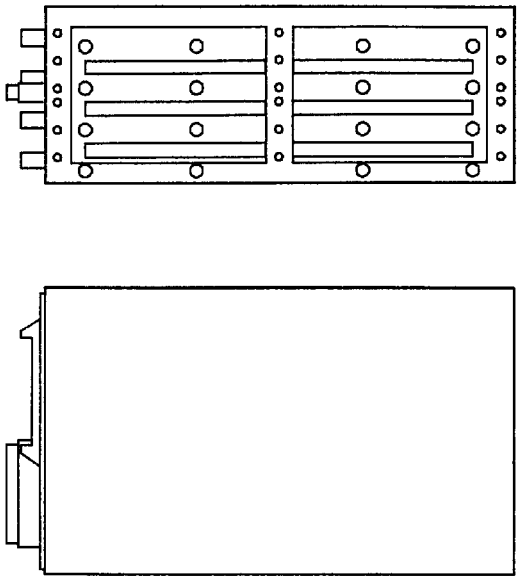
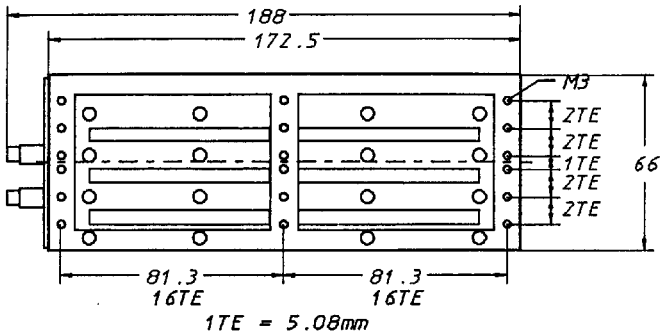
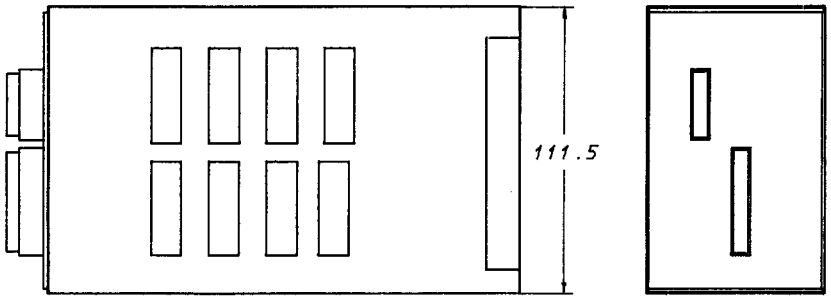
ANALOG – ZENTRALEINHEIT

MAßE WIE PROZESSOREINHEIT

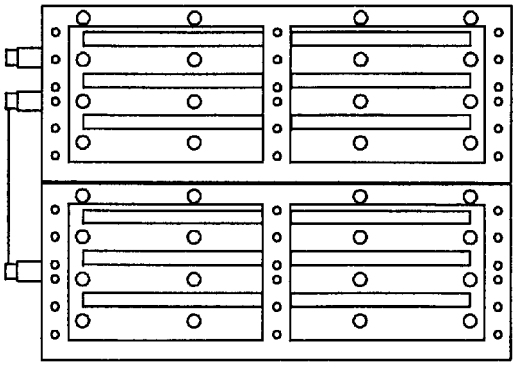


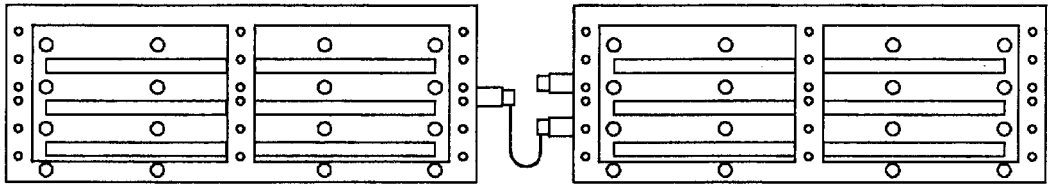
PROZESSOR – ZENTRALEINHEIT





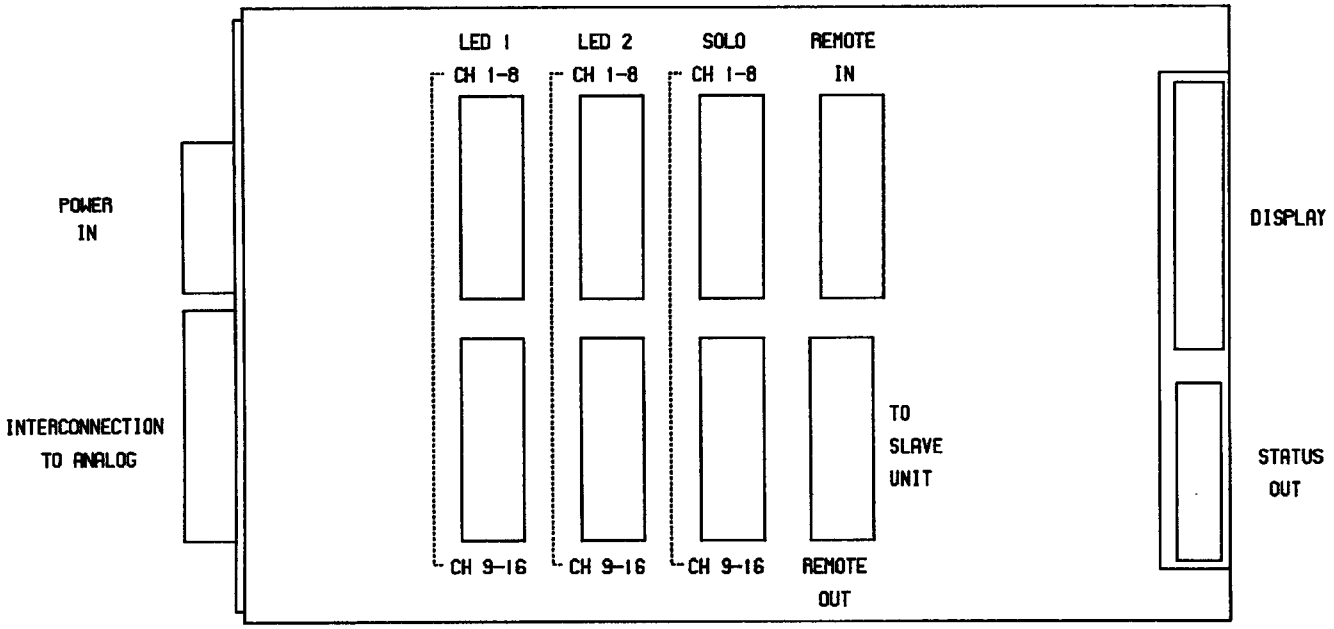
VARIABLE ANORDNUNG DER ANALOG-PROZESSOREINHEIT



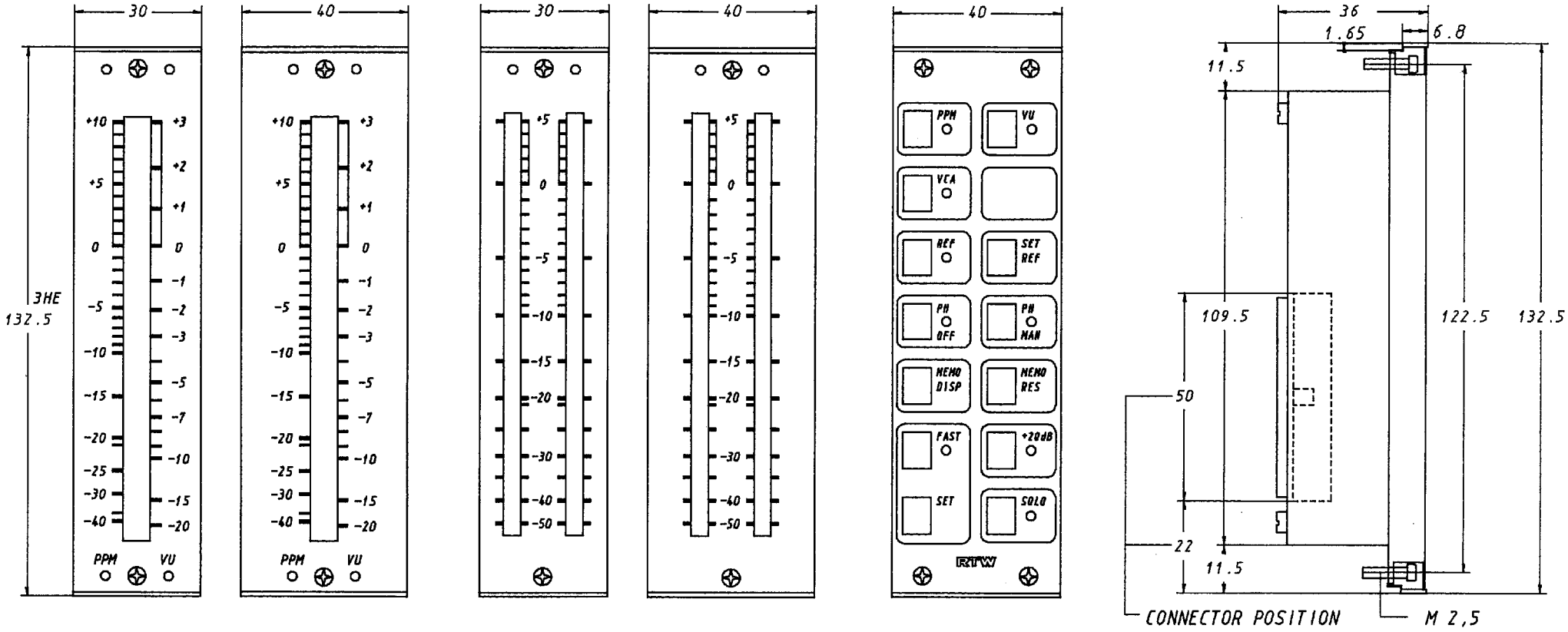


				Ident Nr.	Maßstab	Toleranz
					1140	
			Datum	Name	BAUGRUPPENTRÄGER	
		Bearb.	8.88	Bo.	8x EUROCARD 100 X 160	
		Gepr.				
		Norm.				
Zust.	Änderung	Datum	RTW		RADIO-TECHNISCHE WERKSTÄTTEN GMBH	Blatt

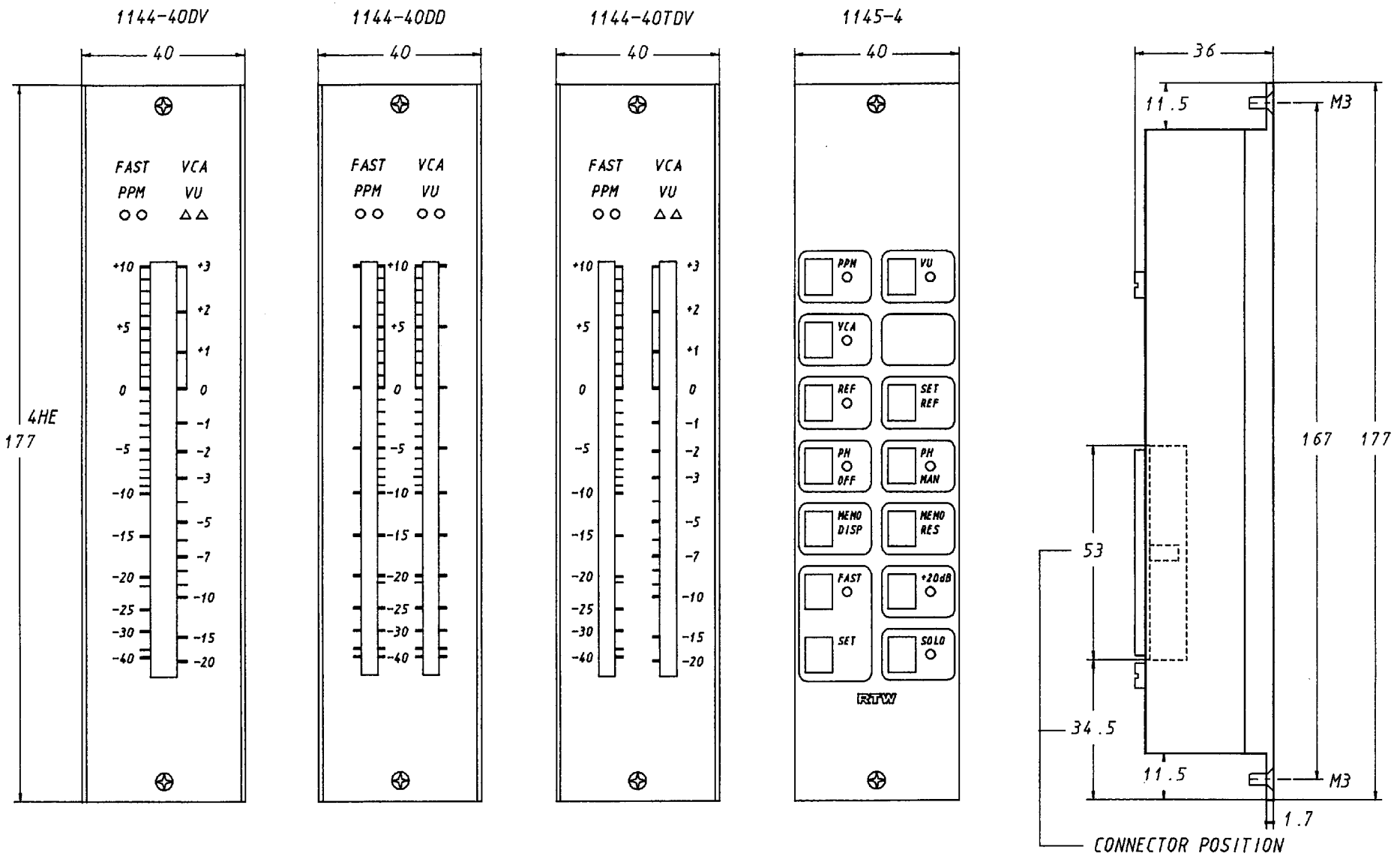
PROZESSOR - ZENTRALEINHEIT



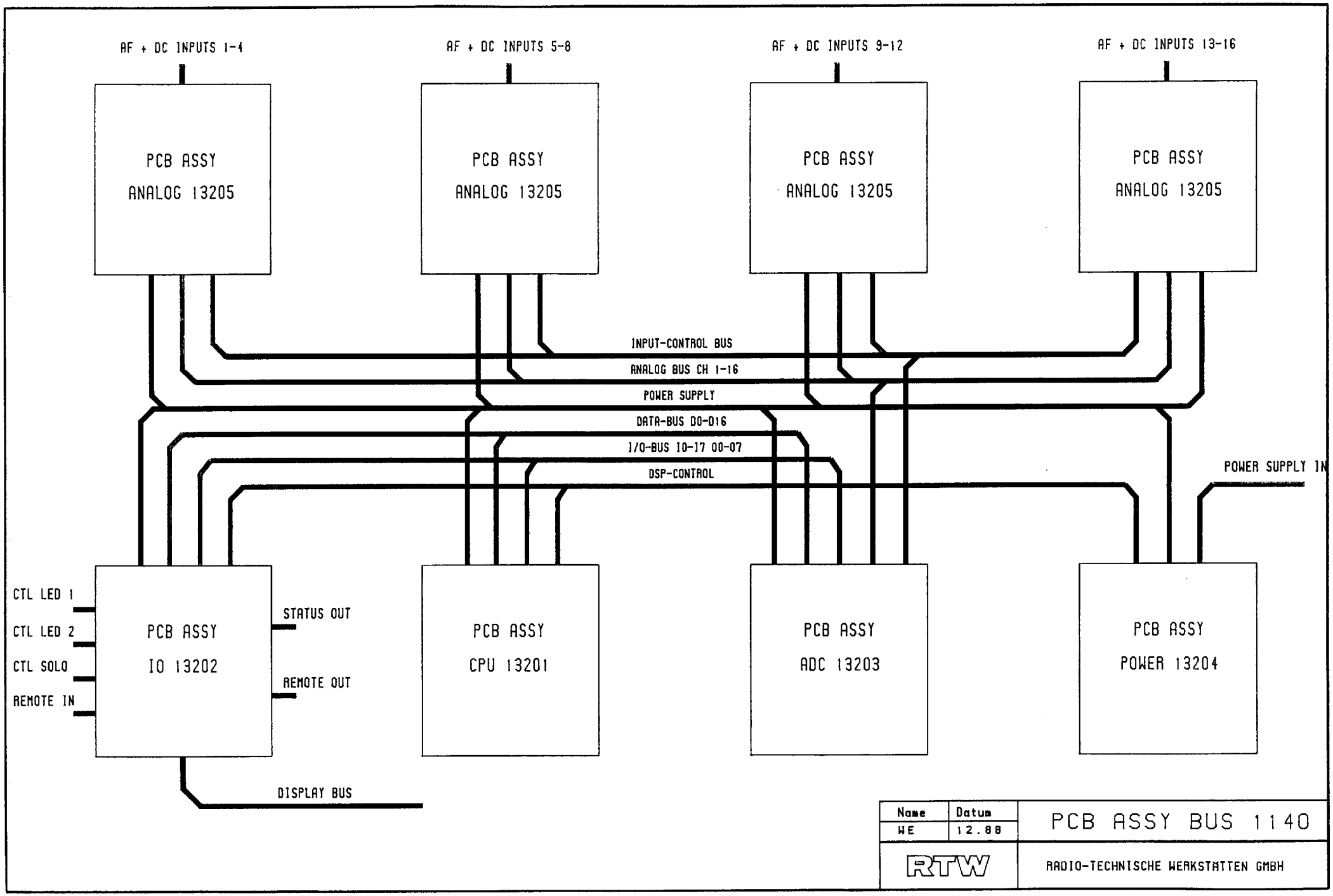
				Ident Nr.	Maßstab	Toleranz	
			Datum	Name	1140		
		Bearb					
		Gepr.					
		Norm.					
			RTW	RADIO-TECHNISCHE WERKSTATTEN GMBH		Blatt	
Zust.	Änderung	Datum					

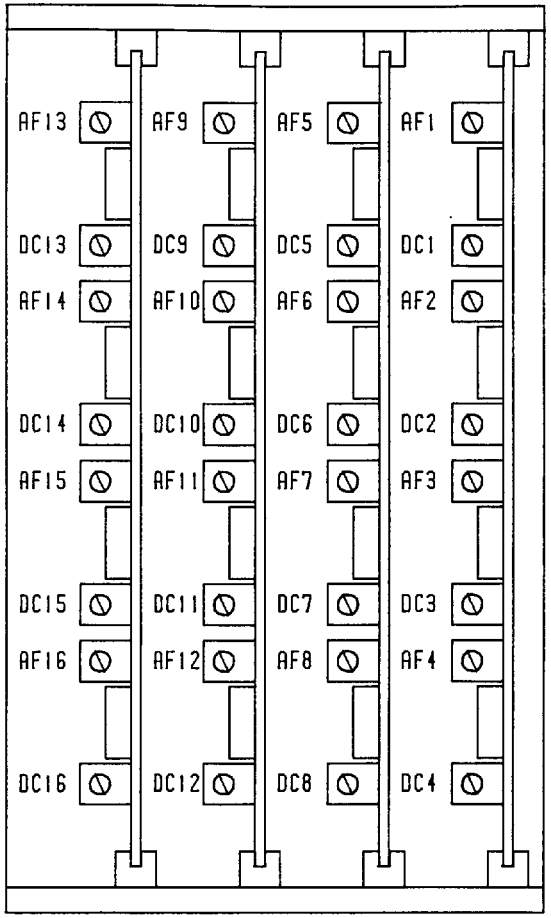


			Datum	Name	METERING SYSTEM 1140
		Bearb.			3HE - 132.5 MM
		Gepr.	04.89	Bo.	
		Norm.			
Zust.	Änderung	Datum	RTW	RADIO-TECHNISCHE WERKSTÄTTEN GMBH	Blatt



			Datum	Name	METERING SYSTEM 1140
		Bearb.			4HE - 177 MM
		Gepr.	04.89	Bo.	
		Norm.			
Zust.	Änderung	Datum	RTW	RADIO-TECHNISCHE WERKSTÄTTEN GMBH	Blatt

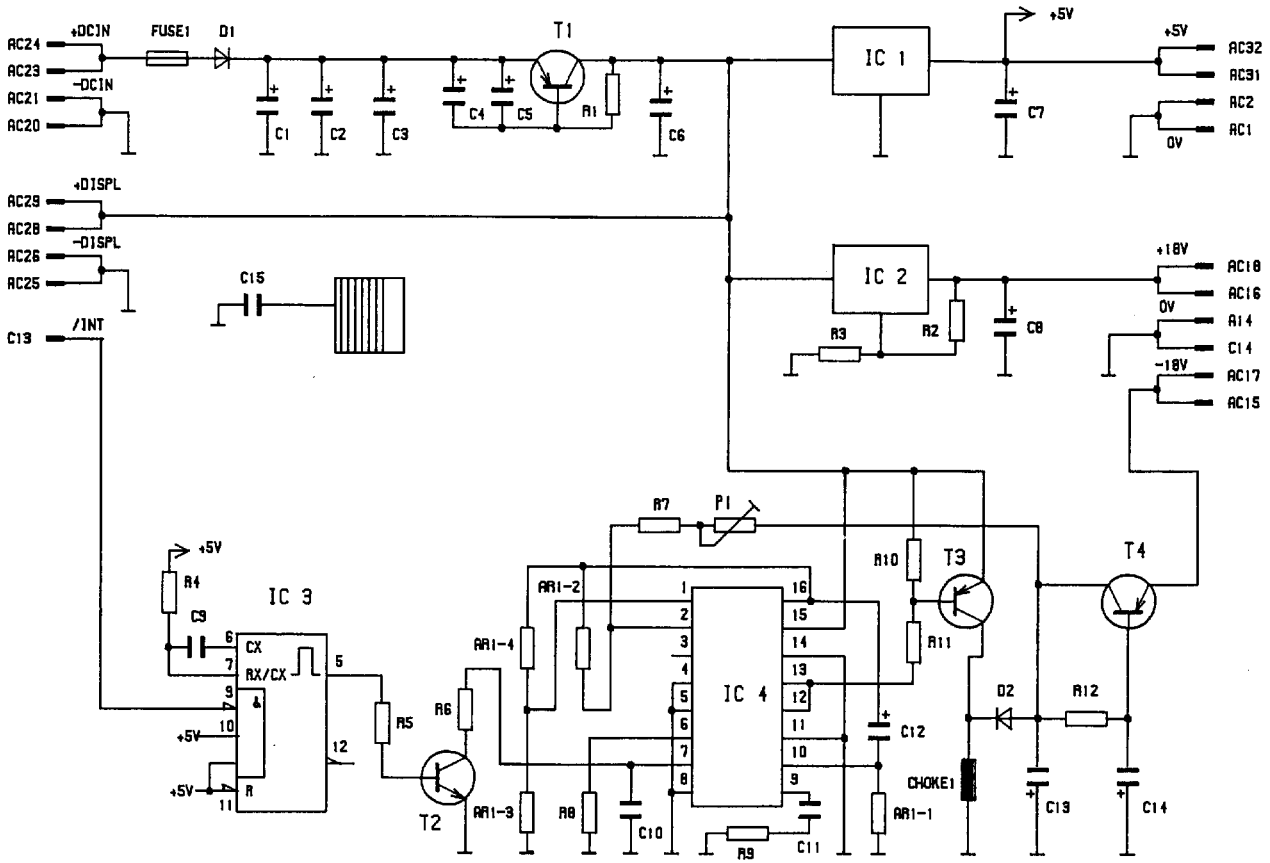

AF + DC INPUTS 1-4
AF + DC INPUTS 5-8
AF + DC INPUTS 9-12
AF + DC INPUTS 13-16
PCB ASSY
ANALOG 13205
PCB ASSY
ANALOG 13205
PCB ASSY
ANALOG 13205
PCB ASSY
ANALOG 13205
INPUT-CONTROL BUS
ANALOG BUS CH 1-16
POWER SUPPLY
DATA-BUS D0-D16
I/O-BUS I0-17 O0-07
DSP-CONTROL
POWER SUPPLY IN
CTL LED 1
CTL LED 2
CTL SOLO
REMOTE IN
PCB ASSY
IO 13202
STATUS OUT
REMOTE OUT
PCB ASSY
CPU 13201
PCB ASSY
ADC 13203
PCB ASSY
POWER 13204
DISPLAY BUS
Name
Datum
WE
12.88
PCB ASSY BUS 1140
RTW
RADIO-TECHNISCHE WERKSTATTEN GMBH



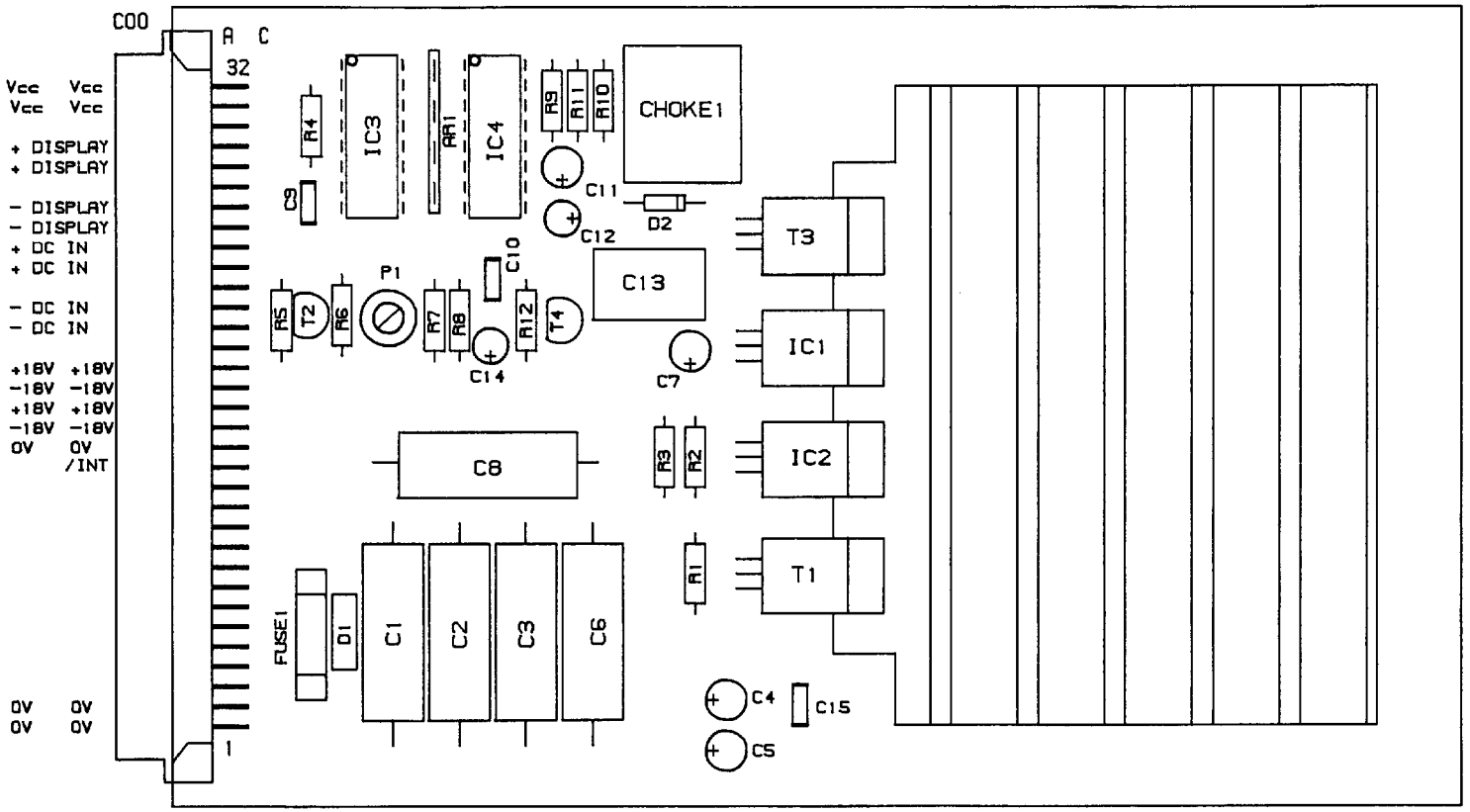
AF 1-16 = LEVEL ADJUSTMENT FOR PPM + VU - DISPLAY

DC 1-16 = DC INPUT ADJUSTMENT FOR DC - DISPLAY

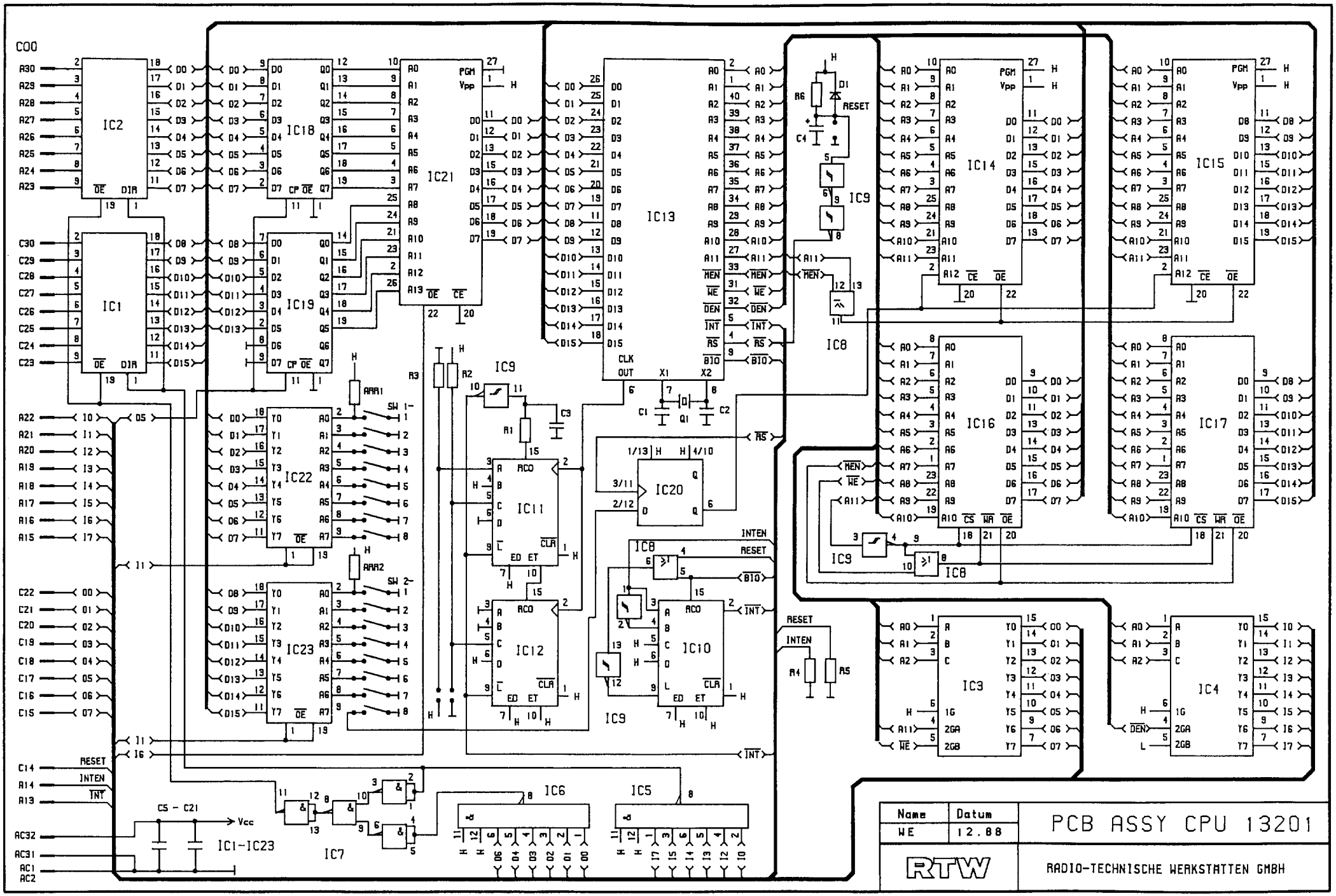
Name	Datum	INPUT ADJUSTMENTS
WE	12.88	
RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH

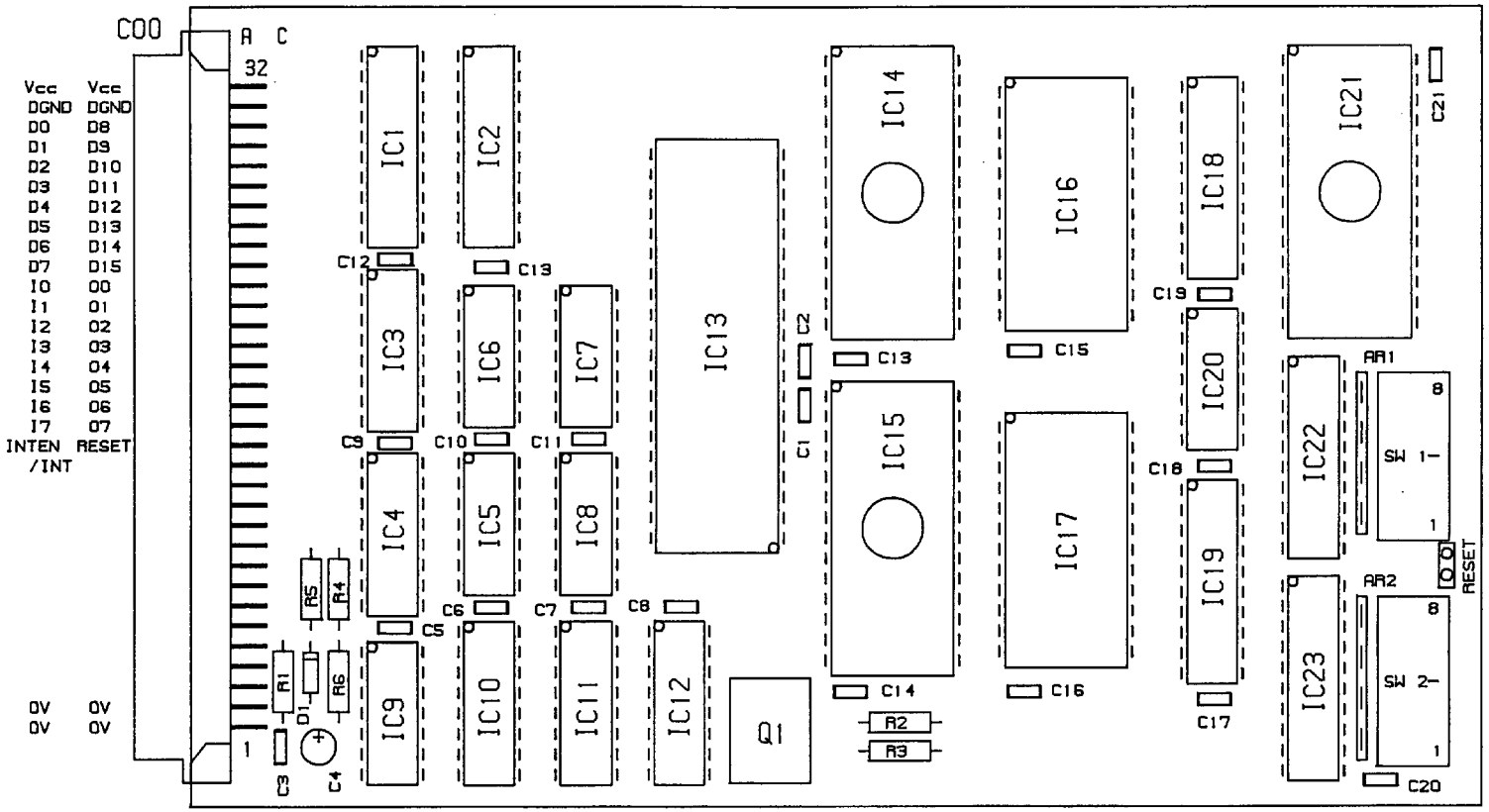


Name	Datum	PCB ASSY POWER 13204
WE	12.88	
RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH

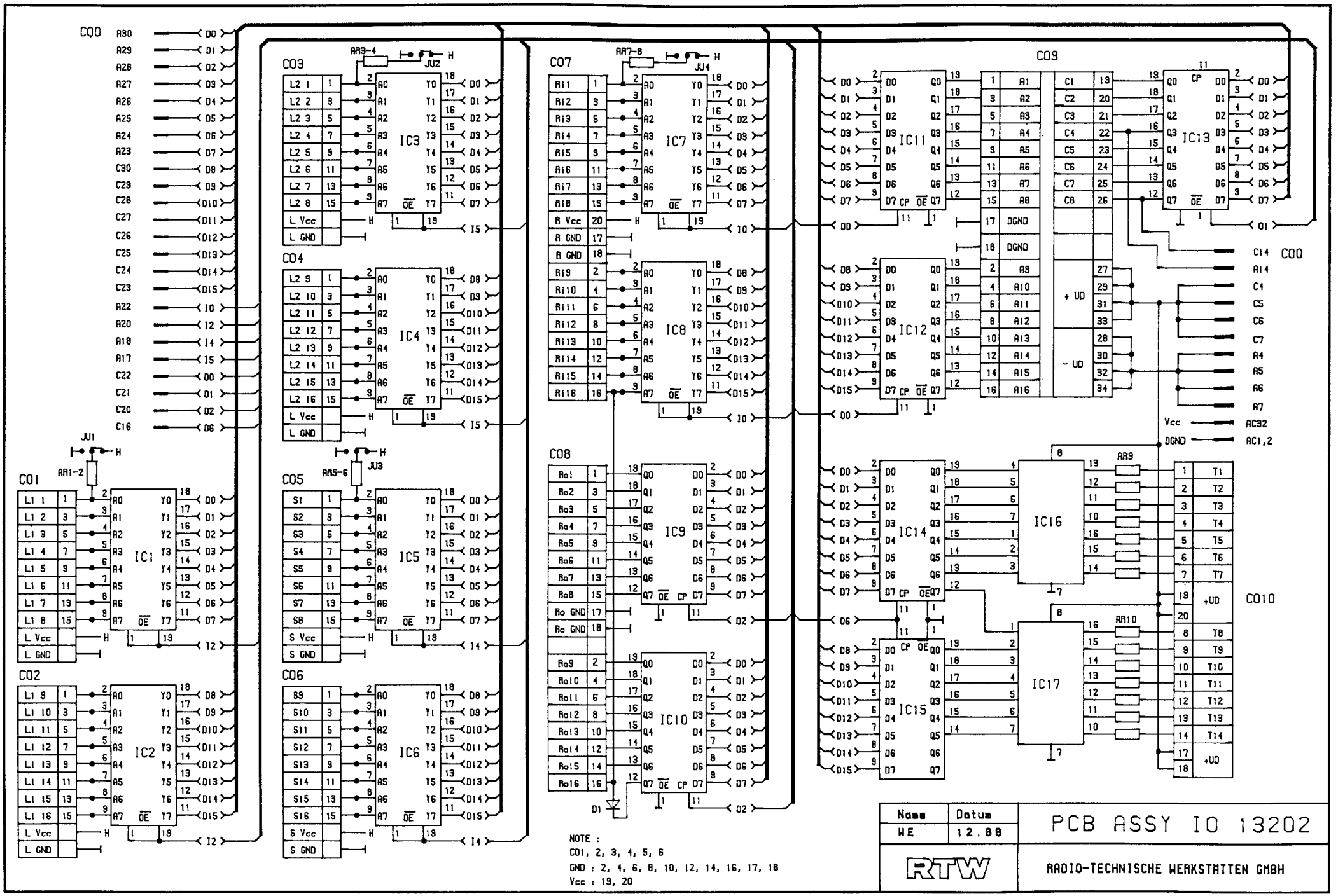


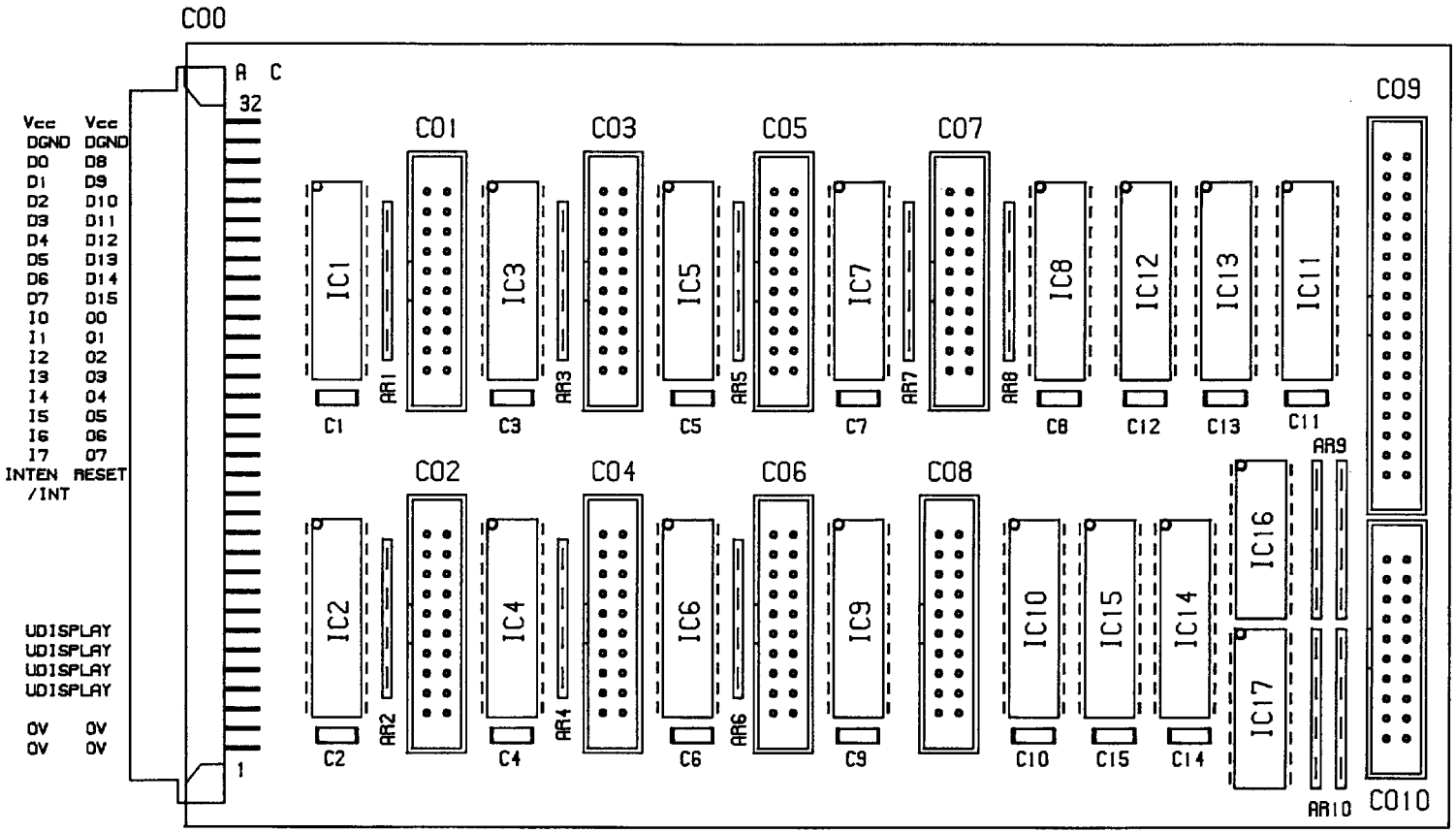
Name	Datum	PCB ADC POWER 13204
WE	12.88	
RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH


C00
IC2
IC18
IC21
IC13
IC14
IC15
IC1
IC19
IC22
IC23
IC16
IC17
IC3
IC4
IC11
IC12
IC10
IC20
IC8
IC9
IC6
IC5
IC7
IC1-IC23
C5 - C21
Vcc
RESET
INTEN
INT
Name
Datum
WE
12.88
PCB ASSY CPU 13201
RTW
RADIO-TECHNISCHE WERKSTATTEN GMBH

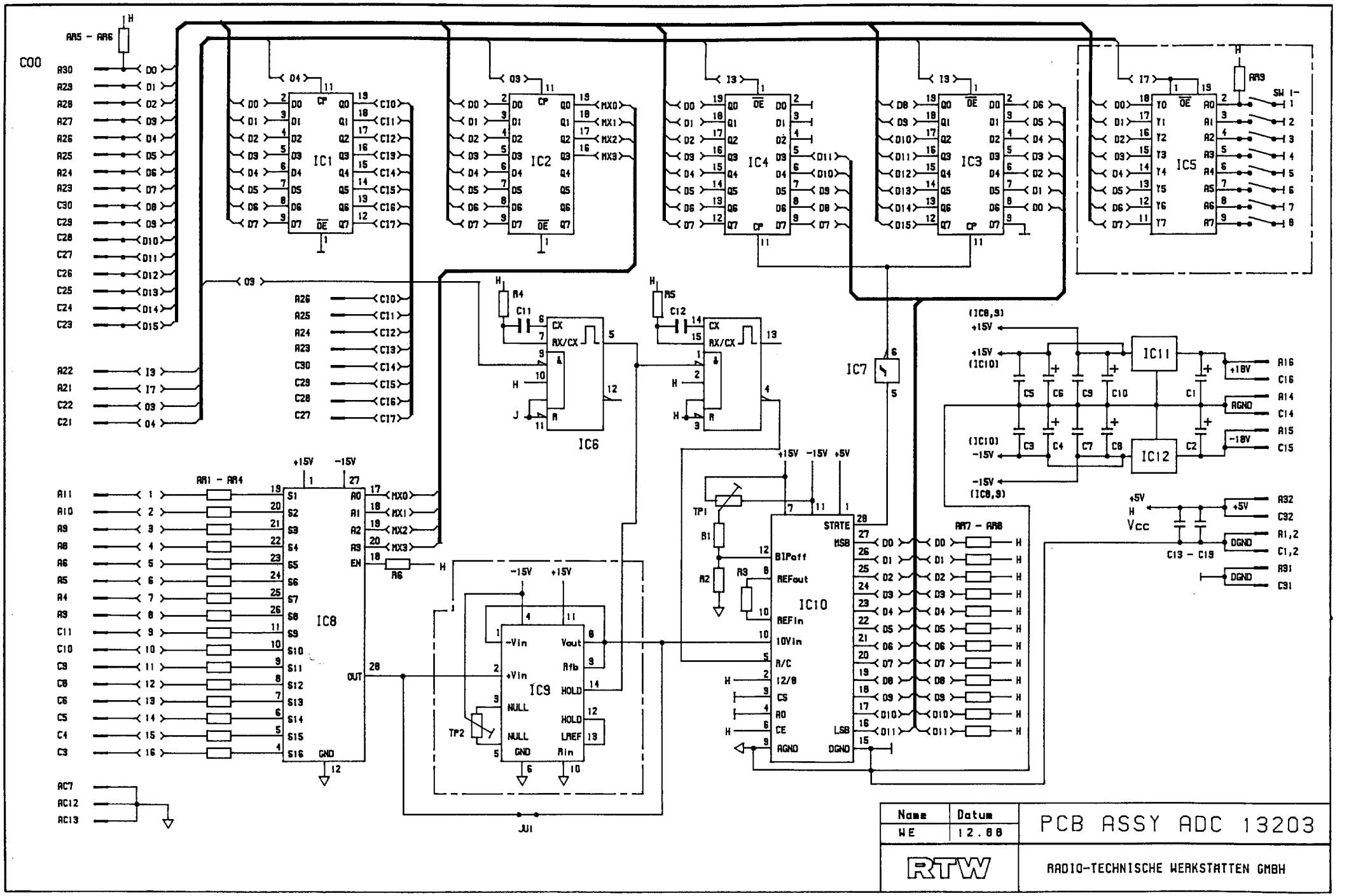


Name	Datum	PCB ASSY CPU 13201
WE	12.88	
RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH

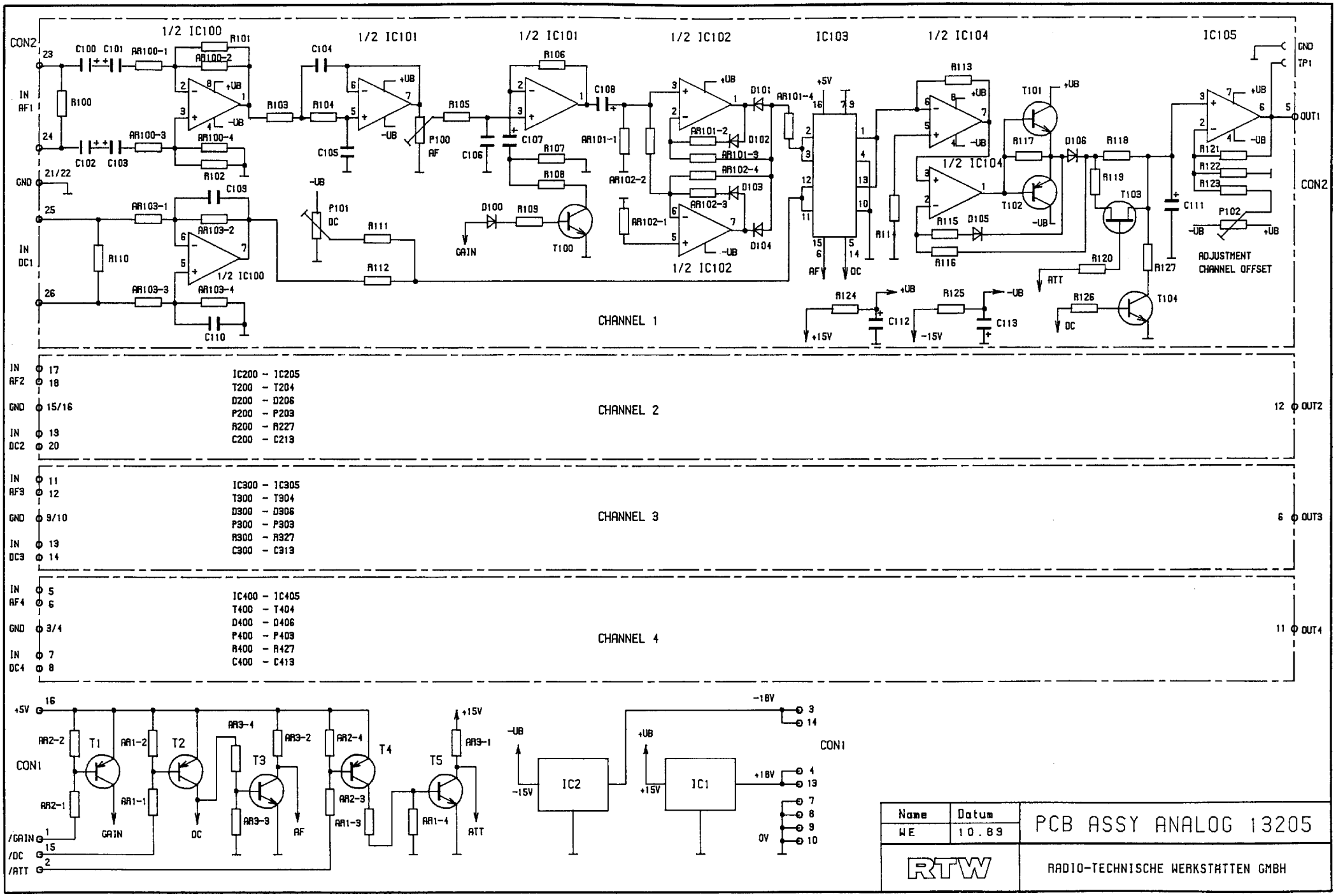

CO0
CO1
CO2
CO3
CO4
CO5
CO6
CO7
CO8
CO9
CO10
IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC8
IC9
IC10
IC11
IC12
IC13
IC14
IC15
IC16
IC17
JU1
JU2
JU3
JU4
AR1-2
AR3-4
AR5-6
AR7-8
AR9
AR10
+UD
-UD
DGND
Vcc
NOTE :
CO1, 2, 3, 4, 5, 6
GND : 2, 4, 6, 8, 10, 12, 14, 16, 17, 18
Vcc : 19, 20
Name
Datum
WE
12.88
PCB ASSY IO 13202
RTW
RADIO-TECHNISCHE WERKSTATTEN GMBH

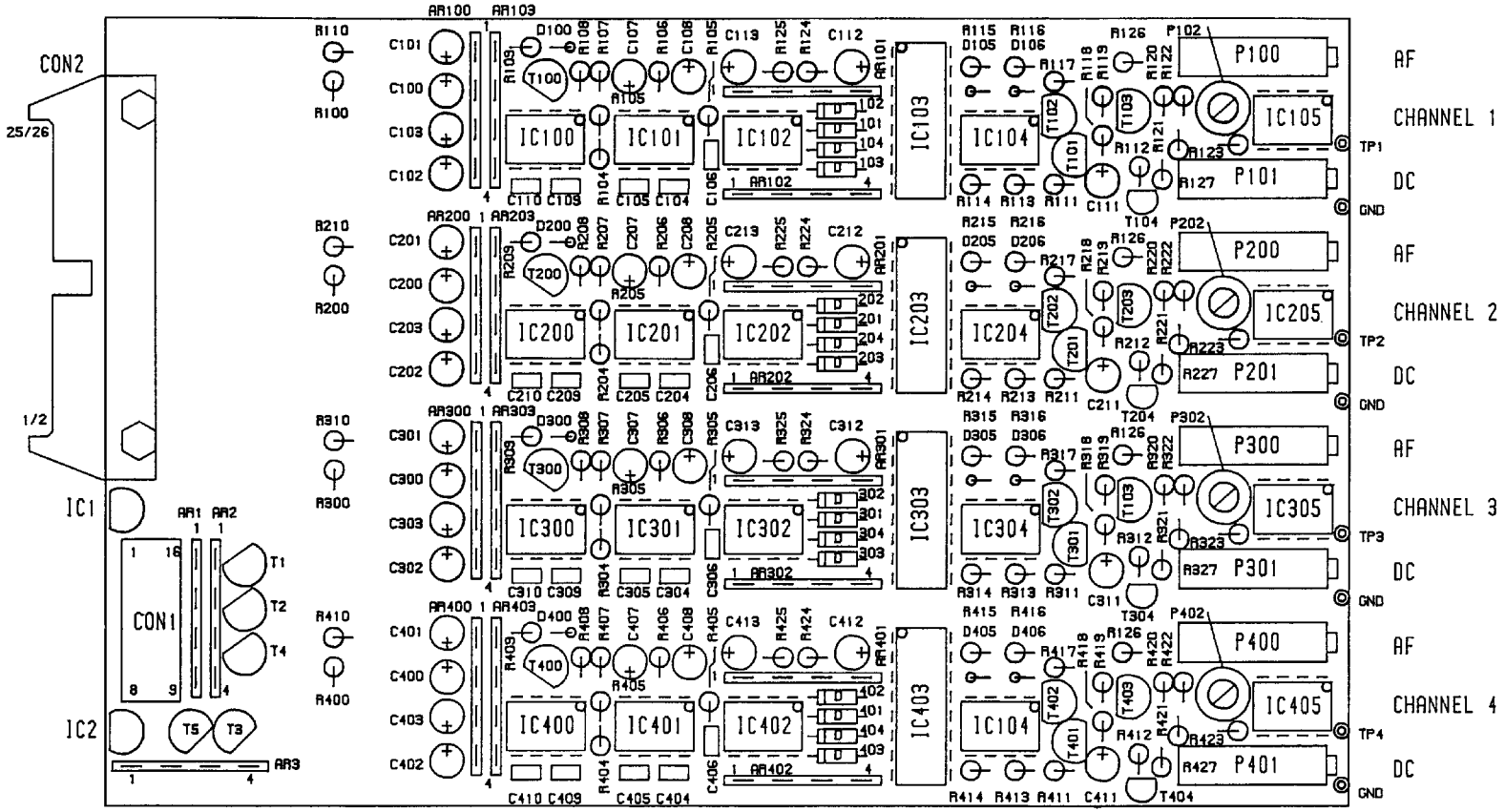


Name	Datum	PCB ASSY IO 13202
WE	12.88	
RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH



Name	Datum	PCB ASSY ADC 13203
WE	12.88	
RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH


1/2 IC100
1/2 IC101
1/2 IC101
1/2 IC102
IC103
1/2 IC104
IC105
CON2
IN AF1
IN DC1
GND
R100
R101
R102
R103
R104
R105
R106
R107
R108
R109
R110
R111
R112
C100 C101
C102 C103
C104
C105
C106
C107
C108
C109
C110
AR100-1
AR100-2
AR100-3
AR100-4
AR101-1
AR101-2
AR101-3
AR101-4
AR102-1
AR102-2
AR102-3
AR102-4
AR103-1
AR103-2
AR103-3
AR103-4
P100 AF
P101 DC
D100
D101
D102
D103
D104
D105
D106
T100
T101
T102
T103
T104
R113
R114
R115
R116
R117
R118
R119
R120
R121
R122
R123
R124
R125
R126
R127
C111
C112
C113
P102
ADJUSTMENT CHANNEL OFFSET
GAIN
ATT
AF
DC
+UB
-UB
+5V
+15V
-15V
GND
TP1
OUT1
CHANNEL 1
IN AF2
GND
IN DC2
IC200 - IC205
T200 - T204
D200 - D206
P200 - P203
R200 - R227
C200 - C213
CHANNEL 2
OUT2
IN AF3
GND
IN DC3
IC300 - IC305
T300 - T304
D300 - D306
P300 - P303
R300 - R327
C300 - C313
CHANNEL 3
OUT3
IN AF4
GND
IN DC4
IC400 - IC405
T400 - T404
D400 - D406
P400 - P403
R400 - R427
C400 - C413
CHANNEL 4
OUT4
CON1
/GAIN
/DC
/ATT
IC1
IC2
0V
-18V
+18V
Name
Datum
WE
10.89
PCB ASSY ANALOG 13205
RADIO-TECHNISCHE WERKSTATTEN GMBH

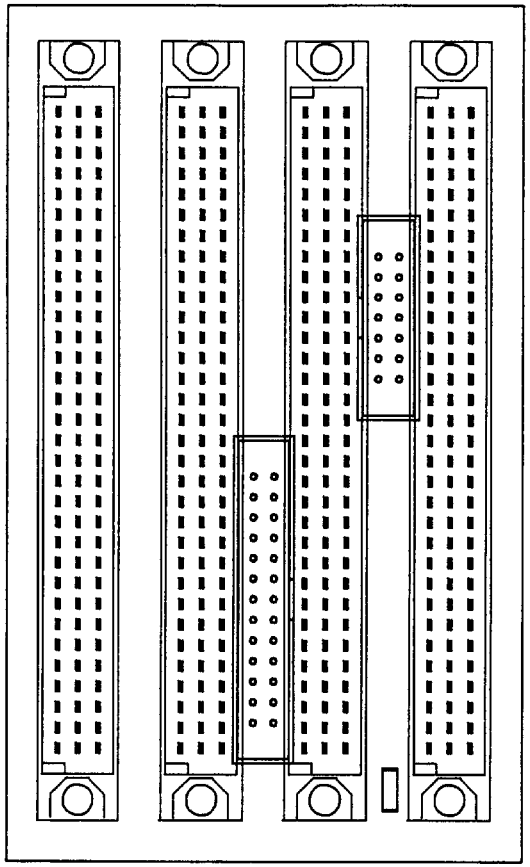


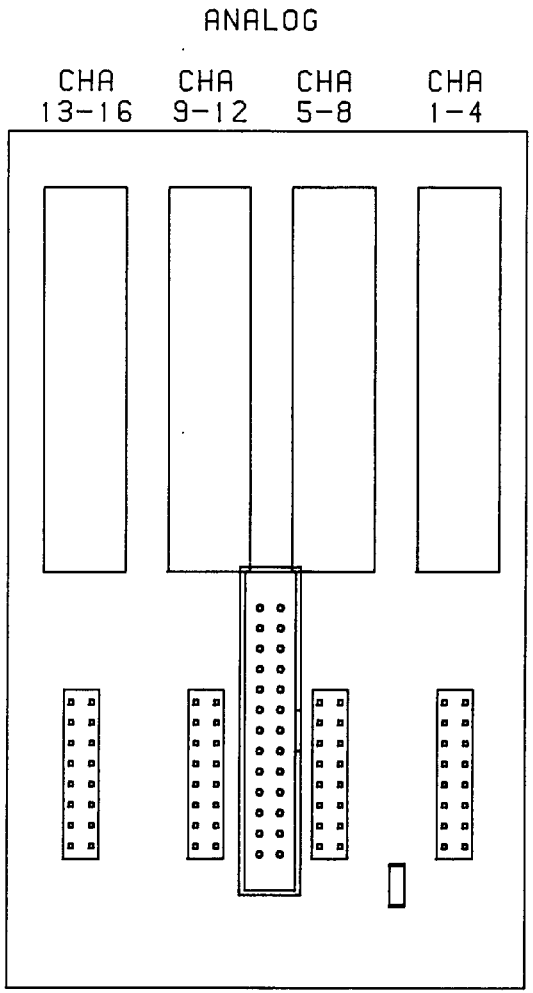
P100, 200, 300, 400 ADJUST AF INPUT FOR PPM + VU

P101, 201, 301, 401 ADJUST DC INPUT FOR DC DISPLAY

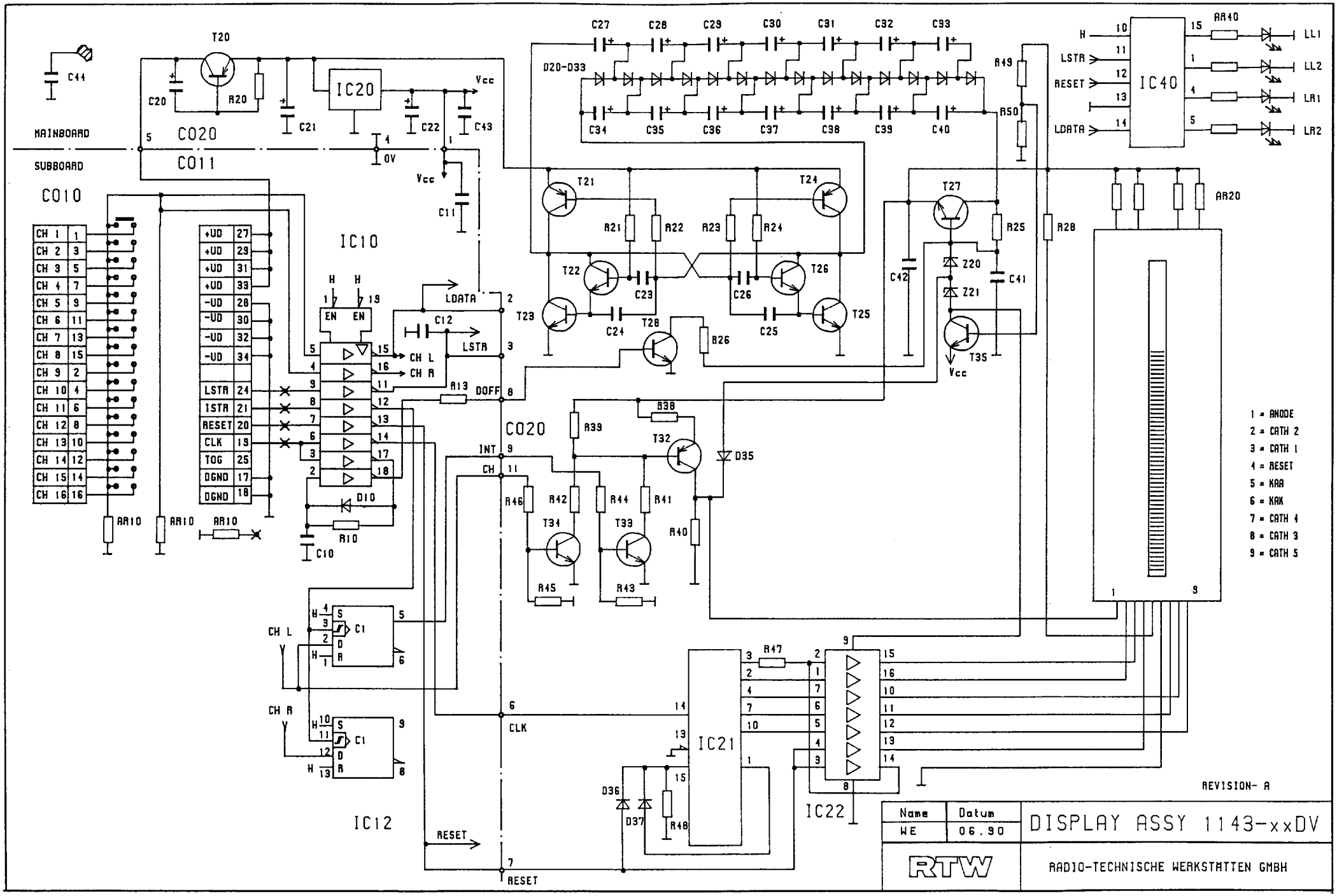
P102, 202, 302, 402 ADJUST OFFSET CHANNEL

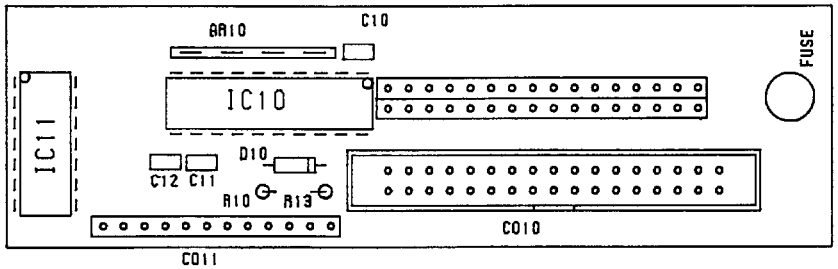
Name	Datum	PCB ASSY ANALOG 13205
WE	10.89	
RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH

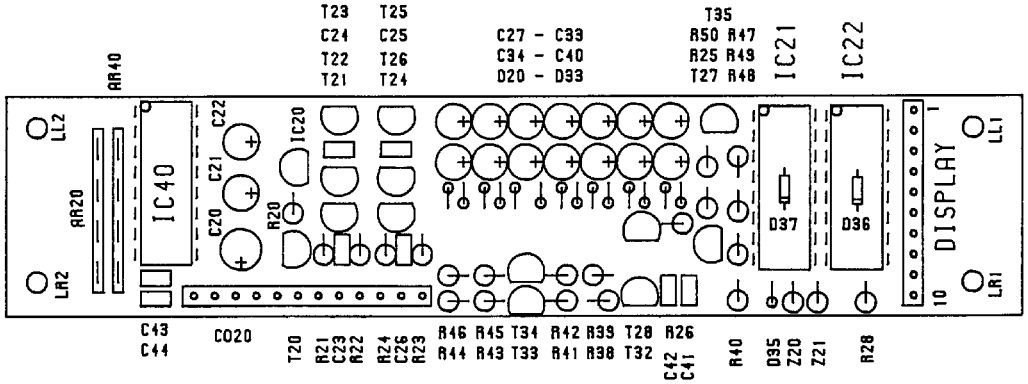




Name	Datum	PCB ASSY BUS 1140
WE	12.88	
RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH

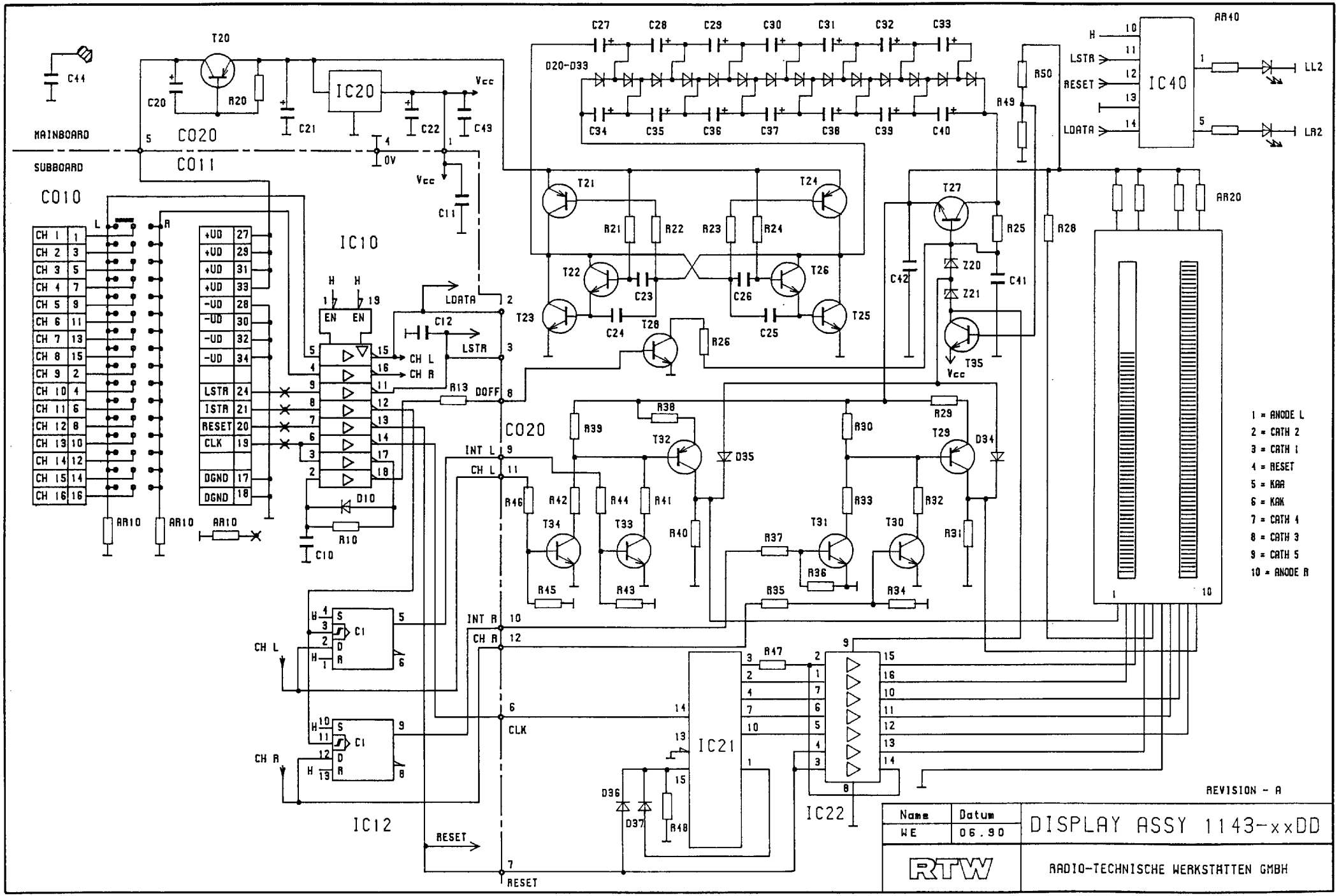

MAINBOARD
SUBBOARD
C020
C011
C010
IC10
IC12
IC20
IC21
IC22
IC40
T20
T21
T22
T23
T24
T25
T26
T27
T28
T32
T33
T34
T35
D10
D20-D33
D35
D36
D37
C10
C11
C12
C20
C21
C22
C23
C24
C25
C26
C27
C28
C29
C30
C31
C32
C33
C34
C35
C36
C37
C38
C39
C40
C41
C42
C43
C44
R10
R13
R20
R21
R22
R23
R24
R25
R26
R28
R38
R39
R40
R41
R42
R43
R44
R45
R46
R47
R48
R49
R50
Z20
Z21
AR10
AR20
AR40
CH L
CH R
LSTR
LDATA
RESET
CLK
INT
DOFF
1 = ANODE
2 = CATH 2
3 = CATH 1
4 = RESET
5 = KAA
6 = KAK
7 = CATH 4
8 = CATH 3
9 = CATH 5
REVISION- A
Name
Datum
WE
06.90
DISPLAY ASSY 1143-xxDV
RTW
RADIO-TECHNISCHE WERKSTATTEN GMBH

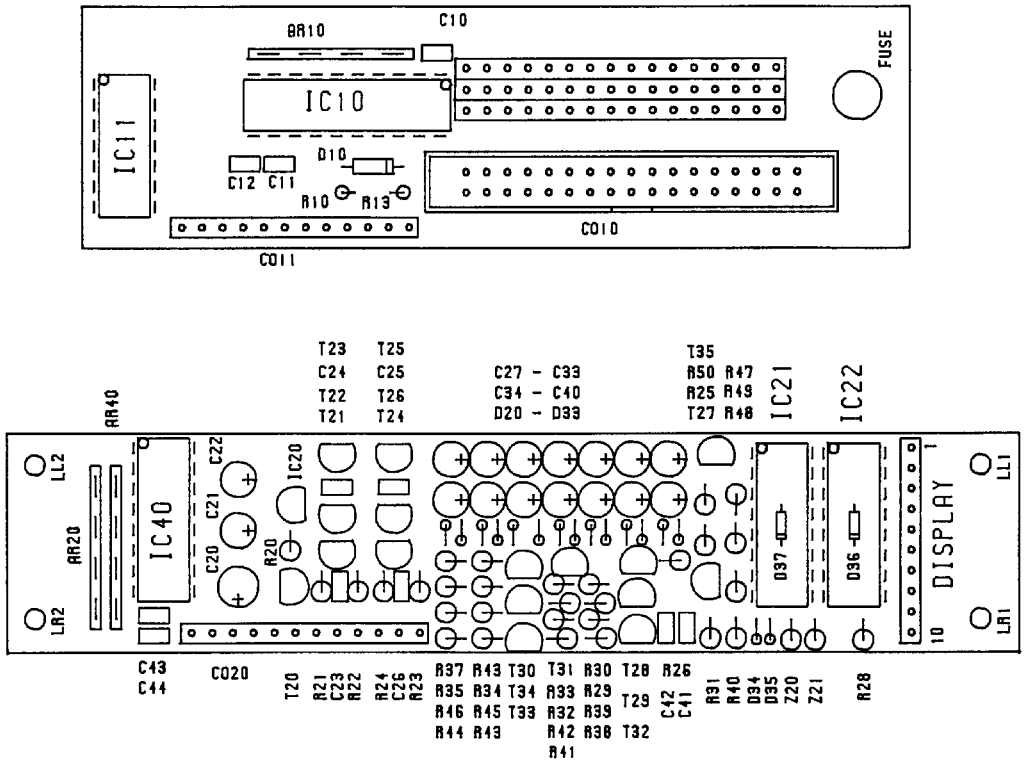




REVISION - A

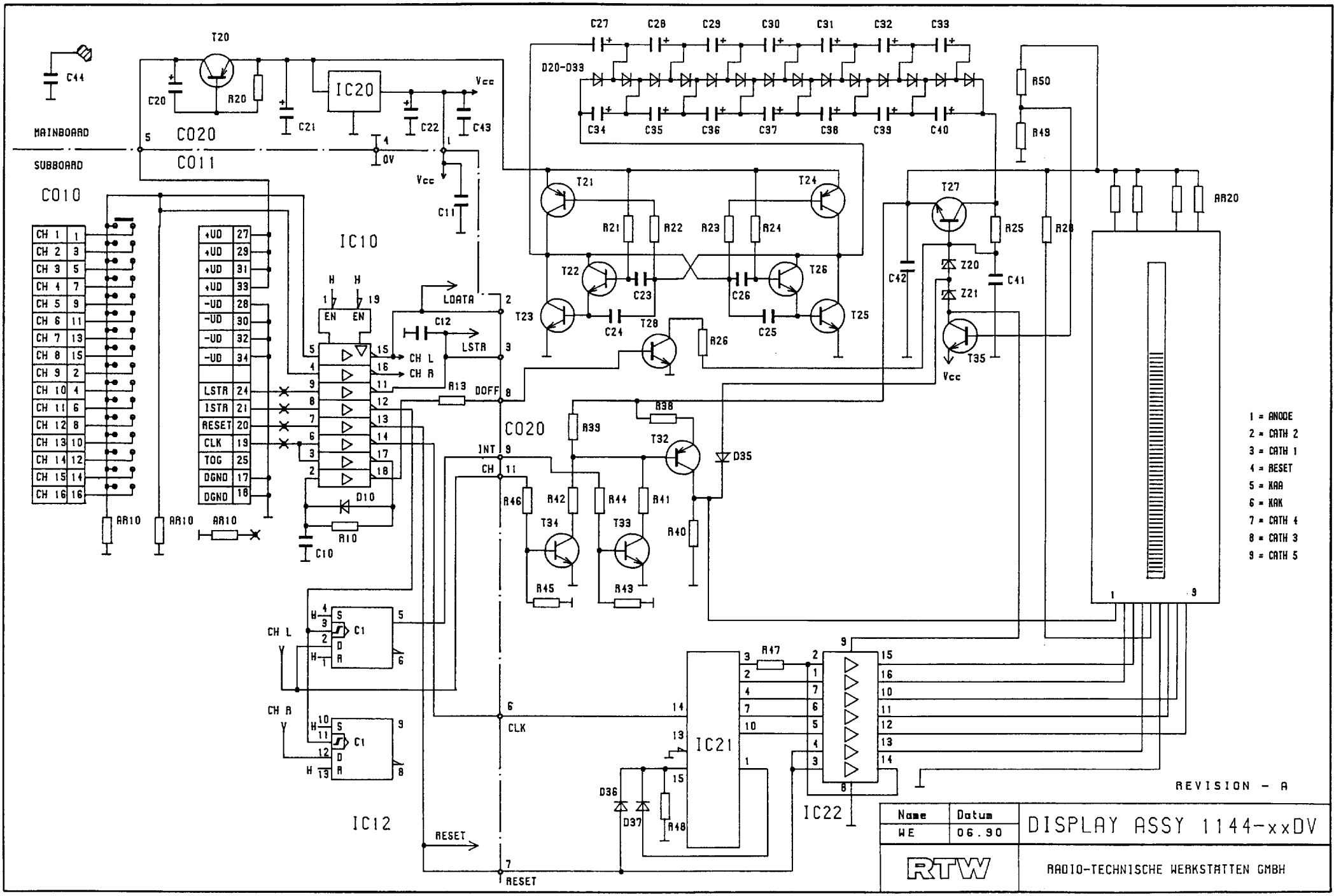
Name	Datum	PCB DISPLAY 1143xxDV
WE	06.90	
RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH

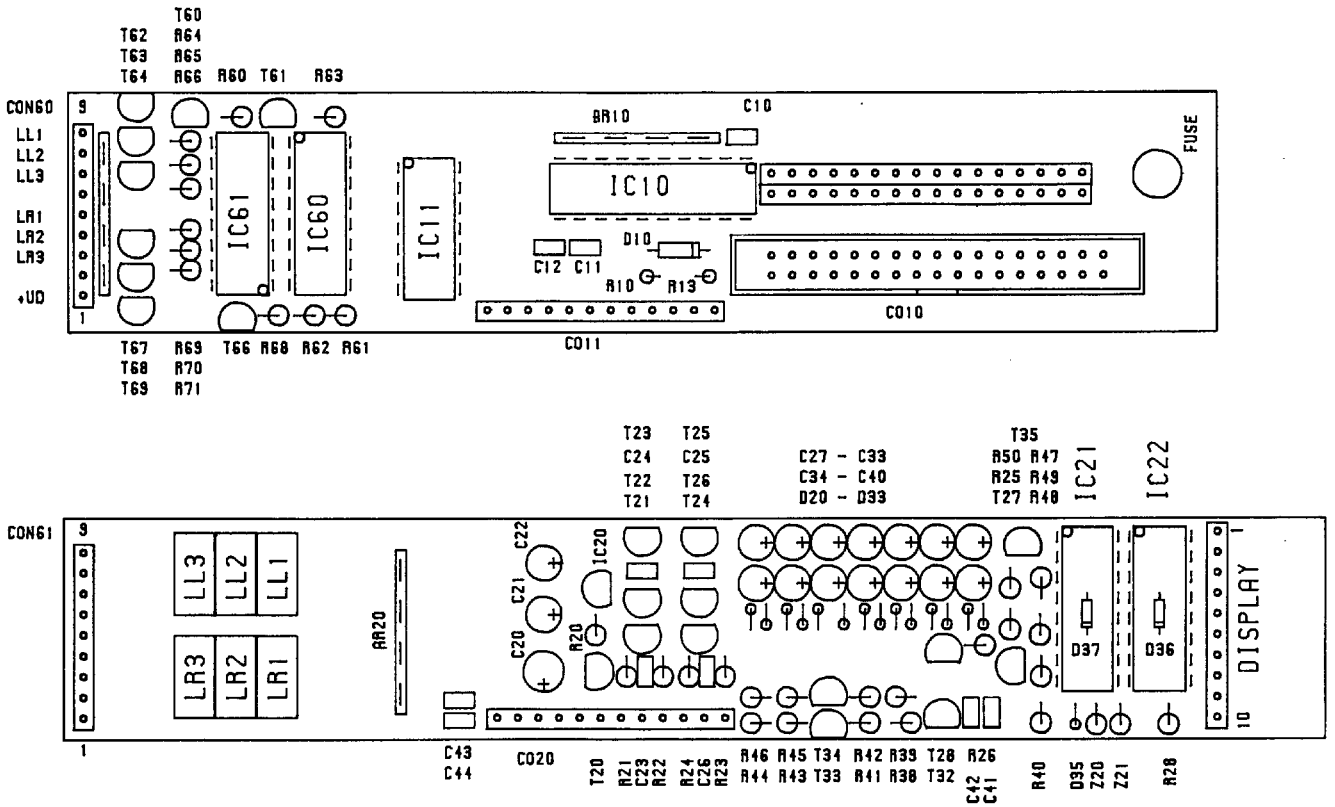

MAINBOARD
SUBBOARD
C020
C011
C010
IC10
IC12
IC20
IC21
IC22
IC40
AR10
AR20
AR40
T20
T21
T22
T23
T24
T25
T26
T27
T28
T29
T30
T31
T32
T33
T34
T35
D10
D20-D33
D34
D35
D36
D37
Z20
Z21
Vcc
0V
LDATA
LSTR
RESET
CLK
DOFF
INT L
INT R
CH L
CH R
DGND
1 = ANODE L
2 = CATH 2
3 = CATH 1
4 = RESET
5 = KAA
6 = KAK
7 = CATH 4
8 = CATH 3
9 = CATH 5
10 = ANODE R
REVISION - A
Name
Datum
WE
06.90
DISPLAY ASSY 1143-xxDD
RADIO-TECHNISCHE WERKSTATTEN GMBH



REVISION - A

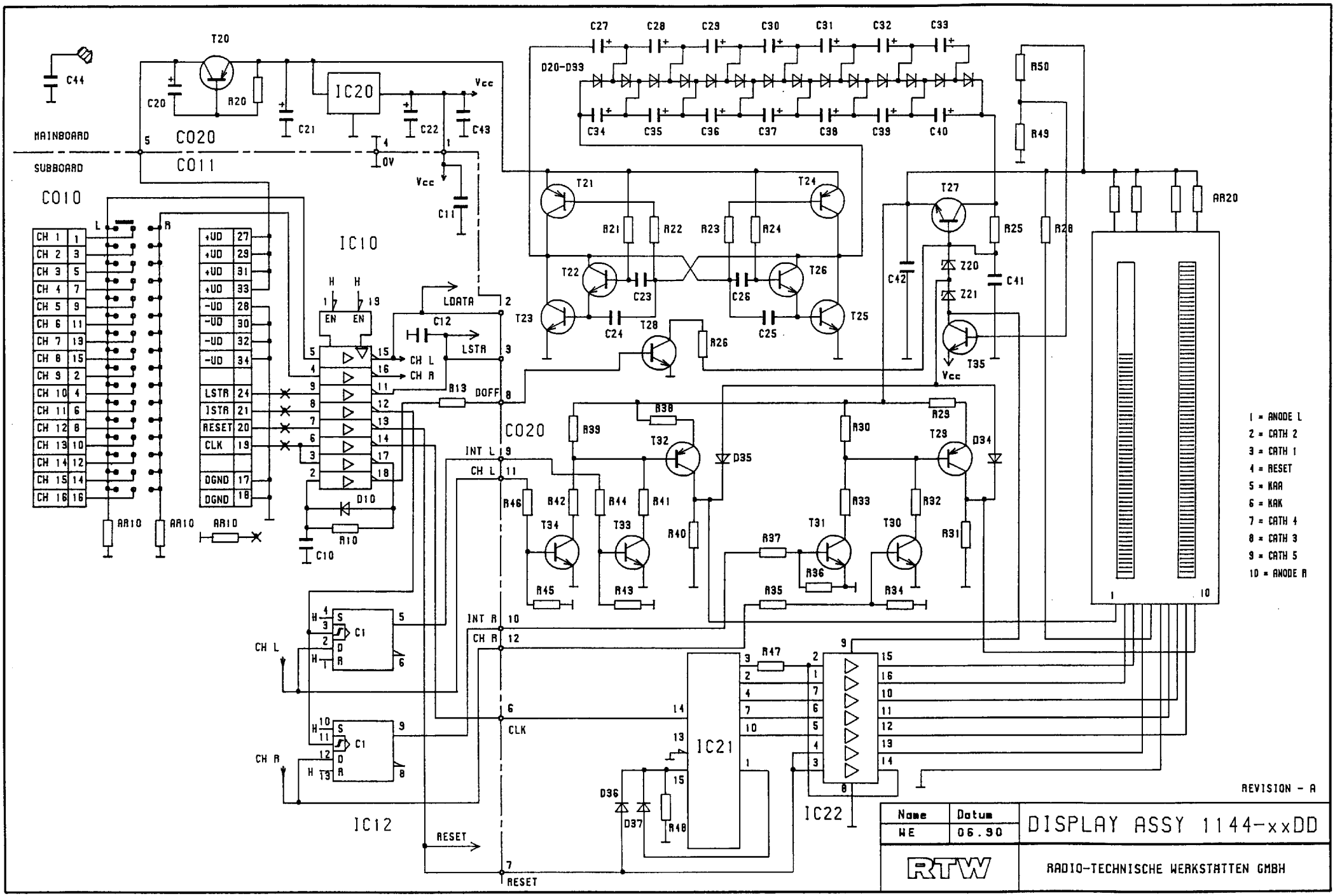
Name	Datum	PCB DISPLAY 1143xxDD
WE	06.90	
RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH

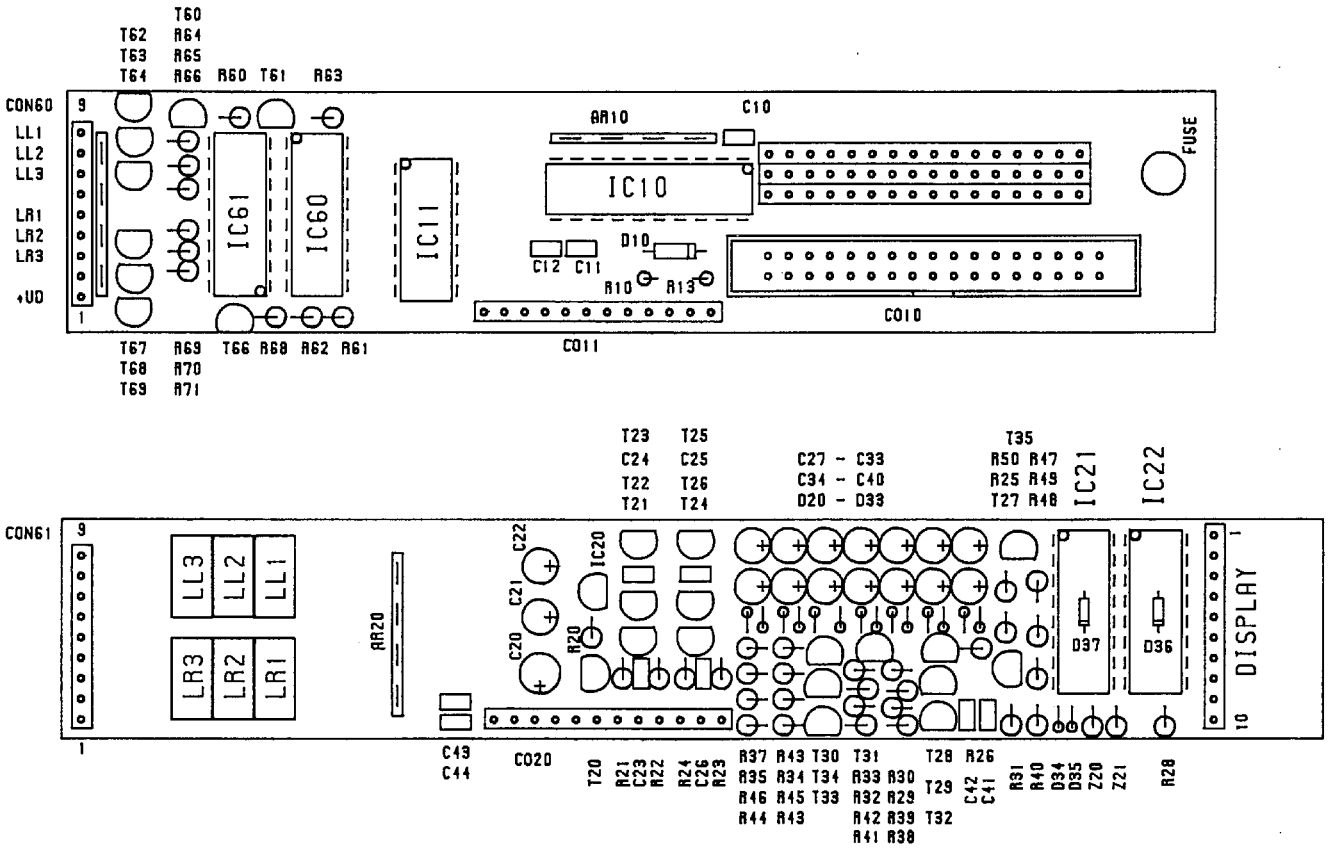

MAINBOARD
SUBBOARD
C020
C011
C010
T20
C20
R20
C21
IC20
C22
C43
Vcc
0V
C11
C44
IC10
IC12
IC21
IC22
C020
D20-D33
C27
C28
C29
C30
C31
C32
C33
C34
C35
C36
C37
C38
C39
C40
R50
R49
T21
T24
T27
R21
R22
R23
R24
R25
R28
AR20
T22
T26
C23
C26
C42
C41
Z20
Z21
T23
T25
C24
C25
T28
R26
T35
R13
DOFF
LOATA
LSTR
C12
CH L
CH R
R38
R39
T32
D35
INT
CH
R46
R42
R44
R41
T34
T33
R40
R45
R43
D10
R10
C10
AR10
CLK
RESET
R47
D36
D37
R48
1 = ANODE
2 = CATH 2
3 = CATH 1
4 = RESET
5 = KAA
6 = KAK
7 = CATH 4
8 = CATH 3
9 = CATH 5
REVISION - A
Name
Datum
WE
06.90
DISPLAY ASSY 1144-xxDV
RTW
RADIO-TECHNISCHE WERKSTATTEN GMBH



REVISION - A

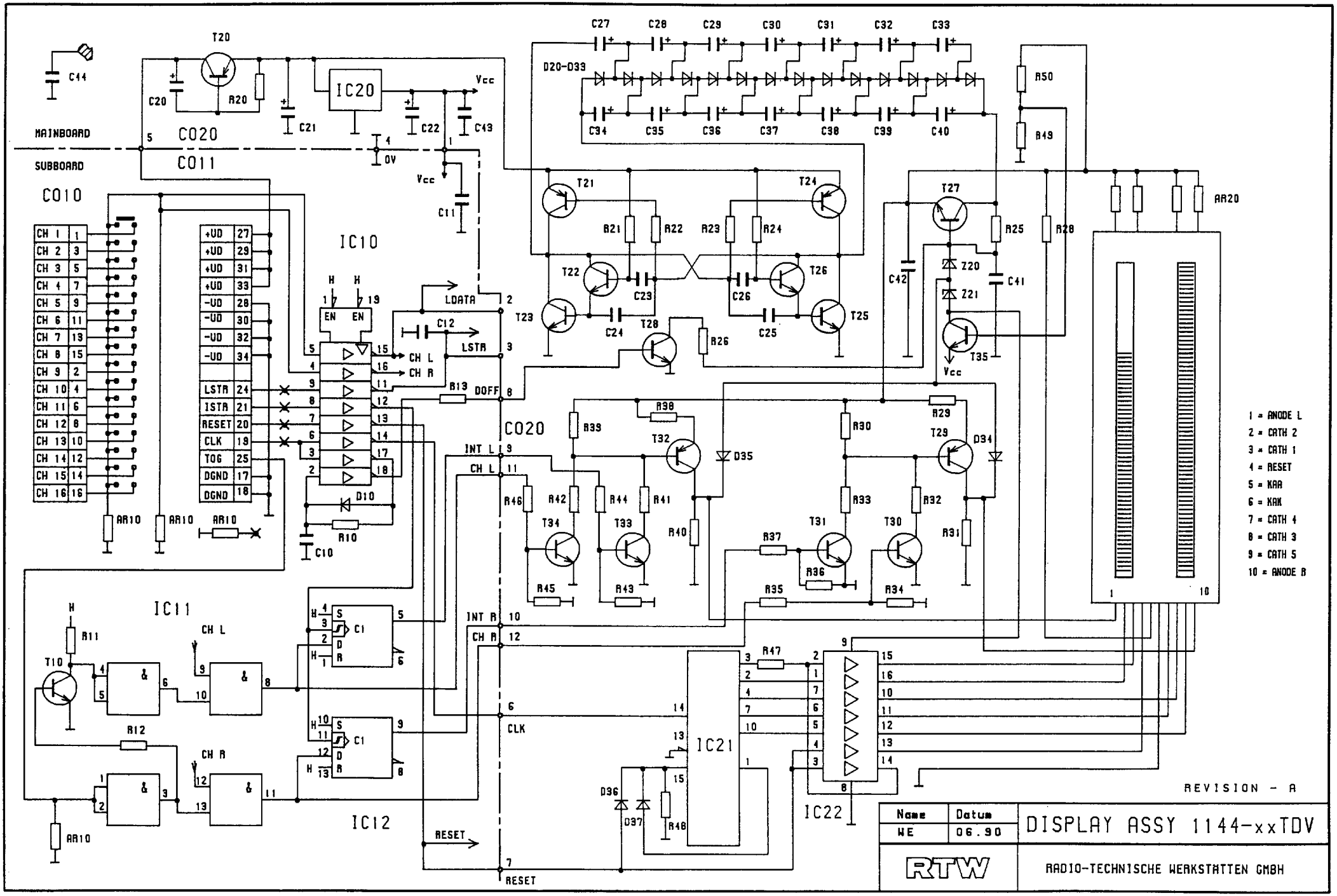
Name	Datum	PCB DISPLAY 1144-xxDV
WE	06.90	
RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH

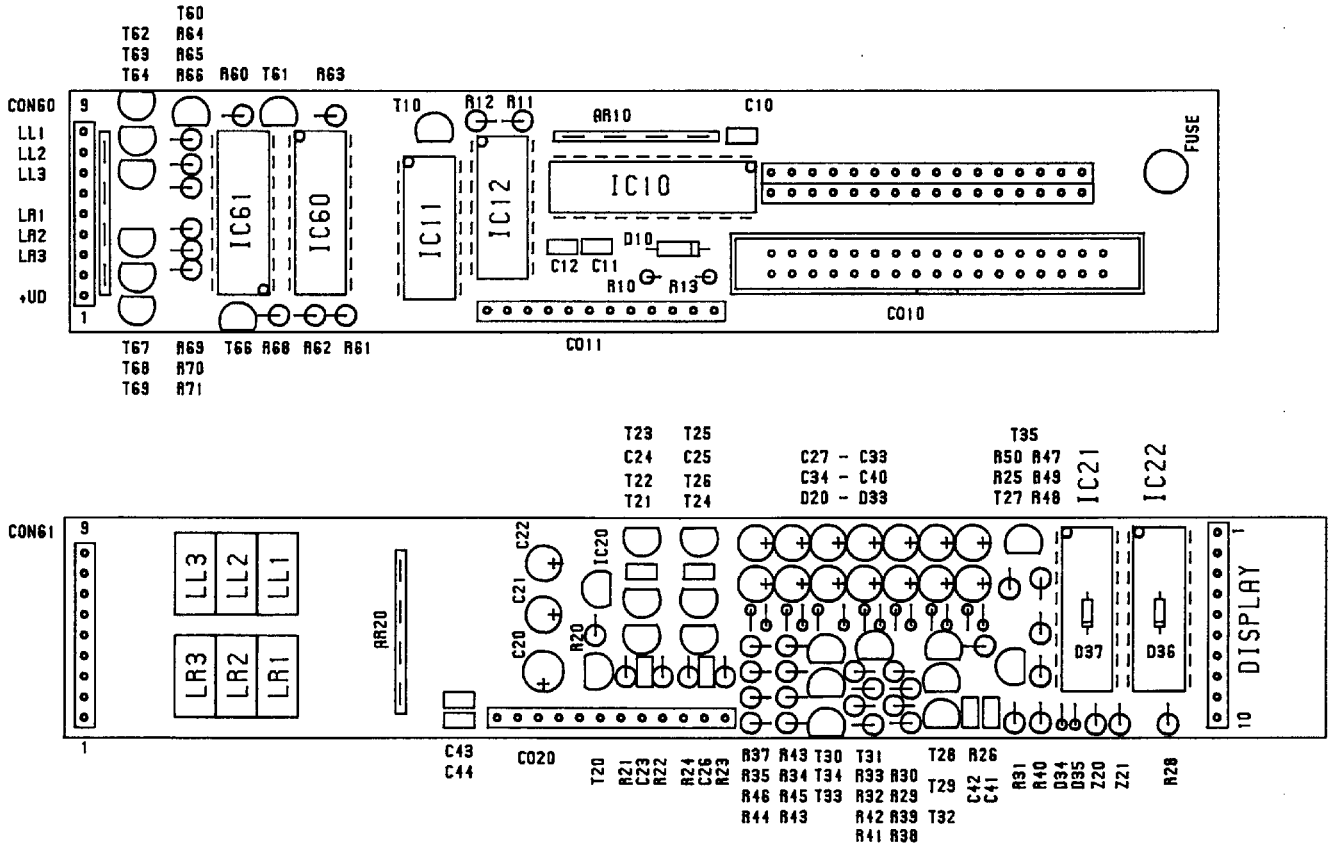

MAINBOARD
SUBBOARD
C020
C011
C010
C044
T20
C20
R20
C21
IC20
C22
C43
Vcc
0V
C11
C27 C28 C29 C30 C31 C32 C33
D20-D33
C34 C35 C36 C37 C38 C39 C40
R50
R49
T21
T24
R21 R22 R23 R24
T22
T26
C23
C26
T23
C24
T28
R26
C25
T25
T27
R25
R28
Z20
Z21
C42
C41
T35
AR20
IC10
CH 1 1
CH 2 3
CH 3 5
CH 4 7
CH 5 9
CH 6 11
CH 7 13
CH 8 15
CH 9 2
CH 10 4
CH 11 6
CH 12 8
CH 13 10
CH 14 12
CH 15 14
CH 16 16
+UD 27
+UD 29
+UD 31
+UD 33
-UD 28
-UD 30
-UD 32
-UD 34
LSTR 24
ISTR 21
RESET 20
CLK 19
DGND 17
DGND 18
AR10
LDATA
C12
LSTR
CH L
CH R
R13
DOFF
D10
R10
C10
INT L
INT R
R38
R39
T32
D35
R30
R29
T29
D34
R46
R42
R44
R41
R40
R37
R36
R33
R32
R31
T34
T33
T31
T30
R45
R43
R35
R34
C1
IC12
RESET
R47
IC21
IC22
D36
D37
R48
1 = ANODE L
2 = CATH 2
3 = CATH 1
4 = RESET
5 = KAA
6 = KAK
7 = CATH 4
8 = CATH 3
9 = CATH 5
10 = ANODE R
REVISION - A
Name
Datum
WE
06.90
DISPLAY ASSY 1144-xxDD
RTW
RADIO-TECHNISCHE WERKSTÄTTEN GMBH



REVISION - A

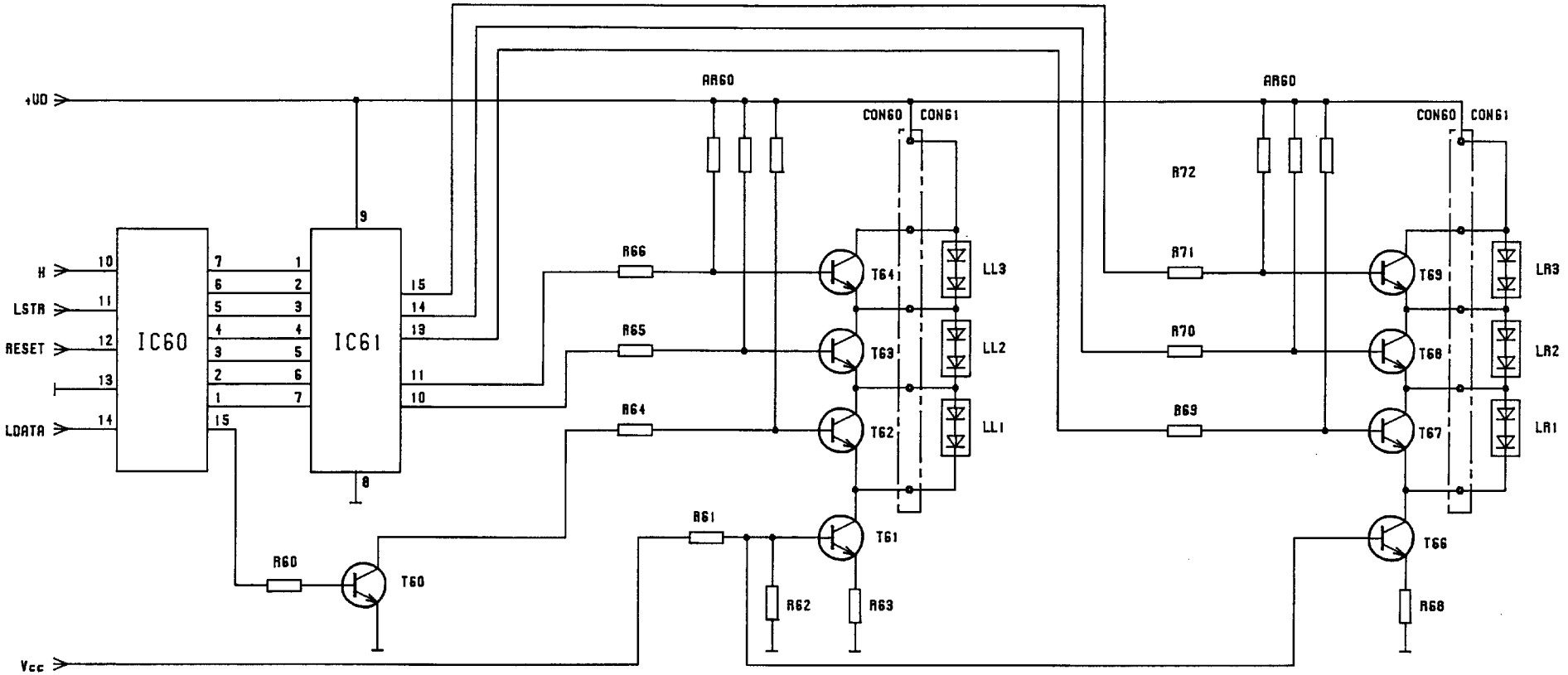
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WE	06.90	
RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH


MAINBOARD
SUBBOARD
C020
C011
C010
IC10
IC11
IC12
IC20
IC21
IC22
T20
T21
T22
T23
T24
T25
T26
T27
T28
T29
T30
T31
T32
T33
T34
T35
T10
D20-D33
D34
D35
D36
D37
Z20
Z21
C20
C21
C22
C23
C24
C25
C26
C27
C28
C29
C30
C31
C32
C33
C34
C35
C36
C37
C38
C39
C40
C41
C42
C43
C44
R10
R11
R12
R13
R20
R21
R22
R23
R24
R25
R26
R28
R29
R30
R31
R32
R33
R34
R35
R36
R37
R38
R39
R40
R41
R42
R43
R44
R45
R46
R47
R48
R49
R50
AR10
AR20
Vcc
0V
LDATA
LSTR
DOFF
INT L
INT R
CH L
CH R
CLK
RESET
EN
DGND
TOG
1 = ANODE L
2 = CATH 2
3 = CATH 1
4 = RESET
5 = KAA
6 = KAK
7 = CATH 4
8 = CATH 3
9 = CATH 5
10 = ANODE R
REVISION - A
Name
Datum
WE
06.90
DISPLAY ASSY 1144-xxTDV
RTW
RADIO-TECHNISCHE WERKSTÄTTEN GMBH

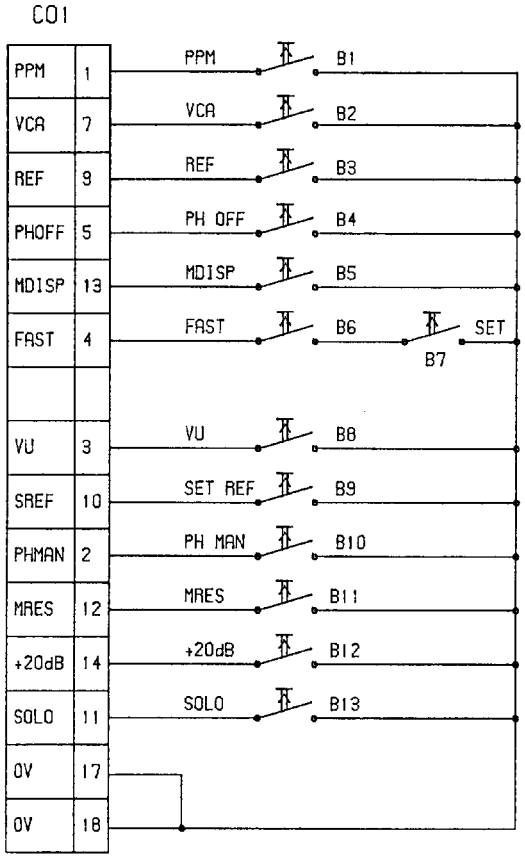


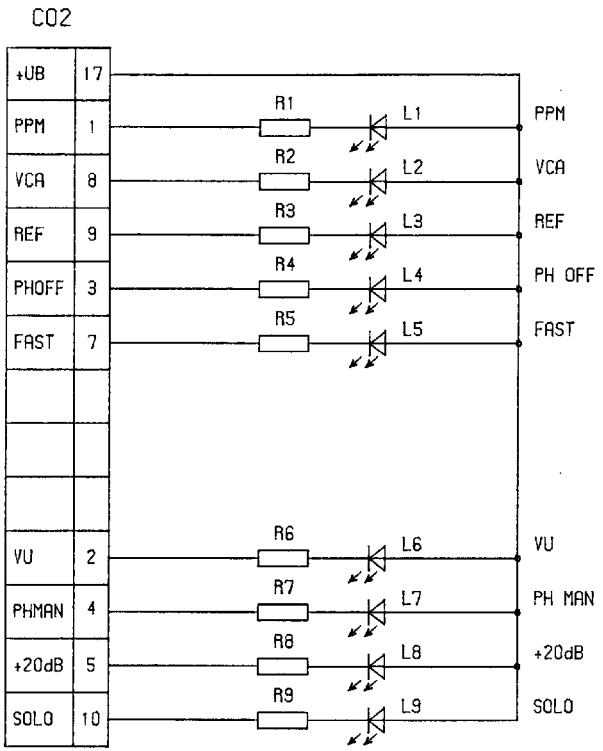
REVISION - A

Name	Datum	PCB DISPLAY 1144xxTDV
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RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH

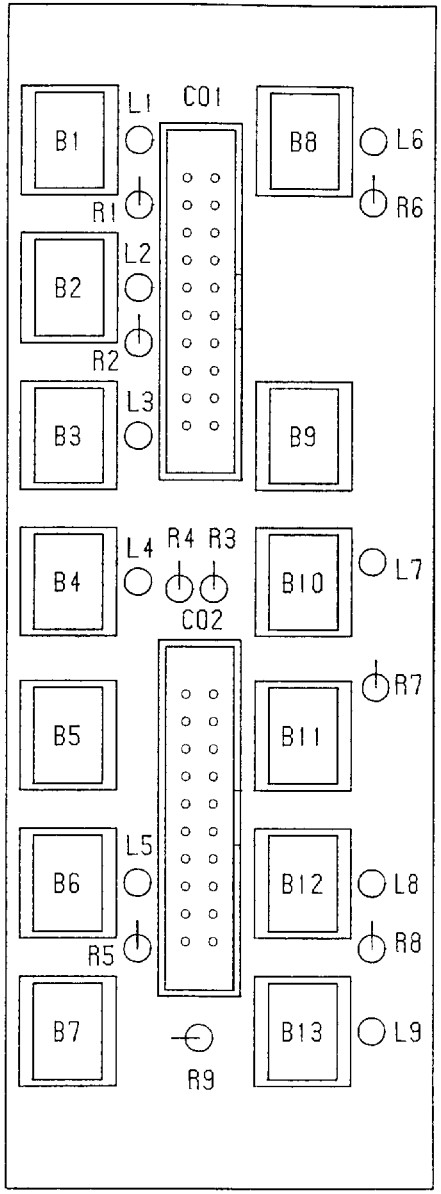


Name	Datum	DISPLAY ASSY LED 1144
WE	04.89	
RTW		RADIO-TECHNISCHE WERKSTATTEN GMBH

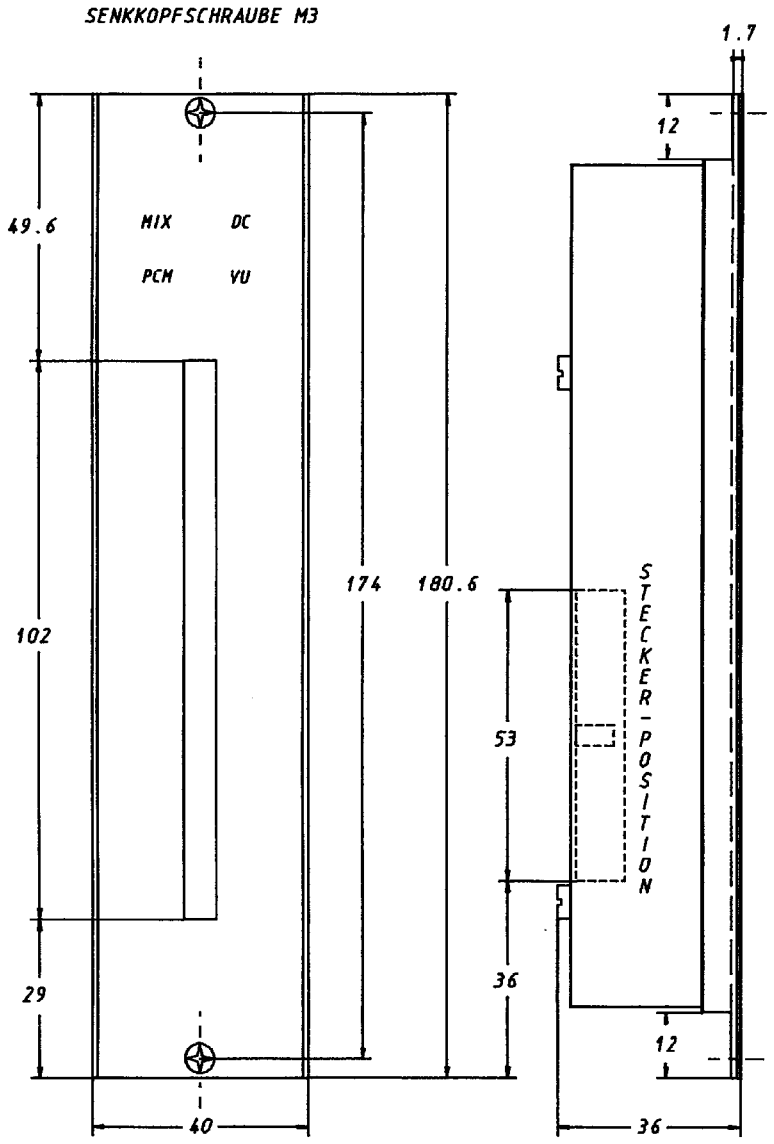




Name	Datum	PCB ASSY 1145 CONTROL PANEL
WE	06.90	
RTW		RADIO-TECHNISCHE WERKSTÄTTEN GMBH



Name	Datum	PCB ASSY 1145 CONTROL PANEL
WE	06.90	
RTW		RADIO-TECHNISCHE WERKSTÄTTEN GMBH



				Ident Nr.	Maßstab	Toleranz +-0.15
					1144	
			Datum	Name	EINSCHUB - ABMESSUNG	
		Bearb	2.89	Bo.		
		Gepr.				
		Norm.				
			RTW		RADIO-TECHNISCHE WERKSTÄTTEN GMBH	Blatt
Zust.	Änderung	Datum				