

# ELFARFISA

**VIP 255**

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**schematic diagrams**

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IV Ediz.

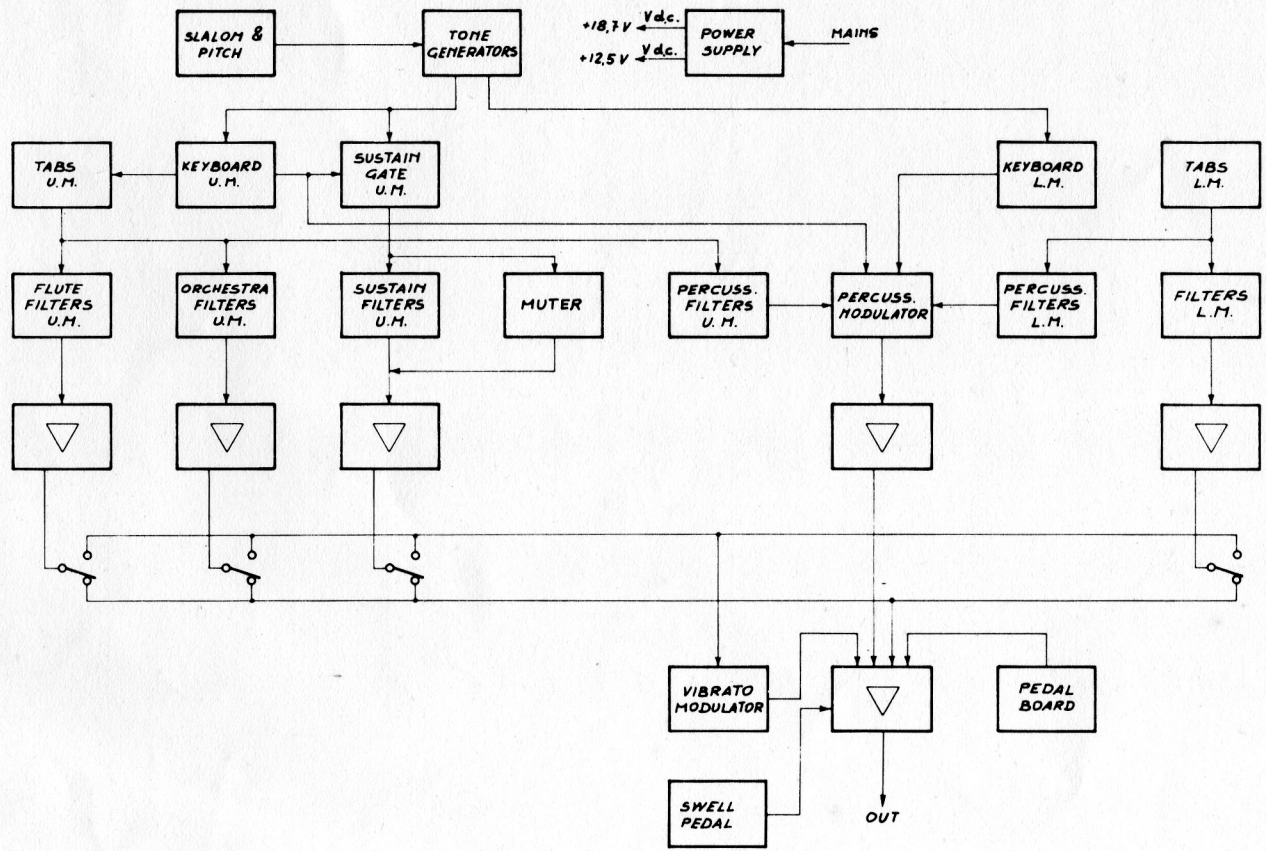

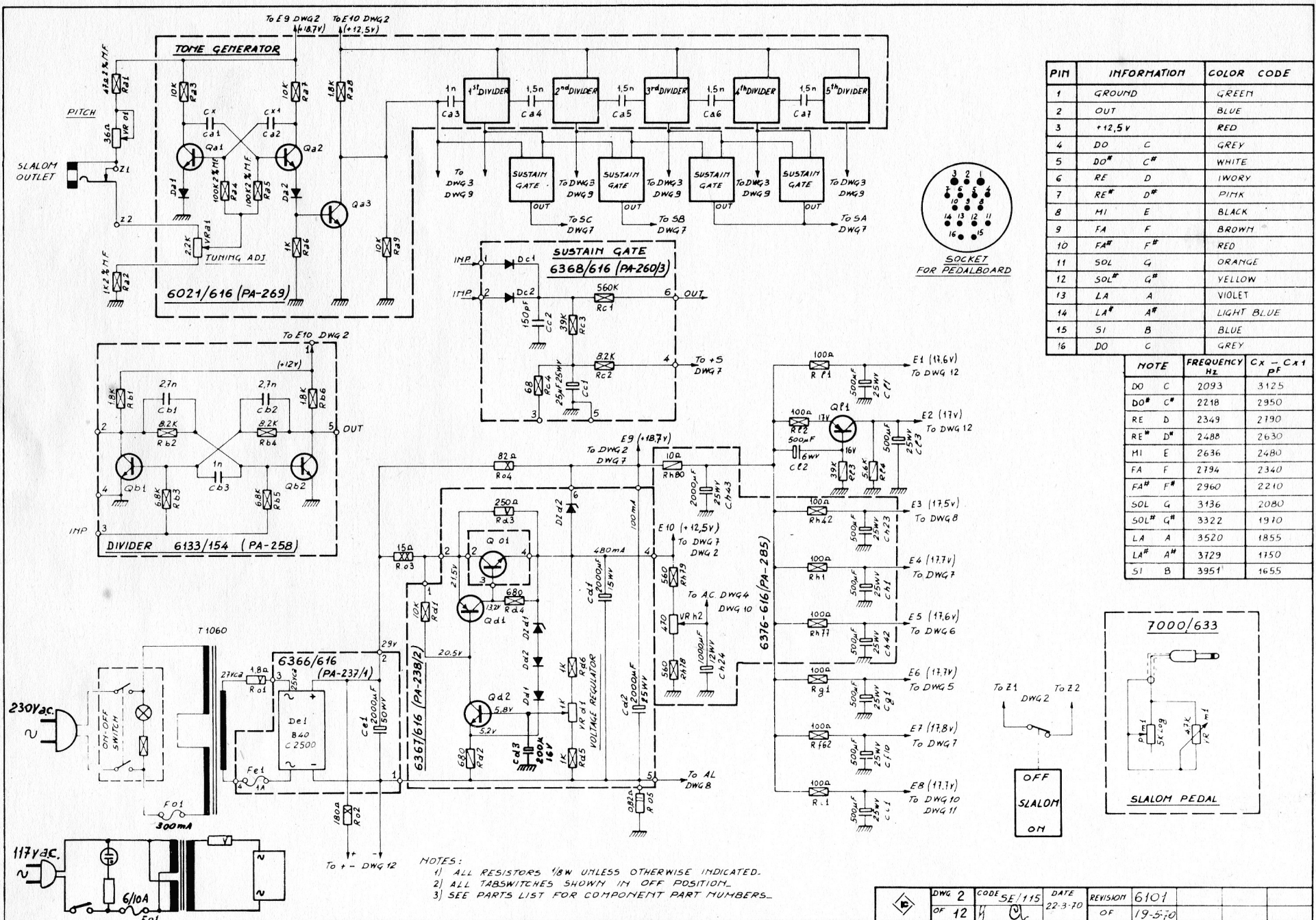


DIAGRAM BLOCK

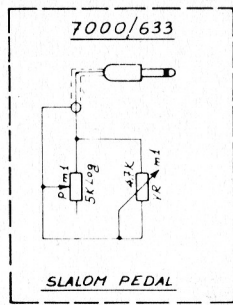
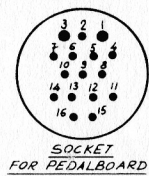
DWG 1

	DWG 1	CODE SF/115	DATE	REVISION	
	OF 12		26-3-70	OF	



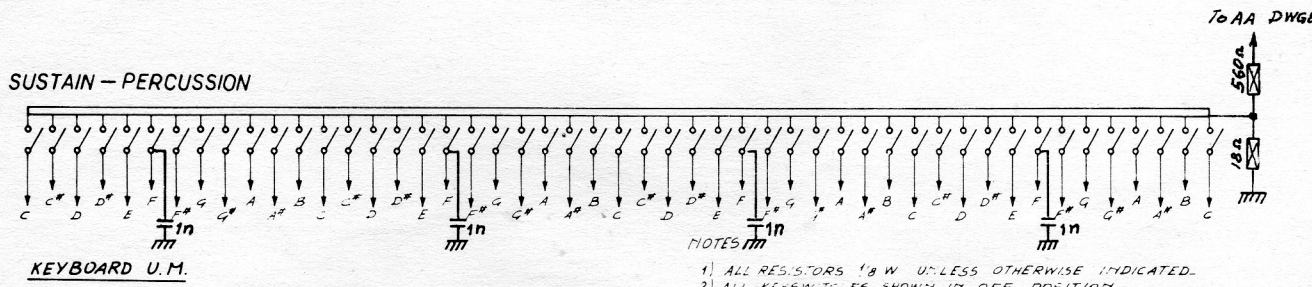
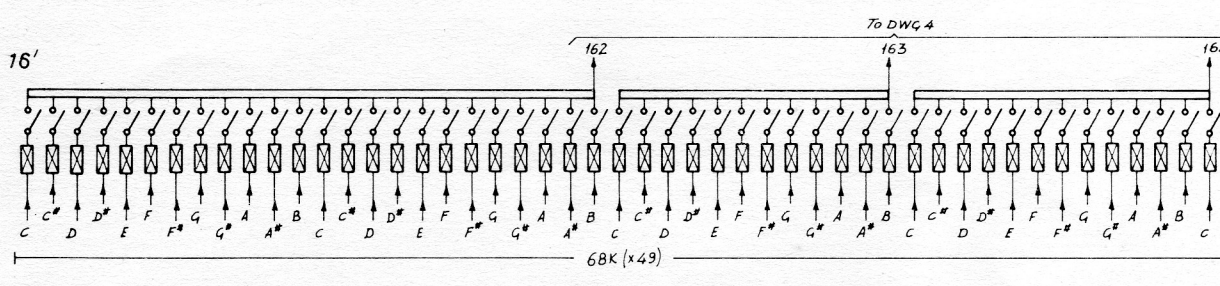
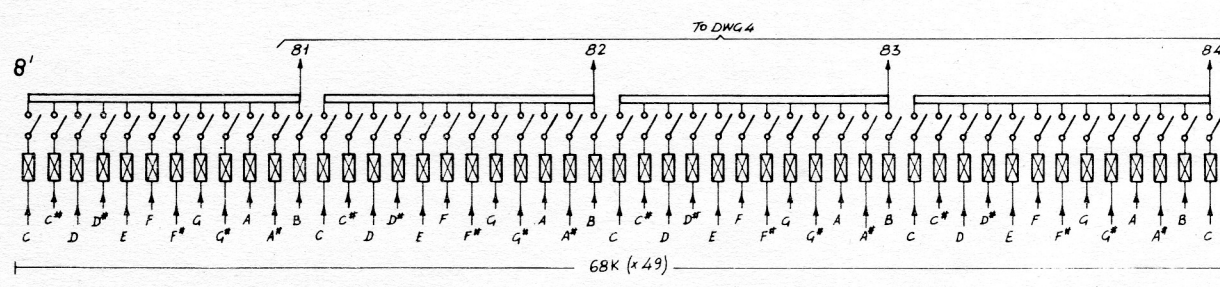
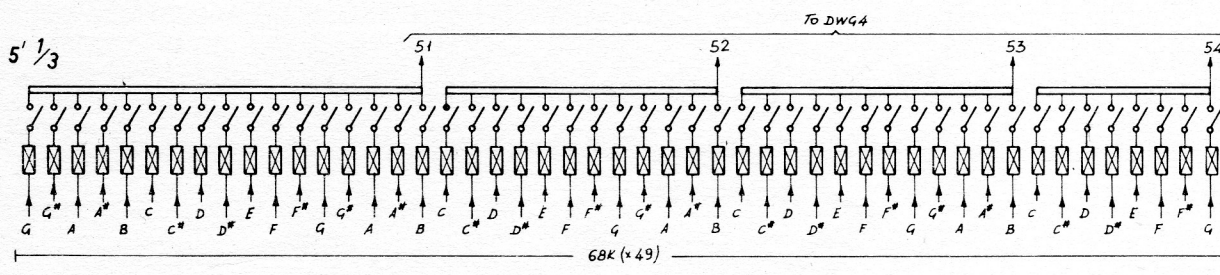
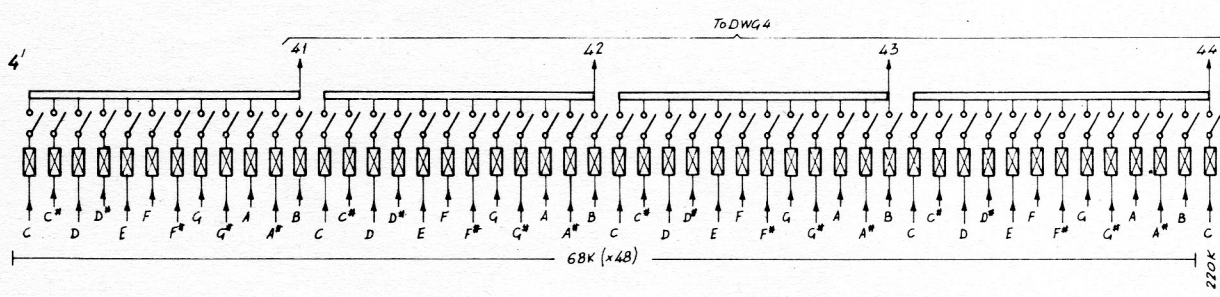
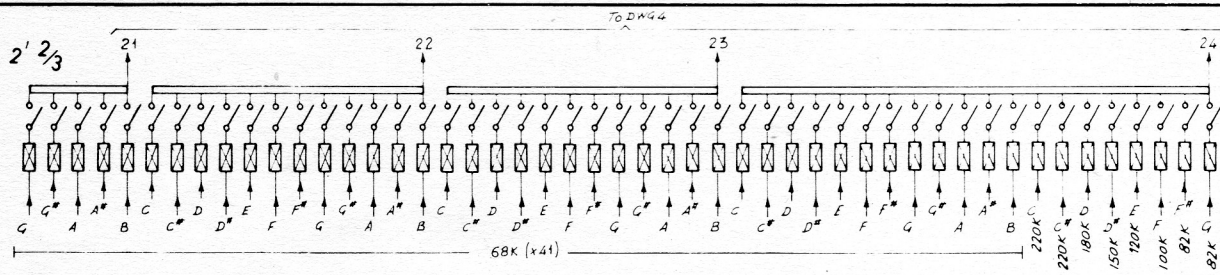
PIN	INFORMATION	COLOR CODE
1	GROUND	GREEN
2	OUT	BLUE
3	+12.5V	RED
4	DO C	GREY
5	DO# C#	WHITE
6	RE D	1WORY
7	RE# D#	PINK
8	HI E	BLACK
9	FA F	BROWN
10	FA# F#	RED
11	SOL G	ORANGE
12	SOL# G#	YELLOW
13	LA A	VIOLET
14	LA# A#	LIGHT BLUE
15	SI B	BLUE
16	DO C	GREY

NOTE	FREQUENCY Hz	Cx - Pf
DO C	2093	3125
DO# C#	2218	2950
RE D	2349	2190
RE# D#	2488	2630
HI E	2636	2480
FA F	2794	2340
FA# F#	2960	2210
SOL G	3136	2080
SOL# G#	3322	1910
LA A	3520	1855
LA# A#	3729	1150
SI B	3951	1655



NOTES:  
 1) ALL RESISTORS 1/8W UNLESS OTHERWISE INDICATED.  
 2) ALL TABSWITCHES SHOWN IN OFF POSITION.  
 3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

DWG 2	CODE SE/115	DATE 22-3-20	REVISION 6101
OF 12			OF 19-5-20

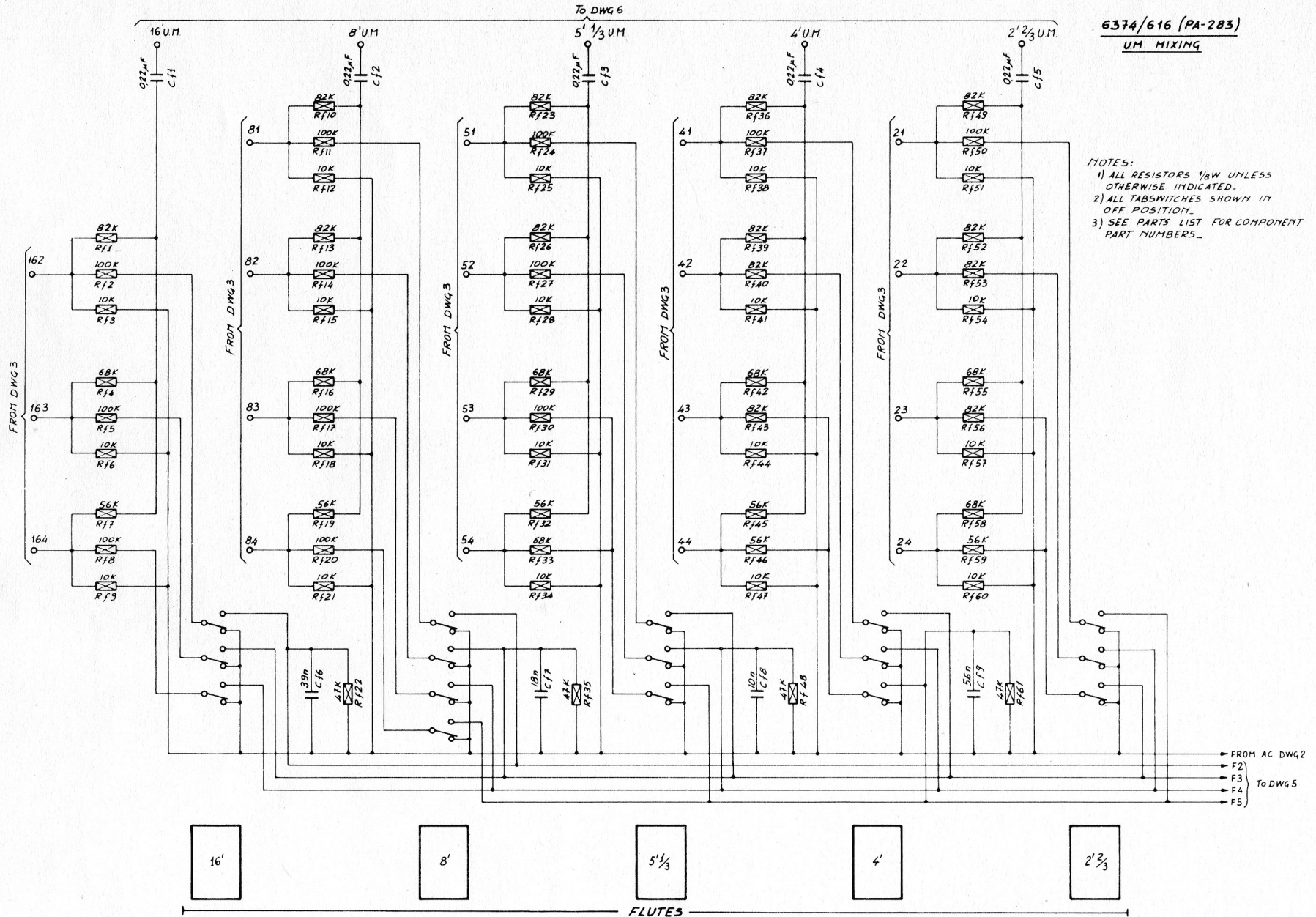


6370/616 (PA-272)

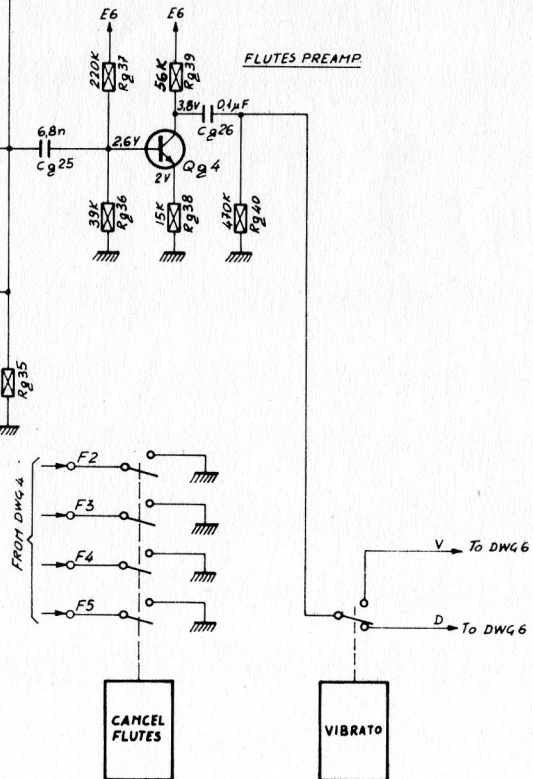
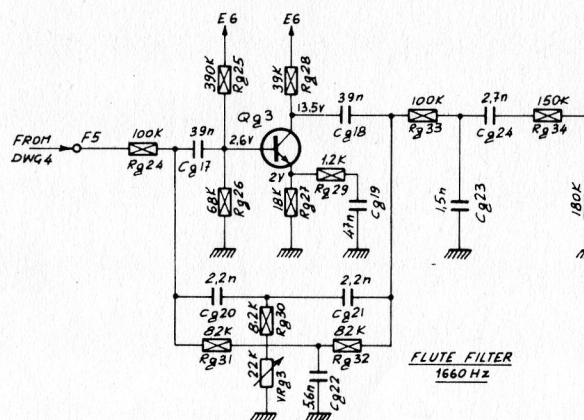
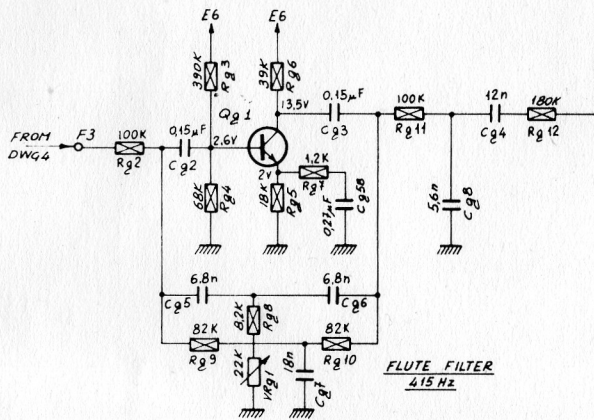
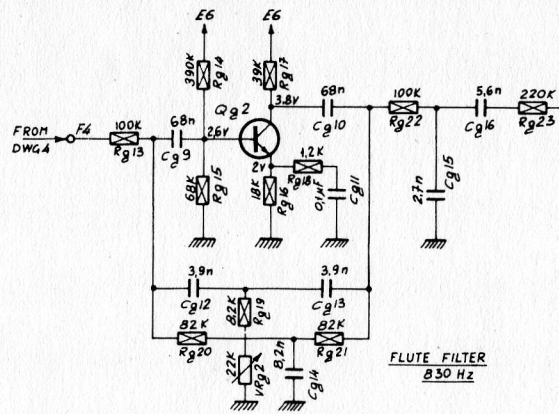
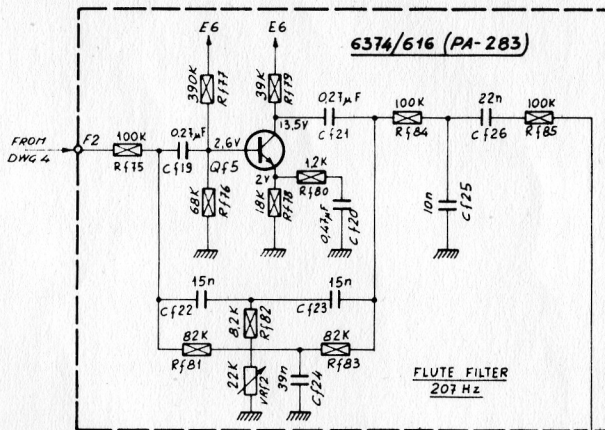
DWG 3	CODE	DATE	REV	6101
	12	SE 115	26-3-70	27-5-70

6374/616 (PA-203)  
UM. MIXING

- NOTES:  
 1) ALL RESISTORS 1/8W UNLESS OTHERWISE INDICATED.  
 2) ALL TABSWITCHES SHOWN IN OFF POSITION.  
 3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.



DWG 4 OF 12	CODE	DATE	REVISION						
	SE/115	26-3-70							

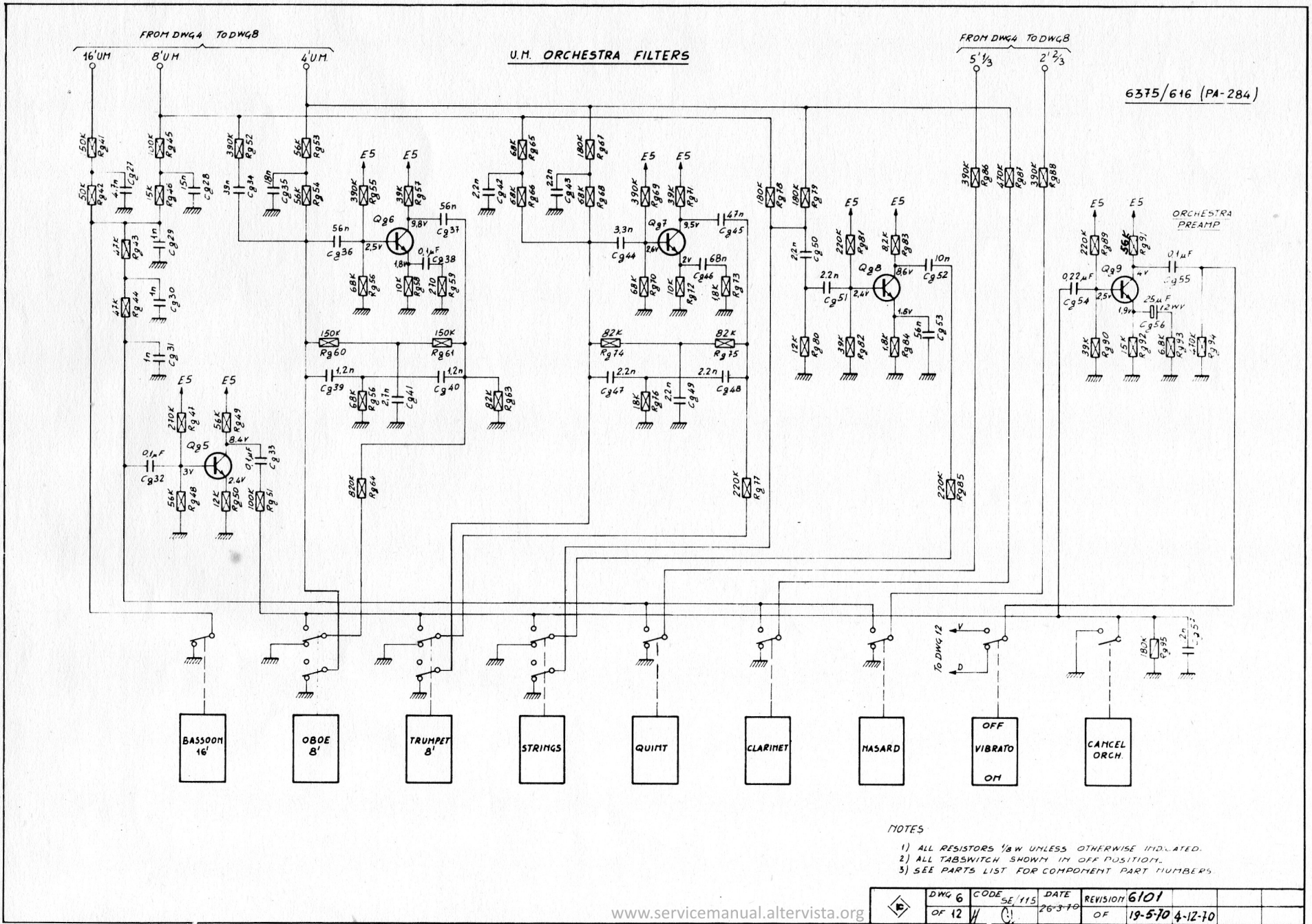


U.M. FLUTE FILTERS

NOTES:

- 1) ALL RESISTORS 1/8W UNLESS OTHERWISE INDICATED.
- 2) ALL TABSWITCHES SHOWN IN OFF POSITION.
- 3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

DWG 5	DWG 5	CODE	DATE	REVISION					
	OF 12	SF/115	26-3-70	OF 4	12-70				



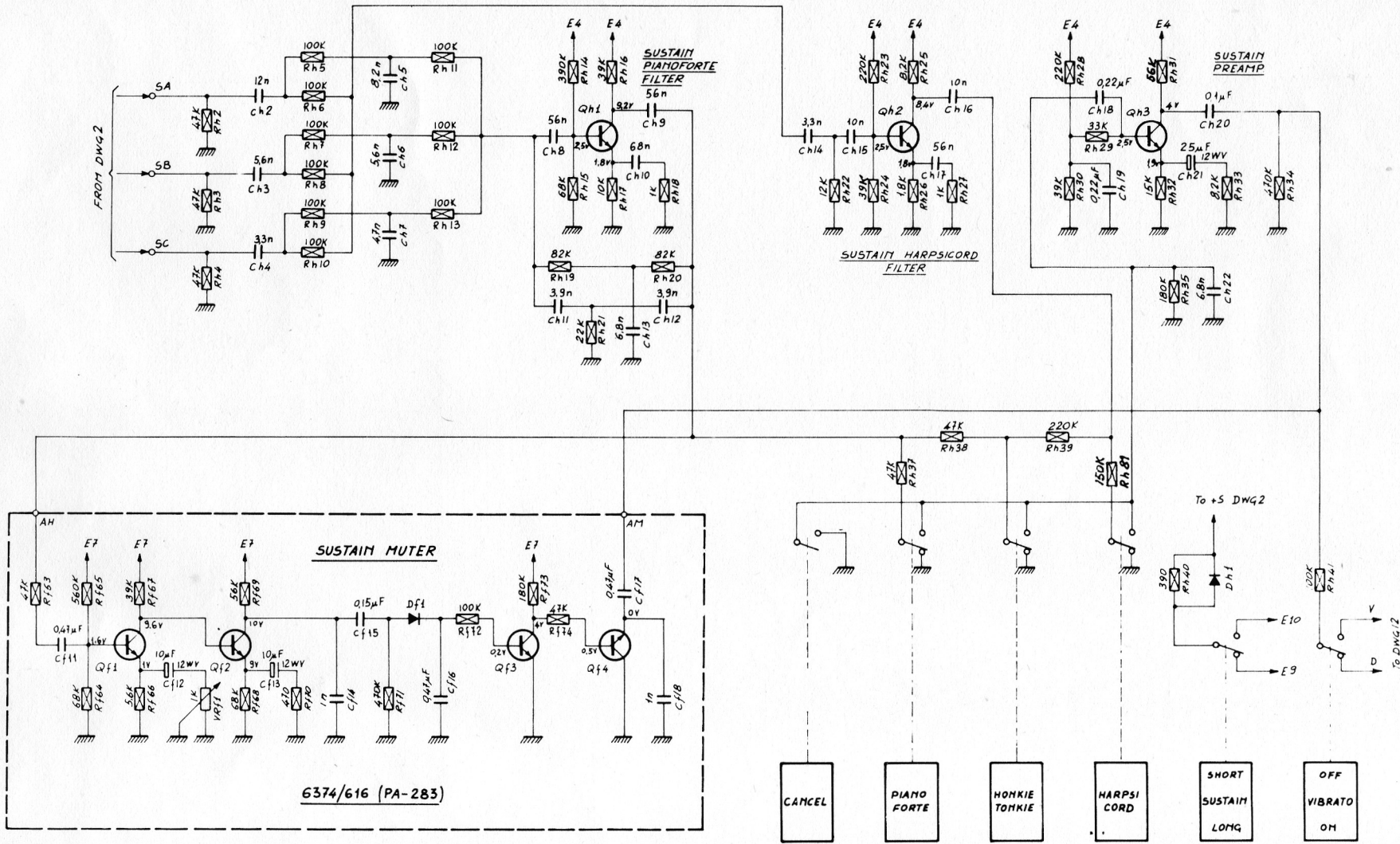
U.M. ORCHESTRA FILTERS

6375/616 (PA-284)

- BASSOON  
16'
- OBOE  
8'
- TRUMPET  
8'
- STRINGS
- QUILT
- CLARINET
- NASARD
- OFF  
VIBRATO  
ON
- CANCEL  
ORCH

- NOTES
- 1) ALL RESISTORS 1/8 W UNLESS OTHERWISE INDICATED.
  - 2) ALL TABSWITCH SHOWN IN OFF POSITION.
  - 3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

DWG 6	CODE SE/115	DATE 26-3-70	REVISION 6101				
OF 12	W	OF	19-5-70	4-12-70			



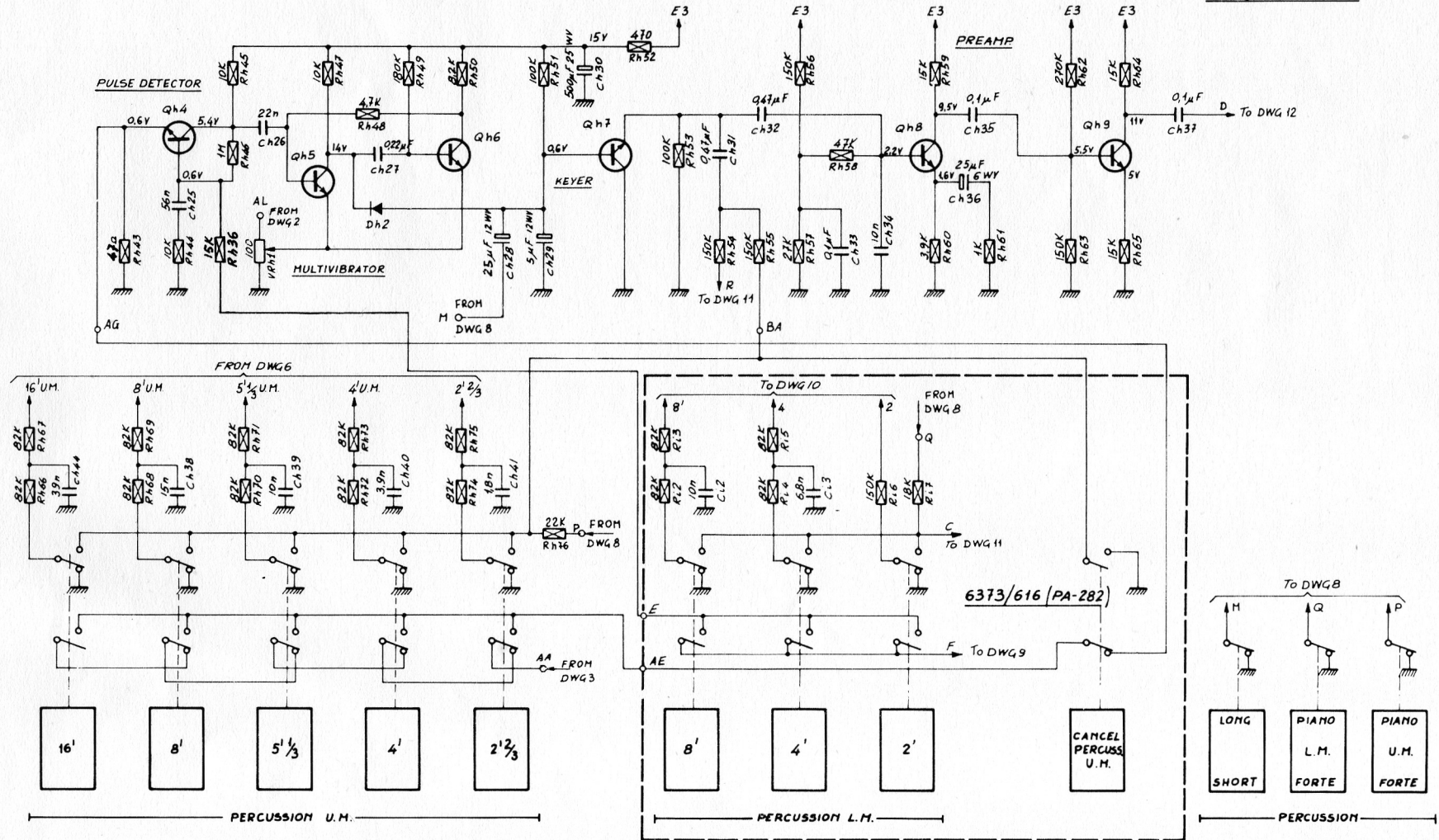
NOTES:  
 1) ALL RESISTORS 1/8W UNLESS OTHERWISE INDICATED.  
 2) ALL TABSWITCHES SHOWN IN OFF POSITION.  
 3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

DWG 7	CODE	DATE	REVISION	6101			
	OF 12	5E/115	26-3-70	OF	27-5-70	A-12-70	



**PERCUSSION**

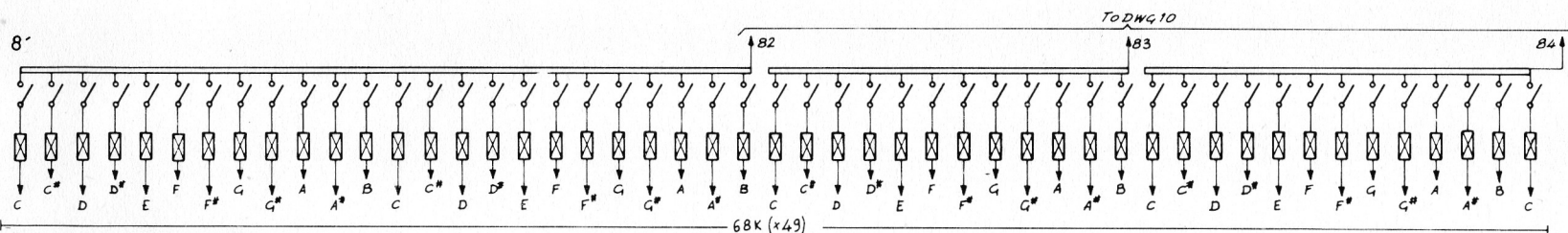
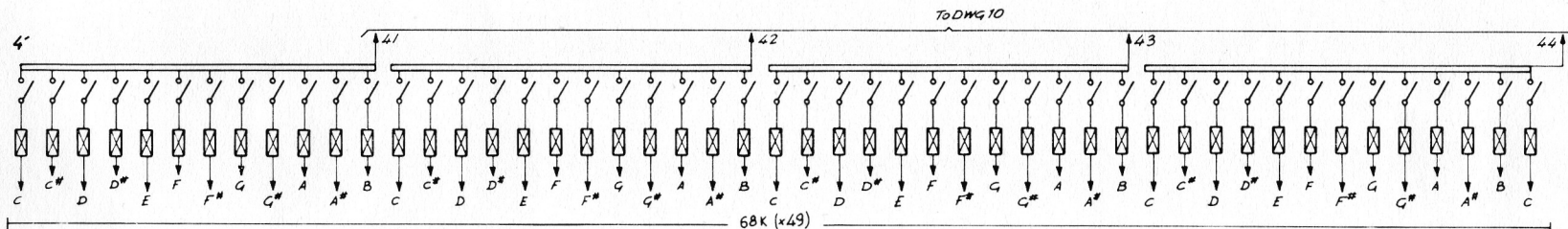
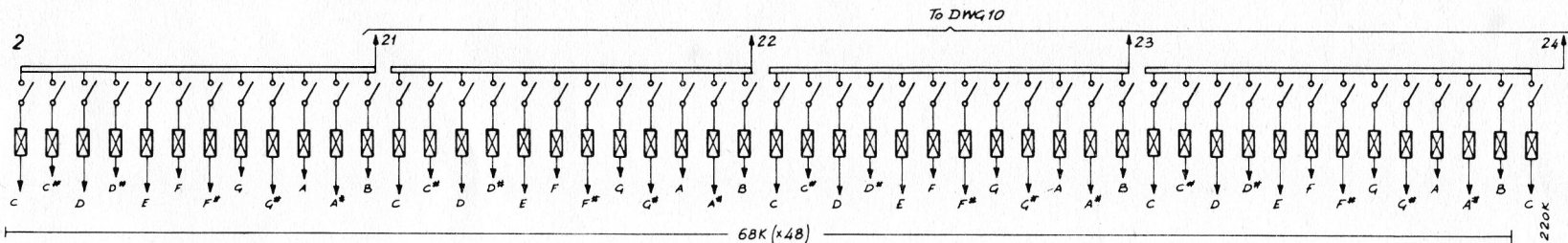
6376/616 (PA-285)



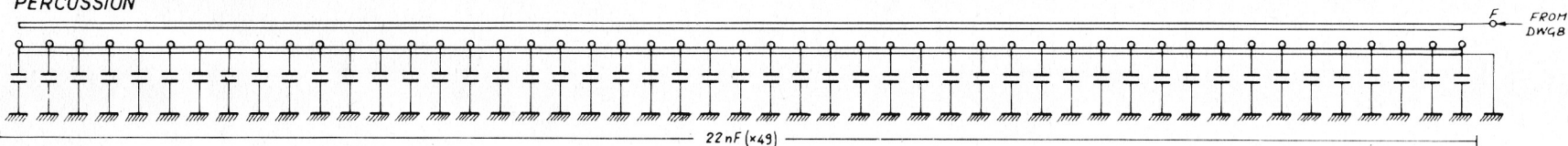
**NOTES:**

- 1) ALL RESISTORS 1/8 W UNLESS OTHERWISE INDICATED.
- 2) ALL TABSWITCHES SHOWN IN OFF POSITION.
- 3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

DWG 8	CODE	DATE	REVISION	6101
OF 12	5E/115	26-3-70	OF	19-5-70



**PERCUSSION**



KEYBOARD L.M.

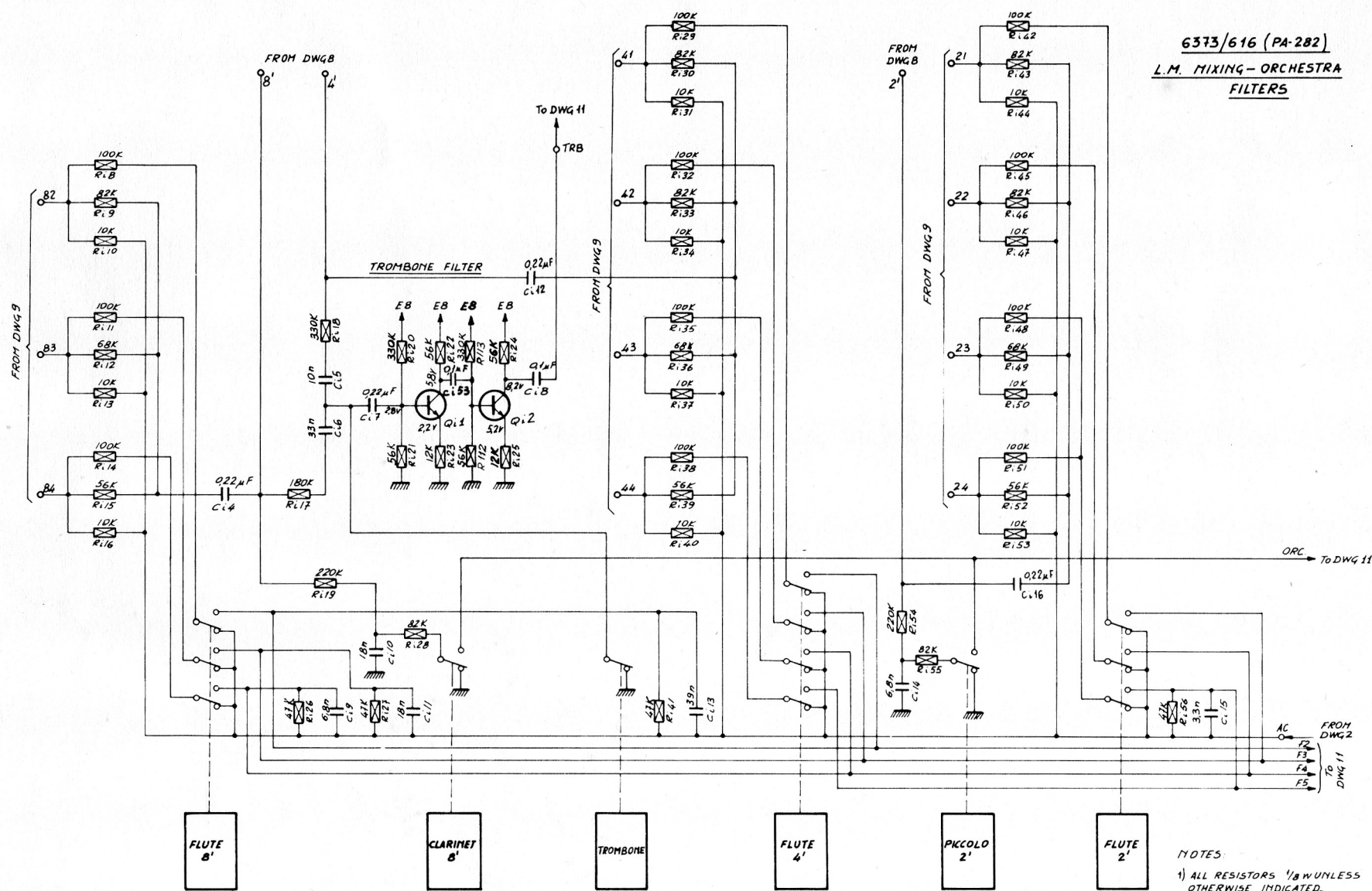
6371/616 (PA-27B)

**NOTES**

- 1) ALL RESISTORS 1/8W UNLESS OTHERWISE INDICATED.
- 2) ALL KEYSWITCHES SHOWN IN OFF POSITION.
- 3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

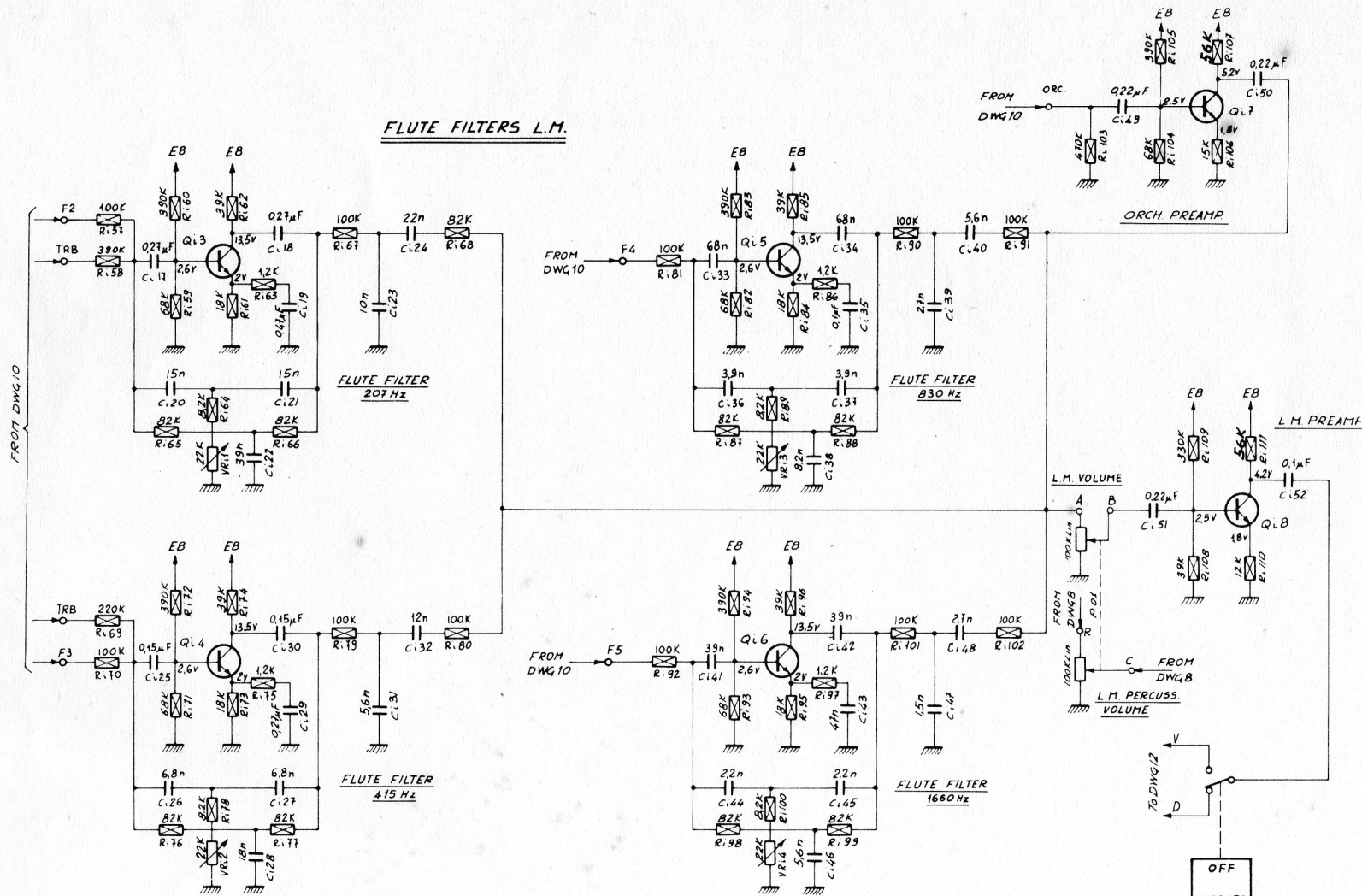
D	DWG 9	CODE SE/115	DATE 26-3-70	REVISION				
	OF 12	1	(1)	OF				

6373/616 (PA-282)  
 L.M. MIXING - ORCHESTRA  
 FILTERS



- NOTES:
- 1) ALL RESISTORS 1/8W UNLESS OTHERWISE INDICATED.
  - 2) ALL TABSWITCHES SHOWN IN OFF POSITION.
  - 3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

DWG 10	CODE	DATE	REVISION	6101		
	OF 12	SE-115	26-3-70	OF	19-5-70	

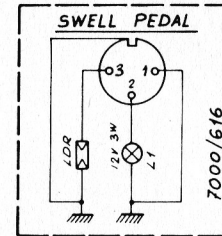
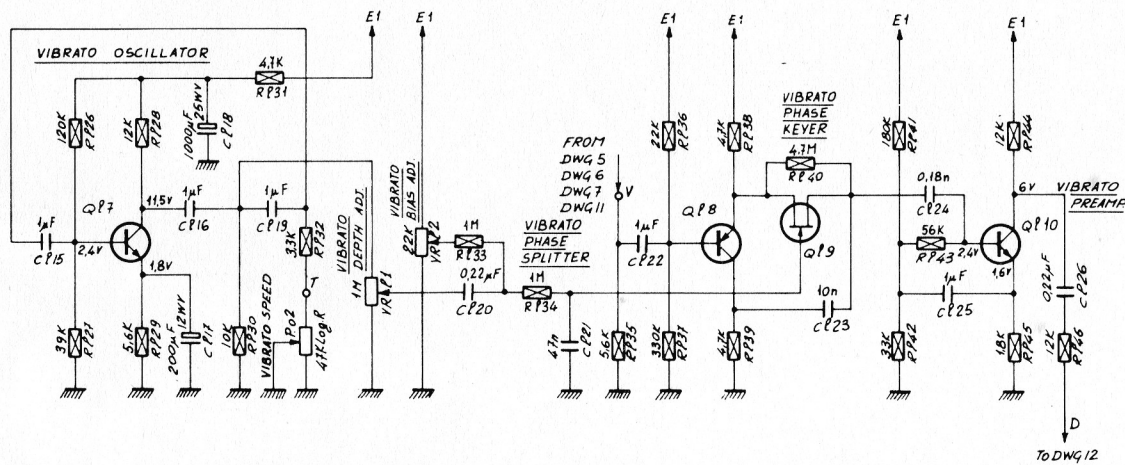
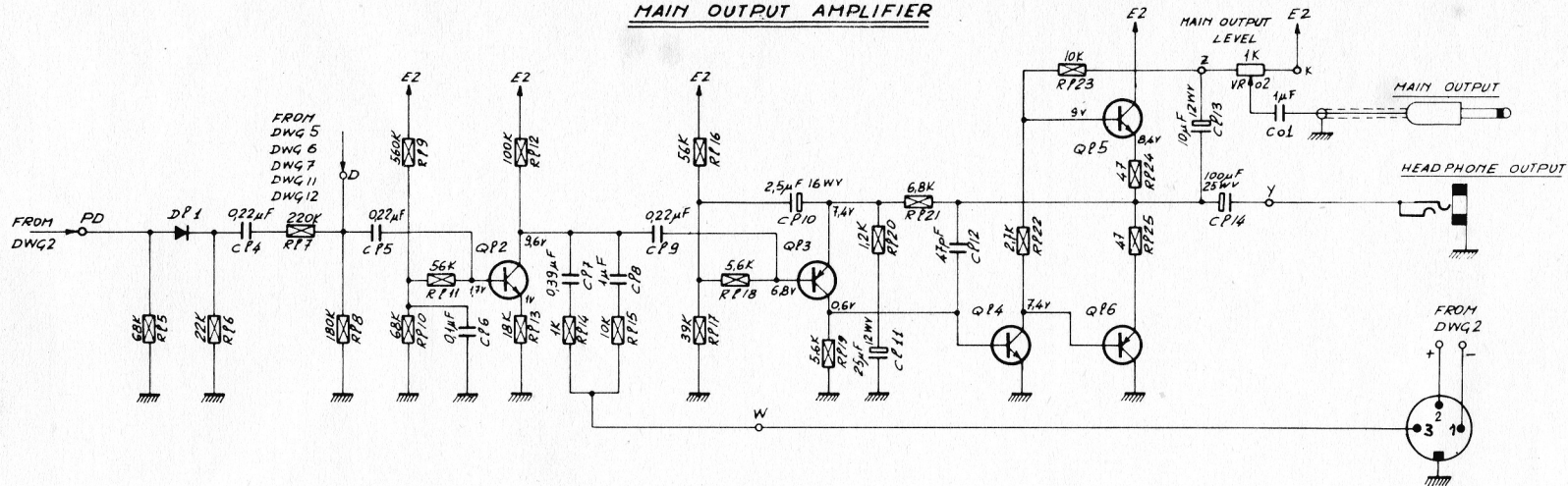


6373/616 (PA-282)

- NOTES:
- 1) ALL RESISTORS 1/8W UNLESS OTHERWISE INDICATED.
  - 2) ALL TABSWITCHES SHOWN IN OFF POSITION.
  - 3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

DWG 11	CODE	DATE	REVISION				
	OF 12	SF-115	26-3-10				
				OF	4-12-70		

**MAIN OUTPUT AMPLIFIER**



- NOTES  
 1) ALL RESISTORS 1/8 W UNLESS OTHERWISE INDICATED.  
 2) SEE PARTS LIST FOR COMPONENT PART NUMBERS

6372/616 (PA-281)

DWG 12	CODE	DATE	REVISION	6101			
	of 12	SE-115	26-5-10		OF	12-5-10	

## Transistors

POSITION	TYPE	FARFISA CODE
Q a1 + Q a3	2N 5172	W/126
	BC 109 B & C	W/98-101
	MISTRAL BC 209 B & C	W/110-111
Q b1, Q b2	2N 5172	W/126
Q d1	S.G.S. BC 143	W/65
Q d2	MISTRAL BC 207 A & B	W/108-109
Q f1, Q f2	BC 109 C - BC 209 C	
Q f3, Q f4		
Q f5	BC 109 B & C	W/143-148 *
	BC 209 B & C	W/145-150 *
Q g1 + Q g3	BC 109 B & C	W/144-149 **
	& Q g5	BC 209 B & C
Q g4 &	BC 109 B & C	W/143-148 *
Q g6 + Q g9	BC 209 B & C	W/145-150 *
Q h1 - Q h2	BC 109 B & C	W/144-149 **
	BC 209 B & C	W/146-151 **
Q h3 &	BC 109 B & C	W/143-148 *
	Q h7 + Q h9	BC 209 B & C
Q h5 + Q h6	2N 5172	W/126
Q h4	BC 109 B & C	W/98-101
	BC 209 B & C	W/110-111
Q i1 + Q i8	BC 109 B & C	W/143-148 *
	BC 209 B & C	W/145-150 *
Q 11, Q 13,	S.G.S. IW 9640	W/89
Q 16, Q 18		
Q 14, Q 17	2N 5172	W/126
Q 12, Q 15,	BC 109 B & C	W/143-148 *
Q 110	BC 209 B & C	W/145-150 *
Q 19	S.G.S. IW 11706	W/71
	AMELCO 2N 4304/sele- zionato	W/147
Q o1	RCA 2N 3055	W/50
	WESTINGHOUSE 2N 3055	W/118
	WESTINGHOUSE 156-043	W/114

\* = red dot  
\*\* = blue dot

## Diodes

POSITION	TYPE	FARFISA CODE
D a1, D a2	S.G.S. IX 9809	B/34
D c1, D c2	S.G.S. IX 9809	B/34
D d1, D d2	S.G.S. IX 9809	B/34
Dz d1	MULLARD BZY 88/C5V6	
	IRCI 1N 708	B/68
	ITT STANDARD ZF 5,6	B/69
	IRCI 1Z 6,2	B/87
Dz d2	IRCI 1ZC 6,2	B/88
	ITT STANDARD ZD 6,2	B/89
	MULLARD BZY 96/C6V2	B/90
D e1	B 40 C 2500	Y/14-Y/15
D f1	S.G.S. IX 9809	B/34
D h1	S.G.S. IX 9809	B/34
D h2	PHILIPS OA 70	B/8
	PHILIPS OA 90	B/99
D l1	S.G.S. IX 9809	B/34

## Components identification list

<u>G R O U P S</u>	<u>C O M P O N E N T S</u>
<u>6021/616 - TONE GENERATORS</u> (PA/269)	R a1 + R a9      Q a1 + Q a3 C a1 + C a7      VR a1 D a1 + D a2
<u>6133/154 - DIVIDER</u> (PA/258)	R b1 + R b6 C b1 + C b3 Q b1 + Q b2
<u>6368/616 - SUSTAIN GATE</u> (PA/260-3)	R c1 + R c4 C c1 + C c2 D c1 + D c2
<u>6367/616 - POWER SUPPLY</u> (PA/238-2)	R d1 + R d6      Dz d1 + Dz d2 C d1 + C d2      Q d1 + Q d2 D d1 + D d2      VR d1
<u>6366/616 - POWER SUPPLY</u> (PA/237-1)	D e1 C e1 F e1
<u>6374/616 - U.M. MIXING AND SUSTAIN MUTER</u> (PA/283)	R f1 + R f85      Q f1 + Q f5 C f1 + C f26      VR f1 + VR f2 D f1
<u>6375/616 - U.M. FLUTES AND ORCHESTRA FILTERS</u> (PA/284)	R g1 + R g95      Q g1 + Q g9 C g1 + C g58      VR g1 + VR g3
<u>6376/616 - SUSTAIN FILTERS AND U.M. PERCUSSION</u> (PA/285)	R h1 + R h80      Q h1 + Q h9 C h1 + C h44      VR h1 + VR h2 D h1 + D h2
<u>6373/616 - L.M. MIXING AND FILTERS</u> (PA/282)	R i1 + R i113 C i1 + C i53 Q i1 + Q i8

6372/616 - MAIN OUTPUT AMPLIFIER AND VIBRATO

(PA/281)

R 11 + R 146    Q 11 + Q 110  
C 11 + C 126    VR 11 + VR 12  
D 11

CHASSIS

R 01 + R 04    F 01  
C 01            P 01 + P 02  
VR 01 + VR 02    Q 01





