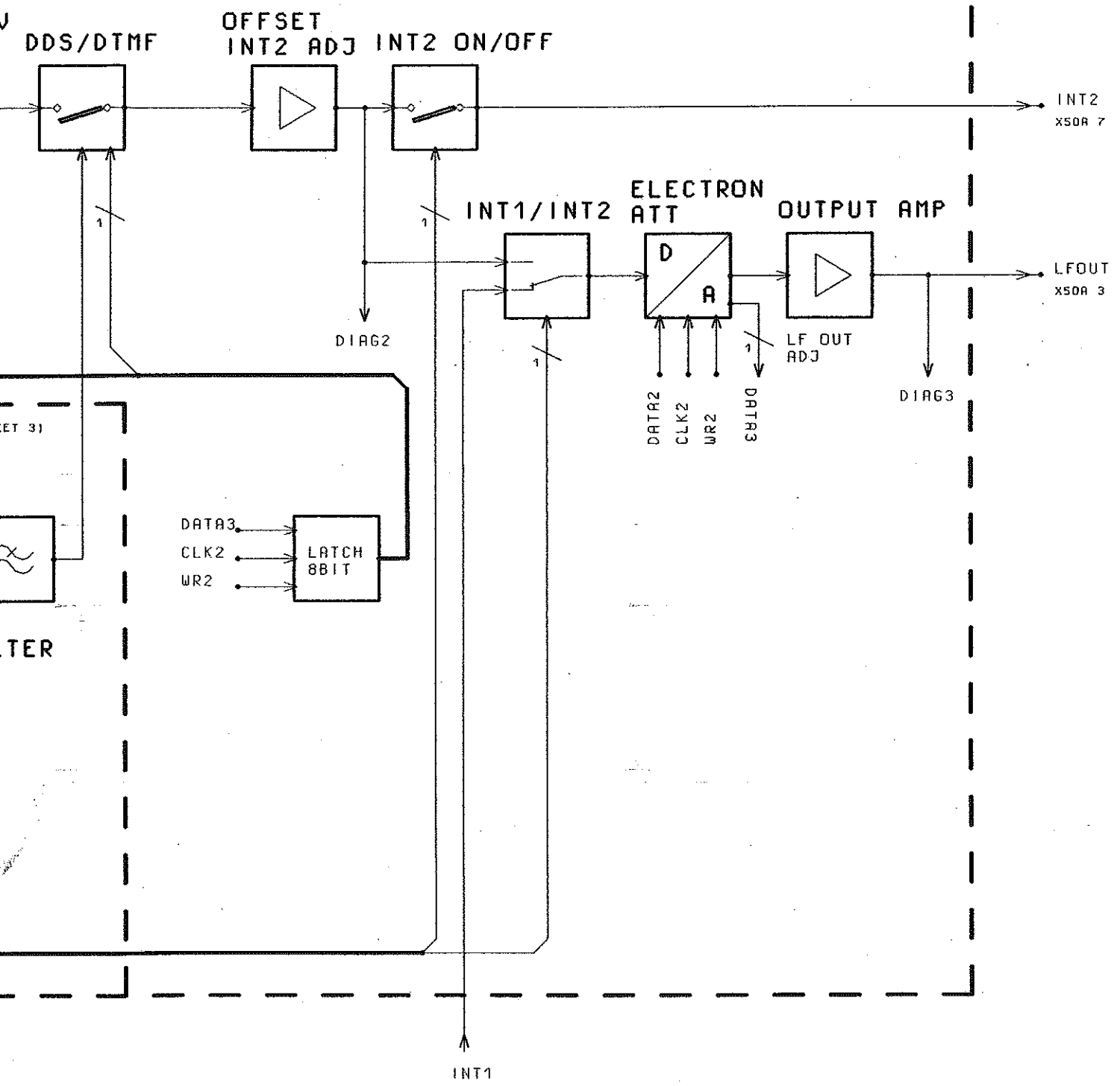
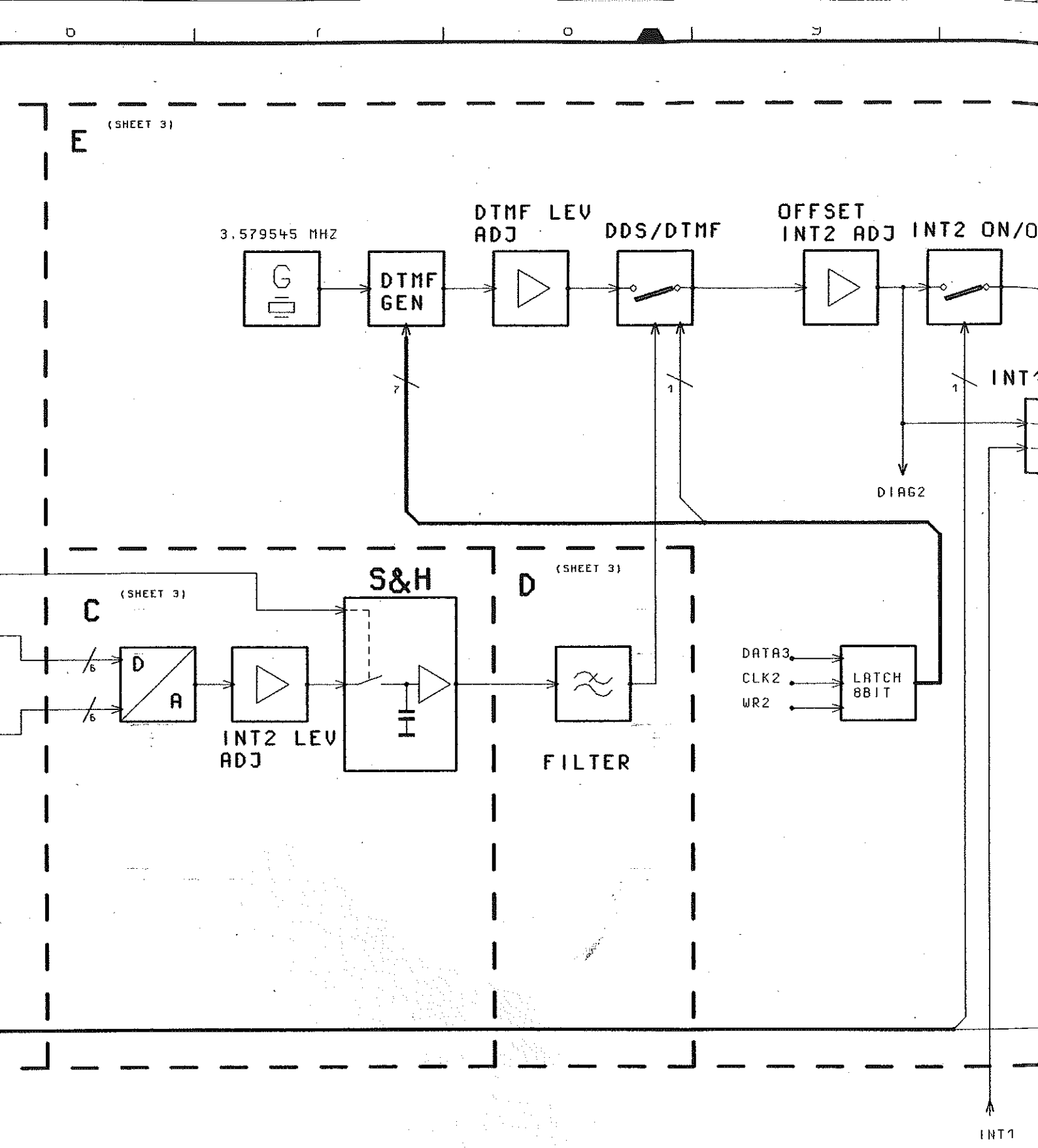


02/02	48732 04	01.03.93	JN	16PK	TAG	NAME	BENENNUNG	
				BEARB.		BU	LF GENERATOR	
				GEPR.				
				NORM				
				PLOTT	07.06.94			
/								
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			ZEICHN.-NR. 1036.7960.01S	BLATT-NR. 1+
				ZU GERAET SM-B2			REG.I.V. 1036.7947	ERSTE Z. 000.0000

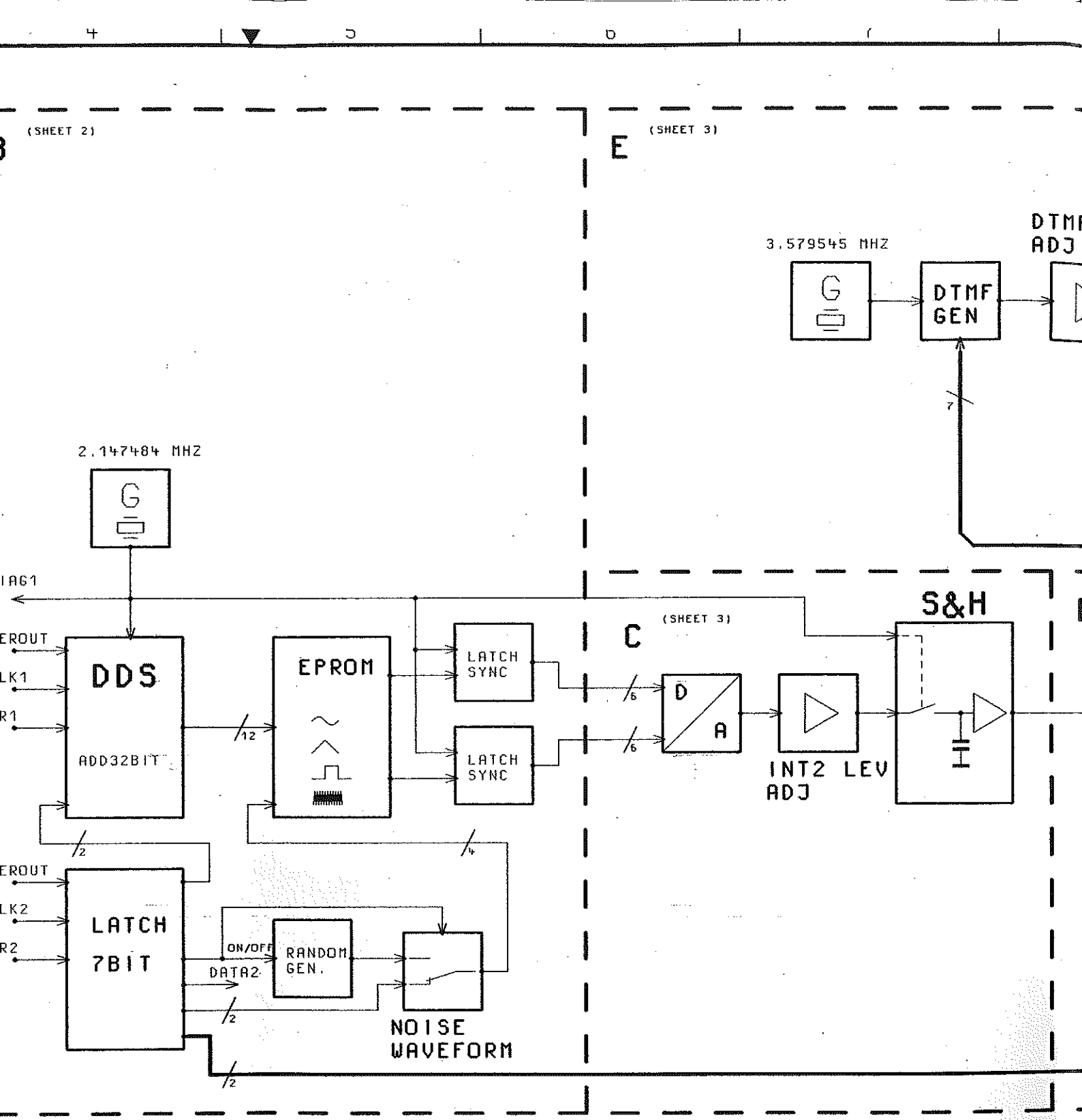


STROMLAUF GILT FUER VAR.02

CIRCUIT DIAGRAM IS VALID FOR MOD.02

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

02/02	48732 04	01.03.93	JN	1GPK	TAG
				BEARB.	
				GEPR.	
				NORM	
				PLOTT	07.06.
/					
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&	
				28 GERAET	S



STROMLAUF GILT FUE

CIRCUIT DIAGRAM IS VALID FO

ACHTUNG: E
ELEKTROSTATISCH GE
BAUELEMENTE ERFORD
BESONDERE HANDH
ATTENTION E
ELECTROSTATIC SENSIT
REQUIRE A SPECIAL

SHEET 4)

SPNG. REGLER → +5VA

SPNG. REGLER → +5VABE

(SHEET 2)

DIAG MUX

REF

DIAG1
DIAG2
DIAG3
DIAG4
DIAG5
DIAG6
DIAG7

SZILL
2
UT
A
DDS
VA
VA

DIAG-5V

(SHEET 2)

SERBUS DECODER

CLK1
WR1
SEROUT
CLK2
WR2

B

(SHEET 2)

2.147484 MHZ

G

DIAG1

SEROUT
CLK1
WR1

DDS

ADD32BIT

12

EPROM

LATCH SYNC

LATCH SYNC

2

4

SEROUT
CLK2
WR2

LATCH 7BIT

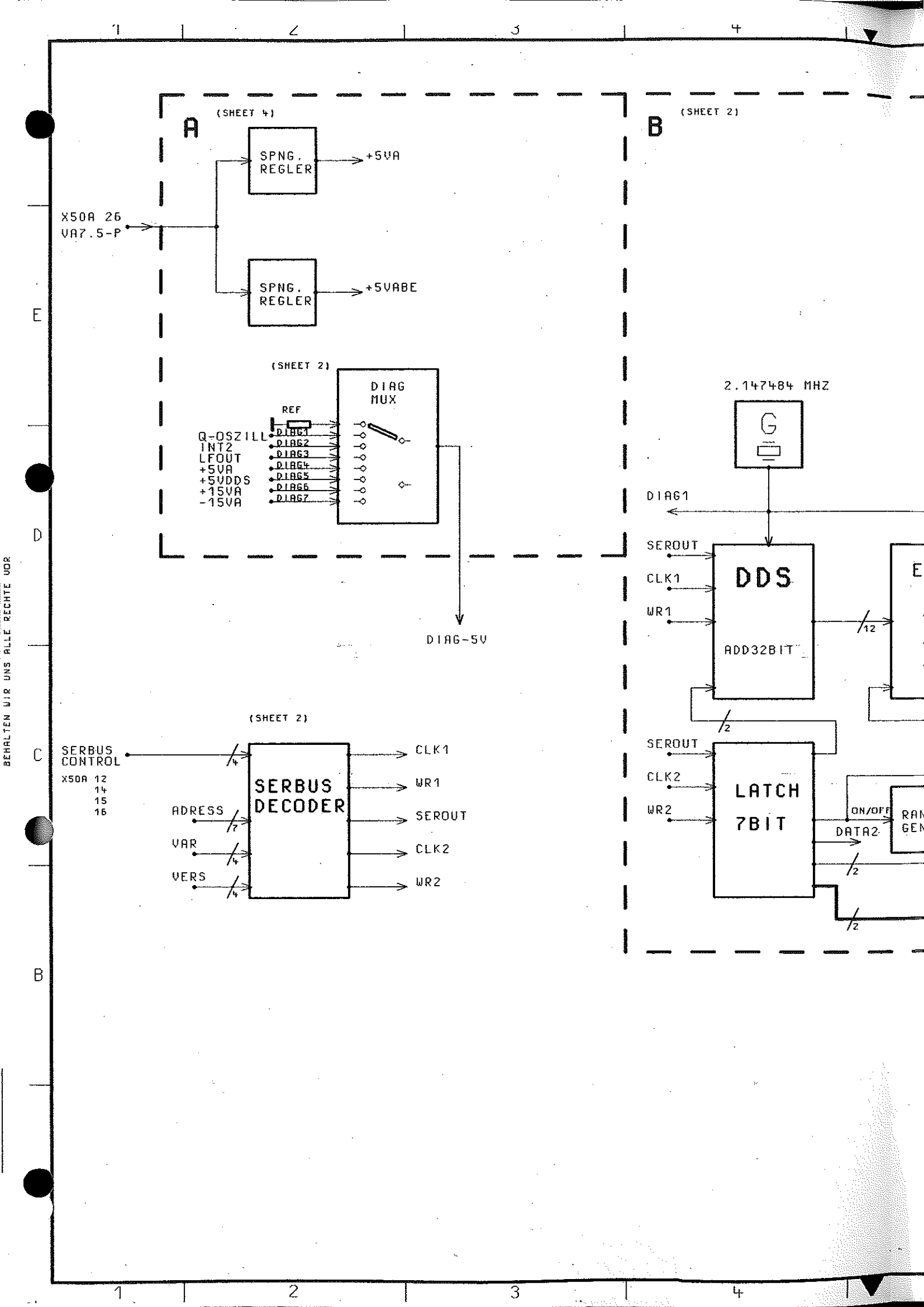
ON/OFF
DATA2

RANDOM GEN.

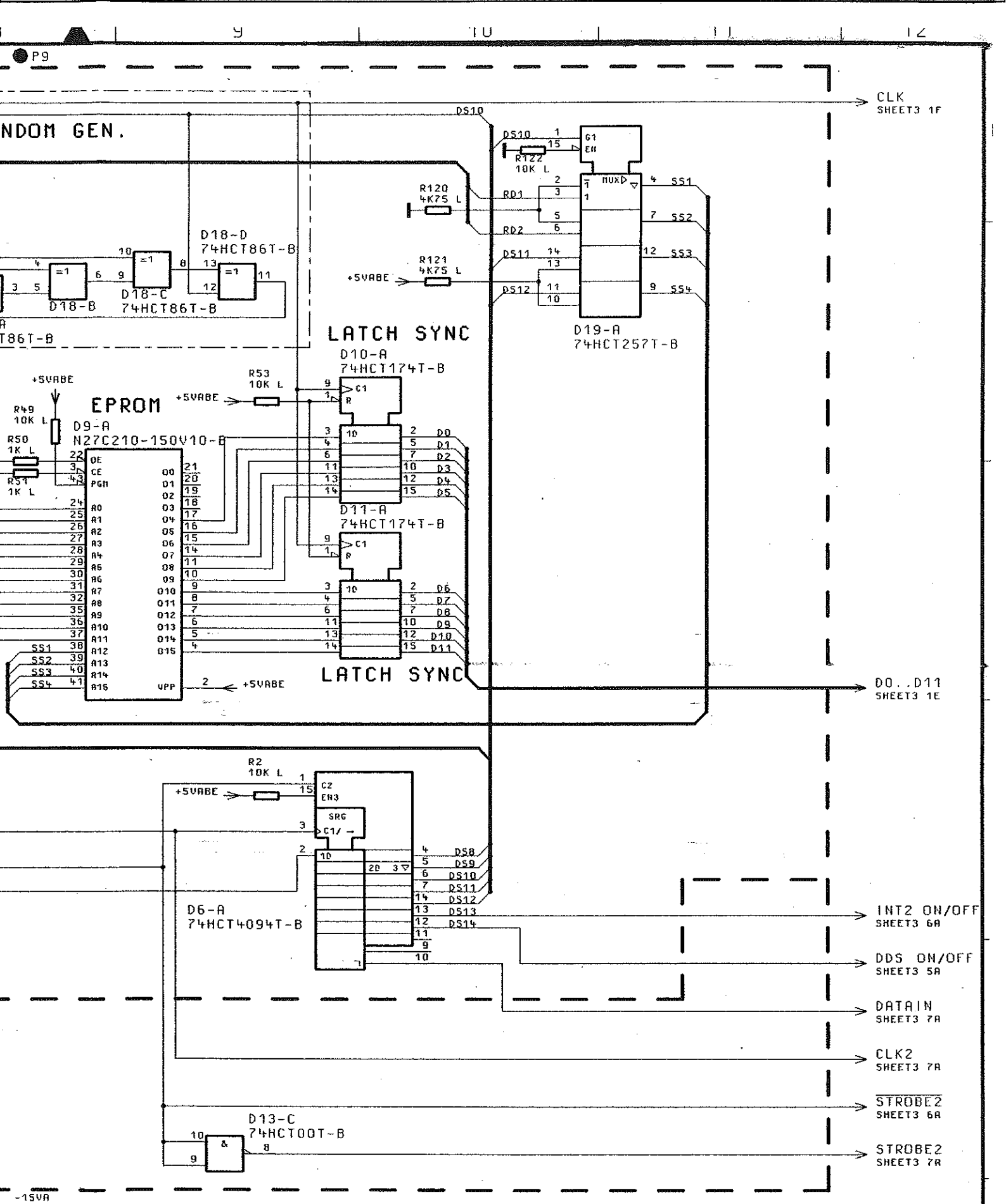
2

NOISE WAVEFORM

2

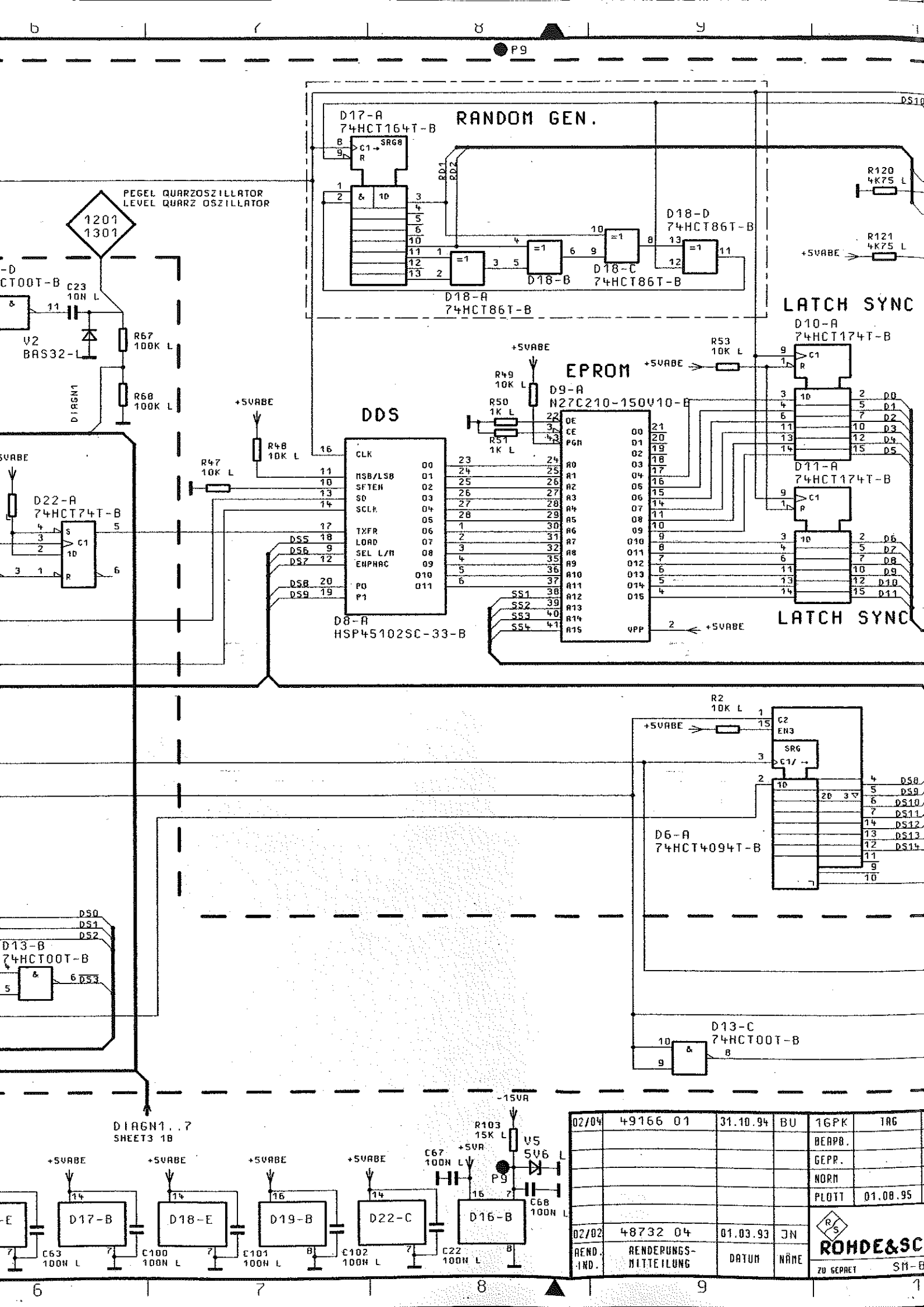


BEHALTEN WIR UNS ALLE RECHTE VOR



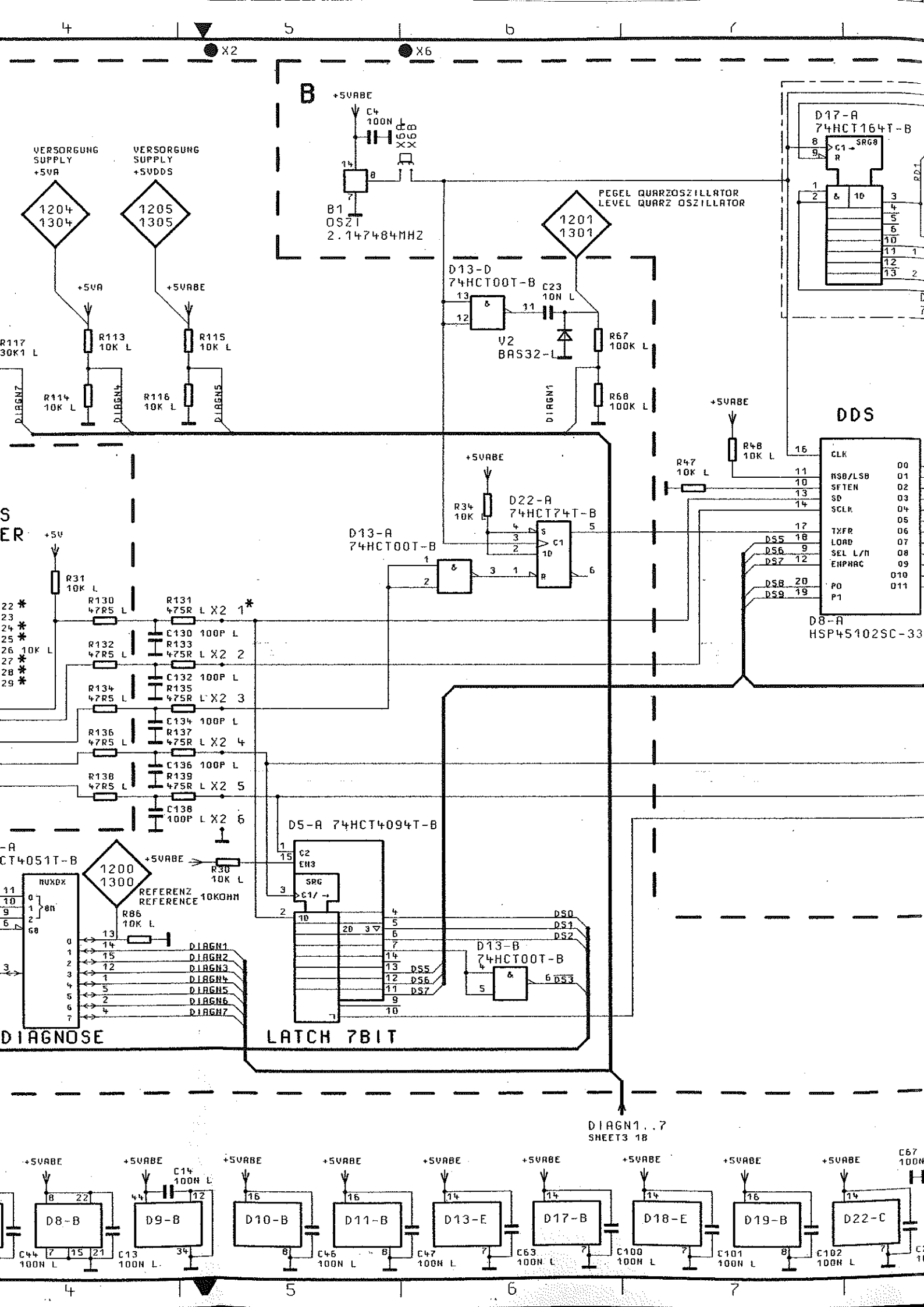
02/04	49166 01	31.10.94	BU	1GPK	TAG	NAME	BENENNUNG
				BEARB.		HO	LF GENERATOR
				GEPR.			
				NORM			
				PLOTT	01.08.95		
02/02	48732 04	01.03.93	JN	ROHDE&SCHWARZ			ZEICHN.-NR. 1036.7960.01S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET SM-B2			REG.I.V. 1036.7947 ERSTE Z. 000.0000

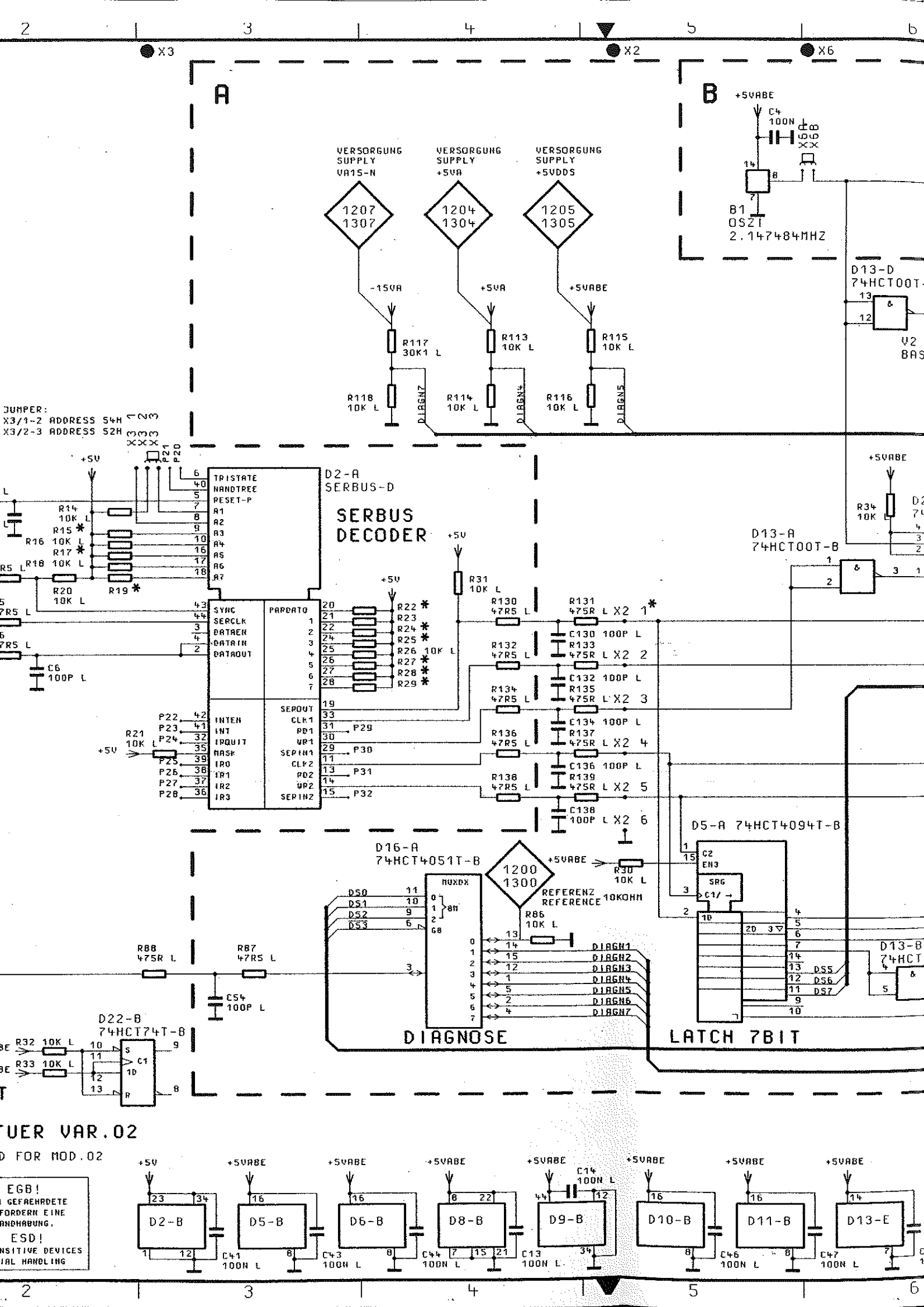
BLATT-NR. 2+ V. BL.

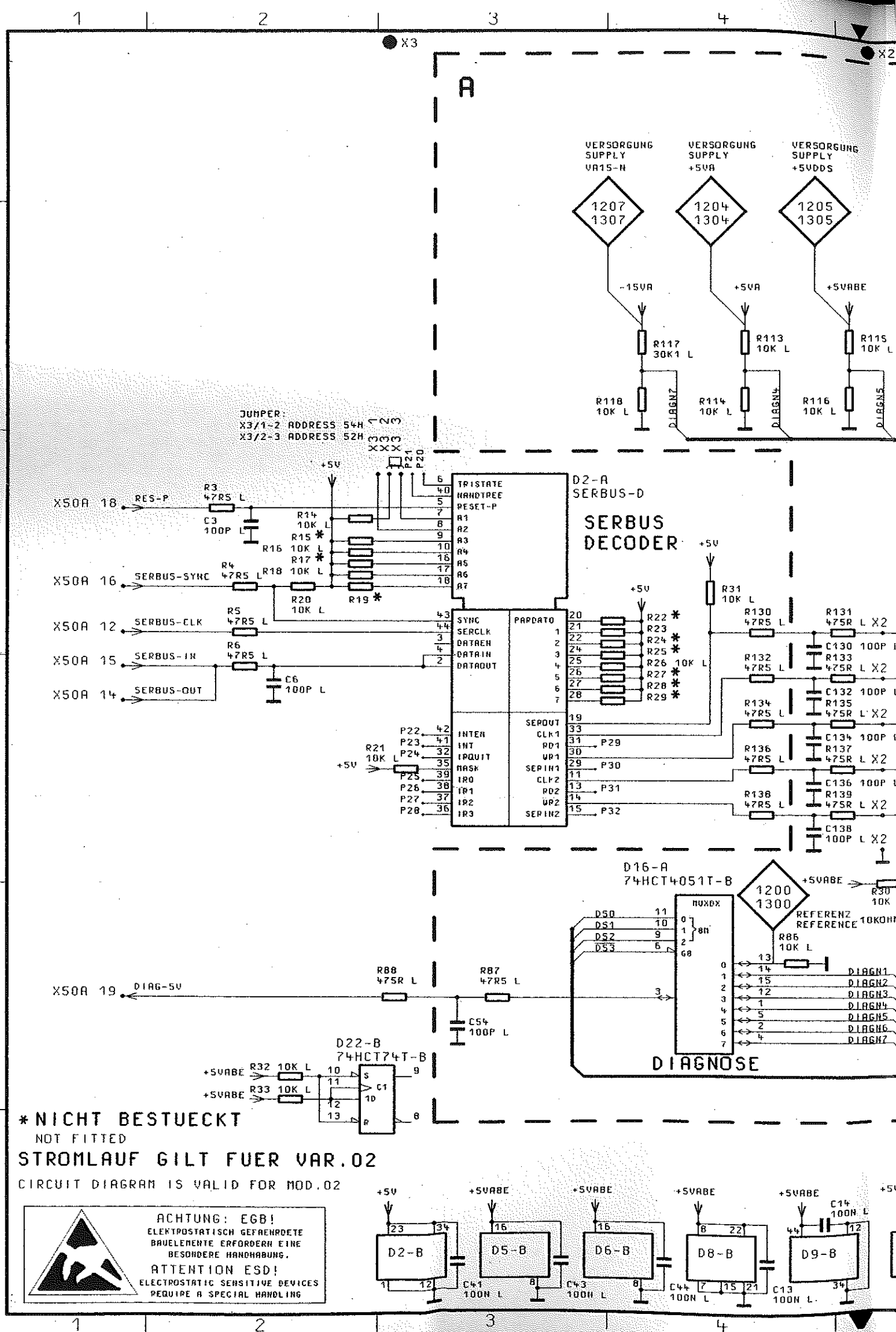


02/04	49166 01	31.10.94	BU	1GPK	TAG
				BEARB.	
				GEPR.	
				NORM	
				PLOTT	01.08.95
02/02	48732 04	01.03.93	JN		
AEND.-IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME		

ROHDE&SC
ZU GEHEIM SM-B

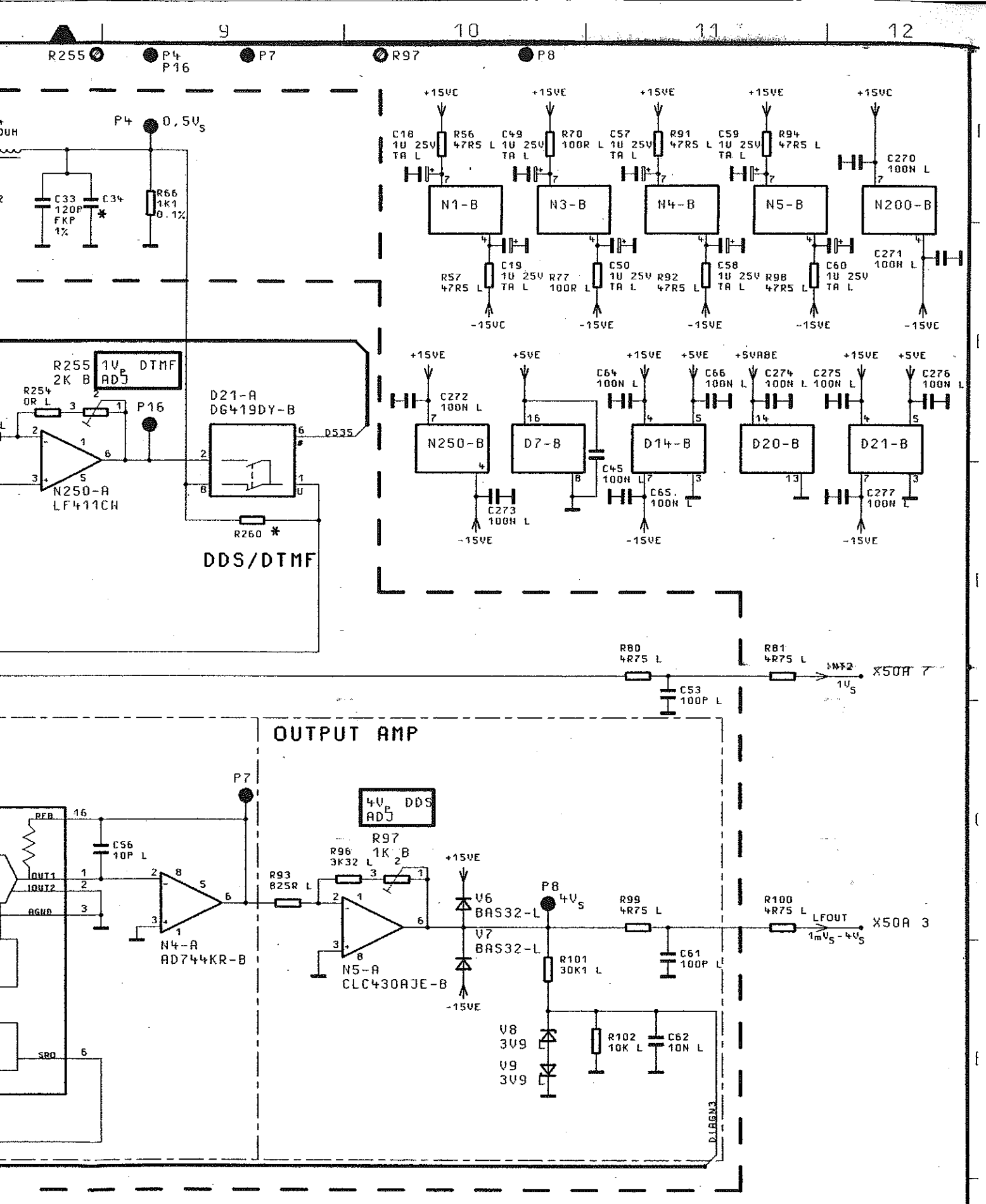

X2
X6
B
+5VABE
C4
100N
X64
X68
B1
OSZI
2.147484MHZ
PEGEL QUARZOSZILLATOR
LEVEL QUARZ OSZILLATOR
1201
1301
D13-D
74HCT00T-B
C23
10N L
V2
BAS32-L
R67
100K L
R68
100K L
DIAGN1
VERSORGUNG
SUPPLY
+5VA
1204
1304
VERSORGUNG
SUPPLY
+5VDDS
1205
1305
+5VA
+5VABE
R113
10K L
R115
10K L
R114
10K L
R116
10K L
DIAGN4
DIAGN5
DIAGN7
D17-A
74HCT164T-B
SRG8
DDS
D8-A
HSP45102SC-33
R48
10K L
R47
10K L
CLK
MSB/LSB
SFTEN
SD
SCLK
TXFR
LOAD
SEL L/H
ENPHAC
PO
P1
DS5
DS6
DS7
DS8
DS9
D22-A
74HCT74T-B
R34
10K
D13-A
74HCT00T-B
+5V
R31
10K L
R130
47R5 L
R131
475R L X2 1*
C130 100P L
R132
47R5 L
R133
475R L X2 2
C132 100P L
R134
47R5 L
R135
475R L X2 3
C134 100P L
R136
47R5 L
R137
475R L X2 4
C136 100P L
R138
47R5 L
R139
475R L X2 5
C138
100P L X2 6
D5-A 74HCT4094T-B
SRG
D13-B
74HCT00T-B
DS0
DS1
DS2
DS3
DS5
DS6
DS7
1200
1300
REFERENZ
REFERENCE
10KOHM
R86
10K L
R30
10K L
MUXDX
DIAGN1
DIAGN2
DIAGN3
DIAGN4
DIAGN5
DIAGN6
DIAGN7
DIAGNOSE
LATCH 7BIT
DIAGN1..7
SHEET3 1B
D8-B
D9-B
D10-B
D11-B
D13-E
D17-B
D18-E
D19-B
D22-C
C14
100N L
C44
100N L
C13
100N L
C46
100N L
C47
100N L
C63
100N L
C100
100N L
C101
100N L
C102
100N L
C67
100N


2
3
4
5
6
X3
X2
X6
A
B
VERSORGUNG SUPPLY VA15-N
VERSORGUNG SUPPLY +5VA
VERSORGUNG SUPPLY +5VDDS
1207 1307
1204 1304
1205 1305
-15VA
+5VA
+5VABE
R117 30K1 L
R113 10K L
R115 10K L
R118 10K L
R114 10K L
R116 10K L
DIAGN7
DIAGN4
DIAGN5
+5VABE
C4 100N
B1 OSZI 2,147484MHZ
D13-D 74HCT00T-
JUMPER:
X3/1-2 ADDRESS 54H
X3/2-3 ADDRESS 52H
+5V
D2-A SERBUS-D
SERBUS DECODER
TRISTATE
NANOTREE
RESET-P
A1
A2
A3
A4
A5
A6
A7
SYNC
SERCLK
DATAEN
DATAIN
DATAOUT
PARDATO
SEROUT
CLK1
RD1
WR1
SERIN1
CLK2
RD2
WR2
SERIN2
INTEN
INT
IRQUIT
MASK
IR0
IR1
IR2
IR3
R14 10K L
R15 *
R16 10K L
R17 *
R18 10K L
R19 *
R20 10K L
R21 10K L
R22 *
R23
R24 *
R25 *
R26 10K L
R27 *
R28 *
R29 *
R31 10K L
C6 100P L
D13-A 74HCT00T-B
R130 47R5 L
R131 475R L X2 1 *
C130 100P L
R132 47R5 L
R133 475R L X2 2
C132 100P L
R134 47R5 L
R135 475R L X2 3
C134 100P L
R136 47R5 L
R137 475R L X2 4
C136 100P L
R138 47R5 L
R139 475R L X2 5
C138 100P L X2 6
D5-A 74HCT4094T-B
C2
EN3
SRG
C1/→
D16-A 74HCT4051T-B
MUXDX
1200 1300
REFERENZ REFERENCE 10KOHM
R30 10K L
R86 10K L
DS0
DS1
DS2
DS3
DIAGN1
DIAGN2
DIAGN3
DIAGN4
DIAGN5
DIAGN6
DIAGN7
DS5
DS6
DS7
R88 475R L
R87 47R5 L
C54 100P L
D22-B 74HCT74T-B
R32 10K L
R33 10K L
DIAGNOSE
LATCH 7BIT
TUER VAR.02
D FOR MOD.02
EGB!
GEFAEHRDETE
FORDERN EINE
ANDHABUNG.
ESD!
NSITIVE DEVICES
IAL HANDLING
D2-B
D5-B
D6-B
D8-B
D9-B
D10-B
D11-B
D13-E
C41 100N L
C43 100N L
C44 100N L
C13 100N L
C14 100N L
C46 100N L
C47 100N L



FUER DIESE UNTERLAGE BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1036.7960.01 S



02/04	49166 01	31.10.94	BU	1GPK	TAG	NAME	BENENNUNG
				BEARB.		HO	LF GENERATOR
				GEPR.			
				NORM			
				PLOTT	01.08.95		
02/02	48732 04	01.03.93	JN	ROHDE&SCHWARZ			ZEICHN.-NR. 1036.7960.01S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET SM-B2			REG.I.V. 1036.7947 ERSTE Z. 000.0000

BLATT-NR. 3+ V. BL.

P15 R255 P4 P16 P7 R97

FILTER

R64 1K1 0.1%

L23 330UH — L25 470UH — L26 470UH — L24 330UH

P4 0,5Vs

C25 100P FKP 1% C26 * | C27 330P FKP 1% C28 * | C29 330P FKP 1% C30 * | C31 300P FKP 1% C32 * | C33 120P FKP 1% C34 *

R66 1K1 0.1%

+15VC

C18 1U 25V TA L

R56 47R5 L

N1-B

R57 47R5 L

-15V

+15VE

C272 100N L

N250-B

-15VE

D20-A PCD3311

B2 3.579545MHZ

DS28 DS29 DS30 DS31 DS32 DS33 DS34

LSB OSCI OSCO MSB STROBE TONE MODE RO

+5VABE

R250 4K75 L

R251 4K75 L

C252 1U 050V MKT

R253 1K L

R252 10K L

R256 1K21 L

R254 0R L

R255 2K B 1Vp DTMF ADJ

P15 P16

N250-A LF411CN

D21-A DG419DY-B

D535

R260 *

DTMF GEN

DDS/DTMF

ELECTRON ATT

+5VE

R1 10K L

D7-A 74HCT4094T-B

C2 EN3 SRG C1/→

DS28 DS29 DS30 DS31 DS32 DS33 DS34 DS35

+5VE

R89 10K L

R90 5R11 L

C55 10U 25V TA L

D15 DAC8143 B

VDD VREF RFB IOUT1 IOUT2 AGND DGND

12-BIT D/A CONVERTER

12-BIT DAC REGISTER

12-BIT INPUT SHIFT REGISTER

CLK LDT LDZ STB1 STB4 STB3 STB2 SR1 SRO

C56 10P L

P7

N4-A AD744KR-B

OUTPUT AMP

4Vp DDS ADJ

R97 1K B

R96 3K32 L

R93 825R L

N5-A CLC430AJE-B

+15VE

V6 BA

V7 BA

-15VE

STROBE2 SHEET2 12B

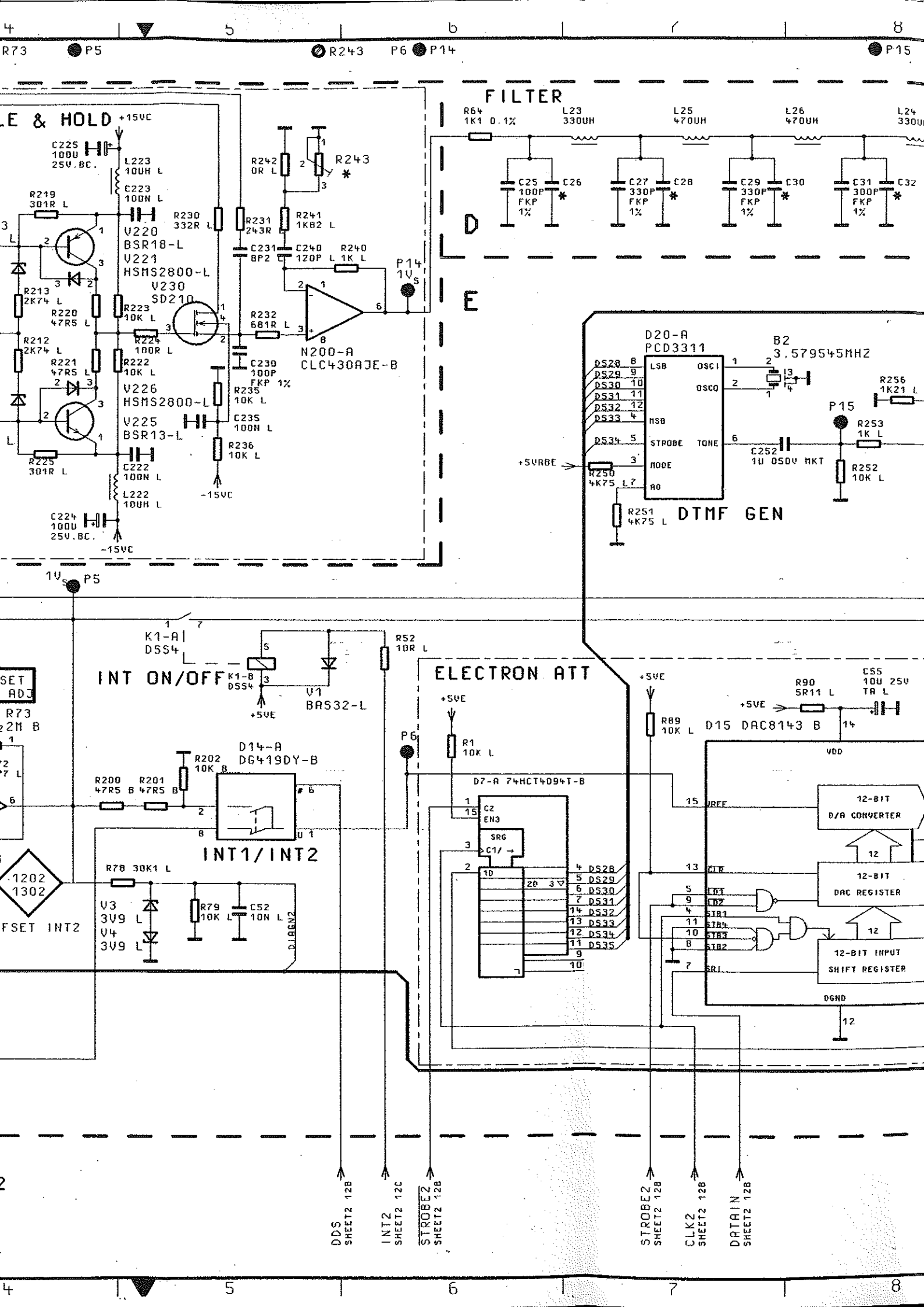
CLK2 SHEET2 12B

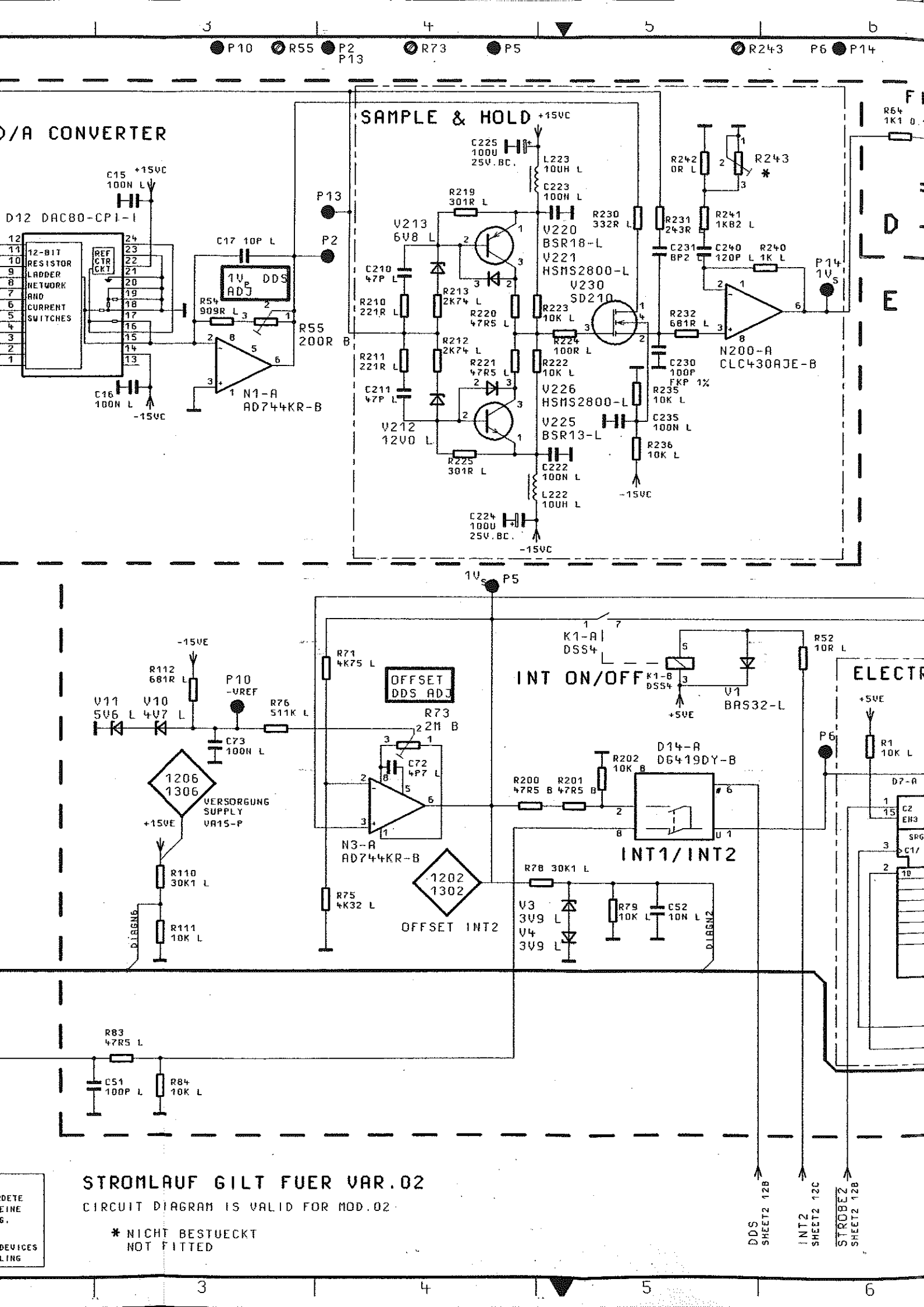
DATAIN SHEET2 12B

02/04	49166 01	31.10.94	BU	1GPK	TAG
				BEARB.	
				GEPR.	
				NORM	
				PLOTT	01.08.95
02/02	48732 04	01.03.93	JN		
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME		

ROHDE&SCHW

ZU GERAET SM-B2


FILTER
R64 1K1 0.1%
L23 330UH
L25 470UH
L26 470UH
C25 100P FKP 1%
C26
C27 330P FKP 1%
C28
C29 330P FKP 1%
C30
C31 300P FKP 1%
C32
E & HOLD +15VC
C225 100U 25V.BC.
L223 100UH L
C223 100N L
R219 301R L
R230 332R L
R231 243R
R242 OR L
R243 *
R241 1K82 L
C231 8P2
C240 120P L
R240 1K L
P14 1V
V220 BSR18-L
V221 HSMS2800-L
V230 SD210
R213 2K74 L
R220 47R5 L
R223 10K L
R232 681R L
N200-A CLC430AJE-B
R212 2K74 L
R221 47R5 L
R224 100R L
C230 100P FKP 1%
R222 10K L
V226 HSMS2800-L
R235 10K L
V225 BSR13-L
C235 100N L
R236 10K L
R225 301R L
C222 100N L
L222 100UH L
-15VC
C224 100U 25V.BC.
D20-A PCD3311
B2 3.579545MH2
DS28 DS29 DS30 DS31 DS32 DS33 DS34
LSB MSB STROBE MODE A0
OSCI OSCO TONE
R256 1K21 L
P15
R253 1K L
C252 1U 050V MKT
R252 10K L
+5VBE
R250 4K75 L
R251 4K75 L
DTMF GEN
1V P5
K1-A DSS4
K1-B DSS4
INT ON/OFF
+5VE
V1 BAS32-L
R52 10R L
SET ADJ
R73 2M B
D14-A DG419DY-B
R202 10K B
R200 47R5 B
R201 47R5 B
U 1
INT1/INT2
R78 30K1 L
V3 3V9 L
V4 3V9 L
R79 10K L
C52 10N L
DIAGN2
1202 1302
FSET INT2
ELECTRON ATT
P6
R1 10K L
D7-A 74HCT4094T-B
C2 EN3 SRG C1/→
DS28 DS29 DS30 DS31 DS32 DS33 DS34 DS35
R89 10K L
D15 DAC8143 B
R90 5R11 L
C55 10U 25V TA L
VDD
VREF
CLR
LD1 LD2
STB1 STB4 STB3 STB2
SRI
DGND
12-BIT D/A CONVERTER
12-BIT DAC REGISTER
12-BIT INPUT SHIFT REGISTER
DDS SHEET2 12B
INT2 SHEET2 12C
STROBE2 SHEET2 12B
STROBE2 SHEET2 12B
CLK2 SHEET2 12B
DATAIN SHEET2 12B



STROMLAUF GILT FUER VAR.02

CIRCUIT DIAGRAM IS VALID FOR MOD.02

* NICHT BESTUECKT
NOT FITTED

BEHALTEN WIR UNS ALLE RECHTE VOR

P10 R55 P2 P13 R73 P5

CLK
SHEET2 12F

C

D/A CONVERTER

C15 100N L +15VC

D12 DAC80-CP1-I

D0 12
D1 11
D2 10
D3 9
D4 8
D5 7
D6 6
D7 5
D8 4
D9 3
D10 2
D11 1

12-BIT RESISTOR LADDER NETWORK AND CURRENT SWITCHES

REF CTR CKT

24 23 22 21 20 19 18 17 16 15 14 13

C16 100N L -15VC

D0..D11
SHEET2 12D

C17 10P L

1V$_p$ DDS ADJ

R54 909R L

R55 200R B

N1-A
AD744KR-B

P13

P2

SAMPLE & HOLD

+15VC

C225 100U 25V.BC.

L223 10UH L

C223 100N L

R219 301R L

V213 6V8 L

V220 BSR18-L

V221 HSMS2800

V230 SD21

C210 47P L

R213 2K74 L

R210 221R L

R220 47R5 L

R223 10K L

R224 100R L

R212 2K74 L

R211 221R L

R221 47R5 L

R222 10K L

C211 47P L

V226 HSMS2800

V212 12V0 L

V225 BSR13-L

R225 301R L

C222 100N L

L222 10UH L

C224 100U 25V.BC.

-15VC

1V$_{p-p}$ P5

-15VE

R112 681R L

P10 -VREF

V11 5V6 L V10 4V7 L

R76 511K L

C73 100N L

1206 1306 VERSORGUNG SUPPLY VA15-P

+15VE

R110 30K1 L

R111 10K L

DIAGN

R71 4K75 L

OFFSET DDS ADJ

R73 2M B

C72 4P7 L

N3-A
AD744KR-B

R75 4K32 L

1202 1302 OFFSET INT2

R78 30K1 L

V3 3V9 L

V4 3V9 L

K1-A
DSS4

INT ON/

R200 47R5 B

R201 47R5 B

DIAGN1..7
SHEET2 6A

X50A 6 INT1

R82 47R5 L

R83 47R5 L

C51 100P L

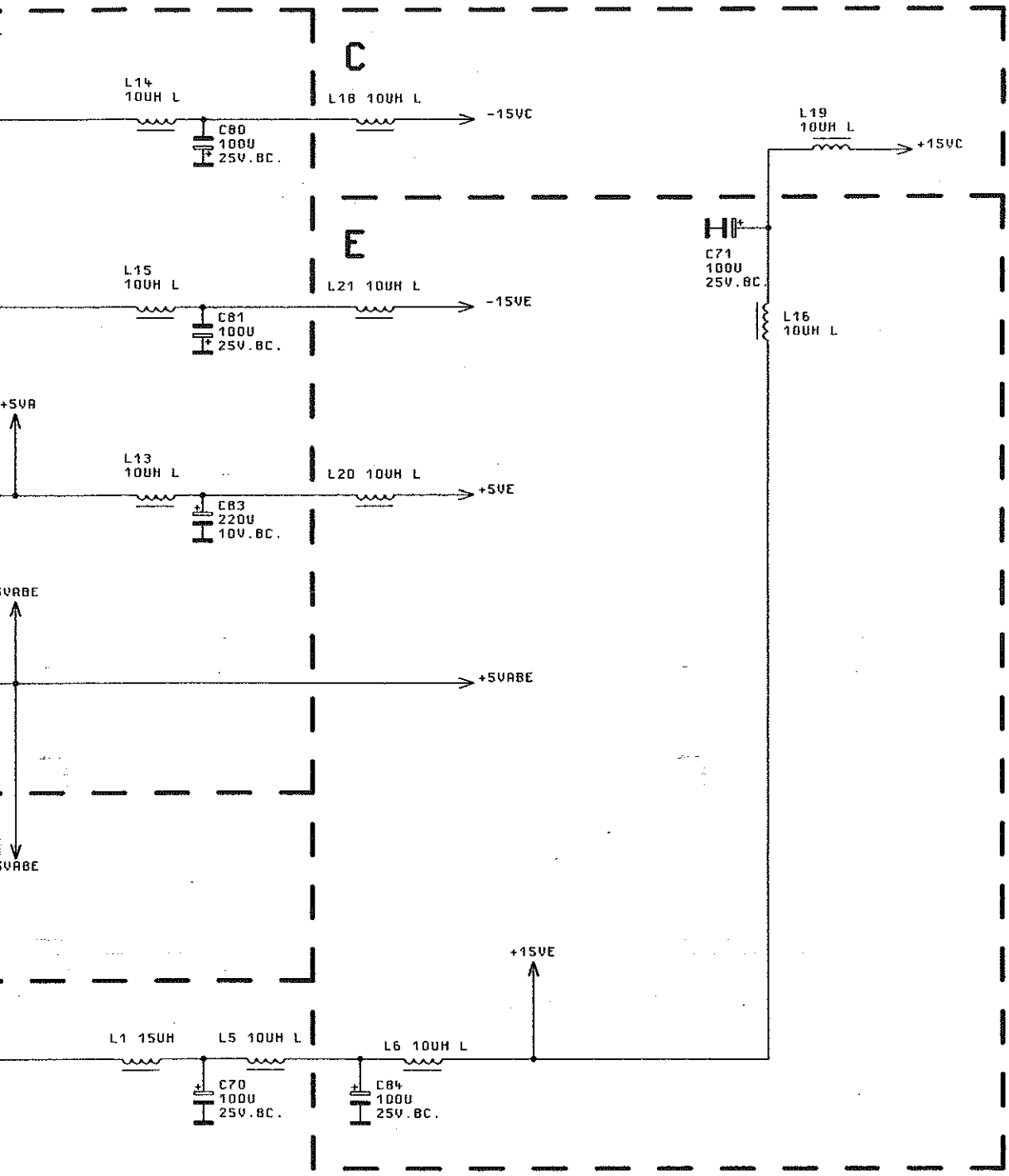
R84 10K L

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

STROMLAUF GILT FUER VAR.02

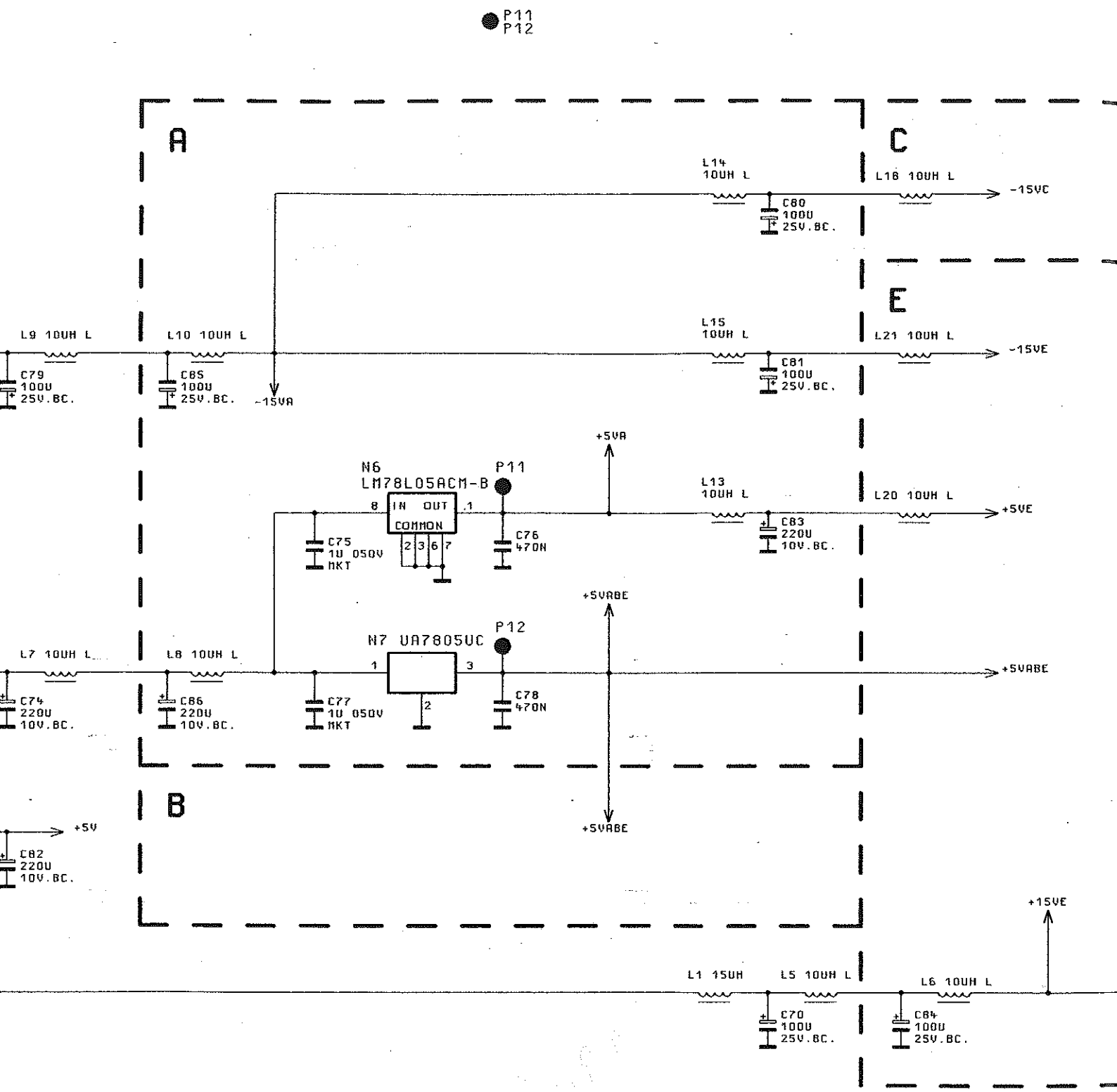
CIRCUIT DIAGRAM IS VALID FOR MOD.02

* NICHT BESTUECKT
NOT FITTED



02/02	48732 04	01.03.93	JN	1GPK	TAG	NAME	BENENNUNG
				BEARB.		BU	LF GENERATOR
				GEPR.			
				NORM			
				PLOTT	07.06.94		
							ZEICHN.-NR. 1036.7960.01S
/							BLATT-NR. 4
REND. IND.	RENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHWARZ			V. BL.
				ZD GERAET SM-B2			REG.I.V. 1036.7947 ERSTE Z. 000.0000

5 6 7 8



STROMLAUF GILT FUER VAR.02

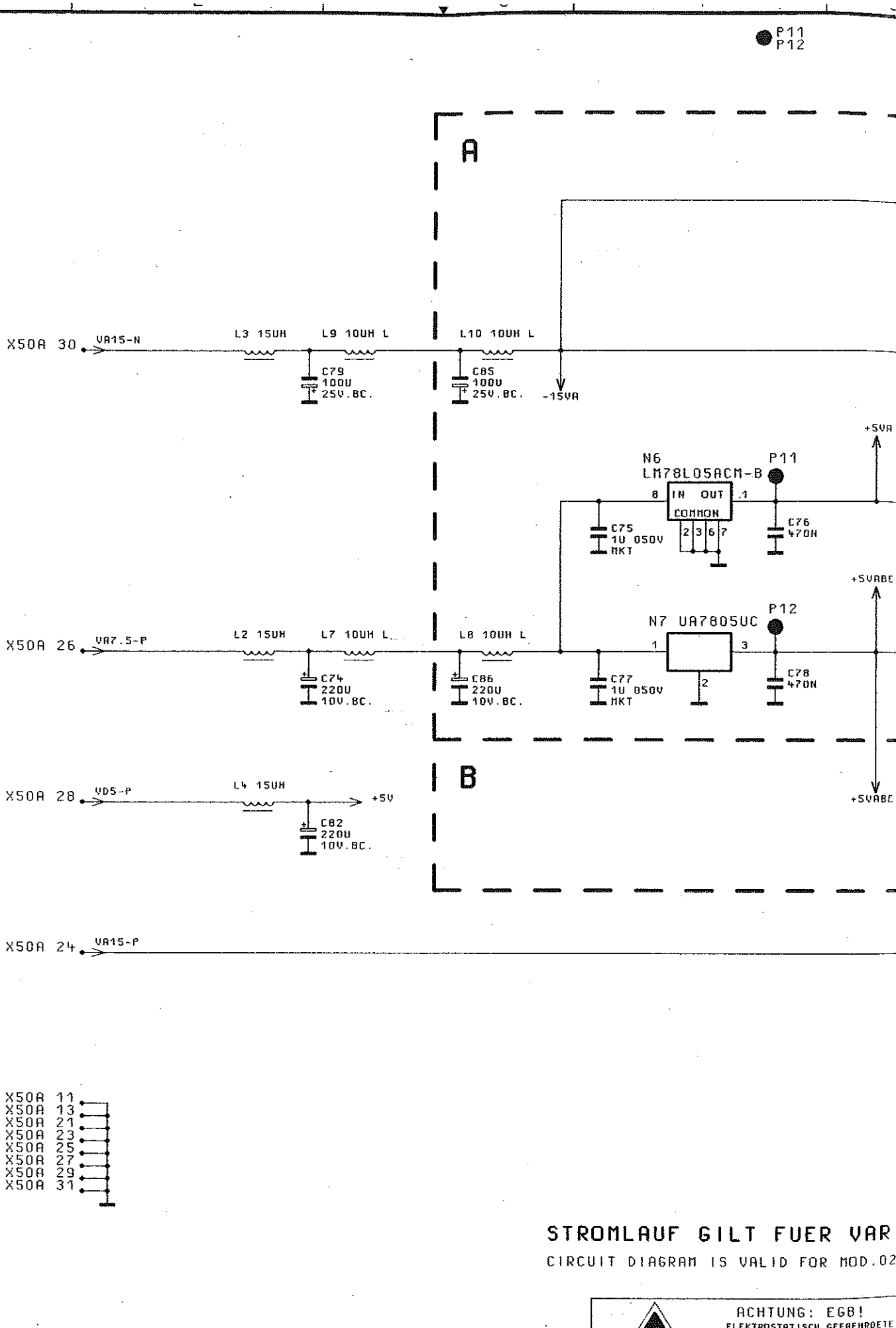
CIRCUIT DIAGRAM IS VALID FOR MOD.02

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
02/02	48732 04	01.03.93	JN
/			

16PK	TAG
BEARB.	
GEPR.	
NORM	
PLOTT	07.06.94

ROHDE&SCH
ZU GERAET SM-B2



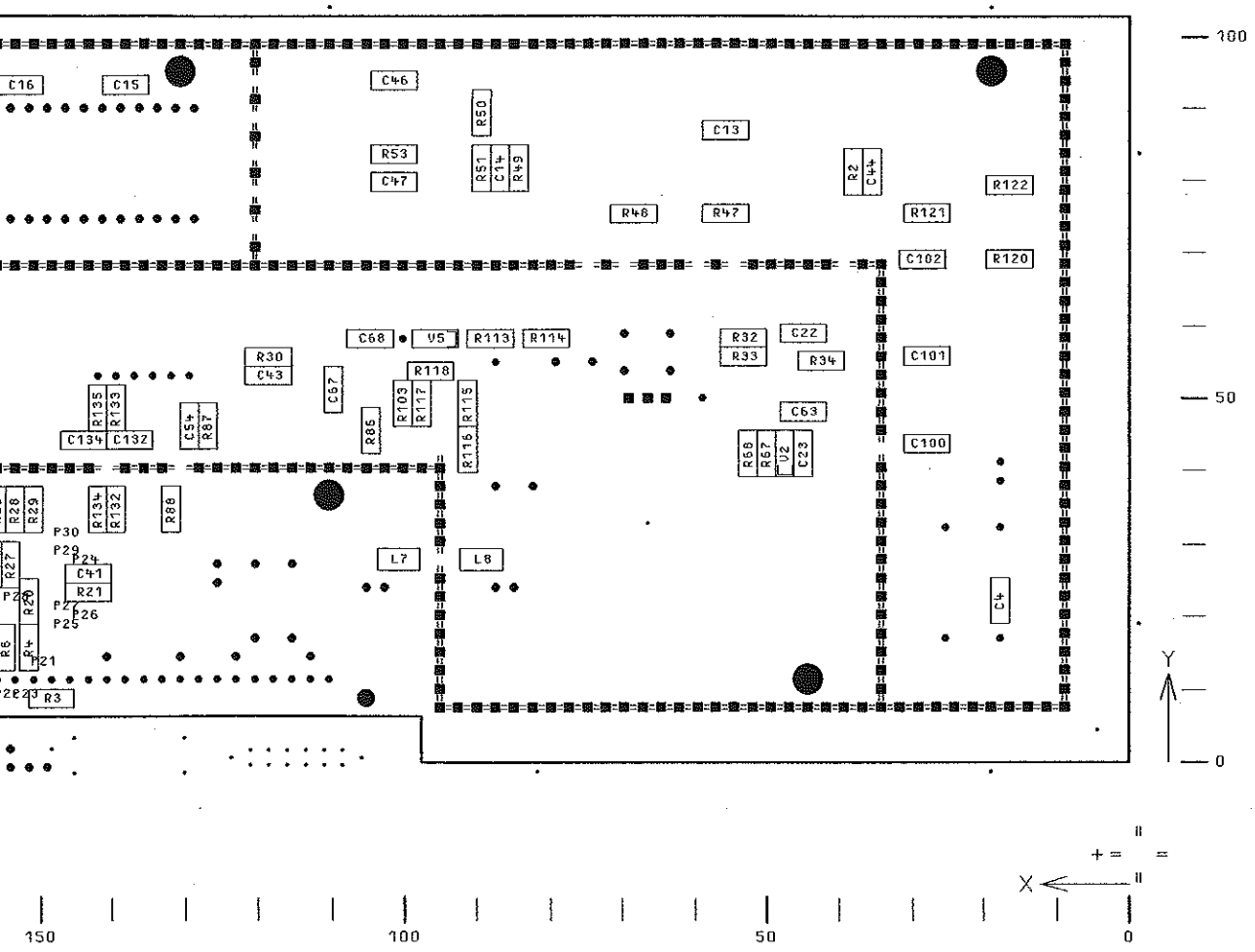
FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1036.7960.01 S

STROMLAUF GILT FUER VAR

CIRCUIT DIAGRAM IS VALID FOR MOD.02

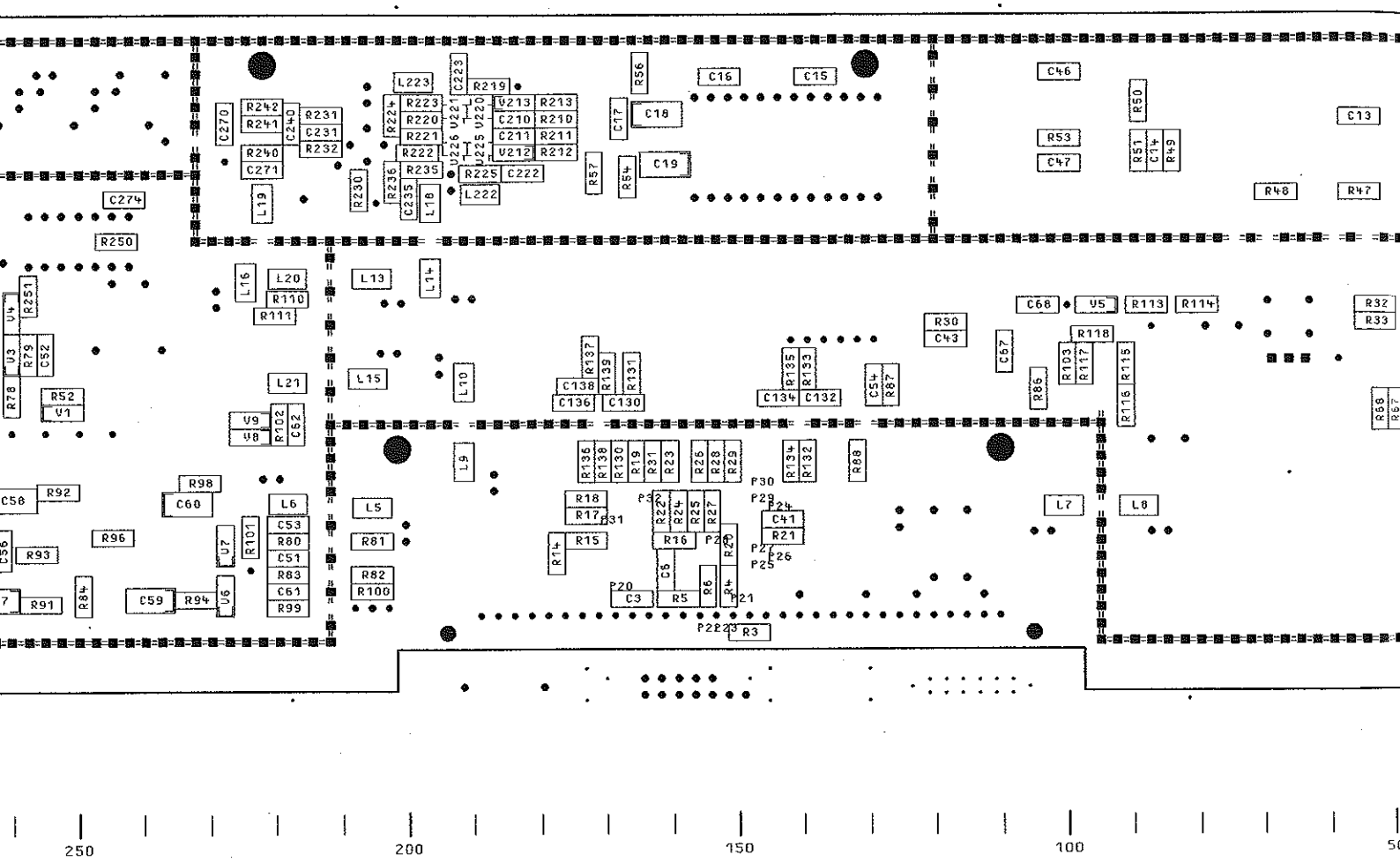
ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVIC
REQUIRE A SPECIAL HANDLING



01/				IGPK	TAG	NAME	BENENNUNG
				BEARB.		BU	LF GENERATOR
				GEPR.			
				NORM			
				PLOTT	07.06.94		
/				ROHDE&SCHWARZ			ZEICHN.-NR. 1036.7960.01 EE
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET	SM-B2		REG.I.V. 1036.7947 ERSTE Z. 000.0000

Z

BLATT-NR. 2-



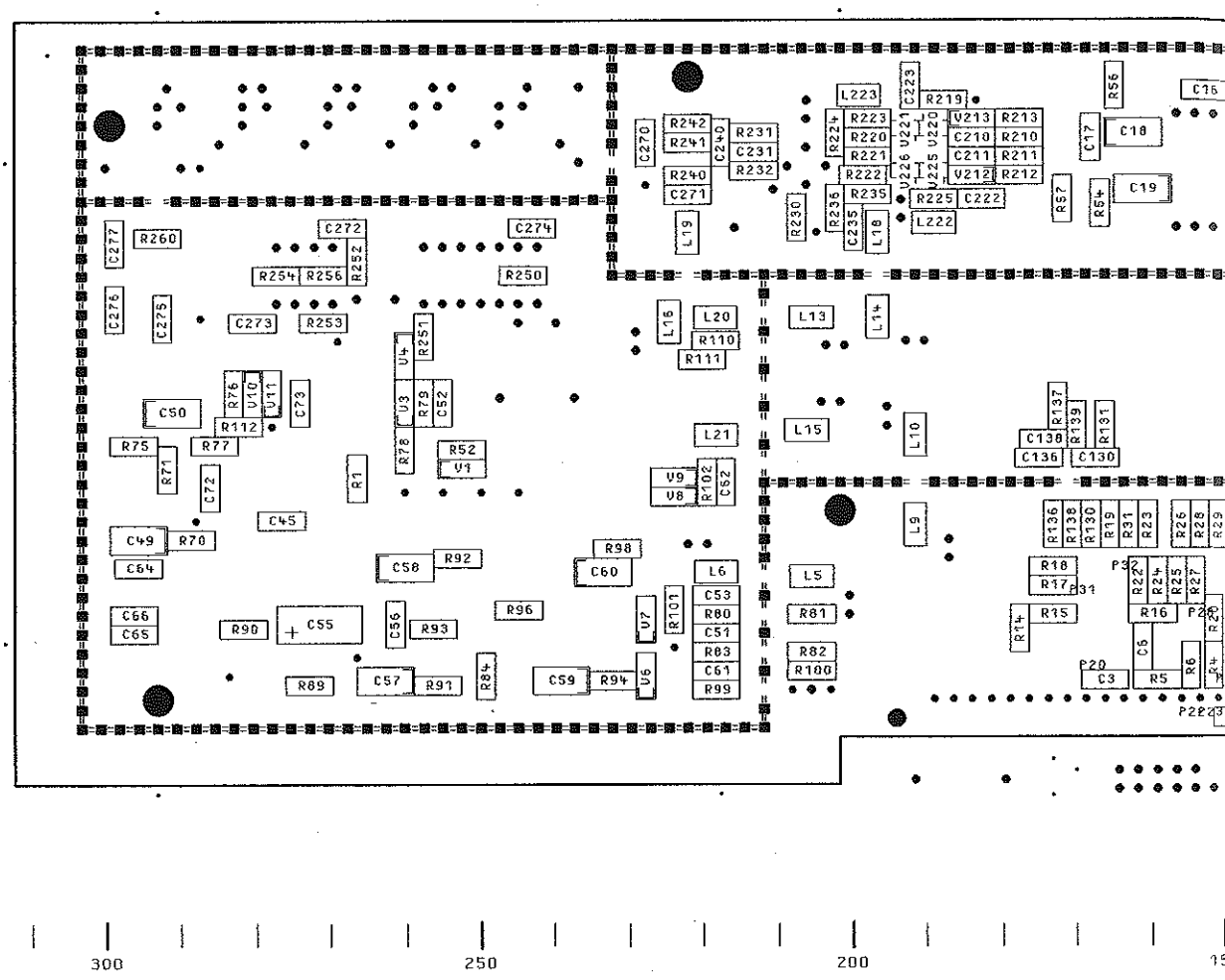
250 200 150 100

EGB!
GEFAEHRDETE
ORDERN EINE
NDHABUNG.
ESD!
SITIVE DEVICES
AL HANDLING

BINDENDE ANGABEN UEBER VARIANTEN,
TRIMMWERTE, BAUTEILWERTE UND
NICHT BESTUECKTE BAUTEILE SIEHE SA.

FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST.

01/		
/		
AEND. IND.	AENDERUNGS-MITTEILUNG	DATU



FUER DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE VOR.
DIESE ZEICHNUNG IST EIN RECHNERAUSDRUCK, AENDERUNGEN KOENNEN NUR DURCH RENDERN DES DATENSATZES ERFOLGEN

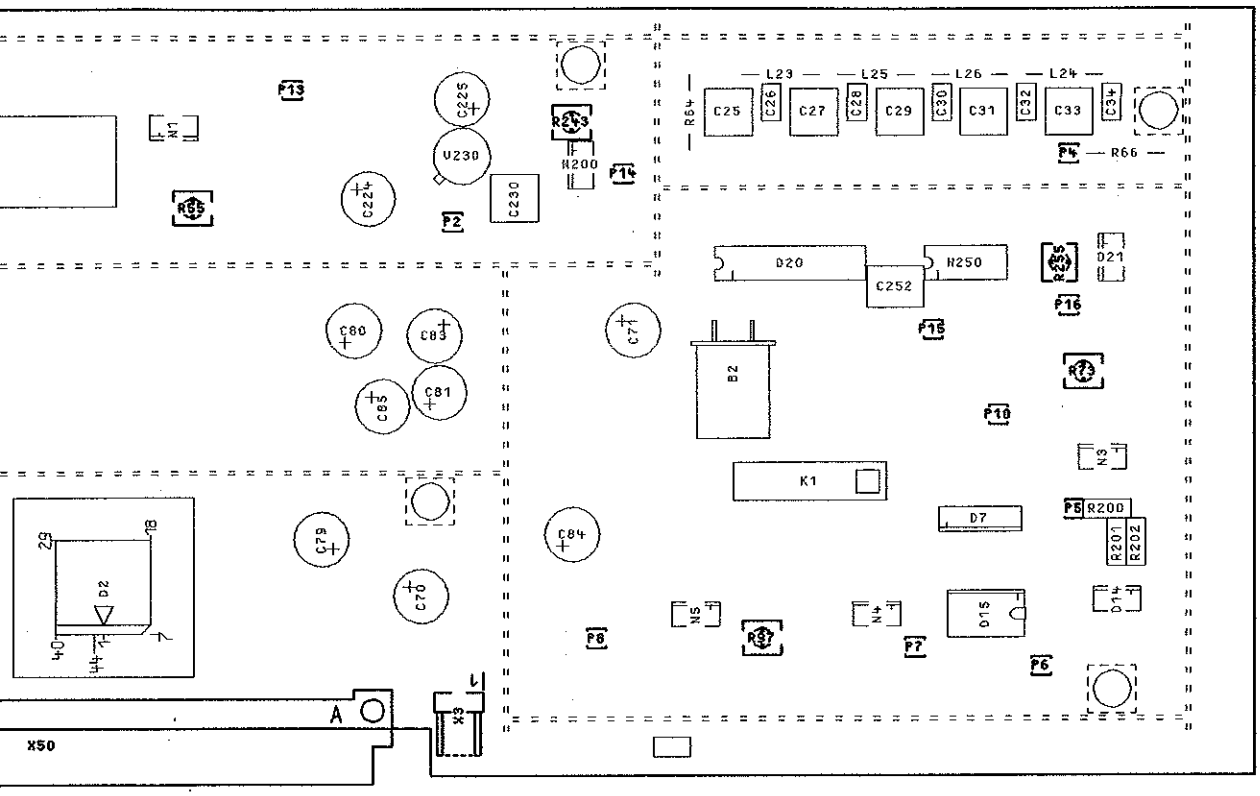
DARSTELLUNG SEITE A

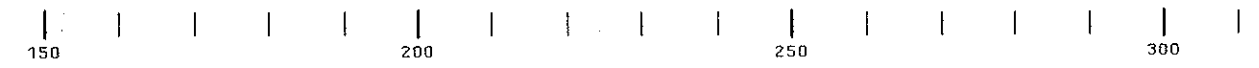
VIEW ON SIDE A

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN UEBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

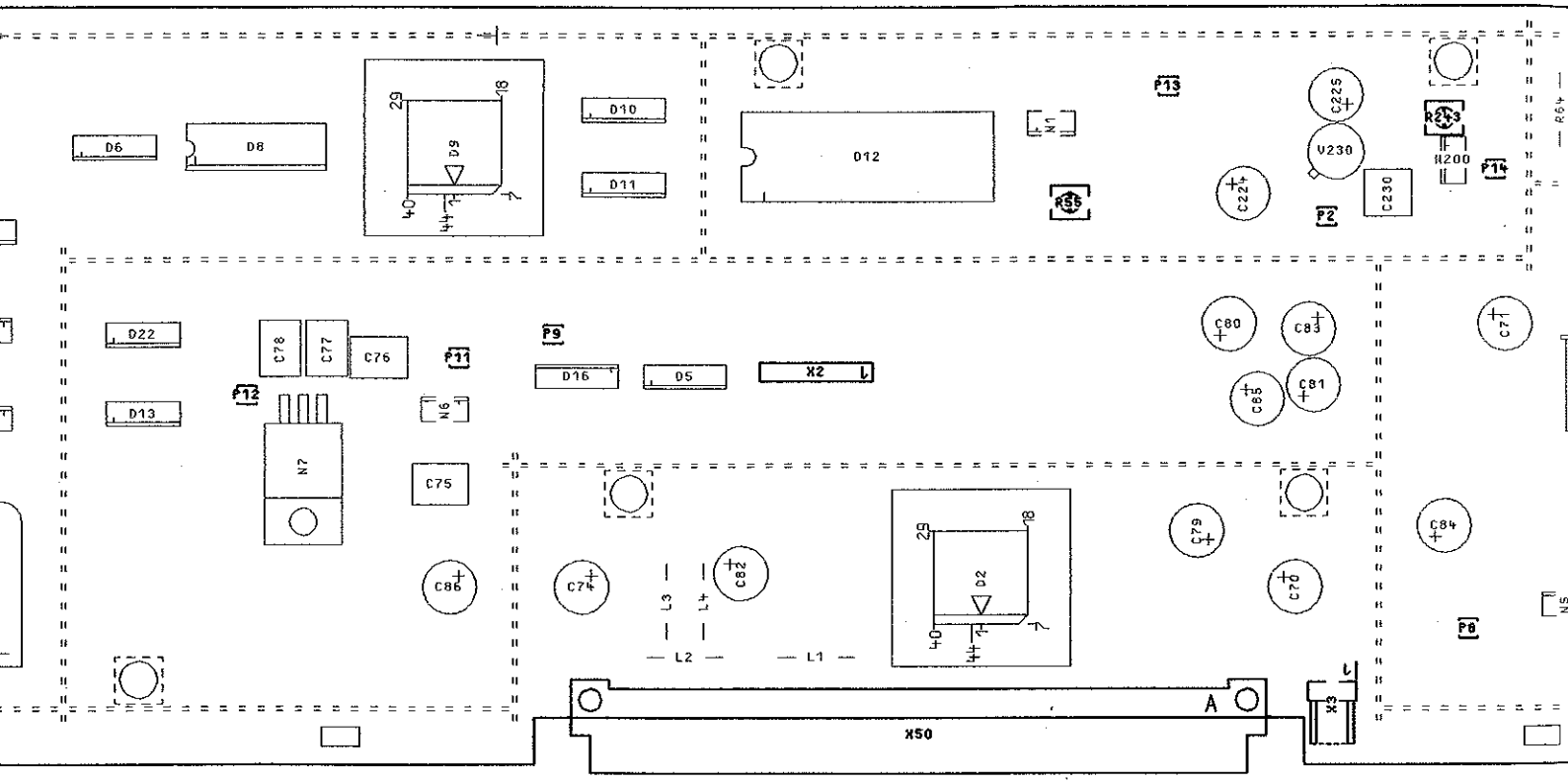




01/				1GPK	TAG	NAME	BENENNUNG
				BEARB.		BU	LF GENERATOR
				GEPR.			
				NORM			
				PLOTT	08.05.94		
/				ROHDE&SCHWARZ			ZEICHN.-NR. 1036.7960.01 EE
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET SM-B2			REG.-I.V. 1036.7947 ERSTE Z. 000.0000

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BLATT-NR. 1+ V. BL.



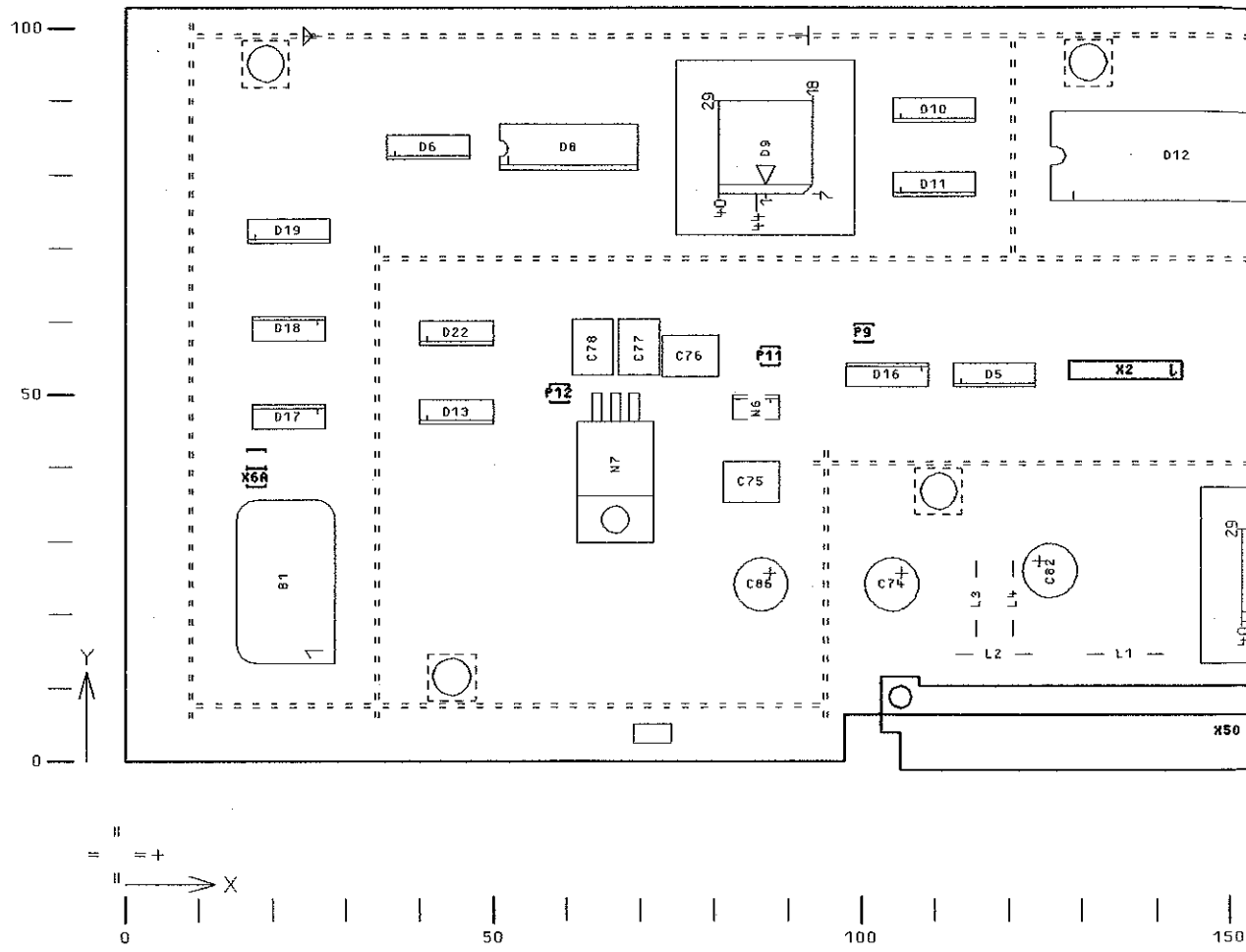
50 100 150 200

ITUNG: EGB!
OSTATISCH GEFAEHRDETE
EMENTE ERFORDERN EINE
SONDERE HANDHABUNG.
ENTION ESD!
STATIC SENSITIVE DEVICES
RE A SPECIAL HANDLING

BINDENDE ANGABEN UEBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

01/	
/	
REND. IND.	AENDERUNGS-MITTEILUNG



DARSTELLUNG SEITE B

VIEW ON SIDE B

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.

ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN UEBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE SA.

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