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S C H E M A T I C D I A G R A M S

J O H A N N U S

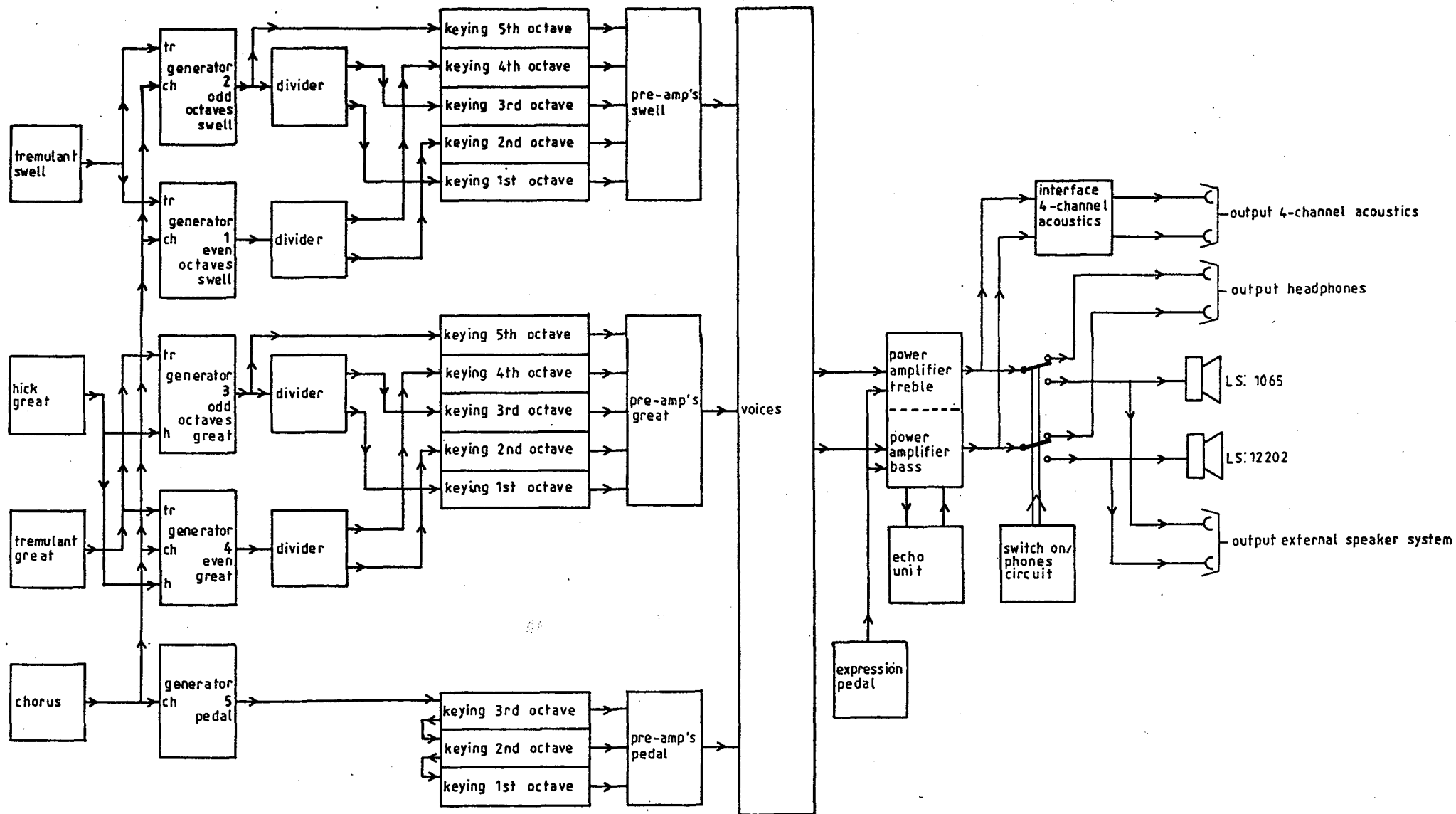
O P U S 2 2 0

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alterations reserved

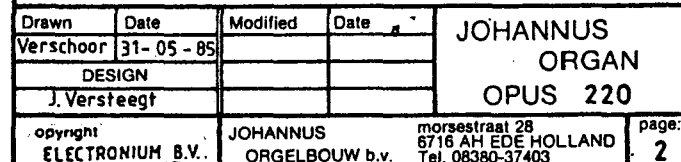
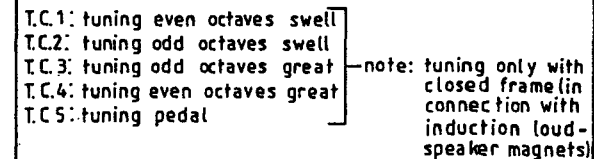
C O N T E N T S

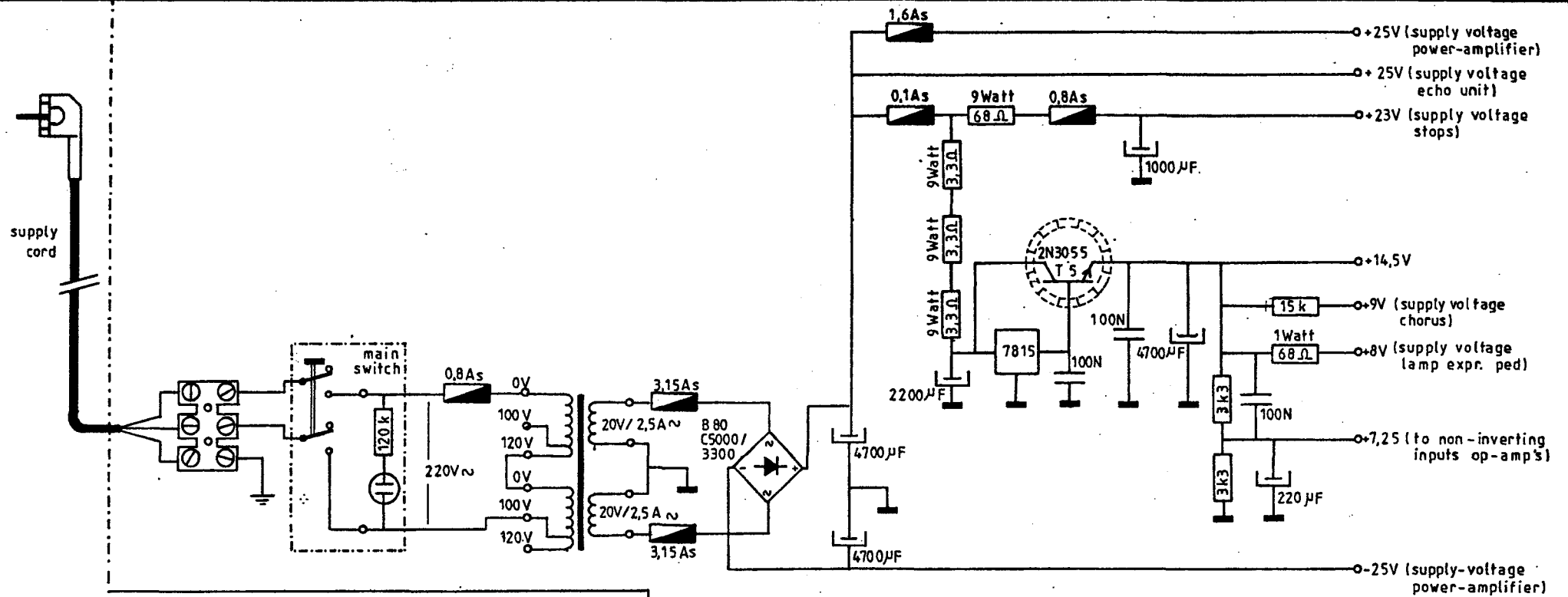
1. BLOCKDIAGRAM
2. POSITIONDIAGRAM (componentside view)
3. POWER SUPPLY
4. ACCESSORIES (tremulant; chorus; high; presets & couplers)
5. GENERATOR; KEYING & PRE-AMP'S PEDAL
6. GENERATORS & KEYING GREAT
7. PRE-AMP'S GREAT
8. GENERATORS & KEYING SWELL
9. PRE-AMP'S SWELL
10. VOICES PART I
11. VOICES PART II
12. VOICES PART III
13. POWER AMPLIFIERS
14. LOUDSPEAKER-/HEADPHONES-/SWITCH ON-CIRCUIT & INTERFACE 4-CH. ACOUSTICS
15. REVERBERATION UNIT
16. GENERAL INFORMATION SEMI-CONDUCTORS



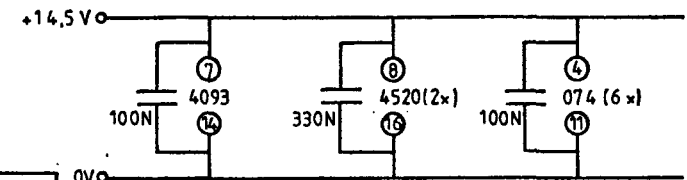
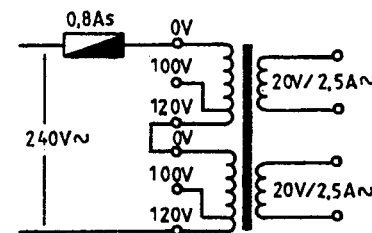
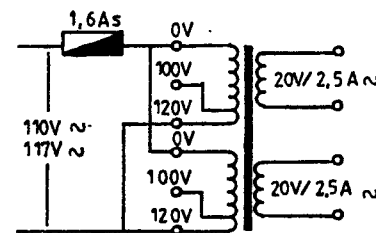
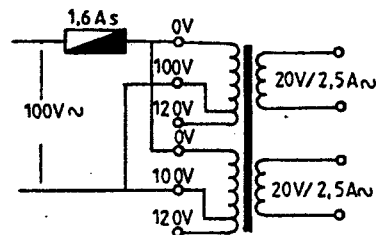
BLOCKDIAGRAM

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Verschoor	30-05-85			
DESIGN				
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NOTES: 1Watt and 9Watt resistors are mounted on ceramic stand off's (to avoid overheating p.c.-board)
7815 and 2N3055 are mounted with nuts between p.c.-board and component (to avoid overheating p.c.-board)

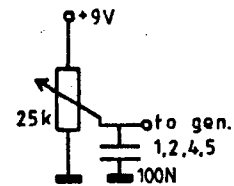
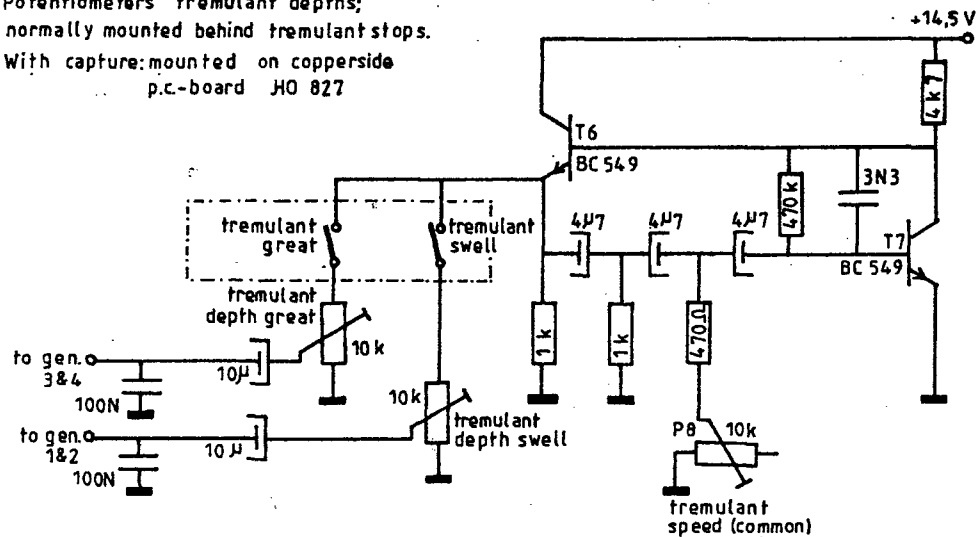


TRANSFORMER CONNECTIONS FOR COUNTRIES WITH OTHER VOLTAGES

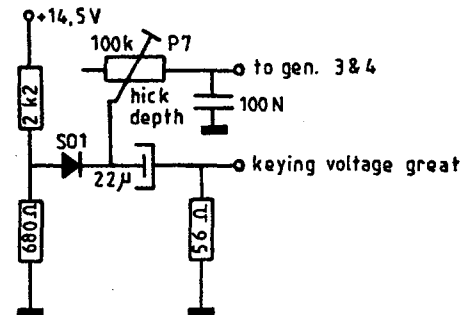
POWER SUPPLY

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Potentiometers tremulant depths;
normally mounted behind tremulant stops.
With capture: mounted on copperside
p.c.-board HO 827

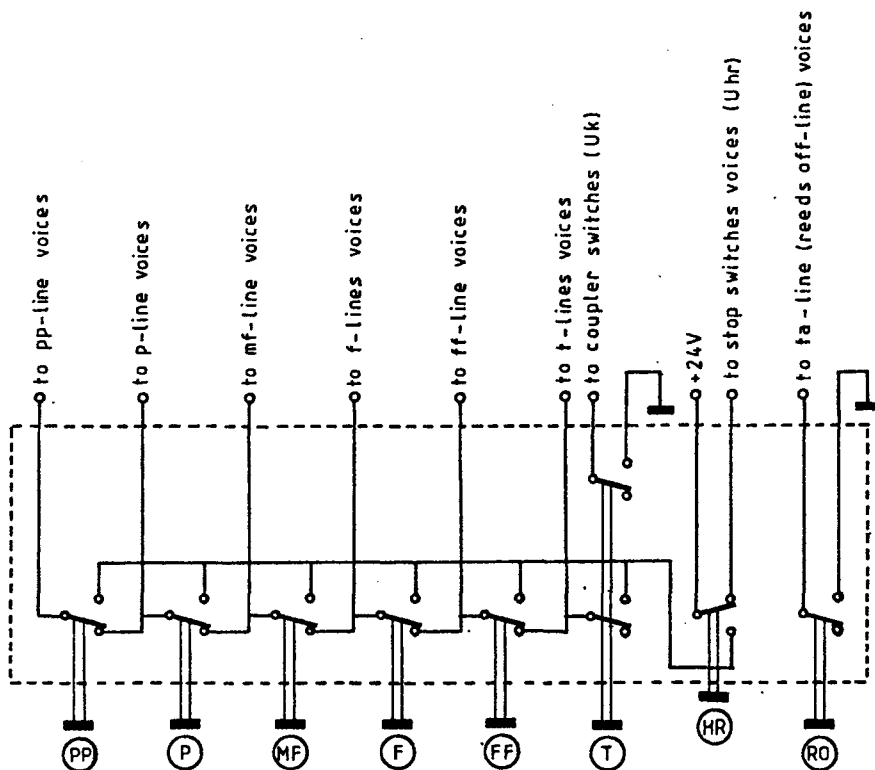


CHORUS (mounted next to the keyboard)



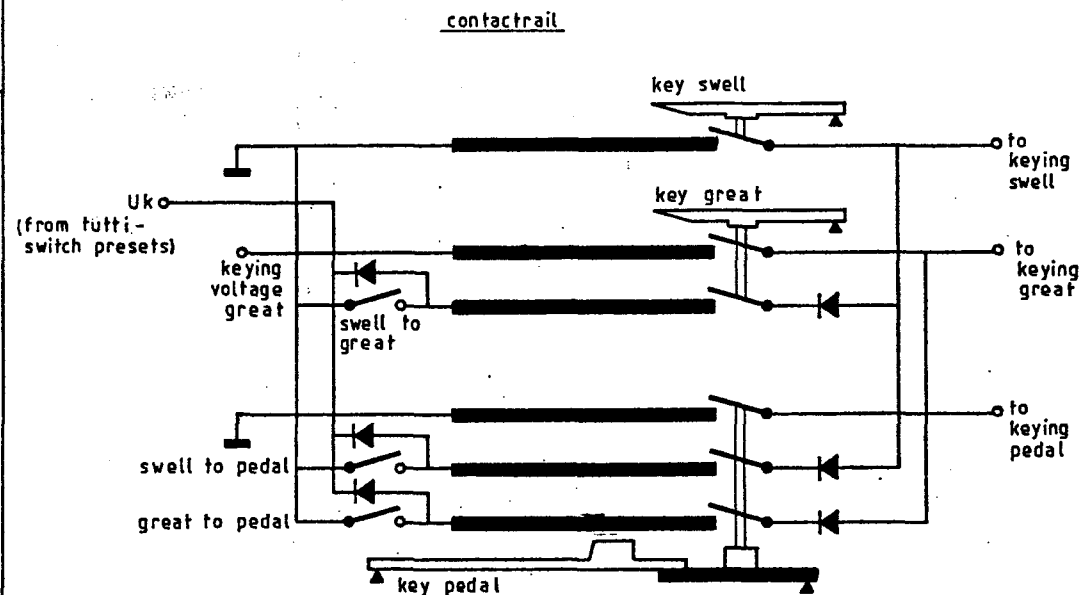
HICK CIRCUIT

PRESET SWITCH SECTION (mounted under keyboard great)



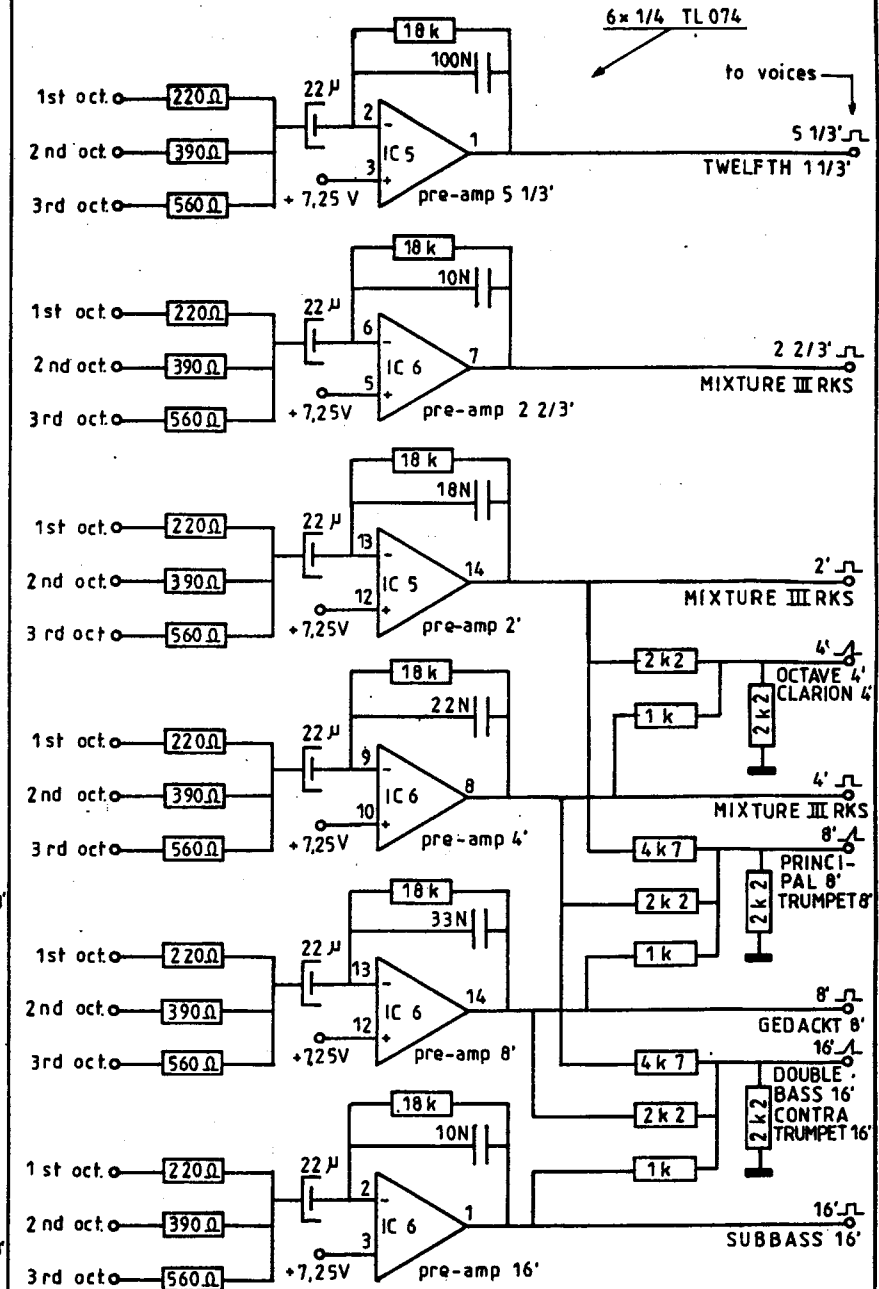
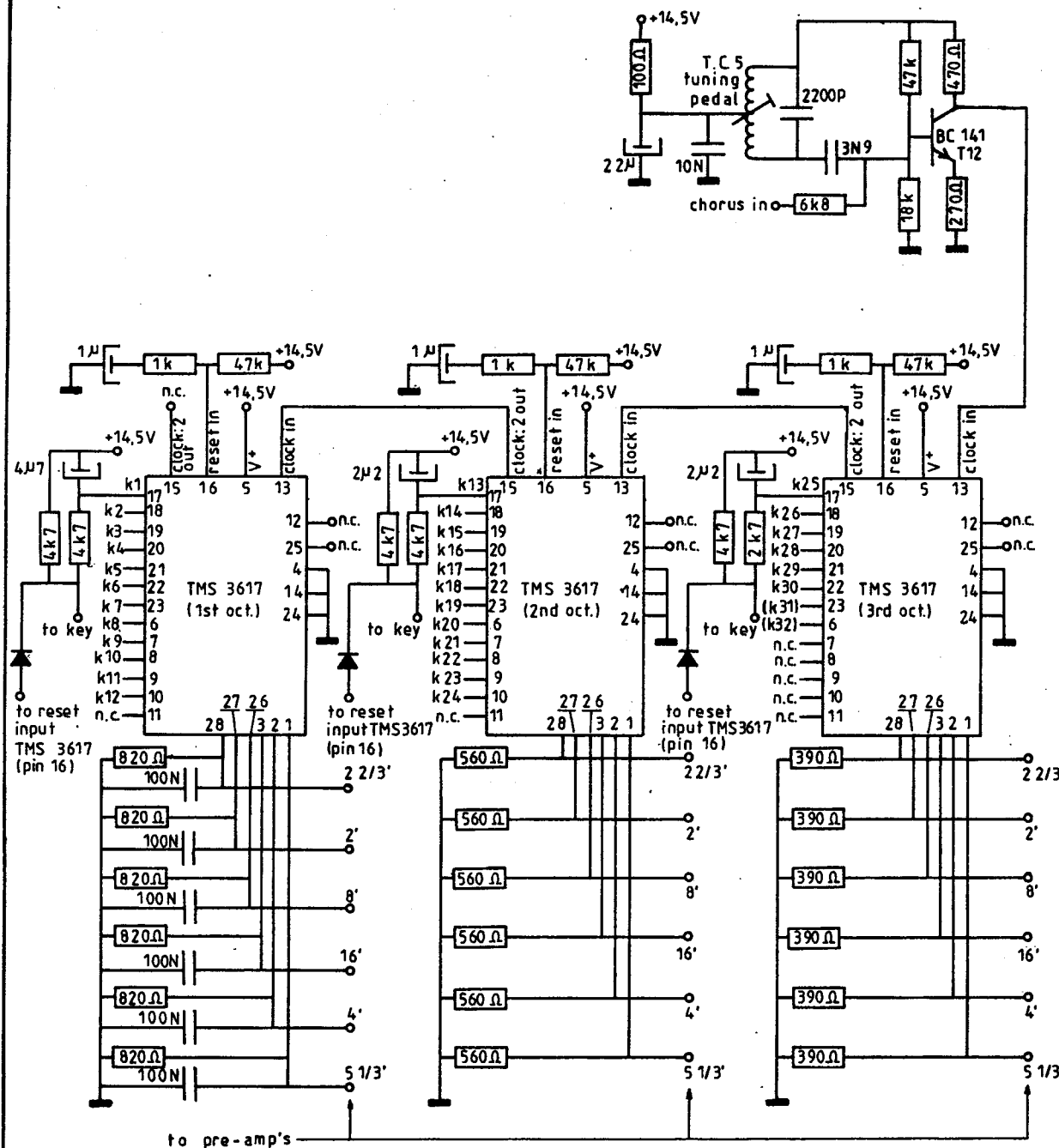
PPHR: interlocked

COUPLER SYSTEM



ACCESSORIES (tremulant; chorus; hick; presets & couplers)

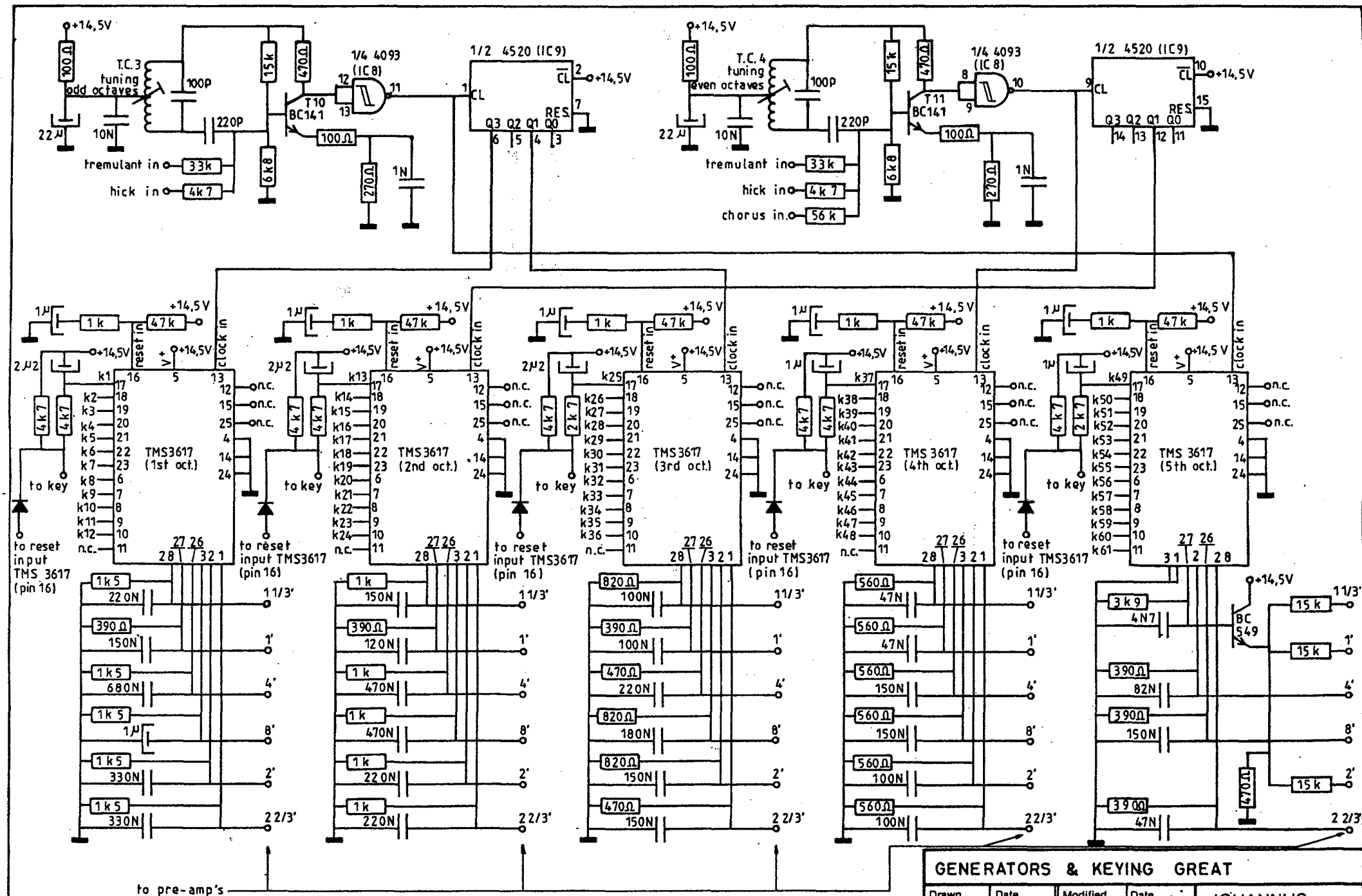
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GENERATOR; KEYING & PRE-AMPS PEDAL

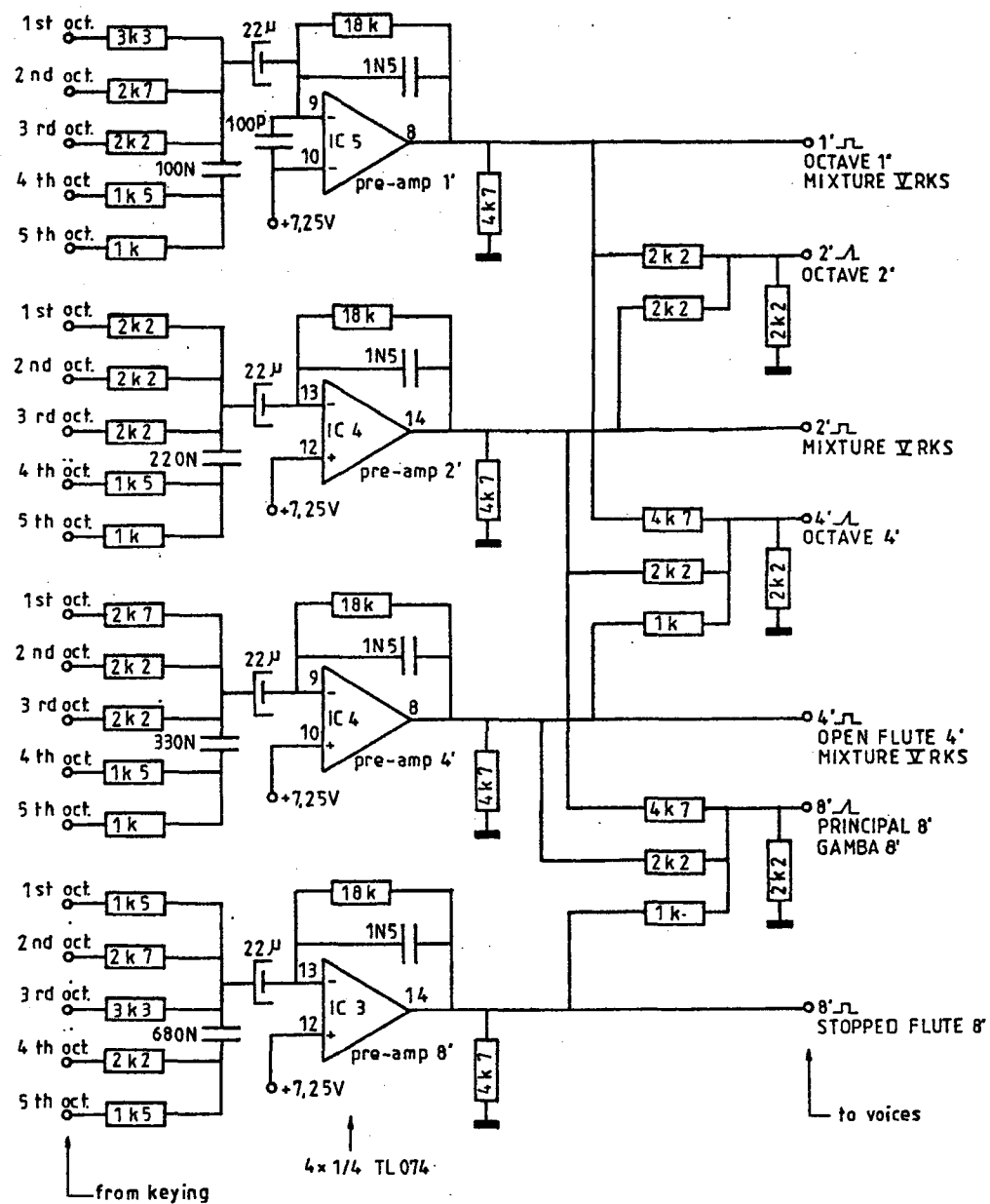
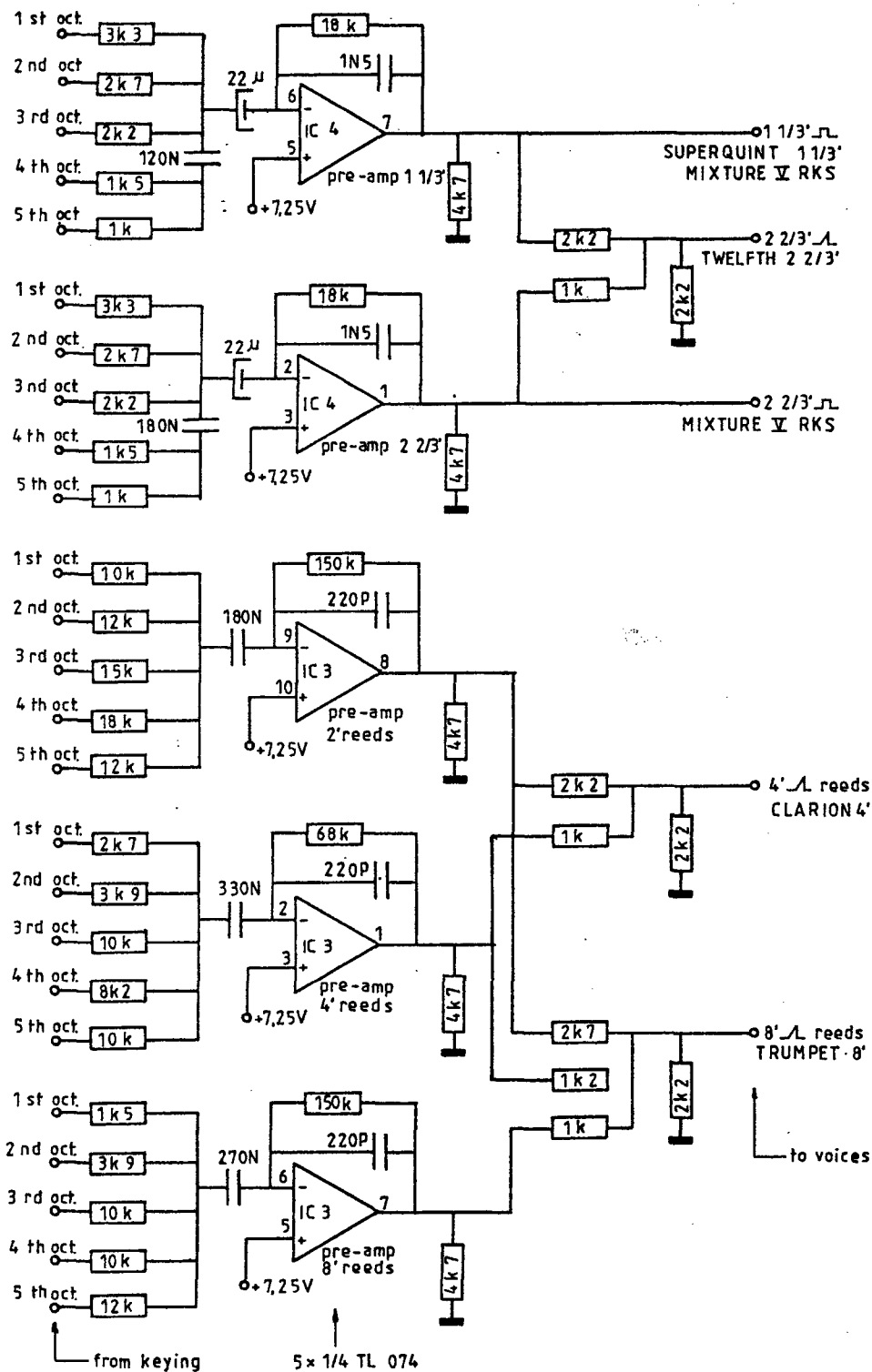
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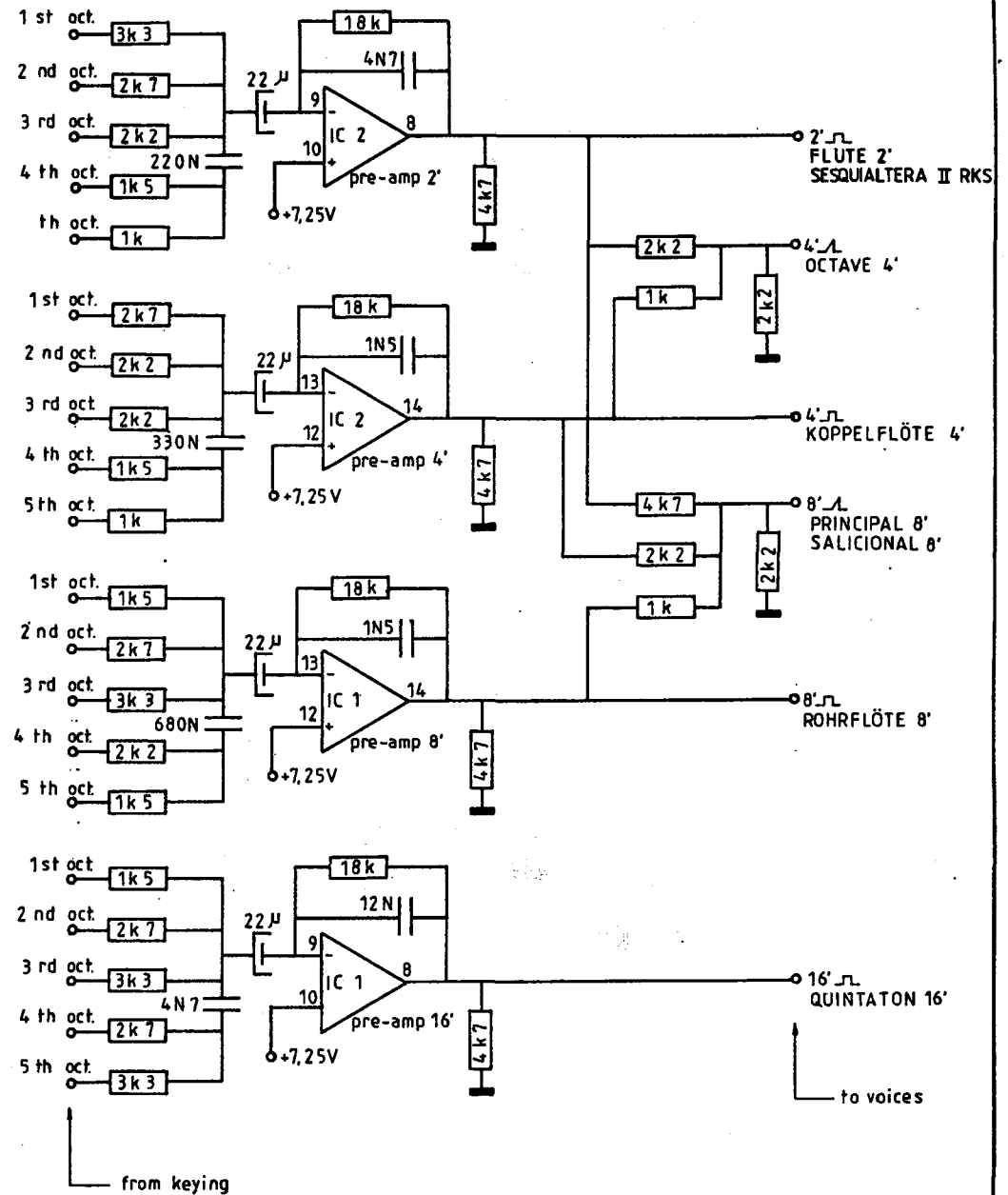
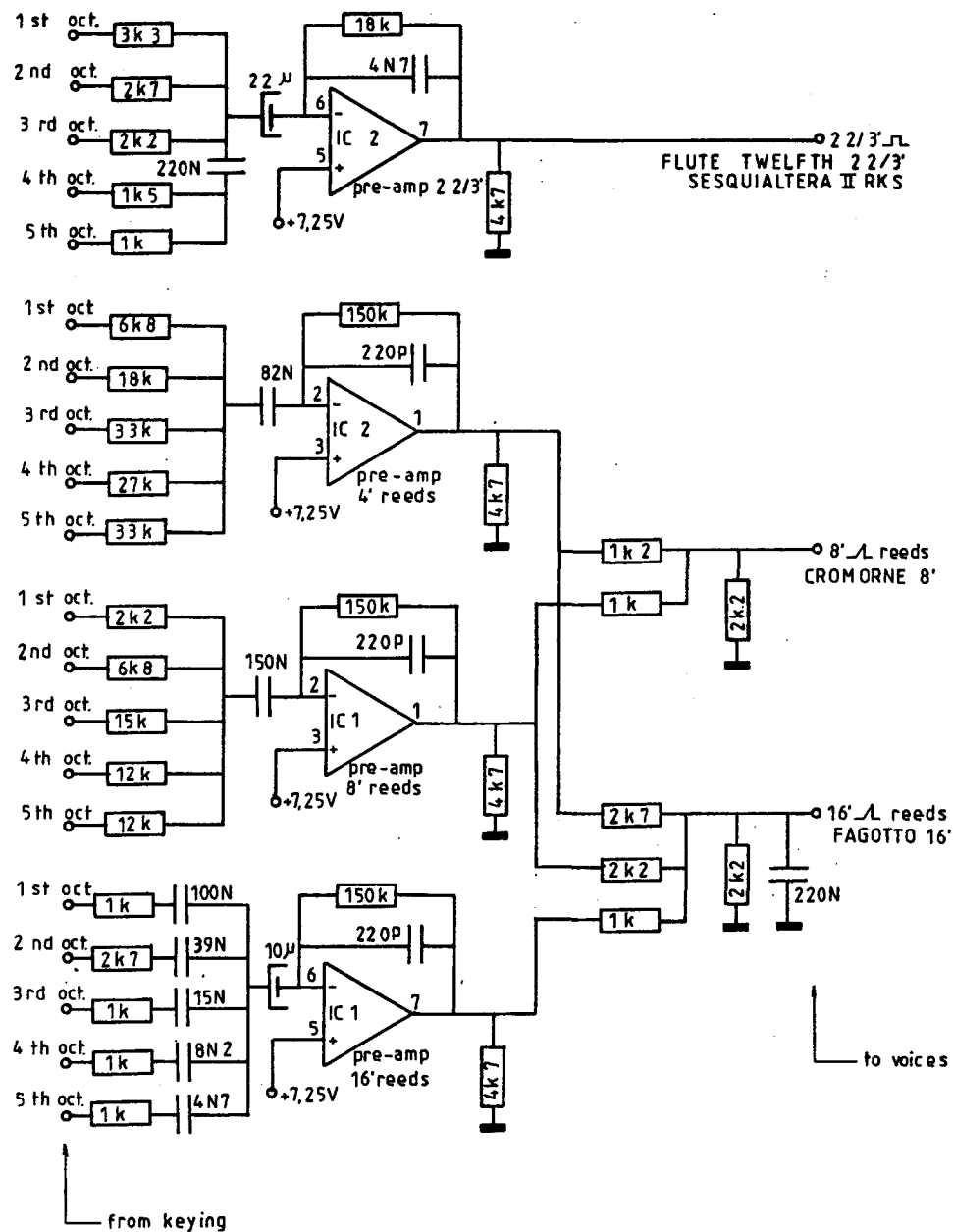
GENERATORS & KEYING GREAT

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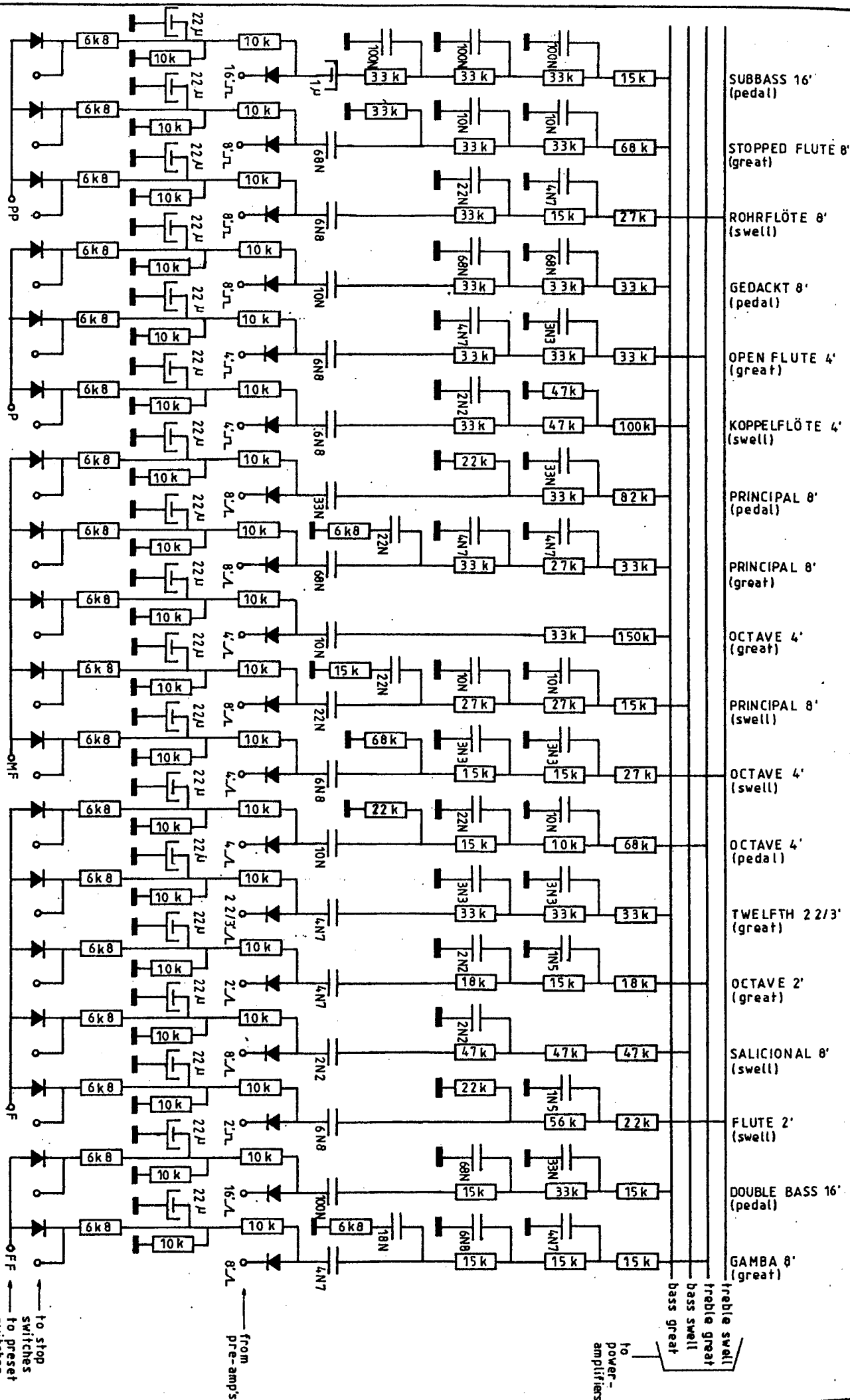
PRE AMP'S GREAT

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PRE-AMP'S SWELL

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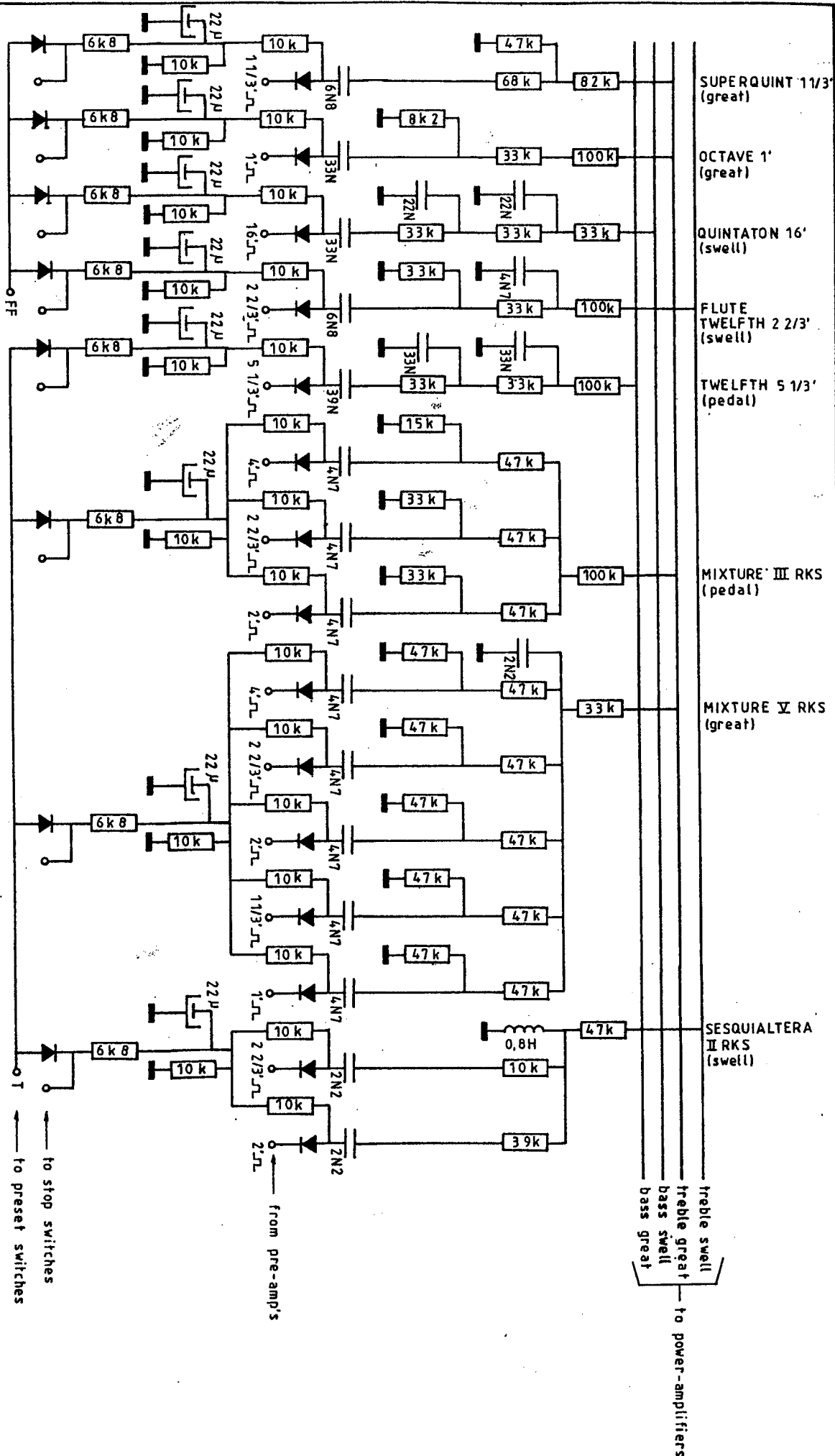
VOICES PART I

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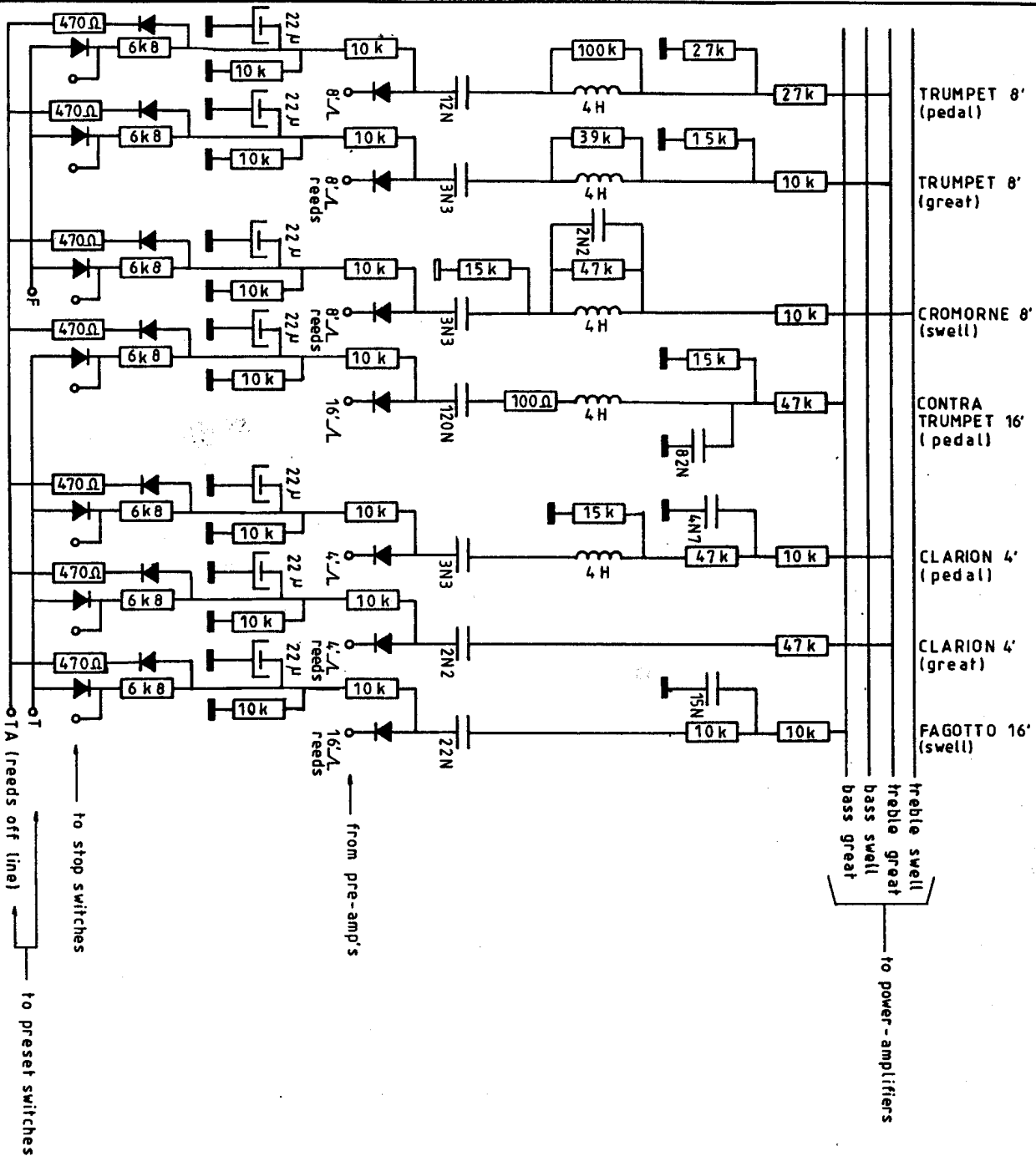
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all diodes SO 1

VOICES PART II

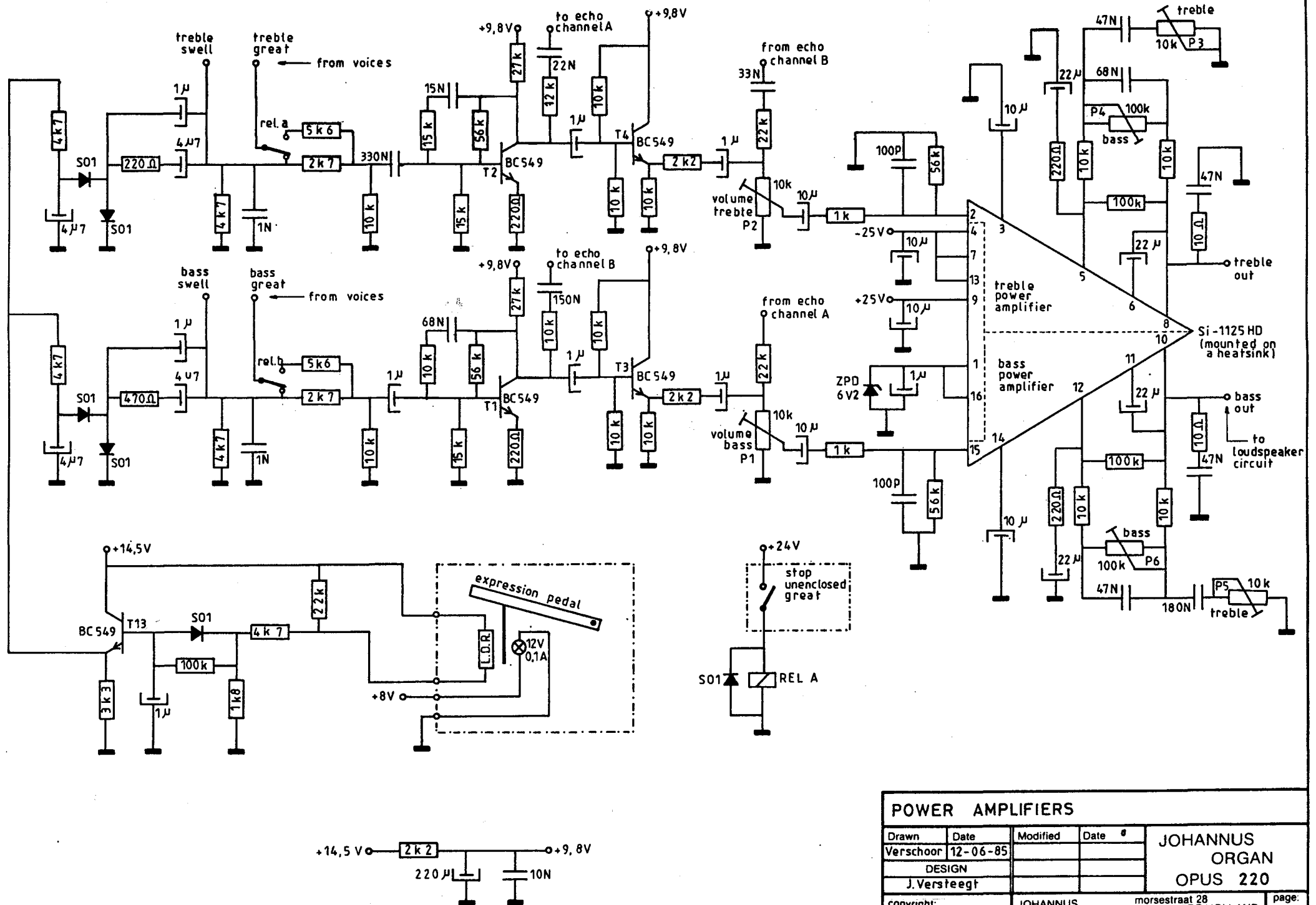
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all diodes SO 1

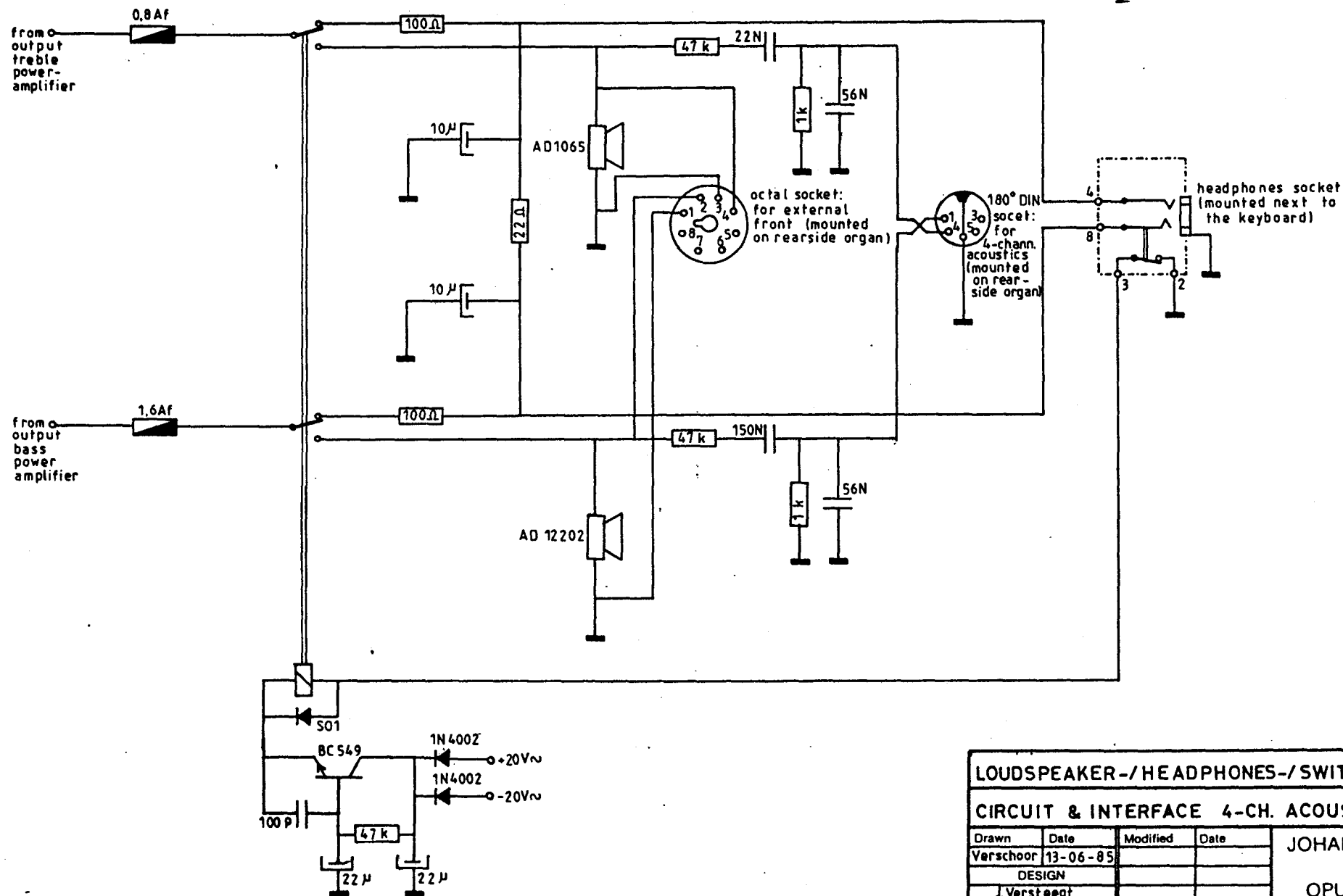
VOICES PART III

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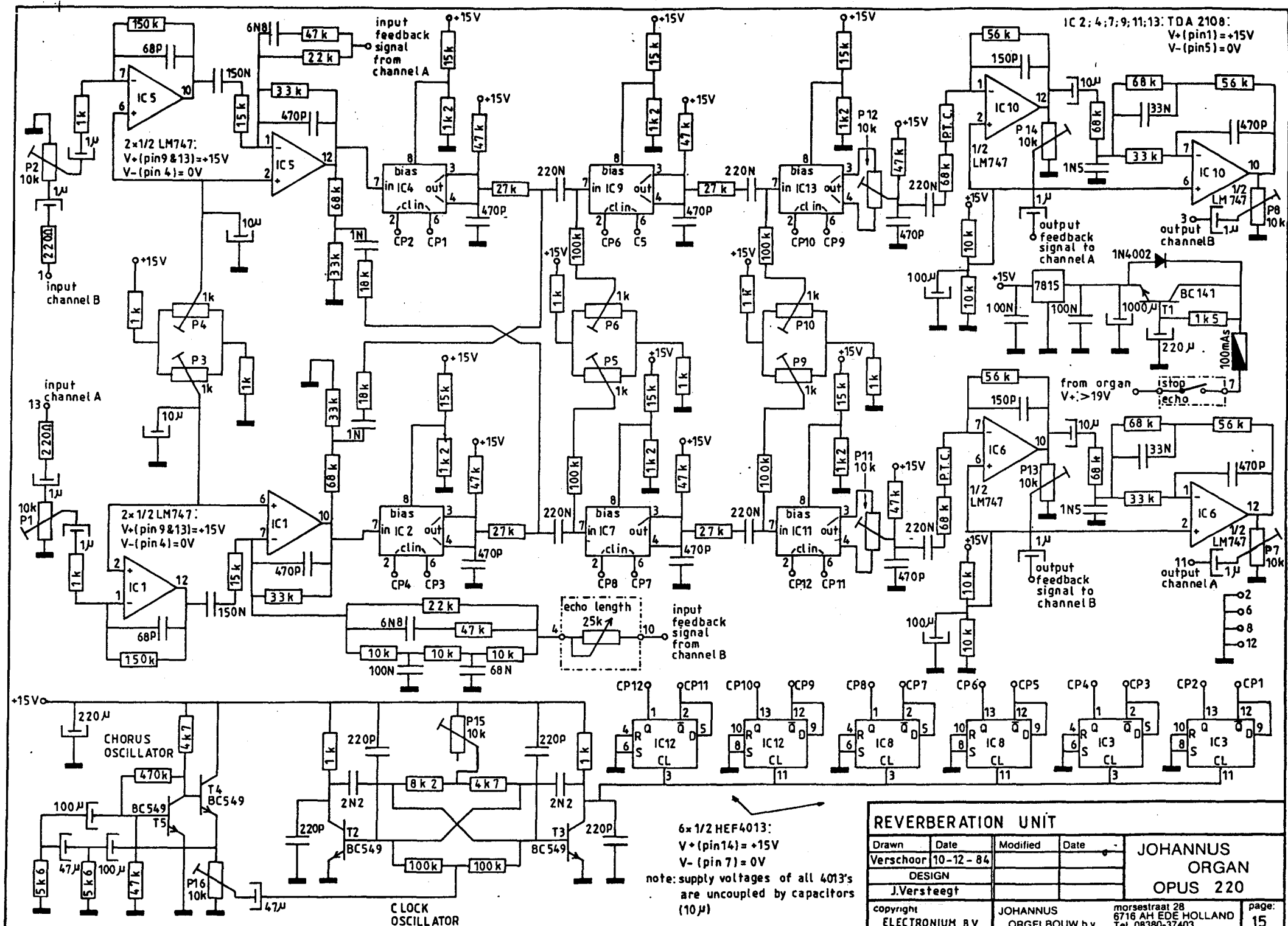


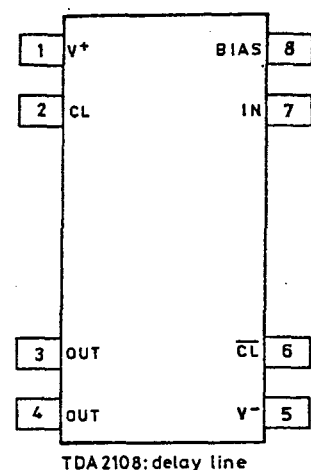
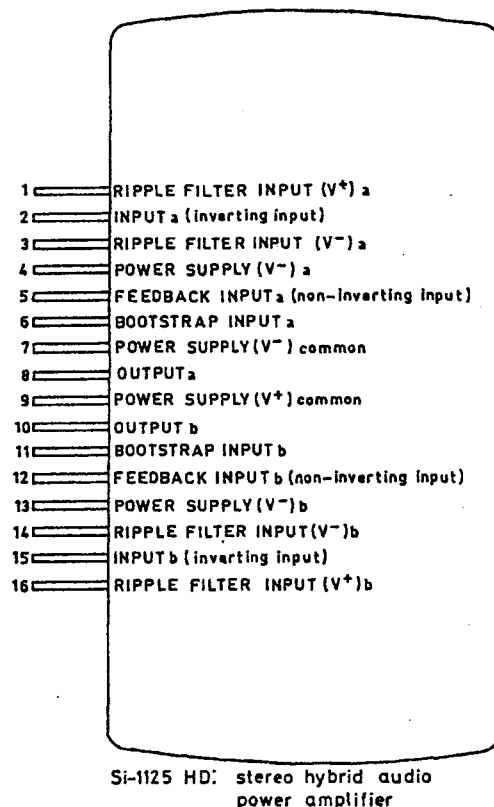
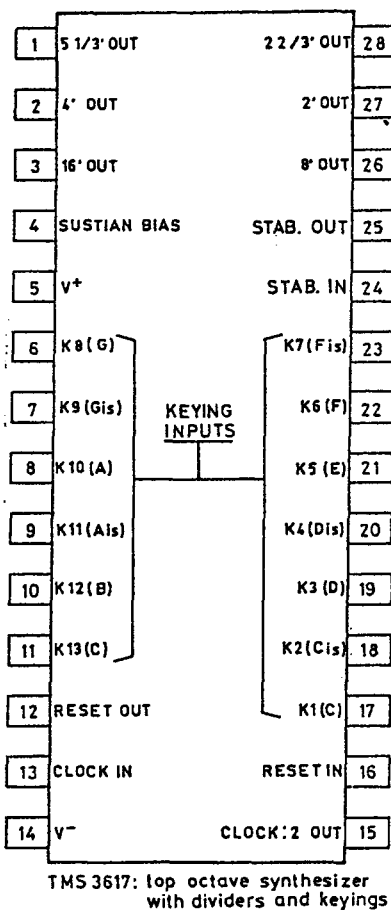
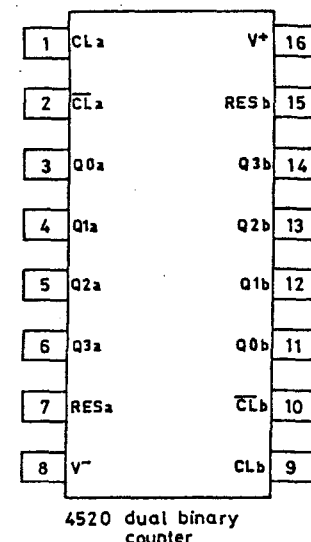
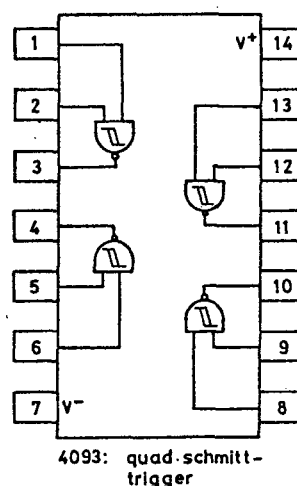
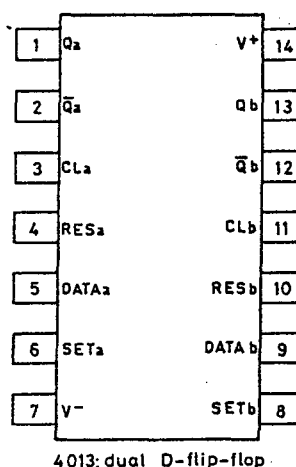
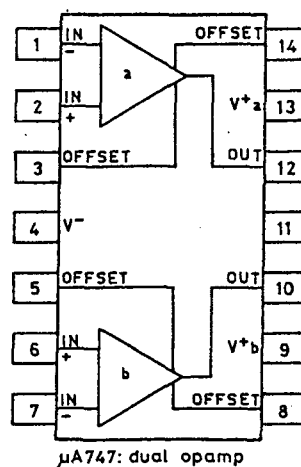
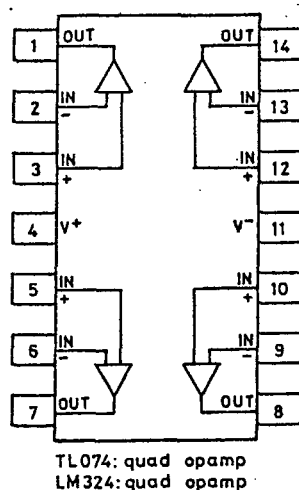
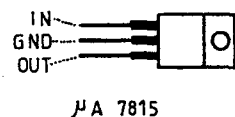
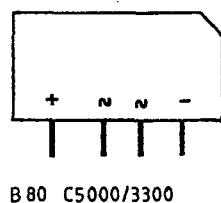
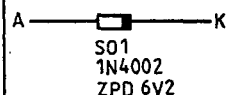
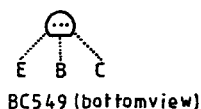
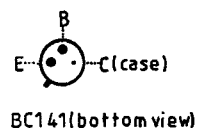
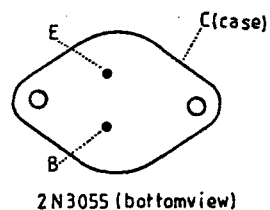
POWER AMPLIFIERS

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LOUDSPEAKER-/HEADPHONES-/SWITCH ON-			
CIRCUIT & INTERFACE 4-CH. ACOUSTICS			
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GENERAL INFORMATION SEMI-CONDUCTORS				
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				page: 16