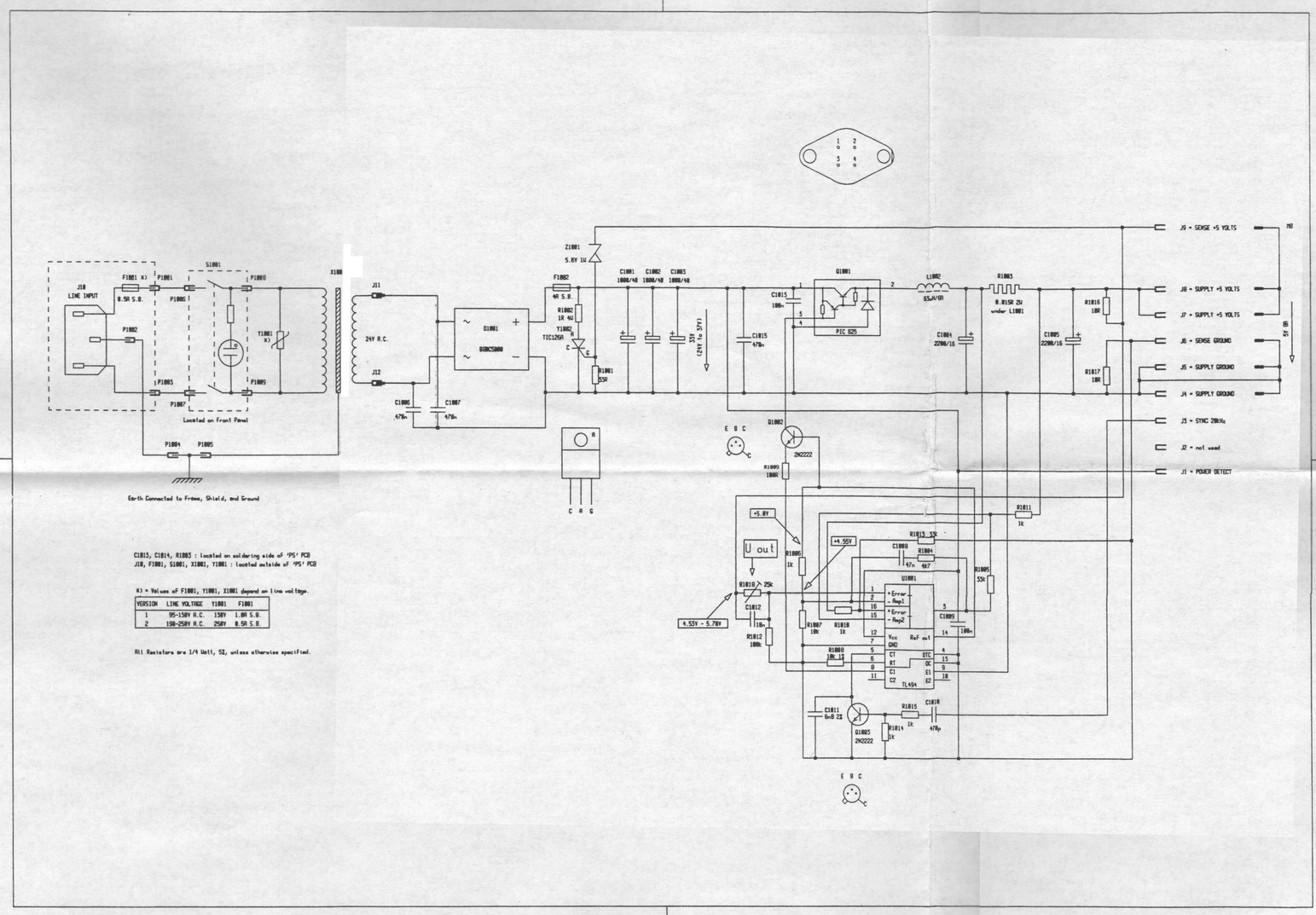
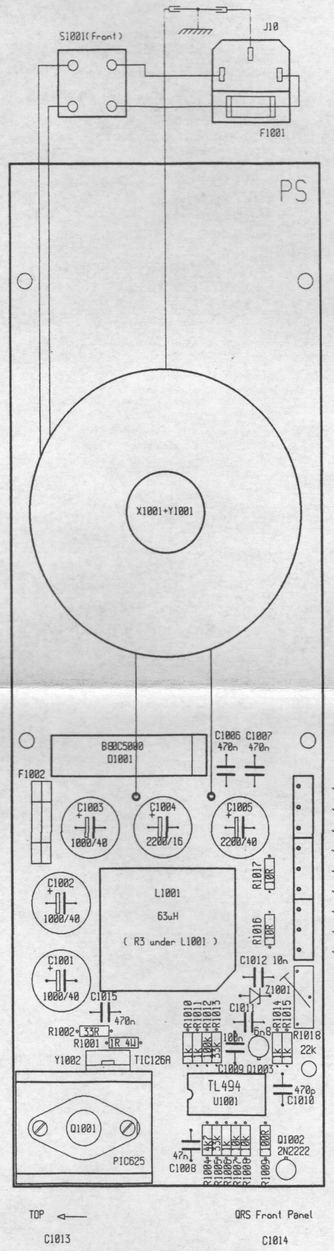




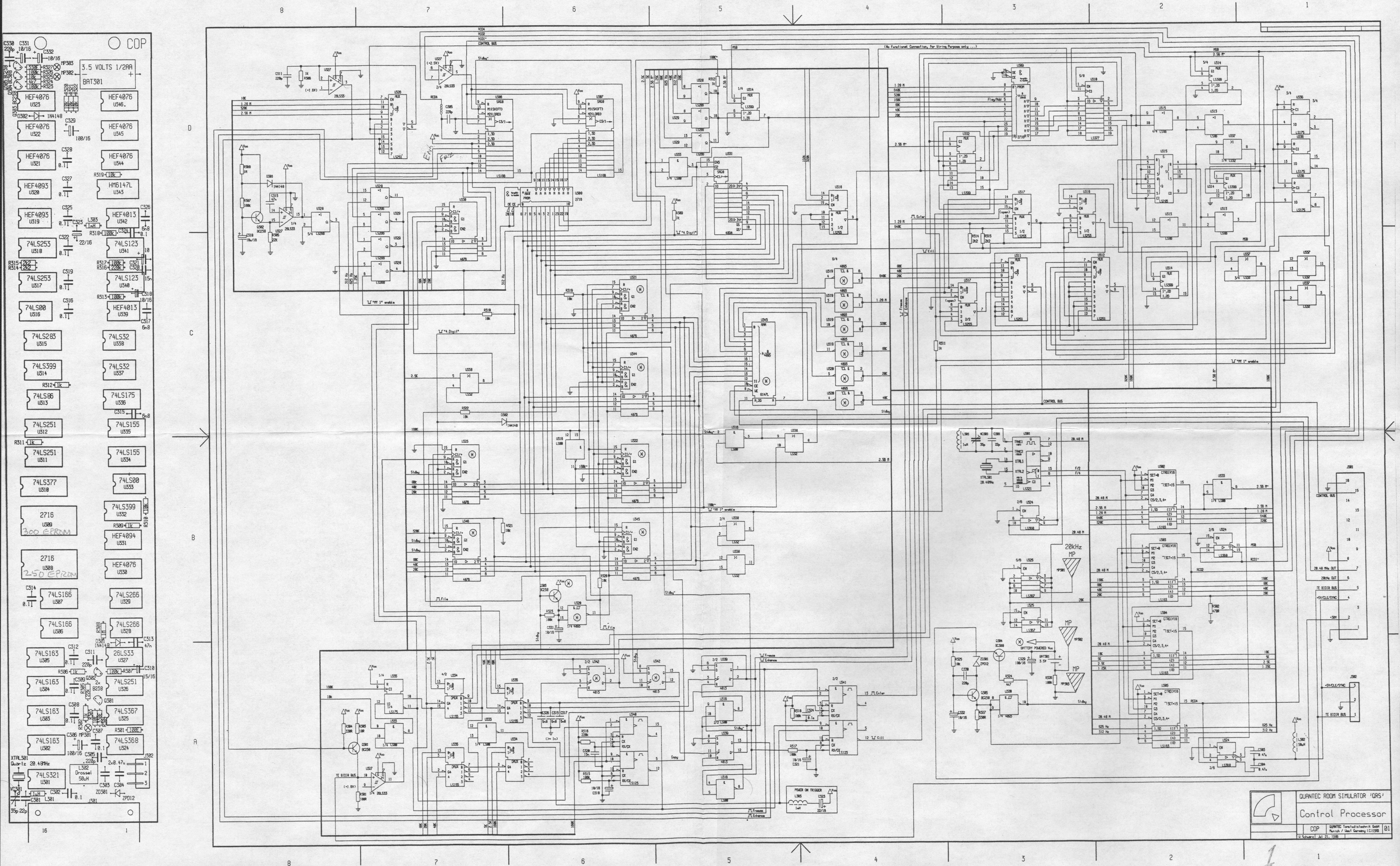
X1001 = Line Transformer
120V or 240V to 24V

QUANTEC ROOM SIMULATOR 'QRS'

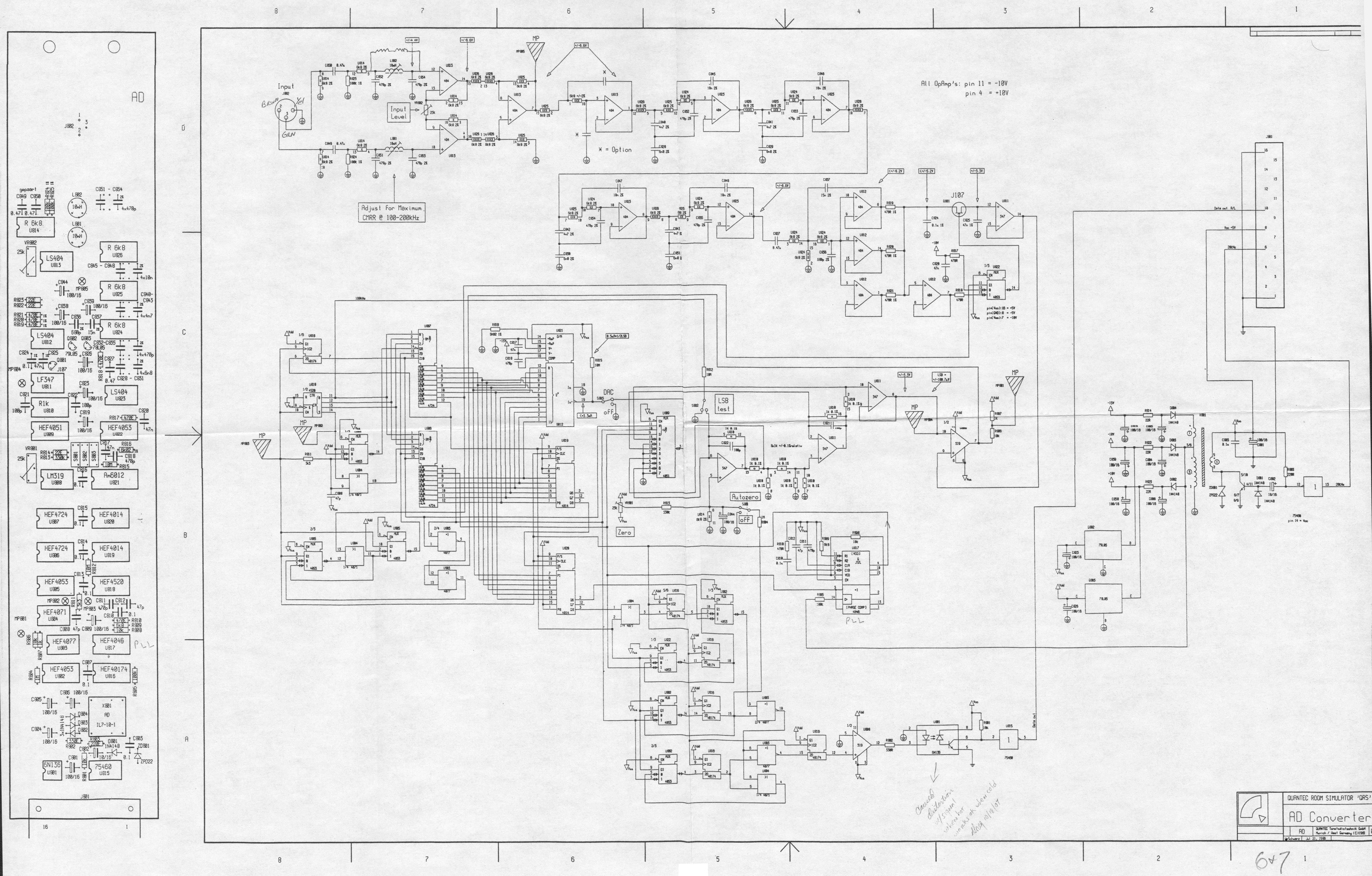
Power Supply

PS | QUANTEC Tontechnik GmbH Munich / West Germany (C)1986

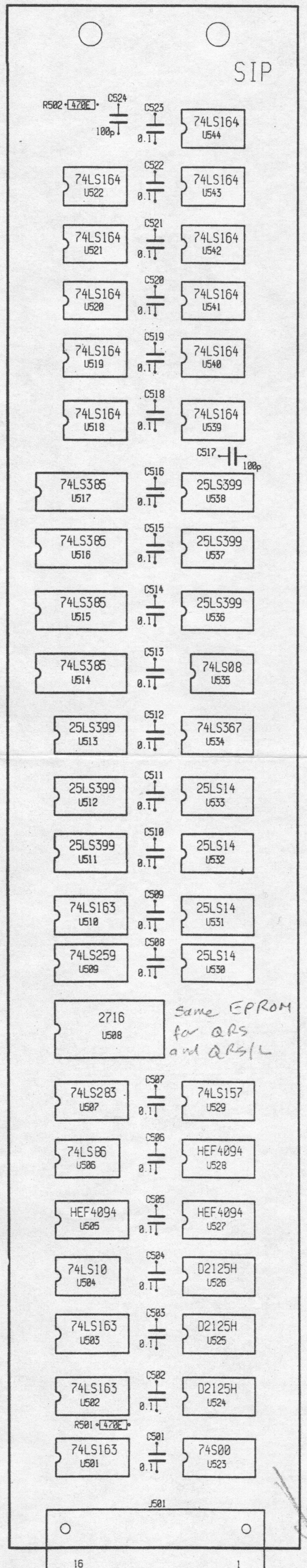
U.Schwarz | Jul 20, 1986

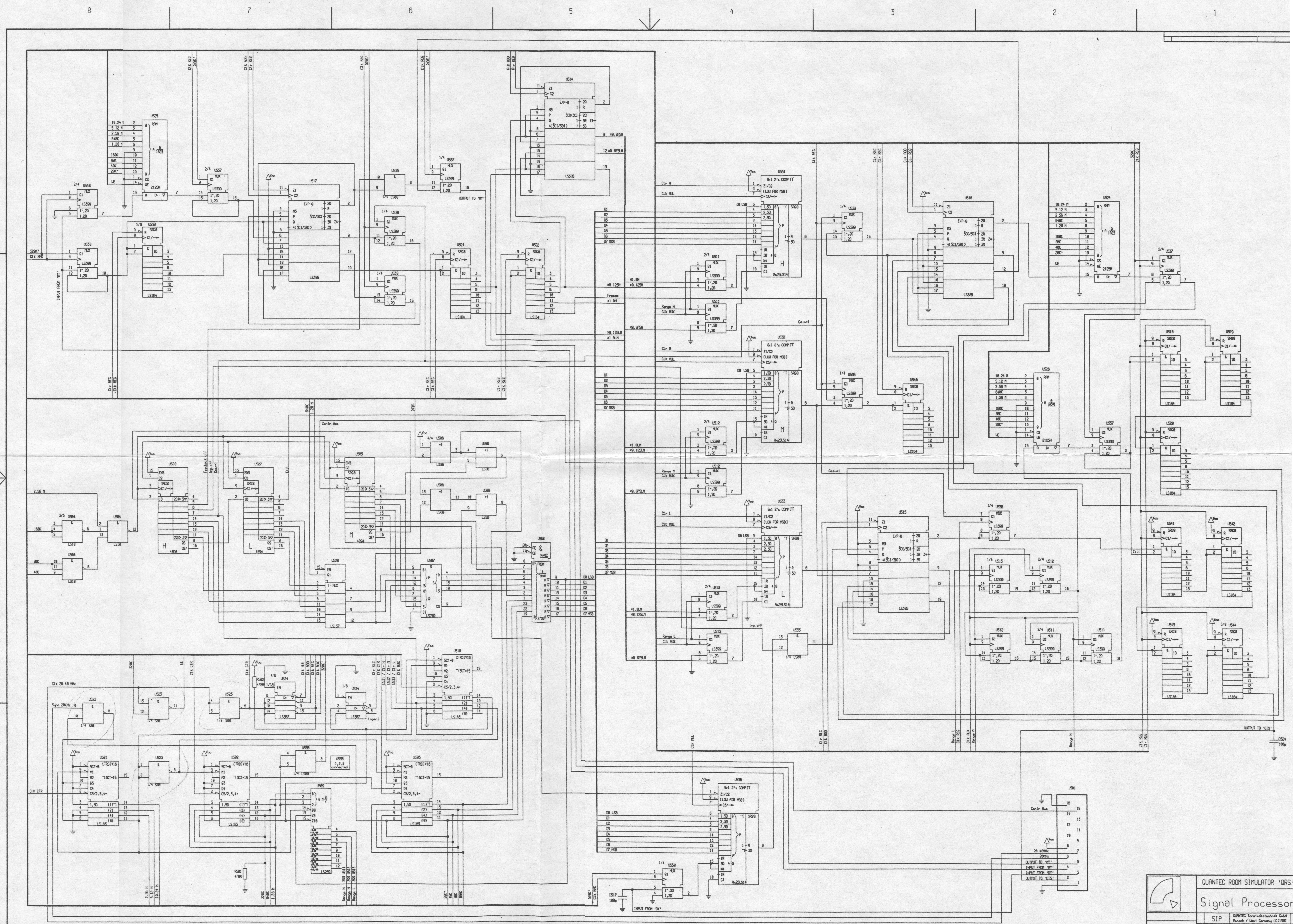


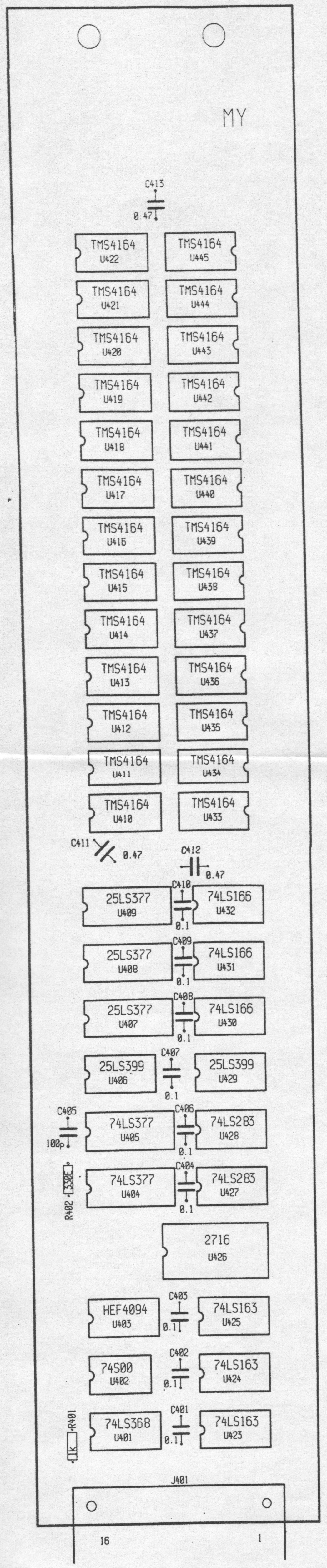
COP
3.5 VOLTS 1/2AA
BAT301
20kHz
MP
BATTERY POWERED Vcc
POWER ON TRIGGER
CONTROL BUS
QUANTEC ROOM SIMULATOR 'QRS'
Control Processor
COP

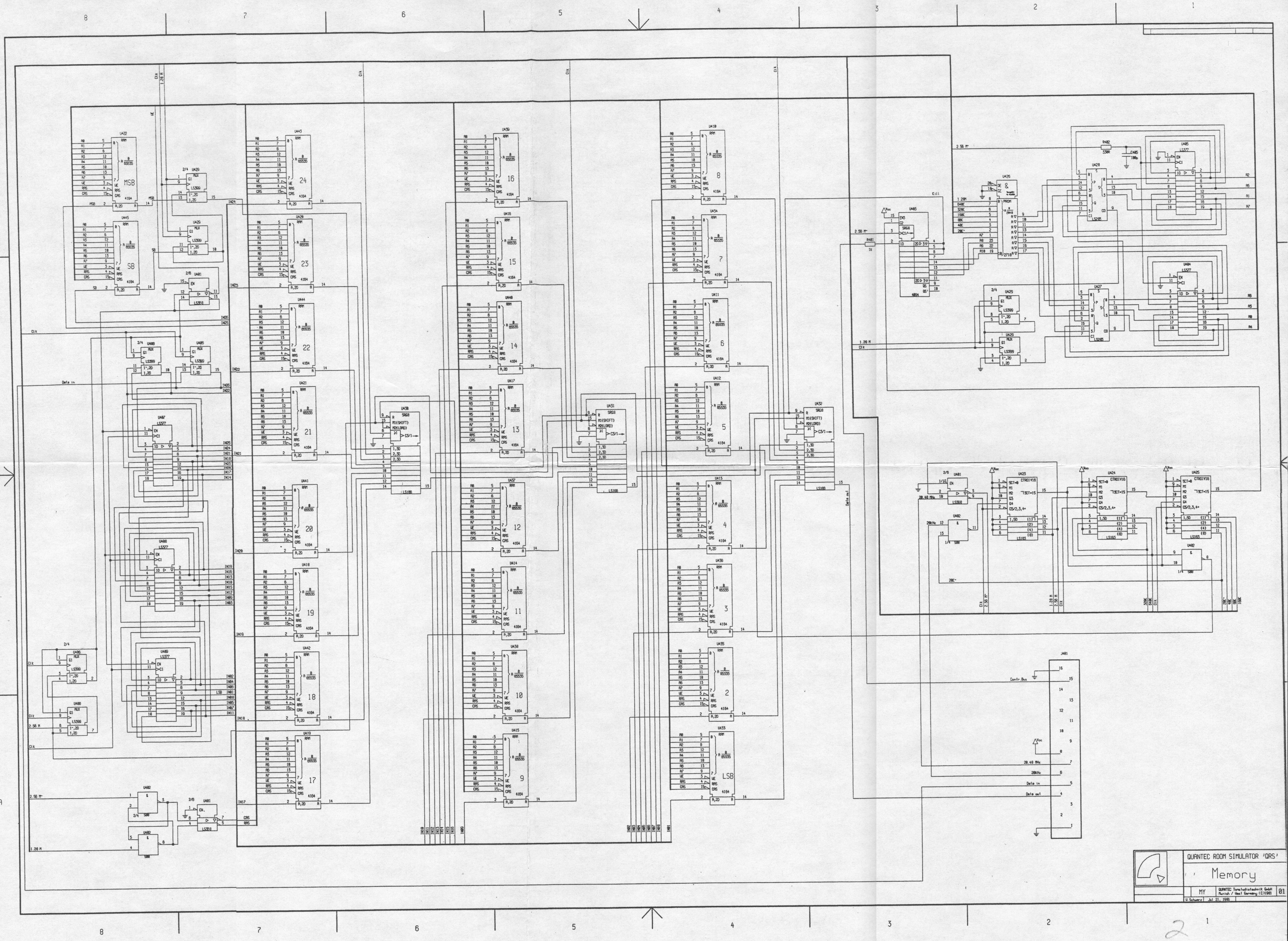


AD
Input
Input Level
Adjust for Maximum CMRR @ 100-200kHz
X = Option
All OpAmp's: pin 11 = -10V
pin 4 = +10V
J107
DAC
off
LSB test
Autozero
off
Zero
PLL
QUANTEC ROOM SIMULATOR 'QRS'
AD Converter
6+7

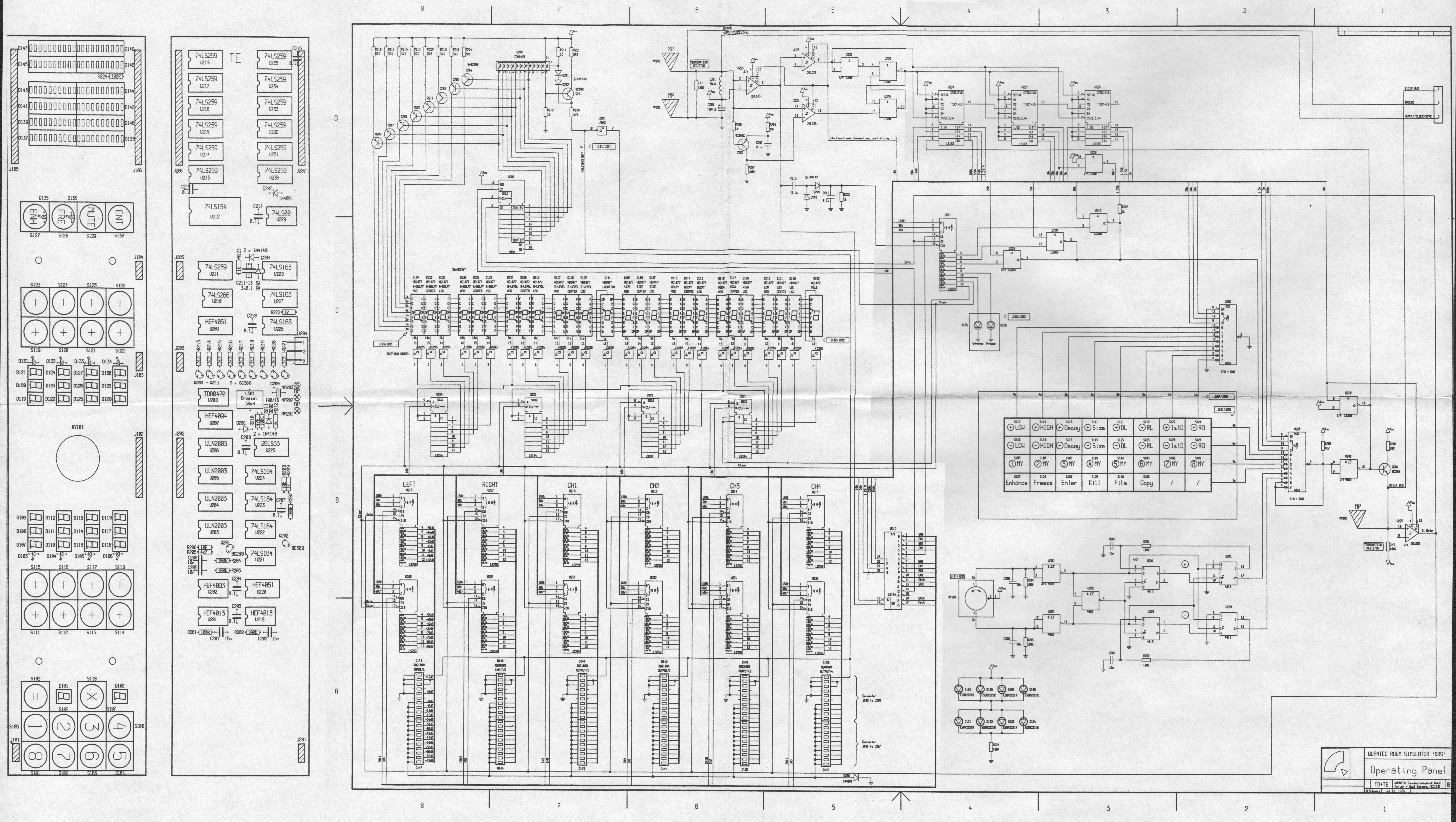

SIP
same EPROM for QRS and QRS/L
Caused massive hiss when hot seemed like RAM issue but NO! 6/11/07


QUANTEC ROOM SIMULATOR 'QRS'
Signal Processor
SIP
QUANTEC Tonstudiotechnik GmbH
Munich / West Germany (C)1981
W Schwarz
Jul 21, 1986
3

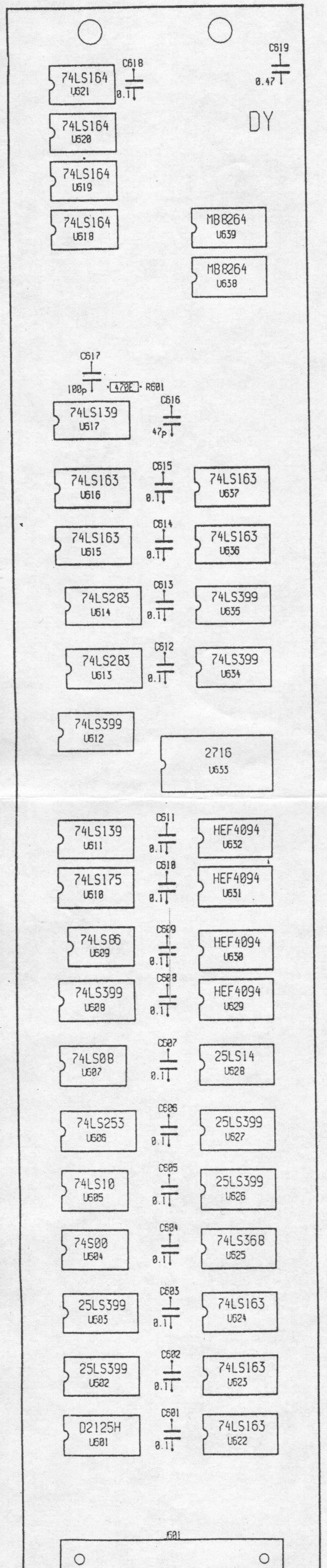

MY
TMS4164 U422
TMS4164 U445
TMS4164 U421
TMS4164 U444
TMS4164 U420
TMS4164 U443
TMS4164 U419
TMS4164 U442
TMS4164 U418
TMS4164 U441
TMS4164 U417
TMS4164 U440
TMS4164 U416
TMS4164 U439
TMS4164 U415
TMS4164 U438
TMS4164 U414
TMS4164 U437
TMS4164 U413
TMS4164 U436
TMS4164 U412
TMS4164 U435
TMS4164 U411
TMS4164 U434
TMS4164 U410
TMS4164 U433
25LS377 U409
74LS166 U432
25LS377 U408
74LS166 U431
25LS377 U407
74LS166 U430
25LS399 U406
25LS399 U429
74LS377 U405
74LS283 U428
74LS377 U404
74LS283 U427
2716 U426
HEF4094 U403
74LS163 U425
74S00 U402
74LS163 U424
74LS368 U401
74LS163 U423
J401

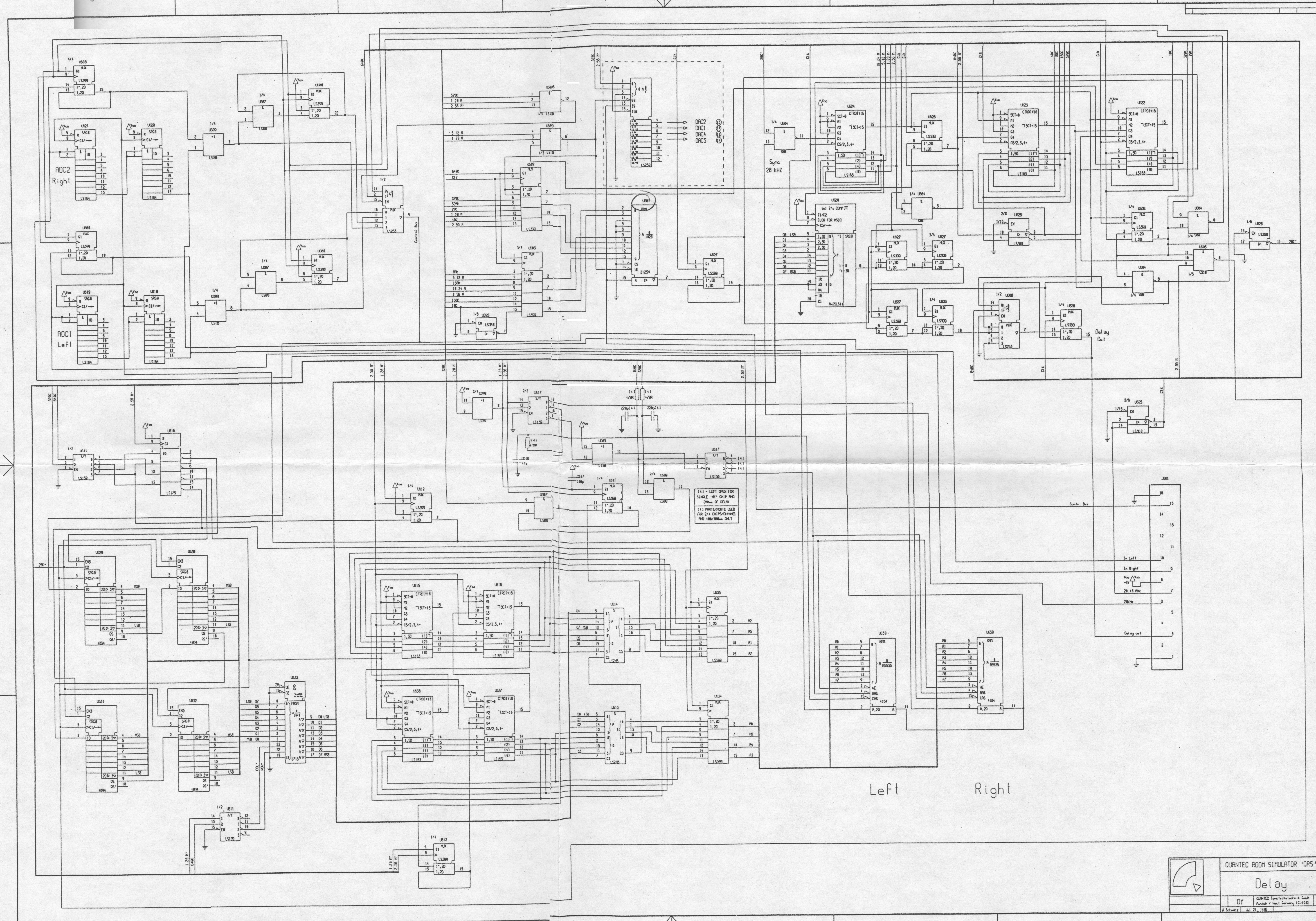

MSB
SB
LSB
Data in
Data out
Clk
QUANTEC ROOM SIMULATOR 'QRS'
Memory
MY
QUANTEC Tonstudiotechnik GmbH
Munich / West Germany (C)1981
01
W.Schwarz
Jul 21, 1986

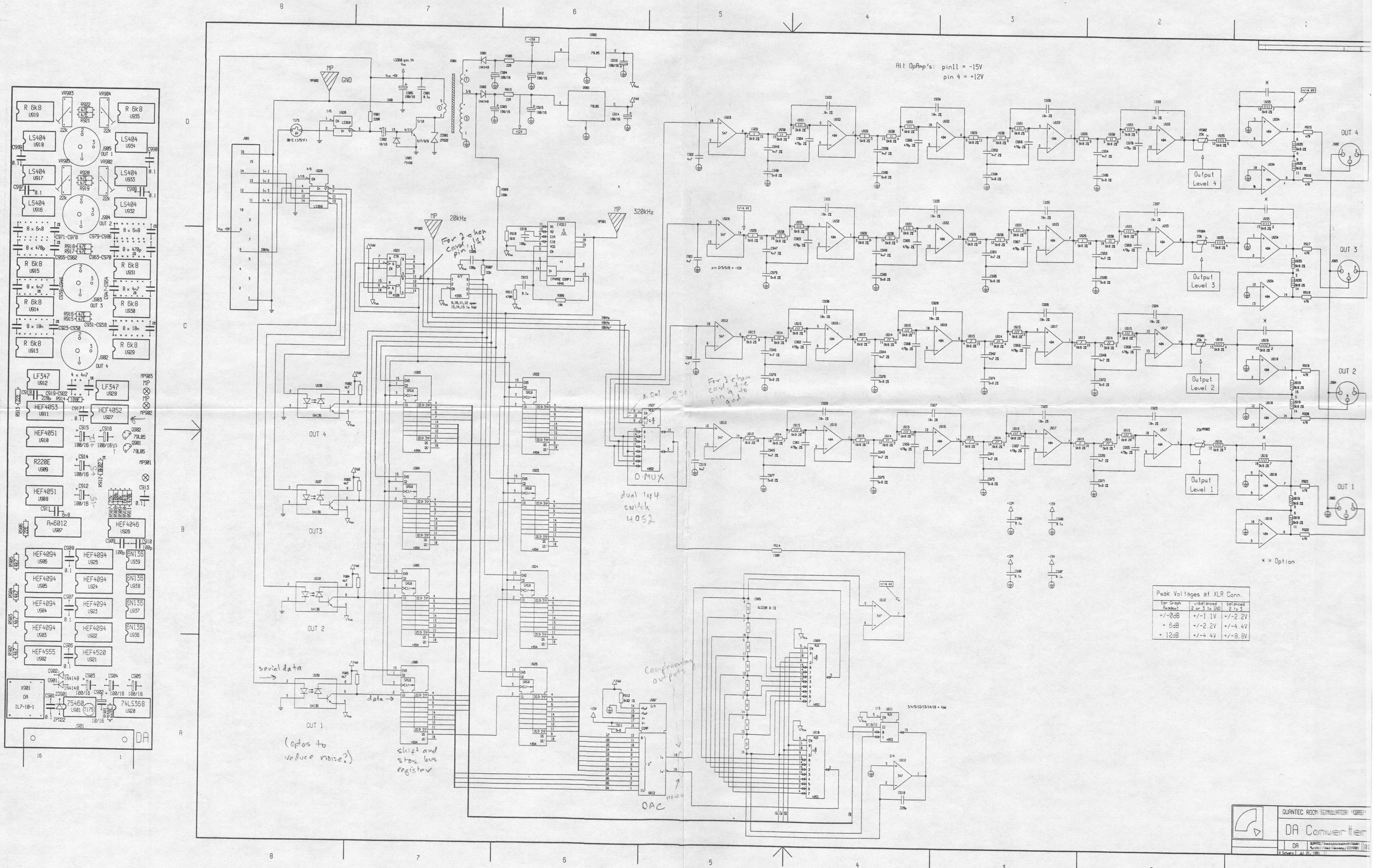
2



TE
74LS259
74LS154
74LS00
74LS163
74LS266
HEF4051
TDA0470
HEF4094
ULN2003
26LS33
74LS164
HEF4095
HEF4013
Drossel 56µH
9 × BC308
2 × 1N4148
1N4001
ENH
FRE
MUTE
ENT
RV101
LEFT
RIGHT
CH1
CH2
CH3
CH4
LOW
HIGH
Decay
Size
DL
RL
1stD
RD
MY
Enhance
Freeze
Enter
Kill
File
Copy
TERMINATION RESISTOR
GROUND
SUPPLY/CLOCK/SYNC
RIDER BUS
QUANTEC ROOM SIMULATOR 'QRS'
Operating Panel
TD+TE
QUANTEC Tonstudiotechnik GmbH
Munich / West Germany (C)1981
H.Schwarz
Jul 21, 1986


DY
74LS164 U621
74LS164 U620
74LS164 U619
74LS164 U618
MB8264 U639
MB8264 U638
74LS139 U617
74LS163 U616
74LS163 U637
74LS163 U615
74LS163 U636
74LS283 U614
74LS399 U635
74LS283 U613
74LS399 U634
74LS399 U612
2716 U633
74LS139 U611
HEF4094 U632
74LS175 U610
HEF4094 U631
74LS86 U609
HEF4094 U630
74LS399 U608
HEF4094 U629
74LS08 U607
25LS14 U628
74LS253 U606
25LS399 U627
74LS10 U605
25LS399 U626
74S00 U604
74LS368 U625
25LS399 U603
74LS163 U624
25LS399 U602
74LS163 U623
D2125H U601
74LS163 U622


ADC2
Right
ADC1
Left
DAC2
DAC1
DAC4
DAC3
Sync
20 kHz
Delay
Out
Left
Right
In Left
In Right
20.48 MHz
20kHz
Delay out
QUANTEC ROOM SIMULATOR 'QRS'
Delay
DY
QUANTEC Tonstudiotechnik GmbH
Munich / West Germany (C)1985
01
W Schwarz
Jul 21, 1985



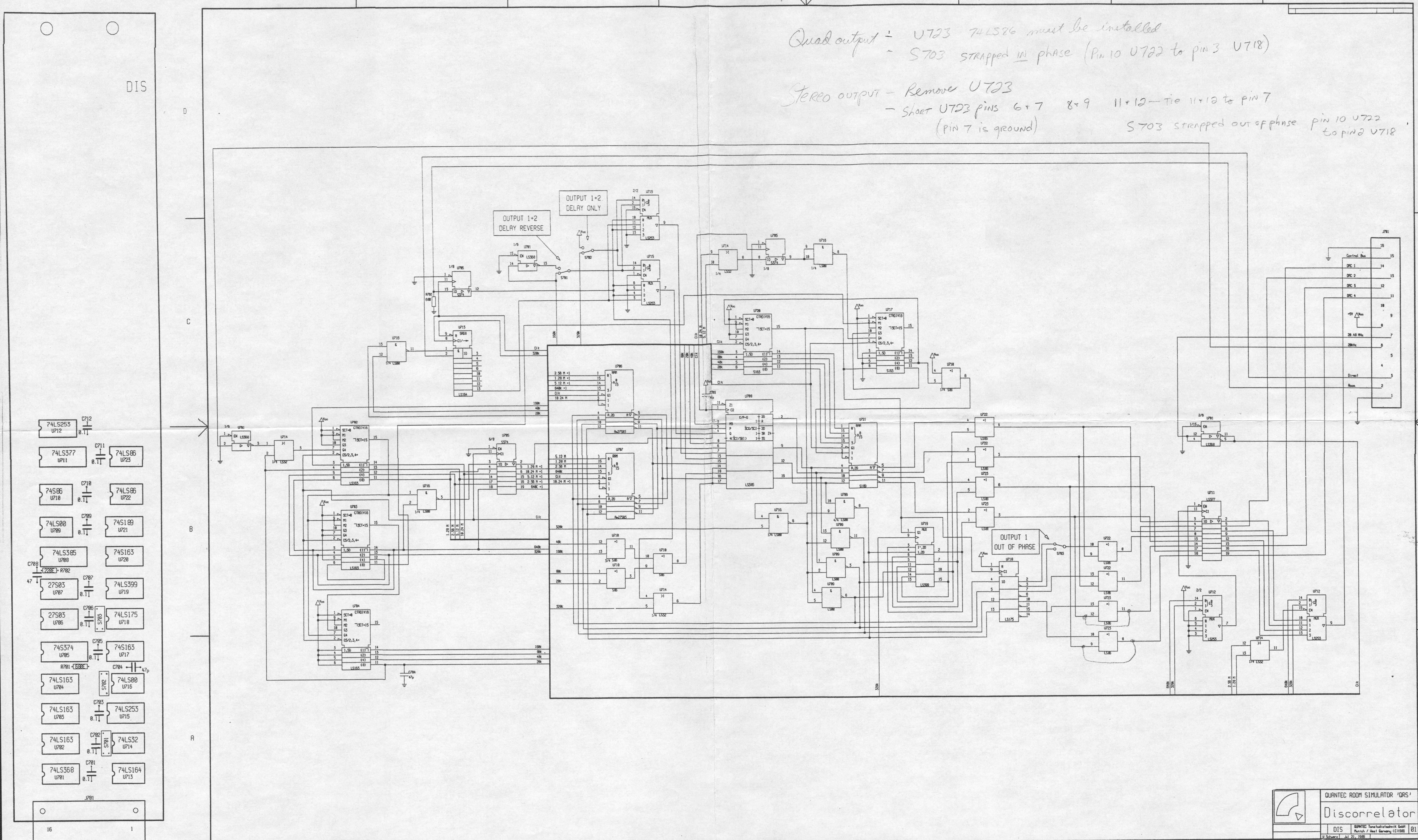
Peak Voltages at XLR Conn.		
Bar Graph Readout	unbalanced 2 or 3 to GND	balanced 2 to 3
+/-0dB	+/-1.1V	+/-2.2V
+ 6dB	+/-2.2V	+/-4.4V
+ 12dB	+/-4.4V	+/-8.8V

QUANTEC ROOM SIMULATOR 'QRS'

DA Converter

DA — QUANTEC Tonstudiotechnik GmbH Munich / West Germany (C)1986 — 01

W Schwarz — Jul 21, 1986


Quad output – U723 74LS86 must be installed
– S703 strapped IN phase (Pin 10 U722 to pin 3 U718)
Stereo output – Remove U723
– Short U723 pins 6+7 8+9 11+12 — tie 11+12 to pin 7
(pin 7 is ground)
S703 strapped out of phase pin 10 U722 to pin 2 U718
DIS
OUTPUT 1+2 DELAY REVERSE
OUTPUT 1+2 DELAY ONLY
OUTPUT 1 OUT OF PHASE
QUANTEC ROOM SIMULATOR 'QRS'
Discorrelator
DIS
QUANTEC Tonstudiotechnik GmbH
Munich / West Germany (C)1981
01
W. Schwarz
Jul 21, 1986

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