

WESLEY

MADE BY JOHANNUS

SCHMATIC DIAGRAMS
W E S L E Y 3 0
W E S L E Y 2 7
W E S L E Y 1 3

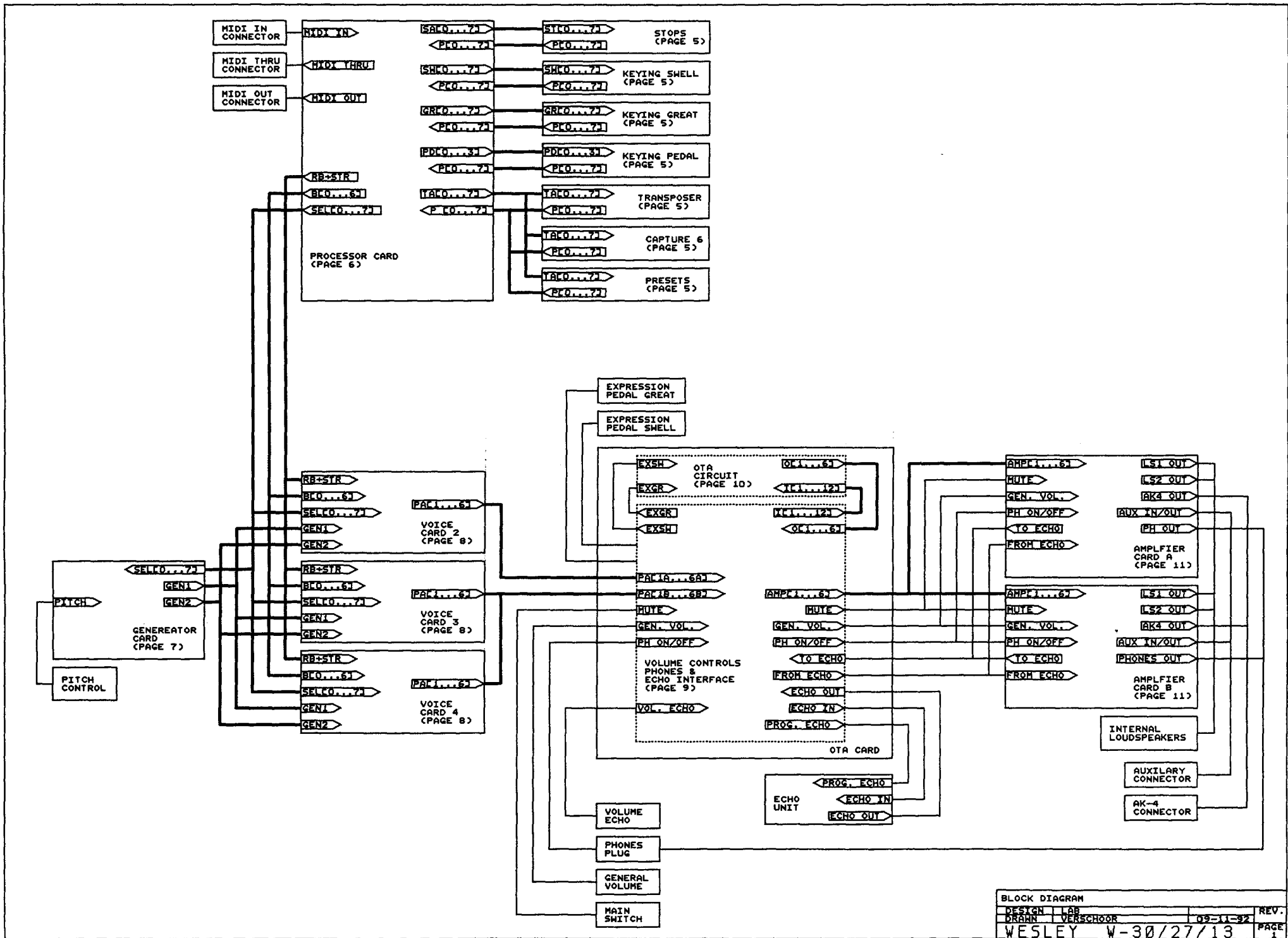
ALTERATIONS RESERVED

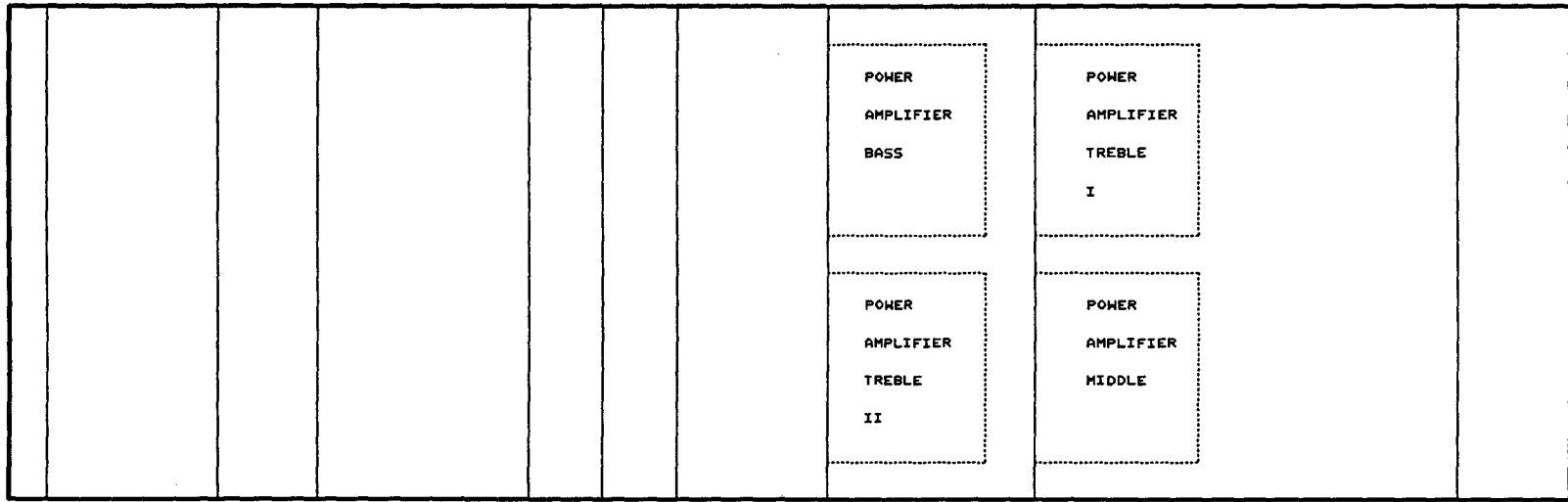
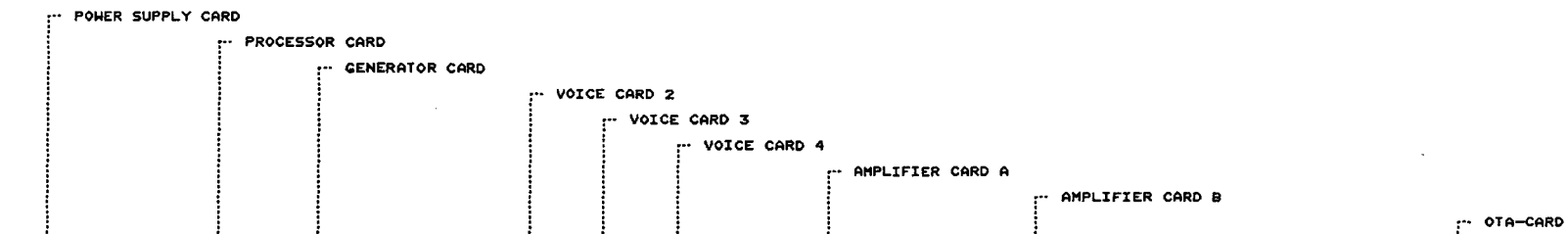
WESLEY Organs b.v.

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; STOPS; TRANSPOSER;
PRESETS & CAPTURE 6
6. PROCESSOR CARD
7. GENERATOR CARD
8. VOICE CARD
9. VOLUMECONTROLS; HEADPHONES CONNECTIONS &
ECHO INTERFACE (ota card)
10. EXPRESSION PEDAL CIRCUIT (ota card)
11. AMPLIFIER CARD
12. POSITION DIAGRAM ADJUSTMENTS
INTERNAL POTENTIOMETERS





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

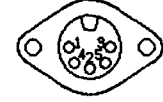
SOLDERING SIDE VIEW

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

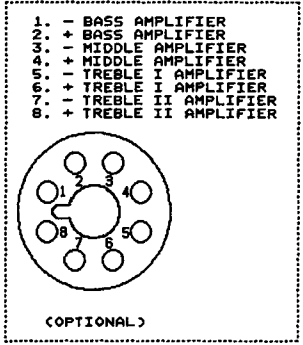


AK-4 OUT

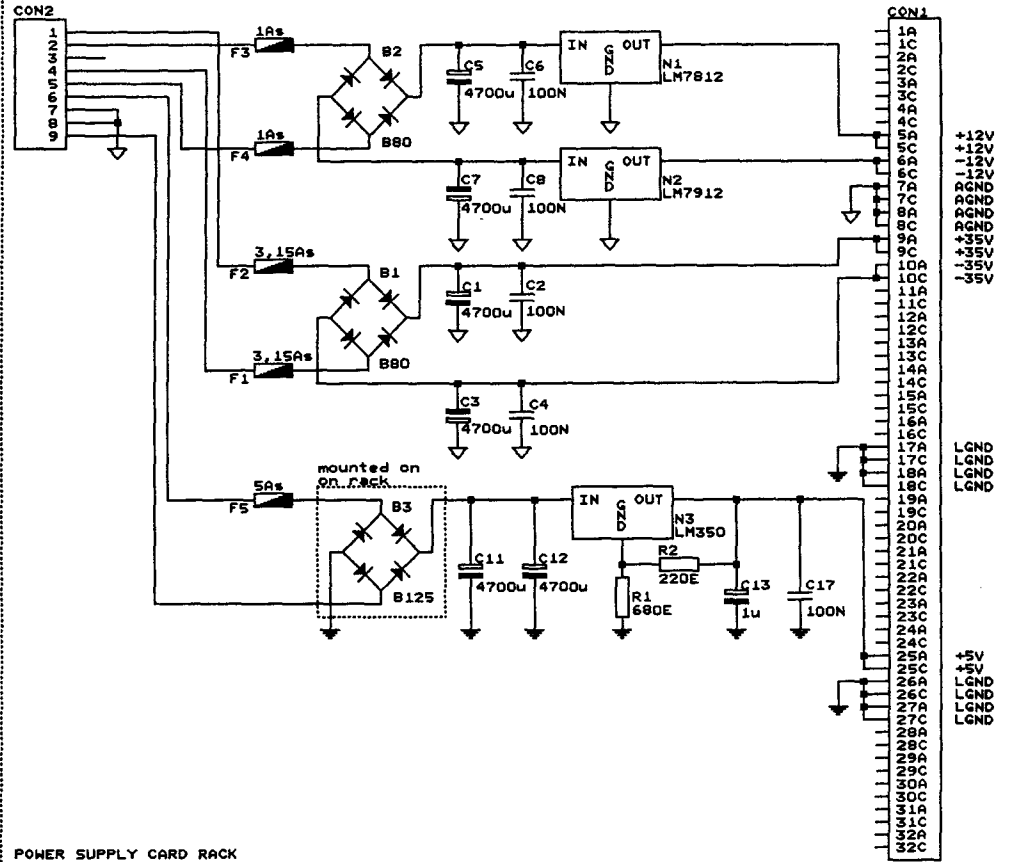
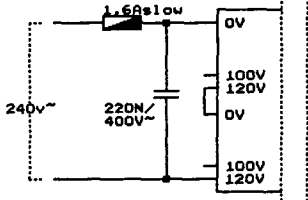
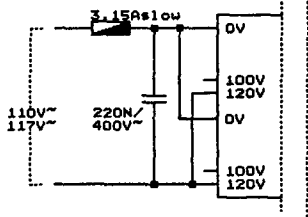
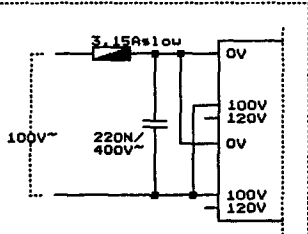
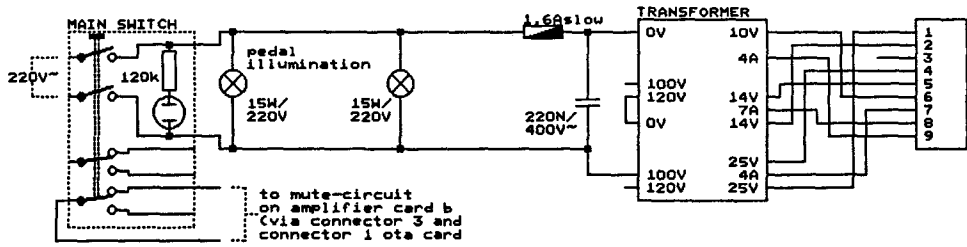
1. AUX OUT CHANNEL A
2. GROUND
3. AUX IN CHANNEL A
4. AUX OUT CHANNEL B
5. AUX IN CHANNEL B



AUX IN/OUT

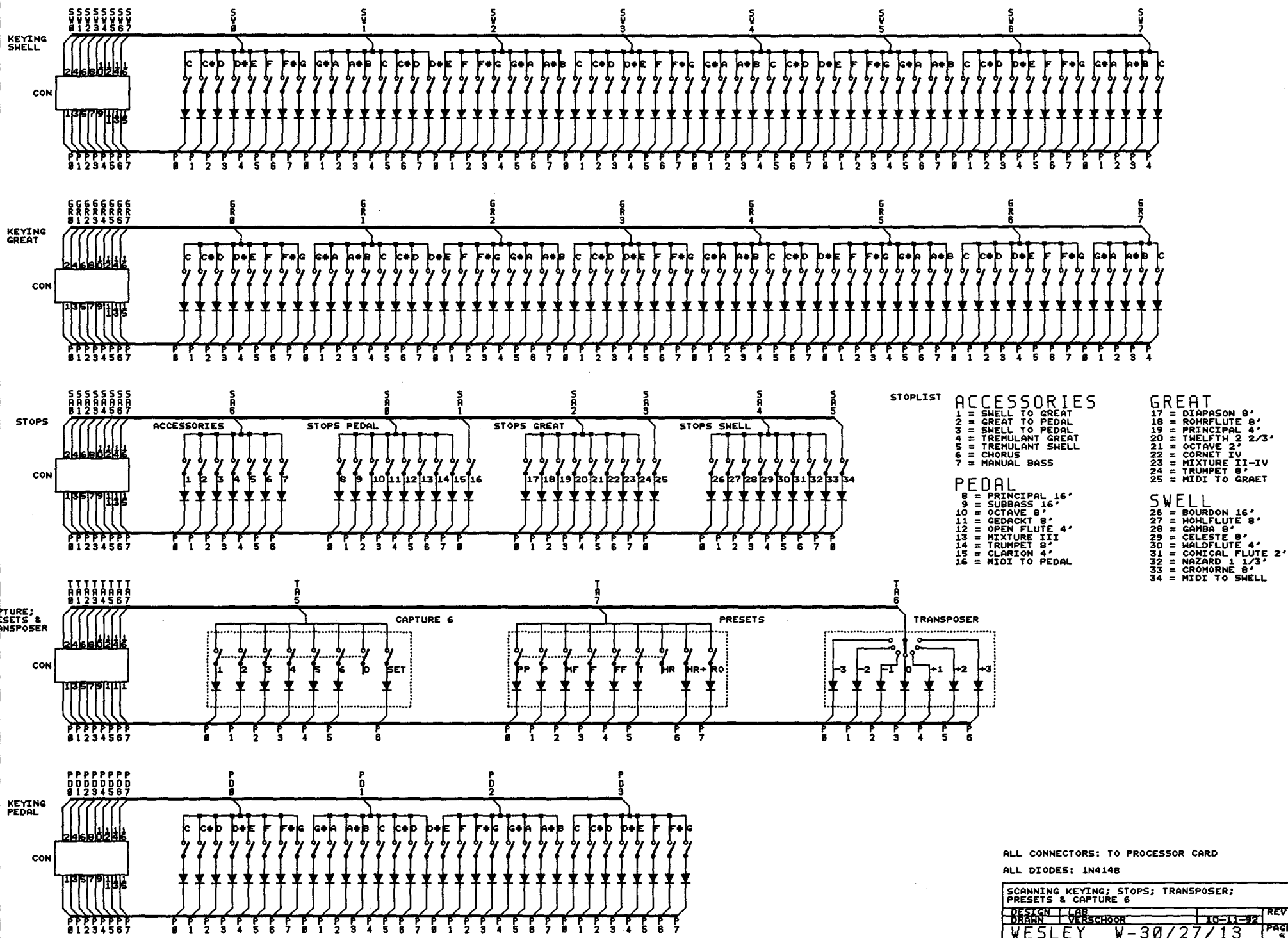


<p>CON1</p> <p>015 020 030 040 050 060 070 080 090 010 0120 0130 0140 0150 0160 0170 0180 0190 0200 0210 0220 0230 0240 0250 0270 0280 0290 0300 0310 0320 0330</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>LGND LGND</p> <p>+5V LGND</p> <p>POWER SUPPLY CARD</p>	<p>CON2</p> <p>015 020 030 040 050 060 070 080 090 010 0120 0130 0140 0150 0160 0170 0180 0190 0200 0210 0220 0230 0240 0250 0270 0280 0290 0300 0310 0320 0330</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>LGND LGND</p> <p>RB B6 B4 B2 B0 +5V LGND</p> <p>LGND LGND</p> <p>CHOISE STR B5 B3 B1 +5V LGND</p> <p>LGND LGND</p> <p>SEL7 SEL5 SEL3 SEL1</p> <p>PROCESSOR CARD</p>	<p>CON3</p> <p>015 020 030 040 050 060 070 080 090 010 0120 0130 0140 0150 0160 0170 0180 0190 0200 0210 0220 0230 0240 0250 0270 0280 0290 0300 0310 0320 0330</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>GEN1 LGND LGND GEN2 RB B6 B4 B2 B0 +5V LGND</p> <p>GEN1 LGND LGND GEN2 CHOISE STR B5 B3 B1 +5V LGND</p> <p>LGND LGND</p> <p>SEL7 SEL5 SEL3 SEL1</p> <p>GENERATOR CARD</p>	<p>CON4-5</p> <p>PA1B PA3B PA5B 015 020 030 040 050 060 070 080 090 010 0120 0130 0140 0150 0160 0170 0180 0190 0200 0210 0220 0230 0240 0250 0270 0280 0290 0300 0310 0320 0330</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>GEN1 LGND LGND GEN2 RB B6 B4 B2 B0 +5V LGND</p> <p>GEN1 LGND LGND GEN2 CHOISE STR B5 B3 B1 +5V LGND</p> <p>LGND LGND</p> <p>SEL7 SEL5 SEL3 SEL1</p> <p>VOICE CARD 1-2</p>	<p>CON6-8</p> <p>PA1A PA3A PA5A 015 020 030 040 050 060 070 080 090 010 0120 0130 0140 0150 0160 0170 0180 0190 0200 0210 0220 0230 0240 0250 0270 0280 0290 0300 0310 0320 0330</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>GEN1 LGND LGND GEN2 RB B6 B4 B2 B0 +5V LGND</p> <p>GEN1 LGND LGND GEN2 CHOISE STR B5 B3 B1 +5V LGND</p> <p>LGND LGND</p> <p>SEL7 SEL5 SEL3 SEL1</p> <p>VOICE CARD 3-5</p>	<p>CON9-10</p> <p>AMP1 AMP3 AMP5 015 020 030 040 050 060 070 080 090 010 0120 0130 0140 0150 0160 0170 0180 0190 0200 0210 0220 0230 0240 0250 0270 0280 0290 0300 0310 0320 0330</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>LGND LGND</p> <p>+5V LGND</p> <p>AMPLIFIER CARD A & B</p>	<p>CON11</p> <p>AMP3 AMP5 AMP7 015 020 030 040 050 060 070 080 090 010 0120 0130 0140 0150 0160 0170 0180 0190 0200 0210 0220 0230 0240 0250 0270 0280 0290 0300 0310 0320 0330</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>LGND LGND</p> <p>+5V LGND</p> <p>AMPLIFIER CARD C</p>	<p>CON12</p> <p>AMP1 AMP3 AMP5 015 020 030 040 050 060 070 080 090 010 0120 0130 0140 0150 0160 0170 0180 0190 0200 0210 0220 0230 0240 0250 0270 0280 0290 0300 0310 0320 0330</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>+12V -12V AGND AGND +35V -35V</p> <p>VOLUME PHONES</p> <p>LGND LGND</p> <p>+5V LGND</p> <p>OTA CARD</p>
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POWER SUPPLY CARD RACK

TRANSFORMER CONNECTIONS & POWER SUPPLY			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	09-11-92	PAGE
WESLEY W-30/27/13			4



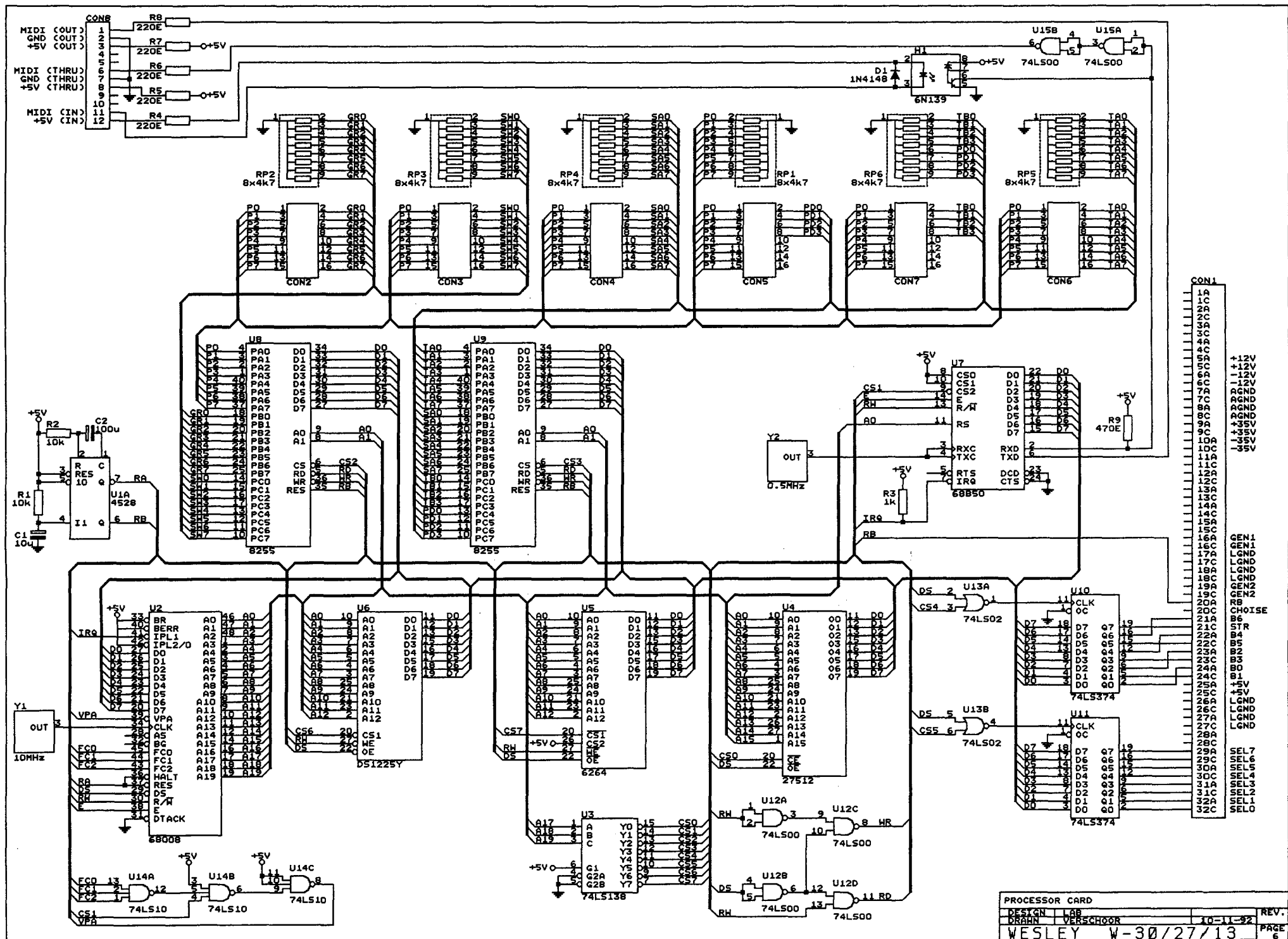
- STOPLIST
 - 1 = SWELL TO GREAT
 - 2 = GREAT TO PEDAL
 - 3 = SWELL TO PEDAL
 - 4 = TREMULANT GREAT
 - 5 = TREMULANT SWELL
 - 6 = CHORUS
 - 7 = MANUAL BASS
- ACCESSORIES
 - 8 = PRINCIPAL 16'
 - 9 = SUBBASS 16'
 - 10 = OCTAVE 8'
 - 11 = GEDRACKT 8'
 - 12 = OPEN FLUTE 4'
 - 13 = MIXTURE III
 - 14 = TRUMPET 8'
 - 15 = CLARION 4'
 - 16 = MIDI TO PEDAL
- GREAT
 - 17 = DIAPASON 8'
 - 18 = ROHRFLUTE 8'
 - 19 = PRINCIPAL 4'
 - 20 = TWELFTH 2 2/3'
 - 21 = OCTAVE 2'
 - 22 = CORNET IV
 - 23 = MIXTURE II-IV
 - 24 = TRUMPET 8'
 - 25 = MIDI TO GREAT
- SWELL
 - 26 = BOURDON 16'
 - 27 = HOHLFLUTE 8'
 - 28 = GAMBA 8'
 - 29 = CELESTE 8'
 - 30 = HALDFLUTE 4'
 - 31 = CONICAL FLUTE 2'
 - 32 = NAZARD 1 1/3'
 - 33 = CROMORNE 8'
 - 34 = MIDI TO SWELL

ALL CONNECTORS: TO PROCESSOR CARD

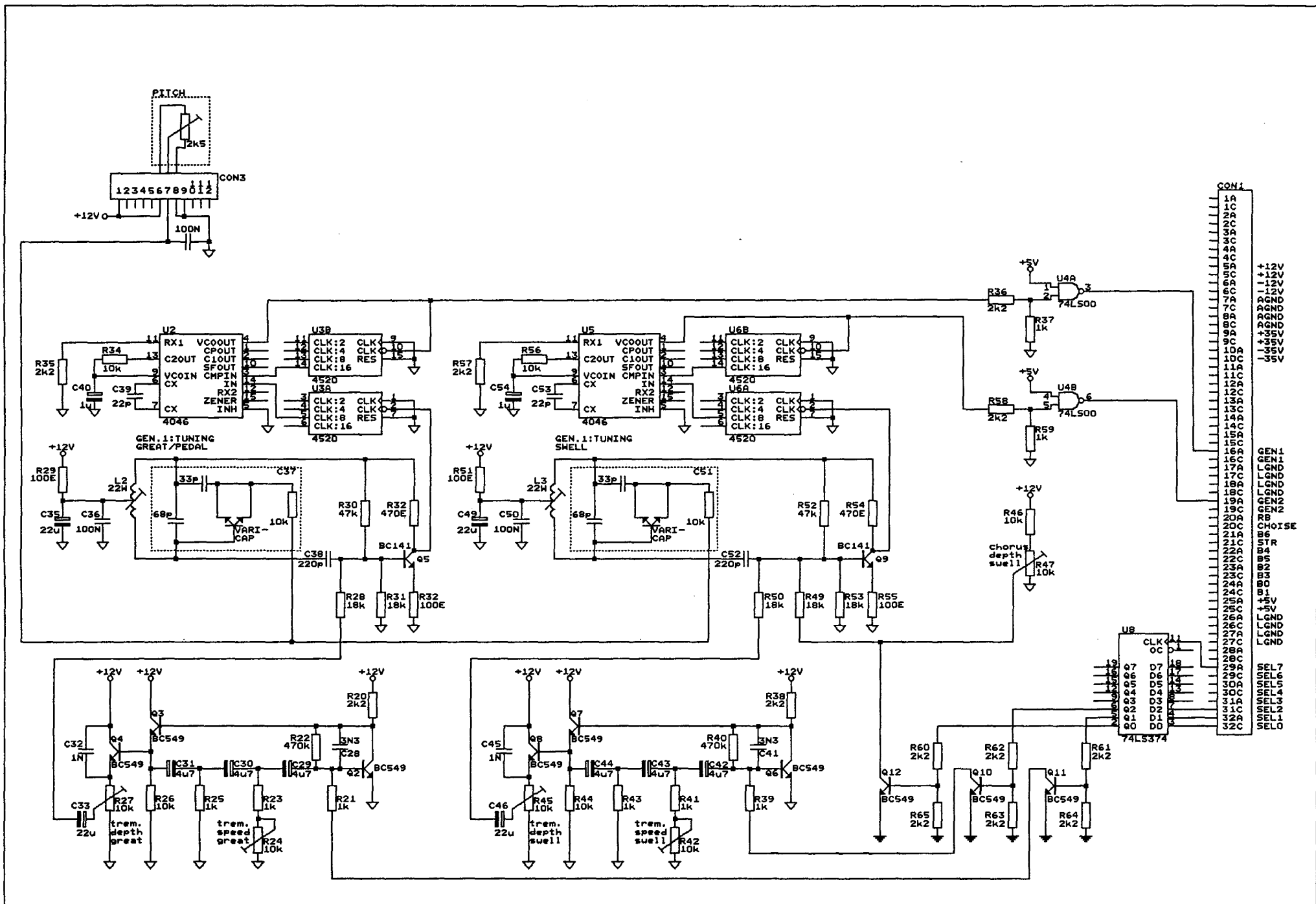
ALL DIODES: 1N4148

SCANNING KEYING; STOPS; TRANSPOSER; PRESETS & CAPTURE 6

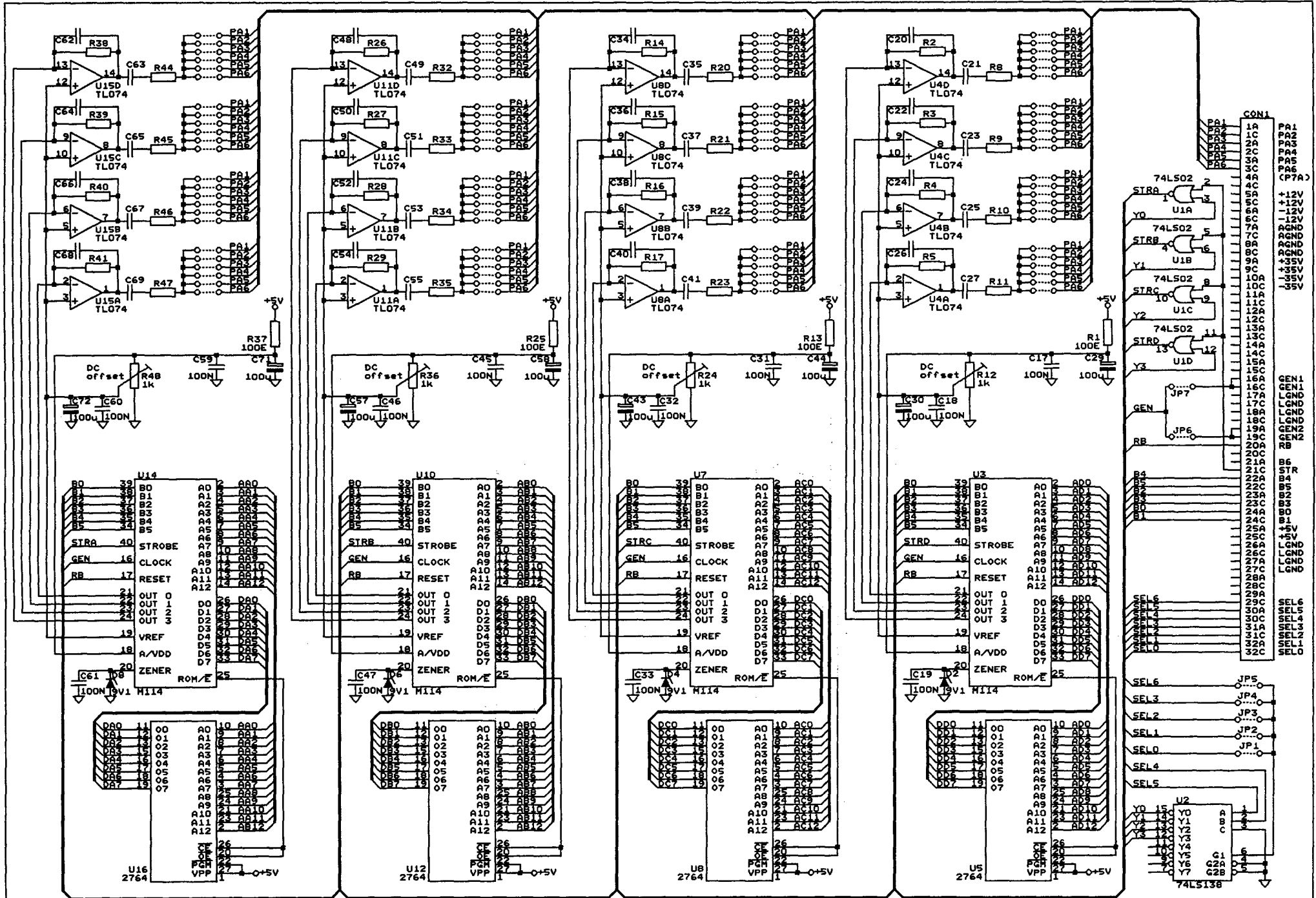
DESIGN	LAB	REV.
DRAHN	VERSCHOOR	10-11-82
WESLEY W-30/27/13		PAGE 5

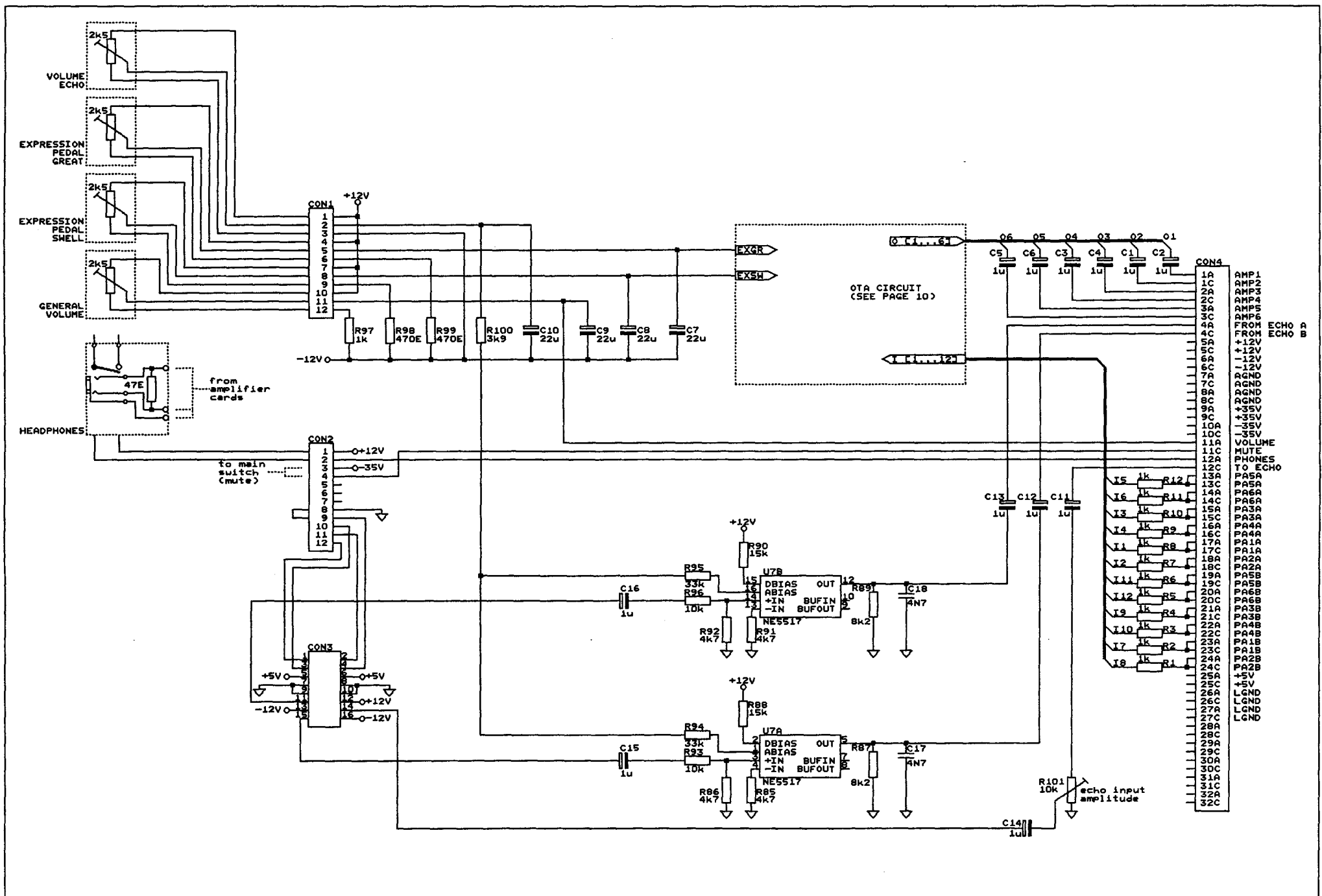


PROCESSOR CARD			REV.
DESIGN	LAB		
DRAWN	VERSCHOOR	10-11-92	
WESLEY W-30/27/13			PAGE 6



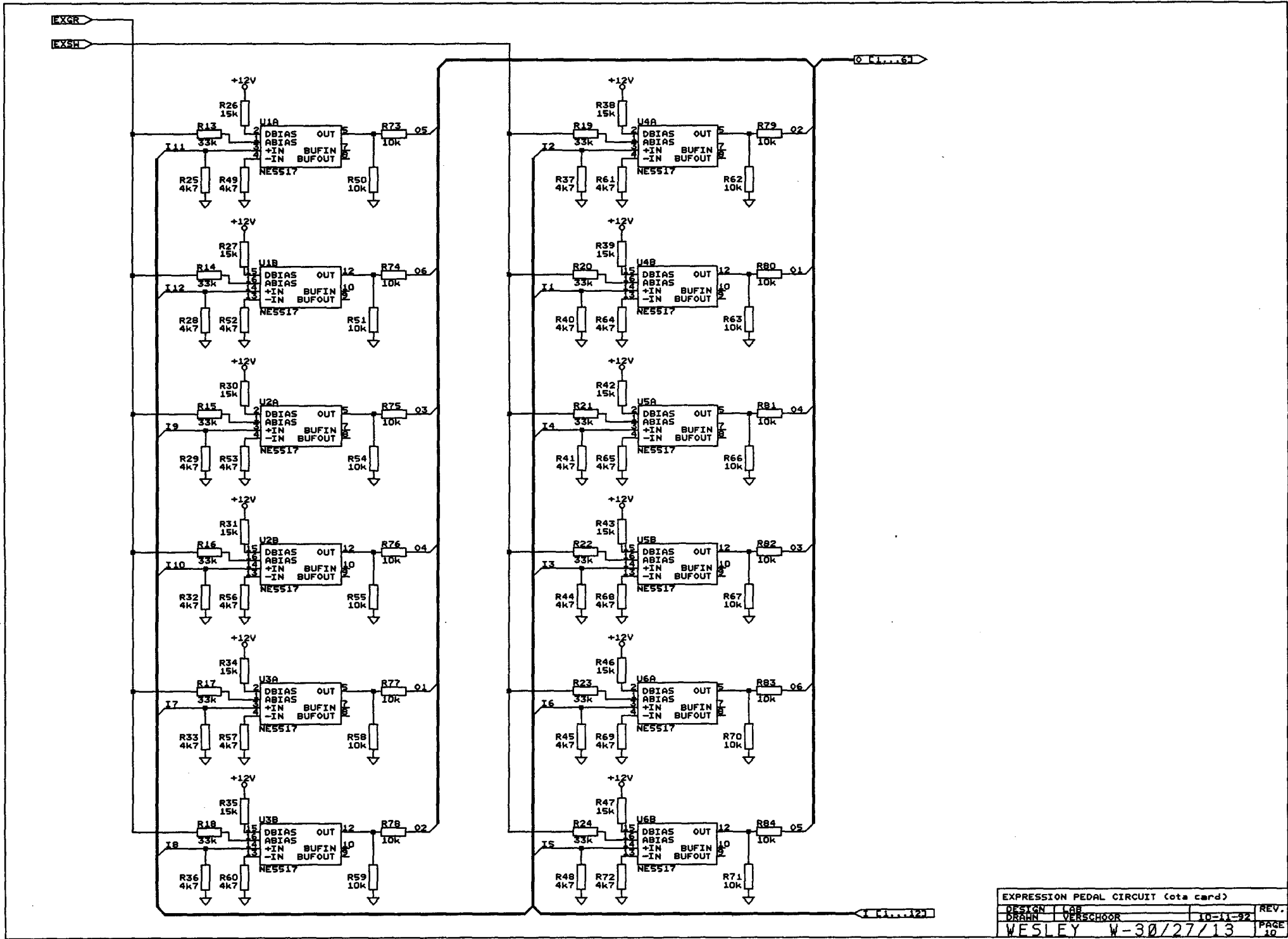
GENERATOR CARD				REV.
DESIGN	LAB			
DRAWN	VERSCHOOR		10-11-92	PAGE
WESLEY W-30/27/13				7



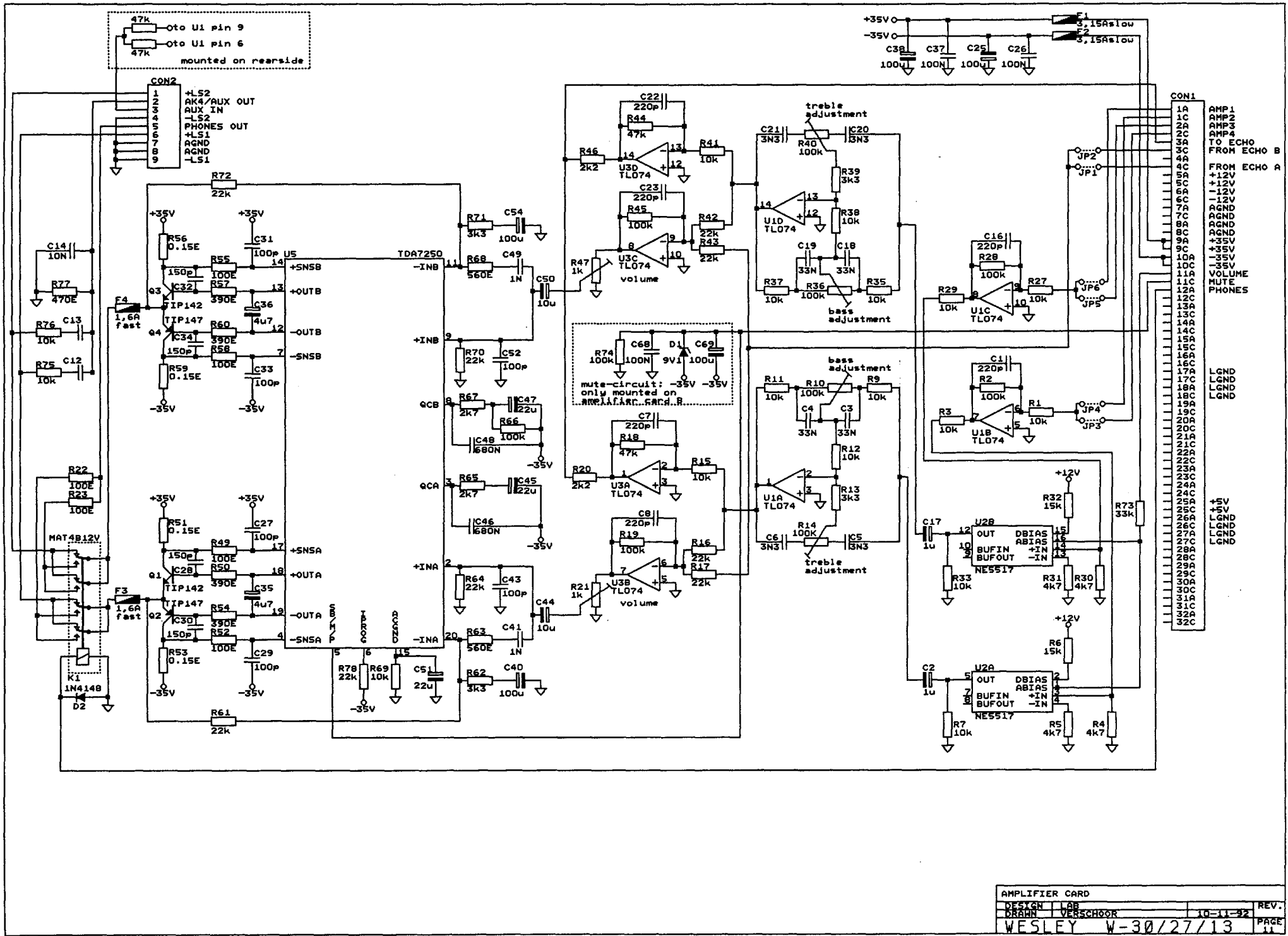


- 1A AMP1
- 1C AMP2
- 2A AMP3
- 2C AMP4
- 3A AMP5
- 3C AMP6
- 4A FROM ECHO A
- 4C FROM ECHO B
- 5A +12V
- 5C +12V
- 6A -12V
- 6C -12V
- 7A AGND
- 7C AGND
- 8A AGND
- 8C AGND
- 9A +35V
- 9C +35V
- 10A -35V
- 10C -35V
- 11A VOLUME
- 11C MUTE
- 12A PHONES
- 12C TO ECHO
- 13A PA5A
- 13C PA5A
- 14A PA6A
- 14C PA6A
- 15A PA3A
- 15C PA3A
- 16A PA4A
- 16C PA4A
- 17A PA1A
- 17C PA1A
- 18A PA2A
- 18C PA2A
- 19A PA5B
- 19C PA5B
- 20A PA6B
- 20C PA6B
- 21A PA3B
- 21C PA3B
- 22A PA4B
- 22C PA4B
- 23A PA1B
- 23C PA1B
- 24A PA2B
- 24C PA2B
- 25A +5V
- 25C +5V
- 26A LGND
- 26C LGND
- 27A LGND
- 27C LGND
- 28A
- 28C
- 29A
- 29C
- 30A
- 30C
- 31A
- 31C
- 32A
- 32C

VOLUME CONTROLS; HEADPHONES CONNECTIONS & ECHO INTERFACE (ota card)		
DESIGN	WESLEY	REV.
DRAWN	VERSCHOOR	10-11-92
WESLEY W-30/27/13		PAGE 2

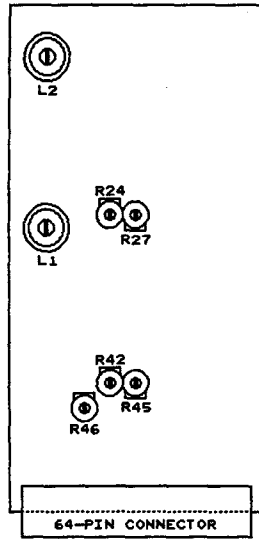


EXPRESSION PEDAL CIRCUIT (Cota card)		
DESIGN	LAB	REV.
DRAWN	VERSCHOOR	10-11-92
WESLEY W-30/27/13		PAGE 10



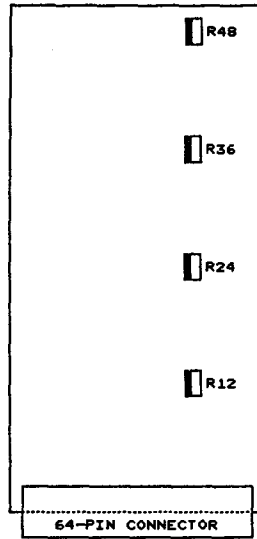
AMPLIFIER CARD			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	10-11-92	PAGE
WESLEY W-30/27/13			

GENERATOR CARD
(COMPONENT-SIDE VIEW)



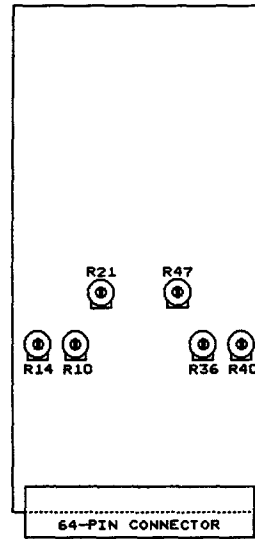
- L1 = TUNING SWELL
- L2 = TUNING GREAT
- R24 = TREMULANT SPEED GREAT
- R27 = TREMULANT DEPTH GREAT
- R42 = TREMULANT SPEED SWELL
- R45 = TREMULANT DEPTH SWELL
- R46 = INTENSITY CHORUS EFFECT

VOICE CARD
(COMPONENT-SIDE VIEW)



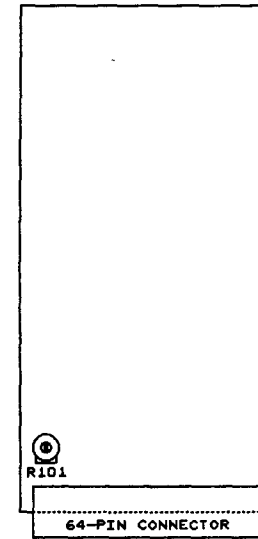
- R12 = DC-OFFSET VOICE D
(DISTORSION VOICE D)
 - R24 = DC-OFFSET VOICE C
(DISTORSION VOICE C)
 - R36 = DC-OFFSET VOICE B
(DISTORSION VOICE B)
 - R48 = DC-OFFSET VOICE A
(DISTORSION VOICE A)
- NOTE: R12-R24-R36-R48 ARE NOT
FOR CHANGING VOLUMES!!
TURNING THESE POTENTIOMETERS
WILL GIVE DISTORSION!!

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