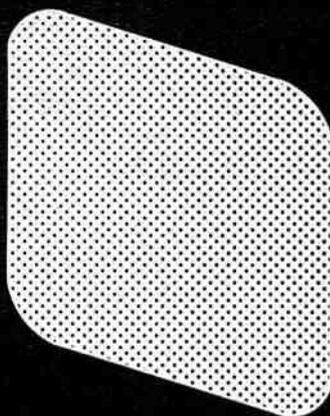
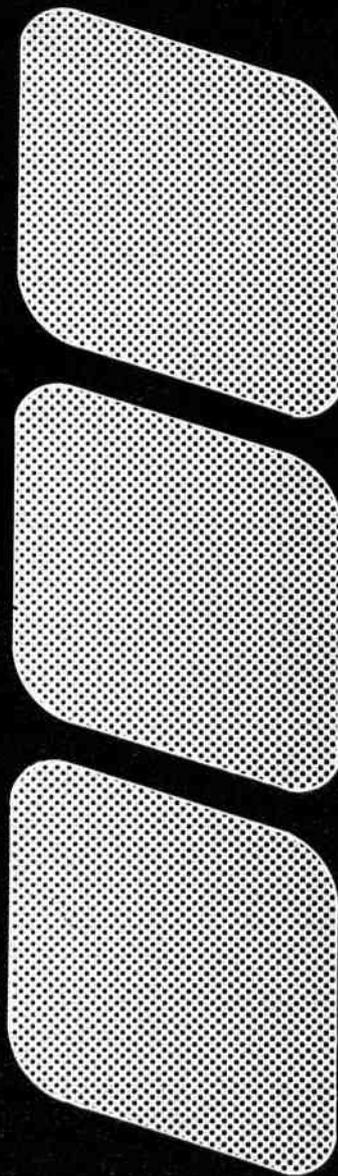


**SCHEMATIC
DIAGRAM**



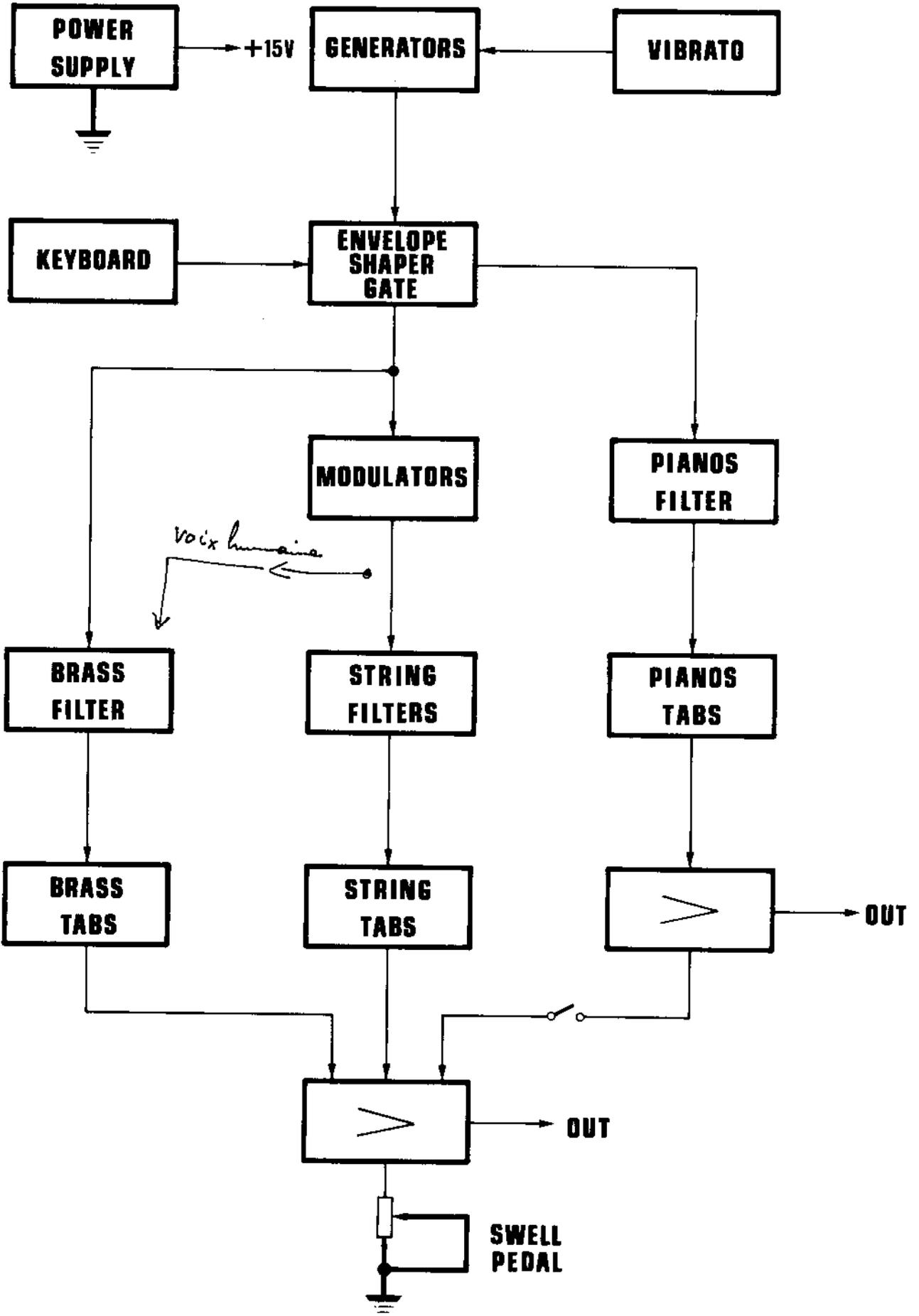
CRUMAR[®]

Musical Instruments

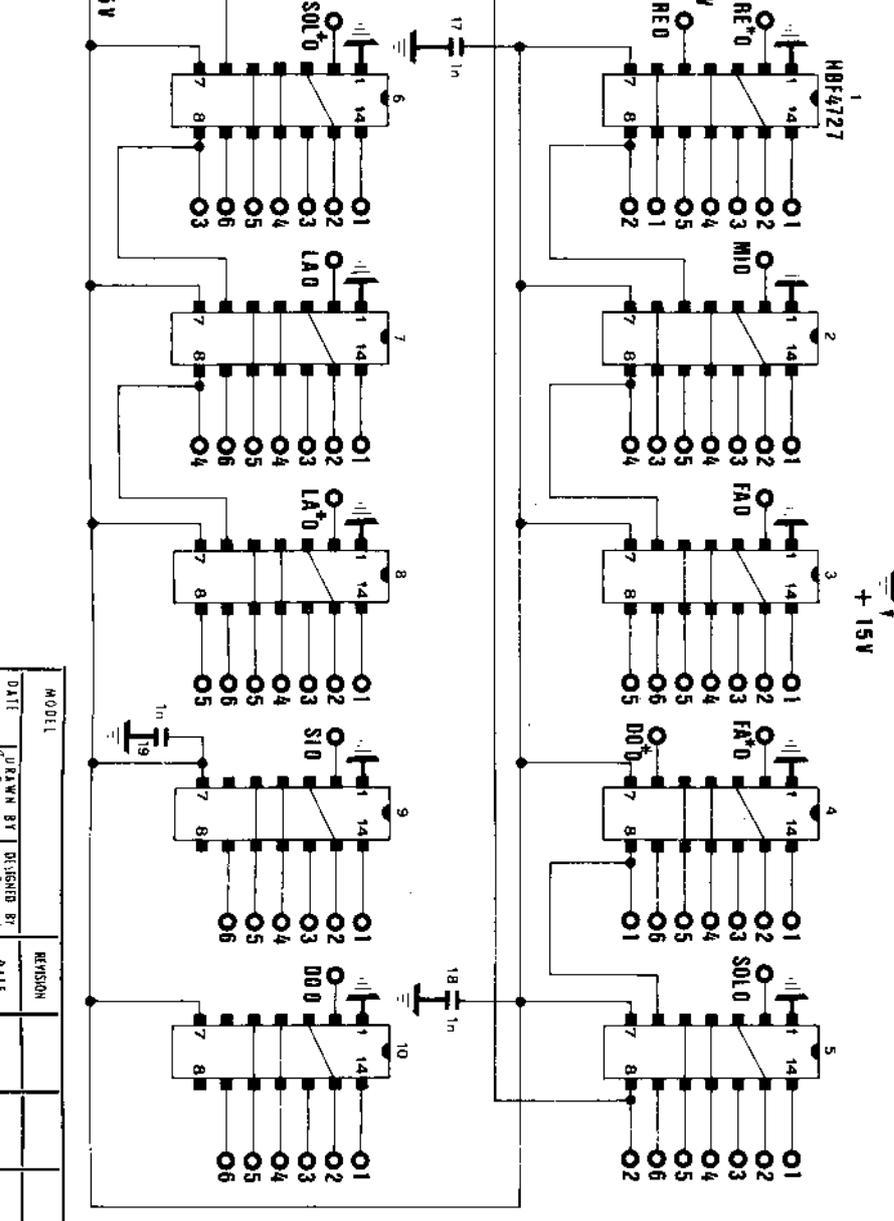
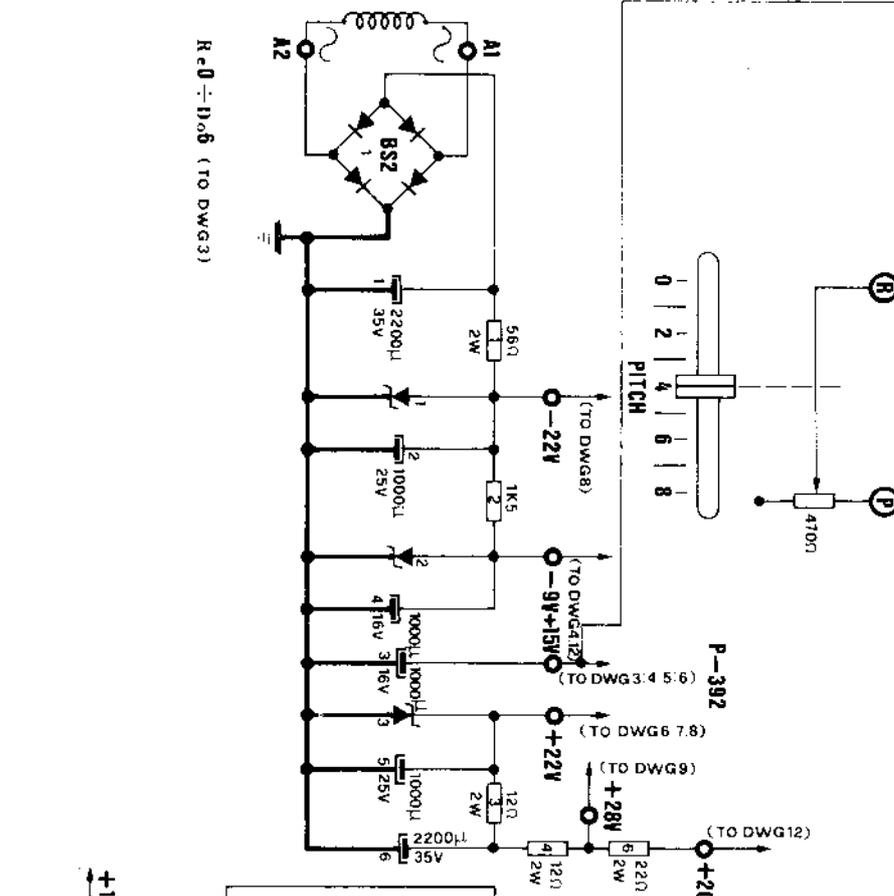
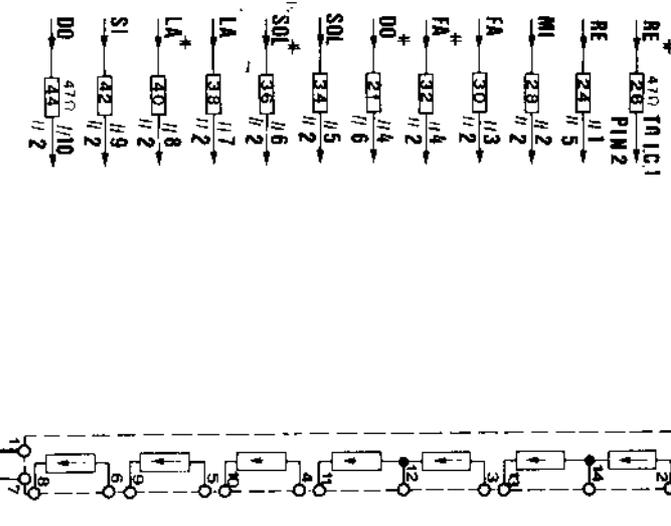
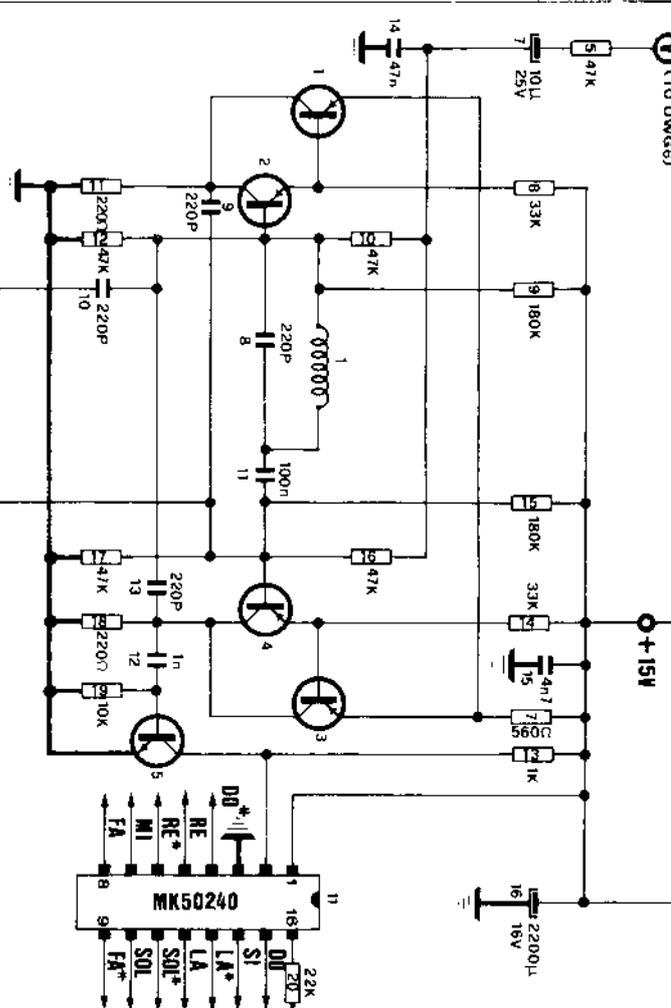


mod.

Multiman - S



MODEL			REVISION		
DATE	DRAWN BY	DESIGNED BY	DATE		
	G. Aselt	R. Brau			

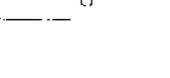
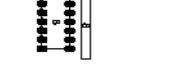
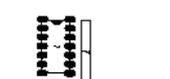
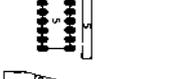
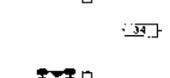
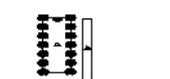
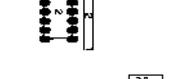
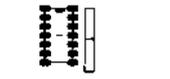
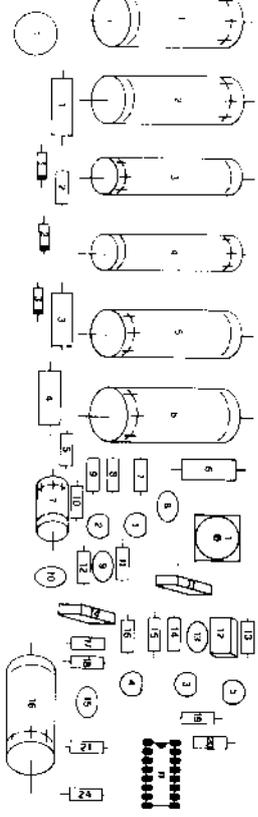


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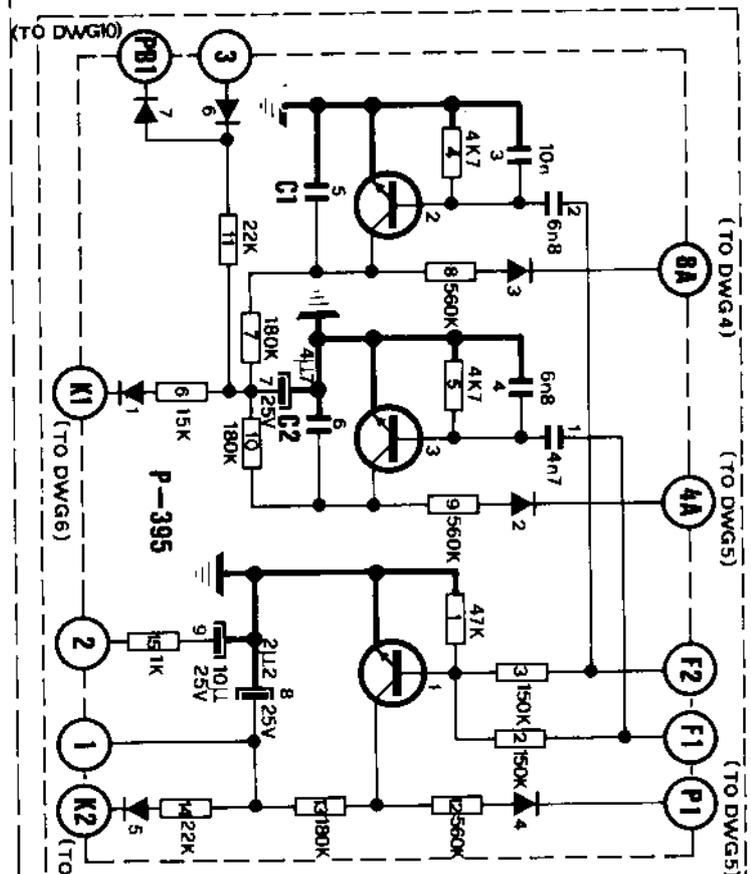
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P-392

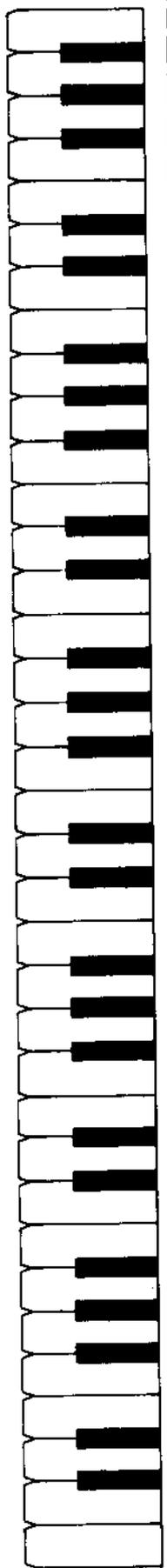
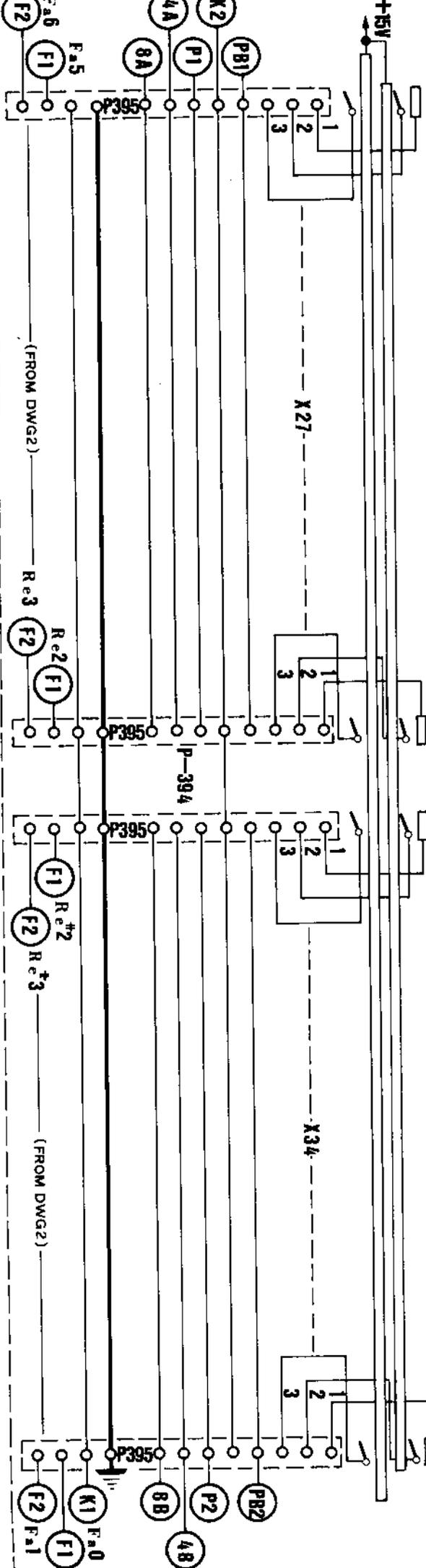
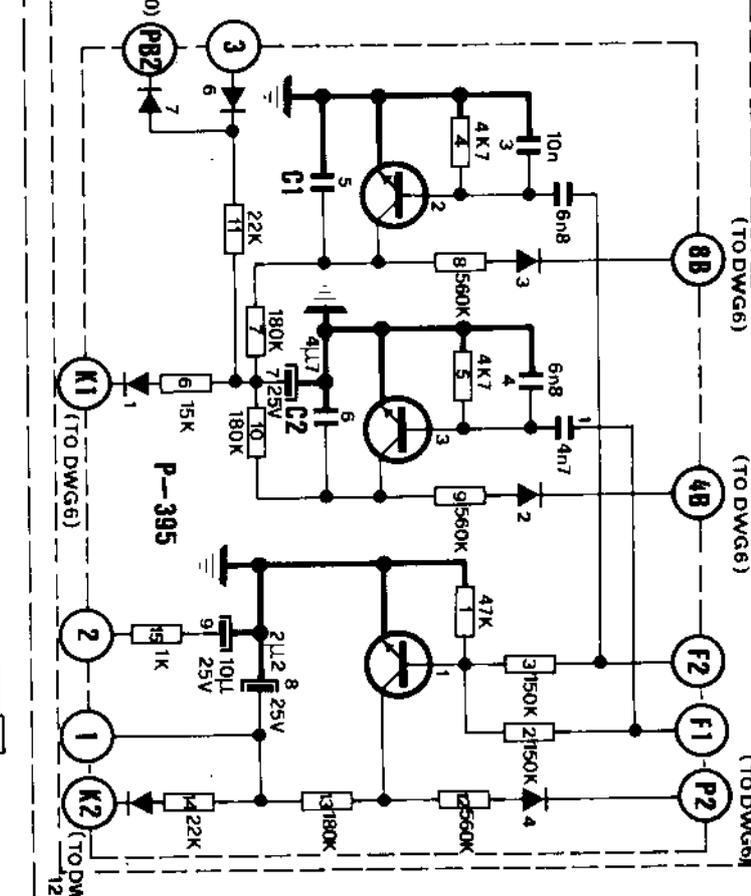
MODEL	REVISION
DATE	DATE
DRAWN BY	DESIGNED BY
CHECKED BY	DATE



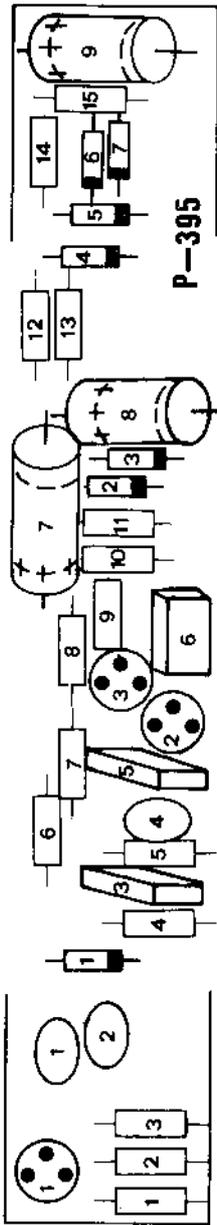
P-382

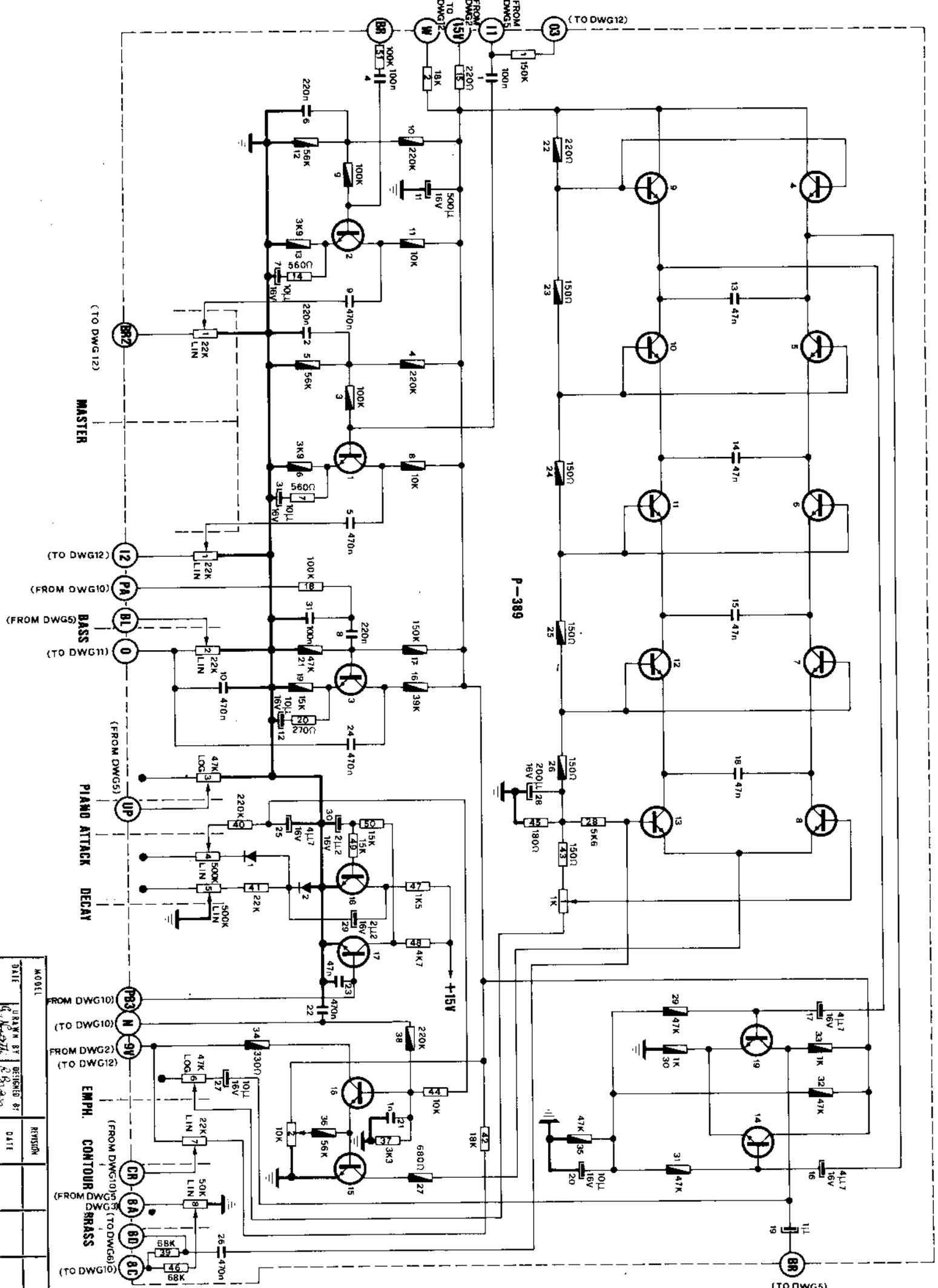


C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
3	100	39	18	4.7	3	3	100	33	15	3.9	3
3	100	27	12	3.3	3	3	82	22	10	2.7	3
3	68	18	8.2	2.2	3	3	56	15	6.8	1.8	3
3	47	12	5.6	1.5	3	3	39	10	4.7	1.2	3
3	33	8.2	3.9	1	3	3	27	6.8	3.3	820P	1
3	22	5.6									

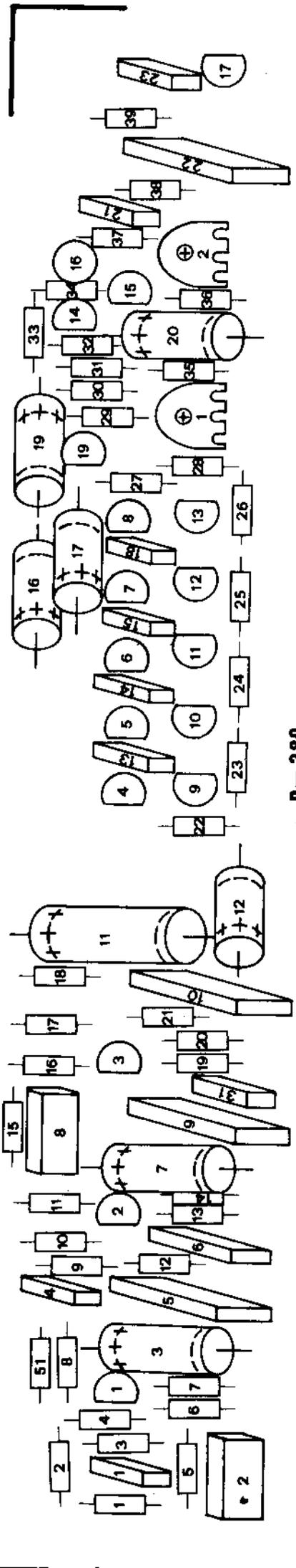


MODEL _____
 DATE _____
 DRAWN BY _____
 DESIGNED BY _____
 DWG-3

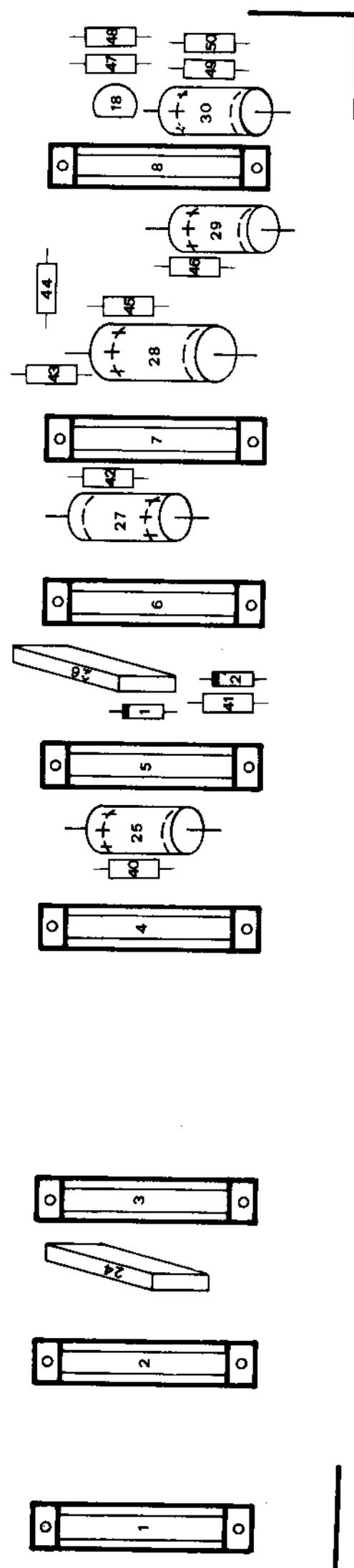


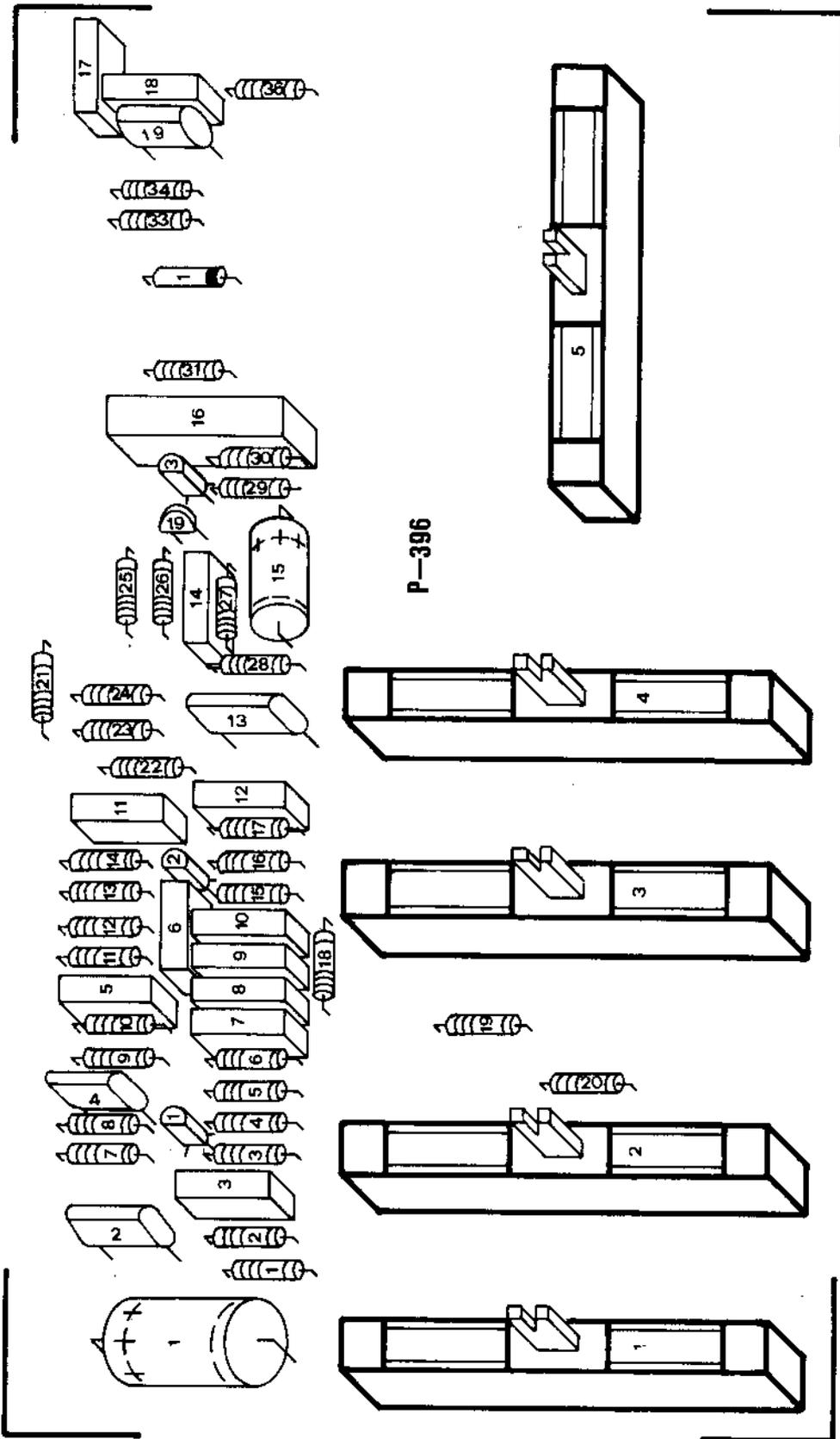


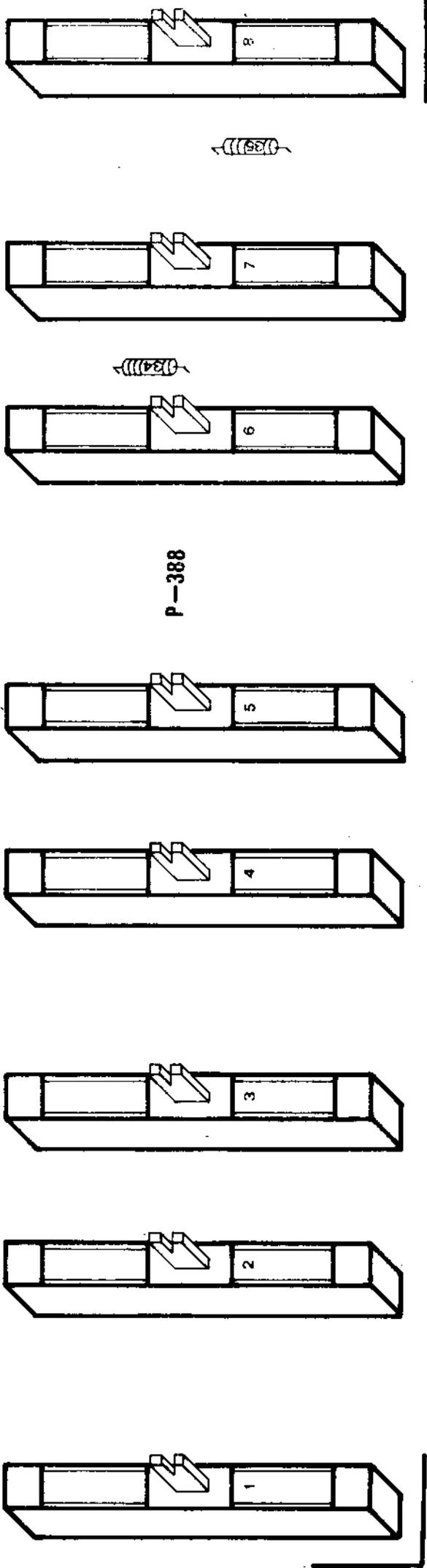
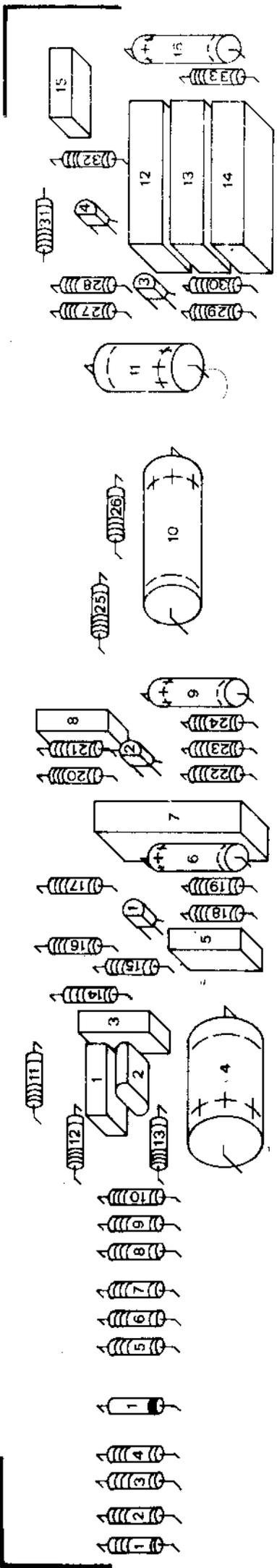
MODEL	REVISION
DATE	DATE
DRAWN BY	DESIGNED BY
DATE	DATE



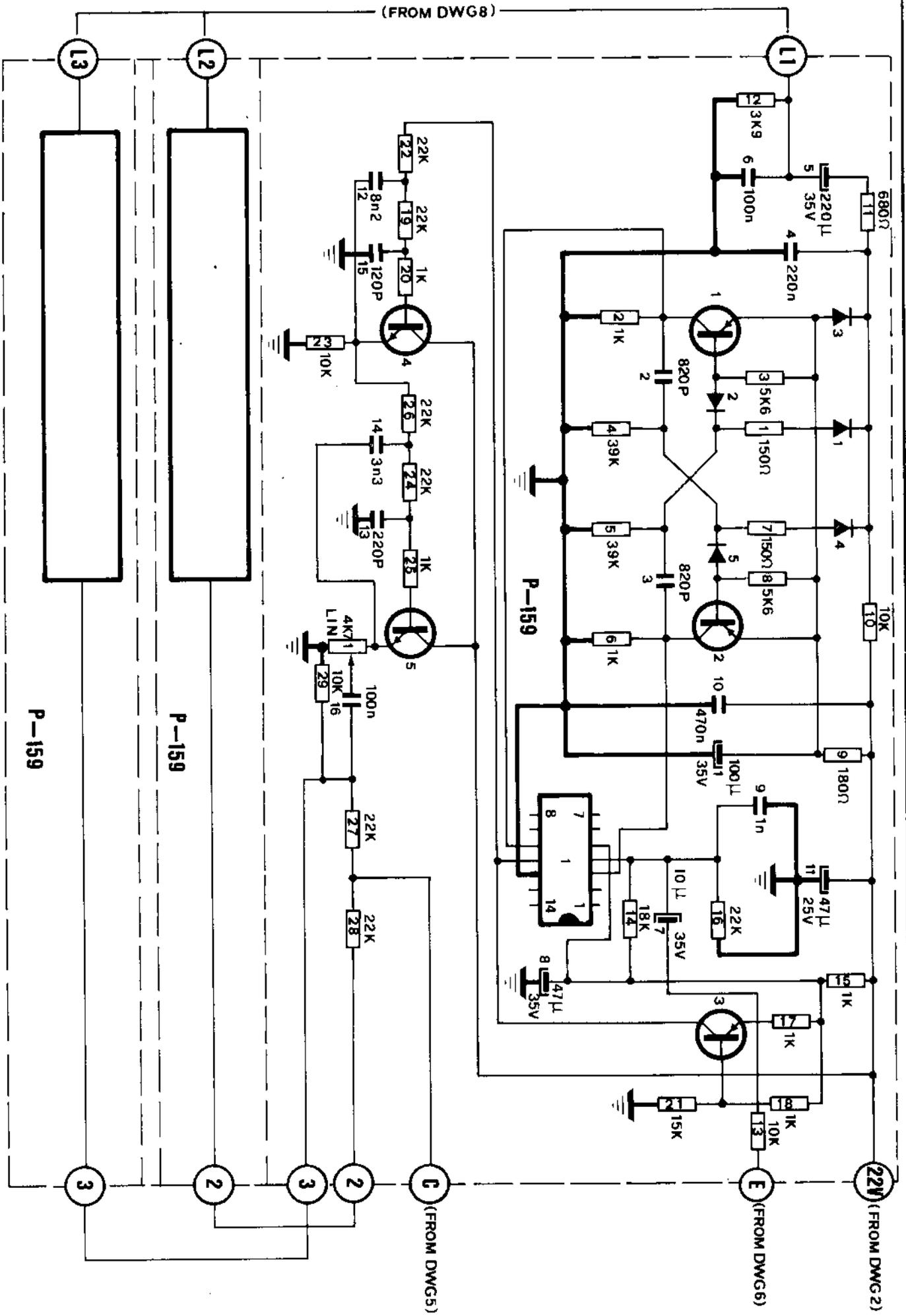
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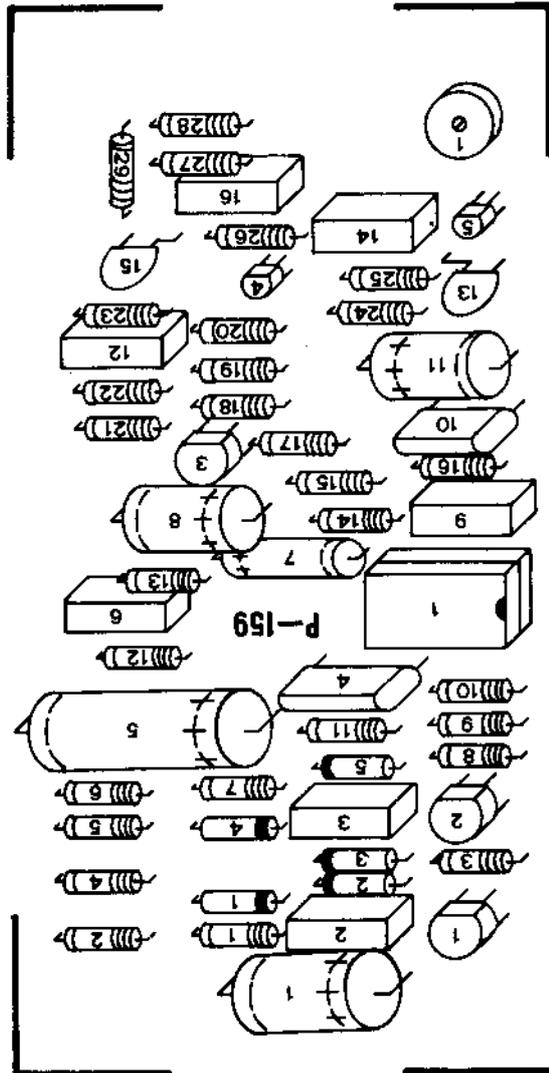


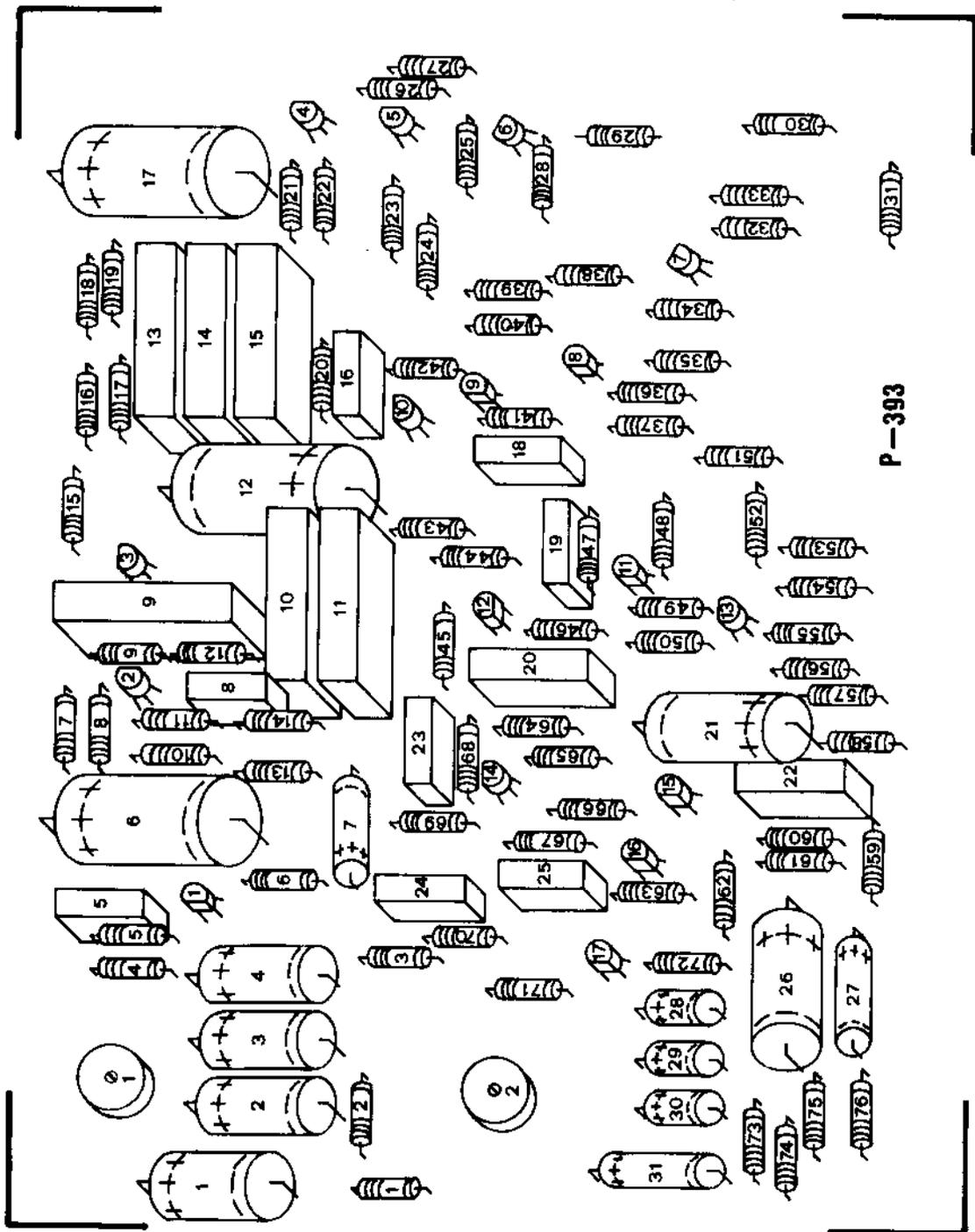
P-388



MODEL	REVISION
DATE	DATE
DRAWN BY	DESIGNED BY
<i>G. Ospeda</i>	<i>R. Bran</i>

DWG 67





P-393

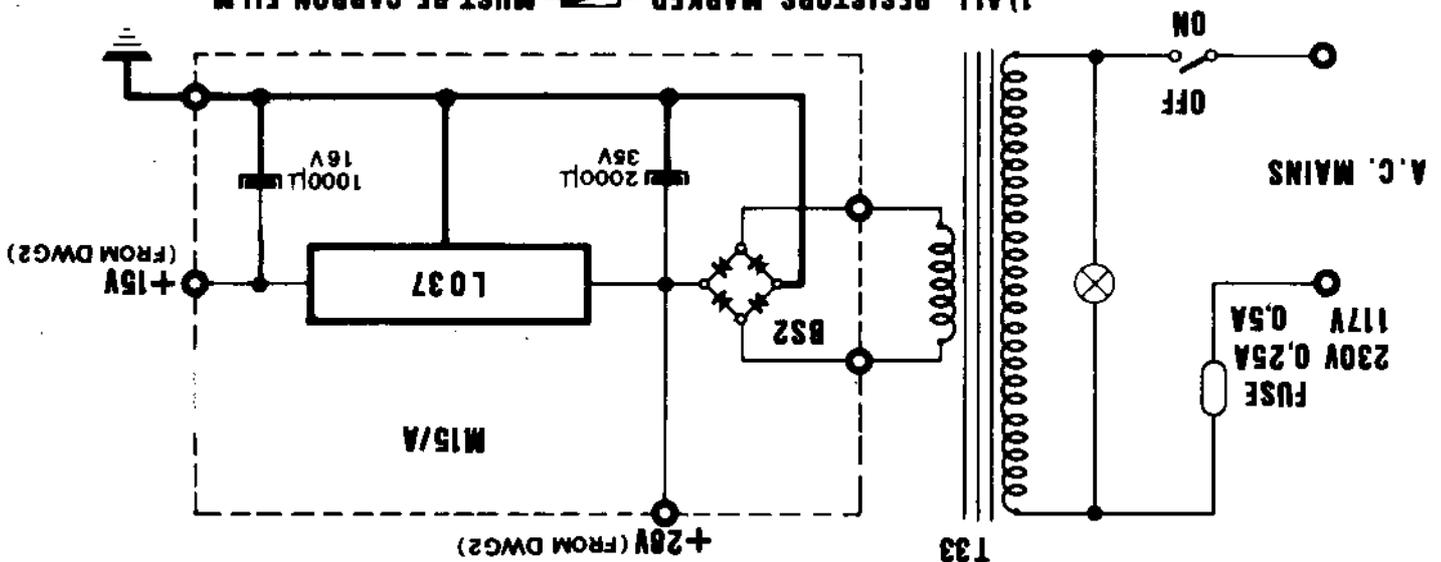
MODEL	DATE	DESIGNED BY	DATE
		<i>E. J. Brown</i>	
REVISION	DATE		

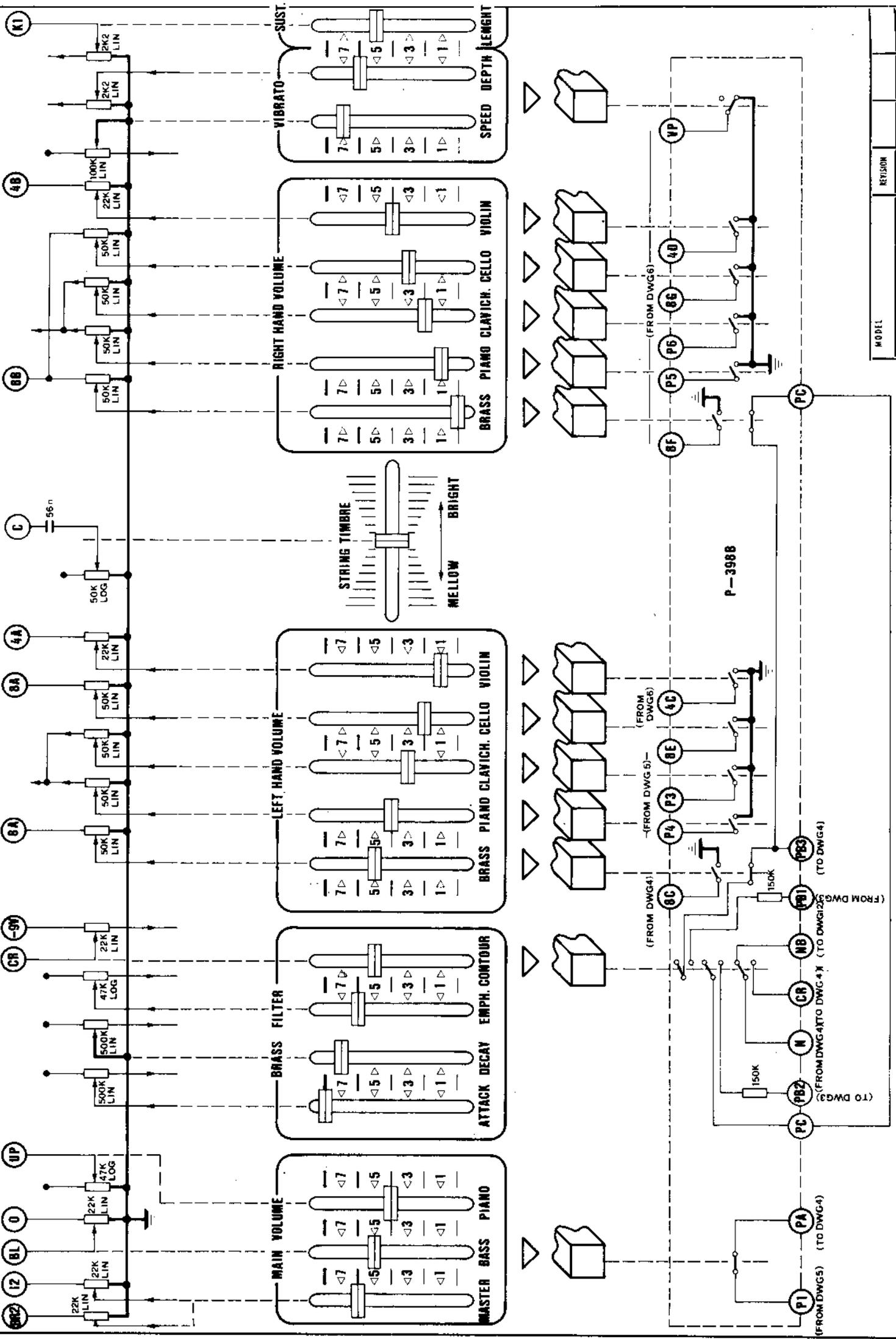
BOARD	REFERENCE	TYPE
P-392	TR1+TR4	BC204 MISTRAL
	TR5	BC209B MISTRAL
	IC1+IC10	SAJ110 I. T. T.
	IC11	MK50240 MOSTEK
	DZ1	I222 I. T. T.
	DZ2	ZPY81 I. T. T.
	DZ3	I222
P-395	TR1+TR3	SFT714 MISTRAL
	D1+D7	BA130 FAIRCHILD
P-389	TR1+TR3	BC550B PHILIPS
	TR4+TR13	BC209C
	TR14	BC550B
	TR15	BC209B
	TR16	BC204
	TR17+TR18	BC209B
	TR19	BC550B
	D1+D2	BA130
P-396	TR1+TR3	BC550B
	D1	BA130
P-388	TR1+TR2	BC209C
	TR3+TR4	BC209B
	D1	BA130
P-159	TR1+TR3	BC204
	D1	BA130
	TR4+TR5	BC209B
	D1+D5	FDH900 FAIRCHILD
P-393	TR1	BC209C
	TR2+TR16	BC209B
	TR17	BC209C

TABLE OF EQUIVALENTS

NOTES: 1) ALL RESISTORS MARKED  MUST BE CARBON FILM

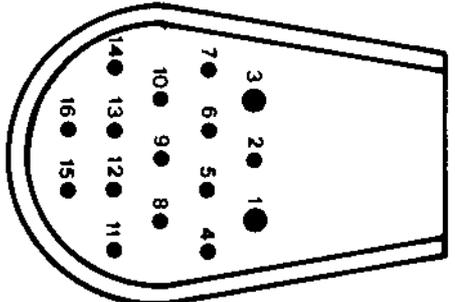
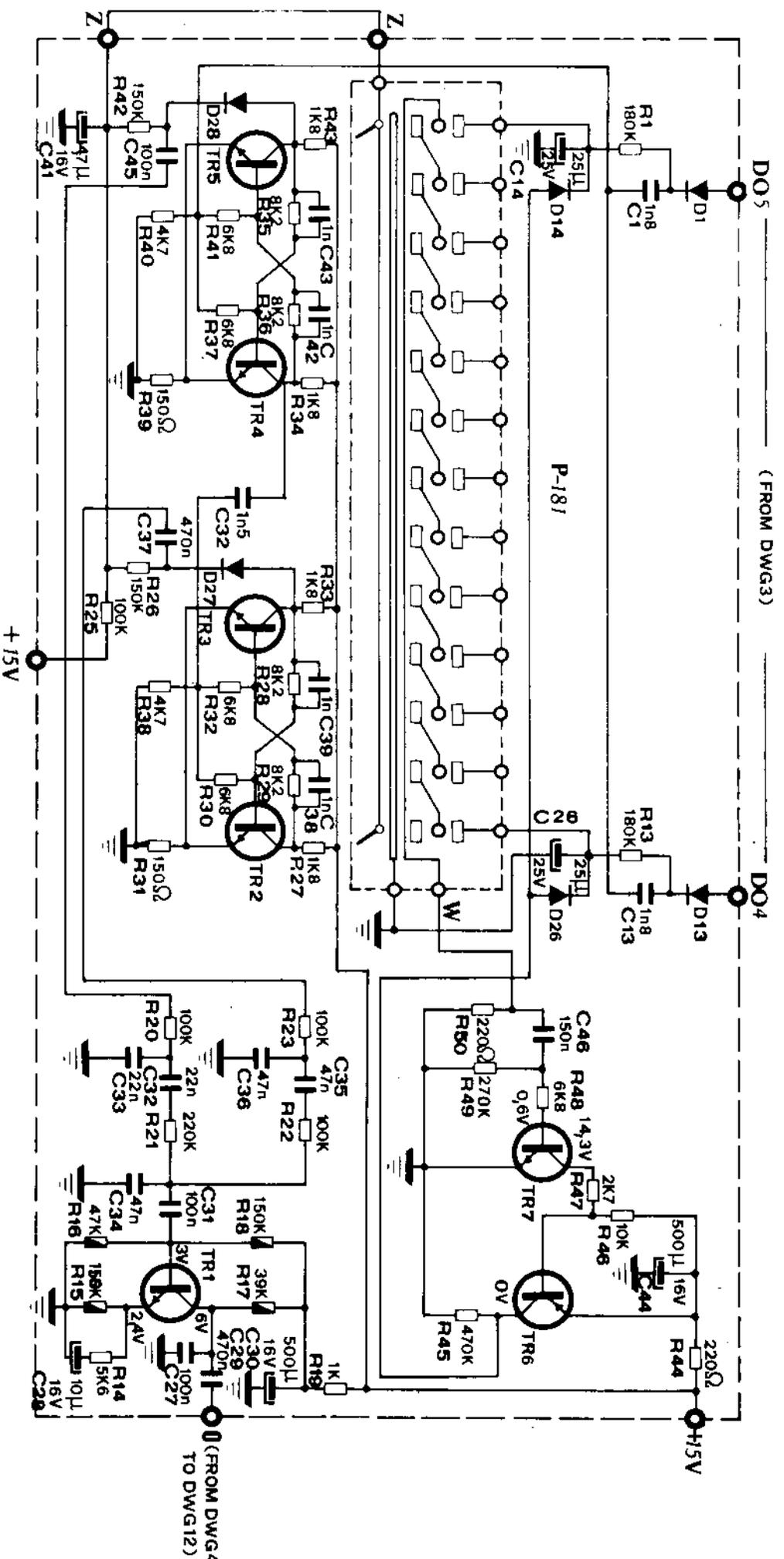
2) ALL VOLTAGES ARE MEASURED WITH VOLTMETER 4000Ω/V





MODEL	REVISION

(FROM DWG3)

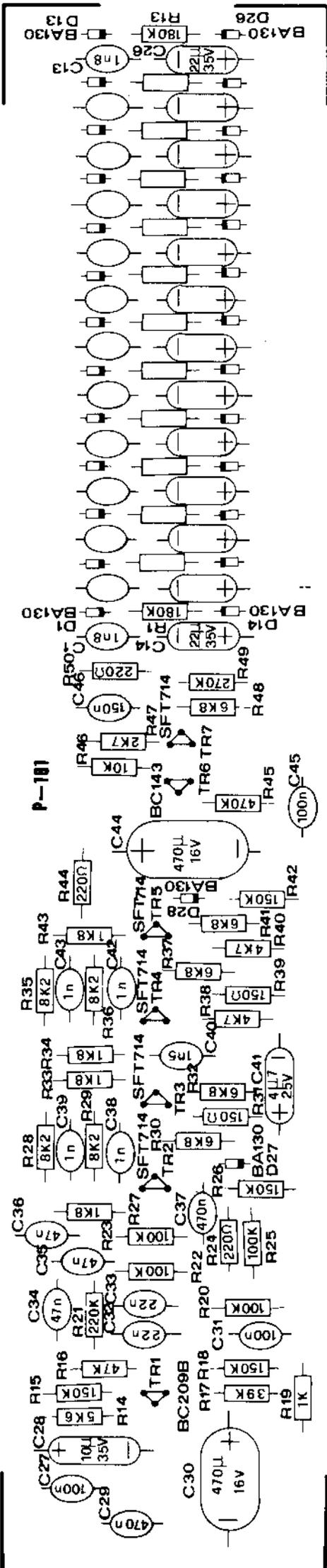


PEDAL BOARD SOCKET

PIN	NOTE	PIN	NOTE
1	FA#4	9	FA#4
2	O.P181	10	FA#4
3	+15V	11	SOL#4
4	DO#4	12	SOL#4
5	DO#4	13	LA#4
6	RE#4	14	LA#4
7	RE#4	15	SI#4
8	MI#4	16	DO#4

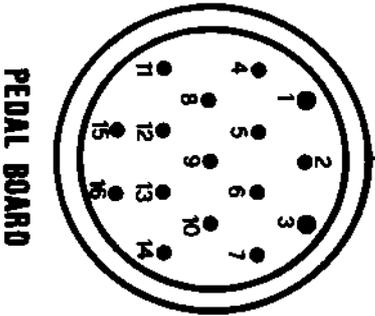
BASS PEDALS

MODEL	REVISION
DWG 11	
DATE	DATE
DRAWN BY	DESIGNED BY
K. Pfeiffer	R. Brown

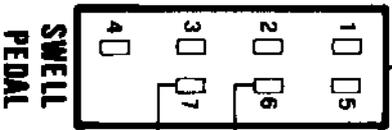


PIN	NOTE	PIN	NOTE
1		9	F _A 4
2	0-P181	10	F _A 4
3	+15V	11	Sol 4
4	D _o 5	12	Sol [†] 4
5	D _o 4	13	L _A 4
6	R _e 4	14	L _A 4
7	R _e 4	15	Si 4
8	Mi 4	16	D _o 4

PIN	REFERENCE
1	+20V FROM DWG 2
2	K2 FROM DWG 3
3	
4	
5	
6	CA TO STEREO
7	C0 TO STEREO



PEDAL BOARD



SWELL PEDAL

PIN	REFERENCE
1	
2	NB FROM DWG 10
3	-9V FROM DWG 2
4	W FROM DWG 4
5	



PEDAL FILTER

PIN	REFERENCE
1	
2	03 FROM DWG 4
3	02 FROM DWG 5



PIANOS

PIN	REFERENCE
1	
2	C0 FROM SWELL P
3	CA FROM SWELL P
3	BR2 FROM DWG 4



STEREO

PIN	REFERENCE
1	
2	C0 FROM STEREO
2	I2 FROM DWG 4



MONO

MODEL		REVISION	
DATE	DRAWN BY	DATE	
	<i>G. S. P. K.</i>		
	DESIGNED BY		
	<i>R. Brown</i>		