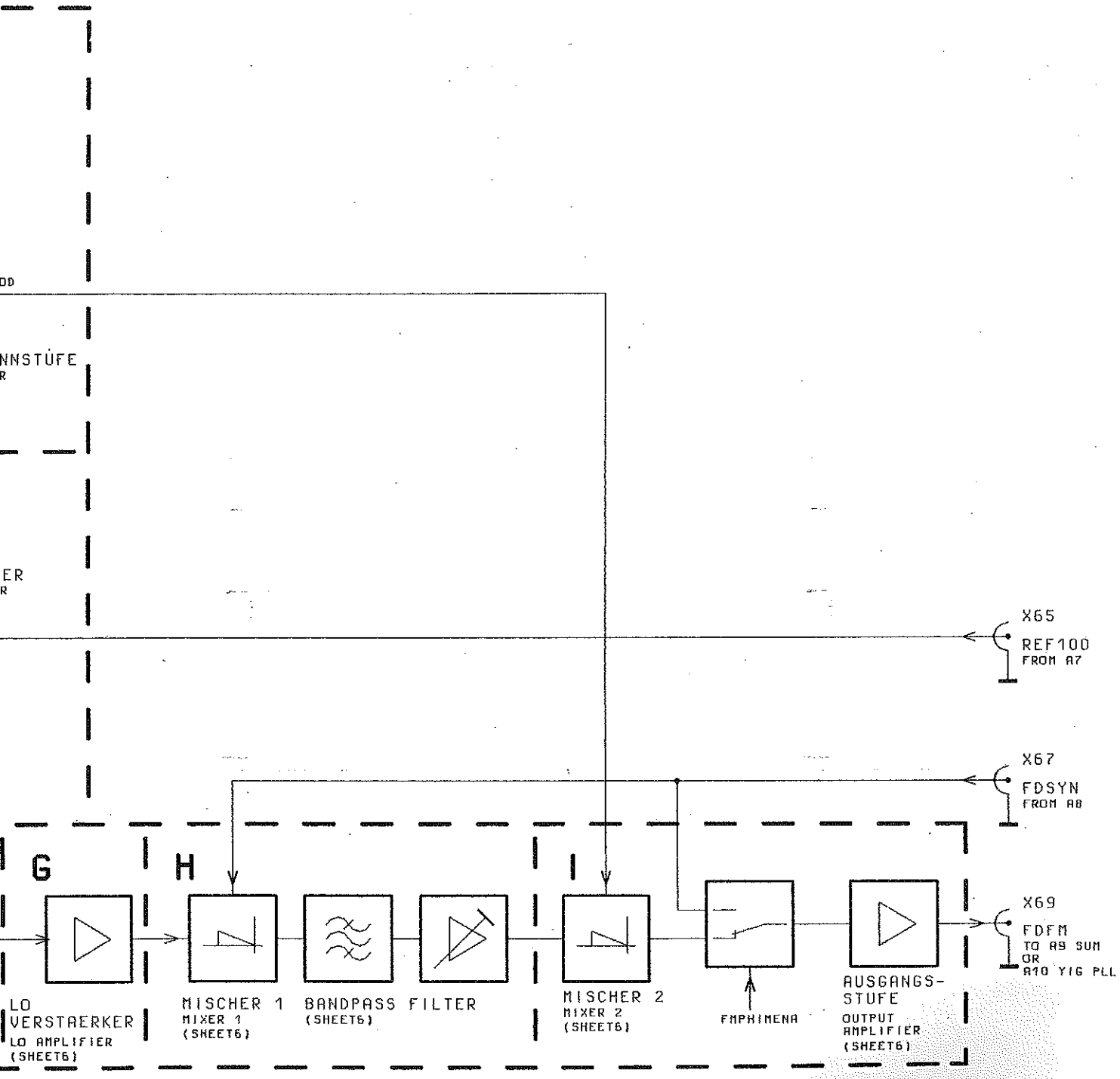
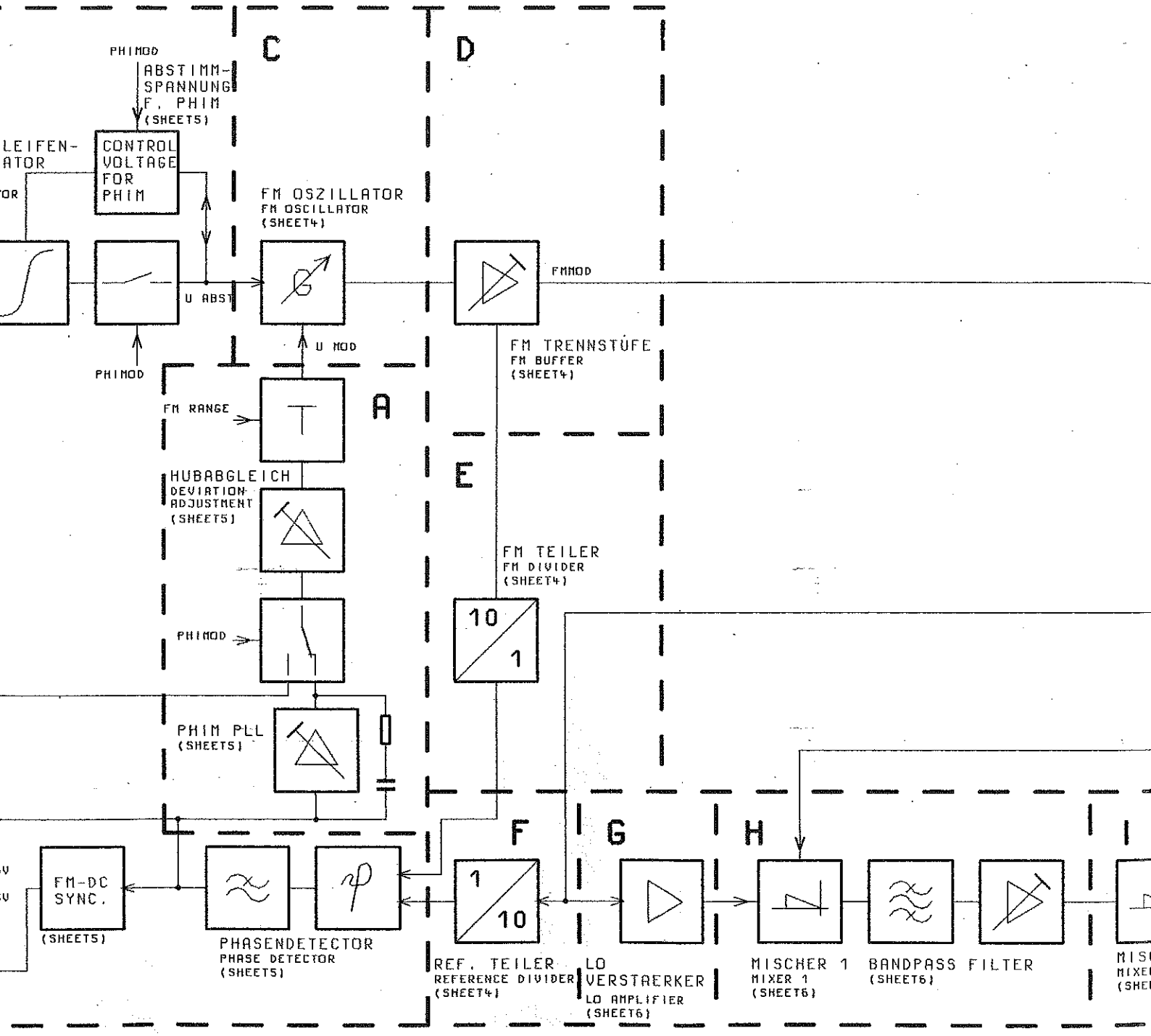


04/01	48743 09	28.05.93	BU	1GPK	TAG	NAME	BENENNUNG
				BEARB.		BAUR	FM MODULATOR
				GEPR.		BU	FM MODULATOR
				NORM			
				PLOTT	26.05.93		
02/01	48743 07	17.03.93	BU	ROHDE&SCHWARZ			ZEICHN.-NR. 1036.8508.01S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET SM-B5			REG.I.V. 1036.8489 ERSTE Z.

BLATT-NR. 1+ V. BL.

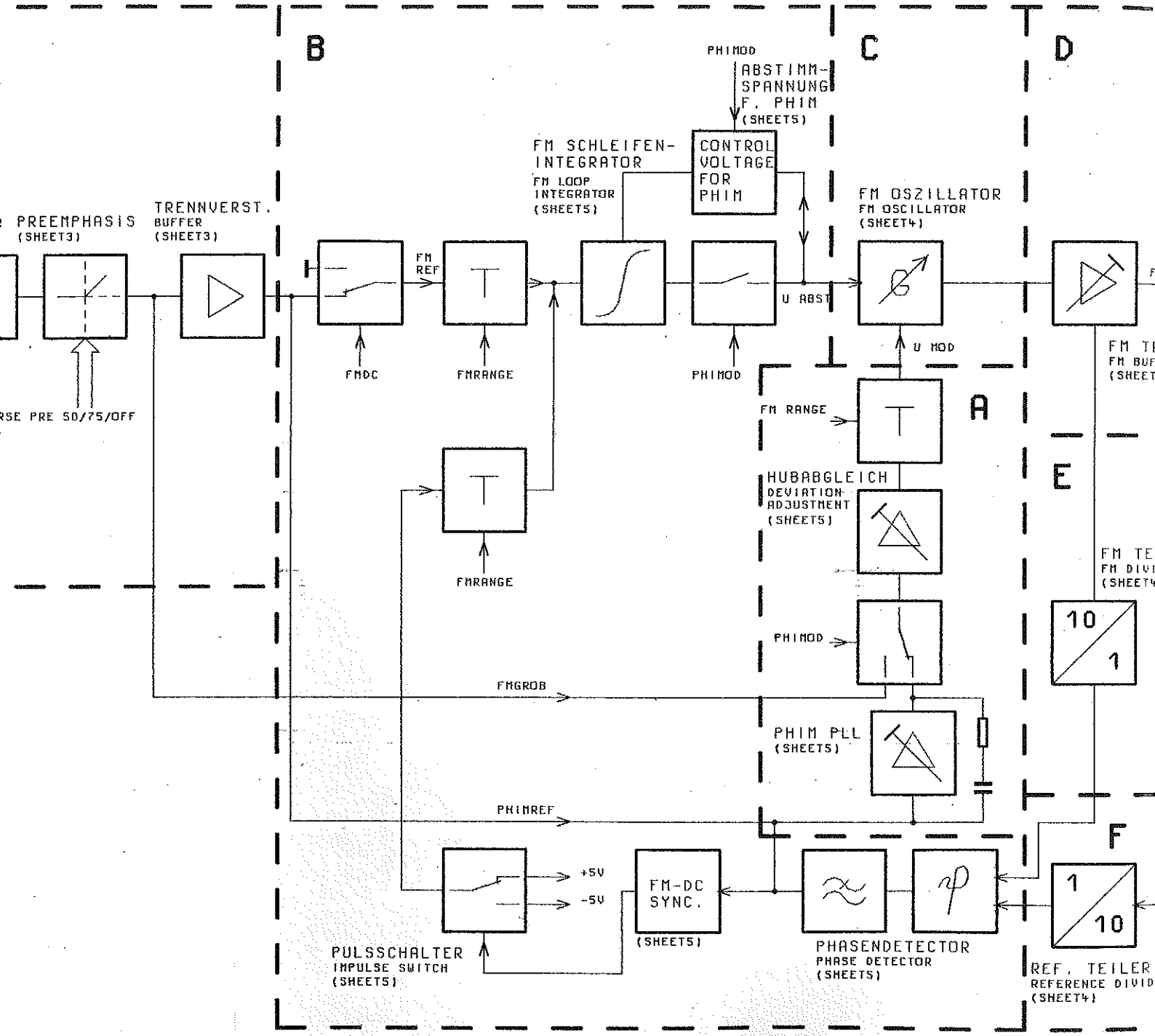


04/01	48743 09	28.05.93	BU	1GPK	TAG	NA
				BEARB.		B
				GEPR.		B
				NORM		
				PLOTT	26.05.93	
02/01	48743 07	17.03.93	BU			
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET	SM-85	

ROHDE&SCHWA

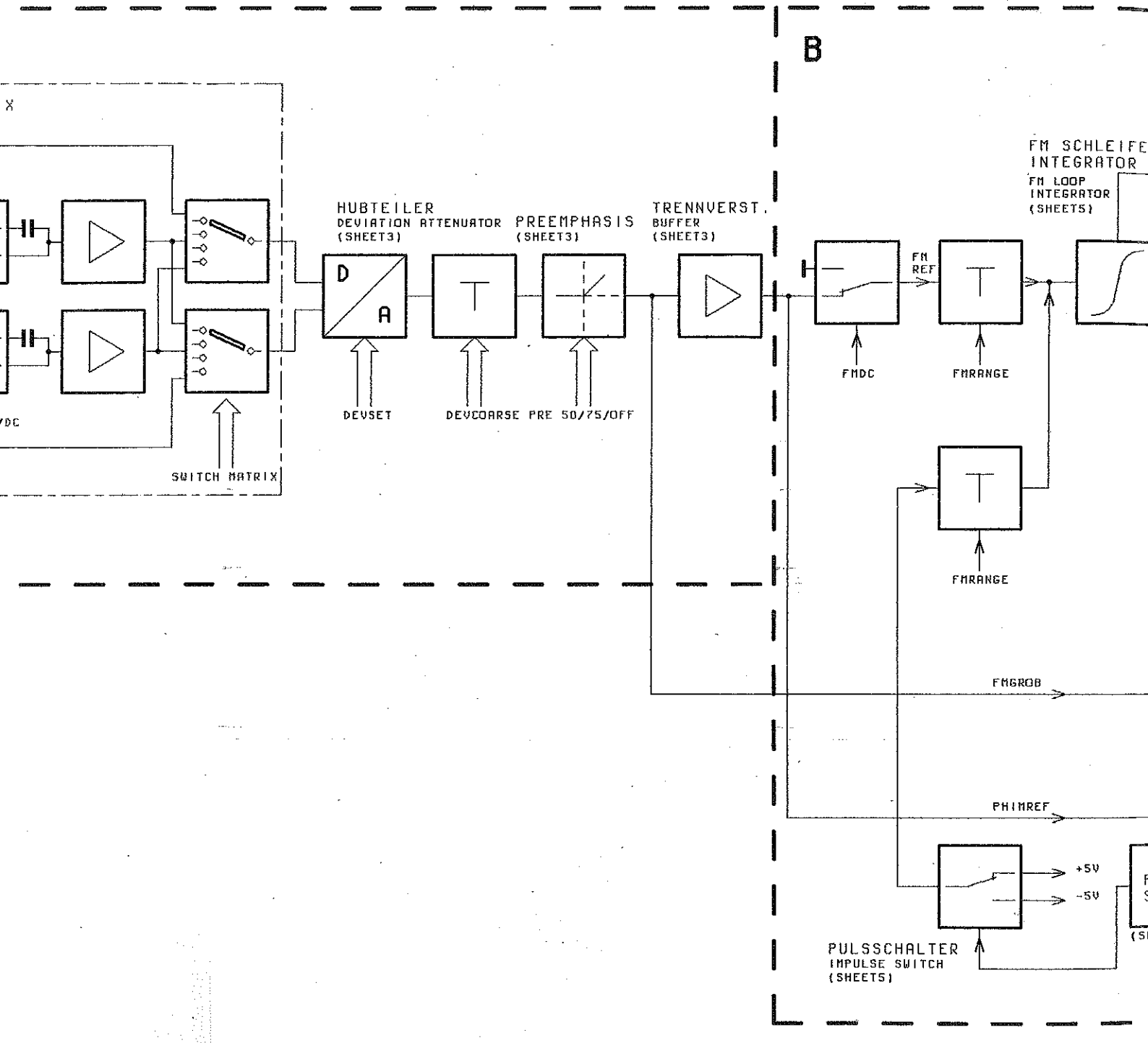
STROMLAUF GILT FUER VAR.02

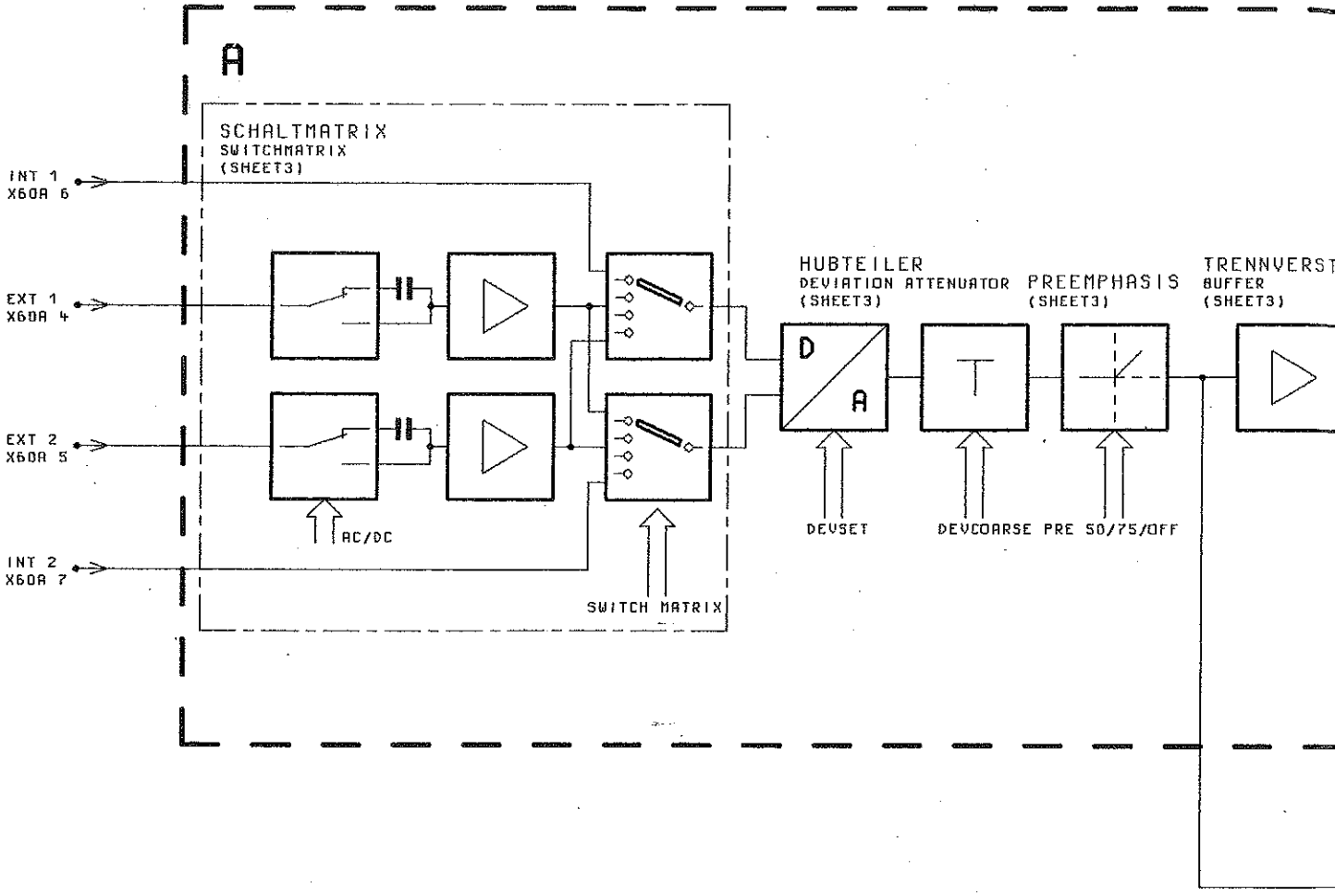
CIRCUIT DIAGRAM IS VALID FOR MOD.02



STROMLAUF GILT FUER VA

CIRCUIT DIAGRAM IS VALID FOR MO


B
X
HUBTEILER
DEVIATION ATTENUATOR
(SHEET3)
PREEMPHASIS
(SHEET3)
TRENNVERST.
BUFFER
(SHEET3)
FM SCHLEIFE
INTEGRATOR
FM LOOP
INTEGRATOR
(SHEET5)
D
A
FM
REF
FMDC
FMRANGE
FMRANGE
DEVSET
DEVCOARSE
PRE 50/75/OFF
SWITCH MATRIX
FMGROB
PHIMREF
+5V
-5V
PULSSCHALTER
IMPULSE SWITCH
(SHEET5)

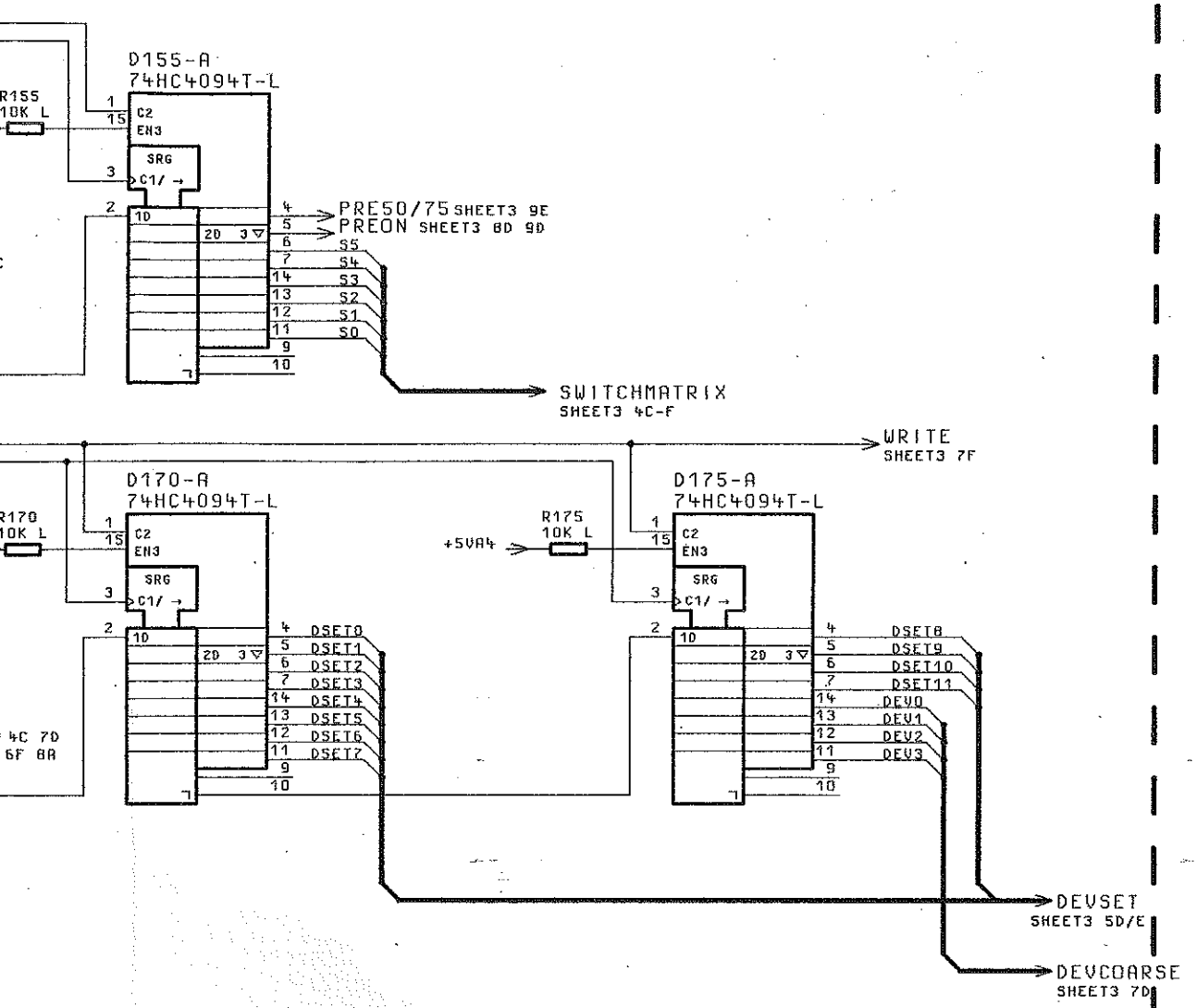


FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1036.8508.01 S

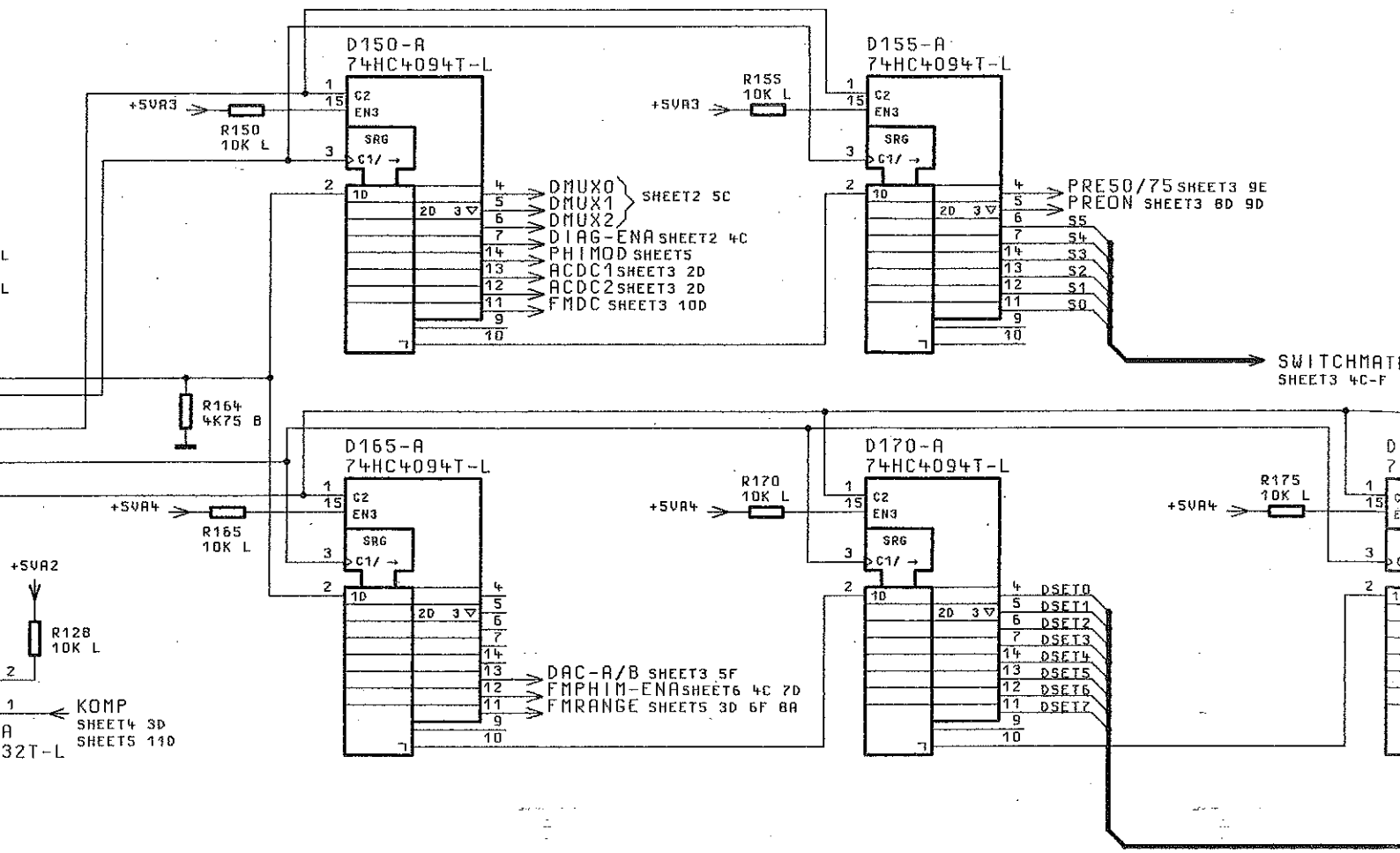
F E D C B A

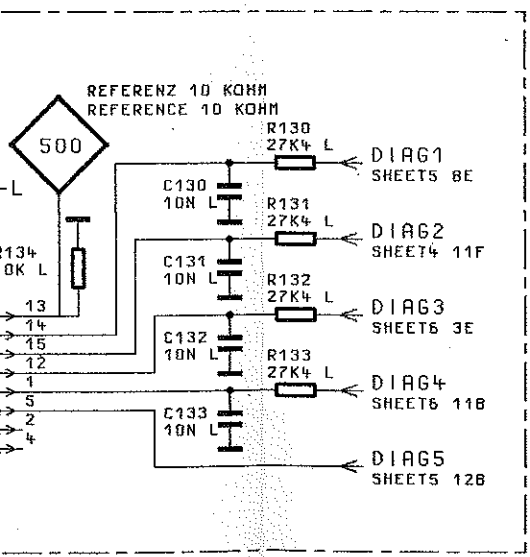
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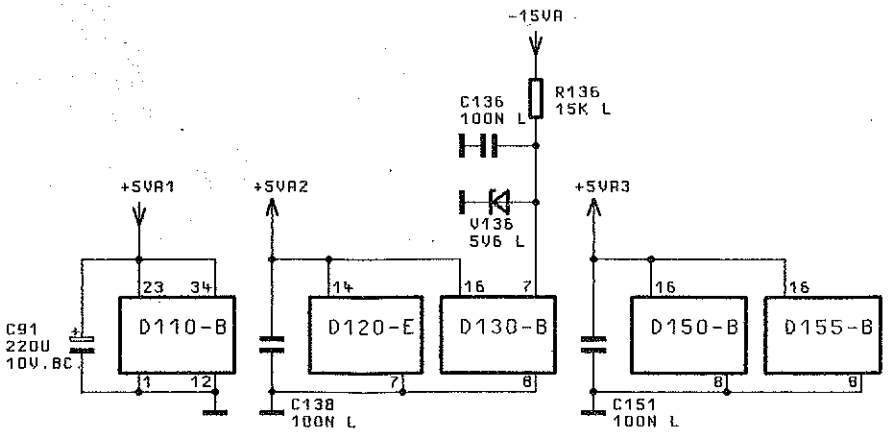


04/01	48743 09	28.05.93	BU	1GPK	TAG	NAME	BENENNUNG	
				BEARB.		BAUR	FM MODULATOR	
				GEPR.		BU	FM MODULATOR	
				NORM				
				PLOTT	26.05.93			
02/01	48743 07	17.03.93	BU	ROHDE&SCHWARZ			ZEICHN.-NR. 1036.8508.01S	BLATT-NR. 2+
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERRET SM-85			REG.L.V. 1036.8489	ERSTE Z.

RTRAGUNG







* NICHT BESTUECKT

NOT FITTED

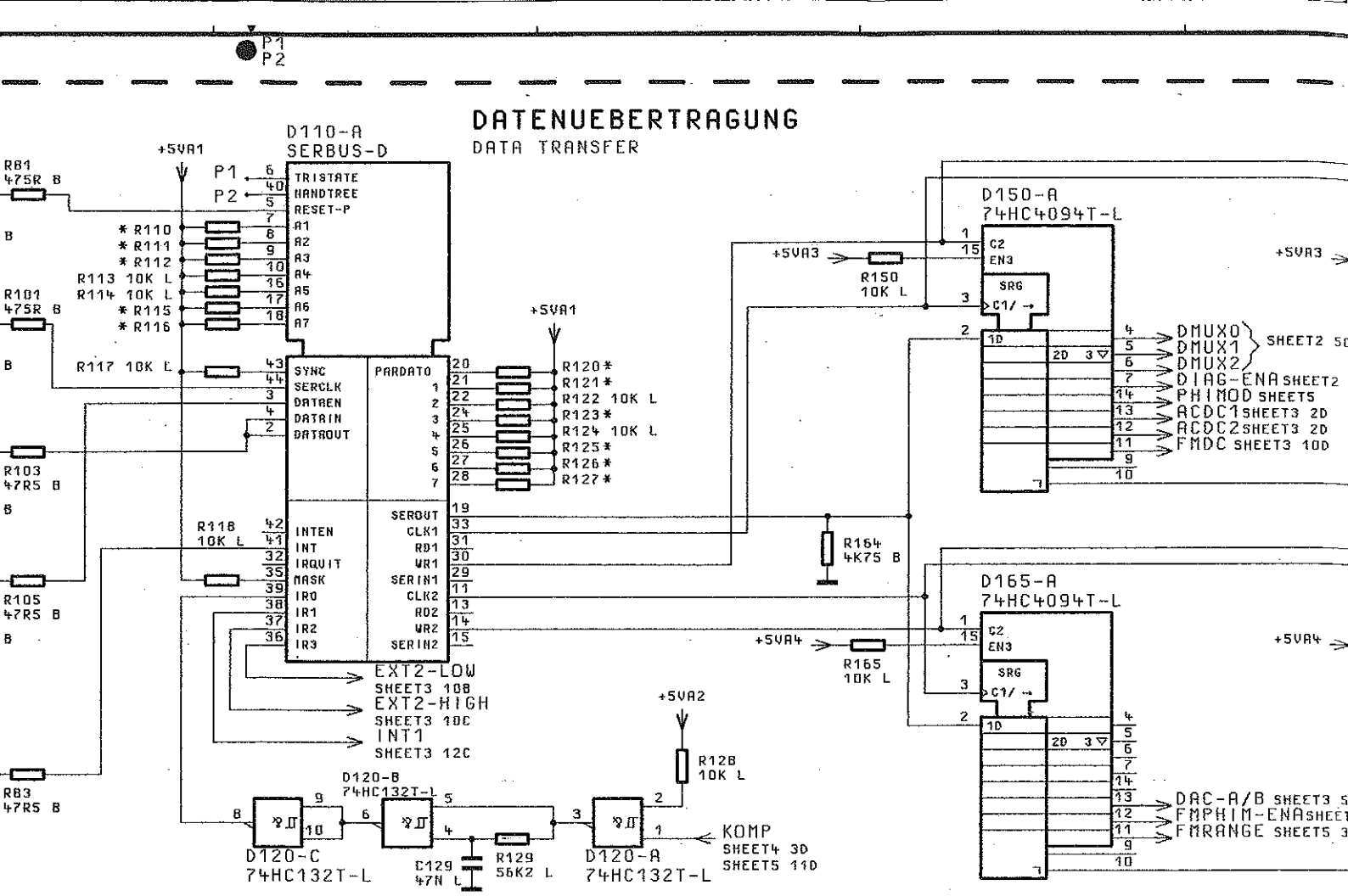
STROMLAUF GILT FUER VAR.02

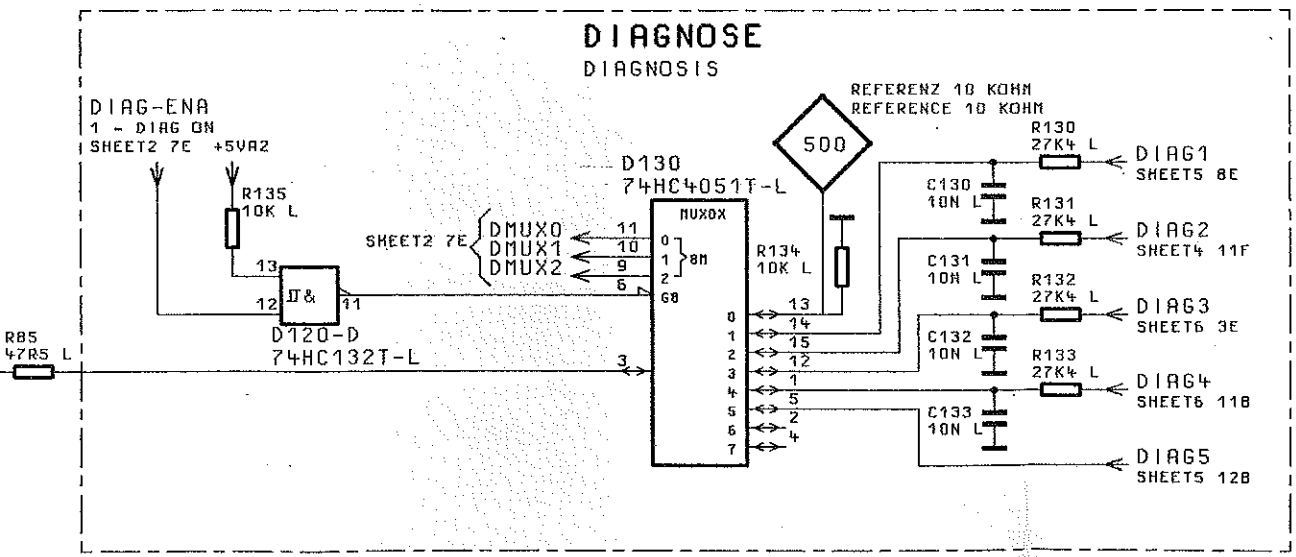
CIRCUIT DIAGRAM IS VALID FOR MOD.02

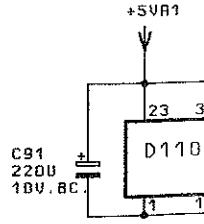
ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

04/01	48743 09	28.05.93	BU	1GPK	TAG
				BEARB.	
				GEPR.	
				NORM	
				PLOTT	26.05.93
02/01	48743 07	17.03.93	BU		
AEND. IND.	AENDERUNGS-MITTEILUNG.	DATUM	NAME		

ROHDE&SC
ZU GERAET SM-B





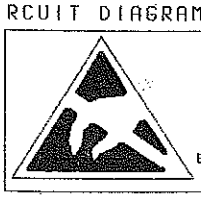


* NICHT BESTUECKT

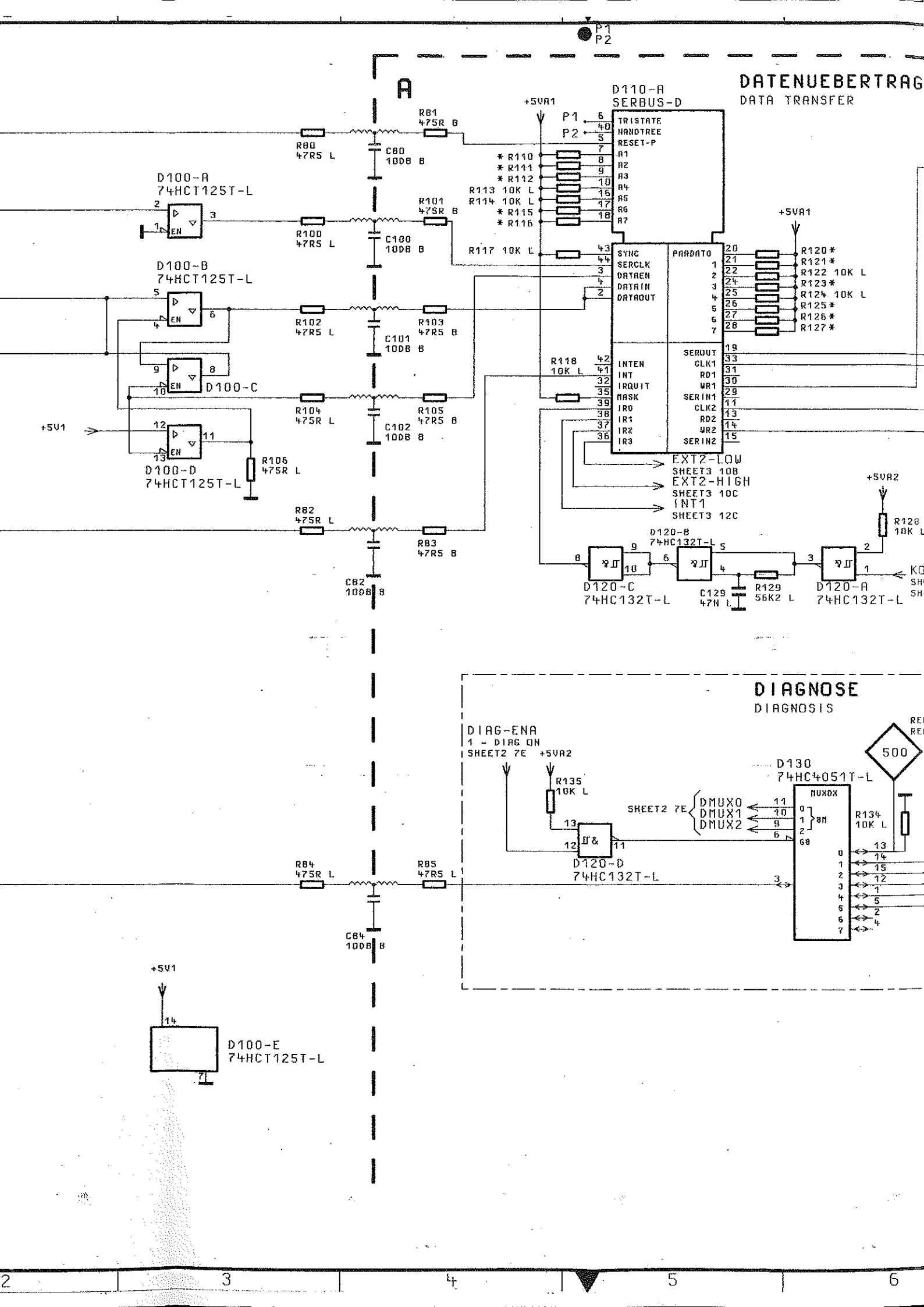
NOT FITTED

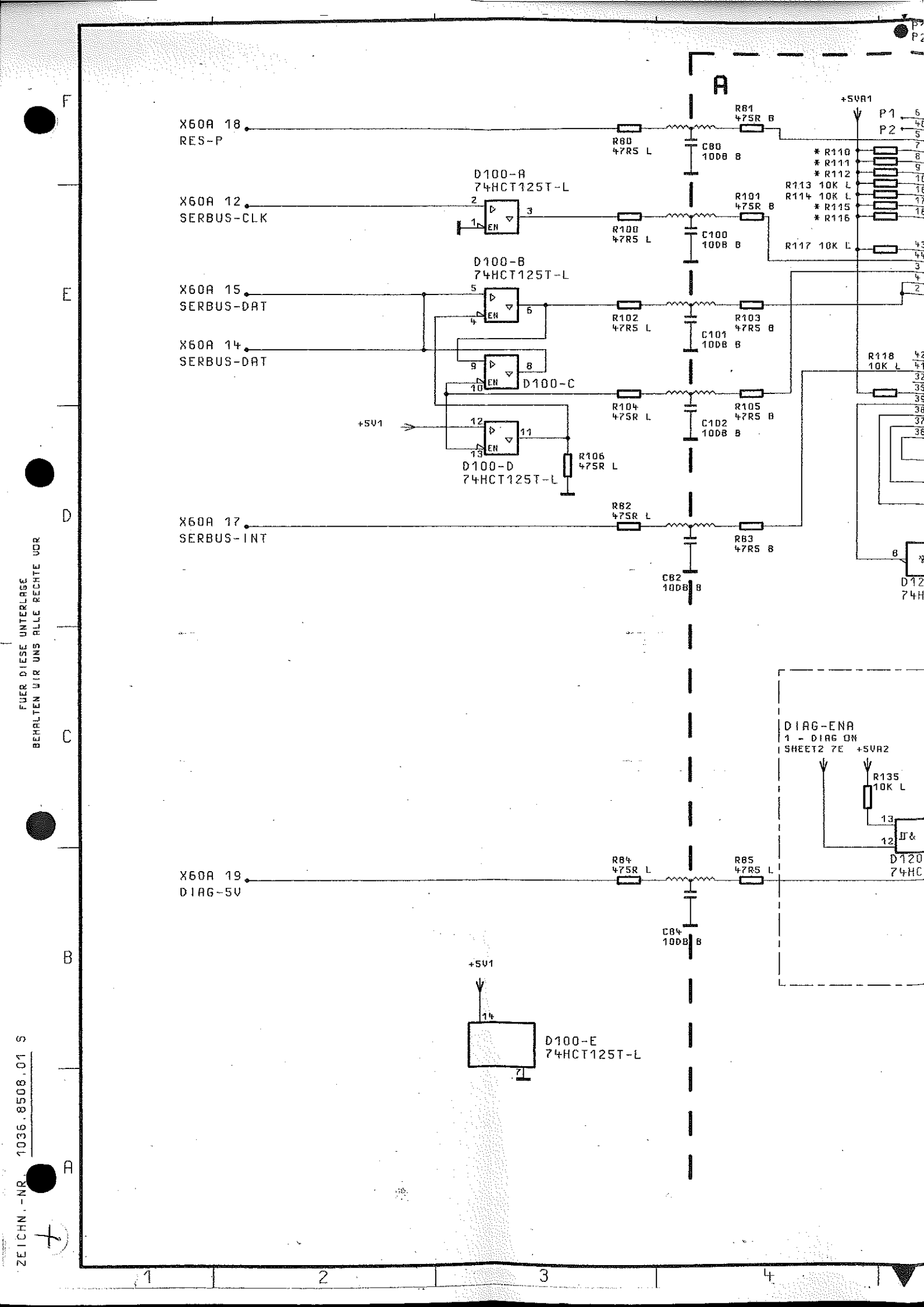
STROMLAUF GILT FUER

CIRCUIT DIAGRAM IS VALID FOR MO

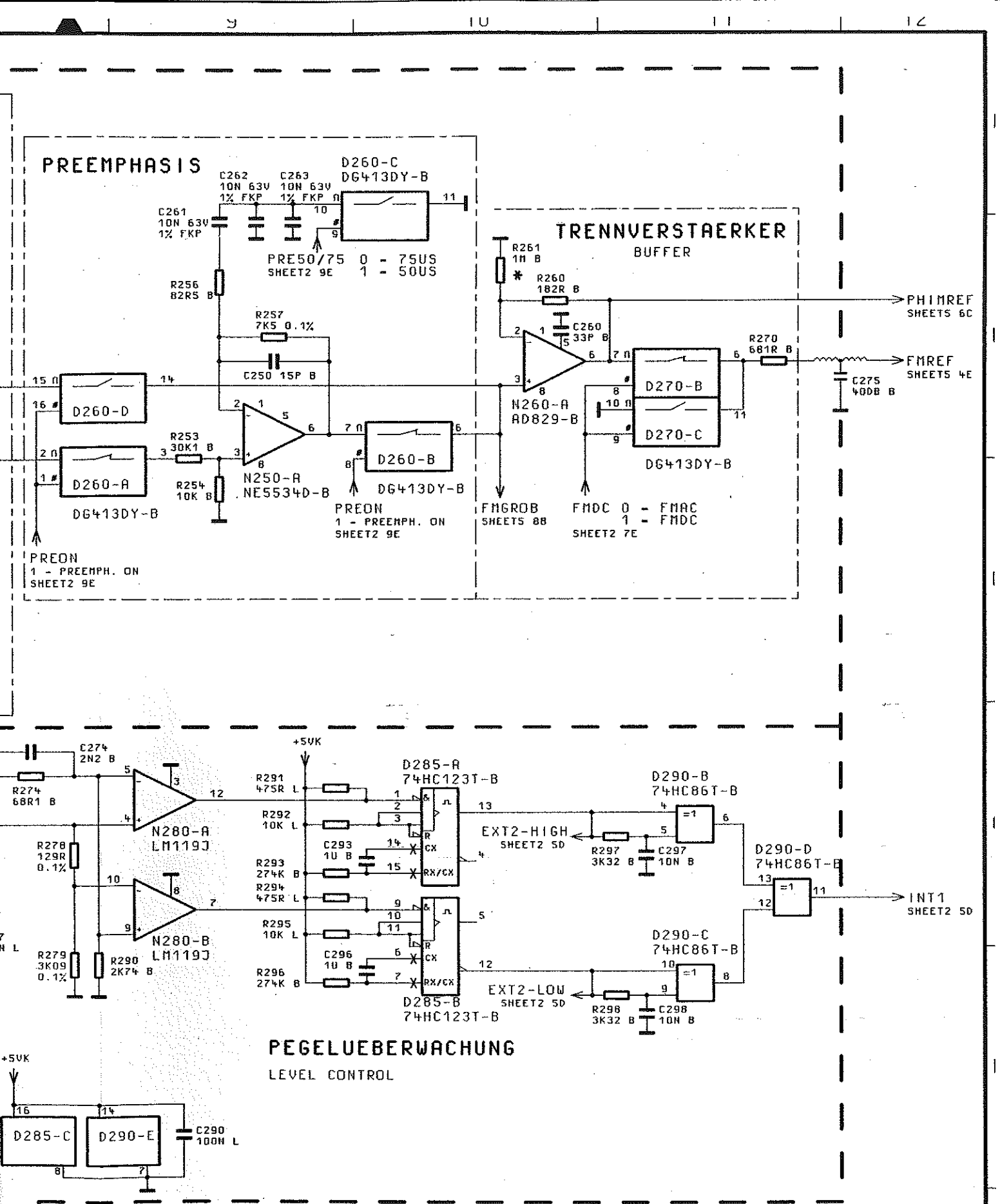


ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDE
BAUELEMENTE ERFORDERN E
BESONDERE HANDHABUNG
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DE
REQUIRE A SPECIAL HANDL


P1
P2
A
DATENUEBERTRAG
DATA TRANSFER
D110-A
SERBUS-D
+5VA1
P1
P2
TRISTATE
HANDTREE
RESET-P
A1
A2
A3
A4
A5
A6
A7
* R110
* R111
* R112
R113 10K L
R114 10K L
* R115
* R116
R117 10K L
SYNC
SERCLK
DATAEN
DATAIN
DATAOUT
PARDATO
SEROUT
CLK1
RD1
WR1
SERIN1
CLK2
RD2
WR2
SERIN2
INTEN
INT
IRQUIT
MASK
IR0
IR1
IR2
IR3
R118 10K L
R120*
R121*
R122 10K L
R123*
R124 10K L
R125*
R126*
R127*
EXT2-LOW
SHEET3 10B
EXT2-HIGH
SHEET3 10C
INT1
SHEET3 12C
D100-A
74HCT125T-L
D100-B
74HCT125T-L
D100-C
D100-D
74HCT125T-L
D100-E
74HCT125T-L
+5V1
R80 47R5 L
R81 475R B
R82 475R L
R83 47R5 B
R84 475R L
R85 47R5 L
R100 47R5 L
R101 475R B
R102 47R5 L
R103 47R5 B
R104 475R L
R105 47R5 B
R106 475R L
C80 100B B
C82 100B B
C84 100B B
C100 100B B
C101 100B B
C102 100B B
D120-A
74HC132T-L
D120-B
74HC132T-L
D120-C
74HC132T-L
D120-D
74HC132T-L
+5VA2
R128 10K L
R129 56K2 L
C129 47N L
DIAGNOSE
DIAGNOSIS
DIAG-ENA
1 - DIAG ON
SHEET2 7E
+5VA2
R135 10K L
D130
74HC4051T-L
MUXDX
SHEET2 7E
DMUX0
DMUX1
DMUX2
R134 10K L
500

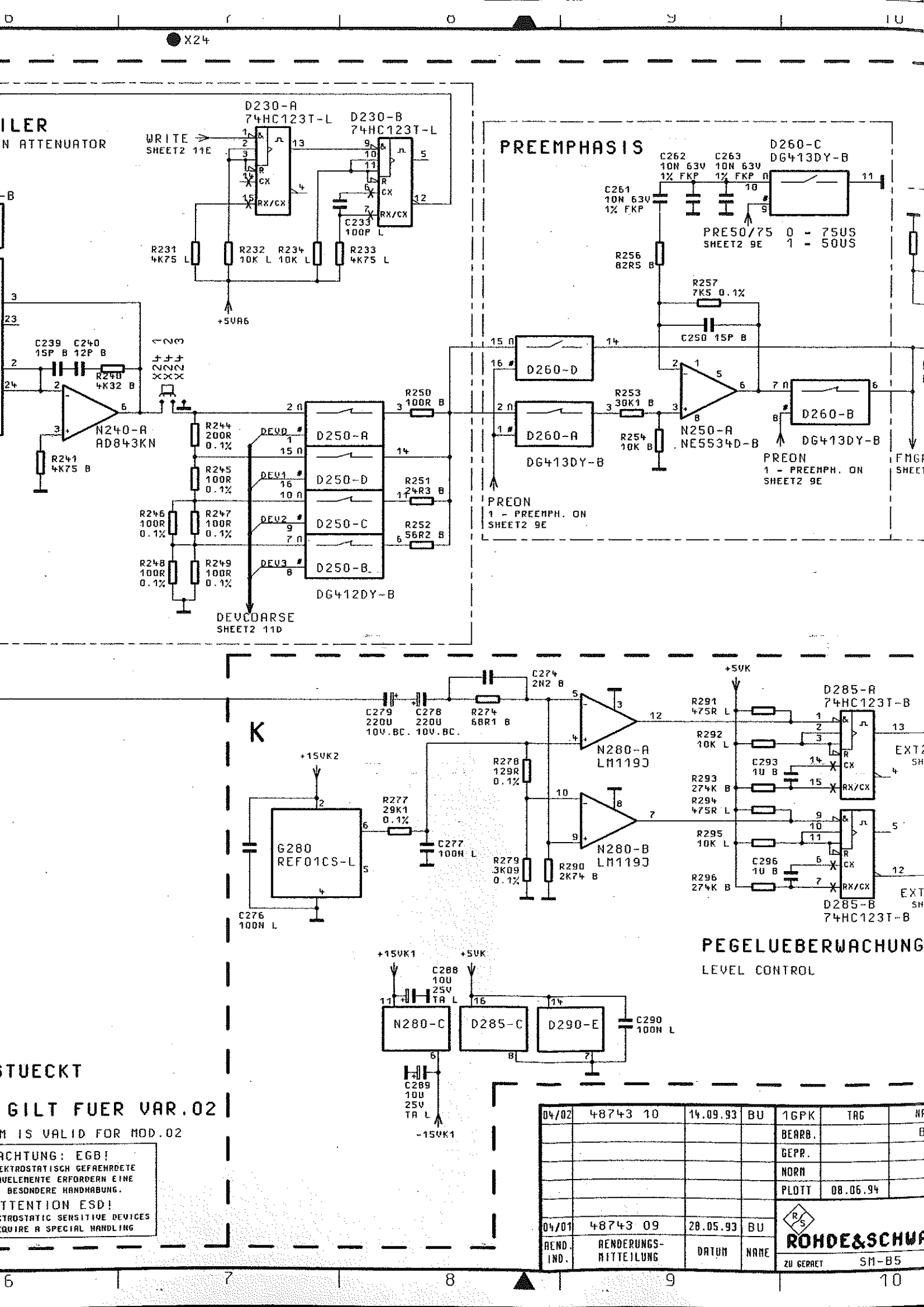


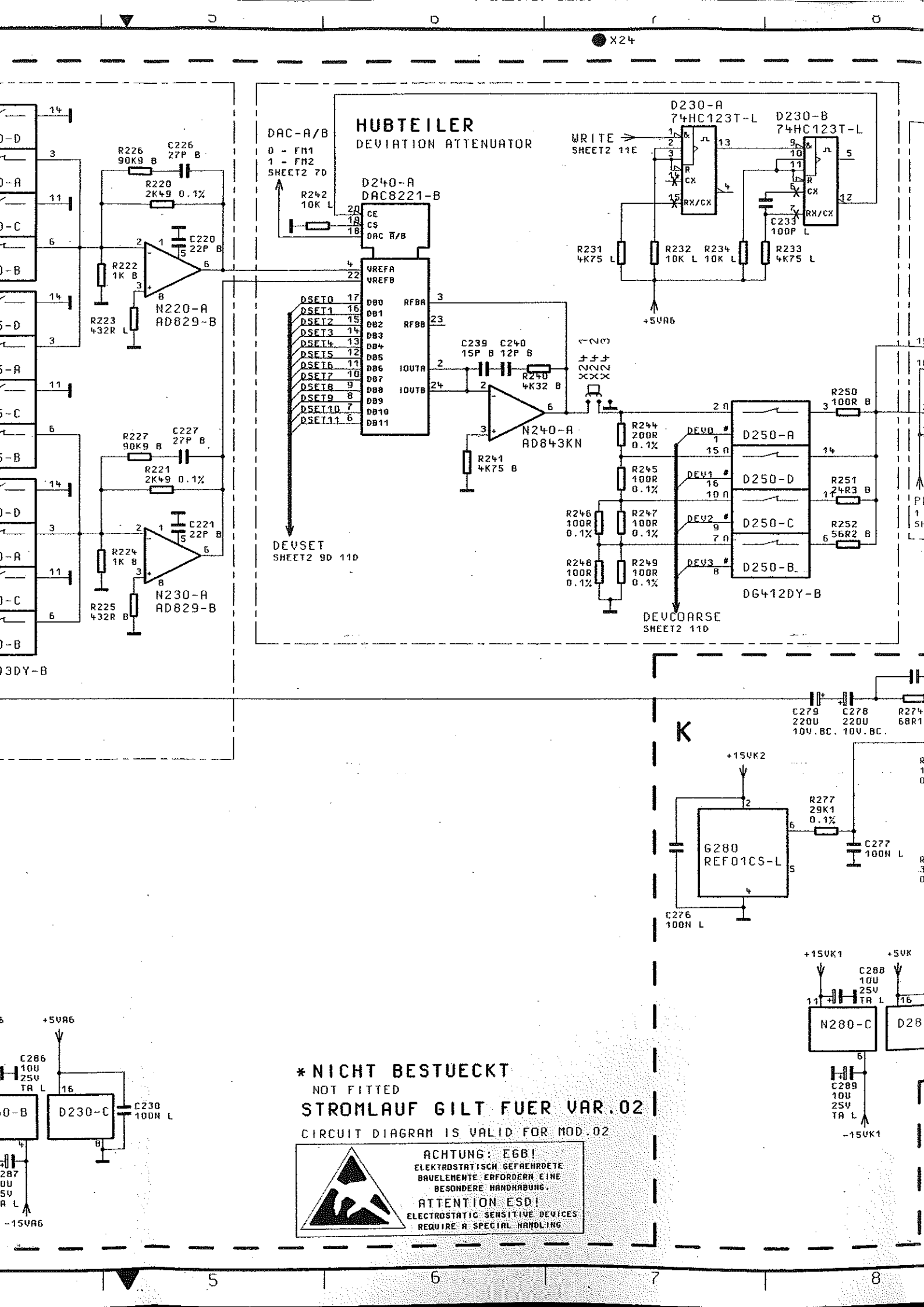
FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

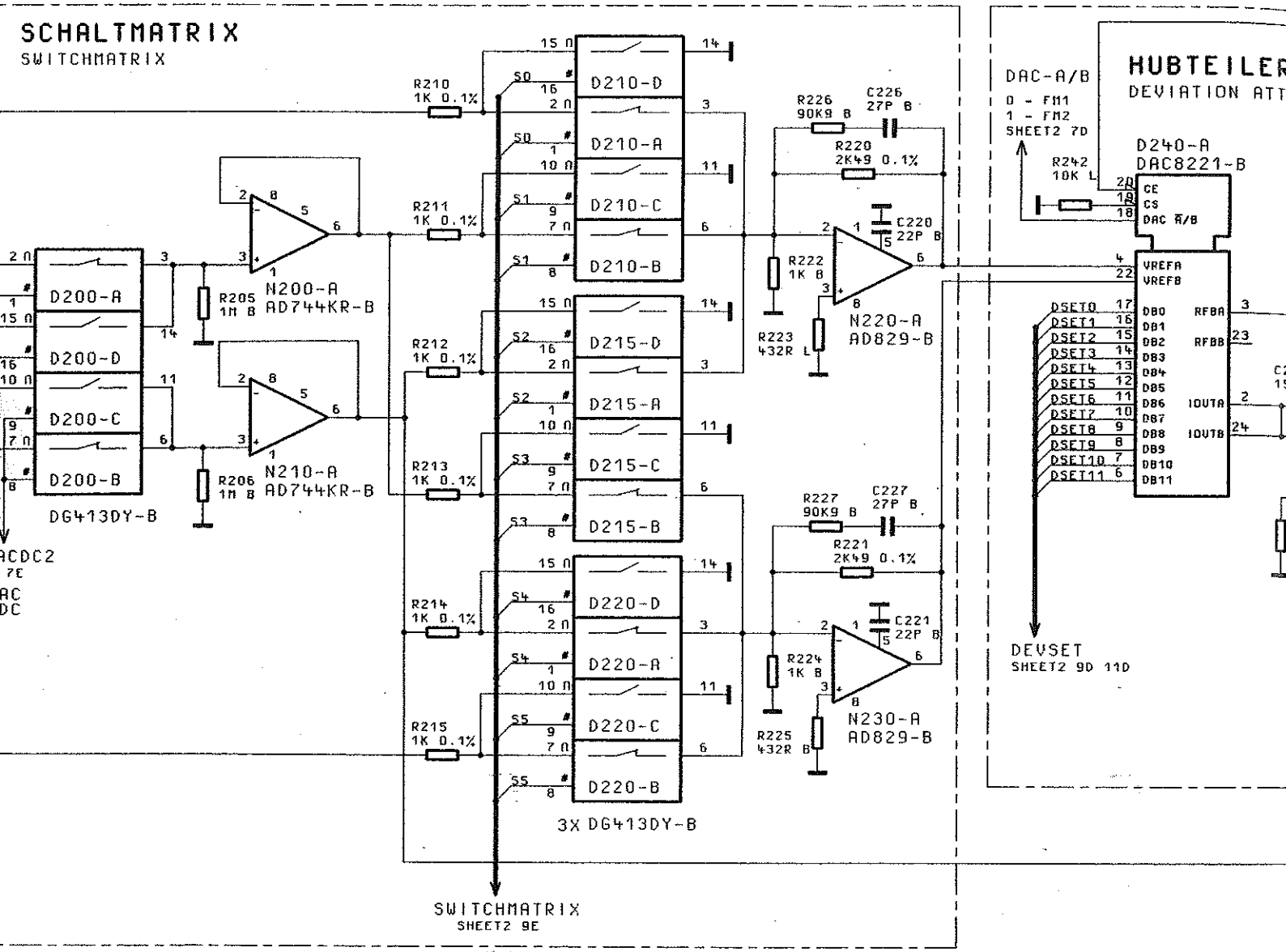


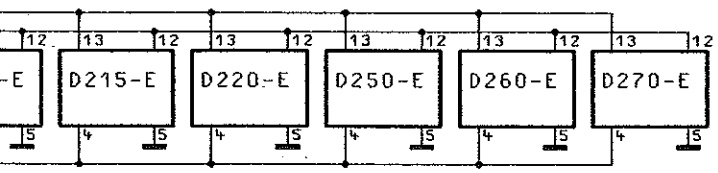
04/02	48743 10	14.09.93	BU	1GPK	TAG	NAME	BENENNUNG.
				BEARB.		BU	FM MODULATOR
				GEPR.			FM MODULATOR
				NORM			
				PLOTT	08.06.94		
04/01	48743 09	28.05.93	BU	ROHDE&SCHWARZ			ZEICHN.-NR. 1036.8508.01S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET SM-B5			REG.I.V. 1036.8489 ERSTE Z.

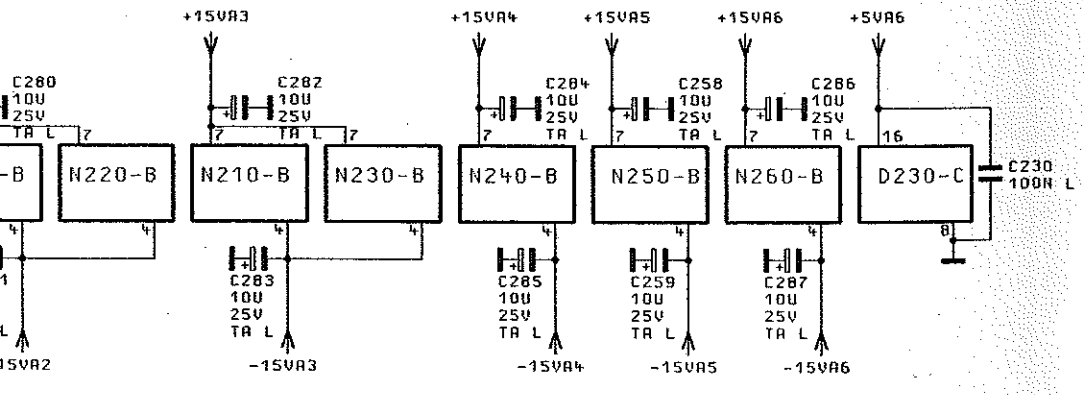
BLATT-NR. 3+ V. BL.


X24
ILER
N ATTENUATOR
D230-A
74HC123T-L
D230-B
74HC123T-L
WRITE
SHEET2 11E
C233
100P L
R231
4K75 L
R232
10K L
R234
10K L
R233
4K75 L
+5VA6
PREEMPHASIS
D260-C
DG413DY-B
C262
10N 63V
1% FKP
C263
10N 63V
1% FKP
C261
10N 63V
1% FKP
PRE50/75 0 - 75US
SHEET2 9E 1 - 50US
R256
82R5 B
R257
7K5 0.1%
C250 15P B
C239
15P B
C240
12P B
R240
4K32 B
N240-A
AD843KN
R241
4K75 B
R244
200R
0.1%
R245
100R
0.1%
R246
100R
0.1%
R247
100R
0.1%
R248
100R
0.1%
R249
100R
0.1%
DEV0
DEV1
DEV2
DEV3
D250-A
D250-D
D250-C
D250-B
DG412DY-B
R250
100R B
R251
24R3 B
R252
56R2 B
DEVCOARSE
SHEET2 11D
D260-D
D260-A
DG413DY-B
R253
30K1 B
R254
10K B
N250-A
NE5534D-B
D260-B
DG413DY-B
PREON
1 - PREEMPH. ON
SHEET2 9E
PREON
1 - PREEMPH. ON
SHEET2 9E
C274
2N2 B
C279
220U
10V.BC.
C278
220U
10V.BC.
R274
68R1 B
N280-A
LM119J
+15VK2
R278
129R
0.1%
R277
29K1
0.1%
G280
REF01CS-L
C277
100N L
C276
100N L
N280-B
LM119J
R279
3K09
0.1%
R290
2K74 B
+5VK
D285-A
74HC123T-B
R291
475R L
R292
10K L
R293
274K B
R294
475R L
R295
10K L
R296
274K B
C293
1U B
C296
1U B
D285-B
74HC123T-B
PEGELUEBERWACHUNG
LEVEL CONTROL
+15VK1
+5VK
C288
10U
25V
TA L
N280-C
D285-C
D290-E
C290
100N L
C289
10U
25V
TA L
-15VK1
STUECKT
GILT FUER VAR.02
M IS VALID FOR MOD.02
ACHTUNG: EGB!
EKTROSTATISCH GEFAEHRDETE
UELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
TTENTION ESD!
CTROSTATIC SENSITIVE DEVICES
QUIRE A SPECIAL HANDLING
04/02 48743 10 14.09.93 BU
04/01 48743 09 20.05.93 BU
AEND. IND. AENDERUNGS-MITTEILUNG DATUM NAME
16PK TAG
BEARB.
GEPR.
NORM
PLOTT 08.06.94
ROHDE&SCHWA
ZU GERAET SM-B5


HUBTEILER
DEVIATION ATTENUATOR
DAC-A/B
0 - FM1
1 - FM2
SHEET2 7D
D240-A
DAC8221-B
R242
10K L
CE
CS
DAC A/B
VREFA
VREFB
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
DB8
DB9
DB10
DB11
RFBA
RFBB
IOUTA
IOUTB
DSET0
DSET1
DSET2
DSET3
DSET4
DSET5
DSET6
DSET7
DSET8
DSET9
DSET10
DSET11
DEVSET
SHEET2 9D 11D
D230-A
74HC123T-L
D230-B
74HC123T-L
WRITE
SHEET2 11E
C233
100P L
R231
4K75 L
R232
10K L
R234
10K L
R233
4K75 L
+5VA6
C239
15P B
C240
12P B
R240
4K32 B
N240-A
AD843KN
R241
4K75 B
R244
200R
0.1%
R245
100R
0.1%
R246
100R
0.1%
R247
100R
0.1%
R248
100R
0.1%
R249
100R
0.1%
DEV0
DEV1
DEV2
DEV3
D250-A
D250-D
D250-C
D250-B
DG412DY-B
R250
100R B
R251
24R3 B
R252
56R2 B
DEVCOARSE
SHEET2 11D
R226
90K9 B
C226
27P B
R220
2K49 0.1%
C220
22P B
R222
1K B
R223
432R L
N220-A
AD829-B
R227
90K9 B
C227
27P B
R221
2K49 0.1%
C221
22P B
R224
1K B
R225
432R B
N230-A
AD829-B
C279
220U
10V.BC.
C278
220U
10V.BC.
R274
68R1
K
+15VK2
G280
REF01CS-L
R277
29K1
0.1%
C277
100N L
C276
100N L
+15VK1
+5VK
C288
10U
25V
TA L
N280-C
C289
10U
25V
TA L
-15VK1
+5VA6
C286
10U
25V
TA L
D230-C
C230
100N L
-15VA6
*NICHT BESTUECKT
NOT FITTED
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

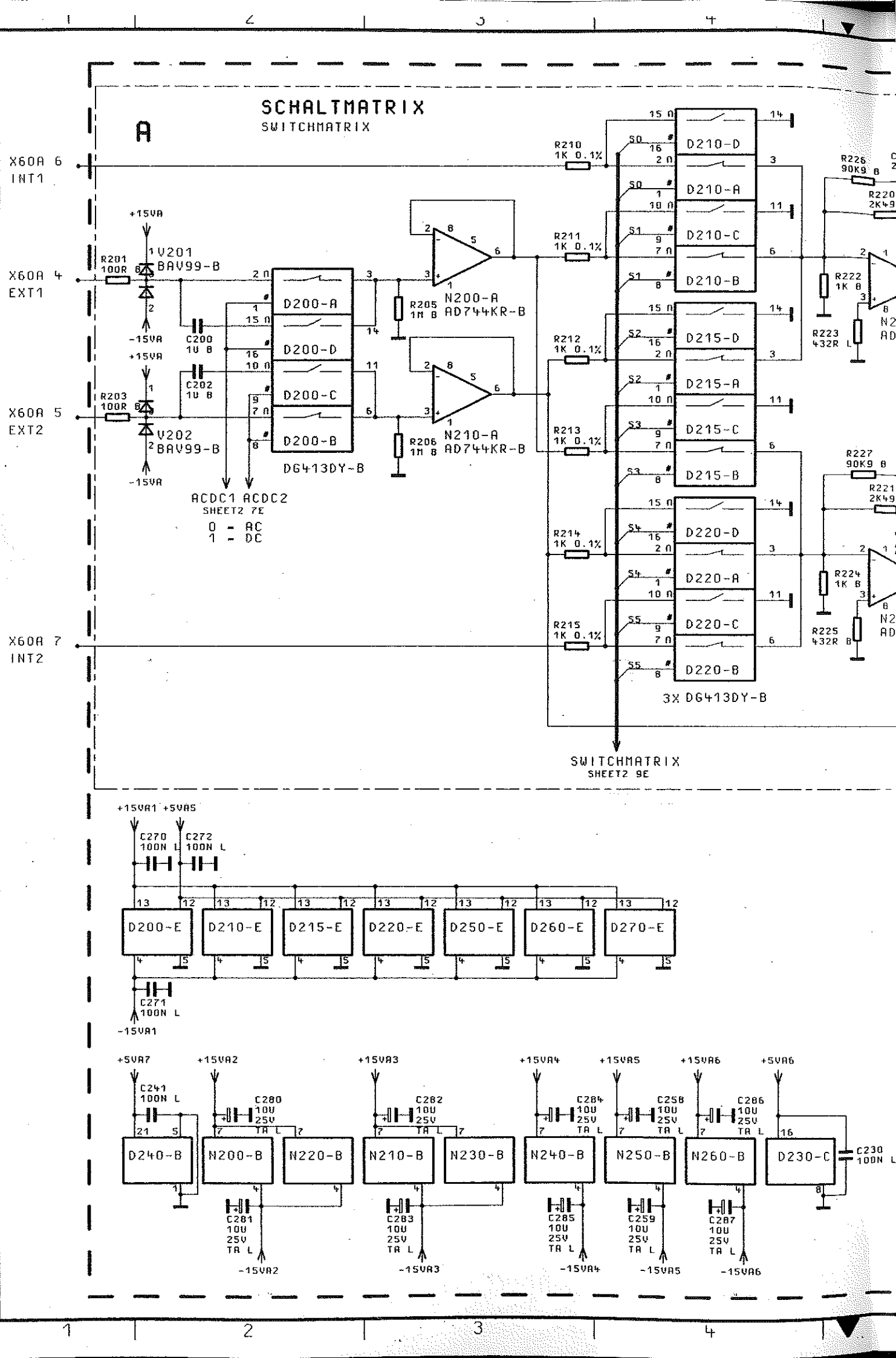






* NICHT BESTUE
NOT FITTED
STROMLAUF GIL
CIRCUIT DIAGRAM IS

ACHTUN
ELEKTROSTAT
BAUELEMENT
BESONDE
ATTENT
ELECTROSTATI
REQUIRE A



FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

X37
X38

X35

FM TRENNSTUFE
FM BUFFER

A

R356 150R B
C356 100N B
L357 4U7H B
C355 10N B
R355 33K2 B
V355 BFG97-B
R358 15R B
L354 220NH B
C352 10P B
C353 100P B
L355 22NH B
L356 220NH B
C354 10P B
R315 5R62 B
R317 5R62 B
R316 221R B
PEGEL VCO
LEVEL VCO
502
V358 HSMS2810-B
C358 3P3 B
C359 10N L
R359 27K4 L
DIAG2
SHEET2 7C
FMMOD
SHEET6 6B

+5VE2 +5VE1

C364 100N L
D360-B 74AC74SC-B
R364 10K L
R365 10K B
D360-C
R366 10K B
R361 221R B
D360-A 74AC74SC-B
R376 475R B
X37 1
X37 2

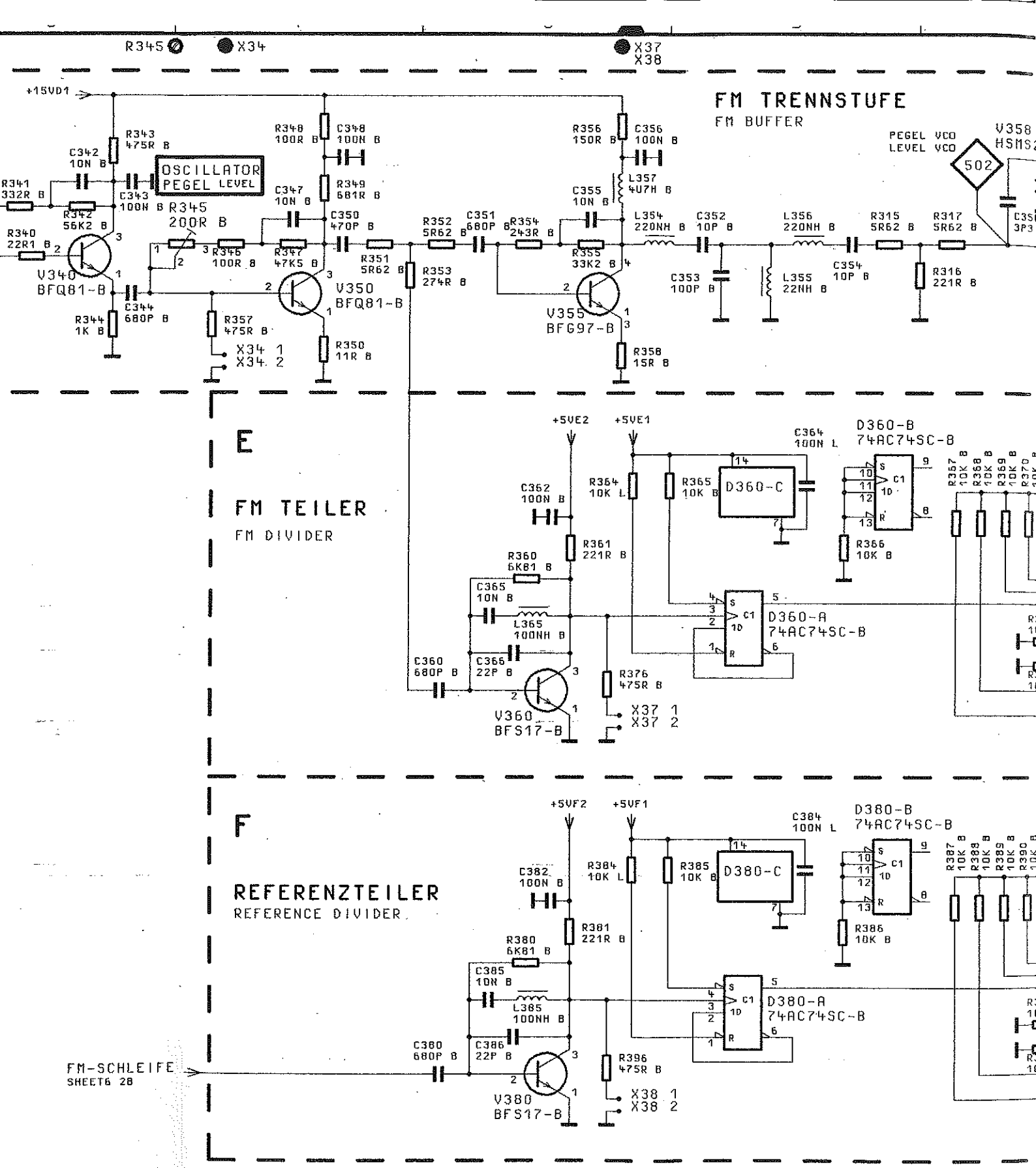
R367 10K B
R368 10K B
R369 10K B
R370 10K B
R371 10K L
+5VE3
D370-A 74AC161SC-B
CTR4
R372 10K B
R373 10K B
T,2D
4CT=15
D370-B
C376 100N L
R374 100R B
PFD1
SHEET5 1D

+5VF2 +5VF1

C384 100N L
D380-B 74AC74SC-B
R384 10K L
R385 10K B
D380-C
R386 10K B
R381 221R B
D380-A 74AC74SC-B
R396 475R B
X38 1
X38 2

R387 10K B
R388 10K B
R389 10K B
R390 10K B
R391 10K L
+5VF3
D390-A 74AC161SC-B
CTR4
R392 10K B
R393 10K B
T,2D
4CT=15
D390-B
C396 100N L
R394 100R B
PFD2
SHEET5 1D

04/01	48743 09	28.05.93	BU	1GPK	TAG	NAME	BENENNUNG
				BEARB.		BAUR	FM MODULATOR
				GEPR.		BU	FM MODULATOR
				NORM			
				PLOTT	26.05.93		
02/01	48743 07	17.03.93	BU	ROHDE&SCHWARZ			ZEICHN.-NR. 1036.8508.01S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET SM-B5			BLATT-NR. 4+
							REG.I.V. 1036.8489 ERSTE Z.



*NICHT BESTUECKT
NOT FITTED

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
04/01	48743 09	28.05.93	BU
02/01	48743 07	17.03.93	BU

1GPK	TAG
BEARB.	
GEPR.	
NORM	
PLOTT	26.05.93

ROHDE&SC
ZU GERRET SM-B

C329
P302 P303

R345 X34

FM OSZILLATOR
FM OSCILLATOR

D

+15VD1

R343 475R B
C342 10N B
OSCILLATOR PEGEL LEVEL
R341 332R B
C343 100N B
R345 200R B
R342 56K2 B
R340 22R1 B
V340 BFQ81-B
C344 680P B
R344 1K B
R357 475R B
X34 1
X34 2
R346 100R B
R347 47K5 B
V350 BFQ81-B
R350 11R B
R348 100R B
C348 100R B
R349 681R B
C347 10N B
C350 470P B
R352 5R62 B
C351 680P B
R351 5R62 B
R353 274R B

R324 56R2 L
L324 4U7H L
V318 BB909B
V320 BB909B
V321 BB809
V327 BB809
V326 BB809
C324 100N B
V319 BB909B
V322 BB909B
V323 BB809
V324 BB809
V325 BB809

MITTENFREQUENZ
CENTERFREQUENCY

C328 TRIMMWERT SELECTED
C327 4P7P B
C329 14-1P5
L326 4U7H B
V328 BB809
C326 2P7P B
L327 73NH-T
L328 73NH-T
C330 5P1P B
C331 15P B
C332 15P B
V330 SST310-B
R326 56R2 B
+12V
R329 221R B
L330 4U7H B
C334 100N B
C333 1P B
L331 4U7H B
R330 392R B
C335 100N B
R331 392R B
-12V

E

FM TEILER
FM DIVIDER

C365 10N B
C360 680P B
C366 22P B

F

REFERENZTEILER
REFERENCE DIVIDER

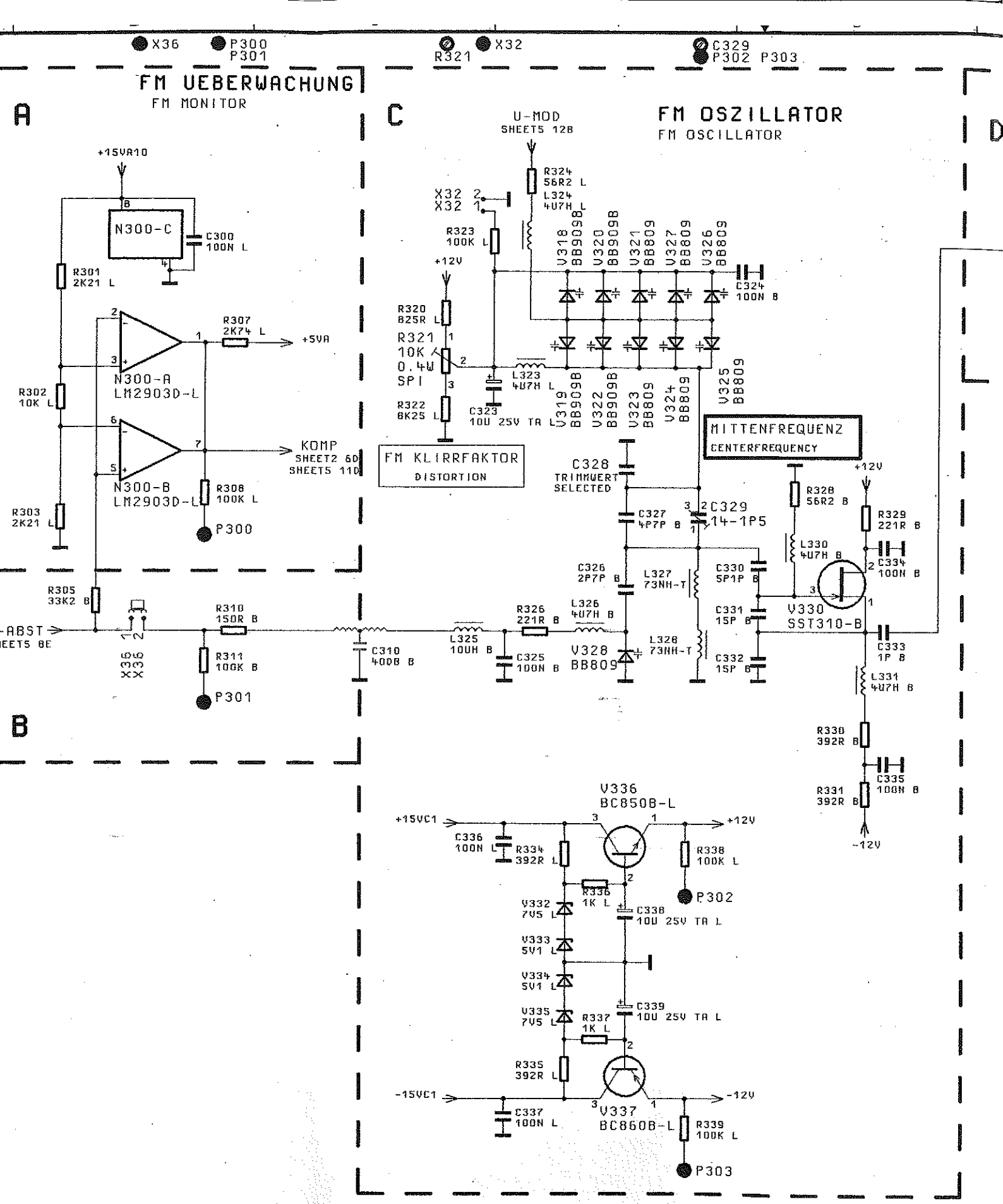
C385 10N B
C380 680P B
C386 22P B

FM-SCHLEIFE
SHEET6 2B

V336 BC850B-L
+12V
R338 100K L
R336 1K L
P302
C338 10U 25V TA L
C339 10U 25V TA L
R337 1K L
-12V
V337 BC860B-L
R339 100K L
P303

*NICHT BESTUECKT
NOT FITTED
STROMLAUF GILT FUE
CIRCUIT DIAGRAM IS VALID FO

ACHTUNG: EGB
ELEKTROSTATISCH GEFRE
BAUELEMENTE ERFORDER
BESONDERE HANDHABU
ATTENTION ESD
ELECTROSTATIC SENSITIVE
REQUIRE A SPECIAL HAN


X36
P300
P301
R321
X32
C329
P302 P303
FM UEBERWACHUNG
FM MONITOR
A
C
FM OSZILLATOR
FM OSCILLATOR
U-MOD
SHEETS 12B
+15VA10
N300-C
C300
100N L
R301
2K21 L
R307
2K74 L
+5VA
N300-A
LM2903D-L
R302
10K L
N300-B
LM2903D-L
R308
100K L
P300
KOMP
SHEET2 6D
SHEETS 11D
R303
2K21 L
R305
33K2 B
-ABST
HEETS 8E
X36
X36
R310
150R B
R311
100K B
P301
C310
400B B
L325
10UH B
C325
100N B
R326
221R B
L326
4U7H B
V328
BB809
L327
73NH-T
L328
73NH-T
C326
2P7P B
C327
4P7P B
C328
TRIMMWERT
SELECTED
C329
14-1P5
C330
5P1P B
C331
15P B
C332
15P B
V330
SST310-B
R328
56R2 B
L330
4U7H B
R329
221R B
C334
100N B
C333
1P B
L331
4U7H B
R330
392R B
C335
100N B
R331
392R B
+12V
-12V
R324
56R2 L
L324
4U7H L
X32 2
X32 1
R323
100K L
+12V
V318 BB909B
V320 BB909B
V321 BB809
V327 BB809
V326 BB809
C324
100N B
R320
825R L
R321
10K
0.4W
SPI
L323
4U7H L
R322
6K25 L
C323
10U 25V TA L
V319 BB909B
V322 BB909B
V323 BB809
V324 BB809
V325 BB809
MITTENFREQUENZ
CENTERFREQUENCY
FM KLIRRFAKTOR
DISTORTION
B
V336
BC850B-L
+15VC1
C336
100N L
R334
392R L
R336
1K L
C338
10U 25V TA L
V332
7V5 L
V333
5V1 L
V334
5V1 L
V335
7V5 L
C339
10U 25V TA L
R337
1K L
R335
392R L
R338
100K L
P302
-15VC1
C337
100N L
V337
BC860B-L
R339
100K L
P303

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ZEICHN.-NR. 1035.8508.01 S

X36 P300 P301 R321 X32 C329 P302 P30

FM UEBERWACHUNG
FM MONITOR

A

+15VA10
N300-C
C300 100N L
R301 2K21 L
R307 2K74 L
+5VA
N300-A LM2903D-L
R302 10K L
N300-B LM2903D-L
KOMP SHEET2 6D SHEET5 11D
R306 100K L
P300
R303 2K21 L
R305 33K2 B
U-ABST SHEET5 8E
X36 X36
R310 150R B
R311 100K B
P301

B

C

U-MOD SHEET5 12B
FM OSZILL
FM OSCILLATOR
R324 56R2 L
L324 4U7H L
X32 2
X32 1
R323 100K L
+12V
V318 BB909B
V320 BB909B
V321 BB809
V327 BB809
V326 BB809
C324 100N B
R320 825R L
R321 10K 0.4W SPI
R322 8K25 L
C323 10U 25V TA L
L323 4U7H L
V319 BB909B
V322 BB909B
V323 BB809
V324 BB809
V325 BB809
MITTENFR
CENTERFREQU
FM KLIRRFAKTOR
DISTORTION
C328 TRIMMWERT SELECTED
C327 4P7P B
C329 14-1P5
C326 2P7P B
L327 73NH-T
C330 5P1P B
C331 15P B
C332 15P B
R326 221R B
L326 4U7H B
V328 BB809
L326 73NH-T
L325 10UH B
C325 100N B
C310 400B B

V336 BC850B-L
+15VC1
C336 100N L
R334 392R L
R338 100K L
P302
R336 1K L
V332 7V5 L
C338 10U 25V TA L
V333 5V1 L
V334 5V1 L
V335 7V5 L
C339 10U 25V TA L
R337 1K L
R335 392R L
-15VC1
C337 100N L
V337 BC860B-L
R339 100K L
P303
-12V

P409
P410

R490

X49

ABSTIMMSPG. FUER PHIM
CONTROL VOLTAGE FOR PHIM

N440-A
TL072ACD-L

C449 10P L

R449 7K5 L

D450-A
DAC08CS-L

R451 5K62 L

R450 5K62 L

C450 10N L

-15VB1

HALT
SHEET5 3D

R453 1K L

R452 1K L

+5VB4

R465 10K L

COUNT1
SHEET5 2E

R468 10K L

P409

P410

R469 10K L

COUNT2
SHEET5 2E

R455 1K62 B

R454 10K B

+15VB1

N440-B
TL072ACD-L

V455 5V6 B

C454 10U 25V TA B

C442 100N B

C443 100N L

+15VB1

+5VB4

N430-B

N440-C

D450-B

D440-E

C456 100N B

-15VB1

+15VB2

C438 10U 25V TA L

+15VB3

N420-B

N421-B

N455-C

C467 100N B

C439 10U 25V TA L

-15VB2

PHIM MONITOR

D440-C
DG413DY-L

KOMP
SHEET2 6D
SHEET4 3D

B

K

-15VA8

R456 2K21 L

N485-B
LM2903D-L

R459 33K2 B

R457 15K L

R458 2K21 L

+15VA8

N485-A
LM2903D-L

R482 8K25 L

V488
BAS16-L

D290-A
74HC86T-B

PHIMOD
SHEET2 7E

R488 10K L

C488 10N L

+5VK

R489 10K L

C

MODULATIONSSPANNUNG
MODULATION VOLTAGE

505

R491 825R L

PHIMOD
0 - FM
1 - PHIM
SHEET2 7E

R490 500R STE

FM HUB DEVIATION

FMGROB
SHEET3 10D

C490 18P B

R461 56R2 B

D270-A
DG413DY-B

U-MOD
SHEET4 4F

C494 68P B

C495 100B B

C498 68P B

R492 1K 0.1%

R493 *

R494 100R 0.1%

R496 *

R495 200R 0.1%

D480-A
DG419DY-B

N490-A
AD829-B

D270-D
DG413DY-B

R407 20K L

R409 3K32 L

DIAG5
SHEET2 7B

R408 10K L

C409 *

FMRANGE
SHEET2 7D

HUBABGLEICH
DEVIATION ADJUSTMENT

04/01	48743 09	28.05.93	BU	1GPK	TAG	NAME	BENENNUNG
				BEARB.		BAUR	FM MODULATOR
				GEPR.		BU	FM MODULATOR
				NORM			
				PLOTT	26.05.93		
02/01	48743 07	17.03.93	BU	ROHDE&SCHWARZ			ZEICHN.-NR. 1036.8508.01S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET SM-B5			REG.I.V. 1036.8489

BLATT-NR. 5+ V. 7 BL.

ERSTE Z.

P406 P407 R483 P408 R444 P409 P410 R490

FM SCHLEIFENINTEGRATOR
FM LOOP INTEGRATOR

501 ABSTIMMSPANNUNG VCO
VCO TUNING VOLTAGE

C446 10 L
C440 10 L
D440-B DG413DY-L
R448 2K21 L
PHIMOD 1 - ON SHEET2 7E
R440 221R L
N430 LT1077S8-L
R445 68K1 B
U-ABST SHEET4 1D
C445 1U B
R446 150K B
DIAG1 SHEET2 7C
D440-D DG413DY-L
PHIMOD 1 - OFF SHEET2 7E
R447 75K B
C447 10N B

ABSTIMMSPG. FUER PHIM
CONTROL VOLTAGE FOR PHIM

N440-A TL072ACD-L
C449 10P L
R449 7K5 L
D450-A DAC08CS-L
HALT0 HALT1 HALT2 HALT3 HALT4 HALT5 HALT6 HALT7
LSB MSB REF + REF - VLC IOUT IOUT COMP
R451 5K62 L
R450 5K62 L
C450 10N L
-15VB1
HALT SHEETS 3D

R453 1K L
R452 1K L
R455 1K62 B
R454 10K B
V455 5V6 B
C454 10U 25V TA B
N440-B TL072ACD-L

FREQUENZ
FREQUENCY
+5VB1
R414 10K B
P406
P407
R441 100R L
R415 10K B
R442 100R L
D420-B
D430-B

C460 10N L
+5VB4
R460 100K L
R465 10K L
R464 1K L
N455-A LM2903D-L
COUNT1 SHEETS 2E
R468 10K L
P409
R462 3K92 L
P410
R466 10K L
R469 10K L
N455-B LM2903D-L
COUNT2 SHEETS 2E
P408
R463 221K L

PHIM M
D440-
DG413
10 Ω
9

A

PHIMREF SHEET3 12E
+15VA7
R444 2K B
PHIM KLIRRFAKTOR DISTORTION
R484 1K L
PHIM HUB DEVIATION
R406 1K82 B
R483 1K STE
R476 511R B
R481 2K43 B
C481 10N B
R475 432R B
C475 68P B
R480 392R B
C480 5P6 B
R487 221R B
N475-A AD829-B
N480-A AD829-B
C487 680P B
R477 432R B
R478 511R B

-15VA8
R456 2K21 L
N485-B LM2903D-L
R459 33K2 B
R457 15K L
R482 8K25 L
R458 2K21 L
+15VA8
N485-A LM2903D-L

D290-A 74HC86T-

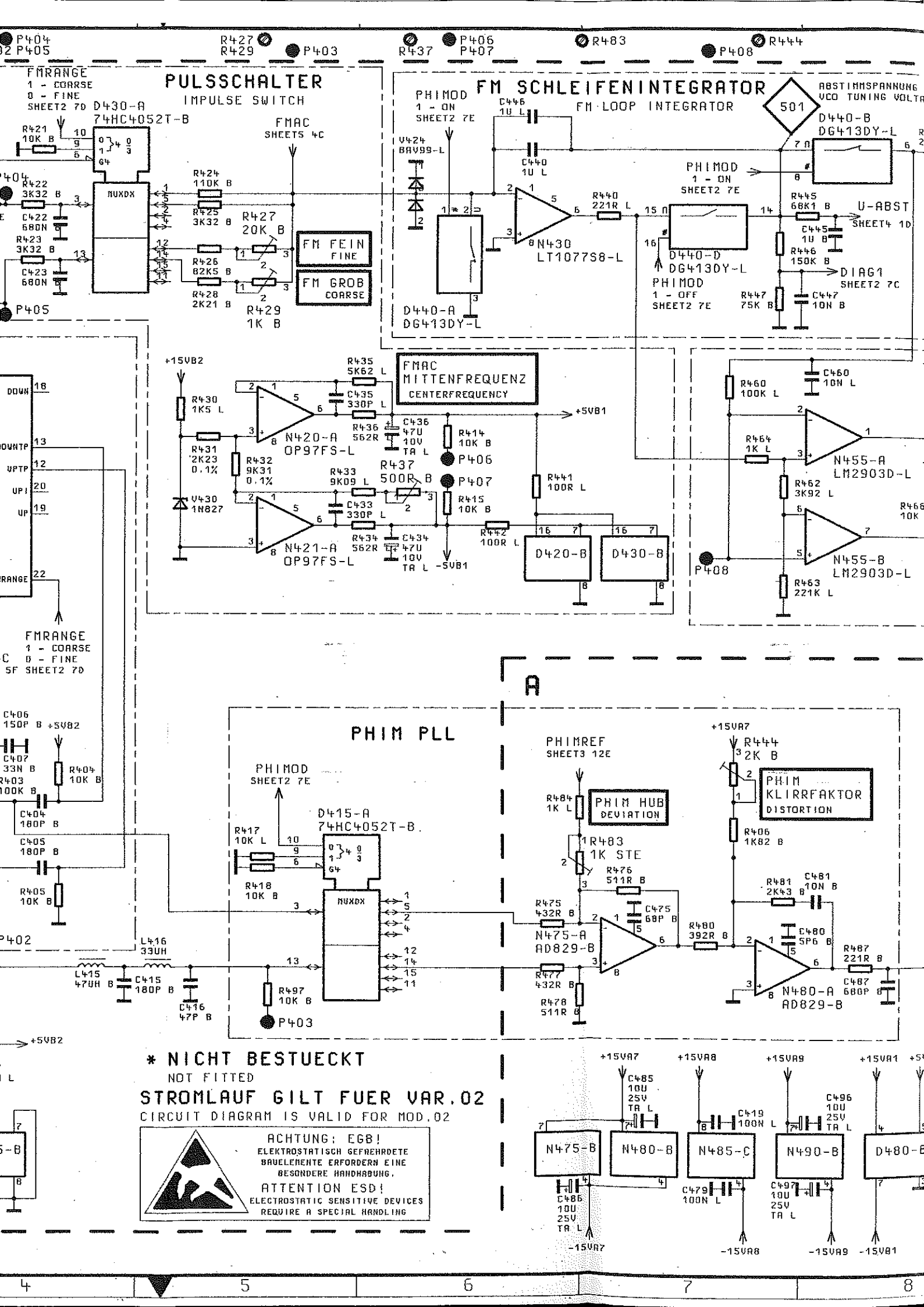
R491 825R L
R490 500R STE
FM HUB DEVIATION
PHIMOD 0 - FM 1 - PHIM SHEET2 7E
FMGROB SHEET3 10D
C490 18P B
R461 56R2 B
D270
DG41
R492 1K 0.1%
R493 *
R494 100R 0.1%
R496 *
R495 200R 0.1%
D480-A DG419DY-B
N490-A AD829-B
FMRANGE SHEET2 7D

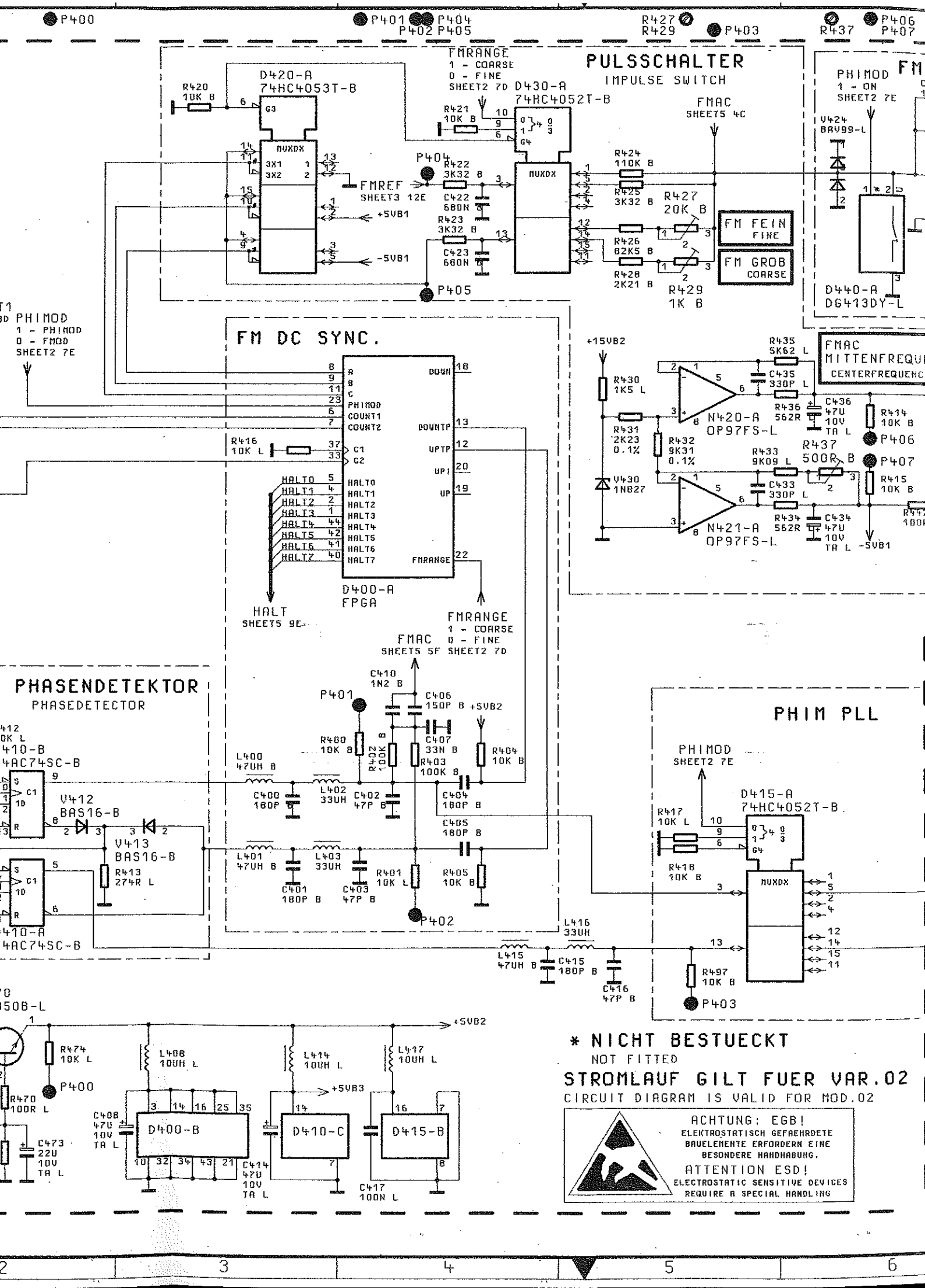
HUBABGLEICH
DEVIATION ADJUSTMENT

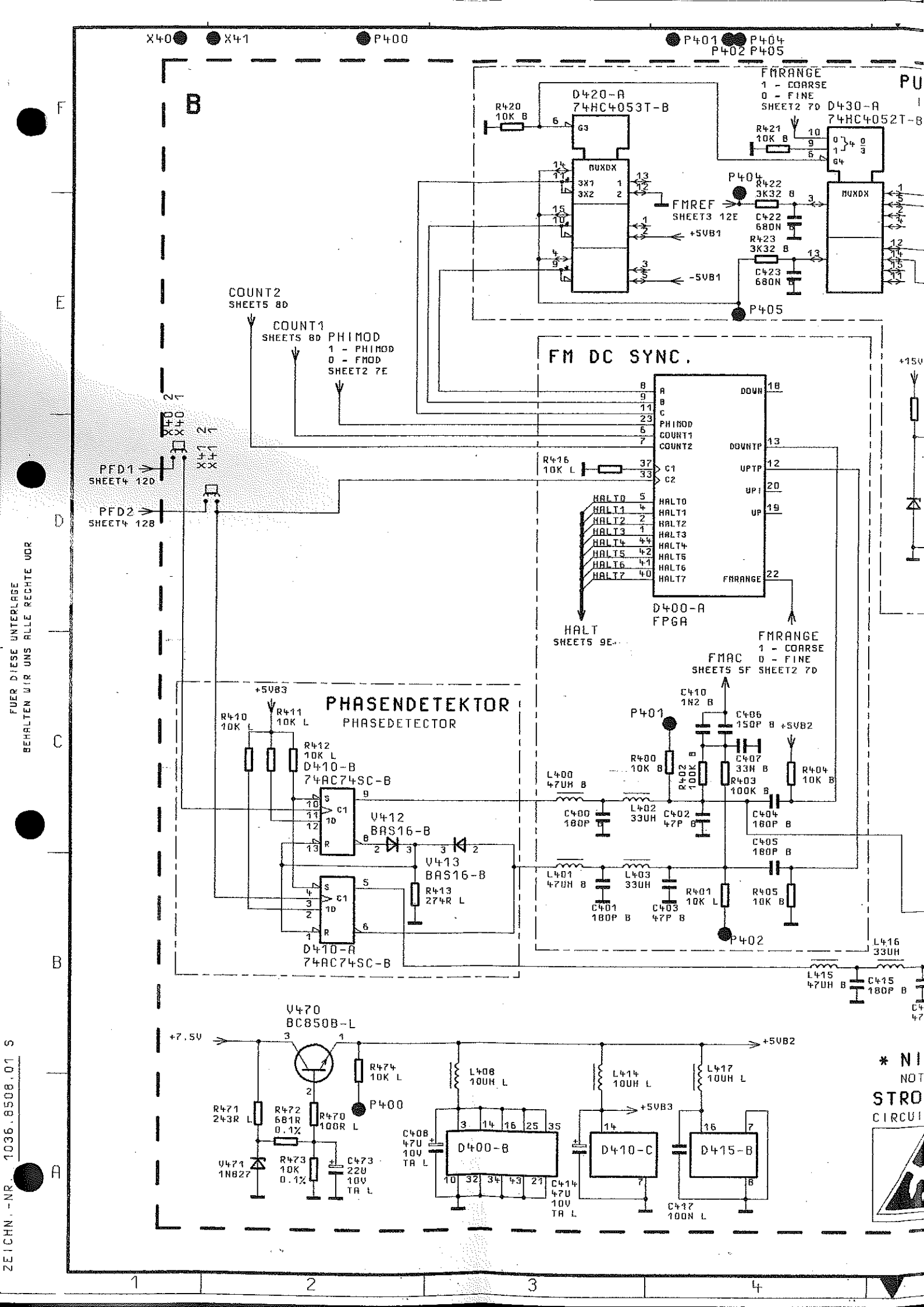
+15VA7 +15VA8 +15VA9 +15VA1 +5VA5
C485 10U 25V TA L
C419 100N L
C496 10U 25V TA L
N475-B
N480-B
N485-C
N490-B
D480-B
C486 10U 25V TA L
C479 100N L
C497 10U 25V TA L
-15VA7 -15VA8 -15VA9 -15VA1

04/01	48743 09	28.05.93	BU	1GPK	TAG
				BEARB.	
				GEPR.	
				NORM	
				PLOTT	26.05.93
02/01	48743 07	17.03.93	BU		
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ROHDE&SCHW	
				ZU GERAET	SM-B5

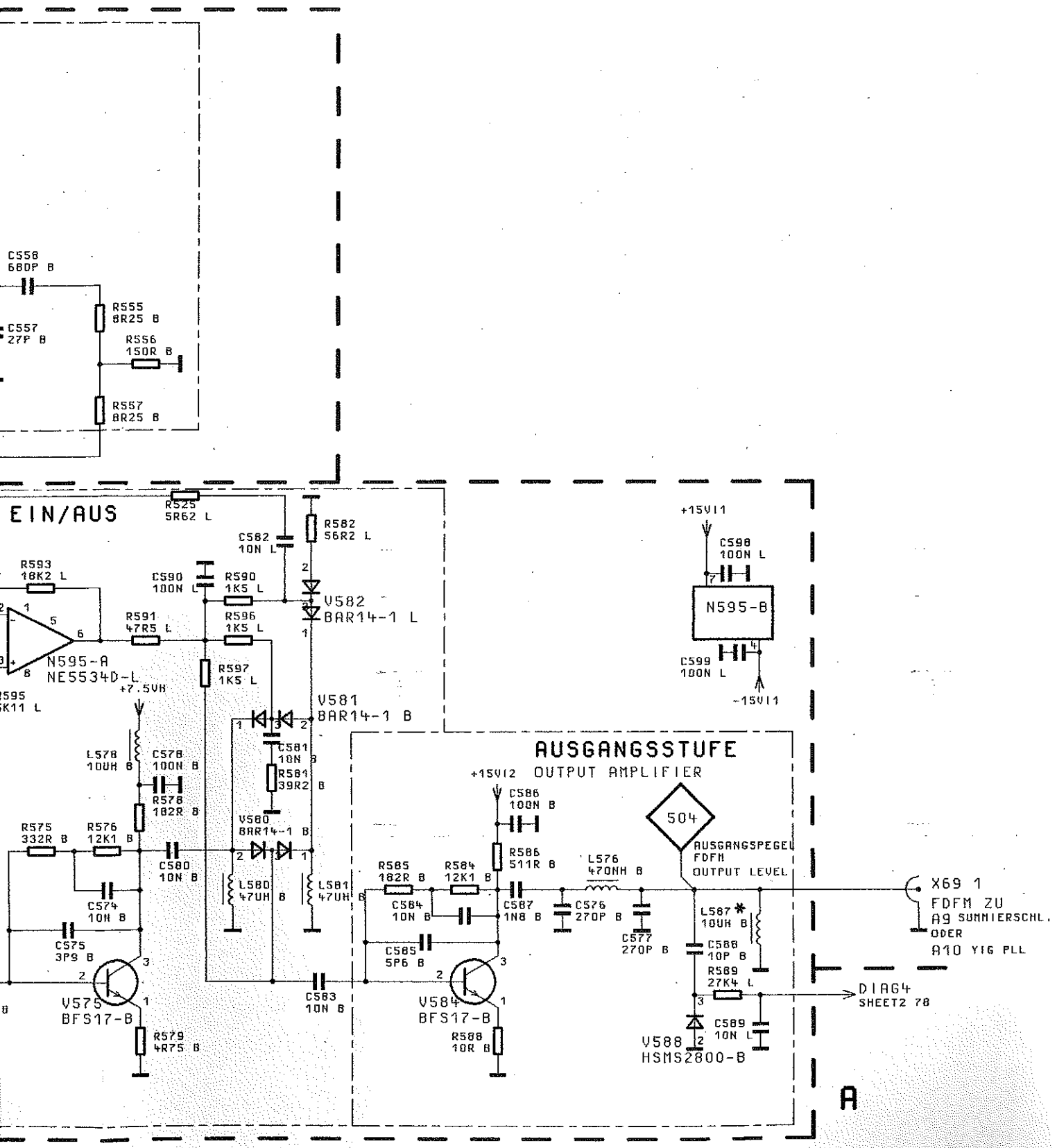
6 7 8 9 10


P404
P405
R427
R429
P403
R437
P406
P407
R483
P408
R444
PULSSCHALTER
IMPULSE SWITCH
FMRANGE
1 - COARSE
0 - FINE
SHEET2 7D
D430-A
74HC4052T-B
FMAC
SHEET5 4C
R421 10K B
R422 3K32 B
C422 680N
R423 3K32 B
C423 680N
R424 110K B
R425 3K32 B
R426 82K5 B
R428 2K21 B
R427 20K B
R429 1K B
FM FEIN
FINE
FM GROB
COARSE
FM SCHLEIFENINTEGRATOR
FM LOOP INTEGRATOR
PHIMOD
1 - ON
SHEET2 7E
V424 BAV99-L
C446 1U L
C440 1U L
D440-A DG413DY-L
N430 LT1077S8-L
R440 221R L
D440-D DG413DY-L
PHIMOD
1 - OFF
SHEET2 7E
R445 68K1 B
C445 1U B
R446 150K B
R447 75K B
C447 10N B
U-ABST
SHEET4 1D
DIAG1
SHEET2 7C
ABSTIMMSPANNUNG
VCO TUNING VOLTA
501
D440-B DG413DY-L
+15VB2
R430 1K5 L
R431 2K23 0.1%
R432 9K31 0.1%
V430 1N827
N420-A OP97FS-L
R435 5K62 L
C435 330P L
R436 562R
C436 47U 10V TA L
FMAC
MITTENFREQUENZ
CENTERFREQUENZ
+5VB1
R414 10K B
P406
R437 500R B
P407
R433 9K09 L
C433 330P L
R434 562R
C434 47U 10V TA L
N421-A OP97FS-L
R415 10K B
-5VB1
R441 100R L
R442 100R L
D420-B
D430-B
R460 100K L
C460 10N L
R464 1K L
N455-A LM2903D-L
R462 3K92 L
N455-B LM2903D-L
R463 221K L
P408
DOWN
DOWNTP
UPTP
UP1
UP
FRANGE
FMRANGE
1 - COARSE
0 - FINE
SF SHEET2 7D
C406 150P B
+5VB2
C407 33N B
R403 100K B
R404 10K B
C404 180P B
C405 180P B
R405 10K B
P402
L416 33UH
L415 47UH B
C415 180P B
C416 47P B
PHIM PLL
PHIMOD
SHEET2 7E
D415-A
74HC4052T-B
R417 10K L
R418 10K B
R497 10K B
P403
PHIMREF
SHEET3 12E
R484 1K L
PHIM HUB
DEVIATION
R483 1K STE
R476 511R B
R475 432R B
C475 68P B
N475-A AD829-B
R477 432R B
R478 511R B
+15VA7
R444 2K B
PHIM
KLIRRFAKTOR
DISTORTION
R406 1K82 B
R481 2K43 B
C481 10N B
C480 5P6 B
R480 392R B
R487 221R B
C487 680P B
N480-A AD829-B
A
* NICHT BESTUECKT
NOT FITTED
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
+15VA7
+15VA8
+15VA9
+15VA1
C485 10U 25V TA L
C419 100N L
C496 10U 25V TA L
N475-B
N480-B
N485-C
N490-B
D480-B
C486 10U 25V TA L
C479 100N L
C497 10U 25V TA L
-15VA7
-15VA8
-15VA9
-15VA1


P400
P401
P404
P402 P405
R427
R429
P403
R437
P406
P407
PULSSCHALTER
IMPULSE SWITCH
FMRANGE
1 - COARSE
0 - FINE
SHEET2 7D
D420-A
74HC4053T-B
D430-A
74HC4052T-B
FMAC
SHEET5 4C
R420 10K B
R421 10K B
R422 3K32 B
R423 3K32 B
C422 680N
C423 680N
FMREF
SHEET3 12E
+5VB1
-5VB1
R424 110K B
R425 3K32 B
R426 82K5 B
R428 2K21 B
R427 20K B
R429 1K B
FM FEIN
FINE
FM GROB
COARSE
P405
PHIMOD
1 - ON
SHEET2 7E
V424
BAV99-L
D440-A
DG413DY-L
PHIMOD
1 - PHIMOD
0 - FMOD
SHEET2 7E
FM DC SYNC.
D400-A
FPGA
DOWN
DOWNTP
UPTP
UP
FMRANGE
HALT0
HALT1
HALT2
HALT3
HALT4
HALT5
HALT6
HALT7
PHIMOD
COUNT1
COUNT2
R416 10K L
HALT
SHEETS 9E
FMRANGE
1 - COARSE
0 - FINE
SHEETS 5F SHEET2 7D
+15VB2
R430 1K5 L
R431 2K23 0.1%
R432 9K31 0.1%
R433 9K09 L
R435 5K62 L
R436 562R
R434 562R
C435 330P L
C436 47U 10V TA L
C433 330P L
C434 47U 10V TA L
R437 500R B
R414 10K B
R415 10K B
V430 1N827
N420-A
OP97FS-L
N421-A
OP97FS-L
-5VB1
FMAC
MITTENFREQU
CENTERFREQUENC
PHASENDETEKTOR
PHASEDETECTOR
V412
BAS16-B
V413
BAS16-B
R413 274R L
C410 1N2 B
C406 150P B
+5VB2
R400 10K B
R402 100K B
C407 33N B
R403 100K B
R404 10K B
L400 47UH B
C400 180P B
L402 33UH
C402 47P B
C404 180P B
C405 180P B
L401 47UH B
C401 180P B
L403 33UH
C403 47P B
R401 10K L
R405 10K B
P402
L416 33UH
L415 47UH B
C415 180P B
C416 47P B
PHIM PLL
PHIMOD
SHEET2 7E
D415-A
74HC4052T-B
R417 10K L
R418 10K B
R497 10K B
P403
R474 10K L
P400
R470 100R L
C473 22U 10V TA L
L408 10UH L
L414 10UH L
L417 10UH L
+5VB3
D400-B
D410-C
D415-B
C408 47U 10V TA L
C414 47U 10V TA L
C417 100N L
* NICHT BESTUECKT
NOT FITTED
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

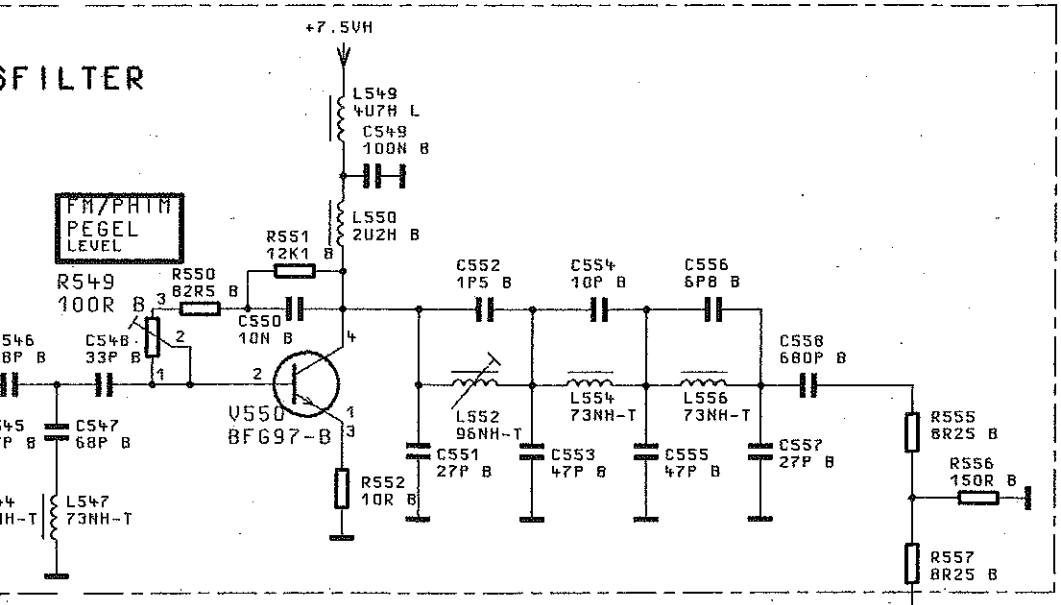


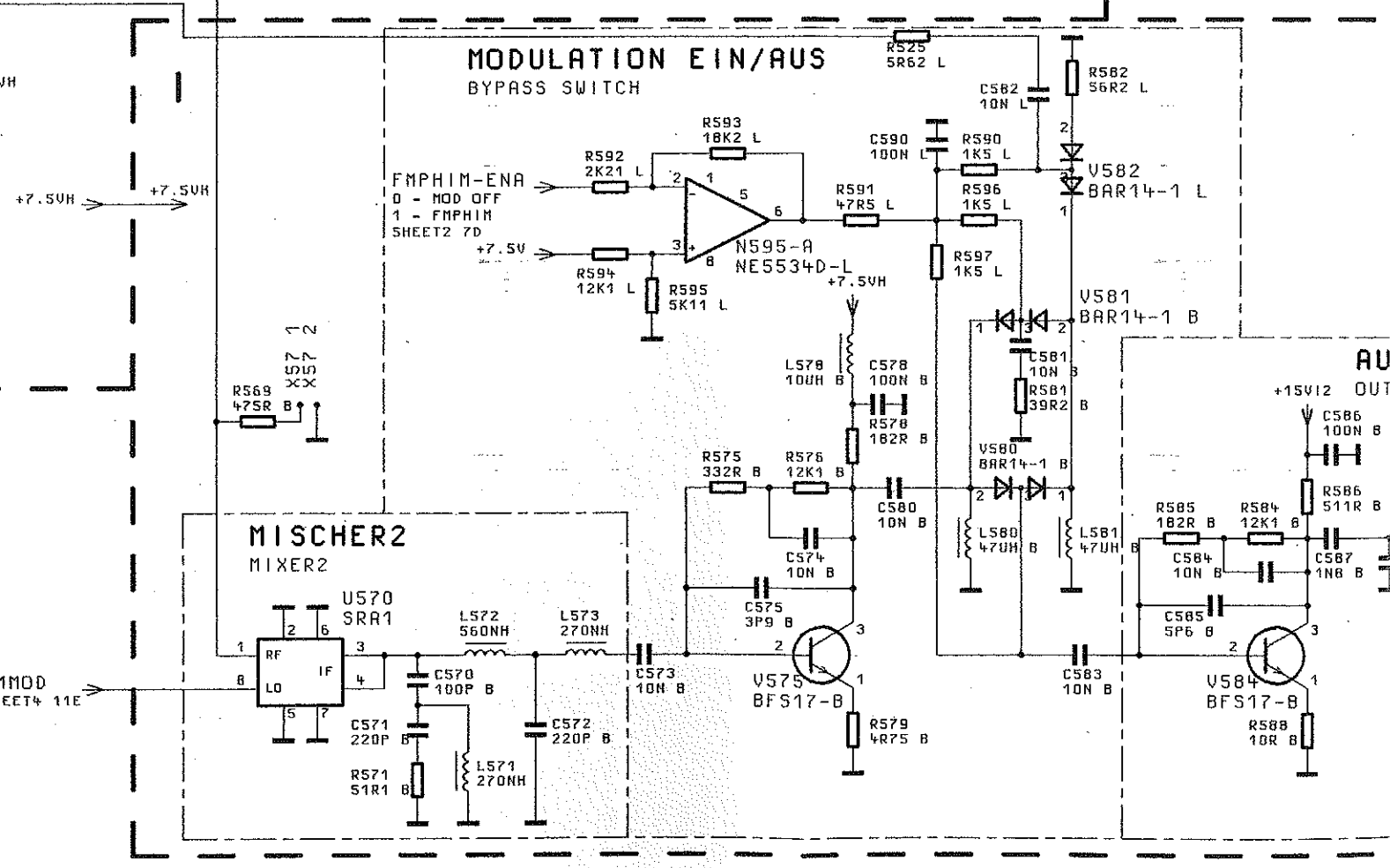
FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



04/01	48743 09	26.05.93	BU	1GPK	TAG	NAME	BENENNUNG
				BEARB.		BAUR	FM MODULATOR
				GEPR.		BU	FM MODULATOR
				NORM			
				PLOTT	26.05.93		
02/01	48743 07	17.03.93	BU	ROHDE&SCHWARZ			ZEICHN.-NR. 1036.8508.01S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET SM-B5			BLATT-NR. 6+
				REG.I.V. 1036.8489			ERSTE Z.

R549 X57 L552





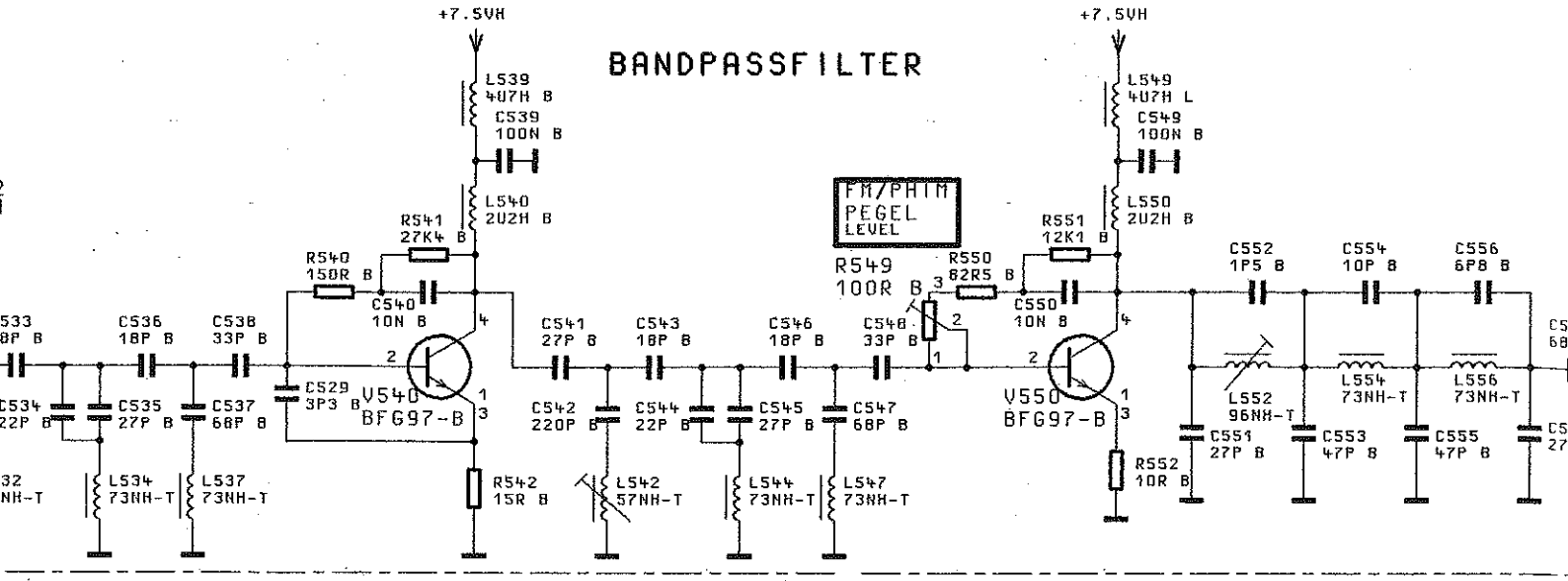
* NICHT BESTUECKT
NOT FITTED

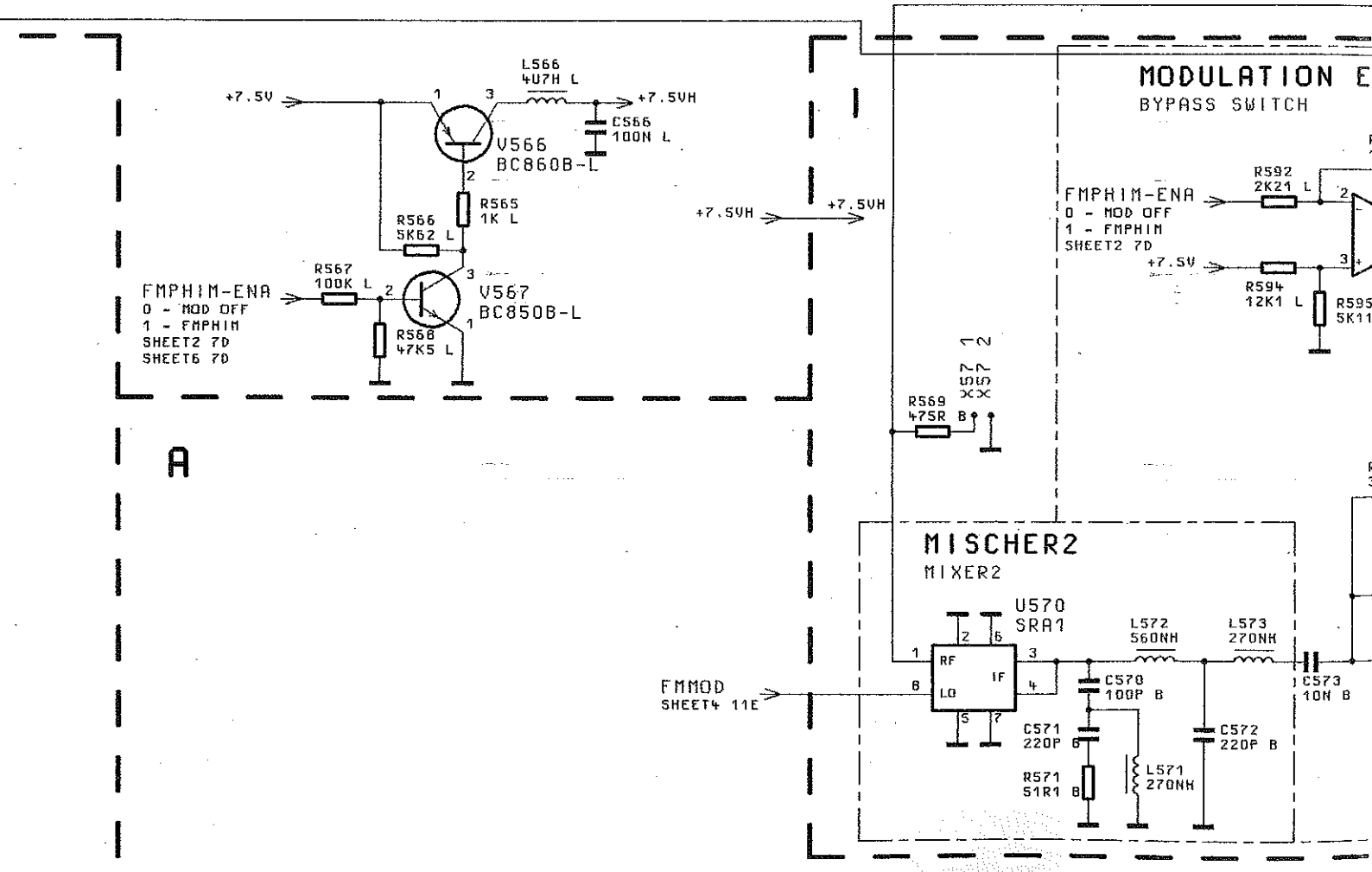
STROMLAUF GILT FUER VAR.02
CIRCUIT DIAGRAM IS VALID FOR MOD.02

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

04/01	48743 09	28.05.93	BU	1GPK	TAG	NAME
				BEARB.		BAU
				GEPR.		BU
				NORM		
				PLOTT	26.05.93	
02/01	48743 07	17.03.93	BU			
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME			

ROHDE&SCHWARZ
ZU GERAET SM-B5



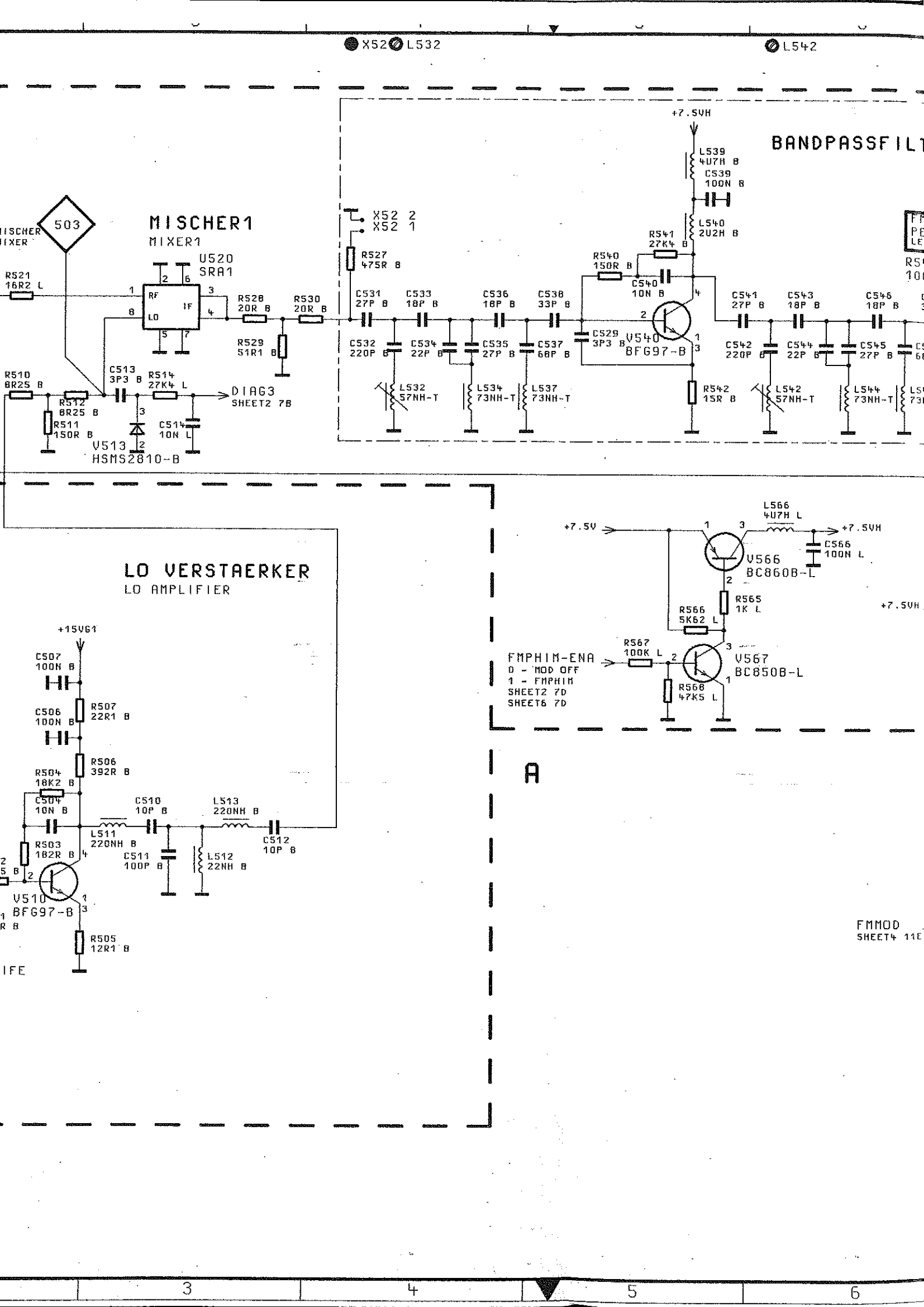


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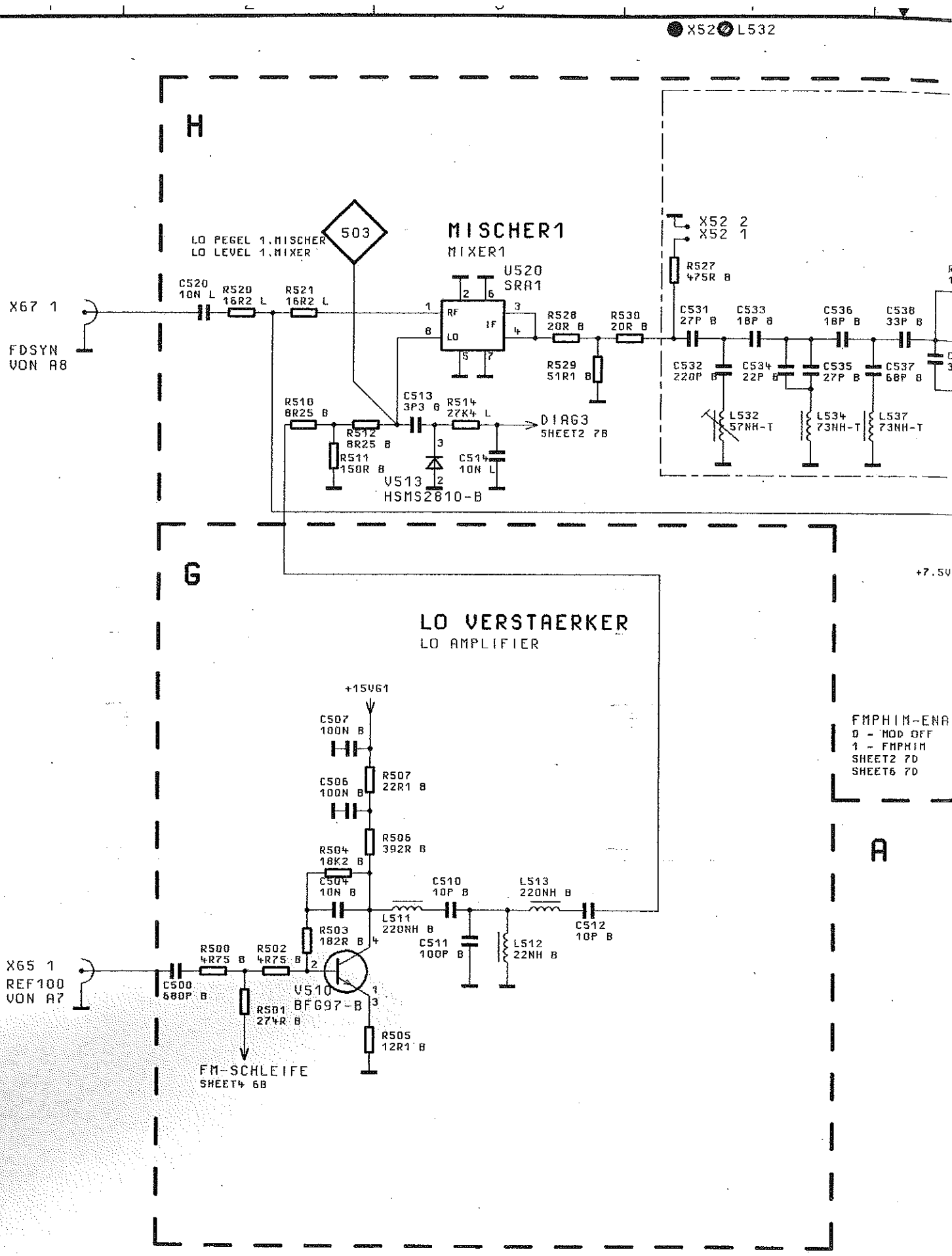
* NICHT BESTUECKT
NOT FITTED

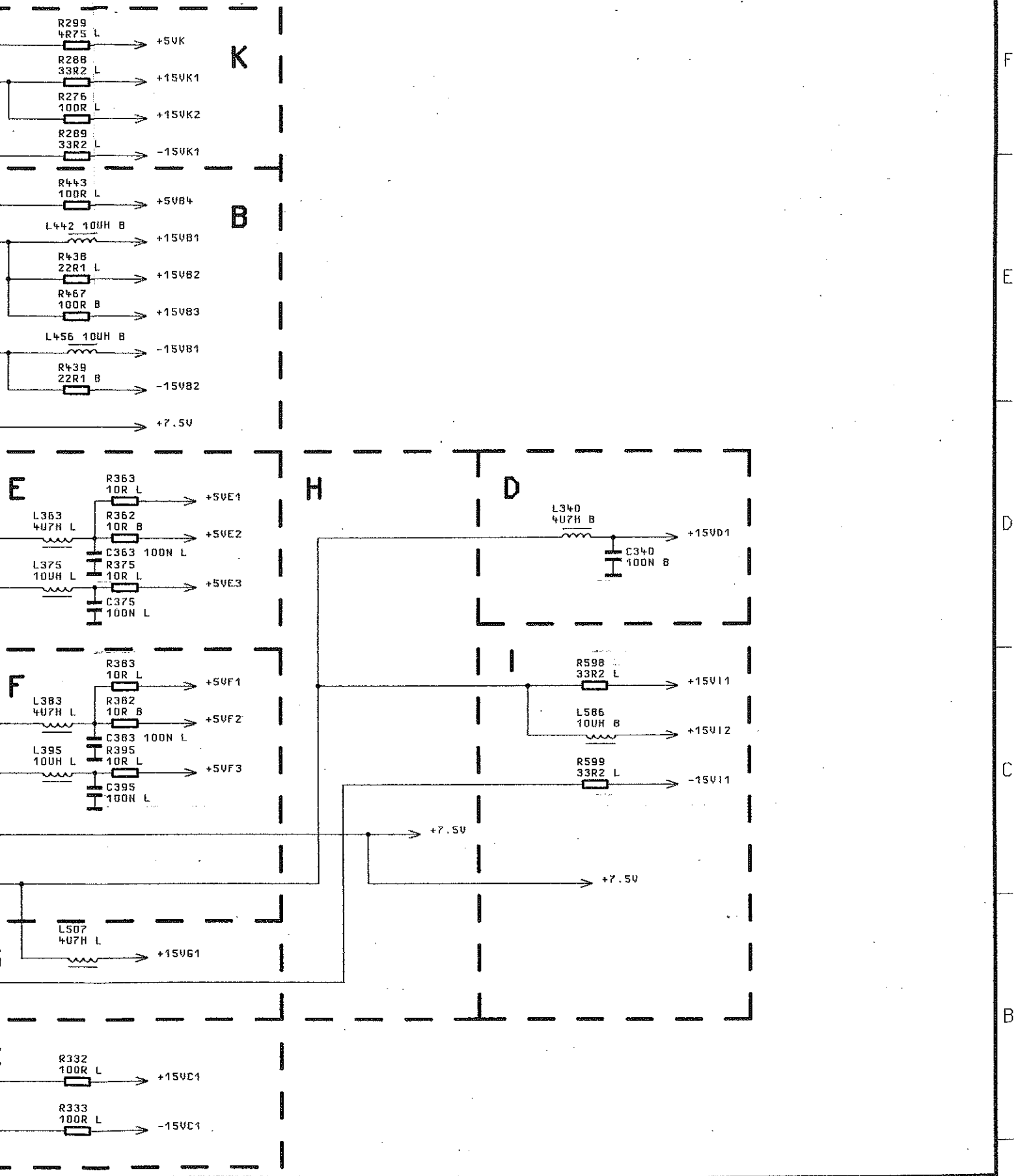
STROMLAUF GILT FUER VAR
CIRCUIT DIAGRAM IS VALID FOR MOD.02

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


X52 L532
L542
503
MISCHER1
MIXER1
U520
SRA1
RF
IF
LO
R521 16R2 L
R528 20R B
R530 20R B
R529 51R1 B
R510 8R25 B
R512 8R25 B
R511 150R B
C513 3P3 B
R514 27K4 L
C514 10N L
V513 HSMS2810-B
DIAG3
SHEET2 7B
X52 2
X52 1
R527 475R B
+7.5VH
L539 4U7H B
C539 100N B
L540 2U2H B
R541 27K4 B
R540 150R B
C540 10N B
C531 27P B
C533 18P B
C536 18P B
C538 33P B
C532 220P B
C534 22P B
C535 27P B
C537 68P B
C529 3P3 B
V540 BFG97-B
L532 57NH-T
L534 73NH-T
L537 73NH-T
R542 15R B
C541 27P B
C543 18P B
C546 18P B
C542 220P B
C544 22P B
C545 27P B
L542 57NH-T
L544 73NH-T
BANDPASSFIL
LO VERSTAERKER
LO AMPLIFIER
+15VG1
C507 100N B
C506 100N B
R507 22R1 B
R506 392R B
R504 18K2 B
C504 10N B
C510 10P B
L513 220NH B
L511 220NH B
C511 100P B
L512 22NH B
C512 10P B
R503 182R B
V510 BFG97-B
R505 12R1 B
+7.5V
L566 4U7H L
C566 100N L
V566 BC860B-L
R565 1K L
R566 5K62 L
R567 100K L
R568 47K5 L
V567 BC850B-L
FMPHIM-ENA
0 - MOD OFF
1 - FMPHIM
SHEET2 7D
SHEET6 7D
+7.5VH
A
FMMOD
SHEET4 11E
3
4
5
6

BEHALTEN WIR UNS ALLE RECHTE VOR



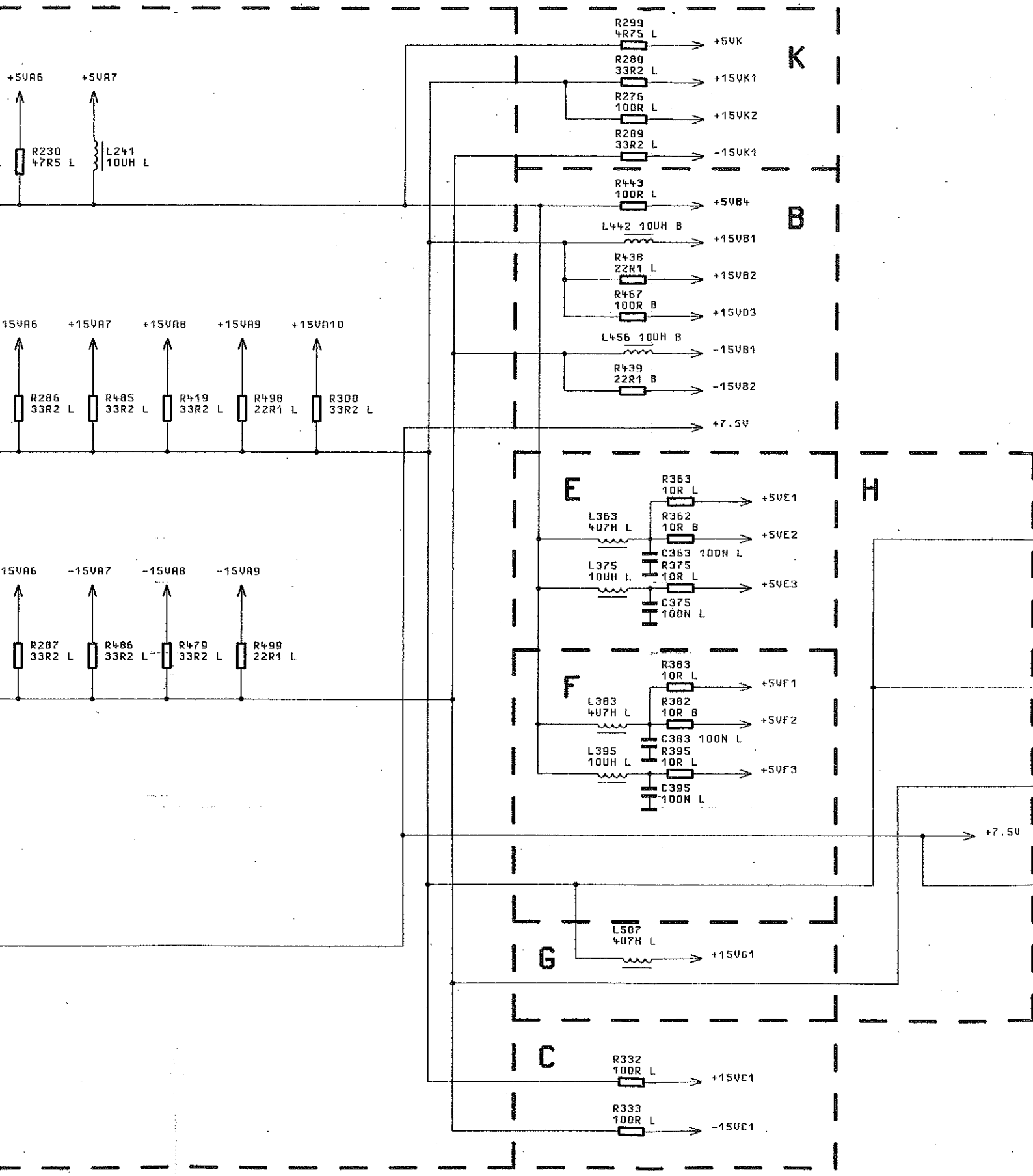


04/01	48743 09	28.05.93	BU	1GPK	TAG	NAME	BENENNUNG
				BEARB.		BAUR	FM MODULATOR
				GEPR.		BU	FM MODULATOR
				NORM			
				PLOTT	26.05.93		
02/01	48743 07	17.03.93	BU	ROHDE&SCHWARZ			ZEICHN.-NR. 1036.8508.01S
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERRET SM-B5			REG.I.V. 1036.8489 ERSTE Z.

BLATT-NR. 7- V. BL.

AR.02

.02



STROMLAUF GILT FUER VAR.02

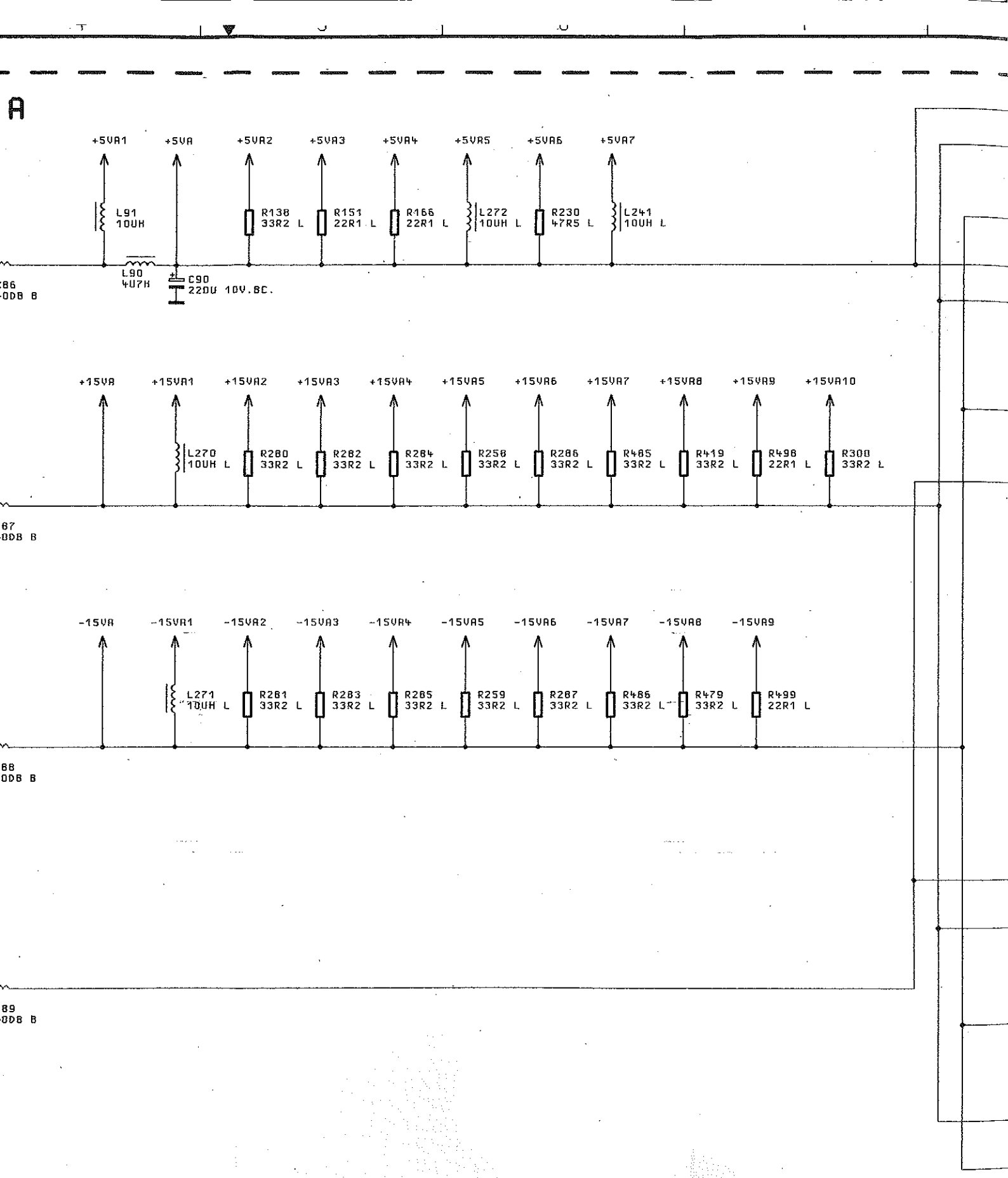
CIRCUIT DIAGRAM IS VALID FOR MOD.02

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

AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME
04/01	48743 09	28.05.93	BU
02/01	48743 07	17.03.93	BU

1GPK	TAG
BEARB.	
GEPR.	
NORM	
PLOTT	26.05.93

ROHDE&SC
ZU GERAET SM-B

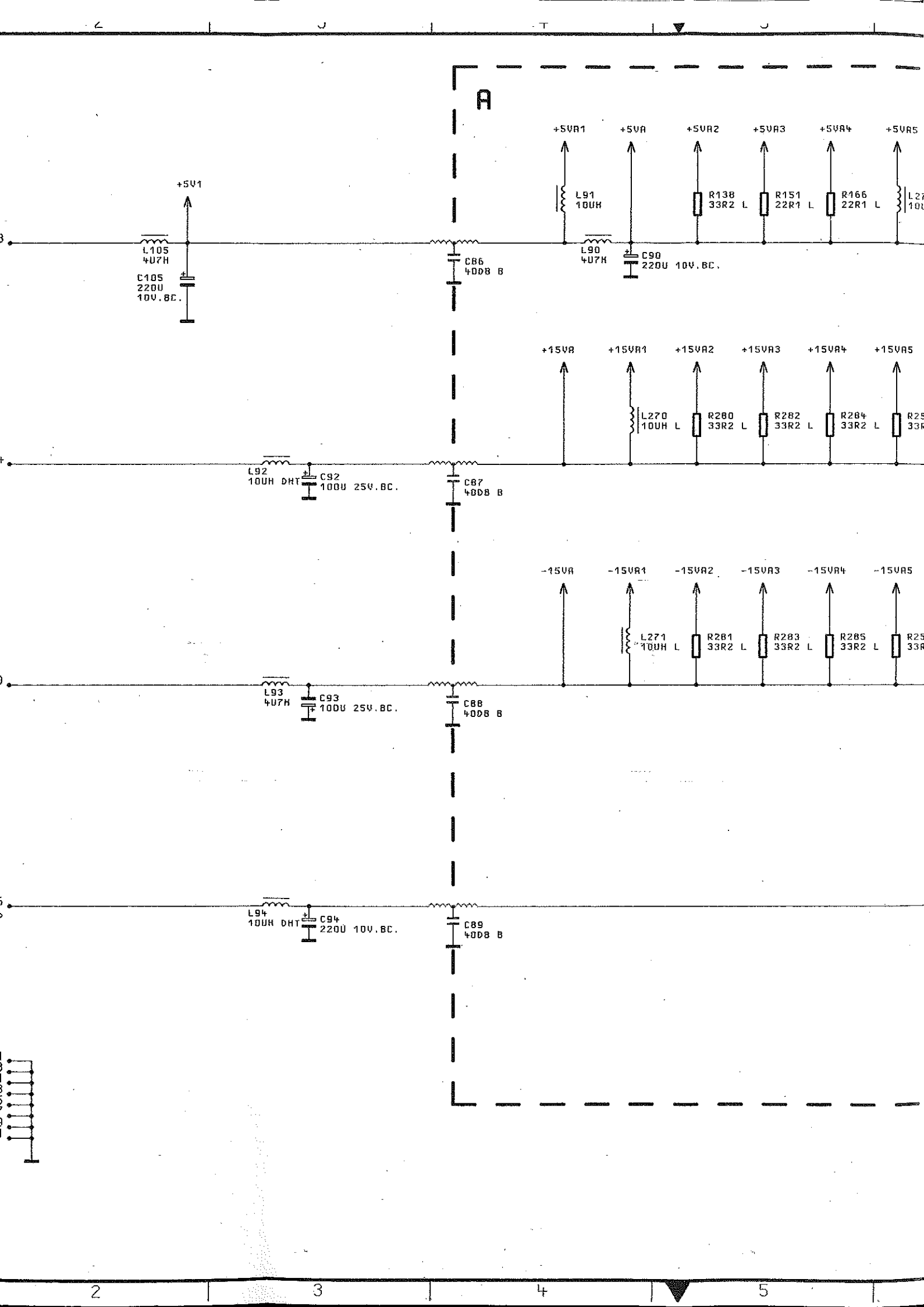


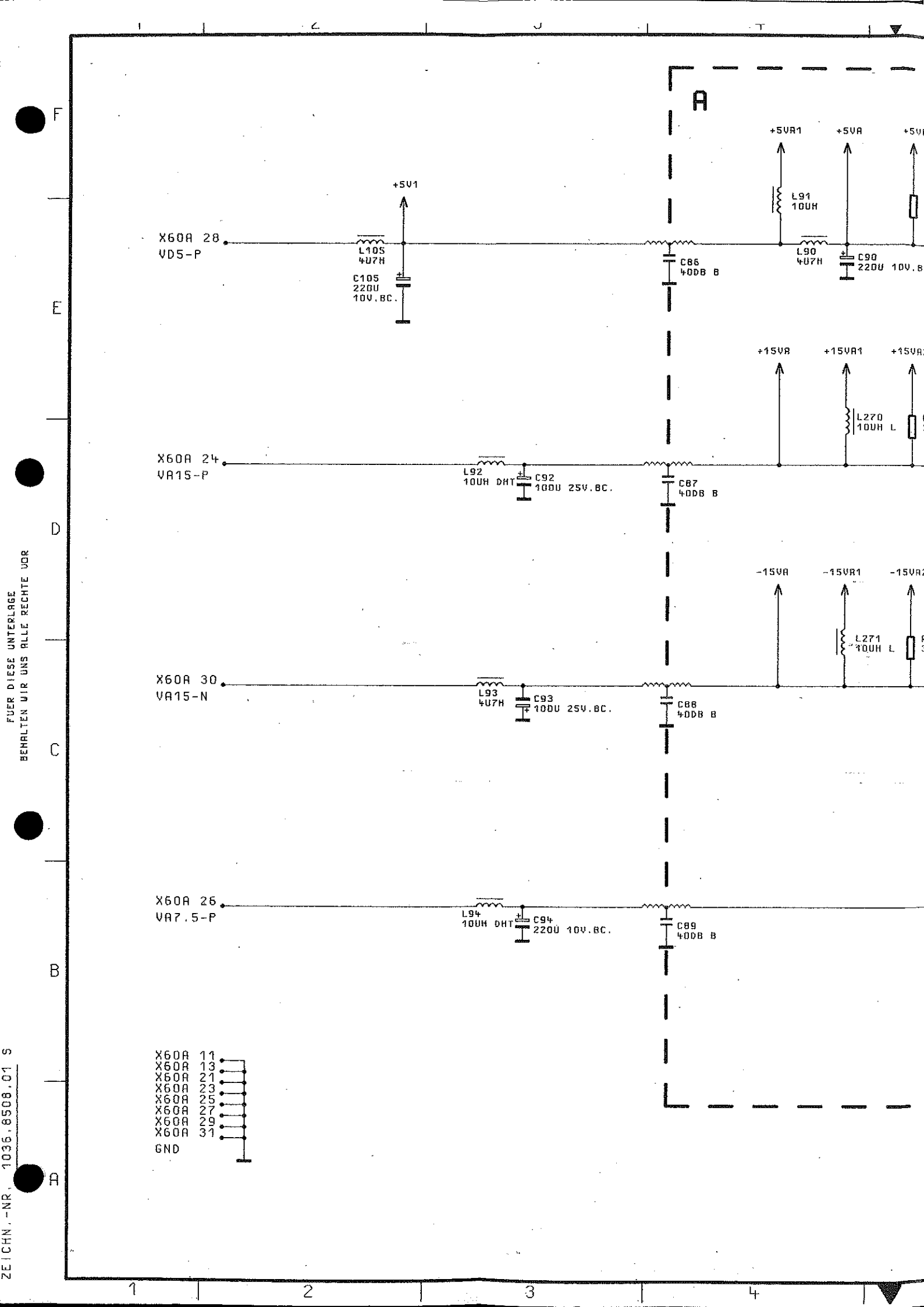
STROMLAUF GILT FUE

CIRCUIT DIAGRAM IS VALID FO

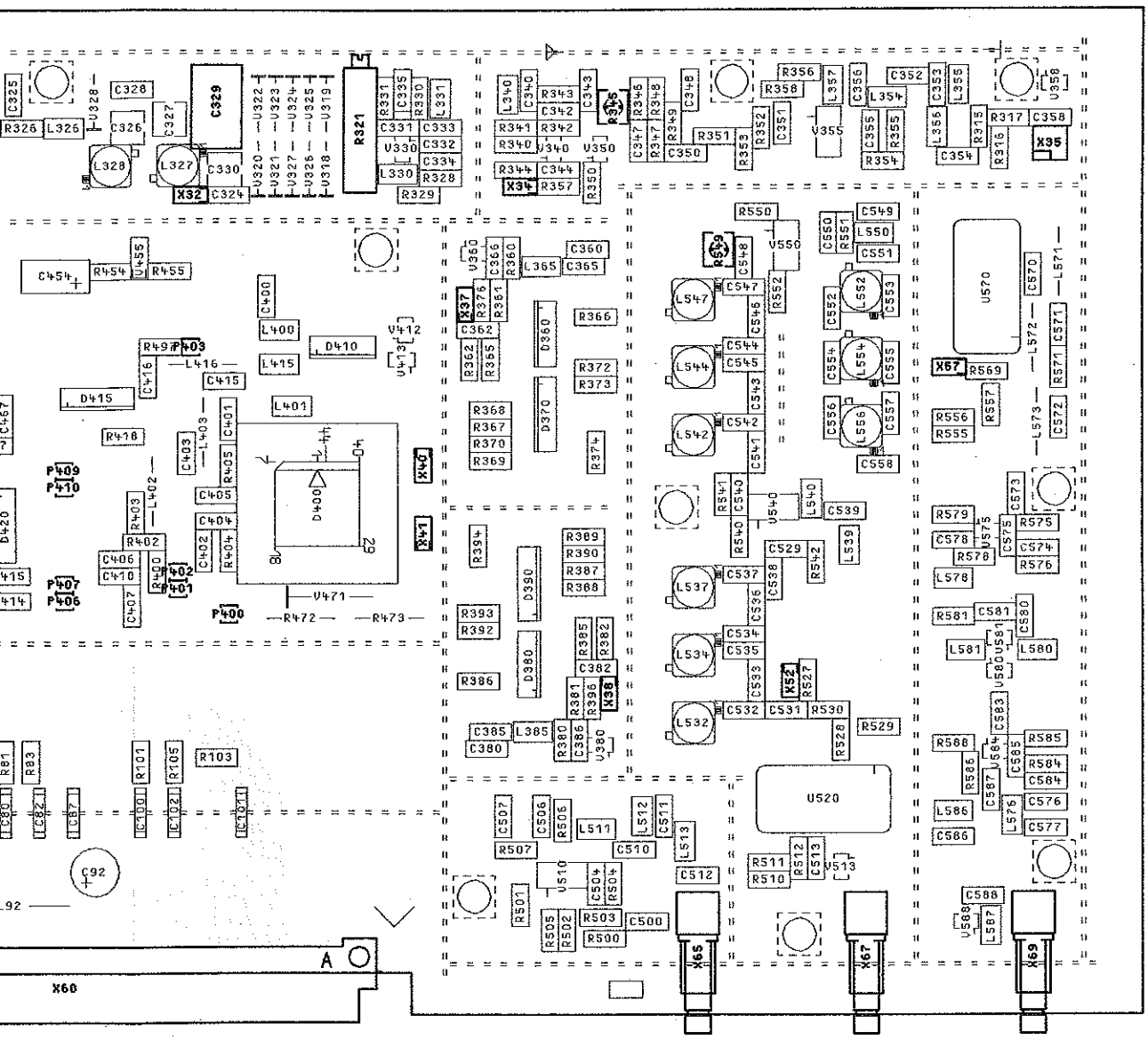
ACHTUNG: EGI
ELEKTROSTATISCH GEFA
BAUELEMENTE ERFORDE
BESONDERE HANDHA

ATTENTION ES
ELECTROSTATIC SENSITI
REQUIRE A SPECIAL H

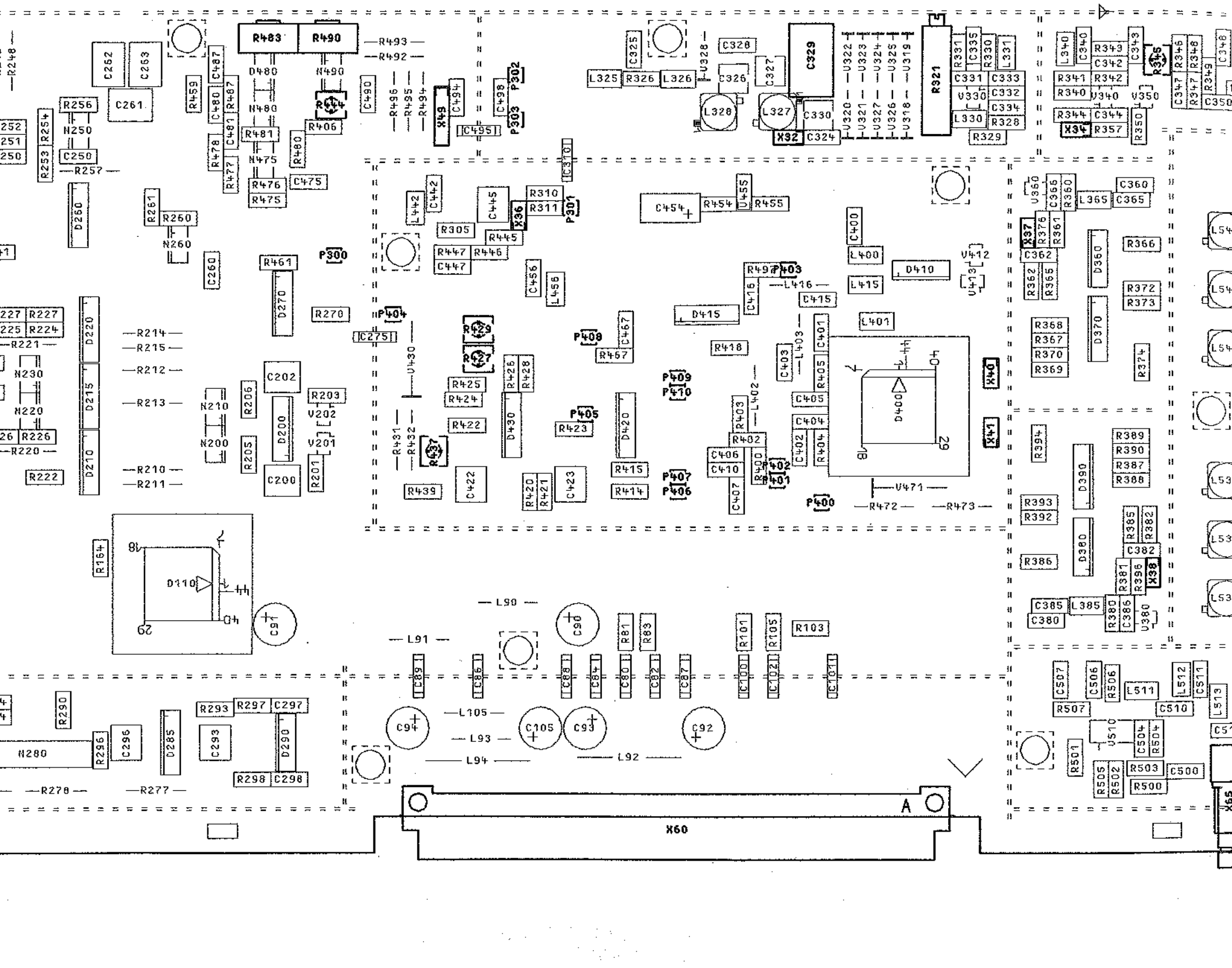

A
+5V1
L105
4U7H
C105
220U
10V.8C.
C86
400B B
+5VA1
+5VA
+5VA2
+5VA3
+5VA4
+5VA5
L91
10UH
L90
4U7H
C90
220U 10V.8C.
R138
33R2 L
R151
22R1 L
R166
22R1 L
+15VA
+15VA1
+15VA2
+15VA3
+15VA4
+15VA5
L92
10UH DHT
C92
100U 25V.8C.
C87
400B B
L270
10UH L
R280
33R2 L
R282
33R2 L
R284
33R2 L
-15VA
-15VA1
-15VA2
-15VA3
-15VA4
-15VA5
L93
4U7H
C93
100U 25V.8C.
C88
400B B
L271
10UH L
R281
33R2 L
R283
33R2 L
R285
33R2 L
L94
10UH DHT
C94
220U 10V.8C.
C89
400B B



FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



04/01	48743 09	28.05.93	BU	1GPK	TAG	NAME	BENENNUNG
				BEARB.		BAUR	FM MODULATOR
				GEPR.		BU	FM MODULATOR
				NORM			Z
				PLOTT	26.05.93		
03/01	48743 07	17.03.93	BU	ROHDE&SCHWARZ			ZEICHN.-NR. 1036.8508.01 EE
RENO IND.	RENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERÄT SM-B5			BLATT-NR. 1+
							REG.I.V. 1036.8489 ERSTE Z.



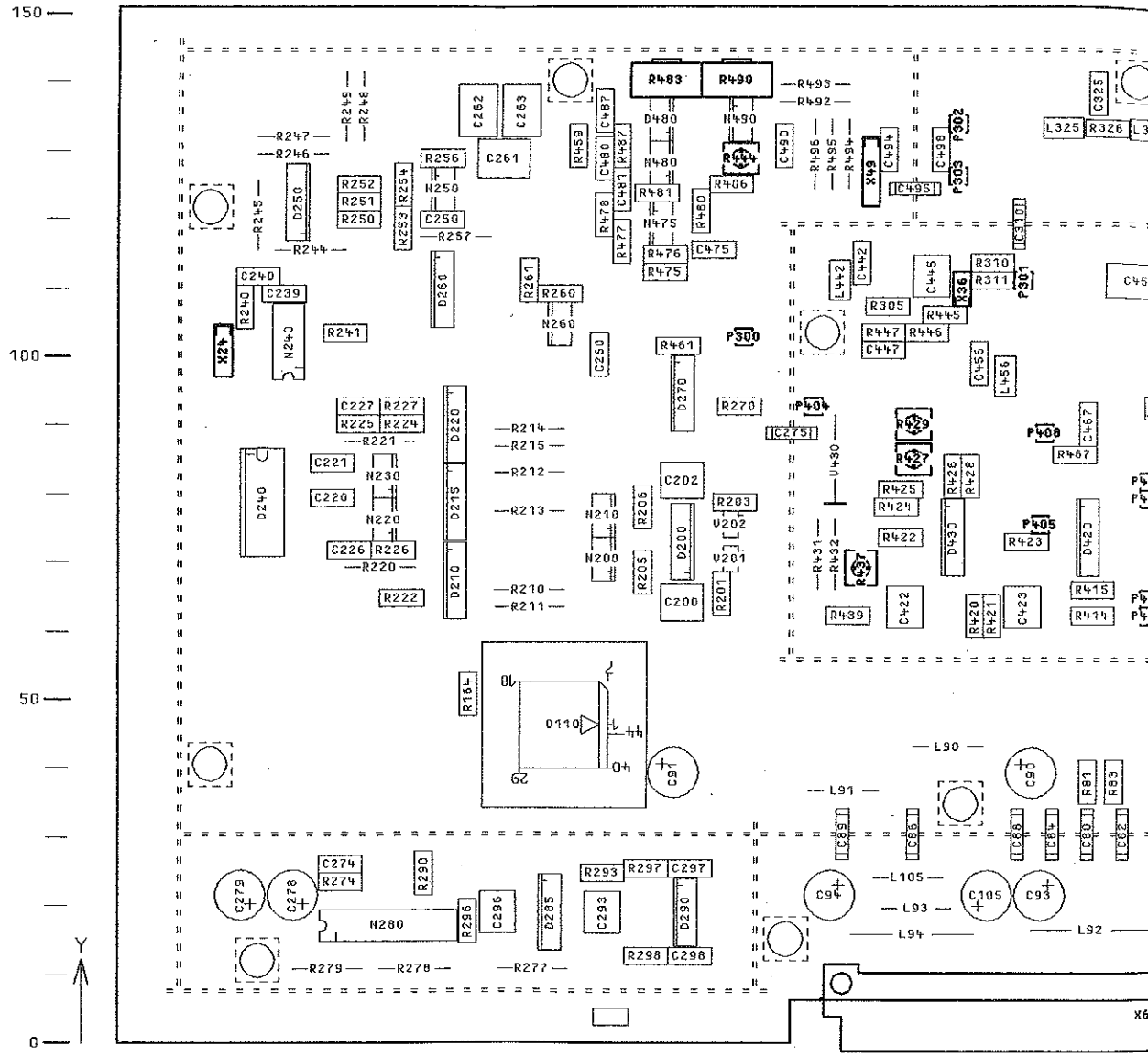
EGB!
… GEFAEHRDETE
… FORDERN EINE
… ANDHABUNG.
ESD!
… NSITIVE DEVICES
… IAL HANDLING

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.

04/01	48743 09	28.0
03/01	48743 07	17.0
AEND. IND.	AENDERUNGS- MITTEILUNG	DA

4 5 6 7 8 9



DARSTELLUNG SEITE B

VIEW ON SIDE B

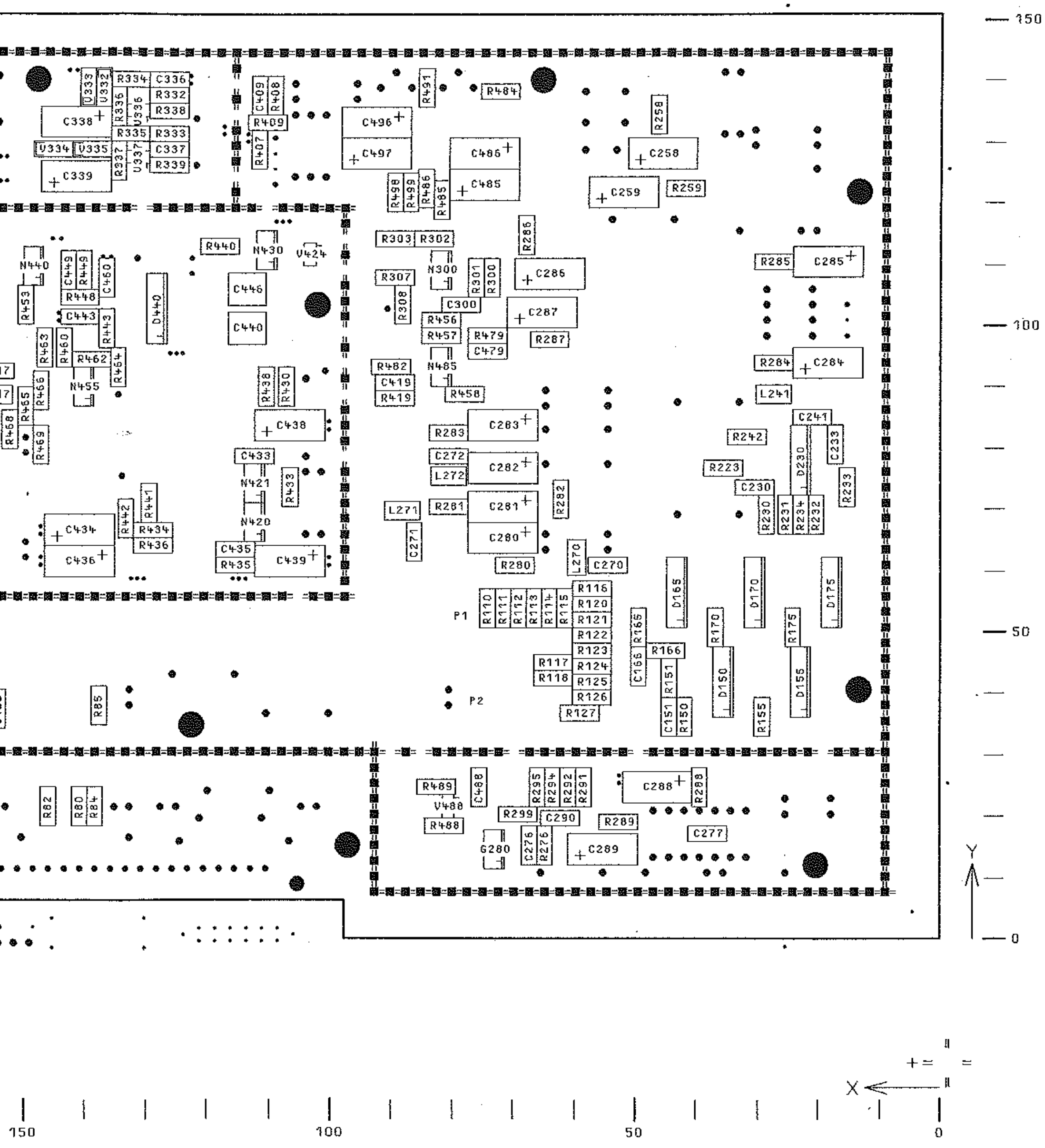
ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.

ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

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

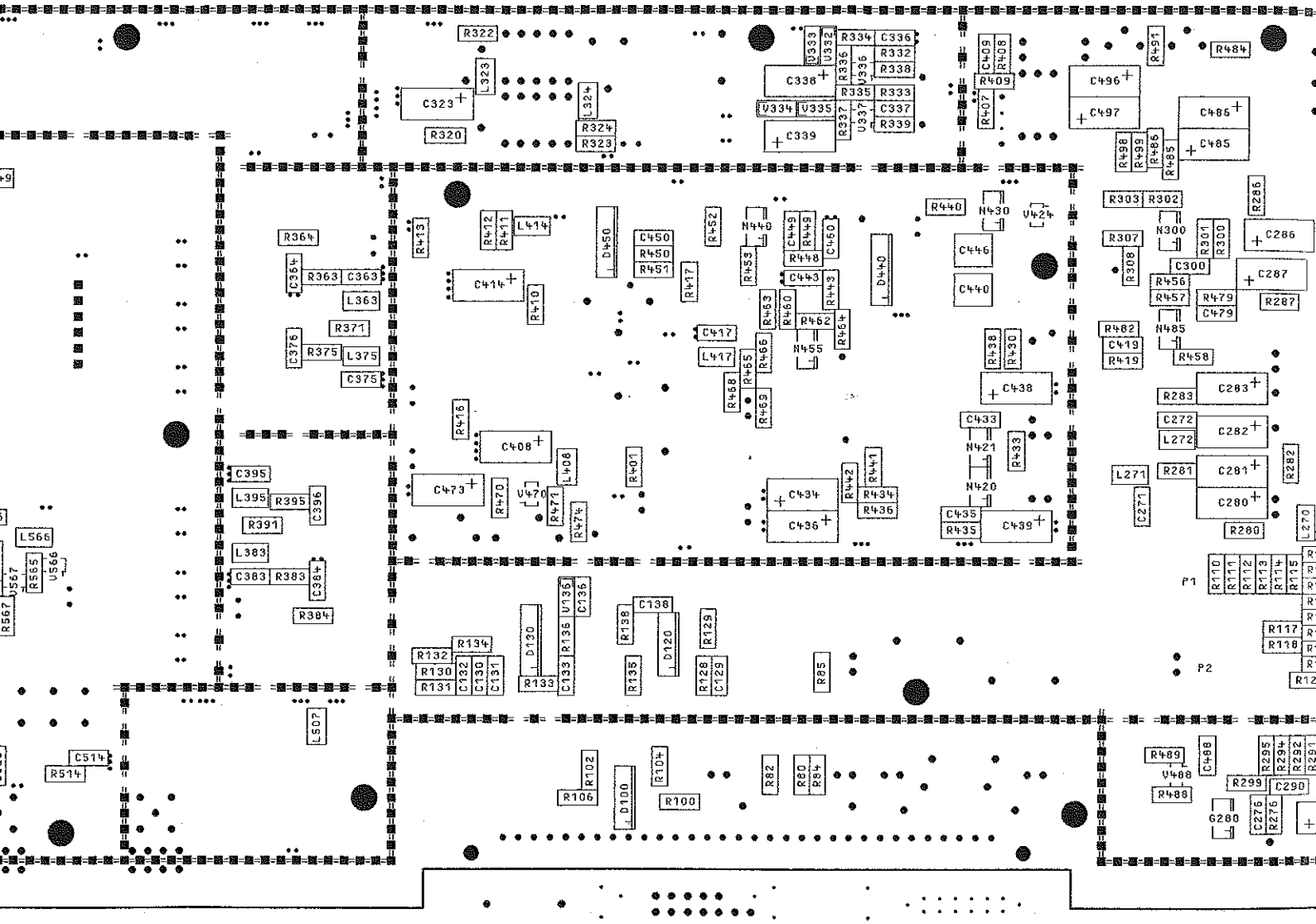
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

DIESE ZEICHNUNG IST EIN RECHNERAUSDRUCK, RENDERUNGEN KOENNEN NUR DURCH RENDERN DES DATENSATZES ERFOLGEN



04/01	48743 09	26.05.93	BU	1GPK	TAG	NAME	BENENNUNG	
				BEARB.		BAUR	FM MODULATOR	Z
				GEPR.		BU	FM MODULATOR	
				NORM				
				PLOTT	26.05.93		ZEICHN.-NR.	BLATT-NR.
03/01	48743 07	17.03.93	BU	ROHDE&SCHWARZ			1036.8508.01 EE	2-
AEND. IND.	AENDERUNGS-MITTEILUNG	DATUM	NAME	ZU GERAET	SM-B5		REG.I.V. 1036.8489	ERSTE Z.

7 8 9 10 11



250 200 150 100

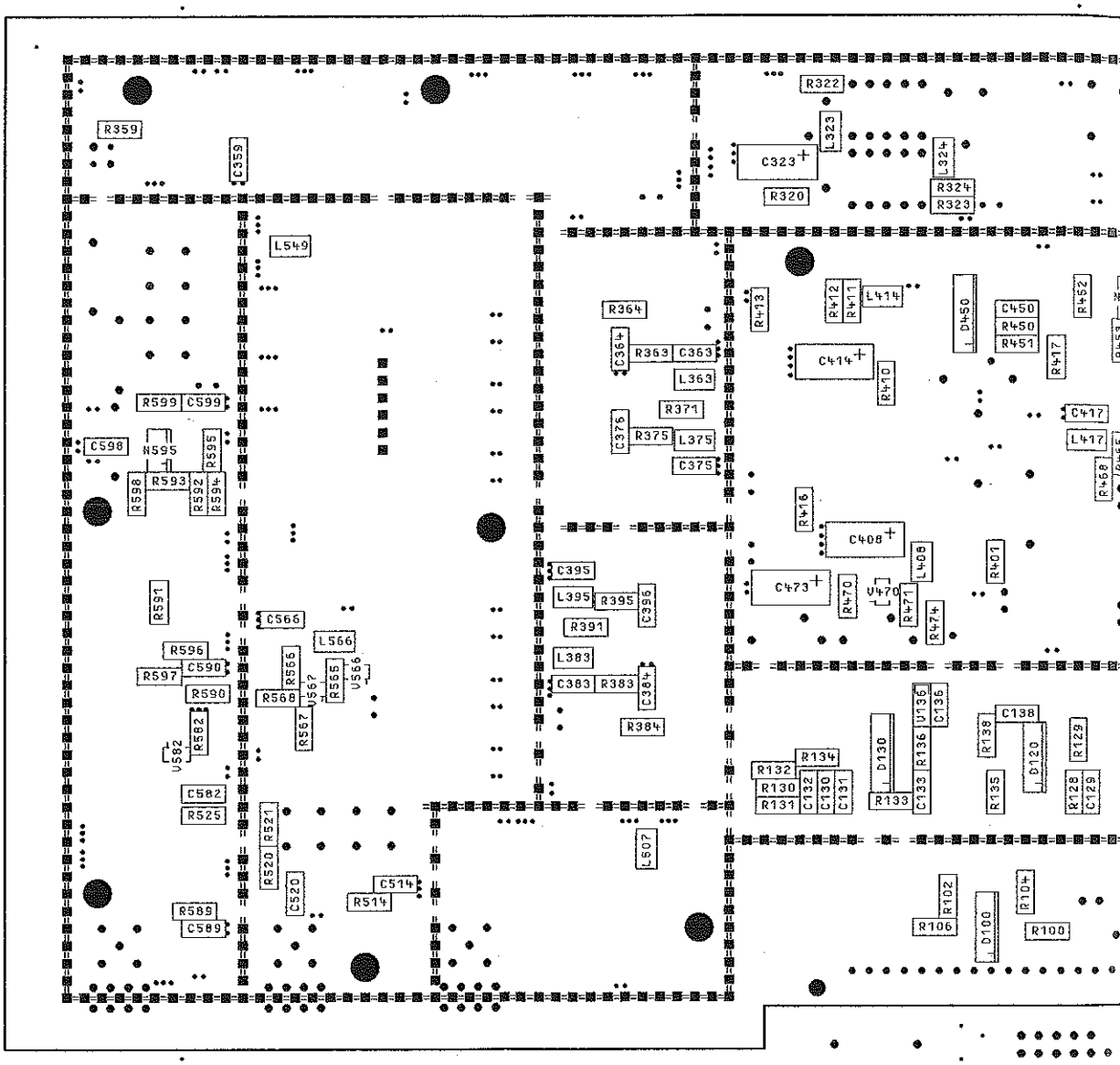
TUNG: EGB!
STATISCH GEFAEHRDETE
ENTE ERFORDERN EINE
NDERE HANDHABUNG.
NTION ESD!
ATIC SENSITIVE DEVICES
A SPECIAL HANDLING

BINDEHOE 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.

04/01	48743 09
03/01	48743 07
AEND. IND.	AENDERUNGS-MITTEILUNG

4 5 6 7 8 9



300 250 200 15

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

BINDEHOC 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.

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