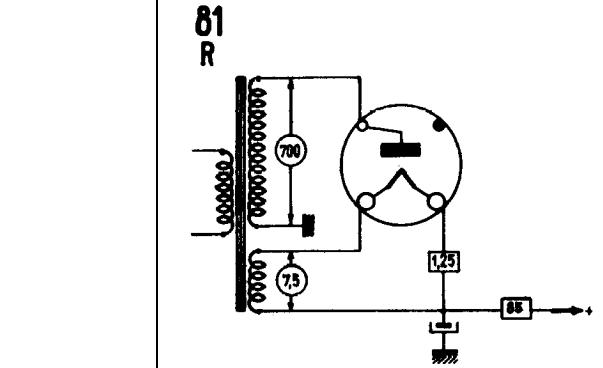
rr

 $R_t = \text{min. } 50\Omega$ **807**

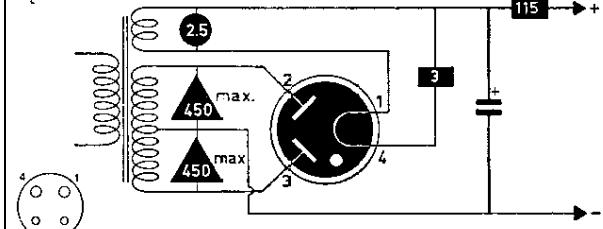
P~

 $S = 6.5 \text{ mA/V}$ $V_{g1} = -12.5 \text{ V}$ $R_i = 24 \text{ k}\Omega$ $W_a = 25 \text{ W}$ max.**81**

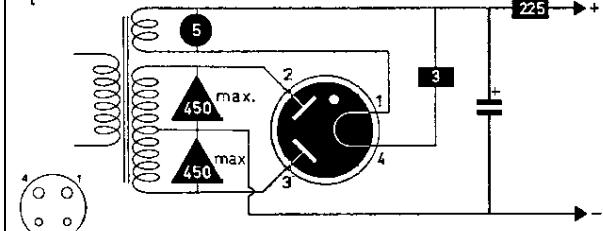
r

81
R**82**

rr°

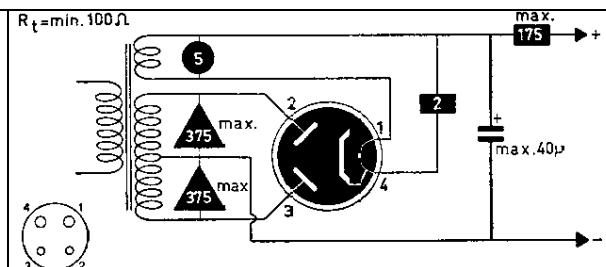
 $R_t = \text{min. } 50\Omega$ **83**

rr°

 $R_t = \text{min. } 50\Omega$ 

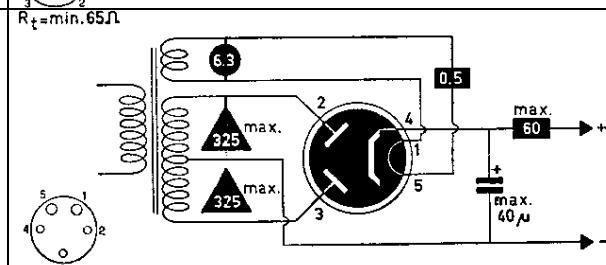
83V

rr



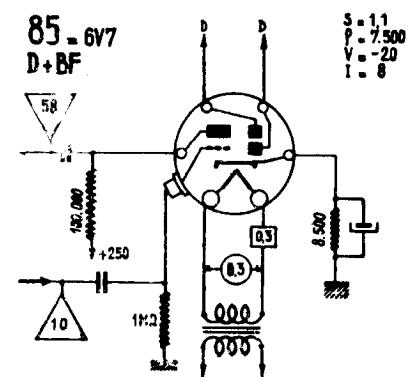
84

rr



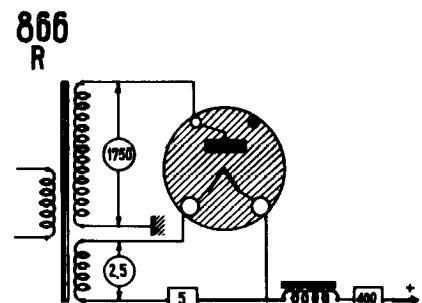
85

ddt



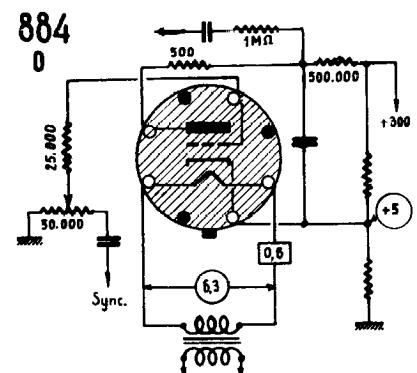
866

R°



884

t°

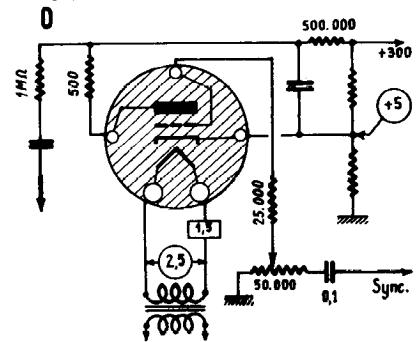


885

t°

885

0



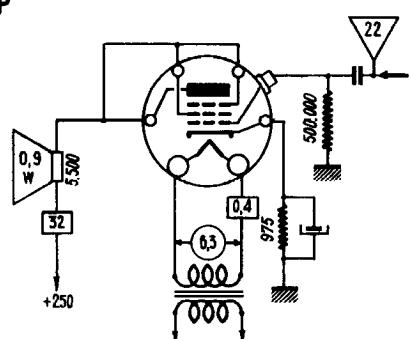
89

P

89

P

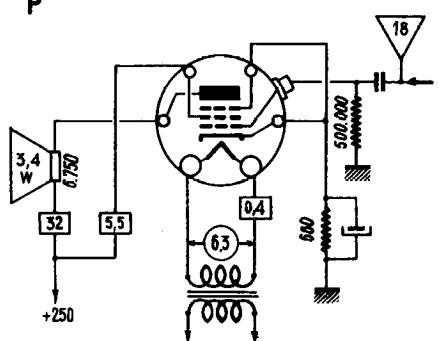
S = 1,8
P = 2.600
V = -31



89

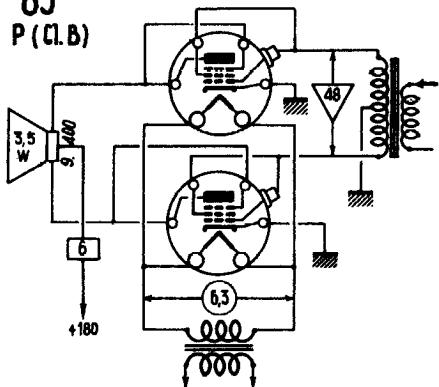
P

S = 1,8
P = 70.000
V = -25



89

P (C.I.B)

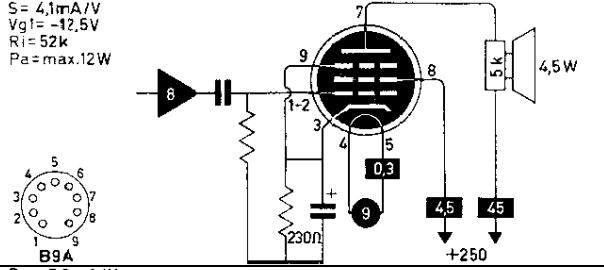
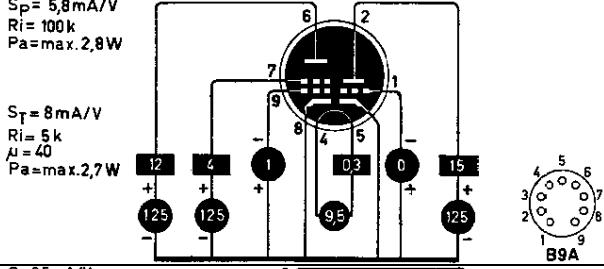
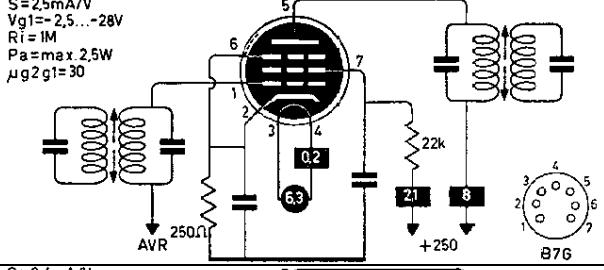
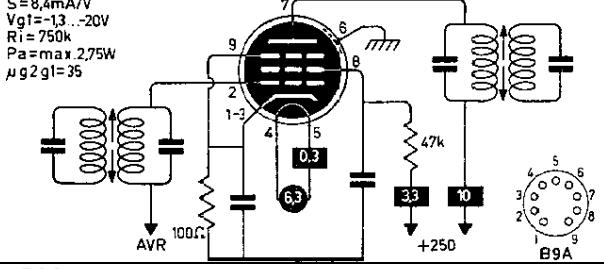


8AU8 tp	<p>pentode: $S=4.9\text{mA/V}$ $R_i=150\text{k}$ $P_a=\text{max. }3\text{W}$</p> <p>triode: $S=4.9\text{mA/V}$ $R_i=8.2\text{k}$ $\mu=40$ $P_a=\text{max. }5.5\text{W}$</p>
8AW8 tp	<p>$S_p=3\text{mA/V}$ $R_i=400\text{k}$ $P_a=\text{max. }3.25\text{W}$</p> <p>$S_T=4\text{mA/V}$ $R_i=7.5\text{k}$ $\mu=70$ $P_a=\text{max. }1\text{W}$</p>
8BA8 tp	<p>$S_p=3\text{mA/V}$ $R_i=400\text{k}$ $P_a=\text{max. }3.25\text{W}$</p> <p>$S_T=2.7\text{mA/V}$ $R_i=6.7\text{k}$ $\mu=18$ $P_a=\text{max. }2\text{W}$</p>
8BH8 tp	<p>$S_p=7\text{mA/V}$ $R_i=150\text{k}$ $P_a=\text{max. }3\text{W}$</p> <p>$S_T=3.3\text{mA/V}$ $R_i=5.15\text{k}$ $\mu=17$ $P_a=\text{max. }2.5\text{W}$</p>
8BN8 ddt	<p>$S=25\text{mA/V}$ $\mu=70$ $R_i=28\text{k}$ $P_a=\text{max. }1.5\text{W}$</p>
8BQ5 P	<p>$S=10.5\text{mA/V}$ $V_{g1}=-6.4\text{V}$ $\mu g_2 g_1=19$ $R_i=40\text{k}$ $P_a=\text{max. }12\text{W}$</p>
8CG7 tt	<p>$S=2.5\text{mA/V}$ $\mu=20$ $R_i=7.7\text{k}$ $P_a=\text{max. }2\times 3.5\text{W}$</p>

8CM7 tt	<p>A $S=4\text{ mA/V}$ $\mu=18$ $R_i=4.1\text{k}$ $P_a=\text{max.}5.5\text{W}$</p> <p>B $S=2\text{ mA/V}$ $\mu=20$ $R_i=11\text{k}$ $P_a=\text{max.}1.25\text{W}$</p>
8CN7 ddt	<p>$S=1.2\text{ mA/V}$ $\mu=70$ $R_i=58\text{k}$ $P_a=\text{max.}1\text{W}$</p>
8CS7 tt	<p>A $S=4.5\text{ mA/V}$ $\mu=15.5$ $R_i=3.45\text{k}$ $P_a=\text{max.}6.5\text{W}$</p> <p>B $S=2.2\text{ mA/V}$ $\mu=17$ $R_i=7.7\text{k}$ $P_a=\text{max.}1.25\text{W}$</p>
8CX8 tp	<p>$S_p=10\text{ mA/V}$ $R_i=70\text{k}$ $P_a=\text{max.}5\text{W}$</p> <p>$S_T=4.6\text{ mA/V}$ $R_i=8.7\text{k}$ $\mu=40$ $P_a=\text{max.}2\text{W}$</p>
8D8 p	<p>$S=1.9\text{ mA/V}$ $\mu g_2 g_1=38$ $R_i=2.5\text{M}$ $P_a=\text{max.}1\text{W}$</p>
8EB8 tp	<p>$S_p=12.5\text{ mA/V}$ $R_i=75\text{k}$ $P_a=\text{max.}5\text{W}$</p> <p>$S_T=2.7\text{ mA/V}$ $R_i=37\text{k}$ $\mu=100$ $P_a=\text{max.}1\text{W}$</p>
8EM5 P	<p>$S=5.1\text{ mA/V}$ $\mu g_2 g_1=8.7$ $P_a=\text{max.}10\text{W}$</p>

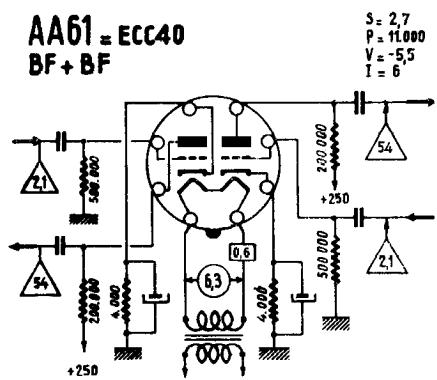
8ET7 ddp	S=11,5mA/V $R_i=60\text{ k}$ $P_a=\text{max. }5\text{W}$	
8FQ7 tt	S=2,6mA/V $\mu=20$ $R_i=7,7\text{ k}$ $P_a=\text{max. }2\times 4\text{W}$	
8GN8 tp	$S_p=11,5\text{mA/V}$ $R_i=60\text{ k}$ $P_a=\text{max. }5\text{W}$ $S_T=2,7\text{mA/V}$ $R_i=37\text{ k}$ $\mu=100$ $P_a=\text{max. }1\text{W}$	
8HG8	=PCF86	
8JV8 tp	$S_p=10,7\text{mA/V}$ $R_i=150\text{k}$ $P_a=\text{max. }4\text{W}$ $S_T=4\text{mA/V}$ $R_i=17,5\text{k}$ $\mu=70$ $P_a=\text{max. }1,1\text{W}$	
8KA8 tp	$S_p=4,4\text{mA/V}$ $R_i=100\text{k}$ $P_a=\text{max. }2\text{W}$ $S_T=4\text{mA/V}$ $R_i=17,5\text{k}$ $\mu=70$ $P_a=\text{max. }1,1\text{W}$	
8LC8 tp	$S_p=4,4\text{mA/V}$ $R_i=100\text{k}$ $P_a=\text{max. }2\text{W}$ $S_T=4\text{mA/V}$ $R_i=17,5\text{k}$ $\mu=70$ $P_a=\text{max. }1\text{W}$	
9001 p	$S=14\text{mA/V}$ $V_{g1}=-3\text{V}$ $R_i=1\text{M}$ $P_a=\text{max. }1\text{W}$	

9002 t	S=2,2mA/V $\mu=25$ $R_i=11,4k$ $P_a=\text{max. } 1,6W$
9003 p	S=18mA/V $\gamma_{gl}=-3...-45V$ $R_i=700k$ $P_a=\text{max. } 1,6W$
9006 d	Vd max.= 270 V Id max.= 5 mA
950 P	950 P $S=1$ $P=0,125 M\Omega$ $V=-16,5$
9A8	=PCF80
9AB4	=UC92
9AK8	=PABC80
9AQ8	=PCC85
9AU7 tt	S= 2,2 mA/V $\mu=17$ $R_i= 7,7k$ $P_a=\text{max } 2 \times 2,75W$
9BR7 ddt	S=4 mA/V $\mu=60$ $R_i=10,9k$ $P_a=\text{max. } 2,5W$

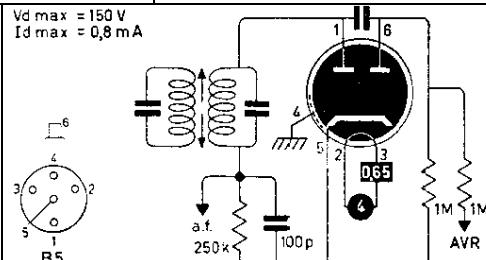
9BW6 P	S = 4,1mA/V Vg1 = -12,5V Ri = 52k Pa = max.12W  
9CL8 tq	S _P = 5,8mA/V Ri = 100k Pa = max.2,8W S _T = 8mA/V Ri = 5k μ = 40 Pa = max.2,7W  
9D6 p	S = 25mA/V Vg1 = -2,5...-28V Ri = 1M Pa = max.2,5W $\mu g_2 g_1 = 30$  
9D7 p	S = 8,4mA/V Vg1 = -13...-20V Ri = 750k Pa = max.2,75W $\mu g_2 g_1 = 35$  
9FG6	=PM84
9JW8	=PCF802
9U8	=PCF80

AA61

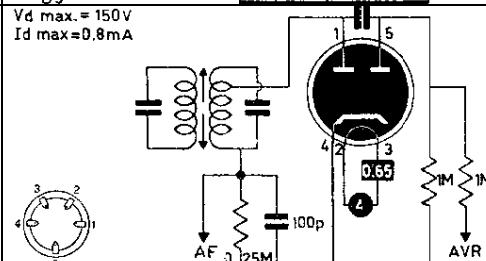
tt

AA61 = ECC40
BF + BF**AB1**

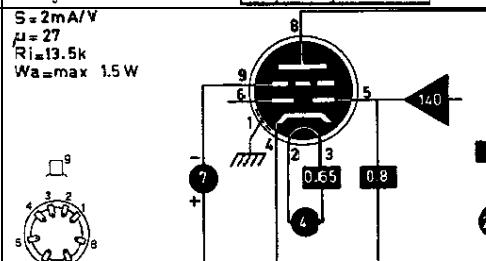
dd

Vd max. = 150 V
Id max. = 0,8 mA**AB2**

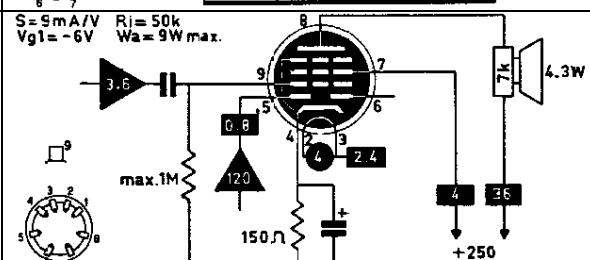
dd

Vd max. = 150 V
Id max. = 0,8 mA**ABC1**

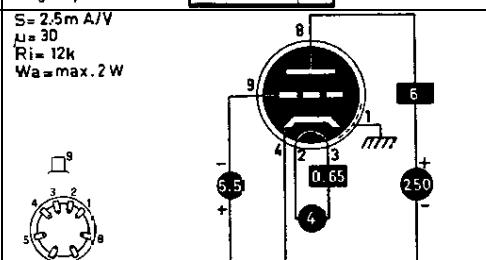
ddt

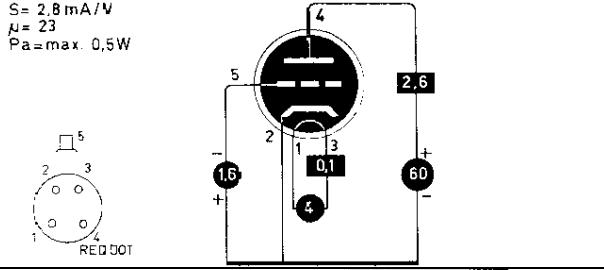
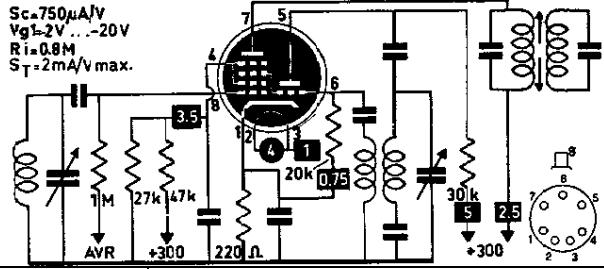
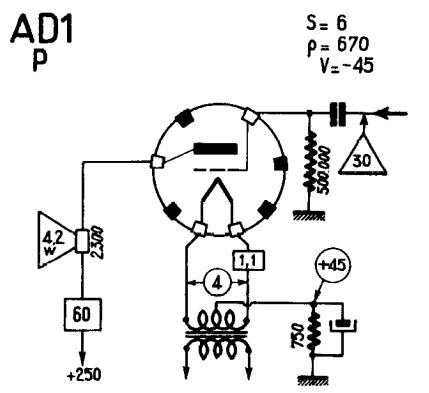
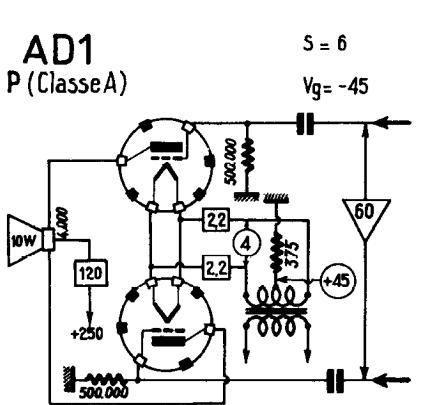
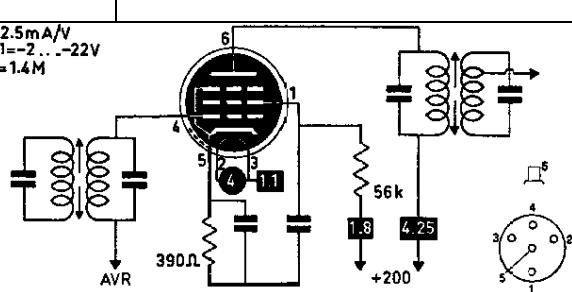
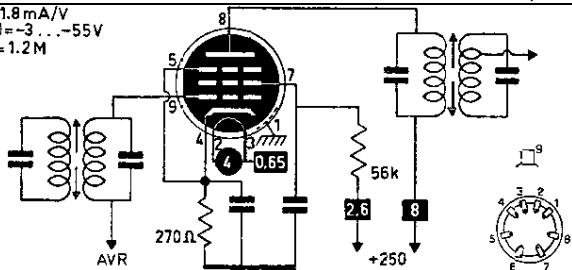
S = 2 mA/V
 $\mu = 27$
 $R_{in} = 13.5 k\Omega$
 $W_a = \text{max. } 1.5 W$ **ABL1**

ddP

S = 5 mA/V $R_i = 50 k\Omega$
 $V_{g1} = -6 V$ $W_a = 9 W \text{ max.}$ **AC2**

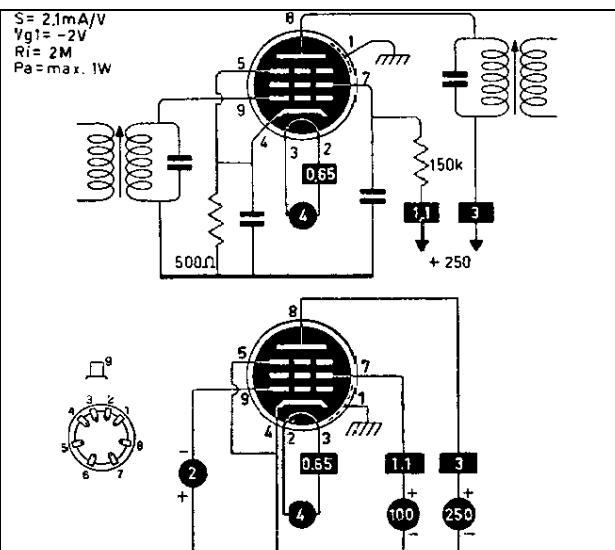
t

S = 2.5 mA/V
 $\mu = 30$
 $R_{in} = 12 k\Omega$
 $W_a = \text{max. } 2 W$ 

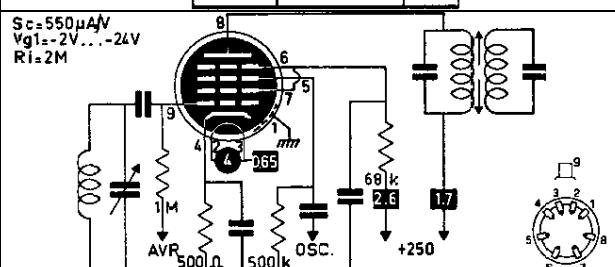
AC701 t	S = 2,8 mA/V $\mu = 23$ $R_a = \text{max. } 0,5\text{W}$	
ACH1 th	$S_c = 750 \mu\text{A/V}$ $V_g = -2\text{V} \dots -20\text{V}$ $R_i = 0.8\text{M}\Omega$ $S_T = 2\text{mA/V max.}$	
AD1 P		
		
AF2 p	$S = 2,5 \text{ mA/V}$ $V_g = -2 \dots -22\text{V}$ $R_i = 1.4\text{M}\Omega$	
AF3 p	$S = 1.8 \text{ mA/V}$ $V_g = -3 \dots -55\text{V}$ $R_i = 1.2\text{M}\Omega$	

AF7

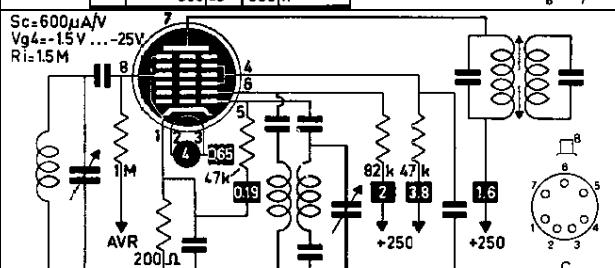
p

**AH1**

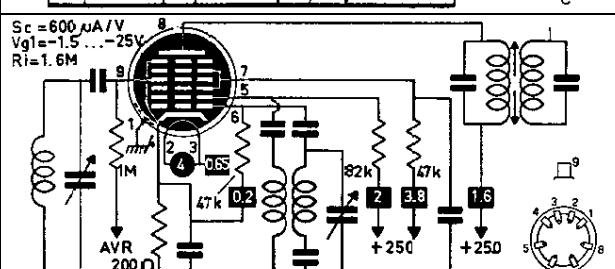
h

**AK1**

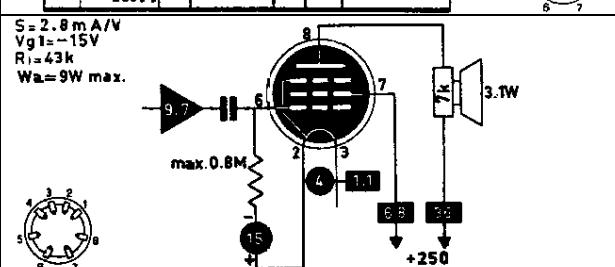
o

**AK2**

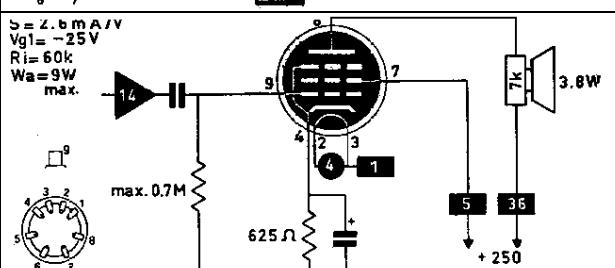
o

**AL1**

P

**AL2**

P

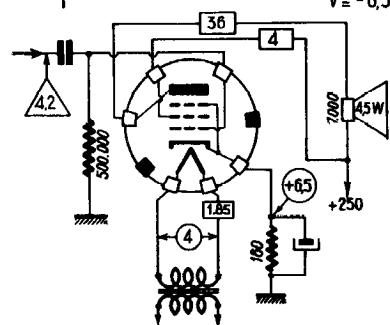


AL3

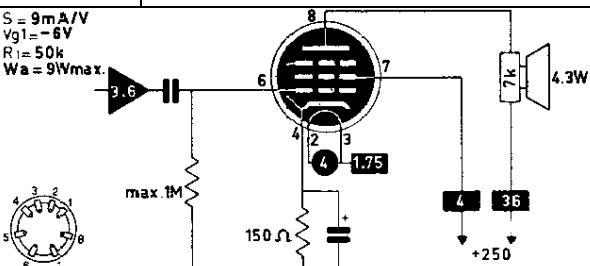
P

AL3

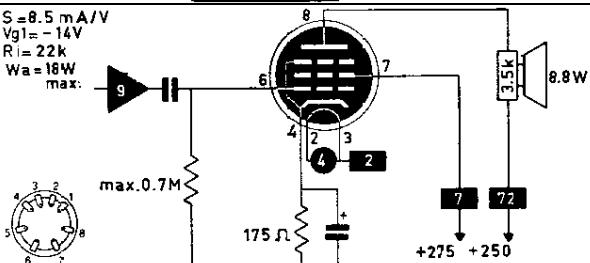
P

 $S = 9$
 $\rho = 50.000$
 $V = -6,5$
**AL4**

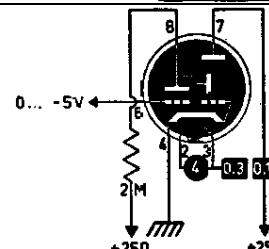
P

 $S = 9 \text{ mA/V}$
 $V_{g1} = -6V$
 $R_i = 50k$
 $W_a = 9 \text{ W max.}$
**AL5**

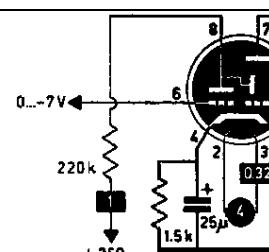
P

 $S = 8.5 \text{ mA/V}$
 $V_{g1} = -14V$
 $R_i = 22k$
 $W_a = 18 \text{ W max.}$
**AM1**

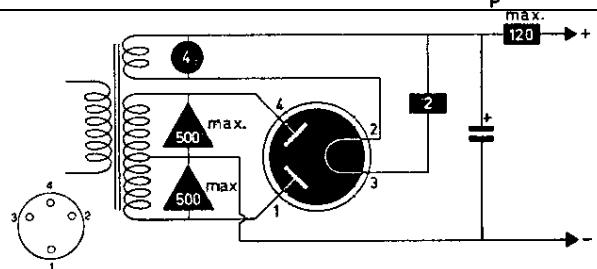
ti

**AM2**

ti

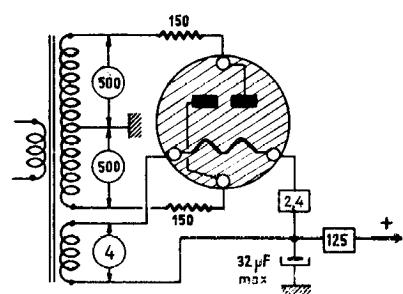
**APV4100**

rr

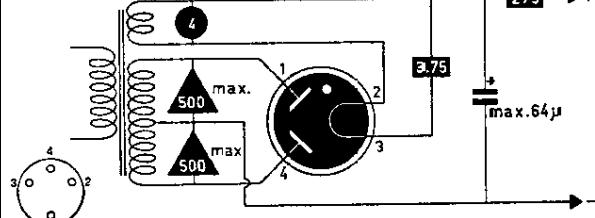


AX1

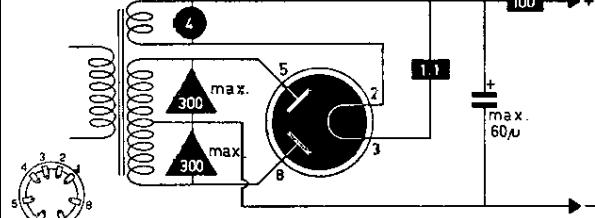
rr°

AX1 = 4.652**R****AX50**

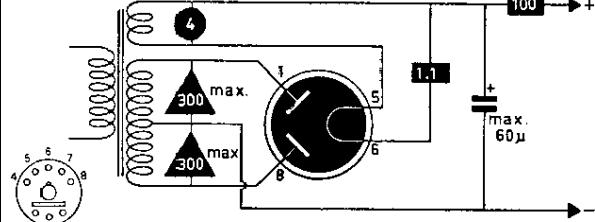
rr°

 $R_t = \text{min. } 200\Omega$ **AZ1**

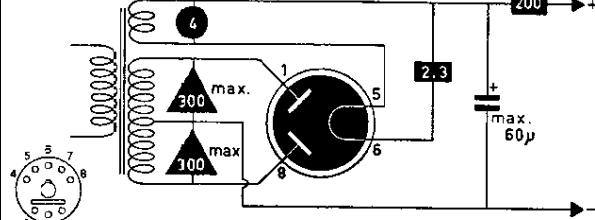
rr

 $R_t = \text{min. } 2 \times 60\Omega$ **AZ11**

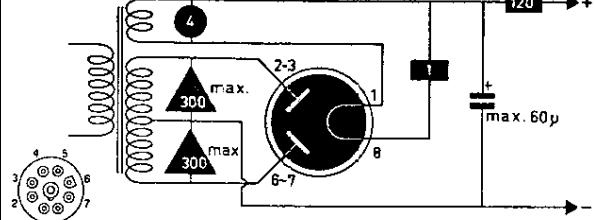
rr

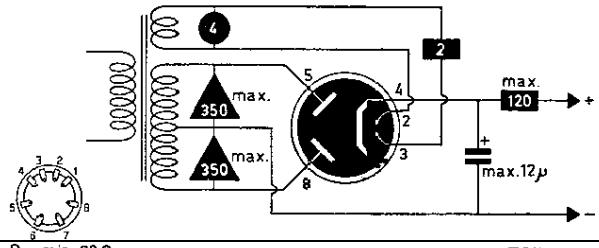
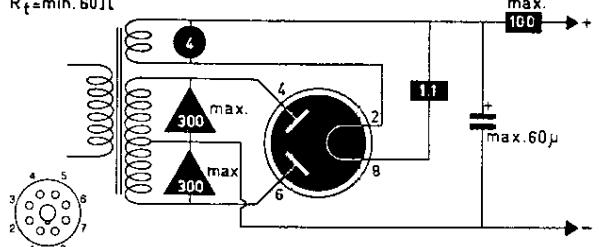
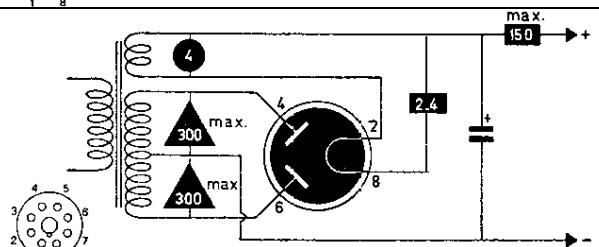
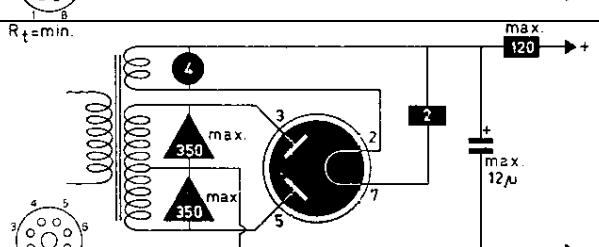
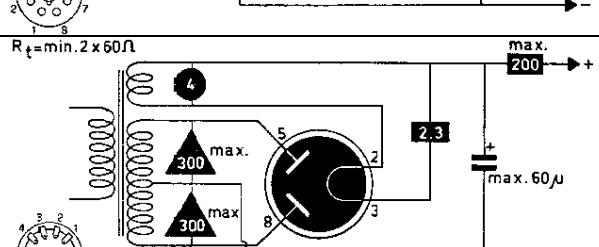
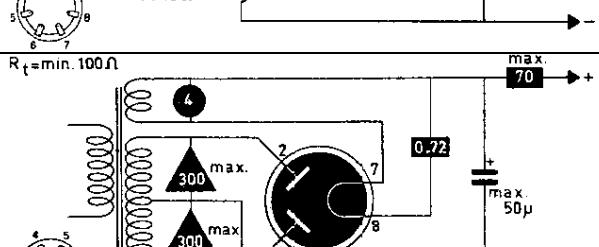
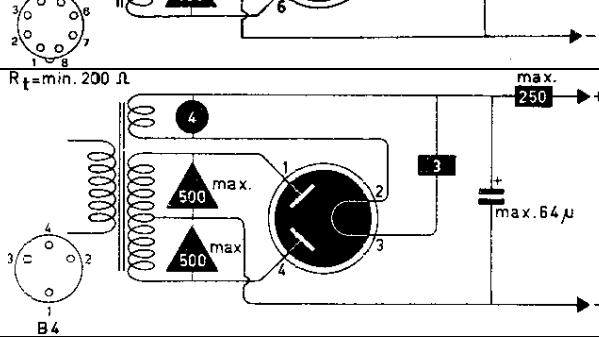
 $R_t = \text{min. } 60\Omega$ **AZ12**

rr

 $R_t = \text{min. } 60\Omega$ **AZ21**

rr

 $R_t = \text{min. } 100\Omega$ 

AZ3	rr	
AZ31	rr	
AZ32	rr	
AZ33	rr	
AZ4	rr	
AZ41	rr	
AZ50	rr	

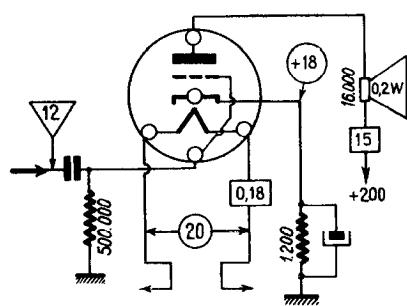
B2006

T

B2006

P

$S = 1.6 \text{ mA/V}$
 $\rho = 4.000$
 $V = -18$



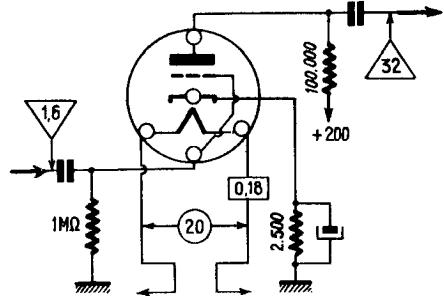
B2038

t

B2038

BF

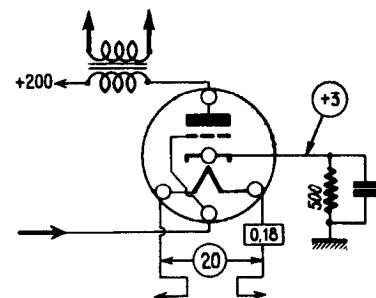
$S = 2.3 \text{ mA/V}$
 $\rho = 14.000$
 $V = -3$



B2038

BF

$S = 2.3 \text{ mA/V}$
 $\rho = 14.000$
 $V = -3$



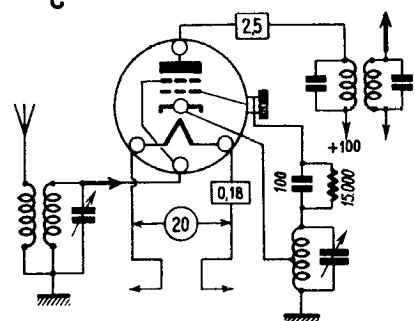
B2041

q

B2041

C

$S_c = 0.3 \text{ mA/V}$
 $V = 0$

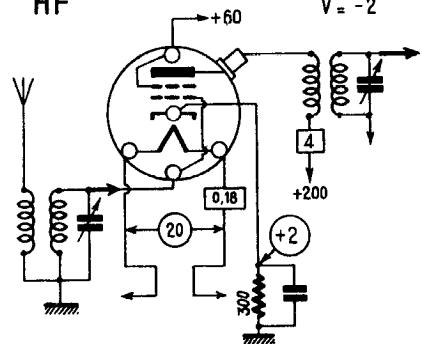


B2042

q

B2042

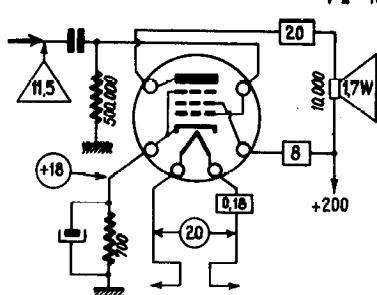
HF

 $S = 1 \text{ mA/V}$
 $\rho = 0.4 \text{ M}\Omega$
 $V = -2$
**B2043**

P

B2043

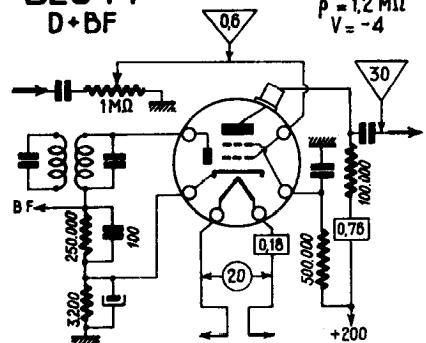
c

 $S = 1.7$
 $\rho = 40.000$
 $V = -18$
**B2044**

dq

B2044

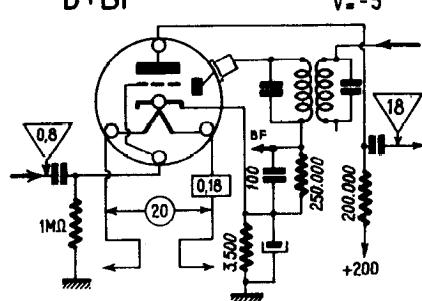
D+BF

 $S = 2.8$
 $\rho = 1.2 \text{ M}\Omega$
 $V = -4$
**B2044S**

dt

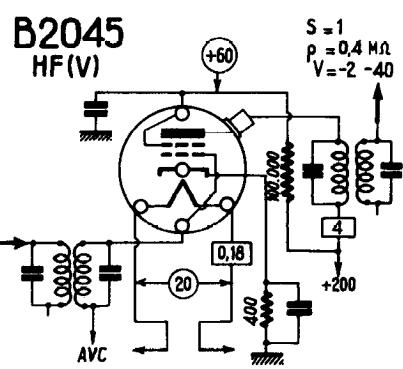
B2044S

D+BF

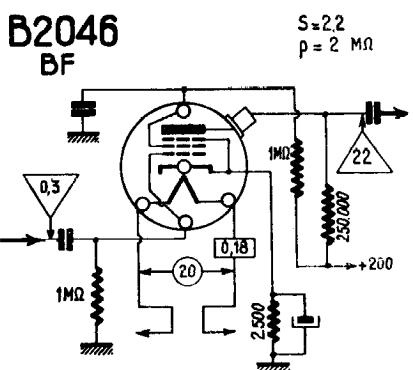
 $S = 1.8$
 $\rho = 18.000$
 $V = -3$


B2045

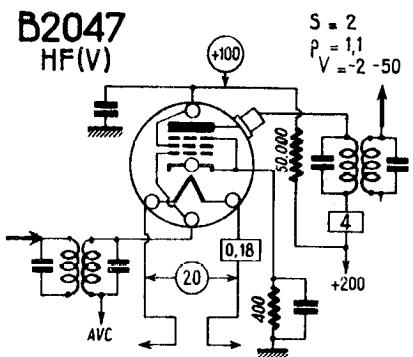
q

**B2046**

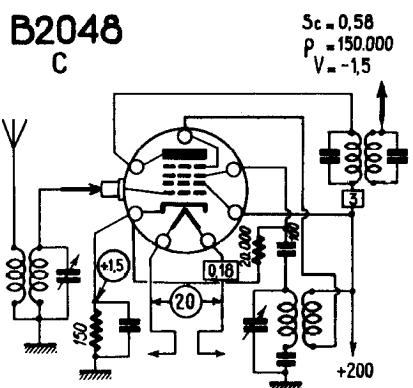
p

**B2047**

p

**B2048**

h

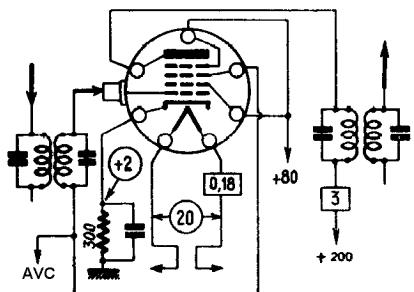


B2049

h

B2049
HF(V)

S = 0,8
P = 450.000
V = -2 - 8

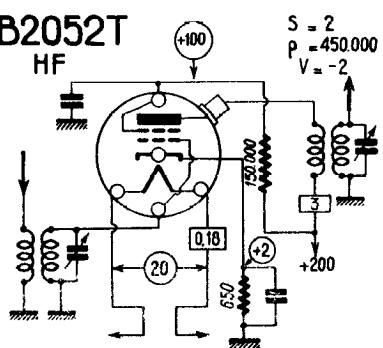


B2052T

q

B2052T
HF

S = 2
P = 450.000
V = -2

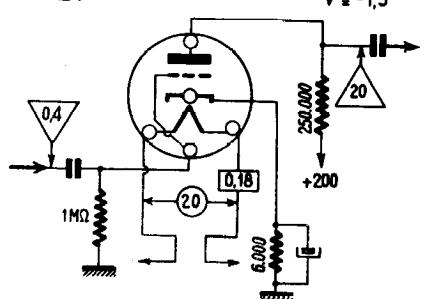


B2099

t

B2099
BF

S = 3
P = 33.000
V = -1,5

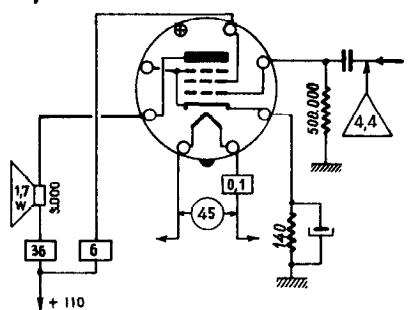


BF451

P

BF451 = UL41
P

S = 8,6
P = 18.000
V = -5,9

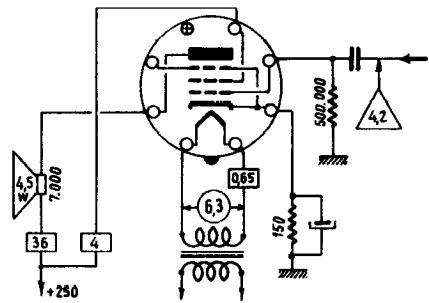


BF61

P

BF61 = EL41

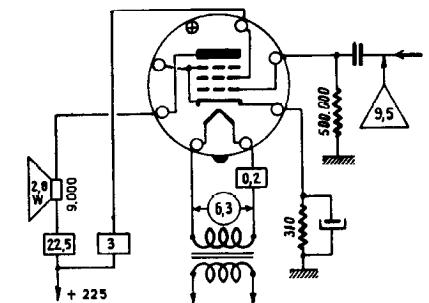
P

 $S = 9$
 $P = 50.000$
 $V = -6$
**BF62**

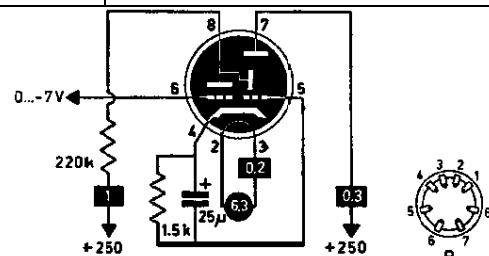
P

BF62 = EL42

P

 $S = 3,2$
 $P = 90.000$
 $V = 10$
**C/EM2**

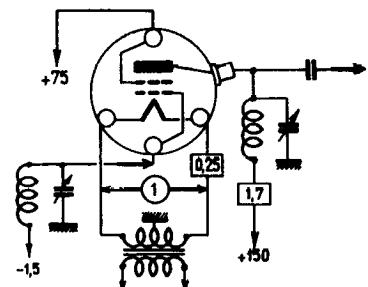
ti

**C142**

q

C142

HF

 $S = 0,6$
 $P = 0,5 \text{ M}\Omega$
 $V = -1,5$


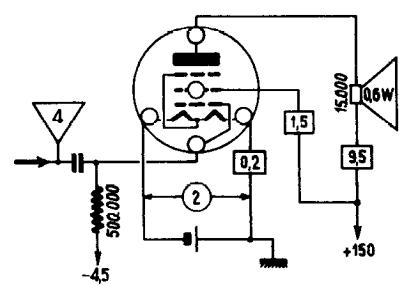
C243N

P

C243N

P

S = 2,4
P = 75.000
V = -4,5



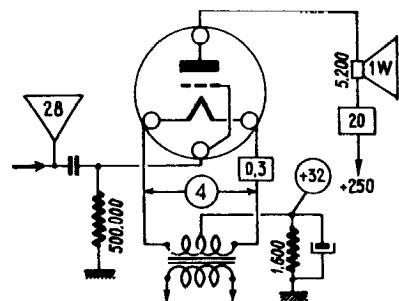
C405

T

C405

P

S = 1,9
P = 2.600
V = -32



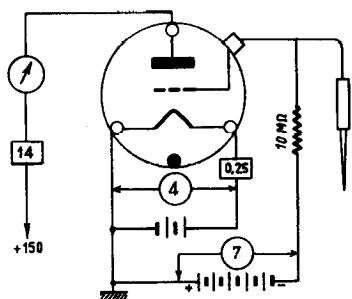
C408

t

C408

M

S = 2,7
P = 3.000
V = -7



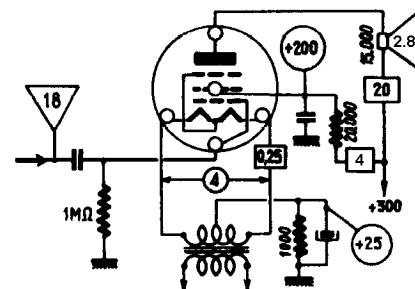
C443

P

C443

P

S = 1,7
P = 35.000
V = -25



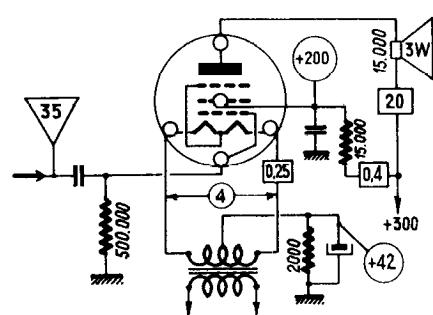
C334N

P

C443N

P

$S = 1,5$
 $P = 25.000$
 $V = -42$

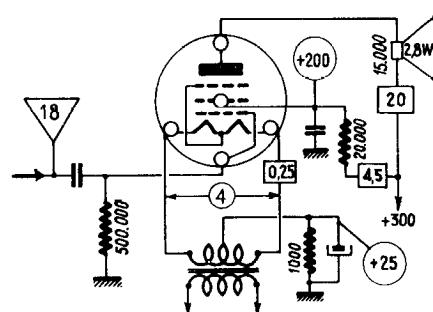
**C453**

P

C453

P

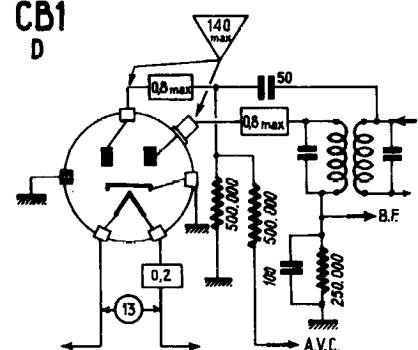
$S = 1,7$
 $P = 35.000$
 $V = -25$

**CB1**

dd

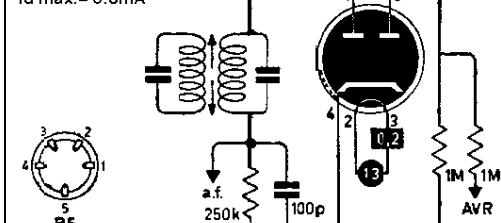
CB1

D

**CB2**

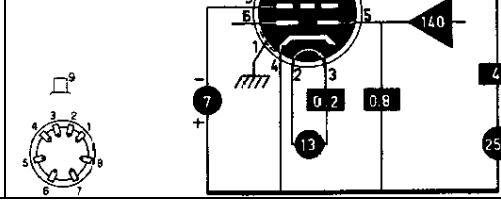
dd

$V_d \text{ max.} = 150V$
 $I_d \text{ max.} = 0.8mA$

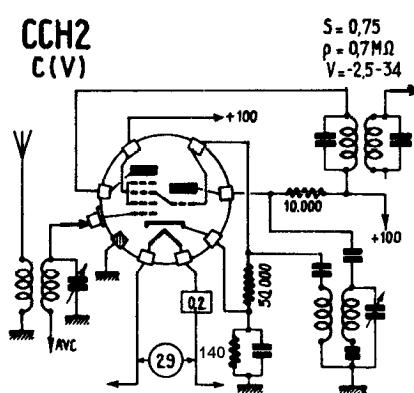
**CBC1**

ddt

$S = 2mA/W$
 $\mu = 27$
 $R_i = 13.5k\Omega$
 $W_a = \text{max } 1.5 W$



CBL1 ddP	<p>S=8 mA/V Ri=40k Vg1=-8.5V Wa=9W max.</p>
CBL31 ddP	<p>S=8 mA/V Vg1=-8.5V Ri=35k Wa=5W max.</p>
CBL6 ddP	<p>S=6.2 mA/V Vg1=9.2V Ri=37k Wa=9W max.</p>
CC2 t	<p>S=2.5 mA/V μ=30 Ri=12 k Wa=max. 2 W</p>
CCH1 th	<p>S<750μA/V Vg1=-2V...-20V Ri=0.9M ST=2.3mA/V max.</p>
CCH2	<p>Sc=0.75 ρ=1.5 MΩ V=-2-34</p>

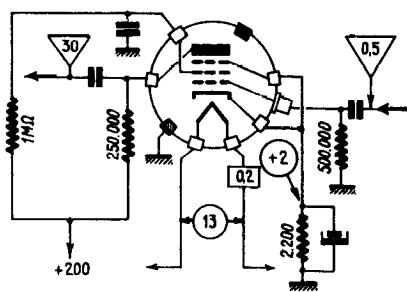


CF1

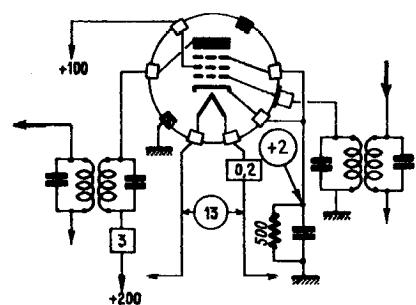
p

CF1

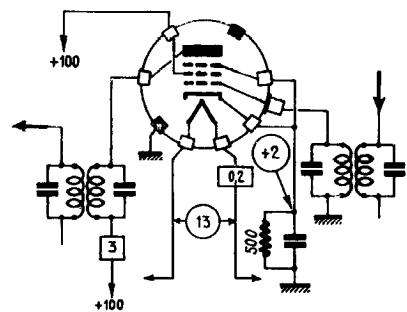
BF

 $S = 2,3$
 $\rho = 1,7 \text{ M}\Omega$
 $V = -2$
**CF1**

HF

 $S = 2,3$
 $\rho = 1,7 \text{ M}\Omega$
 $V = -2$
**CF1**

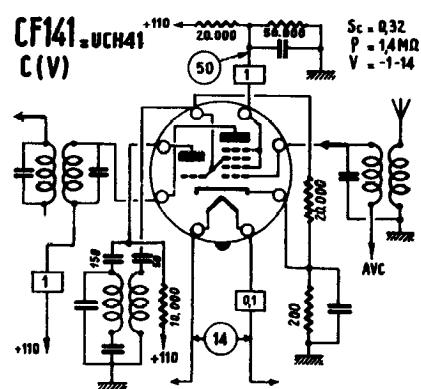
HF

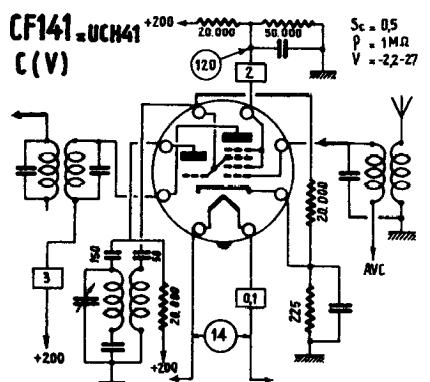
 $S = 2,3$
 $\rho = 0,6 \text{ M}\Omega$
 $V = -2$
**CF141**

th

CF141 = UCH41

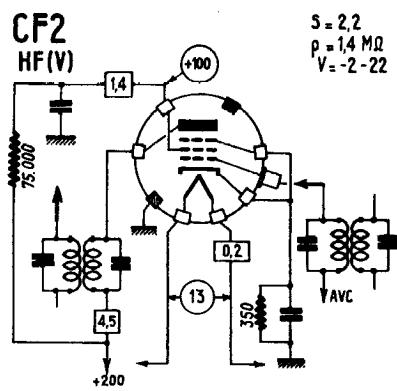
C(V)



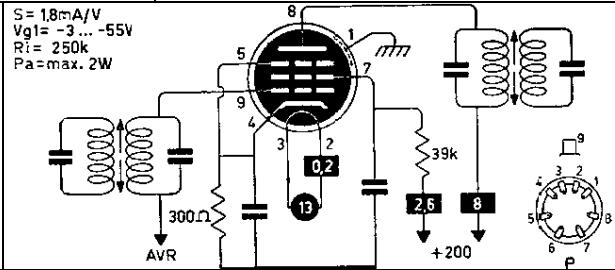


CF2

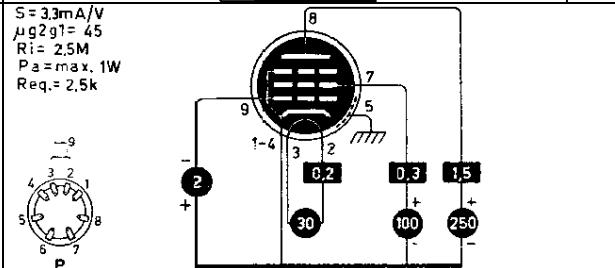
p

**CF3**

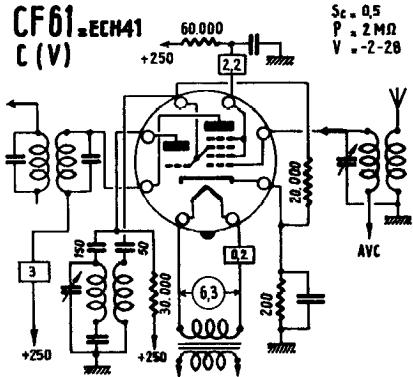
p

**CF50**

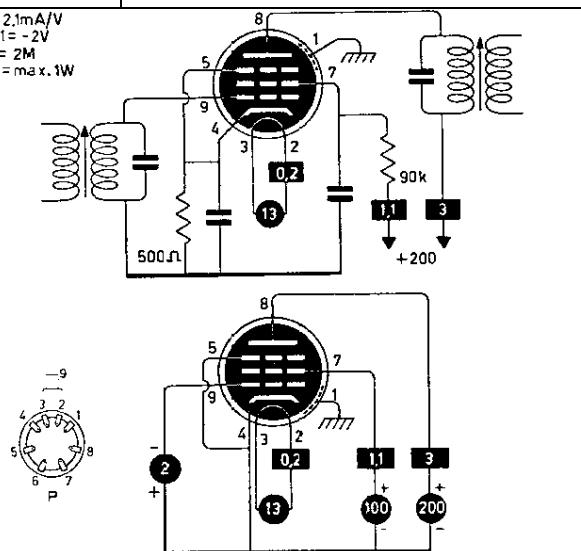
p

**CF61**

th

**CF7**

p

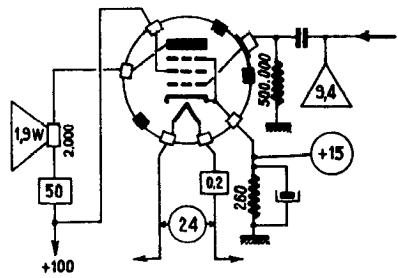


CH1 h	<p>$S_c = 550 \mu A/V$ $V_{g1} = -2V \dots -20V$ $R_i = 2M$</p>
CK1 o	<p>$S_c = 550 \mu A/V$ $V_{g4} = -1.5V \dots -25V$ $R_i = 1M$</p>
CK3 o	<p>$S_c = 650 \mu A/V$ $V_{g4} = -2.5V \dots -42V$ $R_i = 1.7M$</p>
CL1 P	<p>$S = 2.5$ $P = 50.000$ $V = -14$</p>
CL2 P	<p>$S = 3.1$ $P = 23.000$ $V = -19$</p>

CL2

P

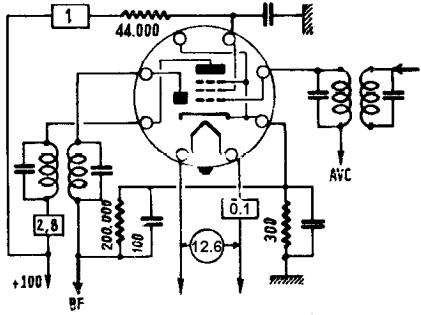
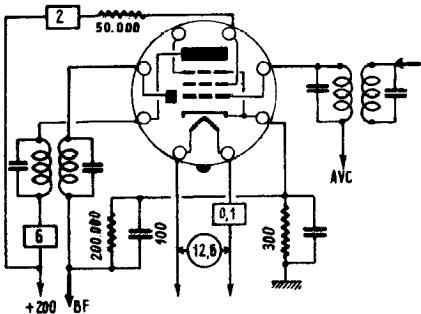
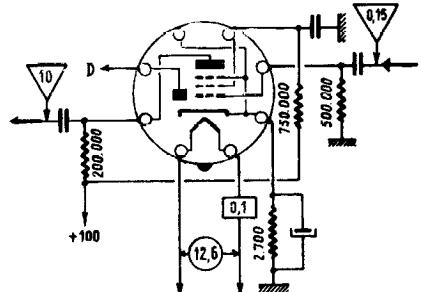
$S = 3,8$
 $\rho = 18.000$
 $V \approx -15$



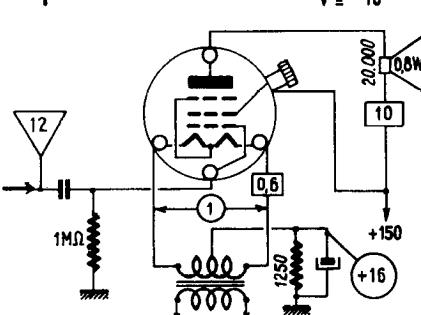
CL4 P	<p>$S = 8 \text{ mA/V}$ $V_{g1} = -8.5 \text{ V}$ $R_i = 35 \text{ k}$ $W_a = 9 \text{ W max.}$</p>
CL6 P	<p>$S = 8 \text{ mA/V}$ $V_{g1} = -9.5 \text{ V}$ $R_i = 22 \text{ k}$ $W_a = 9 \text{ W max.}$</p>
CY1 r	
CY2 rr	
CY31 rr	
CY32 r	

D121

dp

D121 = UAF41**HF + D**
 $S = 1,6$
 $P = 1 \text{ M}\Omega$
 $V = -1,1 - 17$
**D121 = UAF41****HF + D**
 $S = 1,9$
 $P = 1,3 \text{ M}\Omega$
 $V = -2,5 - 34$
**D121 = UAF41****D + BF**
 $S = 1,3$
 $P = 50.000$
 $V = -16$
**D143**

p

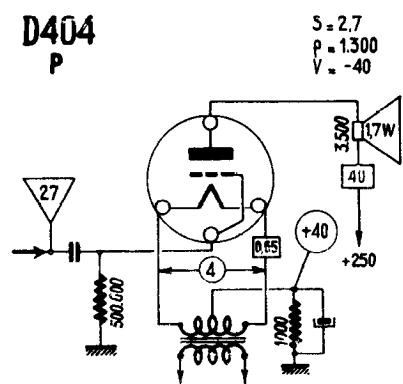
D143**P**
 $S = 1,3$
 $P = 50.000$
 $V = -16$


D404

T

D404

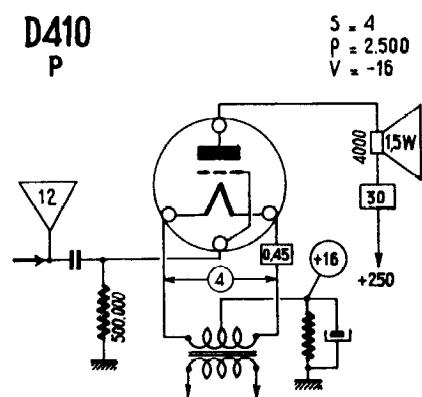
P

**D410**

T

D410

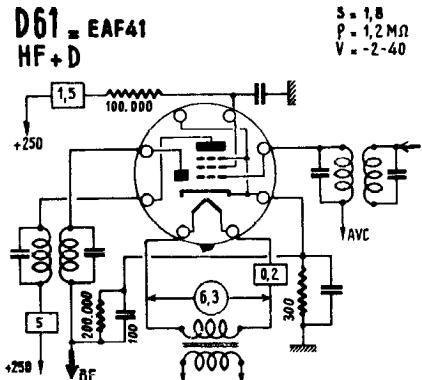
P

**D61**

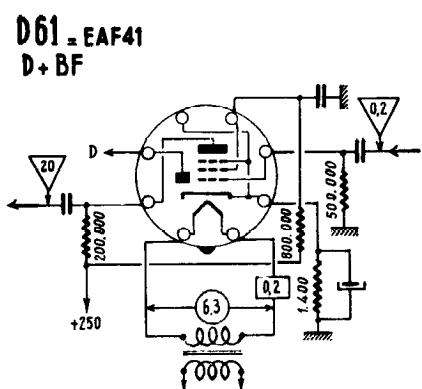
dp

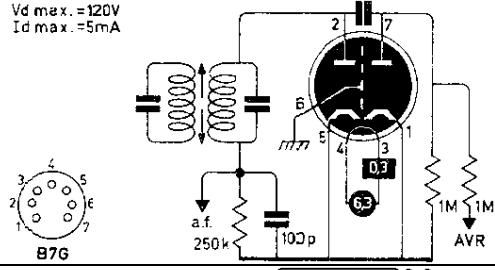
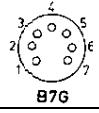
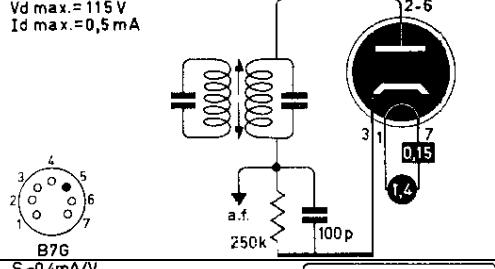
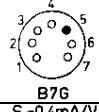
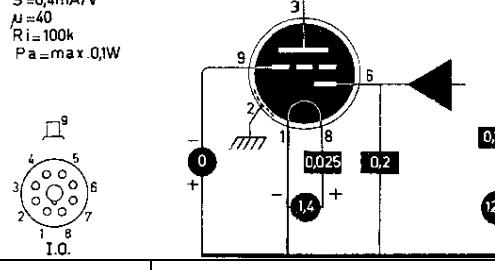
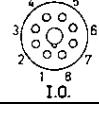
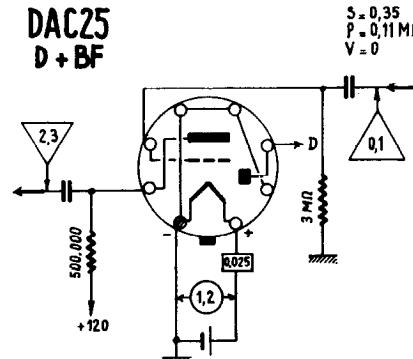
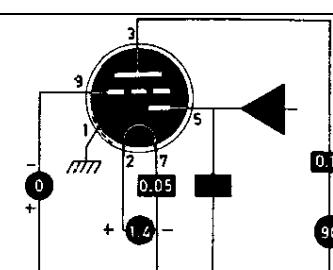
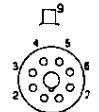
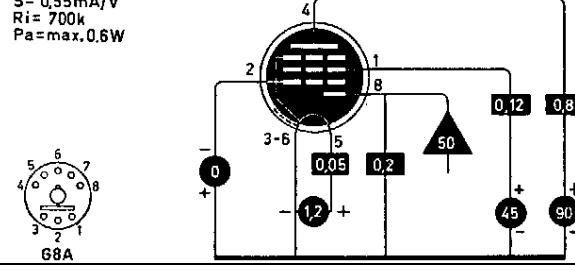
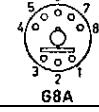
D61 = EAF41

HF + D

**D61 = EAF41**

D + BF

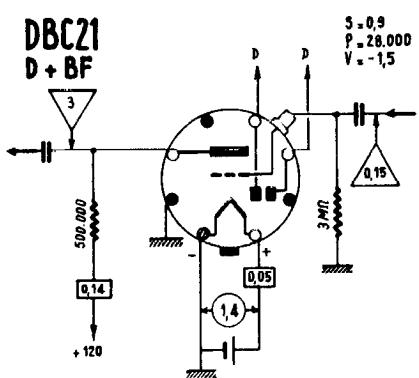


D77 dd	Vd max.=120V Id max.=5mA  
DA90 d	Vd max.=115 V Id max.=0,5 mA  
DAC21 dt	S=0,4mA/V $\mu=40$ $R_i=100k$ $P_a=\text{max.}0,1W$  
DAC25 dt	DAC25 $S=0,35$ $P=0,11\text{ M}\Omega$ $V=0$ 
DAC32 dt	S=0,275mA/V $\mu=65$ $R_i=240k$  
DAF11 dp	S=0,55mA/V $R_i=700k$ $P_a=\text{max.}0,6W$  

DAF40 dp	<p>S=0.7mA/V Vg1=0...-5V Ri=2.2M $\mu g_2 g_1 = 32$ Req=8.7k</p>
DAF41 dp	<p>S=0.7mA/V $\mu g_2 g_1 = 32$ Ri=2.2M Wa=max.0.2W</p>
DAF91 dp	<p>S=0.72mA/V $\mu g_2 g_1 = 13.5$ Ri=500k Wa=0.25W</p>
DAF96 dp	<p>Wa=max.0.03W</p>
DAH50 dH	<p>DAH50 D + BF</p> <p>DAH50 D + P</p>

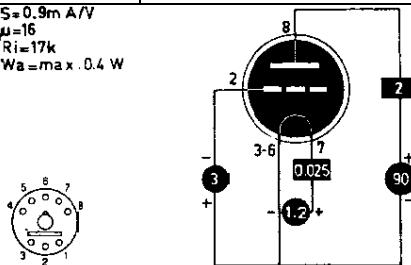
DBC21

ddt

**DC11**

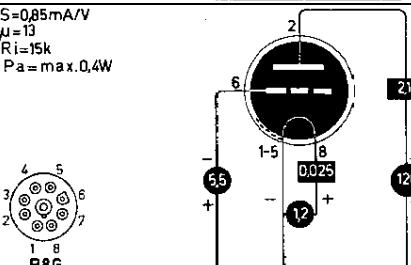
t

$S = 0.9 \text{ mA/V}$
 $\mu = 16$
 $R_i = 17 \text{ k}\Omega$
 $W_a = \text{max. } 0.4 \text{ W}$

**DC25**

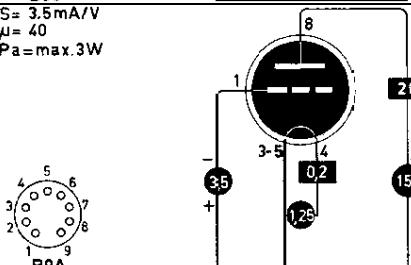
t

$S = 0.85 \text{ mA/V}$
 $\mu = 13$
 $R_i = 15 \text{ k}\Omega$
 $P_a = \text{max. } 0.4 \text{ W}$

**DC80**

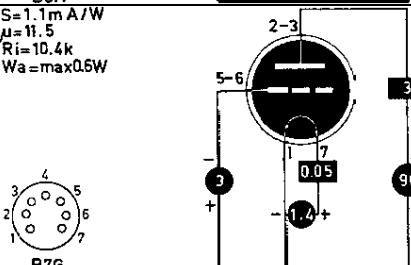
t

$S = 3.5 \text{ mA/V}$
 $\mu = 40$
 $P_a = \text{max. } 3 \text{ W}$

**DC90**

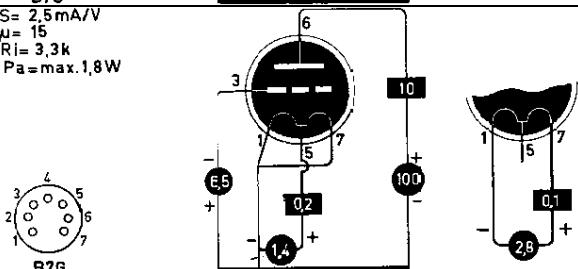
t

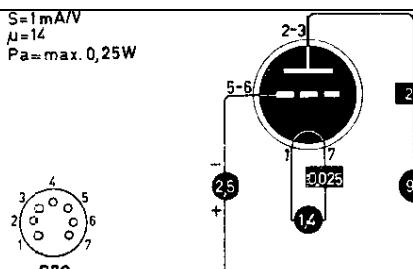
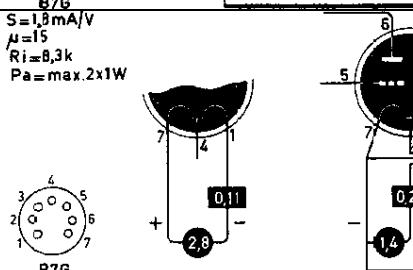
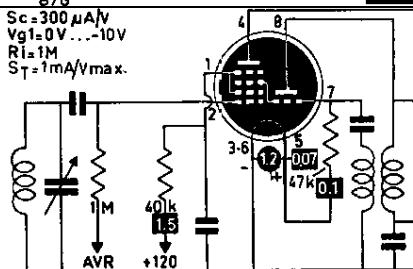
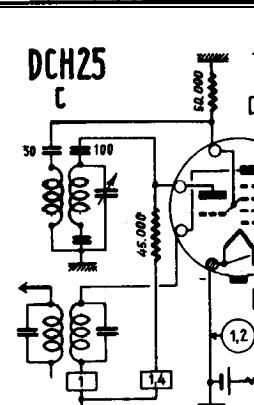
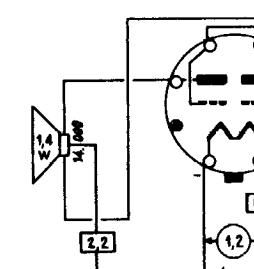
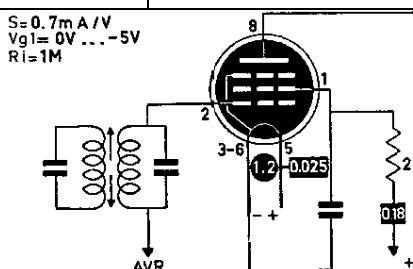
$S = 1.1 \text{ mA/V}$
 $\mu = 11.5$
 $R_i = 10.4 \text{ k}\Omega$
 $W_a = \text{max. } 0.6 \text{ W}$

**DC93**

t

$S = 2.5 \text{ mA/V}$
 $\mu = 15$
 $R_i = 3.3 \text{ k}\Omega$
 $P_a = \text{max. } 1.8 \text{ W}$



DC96 t	S=1 mA/V $\mu=14$ $P_a=\text{max. } 0,25\text{W}$  
DCC90 t	S=1.8 mA/V $\mu=15$ $R_i=8.3\text{k}$ $P_a=\text{max. } 2\times 1\text{W}$  
DCH11 th	$S_c=300 \mu\text{A/V}$ $V_g1=0\text{V} \dots -10\text{V}$ $R_i=1\text{M}$ $S_T=1\text{mA/V max.}$  
DCH25 th	DCH25  
DDD25 TT	DDD25 P (cl.B)  
DF11 p	S=0.7 mA/V $V_g1=0\text{V} \dots -5\text{V}$ $R_i=1\text{M}$  

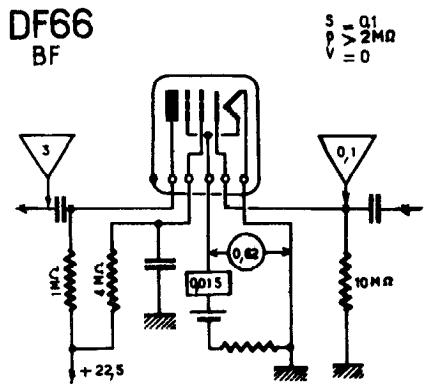
DF21 p	<p>S=0.7m A/V Vg1=0tot-3.5V Ri=2M $\mu g_2 g_1 = 30$</p>
DF22 p	<p>S=1.1m A/V Vg1=-1.5tot-6V Ri=1.5M $\mu g_2 g_1 = 25$</p>
DF25 p	<p>DF25 HF (V)</p> <p>S = 0,63 P = 2,5 MΩ V = 0-10</p>
DF33 p	<p>S=0.75m A/V Vg1=0tot-4V Ri=1.5M</p>
DF65 p	<p>DF65 BF</p> <p>S = 0,1 P = 4 MΩ V = 0</p>

DF66

p

DF66

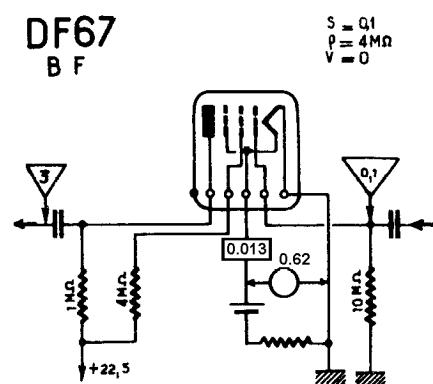
BF

**DF67**

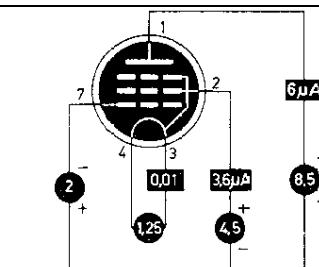
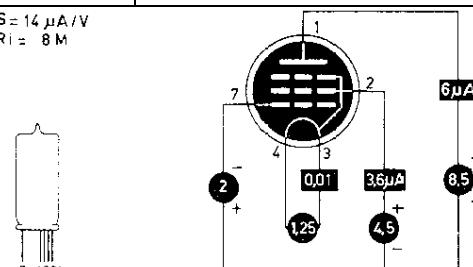
p

DF67

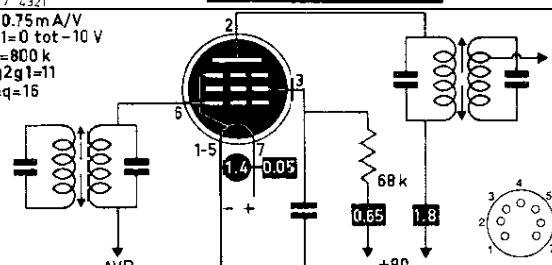
B F

**DF703**

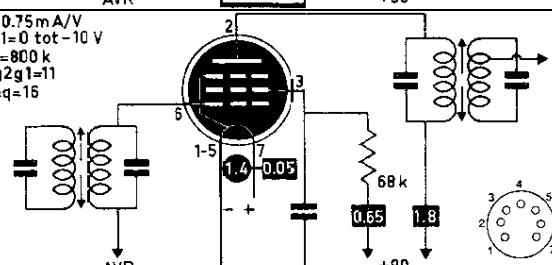
p

 $S = 14 \mu\text{A/V}$
 $R_i = 8 \text{ M}\Omega$ **DF91**

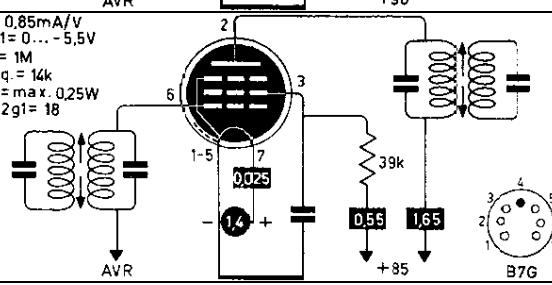
p

 $S = 0.75 \text{ mA/V}$
 $V_{g1} = 0 \text{ tot } -10 \text{ V}$
 $R_i = 800 \text{ k}\Omega$
 $\mu g_2 g_1 = 11$
 $R_{eq} = 16$ **DF92**

p

 $S = 0.75 \text{ mA/V}$
 $V_{g1} = 0 \text{ tot } -10 \text{ V}$
 $R_i = 800 \text{ k}\Omega$
 $\mu g_2 g_1 = 11$
 $R_{eq} = 16$ **DF96**

p

 $S = 0.85 \text{ mA/V}$
 $V_{g1} = 0 \dots -5.5 \text{ V}$
 $R_i = 1 \text{ M}\Omega$
 $R_{eq} = 14 \text{ k}\Omega$
 $P_a = \text{max. } 0.25 \text{ W}$
 $\mu g_2 g_1 = 18$ 

DF97	p	<p>$S=0,94\text{mA/V}$ $V_{g1}=0 \dots -5\text{V}$ $R_i=450\text{k}$ $P_a=\text{max. }0,25\text{W}$ $\mu g_2 g_1=20$</p>
DK21	o	<p>$S_c=500\text{\mu A/V}$ $V_{g4}=0 \dots -6\text{V}$ $R_i=1,25\text{M}$</p>
DK32	=1A7	
DK40	o	<p>$S_c=425\text{\mu A/V}$ $V_{g4}=0 \dots -12,5\text{V}$ $R_i=1\text{M}$</p>
DK91	H	<p>$S_c=300\text{\mu A/V}$ $V_{g3}=0 \dots -14\text{V}$ $R_i=0,6\text{M}$ $R_{eq}=195\text{k}$</p>
DK92	H	<p>$S_c=325\text{\mu A/V}$ $V_{g3}=0 \dots -6\text{V}$ $R_i=1\text{M}$ $R_{eq}=100\text{k}$</p>
DK96	H	<p>$S_c=300\text{\mu A/V}$ $V_{g3}=0 \dots -6\text{V}$ $R_i=800\text{k}$</p>
DL11	P	<p>$S=1\text{mA/V}$ $V_{g1}=-4,5\text{V}$ $R_i=500\text{k}$ $\mu g_2 g_1=10$ $W_a=1\text{W max.}$</p>

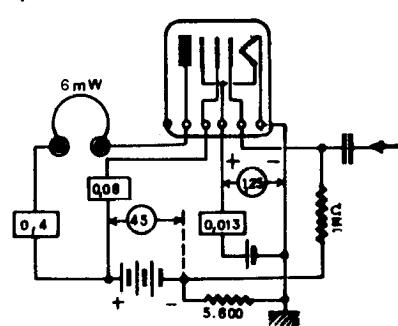
DL21 P	<p>S=1.3mA/V Vg1=-3V Ri=300k Wa=0.7W max.</p> <p>2.1</p> <p>max.2M</p> <p>3</p> <p>1.4 0.05</p> <p>0.7 4</p> <p>+90</p> <p>2.2k</p> <p>0.15W</p> <p>3</p> <p>1.4 0.05</p> <p>0.7 4</p> <p>+90</p> <p>2.2k</p> <p>0.15W</p>
DL35 P	<p>S=1.55mA/V Ri=115k Pa=max 1W</p> <p>5.2</p> <p>3</p> <p>1.4 0.1</p> <p>1.6 7.5</p> <p>+90</p> <p>8k</p> <p>0.24W</p> <p>3</p> <p>1.4 0.1</p> <p>1.6 7.5</p> <p>+90</p> <p>8k</p> <p>0.24W</p>
DL41 P	<p>S=2.45mA/V Vg1=-3.6V Ri=90k Wa=1.2W max.</p> <p>3.1</p> <p>0.05</p> <p>2.6</p> <p>3.1</p> <p>0.1 1.4</p> <p>1.3 8</p> <p>+90</p> <p>11.3k</p> <p>0.33W</p> <p>3.1</p> <p>0.1 1.4</p> <p>1.3 8</p> <p>+90</p> <p>11.3k</p> <p>0.33W</p>
DL65 P	<p>S=0.42 P=0.3MΩ V=0</p> <p>1.8mW</p> <p>0.1MΩ</p> <p>0.5 0.08 0.013</p> <p>1.25</p> <p>+22.5</p> <p>10MΩ</p> <p>0.42</p> <p>0.3MΩ</p> <p>0</p> <p>DL65</p> <p>P</p>
DL66 P	<p>S=0.35 P=0.3MΩ V=-1.4</p> <p>0.3</p> <p>0.07 0.015</p> <p>1.2</p> <p>+22.5</p> <p>-1.4</p> <p>0.35</p> <p>0.3MΩ</p> <p>-1.4</p> <p>DL66</p> <p>P</p>

DL67

P

DL67

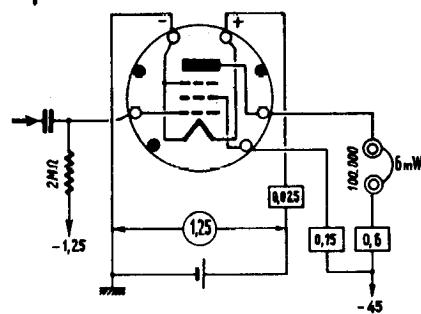
P

 $S = 0,42$
 $P = 0,4 \text{ M}\Omega$
 $V = 0$
**DL71**

P

DL71

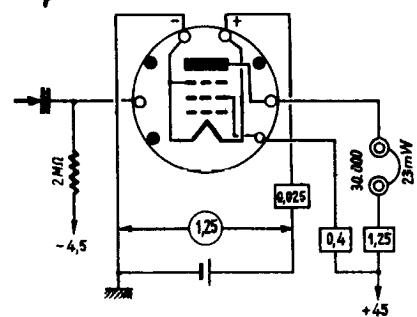
P

 $S = 0,5$
 $P = 0,35 \text{ M}\Omega$
 $V = -1,25$
**DL72**

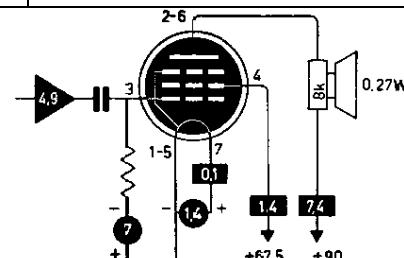
P

DL72

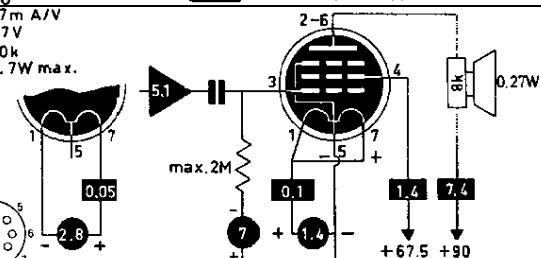
P

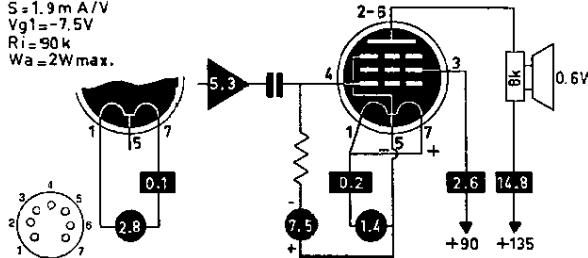
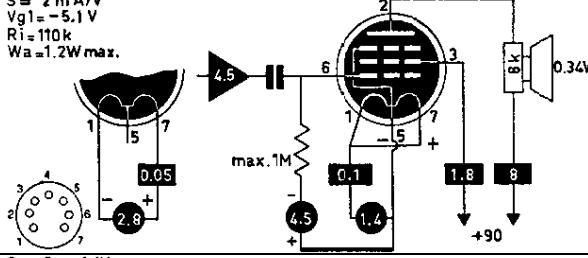
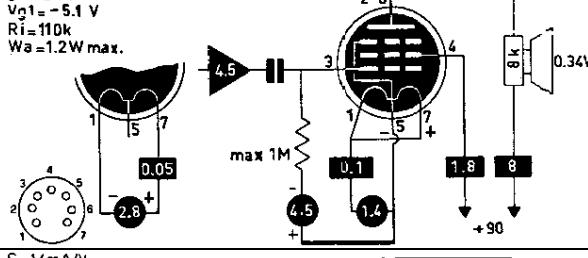
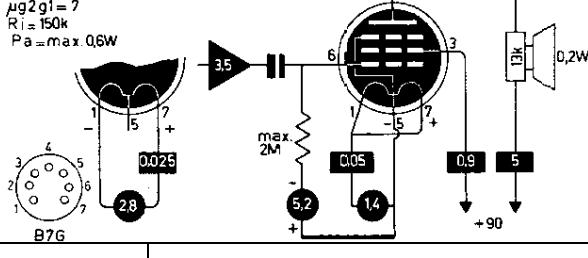
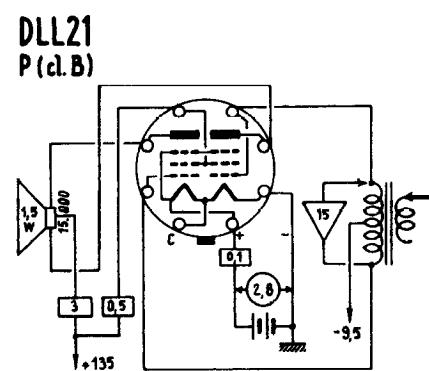
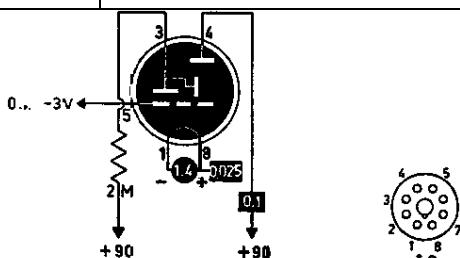
 $S = 0,5$
 $P = 0,225 \text{ M}\Omega$
 $V = -4,5$
**DL91**

P

 $S = 1,57 \text{ mA/V}$
 $R_i = 100k$
**DL92**

P

 $S = 1,57 \text{ mA/V}$
 $V_{g1} = -7 \text{ V}$
 $R_i = 100k$
 $W_a = 0,7 \text{ W max.}$


DL93 P	S = 1.9 mA/V $V_{g1} = -7.5 V$ $R_1 = 90 k\Omega$ $W_a = 2 W \text{ max.}$	
DL94 P	S = 2 mA/V $V_{g1} = -5.1 V$ $R_1 = 110 k\Omega$ $W_a = 1.2 W \text{ max.}$	
DL95 P	S = 2 mA/V $V_{g1} = -5.1 V$ $R_1 = 110 k\Omega$ $W_a = 1.2 W \text{ max.}$	
DL96 P	S = 1.4 mA/V $\mu g_2 g_1 = 7$ $R_1 = 150 k\Omega$ $P_a = \text{max } 0.6 W$	
DLL21 PP		
DM21 ti		

DM70 ti	
DM71 ti	
DY30 R	<p>EHT $V_{a\ inv.\ p} = \text{max. } 30\text{kV}$ $I_{a\ p} = \text{max. } 17\text{mA}$</p>
DY51 R	<p>EHT $V_{a\ inv.\ p} = \text{max. } 15\text{kV}$ $I_{a\ p} = \text{max. } 40\text{mA}$</p>
DY80 R	<p>EHT $V_{a\ inv.\ p} = \text{max. } 23\text{kV}$ $I_{a\ p} = \text{max. } 10\text{mA}$</p>
DY86 R	<p>EHT $V_{a\ inv.\ p} = \text{max. } 27\text{kV}$ $I_{a\ p} = \text{max. } 40\text{mA}$</p>
DY87 R	<p>EHT $V_{a\ inv.\ p} = \text{max. } 27\text{kV}$ $I_{a\ p} = \text{max. } 40\text{mA}$</p>

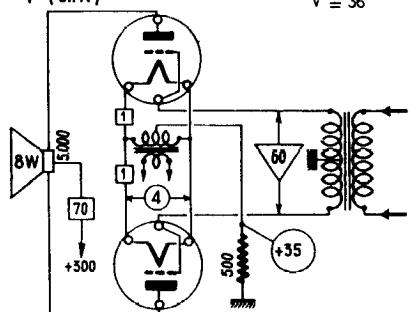
E t	E BF <p style="text-align: right;"> $S = 0.4$ $\rho = 25.000$ $V = -4$ </p>
E180F p	<p style="text-align: center;"> $S = 15.9 \text{ mA/V}$ $\mu g_2 g_1 = 50$ $R_i = 90 \text{ k}$ $P_a = \text{max. } 3 \text{ W}$ $\text{Req.} = 460$ </p>
E188CC tt	<p style="text-align: center;"> $S = 12.5 \text{ mA/V}$ $\mu = 33$ $P_a = \text{max. } 1.65 \text{ W}$ $\text{Req.} = 250$ </p>
E280F p	<p style="text-align: center;"> $S = 26 \text{ mA/V}$ $\mu g_2 g_1 = 60$ $R_i = 100 \text{ k}$ $P_a = \text{max. } 4 \text{ W}$ $\text{Req.} = 220$ </p>
E283CC tt	<p style="text-align: center;"> $S = 1.5 \text{ mA/V}$ $\mu = 100$ $R_i = 62.5$ $P_a = \text{max. } 1.2 \text{ W}$ </p>
E288CC tt	<p style="text-align: center;"> $S = 18 \text{ mA/V}$ $\mu = 25$ $R_i = 1.4 \text{ k}$ $P_a = \text{max. } 3 \text{ W}$ $\text{Req.} = 200$ </p>

E406N

T

E406N

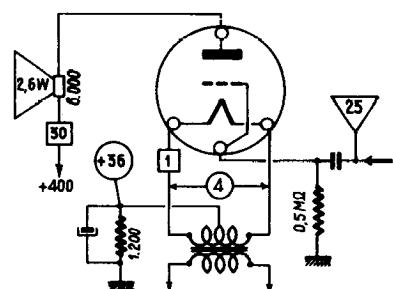
P (cl. A)

 $S = 3,5$
 $P = 1.700$
 $V = 36$
**E408N**

T

E408N

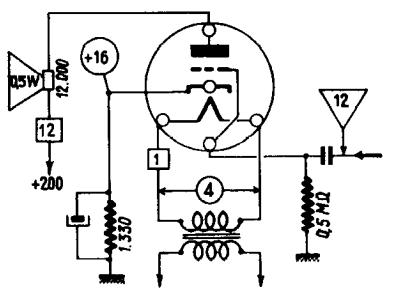
P

 $S = 2,7$
 $P = 3.000$
 $V = -36$
**E409**

T

E409

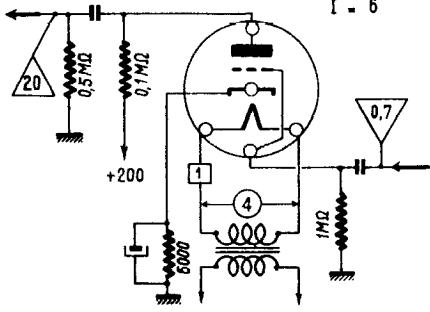
P

 $S = 1,7$
 $P = 7.000$
 $V = -16$
**E415**

t

E415

BF

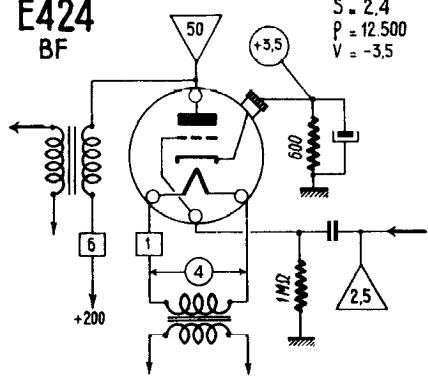
 $S = 1,4$
 $P = 11.000$
 $V = -8$
 $I = 6$


E424

t

E424

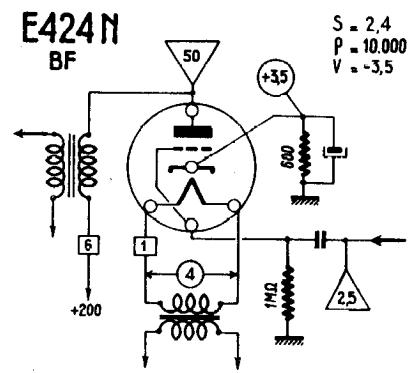
BF

 $S = 2,4$
 $P = 12.500$
 $V = -3,5$
**E424N**

t

E424 N

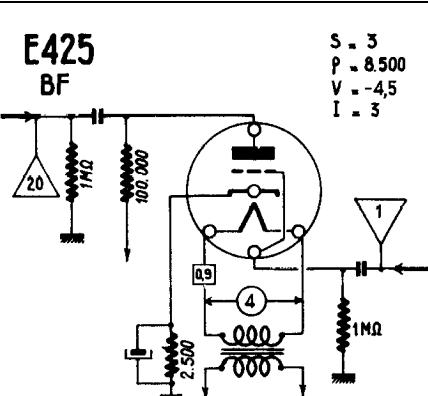
BF

 $S = 2,4$
 $P = 10.000$
 $V = -3,5$
**E425**

t

E425

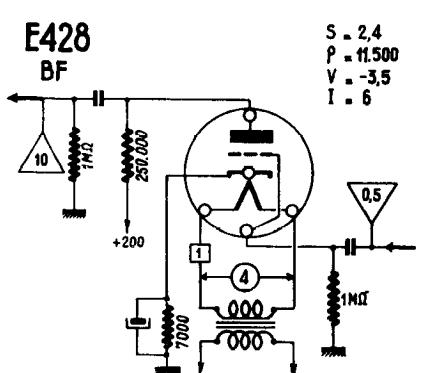
BF

 $S = 3$
 $P = 8.500$
 $V = -4,5$
 $I = 3$
**E428**

t

E428

BF

 $S = 2,4$
 $P = 11.500$
 $V = -3,5$
 $I = 6$


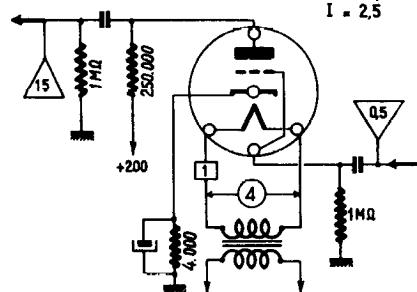
E438

t

E438

BF

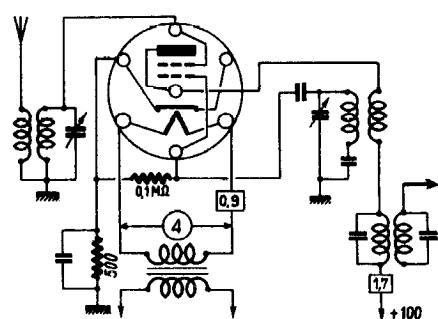
$S = 1,5$
 $P = 35.000$
 $V = -2,5$
 $I = 2,5$

**E441**

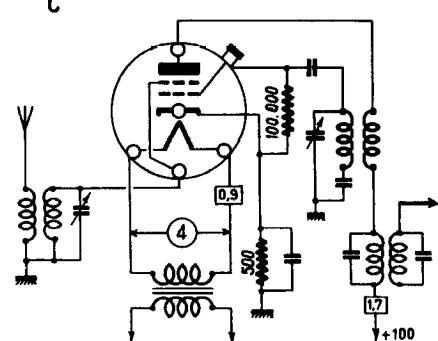
q

E441

c

 $S_c = 0,1$ **E441**

c

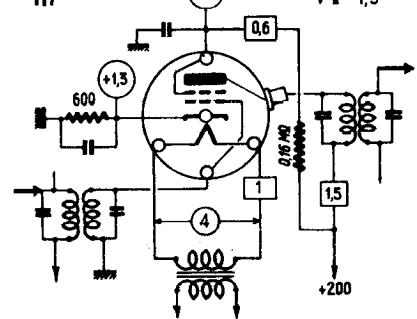
 $S_c = 0,1$ **E442**

q

E442

HF

$S = 0,9$
 $P = 0,8 \text{ M}\Omega$
 $V = -1,3$

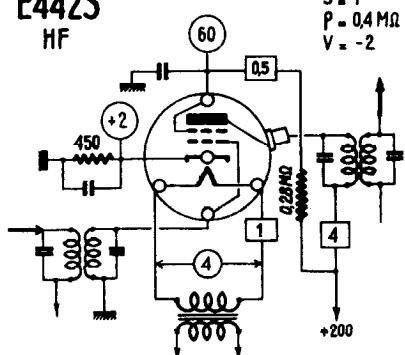


E442S

q

E442S

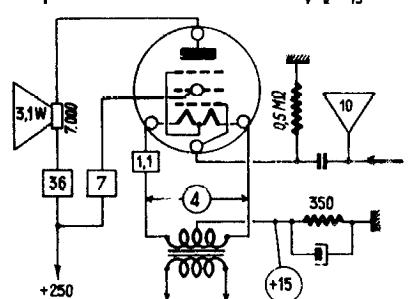
HF

 $S = 1$
 $P = 0,4 \text{ M}\Omega$
 $V = -2$
**E443H**

P

E443H

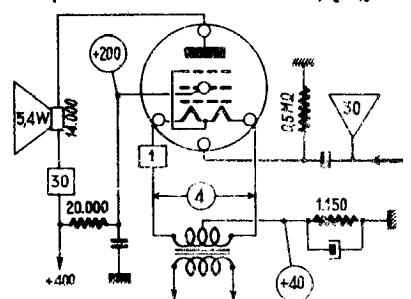
P

 $S = 2,8$
 $P = 43.000$
 $V = -15$
**E443N**

P

E443N

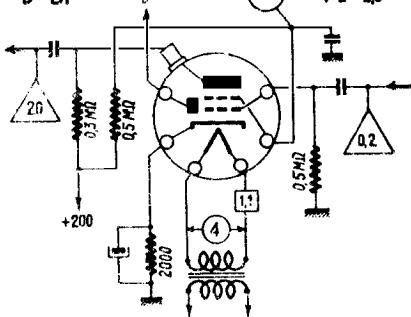
P

 $S = 1,9$
 $P = 40.000$
 $V = -40$
**E444**

dq

E444

D+BF

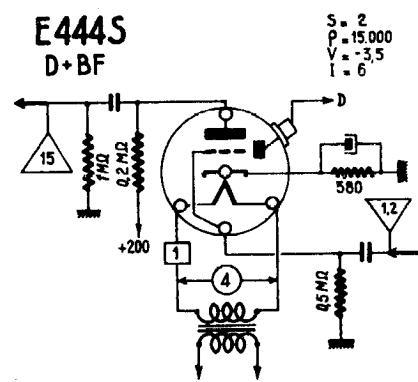
 $S = 3$
 $P = 2,5 \text{ M}\Omega$
 $V = -2,3$


E444S

dt

E444S

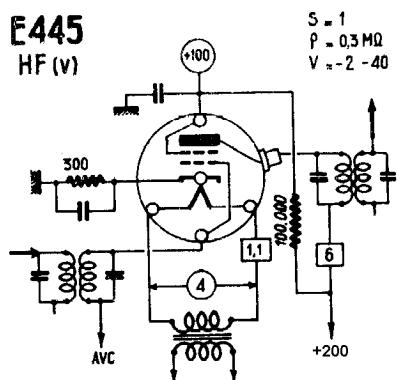
D+BF

**E445**

q

E445

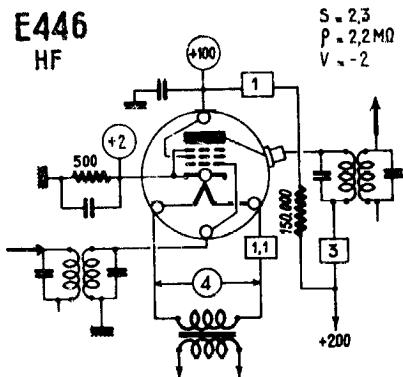
HF (v)

**E446**

p

E446

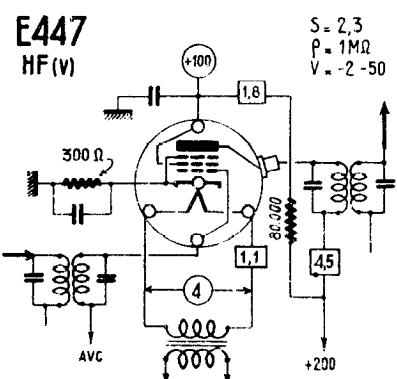
HF

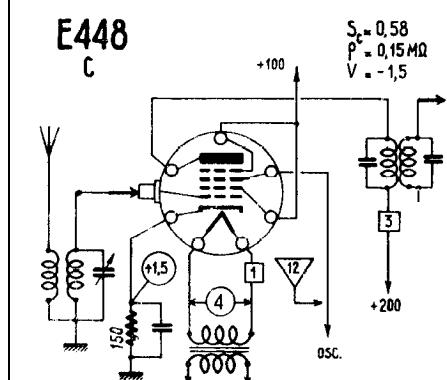
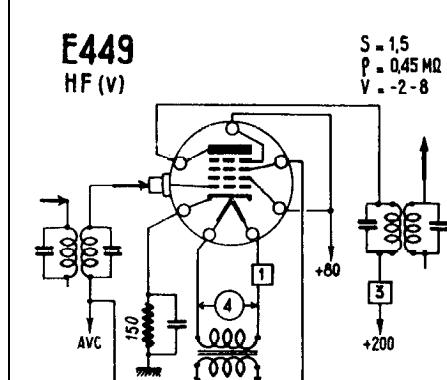
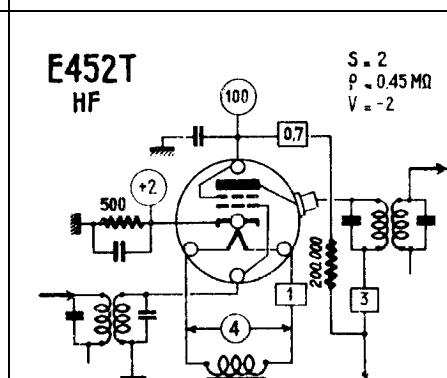
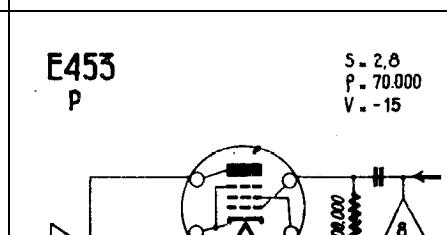
**E447**

p

E447

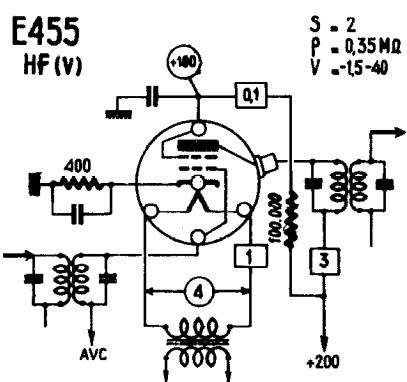
HF (v)



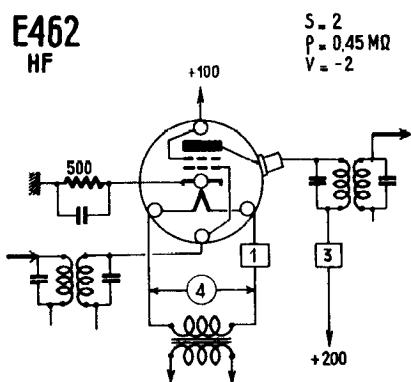
E448 h	E448 c  <p>$S = 0,58$ $P = 0,15 \text{ MW}$ $V = -1,5$</p>
E449 h	E449 HF (v)  <p>$S = 1,5$ $P = 0,45 \text{ MW}$ $V = -2-8$</p>
E452T q	E452T HF  <p>$S = 2$ $P = 0,45 \text{ MW}$ $V = -2$</p>
E453 P	E453 P  <p>$S = 2,8$ $P = 70.000$ $V = -15$</p>

E455

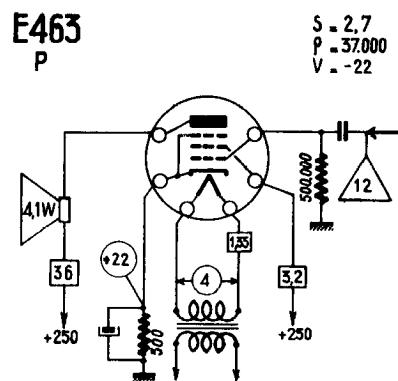
q

**E462**

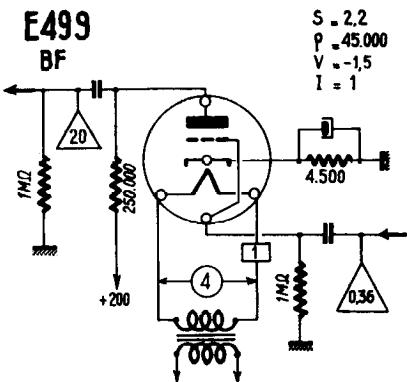
q

**E463**

P

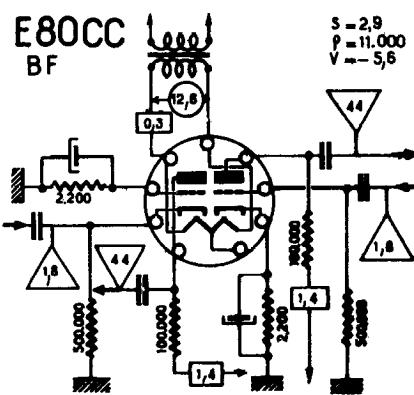
**E499**

t



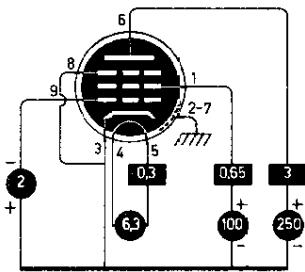
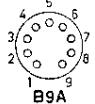
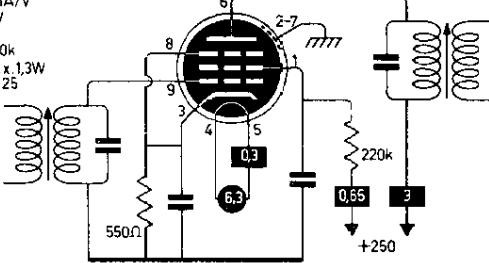
E80CC

tt

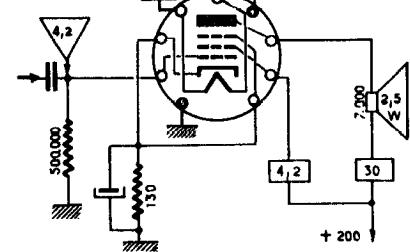
**E80F**

p

$S = 1,85 \text{ mA/V}$
 $V_{g1} = -2V$
 $R_i = 15M$
 $R_{eq} = 40k$
 $P_a = \text{max. } 1,3W$
 $\mu g_2 g_1 = 25$

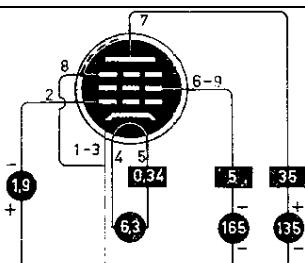
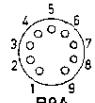
**E80L**

$S = 9$
 $V = -4,5$

**E180F**

p

$S = 50 \text{ mA/V}$
 $\mu g_2 g_1 = 57$
 $P_a = \text{max. } 5W$
 $R_{eq} = 100$

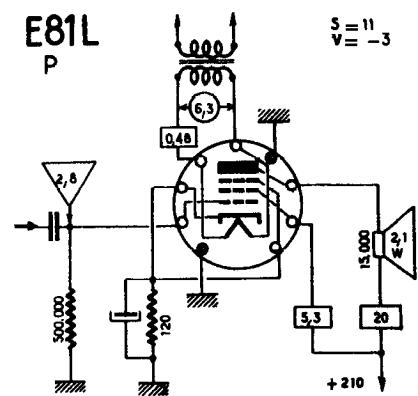


E81L

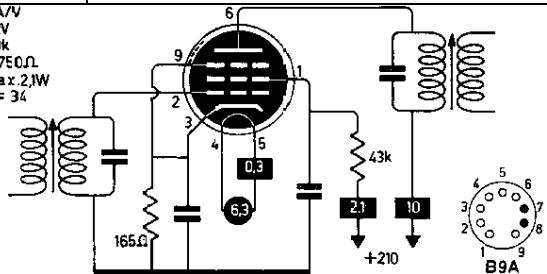
P

E81L

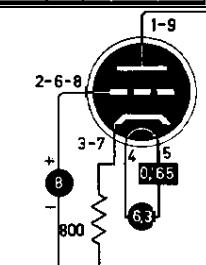
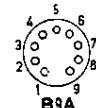
P

 $S = 11$ $V = -3$ **E83F**

p

 $S = 9 \text{ mA/V}$ $V_{g1} = -2 \text{ V}$ $R_i = 500 \text{ k}\Omega$ $\text{Req.} = 750 \text{ }\Omega$ $P_a = \text{max. } 2.1 \text{ W}$ $\mu g_2 g_1 = 34$ **E86C**

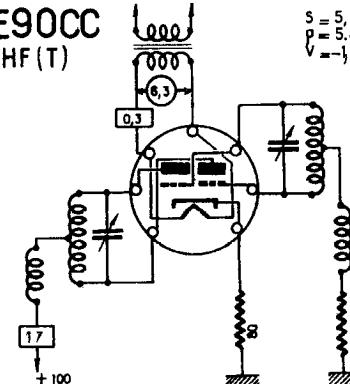
t

 $S = 14 \text{ mA/V}$ $\mu = 68$ $R_i = 5 \text{ k}\Omega$ $P_a = \text{max. } 2.4 \text{ W}$ $\text{Req.} = 250$ **E90CC**

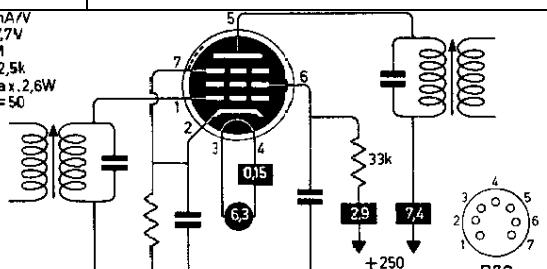
tt

E90CC

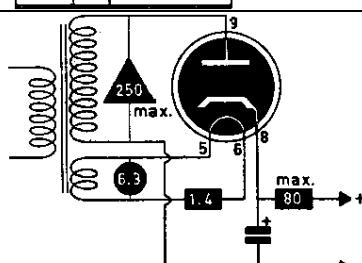
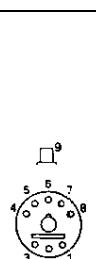
HF(T)

 $S = 5,6$ $P = 5.400$ $V = -15$ **E90F**

p

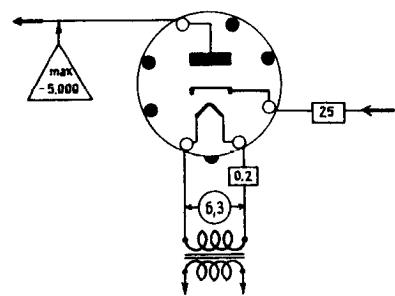
 $S = 4,5 \text{ mA/V}$ $V_{g1} = -7,7 \text{ V}$ $R_i = 1,3 \text{ M}\Omega$ $\text{Req.} = 2,5 \text{ k}\Omega$ $P_a = \text{max. } 2.6 \text{ W}$ $\mu g_2 g_1 = 50$ **EA111**

r

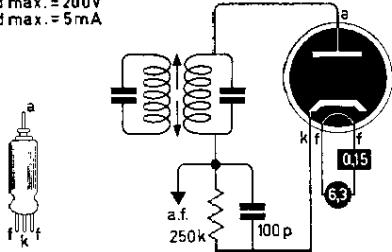


EA40

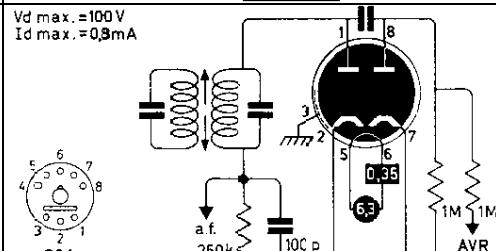
d

**EA40
D (T)** $R = 300 \Omega$ **EA50**

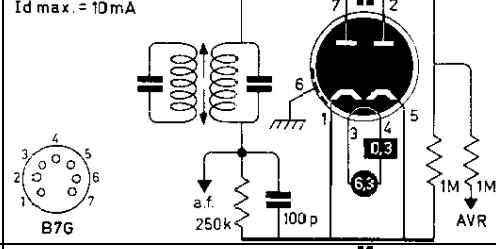
d

Vd max. = 200V
Id max. = 5 mA**EAA11**

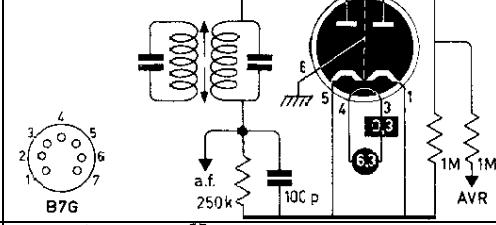
dd

Vd max. = 100V
Id max. = 0.3 mA**EAA901S**

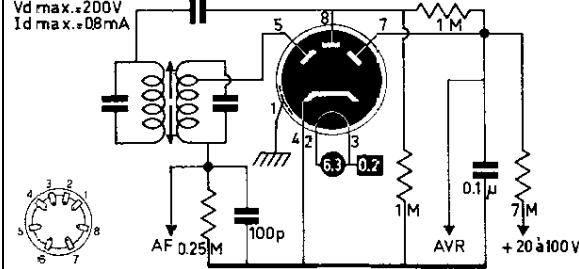
dd

Vd max. = 360V
Id max. = 10 mA**EAA91**

dd

Vd max. = 100V
Id max. = 9 mA**EAB1**

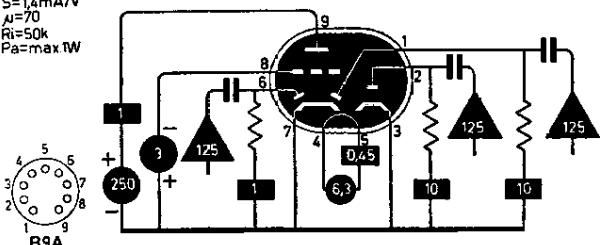
ddd

Vd max. = 200V
Id max. = 0.8 mA

EABC80

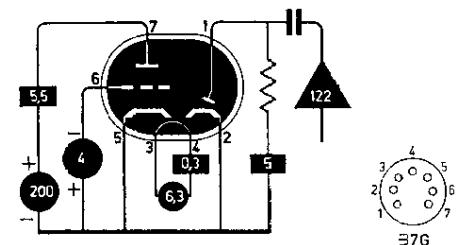
dddt

$S=1.4\text{ mA/V}$
 $\mu=70$
 $R_i=50\text{k}$
 $P_a=\text{max } 1\text{W}$

**EAC91**

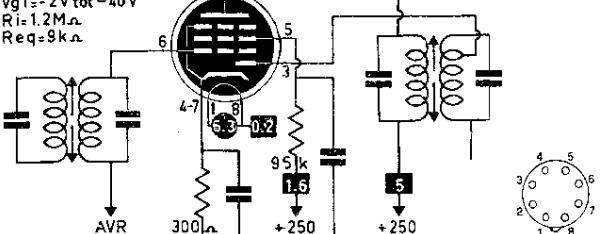
dt

$S=2.5\text{ mA/V}$
 $\mu=31$
 $R_i=12.4\text{k}$
 $P_a=\text{max } 2\text{W}$

**EAF41**

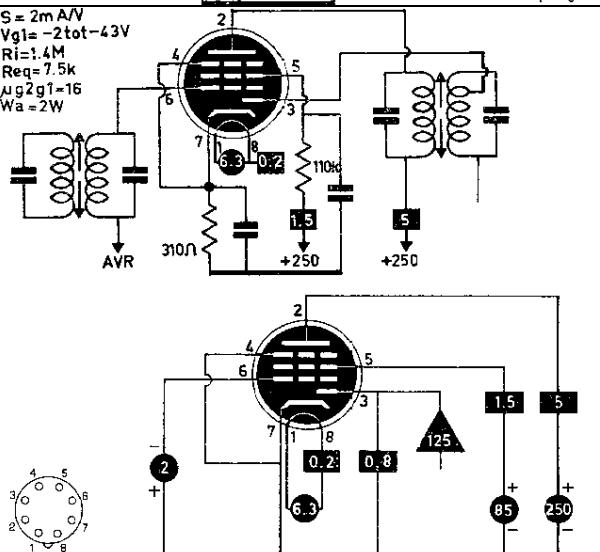
dp

$S=1.8\text{ mA/V}$
 $V_{g1}=-2\text{V tot } -40\text{V}$
 $R_i=1.2\text{ M}\Omega$
 $R_{eq}=9\text{ k}\Omega$

**EAF42**

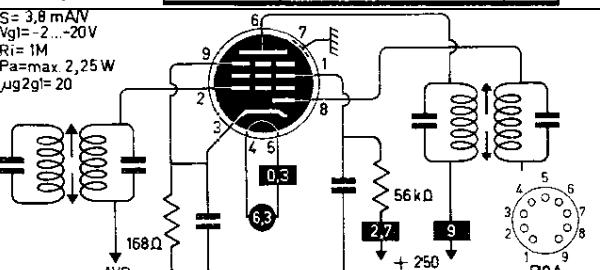
dp

$S=2\text{ mA/V}$
 $V_{g1}=-2\text{ tot } -43\text{V}$
 $R_i=1.4\text{M}$
 $R_{eq}=7.5\text{k}$
 $\mu g^2 g_1=16$
 $W_a=2\text{W}$

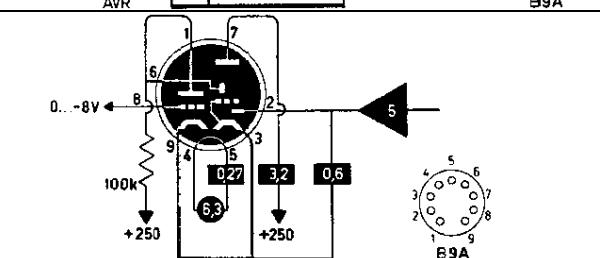
**EAF801**

dp

$S=3.8\text{ mA/V}$
 $V_{g1}=-2\text{ ... } -20\text{V}$
 $R_i=1\text{M}$
 $P_a=\text{max } 2.25\text{ W}$
 $\mu g^2 g_1=20$

**EAM86**

dti

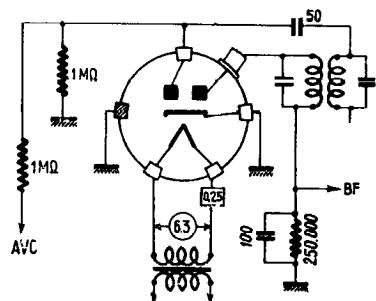


EB1

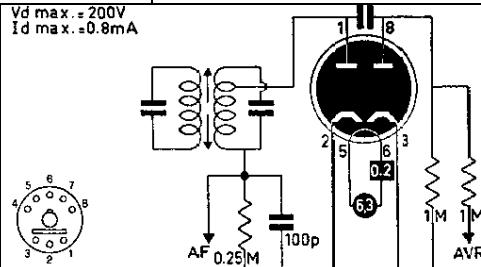
dd

EB1

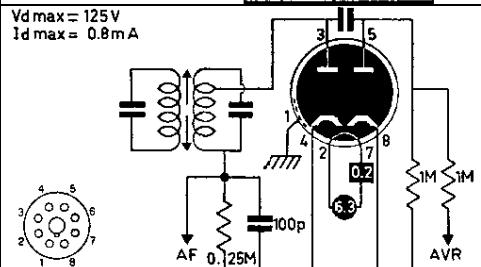
D

 $I_{max} = 0,8 \text{ mA}$ **EB11**

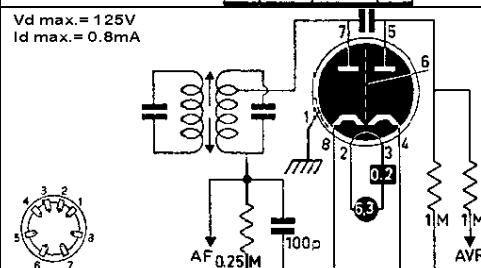
dd

 $V_d \text{ max.} = 200V$
 $I_d \text{ max.} = 0,8 \text{ mA}$ **EB34**

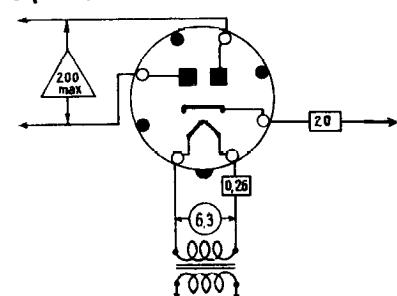
dd

 $V_d \text{ max.} = 125V$
 $I_d \text{ max.} = 0,8 \text{ mA}$ **EB4**

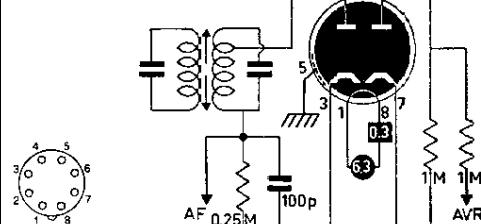
dd

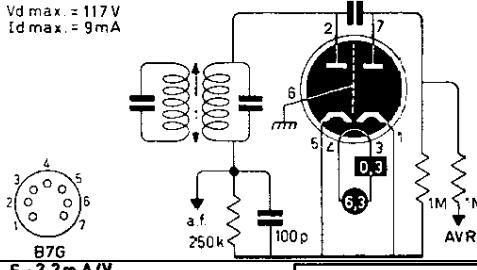
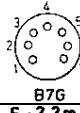
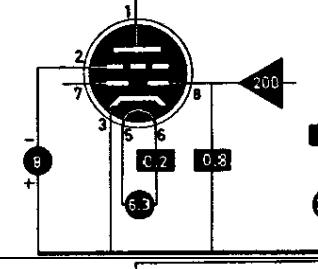
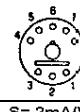
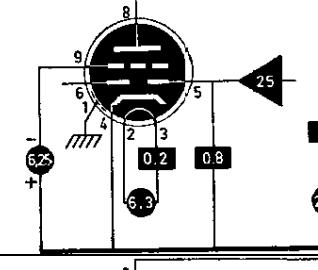
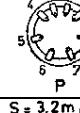
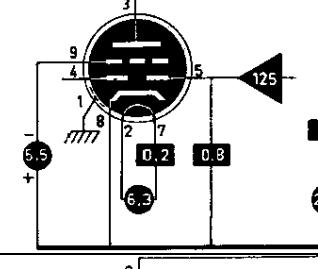
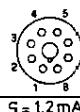
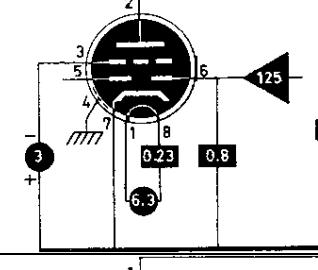
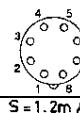
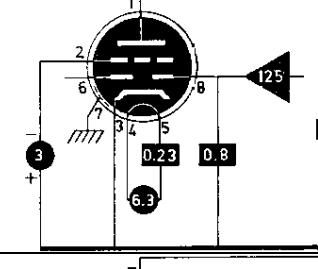
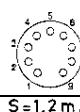
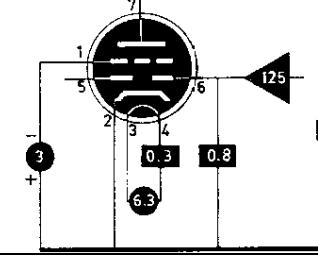
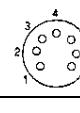
 $V_d \text{ max.} = 125V$
 $I_d \text{ max.} = 0,8 \text{ mA}$ **EB40**

dd

EB40
D (UHF)**EB41**

dd

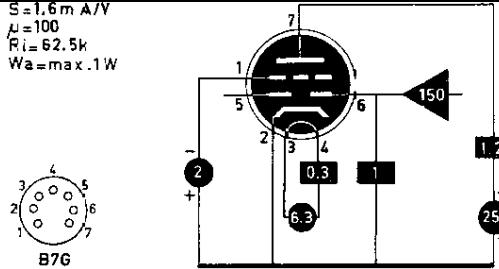
 $V_d \text{ max.} = 150V$
 $I_d \text{ max.} = 9 \text{ mA}$ 

EB91 dd	Vd max. = 117 V Id max. = 9 mA  
EBC11 ddt	S = 2.2 mA/V $\mu = 25$ $R_i = 11.5 k\Omega$ $W_a = \text{max. } 1.5 W$  
EBC3 ddt	S = 2 mA/V $\mu = 30$ $R_i = 15 k\Omega$ $W_a = \text{max. } 1.5 W$  
EBC33 ddt	S = 3.2 mA/V $\mu = 30$ $R_i = 15 k\Omega$ $W_a = \text{max. } 1.5 W$  
EBC41 ddt	S = 1.2 mA/V $\mu = 70$ $R_i = 58 k\Omega$ $W_a = \text{max. } 0.5 W$  
EBC81 ddt	S = 1.2 mA/V $\mu = 70$ $R_i = 58 k\Omega$ $W_a = \text{max. } 0.5 W$  
EBC90 ddt	S = 1.2 mA/V $\mu = 70$ $R_i = 58 k\Omega$ $W_a = \text{max. } 0.5 W$  

EBC91

ddt

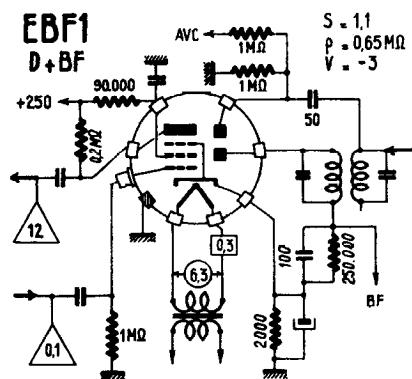
$S = 1.6 \text{ mA/V}$
 $\mu = 100$
 $R_i = 62.5\text{k}$
 $W_a = \text{max. } 1\text{W}$

**EBF1**

ddp

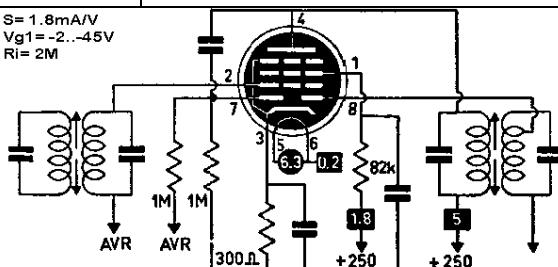
EBF1

D + BF

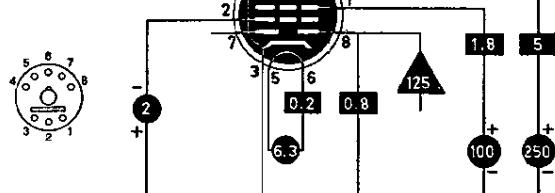
**EBF11**

ddp

$S = 1.8 \text{ mA/V}$
 $V_{g1} = -2..-45\text{V}$
 $R_i = 2\text{M}$

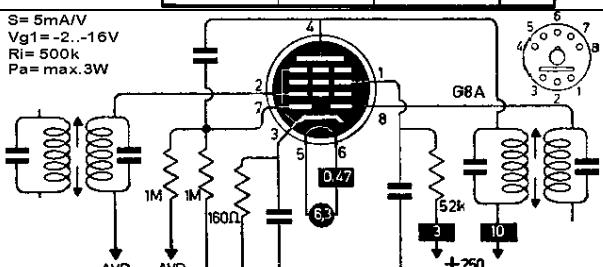


$S = 1.8 \text{ mA/V}$
 $\mu g_2 g_1 = 19$
 $R_i = 2\text{M}$
 $W_a = \text{max. } 1.5\text{W}$

**EBF15**

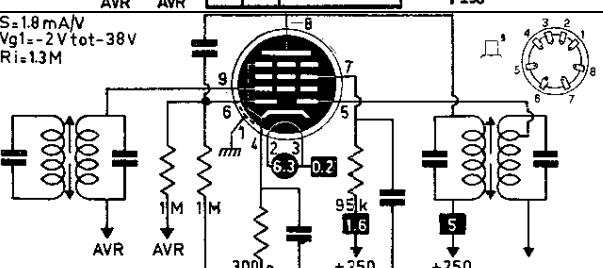
ddp

$S = 5 \text{ mA/V}$
 $V_{g1} = -2..-16\text{V}$
 $R_i = 500\text{k}$
 $P_a = \text{max. } 3\text{W}$

**EBF2**

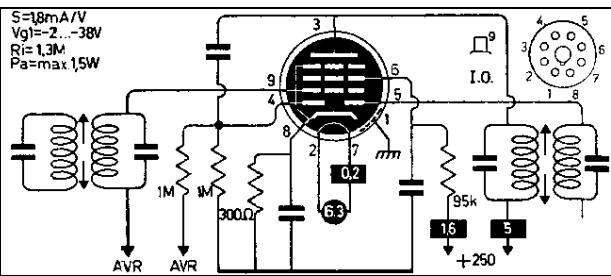
ddp

$S = 1.8 \text{ mA/V}$
 $V_{g1} = -2\text{V tot } -38\text{V}$
 $R_i = 1.3\text{M}$

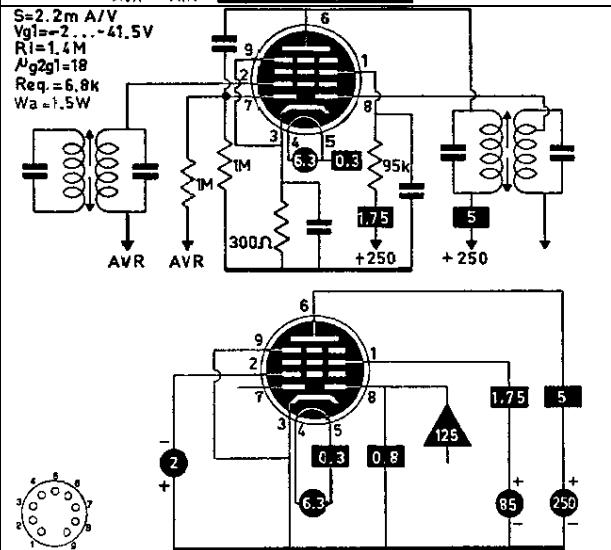


EBF32

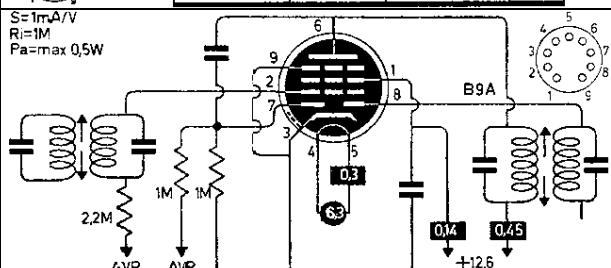
ddp

**EBF80**

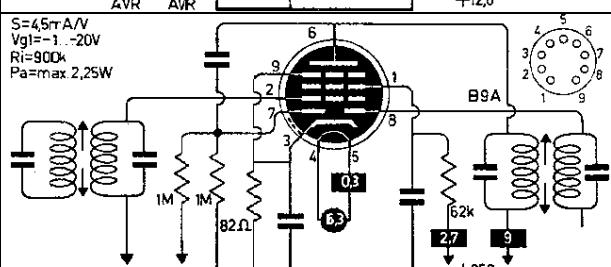
ddp

**EBF83**

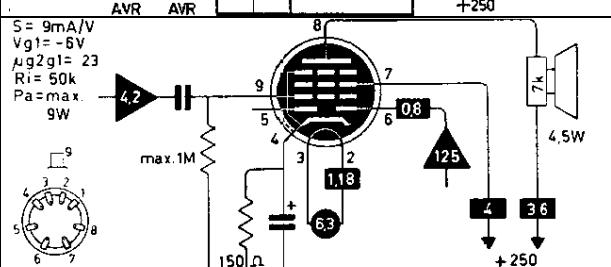
ddp

**EBF89**

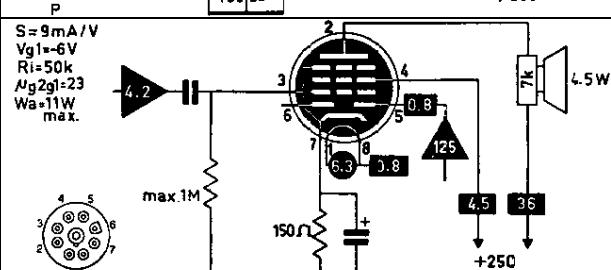
ddp

**EBL1**

ddP

**EBL21**

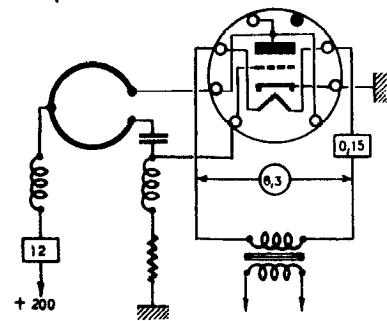
ddP



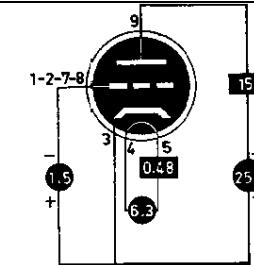
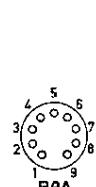
EBL31 ddp	<p>S=9.5 mA/V Vg1=-6V Ri=55k Wa=9W max.</p>
EBL71 ddp	<p>S=9.5 mA/V Vg1=-5.2k Ri=50k Wa=11W max.</p>
EC2 t	<p>EC2 BF</p> <p>S = 2.5 P = 12.000 V = -5.5</p>
EC31 t	<p>EC31</p> <p>S=3.2 mA/V $\mu=10.5$ Ri=3.3k Wa=max.5W</p>
EC50 t°	<p>EC50</p> <p>F_{max}=50 kHz</p>

EC70

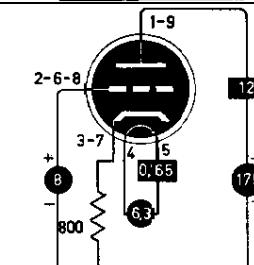
t~

**EC70
O (UHF)** $S=3,5$
 $\mu=4.000$
 $V=-8$ **EC80**

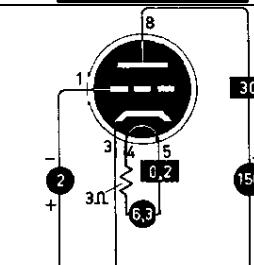
t

 $S=12\text{ mA/V}$
 $\mu=80$
 $R_i=6.5\text{k}$
 $P_a=\text{max. } 4\text{W}$ **EC806S**

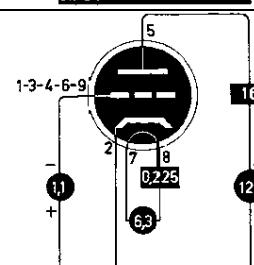
t

 $S=1.4\text{ mA/V}$
 $\mu=68$
 $R_i=5\text{k}$
 $P_a=\text{max. } 2.4\text{W}$
 $R_{eq}=250$ **EC81**

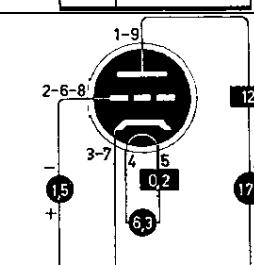
t

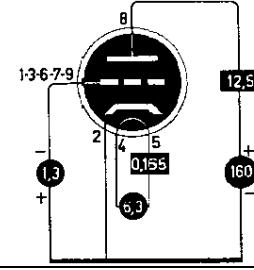
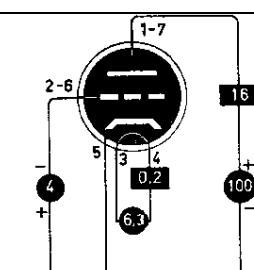
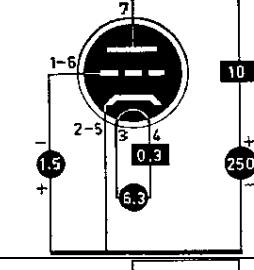
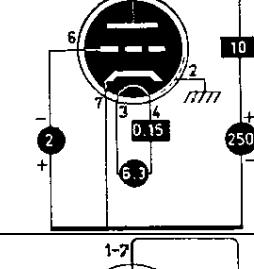
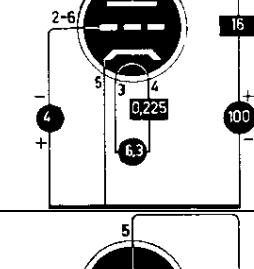
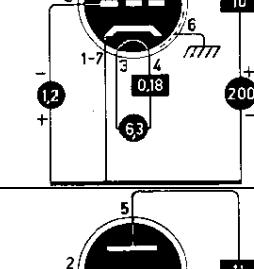
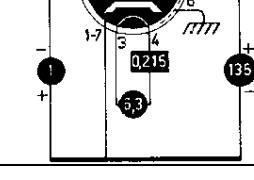
 $S=5.5\text{ mA/V}$
 $\mu=16$
 $R_i=3\text{k}$
 $P_a=\text{max. } 3.5\text{W}$ **EC84**

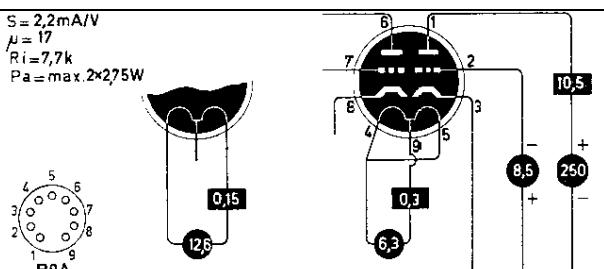
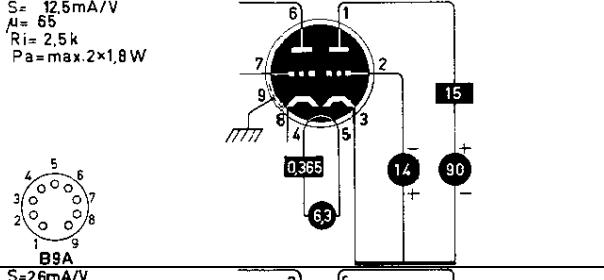
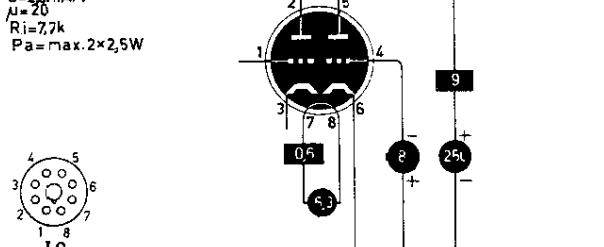
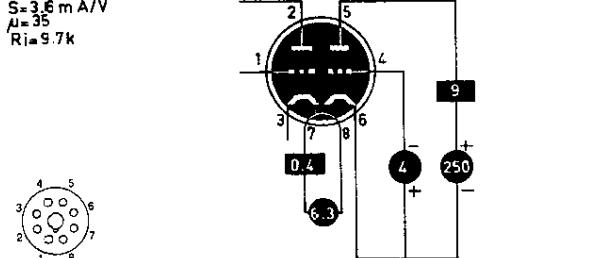
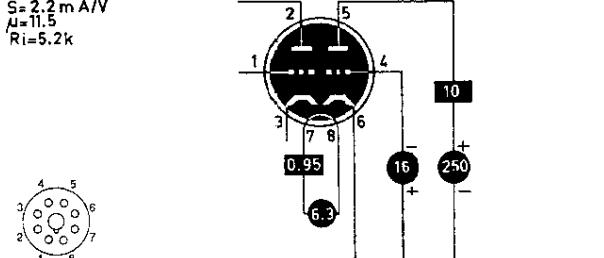
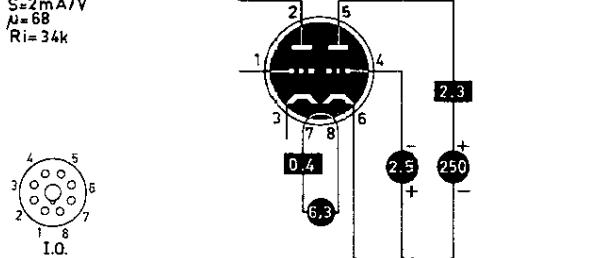
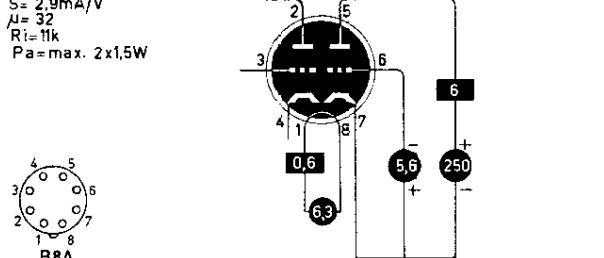
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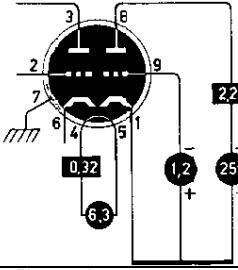
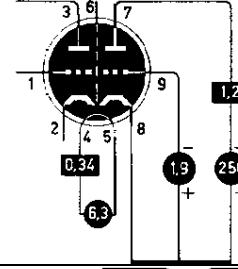
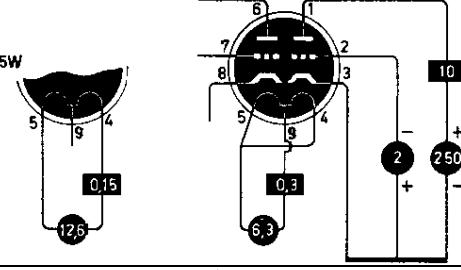
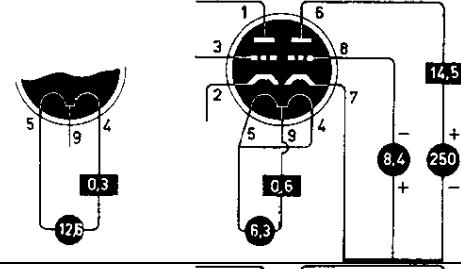
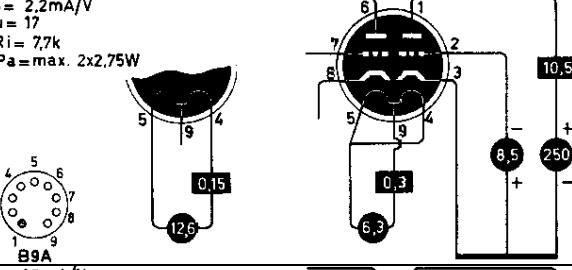
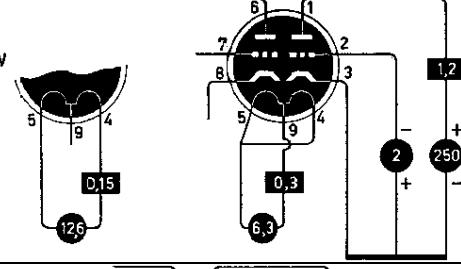
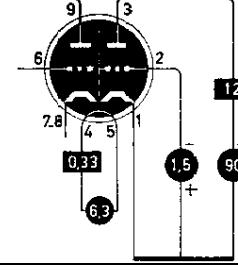
 $S=10\text{ mA/V}$
 $\mu=110$
 $R_i=4.2\text{k}$
 $P_a=\text{max. } 2.5\text{W}$ **EC86**

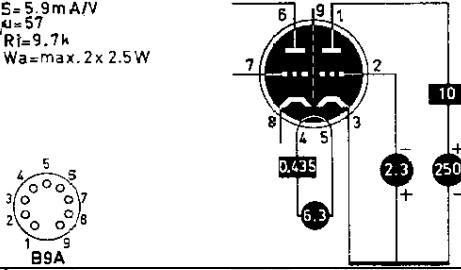
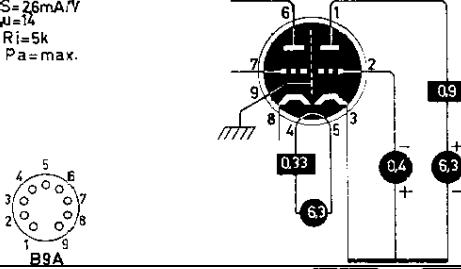
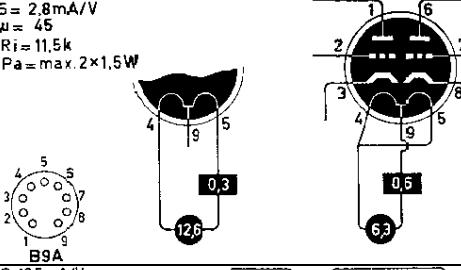
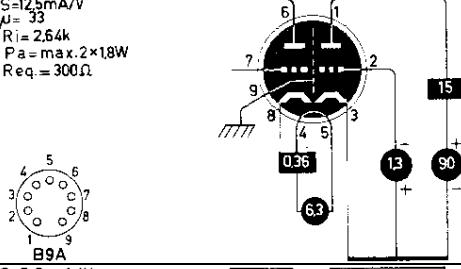
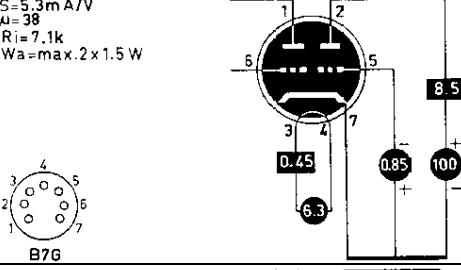
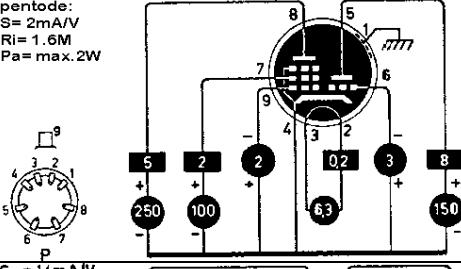
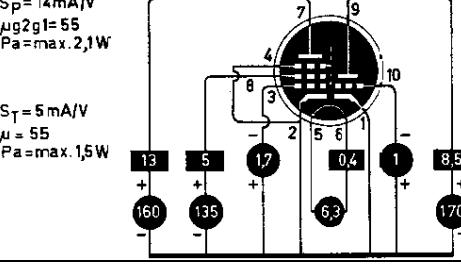
t

 $S=14\text{ mA/V}$
 $\mu=68$
 $P_a=\text{max. } 2.2\text{W}$
 $R_{eq}=230\Omega$ 

EC88 t	S=13,5 mA/V $\mu=65$ $P_a=\text{max. } 2W$ $R_i=240 \Omega$	
EC90 EC903 t	S= 6 mA/V $\mu=15$ $R_i=1,9k$ $P_a=\text{max. } 2W$	
EC91 t	S=8,5 mA/V $\mu=100$ $R_i=12k$ $P_a=\text{max. } 2,5W$	
EC92 t	S=5mA/V $\mu=60$ $R_i=12k$ $P_a=\text{max. } 2,5W$	
EC93 t	S=8mA/V $\mu=15$ $R_i=1,9k$ $P_a=\text{max. } 2,25W$	
EC95 t	S= 10,5mA/V $\mu=80$ $P_a=\text{max. } 2,2W$	
EC97 t	S=13mA/V $\mu=65$ $R_i=5k$ $P_a=\text{max. } 2,2W$	

ECC186 tt	S=2,2mA/V $\mu=17$ $R_i=7,7k$ $P_a=\text{max. } 2 \times 2,75W$	
ECC189 tt	S=12,5mA/V $\mu=65$ $R_i=2,5k$ $P_a=\text{max. } 2 \times 1,8W$	
ECC32 tt	S=2,6mA/V $\mu=20$ $R_i=7,7k$ $P_a=\text{max. } 2 \times 2,5W$	
ECC33 tt	S=3,6 mA/V $\mu=35$ $R_i=9.7k$	
ECC34 tt	S=2,2 mA/V $\mu=11,5$ $R_i=5,2k$	
ECC35 tt	S=2mA/V $\mu=68$ $R_i=34k$	
ECC40 tt	S=2,9mA/V $\mu=32$ $R_i=11k$ $P_a=\text{max. } 2 \times 1,5W$	

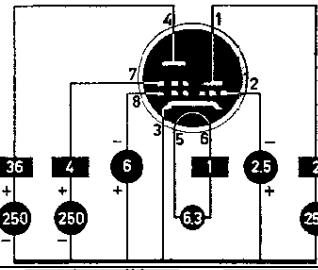
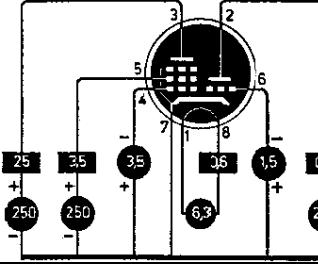
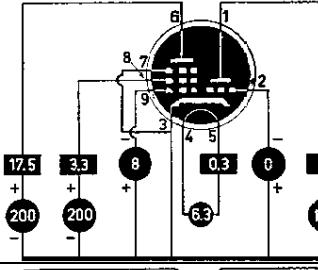
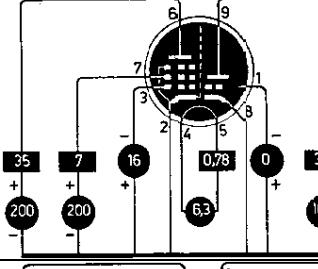
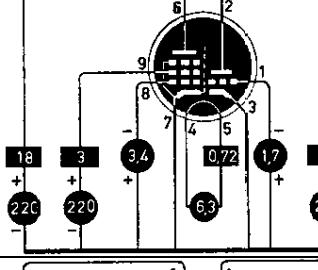
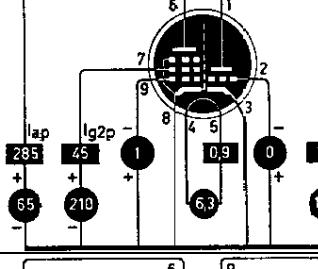
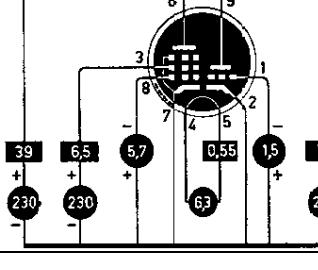
ECC807 tt	S=3,3mA/V $\mu=140$ $R_i=42k$ $P_a=\text{max. } 2 \times 1W$	
ECC808 tt	S=1,6mA/V $\mu=100$ $R_i=60k$ $P_a=\text{max. } 0,5W$	
ECC81 tt	S=5,5mA/V $\mu=60$ $R_i=11k$ $P_a=\text{max. } 2 \times 2,5W$	
ECC813 tt	S=5,2mA/V $\mu=20$ $R_i=3,8k$ $P_a=\text{max. } 4W$	
ECC82 tt	S=2,2mA/V $\mu=17$ $R_i=7,7k$ $P_a=\text{max. } 2 \times 2,75W$	
ECC83 tt	S=1,6mA/V $\mu=100$ $R_i=62,5k$ $P_a=\text{max. } 2 \times 1W$	
ECC84 tt	S=6mA/V $\mu=24$ $R_i=4k$ $P_a=\text{max. } 2 \times 2W$	

ECC85 tt	S= 5.9 mA/V $\mu=57$ $R_i=9.7\text{k}$ $P_a=\text{max. } 2.5\text{W}$	
ECC86 tt	S= 26 mA/V $\mu=14$ $R_i=5\text{k}$ $P_a=\text{max.}$	
ECC87 tt	S= 2.8 mA/V $\mu=45$ $R_i=11.5\text{k}$ $P_a=\text{max. } 2 \times 1.5\text{W}$	
ECC88 tt	S= 12.5 mA/V $\mu=33$ $R_i=2.64\text{k}$ $P_a=\text{max. } 2 \times 1.8\text{W}$ $R_{eq}=300\Omega$	
ECC91 tt	S= 5.3 mA/V $\mu=38$ $R_i=7.1\text{k}$ $P_a=\text{max. } 2 \times 1.5\text{W}$	
ECF1 tp	pentode: S= 2 mA/V $R_i=1.6\text{M}$ $P_a=\text{max. } 2\text{W}$	
ECF200 tp	$S_p=14\text{mA/V}$ $\mu_{g2g}=55$ $P_a=\text{max. } 2.1\text{W}$ $S_T=5\text{mA/V}$ $\mu=55$ $P_a=\text{max. } 1.5\text{W}$	

ECF201 tp	$S_p = 12 \text{ mA/V}$ $\mu g_2 g_1 = 45$ $P_a = \text{max. } 2,1 \text{ W}$	
ECF80 tp	$S_p = 6,2 \text{ mA/V}$ $R_i = 400 \text{ k}$ $\mu g_2 g_1 = 47$ $P_a = \text{max. } 1,7 \text{ W}$ $R_{eq} = 1,5 \text{ k}$	
ECF801 tp	$S_p = 11 \text{ mA/V}$ $R_i = 350 \text{ k}$ $\mu g_2 g_1 = 55$ $P_a = \text{max. } 2 \text{ W}$ $R_{eq} = 1,5 \text{ k}$	
ECF82 tp	$S_p = 5,2 \text{ mA/V}$ $R_i = 400 \text{ k}$ $P_a = \text{max. } 2,8 \text{ W}$	
ECF83 tp	$S_p = 1,3 \text{ mA/V}$ $R_i = 600 \text{ k}$ $\mu g_2 g_1 = 10$ $P_a = \text{max. } 1 \text{ W}$	
ECF86 tp	$S_p = 12 \text{ mA/V}$ $R_i = 350 \text{ k}$ $\mu g_2 g_1 = 60$ $P_a = \text{max. } 2 \text{ W}$ $R_{eq} = 1 \text{ k}$	
ECH11 th	$S_c = 640 \mu A/V$ $V_{G1} = -2 \dots -16V$ $R_i = 1M$	

ECH200 tH	$P_a = \text{max. } 1\text{W}$		$S_T = 0.5\text{ mA/V}$ $\mu = 48$ $P_a = \text{max. } 1.5\text{W}$
ECH21 tH	$S_c = 750\text{ }\mu\text{A/V}$ $V_{g1} = -2 \dots -24.5\text{ V}$ $R_i = 1.4\text{ M}\Omega$ $R_{eq} = 55\text{ k}\Omega$ $S_T = 3.2\text{ mA/V max.}$		
ECH3 th	$S_c = 650\text{ }\mu\text{A/V}$ $V_{g1} = -2\text{ V} \dots -31\text{ V}$ $R_i = 1.3\text{ M}\Omega$ $S_T = 2.8\text{ mA/V max.}$		
ECH33 th			$S_c = 0.65$ $\mu = 1.3\text{ M}\Omega$ $V = -2 \dots -17$
ECH35 th	$S_c = 650\text{ }\mu\text{A/V}$ $V_{g1} = -2 \dots -31\text{ V}$ $R_i = 1.3\text{ M}\Omega$ $S_T = 2.8\text{ mA/V max.}$		
ECH4 tH	$S_c = 750\text{ }\mu\text{A/V}$ $V_{g1} = -2\text{ V} \dots -24.5\text{ V}$ $R_i = 1.4\text{ M}\Omega$ $S_T = 3.2\text{ mA/V max.}$ $R_{eq} = 55\text{ k}\Omega$		

ECH41 th	<p>$S_c = 500 \mu A/V$ $V_{g1} = -2V \dots -28V$ $R_{eq} = 170k$ $R_i = 2M$ $S_T = 2.8 \text{ mA/V max.}$</p>
ECH42 th	<p>$S_c = 750 \mu A/V$ $V_{g1} = -2V \dots -29V$ $R_i = 1M$ $R_{eq} = 100k$ $S_T = 2.8 \text{ mA/V max.}$</p>
ECH71 tH	<p>$S_c = 750 \mu A/V$ $V_{g1} = -2V \dots -25V$ $R_i = 1.4M$ $R_{eq} = 55k$ $S_T = 2 \text{ mA/V max.}$</p>
ECH81 tH	<p>$S_c = 775 \mu A/V$ $V_{g1} = -2V \dots -28.5V$ $R_i = 1M$ $R_{eq} = 70k$ $S_T = 3.7 \text{ mA/V max.}$</p>
ECH83 tH	<p>$S_c = 220 \mu A/V$ $V_{g1} =$ $R_i = 1.5M$ $R_{eq} =$ $S_T = 1.4 \text{ mA/V}$</p>
ECH84 tH	<p>$S_p = 2.2 \text{ mA/V}$ $P_a = \text{max. } 1.7W$</p> <p>$S_T = 3.7 \text{ mA/V}$ $\mu = 50$ $P_a = \text{max. } 1.3W$</p>
ECH84A tH	<p>$S_H g_1 = 2.2 \text{ mA/V}$ $S_H g_3 = 0.5 \text{ mA/V}$ $P_a = \text{max. } 1.7W$</p> <p>$S_T = 5.5 \text{ mA/V}$ $\mu = 35$ $P_a = \text{max. } 1.5W$</p>

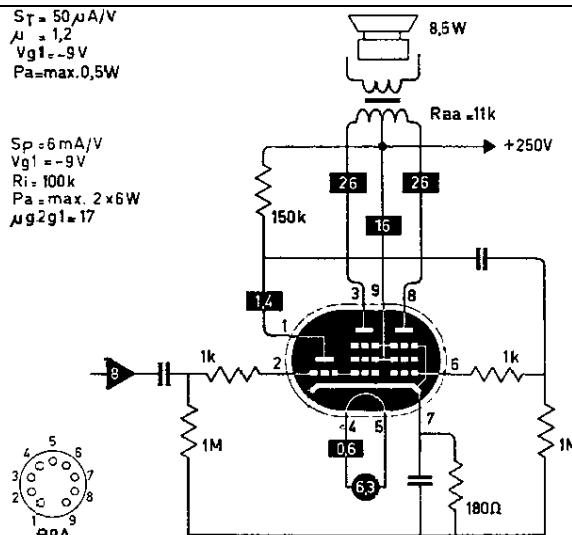
ECL11 tQ	$S_p = 9 \text{ mA/V}$ $R_i = 25k$ $\mu g2g1 = 25$ $P_a = \text{max } 9W$	 G8A	$S_T = 2 \text{ mA/V}$ $R_i = 35k$ $P_a = \text{max } 0.5W$
ECL13 tP	$S_p = 8.5 \text{ mA/V}$ $R_i = 40k$ $P_a = \text{max } 6.5W$	 B8A	$S_T = 1.4 \text{ mA/V}$ $R_i = 40k$ $\mu = 42$ $P_a = \text{max } 1W$
ECL80 tP	$S_p = 3.3 \text{ mA/V}$ $R_i = 150k$ $\mu g2g1 = 14$ $P_a = \text{max } 3.5W$	 B9A	$S_T = 1.9 \text{ mA/V}$ $R_i = 11k$ $\mu = 20$ $P_a = \text{max } 1W$
ECL82 tP	$S_p = 6.4 \text{ mA/V}$ $R_i = 20k$ $\mu g2g1 = 9.5$ $P_a = \text{max } 7W$	 B9A	$S_T = 2.5 \text{ mA/V}$ $R_i = 28k$ $\mu = 70$ $P_a = \text{max } 1W$
ECL84 tP	$S_p = 10 \text{ mA/V}$ $R_i = 150k$ $\mu g2g1 = 36$ $P_a = \text{max } 4W$	 B9A	$S_T = 4 \text{ mA/V}$ $R_i = 15k$ $\mu = 65$ $P_a = \text{max } 1W$
ECL85 tP	$P_a = \text{max } 9W$	 B9A	$S_T = 5.5 \text{ mA/V}$ $R_i = 9k$ $\mu = 50$ $P_a = \text{max } 0.5W$
ECL86 tP	$S_p = 10.5 \text{ mA/V}$ $R_i = 48k$ $P_a = \text{max } 9W$	 B9A	$S_T = 1.6 \text{ mA/V}$ $R_i = 62.5k$ $P_a = \text{max } 0.5W$

ECLL800

tPP

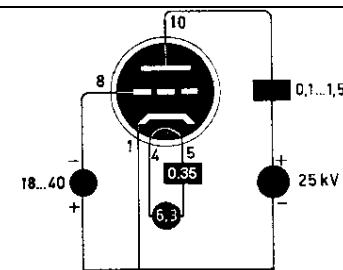
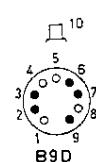
$S_T = 50 \mu A/V$
 $\mu = 1,2$
 $V_{g1} = -9 V$
 $P_a = \text{max. } 0,5 W$

$S_p = 6 \mu A/V$
 $V_{g1} = -9 V$
 $R_i = 100 k\Omega$
 $P_a = \text{max. } 2 \times 6 W$
 $\mu g_2 g_1 = 17$

**ED500**

T

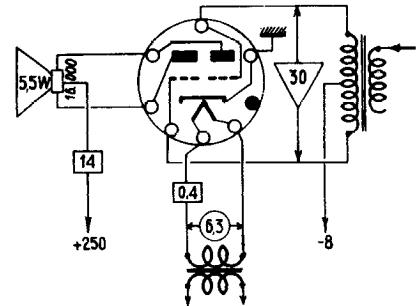
$P_a = \text{max. } 30 W$
 $V_g = -18 \dots -40 V$

**EDD11**

TT

EDD11
P (classe B)

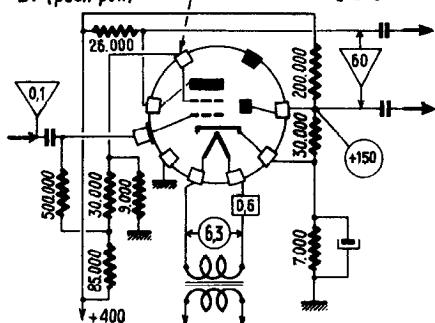
$S = 3$
 $P = 12.000$
 $V = -8$

**EE1**

SET

EE1
BF (push-pull)

$S = 14$
 $P = 50.000$
 $I = 8$

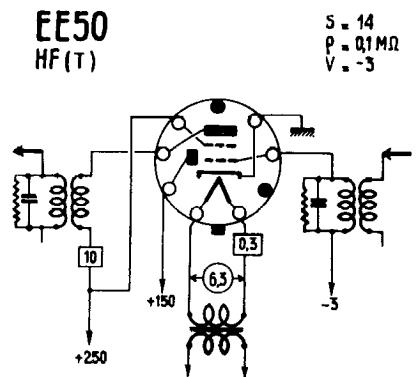


EE50

SET

EE50

HF(T)

**EEP1**

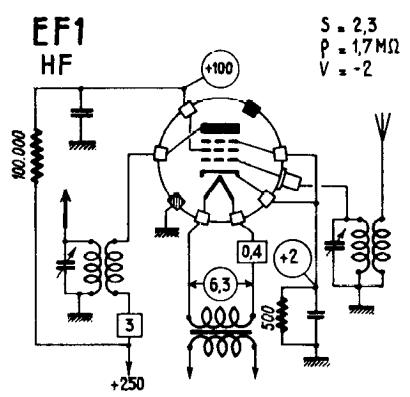
=EE1

EF1

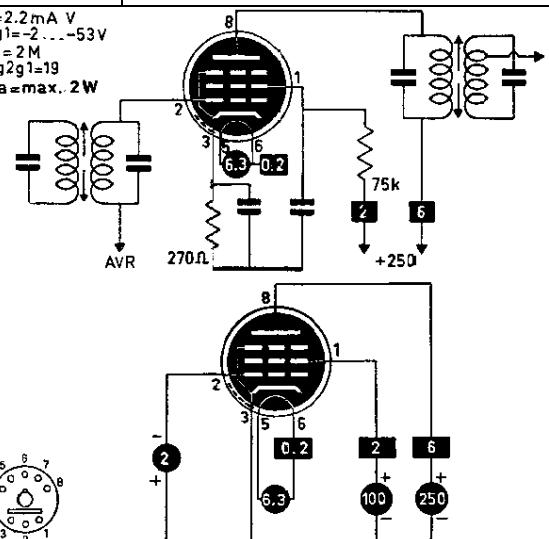
p

EF1

HF

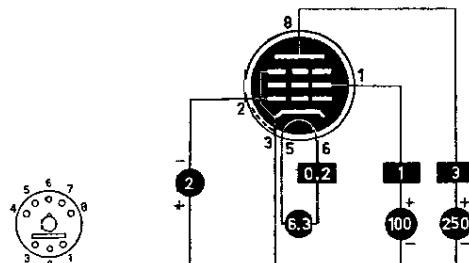
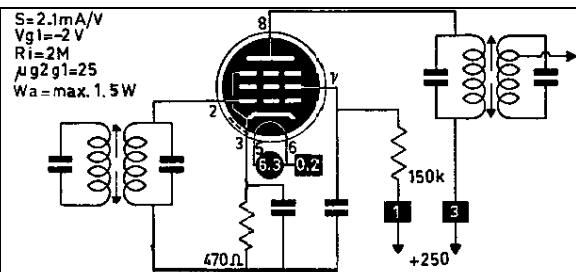
**EF11**

p

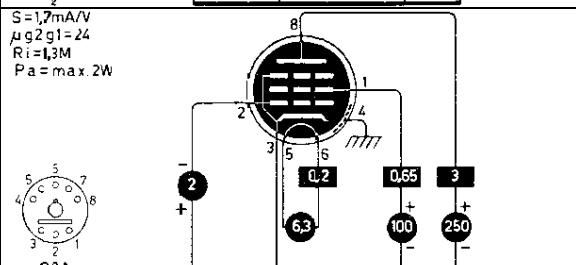
 $S = 2,2 \text{ mA}$ V $V_{g1} = -2 \dots -53 \text{ V}$ $R_i = 2 \text{ M}\Omega$ $\mu g_2 g_1 = 19$ $W_a = \text{max. } 2 \text{ W}$ 

EF12

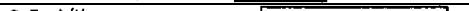
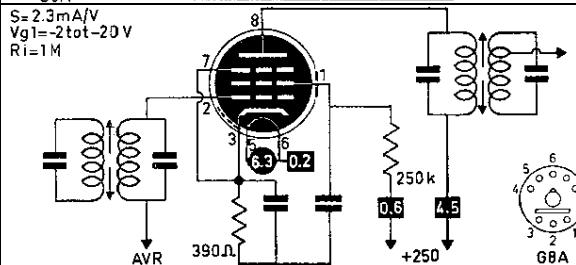
p

**EF12S**

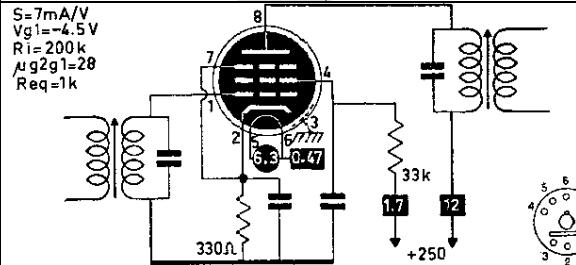
p

**EF13**

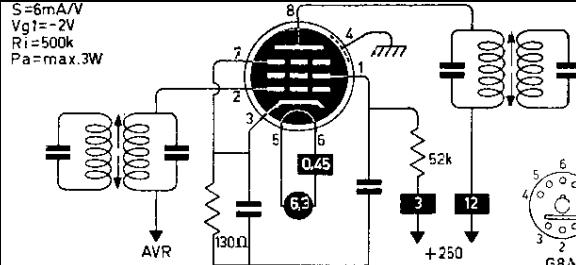
p

**EF14**

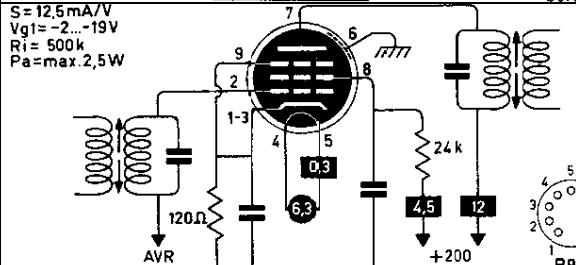
p

**EF15**

p

**EF183**

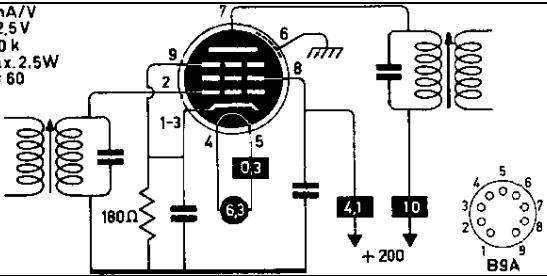
p



EF184

p

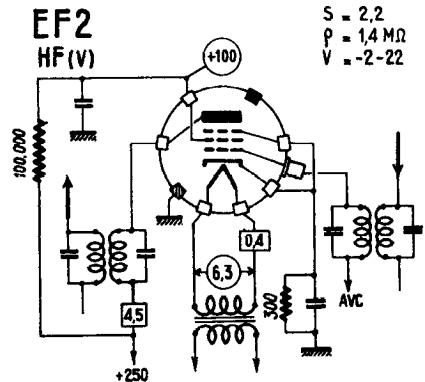
$S = 15 \text{ mA/V}$
 $V_{g1} = -2.5 \text{ V}$
 $R_i = 380 \text{ k}\Omega$
 $P_a = \text{max. } 2.5 \text{ W}$
 $\mu g_2 g_1 = 60$

**EF2**

p

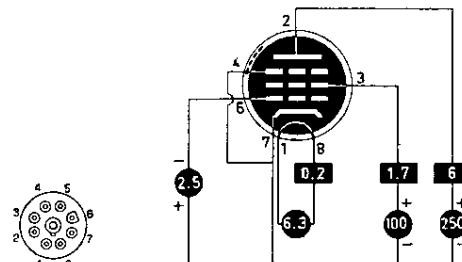
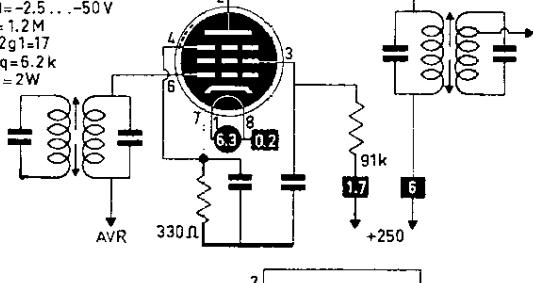
EF2**HF(V)**

$S = 2.2$
 $\rho = 1.4 \text{ M}\Omega$
 $V = -2-22$

**EF22**

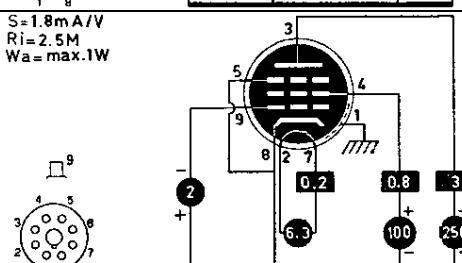
p

$S = 2.2 \text{ mA/V}$
 $V_{g1} = -2.5 \dots -50 \text{ V}$
 $R_i = 1.2 \text{ M}\Omega$
 $\mu g_2 g_1 = 17$
 $R_{eq} = 6.2 \text{ k}\Omega$
 $W_a = 2 \text{ W}$

**EF36**

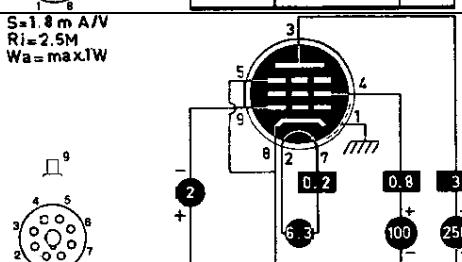
p

$S = 1.8 \text{ mA/V}$
 $R_i = 2.5 \text{ M}\Omega$
 $W_a = \text{max. } 1 \text{ W}$

**EF37**

p

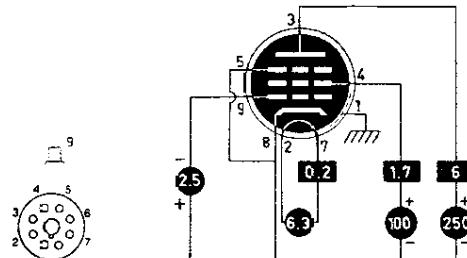
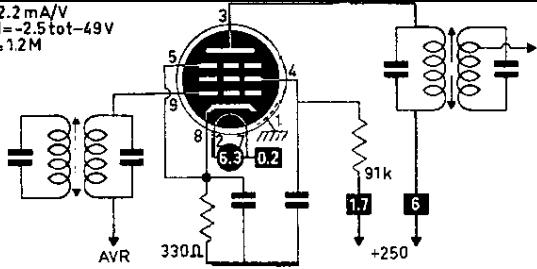
$S = 1.8 \text{ mA/V}$
 $R_i = 2.5 \text{ M}\Omega$
 $W_a = \text{max. } 1 \text{ W}$



EF39

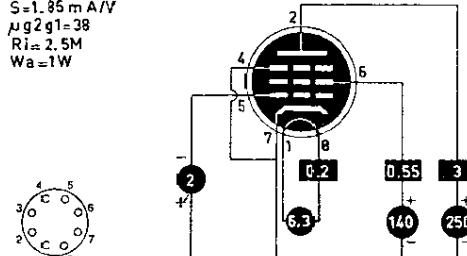
p

$S=2.2 \text{ mA/V}$
 $V_{g1}=-2.5 \text{ tot } -49 \text{ V}$
 $R_i=1.2 \text{ M}\Omega$

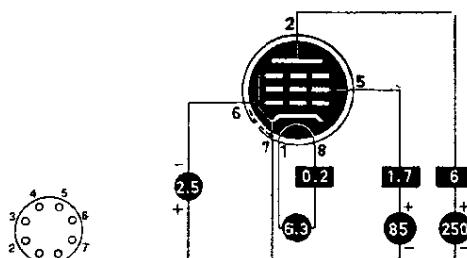
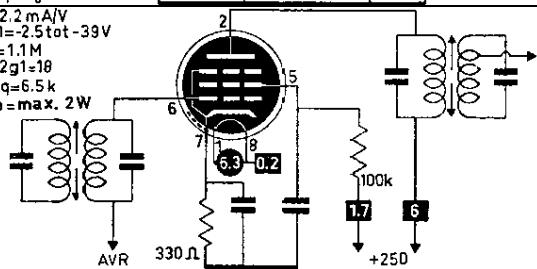
**EF40**

p

$S=1.85 \text{ mA/V}$
 $\mu g_2 g_1=38$
 $R_i=2.5 \text{ M}\Omega$
 $W_a=1 \text{ W}$

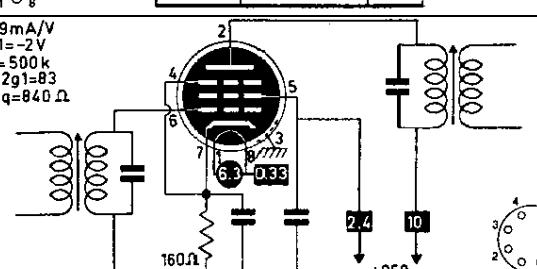


$S=2.2 \text{ mA/V}$
 $V_{g1}=-2.5 \text{ tot } -39 \text{ V}$
 $R_i=1.1 \text{ M}\Omega$
 $\mu g_2 g_1=18$
 $R_{eq}=6.5 \text{ k}\Omega$
 $W_a=\text{max. } 2 \text{ W}$

**EF42**

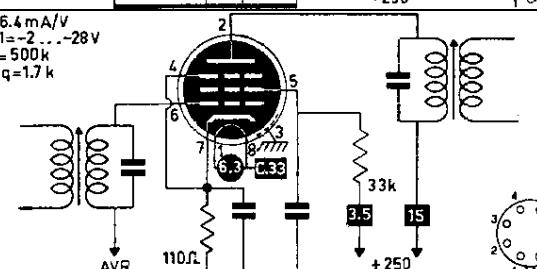
p

$S=9 \text{ mA/V}$
 $V_{g1}=-2 \text{ V}$
 $R_i=500 \text{ k}\Omega$
 $\mu g_2 g_1=83$
 $R_{eq}=840 \text{ }\Omega$

**EF43**

p

$S=6.4 \text{ mA/V}$
 $V_{g1}=-2 \dots -28 \text{ V}$
 $R_i=500 \text{ k}\Omega$
 $R_{eq}=1.7 \text{ k}\Omega$



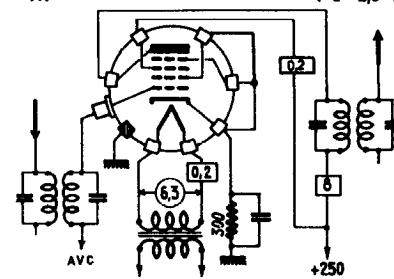
EF5 p	S=1.7 m A/V $V_{g1}=-3 \dots -46.5V$ $R_i=1.2M$	
EF50 p	S=6.5 mA/V $V_{g1}=-1.55 \dots -4.5V$ $R_i=1M$ $\mu g_2 g_1=75$ $R_{eq}=1.4k$	
EF51 p	S=9.5 m A/V $V_{g1}=-2 \dots -8V$ $R_i=500k$ $R_{eq}=1k$	
EF54 p	S=7.7 m A/V $V_{g1}=-1.7V$ $R_i=500k$	
EF55 p	S=12mA/V $\mu g_2 g_1=28$ $R_i=55k$ Wa=max. 10W	
EF6 p	S=1.8 m A/V $R_i=2.5M$ Wa=1W	

EF8

h

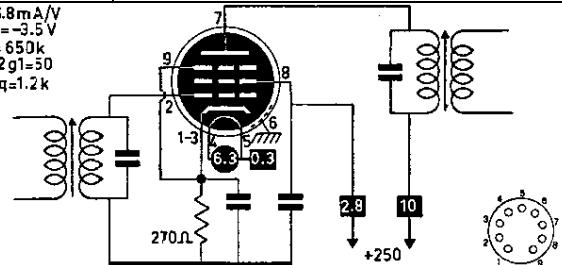
EF8
HF (V)

S = 1,8
 μ = 0,45 M Ω
 V = -2,5-20

**EF80**

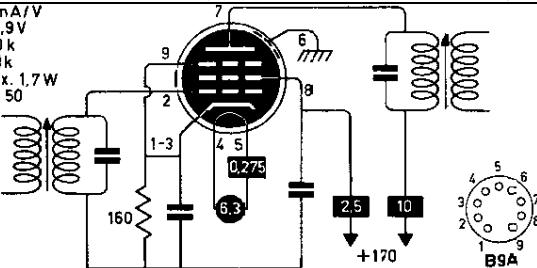
p

S = 6,8 mA/V
 Vg1 = -3,5 V
 Ri = 650 k Ω
 $\mu g_2 g_1 = 50$
 Req = 1,2 k Ω

**EF800**

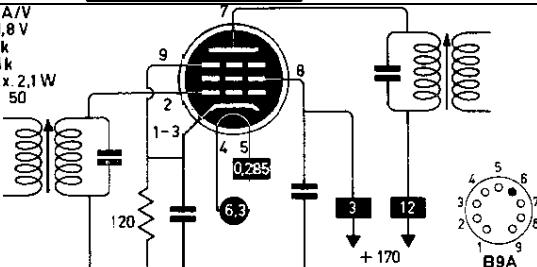
p

S = 7,5 mA/V
 Vg1 = -1,9 V
 Ri = 400 k Ω
 Req = 1 k Ω
 Pa = max. 1,7 W
 $\mu g_2 g_1 = 50$

**EF802**

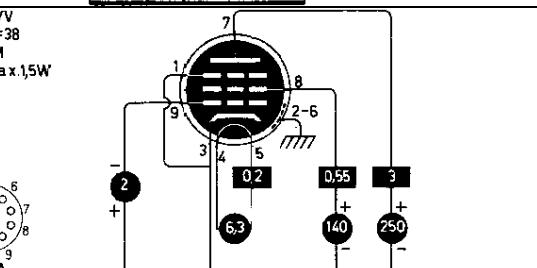
p

S = 8 mA/V
 Vg1 = -1,8 V
 Ri = 300 k Ω
 Req = 1 k Ω
 Pa = max. 2,1 W
 $\mu g_2 g_1 = 50$

**EF804**

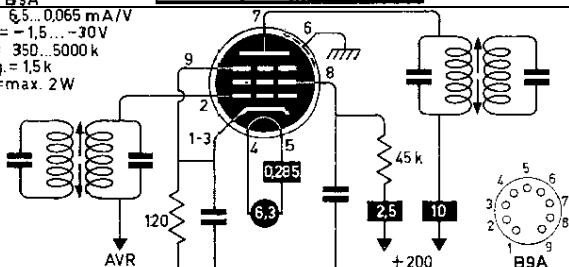
p

S = 2 mA/V
 $\mu g_2 g_1 = 38$
 Ri = 2,5 M Ω
 Pa = max. 1,5 W

**EF805S**

p

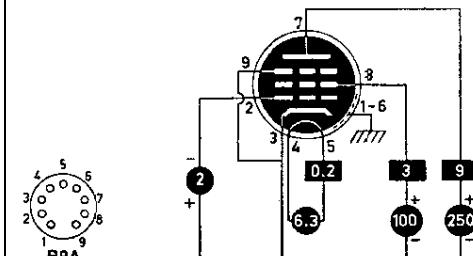
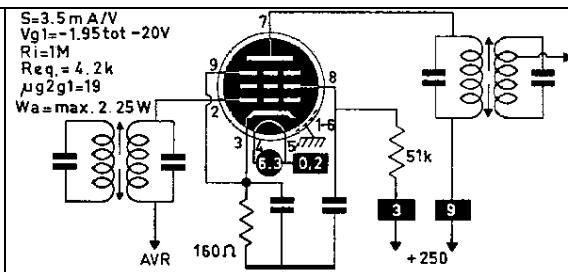
S = 6,5...0,065 mA/V
 Vg1 = -1,5...-30 V
 Ri = 350...5000 k Ω
 Req = 1,5 k Ω
 Pa = max. 2 W



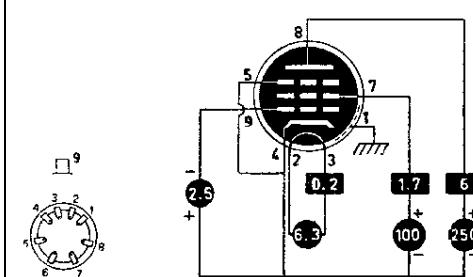
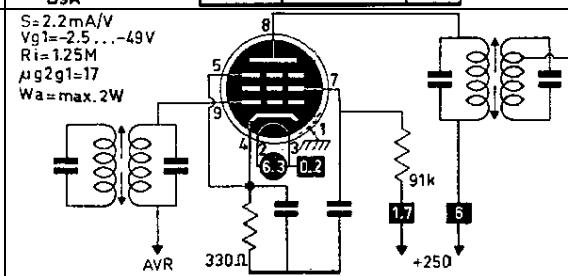
EF806S p	S= 2 mA/V $\mu g_2 g_1 = 38$ $R_i = 2,5 M$ $P_a = \text{max. } 1W$	
EF83 p	S= 1,6 mA/V $\mu g_2 g_1 = 10$ $R_i = 1,6 M$ $P_a = \text{max. } 1W$	
EF85 p	S= 6 mA/V $V_{gl} = -2 \dots -35V$ $R_i = 600k$ $R_{eq} = 1.4k$	
EF86 p	S= 1,85 mA/V $\mu g_2 g_1 = 38$ $R_i = 2,5 M$ $P_a = 1W$	
EF87 p	S= 1,9 mA/V $R_i = 1,5 M$ $P_a = \text{max. } 1,5W$	
EF88 p	S= 2,1 mA/V $R_i = 900 k$ $P_a = \text{max. } 2W$	

EF89

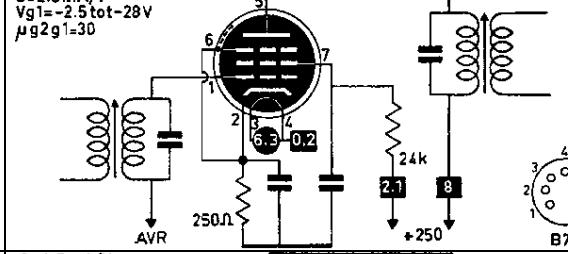
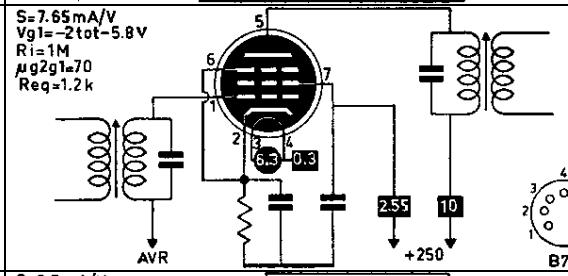
p

**EF9**

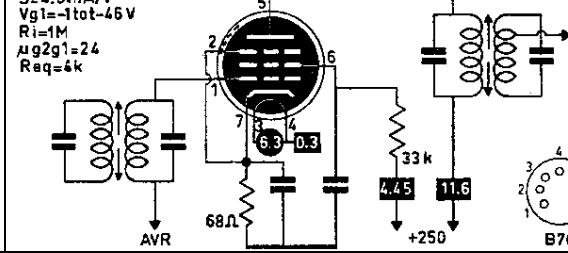
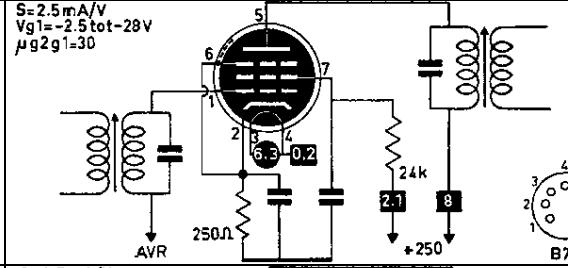
p

**EF91**

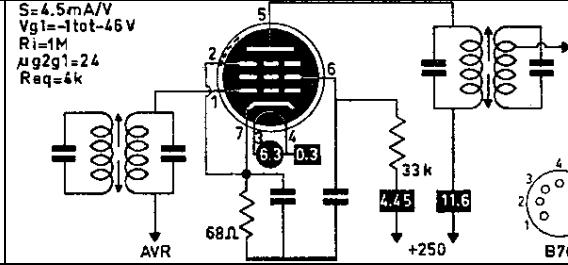
p

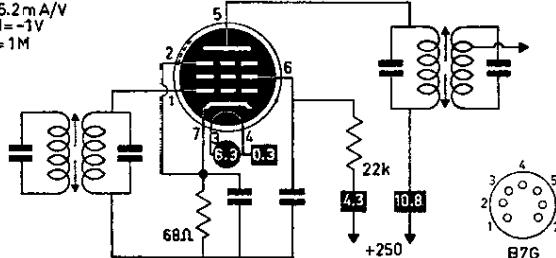
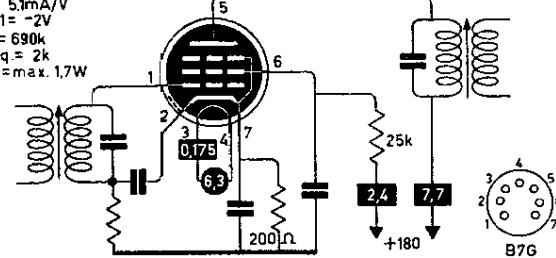
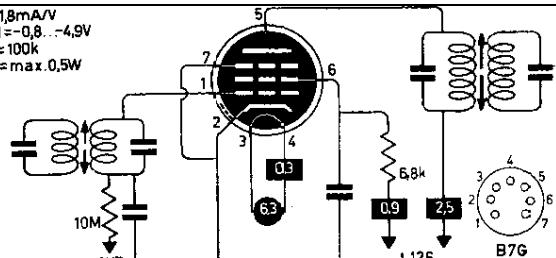
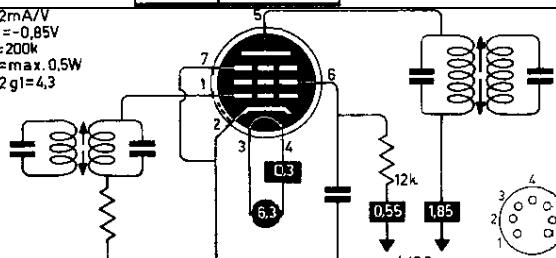
**EF92**

p

**EF93**

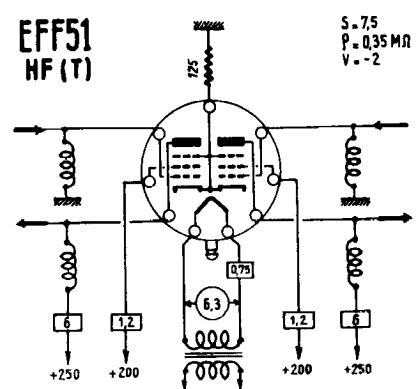
p



EF94 p	S=5.2mA/V Vg1=-1V Ri=1M	
EF95 p	S=5.1mA/V Vg1=-2V Ri=690k Req=2k Pa=max. 1.7W	
EF96	=6AG5	
EF97 p	S=1.8mA/V Vg1=-0.8..-4.9V Ri=100k Pa=max. 0.5W	
EF98 p	S=2mA/V Vg1=-0.85V Ri=200k Pa=max. 0.5W $\mu g_2 g_1 = 4.3$	
EFF50 pp	EFF50 HF (T)	S=8 P=0.35 MΩ V=-2

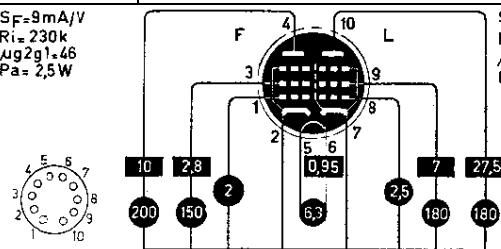
EFF51

pp

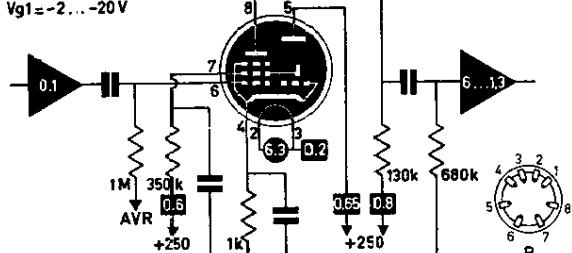
EFF51
HF (T)**EFL200**

pP

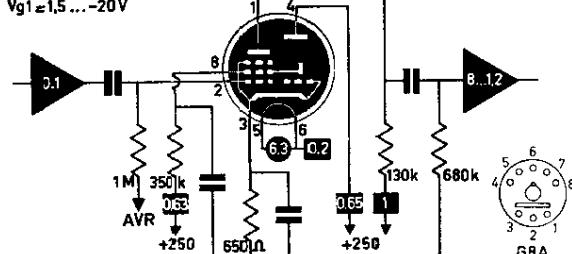
S_F = 9 mA/V
R_i = 230 k Ω
 $\mu g_2 g_1 = 46$
Pa = 2.5 W

**EFM1**

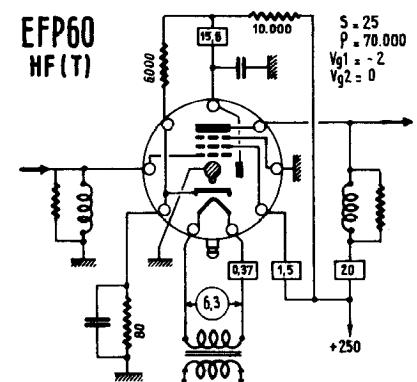
pi

V_{g1} = -2 ... -20 V**EFM11**

pi

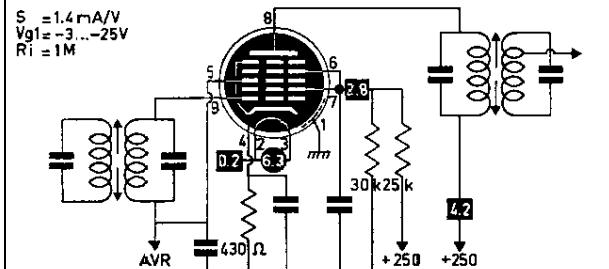
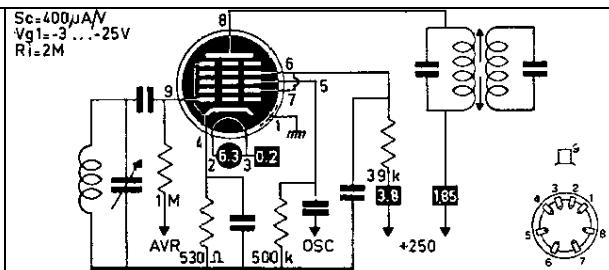
V_{g1} = 1.5 ... -20 V**EFP60**

SET

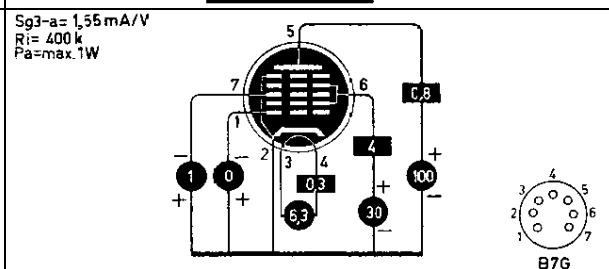
EFP60
HF (T)

EH2

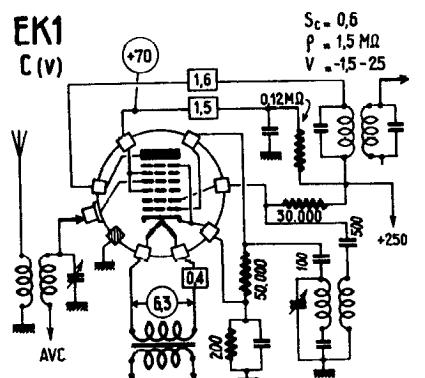
H

**EH90**

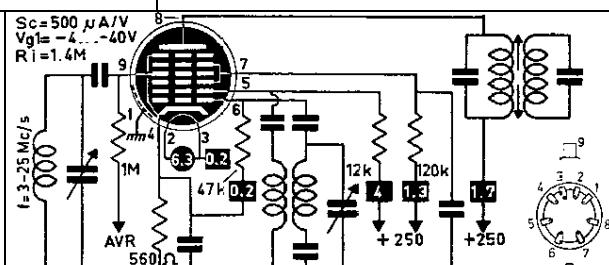
H

**EK1**

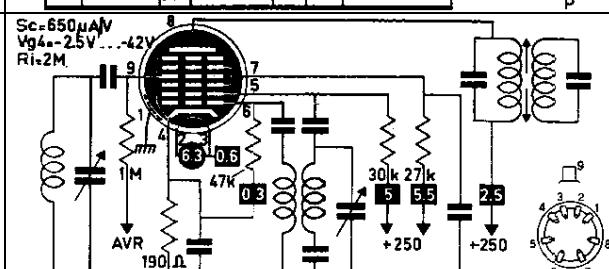
O

**EK2**

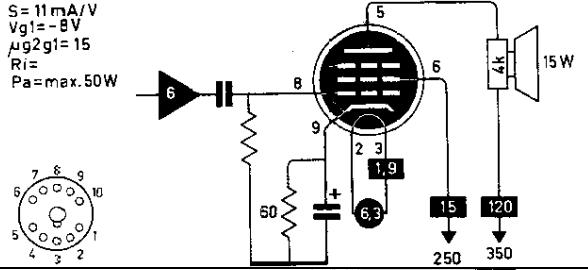
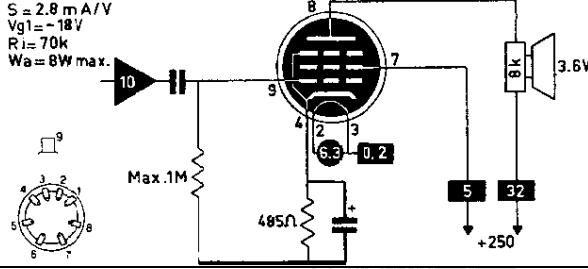
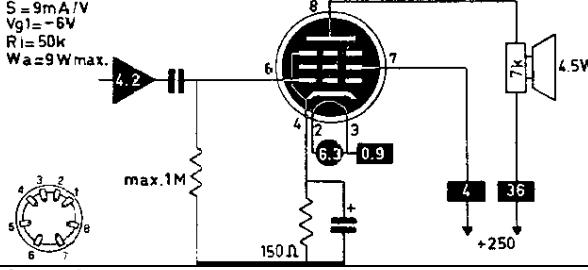
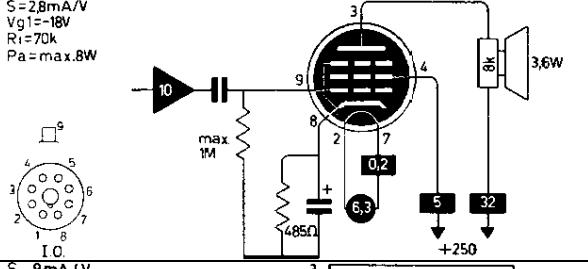
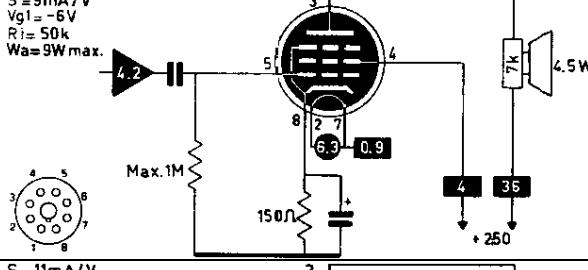
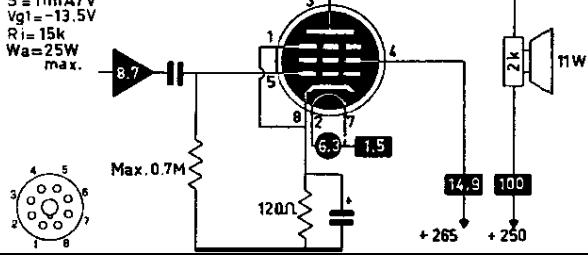
O

**EK3**

O

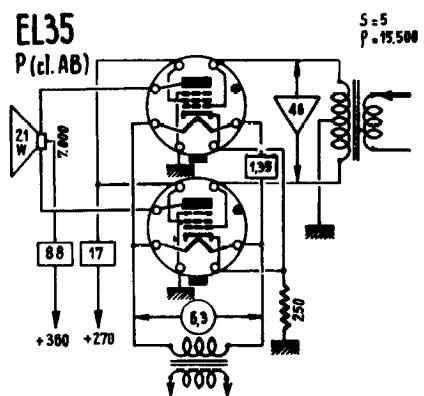


EK32 O	<p>$S_c = 550 \mu A/V$ $V_{g4} = -2 \dots -25V$ $R_i = 2M$</p>
EK90 H	<p>$S_c = 475 \mu A/V$ $V_{g3} = 0 \dots -30V$ $R_i = 1M$</p>
EL1 P	<p>EL1 P</p> <p>$S = 1,9$ $P = 80.000$ $V = -23$</p>
	<p>EL1 P (d.AB)</p>
EL11 P	<p>$S = 9mA/V$ $V_{g1} = -6V$ $R_i = 50k$ $W_a = 9W_{max}$</p>
EL12 P	<p>$S = 15mA/V$ $V_{g1} = -7V$ $R_i = 25k$ $W_a = 18W_{max}$</p>

EL156 P	S=11mA/V $V_{g1}=-8V$ $\mu g_2 g_1 = 15$ $R_i =$ $P_a = \text{max. } 50W$	
EL2 P	S=2.8 mA/V $V_{g1}=-18V$ $R_i = 70k$ $P_a = 8W \text{ max.}$	
EL3 P	S=9mA/V $V_{g1}=-6V$ $R_i = 50k$ $P_a = 9W \text{ max.}$	
EL32 P	S=2.8mA/V $V_{g1}=-18V$ $R_i = 70k$ $P_a = \text{max. } 8W$	
EL33 P	S=9mA/V $V_{g1}=-6V$ $R_i = 50k$ $P_a = 9W \text{ max.}$	
EL34 P	S=11mA/V $V_{g1}=-13.5V$ $R_i = 15k$ $P_a = 25W \text{ max.}$	

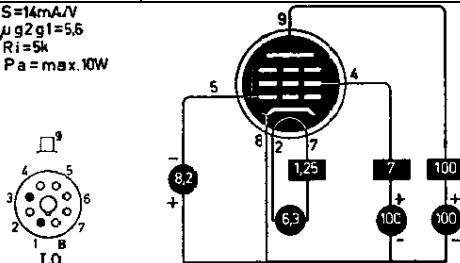
EL35

P

**EL36**

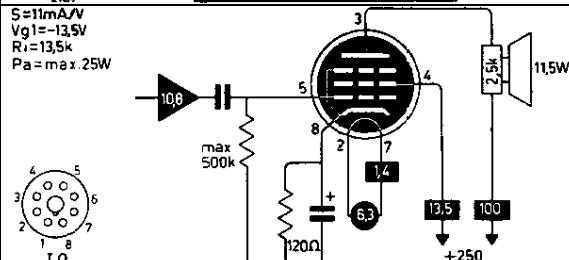
P

$S=14\text{mA/V}$
 $\mu g_2 g_1=5.6$
 $R_i=5\text{k}$
 $P_a=\text{max. }10\text{W}$

**EL37**

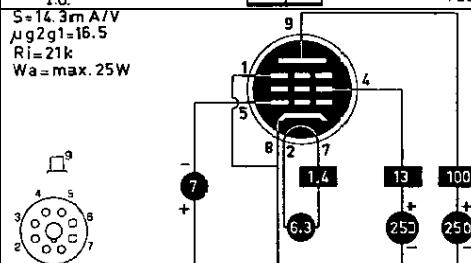
P

$S=11\text{mA/V}$
 $V_{g1}=-13.5\text{V}$
 $R_i=13.5\text{k}$
 $P_a=\text{max. }25\text{W}$

**EL38**

P

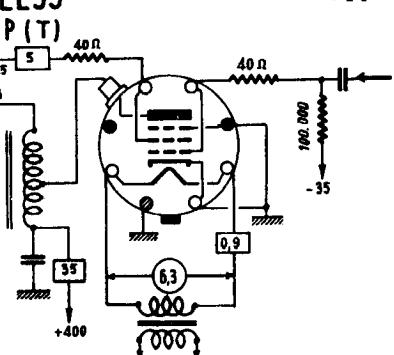
$S=14.3\text{mA/V}$
 $\mu g_2 g_1=16.5$
 $R_i=21\text{k}$
 $W_a=\text{max. }25\text{W}$

**EL39**

P

EL39

P (T)

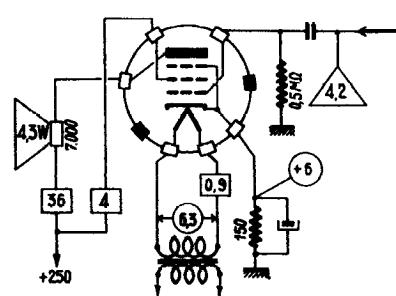
 $S=6$ 

EL3N

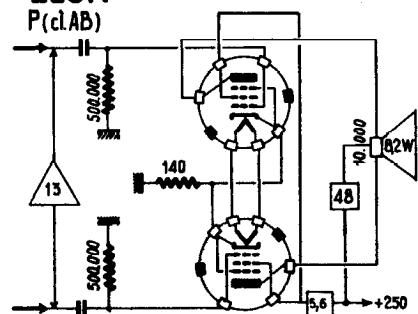
P

EL3N

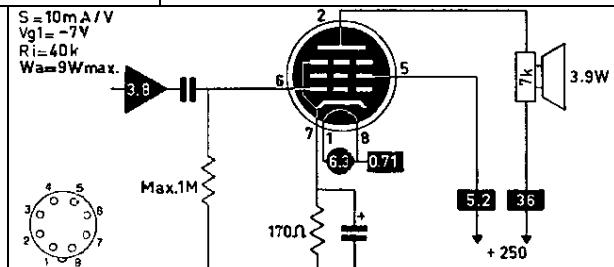
P

 $S = 9,5$
 $P = 50.000$
 $V = -6$
**EL3N**

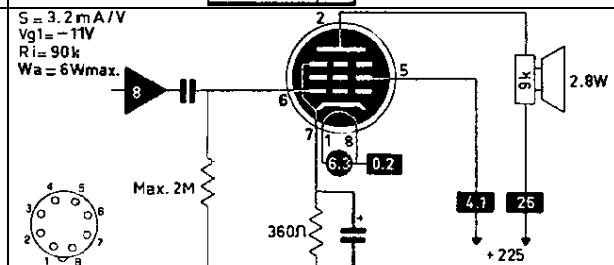
P (clAB)

**EL41**

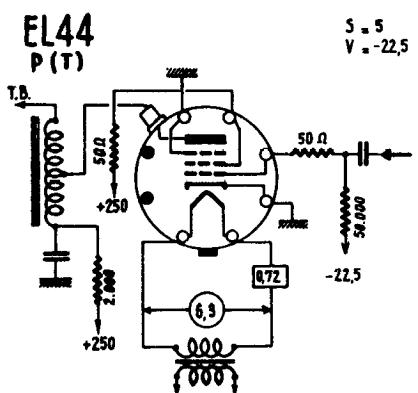
P

 $S = 10 \text{ mA/V}$
 $V_{g1} = -7 \text{ V}$
 $R_i = 40 \text{ k}\Omega$
 $W_a = 9 \text{ W max.}$
**EL42**

P

 $S = 3.2 \text{ mA/V}$
 $V_{g1} = -11 \text{ V}$
 $R_i = 90 \text{ k}\Omega$
 $W_a = 6 \text{ W max.}$
**EL44**

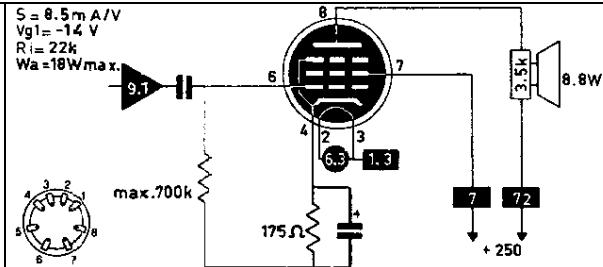
P

EL44
P (T)
 $S = 5$
 $V = -22,5$


EL5

P

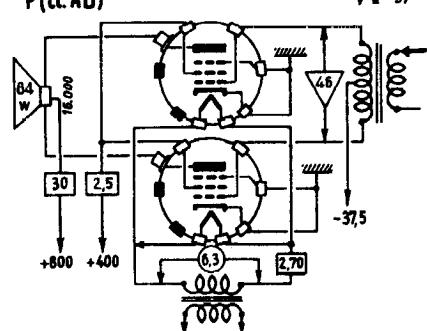
$S = 8.5 \text{ mA/V}$
 $V_{g1} = -14 \text{ V}$
 $R_i = 22 \text{k}$
 $W_a = 18 \text{ W max.}$

**EL50**

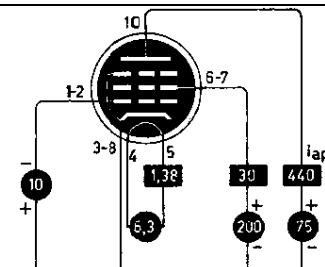
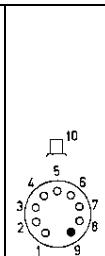
P

EL50
P (cl. AB)

$S = 4$
 $P = 50.000$
 $V_a = -37$

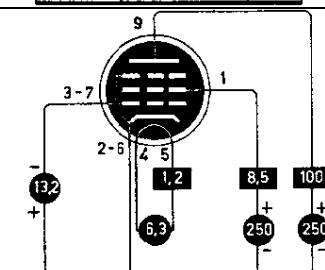
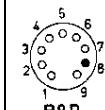
**EL500**

P

**EL503**

P

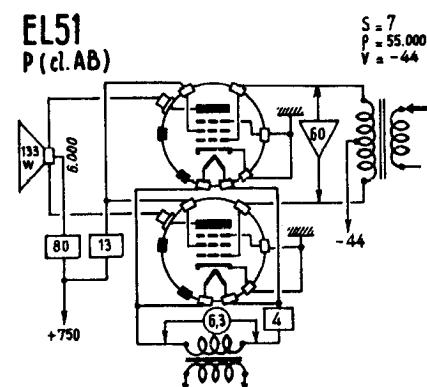
$S = 23 \text{ mA/V}$
 $\mu g_2 g_1 = 13$
 $R_i = 7.3 \text{k}$
 $P_a = \text{max. } 27 \text{ W}$

**EL51**

P

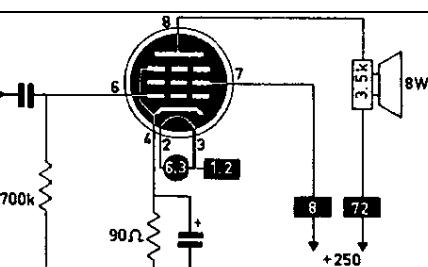
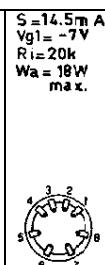
EL51
P (cl. AB)

$S = 7$
 $P = 55.000$
 $V_a = -44$

**EL6**

P

$S = 14.5 \text{ mA/V}$
 $V_{g1} = -7 \text{ V}$
 $R_i = 20 \text{k}$
 $W_a = 18 \text{ W max.}$

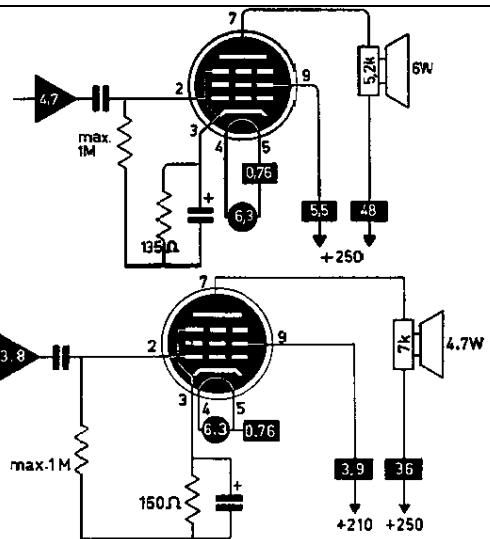


EL60 P	S=11mA/V $V_{g1}=-13.5V$ $R_i=15k$ $P_a=\text{max. } 25W$	
EL8 P	S=5.5mA/V $V_{g1}=-7.5V$ $R_i=68k$ $P_a=\text{max. } 5W$	
EL803 P	S=10.5mA/V $\mu g_2 g_1=22$ $R_i=60k$ $P_a=\text{max. } 9W$	
EL804 P	S=10mA/V $\mu g_2 g_1=9$ $R_i=14k$ $P_a=\text{max. } 10W$	
EL81 P	S=4.6mA/V $\mu g_2 g_1=5.1$ $R_i=15k$ $P_a=\text{max. } 8W$	
EL82 P	S=9mA/V $V_{g1}=-10.4V$ $\mu g_2 g_1=10$ $R_i=20k$ $P_a=\text{max. } 9W$	
EL83 P	S=10mA/V $\mu g_2 g_1=24$ $R_i=130k$ $P_a=\text{max. } 9W$	

EL84

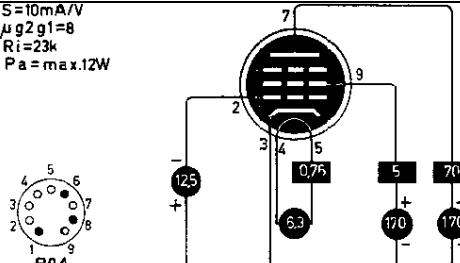
P

$S=1,3\text{mA/V}$
 $V_{g1}=-7,3\text{V}$
 $R_i=38\text{k}$
 $P_a=\text{max. }12\text{W}$

**EL86**

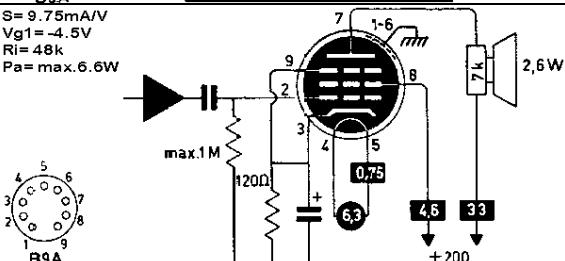
P

$S=10\text{mA/V}$
 $\mu g_2 g_1=8$
 $R_i=23\text{k}$
 $P_a=\text{max. }12\text{W}$

**EL88**

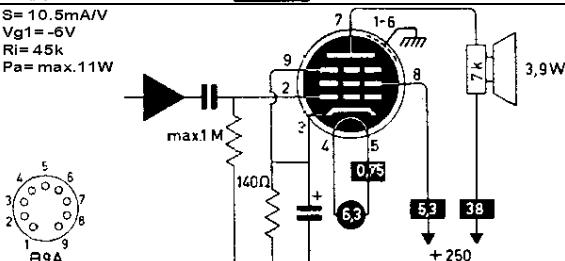
P

$S=9,75\text{mA/V}$
 $V_{g1}=-4,5\text{V}$
 $R_i=48\text{k}$
 $P_a=\text{max. }6,6\text{W}$

**EL89**

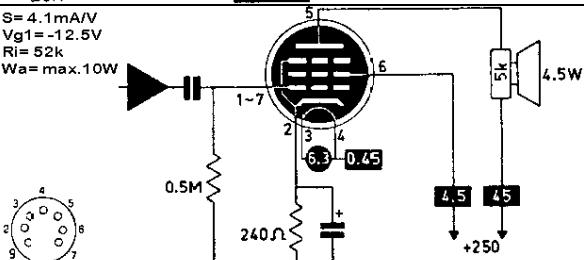
P

$S=10,5\text{mA/V}$
 $V_{g1}=-6\text{V}$
 $R_i=45\text{k}$
 $P_a=\text{max. }11\text{W}$

**EL90**

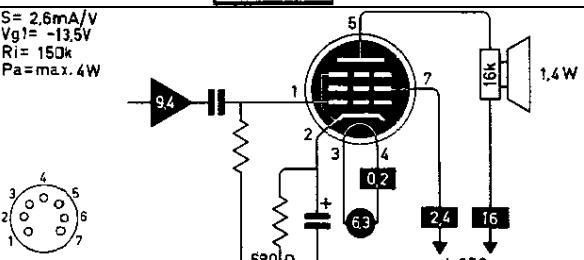
P

$S=4,1\text{mA/V}$
 $V_{g1}=-12,5\text{V}$
 $R_i=52\text{k}$
 $P_a=\text{max. }10\text{W}$

**EL91**

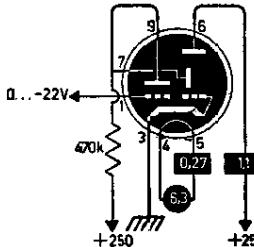
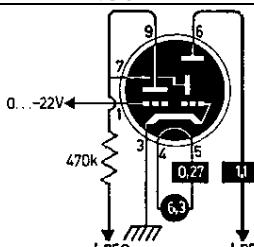
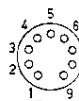
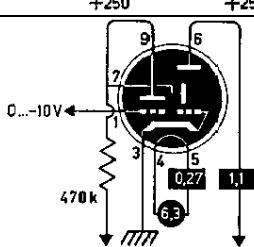
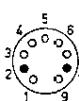
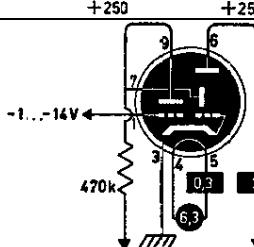
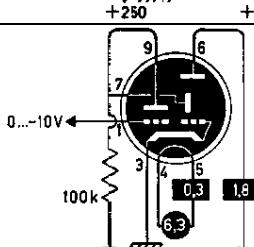
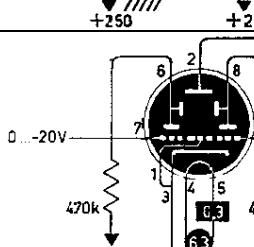
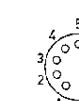
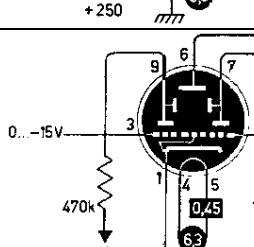
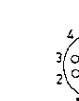
P

$S=2,6\text{mA/V}$
 $V_{g1}=-13,5\text{V}$
 $R_i=150\text{k}$
 $P_a=\text{max. }4\text{W}$

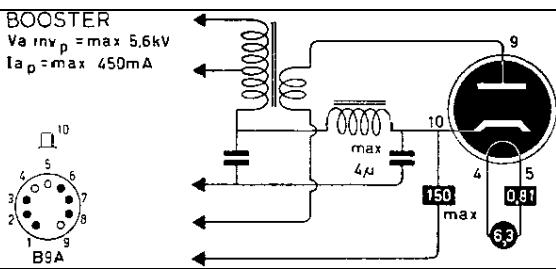
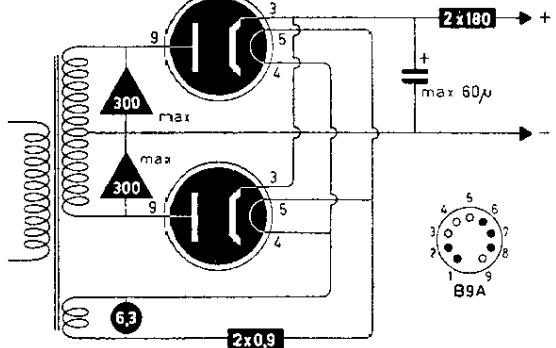
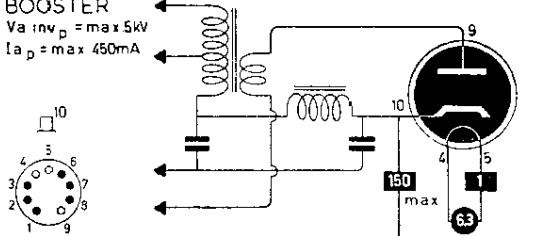
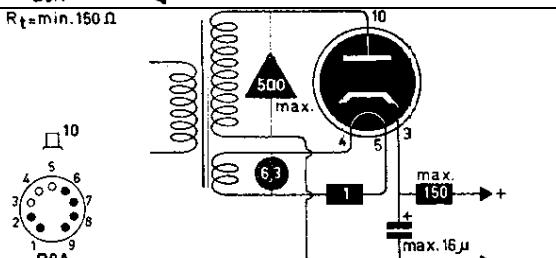
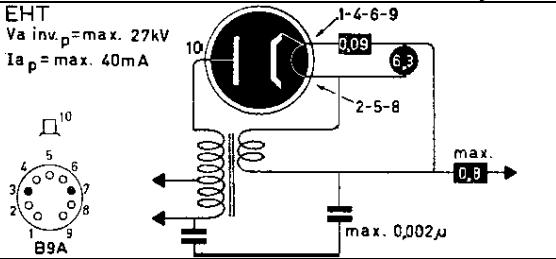
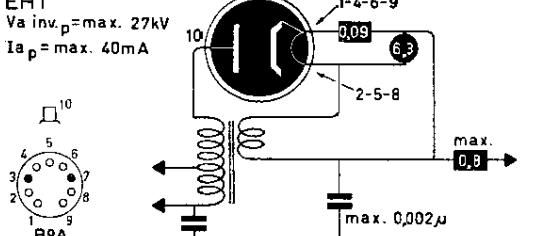
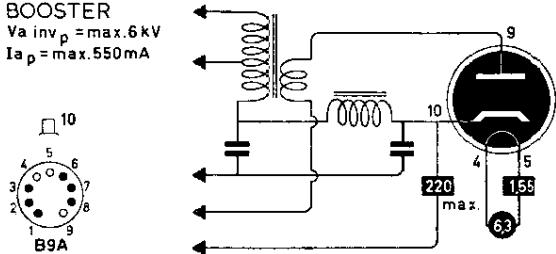


EL95 P	<p>$S = 5 \text{ mA/V}$ $V_{g1} = -9 \text{ V}$ $\mu g_2 g_1 = 17$ $R_i = 80 \text{ k}\Omega$ $P_a = \text{max. } 6 \text{ W}$</p>
ELL1 PP	<p>ELL1 P (cl.A)</p> <p>$S = 1.7$ $P = 0.1 \text{ M}\Omega$ $V = -21$</p>
ELL80 PP	<p>ELL80 PP</p> <p>$S = 6 \text{ mA/V}$ $V_{g1} = -9 \text{ V}$ $R_i = 80 \text{ k}\Omega$ $P_a = \text{max. } 2 \times 6 \text{ W}$</p>
EM1 ti	<p>EM1 ti</p>
EM11 tii	<p>EM11 tii</p>
EM3 ti	<p>EM3 ti</p> <p>$V = 0 - 5$</p>

EM34 tii	
EM35 tii	
EM4 tii	
EM5 tii	
EM71 ti	
EM80 ti	
EM81 ti	

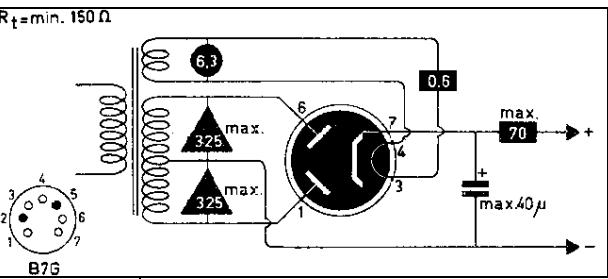
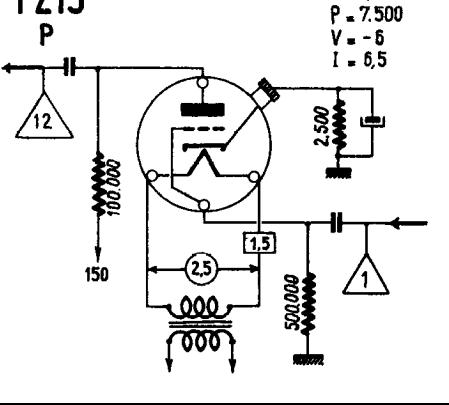
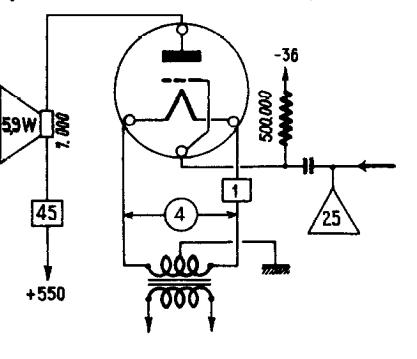
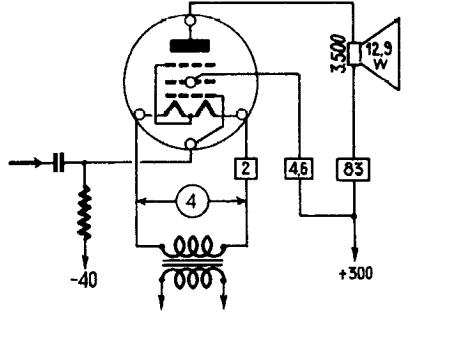
EM84 ti	 
EM840 ti	 
EM84A ti	 
EM85 ti	 
EM87 ti	 
EMM801 titi	 
EMM803 titi	 

EQ40 e	
EQ80 e	
EW60 r°	
EY1 R	
EY51 R	
EY80 R	

EY81 R	BOOSTER $V_{a\ inv,p} = \text{max } 5.6\text{kV}$ $I_{a,p} = \text{max } 450\text{mA}$	
EY82 R		
EY83 R	BOOSTER $V_{a\ inv,p} = \text{max } 5\text{kV}$ $I_{a,p} = \text{max } 450\text{mA}$	
EY84 R		
EY86 R	EHT $V_{a\ inv,p} = \text{max. } 27\text{kV}$ $I_{a,p} = \text{max. } 40\text{mA}$	
EY87 R	EHT $V_{a\ inv,p} = \text{max. } 27\text{kV}$ $I_{a,p} = \text{max. } 40\text{mA}$	
EY88 R	BOOSTER $V_{a\ inv,p} = \text{max. } 6\text{kV}$ $I_{a,p} = \text{max. } 550\text{mA}$	

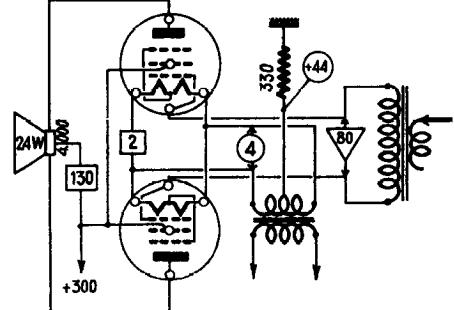
EY91	$R_t = \text{min. } 100\Omega$	
EZ1	$R_t = \text{min. } 100\Omega$	
EZ11	$R_t = \text{min. } 600\Omega$	
EZ12	$R_t = \text{min. } 300\Omega$	
EZ150	$R_t = \text{min. } 2 \times 100$	
EZ2	$R_t = \text{min. } 500\Omega$	
EZ22	$R_t = \text{min. } 500\Omega$	

EZ3 rr	$R_t = \text{min. } 300\Omega$	<p>The circuit diagram shows a vacuum tube connected to a transformer. The tube has pins 6, 3, 5, 4, 2, 1, 8, and 7. The transformer has two secondaries with resistors of 500 ohms each. The output stage uses a pentode connection with a plate load of 100 ohms. A bypass capacitor of 32 microfarads is connected between the plate and ground. The filament voltage is 0.65. The filament is connected to pins 6 and 3.</p>
EZ35 rr	$R_t = \text{min. } 350\Omega$	<p>The circuit diagram shows a vacuum tube connected to a transformer. The tube has pins 6, 3, 5, 4, 2, 1, 8, and 7. The transformer has two secondaries with resistors of 325 ohms each. The output stage uses a pentode connection with a plate load of 70 ohms. A bypass capacitor of 16 microfarads is connected between the plate and ground. The filament voltage is 0.6. The filament is connected to pins 6 and 3.</p>
EZ4 rr	$R_t = \text{min. } 300\Omega$	<p>The circuit diagram shows a vacuum tube connected to a transformer. The tube has pins 6, 3, 5, 4, 2, 1, 8, and 7. The transformer has two secondaries with resistors of 400 ohms each. The output stage uses a pentode connection with a plate load of 175 ohms. A bypass capacitor of 16 microfarads is connected between the plate and ground. The filament voltage is 0.9. The filament is connected to pins 6 and 3.</p>
EZ40 rr	$R_t = \text{min. } 2 \times 300\Omega$	<p>The circuit diagram shows a vacuum tube connected to a transformer. The tube has pins 6, 3, 5, 4, 2, 1, 8, and 7. The transformer has two secondaries with resistors of 350 ohms each. The output stage uses a pentode connection with a plate load of 90 ohms. A bypass capacitor of 50 microfarads is connected between the plate and ground. The filament voltage is 0.6. The filament is connected to pins 6 and 3. The tube is labeled B8A.</p>
EZ41 rr	$R_t = \text{min. } 300\Omega$	<p>The circuit diagram shows a vacuum tube connected to a transformer. The tube has pins 6, 3, 5, 4, 2, 1, 8, and 7. The transformer has two secondaries with resistors of 250 ohms each. The output stage uses a pentode connection with a plate load of 60 ohms. A bypass capacitor of 50 microfarads is connected between the plate and ground. The filament voltage is 0.4. The filament is connected to pins 6 and 3.</p>
EZ80 rr	$R_t = \text{min. } 2 \times 300\Omega$	<p>The circuit diagram shows a vacuum tube connected to a transformer. The tube has pins 6, 3, 5, 4, 2, 1, 8, and 7. The transformer has two secondaries with resistors of 350 ohms each. The output stage uses a pentode connection with a plate load of 90 ohms. A bypass capacitor of 50 microfarads is connected between the plate and ground. The filament voltage is 0.6. The filament is connected to pins 6 and 3.</p>
EZ81 rr	$R_t = \text{min. } 2 \times 240\Omega$	<p>The circuit diagram shows a vacuum tube connected to a transformer. The tube has pins 6, 3, 5, 4, 2, 1, 8, and 7. The transformer has two secondaries with resistors of 350 ohms each. The output stage uses a pentode connection with a plate load of 150 ohms. A bypass capacitor of 50 microfarads is connected between the plate and ground. The filament voltage is 1. The filament is connected to pins 6 and 3. The tube is labeled B9A.</p>

EZ90 rr	$R_t = \text{min. } 150\Omega$ 
F215 t	F215 P 
F410 T	F410 P 
F443N P	F443N P 

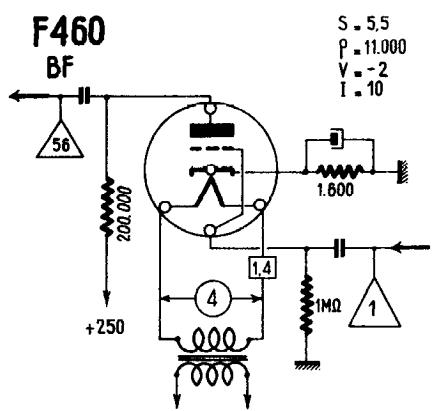
F443 N

P (cl. AB)



F460

t



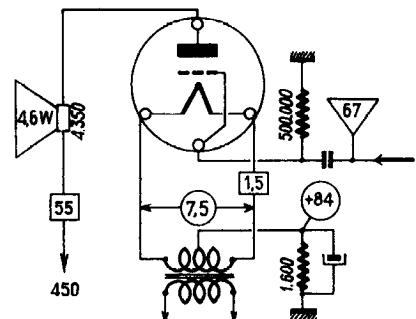
F704

T

F704

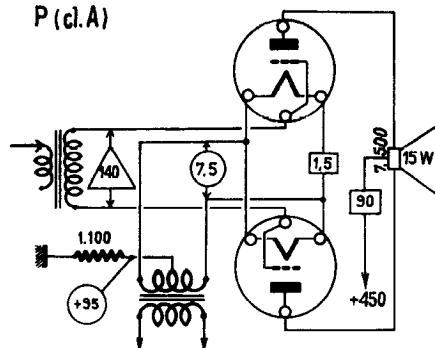
P

S = 2.1
P = 1.800
V = -84



F704

P (cl.A)

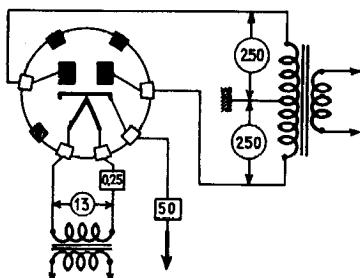


FZ1

rr

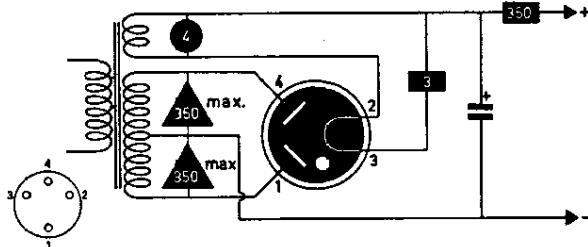
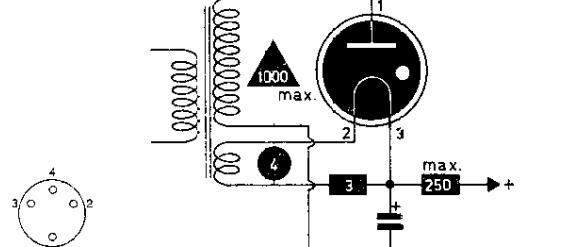
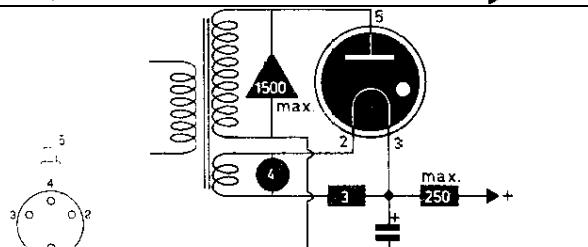
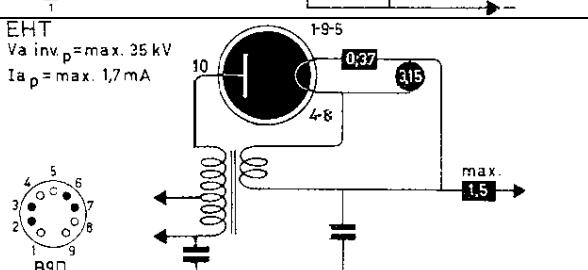
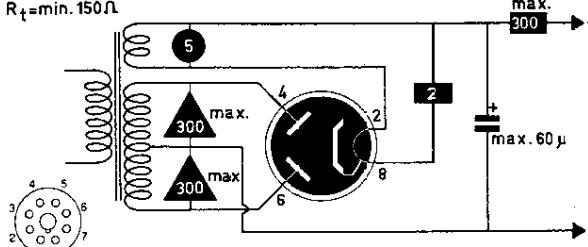
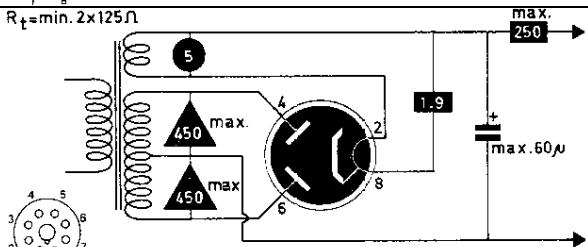
FZ1

R



G84

=ZZ2

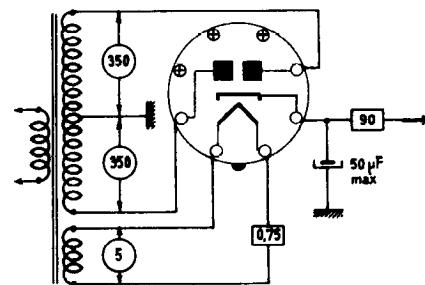
GR4 rr°	
GU1 R°	
GU5 R°	
GY501 R	EHT $V_{a\ inv,p} = \text{max. } 35 \text{ kV}$ $I_{a,p} = \text{max. } 1,7 \text{ mA}$ 
GZ32 rr	$R_t = \text{min. } 150 \Omega$ 
GZ34 rr	$R_t = \text{min. } 2 \times 125 \Omega$ 

GZ40

rr

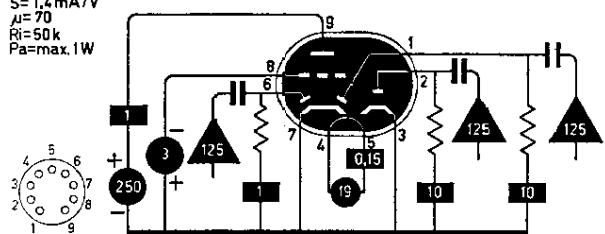
GZ40

R

**HABC80**

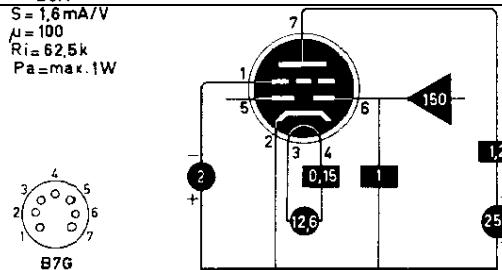
dddt

$S = 1,4 \text{ mA/V}$
 $\mu = 70$
 $R_i = 50 \text{ k}\Omega$
 $P_a = \text{max. } 1 \text{ W}$

**HBC91**

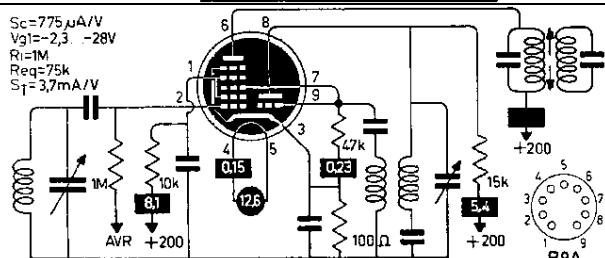
ddt

$S = 1,6 \text{ mA/V}$
 $\mu = 100$
 $R_i = 62,5 \text{ k}\Omega$
 $P_a = \text{max. } 1 \text{ W}$

**HCH81**

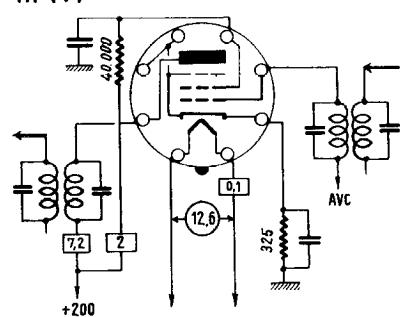
tH

$S_c = 775 \mu\text{A/V}$
 $V_{g1} = -2,3 \text{ to } -28 \text{ V}$
 $R_i = 1 \text{ M}\Omega$
 $R_{eq} = 75 \text{ k}\Omega$
 $S_T = 3,3 \text{ mA/V}$

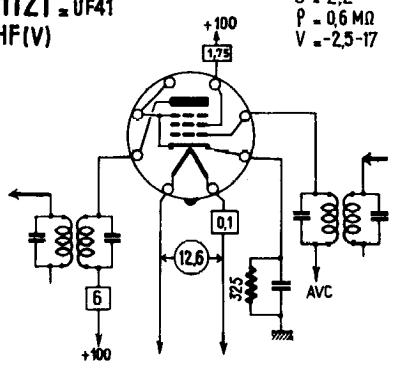
**HF121**

p

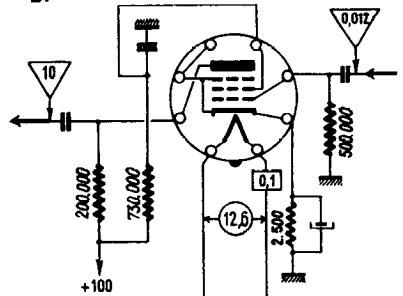
$S = 2,3$
 $P = 1 \text{ mW}$
 $V = -3 \text{ to } -34 \text{ V}$



H121 = UF41
HF(V)

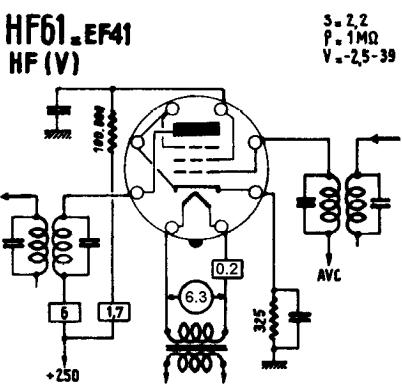


HF121 = UF41
BF

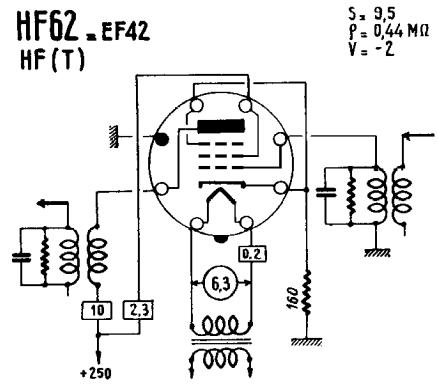


HF61

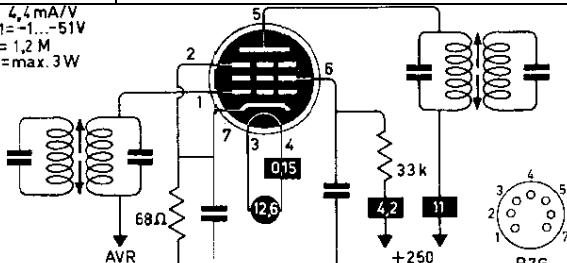
p

HF61 - EF41
HF(V)
 $S = 2,2$
 $P = 1 \text{ M}\Omega$
 $V = -2,5-39$
HF62

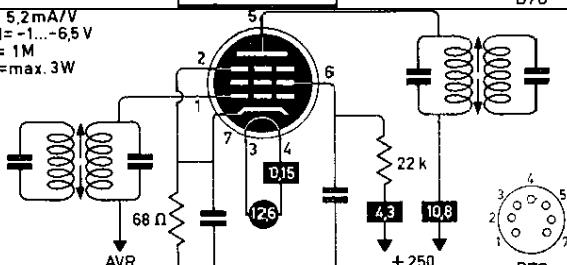
p

HF62 - EF42
HF(T)
 $S = 9,5$
 $P = 0,44 \text{ M}\Omega$
 $V = -2$
HF93

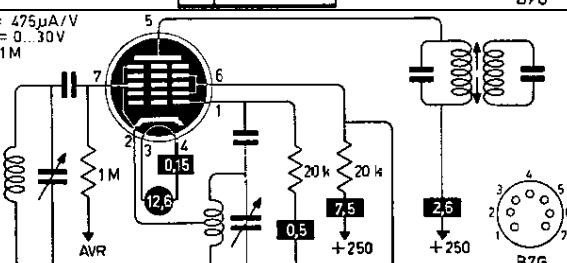
P

 $S = 4,4 \text{ mA/V}$
 $V_{g1} = -1 \dots -51 \text{ V}$
 $R_i = 1,2 \text{ M}$
 $P_a = \text{max. } 3 \text{ W}$
**HF94**

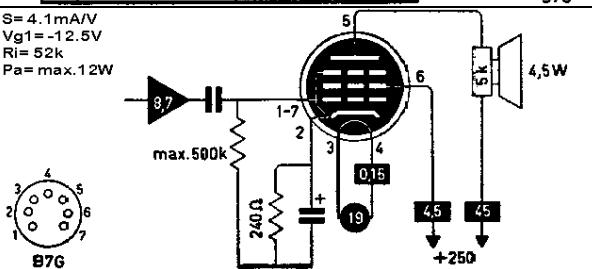
p

 $S = 5,2 \text{ mA/V}$
 $V_{g1} = -1 \dots -6,5 \text{ V}$
 $R_i = 1 \text{ M}$
 $P_a = \text{max. } 3 \text{ W}$
**HK90**

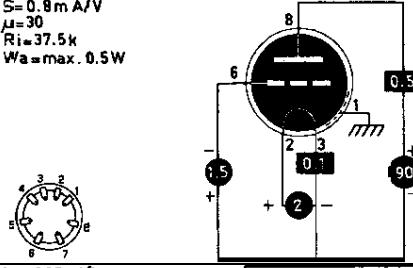
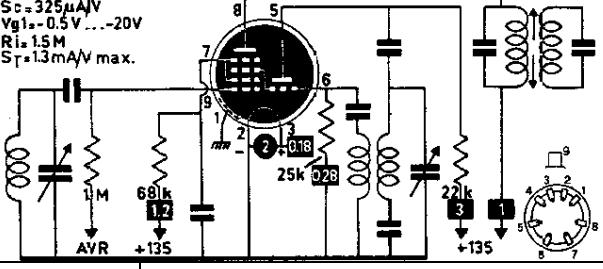
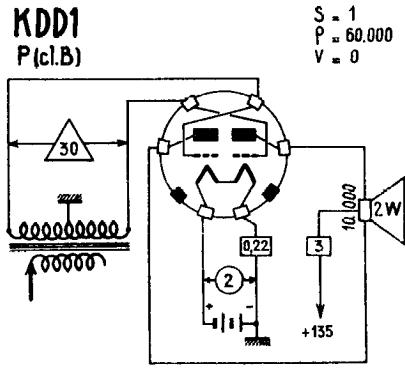
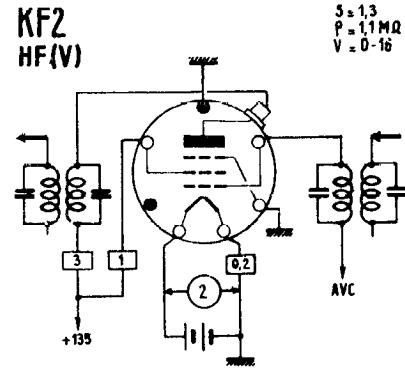
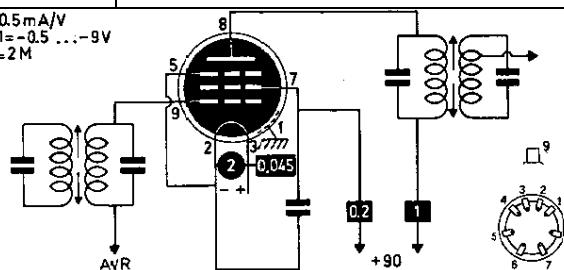
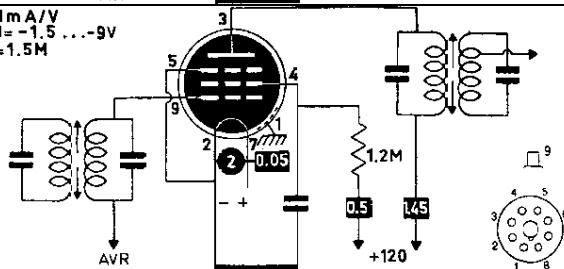
H

 $S_c = 475 \mu\text{A/V}$
 $V_{g3} = 0 \dots 30 \text{ V}$
 $R_i = 1 \text{ M}$
**HL90**

P

 $S = 4,1 \text{ mA/V}$
 $V_{g1} = -12,5 \text{ V}$
 $R_i = 52 \text{ k}$
 $P_a = \text{max. } 1,2 \text{ W}$


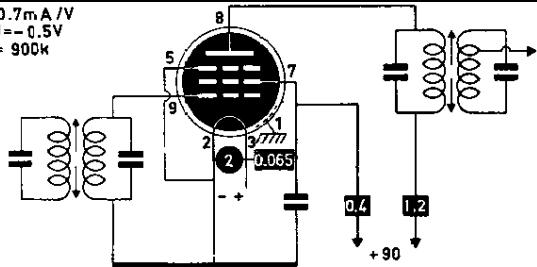
HL94 P	<p>$S=3.2 \text{ mA/V}$ $V_{g1}=-6.7 \text{ V}$ $\mu g_2 g_1=7.8$ $R_i=22 \text{ k}\Omega$ $P_a=\text{max. } 7.5 \text{ W}$</p>
HM85 ti	
KB2 dd	<p>$V_d \text{ max.}=125 \text{ V}$ $I_d \text{ max.}=0.5 \text{ mA}$</p>
KBC1 ddt	<p>$S=0.7 \text{ mA/V}$ $\mu=16$ $R_i=23 \text{ k}\Omega$ $W_a=\text{max. } 0.6 \text{ W}$</p>
KBC32 ddt	<p>$S=1.2 \text{ mA/V}$ $\mu=25$ $R_i=21 \text{ k}\Omega$ $W_a=\text{max. } 0.6 \text{ W}$</p>
KC1 t	<p>$S=0.4 \text{ mA/V}$ $\mu=24$ $R_i=60 \text{ k}\Omega$ $W_a=\text{max. } 0.5 \text{ W}$</p>
KC3 t	<p>$S=2.2 \text{ mA/V}$ $\mu=25$ $R_i=10 \text{ k}\Omega$ $W_a=\text{max. } 1 \text{ W}$</p>

KC4 t	S= 0.8 mA/V $\mu = 30$ $R_{in} = 37.5 \text{ k}\Omega$ $W_a = \text{max. } 0.5 \text{ W}$	
KCH1 th	$S_c = 325 \mu \text{A/V}$ $V_{g1} = -0.5 \text{ V} \dots -20 \text{ V}$ $R_{in} = 1.5 \text{ M}\Omega$ $S_t = 1.3 \text{ mA/V max.}$	
KDD1 TT		
KF2 p		
KF3 p	$S = 0.5 \text{ mA/V}$ $V_{g1} = -0.5 \dots -9 \text{ V}$ $R_{in} = 2 \text{ M}\Omega$	
KF35 p	$S = 1 \text{ mA/V}$ $V_{g1} = -1.5 \dots -9 \text{ V}$ $R_{in} = 1.5 \text{ M}\Omega$	

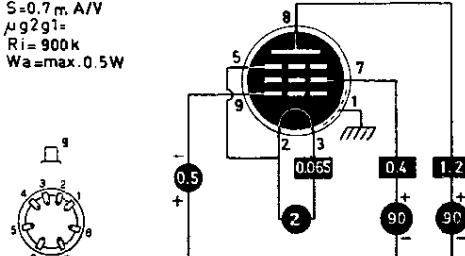
KF4

p

$S=0.7 \text{ mA/V}$
 $V_{g1}=-0.5 \text{ V}$
 $R_i = 900 \text{ k}$

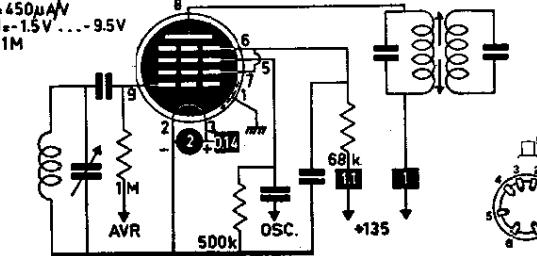


$S=0.7 \text{ mA/V}$
 $\mu g_2 g_1 =$
 $R_i = 900 \text{ k}$
 $W_a = \text{max. } 0.5 \text{ W}$

**KH1**

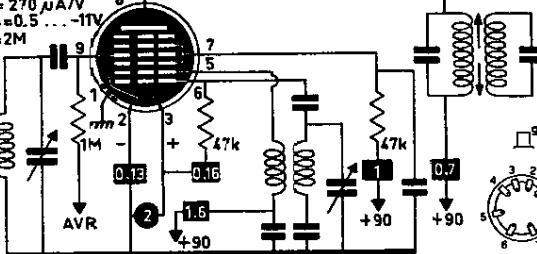
h

$S_c = 450 \mu \text{A/V}$
 $V_{g1} = -1.5 \dots -9.5 \text{ V}$
 $R_i = 1 \text{ M}$

**KK2**

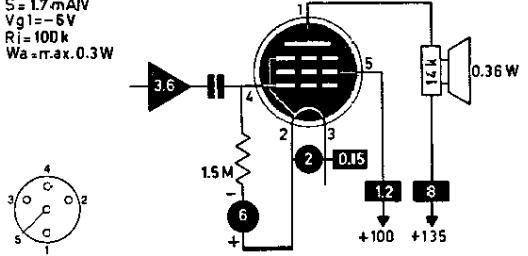
o

$S_c = 270 \mu \text{A/V}$
 $V_{g4} = 0.5 \dots -1 \text{ V}$
 $R_i = 2 \text{ M}$

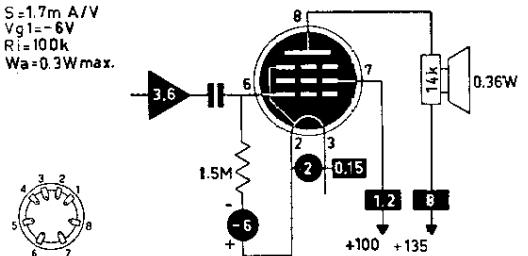
**KL1**

P

$S = 1.7 \text{ mA/V}$
 $V_{g1} = -6 \text{ V}$
 $R_i = 100 \text{ k}$
 $W_a = \text{max. } 0.3 \text{ W}$

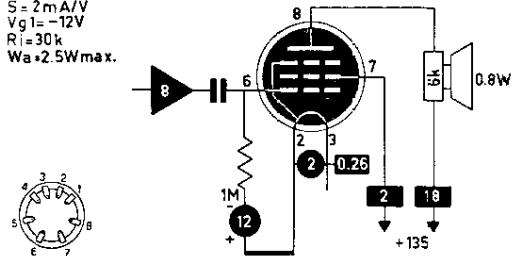


$S = 1.7 \text{ mA/V}$
 $V_{g1} = -6 \text{ V}$
 $R_i = 100 \text{ k}$
 $W_a = 0.3 \text{ W max.}$

**KL2**

P

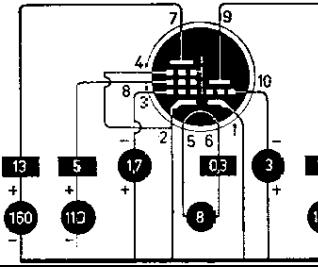
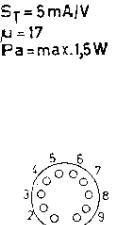
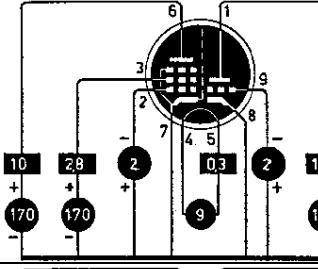
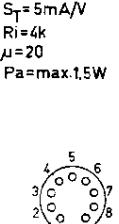
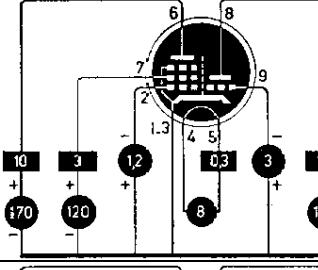
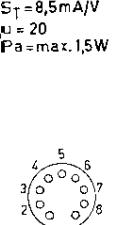
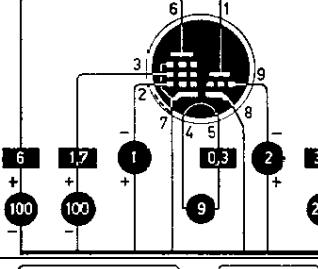
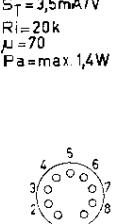
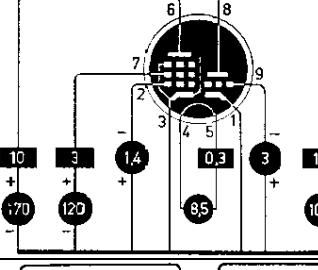
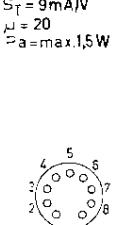
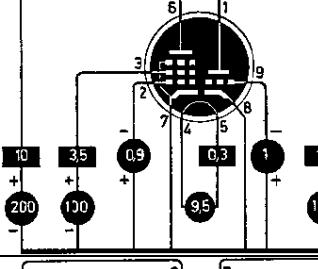
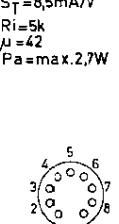
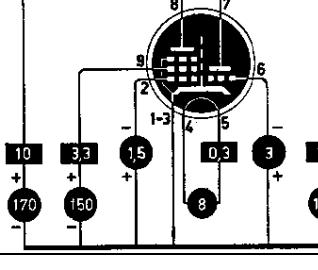
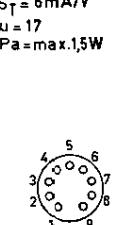
$S = 2 \text{ mA/V}$
 $V_{g1} = -12 \text{ V}$
 $R_i = 30 \text{ k}$
 $W_a = 2.5 \text{ W max.}$



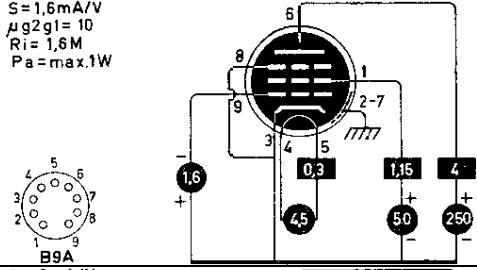
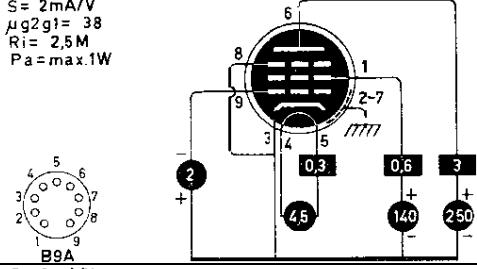
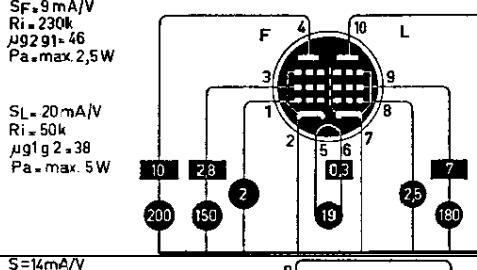
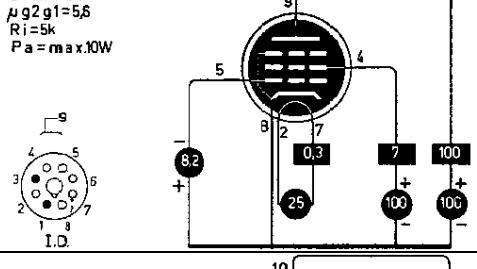
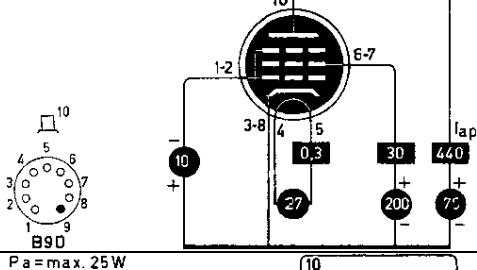
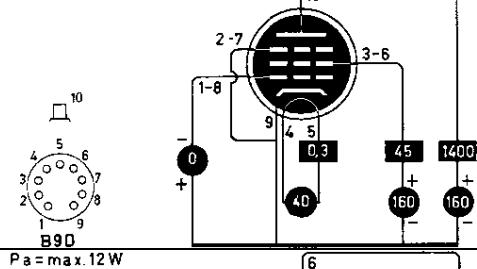
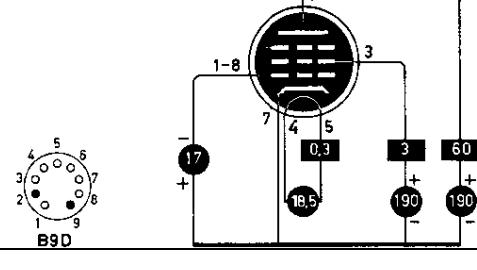
KL35 P	S = 2.2 mA/V Vg1 = -4.5 V Ri = 150 k
KL4 P	S = 1.8 mA/V Vg1 = -2.6 V Ri = 150 k $\mu g_2 g_1 = 13$ Wa = 1 W max.
KL5 p	S = 1.4 mA/V Vg1 = Ri = 180 k Wa = 2 W max.
KT66 P	S = 6.3 mA/V Vg1 = -15 V Ri = 22.5 k Pa = max. 25 W
ME4 ti	ME4 I V = 0 - 5
ME6 ti	ME6 I V = 0 - 5

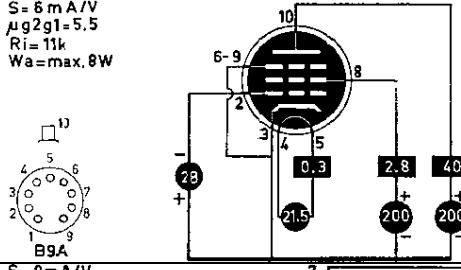
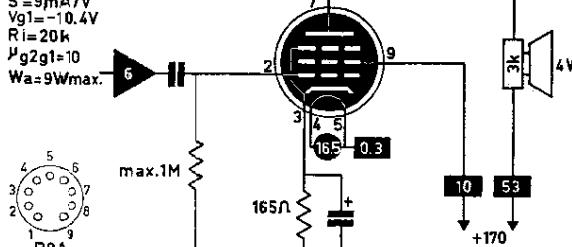
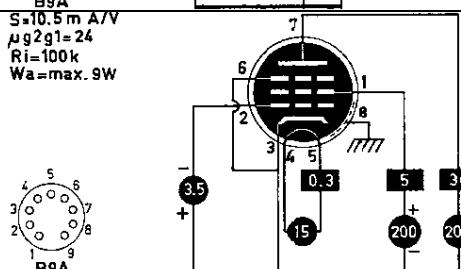
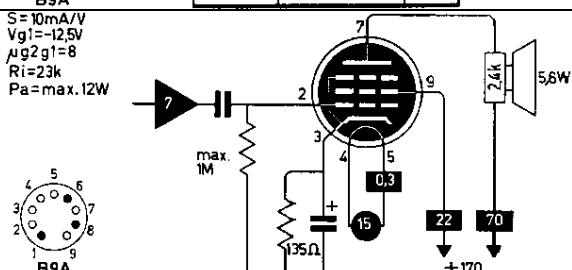
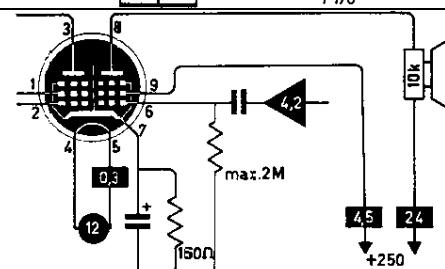
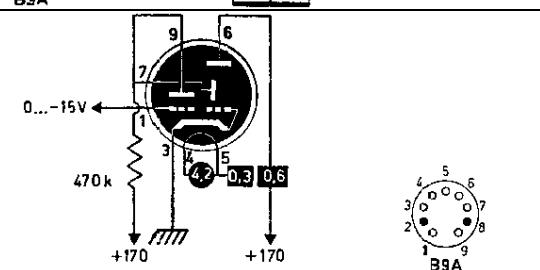
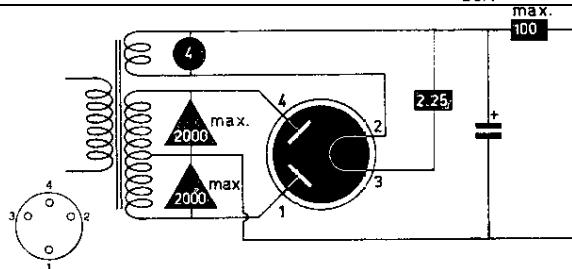
PABC80 ddt	S=1,45mA/V $\mu=70$ $R_i=48k$ $P_a=\text{max.}1W$	
PC86 t	S=14mA/V $\mu=68$ $P_a=\text{max.}2,2W$ $R_{eq}=230\Omega$	
PC88 t	S=13,5mA/V $\mu=65$ $P_a=\text{max.}2W$ $R_{eq}=240\Omega$	
PC900 t	S=14,5...145 mA/V $\mu=72$ $R_i=5k$ $P_a=\text{max.}2,2W$ $V_g \approx -1...5,7V$	
PC92 t	S= 7,2 mA/V $\mu=67$ $P_a=\text{max.}2,5W$ $R_{eq}=400\Omega$	
PC93 t	S= 8mA/V $\mu=15$ $R_i=1,9k$ $P_a=\text{max.}2,25W$	
PC95 t	S= 10,5mA/V $\mu=80$ $P_a=\text{max.}2,2W$	

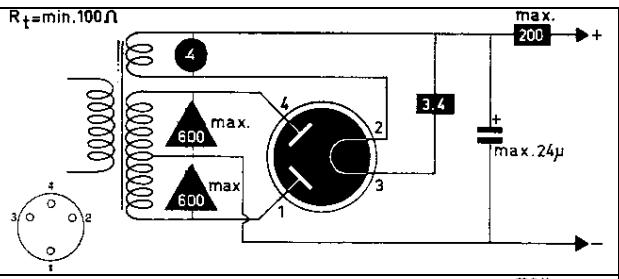
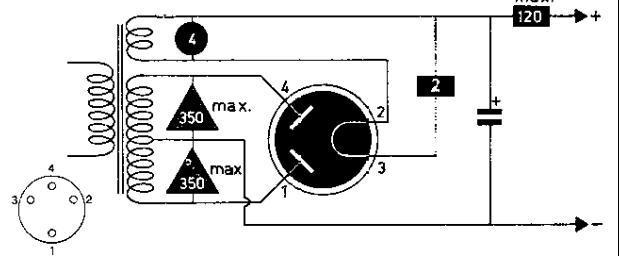
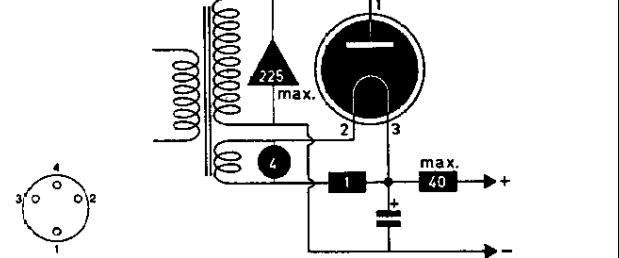
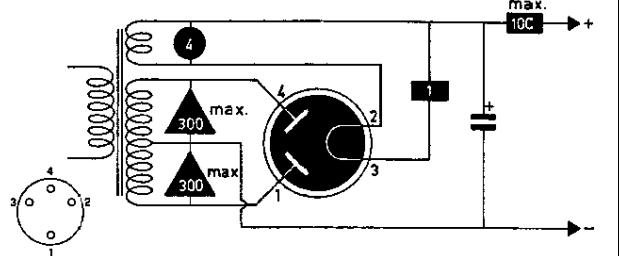
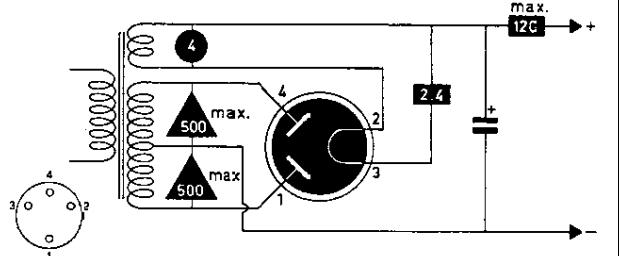
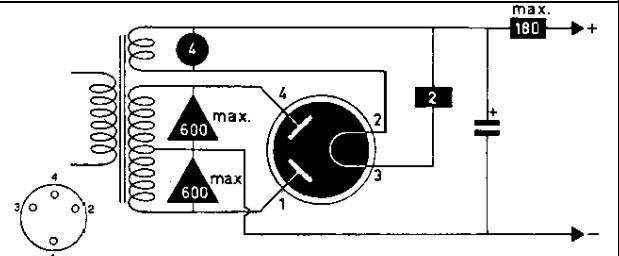
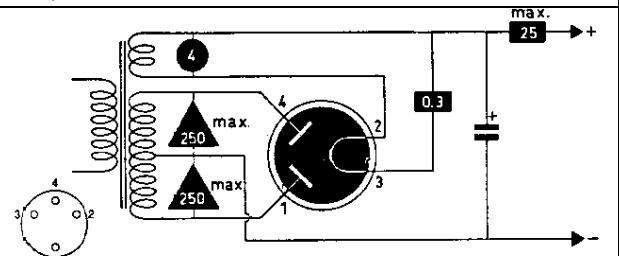
PC96 t	S= 6,7 mA/V $\mu = 200$ $R_i = 10\text{k}$ $P_a = \text{max. } 2,5\text{W}$ $\text{Req.} = 400\Omega$	
PC97 t	S= 13 mA/V $\mu = 65$ $R_i = 5\text{k}$ $P_a = \text{max. } 2,2\text{W}$	
PCC189 tt	S= 12,5 mA/V $\mu = 65$ $R_i = 2,5\text{k}$ $P_a = \text{max. } 2 \times 1,8\text{W}$	
PCC84 tt	S= 6 mA/V $\mu = 24$ $R_i = 4\text{k}$ $P_a = \text{max. } 2 \times 2\text{W}$	
PCC85 tt	S= 6,8 mA/V $\mu = 48$ $R_i = 8,3\text{k}$ $P_a = \text{max. } 2 \times 2.5\text{W}$	
PCC88 tt	S= 12,5 mA/V $\mu = 33$ $R_i = 2,64\text{k}$ $P_a = \text{max. } 2 \times 1,8\text{W}$ $\text{Req.} = 300\Omega$	
PCF200 tp	$S_T = 14\text{ mA/V}$ $\mu_{g2g1} = 55$ $P_a = \text{max. } 2,1\text{W}$	

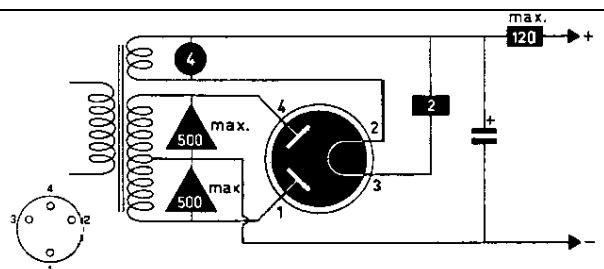
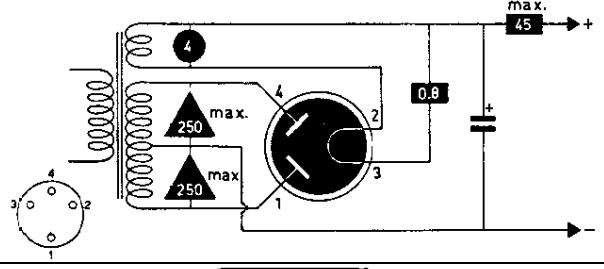
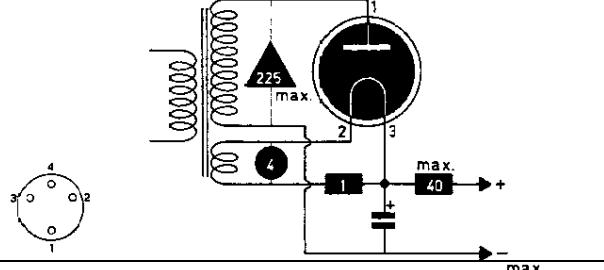
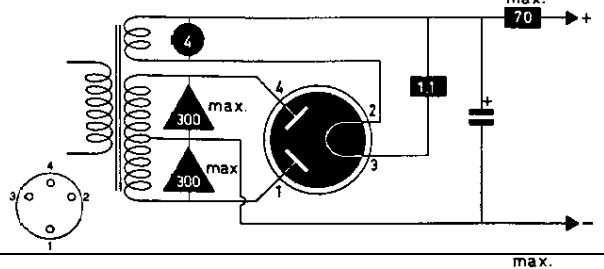
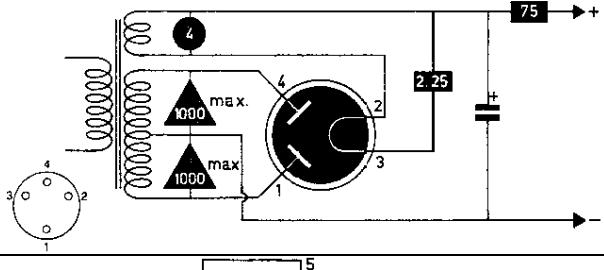
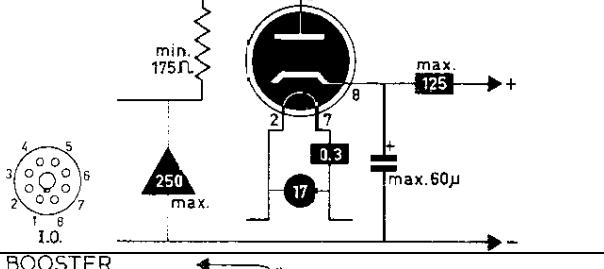
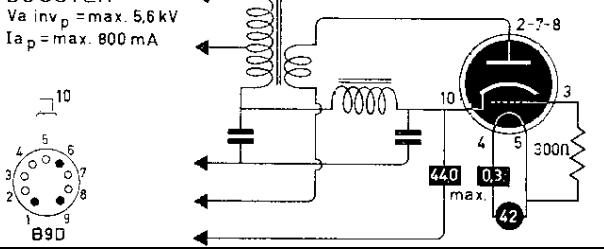
PCF201 tp	$S_p = 12 \text{ mA/V}$ $\mu g_2 g_1 = 45$ $P_a = \text{max. } 2,1 \text{ W}$		$S_T = 9 \text{ mA/V}$ $\mu = 17$ $P_a = \text{max. } 1,5 \text{ W}$	
PCF80 tp	$S_p = 6,2 \text{ mA/V}$ $R_i = 400 \text{ k}\Omega$ $\mu g_2 g_1 = 47$ $P_a = \text{max. } 1,7 \text{ W}$ $R_{eq} = 1,5 \text{ k}\Omega$		$S_T = 5 \text{ mA/V}$ $R_i = 4 \text{ k}\Omega$ $\mu = 20$ $P_a = \text{max. } 1,5 \text{ W}$	
PCF801 tp	$S_p = 10,5 \text{ mA/V}$ $R_i = 350 \text{ k}\Omega$ $\mu g_2 g_1 = 55$ $P_a = \text{max. } 2 \text{ W}$ $R_{eq} = 1,5 \text{ k}\Omega$		$S_T = 8,5 \text{ mA/V}$ $\mu = 20$ $P_a = \text{max. } 1,5 \text{ W}$	
PCF802 tp	$S_p = 5,5 \text{ mA/V}$ $R_i = 400 \text{ k}\Omega$ $\mu g_2 g_1 = 47$ $P_a = \text{max. } 1,2 \text{ W}$		$S_T = 3,5 \text{ mA/V}$ $R_i = 20 \text{ k}\Omega$ $\mu = 70$ $P_a = \text{max. } 1,4 \text{ W}$	
PCF803 tp	$S_p = 11 \text{ mA/V}$ $R_i = 350 \text{ k}\Omega$ $\mu g_2 g_1 = 55$ $P_a = \text{max. } 2 \text{ W}$ $R_{eq} = 1,5 \text{ k}\Omega$		$S_T = 9 \text{ mA/V}$ $\mu = 20$ $P_a = \text{max. } 1,5 \text{ W}$	
PCF82 tp	$S_p = 5,2 \text{ mA/V}$ $R_i = 400 \text{ k}\Omega$ $P_a = \text{max. } 2,8 \text{ W}$		$S_T = 8,5 \text{ mA/V}$ $R_i = 5 \text{ k}\Omega$ $\mu = 42$ $P_a = \text{max. } 2,7 \text{ W}$	
PCF86 tp	$S_p = 12 \text{ mA/V}$ $R_i = 350 \text{ k}\Omega$ $\mu g_2 g_1 = 60$ $P_a = \text{max. } 2 \text{ W}$ $R_{eq} = 1 \text{ k}\Omega$		$S_T = 6 \text{ mA/V}$ $\mu = 17$ $P_a = \text{max. } 1,5 \text{ W}$	

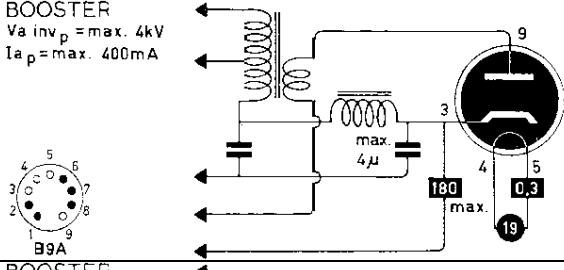
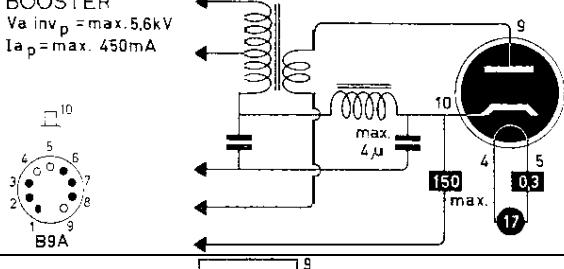
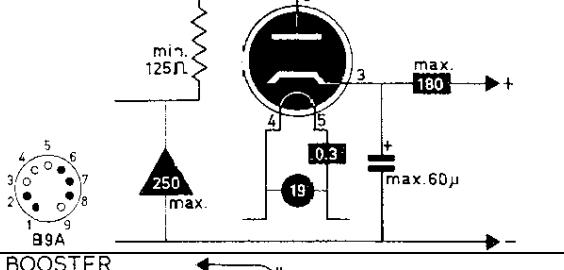
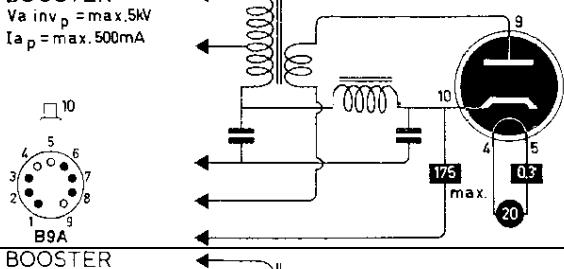
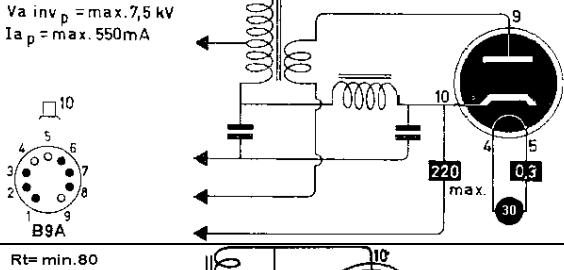
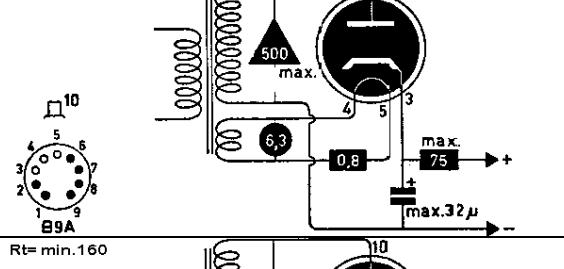
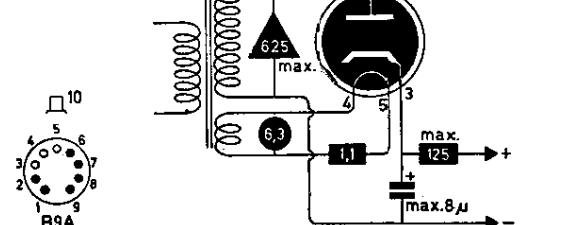
PCH200 tH	$P_a = \text{max. } 1\text{W}$		$S_T = 8.5 \text{ mA/V}$ $\mu = 48$ $P_a = \text{max. } 1.5\text{W}$
PCL81 tP	$S_p = 8.75 \text{ mA/V}$ $R_i = 22\text{k}$ $P_a = \text{max. } 6.5\text{W}$		$S_T = 2 \text{ mA/V}$ $R_i = 22\text{k}$ $\mu = 43$ $P_a = \text{max. } 1\text{W}$
PCL82 tP	$S_p = 7.5 \text{ mA/V}$ $R_i = 16\text{k}$ $\mu g_2 g_1 = 9.5\text{k}$ $P_a = \text{max. } 7\text{W}$		$S_T = 2.5 \text{ mA/V}$ $R_i = 32\text{k}$ $\mu = 70$ $P_a = \text{max. } 4\text{W}$
PCL84 tP	$S_p = 10 \text{ mA/V}$ $R_i = 150\text{k}$ $\mu g_2 g_1 = 36$ $P_a = \text{max. } 4\text{W}$		$S_T = 4 \text{ mA/V}$ $R_i = 16\text{k}$ $\mu = 65$ $P_a = \text{max. } 1\text{W}$
PCL85 tP	$P_a = \text{max. } 9\text{W}$		$S_T = 5.5 \text{ mA/V}$ $R_i = 9\text{k}$ $\mu = 50$ $P_a = \text{max. } 0.5\text{W}$
PCL86 tP	$S_p = 10.5 \text{ mA/V}$ $R_i = 48\text{k}$ $P_a = \text{max. } 9\text{W}$ $S_T = 1.6 \text{ mA/V}$ $R_i = 62.5\text{k}$ $P_a = \text{max. } 0.5\text{W}$		$S_T = 1.6 \text{ mA/V}$ $R_i = 62.5\text{k}$ $P_a = \text{max. } 0.5\text{W}$
PD500 T	$P_a = \text{max. } 30\text{W}$ $V_g \approx -18 \dots -40\text{V}$		$P_a = \text{max. } 30\text{W}$ $V_g \approx -18 \dots -40\text{V}$ $0.1 \dots 1.5$ 25 kV

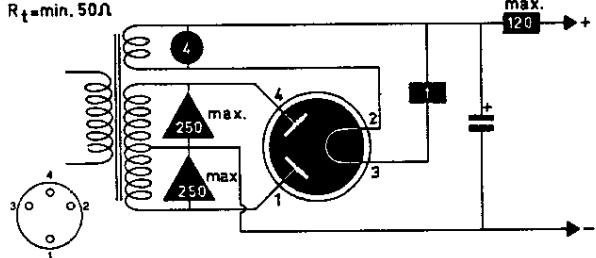
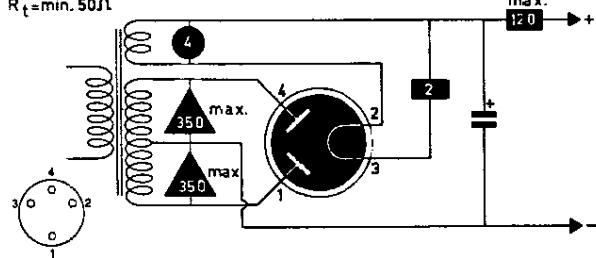
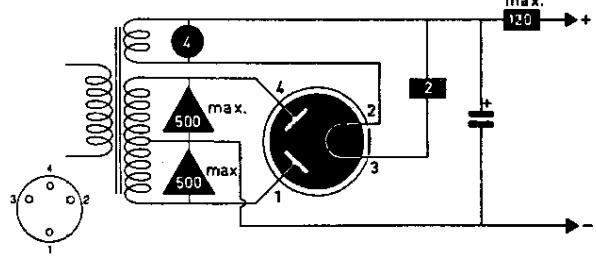
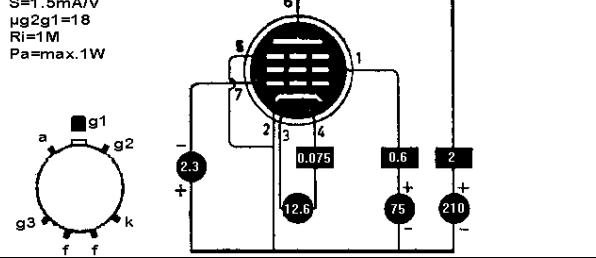
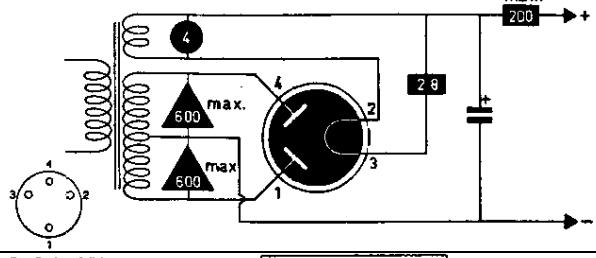
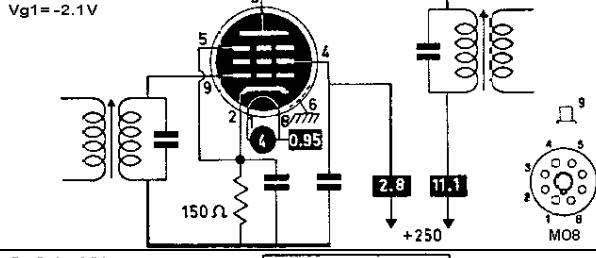
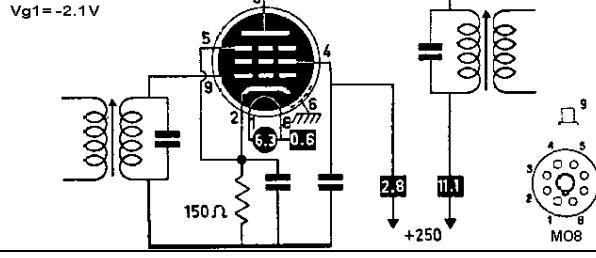
PF83 p	S=1,6mA/V $\mu g_2 g_1 = 10$ $R_i = 1,6M$ $P_a = \text{max.} 1W$	
PF86 p	S= 2mA/V $\mu g_2 g_1 = 38$ $R_i = 2,5M$ $P_a = \text{max.} 1W$	
PFL200 pP	S= 9mA/V $R_i = 230k$ $\mu g_2 g_1 = 46$ $P_a = \text{max.} 2,5W$	
PL36 P	S=14mA/V $\mu g_2 g_1 = 5,6$ $R_i = 5k$ $P_a = \text{max.} 10W$	
PL500 P		
PL505 P	$P_a = \text{max.} 25W$	
PL508 P	$P_a = \text{max.} 12W$	

PL81 P	S=6 mA/V $\mu g_2 g_1=5.5$ $R_i=11k$ $W_a=\text{max. } 8W$	
PL82 P	S=9 mA/V $V_{g1}=-10.4V$ $R_i=20k$ $\mu g_2 g_1=10$ $W_a=9W\text{max.}$	
PL83 P	S=10.5 mA/V $\mu g_2 g_1=24$ $R_i=100k$ $W_a=\text{max. } 9W$	
PL84 P	S=10 mA/V $V_{g1}=-12.5V$ $\mu g_2 g_1=8$ $R_i=23k$ $P_a=\text{max. } 12W$	
PLL80 PP	S=6 mA/V $V_{g1}=-9V$ $R_i=80k$ $P_a=\text{max. } 2.5W$	
PM84 ti		
PV100/2000 RR		

PV200/600 rr	
PV4 rr	
PV400 r	
PV4100 rr	
PV4200 rr	
PV4201 rr	
PV430 rr	

PV4300 rr	
PV475 rr	
PV480 r	
PV495 rr	
PV75/1000 RR	
PY31 r	
PY500 R	

PY80 R	BOOSTER $V_{a\ inv_p} = \text{max. } 4\text{kV}$ $I_{a_p} = \text{max. } 400\text{mA}$	
PY81 R	BOOSTER $V_{a\ inv_p} = \text{max. } 5.6\text{kV}$ $I_{a_p} = \text{max. } 450\text{mA}$	
PY82 R		
PY83 R	BOOSTER $V_{a\ inv_p} = \text{max. } 5\text{kV}$ $I_{a_p} = \text{max. } 500\text{mA}$	
PY88 R	BOOSTER $V_{a\ inv_p} = \text{max. } 7.5\text{kV}$ $I_{a_p} = \text{max. } 550\text{mA}$	
R17 R	$R_t = \text{min. } 80$	
R18 R	$R_t = \text{min. } 160$	

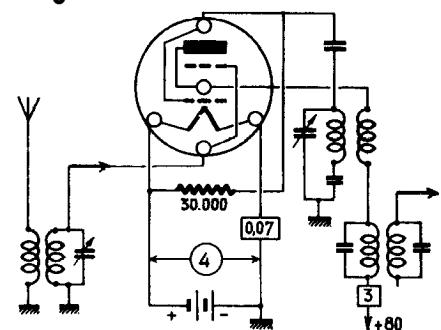
RV120/250 rr	$R_t = \text{min. } 50\Omega$ 
RV120/350 rr	$R_t = \text{min. } 50\Omega$ 
RV120/500 rr	$R_t = \text{min. } 50\Omega$ 
RV12P2000 p	$S=1.5\text{mA/V}$ $\mu g_2 g_1=18$ $R_i=1\text{M}$ $P_a=\text{max. } 1\text{W}$ 
RV200/600 rr	$R_t = \text{min. } 50\Omega$ 
SP41 p	$S=8.4\text{mA/V}$ $V_{g1}=-2.1\text{V}$ 
SP61 p	$S=8.4\text{mA/V}$ $V_{g1}=-2.1\text{V}$ 

TA31

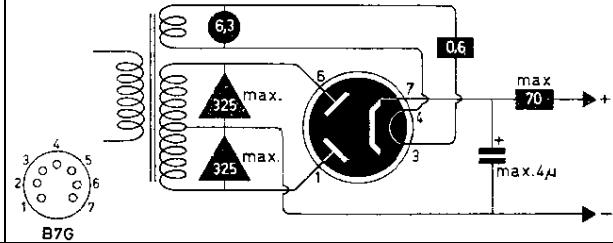
q

TA31

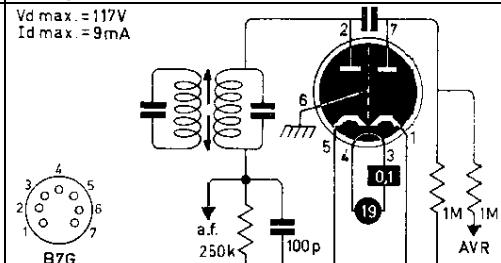
c

 $S_C = 0.2$ **U78**

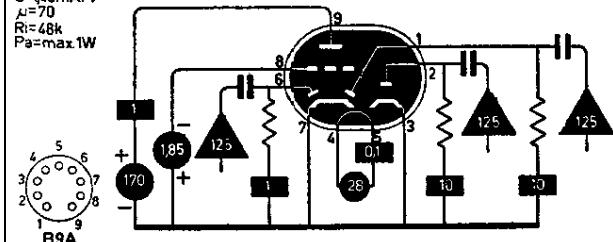
rr

 $R_t = \text{min. } 450\Omega$ **UAA91**

dd

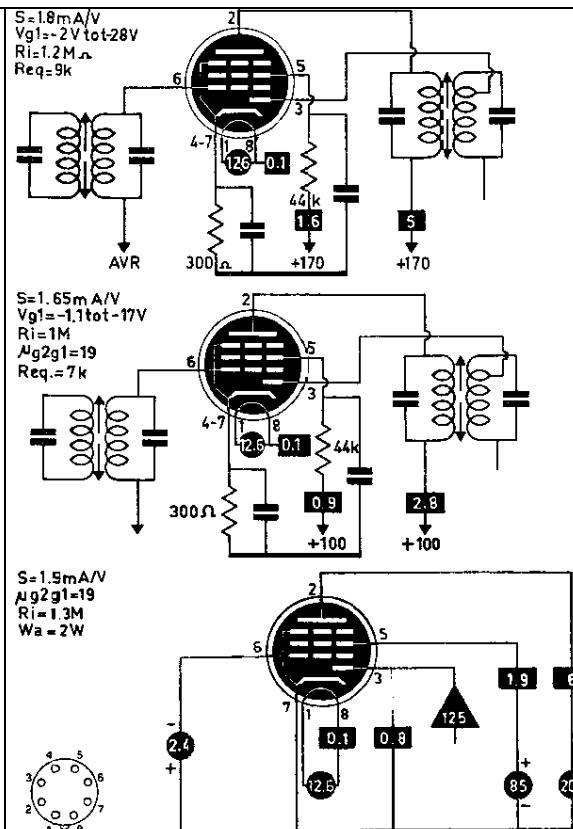
 $V_d \text{ max.} = 117V$
 $I_d \text{ max.} = 9mA$ **UABC80**

dddt

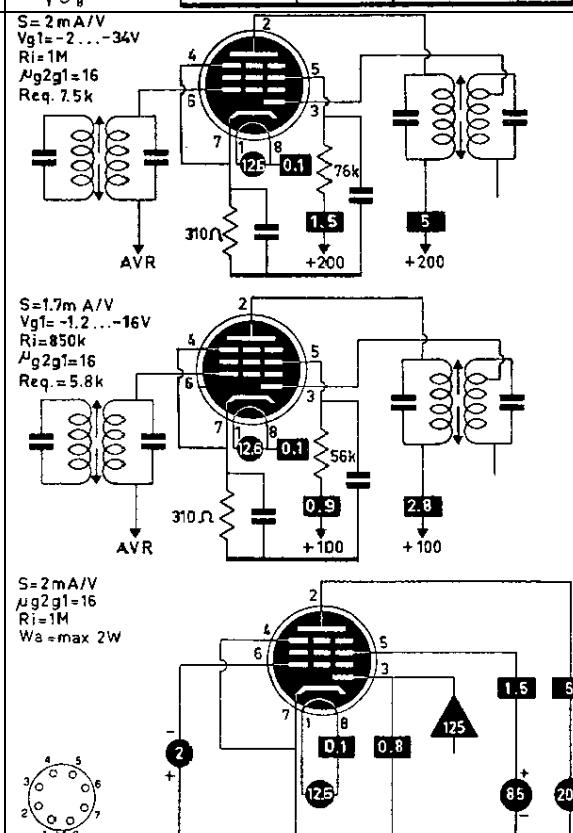
 $S=15mA/V$
 $\mu=70$
 $R_i=48k$
 $P_a=\text{max. } 1W$ 

UAF41

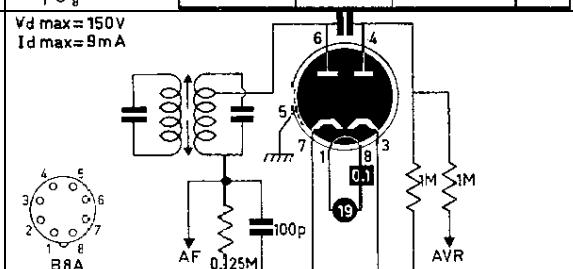
dp

**UAF42**

dp

**UB41**

dd

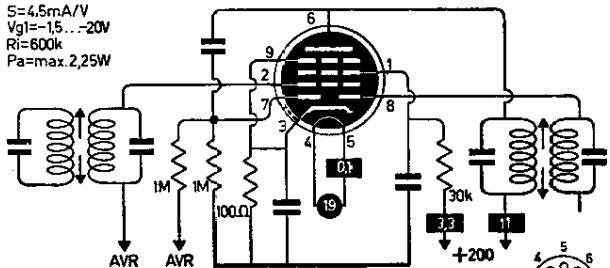


UBC41 ddt	<p>$S = 1.65 \text{ mA/V}$ $\mu = 70$ $R_i = 42\text{k}$ $W_a = \text{max. } 0.5\text{ W}$</p>
UBC81 ddt	<p>$S = 1.65 \text{ mA/V}$ $\mu = 70$ $R_i = 42\text{k}$ $W_a = \text{max. } 0.5\text{ W}$</p>
UBF11 ddp	<p>$S = 1.8 \text{ mA/V}$ $V_{g1} = -2 \dots -46 \text{ V}$ $R_i = 1.5\text{M}$ $W_a = \text{max. } 1.5\text{ W}$</p> <p>$S = 1.8 \text{ mA/V}$ $\mu g_2 g_1 = 14$ $R_i = 1.5\text{M}$ $W_a = \text{max. } 1.5\text{ W}$</p>
UBF80 ddp	<p>$S = 2.2 \text{ mA/V}$ $V_{g1} = -2 \dots -31.5 \text{ V}$ $R_i = 1\text{M}$ $\mu g_2 g_1 = 18$ $R_{eq} = 6.2\text{k}$</p> <p>$S = 1.9 \text{ mA/V}$ $V_{g1} = -1.15 \dots -15.5 \text{ V}$ $R_i = 900\text{k}$ $\mu g_2 g_1 = 18$ $R_{eq} = 4.6\text{k}$</p> <p>$S = 2.2 \text{ mA/V}$ $\mu g_2 g_1 = 18$ $R_i = 1\text{M}$ $W_a = \text{max. } 1.5\text{ W}$</p>

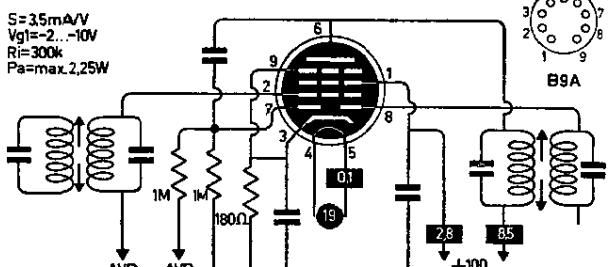
UBF89

ddp

$S=4.5\text{mA/V}$
 $V_{g1}=-15 \dots -20\text{V}$
 $R_i=600\text{k}$
 $P_a=\text{max. } 2.25\text{W}$

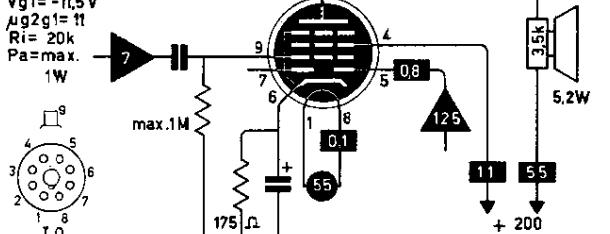


$S=3.5\text{mA/V}$
 $V_{g1}=-2 \dots -10\text{V}$
 $R_i=300\text{k}$
 $P_a=\text{max. } 2.25\text{W}$

**UBL1**

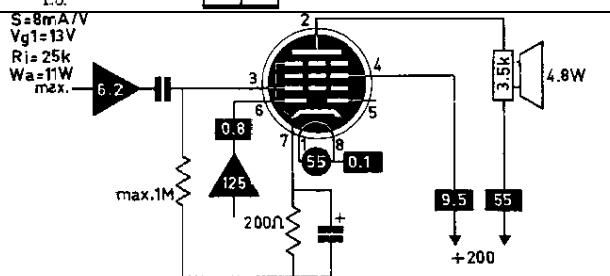
ddP

$S=8.5\text{mA/V}$
 $V_{g1}=-11.5\text{V}$
 $\mu g_2 g_1=11$
 $R_i=20\text{k}$
 $P_a=\text{max. } 1\text{W}$

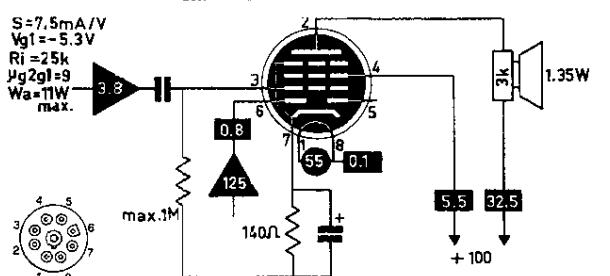
**UBL21**

ddP

$S=8\text{mA/V}$
 $V_{g1}=13\text{V}$
 $R_i=25\text{k}$
 $W_a=11\text{W}$
 max.

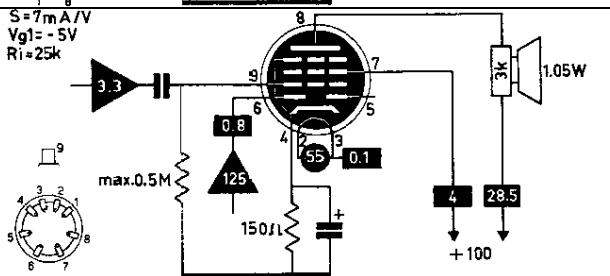


$S=7.5\text{mA/V}$
 $V_{g1}=-5.3\text{V}$
 $R_i=25\text{k}$
 $\mu g_2 g_1=9$
 $W_a=1\text{W}$
 max.

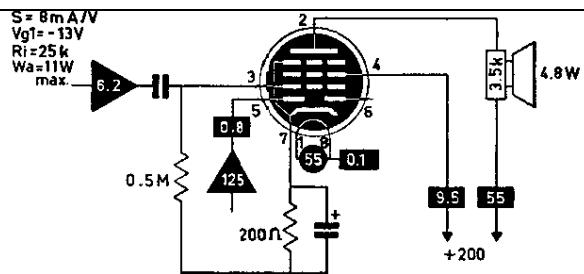
**UBL3**

ddP

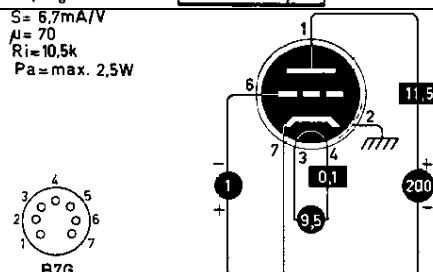
$S=7\text{mA/V}$
 $V_{g1}=-5\text{V}$
 $R_i=25\text{k}$



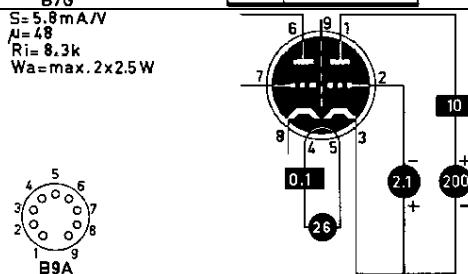
UBL71
ddP



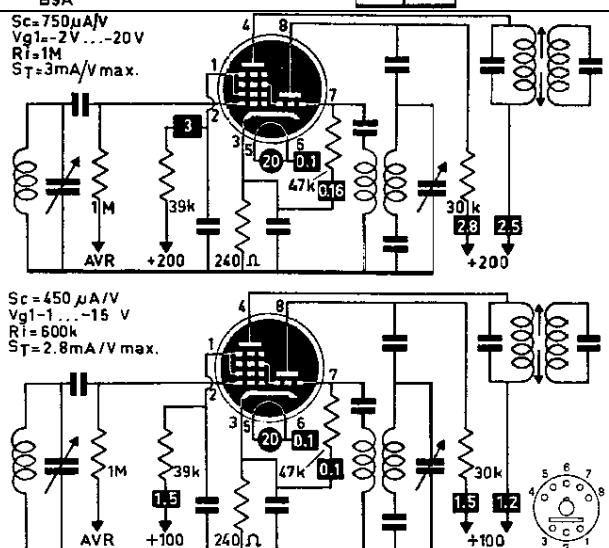
UC92
t



UCC85
tt

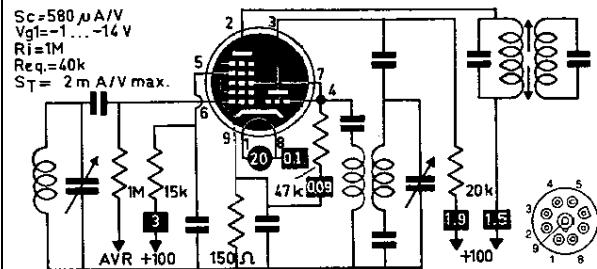
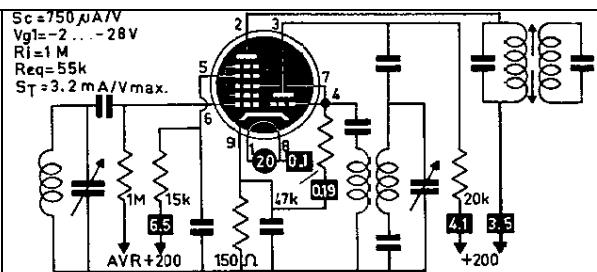


UCH11
th

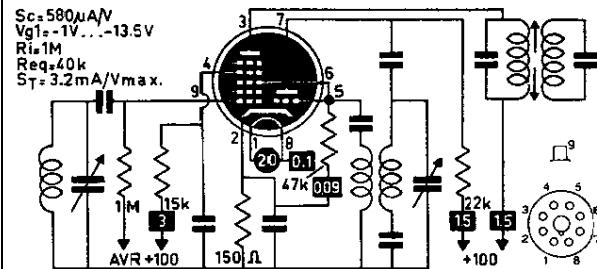
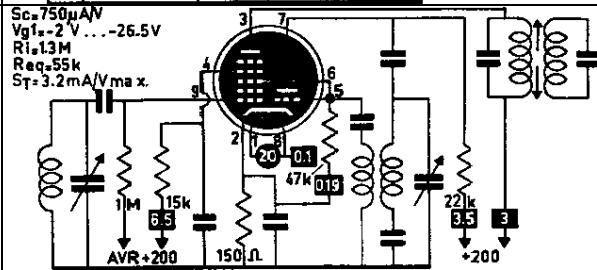


UCH21

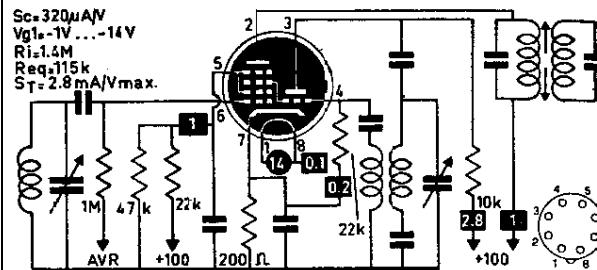
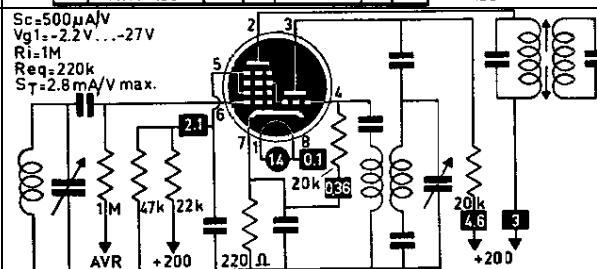
tH

**UCH4**

tH

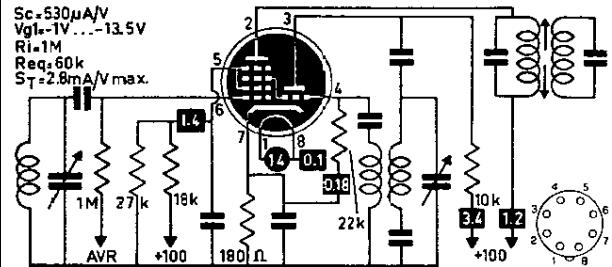
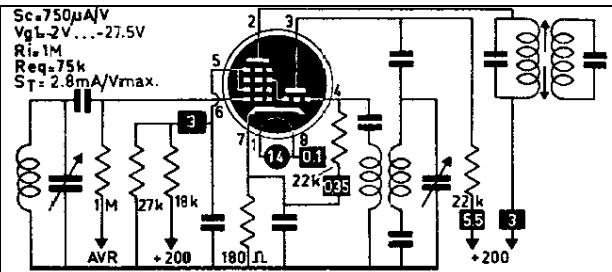
**UCH41**

th

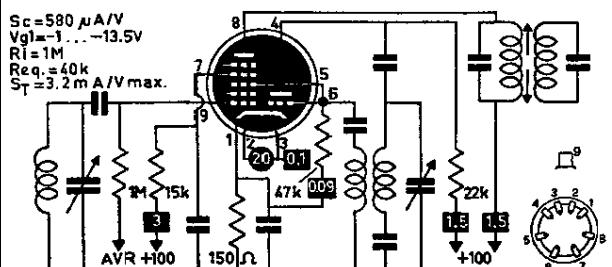
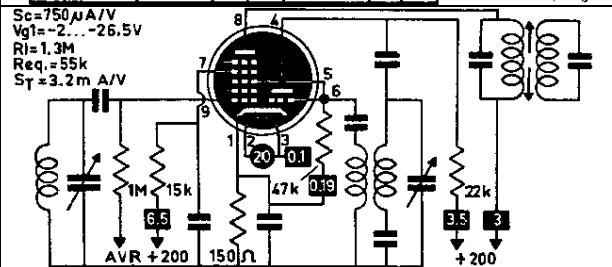


UCH42

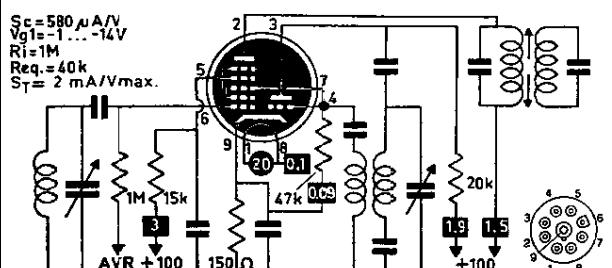
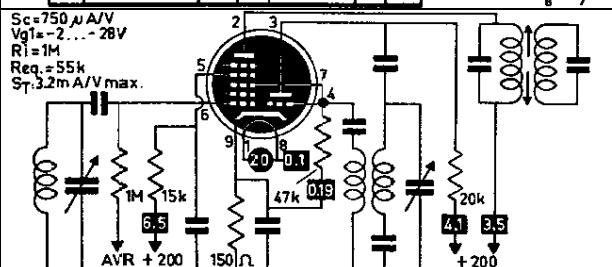
tH

**UCH5**

tH

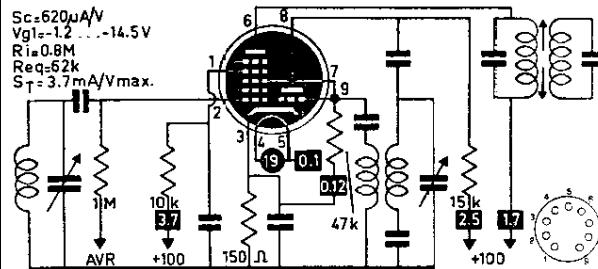
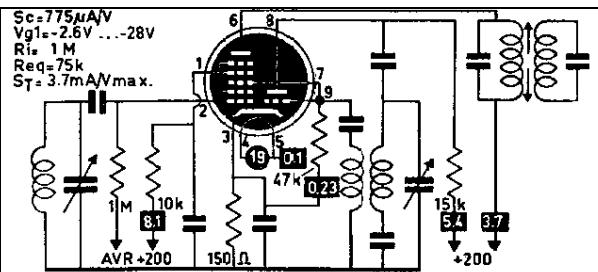
**UCH71**

tH

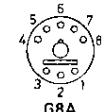
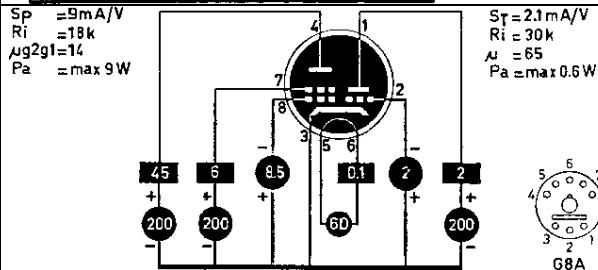


UCH81

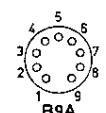
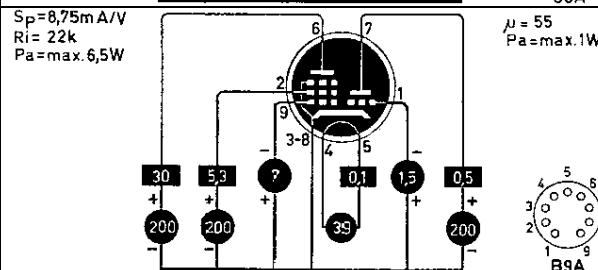
tH

**UCL11**

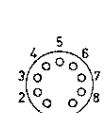
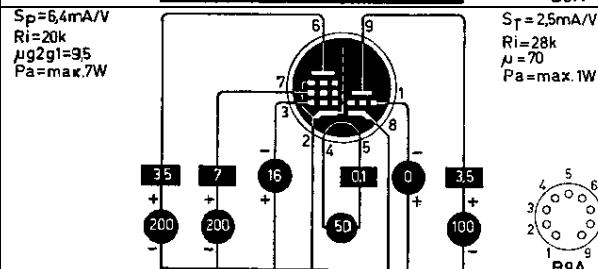
tQ

**UCL81**

tP

**UCL82**

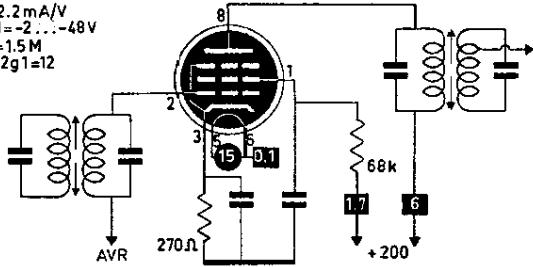
tP



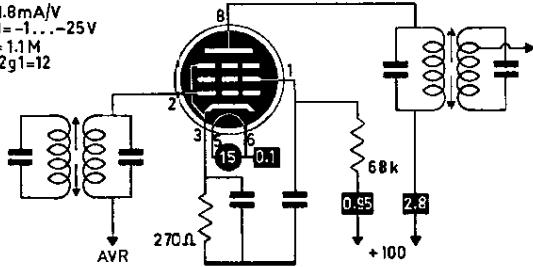
UF11

p

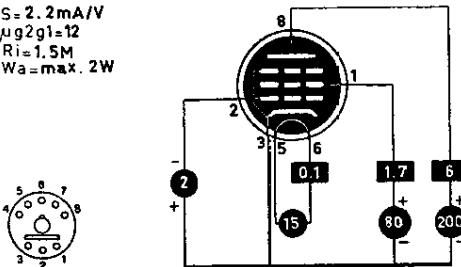
$S=2.2\text{ mA/V}$
 $V_{g1}=-2\ldots-48\text{ V}$
 $R_i=1.5\text{ M}$
 $\mu g_2 g_1=12$



$S=1.8\text{ mA/V}$
 $V_{g1}=-1\ldots-25\text{ V}$
 $R_i=1.1\text{ M}$
 $\mu g_2 g_1=12$

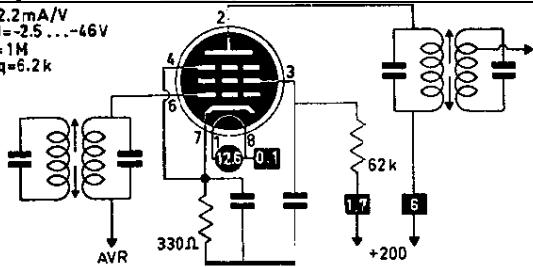


$S=2.2\text{ mA/V}$
 $\mu g_2 g_1=12$
 $R_i=1.5\text{ M}$
 $W_a=\text{max. } 2\text{ W}$

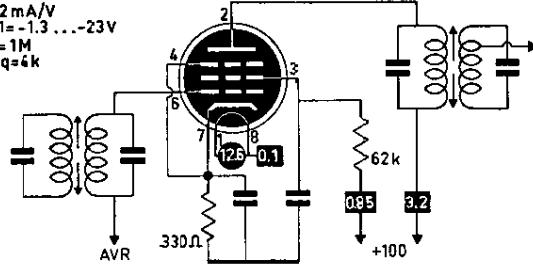
**UF21**

p

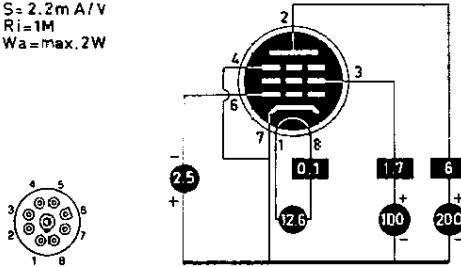
$S=2.2\text{ mA/V}$
 $V_{g1}=-2.5\ldots-46\text{ V}$
 $R_i=1\text{ M}$
 $R_{eq}=6.2\text{ k}$



$S=2\text{ mA/V}$
 $V_{g1}=-1.3\ldots-23\text{ V}$
 $R_i=1\text{ M}$
 $R_{eq}=6\text{ k}$



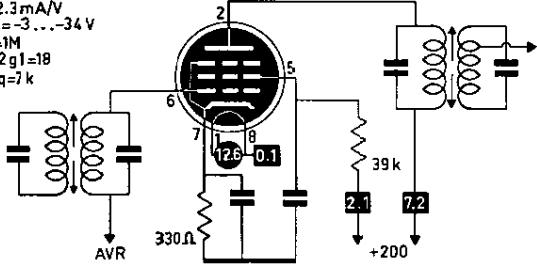
$S=2.2\text{ mA/V}$
 $R_i=1\text{ M}$
 $W_a=\text{max. } 2\text{ W}$



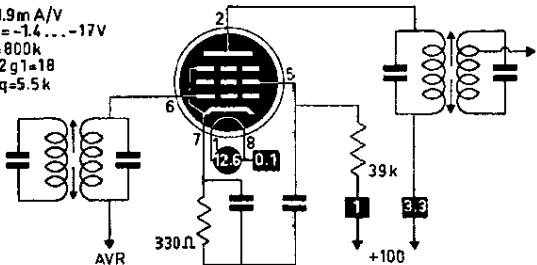
UF41

p

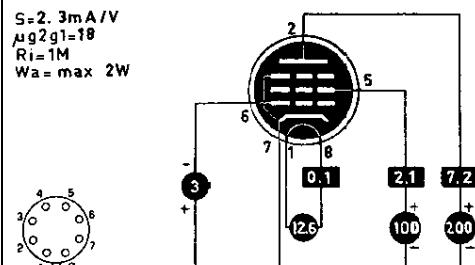
$S=2.3\text{ mA/V}$
 $V_{g1}=-3 \dots -34\text{ V}$
 $R_i=1\text{ M}$
 $\mu g_2 g_1=18$
 $R_{eq}=7\text{ k}$



$S=1.9\text{ mA/V}$
 $V_{g1}=-1.4 \dots -17\text{ V}$
 $R_i=800\text{ k}$
 $\mu g_2 g_1=18$
 $R_{eq}=5.5\text{ k}$

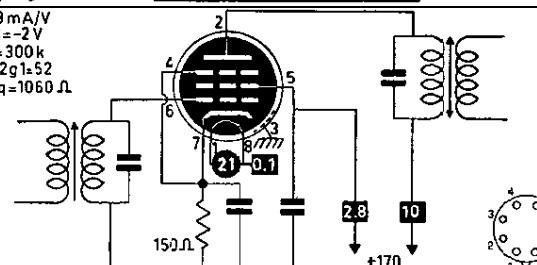


$S=2.3\text{ mA/V}$
 $\mu g_2 g_1=18$
 $R_i=1\text{ M}$
 $W_a = \text{max } 2\text{ W}$

**UF42**

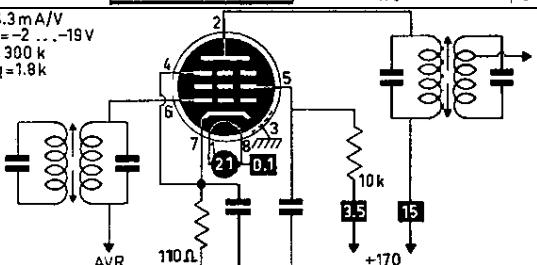
p

$S=8\text{ mA/V}$
 $V_{g1}=-2\text{ V}$
 $R_i=300\text{ k}$
 $\mu g_2 g_1=52$
 $R_{eq}=1060\text{ }\Omega$

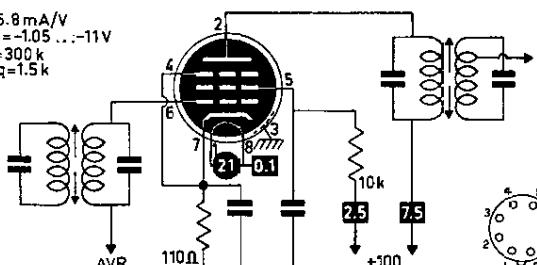
**UF43**

p

$S=6.3\text{ mA/V}$
 $V_{g1}=-2 \dots -19\text{ V}$
 $R_i=300\text{ k}$
 $R_{eq}=1.8\text{ k}$



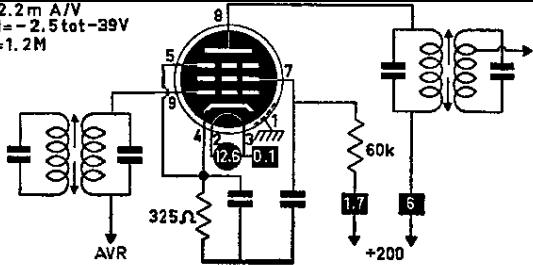
$S=5.8\text{ mA/V}$
 $V_{g1}=-1.05 \dots -11\text{ V}$
 $R_i=300\text{ k}$
 $R_{eq}=1.5\text{ k}$



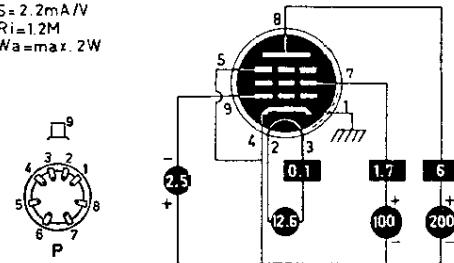
UF5

p

$S=2.2 \text{ mA/V}$
 $V_{g1}=-2.5 \dots -39 \text{ V}$
 $R_i=1.2 \text{ M}$

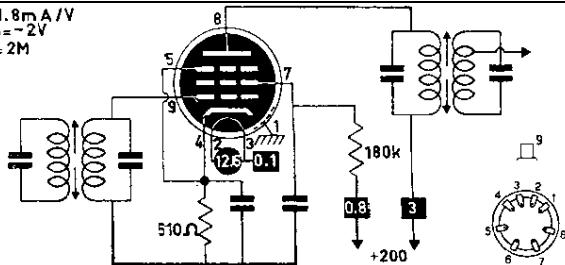


$S=2.2 \text{ mA/V}$
 $R_i=1.2 \text{ M}$
 $W_a=\text{max. } 2 \text{ W}$

**UF6**

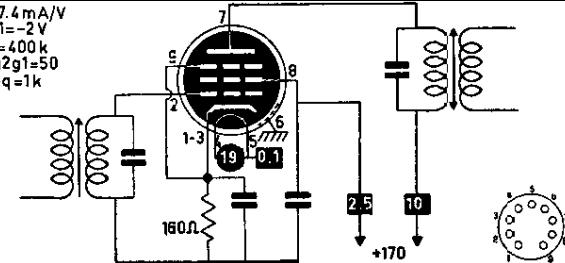
p

$S=1.8 \text{ mA/V}$
 $V_{g1}=-2 \text{ V}$
 $R_i=2 \text{ M}$

**UF80**

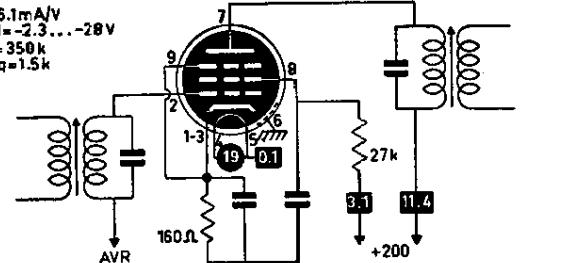
p

$S=7.4 \text{ mA/V}$
 $V_{g1}=-2 \text{ V}$
 $R_i=400 \text{ k}$
 $\mu g_2 g_1=50$
 $R_{eq}=1 \text{ k}$

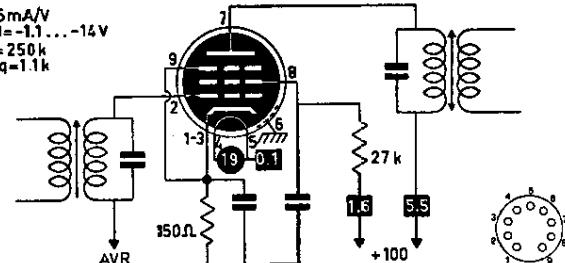
**UF85**

p

$S=6.1 \text{ mA/V}$
 $V_{g1}=-2.3 \dots -28 \text{ V}$
 $R_i=350 \text{ k}$
 $R_{eq}=1.5 \text{ k}$



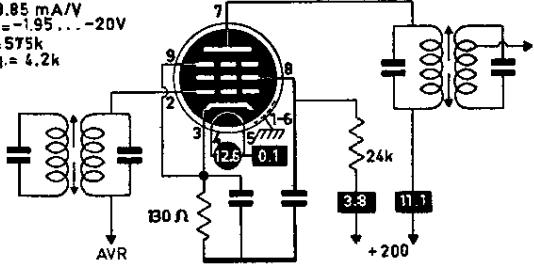
$S=5 \text{ mA/V}$
 $V_{g1}=-1.1 \dots -14 \text{ V}$
 $R_i=250 \text{ k}$
 $R_{eq}=1.1 \text{ k}$



UF89

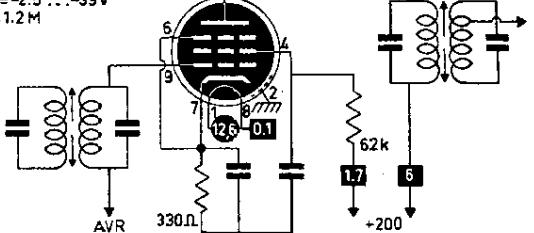
p

$S=3.85 \text{ mA/V}$
 $V_{g1}=-1.95 \dots -20V$
 $R_i=575k$
 $R_{eq}=4.2k$

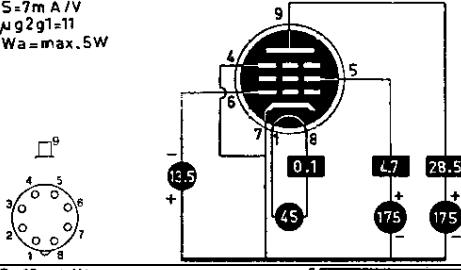
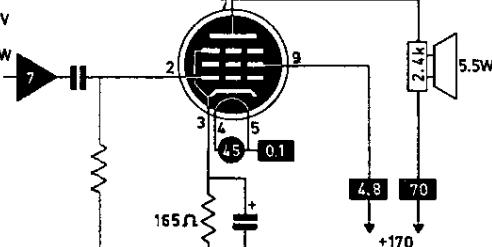
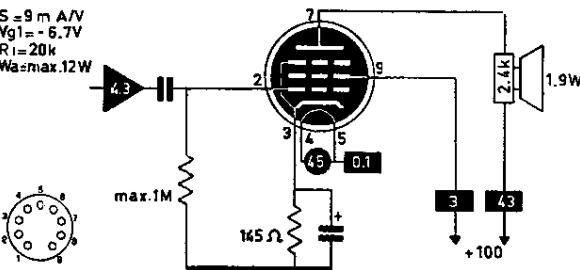
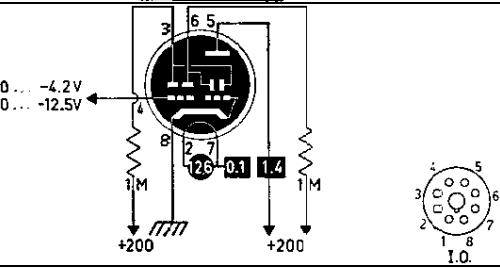
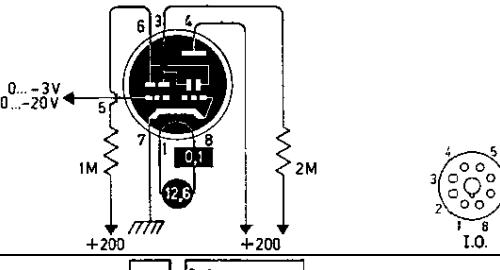
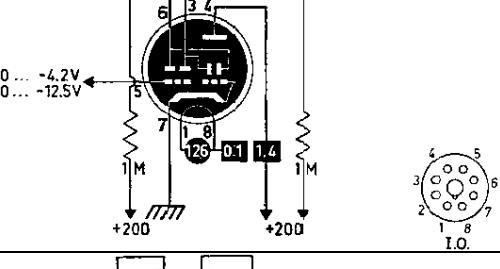
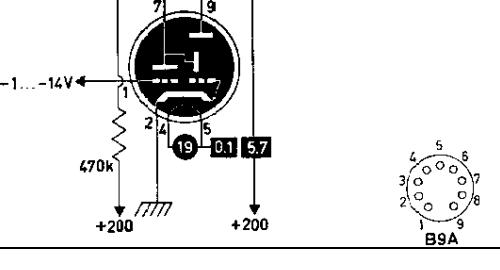
**UF9**

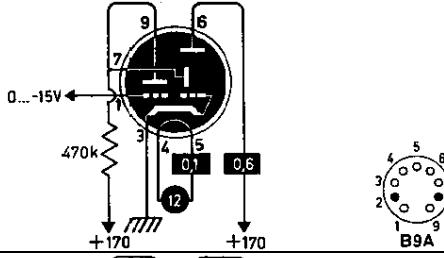
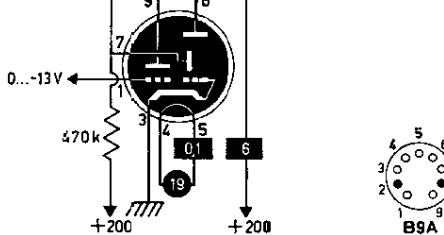
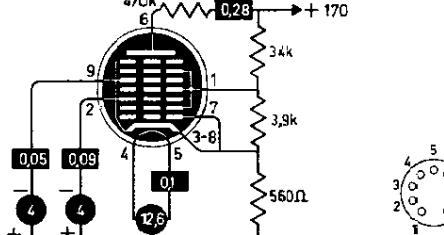
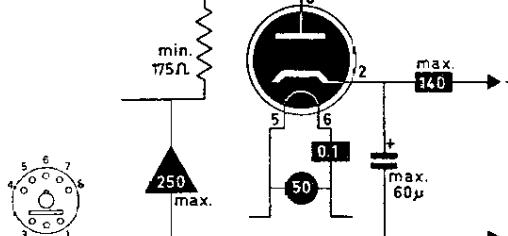
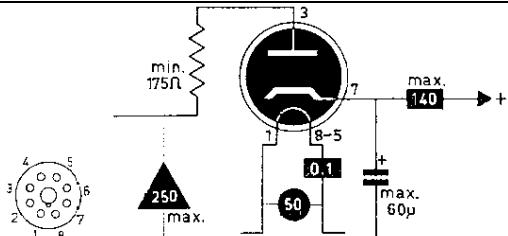
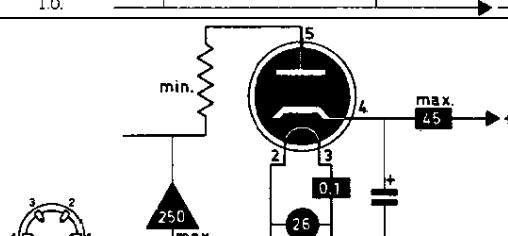
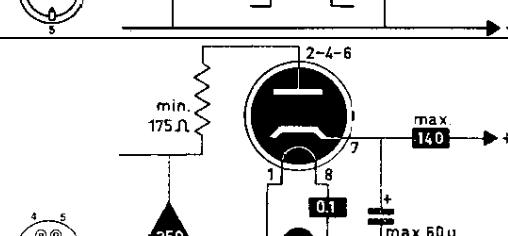
p

$S=2.2 \text{ mA/V}$
 $V_{g1}=-2.5 \dots -39V$
 $R_i=1.2M$

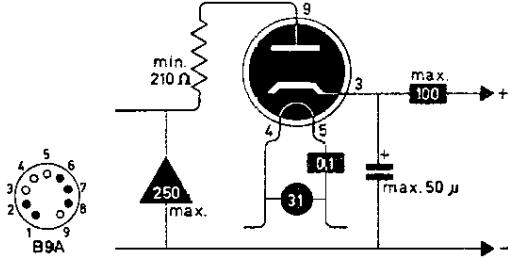
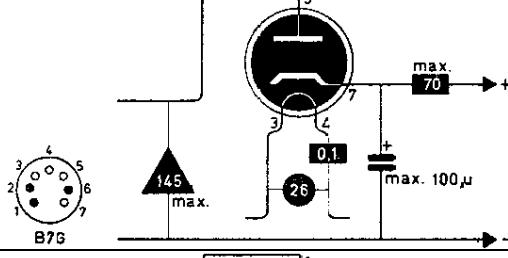
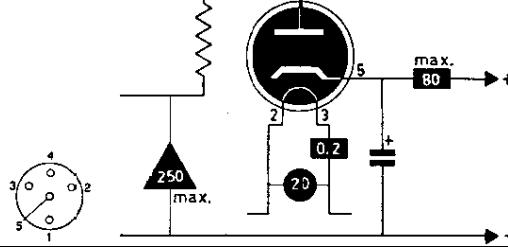
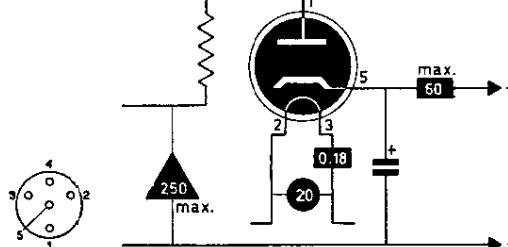
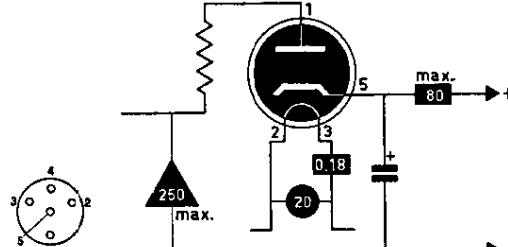
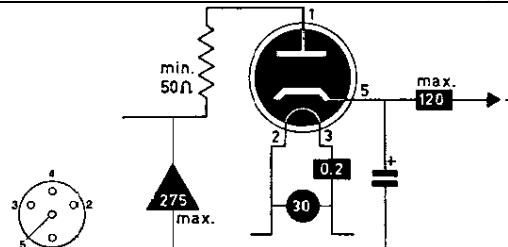


UFM11 pi	UFM11 $P = 0.2 \text{ M}\Omega$ $V = 0 - 11$
UL12 P	
UL2 P	
UL41 P	

UL44 P	S = 7 m A/V $\mu g_2 g_1 = 11$ Wa = max. 5W	
UL84 P	S = 10 m A/V $V_{g1} = -12.3V$ $R_i = 23k$ Wa = max. 12W	
	S = 9 m A/V $V_{g1} = -6.7V$ $R_i = 20k$ Wa = max. 12W	
UM34 tii		
UM35 tii		
UM4 tii		
UM80 ti		

UM84 ti	
UM85 ti	
UQ80 e	
UY11 r	
UY1N r	
UY2 r	
UY21 r	

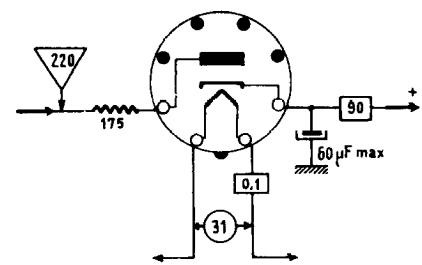
UY3	
UY31	
UY4	
UY41	
UY42	
UY82	
UY85	

UY89	
UY92	
V20	
V2018	
V2118	
V30	

V311

r

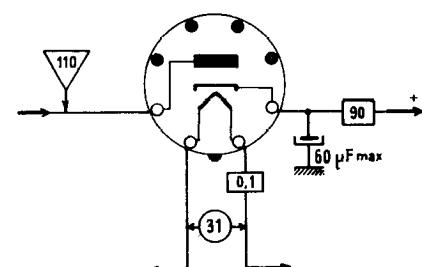
**V311 = UY41
R**



V312

r

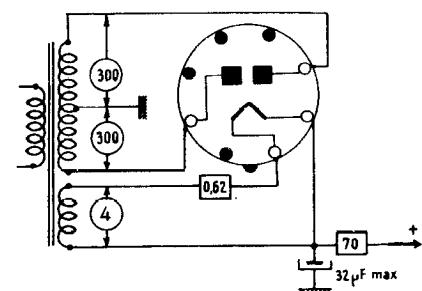
**V312 = UY42
R**



V41

rr

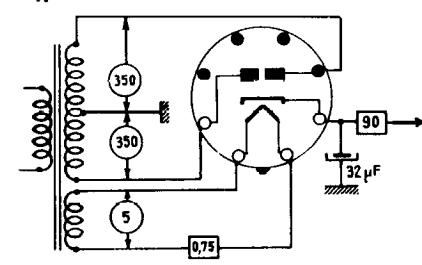
**V41 = AZ41
R**



V51

rr

**V51 = GZ40
R**

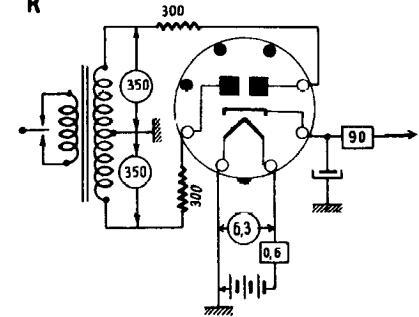


V61

rr

V61 = EZ40

R



V99

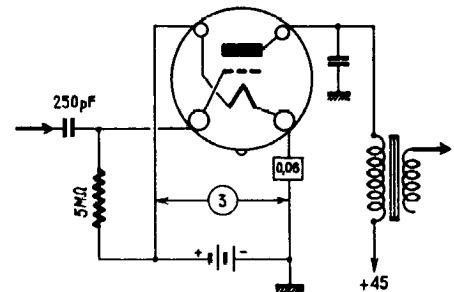
t

V99

D

S = 0.425

P = 15.000



VCH11

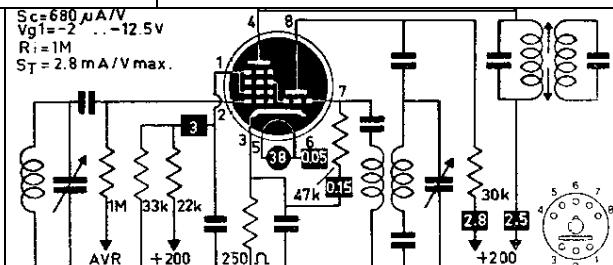
th

$S_C = 680 \mu A/V$

$V_{G1} = -2 \dots -12.5 V$

$R_i = 1 M\Omega$

$S_T = 2.8 \text{ mA/V max.}$



VF14

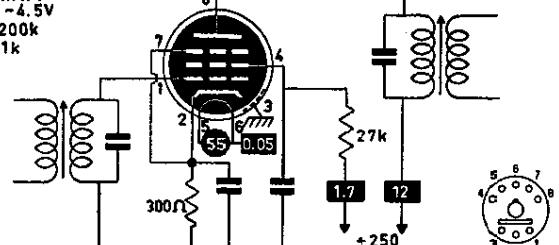
p

$S = 7 \text{ mA/V}$

$V_{G1} = -4.5 V$

$R_i = 200 k\Omega$

Req. 1k

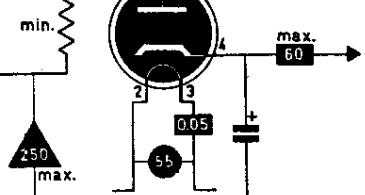


VY1

r

min.

250 max.

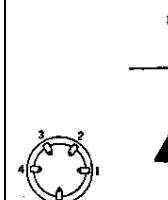


VY2

r

min.

250 max.



VY2N r	
X78 th	
X79 th	
X99 t	
Z77 p	