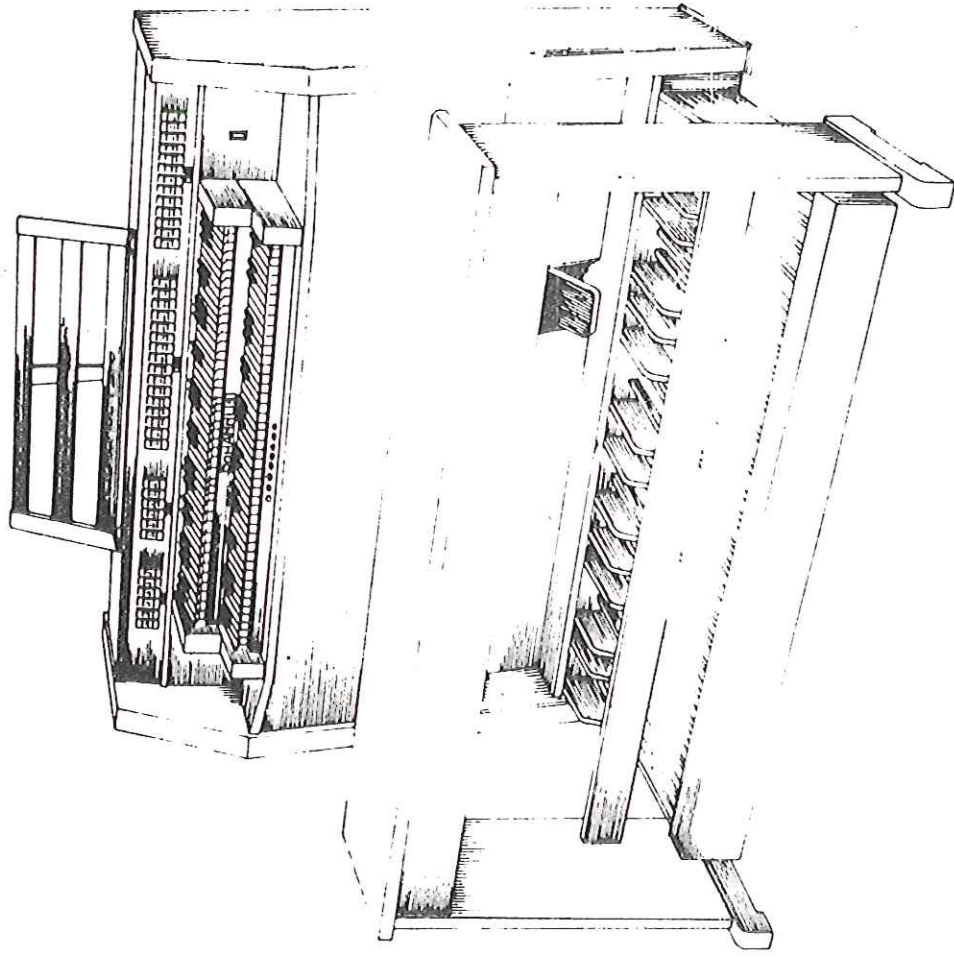
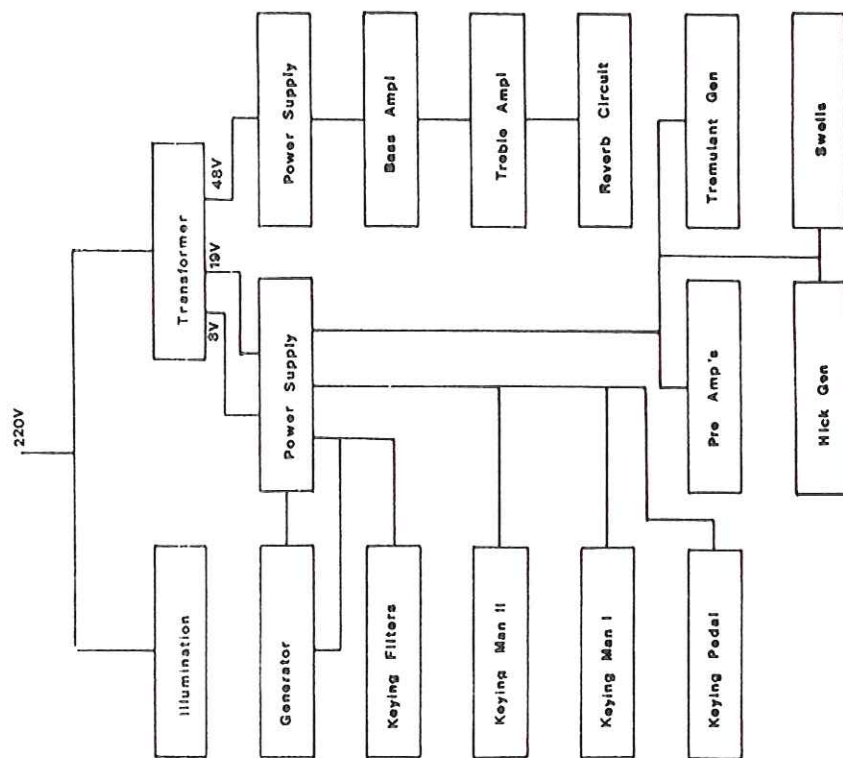
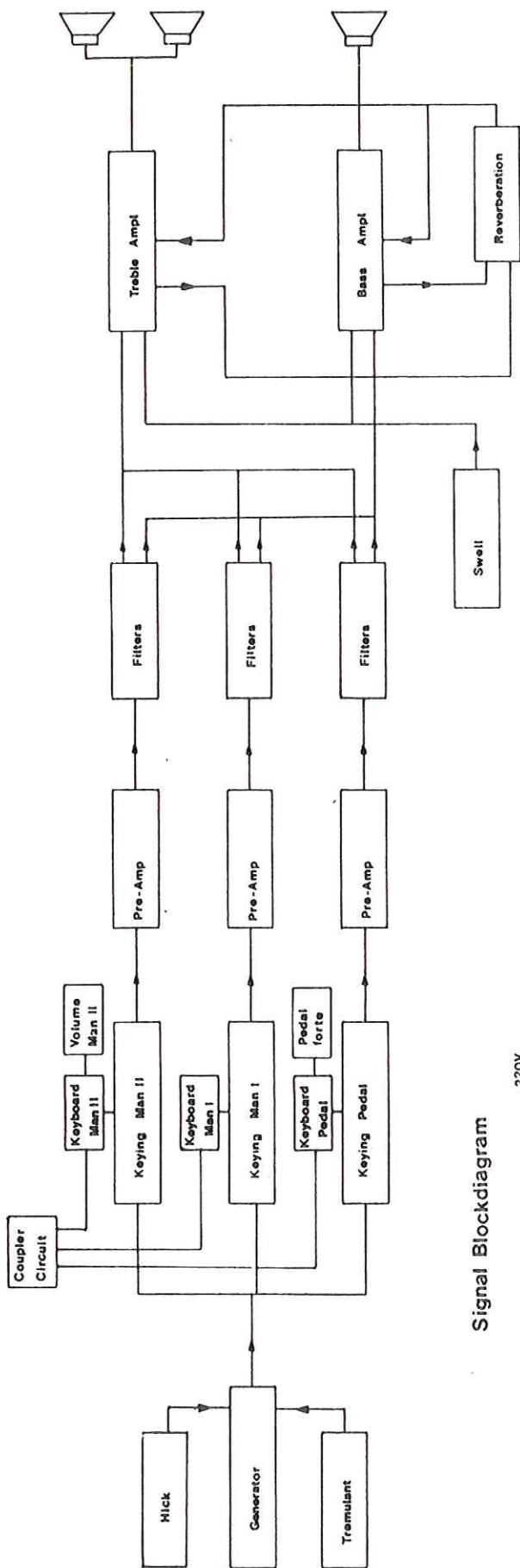


SCHEMATIC DIAGRAMS
Opus 15



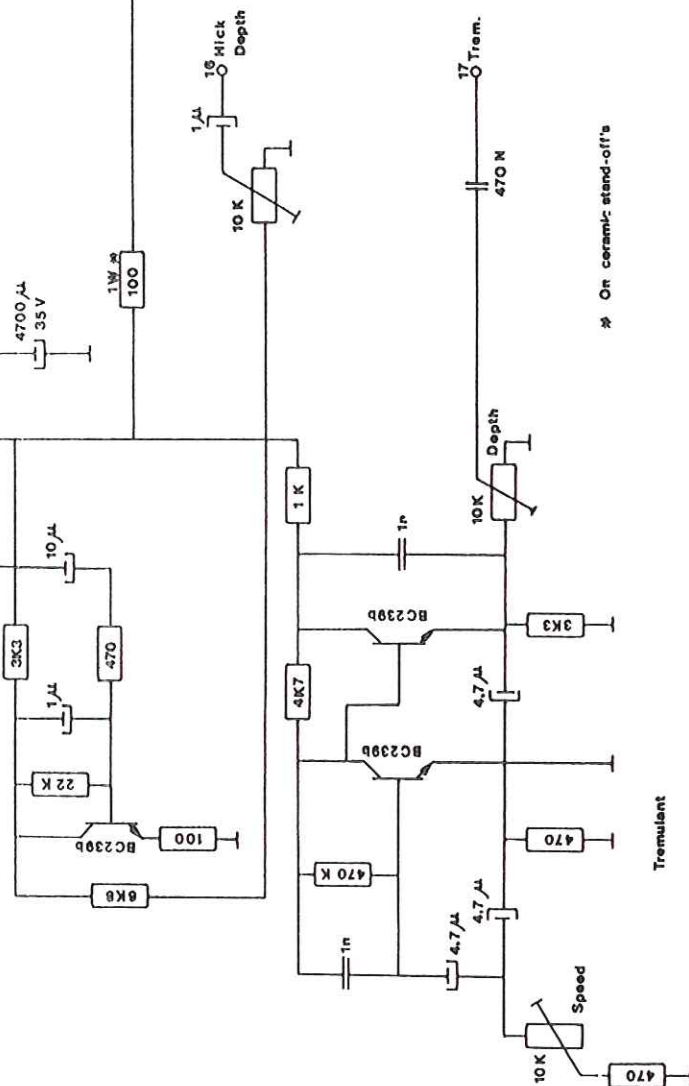
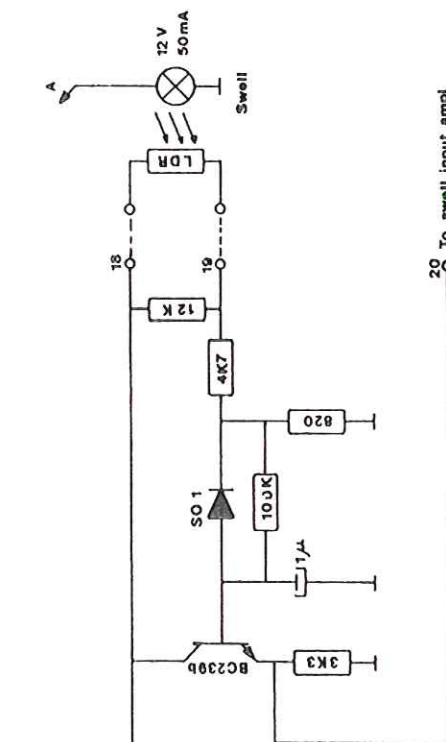
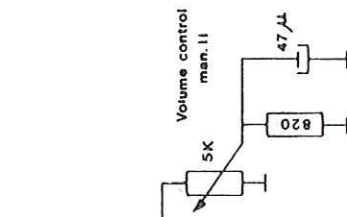
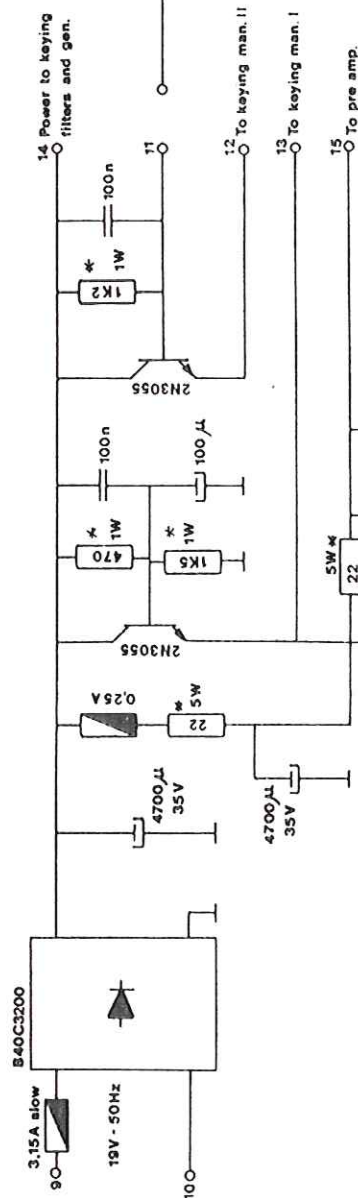
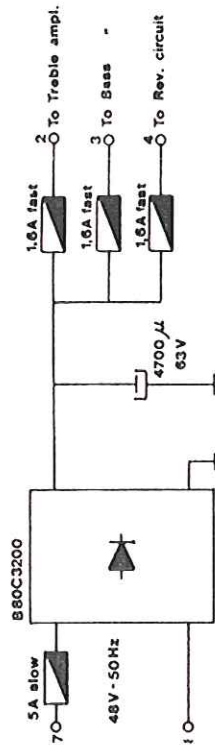
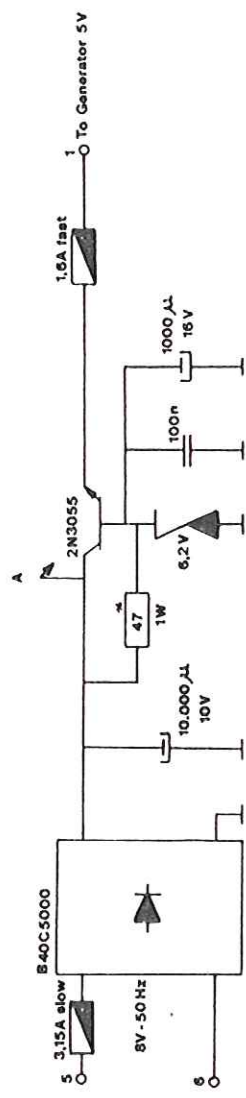
JOHANNES



Power Blockdiagram

SIGNAL AND POWER BLOCKDIAGRAM

Drawn	Date	Modified	Date	JOHANNUS ORGAN OPUS 15
P. D.	28-8-78			
DESIGN				
J. Versteeg				
copyright:				
J. VERSTEEGT		JOHANNUS ORGELBOUW b.v.		page: 1
		norstraat 28 6716 AH EDE HOLLAND Tel. 08380-19148		

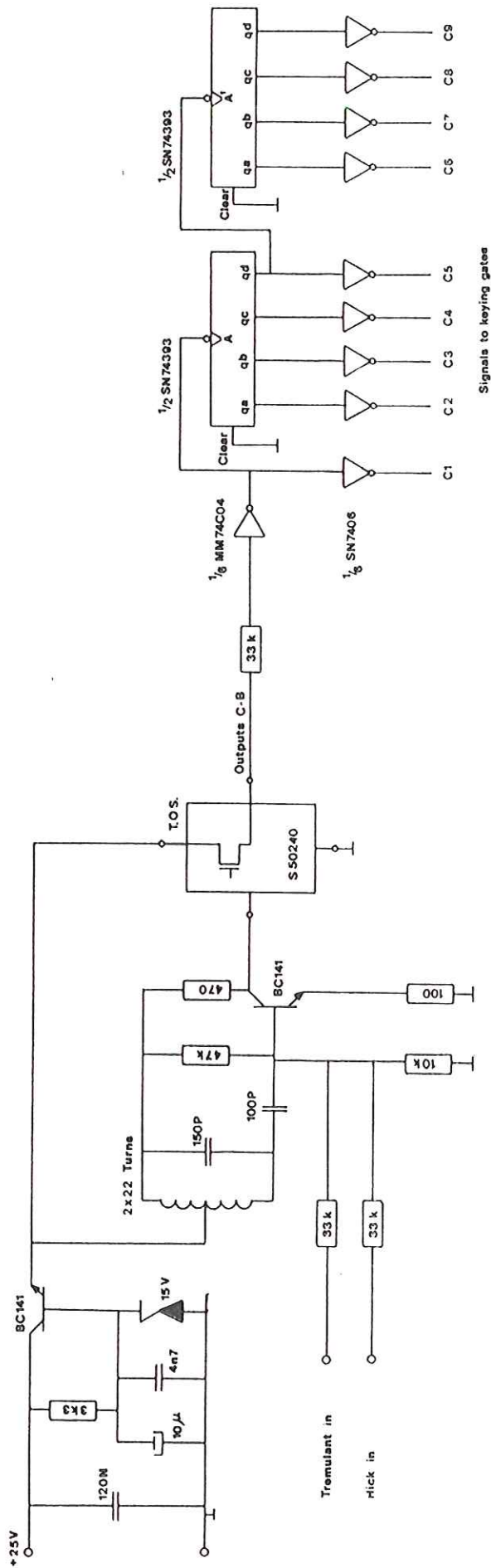


POWER SUPPLY

Drawn	Date	Modified	Date
P. D.	29-8-78		
DESIGN			
J. Versteeght			
copyright:		JOHANNUS ORGELBOUW bv	
J. VERSTEEGT			

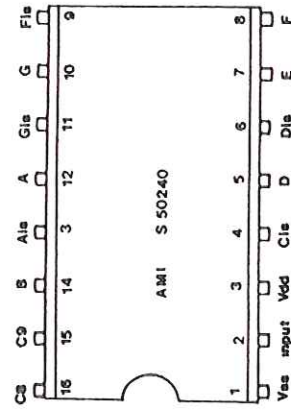
On ceramic stand-off's

Tremulant

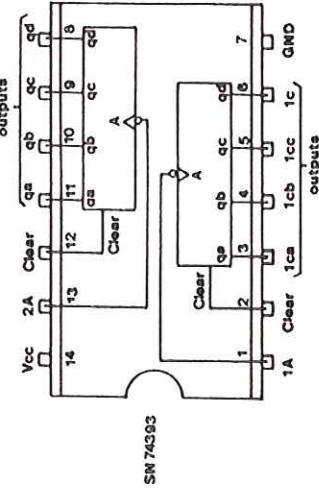


Signals to keying gates

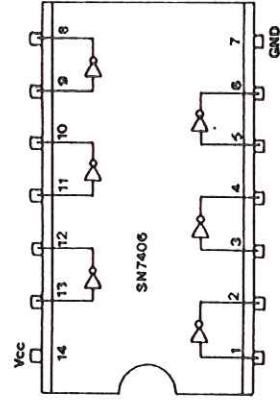
(Top View)



(Top View)



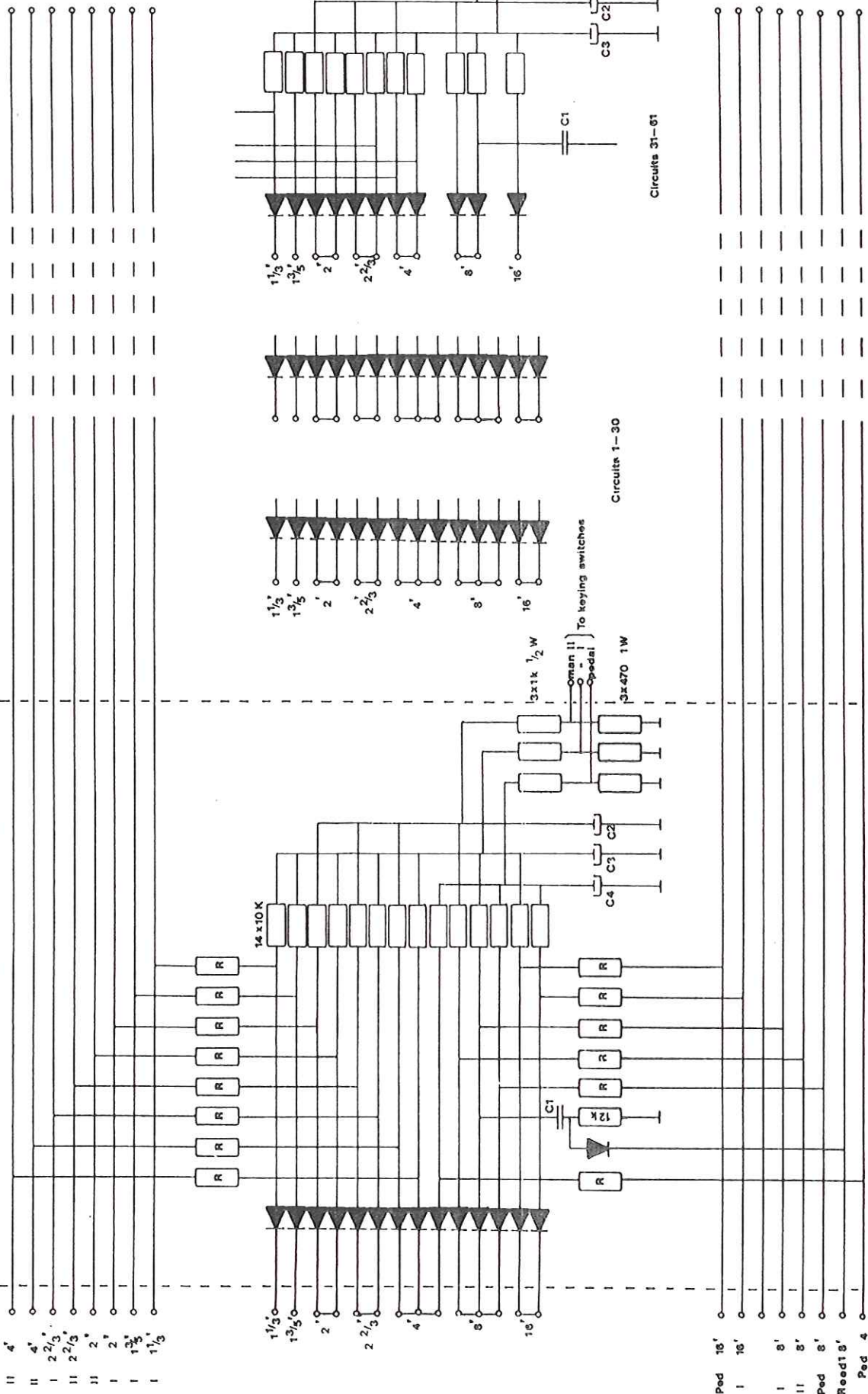
(Top View)



TONE GENERATOR

Drawn	Date	Modified	Date	JOHANNUS ORGAN
P. D.	29 8 78			OPUS 15
DESIGN				
J. Versteeg				
copyright: J. VERSTEEGT				
JOHANNUS ORGELBOUW b.v.				
Industriestraat 28 8716 AH EDE HOLLAND Tel. 08380-19148				
page: 3				

Keyboard 1

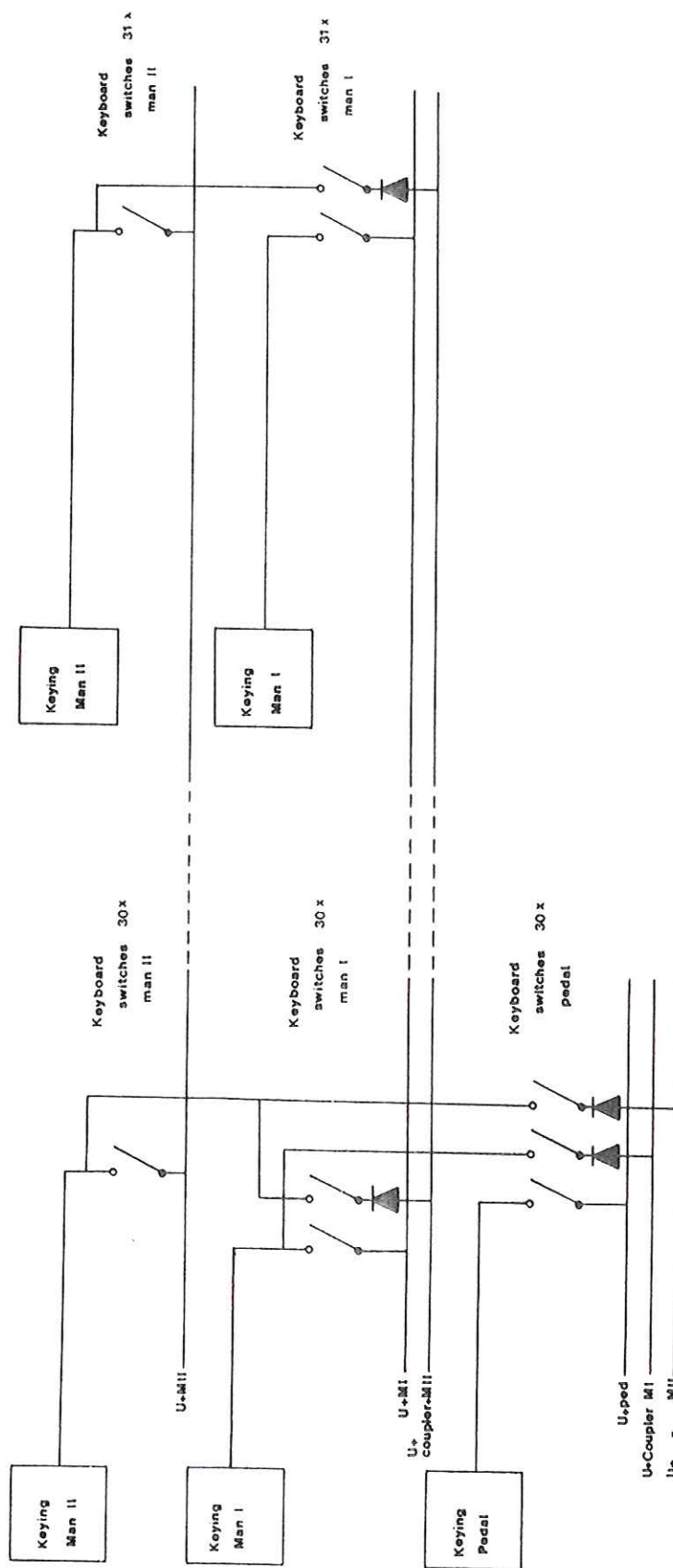


DIODE KEYING CIRCUITS

Drawn	Date	Modified	Date
P. D.	30 8 78		
DESIGN			
J. Versteeg			
copyright: JOHANNUS ORGELBOUW b.v. Tel. 08380-19148			
page: 4			

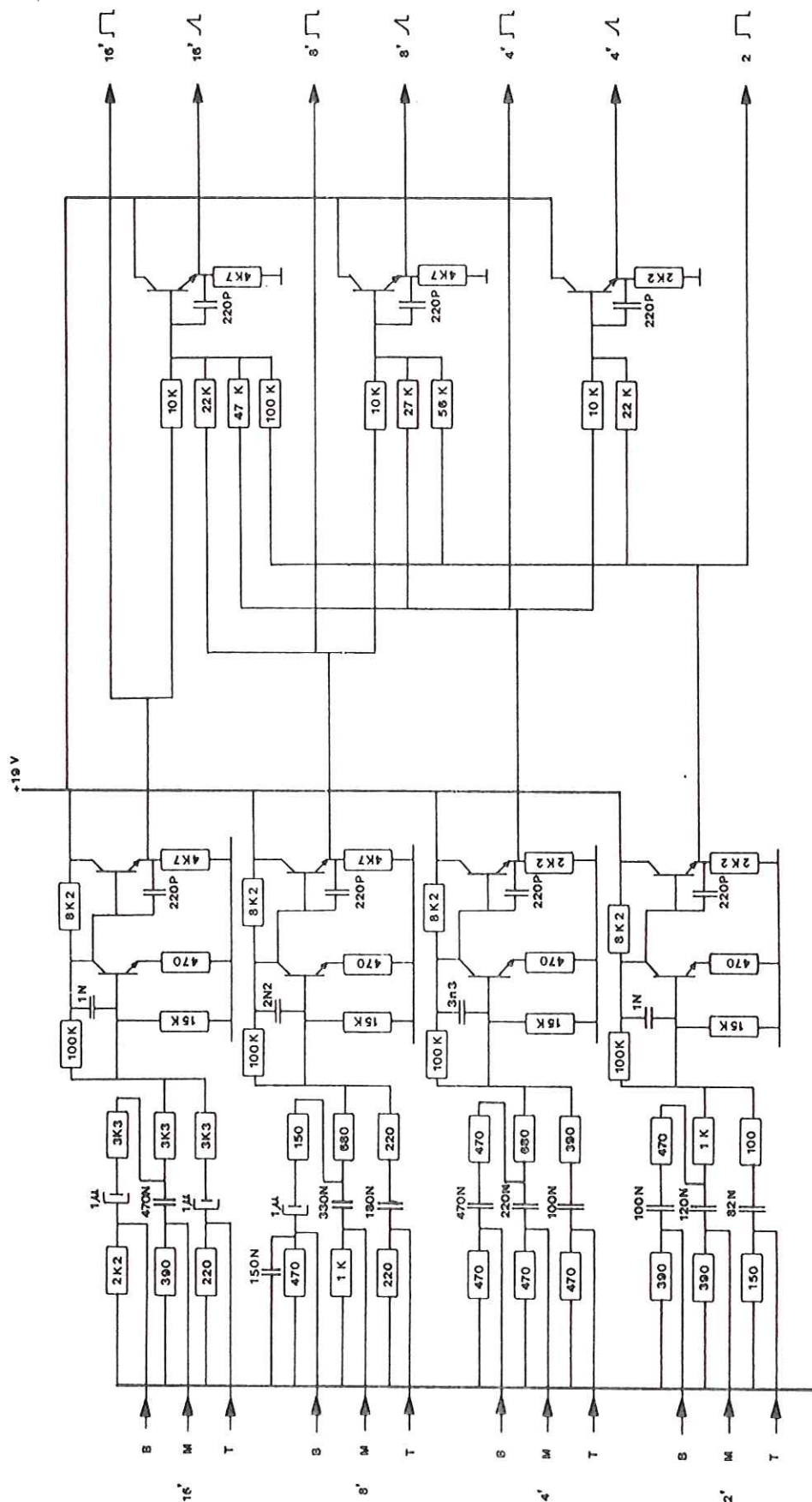
JOHANNUS
ORGAN
OPUS 15

C1	C2	C3	C4	R
1-12 33N	1-30 22μ	1-37 22μ	1-30 22μ	1-8 68 k
13-24 22N	31-41 10μ	38-47 10μ		9-16 56 k
25-36 15N	42-61 4.7μ	48-61 4.7μ		17-24 47 k
37-48 10N				25-32 39 k
49-61 8N6				33-40 33 k
				41-47 27 k
				48-54 22 k
				55-61 18 k



KEYBOARD SWITCHES & COUPLER SYSTEM

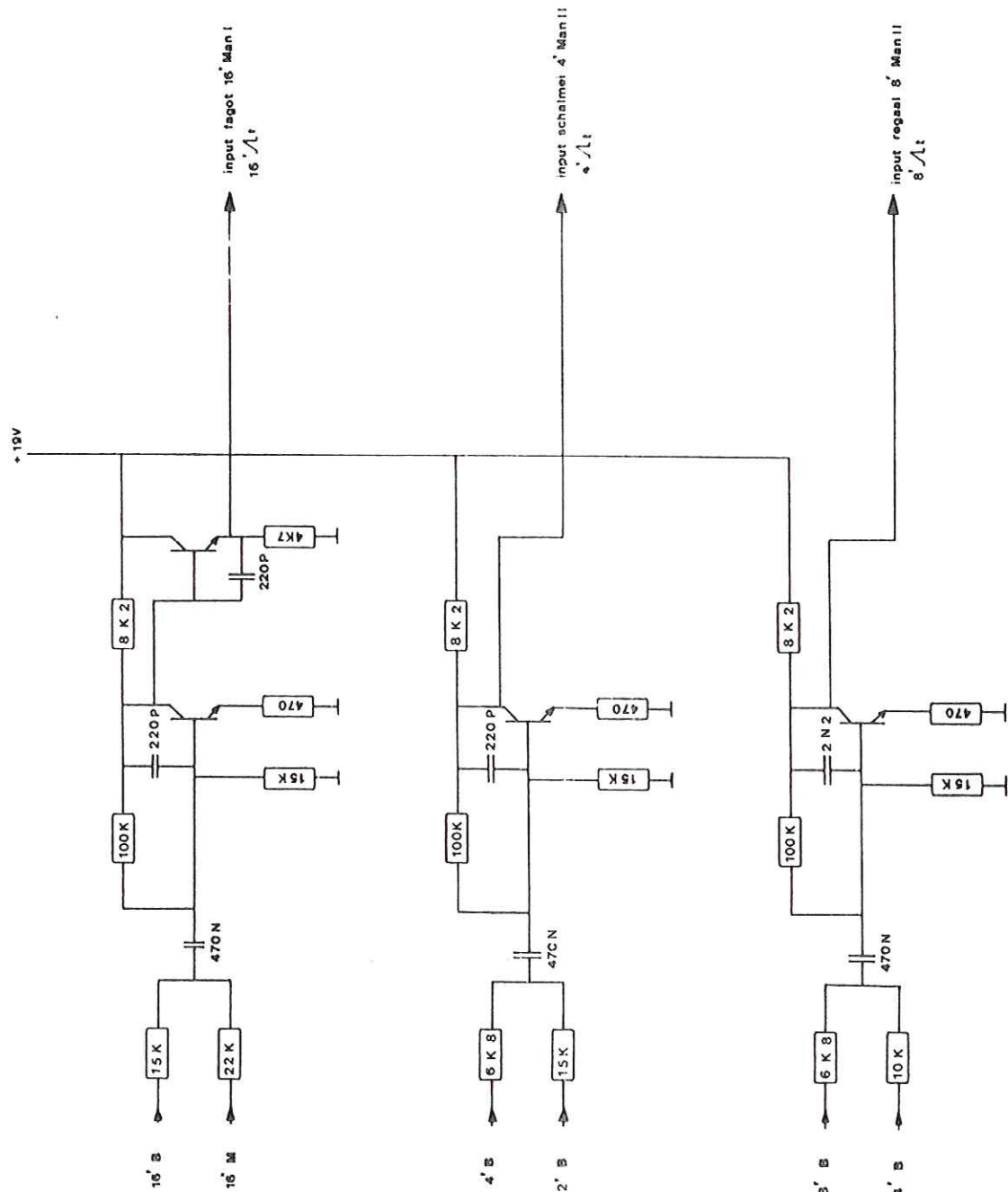
Drawn	Date	Modified	Date
P. D.	30 8 78		
DESIGN			
J. Versteegt			
copyright: J. VERSTEEGT			
JOHANNUS ORGELBOUW b.v.		JOHANNUS ORGAN OPUS 15	
morsestraat 28 6716 AH EDE HOLLAND Tel. 08380-19148		page: 5	



All transistors BC 239b

PRE-AMPS MAN 1

Drawn	Date	Modified	Date
P. D.	1 9 78		
DESIGN			
J. Versteeg			
copyright: JOHANNUS ORGELBOUW b.v. JOHANNUS ORGAN OPUS 15			
morsestraat 28 6716 AH EDE HOLLAND Tel. 08380-191-48			
page: 6			

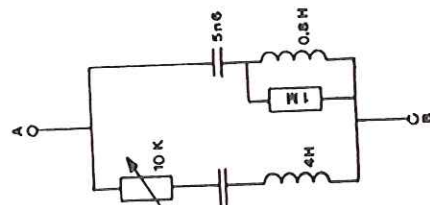
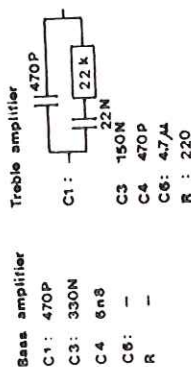
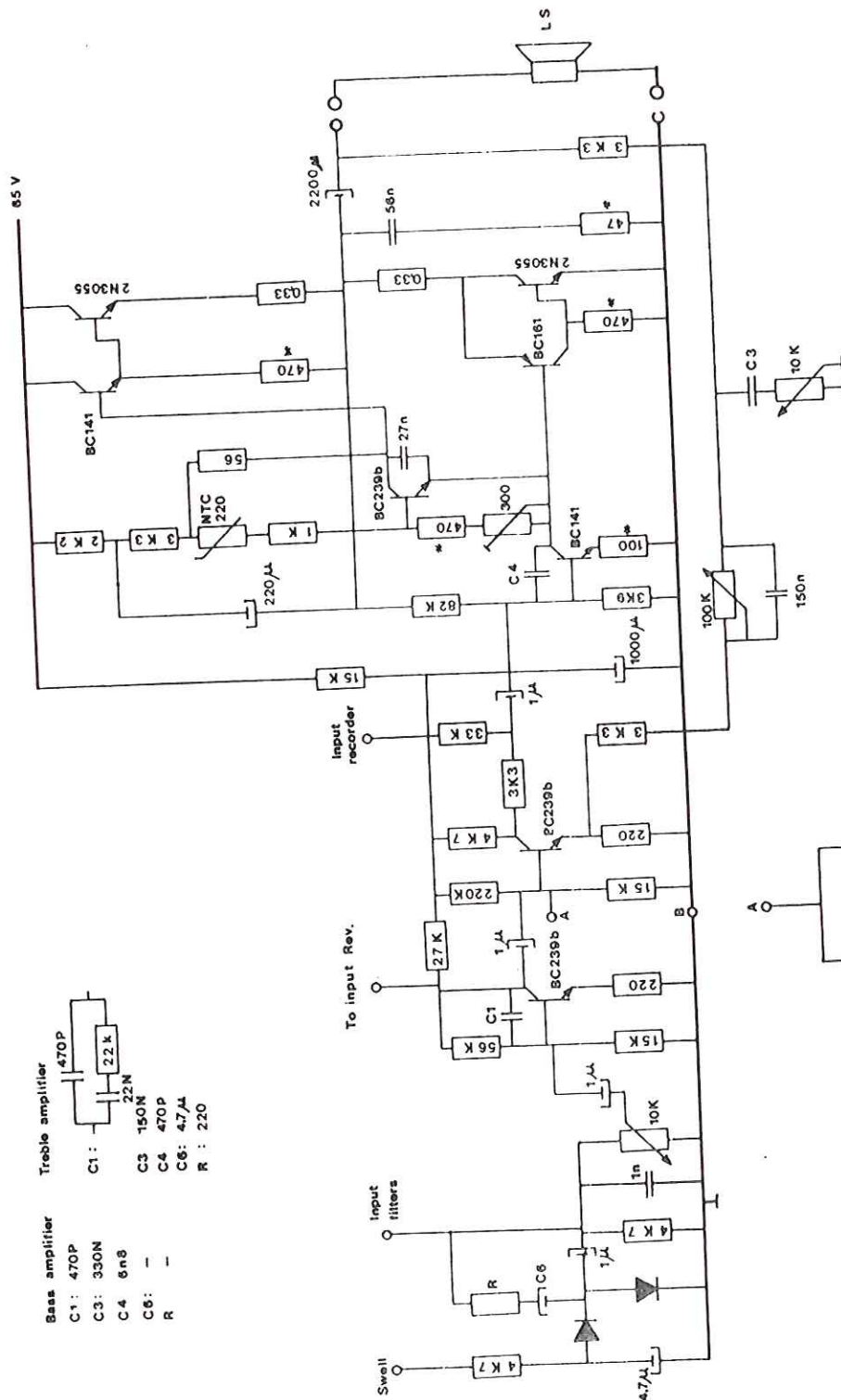


From
Keying

PRE AMPS REED CIRCUIT

Drawn	Date	Modified	Date
P. D.	31-8-78		
DESIGN	J. Versteeg		
copyright:	J. VERSTEEGT		
	JOHANNUS ORGELBOUW b.v.		
	ROOSTRAAT 28 6718 AH EDE HOLLAND		
	Tel. 0822610142		
	page:		9

All Transistors 9C239b



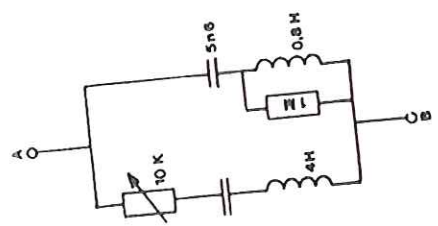
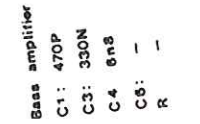
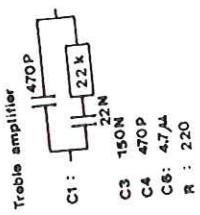
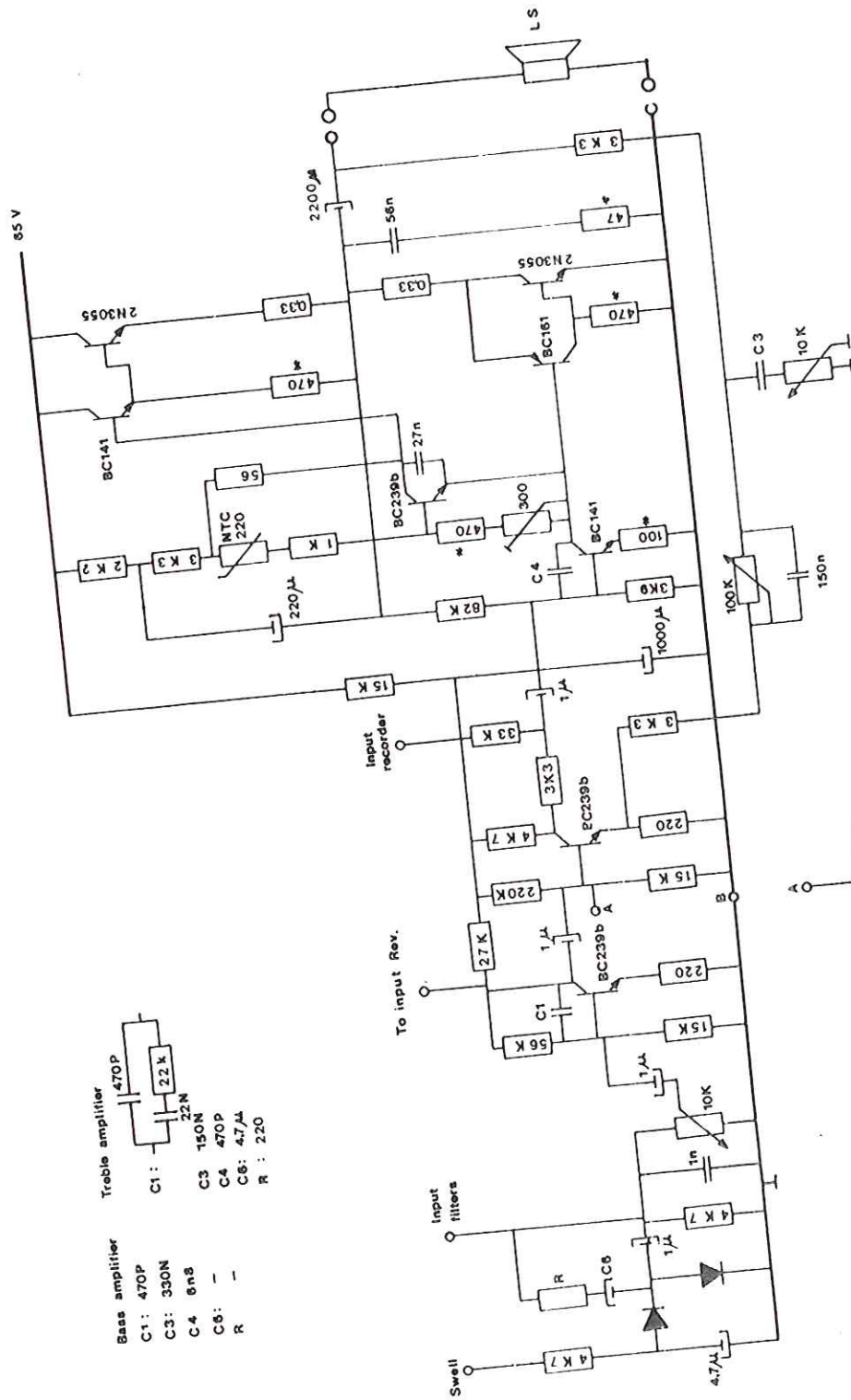
* On ceramic stand-off's

AMPL. CIRCUIT

Drawn	Date	Modified	Date
P. D.	19 9 78		
DESIGN			
J. Versteeg			
copyright: JOHANNUS ORGELBOUW b.v. Tel. 08380-19148			
page: 14			

JOHANNUS
ORGAN
OPUS 15

prostraat 28
6716 AH EDE HOLLAND
Tel. 08380-19148

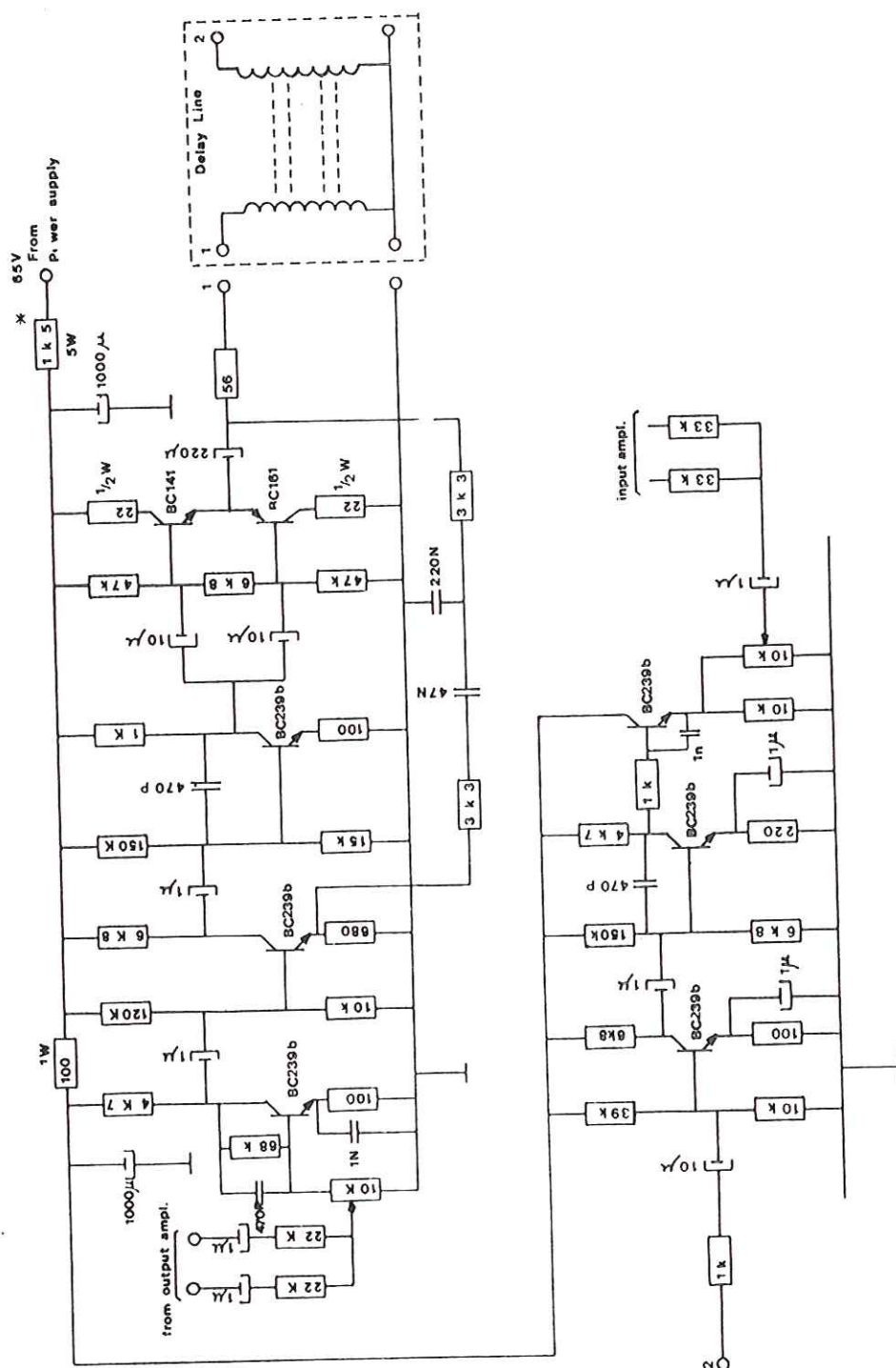


* On ceramic stand-off's

AMPL. CIRCUIT

JOHANNUS ORGAN		OPUS 15	
Drawn	Date	Modified	Date
P. D.	19 9 78		
DESIGN		copyright: J. VERSTEEGT	
J. Versteegt		JOHANNUS ORGELBOUW b.v.	
morsestraat 28		Tel. 08380.19148	
6716 AH EDE HOLLAND			

JOHANNUS ORGAN



J. Versteeg†	JOHANNUS ORGELBOUW b.v.	norrastraat 28 6716 AH EDE HOLLAND Tel. 08380-19148.	page: 13
copyright:	J. VERSTEEGT		

