

SCHHEMATIC DIAGRAM



**FARFISA**

**Electronic Organs**

**Matador LR - LCR**

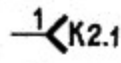
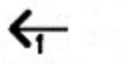
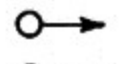
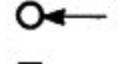




E. D. P. 1111272

**1st EDITION**

NOVEMBER '78

## LEGENDA

-  FEMALE CONNECTOR SYMBOL (es. K2. 1)
-  PLUG IN CONNECTOR SYMBOL
-  OUTPUT SIGNAL (TO DWG... ) or (TO PA-...)
-  INPUT SIGNAL (FROM DWG...) or (FROM PA-...)
-  TEST POINT (TP...)
-  CONNECTING POINT (ON p.c.b.)

All resistors 1/4 unless otherwise indicated

All tabswitches shown in OFF position

All keyswitches shown in OFF position

See part list for component part numbers

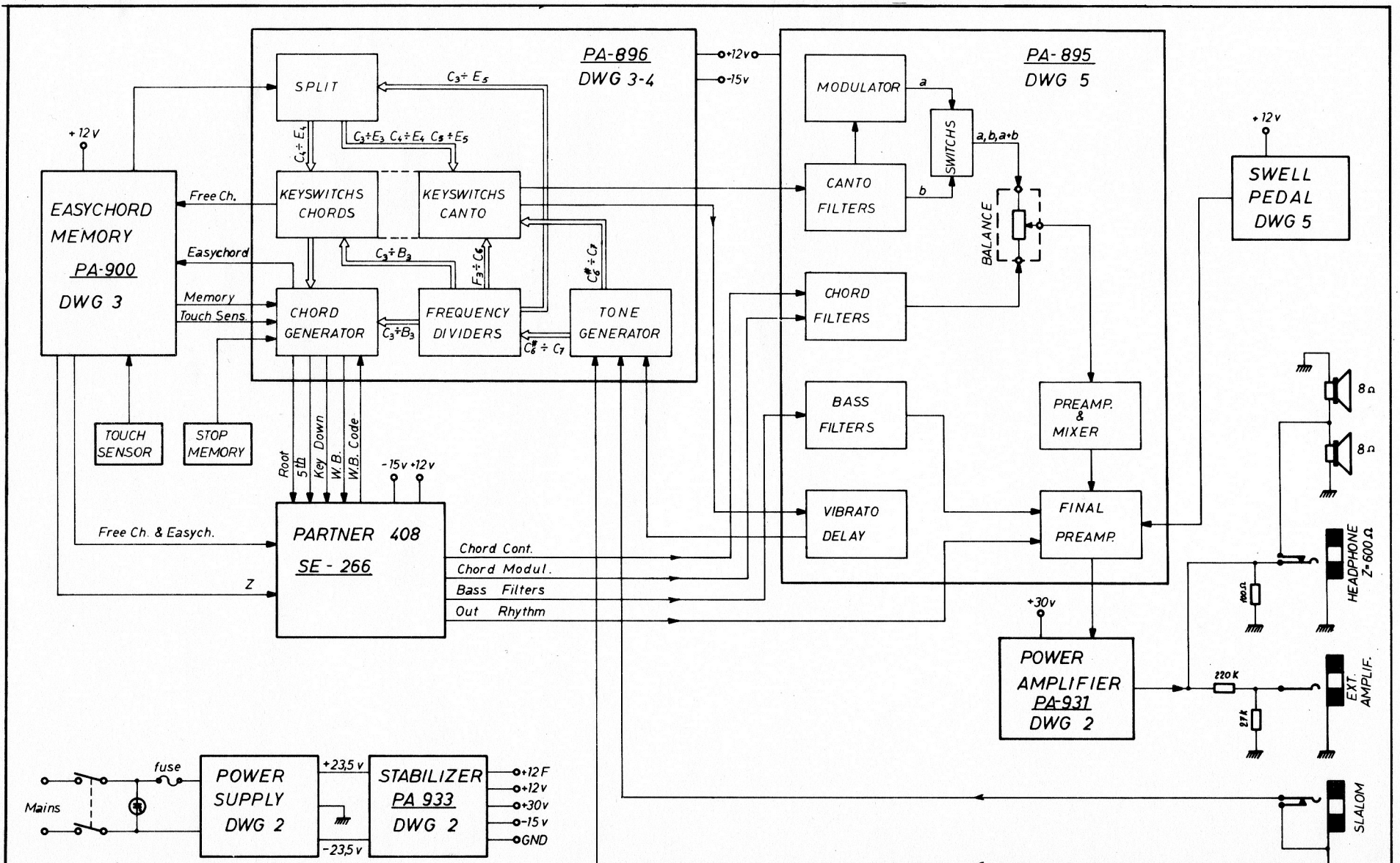
All D.C. voltages measured to ground with a voltmeter 20.000  $\Omega/V$

**IMPORTANT :** IN ANY CORRESPONDENCE CONCERNING THIS INSTRUMENT ALWAYS INCLUDE MODEL AND SERIAL NUMBERS!

**PARTS ORDERING** - When ordering parts be sure to include the following information:

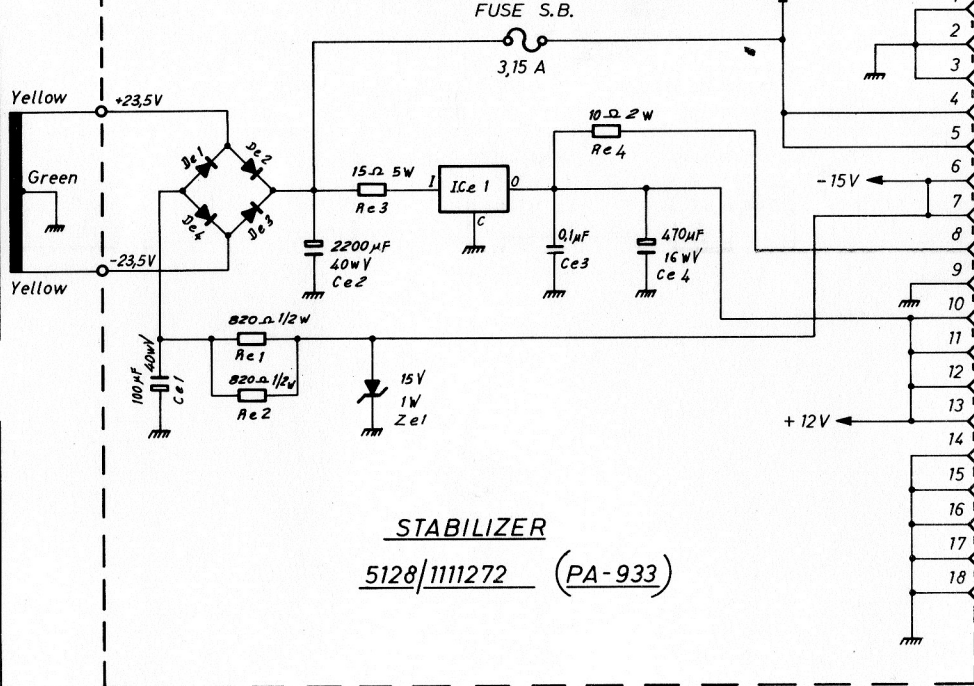
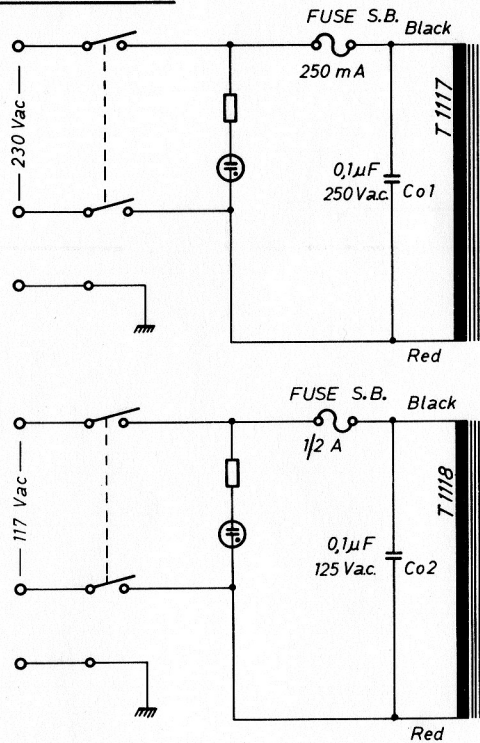
1. Model and serial Number of instrument.
2. Part Code.
3. A description of the Part.
4. Specify how you want the part shipped.





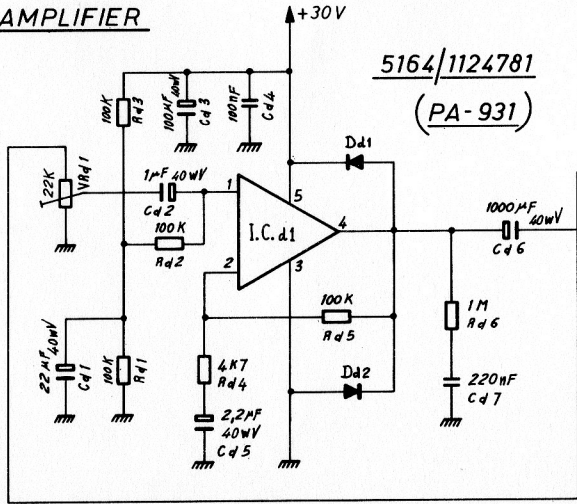
DRAWN BY K. K.	MOD: MATADOR LR/LCR	SERIAL N°		
DATE 30-10-78	CODE SE-277	REVISION		
CHECKED BY K. K.	DWG...1...OF...5...	DATE		

**POWER SUPPLY**

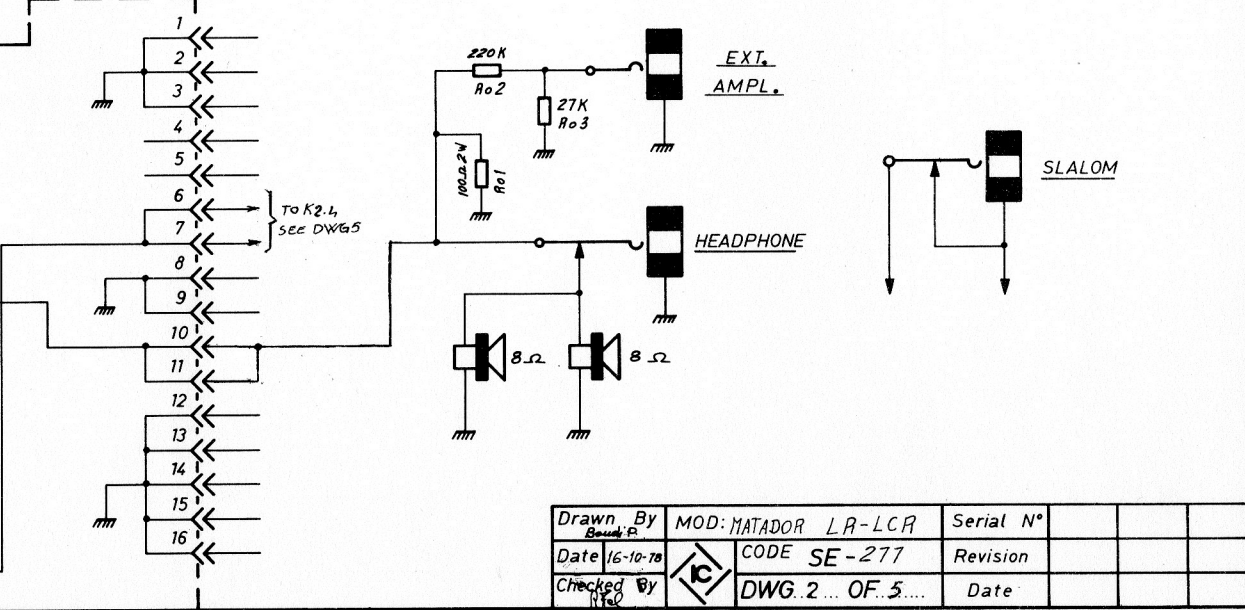


**STABILIZER**  
5128/1111272 (PA-933)

**AMPLIFIER**



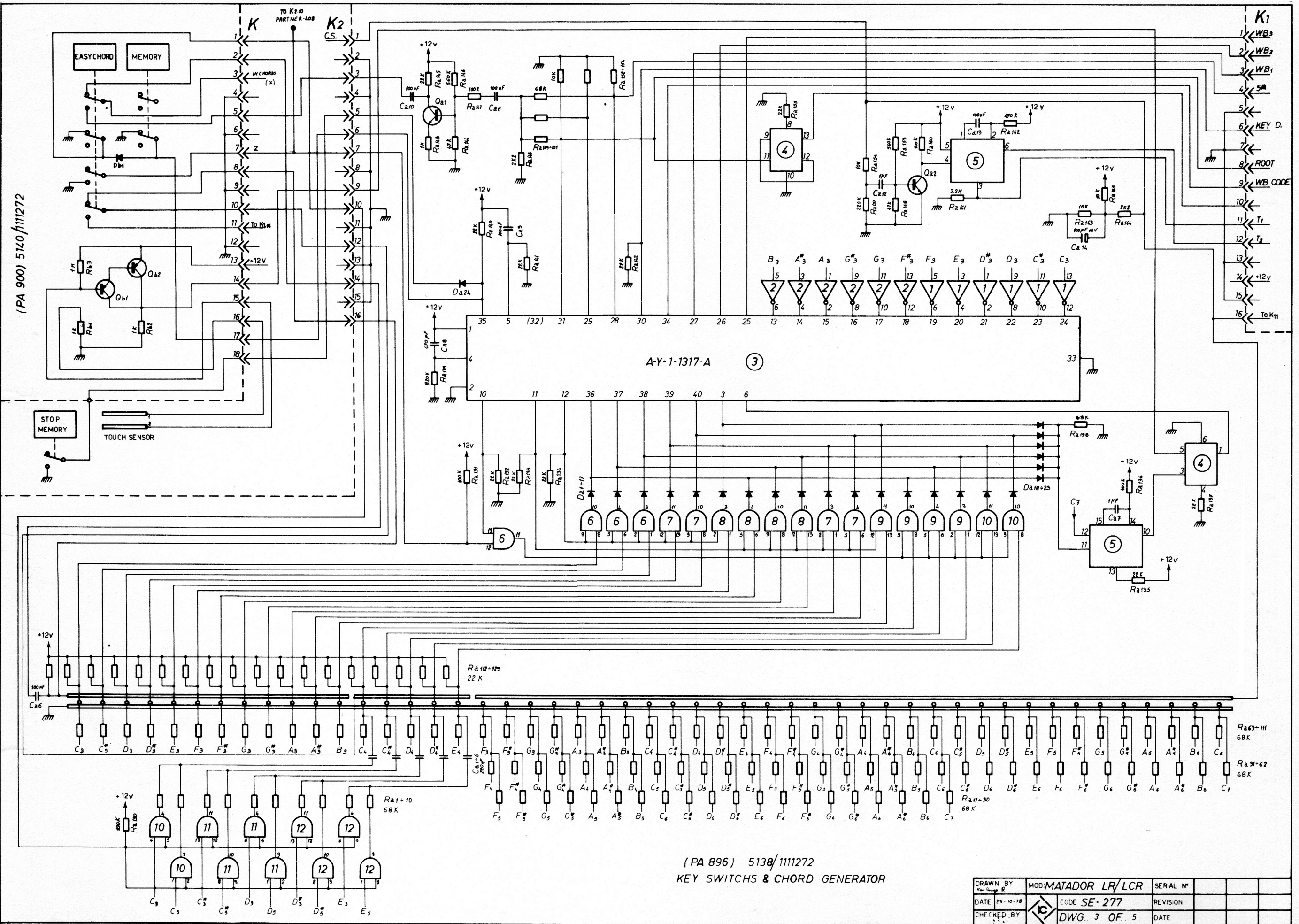
5164/1124781  
(PA-931)



Drawn By Boud P.	MOD: MATADOR LR-LCR	Serial N°		
Date 16-10-70	CODE SE-277	Revision		
Checked By R. P.	DWG. 2... OF 5...	Date		



(PA 900) 5140/111272

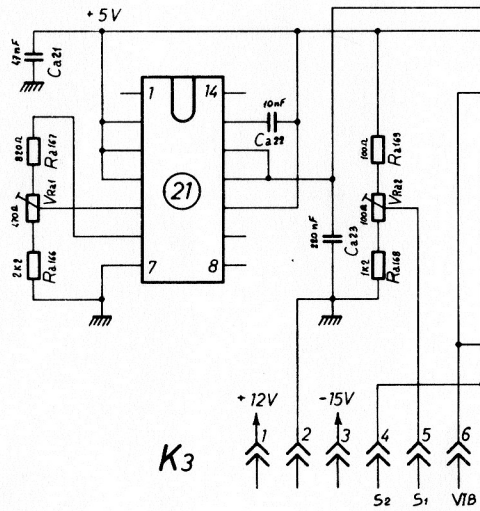


(PA 896) 5138/111272  
KEY SWITCHES & CHORD GENERATOR

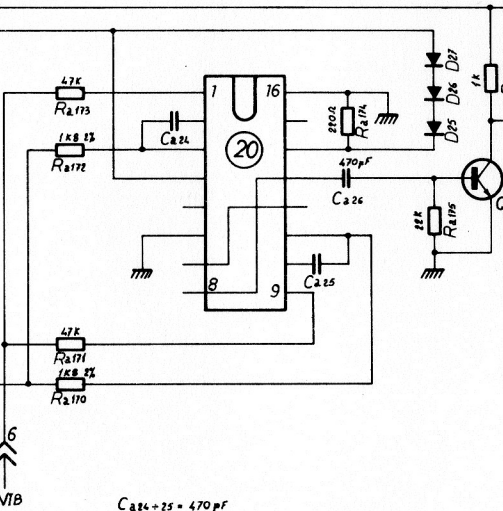
DRAWN BY Tom Sawyer R	MOD: MATADOR LR/LCR	SERIAL N°	
DATE 23-10-78	CODE SE-277	REVISION	
CHECKED BY	DWG. 3 OF 5	DATE	



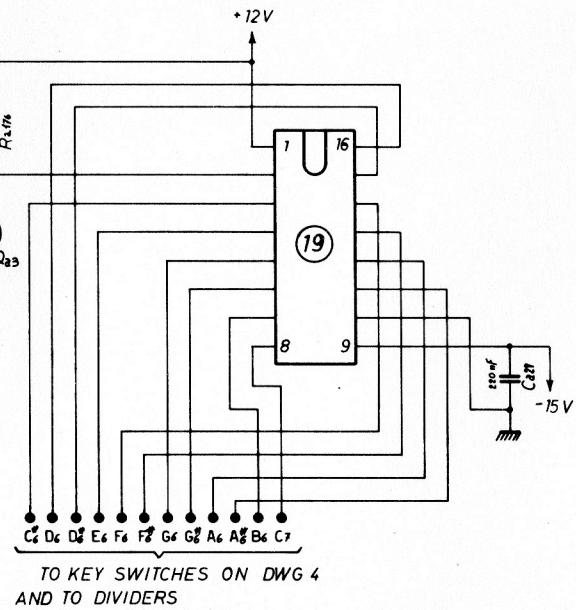
VOLTAGE REGULATOR



OSCILLATOR

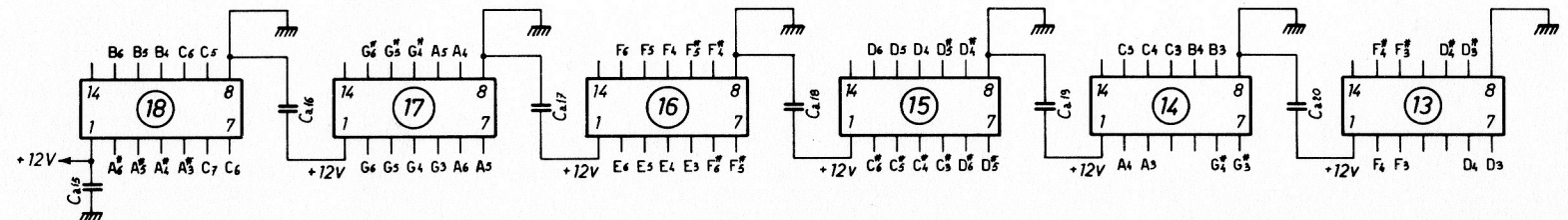


STONE GENERATOR



Note	Frequency
C <sub>6</sub> <sup>#</sup>	1108 Hz
D <sub>6</sub>	1174 Hz
D <sub>6</sub> <sup>#</sup>	1244 Hz
E <sub>6</sub>	1318 Hz
F <sub>6</sub>	1396 Hz
F <sub>6</sub> <sup>#</sup>	1480 Hz
G <sub>6</sub>	1568 Hz
G <sub>6</sub> <sup>#</sup>	1661 Hz
A <sub>6</sub>	1760 Hz
A <sub>6</sub> <sup>#</sup>	1864 Hz
B <sub>6</sub>	1975 Hz
C <sub>7</sub>	2093 Hz

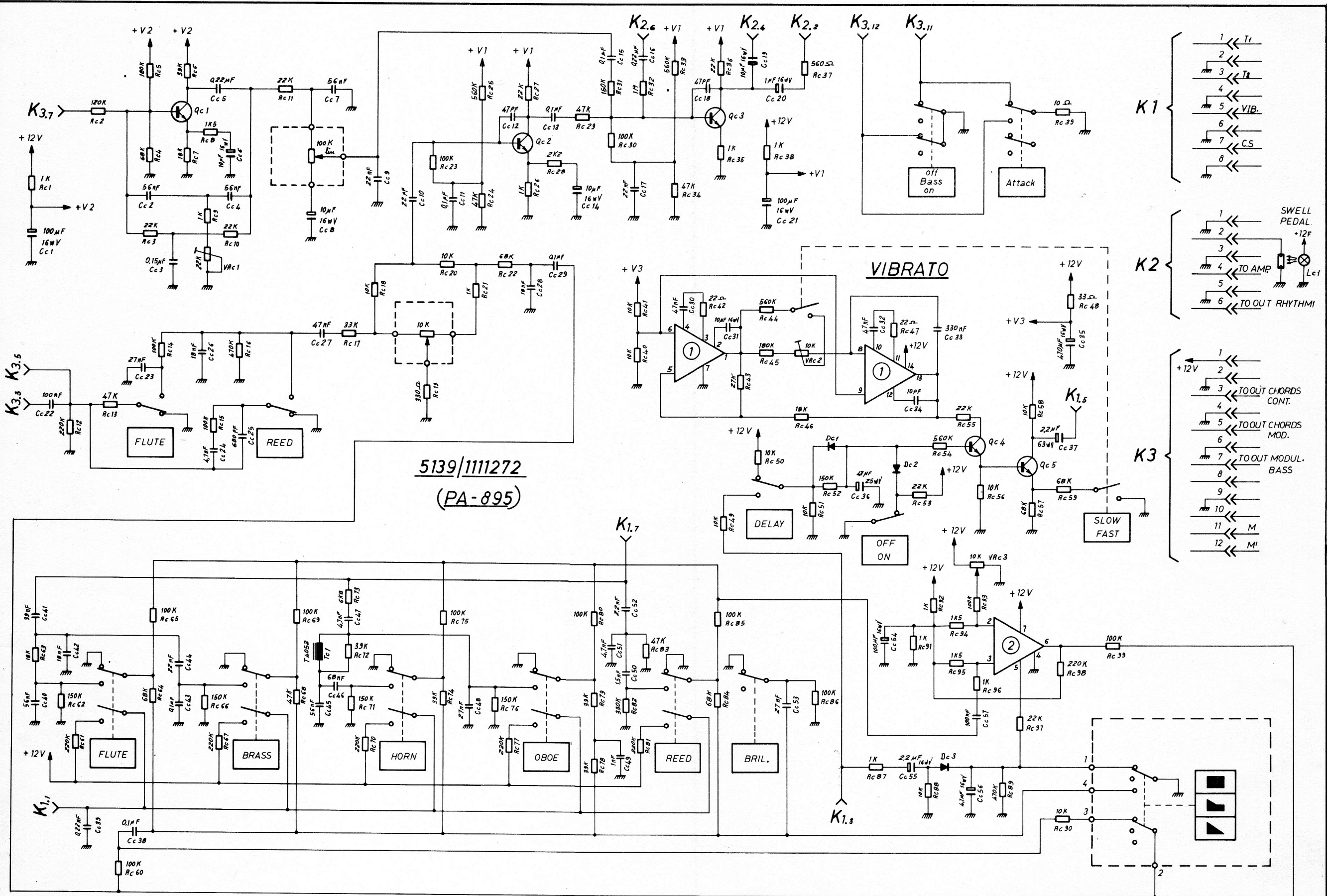
FREQUENCY DIVIDERS



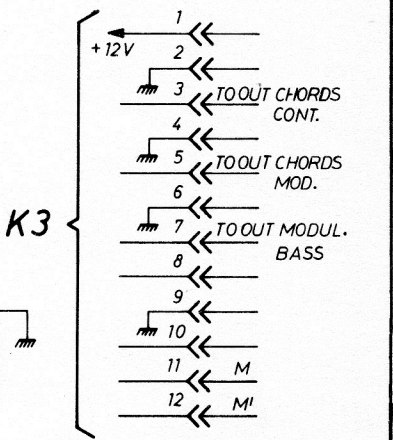
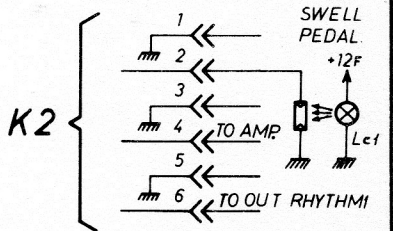
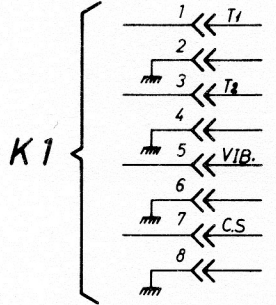
(PA 896) 5138/111272

Drawn by M. J. P.	Mod: MATADOR LR/LCR	Serial n°		
Date: 25-10-78		Code SE 277	Revision	
Checked by M. J. P.		Dwg.....4.....of...5.....	Date	





5139/111272  
(PA-895)



Drawn By Randy P.	MOD: MATADOR-LR/LCR	Serial N°
Date 20-10-78	CODE SE-277	Revision
Checked By Randy P.	DWG 5 OF 5	Date

# MATADOR LR-LCR

ELECTRONIC COMPONENT LIST

1

Schem. Ref.	Circuit	Type	Part Code
	POWER SUPPLY (DWG 2/SE 277)		
	Complete Power Supply - Europe Version		8001/1111272
	Complete Power Supply - America Version		8002/1111272
PA 933	STABILIZER (DWG 2/SE 277)		5128/1111272
ICe1	Voltage Regulator	$\mu$ A 7812 UC	W/1223
Zel	Zener Diode 15V - 1W	- -	B/1419
De1 + De4	Rectifier Diodes	1N 4004 ITT	B/1101
PA 931	POWER AMPLIFIER (DWG 2/SE 277)		5164/1124781
ICd1	Amplifier	TDA-2030 S.G.S.	W/1231
Dd1-Dd2	Diodes	1N 4002 IR	B/1100
PA 900	EASYCHORD BOARD (DWG 3/SE 277)		5140/1111272
Qb1-Qb2	Switches	BC 560-B	B/1500
Db1	Diode	D 525 A	B/1001
PA 896	KEYSWITCH AND CHORD GENERATOR (DWG 3-4/SE 277)		5138/1111272
ICa1-ICa2	Hex Inverter	4069	W/1169
ICa3	Chord Generator	AY-1-1317 A G.I.E.	W/1122
ICa4	Dual D Flip-Flop	4013	W/1157
ICa5	D.R.R.M. Multivibrator	4528	W/1159
ICa6+ ICa12	Quad 2-Input AND Gate	4081	W/1156
ICa13+ ICa18	Frequency Dividers	25002	W/1165
ICa19	Tone Generator	SFF 5009	W/1107
ICa20	Oscillator	SN 29730	W/1009
ICa21	Voltage Regulator	SN 72723 N	W/1209
Qa1-Qa2	Preamplifiers	BC 172-B	W/1404
Qa3	Buffer	BC 208-B-C	W/1404
Da1+ Da27	Diodes	D 525 A	B/1001



# MATADOR LR-LCR

ELECTRONIC COMPONENT LIST

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Schem.Ref.	Circuit	Type	Part Code
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PA 895	FILTER BOARD (DWG 5/SE 277)		5139/1111272
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ICc1	Vibrato Oscillator	IL 11710 S.G.S.	W/1212
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ICc2	Modulator	CA 3080 O.T.A.	W/1227
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Qc1	Bass Filter	BC 238-B	W/1404
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Qc2	Preamplifier	BC 209-B red dot	W/1413
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Qc3	Preamplifier	BC 209-B	W/1407
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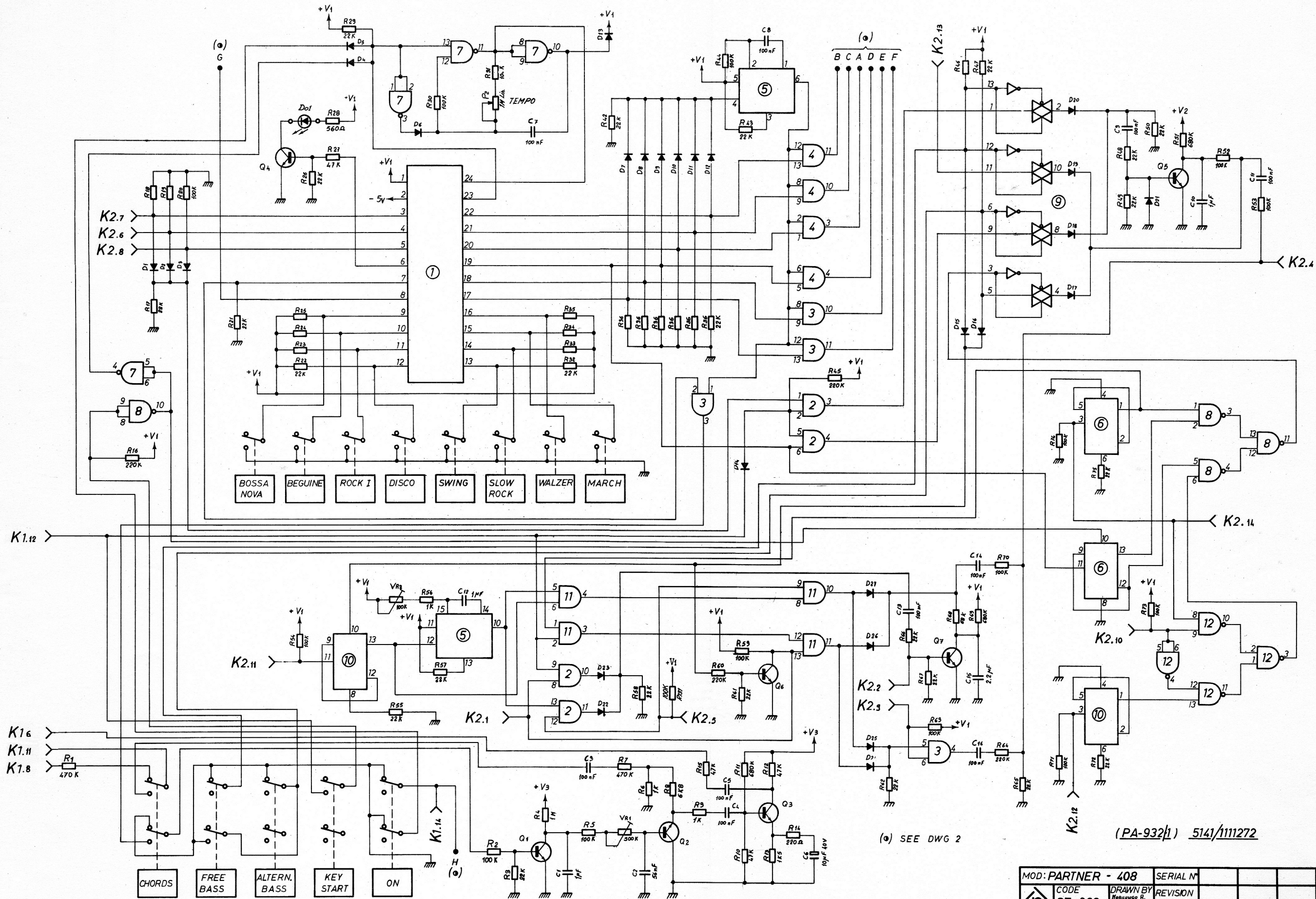
Qc4-Qc5	Delay Buffer	BC 238 B	W/1404
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Dc1+ Dc3	Diodes	D 525 A	B/1001
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SWELL PEDAL (DWG 5/SE 277)

Lc1	Lamp 12V - 3w	--	L/5
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	Photoresistor	--	H/12
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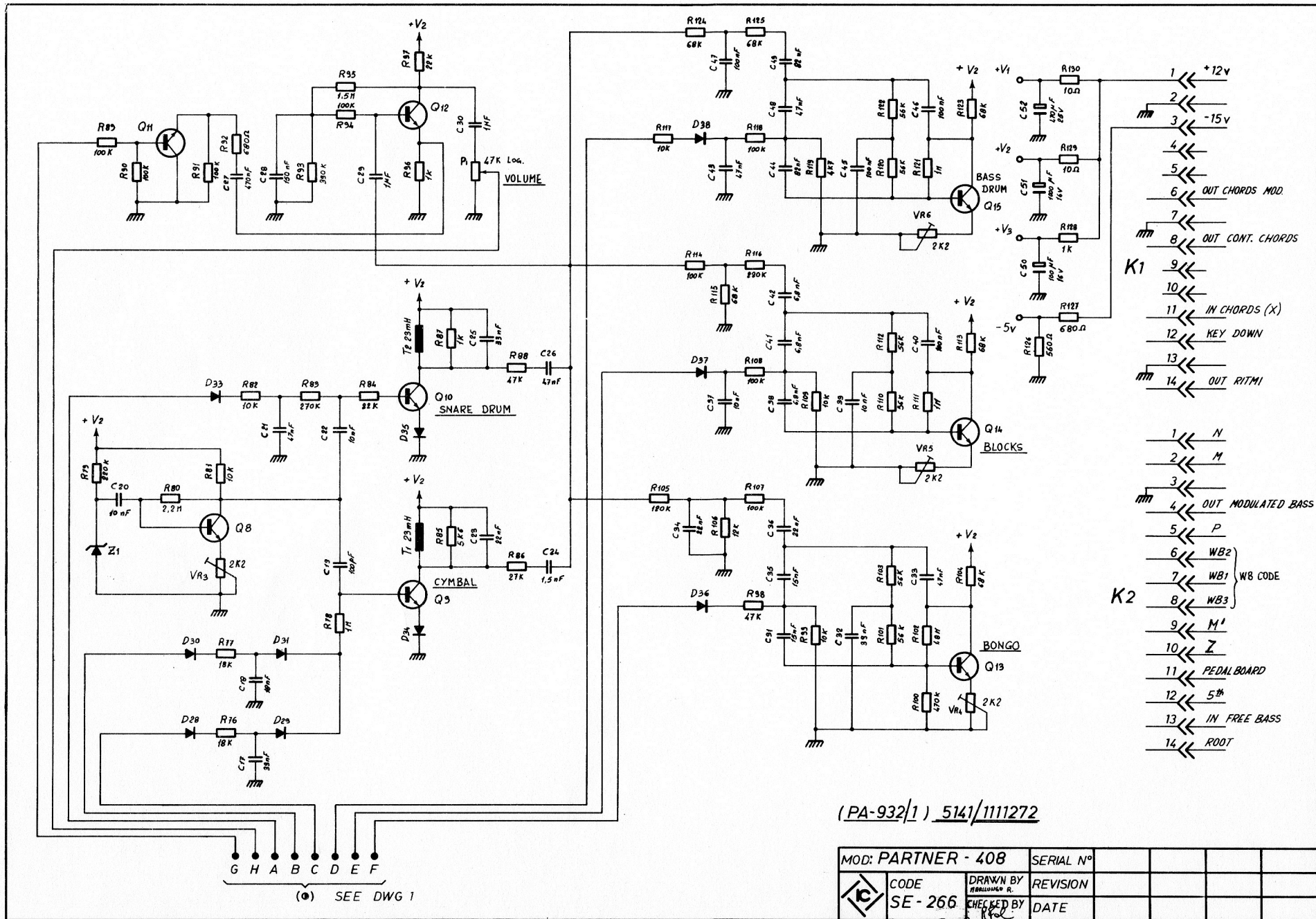


(a) SEE DWG 2

(PA-932/1) 5141/111272

MOD: PARTNER - 408	SERIAL N°		
CODE SE-266	DRAWN BY MARLUNGO R.	REVISION	
	CHECKED BY	DATE	





(PA-932/1) 5141/111272

MOD: PARTNER - 408		SERIAL N°			
	CODE	DRAWN BY	REVISION		
	SE - 266	SE - 266	CHECKED BY	DATE	

# PARTNER 408

## ELECTRONIC COMPONENT LIST

Schem.Ref.	Circuit	Type	Part Code
PA 932/1	RHYTHM BOARD (DWG 1-2/SE 266)		5141/1111272
I.C.1	Rhythm Generation	F 542 S.G.S.	W/1123
I.C.2-3-4-11	Quad 2-Input AND Gate	4081	W/1156
I.C.7-8-12	Quad 2-Input NAND Gate	4011	W/1150
I.C.5	D.R.R.M. Multivibrator	4528	W/1159
I.C.6-10	Dual D Flip-Flop	4013	W/1157
I.C.9	Quad Bilateral Switch	4016	W/1164
Q1-Q6-Q11	Switches	BC 238 B	W/1404
Q2	Chord Modulator	BC 173 C-BC 209 C	W/1426
Q3-Q8	Preamplifier	} BC 238 B }	} W/1404 }
Q4	Led Driver		
Q5-Q7	Bass Modulator		
Q9	Cymbal Oscillator		
Q10	Snare Drum Oscillator		
Q13	Bongo Oscillator		
Q14	Block Oscillator		
Q15	Bass Drum Oscillator		
Q12	Preamplifier	BC 209-B red dot	W/1413
Z1	Noise Generator	B/1604 Farfisa	B/1604
Do1	Led	FLV 110	B/1602
D1 + D38	Diodes	BA 130	B/1003
P1	Volume Potentiometer	47 KOhm Logic	P/284
P2	Tempo Potentiometer	1 MOhm Linear	P/285



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RIGHT TO CHANGE SPECIFICATIONS, DESIGNS,  
PRICES, MODELS AND TO DISCONTINUE  
MODELS WITHOUT NOTICE AND LIABILITY.**







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of Lear Siegler, Inc.

# SERVICE NOTE

No. 0028

Date: Sept. 9th, 1980

Oggetto : TOP OCTAVE SYNTHESIZER per Generatore Unico

A seguito della cessata produzione da parte della Sescosem dell'integrato SFF 5009, ns. codice W/1107, Vi segnaliamo che, qualora necessitasse la sostituzione del suddetto integrato nei modelli sotto-elencati, nell'ordinazione delle parti di ricambio si dovrà richiedere in sua vece il W/1105, corrispondente al tipo S 50242 AMI oppure il tipo M 086 A B1 S.G.S., e sostituire anche i condensatori C1 e C2, come da allegato.

Subject : TOP OCTAVE SYNTHESIZER for Single Generator

Please note that the integrated device SFF 5009 by Sescosem (our code W/1107) is out of production. In case replacement of same is needed in the listed models, please order W/1105 (S 50242 device by AMI or M 086 A B1 by S.G.S. Co.) as spare part in its place. Then replace also capacitors C1 and C2 as indicated in the enclosed schematics.



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# SERVICE NOTE

No. 0028

Date: Sept. 9th, 1980

PA-code	Model	C1 = C2 (pF)	Farfisa Code
PA 930	257R - 257RV	120	C/5326
PA 930/1	255R - 255RV	270	C/5334
PA 930/2	250RSE - 251RSE - 252RSE	330	C/5336
PA 930/3	MATADOR A - AR - AR/C	(*) 620 + 1000	C/5343+C/5348
PA 930/4	CH / 25	270	C/5334
PA 930/5	247R	360	C/5337
PA 930/6	249R - 4290R	348	C/5674
PA 930/7	CH / 32	121(*)	C/5658
PA 930/8	5230R - 5210R	150	C/5328
PA 930/9	4260R	780	C/5800
PA 930/10	PROFESSIONAL 110 - 110/R	150	C/5328

(\*) La capacità complessiva deve essere di 1620 pF, pertanto i condensatori da 620 e 1000pF vanno montati in parallelo.

(\*\*) In parallelo al C1 va aggiunto n° 1 condensatore da 10pF - ns. cod. C/5300.

(\*) The total capacitance is 1620pF, therefore the 620pF and 1000pF capacitors shall be connected in parallel.

(\*\*) n° 1 10pF capacitor, our code C/5300, shall be added in parallel to C1.

