

WESLEY

MADE BY JOHANNIUS

SCHEMATIC DIAGRAMS

ALLEGRO

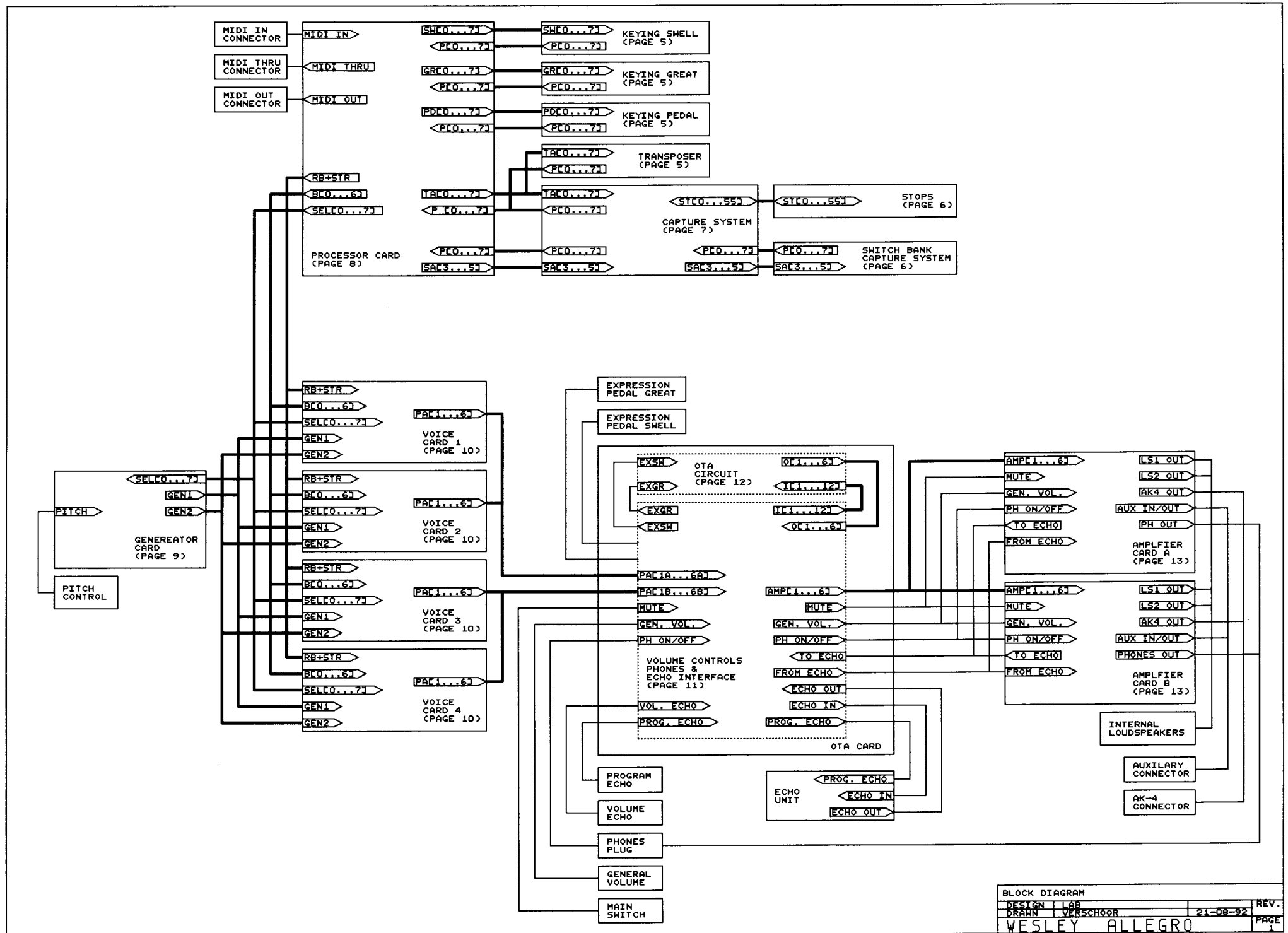
ALTERATIONS RESERVED

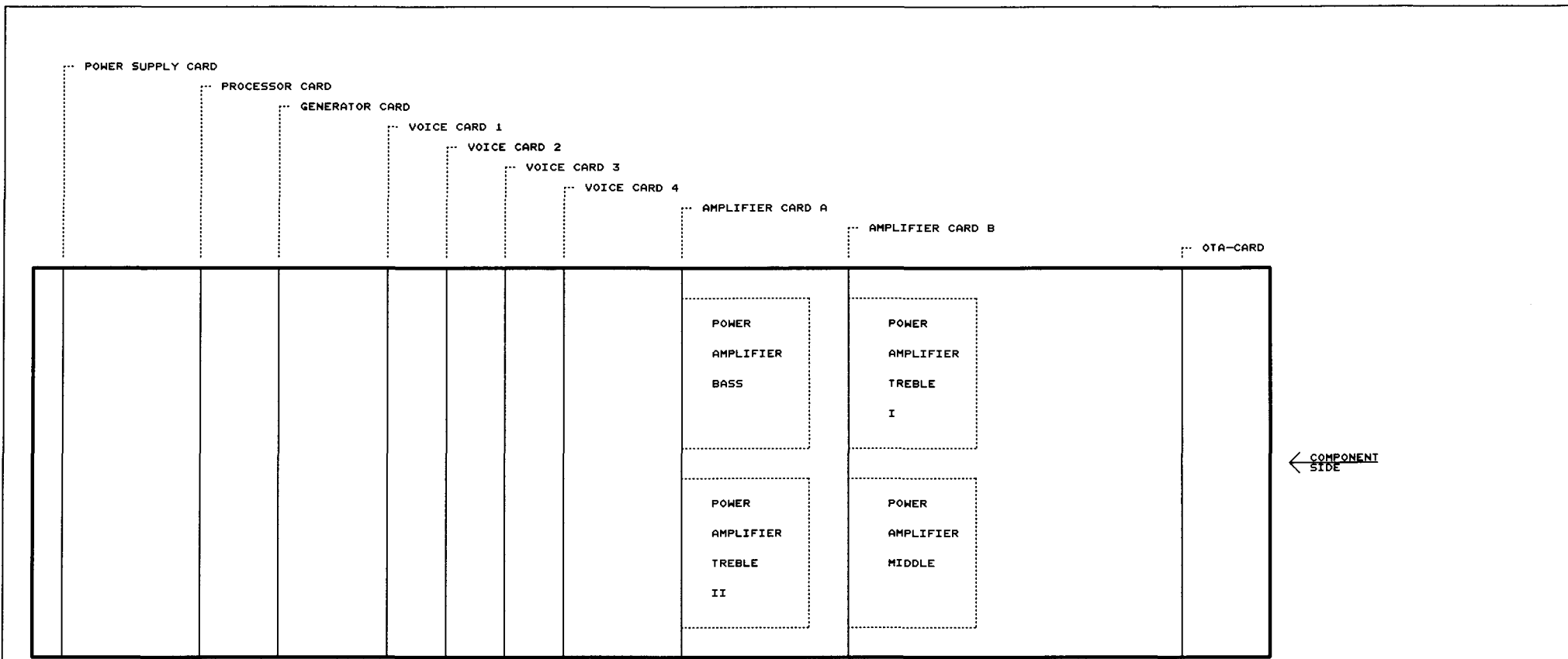
WESLEY Organs b.v.

Morsestraat 28 - 6716 AH Ede - Tel. (08380) 37403 - Fax (08380) 22238

C O N T E N T S

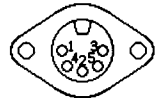
1. BLOCK DIAGRAM
2. POSITION DIAGRAM CARDS (TOPVIEW) &
EXTERNAL CONNECTIONS (mounted on the
rearside of the organ)
3. PINNING BUS CARD CONNECTORS
4. TRANSFORMER CONNECTIONS & POWER SUPPLY
5. SCANNING KEYING & TRANSPOSER
6. STOP-BANK & SWITCH-BANK CAPTURE SYSTEM
7. CAPTURE SYSTEM
8. PROCESSOR CARD
9. GENERATOR CARD
10. VOICE CARD
11. VOLUMECONTROLS; HEADPHONES CONNECTIONS &
ECHO INTERFACE (ota card)
12. EXPRESSION PEDAL CIRCUIT (ota card)
13. AMPLIFIER CARD
14. POSITION DIAGRAM ADJUSTMENTS
INTERNAL POTENTIOMETERS





← COMPONENT SIDE

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



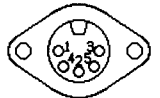
MIDI IN

- 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

SOLDERINGSIDE VIEW

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

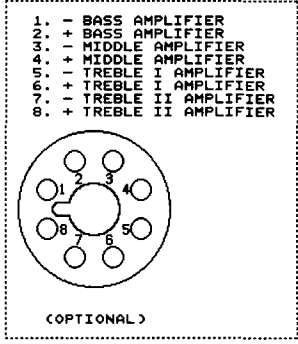


AK-4 OUT

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

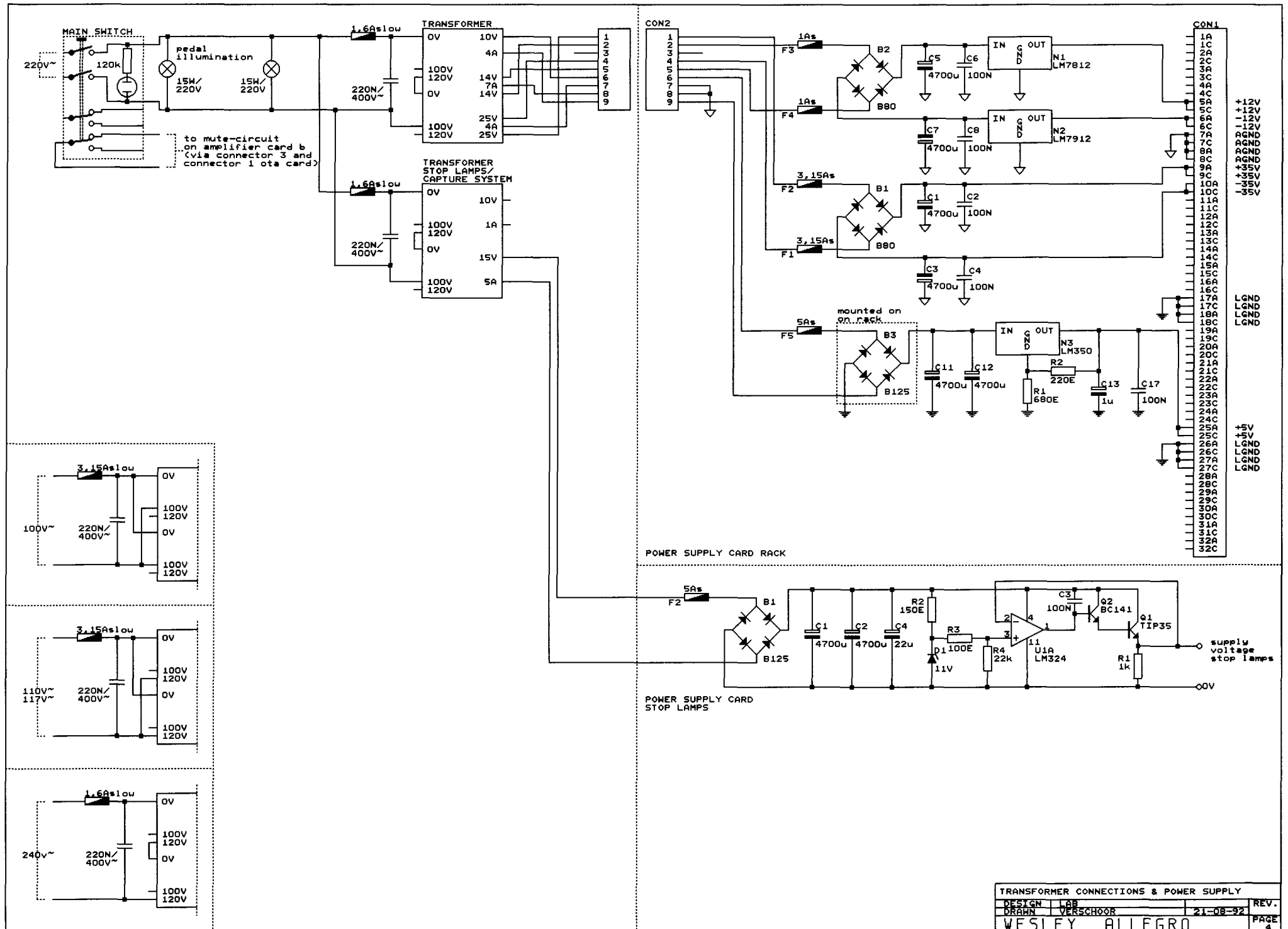


AUX IN/OUT

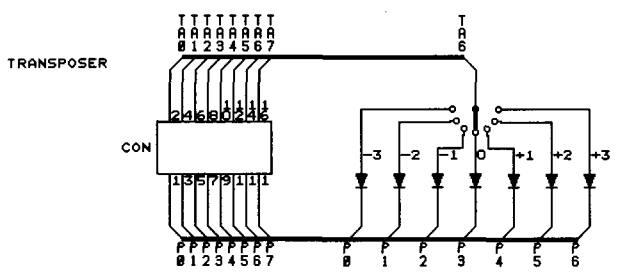
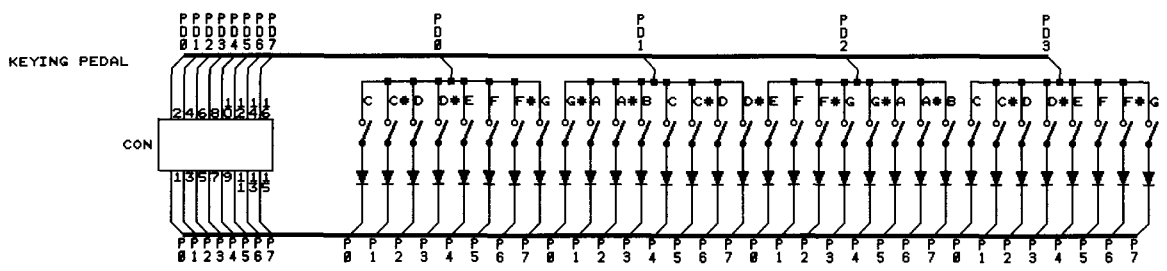
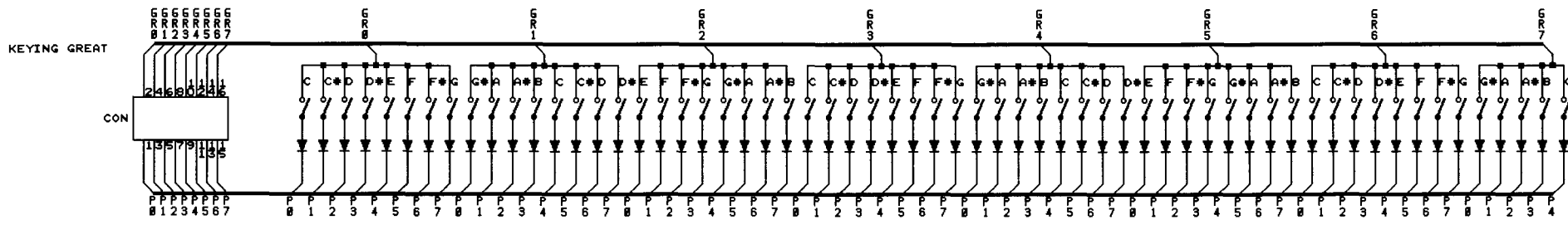
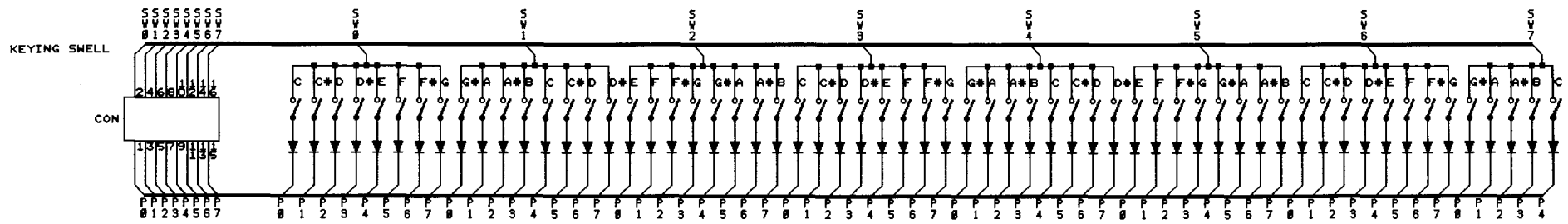


POSITION DIAGRAM CARDS (TOPVIEW) & EXTERNAL CONNECTIONS (mounted on the reverse side of the organ)			
DESIGN	LAB	REV.	
DRAWN	VERSCHOOR	21-08-92	PAGE 2
WESLEY ALLEGRO			

CON1	CON2	CON3	CON4-5	CON6-8	CON9-10	CON11	CON12
8 1 5 0 2 0 0 3 0 0 4 0 +12V 0 5 0 +12V -12V 0 6 0 -12V AGND 0 7 0 AGND AGND 0 8 0 AGND +35V 0 9 0 +35V -35V 0 10 0 -35V 0 11 0 0 12 0 0 13 0 0 14 0 0 15 0 0 16 0 LGND 0 17 0 LGND LGND 0 18 0 LGND 0 19 0 0 20 0 0 21 0 0 22 0 0 23 0 0 24 0 0 25 0 +5V 0 26 0 +5V LGND 0 27 0 LGND LGND 0 28 0 LGND 0 29 0 0 30 0 0 31 0 0 32 0 0 33 0 POWER SUPPLY CARD	8 1 5 0 2 0 0 3 0 0 4 0 +12V 0 5 0 +12V -12V 0 6 0 -12V AGND 0 7 0 AGND AGND 0 8 0 AGND +35V 0 9 0 +35V -35V 0 10 0 -35V 0 11 0 0 12 0 0 13 0 0 14 0 0 15 0 0 16 0 LGND 0 17 0 LGND LGND 0 18 0 LGND 0 19 0 RB 0 20 0 CHOISE B6 0 21 0 STR B4 0 22 0 B5 B2 0 23 0 B3 B0 0 24 0 B1 +5V 0 25 0 +5V LGND 0 26 0 LGND LGND 0 27 0 LGND 0 28 0 SEL7 0 29 0 SEL6 SEL5 0 30 0 SEL4 SEL3 0 31 0 SEL2 SEL1 0 32 0 SEL0 PROCESSOR CARD	8 1 5 0 2 0 0 3 0 0 4 0 +12V 0 5 0 +12V -12V 0 6 0 -12V AGND 0 7 0 AGND AGND 0 8 0 AGND +35V 0 9 0 +35V -35V 0 10 0 -35V 0 11 0 0 12 0 0 13 0 0 14 0 0 15 0 0 16 0 LGND 0 17 0 LGND LGND 0 18 0 LGND GEN2 0 19 0 GEN2 RB 0 20 0 CHOISE B6 0 21 0 STR B4 0 22 0 B5 B2 0 23 0 B3 B0 0 24 0 B1 +5V 0 25 0 +5V LGND 0 26 0 LGND LGND 0 27 0 LGND 0 28 0 SEL7 0 29 0 SEL6 SEL5 0 30 0 SEL4 SEL3 0 31 0 SEL2 SEL1 0 32 0 SEL0 GENERATOR CARD	8 1 5 0 2 0 0 3 0 0 4 0 +12V 0 5 0 +12V -12V 0 6 0 -12V AGND 0 7 0 AGND AGND 0 8 0 AGND +35V 0 9 0 +35V -35V 0 10 0 -35V 0 11 0 0 12 0 0 13 0 0 14 0 0 15 0 0 16 0 LGND 0 17 0 LGND LGND 0 18 0 LGND GEN2 0 19 0 GEN2 RB 0 20 0 CHOISE B6 0 21 0 STR B4 0 22 0 B5 B2 0 23 0 B3 B0 0 24 0 B1 +5V 0 25 0 +5V LGND 0 26 0 LGND LGND 0 27 0 LGND 0 28 0 SEL7 0 29 0 SEL6 SEL5 0 30 0 SEL4 SEL3 0 31 0 SEL2 SEL1 0 32 0 SEL0 VOICE CARD 1-2	8 1 5 0 2 0 0 3 0 0 4 0 +12V 0 5 0 +12V -12V 0 6 0 -12V AGND 0 7 0 AGND AGND 0 8 0 AGND +35V 0 9 0 +35V -35V 0 10 0 -35V 0 11 0 0 12 0 0 13 0 0 14 0 0 15 0 0 16 0 LGND 0 17 0 LGND LGND 0 18 0 LGND GEN2 0 19 0 GEN2 RB 0 20 0 CHOISE B6 0 21 0 STR B4 0 22 0 B5 B2 0 23 0 B3 B0 0 24 0 B1 +5V 0 25 0 +5V LGND 0 26 0 LGND LGND 0 27 0 LGND 0 28 0 SEL7 0 29 0 SEL6 SEL5 0 30 0 SEL4 SEL3 0 31 0 SEL2 SEL1 0 32 0 SEL0 VOICE CARD 3-5	8 1 5 0 2 0 0 3 0 0 4 0 +12V 0 5 0 +12V -12V 0 6 0 -12V AGND 0 7 0 AGND AGND 0 8 0 AGND +35V 0 9 0 +35V -35V 0 10 0 -35V 0 11 0 0 12 0 0 13 0 0 14 0 0 15 0 0 16 0 LGND 0 17 0 LGND LGND 0 18 0 LGND AMP3 0 19 0 AMP2 AMP3 TO ECHO 0 20 0 AMP4 FROM ECHO B 0 21 0 AMP4 FROM ECHO A +12V 0 22 0 +12V -12V 0 23 0 -12V AGND 0 24 0 AGND AGND 0 25 0 AGND +35V 0 26 0 +35V -35V 0 27 0 -35V 0 28 0 0 29 0 0 30 0 0 31 0 0 32 0 0 33 0 VOLUME PHONES LGND 0 34 0 LGND LGND 0 35 0 LGND +5V 0 36 0 +5V LGND 0 37 0 LGND LGND 0 38 0 LGND AMPIFIER CARD A & B	8 1 5 0 2 0 0 3 0 0 4 0 +12V 0 5 0 +12V -12V 0 6 0 -12V AGND 0 7 0 AGND AGND 0 8 0 AGND +35V 0 9 0 +35V -35V 0 10 0 -35V 0 11 0 0 12 0 0 13 0 0 14 0 0 15 0 0 16 0 LGND 0 17 0 LGND LGND 0 18 0 LGND AMP3 0 19 0 AMP4 FROM ECHO B AMP5 0 20 0 AMP6 FROM ECHO A +12V 0 21 0 +12V -12V 0 22 0 -12V AGND 0 23 0 AGND AGND 0 24 0 AGND +35V 0 25 0 +35V -35V 0 26 0 -35V 0 27 0 0 28 0 0 29 0 0 30 0 0 31 0 0 32 0 0 33 0 VOLUME PHONES LGND 0 34 0 LGND LGND 0 35 0 LGND +5V 0 36 0 +5V LGND 0 37 0 LGND LGND 0 38 0 LGND AMPIFIER CARD C	8 1 5 0 2 0 0 3 0 0 4 0 +12V 0 5 0 +12V -12V 0 6 0 -12V AGND 0 7 0 AGND AGND 0 8 0 AGND +35V 0 9 0 +35V -35V 0 10 0 -35V 0 11 0 0 12 0 0 13 0 0 14 0 0 15 0 0 16 0 LGND 0 17 0 LGND LGND 0 18 0 LGND AMP3 0 19 0 AMP4 FROM ECHO B AMP5 0 20 0 AMP6 FROM ECHO A +12V 0 21 0 +12V -12V 0 22 0 -12V AGND 0 23 0 AGND AGND 0 24 0 AGND +35V 0 25 0 +35V -35V 0 26 0 -35V 0 27 0 0 28 0 0 29 0 0 30 0 0 31 0 0 32 0 0 33 0 VOLUME PHONES LGND 0 34 0 LGND LGND 0 35 0 LGND +5V 0 36 0 +5V LGND 0 37 0 LGND LGND 0 38 0 LGND AMPIFIER CARD C OTA CARD

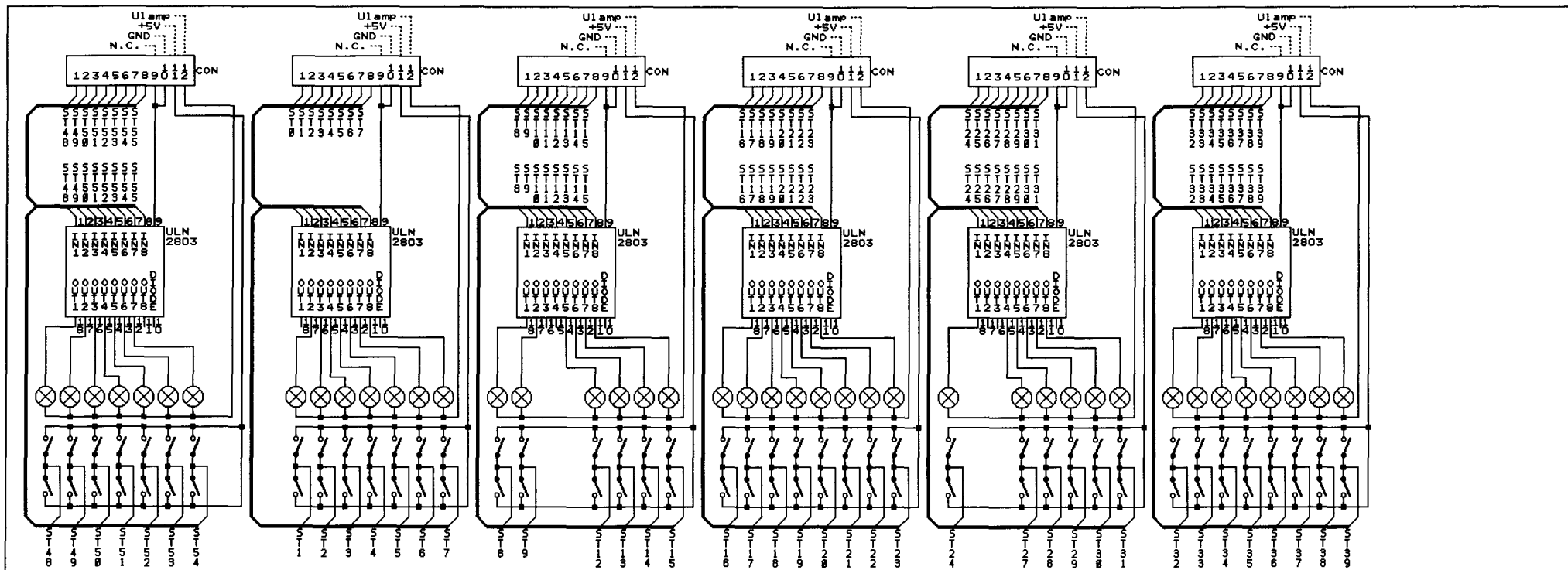


TRANSFORMER CONNECTIONS & POWER SUPPLY			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	21-08-92	PAGE
WESLEY ALLEGRO			4

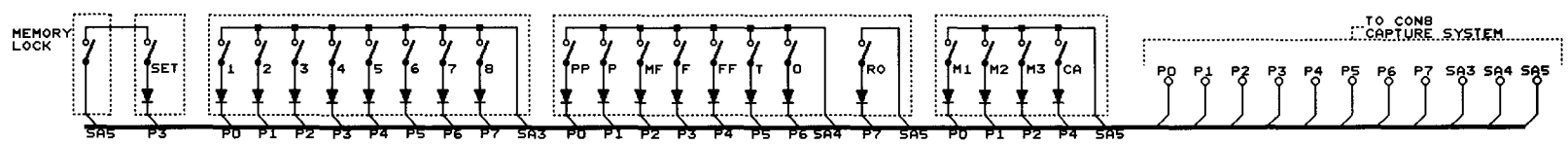


ALL CONNECTORS: TO PROCESSOR CARD
 ALL DIODES: 1N4148

SCANNING KEYING & TRANSPOSER			REV.
DESIGN	LAB		
DRAHN	VERSCHOOR	21-08-92	PAGE 5
WESLEY ALLEGRO			



SWITCH-BANK CAPTURE SYSTEM



STOPLIST

- ACCESSORIES**
 ST48 = SWELL TO GREAT
 ST49 = GREAT TO PEDAL
 ST50 = SWELL TO PEDAL
 ST51 = TREMULANT GREAT
 ST52 = TREMULANT SWELL
 ST53 = CHORUS
 ST54 = MANUAL BASS

PEDAL

- ST1 = DOUBLE BASS 16'
 ST2 = SUBBASS 16'
 ST3 = OCTAVE 8'
 ST4 = GEDACKT 8'
 ST5 = BASSFLUTE 4'
 ST6 = MIXTURE III
 ST7 = CONTRA TRUMPET 16'
 ST8 = TRUMPET 8'
 ST9 = MIDI TO PEDAL (CHAN. 3)

GREAT

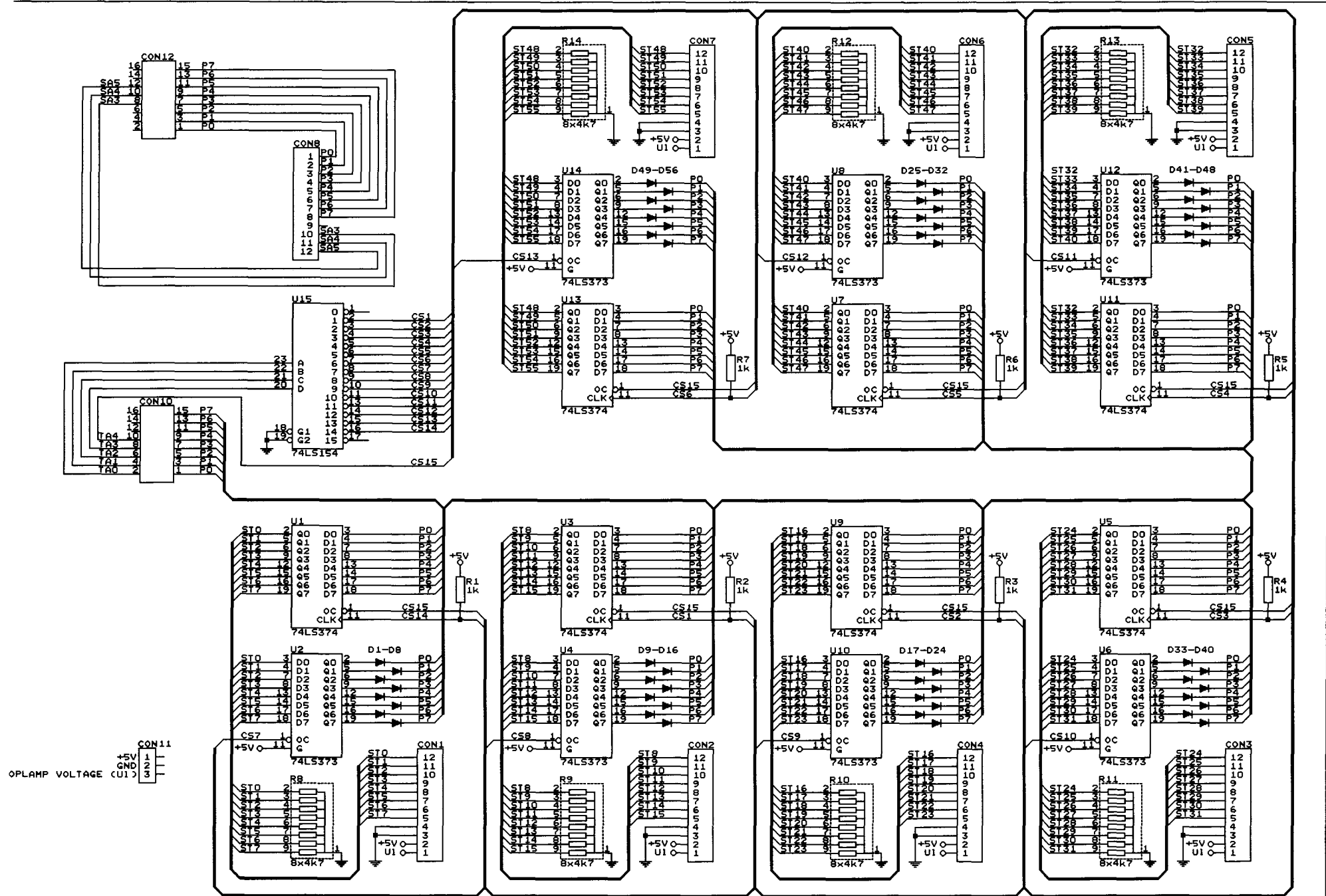
- ST12 = BOURDON 16'
 ST13 = OPEN DIAPASON 8'
 ST14 = ROHRFLUTE 8'
 ST15 = GAMBA 8'
 ST16 = OCTAVE 4'
 ST17 = OPEN FLUTE 4'
 ST18 = TWELFTH 2 2/3'
 ST19 = SUPEROCTAVE 2'
 ST20 = CONICAL FLUTE 2'
 ST21 = CORNET IV
 ST22 = MIXTURE IV-VI
 ST23 = TRUMPET 8'
 ST24 = MIDI TO GREAT (CHAN. 1)

SWELL

- ST27 = OPEN DIAPASON 8'
 ST28 = STOPPED FLUTE 8'
 ST29 = VIOLA 8'
 ST30 = CELESTE 8'
 ST31 = OCTAVE 4'
 ST32 = FLUTE 4'
 ST33 = FLUTE TWELFTH 2 2/3'
 ST34 = WALDFLUTE 2'
 ST35 = TIERCE 1 3/5'
 ST36 = RAUSCHPEIFE II-IV
 ST37 = CROMORNE 8'
 ST38 = OBOE 8'
 ST39 = MIDI TO SWELL (CHAN. 2)

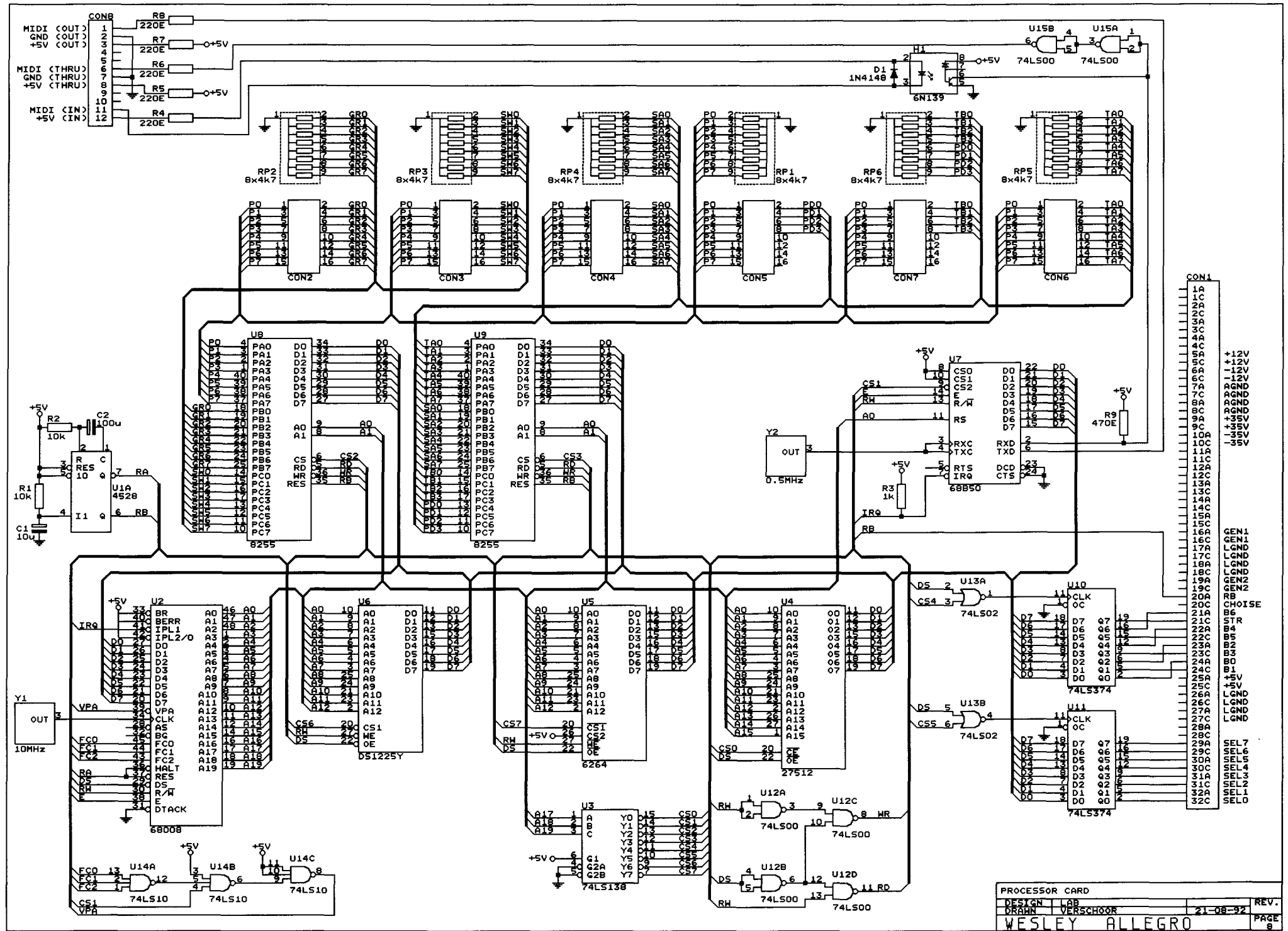
ALL CONNECTORS: TO CAPTURE SYSTEM
 ALL STOPLAMPS: 14Vdc/75mA

STOP-BANK AND SWITCH-BANK CAPTURE SYSTEM			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	21-08-92	PAGE
WESLEY ALLEGRO			6

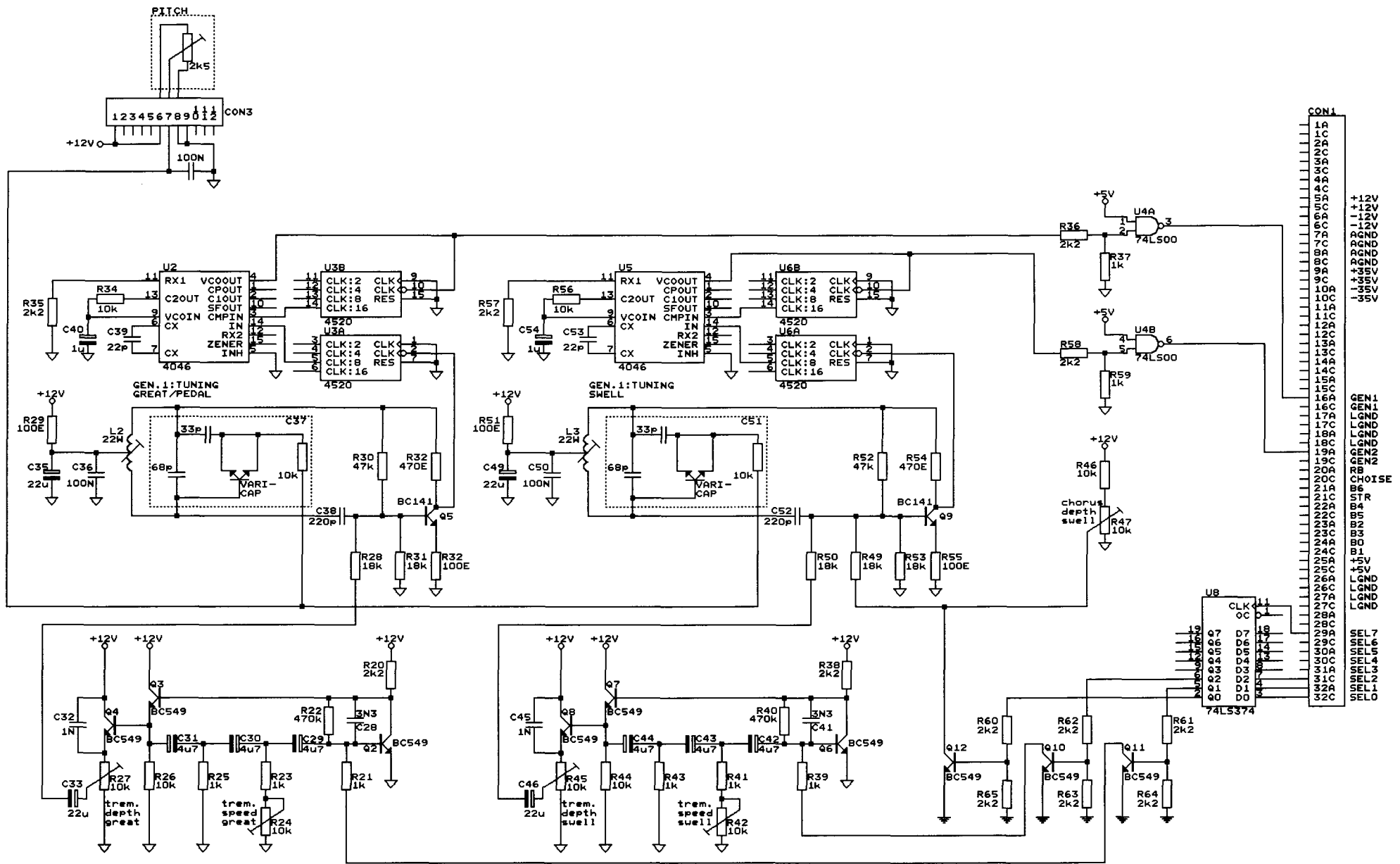


ALL DIODES: 1N4148

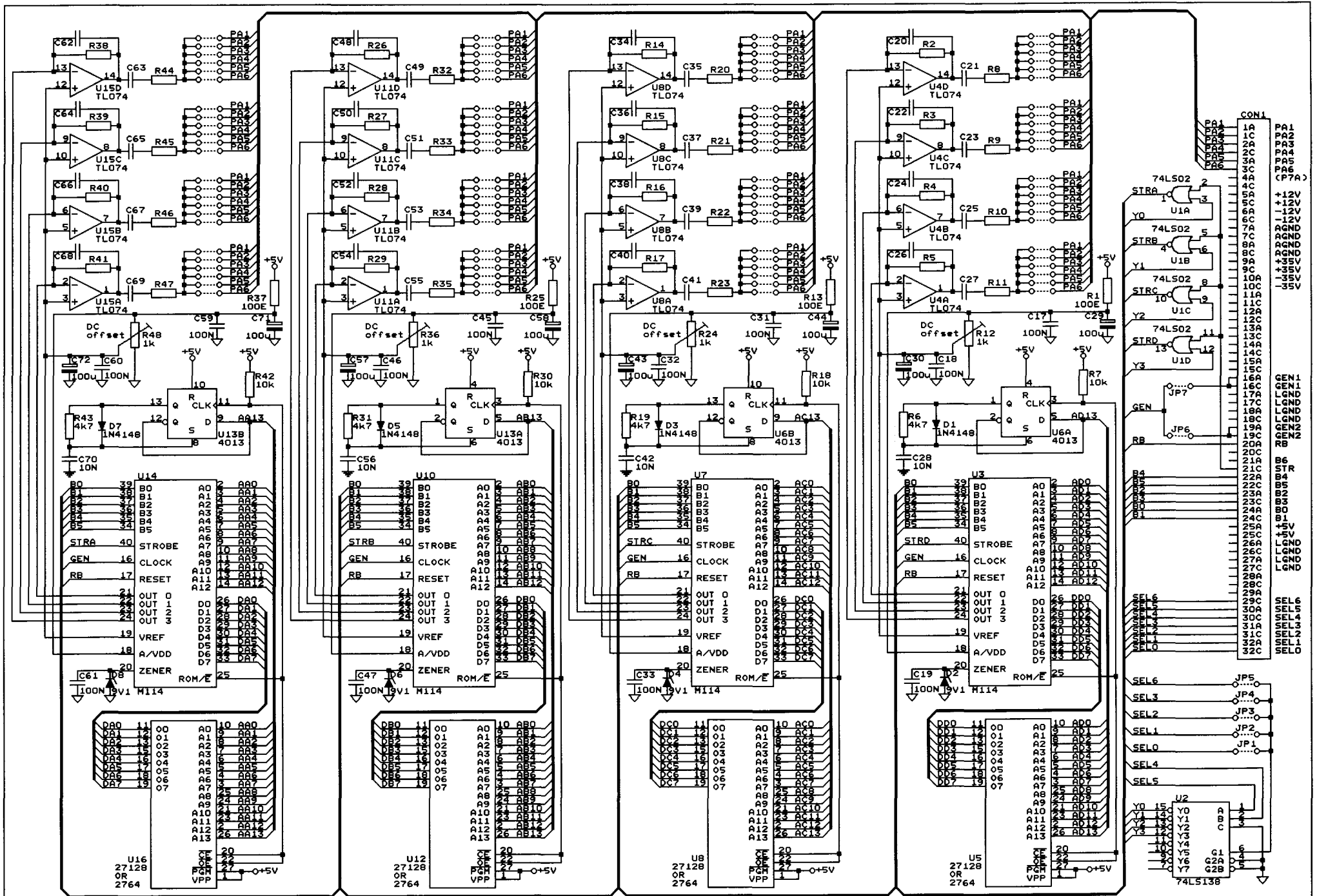
DESIGN		LAB		21-08-92	REV.	
DRAWN		VERSCHOOR				
WESLEY ALLEGRO					PAGE	7



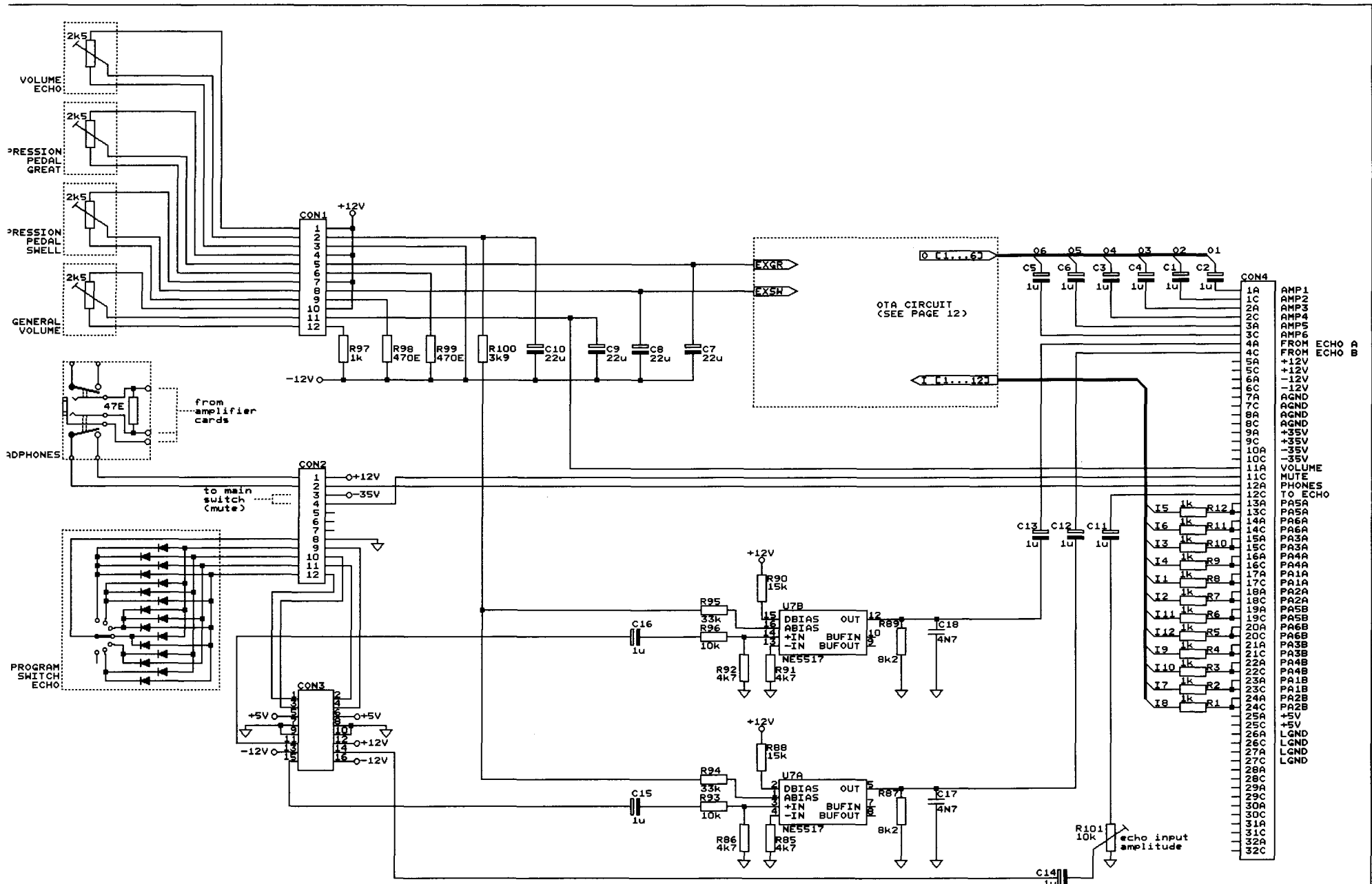
PROCESSOR CARD			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	21-08-92	PAGE
WESLEY ALLEGRO			8

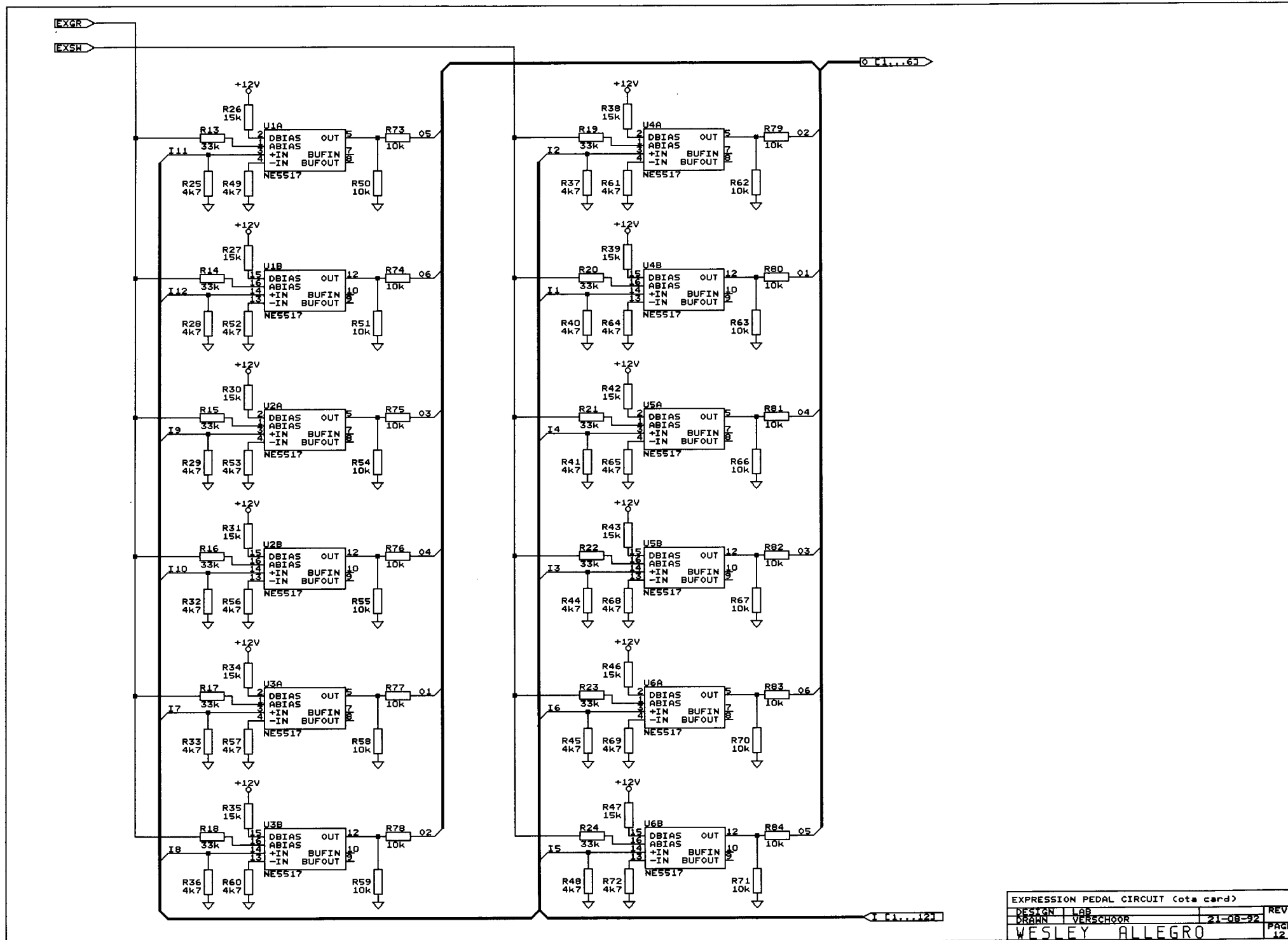


GENERATOR CARD			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	21-08-92	PAGE
WESLEY ALLEGRO			9

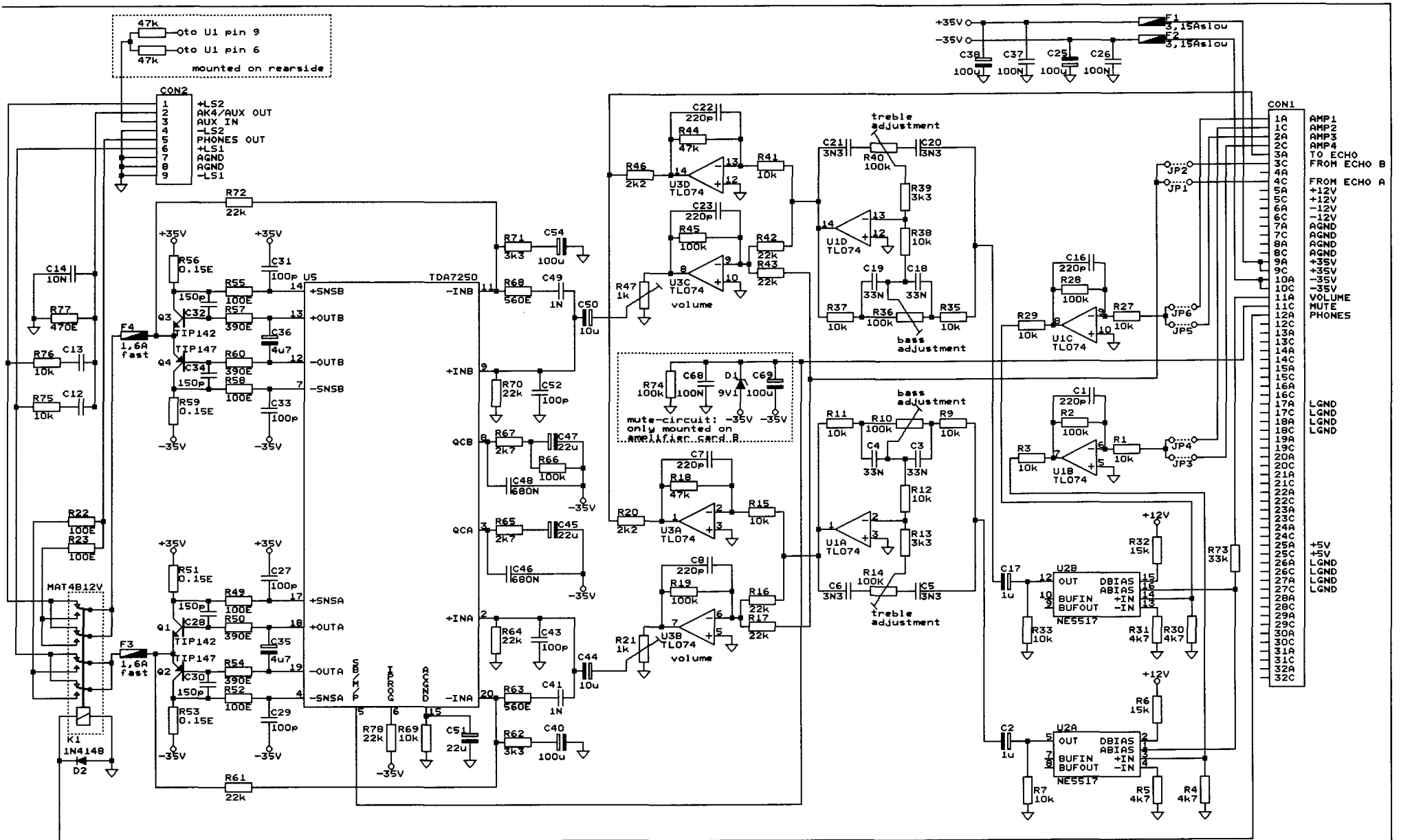


NOTE: IF FOR U5, U8, U12 OR U16 A 2764 EPROM IS PLACED INSTEAD OF A 27128 EPROM, THE 1/2 4013 (U6 AND U13) USED FOR SWITCHING THE UPPER 8K ROM AND THE LOWER 8K ROM, IS NOT NECESSARY.

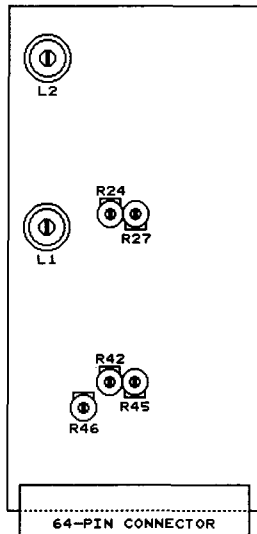




EXPRESSION PEDAL CIRCUIT (ota card)			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	21-08-92	PAGE
WESLEY ALLEGRO			12

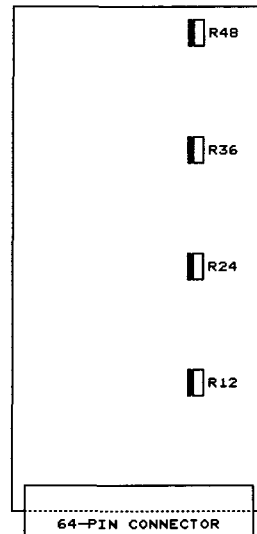


GENERATOR CARD
(COMPONENT-SIDE VIEW)



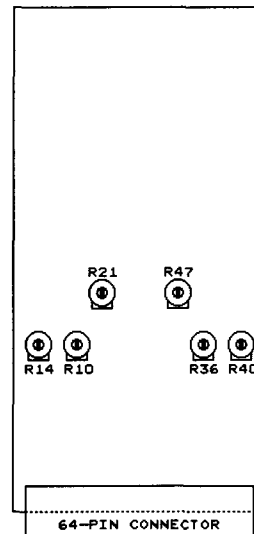
L1 = TUNING SWELL
 L2 = TUNING GREAT
 R24 = TREMLANT SPEED GREAT
 R27 = TREMLANT DEPTH GREAT
 R42 = TREMLANT SPEED SWELL
 R45 = TREMLANT DEPTH SWELL
 R46 = INTENSITY CHORUS EFFECT

VOICE CARD
(COMPONENT-SIDE VIEW)



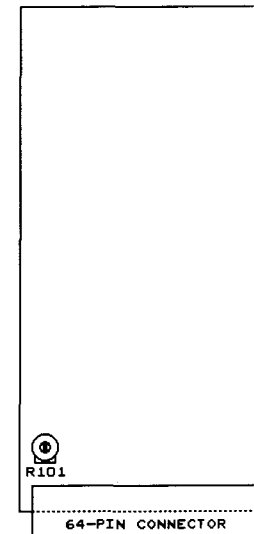
R12 = DC-OFFSET VOICE D
 (DISTORSION VOICE D)
 R24 = DC-OFFSET VOICE C
 (DISTORSION VOICE C)
 R36 = DC-OFFSET VOICE B
 (DISTORSION VOICE B)
 R48 = DC-OFFSET VOICE A
 (DISTORSION VOICE A)
 NOTE: R12-R24-R36-R48 ARE NOT
 FOR CHANGING VOLUMES!!
 TURNING THESE POTENTIOMETERS
 WILL GIVE DISTORSION!!

AMPLIFIER CARD
(COMPONENT-SIDE VIEW)



R10 = BASS LEFT AMPLIFIER
 R14 = TREBLE LEFT AMPLIFIER
 R21 = VOLUME LEFT AMPLIFIER
 R36 = BASS RIGHT AMPLIFIER
 R40 = TREBLE RIGHT AMPLIFIER
 R47 = VOLUME RIGHT AMPLIFIER

OTA CARD
(COMPONENT-SIDE VIEW)



R101 = INPUT AMPLITUDE ECHO