



Stereo
Syntorchestra

3RD EDITION

SCHEMATIC DIAGRAMS

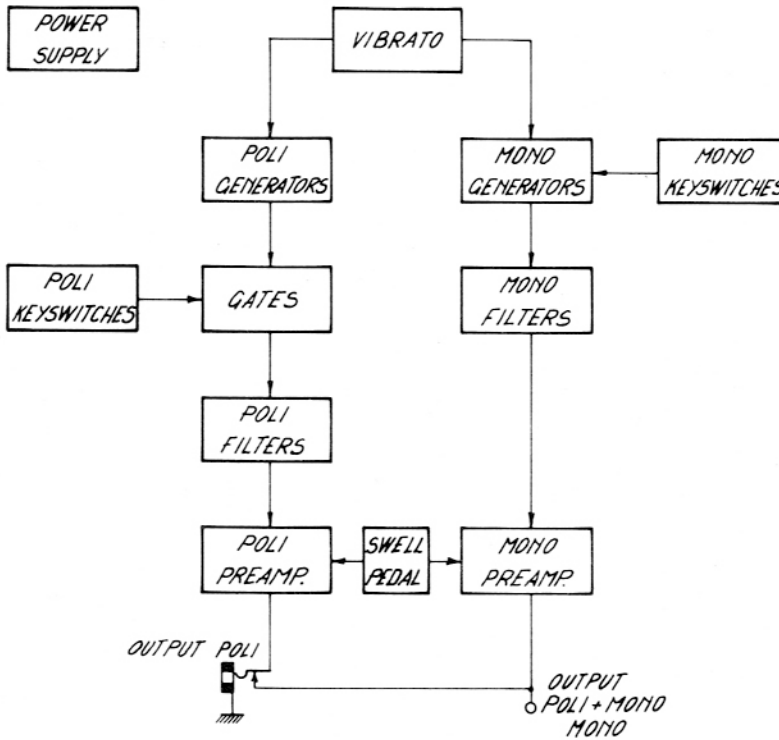
IMPORTANT : IN ANY CORRESPONDENCE CONCERNING THIS INSTRUMENT ALWAYS INCLUDE MODEL AND SERIAL NUMBERS!

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

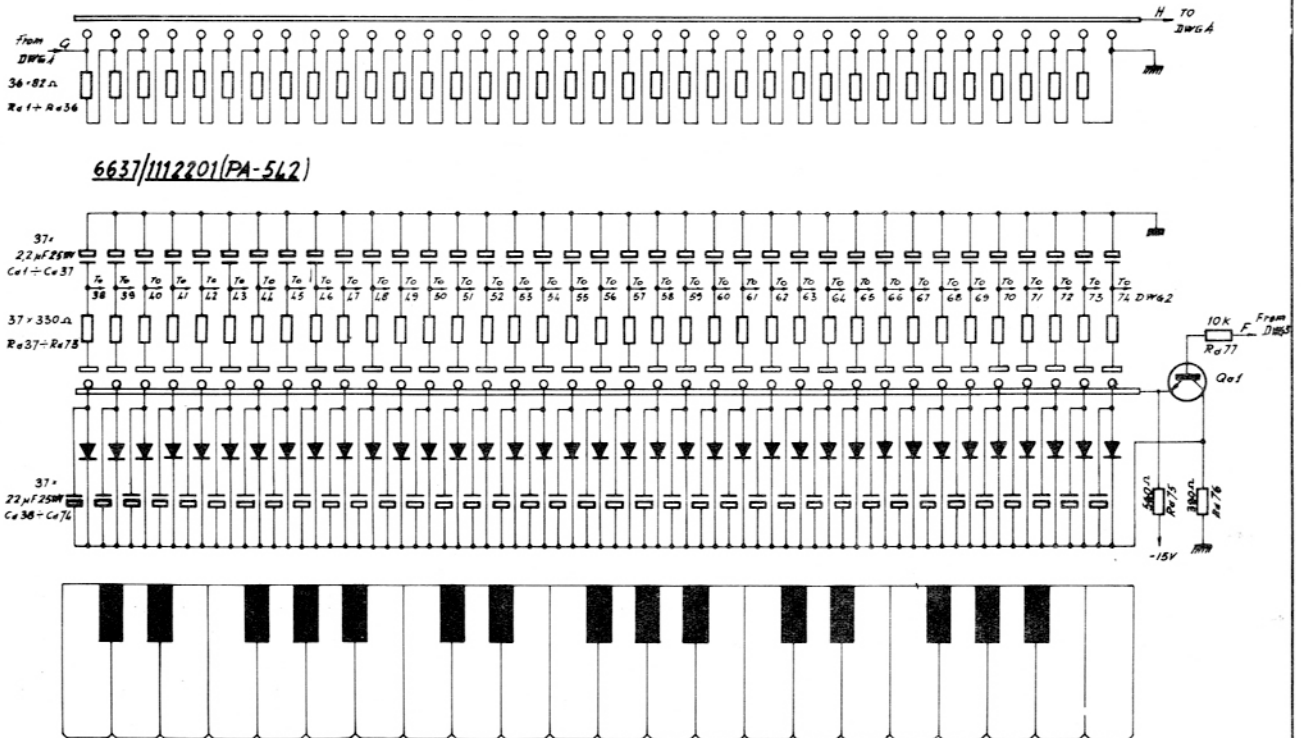
1. Model and serial Number of instrument.
2. Part Code.
3. A description of the Part.
4. Specify how you want the part shipped.

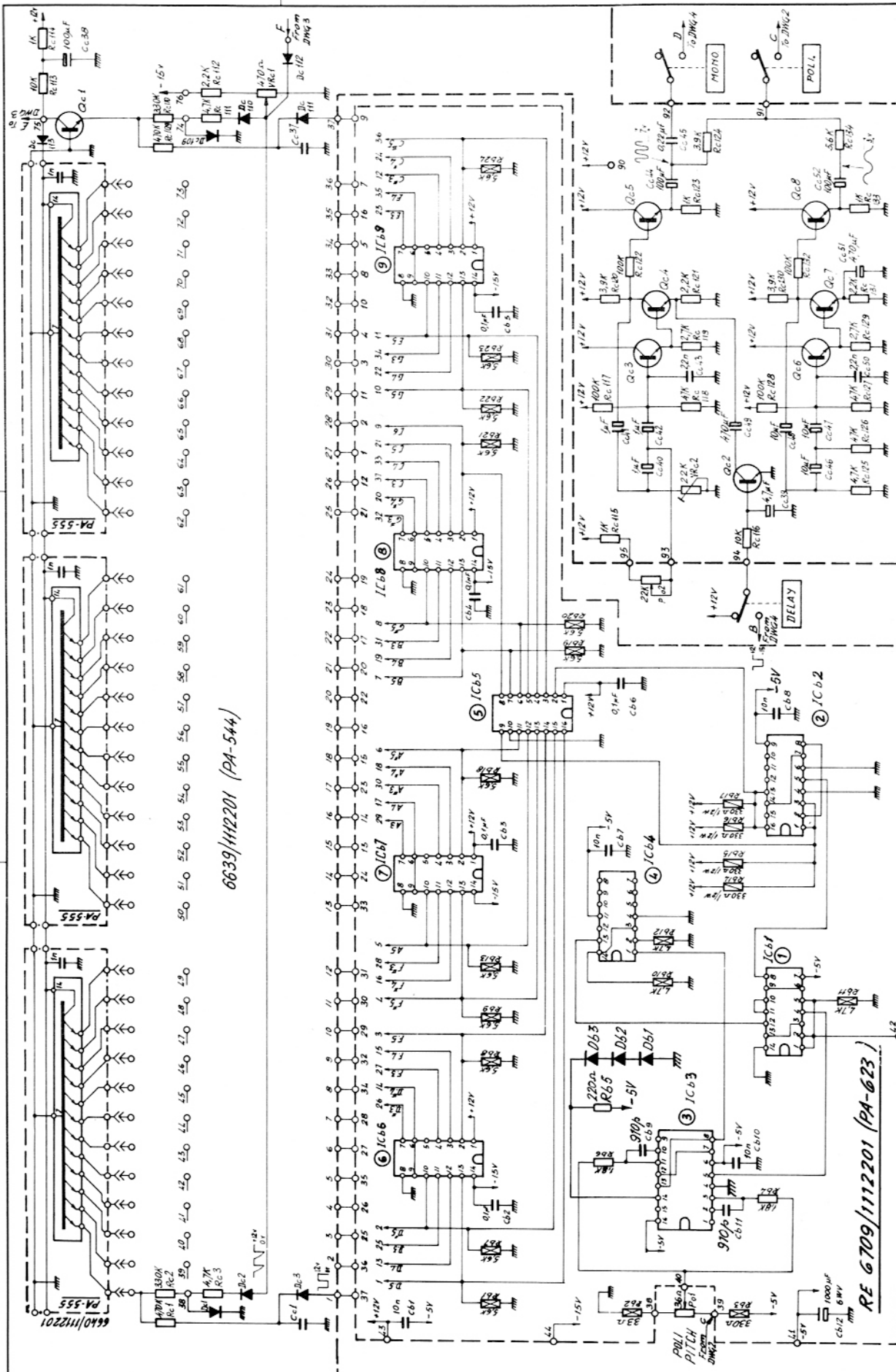
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AND NEW DEVELOPMENTS - RESERVES THE
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PRICES, MODELS AND TO DISCONTINUE
MODELS WITHOUT NOTICE AND LIABILITY.

BLOCK DIAGRAM



NOTES: 1) All resistors 1/8 W unless otherwise indicated.
 2) All semiconductors shown in OFF position.
 3) All keyswitches shown in OFF position.
 4) See parts list for component part numbers.





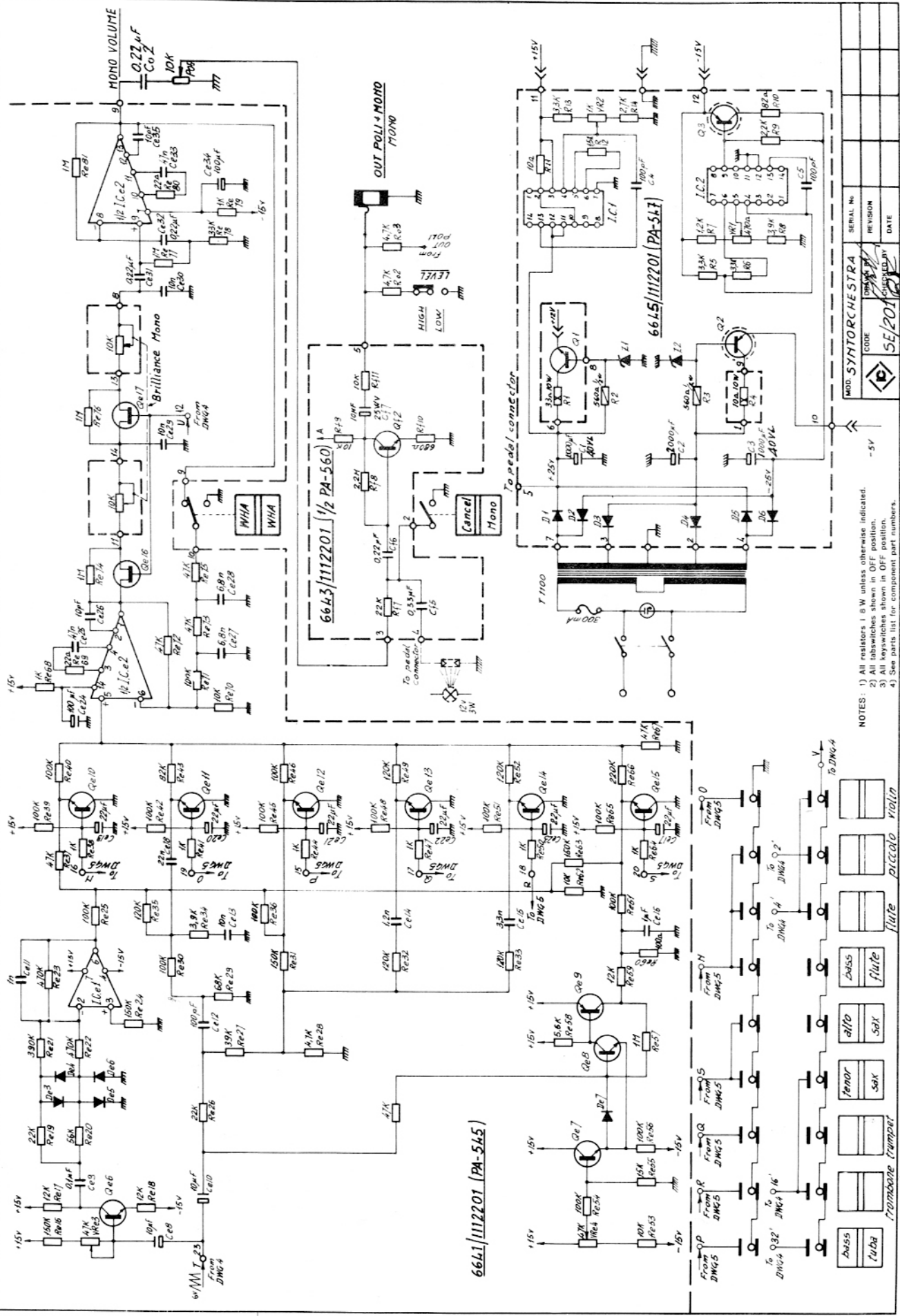
6639/H12201 (PA-544)

RE 6709/1112201 (PA-623)

TEXAS VERSION

NOTES: 1) All resistors 1/8W unless otherwise indicated.
2) All tabwicks shown in OFF position.
3) All keyswitches shown in OFF position.
4) See parts list for component part numbers.

MOD.	SERIAL NO.	REVISION	DATE
SYNTORCHESTRA			
CODE	5E-201	CHECKED BY	



NOTES: 1) All resistors 1/8 W unless otherwise indicated.
 2) All switches shown in OFF position.
 3) All switches shown in OFF position.
 4) See parts list for component part numbers.

MOD. SYNTORCHESTRA	SERIAL No.	REVISION	DATE
CODE	10000000	1	5/20/72
DESIGNED BY			

Schem.Ref.	Circuit	Type	Part Code
<u>CHASSIS</u>	<u>POWER SUPPLY (DWG 5/SE 201)</u>		<u>8000/1112201</u>
Q 1	Series Stabilizer.....	Westinghouse 156 - 043 RCA 2N 3055.....	W/1800-W/1801
<u>PA 547</u>	<u>VOLTAGE REGULATOR BOARD (DWG 5/SE 201)</u>		<u>6645/1112201</u>
Q2 - Q3	Series Stabilizer.....	BC 287..... BC 303 - 6.....	W/1702
I.C.1-I.C.2	Series Stabilizer.....	TEXAS-SN 72723N.....	W/1209
D1 ÷ D6	Rectifier Diodes.....	10 D 1	B/11 00 B/1101
Z 1	Zener Diode (13V - 1W).....	ITT - ZY 13.....	B/1418
Z 2	Zener Diode (5,6V - 400mW).....	ITT - ZPD 5,6.....	B/1309
<u>PA 542</u>	<u>KEYSWITCH (DWG 1/SE 201)</u>		<u>6637/1112201</u>
Q a1	Switch.....	BC 209 - B..... BC 239 - B.....	W/1407
D a1÷D a37	Diodes.....	S.G.S. IX 9809..... TEXAS 1N 4148.....	B/1000 B/1003
<u>PA 544</u>	<u>ELECTRONIC SWITCHING POLY (DWG 2-3/SE 201)</u>		<u>6639/1112201</u>
Q c1	Gate.....	} BC 209 - B..... BC 239 - B..... TEXAS - TIS 70..... BC 209 - B..... BC 239 - B..... S.G.S. TBA 231.....	W/1407
Q c2	Switch.....		
Q c3-Q c4	Oscillator Vibrato.....		
Q c5	Buffer.....		
Q c6-Q c7	Oscillator Vibrato.....		
Q c8	Buffer.....		
Q c9	Active Filter.....		
Q c10	Preamplifier.....		
Q c11÷Q c14	Mute Switches.....		
Q c15-Q c16	Dual Fet.....		
Q c17	Switch.....		
I.C. c1	Preamplifier.....		
<u>PA 555</u>	<u>GATE BOARD (DWG 2/SE 201)</u>		<u>6640/1112201</u>
I.C.	Gate To 12 emitter.....	ITT-TDA 0470.....	W/1207

Schem.Ref.	Circuit	Type	Part Code
<u>PA 623/1</u>	<u>POLYPHONIC TONE GENERATOR (DWG 2/SE 201)</u>		<u>6710/1112201</u>
I.C. b1	Nand Gate.....	SN 7400.....	W/1000
I.C. b2	Dual On-Shot.....	SN 29730 N.....	W/1009
I.C. b3	Dual J-K Flip-Flop.....	SN 7473.....	W/1002
I.C. b4-5	Frequency Dividers.....	G.I.E. AY-1-5050.....	W/1100-W/1101
I.C. b6-8			
I.C. b7	G.I. Synthesizer.....	G.I.E. AY-1-0212.....	W/1105
Q b 1	Fase Generator.....	BC 209-B-C.....	W/1407-W/1410
		BC 109-B-C.....	W/1409-W/1412
D b1 + 3	Diodes.....	IX 9808.....	B/1000-B/1003
		1N 414.....	
<u>PA 623</u>	<u>POLYPHONIC TONE GENERATOR (DWG 2/SE 201)</u>		<u>6709/1112201</u>
I.C. b1	Nand Gate.....	SN 7400.....	W/1000
I.C. b2	Fase Generator.....	TEXAS SN 29858 N.....	W/1011
I.C. b3	Dual On-Shot.....	SN 29730 N.....	W/1009
I.C. b4	Dual J-K Flip+Flop.....	SN 7473.....	W/1002
I.C. b5	Top Octave Syntetyzer....	TEXAS TMS 3839.....	W/1106
I.C. b6+b9	Frequency Dividers.....	G.I.E. AY-1-5050.....	W/1100-W/1101
D b1 + D b3	Diodes.....	IX 9808.....	B/1000-B/1003
		1N 414.....	
<u>PA 560</u>	<u>POLY - MONO PREAMPLIFIER (DWG 3-5/SE 201)</u>		<u>6643/1112201</u>
Q f1-Q f2	Preamplifier.....	BC 209 -B.....	W/1407
		BC 239 -B.....	
<u>PA 546</u>	<u>MONOPHONIC TONE GENERATOR (DWG 4/SE 201)</u>		<u>6642/1112201</u>
Q d1	Current Reference Generator } Oscillator..... Integrator.....	BC 209 - B.....	W/1407
Q d2-Q d3		BC 239 - B.....	
Q d4		BC 154.....	W/1500
Q d5	Switch.....	BC 209 - B.....	W/1407
		BC 239 - B.....	
Q d6-Q d7	Switch Fet.....	SILICONIX E 402.....	W/2002
Q d8-Q d9	Dual Fet.....	TEXAS TIS 70.....	W/2001

Schem.Ref.	Circuit	Type	Part Code
Q d10	Switch.....	BC 209 - B.....	W/1407
Q d11	Preamplifier.....		
Q d12	Switch.....	BC 239 - B.....	
Q d13	Switch.....	BC 154.....	W/1500
Q d14-Q d15	One-Shot.....	BC 209 - B.....	W/1407
Q d16-Q d17	Switches.....		
Q d18-Q d19	Switches.....	BC 154.....	W/1500
Q d20	Switch.....	BC 209 B - BC 239 B.....	W/1407
Q d21	Fet.....	AMELCO 2N 4304.....	W/2000
Q d22-Q d23	Switches.....	BC 154.....	W/1500
I.C. d1	Buffer.....	TEXAS SN 72741 P.....	W/1210
I.C. d2	Preamplifier.....		
I.C. d3	Sample And-Hold.....	FAIRCHILD 741 TC.....	
I.C. d4	Voltage Summer.....		
I.C. d5-6	Reference Voltage Generator		
I.C. d7	Transistor Arrays.....	R.C.A. CA 3046.....	W/1211
Z d1	Zener Diode (6,2V-1W).....	ITT ZY 6,2.....	B/1410
D d1+D d14	Diodes.....	S.G.S. IX 9809.....	B/1000-B/1003
		FAIRCHILD BA 130.....	

PA 545MONOPHONIC FILTERS (DWG 4-5/SE 201)6641/1112201

Q e1+Q e4	Switches.....	BC 209 - B.....	W/1407
		BC 239 - B.....	
Q e5	Switch.....	BC 154.....	W/1500
Q e6	Triangle Wave Shaper.....	BC 209 - B.....	W/1407
Q e7+Q e8	Trigger.....		
Q e9	Trigger.....	BC 154.....	W/1500
		BC 209 - B.....	W/1407
Q e10+Q e15	Mute Switches.....	BC 239 - B.....	
Q e16-Q e17	Dual Fet.....	TEXAS - TIS 70.....	W/2001
I.C. e1	Sine Wave Shaper.....	SN 72741 P.....	W/1210
I.C. e2	Preamplifier.....	SN 76131.....	W/1212-W/1213
		S.G.S. IX 9809.....	B/1000-B/1003
D e1+D e7	Diodes.....	FAIRCHILD BA 130.....	

FARFISA P. O. BOX 204 - ANCONA (ITALY)



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