

WESLEY ORGANS

SCHEMATIC DIAGRAMS

W E S L E Y 4 2

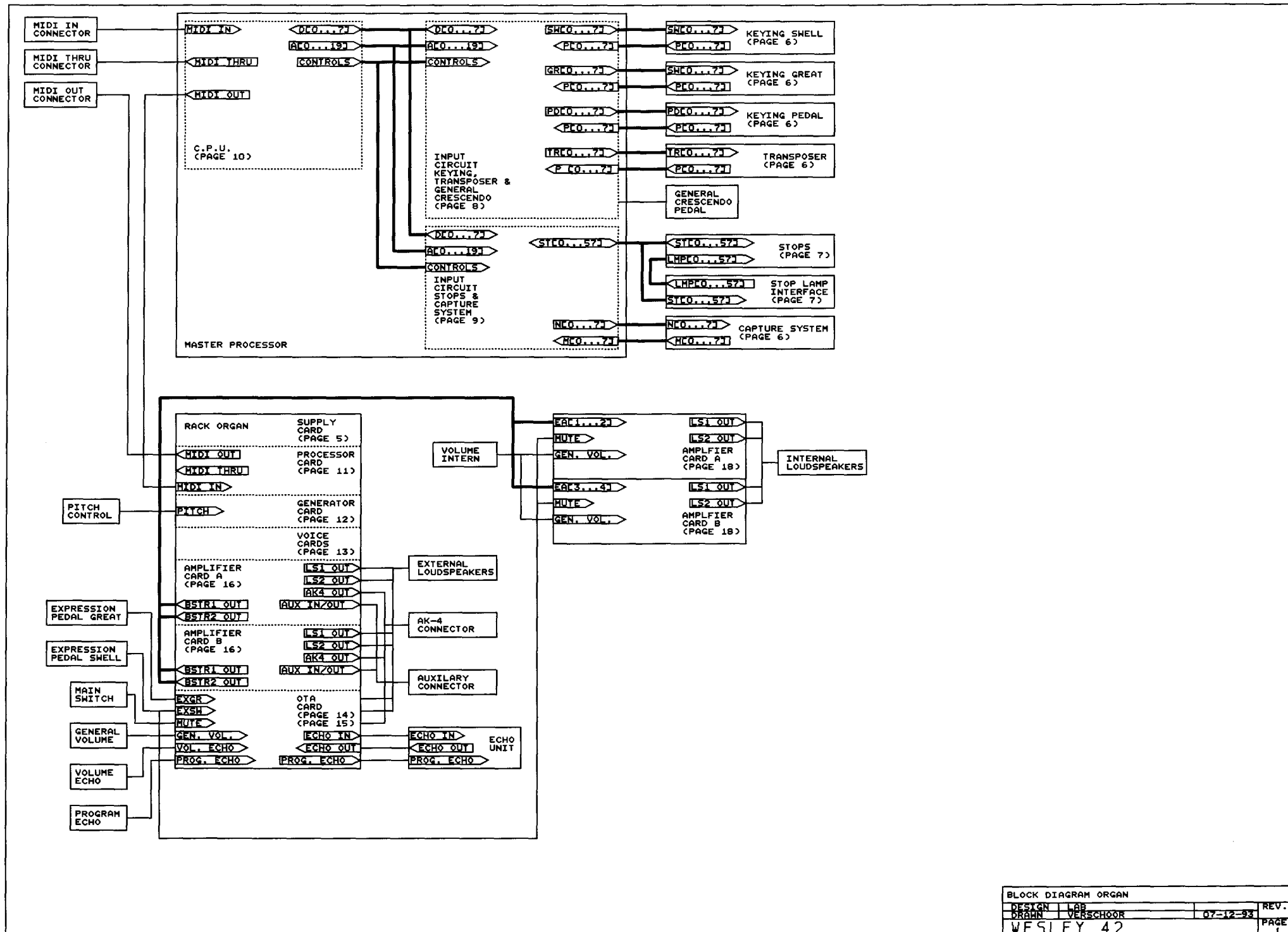
ALTERATIONS RESERVED

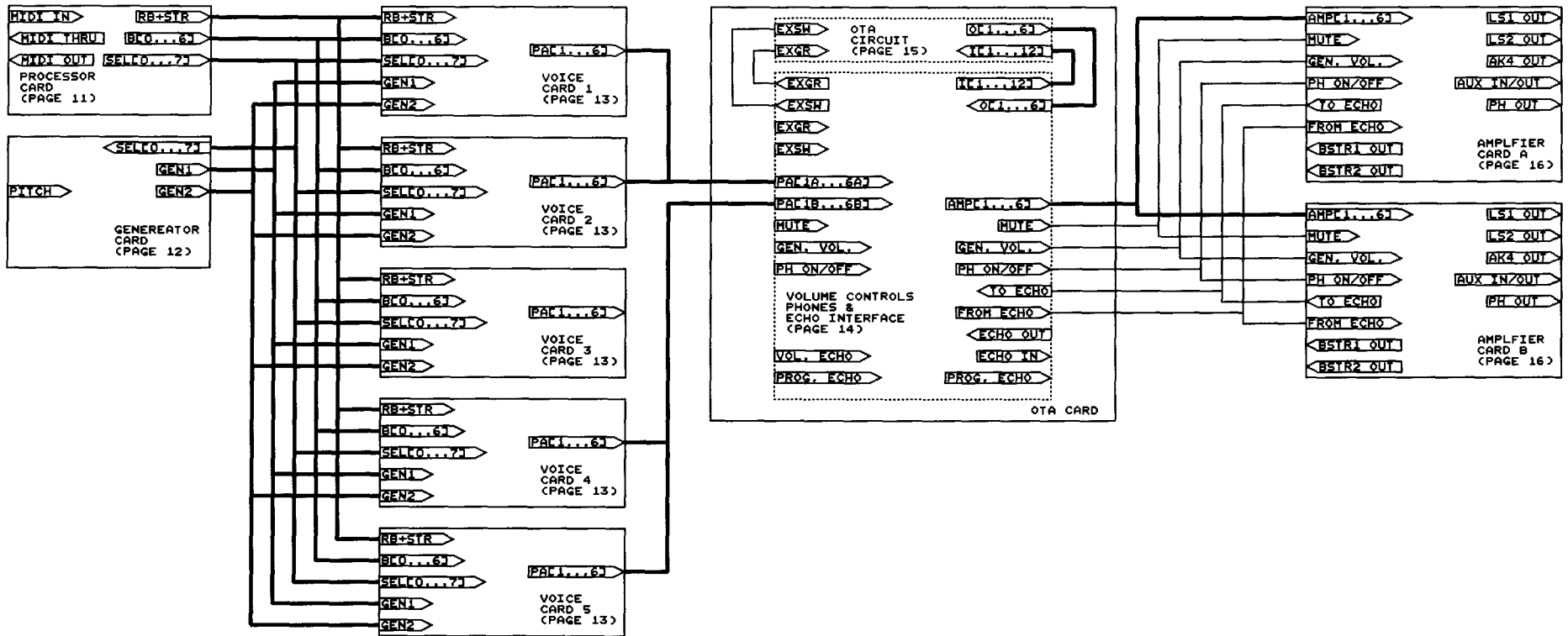
SAMICK ORGAN COMPANY

316-48 Hyosung-Dong - PUK-GU, INCHON - KOREA - Tel. (02) 778-1112 - Fax (02) 776-3357

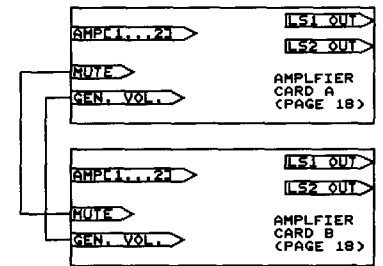
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INTERNAL POTENTIOMETERS

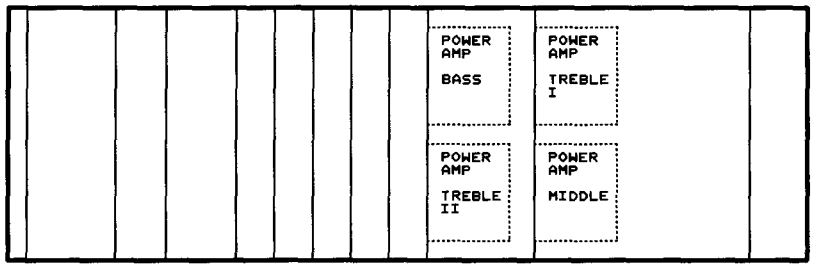
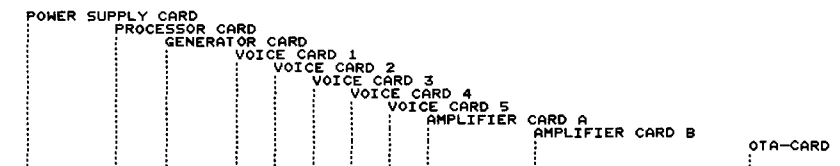




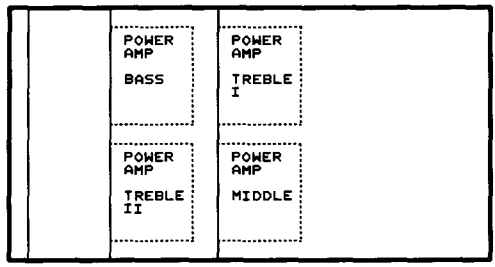
RACK ORGAN



RACK EXTRA AMPLIFIER

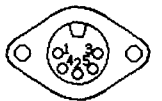


RACK ORGAN



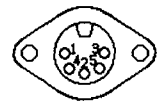
RACK EXTRA AMPLIFIERS

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



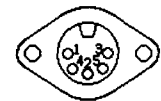
MIDI IN

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

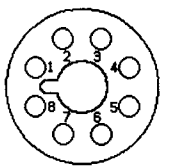
1. AUX OUT CHANNEL A
2. GROUND
3. AUX IN CHANNEL A
4. AUX OUT CHANNEL B
5. AUX IN CHANNEL B



AUX IN/OUT

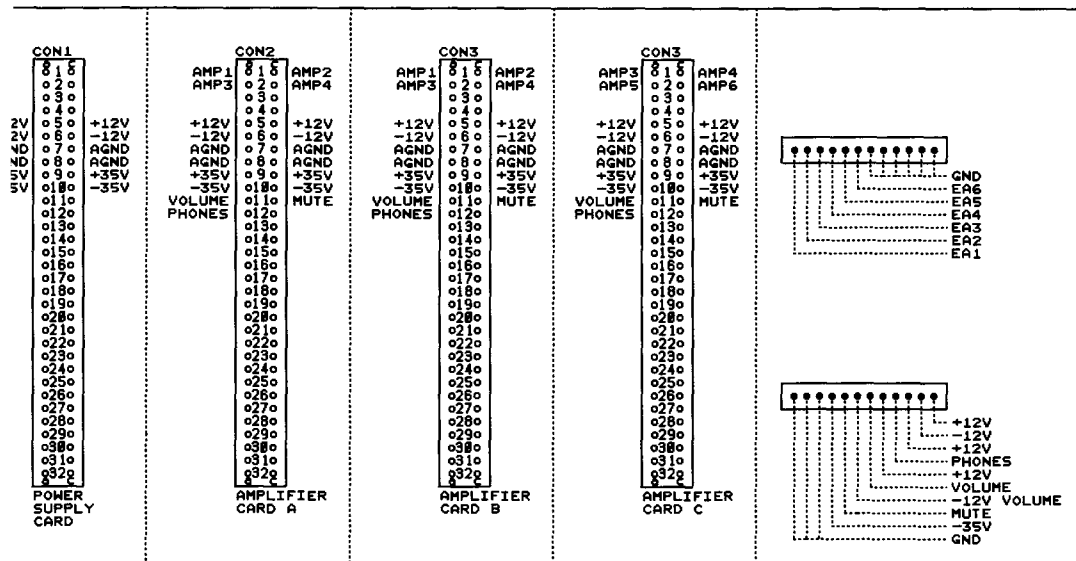
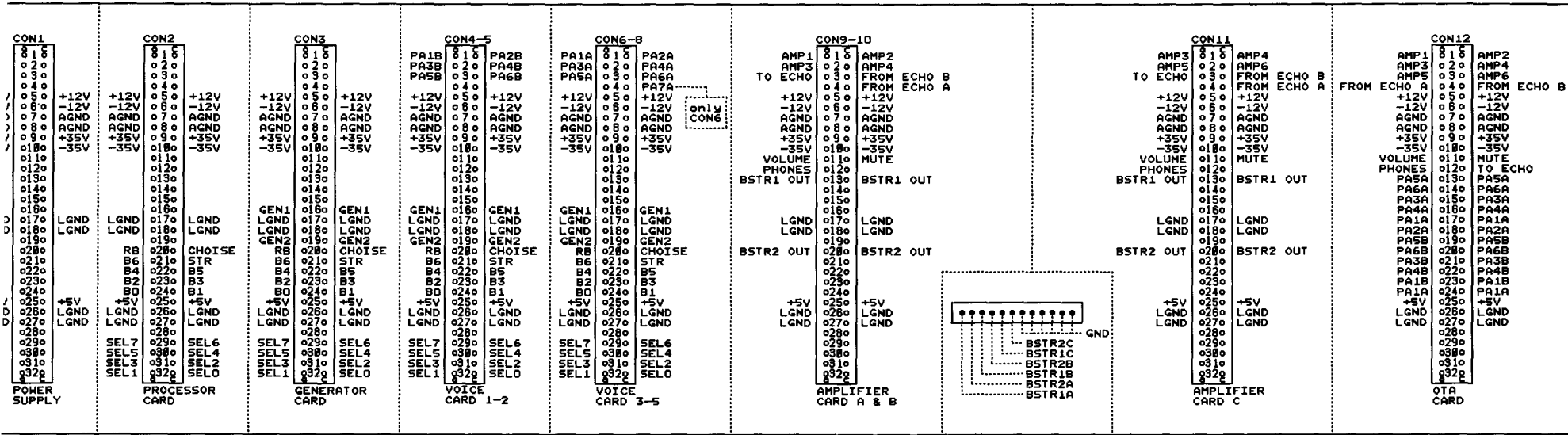
SOLDERSIDE VIEW

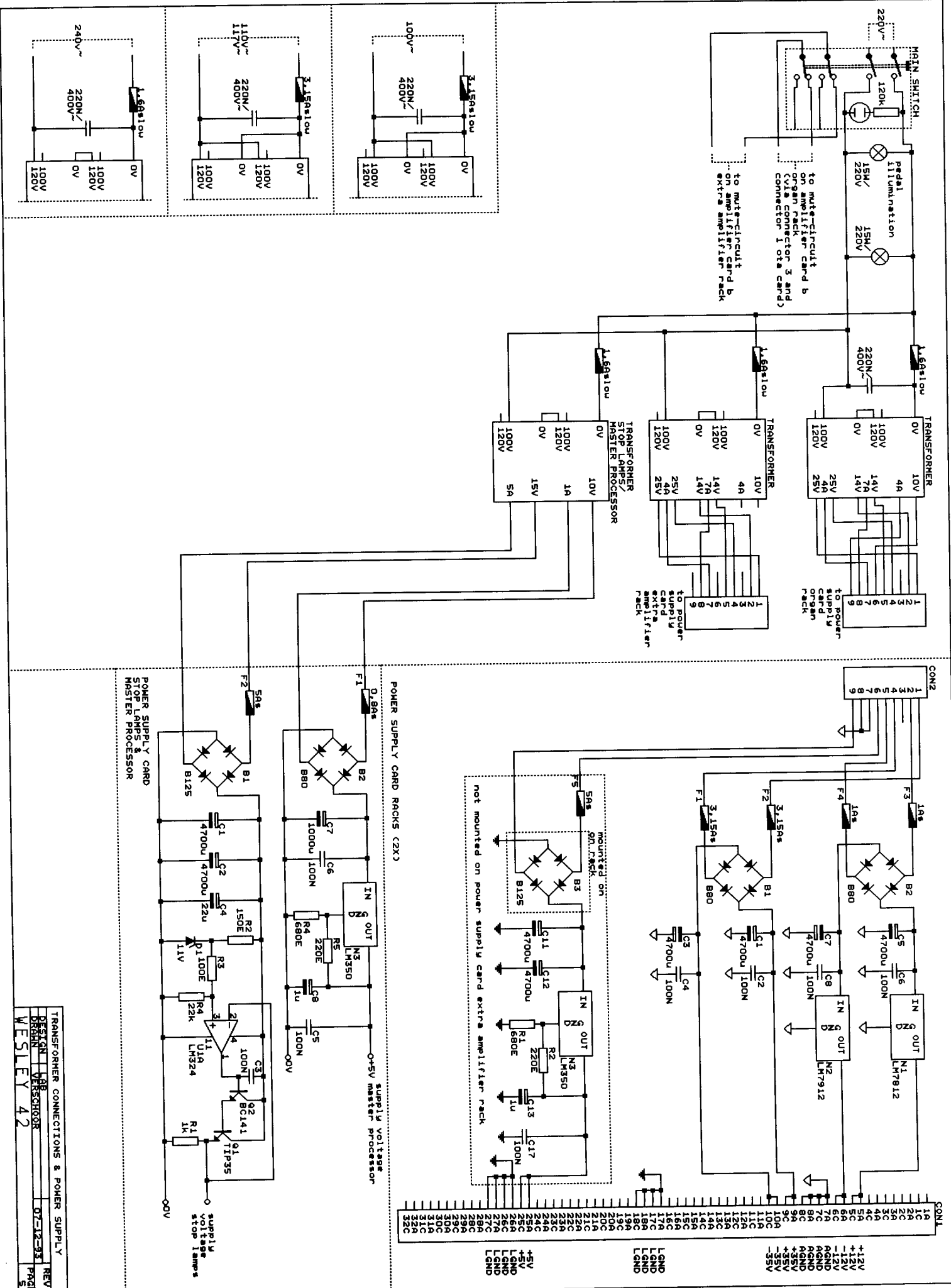
1. - BASS AMPLIFIER
2. + BASS AMPLIFIER
3. - MIDDLE AMPLIFIER
4. + MIDDLE AMPLIFIER
5. - TREBLE I AMPLIFIER
6. + TREBLE I AMPLIFIER
7. - TREBLE II AMPLIFIER
8. + TREBLE II AMPLIFIER



LS OUT

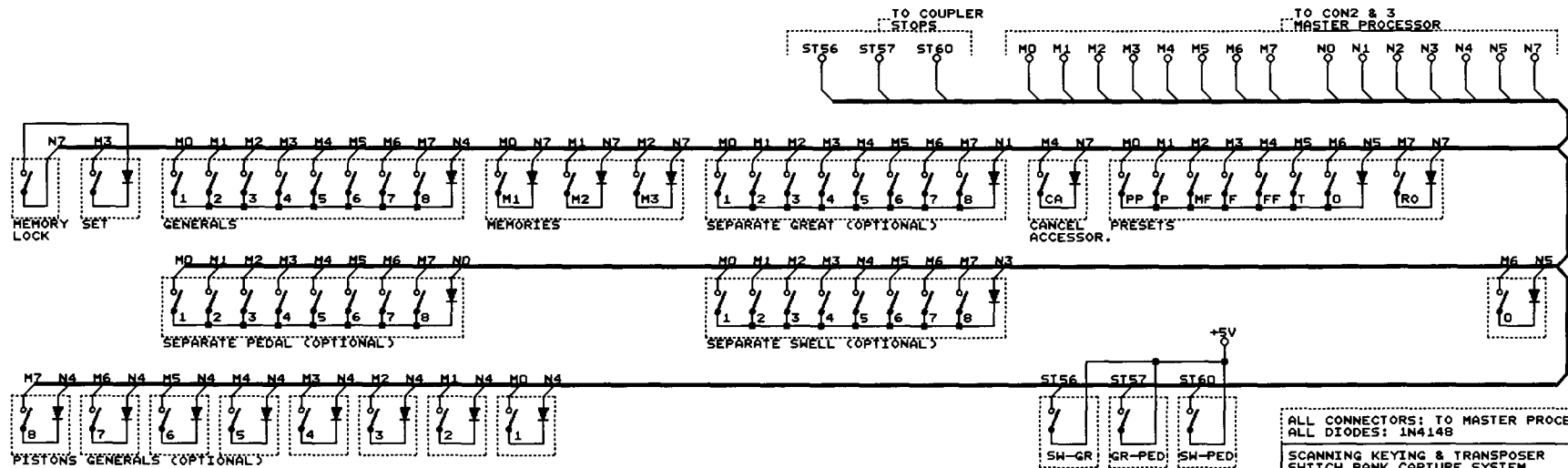
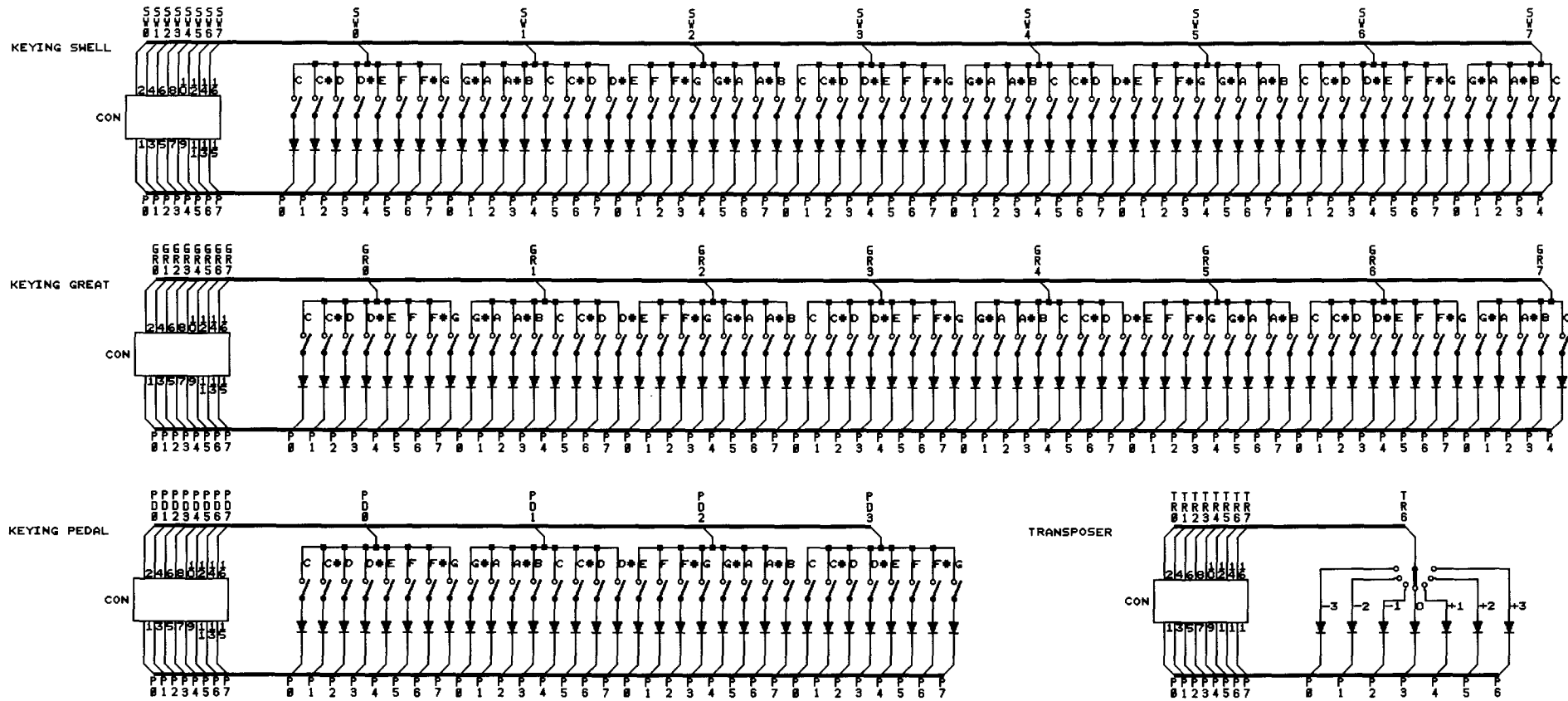
POSITION DIAGRAM CARDS (TOPVIEW) & EXTERNAL CONNECTIONS (mounted on the reverse side of the organ)			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	07-12-98	PAGE
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TRANSFORMER CONNECTIONS & POWER SUPPLY

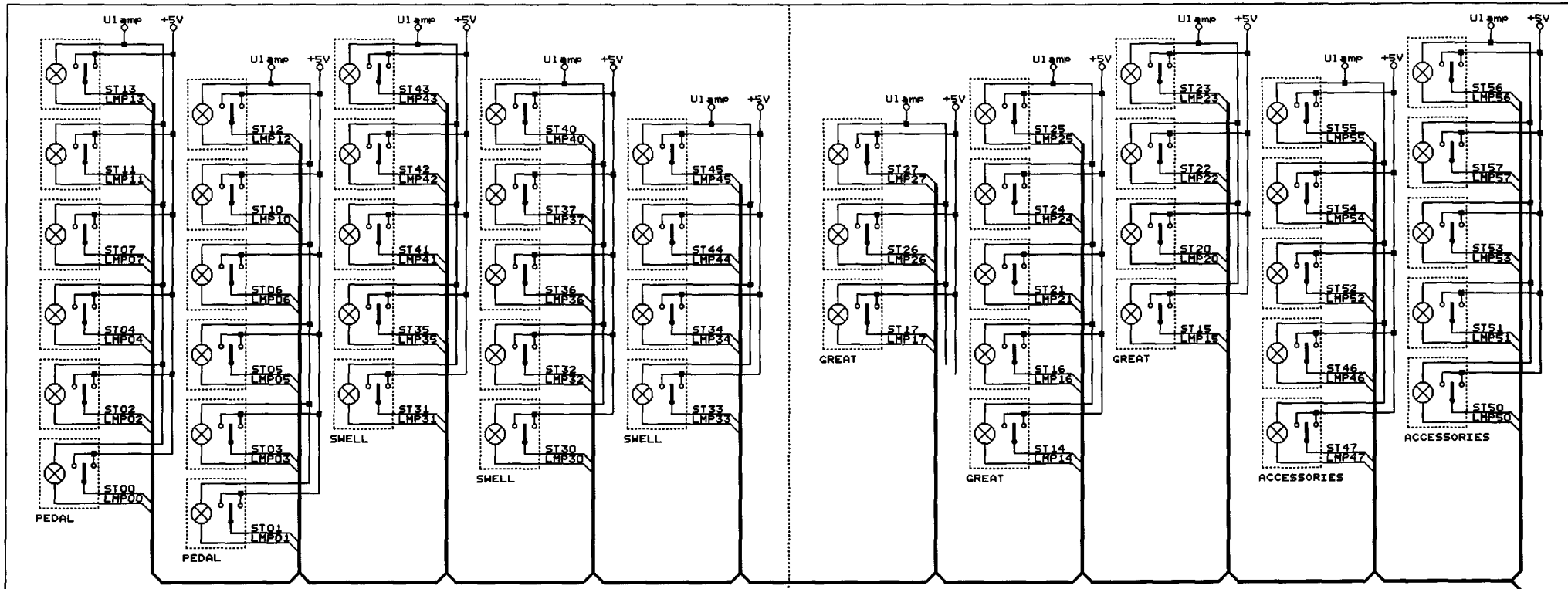
DESIGN	REVISION	REV.
DATE	BY	07-12-93
PAGE		5
WESLEY 42		



ALL CONNECTORS: TO MASTER PROCESSOR
 ALL DIODES: 1N4148

SCANNING KEYING & TRANSPOSER
 SWITCH BANK CAPTURE SYSTEM

DESIGN	LAB	REV.
DRAWN	VERSCHOOR	07-12-93
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LEFT CONSOLE

RIGHT CONSOLE

STOPLIST

PEDAL

- ST00 = DOUBLE BASS 16"
- ST01 = SUBBASS 16"
- ST02 = OCTAVE 8"
- ST03 = GEDACKT 8"
- ST04 = CHORALBASS 4"
- ST05 = BASSFLUTE 4"
- ST06 = OPEN FLUTE 2"
- ST07 = MIXTURE III
- ST10 = BOMBARDE 32"
- ST11 = CONTRA TRUMPET 16"
- ST12 = TRUMPET 8"
- ST13 = CLARION 4"

SWELL

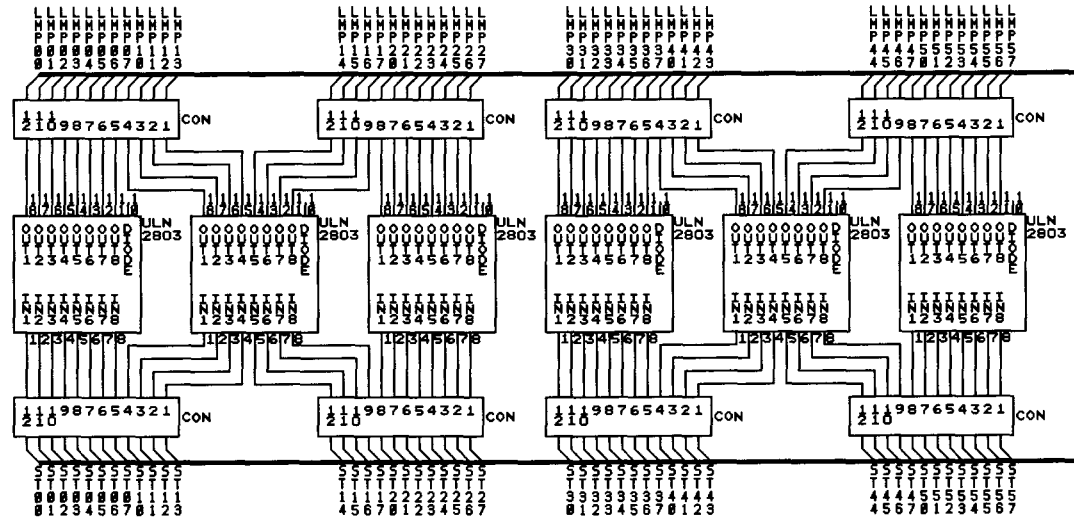
- ST30 = QUINTATON 16"
- ST31 = OPEN DIAPASON 8"
- ST32 = HOHLFLUTE 8"
- ST33 = VIOLA 8"
- ST34 = CELESTE 8"
- ST35 = OCTAVE 4"
- ST36 = ROHRFLUTE 4"
- ST37 = FLUTE TWELFTH 2 2/3"
- ST40 = WALDFLUTE 2"
- ST41 = TIERCE 1 3/5"
- ST42 = NAZARD 1 1/3"
- ST43 = RAUSCHPEFFFE III-V
- ST44 = CROMORNE 8"
- ST45 = OBOE 8"

GREAT

- ST14 = BOURDON 16"
- ST15 = OPEN DIAPASON 8"
- ST16 = ROHRFLUTE 8"
- ST17 = GAMBA 8"
- ST20 = OCTAVE 4"
- ST21 = OPEN FLUTE 4"
- ST22 = TWELFTH 2 2/3"
- ST23 = SUPEROCTAVE 2"
- ST24 = CORNET IV
- ST25 = MIXTURE V-VII
- ST26 = CONTRA TRUMPET 16"
- ST27 = TRUMPET 8"

ACCESSORIES

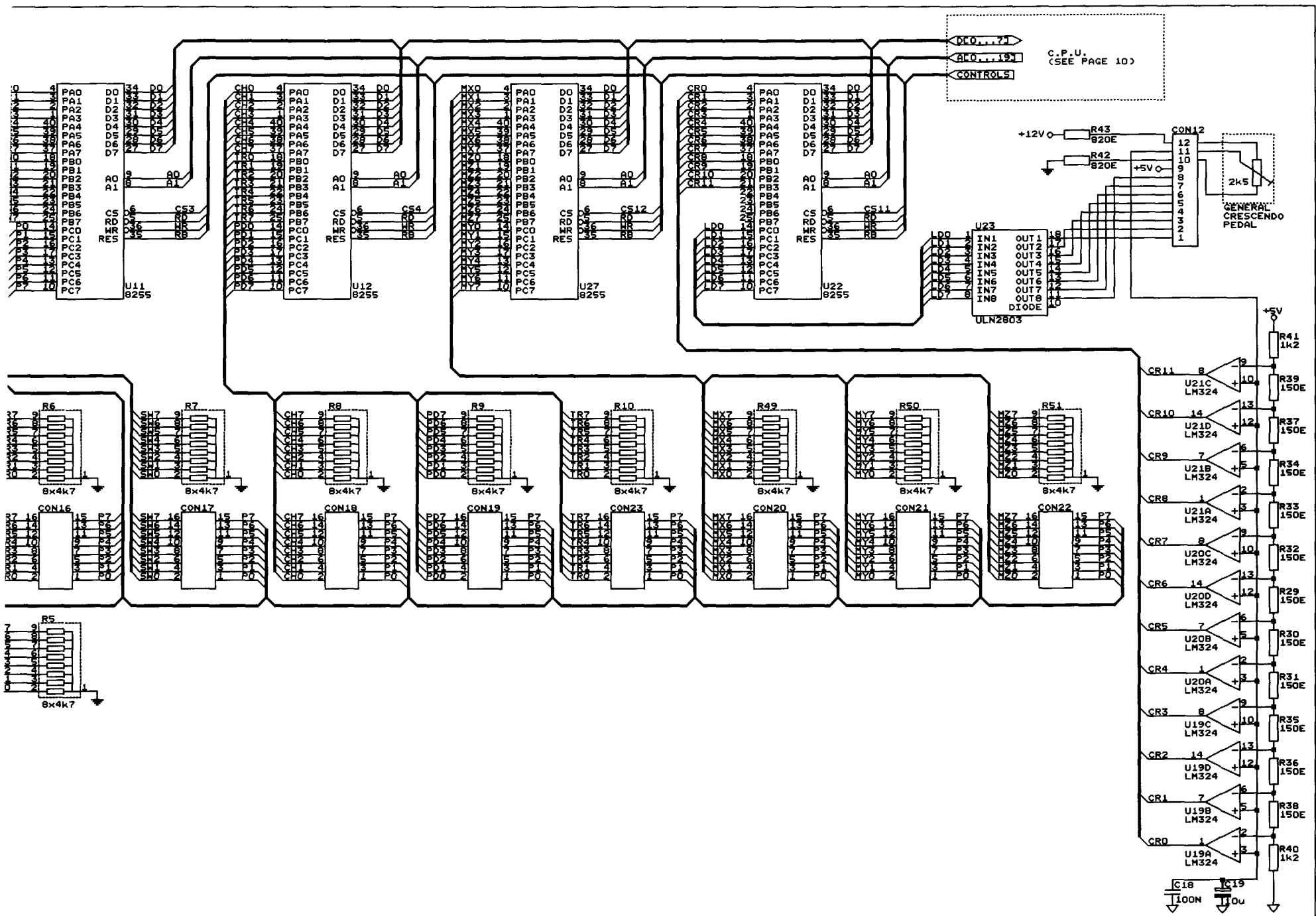
- ST46 = SWELL TO GREAT
- ST47 = GREAT TO PEDAL
- ST50 = SWELL TO PEDAL
- ST51 = TREMULANT GREAT
- ST52 = TREMULANT SWELL
- ST53 = CHORUS
- ST54 = MANUAL BASS
- ST55 = MIDI TO GREAT (CHAN. 1)
- ST56 = MIDI TO SWELL (CHAN. 2)
- ST57 = MIDI TO PEDAL (CHAN. 3)



STOP LAMP INTERFACE

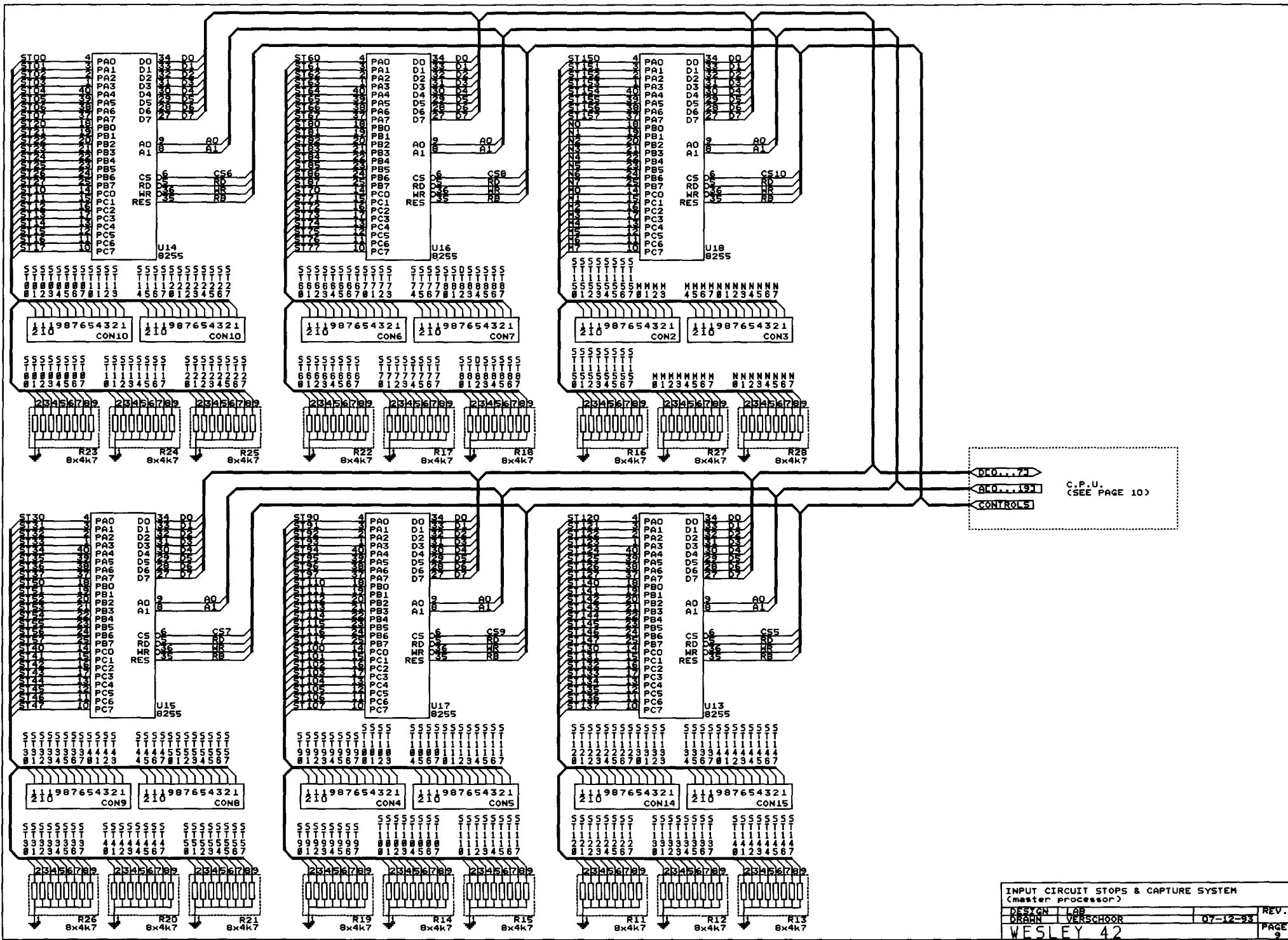
ALL CONNECTORS: ALSO TO MASTER PROCESSOR
ALL STOPLAMPS: 14Vdc/75mA

STOP-BANK		REV.
DESIGN	LAB	07-12-93
DRAWN	VERSCHOOR	
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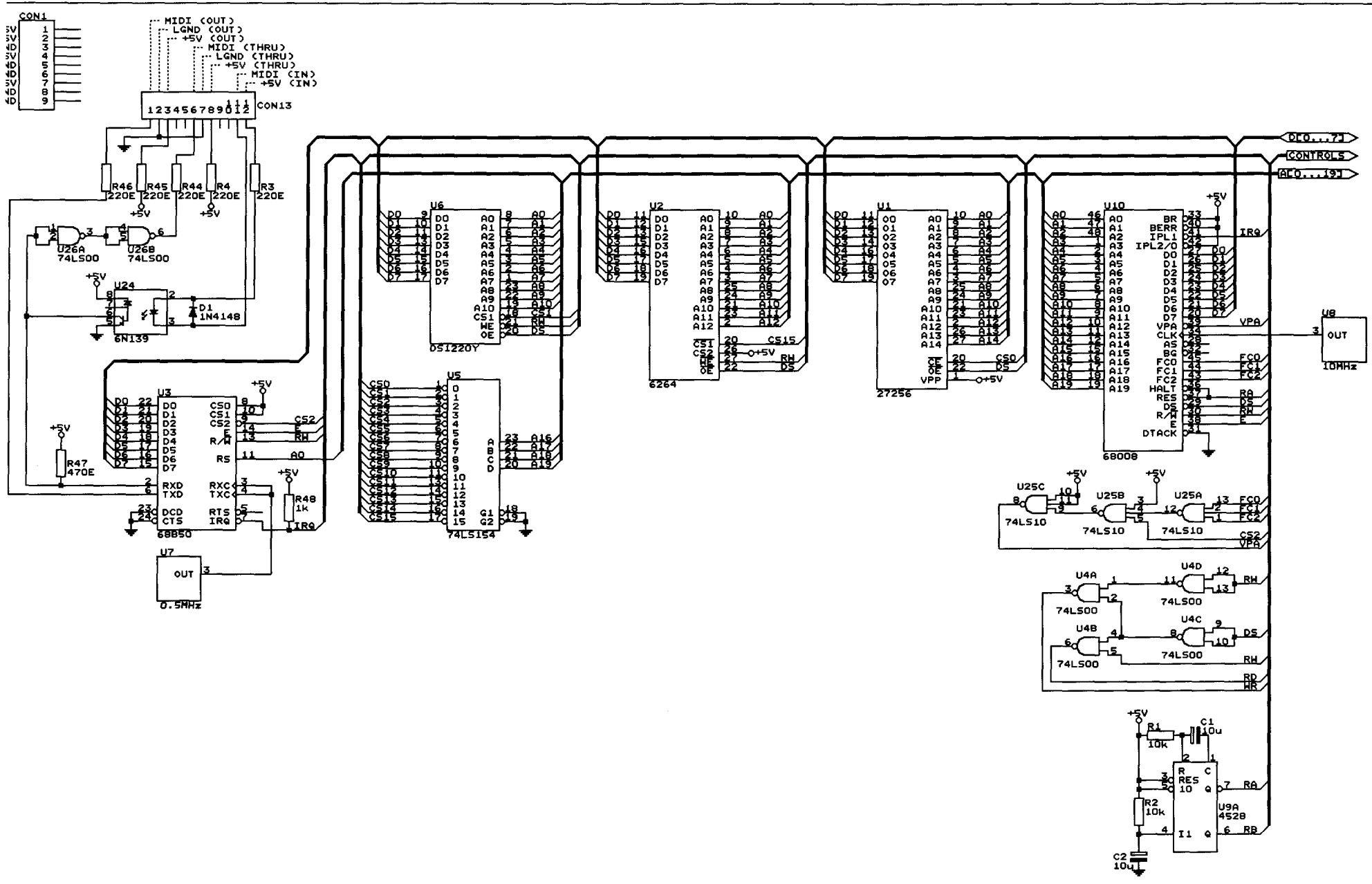
○○○...7
 ○○○...19
 CONTROLS
 C.P.U.
 (SEE PAGE 10)

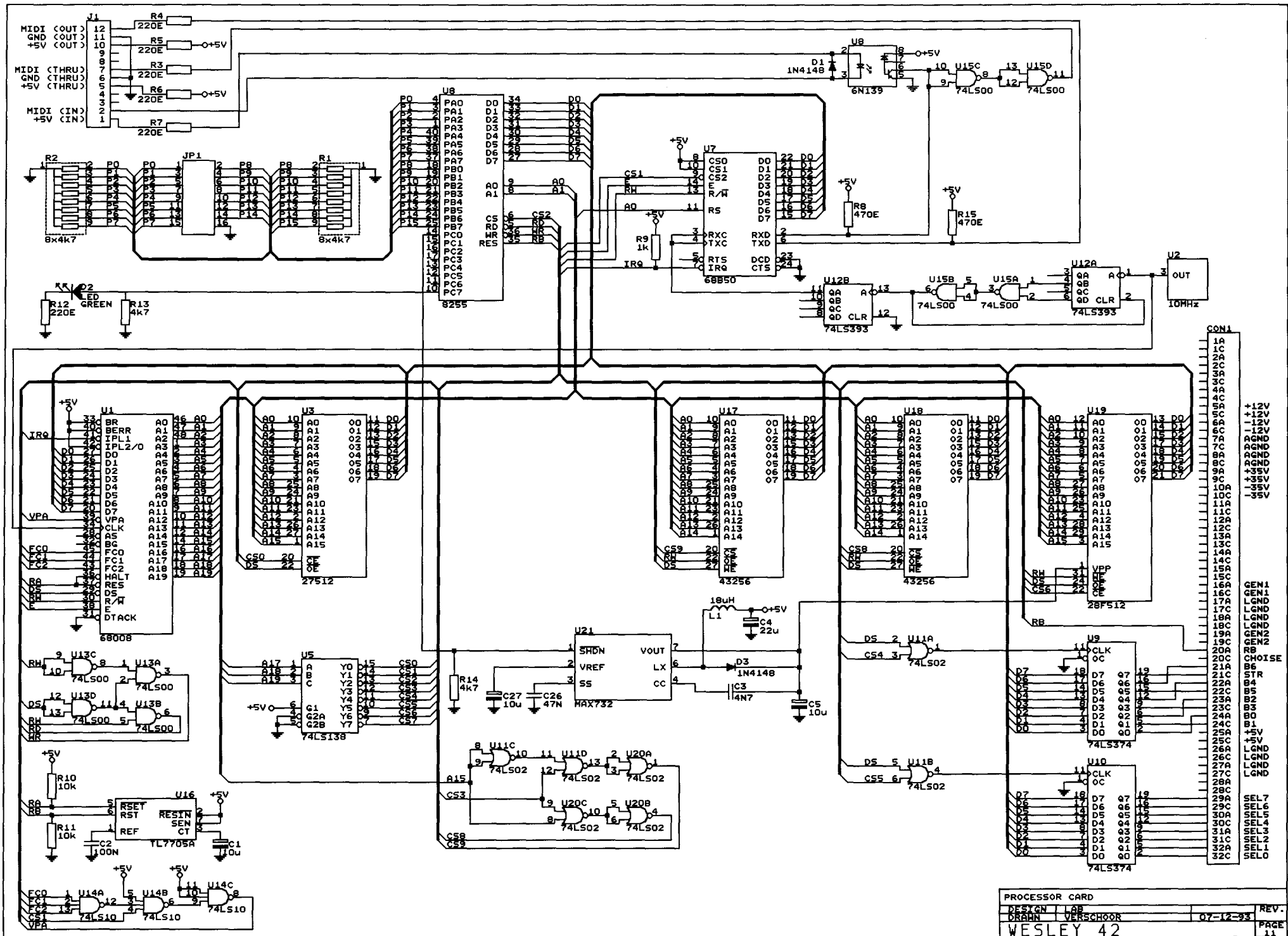
INPUT CIRCUIT SCANNING KEYING, TRANSPOSER &
 GENERAL CRESCENDO CIRCUIT (master processor)
 DESIGNED BY LAB
 DRAWN BY VERSCHOOR
 07-12-93
 REV.
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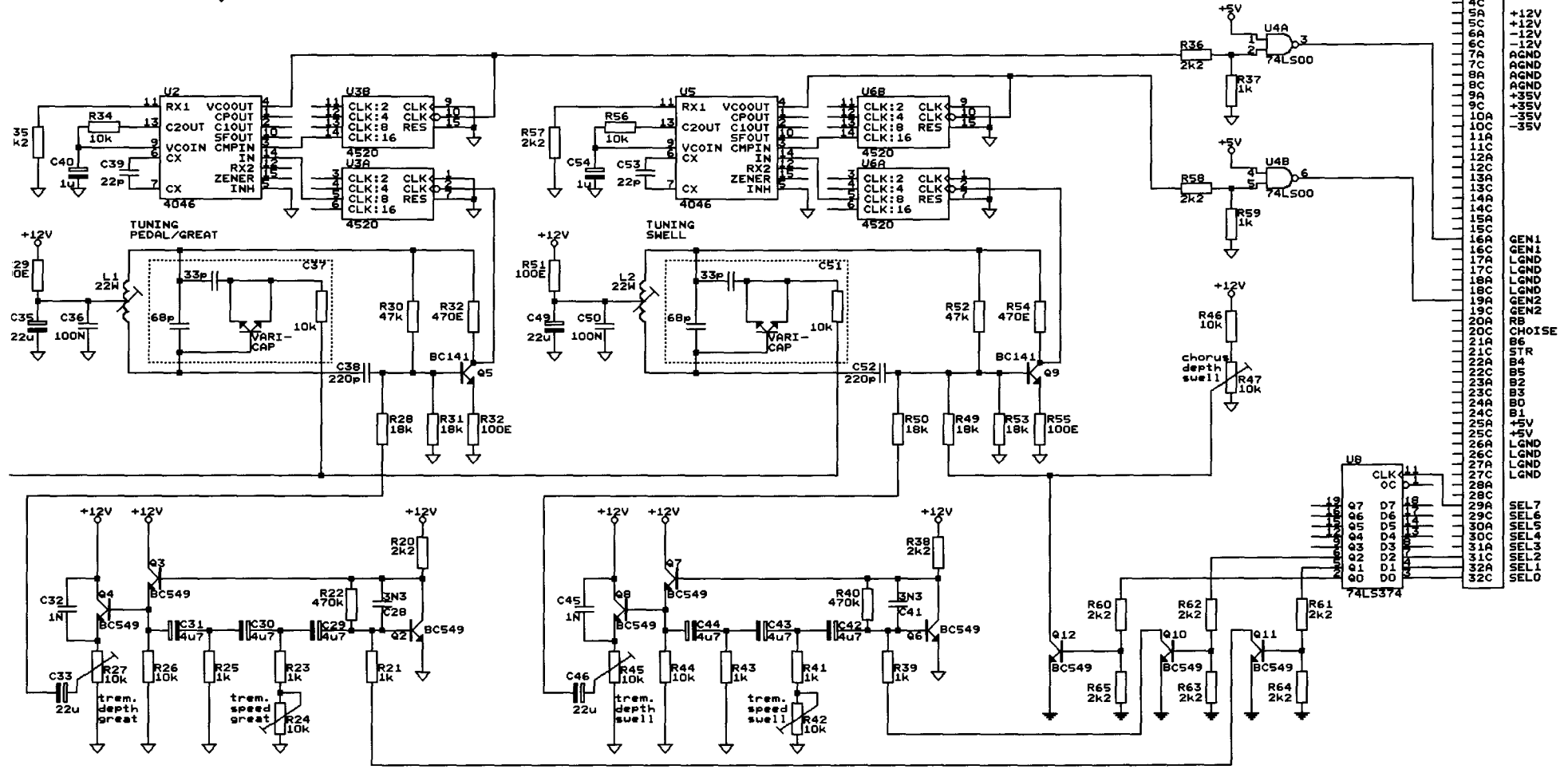
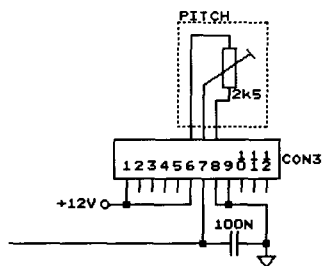
DCU...7
 ACU...19
 CONTROLS
 C.P.U.
 (SEE PAGE 10)

INPUT CIRCUIT STOPS & CAPTURE SYSTEM (master processor)			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	07-12-93	PAGE
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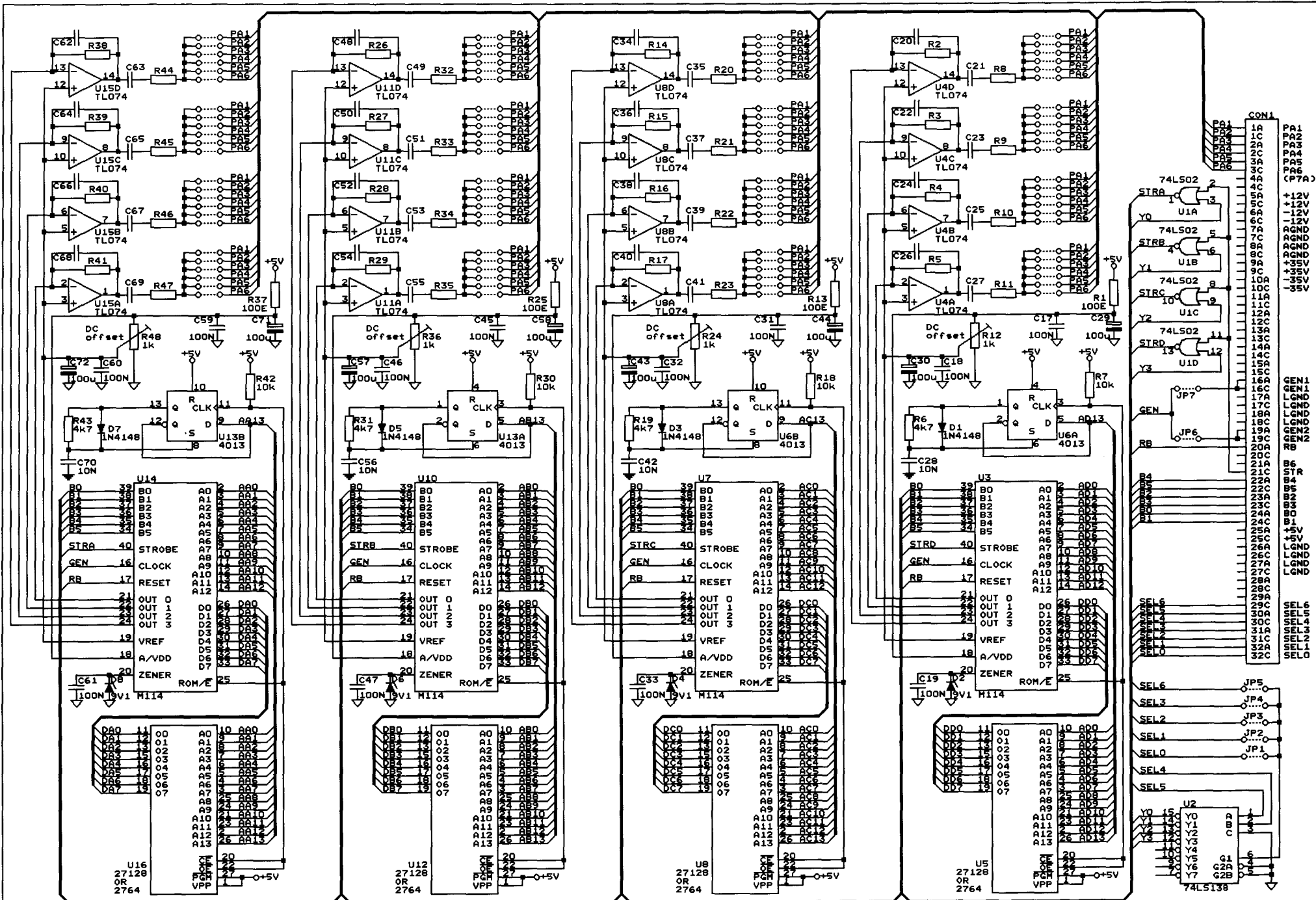


PROCESSOR CARD			REV.
DESIGN	LAB		
DRAWN	VERSCHOOR	07-12-93	
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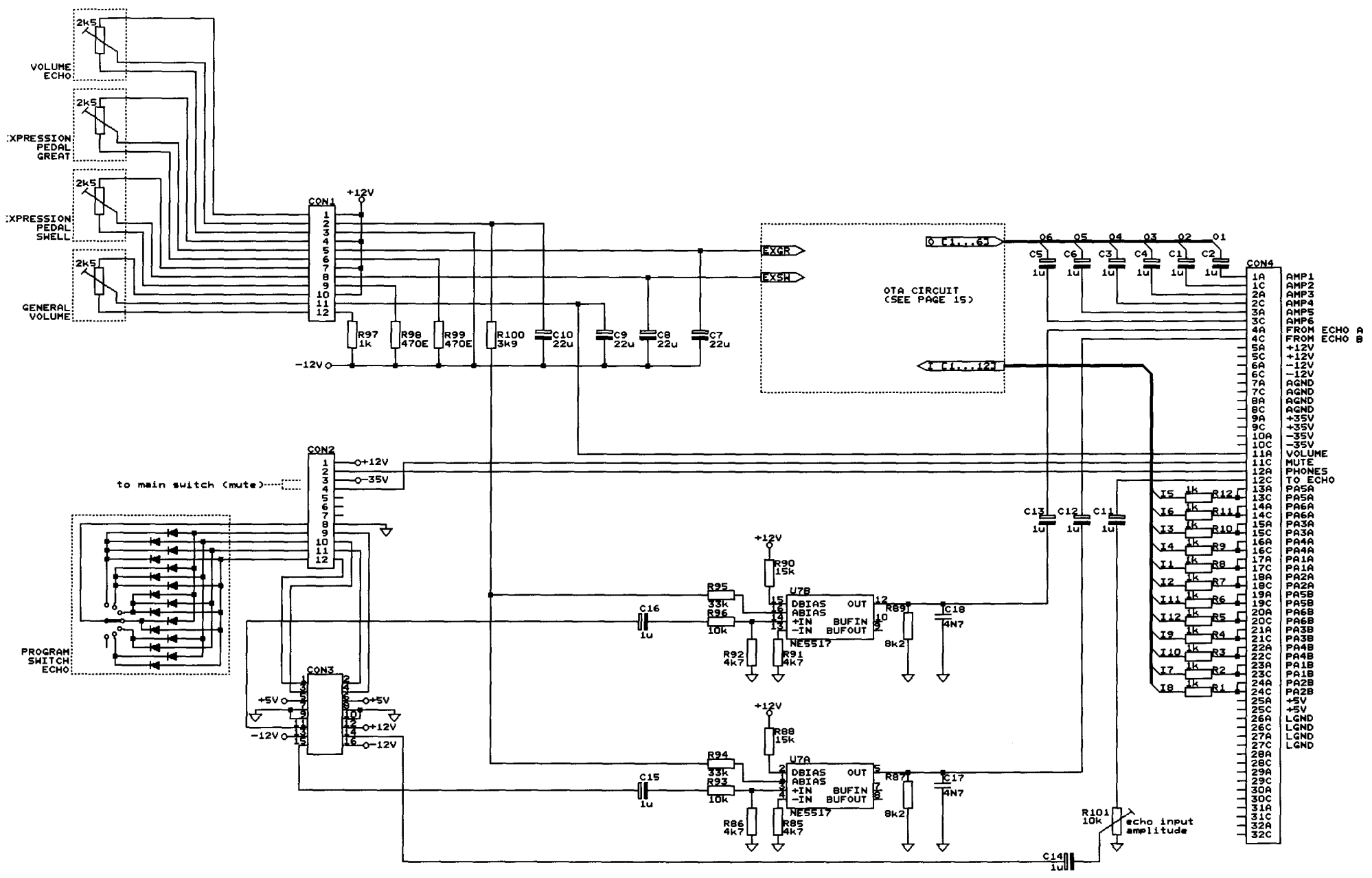
- 1A
- 1C
- 2A
- 2C
- 3A
- 3C
- 4C
- 5A
- 5C
- 6A
- 6C
- 7A
- 7C
- 8A
- 8C
- 9A
- 9C
- 10A
- 10C
- 11A
- 11C
- 12A
- 12C
- 13A
- 13C
- 14A
- 14C
- 15A
- 15C
- 16A
- 16C
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- 25A
- 25C
- 26A
- 26C
- 27A
- 27C
- 28A
- 28C
- 29A
- 29C
- 30A
- 30C
- 31A
- 31C
- 32A
- 32C
- GEN1
- GEN1
- LND
- LND
- LND
- GEN2
- GEN2
- LND
- LND
- RB
- CHOISE
- B6
- STR
- B4
- B5
- B2
- B3
- BO
- B1
- +5V
- LND
- LND
- LND
- SEL7
- SEL6
- SEL5
- SEL4
- SEL3
- SEL2
- SEL1
- SEL0

GENERATOR CARD			
DESIGN	LAB		REV.
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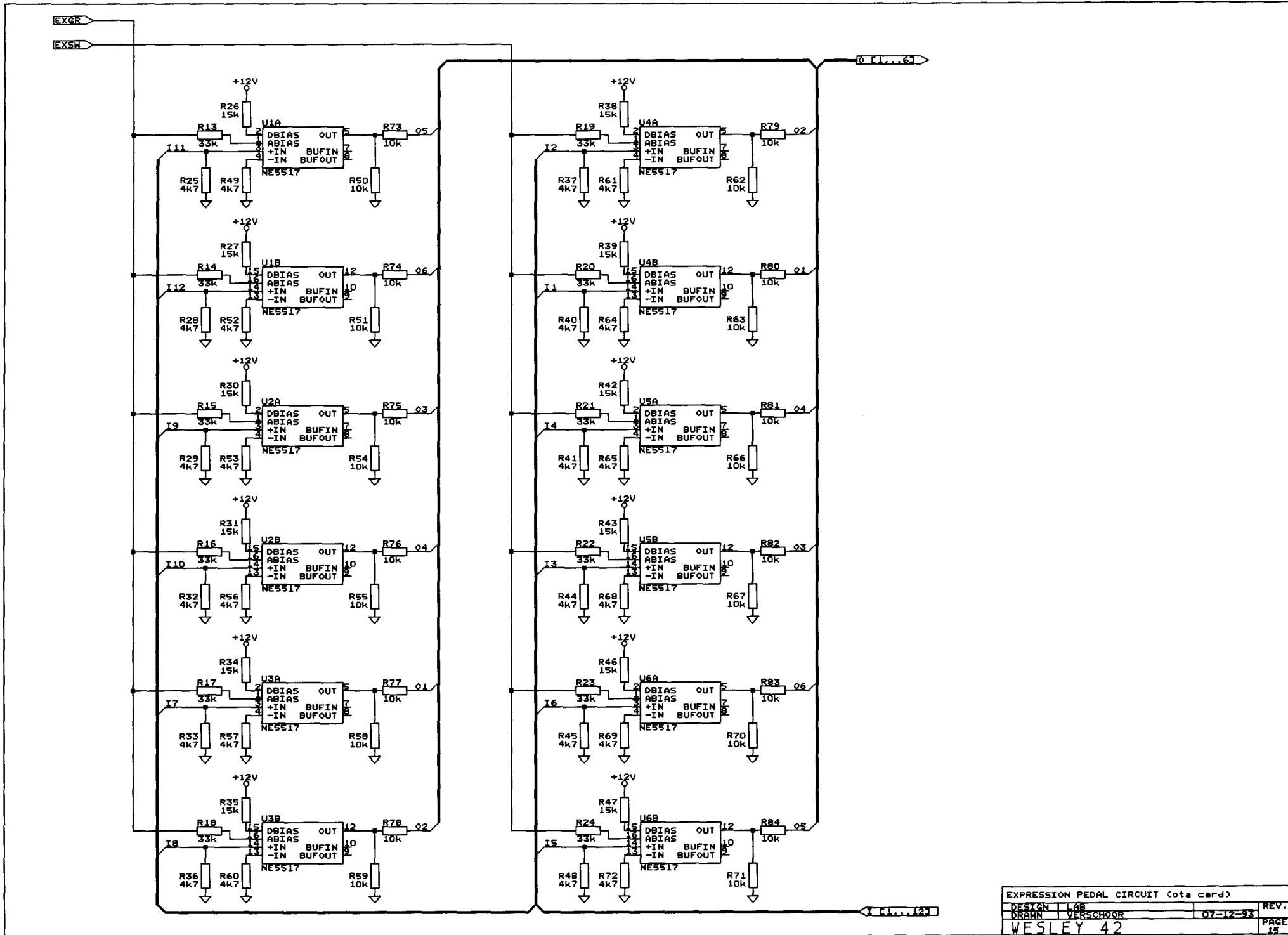


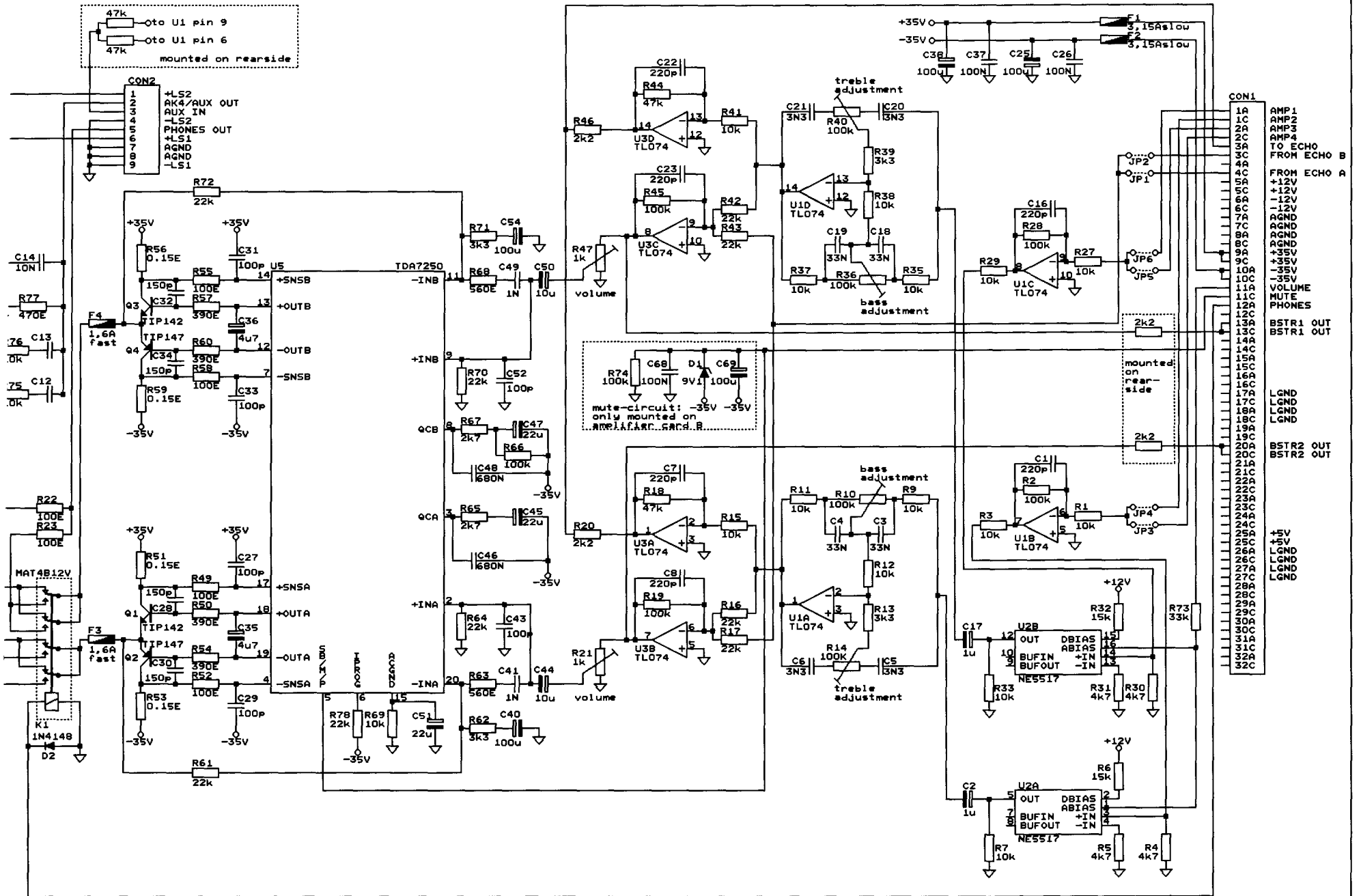
NOTE: IF FOR U5, U8, U12 OR U16 A 2764 EPROM IS PLACED INSTEAD OF A 27128 EPROM, THE 1/2 4013 (U6 AND U13) USED FOR SWITCHING THE UPPER BK ROM AND THE LOWER BK ROM, IS NOT NECESSARY.

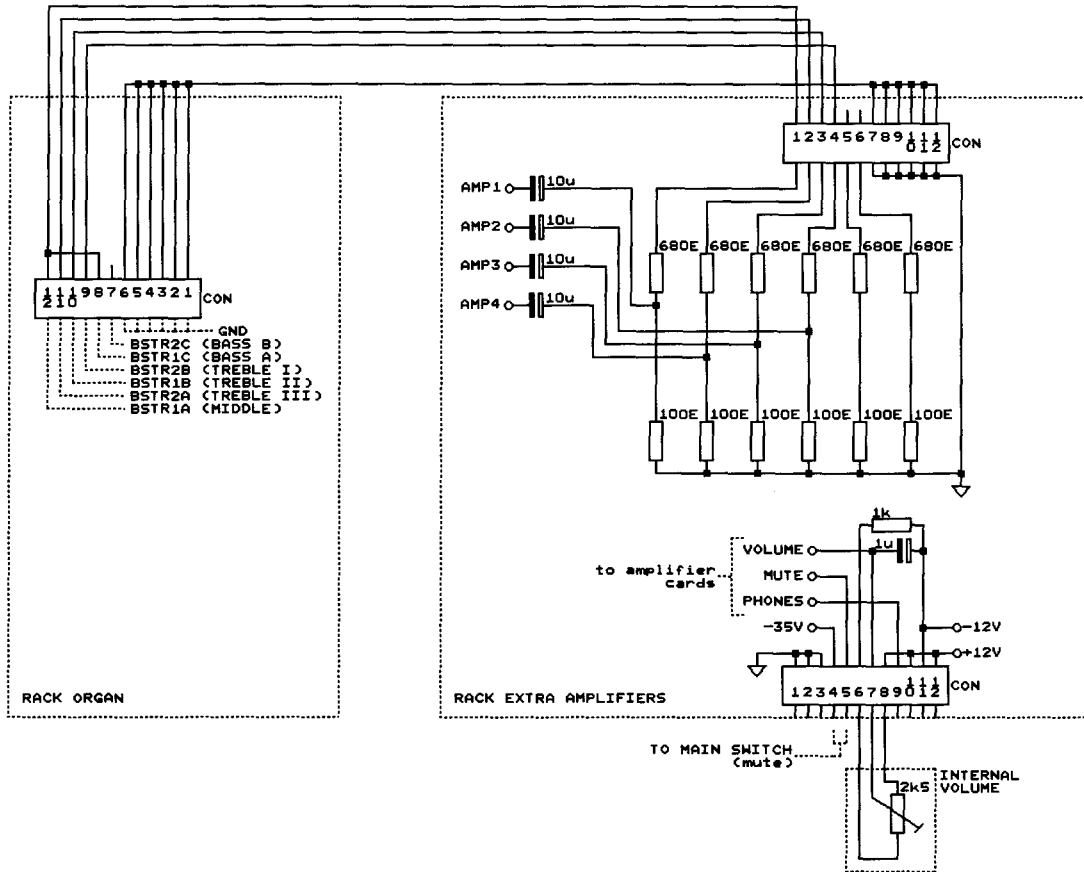
VOICE CARD (5X)		
DESIGN LAR		REV.
DRAWN VERSCHOOR	07-12-93	PAGE 13
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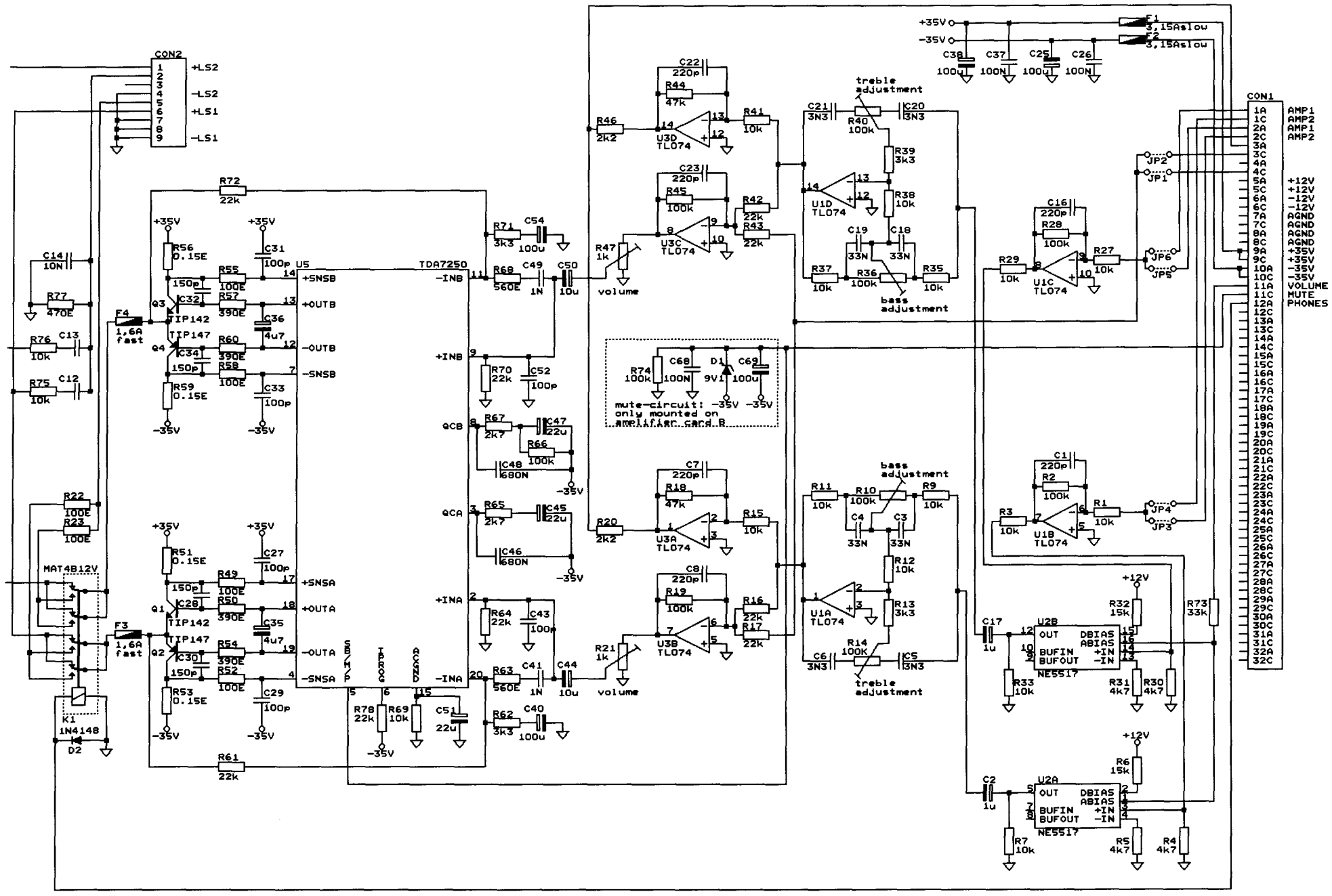
VOLUME CONTROLS & ECHO INTERFACE			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	07-12-93	PAGE
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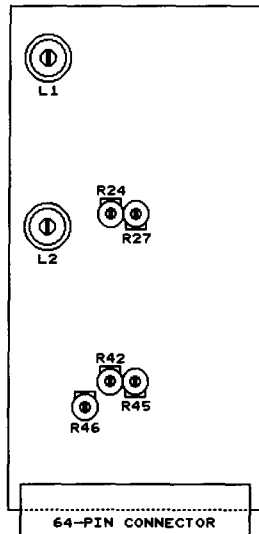


EXTRA AMPLIFIER INTERFACE			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	07-12-94	PAGE
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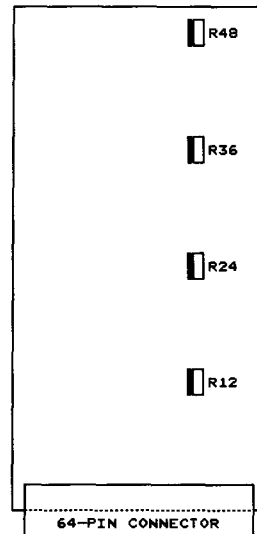
EXTRA AMPLIFIER CARD (2x)			
DESIGN	LAB		REV.
DRAWN	VERSCHOOR	07-12-93	PAGE
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GENERATOR CARD
(COMPONENT-SIDE VIEW)



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

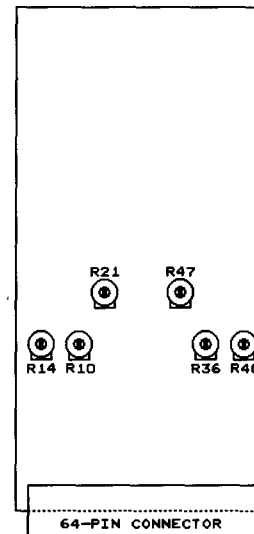
VOICE CARD
(COMPONENT-SIDE VIEW)



- 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)

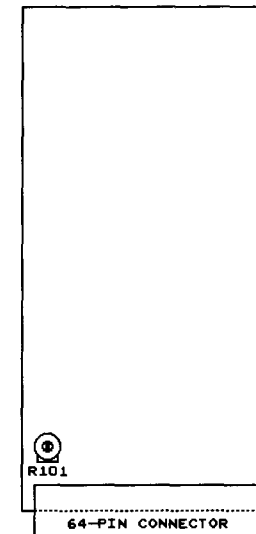
NOTE: R12-R24-R36-R48 ARE NOT
FOR CHANGING VOLUMES!!
TURNING THESE POTENTIOMETERS
WILL GIVE DISTORSION!!

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