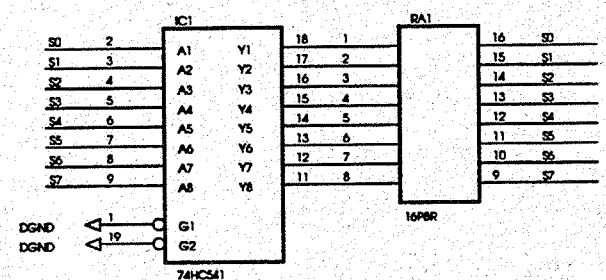
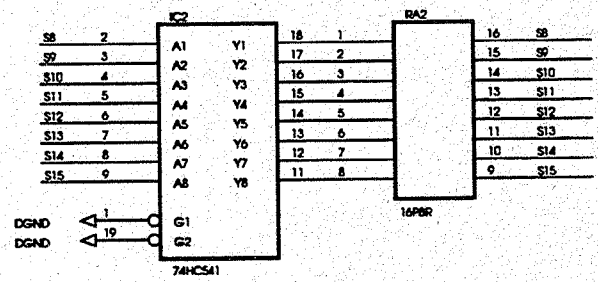
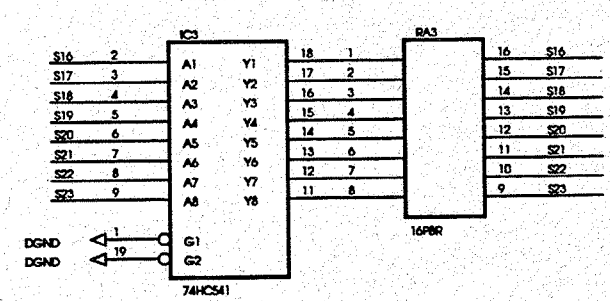
TC1380

MULTITAP DIGITAL DELAY LINE

SERVICE MANUAL



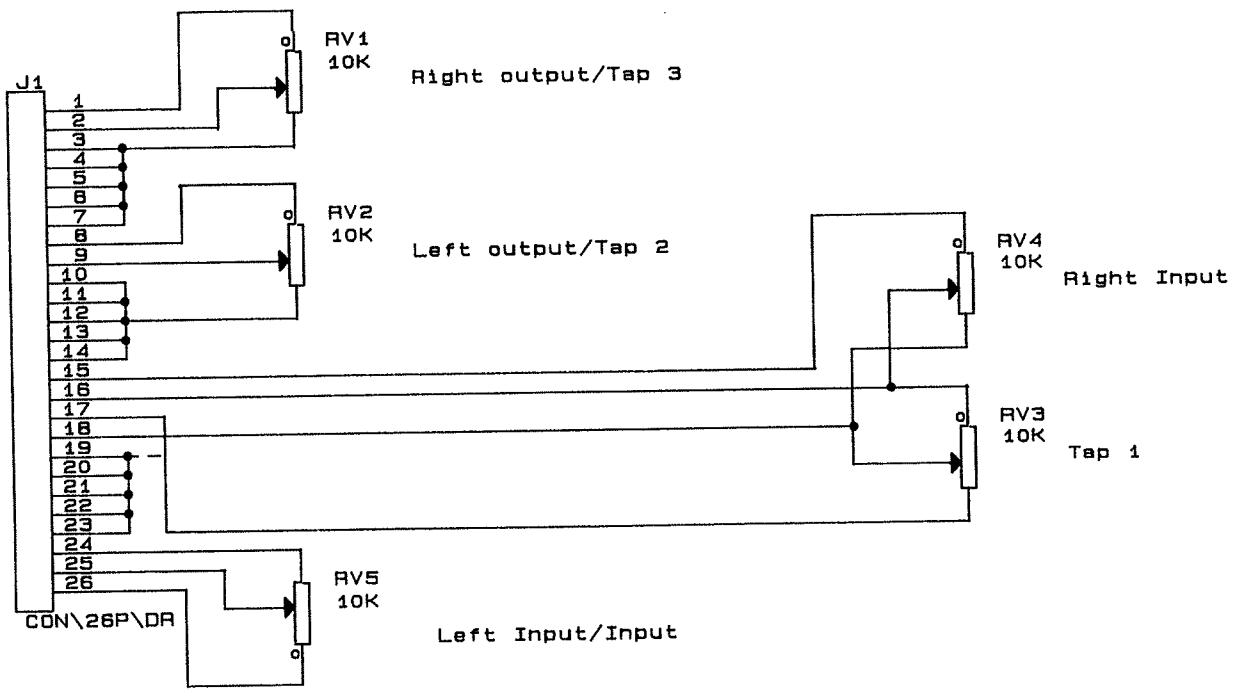




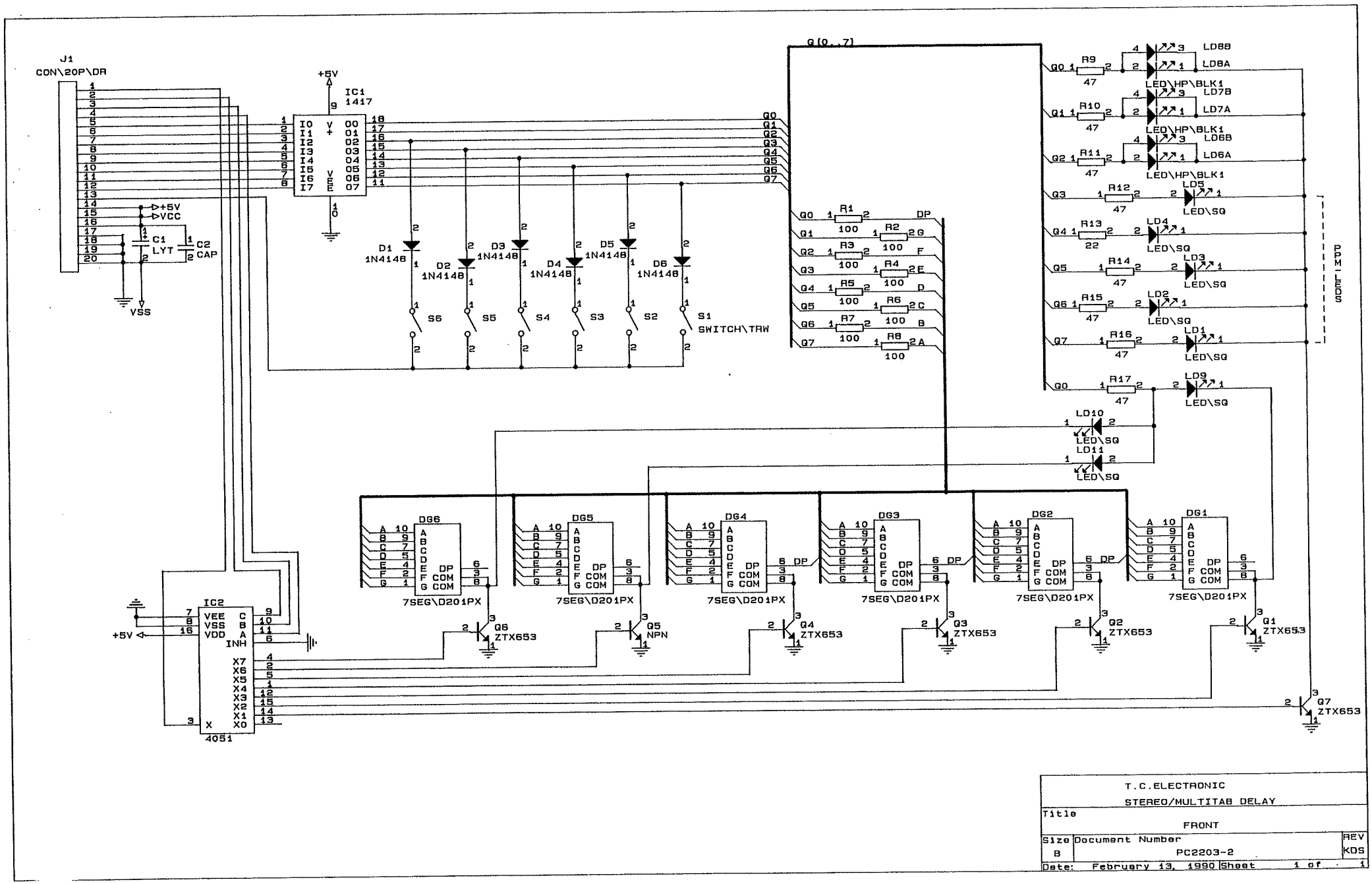
t.c. electronic

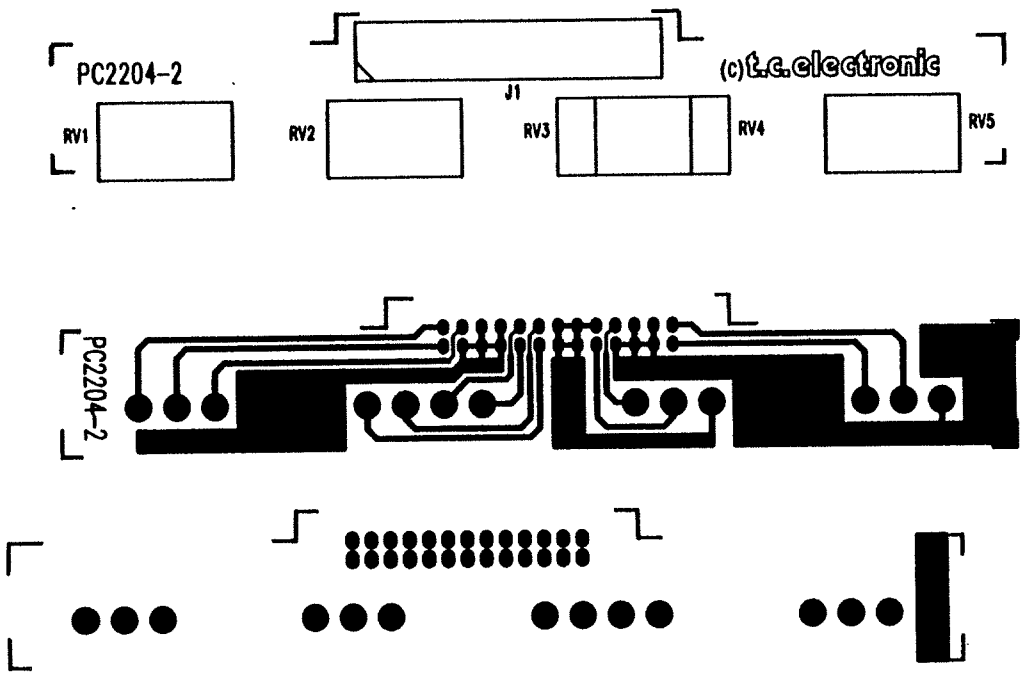
POT TEXT ON FRONT

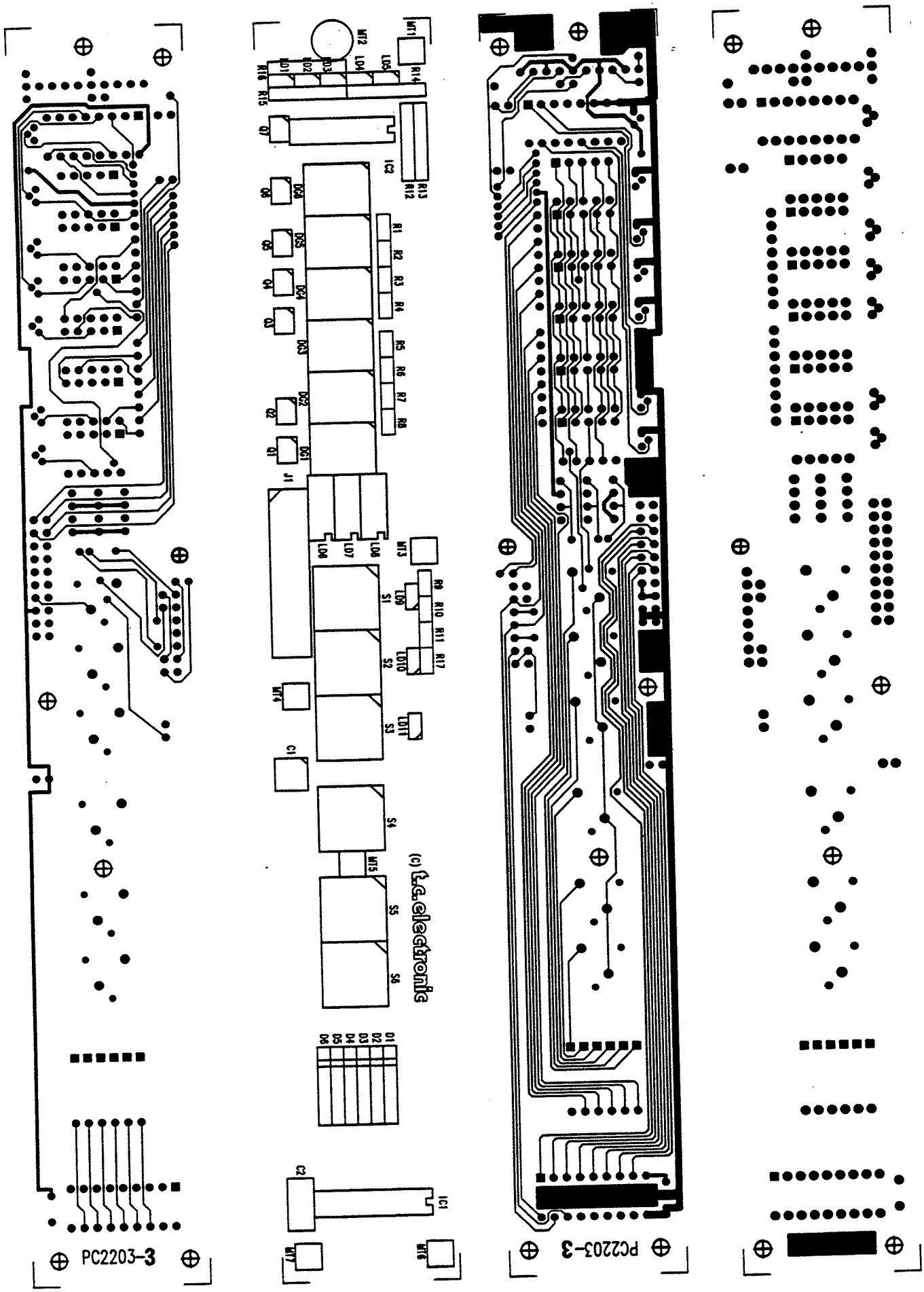
1280/1380



T.C.ELECTRONIC		
TC1280\1380		
Title: Front PW for Pots		
Size: A	Document Number: PC2204V4.SSS	REV: KDS
Date: February 27, 1990	Sheet 1 of 1	


J1
CON\20P\DR
+5V
VCC
VSS
C1
LYT
C2
CAP
IC1
1417
I0
I1
I2
I3
I4
I5
I6
I7
O0
O1
O2
O3
O4
O5
O6
O7
VEE
GND
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q[0..7]
D1
1N4148
D2
1N4148
D3
1N4148
D4
1N4148
D5
1N4148
D6
1N4148
S6
S5
S4
S3
S2
S1
SWITCH\TRW
R1
100
R2
100
R3
100
R4
100
R5
100
R6
100
R7
100
R8
100
DP
2G
F
2E
D
2C
B
2A
R9
47
R10
47
R11
47
R12
47
R13
22
R14
47
R15
47
R16
47
R17
47
LD8B
LD8A
LED\HP\BLK1
LD7B
LD7A
LED\HP\BLK1
LD6B
LD6A
LED\HP\BLK1
LD5
LED\SQ
LD4
LED\SQ
LD3
LED\SQ
LD2
LED\SQ
LD1
LED\SQ
LD9
LED\SQ
LD10
LED\SQ
LD11
LED\SQ
PPMLEDS
DG6
DG5
DG4
DG3
DG2
DG1
A
B
C
D
E
F
G
DP
COM
7SEG\D201PX
Q6
ZTX653
Q5
NPN
Q4
ZTX653
Q3
ZTX653
Q2
ZTX653
Q1
ZTX653
Q7
ZTX653
IC2
VEE
VSS
VDD
INH
A
B
C
X
X7
X6
X5
X4
X3
X2
X1
X0
4051
T.C.ELECTRONIC
STEREO/MULTITAB DELAY
Title
FRONT
Size
B
Document Number
PC2203-2
REV
KDS
Date: February 13, 1990
Sheet 1 of 1


PC2204-2
(c)t.c.electronic
J1
RV1
RV2
RV3
RV4
RV5
PC2204-2

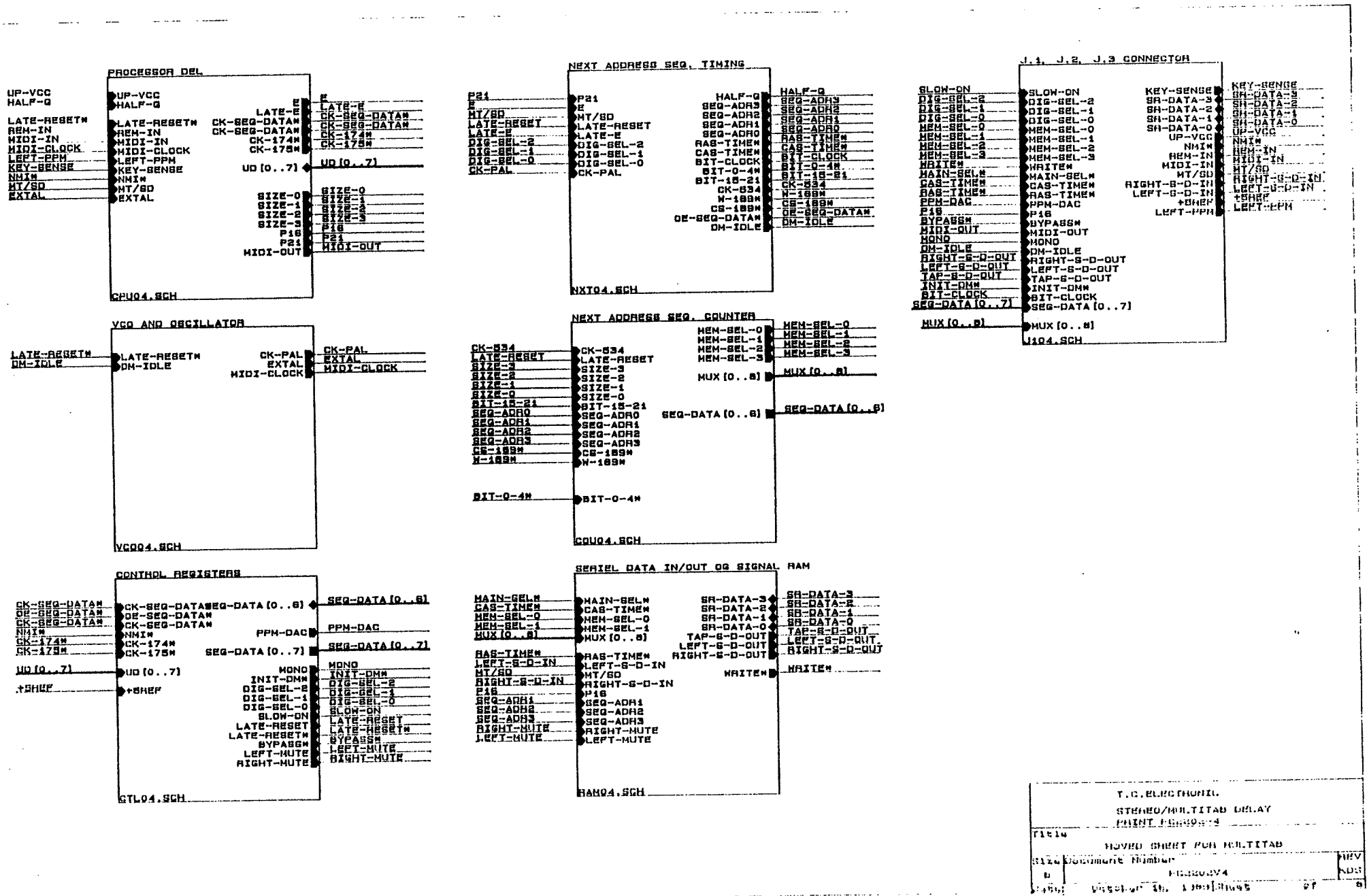


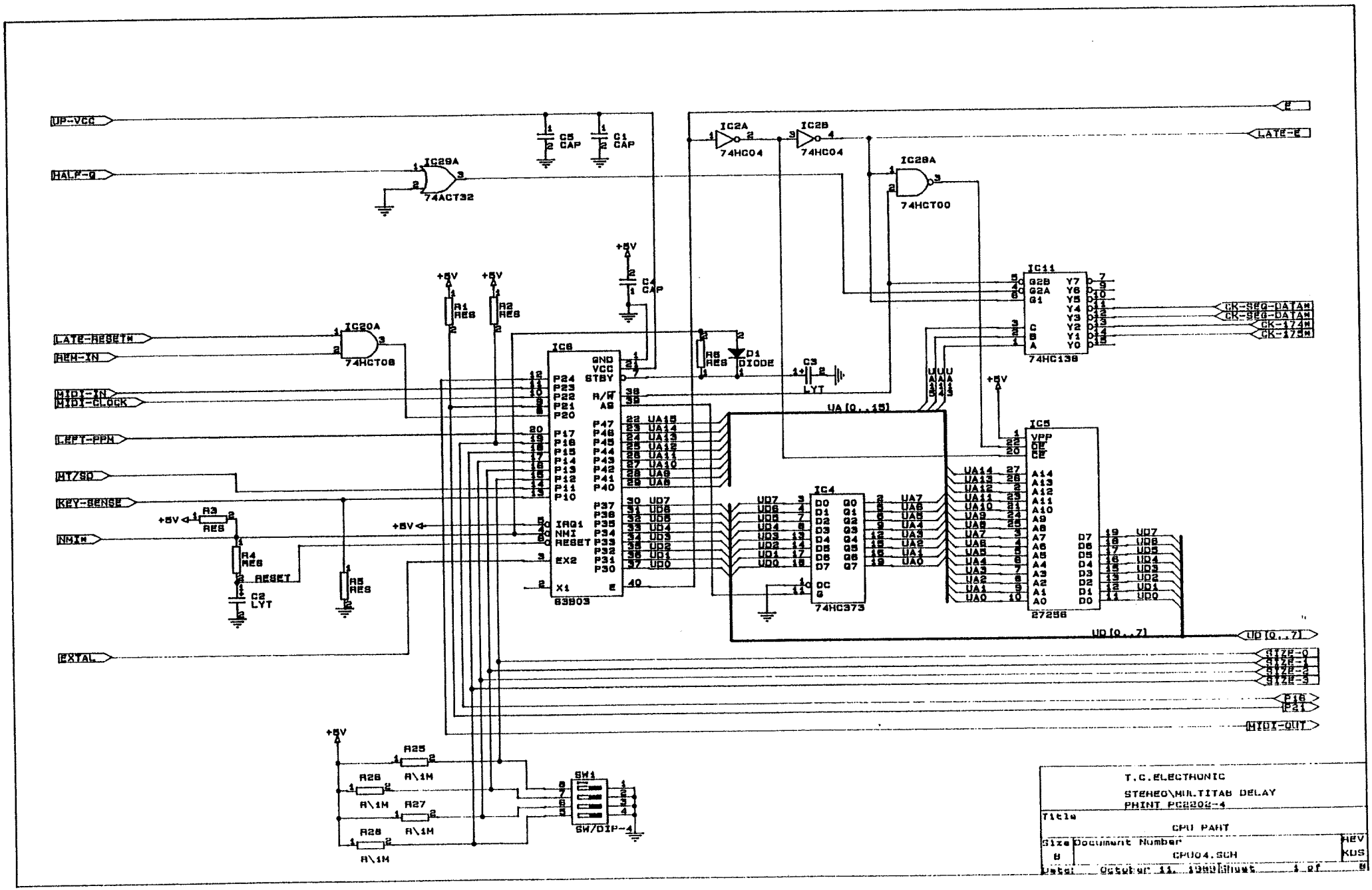
ORIGINAL

Dato:

Arkiv:

17/10 - 89 : KONTROLLERET OG INGEN FEJL





T.C.ELECTRONIC

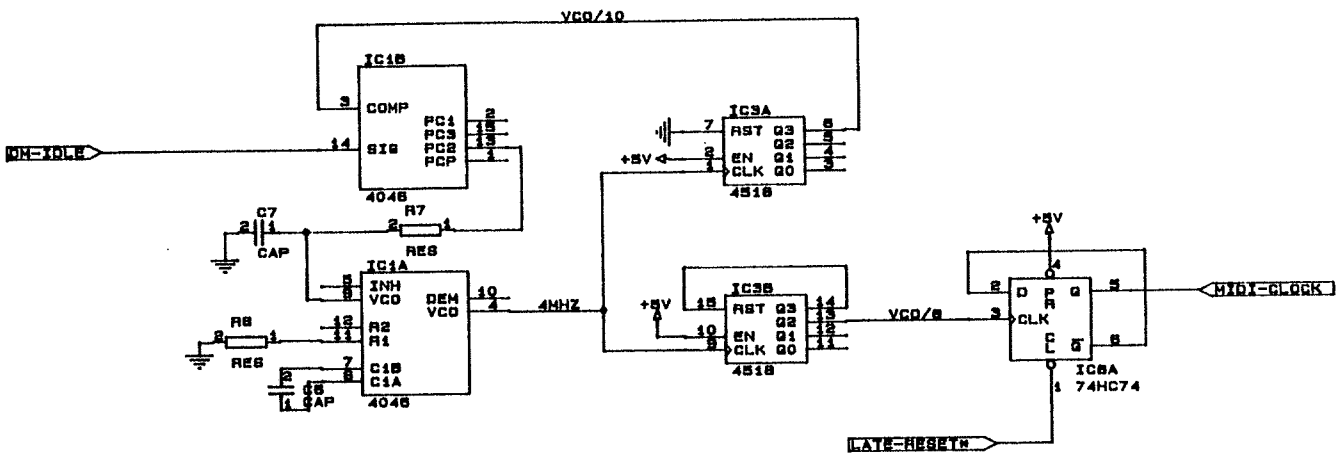
STEREO\MULTITAB DELAY

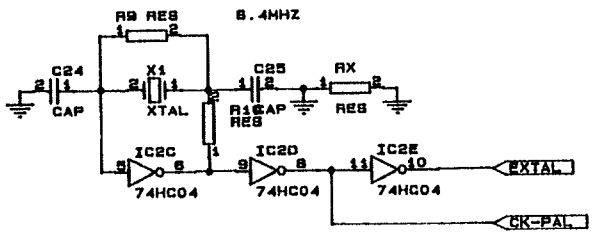
PRINT PC2202-4

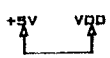
Title: CPU PART

Size: B | Document Number: CPU04.SCH | REV: XDS

Date: October 11, 1990 | Sheet 1 of 8







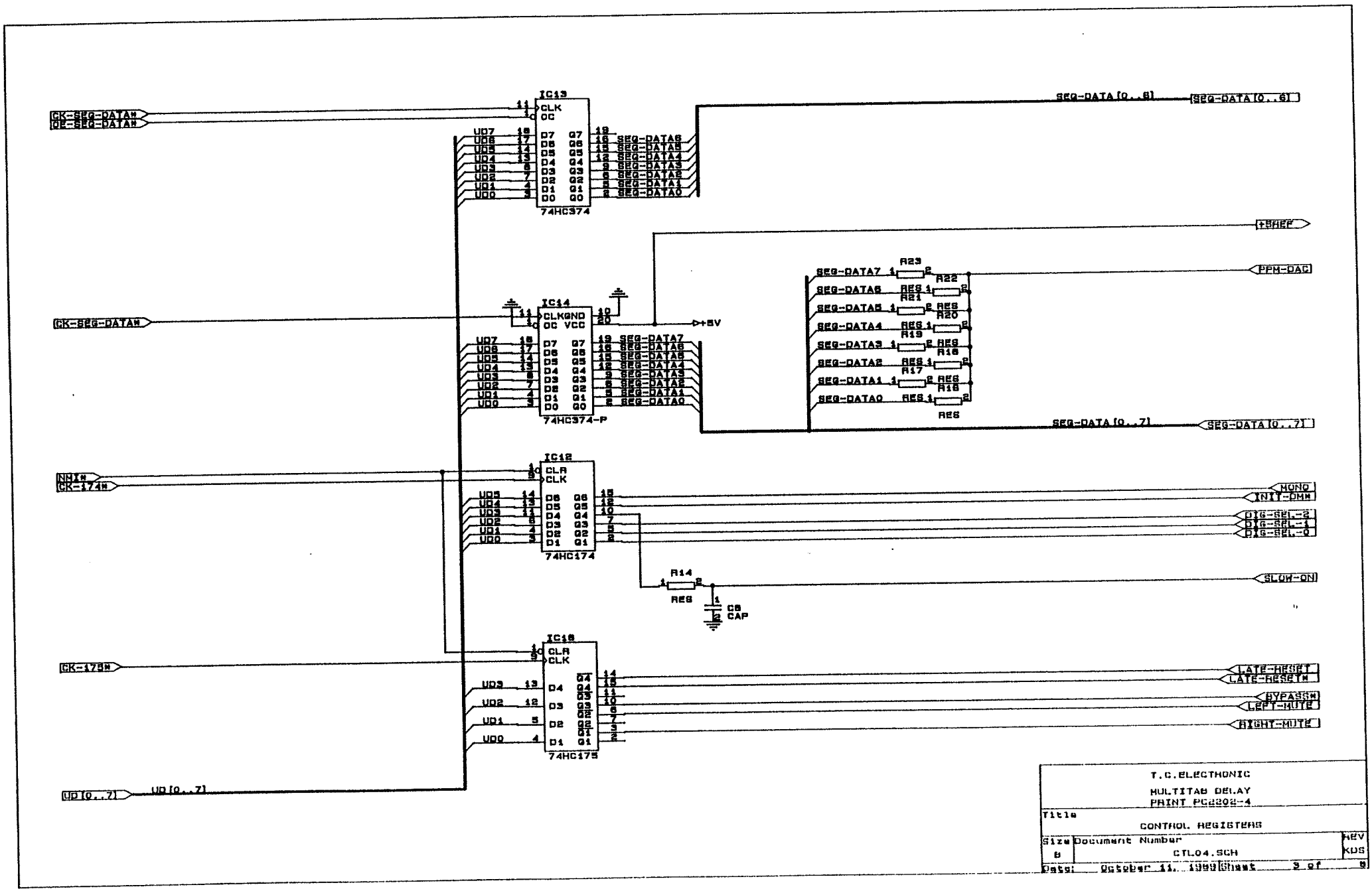
T.C.ELECTRONIC

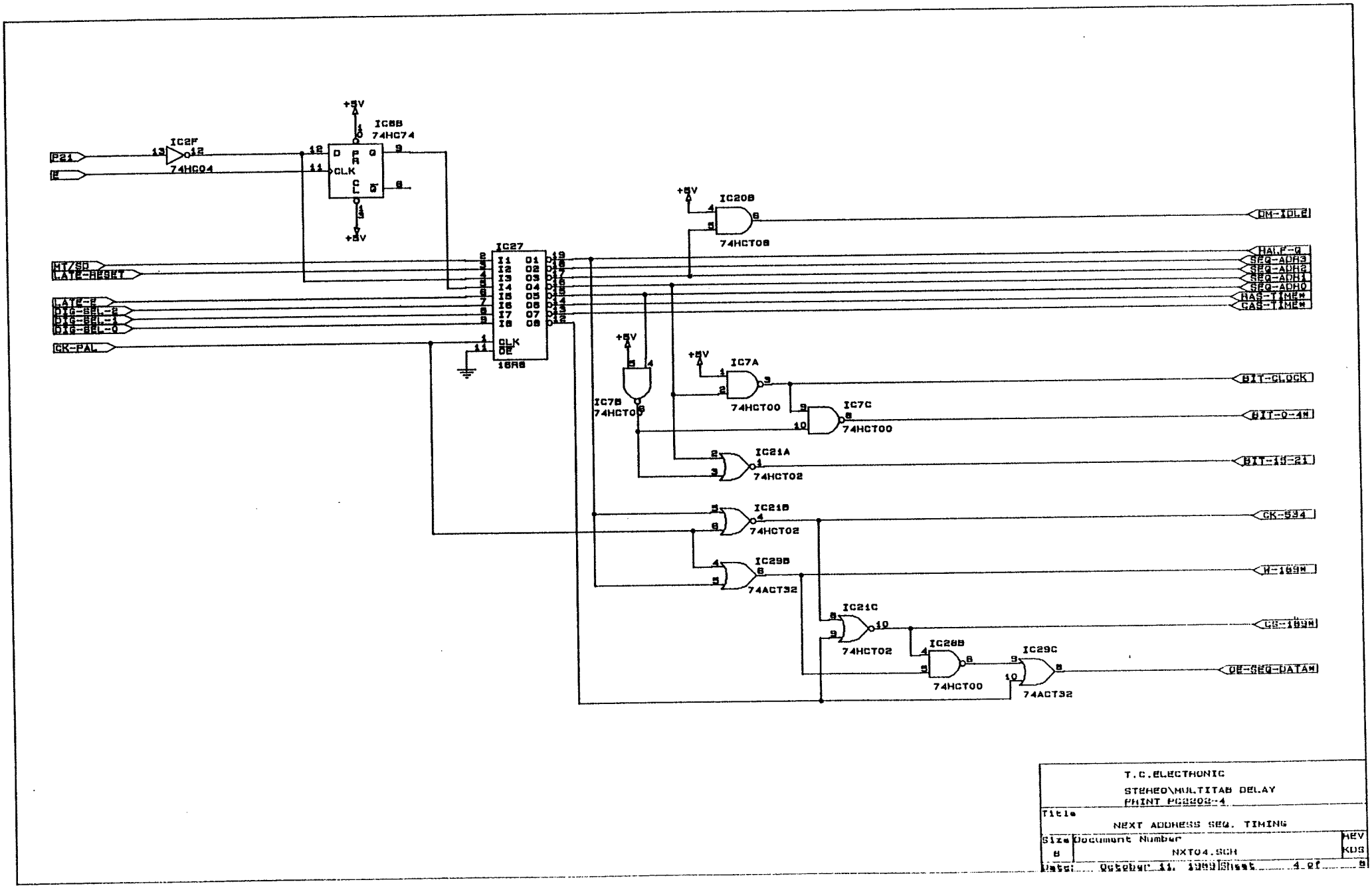
STEREO/MULTITAP DELAY
PRINT PCB202-4

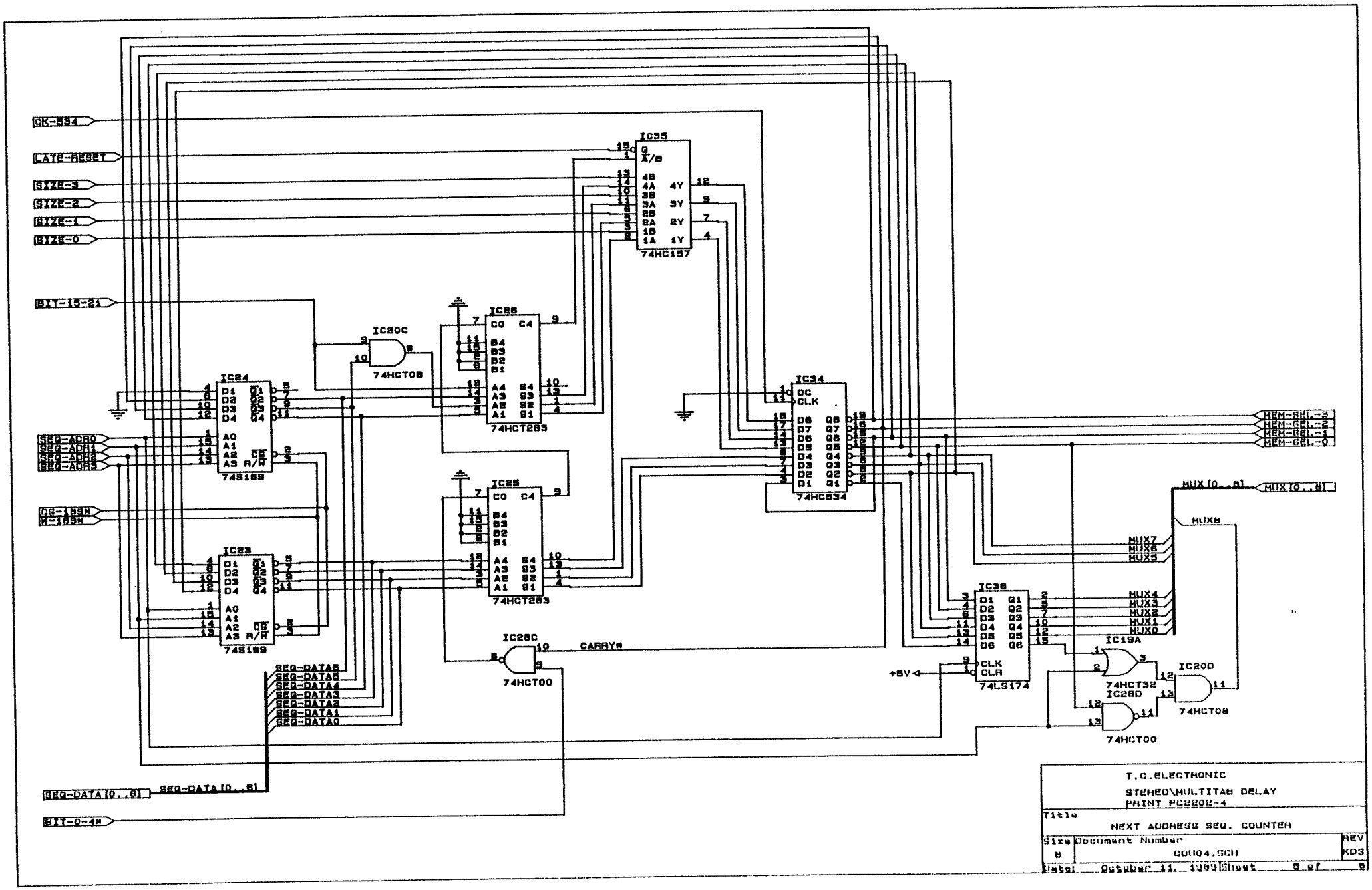
Title
VCO AND OSCILLATOR PART

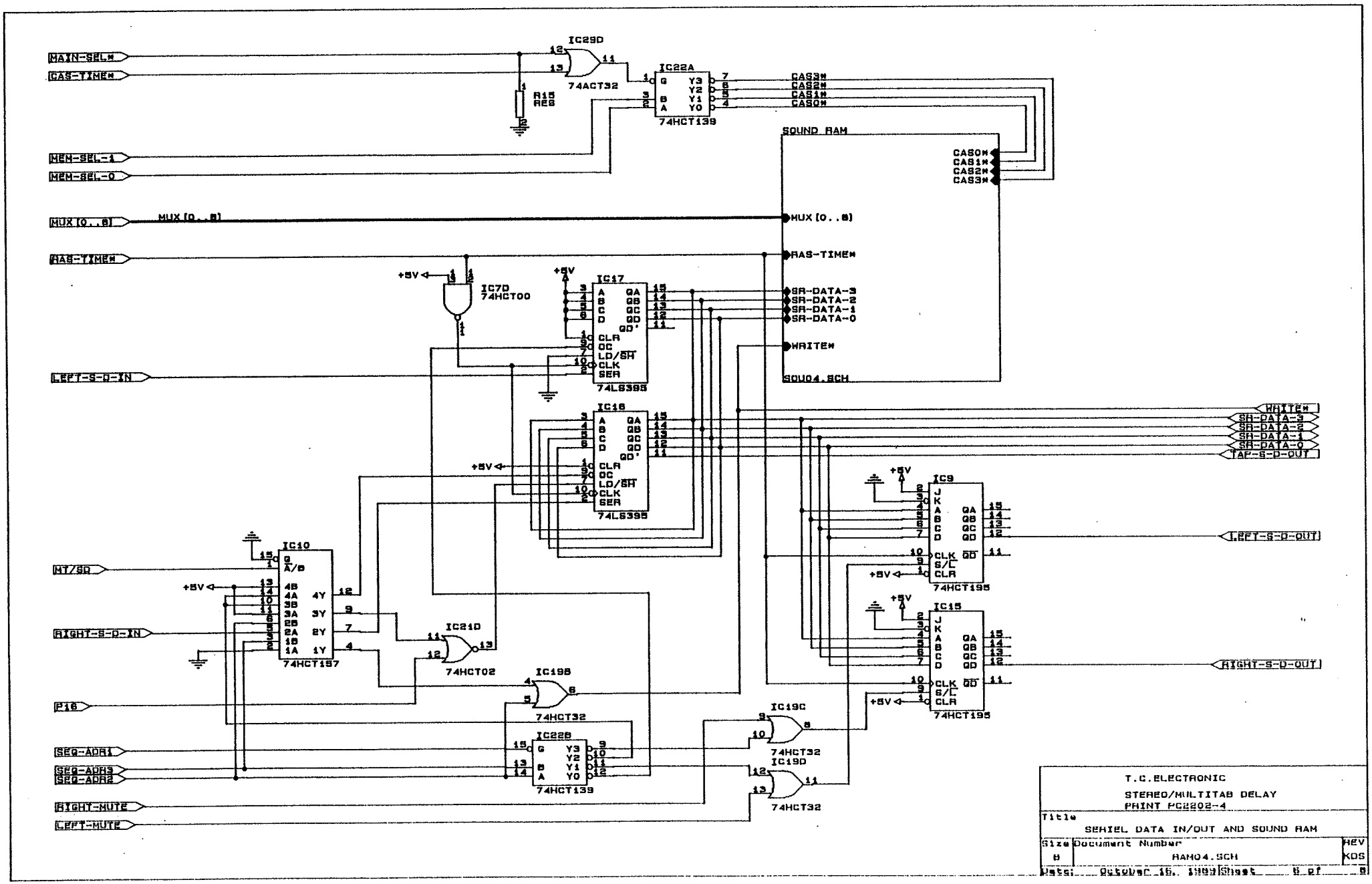
Size	Document Number	Rev
B	VC004.SCH	KD3

Date: December 11, 1988 Sheet 8 of 8


IC13
CK-SEG-DATAM
OE-SEG-DATAM
CLK
OC
UD7 UD6 UD5 UD4 UD3 UD2 UD1 UD0
D7 D6 D5 D4 D3 D2 D1 D0
Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0
SEG-DATA7 SEG-DATA6 SEG-DATA5 SEG-DATA4 SEG-DATA3 SEG-DATA2 SEG-DATA1 SEG-DATA0
74HC374
SEG-DATA[0..8]
SEG-DATA[0..6]
+5REF
IC14
CK-SEG-DATAM
CLKGND
OC VCC
+5V
74HC374-P
R23
R22
R21
R20
R19
R18
R17
R16
R15
R26
PPM-DAC
SEG-DATA[0..7]
SEG-DATA[0..7]
IC12
NMIN
CK-174M
CLR
CLK
D6 D5 D4 D3 D2 D1
Q6 Q5 Q4 Q3 Q2 Q1
74HC174
MONO
INIT-DMM
DIG-SEL-2
DIG-SEL-1
DIG-SEL-0
R14
R26
C8
CAP
SLOW-ON
IC18
CK-175M
CLR
CLK
D4 D3 D2 D1
Q4 Q3 Q2 Q1
74HC175
LATE-RESET
LATE-RESETM
BYPASSM
LEFT-MUTE
RIGHT-MUTE
UD[0..7]
UD[0..7]
T.C.ELECTRONIC
MULTITAP DELAY
PRINT PC82202-4
Title
CONTROL REGISTERS
Size B
Document Number
CTL04.SCH
REV KDS
Date: October 11, 1999
Sheet 9 of 9


+5V
IC8B
74HC74
IC2F
74HC04
P21
E
D
CLK
Q
IC27
16R8
MT/SD
LATE-RESET
LATE-E
DIG-SEL-3
DIG-SEL-2
DIG-SEL-1
DIG-SEL-0
GK-PAL
CLK
OE
IC20B
74HCT08
IC7B
74HCT08
IC7A
74HCT00
IC7C
74HCT00
IC21A
74HCT02
IC21B
74HCT02
IC29B
74ACT32
IC21C
74HCT02
IC28B
74HCT00
IC29C
74ACT32
DM-IDLE
HALF-Q
SEQ-ADR3
SEQ-ADR2
SEQ-ADR1
SEQ-ADR0
RAS-TIMEN
CAS-TIMEN
BIT-CLOCK
BIT-0-4N
BIT-16-21
GK-534
W-169N
OE-SEQ-DATAN
T.C.ELECTRONIC
STEREO\MULTITAB DELAY
PRINT PCB3903-4
Title
NEXT ADDRESS SEQ. TIMING
Size
B
Document Number
NXT04.SCH
REV
KOS
Date: October 11, 1989 Sheet 4 of 9


CK-534
LATE-RESET
SIZE-3
SIZE-2
SIZE-1
SIZE-0
BIT-15-21
SEQ-ADR0
SEQ-ADR1
SEQ-ADR2
SEQ-ADR3
CS-189M
W-189M
SEQ-DATA[0..8]
BIT-0-4M
IC35
74HC157
IC26
74HCT283
IC25
74HCT283
IC24
74S189
IC23
74S189
IC20C
74HCT08
IC28C
74HCT00
IC34
74HC534
IC36
74LS174
IC19A
74HCT32
IC20D
74HCT08
IC28D
74HCT00
CARRYM
+5V
MUX[0..8]
MUX8
MUX7
MUX6
MUX5
MUX4
MUX3
MUX2
MUX1
MUX0
MEM-SH[-3]
MEM-SH[-2]
MEM-SH[-1]
MEM-SH[-0]
T.C.ELECTRONIC
STEREO\MULTITAP DELAY
PRINT PC2202-4
Title
NEXT ADDRESS SEQ. COUNTER
Size
B
Document Number
CDU04.SCH
REV
KDS
Date: October 11, 1989 Sheet 5 of 8



T.C.ELECTRONIC

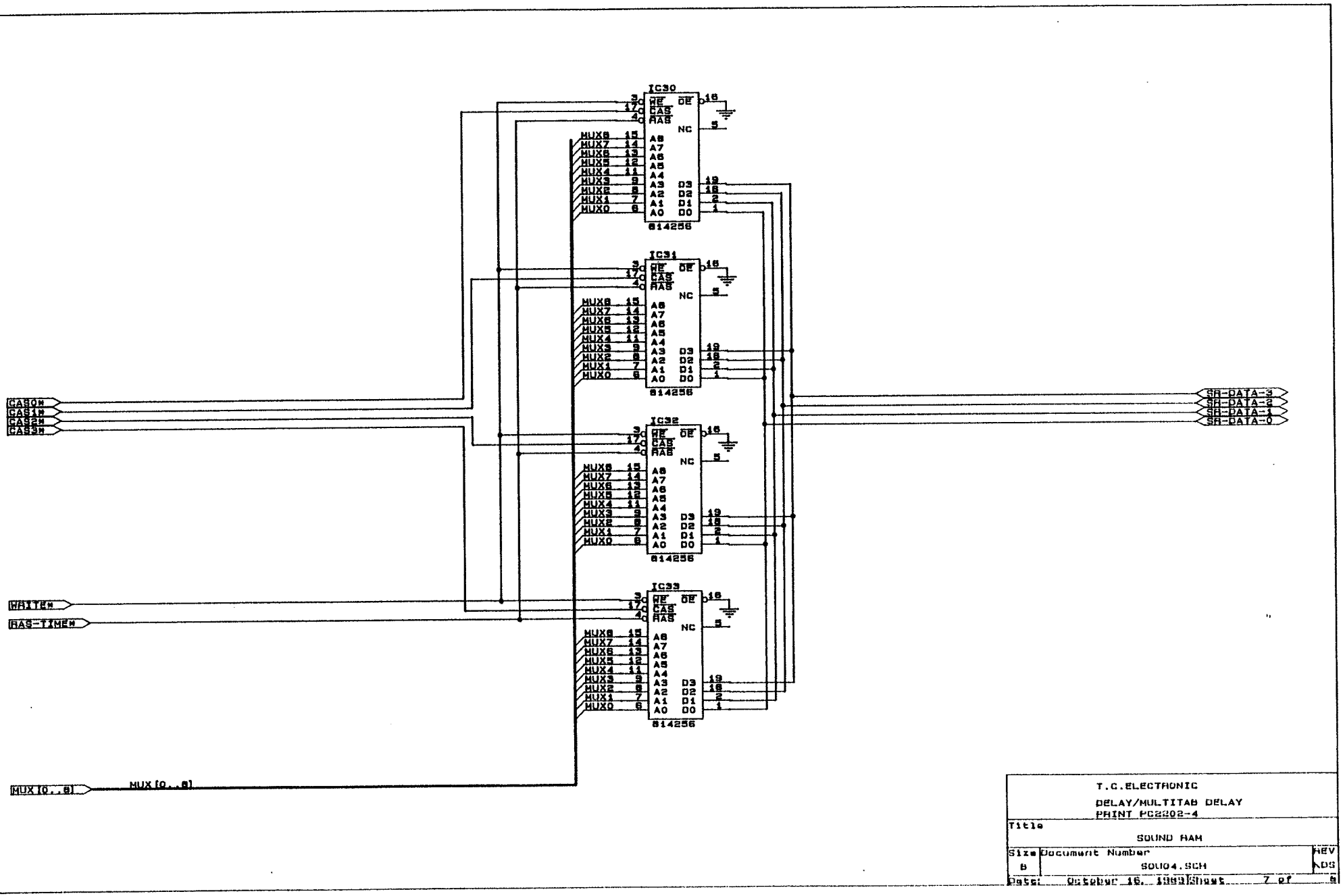
STEREO/MULTITAB DELAY

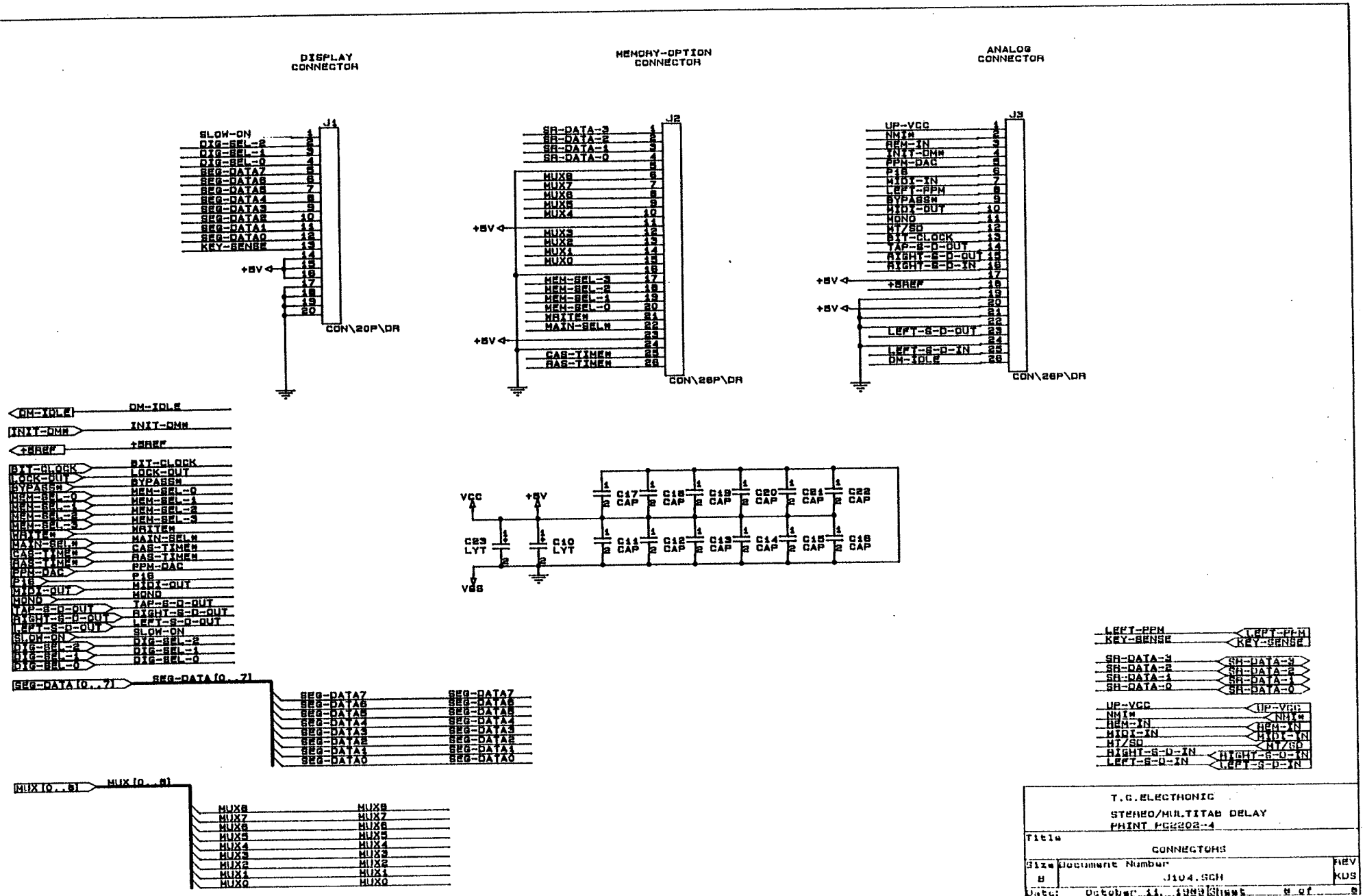
PRINT PC2202-4

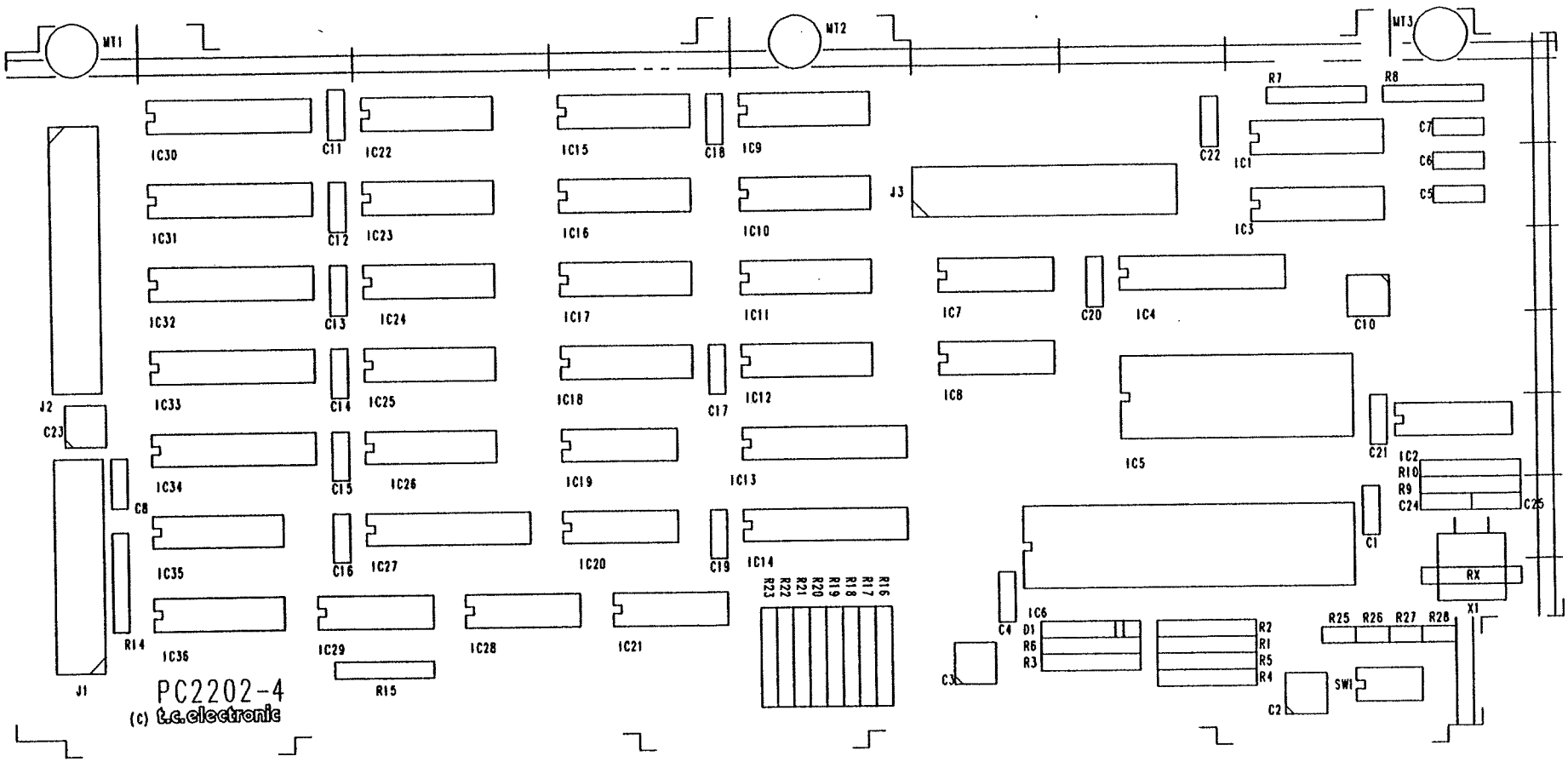
Title: SERIEL DATA IN/OUT AND SOUND RAM

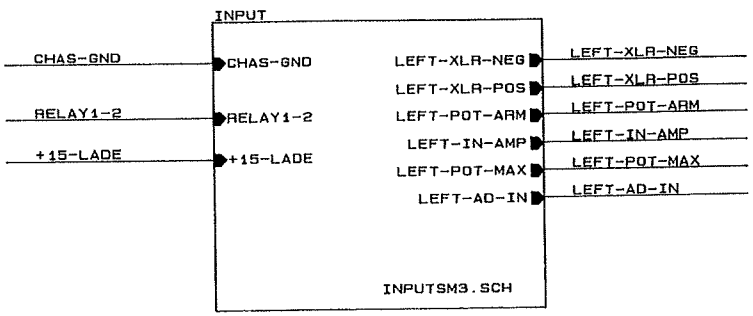
Size	Document Number	REV
B	RAM04.SCH	KDS

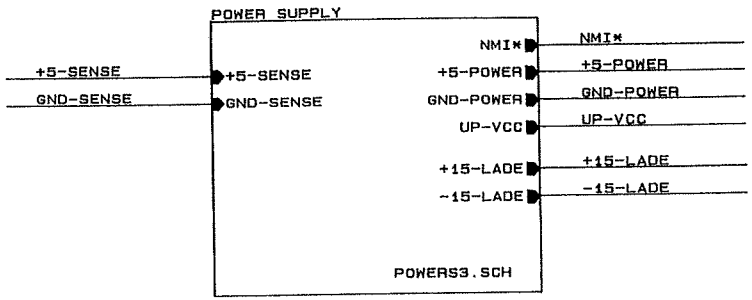
Date: October 16, 1989 Sheet 6 of 9

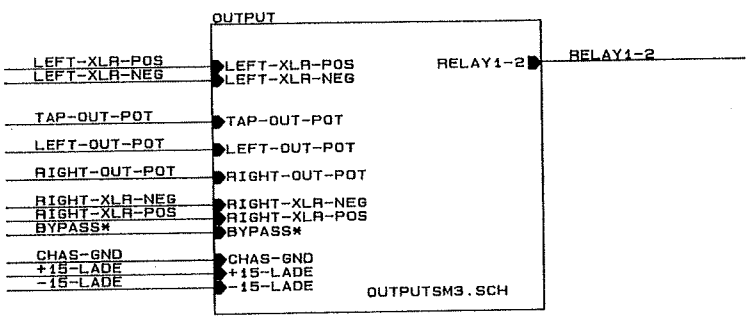

IC30
IC31
IC32
IC33
814256
WE
OE
CAS
RAS
NC
A8
A7
A6
A5
A4
A3
A2
A1
A0
D3
D2
D1
D0
MUX8
MUX7
MUX6
MUX5
MUX4
MUX3
MUX2
MUX1
MUX0
CAS0N
CAS1N
CAS2N
CAS3N
WRITEN
RAS-TIMEN
MUX[0..8]
SR-DATA-3
SR-DATA-2
SR-DATA-1
SR-DATA-0
T.C.ELECTRONIC
DELAY/MULTITAB DELAY
PRINT PC2202-4
Title
SOUND RAM
Size
B
Document Number
SOU04.SCH
REV
A.05
Date: October 16, 1991
Sheet 7 of 9

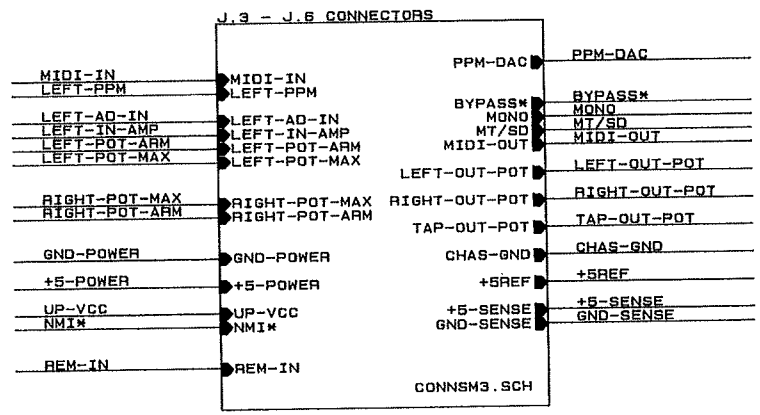

DISPLAY CONNECTOR
J1
SLOW-ON
DIG-SEL-2
DIG-SEL-1
DIG-SEL-0
SEG-DATA7
SEG-DATA6
SEG-DATA5
SEG-DATA4
SEG-DATA3
SEG-DATA2
SEG-DATA1
SEG-DATA0
KEY-SENSE
+5V
CON\20P\DR
MEMORY-OPTION CONNECTOR
J2
SR-DATA-3
SR-DATA-2
SR-DATA-1
SR-DATA-0
MUX8
MUX7
MUX6
MUX5
MUX4
+5V
MUX3
MUX2
MUX1
MUX0
MEM-SEL-3
MEM-SEL-2
MEM-SEL-1
MEM-SEL-0
WRITEN
MAIN-SELN
+5V
CAS-TIMEN
RAS-TIMEN
CON\28P\DR
ANALOG CONNECTOR
J3
UP-VCC
NMIN
MEM-IN
INIT-DMN
PPM-DAC
P18
MIDI-IN
LEFT-PPM
BYPASSN
MIDI-OUT
MONO
MT/SO
BIT-CLOCK
TAP-S-D-OUT
RIGHT-S-D-OUT
RIGHT-S-D-IN
+5V
+5VREF
+5V
LEFT-S-D-OUT
LEFT-S-D-IN
DM-IDLE
CON\28P\DR
DM-IDLE
INIT-DMN
+5VREF
BIT-CLOCK
LOCK-OUT
BYPASSN
MEM-SEL-0
MEM-SEL-1
MEM-SEL-2
MEM-SEL-3
WRITEN
MAIN-SELN
CAS-TIMEN
RAS-TIMEN
PPM-DAC
P18
MIDI-OUT
MONO
TAP-S-D-OUT
RIGHT-S-D-OUT
LEFT-S-D-OUT
SLOW-ON
DIG-SEL-2
DIG-SEL-1
DIG-SEL-0
SEG-DATA[0..7]
SEG-DATA[0..7]
SEG-DATA7
SEG-DATA6
SEG-DATA5
SEG-DATA4
SEG-DATA3
SEG-DATA2
SEG-DATA1
SEG-DATA0
MUX[0..8]
MUX[0..8]
MUX8
MUX7
MUX6
MUX5
MUX4
MUX3
MUX2
MUX1
MUX0
VCC
+5V
C17 CAP
C18 CAP
C19 CAP
C20 CAP
C21 CAP
C22 CAP
C23 LYT
C10 LYT
C11 CAP
C12 CAP
C13 CAP
C14 CAP
C15 CAP
C16 CAP
VSS
LEFT-PPM
KEY-SENSE
SR-DATA-3
SR-DATA-2
SR-DATA-1
SR-DATA-0
UP-VCC
NMIN
MEM-IN
MIDI-IN
MT/SO
RIGHT-S-D-IN
LEFT-S-D-IN
T.C.ELECTRONIC
STEREO/MULTITAB DELAY
PRINT PCB202-4
Title
CONNECTORS
Size B
Document Number J104.SCH
REV KUS
Date: October 11, 1993 Sheet 8 of 8

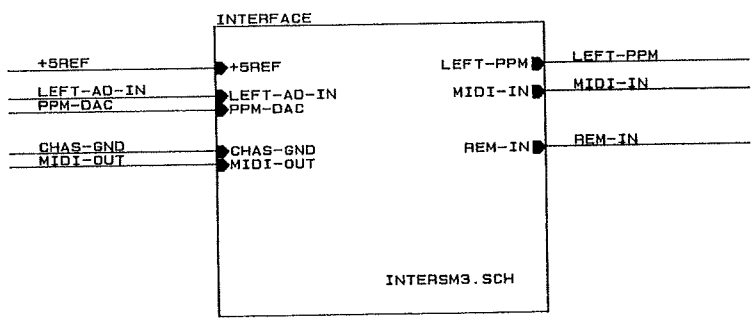

MT1
MT2
MT3
IC30
IC31
IC32
IC33
IC34
IC35
IC36
IC22
IC23
IC24
IC25
IC26
IC27
IC29
IC28
IC21
IC15
IC16
IC17
IC18
IC19
IC20
IC9
IC10
IC11
IC12
IC13
IC14
C11
C12
C13
C14
C15
C16
C18
C17
C19
R23
R22
R21
R20
R19
R18
R17
R16
R15
J1
J2
J3
C23
C8
R14
PC2202-4
(C) t.c.electronic
IC7
IC8
C22
C20
IC4
IC5
IC1
IC3
R7
R8
C7
C6
C5
C10
C21
IC2
R10
R9
C24
C25
C1
RX
X1
IC6
D1
R6
R3
R2
R1
R5
R4
C4
C3
C2
SW1
R25
R26
R27
R28











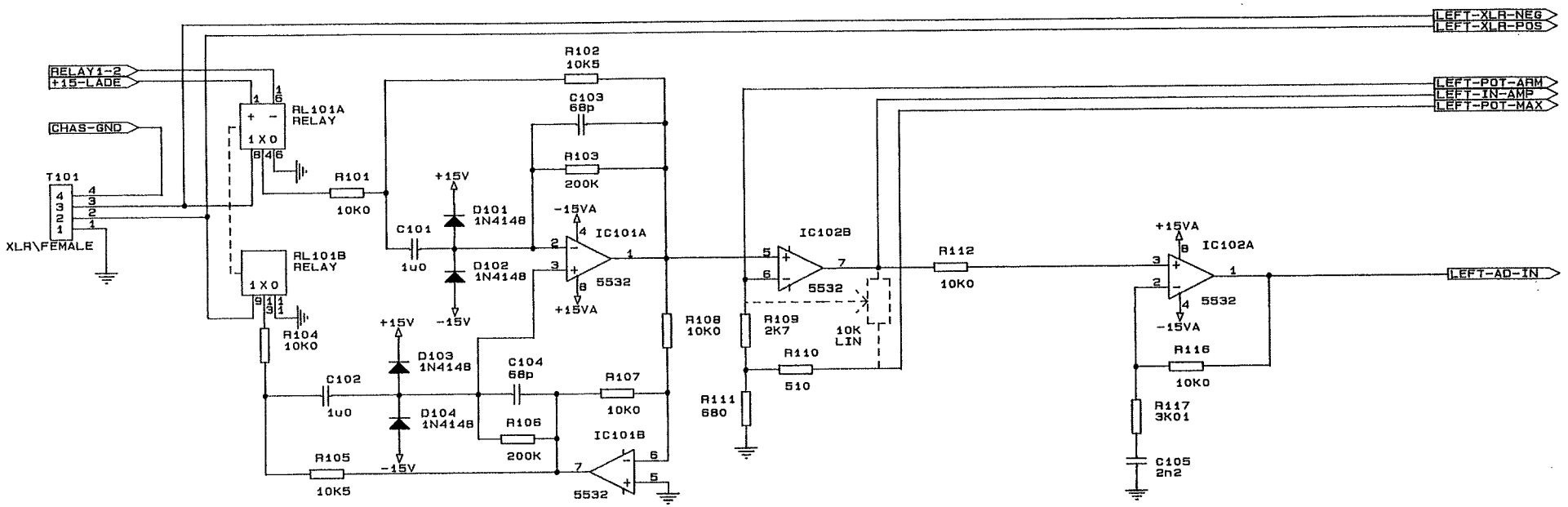
T.C.ELECTRONIC

TC1380 MULTITAB DELAY
PRINT PC2201-4 MAIN
SERVICE DIAGRAM

Title: HOVEDSHEET FOR PC2201

Size	Document Number	REV
B	PC2201SM3.sch	KDS

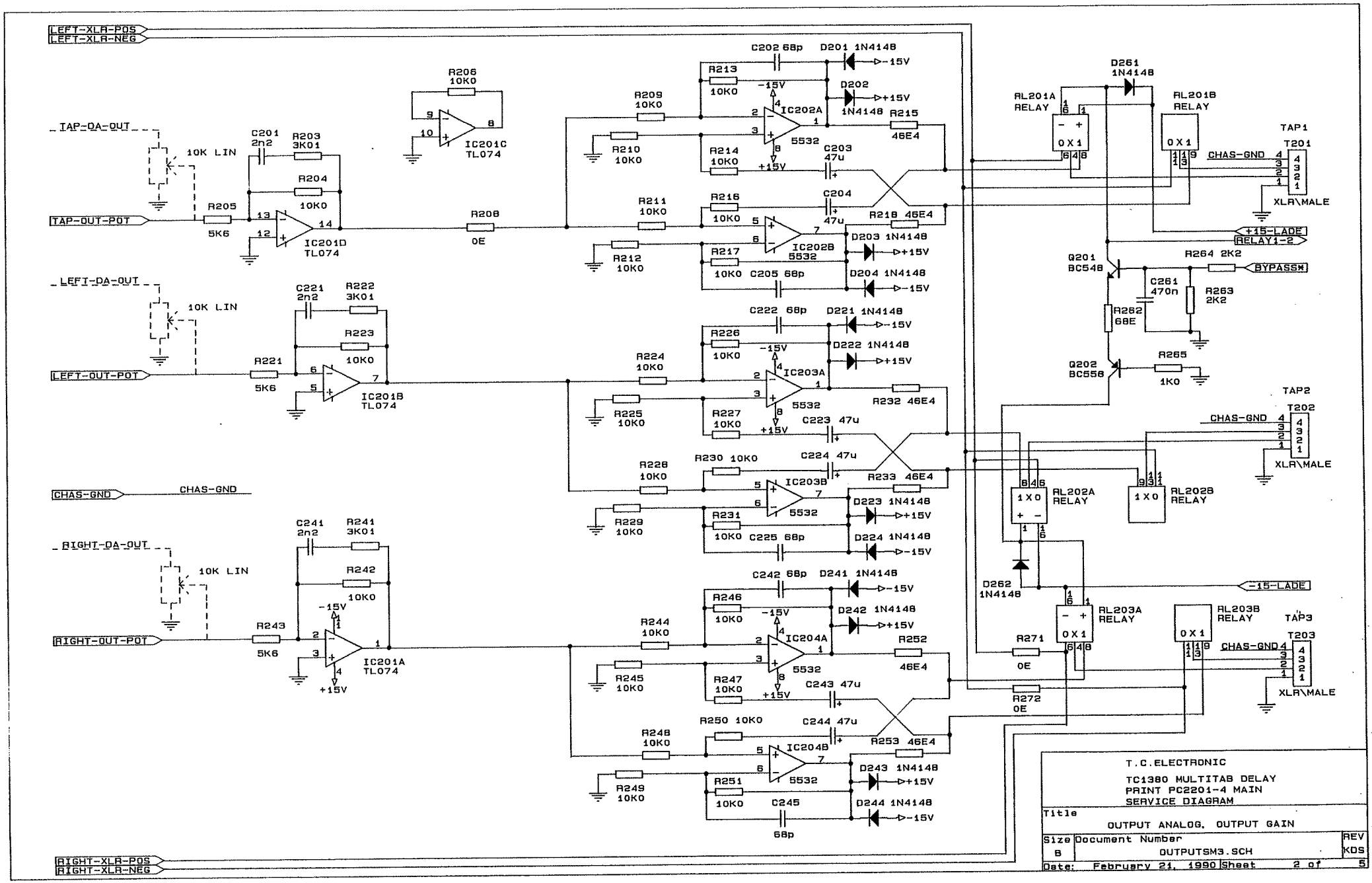
Date: February 21, 1990 Sheet of 5

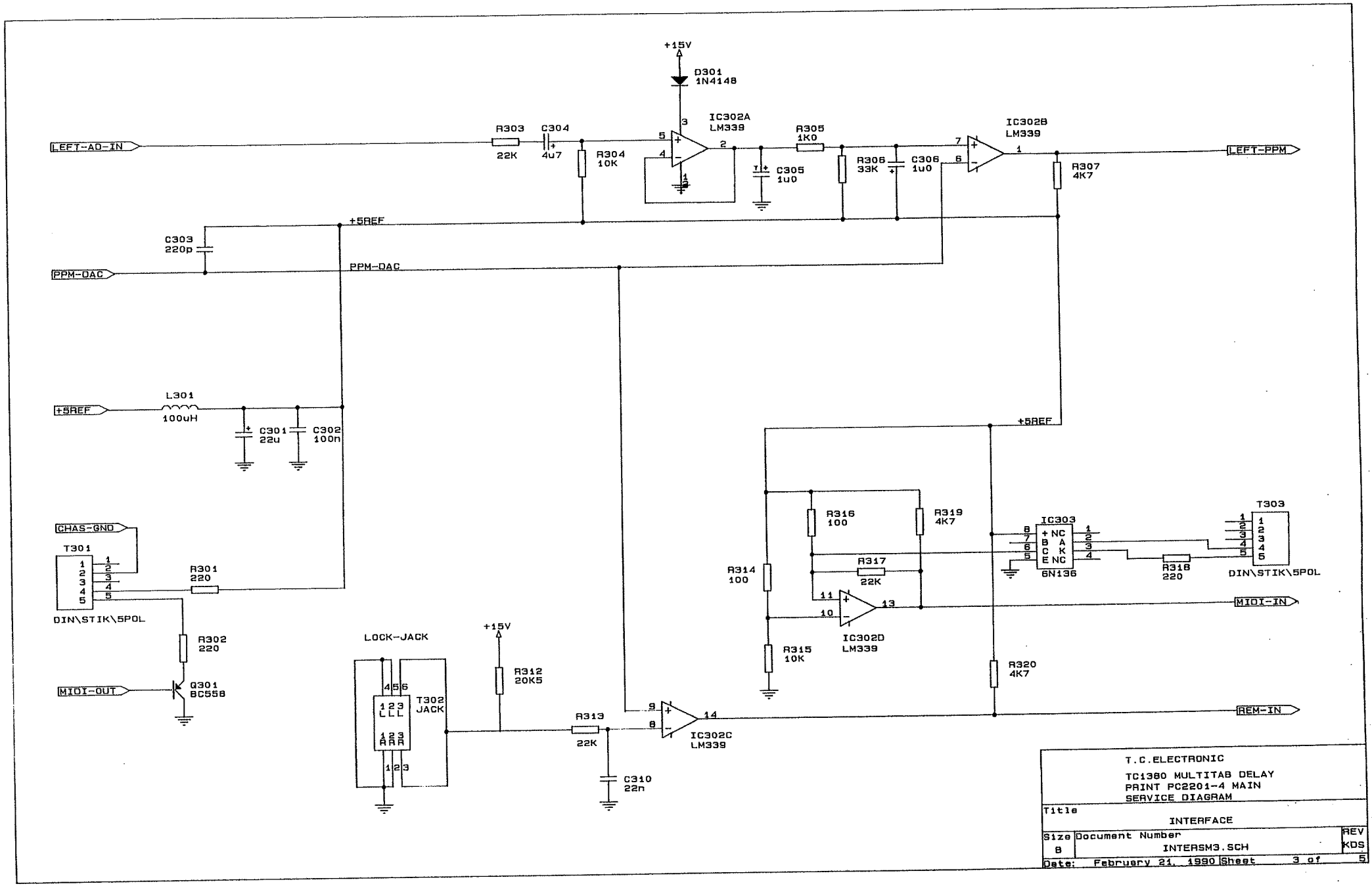


T.C.ELECTRONIC

1380 MULTITAB DELAY
PRINT PC2201-4 MAIN
SERVICE DIAGRAM

Title	INPUT ANALOG, INPUT GAIN	
Size B	Document Number INPUTSM3.SCH	REV KDS
Date: February 21, 1990	Sheet 1 of 5	


LEFT-XLR-POS
LEFT-XLR-NEG
TAP-DA-OUT
10K LIN
C201 2n2
R203 3K01
R204 10K0
R205 5K6
TAP-OUT-POT
IC201D TL074
R206 10K0
IC201C TL074
R208 0E
LEFT-DA-OUT
C221 2n2
R222 3K01
R223 10K0
R221 5K6
LEFT-OUT-POT
IC201B TL074
CHAS-GND
CHAS-GND
RIGHT-DA-OUT
C241 2n2
R241 3K01
R242 10K0
R243 5K6
RIGHT-OUT-POT
IC201A TL074
+15V
-15V
C202 68p
D201 1N4148
R213 10K0
D202 1N4148
R209 10K0
IC202A
R215 46E4
R210 10K0
R214 10K0
C203 47u
R211 10K0
R216 10K0
C204 47u
R218 46E4
IC202B 5532
D203 1N4148
R212 10K0
R217 10K0
C205 68p
D204 1N4148
C222 68p
D221 1N4148
R226 10K0
D222 1N4148
R224 10K0
IC203A
R232 46E4
R225 10K0
R227 10K0
C223 47u
R228 10K0
R230 10K0
C224 47u
IC203B 5532
R233 46E4
D223 1N4148
R229 10K0
R231 10K0
C225 68p
D224 1N4148
C242 68p
D241 1N4148
R246 10K0
D242 1N4148
R244 10K0
IC204A
R252 46E4
R245 10K0
R247 10K0
C243 47u
R250 10K0
C244 47u
R248 10K0
IC204B 5532
R253 46E4
D243 1N4148
R249 10K0
R251 10K0
C245 68p
D244 1N4148
D261 1N4148
RL201A RELAY
RL201B RELAY
0 X 1
TAP1
T201
CHAS-GND
XLR\MALE
+15-LADE
RELAY1-2
Q201 BC548
R264 2K2
BYPASSM
C261 470n
R263 2K2
R262 68E
Q202 BC556
R265 1K0
TAP2
T202
CHAS-GND
XLR\MALE
1 X 0
RL202A RELAY
RL202B RELAY
D262 1N4148
-15-LADE
RL203A RELAY
RL203B RELAY
TAP3
T203
CHAS-GND
XLR\MALE
R271 0E
R272 0E
RIGHT-XLR-POS
RIGHT-XLR-NEG
T.C.ELECTRONIC
TC1380 MULTITAB DELAY
PRINT PC2201-4 MAIN
SERVICE DIAGRAM
Title
OUTPUT ANALOG, OUTPUT GAIN
Size B
Document Number
OUTPUTSM3.SCH
REV KDS
Date: February 21, 1990
Sheet 2 of 5



T.C.ELECTRONIC	
TC1380 MULTITAB DELAY PRINT PC2201-4 MAIN SERVICE DIAGRAM	
Title	INTERFACE
Size: B	Document Number: INTERSM3.SCH — REV: KDS
Date: February 21, 1990	Sheet 3 of 5

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R  ,315,MODST  ,1B5%010K-,10K          ,G3 ,3  , MIDI in
R  ,316,MODST  ,1A5%100E-,100E         ,G3 ,3  , MIDI in
R  ,317,MODST  ,1B5%022K-,22K          ,G3 ,3  , MIDI in
R  ,318,MODST  ,1A5%220E-,220E         ,G5 ,3  , MIDI in
R  ,319,MODST  ,1B5%004K7,4K7          ,G3 ,3  , MIDI in
R  ,320,MODST  ,1B5%004K7,4K7          ,E2 ,3  , Remote inp. comparat. pull up
R  ,401,MODST  ,1B5%001K8,1K8          ,H1 ,4  , foldback sammen med R2. Rettet
   til 1K8 for at matche PC2201-4, hvor R403 forventes at vaere 500 mohm.
   Derefter skulle I max ved 5 volt vaere 850 mA og I short = 250 mA. Pt.ikke
   kontroleret.
R  ,402,MODST  ,1A5%100E-,100E         ,H1 ,4  , foldback sammen med R1
R  ,403,MODST  ,        ,             ,H1 ,4  , printmodstand 200-500 mohm ?
R  ,404,MODST  ,1B5%002K2,2K2          ,H3 ,4  , +5V reg. open loop filter
R  ,405,MODST  ,1B5%003K3,3K3          ,F1 ,4  , foroeger power fail senselevel
R  ,406,MODST  ,1%B005K11,5K11 1%      ,F1 ,4  , +5V reference.
R  ,407,MODST  ,1%B010K0-,10K0 1%      ,H3 ,4  , se R406
R  ,408,MODST  ,1B5%004K7,4K7          ,H3 ,4  , batteribackup
R  ,409,MODST  ,1A5%470E-,470E         ,H3 ,4  , batteribackup
R  ,410,MODST  ,1B5%010K-,10K          ,H2 ,4  , kortslutningssikring af
   batteri og I laek maaling.
R  ,411,MODST  ,1B5%020K-,20K          ,H4 ,4  , +15V reg. feedback
R  ,412,MODST  ,1B5%043K-,43K          ,H4 ,4  , +15V reg. feedback
R  ,413,MODST  ,1%B010K0-,10K0 1%      ,H4 ,4  , -15V reference.
R  ,414,MODST  ,1%B010K0-,10K0 1%      ,H4 ,4  , -15V reference
R  ,415,MODST  ,1A5%680E-,680E         ,F1 ,4  , filt. til power fail detector.
R  ,416,MODST  ,1A5%022E-,22E          ,C2 ,4  , +15VA filter
R  ,417,MODST  ,1A5%022E-,22E          ,C2 ,4  , -15VA filter
R  ,501,MODST  ,        ,open         ,C2 ,5  ,
R  ,502,MODST  ,19-LUS-00,0E           ,A1 ,5  , select. dig. pw. for multitap.
R  ,503,MODST  ,        ,open         ,A1 ,5  ,
R  ,504,MODST  ,19-LUS-00,0E           ,C1 ,5  , dig. audio til second DA conv.
R  ,505,MODST  ,19-LUS-00,0E           ,C2 ,5  , ana. audio fra second DA conv.
R  ,506,MODST  ,1D5%004E7,4E7 PR37     ,E4 ,5  , analog gnd. til chassis

RL ,101,RELAY  ,G-RELÆ-24,2POL 24V     ,A5 ,   ,
RL ,102,RELAY  ,        ,open         ,B5 ,   ,
RL ,103,RELAY  ,        ,open         ,B5 ,   ,
RL ,201,RELAY  ,G-RELÆ-24,2POL 24V     ,C5 ,   , tap 1 output bypass relay
RL ,202,RELAY  ,G-RELÆ-24,2POL 24V     ,D5 ,   , tap 2 output bypass relay
RL ,203,RELAY  ,G-RELÆ-24,2POL 24V     ,E5 ,   , tap 3 output bypass relay

RT ,401,TRIMMER,2HLB004K7,4K7 vandret  ,H5 ,   , justering af +15 til +/-1%

C  ,101,MKT    ,34-C001U-,1u0 5% 2E    ,A4 ,1  , left input AC kobling
C  ,102,MKT    ,34-C001U-,1u0 5% 2E    ,A4 ,1  , left input AC kobling
C  ,103,PLAQ   ,31-A068P-,68p          ,A1 ,1  , left input amp.
C  ,104,PLAQ   ,31-A068P-,68p          ,A3 ,1  , left input amp.
C  ,105,STYRO  ,32-B002N2,2n2 1%       ,B3 ,1  , left preemphase
C  ,121,MKC    ,        ,open         ,B4 ,1  ,
C  ,122,MKC    ,        ,open         ,B4 ,1  ,
C  ,123,PLAQ   ,        ,open         ,B2 ,1  ,
C  ,124,PLAQ   ,        ,open         ,B4 ,1  ,
C  ,125,STYRO  ,        ,open         ,C4 ,1  ,
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C	,201,STYRO	,32-B002N2,2n2 1%	,C3	,2	,	Tap 1 deemphase
C	,202,PLAQ	,31-A068P-,68p	,C3	,2	,	tap 1 diff. out driver
C	,203,ELLYT	,382S0047U,47u/25V 2E	,C4	,2	,	tap 1 diff. out driver
C	,204,ELLYT	,382S0047U,47u/25V	,C4	,2	,	tap 1 diff. out driver
C	,205,PLAQ	,31-A068P-,68p	,C4	,2	,	tap 1 diff. out driver
C	,221,STYRO	,32-B002N2,2N2 1%	,D2	,2	,	left out deemphase
C	,222,PLAQ	,31-A068P-,68p	,E3	,2	,	tap 2 diff. out driver
C	,223,ELLYT	,382S0047U,47u/25V 2E	,E4	,2	,	tap 2 diff. out driver
C	,224,ELLYT	,382S0047U,47u/25V 2E	,E4	,2	,	tap 2 diff. out driver
C	,225,PLAQ	,31-A068P-,68p	,E4	,2	,	tap 2 diff. out driver
C	,241,STYRO	,32-B002N2,2n2 1%	,C2	,1	,	tap 3 deemphase.
C	,242,PLAQ	,31-A068P-,68p	,F3	,2	,	tap 3 diff. out driver
C	,243,ELLYT	,382S0047U,47u/25V 2E	,F4	,2	,	tap 3 diff. out driver
C	,244,ELLYT	,382S0047U,47u/25V 2E	,F4	,2	,	tap 3 diff. out driver
C	,245,PLAQ	,31-A068P-,68p	,G4	,2	,	tap 3 diff. out driver
C	,261,ELLYT	,381S004U7,4u7/35V	,A4	,2	,	bypass relay driver
C	,301,ELLYT	,381S022U-,22u/25V 1E	,E1	,3	,	afkobling af +5REF
C	,302,MTL	,36-B100N-,100n	,E1	,3,	,	HF afkobling af +5REF
C	,303,PLAQ	,31-A220P-,220p	,F2	,3	,	filter for PPM-DAC
C	,304,ELLYT	,381S004U7,4u7 1E	,G2	,3	,	AC kobling af left ppm. input
C	,305,TANTAL	,35-C01U--,1u0/>5V	,F2	,3	,	left ppm.
C	,306,ELLYT	,381S001U0,1u0 1E	,F3	,3	,	left ppm. decay filter
C	,307,ELLYT	, ,open	,F2	,3	,	
C	,308,TANTAL	, ,open	,E3	,3	,	
C	,309,ELLYT	, ,open	,F2	,3	,	
C	,310,PLAQ	,31-B022N-,22n	,F3	,3	,	Remote input filter.
C	,401,ELLYT	,394S010M-,10000u 4e	,I2	,4	,	lavprofil
C	,402,MTL	,36-B470N-,470n 2e	,H1	,4	,	HF afkobling af C401
C	,403,PLAQ	,31-A470P-,470p	,H3	,4	,	+5V regulator open loop filter
C	,404,TANTAL	,35-B00U22,0.22u	,E1	,4	,	power fail detect. inp. filter
C	,405,ELLYT	,381S004U7,4u7 1E	,G1	,4	,	power fail detektor
C	,406,ELLYT	,381S022U-,22u/16V 1E	,F1	,4	,	power fail detektor
C	,407,ELLYT	,381S022U-,22u/16V 1E	,F1	,4	,	afkobling af IC14=7705
C	,408,ELLYT	,284577220,2200u/35V 4E	,I4	,4	,	lade til +15 - lavprofil
C	,409,ELLYT	,284577220,2200u/35V 4E	,I4	,4	,	lade til -15 - lavprofil
C	,410,ELLYT	,381S100-U,100u/35V 1E	,H5	,4	,	+15V regulator afkobling
C	,411,TANTAL	,35-C01U--,1u0 35V 1E	,H5	,4	,	+15V regulator afkobling
C	,412,ELLYT	,381S010U-,10u/35V 1E	,H4	,4	,	+15 V regulator
C	,413,PLAQ	,31-A150P-,150p	,H4	,4	,	-15 V reg. open loop filter
C	,414,ELLYT	,381S100-U,100u/35V 1E	,H5	,4	,	-15V regulator afkobling
C	,415,TANTAL	,35-C01U--,1u0 35V 1E	,H5	,4	,	-15V regulator afkobling
C	,416,ELLYT	,381S022U-,22u/16V 1E	,G4	,4	,	+15V afkobling
C	,417,ELLYT	,381S022U-,22u/16V 1E	,G4	,4	,	-15V afkobling
C	,418,ELLYT	,381S022U-,22u/16V 1E	,F4	,4	,	+15V afkobling
C	,419,ELLYT	,381S022U-,22u/16V 1E	,F4	,4	,	-15V afkobling
C	,420,ELLYT	,381S022U-,22u/16V 1E	,D3	,4	,	+15V afkobling
C	,421,ELLYT	,381S022U-,22u/16V 1E	,D4	,4	,	-15V afkobling
C	,422,ELLYT	,381S022U-,22u/16V 1E	,A4	,4	,	+15V afkobling
C	,423,ELLYT	,381S022U-,22u/16V 1E	,A4	,4	,	-15V afkobling
C	,424,ELLYT	,381S022U-,22u/16V 1E	,B3	,4	,	+15VA afkobling
C	,425,ELLYT	,381S022U-,22u/16V 1E	,B3	,4	,	-15VA afkobling
C	,426,PLAQ	,31-B022N-,22n	,H4	,4	,	+5V reference filter
C	,427,MTL	,36-B470N-,470n MTL	,F1	,4	,	collector af Q3 ?
C	,429,MTL	,36-B470N-,470n MTL	,B1	,4	,	afkobling af +5V

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C  ,430,MTL     ,36-B470N-,470n MTL      ,D1 ,4  , Batteri backup filter
C  ,431,ELLYT   ,381S100-U,100u/35V 1E   ,B1 ,4  , +5V afkobling
C  ,501,ELLYT   ,381S022U-,22u 1E        ,A1 ,?  , AC kobling af tap 2 out.
C  ,502,MTL     ,36-B470N-,470n MTL      ,B1 ,5  , Afkobling af IC501.
C  ,503,ELLYT   ,381S022U-,22u 1E        ,C2 ,?  , AC kobling af tap 3 out.
C  ,504,ELLYT   ,381S022U-,22u 1E        ,D1 ,5  , AC kobling af tap 1 out.
C  ,505,PLAQ    ,31-B022N-,22n           ,D2 ,5  , HF afkortning af stelvej.

IC ,101,LINEAR ,72-NE5532,5532          ,A4 ,1  , left input amp.
IC ,102,LINEAR ,72-NE5532,5532          ,B2 ,1  , left inp. gain and preemphase.
IC ,103,LINEAR ,          ,open         ,B3 ,1  ,
IC ,104,LINEAR ,          ,open         ,C3 ,1  ,
IC ,201,LINEAR ,72-TL-074,TL074         ,D2 ,2  , output deemphase & mono summer
IC ,202,LINEAR ,72-NE5532,5532          ,D4 ,2  , tap 1 output diff. driver.
IC ,203,LINEAR ,72-NE5532,5532          ,F3 ,2  , tap 2 output diff. driver.
IC ,204,LINEAR ,72-NE5532,5532          ,G4 ,2  , tap 3 output diff. driver
IC ,301,LINEAR ,          ,open         ,E2 ,3  ,
IC ,302,LINEAR ,72-LM-339,LM339         ,G2 ,3  , 1. ppm & lock inp. & MIDI inp.
IC ,303,OPTOKOB,9-OPTO136,6N136         ,G4 ,3  , MIDI input opto coupler
IC ,401,LINEAR ,72-RC4741,4741          ,H4 ,4  , aendret fra LM324 til 4741
IC ,402,LINEAR ,71-7805--,LM7805        ,I5 ,4  , +15V regulator
IC ,403,LINEAR ,71-7905--,LM7905        ,I5 ,4  , -15V regulator
IC ,404,SPECIAL,71-TL7705,7705          ,F1 ,4  , Power fail detector
IC ,501,TTL LS ,67-LS157-,74LS157       ,B1 ,5  , Conv. opstart switch. LS type

ICJ,401,SOKKEL ,C-ICSOK14,14 PIN        ,H4 ,   ,
ICJ,404,SOKKEL ,C-ICSOK08,8 PIN         ,F1 ,   ,

D  ,101,DIODE  ,4D-1N4148,1N4148        ,A4 ,1  , left input protect
D  ,102,DIODE  ,4D-1N4148,1N4148        ,B4 ,1  , left input protect
D  ,103,DIODE  ,4D-1N4148,1N4148        ,A4 ,1  , left input protect
D  ,104,DIODE  ,4D-1N4148,1N4148        ,B4 ,1  , left input protect
D  ,121,DIODE  ,          ,open         ,A3 ,1  ,
D  ,122,DIODE  ,          ,open         ,B3 ,1  ,
D  ,123,DIODE  ,4D-1N4148,open          ,A3 ,1  ,
D  ,124,DIODE  ,          ,open         ,B3 ,1  ,
D  ,141,DIODE  ,          ,open         ,B4 ,1  ,
D  ,201,DIODE  ,4D-1N4148,1N4148        ,D4 ,2  , tap output protect
D  ,202,DIODE  ,4D-1N4148,1N4148        ,C4 ,2  , tap output protect
D  ,203,DIODE  ,4D-1N4148,1N4148        ,C4 ,2  , tap output protect
D  ,204,DIODE  ,4D-1N4148,1N4148        ,D4 ,2  , tap output protect
D  ,221,DIODE  ,4D-1N4148,1N4148        ,F3 ,2  , left output protect
D  ,222,DIODE  ,4D-1N4148,1N4148        ,E4 ,2  , left output protect
D  ,223,DIODE  ,4D-1N4148,1N4148        ,E4 ,2  , left output protect
D  ,224,DIODE  ,4D-1N4148,1N4148        ,F4 ,2  , left output protect
D  ,241,DIODE  ,4D-1N4148,1N4148        ,G3 ,2  , right output protect
D  ,242,DIODE  ,4D-1N4148,1N4148        ,G4 ,2  , right output protect
D  ,243,DIODE  ,4D-1N4148,1N4148        ,G4 ,2  , right output protect
D  ,244,DIODE  ,4D-1N4148,1N4148        ,G4 ,2  , right output protect
D  ,261,DIODE  ,4D-1N4148,1N4148        ,C4 ,2  , Bypass relay spike supression
D  ,262,DIODE  ,4D-1N4148,1N4148        ,D4 ,2  , Bypass relay spike supression
D  ,301,DIODE  ,4D-1N4148,1N4148        ,F3 ,3  , Hindre neg. +15 ved power off
D  ,401,BROKOBL,4B-KBU4A-,KBU 4A 63V    ,I2 ,4  , broensretter
D  ,402,DIODE  ,4D-1N4001,1N4001        ,I4 ,4  , +/- 15 V ensretter
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D  ,403,DIODE  ,4D-1N4001,1N4001        ,I4 ,4  , +/- 15 V ensretter
D  ,404,DIODE  ,4D-1N4001,1N4001        ,I4 ,4  , +/- 15 V ensretter
D  ,405,DIODE  ,4D-1N4001,1N4001        ,I4 ,4  , +/- 15 V ensretter
D  ,406,DIODE  ,4D-1N4148,1N4148        ,F1 ,4  , power fail detect.
D  ,407,DIODE  ,4D-1N4148,1N4148        ,H4 ,4  , -15V regulator, reverse ?
D  ,408,DIODE  ,4D-1N4148,1N4148        ,H4 ,4  , batteri switch in

ZD ,401,ZENER  ,4A-ICTE15,15V Absorber  ,G5 ,4  , Transient absorber
ZD ,402,ZENER  ,4A-ICTE15,15V Absorber  ,G4 ,4  , Transient absorber

Q  ,101,TRANS  ,         ,open          ,F4 ,1  ,
Q  ,201,TRANS  ,5-BC547B-,BC548B        ,C4 ,2  , bypass relay driver
Q  ,202,TRANS  ,5-BC557B-,BC558B        ,C4 ,2  , bypass relay driver
Q  ,301,TRANS  ,5-BC557B-,BC558B        ,F5 ,3  , MIDI output
Q  ,401,TRANS  ,5-BC547B-,BC548B        ,H1 ,4  , +5V current limiter
Q  ,402,TRANS  ,5-MTP3055,MTP3055A      ,I1 ,4  , +5V regulator. + isolator.
Q  ,403,TRANS  ,5-BC547B-,BC548B        ,F1 ,4  , batteri backup switch

L  ,301,SPOLE  ,A-SPO-100,100uH         ,E1 ,3  , +5REF filter, se 5/5-89
L  ,401,SPOLE  ,A-SPO--22,22uH          ,D1 ,4  , CPU batteri backup filter

BT ,401,LITCELL,BAT-LIT-1,3V/170mA      ,I3 ,   , som i 2290
    Paa PC2201-4 er udlaeg beregnet for et nyt og stoerre batteri, der ifoelge
    CMH. har type no. 3754 med en kapasitet paa 500 mA timer.Dette er nødven-
    digt pga. stoerre forbrug end i 2290, hvorved levetiden foroeges fra 3 til
    10 aar. Se Panasonic data blade. Ifoelge datablad notat er det type CR2354
    -1VC, der skal bruges.

F  ,401,SIKRING,D-1000MAT,1A T          ,I2 ,4  , fuse for +5V regulator
F  ,402,SIKRING,D-0400MAT,400mA T       ,I3 ,4  , fuse for dual 15V
F  ,403,SIKRING,D-0400MAT,400mA T       ,I3 ,4  , fuse for dual 15V

FJ ,401,SIKHOLD,D-SIKH-1-,5*20 FUSE BOX,I2 ,   ,
FJ ,402,SIKHOLD,D-SIKH-1-,5*20 FUSE BOX,I3 ,   ,
FJ ,403,SIKHOLD,D-SIKH-1-,5*20 FUSE BOX,I3 ,   ,

J  ,401,SILPIN ,C-POWER-5,5 POL POWER   ,I3 ,4  , connector from transformator
J  ,501,PIN-DR ,CHD12-26P,26 POL DR     ,C2 ,5  , connector to potmetre pw.
J  ,502,PIN-DR ,CHD12-26P,26 POL DR     ,C1 ,5  , connector to digital pw..
J  ,503,SILPIN ,CHS28-15P,15 POL PIN    ,A3 ,5  , connector to converter
J  ,504,SILPIN ,CHS28-15P,15 POL PIN    ,D3 ,5  , connector to DUAL converter

T  ,101,XLR    ,C-XLR-04F,3POL HUN-PC   ,A5 ,1  , tap input
T  ,102,XLR    ,         ,open          ,  ,  ,
T  ,201,XLR    ,C-XLR-03M,3POL HAN-PC   ,C5 ,2  , tap1 output
T  ,202,XLR    ,C-XLR-03M,3POL HAN-PC   ,D5 ,2  , tap2 output
T  ,203,XLR    ,C-XLR-03M,3POL HAN-PC   ,E5 ,2  , tap3 output
T  ,301,STIK   ,C-DIN--2-,5POL DIN-PC   ,G5 ,3  , MIDI output
T  ,302,JACK   ,C-JACK-01,BBB-PCI       ,F5 ,3  , Remote input
T  ,303,STIK   ,C-DIN--2-,5POL DIN-PC   ,G5 ,3  , MIDI input

PCB,  1,PRINT  ,PCB2201-4,1280/1380 M   ,   ,   , MAIN BOARD (analog).

HS ,  1,BESLAG ,MX-R5581-,REGBOEJLE     ,I1 ,   , til +5 volt regulator
HS ,  2,BESLAG ,MX-R5580-,REGBOEJLE     ,I5 ,   , til 15 volt regulator
HS ,  3,KØLPL  ,MX-V5640A,KØLEPL KBU4A  ,I2 ,   , til brokobling D401
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MP ,  1,ISOL   ,L-SKIVE--,TO-220 PAD   ,  ,  ,isolationsskive for regulator
MP ,  2,ISOL   ,L-SKIVE--,TO-220 PAD   ,  ,  ,isolationsskive for regulator
MP ,  3,ISOL   ,L-SKIVE--,TO-220 PAD   ,  ,  ,isolationsskive for regulator
MP ,  4,ISOL   ,L-BØSNING,Ø3 BØSNING   ,  ,  ,isolationsbøsning for regulator
MP ,  5,ISOL   ,L-BØSNING,Ø3 BØSNING   ,  ,  ,isolationsbøsning for regulator
MP ,  6,ISOL   ,L-BØSNING,Ø3 BØSNING   ,  ,  ,isolationsbøsning for regulator
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PARTSLIST 2902-02, 1280/1380 CONVERTER:

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PL-,NO-,TYPE---,TCKODE---,KOMPONENT----,TXT--------------------------------

R  ,101,MODST  ,1A5%820E-,820R   5%   ,
R  ,102,MODST  ,1A5%820E-,820R   5%   ,
R  ,103,MODST  ,1B5%002K2,2K2    5%   ,
R  ,110,MODST  ,1%B033K2-,33K2   1%   ,
R  ,111,MODST  ,1%B068K1-,68K1   1%   ,
R  ,112,MODST  ,1%B068K1-,68K1   1%   ,
R  ,113,MODST  ,1%B681K--,681K   1%   ,
R  ,114,MODST  ,1%B681K--,681K   1%   ,
R  ,115,MODST  ,1%B010K0-,10K0   1%   ,
R  ,116,MODST  ,1%B010K0-,10K0   1%   ,
R  ,117,MODST  ,1%B010K0-,10K0   1%   ,
R  ,120,MODST  ,1%B014K0-,14K0   1%   ,

R  ,121,MODST  ,1%B023K7-,23K7   1%   ,
R  ,122,MODST  ,1B5%002K2,2K2    5%   ,
R  ,131,MODST  ,1A5%820E-,820R   5%   ,
R  ,132,MODST  ,1A5%820E-,820R   5%   ,
R  ,133,MODST  ,1B5%002K2,2K2    5%   ,
R  ,140,MODST  ,1%B033K2-,33K2   1%   ,
R  ,141,MODST  ,1%B068K1-,68K1   1%   ,
R  ,142,MODST  ,1%B068K1-,68K1   1%   ,
R  ,143,MODST  ,1%B681K--,681K   1%   ,
R  ,144,MODST  ,1%B681K--,681K   1%   ,
R  ,145,MODST  ,1%B010K0-,10K0   1%   ,
R  ,146,MODST  ,1%B010K0-,10K0   1%   ,
R  ,147,MODST  ,1%B010K0-,10K0   1%   ,
R  ,148,MODST  ,1C5%004M7,4M7    5%   ,
R  ,150,MODST  ,1%B014K0-,14K0   1%   ,
R  ,151,MODST  ,1%B023K7-,23K7   1%   ,
R  ,152,MODST  ,1B5%002K2,2K2    5%   ,

R  ,201,MODST  ,1%B006K81,6K81   1%   ,
R  ,202,MODST  ,1%B004K64,4K64   1%   ,
R  ,203,MODST  ,1%B006K81,6K81   1%   ,
R  ,204,MODST  ,1%B004K64,4K64   1%   ,
R  ,205,MODST  ,19-LUS-00,0E          ,
R  ,206,MODST  ,        ,not used    ,
R  ,207,MODST  ,1%B015K0-,15K0   1%   ,
R  ,208,MODST  ,1%B015K0-,15K0   1%   ,
R  ,210,MODST  ,1%B010K0-,10K0   1%   ,

R  ,211,MODST  ,1%B010K0-,10K0   1%   ,
R  ,212,MODST  ,1%B031K6-,31K6   1%   ,
R  ,213,MODST  ,1%B010K0-,10K0   1%   ,
R  ,215,MODST  ,1%B012K1-,12K1   1%   ,
R  ,216,MODST  ,1B5%003K3,3K3    5%   ,
R  ,218,MODST  ,1B5%006K8,6K8    5%   ,
R  ,219,MODST  ,1B5%003K9,3K9    5%   ,
R  ,225,MODST  ,1%B001K00,1K0    1%   ,
R  ,226,MODST  ,1%B051K1-,51K1   1%   ,
R  ,227,MODST  ,1%B110K--,110K   1%   ,
R  ,230,MODST  ,1%B003K83,3K83   1%   ,

R  ,231,MODST  ,        ,not used    ,
R  ,232,MODST  ,1B5%002K2,2K2    5%   ,
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R  ,233,MODST  ,1B5%002K7,2K7    5%  ,
R  ,234,MODST  ,1C5%004M7,4M7    5%  ,
R  ,236,MODST  ,1%B004K64,4K64   1%  ,
R  ,237,MODST  ,1%B006K81,6K81   1%  ,
R  ,240,MODST  ,1%B001K00,1K00   1%  ,
R  ,241,MODST  ,1A5%010E-,10R    5%  ,
R  ,242,MODST  ,1%A001E54,1E54   1%  ,

R  ,254,MODST  ,1A5%100E-,100R   5%  ,
R  ,255,MODST  ,1A5%100E-,100R   5%  ,
R  ,257,MODST  ,1B5%003K9,3K9    5%  ,
R  ,258,MODST  ,1B5%002K7,2K7    5%  ,
R  ,259,MODST  ,1B5%013K-,13K    5%  ,
R  ,260,MODST  ,1%B003K16,3K16   1%  ,
R  ,261,MODST  ,1A5%068E-,68R    5%  ,
R  ,262,MODST  ,1%B003K16,3K16   1%  ,
R  ,263,MODST  ,1A5%100E-,100R   5%  ,
R  ,264,MODST  ,1%B002K15,2K15   1%  ,
R  ,265,MODST  ,1%B005K62,5K62   1%  ,
R  ,266,MODST  ,1%B001K00,1K00   1%  ,
R  ,267,MODST  ,1%B001K00,1K00   1%  ,

R  ,276,MODST  ,1%B010K0-,10K0   1%  ,
R  ,277,MODST  ,1C5%001M8,470K   5%  ,
R  ,278,MODST  ,1%B010K0-,10K0   1%  ,
R  ,279,MODST  ,1B5%008K2,8K2    5%  ,
R  ,280,MODST  ,1B5%001K0,1K0    5%  ,
R  ,281,MODST  ,1B5%010K-,10K    5%  ,
R  ,282,MODST  ,1B5%001K0,1K0    5%  ,
R  ,283,MODST  ,1B5%001K0,1K0    5%  ,
R  ,284,MODST  ,1A5%100E-,100R   5%  ,
R  ,285,MODST  ,1B5%022K-,22K    5%  ,
R  ,286,MODST  ,1B5%006K8,6K8    5%  ,

R  ,290,MODST  ,1A5%010E-,10R    5%  ,
R  ,291,MODST  ,1A5%010E-,10R    5%  ,
R  ,292,MODST  ,1A5%010E-,10R    5%  ,
R  ,293,MODST  ,1A5%010E-,10R    5%  ,

R  ,306,MODST  ,1%B017K8-,17K8   1%  ,
R  ,307,MODST  ,1%B017K8-,17K8   1%  ,
R  ,308,MODST  ,1%B012K1-,12K1   1%  ,
R  ,310,MODST  ,1%B010K0-,10K0   1%  ,
R  ,311,MODST  ,1%B010K0-,10K0   1%  ,
R  ,312,MODST  ,1%B031K6-,31K6   1%  ,
R  ,313,MODST  ,1%B010K0-,10K0   1%  ,
R  ,314,MODST  ,1B5%100K-,100K   5%  ,
R  ,315,MODST  ,1%B012K1-,12K1   1%  ,
R  ,316,MODST  ,1B5%003K3,3K3    5%  ,
R  ,318,MODST  ,1B5%010K-,10K    5%  ,
R  ,319,MODST  ,1B5%003K9,3K9    5%  ,

R  ,322,MODST  ,1A5%047E-,47R    5%  ,
R  ,323,MODST  ,1B5%470K-,470K   5%  ,
R  ,325,MODST  ,1B5%001K0,1K0    5%  ,
R  ,326,MODST  ,1B5%047K-,47K    5%  ,
R  ,327,MODST  ,1B5%100K-,100K   5%  ,
R  ,330,MODST  ,1%B003K83,3K83   1%  ,
R  ,331,MODST  ,        ,not used    ,
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R  ,332,MODST  ,1B5%002K2,2K2    5%   ,
R  ,333,MODST  ,1B5%002K7,2K7    5%   ,
R  ,334,MODST  ,1C5%004M7,4M7   10%   ,
R  ,336,MODST  ,1%B004K64,4K64   1%   ,
R  ,337,MODST  ,1%B006K81,6K81   1%   ,
R  ,338,MODST  ,1B5%068K-,68K    5%   ,

R  ,341,MODST  ,1A5%010E-,10R    5%   ,
R  ,342,MODST  ,1%A001E87,1E87   1%   ,
R  ,354,MODST  ,1A5%100E-,100R   5%   ,
R  ,355,MODST  ,1A5%100E-,100R   5%   ,
R  ,357,MODST  ,1B5%003K9,3K9    5%   ,
R  ,358,MODST  ,1B5%002K7,2K7    5%   ,
R  ,359,MODST  ,1B5%013K-,13K    5%   ,
R  ,360,MODST  ,1%B003K16,3K16   1%   ,

R  ,362,MODST  ,1%B003K16,3K16   1%   ,
R  ,363,MODST  ,1A5%100E-,100R   5%   ,
R  ,364,MODST  ,1%B002K15,2K15   1%   ,
R  ,365,MODST  ,1%B005K62,5K62   1%   ,
R  ,366,MODST  ,1%B001K05,1K05   1%   ,
R  ,367,MODST  ,1%B001K05,1K05   1%   ,
R  ,368,MODST  ,1B5%015K-,15K    5%   ,
R  ,369,MODST  ,1B5%015K-,15K    5%   ,
R  ,370,MODST  ,1%B001K00,1K00   1%   ,

RT ,  1,TRIMMER,2HLB047K-,47K         ,
RT ,  2,TRIMMER,2HLB047K-,47K         ,
RT ,  3,TRIMMER,2HLB047K-,47K         ,
RT ,  4,TRIMMER,2HLB047K-,47K         ,
RT ,  5,TRIMMER,2HLA220E-,220R        ,
RT ,  6,TRIMMER,2HLB220K-,220K        ,
RT ,  7,TRIMMER,2HLB022K-,22K         ,
RT ,  8,TRIMMER,2HLB047K-,47K         ,
RT ,  9,TRIMMER,2HLB010K-,10K         ,
RT , 10,TRIMMER,2HLB022K-,22K         ,
RT , 11,TRIMMER,2HLB047K-,47K         ,

C  ,101,STYRO  ,32-B010N-,10N    1%   ,2E & 7E
C  ,102,STYRO  ,32-B033N-,33N    1%   ,2E & 7E
C  ,103,STYRO  ,32-B010N-,10N    1%   ,2E & 7E
C  ,104,STYRO  ,32-B033N-,33N    1%   ,2E & 7E
C  ,190,ELLYT  ,381S010U-,10U         ,1E
C  ,191,PLAQ   ,31-B022N-,22N         ,2E
C  ,192,ELLYT  ,381S010U-,10U         ,1E
C  ,193,ELLYT  ,381S010U-,10U         ,1E

C  ,202,STYRO  ,32-B002N7,2N7    1%   ,2E & 5E
C  ,203,PLAQ   ,31-A056P-,56P          ,2E
C  ,205,STYRO  ,32-B002N2,2N2    1%   ,2E & 5E
C  ,206,PLAQ   ,31-A470P-,470P        ,2E
C  ,207,PLAQ   ,31-A068P-,68P         ,2E
C  ,208,STYRO  ,32-B002N7,2N7    1%   ,2E & 5E
C  ,209,STYRO  ,32-B002N7,2N7    1%   ,2E & 5E
C  ,210,PLAQ   ,31-B001N-,1N0         ,2E
C  ,211,PLAQ   ,31-A330P-,330P        ,2E
C  ,212,PLAQ   ,31-B022N-,22N         ,2E
C  ,220,ELLYT  ,381S010U-,10U         ,1E
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C  ,221,ELLYT  ,381S010U-,10U          ,1E
C  ,222,PLAQ   ,31-B022N-,22N          ,2E
C  ,230,STYRQ  ,32-B010N-,10N    1%    ,2E & 7E
C  ,231,STYRQ  ,32-B010N-,10N    1%    ,2E & 7E
C  ,232,STYRQ  ,32-B010N-,10N    1%    ,2E & 7E
C  ,240,PLAQ   ,31-A330P-,330P          ,2E
C  ,250,PLAQ   ,31-B022N-,22N          ,2E
C  ,251,PLAQ   ,31-B001N5,1N5          ,2E loddes på bagside af print

C  ,290,ELLYT  ,381S010U-,10U          ,1E
C  ,291,ELLYT  ,381S010U-,10U          ,1E
C  ,292,ELLYT  ,381S010U-,10U          ,1E
C  ,293,ELLYT  ,381S010U-,10U          ,1E
C  ,294,ELLYT  ,381S010U-,10U          ,1E
C  ,295,ELLYT  ,381S010U-,10U          ,1E
C  ,296,TANTAL ,35-C01U--,1U           ,1E
C  ,297,TANTAL ,35-C01U--,1U           ,1E
C  ,298,PLAQ   ,31-A003P3,3P3          ,* 2E
C  ,299,ELLYT  ,381S010U-,10uF         ,1E

C  ,302,STYRQ  ,32-B001N5,1N5    1%    ,2E & 5E;
C  ,303,STYRQ  ,32-A470P-,470P   1%    ,2E & 5E;
C  ,305,STYRQ  ,32-B002N2,2N2    1%    ,2E & 5E;
C  ,306,PLAQ   ,31-A150P-,150P          ,2E     ;
C  ,307,PLAQ   ,31-A015P-,15P           ,2E     ;
C  ,308,PLAQ   ,31-A220P-,220P          ,2E     ;
C  ,310,PLAQ   ,31-B001N-,1N0           ,2E     ;
C  ,311,PLAQ   ,31-A330P-,330P          ,2E     ;
C  ,312,PLAQ   ,31-B022N-,22N           ,2E     ;

C  ,320,ELLYT  ,381S010U-,10U          ,1E     ;
C  ,321,ELLYT  ,381S010U-,10U          ,1E     ;
C  ,322,PLAQ   ,31-B022N-,22N          ,2E     ;
C  ,330,STYRQ  ,32-B010N-,10N    1%    ,2E & 7E;
C  ,331,STYRQ  ,32-B010N-,10N    1%    ,2E & 7E;
C  ,332,STYRQ  ,32-B010N-,10N    1%    ,2E & 7E;
C  ,390,ELLYT  ,381S010U-,10U          ,1E     ;
C  ,391,ELLYT  ,381S010U-,10U          ,1E     ;

Q  ,100,TRANS  ,5-BC547B-,BC548B  NPN ,
Q  ,101,TRANS  ,5-BC547B-,BC548B  NPN ,
Q  ,200,TRANS  ,5-BC557B-,BC558B  PNP ,
Q  ,201,TRANS  ,5-BF240--,BF240   NPN ,
Q  ,202,TRANS  ,5-BF240--,BF240   NPN ,
Q  ,203,TRANS  ,5-BC547B-,BC548B  NPN ,
Q  ,204,TRANS  ,5-BC547B-,BC548B  NPN ,
Q  ,205,TRANS  ,5-BC547B-,BC548B  NPN ,
Q  ,206,TRANS  ,5-BC557B-,BC558B  PNP ,
Q  ,207,TRANS  ,5-BC557B-,BC558B  PNP ,

Q  ,300,TRANS  ,5-BC557B-,BC558B  PNP ,
Q  ,301,TRANS  ,5-BF240--,BF240   NPN ,
Q  ,302,TRANS  ,5-BF240--,BF240   NPN ,
Q  ,303,TRANS  ,5-BC547B-,BC548B  NPN ,
Q  ,304,TRANS  ,5-BC547B-,BC548B  NPN ,
Q  ,305,TRANS  ,5-BC547B-,BC548B  NPN ,
Q  ,306,TRANS  ,5-BC557B-,BC558B  PNP ,
Q  ,307,TRANS  ,5-BC557B-,BC558B  PNP ,
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D  ,101,DIODE  ,4D-1N4148,1N4148      ;
D  ,102,DIODE  ,4D-1N4148,1N4148      ;
D  ,103,DIODE  ,4D-1N4148,1N4148      ;
D  ,104,DIODE  ,4D-1N4148,1N4148      ;
D  ,105,DIODE  ,4D-1N4148,1N4148      ;
D  ,106,DIODE  ,4D-1N4148,1N4148      ;
D  ,201,DIODE  ,4D-1N4148,1N4148      ;
D  ,202,DIODE  ,4D-1N4148,1N4148      ;
D  ,203,DIODE  ,4D-1N4148,1N4148      ;
D  ,204,DIODE  ,4D-1N4148,1N4148      ;
D  ,300,DIODE  ,4D-1N4148,1N4148      ;

ZD ,  1,ZENER  ,4Z-C010V-,10V         ;
ZD ,  2,ZENER  ,4Z-C003V3,3V3         ;

IC ,  1,HCT    ,65-HCT195,HCT195      ;
IC ,  2,LS     ,67-LS175-,74LS175     ;
IC ,  3,LS     ,66-LS86--,74LS86      ;
IC ,  4,HCT    ,65-HCT195,HCT195      ;
IC ,  5,LINEAR ,72-TL-074,TL074              ;
IC ,  6,LINEAR ,72-RC4741,4741 or 4156
IC ,  7,LINEAR ,72-TL-074,TL074              ;
IC ,  8,SPECIAL,7-ULN2083,ULN2083A    ;
IC ,  9,LINEAR ,72-NE5532,5532        ;
IC , 10,LINEAR ,72-NE5532,5532        ;
IC , 11,LINEAR ,72-LM-710,710         , 14 pin package
IC , 12,LINEAR ,72-TL-074,TL074              ;
IC , 13,SPECIAL,7-DBX2150,DBX2150A    , 8 pin SIL package
IC , 14,LINEAR ,72-NE5532,5532        ;
IC , 15,LINEAR ,72-TL-074,TL074              ;
IC , 16,SPECIAL,7-DBX2150,DBX2150A    , 8 pin SIL package

ICJ,  1,SOCKET ,C-ICSOK14

J  ,  1,SIL    ,CFT-15POL,            , 15 pol SIL stik hun top entry

PCB,  3,PRINT  ,PCB2902-2,TC-2902 PW  ;

MP ,  1,STAG   ,K-STØTTE4,22MM STAG   ;
MP ,  2,STAG   ,K-STØTTE4,22MM STAG   ;
MP ,  3,STAG   ,K-STØTTE4,22MM STAG   ;
MP ,  4,STAG   ,K-STØTTE4,22MM STAG   ;


MP ,  5,SKIVE  ,I-PERT-10,3MM ISOSKIVE,
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PARTSLIST PC2212-1 1380 DUAL CONVERTER:

PL,NO-,TYPE---,TCKODE---,KOMPONENT----,TXT----------

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C  ,  1,PLAQ   ,31-B001N5,1N5          ,2E       CAP
C  ,  2,PLAQ   ,31-B022N-,22N          ,2E       CAP
C  ,  3,ELLYT  ,381S010U-,10U          ,1E       LYT
C  ,  4,PLAQ   ,31-B022N-,22N          ,2E       CAP
C  ,  5,ELLYT  ,381S010U-,10U          ,1E       LYT
C  ,  6,ELLYT  ,381S010U-,10U          ,1E       LYT
C  ,101,STYRO  ,32-B010N-,10N   1%      ,2E & 7E CAPØ7M
C  ,102,STYRO  ,32-B033N-,33N   1%      ,2E & 7E CAPØ7M
C  ,103,STYRO  ,32-B010N-,10N   1%      ,2E & 7E CAPØ7M
C  ,104,STYRO  ,32-B033N-,33N   1%      ,2E & 7E CAPØ7M
C  ,202,STYRO  ,32-B001N5,1N5   1%      ,2E & 5E CAP
C  ,203,STYRO  ,32-A470P-,470P  1%      ,2E & 5E CAP
C  ,205,STYRO  ,32-B002N2,2N2   1%      ,2E & 5E CAP
C  ,206,PLAQ   ,31-A150P-,150P          ,2E       CAP
C  ,207,PLAQ   ,31-A015P-,15P           ,2E       CAP
C  ,208,PLAQ   ,31-A220P-,220P          ,2E       CAP
C  ,210,PLAQ   ,31-B001N-,1NO           ,2E       CAP
C  ,211,ELLYT  ,381S010U-,10U          ,1E       LYT
C  ,212,PLAQ   ,31-B022N-,22N          ,2E       CAP
C  ,220,ELLYT  ,381S010U-,10U          ,1E       LYT
C  ,221,ELLYT  ,381S010U-,10U          ,1E       LYT
C  ,222,PLAQ   ,31-B022N-,22N          ,2E       CAP
C  ,230,STYRO  ,32-B010N-,10N   1%      ,2E & 7E CAP
C  ,231,STYRO  ,32-B010N-,10N   1%      ,2E & 7E CAP
C  ,232,STYRO  ,32-B010N-,10N   1%      ,2E & 7E CAP
C  ,290,ELLYT  ,381S010U-,10U          ,1E       LYT
C  ,291,ELLYT  ,381S010U-,10U          ,1E       LYT
C  ,292,PLAQ   ,31-A330P-,330P          ,2E       CAP
C  ,293,ELLYT  ,381S010U-,10U          ,1E       LYT
C  ,302,STYRO  ,32-B001N5,1N5   1%      ,2E & 5E CAP
C  ,303,STYRO  ,32-A470P-,470P  1%      ,2E & 5E CAP
C  ,305,STYRO  ,32-B002N2,2N2   1%      ,2E & 5E CAP
C  ,306,PLAQ   ,31-A150P-,150P          ,2E       CAP
C  ,307,PLAQ   ,31-A015P-,15P           ,2E       CAP
C  ,308,PLAQ   ,31-A220P-,220P          ,2E       CAP
C  ,310,PLAQ   ,31-B001N-,1NO           ,2E       CAP
C  ,311,PLAQ   ,31-A330P-,330P          ,2E       CAP
C  ,312,PLAQ   ,31-B022N-,22N           ,2E       CAP
C  ,320,ELLYT  ,381S010U-,10U          ,1E       LYT
C  ,321,ELLYT  ,381S010U-,10U          ,1E       LYT
C  ,322,PLAQ   ,31-B022N-,22N          ,2E       CAP
C  ,330,STYRO  ,32-B010N-,10N   1%      ,2E & 7E CAP
C  ,331,STYRO  ,32-B010N-,10N   1%      ,2E & 7E CAP
C  ,332,STYRO  ,32-B010N-,10N   1%      ,2E & 7E CAP
C  ,390,ELLYT  ,381S010U-,10U          ,1E       LYT
C  ,391,ELLYT  ,381S010U-,10U          ,1E       LYT

D  ,  1,DIODE  ,4D-1N4148,1N4148       ,
D  ,101,DIODE  ,4D-1N4148,1N4148       ,
D  ,102,DIODE  ,4D-1N4148,1N4148       ,
D  ,103,DIODE  ,4D-1N4148,1N4148       ,
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D  ,104,DIODE   ,4D-1N4148,1N4148        ,
D  ,105,DIODE   ,4D-1N4148,1N4148        ,
D  ,106,DIODE   ,4D-1N4148,1N4148        ,
D  ,200,DIODE   ,4D-1N4148,1N4148        ,
D  ,300,DIODE   ,4D-1N4148,1N4148        ,

IC ,  1,HCT     ,65-HCT195,HCT195        ,
IC ,  2,LS      ,67-LS175-,74LS175       ,
IC ,  3,HCT     ,64-HCT86-,HCT86         ,
IC ,  4,HCT     ,65-HCT195,HCT195        ,
IC ,  5,SPECIAL,7-ULN2083,ULN2083A       ,
IC ,  6,LINEAR ,72-TL-074,TL074          ,
IC ,  7,LINEAR ,31404741 5,4741 GRUP 5   ,
IC ,  8,LINEAR ,72-NE5532,5532           ,
IC ,  9,LINEAR ,72-TL-074,TL074          ,
IC , 10,SPECIAL,7-DBX2150,DBX2150A       ,8 pin SIL package
IC , 11,LINEAR ,72-TL-074,TL074          ,
IC , 12,LINEAR ,72-NE5532,5532           ,
IC , 13,LINEAR ,72-TL-074,TL074          ,
IC , 14,SPECIAL,7-DBX2150,DBX2150A       ,8 pin SIL package

J  ,  1,CON     ,CFT-15POL,              ,

PCB,  1,PRINT   ,PCB2212-1,              ,

Q  ,100,TRANS   ,5-BC547B-,BC548B NPN    ,
Q  ,101,TRANS   ,5-BC547B-,BC548B NPN    ,
Q  ,200,TRANS   ,5-BC557B-,BC558B PNP    ,
Q  ,201,TRANS   ,5-BF240--,BF240  NPN    ,
Q  ,202,TRANS   ,5-BF240--,BF240  NPN    ,
Q  ,203,TRANS   ,5-BC547B-,BC548B NPN    ,
Q  ,204,TRANS   ,5-BC547B-,BC548B NPN    ,
Q  ,205,TRANS   ,5-BC547B-,BC548B NPN    ,
Q  ,206,TRANS   ,5-BC547B-,BC548B NPN    ,
Q  ,207,TRANS   ,5-BC547B-,BC548B NPN    ,
Q  ,300,TRANS   ,5-BC557B-,BC558B PNP    ,
Q  ,301,TRANS   ,5-BF240--,BF240  NPN    ,
Q  ,302,TRANS   ,5-BF240--,BF240  NPN    ,
Q  ,303,TRANS   ,5-BC547B-,BC548B NPN    ,
Q  ,304,TRANS   ,5-BC547B-,BC548B NPN    ,
Q  ,305,TRANS   ,5-BC547B-,BC548B NPN    ,
Q  ,306,TRANS   ,5-BC547B-,BC548B NPN    ,
Q  ,307,TRANS   ,5-BC547B-,BC548B NPN    ,

R  ,  1,MODST   ,1B5%022K-,22K   5%      ,RES
R  ,  2,MODST   ,1B5%006K8,6K8   5%      ,RES
R  ,101,MODST   ,1A5%820E-,820R  5%      ,RES
R  ,102,MODST   ,1A5%820E-,820R  5%      ,RES
R  ,103,MODST   ,1B5%002K2,2K2   5%      ,RES
R  ,110,MODST   ,1%B033K2-,33K2  1%      ,RES
R  ,111,MODST   ,1%B068K1-,68K1  1%      ,RES
R  ,112,MODST   ,1%B068K1-,68K1  1%      ,RES
R  ,113,MODST   ,1%B681K--,681K  1%      ,RES
R  ,114,MODST   ,1%B681K--,681K  1%      ,RES
R  ,115,MODST   ,1%B010K0-,10k0  1%      ,RES
R  ,116,MODST   ,1%B010K0-,10K0  1%      ,RES
R  ,117,MODST   ,1%B010K0-,10K0  1%      ,RES
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R  ,120,MODST  ,1%B014K0-,14K0   1%     ,RES
R  ,121,MODST  ,1%B023K7-,23K7   1%     ,RES
R  ,122,MODST  ,1B5%002K2,2K2    5%     ,RES
R  ,131,MODST  ,1A5%820E-,820R   5%     ,RES
R  ,132,MODST  ,1A5%820E-,820E   5%     ,RES
R  ,133,MODST  ,1B5%002K2,2K2    5%     ,RES
R  ,140,MODST  ,1%B033K2-,33K2   1%     ,RES
R  ,141,MODST  ,1%B068K1-,68K1   1%     ,RES
R  ,142,MODST  ,1%B068K1-,68K1   1%     ,RES
R  ,143,MODST  ,1%B681K--,681K   1%     ,RES
R  ,144,MODST  ,1%B681K--,681K   1%     ,RES
R  ,145,MODST  ,1%B010K0-,10K0   1%     ,RES
R  ,146,MODST  ,1%B010K0-,10K0   1%     ,RES
R  ,147,MODST  ,1%B010K0-,10K0   1%     ,RES
R  ,148,MODST  ,1C5%004M7,4M7    5%     ,RES
R  ,150,MODST  ,1%B014K0-,14K0   1%     ,RES
R  ,151,MODST  ,1%B023K7-,23K7   1%     ,RES
R  ,152,MODST  ,1B5%002K2,2K2    5%     ,RES
R  ,206,MODST  ,1%B017K8-,17K8   1%     ,RES
R  ,207,MODST  ,1%B017K8-,17K8   1%     ,RES
R  ,208,MODST  ,1%B012K1-,12K1   1%     ,RES
R  ,210,MODST  ,1%B010K0-,10K0   1%     ,RES
R  ,211,MODST  ,1%B010K0-,10K0   1%     ,RES
R  ,212,MODST  ,1%B031K6-,31K6   1%     ,RES
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R  ,222,MODST  ,1A5%047E-,47R    5%     ,RES
R  ,223,MODST  ,1B5%470K-,470K   5%     ,RES
R  ,225,MODST  ,1B5%001K0,1K0    5%     ,RES
R  ,226,MODST  ,1B5%047K-,47K    5%     ,RES
R  ,227,MODST  ,1B5%100K-,100K   5%     ,RES
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R  ,236,MODST  ,1%B004K64,4K64   1%     ,RES
R  ,237,MODST  ,1%B006K81,6K81   1%     ,RES
R  ,238,MODST  ,1B5%068K-,68K    5%     ,RES
R  ,241,MODST  ,1A5%010E-,10R    5%     ,RES
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R  ,259,MODST  ,1B5%013K-,13K    5%     ,RES
R  ,260,MODST  ,1%B003K16,3K16   1%     ,RES
R  ,262,MODST  ,1%B003K16,3K16   1%     ,RES
R  ,263,MODST  ,1A5%100E-,100R   5%     ,RES
R  ,264,MODST  ,1%B002K15,2K15   1%     ,RES
R  ,265,MODST  ,1%B005K62,5K62   1%     ,RES
R  ,266,MODST  ,1%B001K05,1K05   1%     ,RES
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R  ,267,MODST  ,1%B001K05,1K05  1%     ,RES
R  ,268,MODST  ,1B5%015K-,15K   5%     ,RES
R  ,269,MODST  ,1B5%015K-,15K   5%     ,RES
R  ,270,MODST  ,1%B001K00,1K00  1%     ,RES
R  ,290,MODST  ,1A5%010E-,10R   5%     ,RES
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R  ,308,MODST  ,1%B012K1-,12K1  1%     ,RES
R  ,310,MODST  ,1%B010K0-,10K0  1%     ,RES
R  ,311,MODST  ,1%B010K0-,10K0  1%     ,RES
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R  ,313,MODST  ,1%B010K0-,10K0  1%     ,RES
R  ,314,MODST  ,1B5%100K-,100K  5%     ,RES
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R  ,325,MODST  ,1B5%001K0,1K0   5%     ,RES
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R  ,330,MODST  ,1%B003K83,3K83  1%     ,RES
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R  ,332,MODST  ,1B5%002K2,2K2   5%     ,RES
R  ,333,MODST  ,1B5%002K7,2K7   5%     ,RES
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R  ,342,MODST  ,1%A001E87,1E87  1%     ,RES
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R  ,357,MODST  ,1B5%003K9,3K9   5%     ,RES
R  ,358,MODST  ,1B5%002K7,2K7   5%     ,RES
R  ,359,MODST  ,1B5%013K-,13K   5%     ,RES
R  ,360,MODST  ,1%B003K16,3K16  1%     ,RES
R  ,362,MODST  ,1%B003K16,3K16  1%     ,RES
R  ,363,MODST  ,1A5%100E-,100R  5%     ,RES
R  ,364,MODST  ,1%B002K15,2K15  1%     ,RES
R  ,365,MODST  ,1%B005K62,5K62  1%     ,RES
R  ,366,MODST  ,1%B001K05,1K05  1%     ,RES
R  ,367,MODST  ,1%B001K05,1K05  1%     ,RES
R  ,368,MODST  ,1B5%015K-,15K   5%     ,RES
R  ,369,MODST  ,1B5%015K-,15K   5%     ,RES
R  ,370,MODST  ,1%B001K00,1K00  1%     ,RES
*
RT ,201,TRIMMER,2HLB047K-,47K          ,
RT ,204,TRIMMER,2HLB047K-,47K          ,
RT ,205,TRIMMER,2HLA220E-,220R         ,
RT ,206,TRIMMER,2HLB220K-,220K         ,
RT ,207,TRIMMER,2HLB022K-,22K          ,
RT ,208,TRIMMER,2HLB047K-,47K          ,
RT ,209,TRIMMER,2HLB010K-,10K          ,
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RT ,211,TRIMMER,2HLB047K-,47K          ,
RT ,301,TRIMMER,2HLB047K-,47K          ,
RT ,304,TRIMMER,2HLB047K-,47K          ,
RT ,305,TRIMMER,2HLA220E-,220R         ,
RT ,306,TRIMMER,2HLB220K-,220K         ,
RT ,307,TRIMMER,2HLB022K-,22K          ,
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PARTSLIST FOR ME80 (PC2261-1)

PL-,NO-,TYPE---,TCKODE---,KOMPONENT----,TXT----

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C2 , ,MTL ,36-B100N-,100nF 2E ,
C3 , ,MTL ,36-B100N-,100nF 2E ,
C4 , ,MTL ,36-B100N-,100nF 2E ,
C5 , ,MTL ,36-B100N-,100nF 2E ,
C6 , ,MTL ,36-B100N-,100nF 2E ,
C7 , ,MTL ,36-B100N-,100nF 2E ,
C8 , ,MTL ,36-B100N-,100nF 2E ,
C9 , ,MTL ,36-B100N-,100nF 2E ,
C10, ,MTL ,36-B100N-,100nF 2E ,
C11, ,MTL ,36-B100N-,100nF 2E ,
C12, ,MTL ,36-B100N-,100nF 2E ,
C13, ,MTL ,36-C001U-,1uF 2E ,
C14, ,MTL ,36-C001U-,1uF 2E ,
C15, ,MTL ,36-C001U-,1uF 2E ,
C16, ,TAN ,35-C01U--,1uF 1E ,

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IC2, ,DYNRAM ,8-DY1024*,256K*4 ,
IC3, ,DYNRAM ,8-DY1024*,256K*4 ,
IC4, ,DYNRAM ,8-DY1024*,256K*4 ,
IC5, ,DYNRAM ,8-DY1024*,256K*4 ,
IC6, ,DYNRAM ,8-DY1024*,256K*4 ,
IC7, ,DYNRAM ,8-DY1024*,256K*4 ,
IC8, ,DYNRAM ,8-DY1024*,256K*4 ,
IC9, ,DYNRAM ,8-DY1024*,256K*4 ,
IC10, ,DYNRAM ,8-DY1024*,256K*4 ,
IC11, ,DYNRAM ,8-DY1024*,256K*4 ,
IC13, ,DYNRAM ,8-DY1024*,256K*4 ,
IC13, ,CMOS ,64-HCT32-, ,
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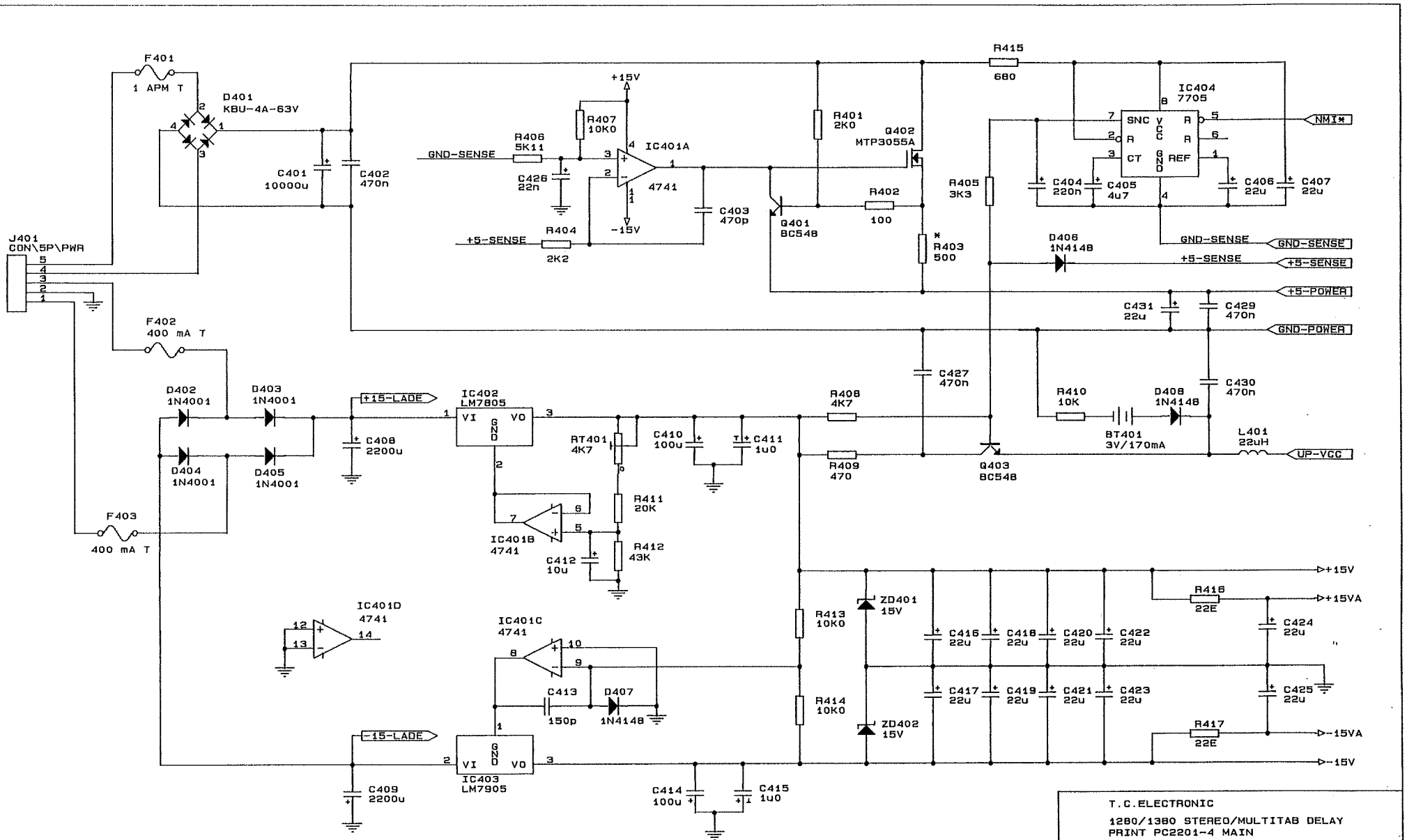

* 403 = PRINTMODSTAND PA CA 500E

T.C.ELECTRONIC

1280/1380 STEREO/MULTITAB DELAY
PRINT PC2201-4 MAIN
SERVICE DIAGRAM

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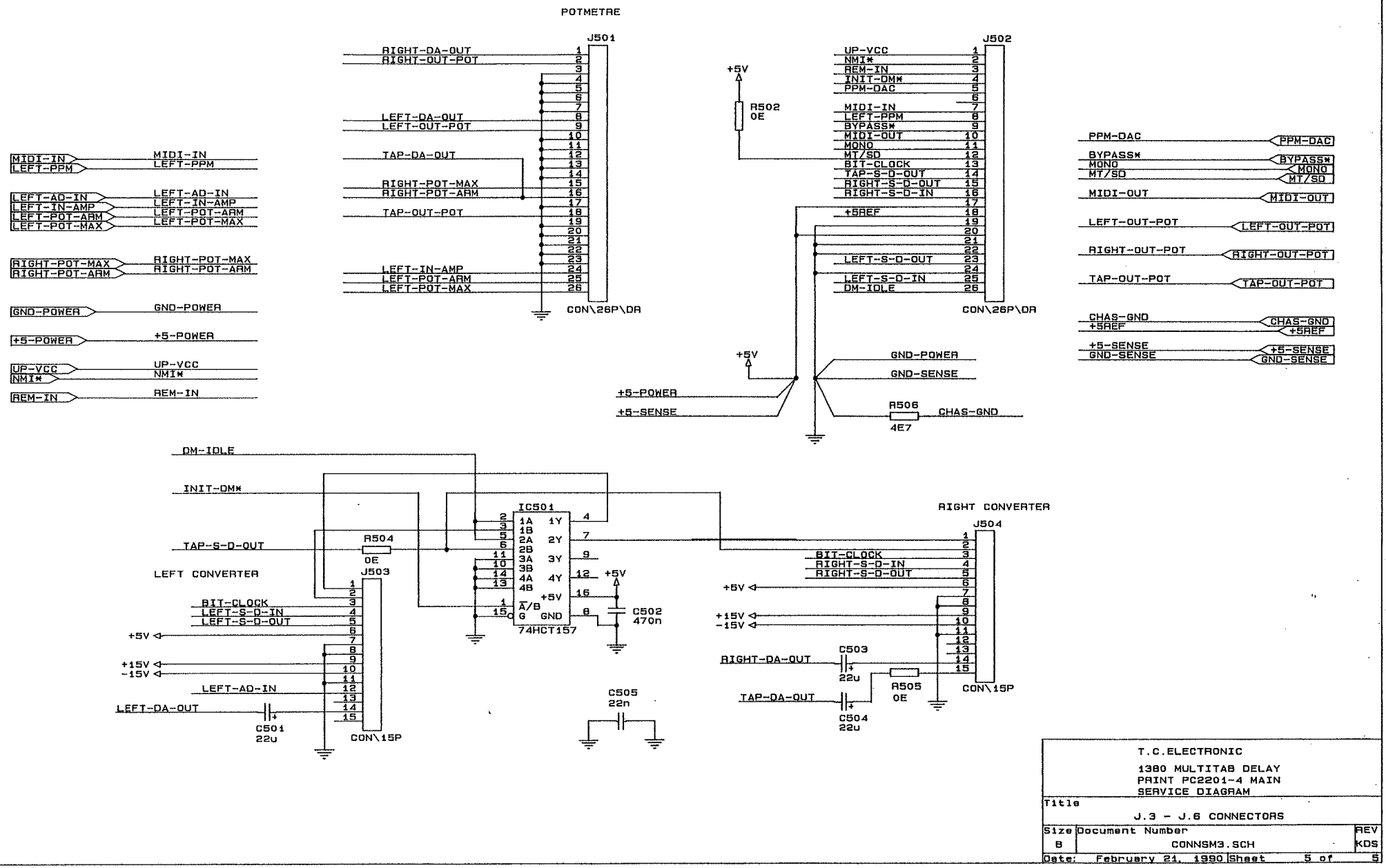
Size B	Document Number POWER83.SCH	REV KOS
Date: February 21, 1990	Sheet 4 of 5	



T.C.ELECTRONIC	
1380 MULTITAB DELAY PRINT PC2201-4 MAIN SERVICE DIAGRAM	
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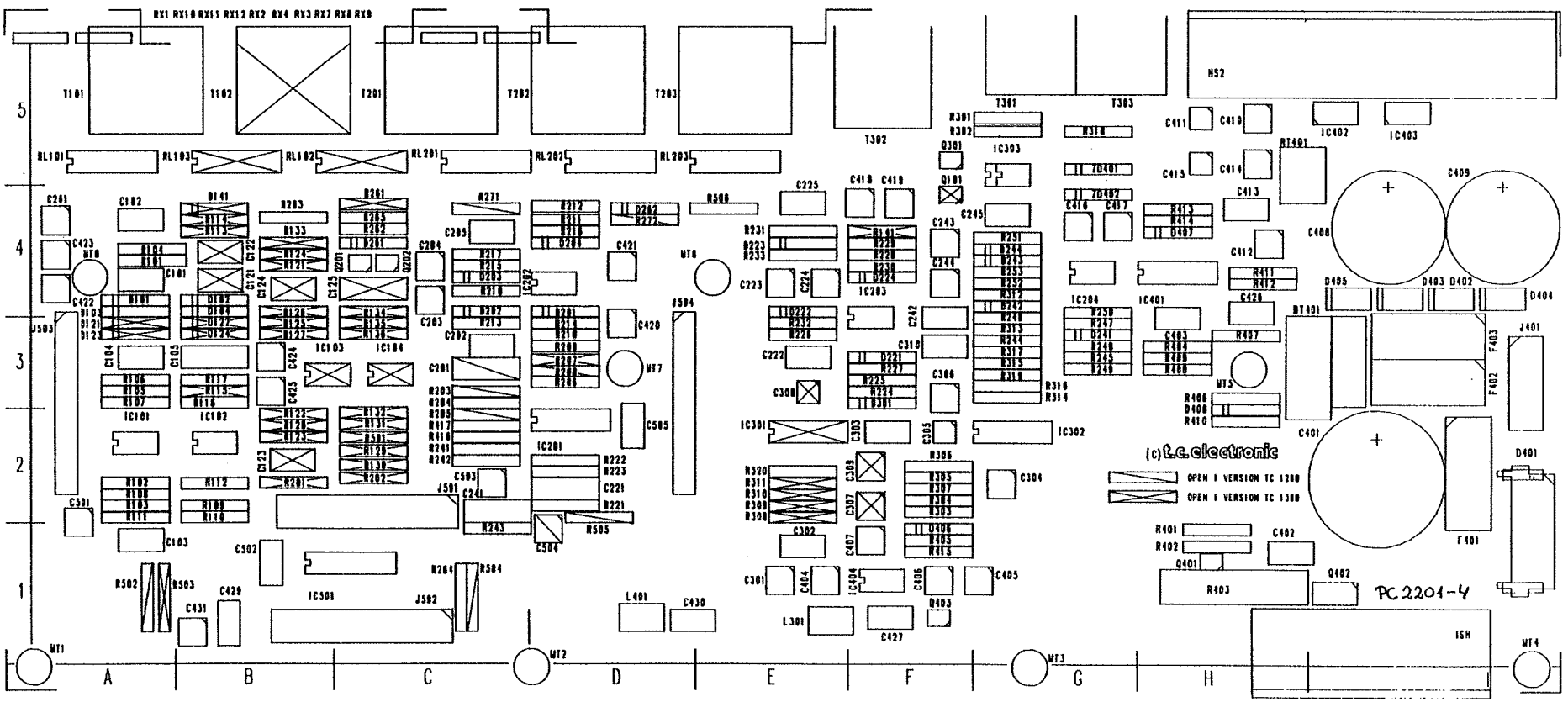
Size: B	Document Number: CONNSM3.SCH — REV: KDS
Date: February 21, 1990	Sheet 5 of 5


(c)t.c.electronic
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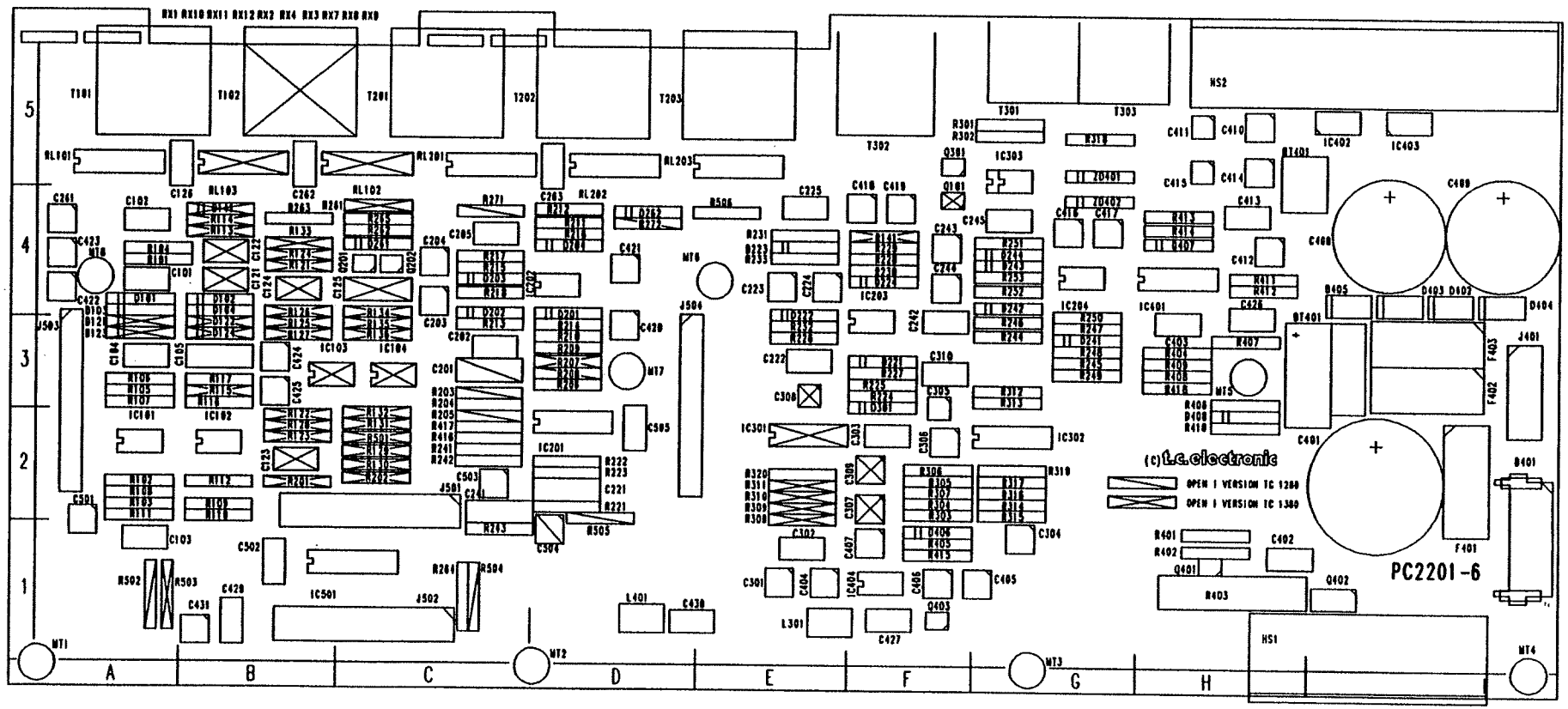
OPEN I VERSION TC 1300
PC 2201-4



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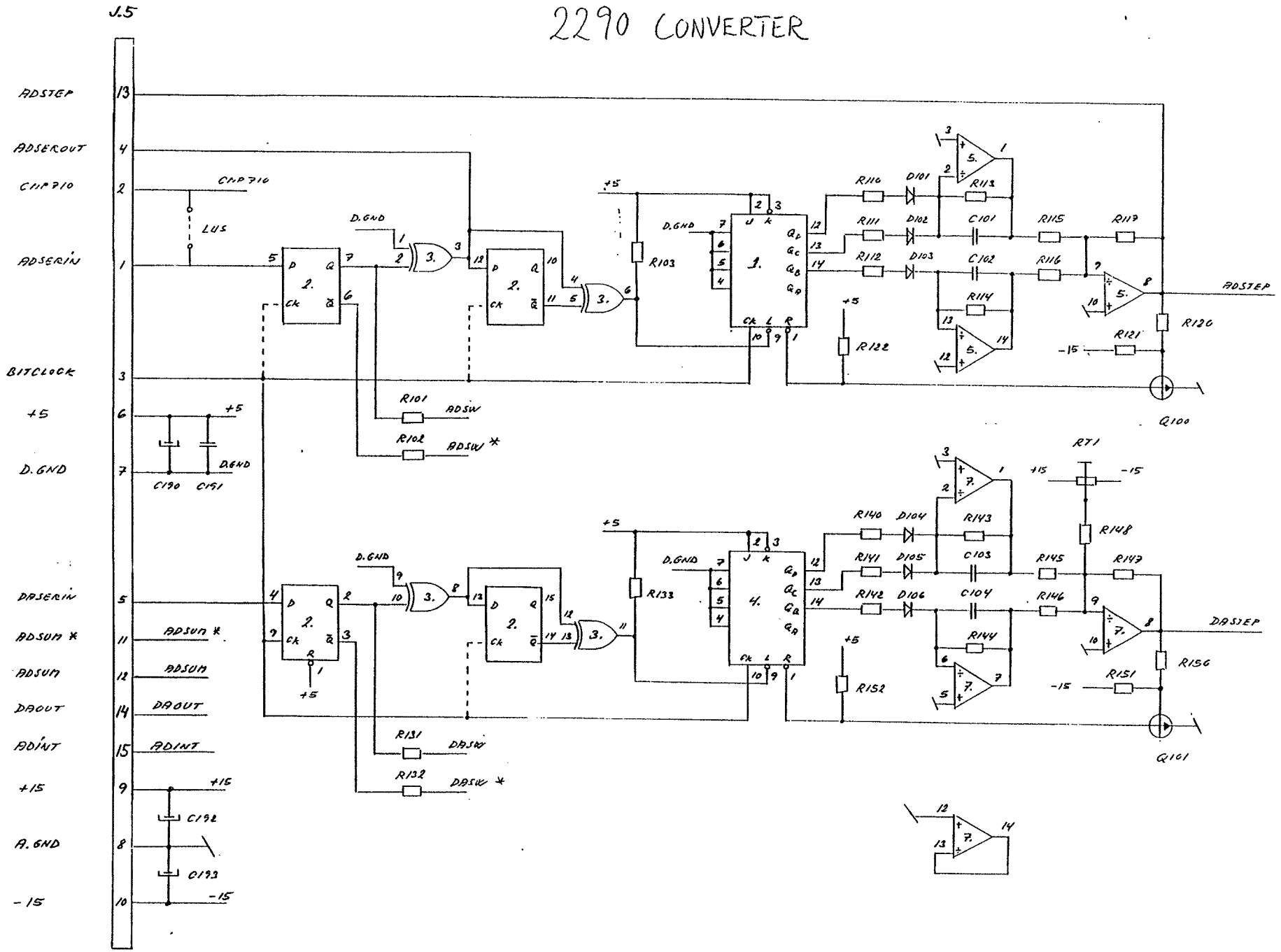
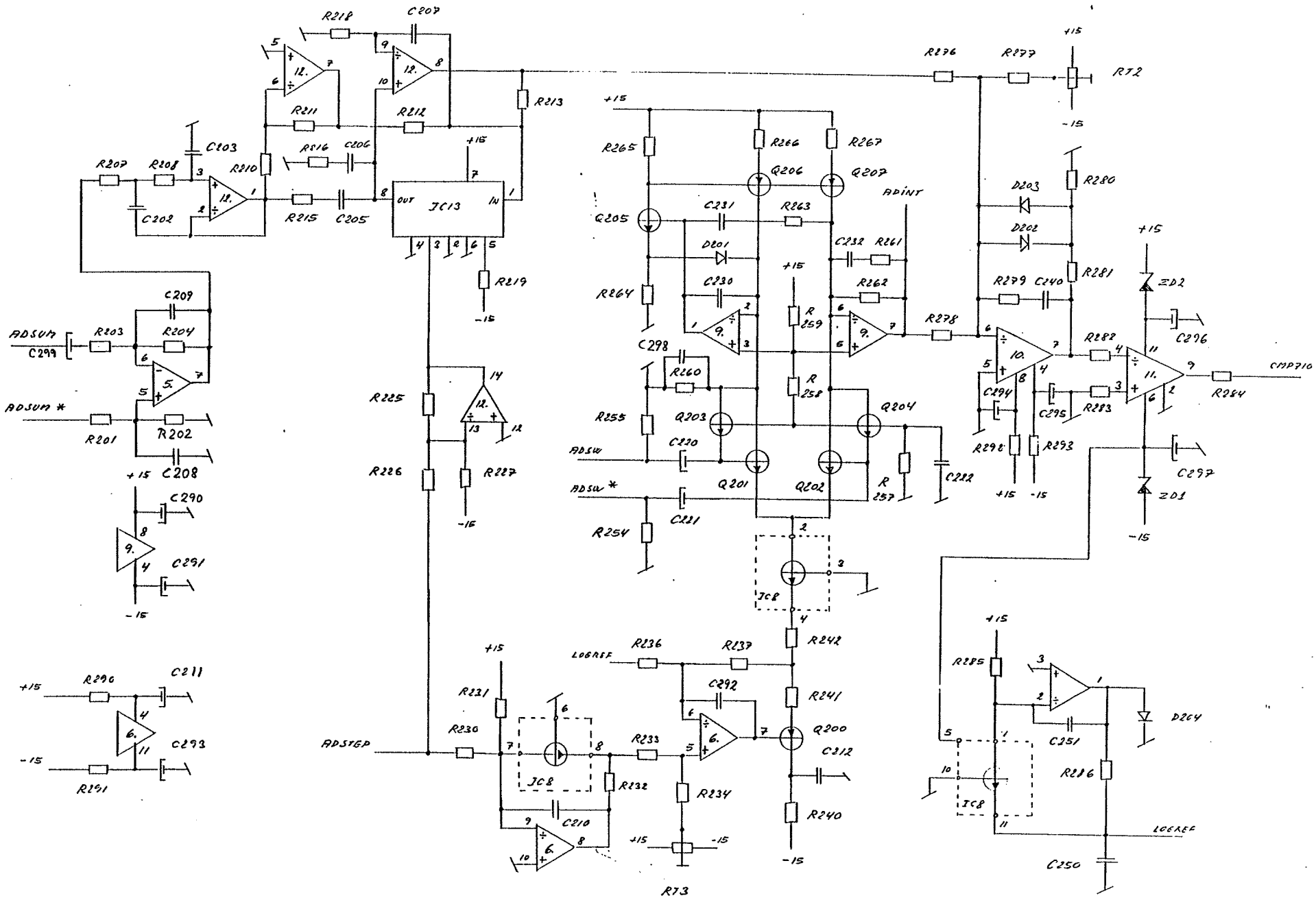
2290 CONVERTER





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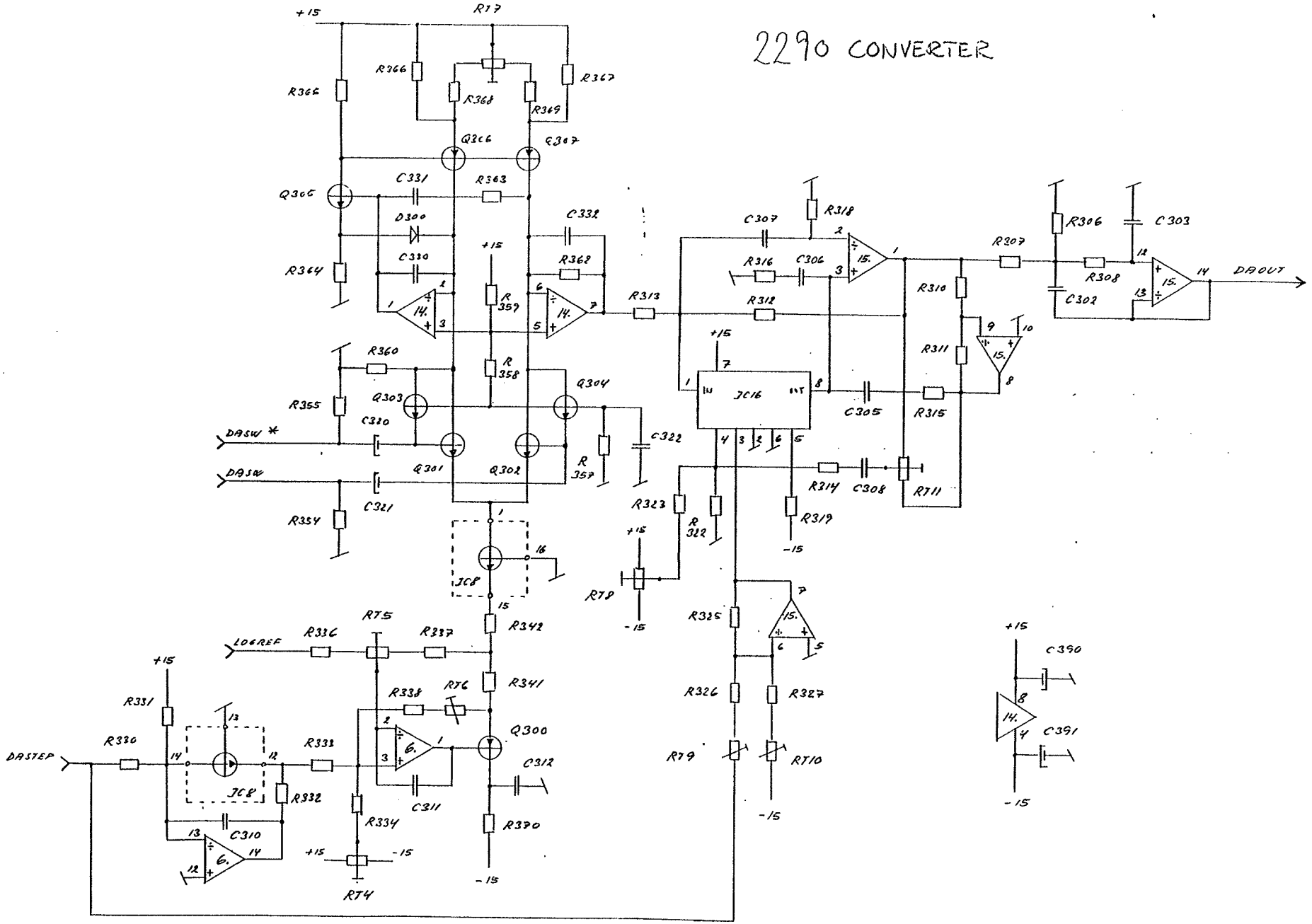
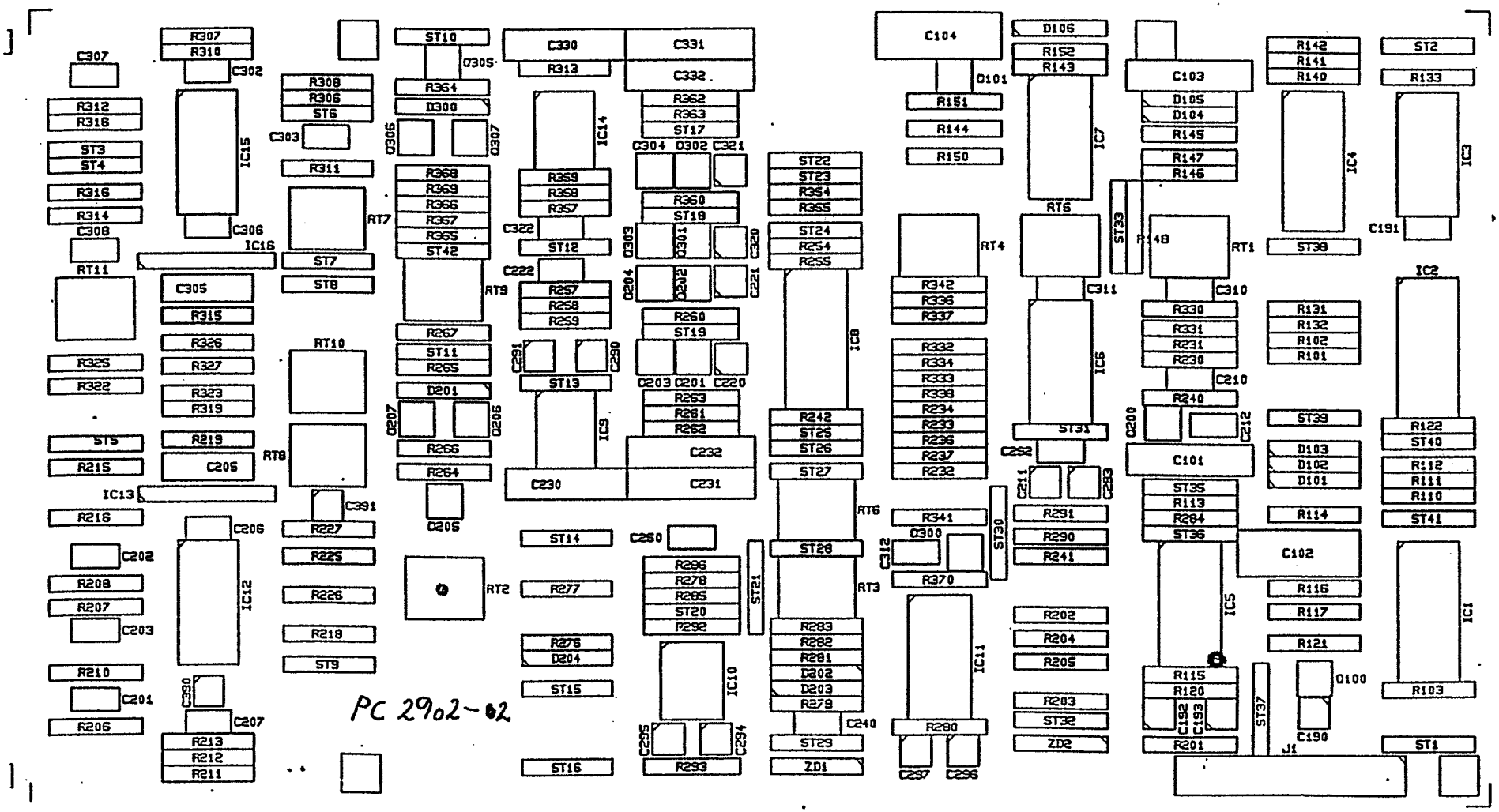
2750 A-MOD

2290 CONVERTER

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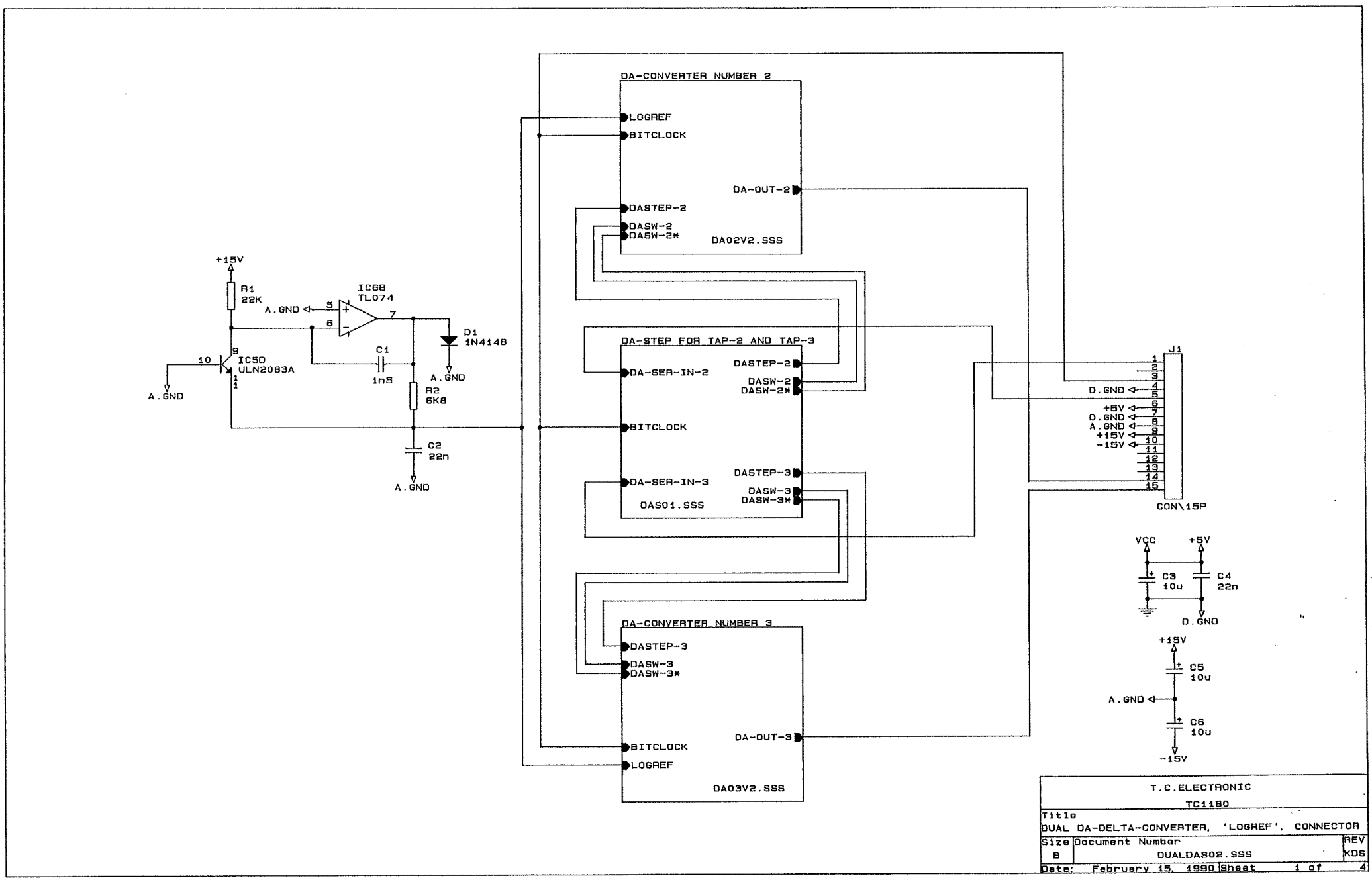
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DASTEP-2
DA-SER-IN-2
DASW-2
DASW-2*
BITCLOCK
DASTEP-3
DA-SER-IN-3
DASW-3
DASW-3*
DAS01.SSS
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DASW-3
DASW-3*
DA-OUT-3
BITCLOCK
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6K8
10
9
IC5D
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A.GND
J1
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D.GND
A.GND
+15V
-15V
CON\15P
VCC
+5V
C3
10u
C4
22n
D.GND
+15V
C5
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A.GND
C6
10u
-15V
T.C.ELECTRONIC
TC1180
Title
DUAL DA-DELTA-CONVERTER, 'LOGREF', CONNECTOR
Size
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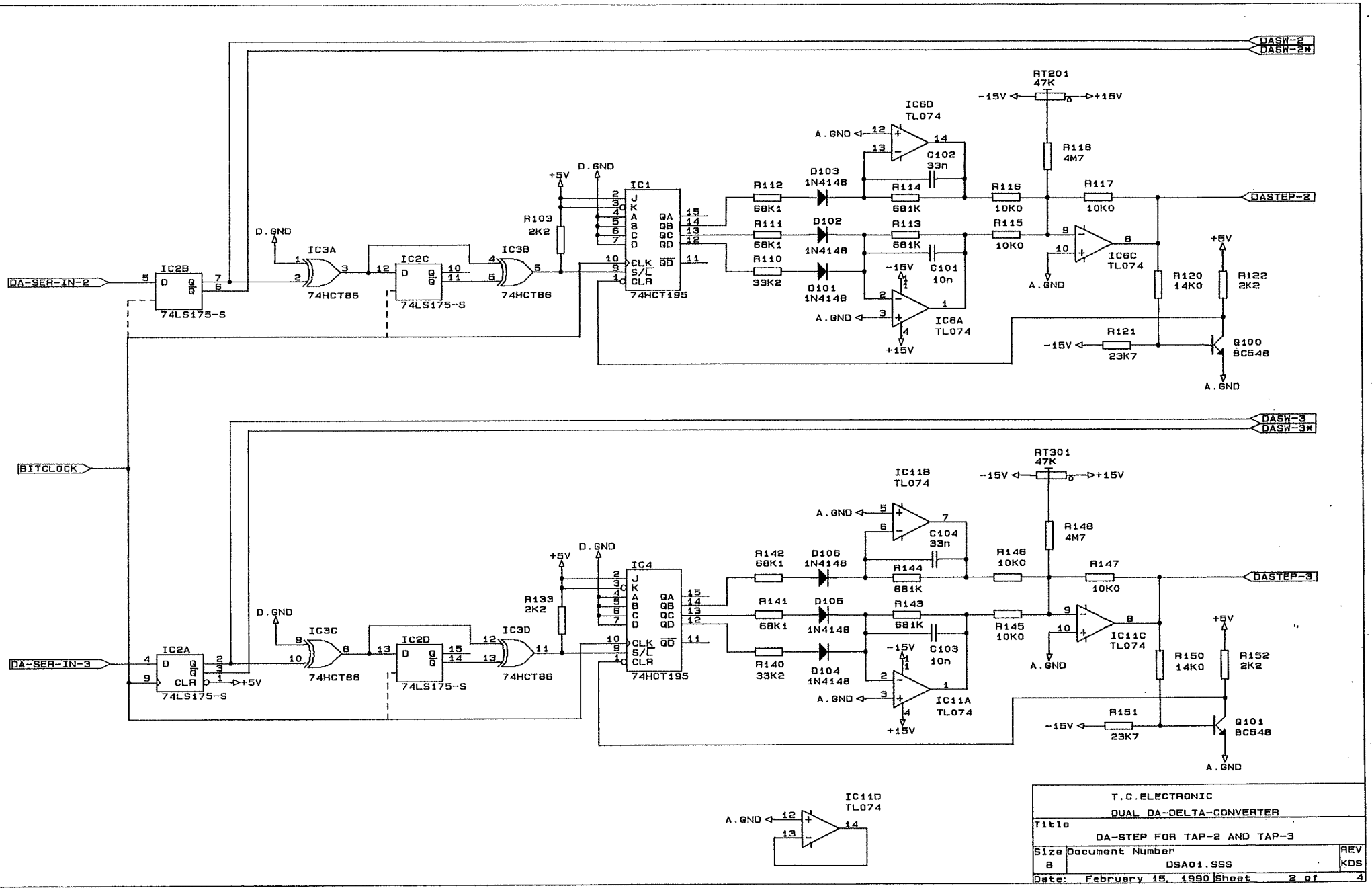
Document Number
DUALDAS02.SSS
REV
KDS
Date: February 15, 1990
Sheet 1 of 4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IC3A
74HCT86
IC2C
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74HCT86
D.GND
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2K2
IC1
74HCT195
R112
68K1
R111
68K1
R110
33K2
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D102
1N4148
D101
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R114
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R113
681K
C102
33n
C101
10n
IC6D
TL074
IC6A
TL074
A.GND
-15V
+15V
RT201
47K
R116
10K0
R115
10K0
R118
4M7
R117
10K0
IC6C
TL074
DASTEP-2
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14K0
R122
2K2
R121
23K7
Q100
BC548
BITCLOCK
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DASW-3*
DA-SER-IN-3
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74LS175-S
IC3C
74HCT86
IC2D
74LS175-S
IC3D
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IC4
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68K1
R141
68K1
R140
33K2
D106
1N4148
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1N4148
D104
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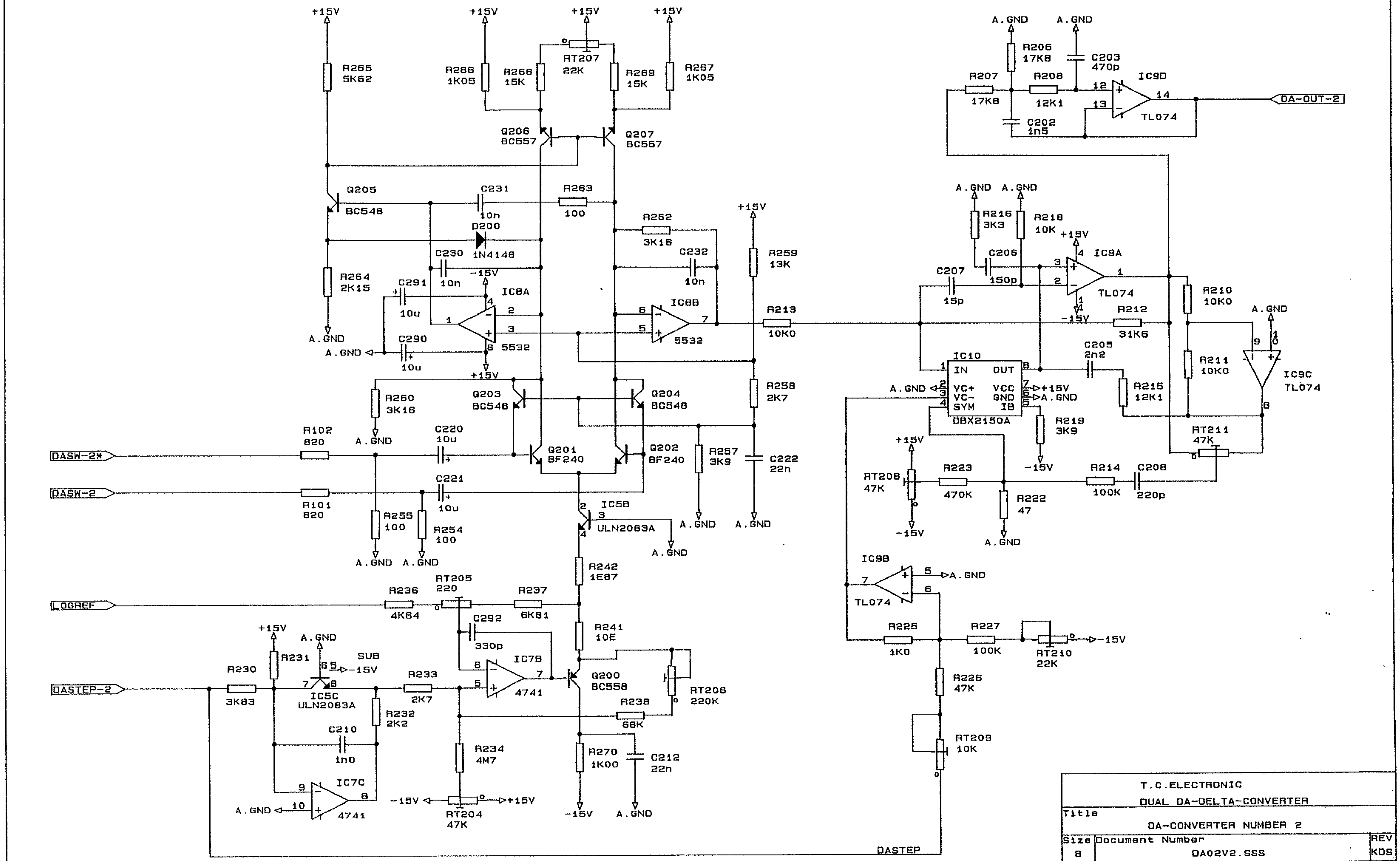
R143
681K
C104
33n
C103
10n
IC11B
TL074
IC11A
TL074
RT301
47K
R148
4M7
R146
10K0
R145
10K0
R147
10K0
IC11C
TL074
DASTEP-3
R150
14K0
R152
2K2
R151
23K7
Q101
BC548
IC11D
TL074
T.C.ELECTRONIC
DUAL DA-DELTA-CONVERTER
Title
DA-STEP FOR TAP-2 AND TAP-3
Size
B
Document Number
DSA01.SSS
REV
KDS
Date: February 15, 1990
Sheet 2 of 4



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IC9A TL074
IC9C TL074
IC9B TL074
IC10 DBX2150A
IN OUT VC+ VC- SYM VCC GND IB
IC8A 5532
IC8B 5532
IC5B ULN2083A
IC5C ULN2083A
SUB
IC7B 4741
IC7C 4741
Q205 BC548
Q206 BC557
Q207 BC557
Q203 BC548
Q204 BC548
Q201 BF240
Q202 BF240
Q200 BC558
D200 1N4148
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R266 1K05
R268 15K
RT207 22K
R269 15K
R267 1K05
R263 100
R262 3K16
R264 2K15
R259 13K
R213 10K0
R258 2K7
R257 3K9
R260 3K16
R102 820
R101 820
R255 100
R254 100
R242 1E87
R241 10E
R236 4K64
RT205 220
R237 6K81
R230 3K83
R231
R233 2K7
R232 2K2
R234 4M7
RT204 47K
R238 68K
RT206 220K
R270 1K00
R206 17K8
R207 17K8
R208 12K1
R216 3K3
R218 10K
R210 10K0
R212 31K6
R211 10K0
R215 12K1
R219 3K9
RT211 47K
RT208 47K
R223 470K
R222 47
R214 100K
R225 1K0
R227 100K
RT210 22K
R226 47K
RT209 10K
C203 470p
C202 1n5
C231 10n
C230 10n
C291 10u
C290 10u
C232 10n
C220 10u
C221 10u
C222 22n
C292 330p
C210 1n0
C212 22n
C207 15p
C206 150p
C205 2n2
C208 220p
+15V
-15V
A.GND

T.C.ELECTRONIC		
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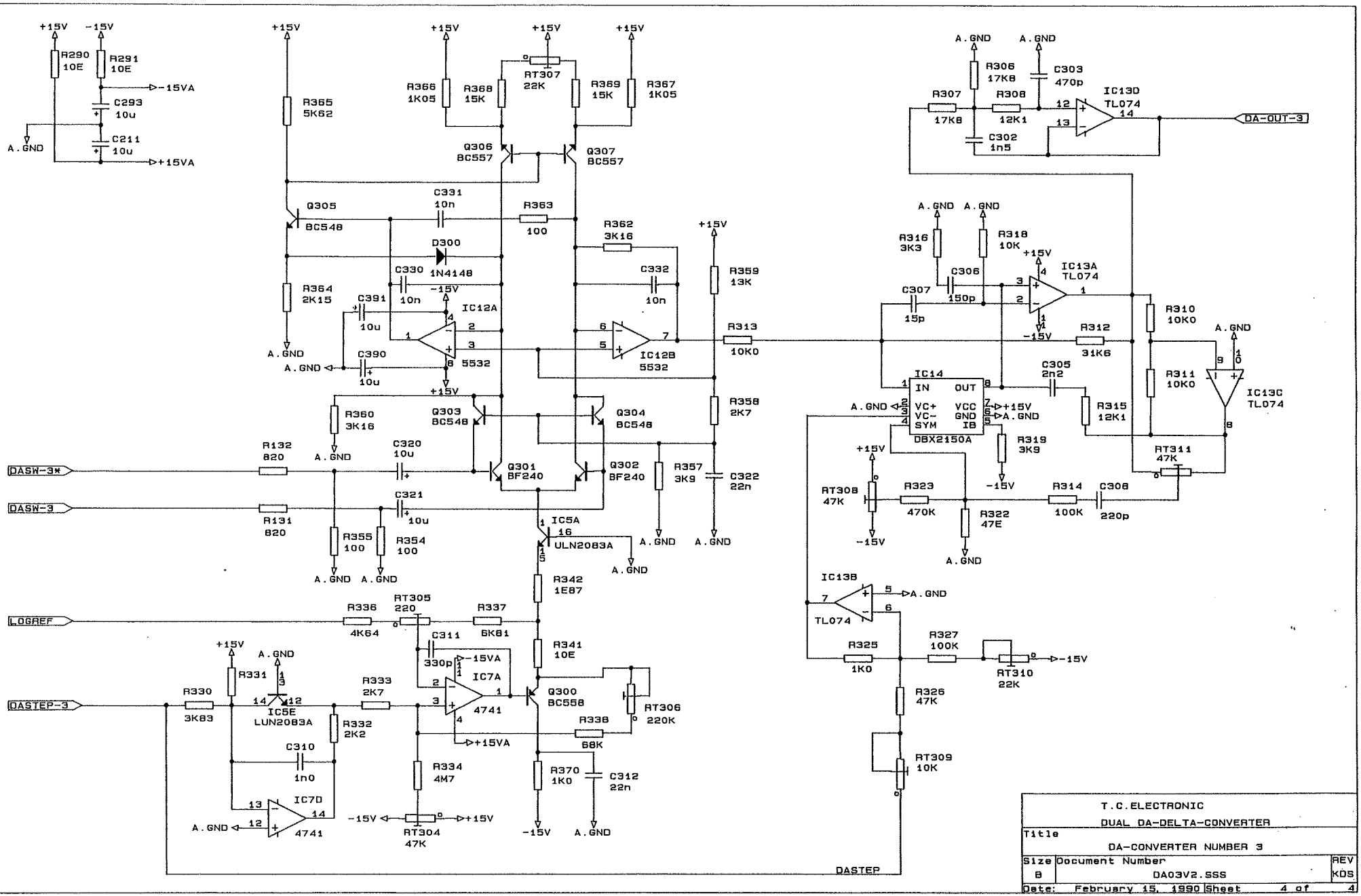
Size B	Document Number DA02V2.SSS	REV KDS
Date: February 15, 1990	Sheet 3 of 4	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-15V
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R291 10E
-15VA
C293 10u
C211 10u
+15VA
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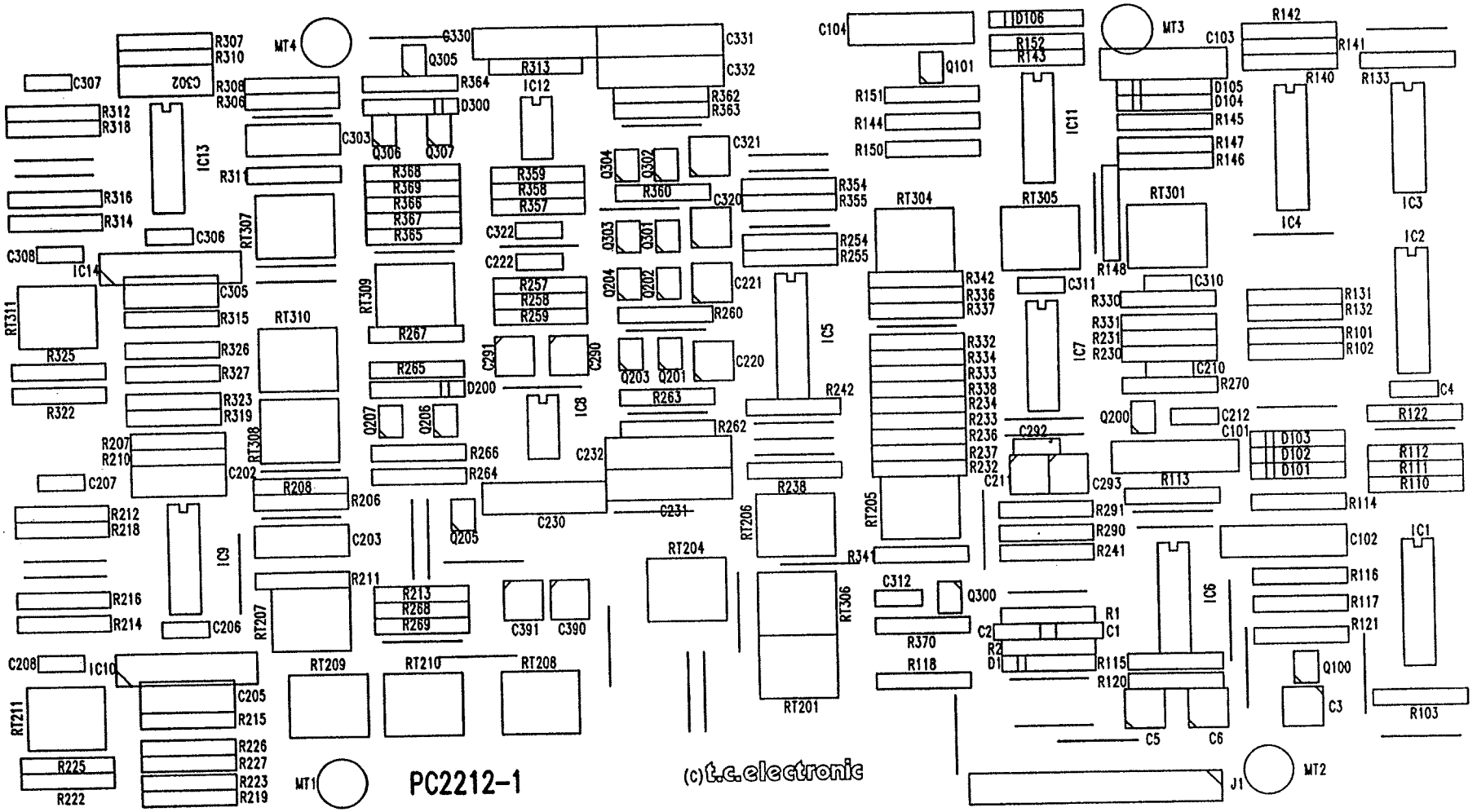
R368 15K
RT307 22K
R369 15K
R367 1K05
Q306 BC557
Q307 BC557
Q305 BC548
C331 10n
R363 100
R362 3K16
D300 1N4148
C330 10n
C332 10n
R364 2K15
C391 10u
C390 10u
IC12A
IC12B 5532
R359 13K
R313 10K0
R360 3K16
Q303 BC548
Q304 BC548
R358 2K7
R132 820
C320 10u
Q301 BF240
Q302 BF240
R357 3K9
C322 22n
DASW-3*
DASW-3
R131 820
C321 10u
R355 100
R354 100
IC5A ULN2083A
R342 1E87
LOGREF
R336 4K64
RT305 220
R337 6K81
C311 330p
R341 10E
DASTEP-3
R330 3K83
R331
IC5E LUN2083A
R333 2K7
IC7A 4741
Q300 BC558
RT306 220K
R338 68K
R332 2K2
C310 1n0
IC7D 4741
R334 4M7
RT304 47K
R370 1K0
C312 22n
DASTEP
R306 17K8
C303 470p
R307 17K8
R308 12K1
IC13D TL074
C302 1n5
DA-OUT-3
R316 3K3
R318 10K
C306 150p
C307 15p
IC13A TL074
R310 10K0
R312 31K6
R311 10K0
IC13C TL074
IC14 DBX2150A
C305 2n2
R315 12K1
R319 3K9
RT311 47K
RT308 47K
R323 470K
R322 47E
R314 100K
C308 220p
IC13B TL074
R325 1K0
R327 100K
RT310 22K
R326 47K
RT309 10K
T.C.ELECTRONIC
DUAL DA-DELTA-CONVERTER
Title
DA-CONVERTER NUMBER 3
Size B
Document Number DA03V2.SSS
REV KDS
Date: February 15, 1990 Sheet 4 of 4


PC2212-1
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MT1
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IC7
IC8
IC9
IC10
IC11
IC12
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IC14
RT201
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D300
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Q307
IC12
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R357
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R369
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R255
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Q202
C221
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C291
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C1
C2
R2
D1
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R120
C5
C6
C104
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R150
D106
R152
R143
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R113
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IC6
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C2
R2
D1
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R120
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C6
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D300
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R313
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C332
R362
R363
C321
R354
R355
R360
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Q303
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C320
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Q204
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C306
C308
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D104
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C212
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R117
R121
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R118
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C2
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C6
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51.0 e
8.0 e
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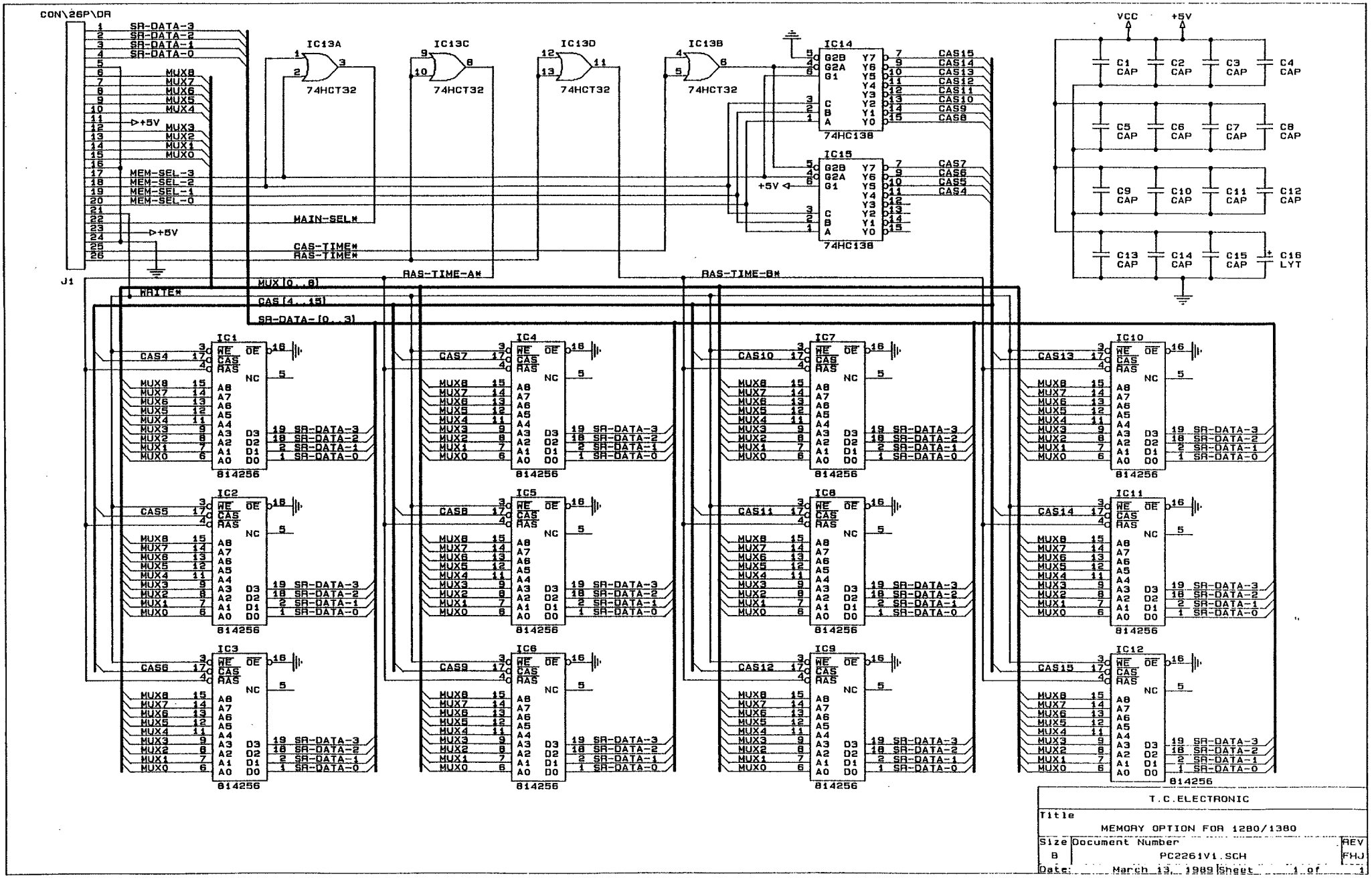
94.50 e
1.0 e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MUX8
MUX7
MUX6
MUX5
MUX4
+5V
MUX3
MUX2
MUX1
MUX0
MEM-SEL-3
MEM-SEL-2
MEM-SEL-1
MEM-SEL-0
+5V
J1
IC13A
IC13C
IC13D
IC13B
74HCT32
MAIN-SELM
CAS-TIMEM
RAS-TIMEM
RAS-TIME-AM
RAS-TIME-BM
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CAS[4..15]
SR-DATA-[0..3]
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IC15
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CAS15
CAS14
CAS13
CAS12
CAS11
CAS10
CAS9
CAS8
CAS7
CAS6
CAS5
CAS4
VCC
+5V
C1 CAP
C2 CAP
C3 CAP
C4 CAP
C5 CAP
C6 CAP
C7 CAP
C8 CAP
C9 CAP
C10 CAP
C11 CAP
C12 CAP
C13 CAP
C14 CAP
C15 CAP
C16 LYT
IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC8
IC9
IC10
IC11
IC12
814256
T.C.ELECTRONIC
Title
MEMORY OPTION FOR 1280/1380
Size B
Document Number PC2261V1.SCH
REV FHJ
Date: March 13, 1989
Sheet 1 of 1

PARTSLIST PC2204-1 POTMETER PRINT:

```
PL-,NO-,TYPE---,TCKODE---,KOMPONENT-----,TXT-----

RV ,  1,MODST  ,2E*B010K-,10K lin pot  , SD = right output, MT = tap 3 output
RV ,  2,MODST  ,2E*B010K-,10K lin pot  , SD = left output, MT = tap 2 output
RV ,  3,MODST  ,         ,SD = open    ,
RV ,  3,MODST  ,2E*B010K-,MT=10K linpot, MT = tap 1 output
RV ,  4,MODST  ,2E*B010K-,SD=10K linpot, SD = right input
RV ,  4,MODST  ,         ,MT=open      ,
RV ,  5,MODST  ,2E*B010K-,10K lin pot  , SD = left input, MT = input

J  ,  1,       ,FLAD-TC13,             ,

PCB,  4,PRINT  ,PCB2204-2,             ,
```

PARTSLIST PC2203-3 KEY-/DISPLAY-PRINT:

```
PL-,NO-,TYPE---,TCKODE---,KOMPONENT----,TXT----

C  ,  1,ELLYT  ,371M047U-,47uF/10V     , LF afkobling
C  ,  2,MTL    ,36-B100N-,100 nF Ker.  , HF afkobling.

D  ,  1,DIODE  ,4D-1N4148,1N4148       ,
D  ,  2,DIODE  ,4D-1N4148,1N4148       ,
D  ,  3,DIODE  ,4D-1N4148,1N4148       ,
D  ,  4,DIODE  ,4D-1N4148,1N4148       ,
D  ,  5,DIODE  ,4D-1N4148,1N4148       ,
D  ,  6,DIODE  ,4D-1N4148,1N4148       ,

DG ,  1,DIGIT  ,9-7SEG-RØ,             , Digit xxxxx8
DG ,  2,DIGIT  ,9-7SEG-RØ,             , Digit xxxx8x
DG ,  3,DIGIT  ,9-7SEG-RØ,             , Digit xxx8xx
DG ,  4,DIGIT  ,9-7SEG-RØ,             , Digit xx8xxx
DG ,  5,DIGIT  ,9-7SEG-RØ,             , Digit x8xxxx
DG ,  6,DIGIT  ,9-7SEG-RØ,             , Digit 8xxxxx

IC ,  1,       ,7-UDN2585,UDN2585A     , Segemnt driver
IC ,  2,CMOS   ,60-C4051-,4051         , Digit selector

J  ,  1,       ,FLAD-TC14,            ,CON020PØDR

LD ,  1,       ,9-2,5X5GR,             , groen type, -20 dB led
LD ,  2,       ,9-2,5X5GR,             , groen type, -10 dB led
LD ,  3,       ,9-2,5X5GR,             , groen type, -3 dB led
LD ,  4,       ,9-2,5X5GU,             , gul type, 0 dB led
LD ,  5,       ,9-2,5X5RØ,             , roed type, SD = peak led, MT = +3 dB
LD ,  6,       ,9-LEDBAR6,             , SD = L = R led, MT = tap 3 led
LD ,  7,       ,9-LEDBAR6,             , SD = right led , MT = tap 2 led
LD ,  8,       ,9-LEDBAR6,             , SD = left led, MT = tap 1 led
LD ,  9,       ,9-2,5X5OR,             , orange type,  SD = bypass, MT = tap 1
LD , 10,       ,9-2,5X5OR,             , orange type, SD = mute , MT = tap 2 LD
LD , 11,       ,9-2,5X5OR,             , orange type, SD = mono, MT = tap 3

PCB,  3,PRINT  ,PCB2203-3,             ,

Q  ,  1,TRANS  ,5-ZTX753-,ZTX753       ,NPN, Digit driver
Q  ,  2,TRANS  ,5-ZTX753-,ZTX753       ,NPN, Digit driver
Q  ,  3,TRANS  ,5-ZTX753-,ZTX753       ,NPN, Digit driver
Q  ,  4,TRANS  ,5-ZTX753-,ZTX753       ,NPN, Digit driver
Q  ,  5,TRANS  ,5-ZTX753-,ZTX753       ,NPN, Digit driver
Q  ,  6,TRANS  ,5-ZTX753-,ZTX753       ,NPN, Digit driver
Q  ,  7,TRANS  ,5-ZTX753-,ZTX753       ,NPN, Led driver

R  ,  1,MODST  ,1A5%100E-,100E         , Seven segment point current
R  ,  2,MODST  ,1A5%100E-,100E         , Seven segment g current
R  ,  3,MODST  ,1A5%100E-,100E         , Seven segment f current
R  ,  4,MODST  ,1A5%100E-,100E         , Seven segment e current
R  ,  5,MODST  ,1A5%100E-,100E         , Seven segment d current
R  ,  6,MODST  ,1A5%100E-,100E         , Seven segment c current
R  ,  7,MODST  ,1A5%100E-,100E         , Seven segment b current
R  ,  8,MODST  ,1A5%100E-,100E         , Seven segment a current
R  ,  9,MODST  ,1A5%100E-,100E         , SD = Left, MT = tap 1 led current
R  , 10,MODST  ,1A5%100E-,100E         , SD = Right, MT = tap 2 led current
```

```
R  , 11,MODST  ,1A5%100E-,100E      , SD = L=R, MT = tap 3 led current
R  , 12,MODST  ,1A5%100E-,100E      , SD = Peak, MT = +3 dB led current
R  , 13,MODST  ,1A5%100E-,100E      , 0 dB led current
R  , 14,MODST  ,1A5%100E-,100E      , -3 dB led current
R  , 15,MODST  ,1A5%100E-,100E      , -10 db led current
R  , 16,MODST  ,1A5%100E-,100E      , -20 dB led current
R  , 17,MODST  ,1A5%100E-,100E      , LD 9, 10 og 11 display current.

S  ,  1,SWITCH ,G-TRYK--1,          , SD = Bypass, MT = tap 1 mute.
S  ,  2,SWITCH ,G-TRYK--1,          , SD = Mute, MT = tap 2 mute.
S  ,  3,SWITCH ,G-TRYK--1,          , SD = Mono, MT = tap 3 mute.
S  ,  4,SWITCH ,G-TRYK--1,          , Delay line.
S  ,  5,SWITCH ,G-TRYK--1,          , Delay down.
S  ,  6,SWITCH ,G-TRYK--1,          , Delay up.
```

PARTSLIST 2202-4, 1280/1380 DIGITAL PRINT

REF	NO-	TYPE---	TCKODE---	KOMPONENT----	POS	PG-	TXT
R	1	MODST	1B5%010K-	10K	G2	1	pull up af P21
R	2	MODST	1B5%004K7	4K7	G2	1	pull up af P16 i/o (MT/SD)
R	3	MODST	1A5%470E-	470E	G3	1	pull up af watchdog analog pw.
R	4	MODST	1B5%047K-	47K	G3	1	CPU power fail og reset.
R	5	MODST	1B5%001K0	1K0	G2	1	pull down for key-sense
R	6	MODST	1B5%010K-	10K	G3	1	CPU power fail og reset.
R	7	MODST	1B5%022K-	22K	A2	2	4046 phase lock filter.
R	8	MODST	1B5%008K2	8K2	A1	2	4046 oscillator freq.
R	9	MODST	1C5%002M2	2M2	F1	2	6.4 MHz osc. DC bias
R	10	MODST	1B5%001K0	1K0	E1	2	Sourse impedance tilpasning
R	14	MODST	1B5%002K2	2K2	E9	3	Slow turn on/off af display
R	15	MODST	1B5%010K-	10K	G7	6	Aktiver main memory uden opt.
R	16	MODST	1C5%002M2	2M2	G5	3	ppm-dac
R	17	MODST	1C5%001M-	1M0	G5	3	ppm-dac
R	18	MODST	1B5%470K-	470K	G5	3	ppm-dac
R	19	MODST	1B5%240K-	240K	G5	3	ppm-dac
R	20	MODST	1B5%120K-	120K	G5	3	ppm-dac
R	21	MODST	1B5%062K-	62K	G5	3	ppm-dac
R	22	MODST	1B5%030K-	30K	G5	3	ppm-dac
R	23	MODST	1B5%015K-	15K	G5	3	ppm-dac
R	25	RARRAY	1S4B010K-	10K 8P4R	G2	1	RØ1M. Dil-sw pull up.
R	26			=R25	GR	1	RØ1M. Dil-sw pull up.
R	27			=R25	G1	1	RØ1M. Dil-sw pull up.
R	28			=R25	G1	1	RØ1M. Dil-sw pull up.
RX	1	LUS	19-LUS-UI	lus	F1	2	Uisoleret lus til XTAL
C	1	MTL	36-C001U-	1u0	F2	1	CPU batteri backup afkobling
C	2	TANTAL	35-B00U22	0.22u	G3	1	CPU reset delay
C	3	TANTAL	35-B00U22	0.22u	G3	1	CPU standby delay
C	4	MTL	36-B100N-	100n	A8	1	+5 volt afkobling
C	5	MTL	36-C001U-	1u0	B1	1	CPU batteri backup afkobling
C	6	PLAQ	31-A068P-	68p	B1	2	4046 oscillator freq.
C	7	PLAQ	31-B022N-	22n	A1	2	4046 phase lock filter.
C	8	PLAQ	31-B022N-	22n	E9	3	Slow on/off display
C	10	ELLYT	371M010U-	47u/16volt	C2	8	lavprofil 1 module
C	11	MTL	36-B100N-	100n	A8	8	+5 volt afkobling
C	12	MTL	36-B100N-	100n	B8	8	+5 volt afkobling
C	13	MTL	36-B100N-	100n	C8	8	+5 volt afkobling
C	14	MTL	36-B100N-	100n	D8	8	+5 volt afkobling
C	15	MTL	36-B100N-	100n	E8	8	+5 volt afkobling
C	16	MTL	36-B100N-	100n	F8	8	+5 volt afkobling
C	17	MTL	36-B100N-	100n	D6	8	+5 volt afkobling
C	18	MTL	36-B100N-	100n	A6	8	+5 volt afkobling
C	19	MTL	36-B100N-	100n	F6	8	+5 volt afkobling
C	20	MTL	36-B100N-	100n	C3	8	+5 volt afkobling
C	21	MTL	36-B100N-	100n	E2	8	+5 volt afkobling
C	22	MTL	36-B100N-	100n	A3	8	+5 volt afkobling
C	23	ELLYT	371M010U-	47u/16volt	D9	8	lavprofil 1 module
C	24	PLAQ	31-A033P-	33p	F1	2	6.4 MHz krystal osc.
C	25	PLAQ	31-A033P-	33p	F1	2	6.4 MHz krystal osc.

```
IC ,  1,HCTMOS ,65HCT4046,74HCT4046     ,A2 ,2  , MIDI clock oscillator. HC ok.
IC ,  2,HCMOS  ,62-HC04--,74HC04        ,E1 ,1  , IC delt paa side 1+2+4
IC ,  3,HCMOS  ,63-HC4518-74HC4518      ,B2 ,2  , MIDI clock divider
IC ,  4,HCMOS  ,63-HC373-,74HC373       ,C2 ,1  , CPU adr. latch

IC ,  5,EPROM  ,8-EPR256K,27256         ,D2 ,1  , EPROM. 32K bytes.
```

The earlier types MS2Vxx og MS3Vxx can not be used.
PC2202-4 have to use MS1Vxx in both 1280 og 1380.

```
IC ,  6,CPU    ,8-CPU-63-,63B03         ,F2 ,1  , CPU. kun 63B03
IC ,  7,HCMOS  ,64-HCT00-,74HCT00       ,C4 ,4+6,
IC ,  8,HCMOS  ,62-HC74--,74HC74        ,D4 ,1+4, MIDI clk divider + P21 delay
IC ,  9,HCTMOS ,65-HCT195,74HCT195      ,A5 ,6  , left ( MT = tap 2 )
IC , 10,HCTMOS ,65-HCT157,74HCT157      ,B5 ,6  , SD/MT mode.
IC , 11,HCMOS  ,63-HC138-,74HC138       ,C5 ,1  , CPU I/O adr. decode
IC , 12,HCMOS  ,63-HC174-,74HC174       ,D5 ,3  , CPU control register.
IC , 13,HCMOS  ,63-HC374-,74HC374       ,E5 ,3  , Sequency data register
IC , 14,HCMOS  ,63-HC374-,74HC374       ,F5 ,3  , Segment og PMM DAC data reg.
IC , 15,HCTMOS ,65-HCT195,74HCT195      ,A6 ,6  , Right ( MT = tap 3 )
IC , 16,TTL LS ,67-LS395-,74LS395       ,B6 ,6  ,
IC , 17,TTL LS ,67-LS395-,74LS395       ,C6 ,6  , Left serial data in
IC , 18,HCMOS  ,63-HC175-,74HC175       ,D6 ,3  , CPU control register
IC , 19,HCTMOS ,64-HCT32-,74HCT32       ,E6 ,5+6,
IC , 20,HCTMOS ,64-HCT08-,74HCT08       ,F6 ,1+4+5,
IC , 21,HCTMOS ,64-HCT02-,74HCT02       ,G6 ,4+6,
IC , 22,HCTMOS ,65-HCT139,74HCT139      ,A7 ,6  ,
IC , 23,TTL S  ,68-S189--,74S189        ,B7 ,5  ,
IC , 24,TTL S  ,68-S189--,74S189        ,C7 ,5  ,
IC , 25,HCTMOS ,65-HCT283,74HCT283      ,D7 ,5  ,
IC , 26,HCTMOS ,65-HCT283,74HCT283      ,E7 ,5  ,
IC , 27,PAL    ,74-PEEL80,16R8/MTSDV1R3,F7 ,4  ,
IC , 28,HCTMOS ,64-HCT00-,74HCT00       ,G6 ,1+4+5,
IC , 29,ACTMOS ,60-AHCT32,74ACT32       ,G7 ,1+4+6
IC , 30,DYNRAM ,8-DY1024*,814256        ,A8 ,7  ,256Kx4 Sound mem. 0.00-1.25 Sec
IC , 31,DYNRAM ,         ,814256 option,B8 ,7  ,256Kx4 Sound mem. 1.25-2.50 Sec
IC , 32,DYNRAM ,         ,814256 option,C8 ,7  ,256Kx4 Sound mem. 2.50-3.75 Sec
IC , 33,DYNRAM ,         ,814256 option,D8 ,7  ,256Kx4 Sound mem. 3.75-5.00 Sec
IC , 34,HCMOS  ,63-HC534-,74HC534       ,E8 ,5  ,
IC , 35,HCMOS  ,63-HC157-,74HC157       ,F8 ,5  ,
IC , 36,HCTMOS ,65-HCT174,74HCT174      ,G8 ,5  ,

D  ,  1,DIODE  ,4D-1N4148,1N4148        ,G3 ,1  , CPU reset og power fail.

X  ,  1,X-TAL  ,8-XTAL6M4,6.400MHz      ,F1 ,2  , Max. +-25 ppm afvigelse.

SW ,  1,DILOMSK,G-DIL-4PO,4 POL         ,G1 ,1  , dil-switch til mem. size valg

ICJ,  5,IC-SOKL,C-ICSOK28,28POL         ,   ,   , Sokkel for IC 5 = Eprom
ICJ,  6,IC-SOKL,C-ICSOK40,40POL         ,   ,   , Sokkel for IC 6 = CPU
ICJ, 27,IC-SOKL,C-ICSOK20,20POL         ,   ,   , Sokkel for IC 27 = PAL
ICJ, 30,IC-SOKL,C-ICSOK20,20POL         ,   ,   , Sokkel for IC 30
ICJ, 31,IC-SOKL,C-ICSOK20,20POL         ,   ,   , Sokkel for IC 31
ICJ, 32,IC-SOKL,C-ICSOK20,20POL         ,   ,   , Sokkel for IC 32
ICJ, 33,IC-SOKL,C-ICSOK20,20POL         ,   ,   , Sokkel for IC 33
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J   ,  1,PIN-DR ,CHA12-20P,20 POL DR-V  ,E9 ,8  , connector til display pw.
J   ,  2,PIN-DR ,CHA12-26P,26 POL DR-V  ,A9 ,8  , connector til memory option
J   ,  3,PIN-DR ,CHA12-26P,26 POL DR-V  ,B3 ,8  , connector til analog pw.

PCB,   2,PRINT  ,PCB2202-5,1280/1380 D  ,   ,   , DIGITAL PRINTBOARD = PC2202-4
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PARTSLIST PC2201-4, 1380 MAIN

PL-,NO-,TYPE---,TCCODE---,COMPONENT----,POS,PG-,TXT----

R	,101	MODST	,1-0,1%10K	,10K0 0.1%	,A4	,1	, left input
R	,102	MODST	,1%B010K5-	,10K5 1%	,A2	,1	, left input
R	,103	MODST	,1B5%200K-	,200K	,A2	,1	, left input
R	,104	MODST	,1-0,1%10K	,10K0 0.1%	,A4	,1	, left input
R	,105	MODST	,1%B010K5-	,10K5 1%	,A3	,1	, left input
R	,106	MODST	,1B5%200K-	,200K	,A3	,1	, left input
R	,107	MODST	,1%B010K0-	,10K0 1%	,A3	,1	, left input
R	,108	MODST	,1%B010K0-	,10K0 1%	,A2	,1	, left input
R	,109	MODST	,1B5%002K7	,2K7	,B2	,1	, left input potmeter amp.
R	,110	MODST	,1a5%510E-	,510E	,B2	,1	, left input potmeter amp.
R	,111	MODST	,1A5%680E-	,680E	,A2	,1	, left input potmeter amp.
R	,112	MODST	,1%B010K0-	,10K0 1%	,B2	,1	, input mono/stereo
R	,113	MODST	,	,open	,B4	,1	, input mono/stereo
R	,114	MODST	,	,open	,B4	,1	,
R	,115	MODST	,	,open	,B3	,1	,
R	,116	MODST	,1%B010K0-	,10K0 1%	,B3	,1	, preemphase gain
R	,117	MODST	,1%B003K01	,3K01 1%	,B3	,1	,
R	,121	MODST	,	,open	,B4	,1	,
R	,122	MODST	,	,open	,B2	,1	,
R	,123	MODST	,	,open	,B2	,1	,
R	,124	MODST	,	,open	,B4	,1	,
R	,125	MODST	,	,open	,B3	,1	,
R	,126	MODST	,	,open	,B4	,1	,
R	,127	MODST	,	,open	,B3	,1	,
R	,128	MODST	,	,open	,B2	,1	,
R	,129	MODST	,	,open	,C2	,1	,
R	,130	MODST	,	,open	,C2	,1	,
R	,131	MODST	,	,open	,C2	,1	,
R	,132	MODST	,	,open	,C2	,1	,
R	,133	MODST	,	,open	,B4	,1	,
R	,134	MODST	,	,open	,C4	,1	,
R	,135	MODST	,	,open	,C3	,1	,
R	,136	MODST	,	,open	,C3	,1	,
R	,141	MODST	,	,open	,F4	,1	,
R	,201	MODST	,	,open	,B2	,2	,
R	,202	MODST	,	,open	,C2	,2	,
R	,203	MODST	,1%B003K01	,3K01 1%	,C3	,2	, tap 1 deemphase
R	,204	MODST	,1%B010K0-	,10K0 1%	,C3	,2	, tap 3 deemphase
R	,205	MODST	,1B5%005K6	,5K6	,C2	,2	, tap 1 deemphase amp.
R	,206	MODST	,1%B010K0-	,10K0 1%	,D3	,2	, mono output sum amp.
R	,207	MODST	,	,open	,D3	,2	,
R	,208	MODST	,19-LUS-00	,0E	,D3	,2	, tap 3 kobles til outp. driver.
R	,209	MODST	,1-0,1%10K	,10K0 0.1%	,D3	,2	, tap 3 diff. out. driver
R	,210	MODST	,1-0,1%10K	,10K0 0.1%	,D3	,2	, tap 3 diff. out. driver
R	,211	MODST	,1-0,1%10K	,10K0 0.1%	,D4	,2	, tap 3 diff. out. driver

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R  ,212,MODST  ,1-0,1%10K,10K0 0.1%    ,D4 ,2  , tap 3 diff. out. driver
R  ,213,MODST  ,1-0,1%10K,10K0 0.1%    ,C3 ,2  , tap 3 diff. out. driver
R  ,214,MODST  ,1-0,1%10K,10K0 0.1%    ,D3 ,2  , tap 3 diff. out. driver
R  ,215,MODST  ,1%A046E4-,46E4 1%      ,C4 ,2  , tap 3 diff. out. driver
R  ,216,MODST  ,1-0,1%10K,10K0 0.1%    ,D4 ,2  , tap 3 diff. out. driver
R  ,217,MODST  ,1-0,1%10K,10K0 0.1%    ,C4 ,2  , tap 3 diff. out. driver
R  ,218,MODST  ,1%A046E4-,46E4 1%      ,C4 ,2  , tap 3 diff. out. driver
R  ,221,MODST  ,1B5%005K6,5K6          ,D2 ,2  , tap 2 deemphase amp.
R  ,222,MODST  ,1%B003K01,3K01 1%      ,D2 ,2  , tap 2 deemphase
R  ,223,MODST  ,1%B010K0-,10K0 1%      ,D2 ,2  , tap 2 deemphase
R  ,224,MODST  ,1-0,1%10K,10K0 0.1%    ,F3 ,2  , tap 2 diff. out. driver
R  ,225,MODST  ,1-0,1%10K,10K0 0.1%    ,F3 ,2  , tap 2 diff. out. driver
R  ,226,MODST  ,1-0,1%10K,10K0 0.1%    ,E3 ,2  , tap 2 diff. out. driver
R  ,227,MODST  ,1-0,1%10K,10K0 0.1%    ,F3 ,2  , tap 2 diff. out. driver
R  ,228,MODST  ,1-0,1%10K,10K0 0.1%    ,F4 ,2  , tap 2 diff. out. driver
R  ,229,MODST  ,1-0,1%10K,10K0 0.1%    ,F4 ,2  , tap 2 diff. out. driver
R  ,230,MODST  ,1-0,1%10K,10K0 0.1%    ,F4 ,2  , tap 2 diff. out. driver
R  ,231,MODST  ,1-0,1%10K,10K0 0.1%    ,E4 ,2  , tap 2 diff. out. driver
R  ,232,MODST  ,1%A046E4-,46E4 1%      ,E3 ,2  , tap 2 diff. out. driver
R  ,233,MODST  ,1%A046E4-,46E4 1%      ,E4 ,2  , tap 2 diff. out. driver
R  ,241,MODST  ,1%B003K01,3K01 1%      ,C2 ,2  , tap 3 deemphase
R  ,242,MODST  ,1%B010K0-,10K0 1%      ,C2 ,2  , tap 3 deemphase
R  ,243,MODST  ,1B5%005K6,5K6          ,C1 ,2  , tap 3 deemphase amp.
R  ,244,MODST  ,1-0,1%10K,10K0 0.1%    ,G3 ,2  , tap 3 diff. out. driver
R  ,245,MODST  ,1-0,1%10K,10K0 0.1%    ,G3 ,2  , tap 3 diff. out. driver
R  ,246,MODST  ,1-0,1%10K,10K0 0.1%    ,G3 ,2  , tap 3 diff. out. driver
R  ,247,MODST  ,1-0,1%10K,10K0 0.1%    ,G3 ,2  , tap 3 diff. out. driver
R  ,248,MODST  ,1-0,1%10K,10K0 0.1%    ,G3 ,2  , tap 3 diff. out. driver
R  ,249,MODST  ,1-0,1%10K,10K0 0.1%    ,G3 ,2  , tap 3 diff. out. driver
R  ,250,MODST  ,1-0,1%10K,10K0 0.1%    ,G4 ,2  , tap 3 diff. out. driver
R  ,251,MODST  ,1-0,1%10K,10K0 0.1%    ,G4 ,2  , tap 3 diff. out. driver
R  ,252,MODST  ,1%A046E4-,46E4 1%      ,G4 ,2  , tap 3 diff. out. driver
R  ,253,MODST  ,1%A046E4-,46E4 1%      ,G4 ,2  , tap 3 diff. out. driver
R  ,261,MODST  ,          ,open        ,C4 ,2  ,
R  ,262,MODST  ,1A5%068E-,68E          ,C4 ,2  , Bypass relay driver.
R  ,263,MODST  ,1B5%002K2,2K2          ,B4 ,2  , Bypass relay driver.
R  ,264,MODST  ,1B5%002K2,2K2          ,C1 ,2  , Bypass relay driver.
R  ,265,MODST  ,1B5%001K0,1K0          ,C4 ,2  , Bypass relay driver.
R  ,271,MODST  ,19-LUS-00,0E           ,C4 ,2  , bypass til tap 3
R  ,272,MODST  ,19-LUS-00,0E           ,D4 ,2  , bypass til tap 3
R  ,301,MODST  ,1A5%220E-,220E         ,G5 ,3  , MIDI out.
R  ,302,MODST  ,1A5%220E-,220E         ,G5 ,3  , MIDI out
R  ,303,MODST  ,1B5%022K-,22K          ,F2 ,3  , left ppm.
R  ,304,MODST  ,1B5%010K-,10K          ,F2 ,3  , left ppm.
R  ,305,MODST  ,1B5%001K0,1K           ,F2 ,3  , left ppm.
R  ,306,MODST  ,1B5%033K-,33K          ,F2 ,3  , left ppm. decay time
R  ,307,MODST  ,1B5%004K7,4K7          ,F2 ,3  , left ppm. LM339 outp. pull up
R  ,308,MODST  ,          ,open        ,E2 ,3  ,
R  ,309,MODST  ,          ,open        ,E2 ,3  ,
R  ,310,MODST  ,          ,open        ,E2 ,3  ,
R  ,311,MODST  ,          ,open        ,E2 ,3  ,
R  ,312,MODST  ,1%B020K5-,20K5 1%      ,G4 ,3  , Bias til remote input
R  ,313,MODST  ,1B5%022K-,22K          ,G3 ,3  , Remote input filter
R  ,314,MODST  ,1A5%100E-,100E         ,G3 ,3  , MIDI in
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