

# JOHANNUS

*SCHEMATIC DIAGRAMS*

*OPUS 900*

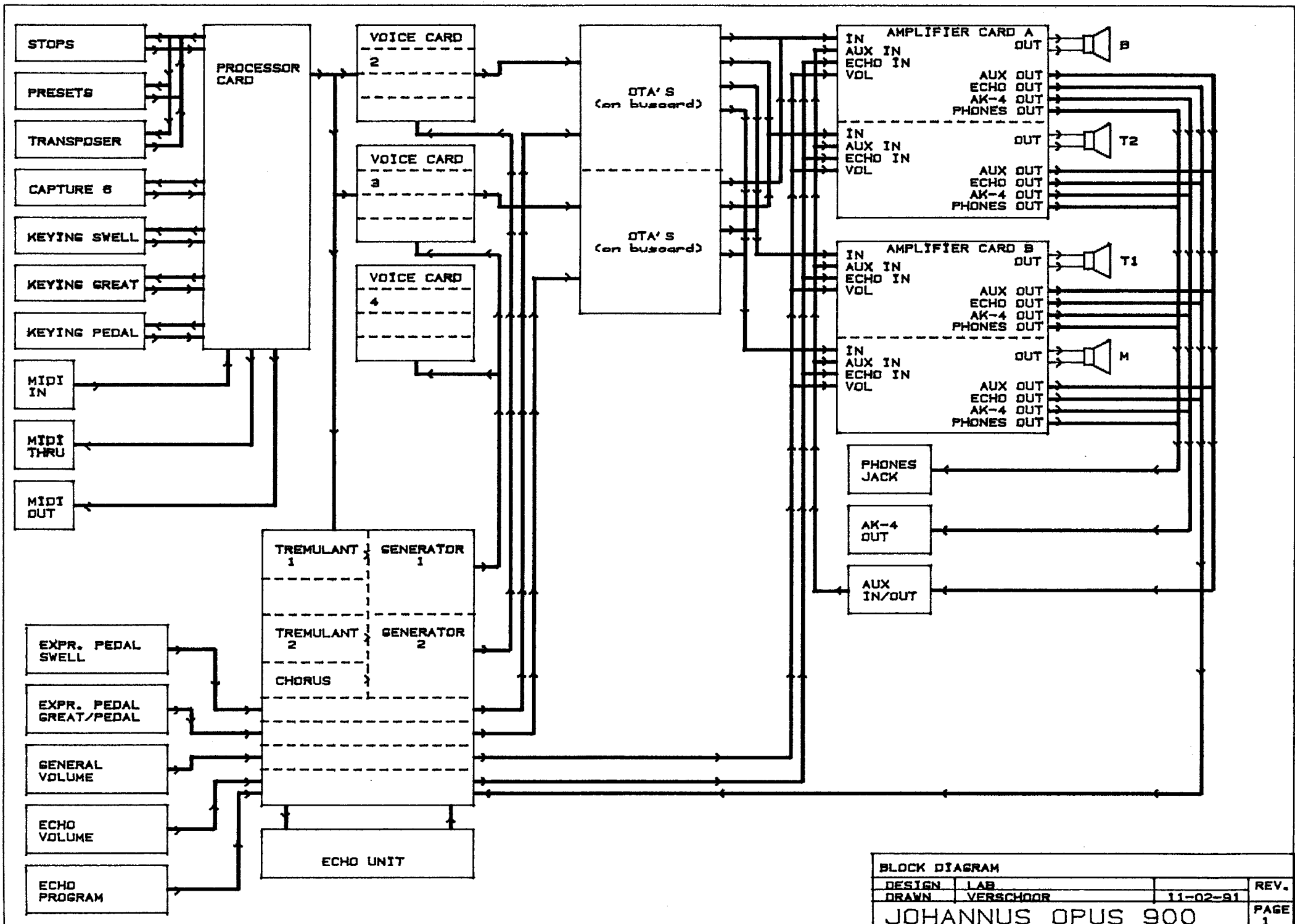
ALTERATIONS RESERVED

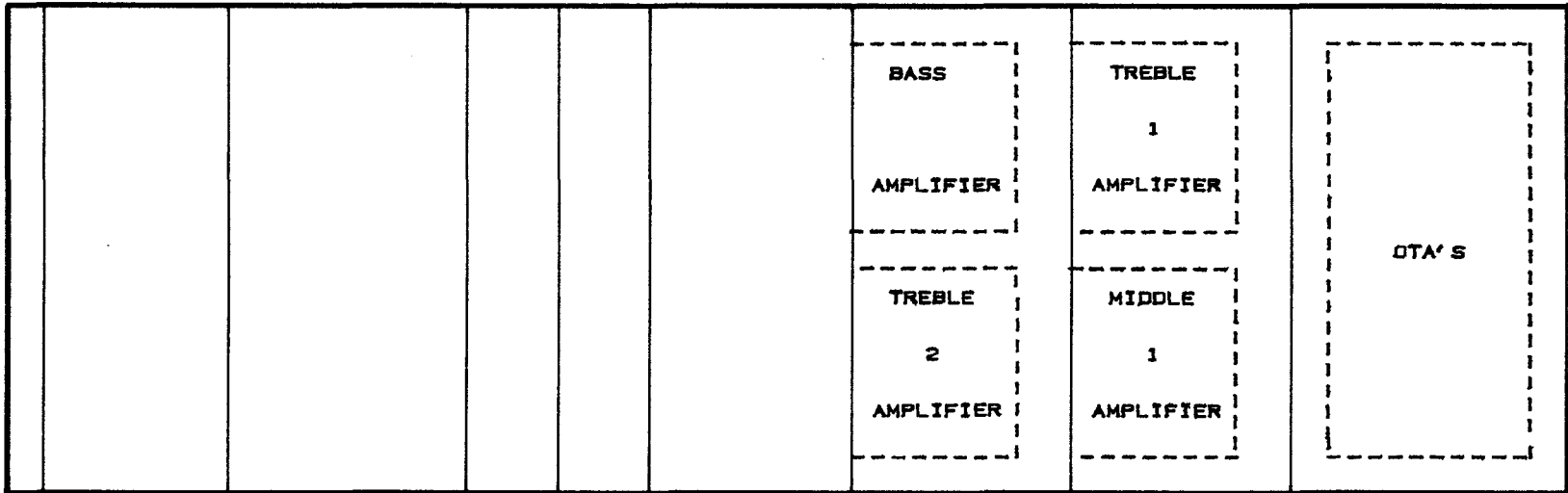
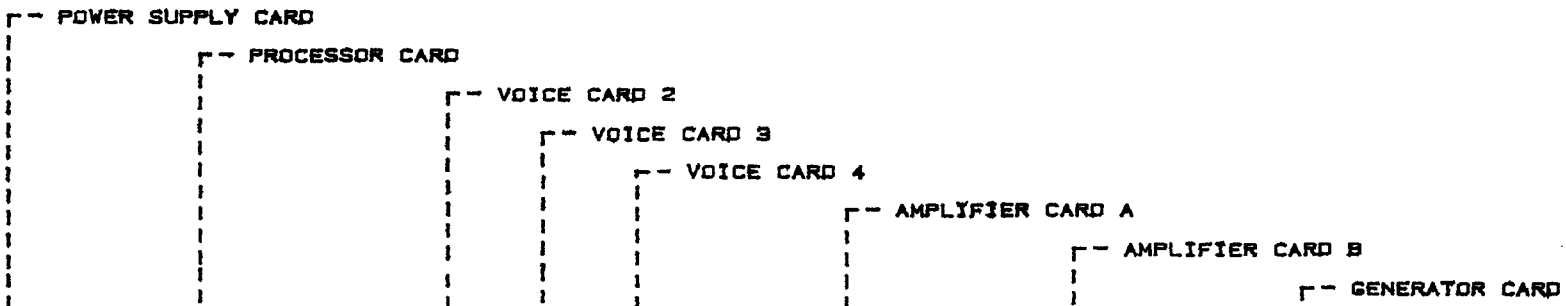
JOHANNUS Orgelbouw b.v.

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POSITION DIAGRAM CARDS (TOPVIEW)			
DESIGN	LAP		REV.
DRAWN	VERSCHOOR	12-02-91	
JOHANNUS OPUS 900			PAGE 2

CON1

010	020	030	040	050	060	070	080	090	0100	0110	0120	0130	0140	0150	0160	0170	0180	0190	0200	0210	0220	0230	0240	0250	0260	0270	0280	0290	0300	0310	0320
+12V	-12V	AGND	AGND	+35V	-35V	+12V	-12V	AGND	AGND	+35V	-35V													+5V	LGND						

POWER SUPPLY CARD

CON2

010	020	030	040	050	060	070	080	090	0100	0110	0120	0130	0140	0150	0160	0170	0180	0190	0200	0210	0220	0230	0240	0250	0260	0270	0280	0290	0300	0310	0320
+12V	-12V	AGND	AGND	+35V	-35V	+12V	-12V	AGND	AGND	+35V	-35V				GEN1	LGND	LGND		RES M114	B6	B4	B2	B0	+5V	LGND	LGND		SEL7	SEL5	SEL3	SEL1

PROCESSOR CARD

CON4-8

010	020	030	040	050	060	070	080	090	0100	0110	0120	0130	0140	0150	0160	0170	0180	0190	0200	0210	0220	0230	0240	0250	0260	0270	0280	0290	0300	0310	0320
PRE-AMP1	PRE-AMP3			+12V	-12V	AGND	AGND	+35V	-35V						GEN1	LGND	LGND		RES M114	B6	B4	B2	B0	+5V	LGND	LGND		SEL7	SEL5	SEL3	SEL1

VOICE CARD 2-4

CON6-9

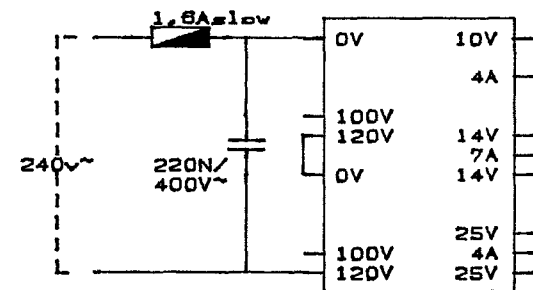
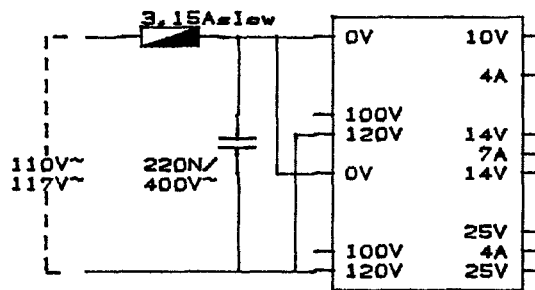
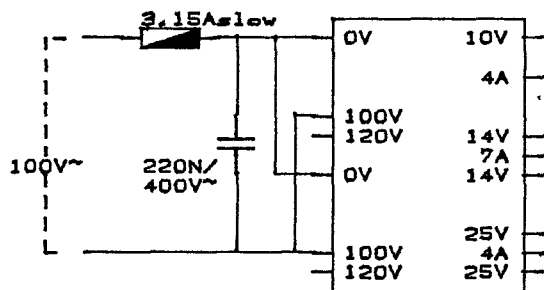
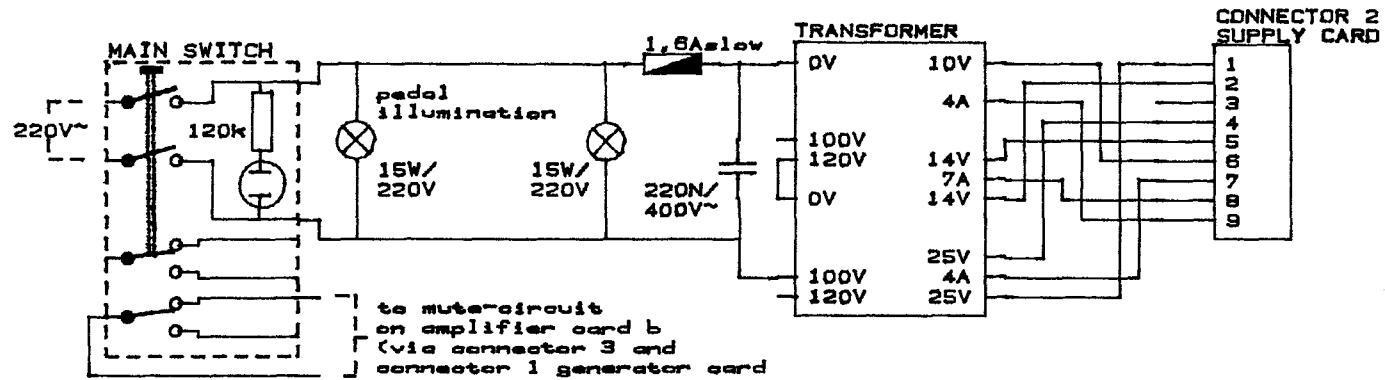
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POWER-AMP1	POWER-AMP3	TO ECHO		+12V	-12V	AGND	AGND	+35V	-35V	VOLUME	PHONES				GEN1	LGND	LGND							+5V	LGND	LGND					

AMPLIFIER CARD A & B

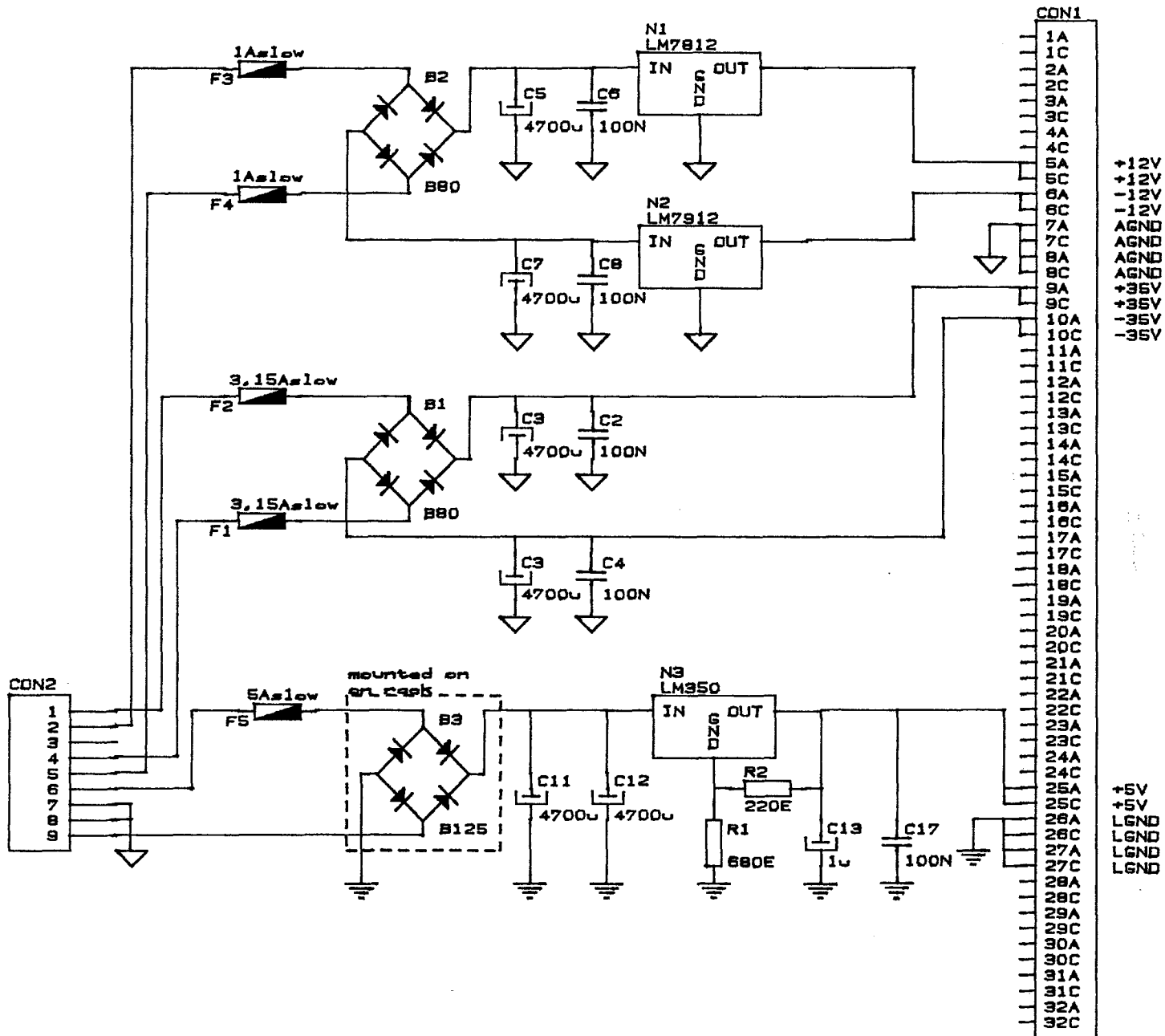
CON10

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POWER-AMP1	POWER-AMP3	TO ECHO		+12V	-12V	AGND	AGND	+35V	-35V	VOLUME	PHONES				GEN1	LGND	LGND		RES M114					+5V	LGND	LGND		SEL7	SEL5	SEL3	SEL1

GENERATOR CARD

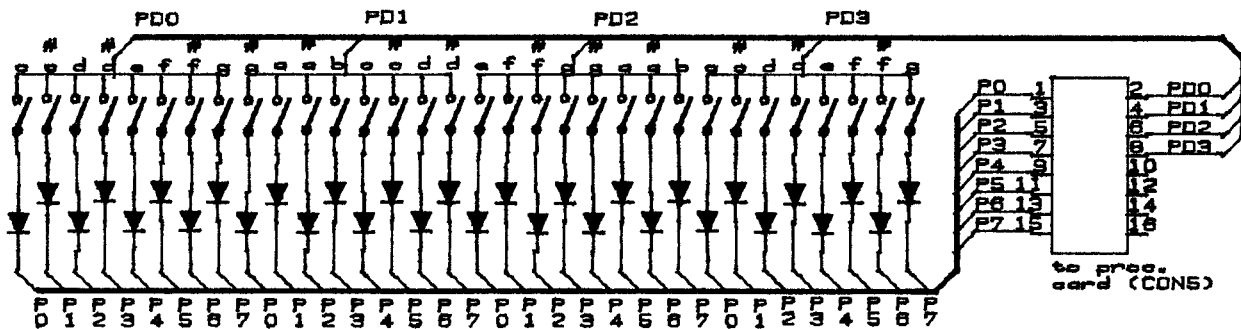
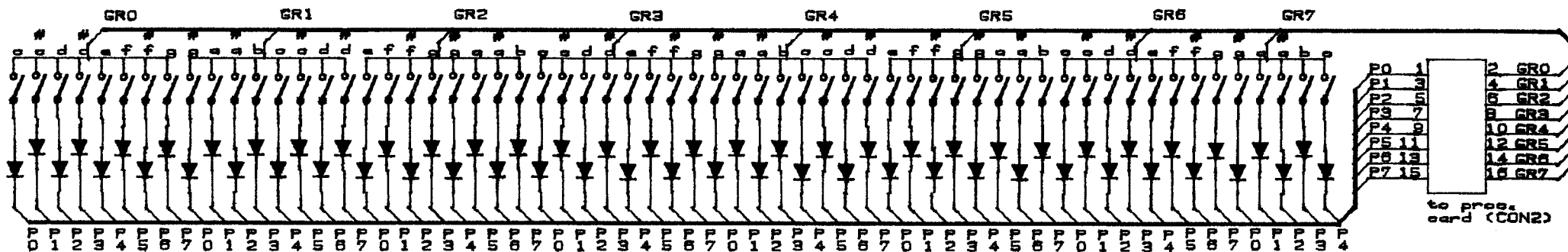
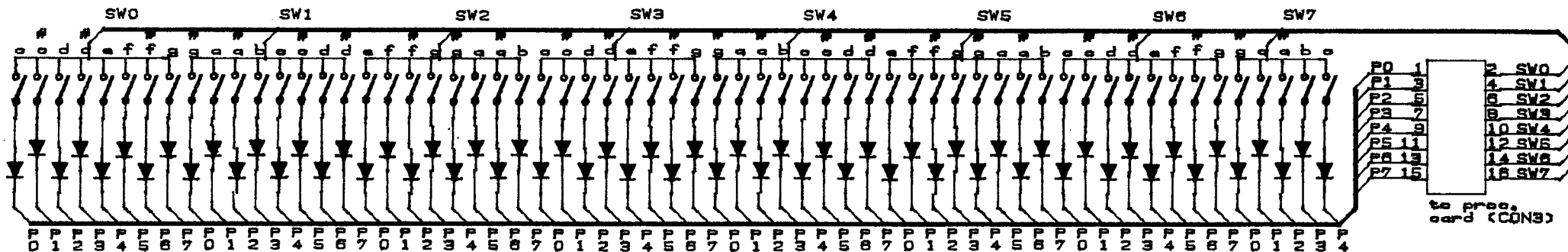


TRANSFORMER CONNECTIONS			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	14-02-91	PAGE
JOHANNUS OPUS 900			4



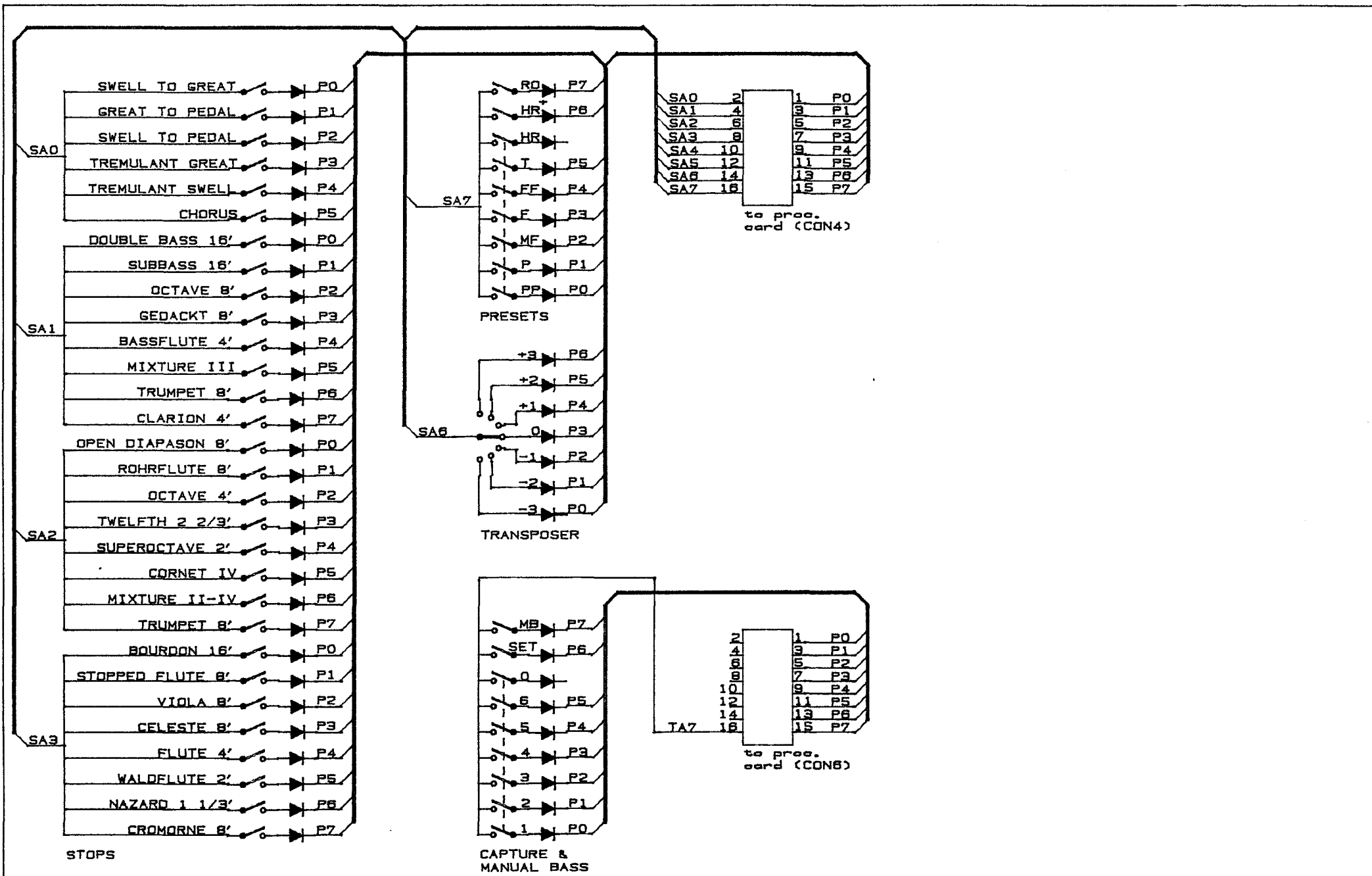
POWER SUPPLY (power supply card)

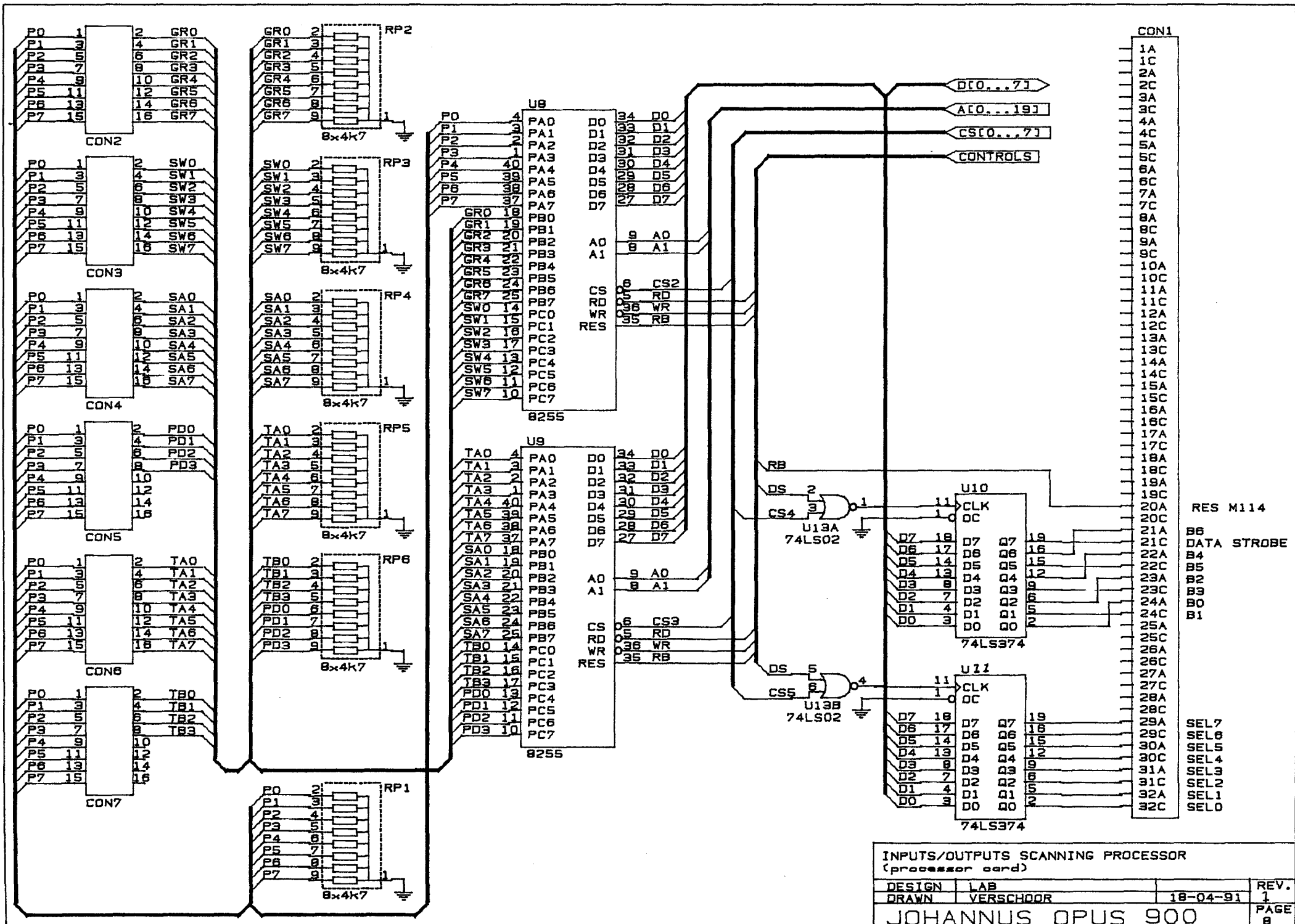
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	14-02-91	PAGE
JOHANNUS OPUS 900			5

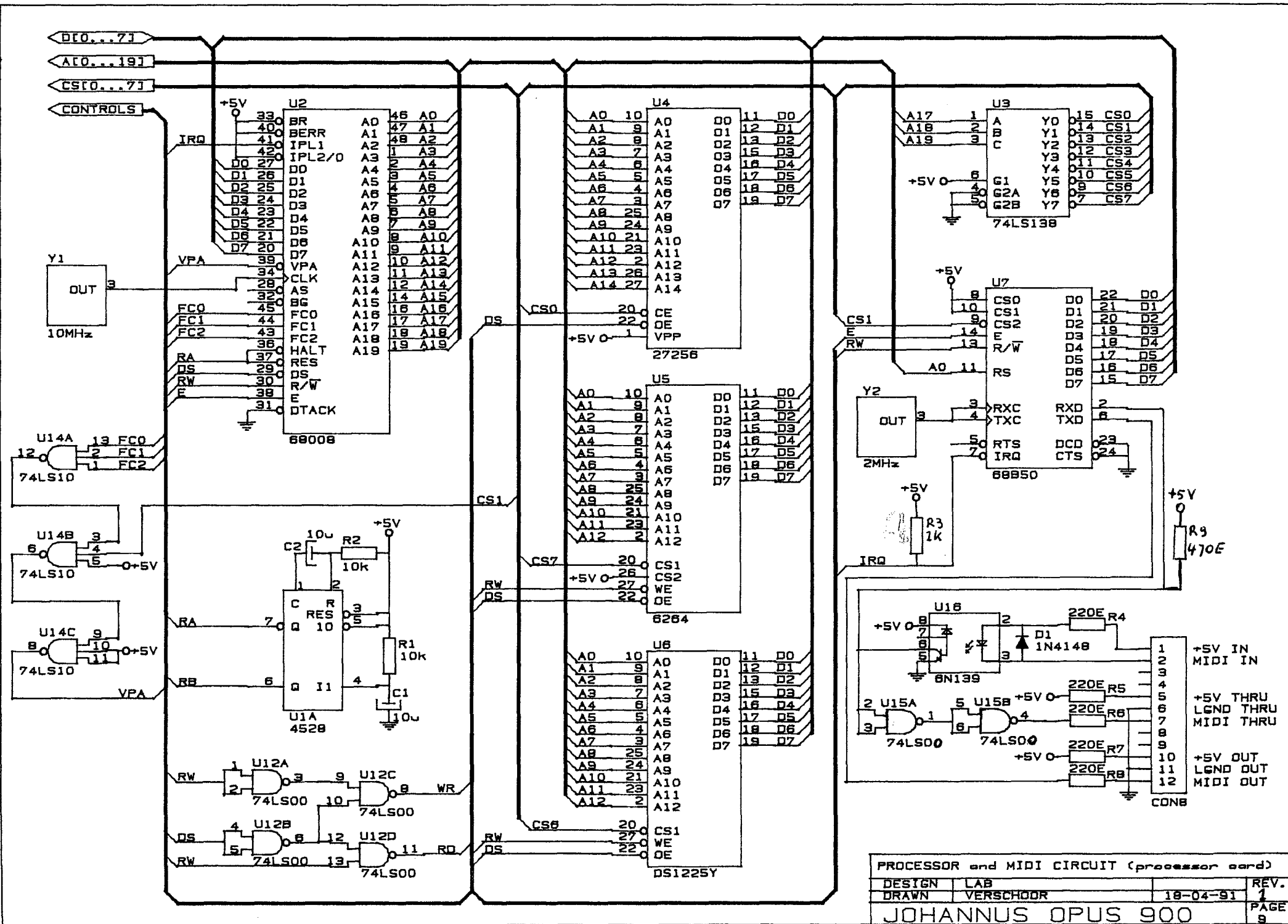


SCANNING KEYING			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	15-02-91	
JOHANNUS OPUS 900			PAGE 8



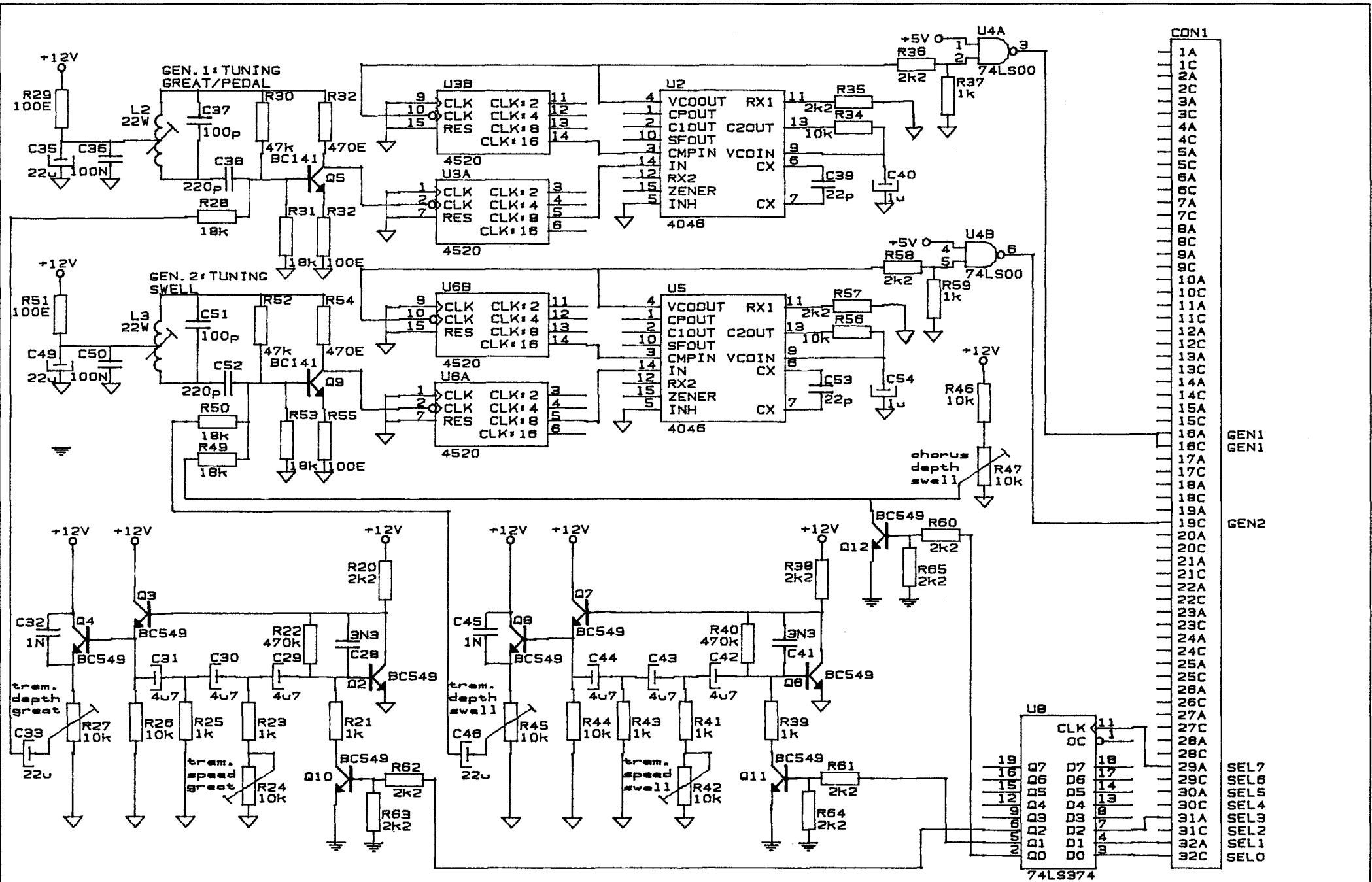




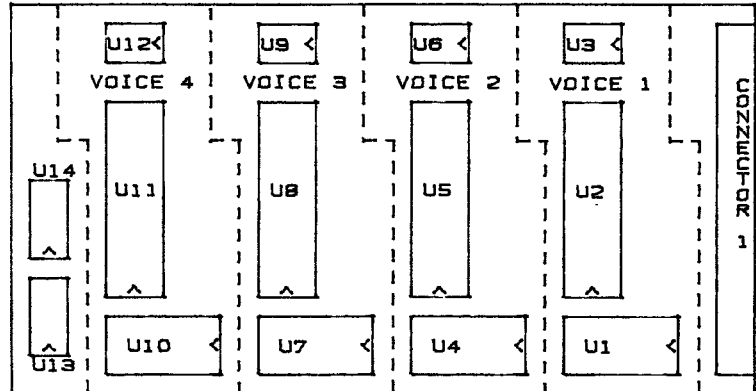
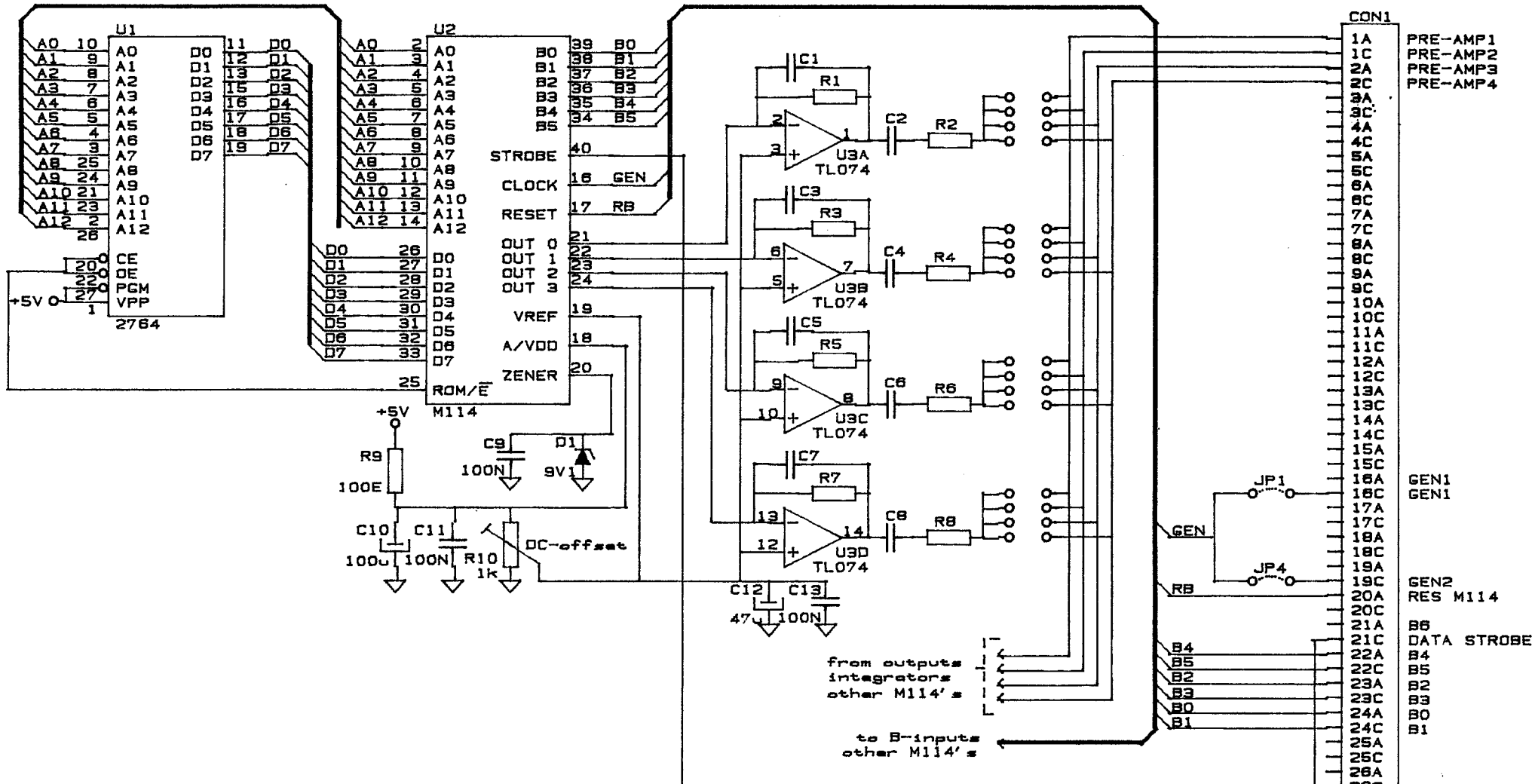


PROCESSOR and MIDI CIRCUIT (processor card)

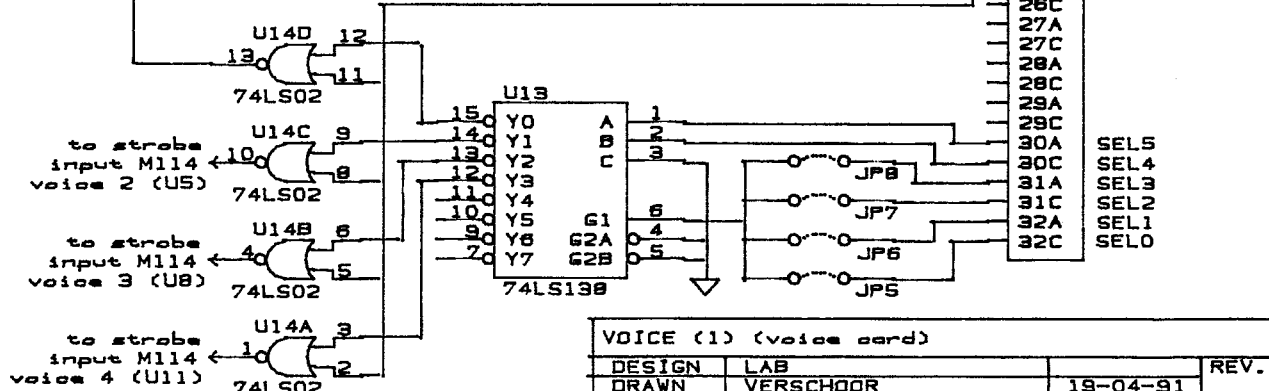
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DRAWN	VERSCHOOR	18-04-91	1
JOHANNUS OPUS 900			PAGE
			9



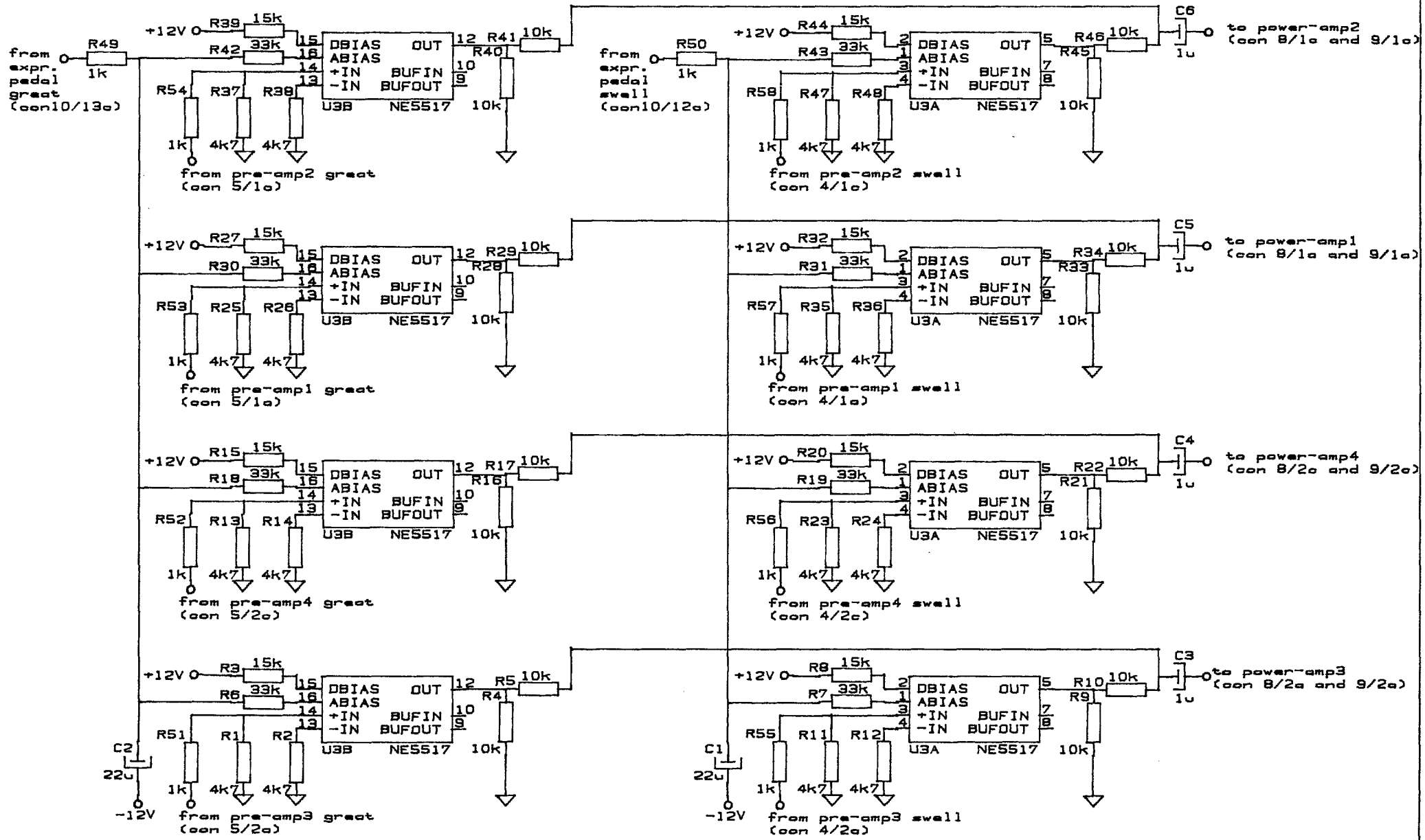
TUNING GENERATORS; CHORUS and TREMULANTS (generator card)			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	18-04-91	1
JOHANNUS OPUS 900			PAGE
			10



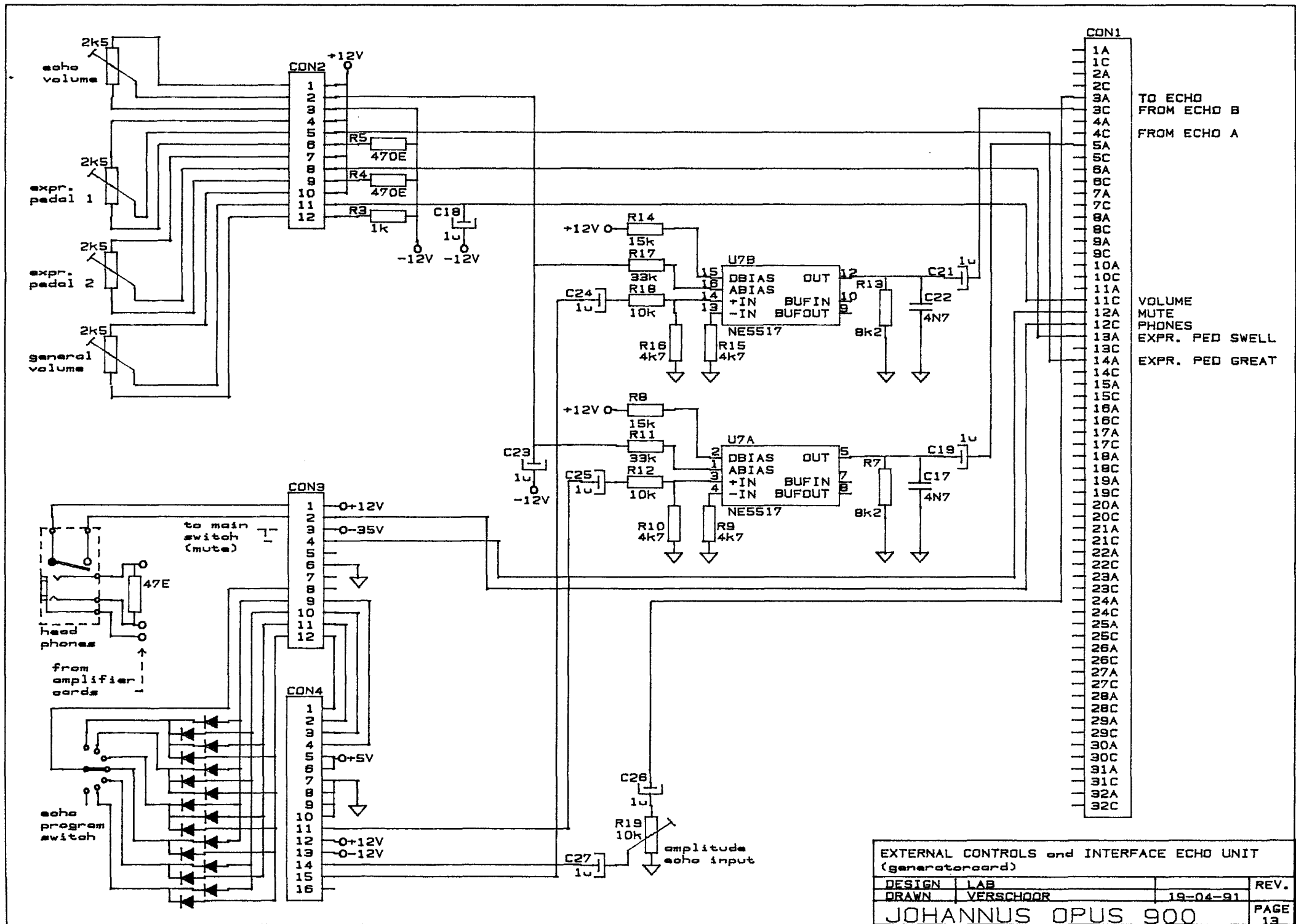
TOPVIEW VOICECARD

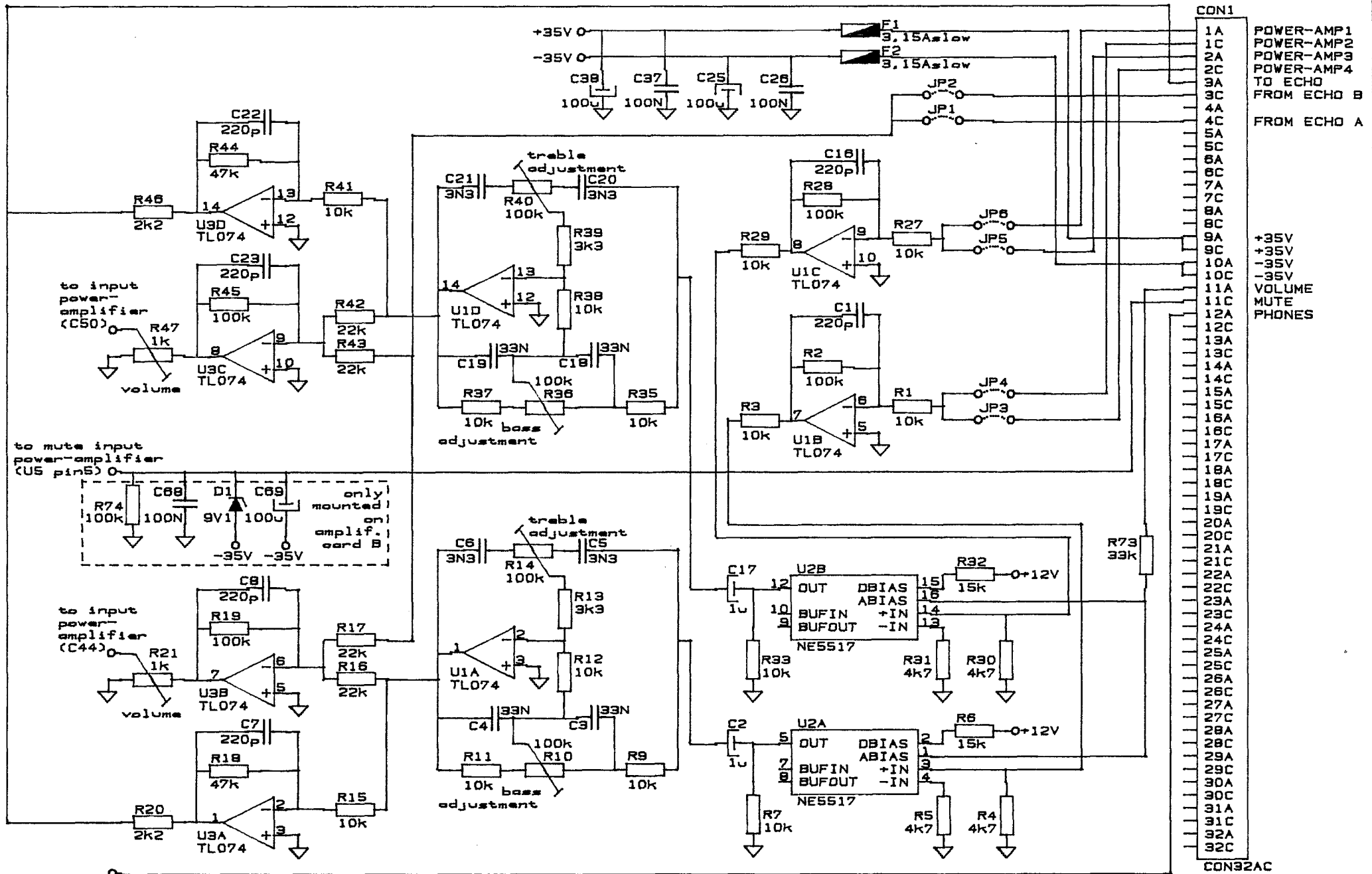


VOICE (1) (voice card)		
DESIGN	LAB	REV.
DRAWN	VERSCHOOR	19-04-91
JOHANNUS OPUS 900		PAGE 11



EXPRESSION PEDAL CIRCUIT (buzcard)			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	19-04-91	PAGE
JOHANNUS OPUS 900			12



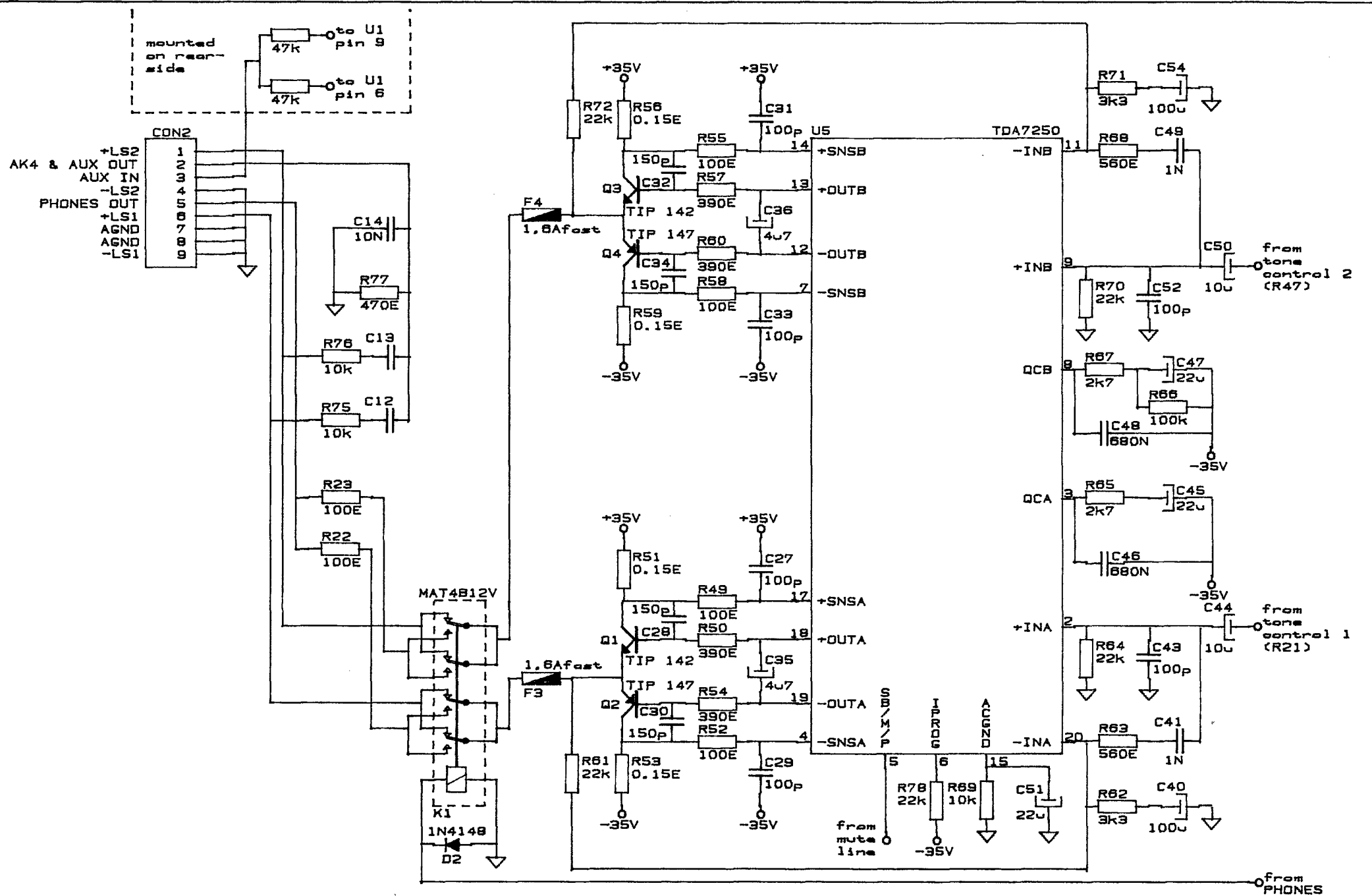


- CON1
- 1A POWER-AMP1
  - 1C POWER-AMP2
  - 2A POWER-AMP3
  - 2C POWER-AMP4
  - 3A TO ECHO
  - 3C FROM ECHO B
  - 4A
  - 4C FROM ECHO A
  - 5A
  - 5C
  - 6A
  - 6C
  - 7A
  - 7C
  - 8A
  - 8C
  - 9A +35V
  - 9C +35V
  - 10A -35V
  - 10C -35V
  - 11A VOLUME
  - 11C MUTE
  - 12A PHONES
  - 12C
  - 13A
  - 13C
  - 14A
  - 14C
  - 15A
  - 15C
  - 16A
  - 16C
  - 17A
  - 17C
  - 18A
  - 18C
  - 19A
  - 19C
  - 20A
  - 20C
  - 21A
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  - 23C
  - 24A
  - 24C
  - 25A
  - 25C
  - 26A
  - 26C
  - 27A
  - 27C
  - 28A
  - 28C
  - 29A
  - 29C
  - 30A
  - 30C
  - 31A
  - 31C
  - 32A
  - 32C
- CON32AC

PRE-AMPLIFIERS and TONE CONTROLS  
(amplifier card)

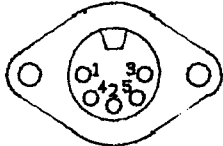
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DRAWN	VERSCHOOR	19-04-91	
JOHANNUS OPUS 900			PAGE 14





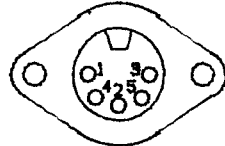
POWER AMPLIFIER (amplifier card)			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	19-04-91	PAGE
JOHANNUS OPUS 900			15

1. NOT CONNECTED
2. NOT CONNECTED
3. NOT CONNECTED
4. +5V MIDI IN
5. MIDI IN



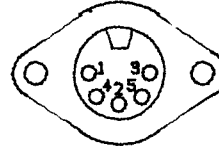
MIDI  
IN

1. NOT CONNECTED
2. NOT CONNECTED
3. NOT CONNECTED
4. +5V MIDI THRU
5. MIDI THRU



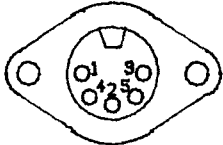
MIDI  
THRU

1. NOT CONNECTED
2. NOT CONNECTED
3. NOT CONNECTED
4. +5V MIDI OUT
5. MIDI OUT



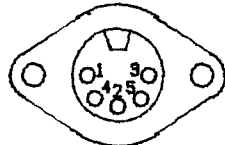
MIDI  
OUT

1. AK-4 OUT CHANNEL A
2. GROUND
3. NOT CONNECTED
4. AK-4 OUT CHANNEL B
5. NOT CONNECTED



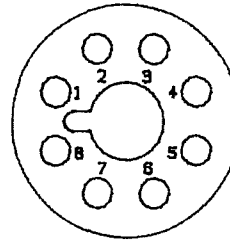
AK-4  
OUT

1. AUX OUT CHANNEL A
2. GROUND
3. AUX IN CHANNEL A
4. AUX OUT CHANNEL B
5. AUX IN CHANNEL B



AUX  
IN/OUT

1. - BASS AMPLIFIER
2. + BASS AMPLIFIER
3. - MIDDLE AMPLIFIER
4. + MIDDLE AMPLIFIER
5. - TREBLE I AMPLIFIER
6. + TREBLE I AMPLIFIER
7. - TREBLE II AMPLIFIER
8. + TREBLE II AMPLIFIER



LS OUT A

(OPTIONAL)

EXTERNAL CONNECTIONS (mounted on the  
rearside of the organ) SOLDERINGSIDEVIEW

DESIGN	LAB		REV.
DRAWN	VERSCHOOR	19-04-91	PAGE
JOHANNUS OPUS 900			18