PSM-5

Anmerkungen zu den Stromlaufplänen (Circuit Diagram Details)

Alle angegebenen Spannungen sind mit einem Instrument 100 kΩ/V gegen 0 V gemessen
(All voltage ratings measured with respect to 0 V with 100 kΩ/V meter).

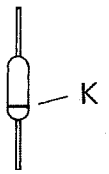
Die mit **"TP"** bezeichneten Punkte sind Testpunkte
(The points marked with **"TP"** are test points)

Belastbarkeit der Widerstände (Resistor Ratings)

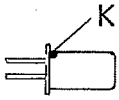
1/4 W 1/3 W 1/2 W ab 1 W röm. Ziffern (roman numerals upwards from 1 W)

Anschlußschemas (Connection Details)

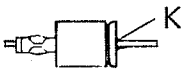
Dioden (Diodes)



AA 118, AA 135, AAZ 13, BA 102, BA 109, BA 109/I, BA 109/II, BA 110, BA 111, BA 112, BA 120, BAY 31, BAY 72, FD 600, HD 5001, OA 127, OA 128, OA 132, OA 159, OA 182, ZF 5,1; ZF 6,2; ZF 10, ZF 12, ZF 15, ZG 6,8; ZG 8,2; ZG 10, ZG 12, ZG 18, ZM 15, 1 N 82, 1 N 914

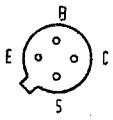


AAZ 12, FD-5, Z 8, ZG 18

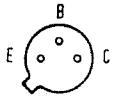


ZD 10

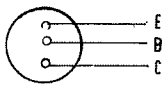
Transistoren (Transistors)



AFY 18, ASY 26, ASY 27, ASY 29, ASZ 21, BCY 32, BCY 34, BSX 13, BSX 27, BSX 29, BSY 54, BSY 56, BSY 76, BSY 80, BSY 84, 2 N 708, 2 N 711, 2 N 904, 2 N 930, 2 N 936, 2 N 960, 2 N 1907, 2 N 2049, 2 N 2219, 2 N 2368, 2 N 2369, 2 N 2475, 2 N 2904, 2 N 2905, 2 N 3251

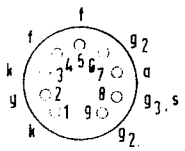


2 N 2708, 2 N 918

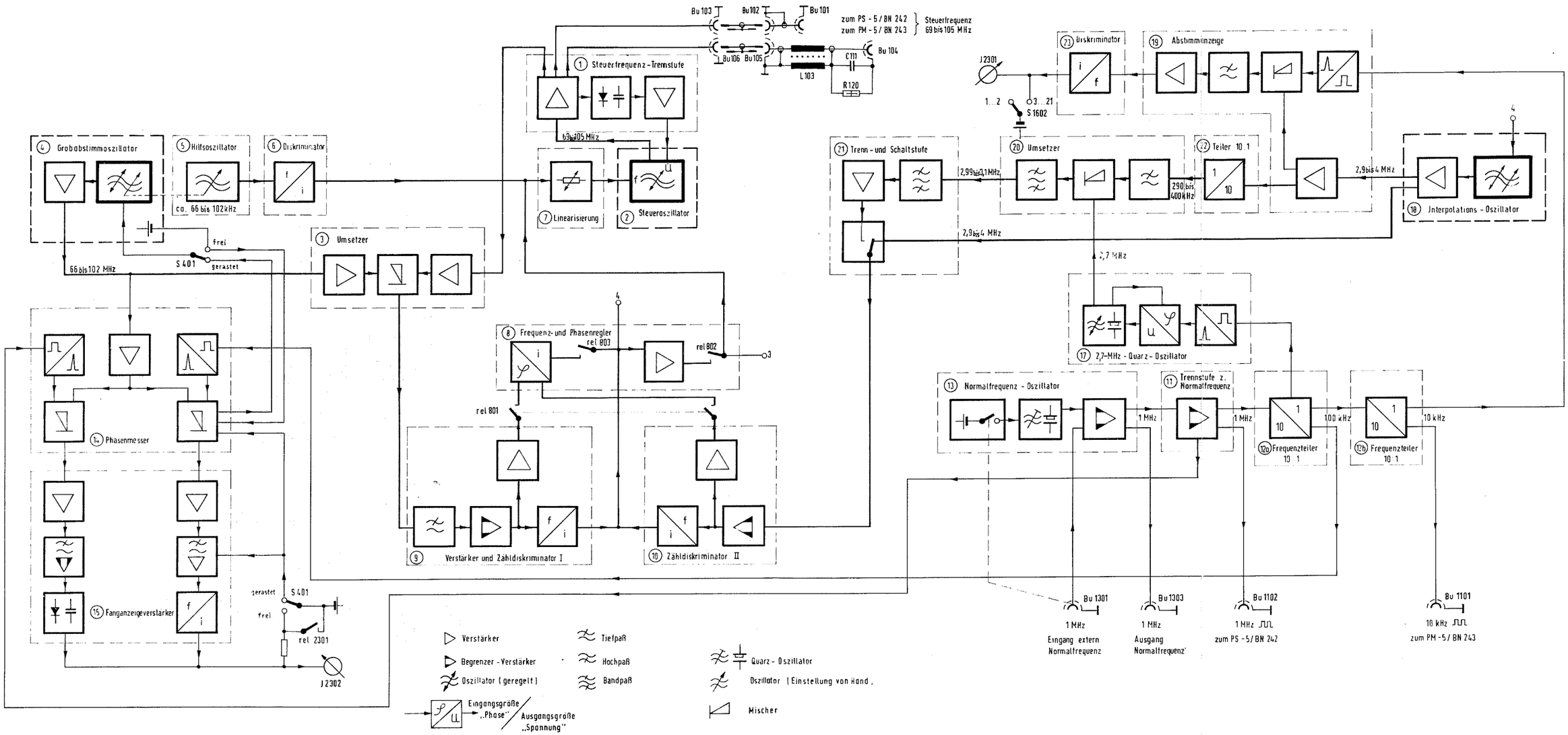


BCZ 12

Röhre (Tube)

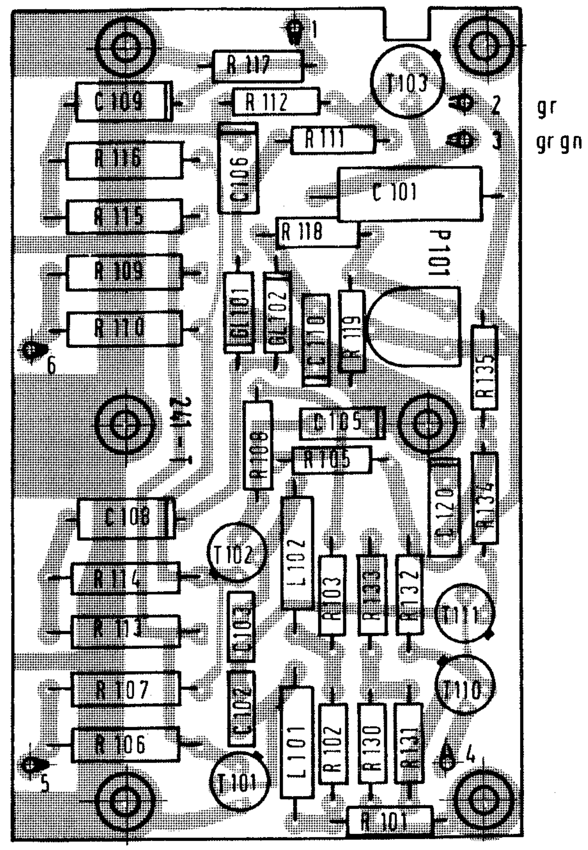


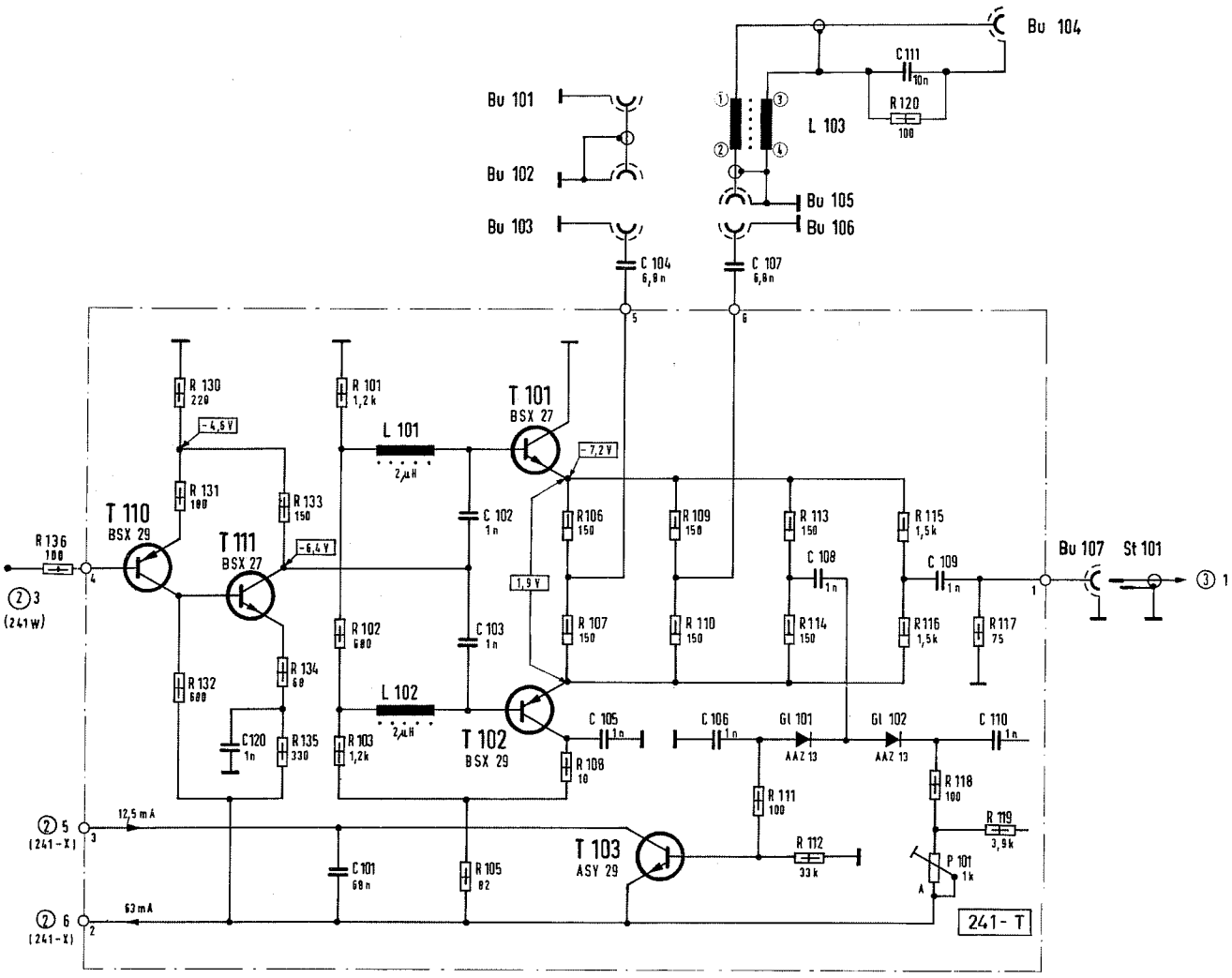
E 810 F



Betriebsart	Normal: Fernsteuerung		Wobbeln: Frequenzhub																		
Schalter S 1602 in Stellung:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			Hz						kHz									MHz			
			175	35	70	175	350	700	1,75	3,5	7	17,5	35	70	175	350	700	1,75	3,5	7	17,5
Sägezahnstrom geht zu:			Schaltung 18, Punkt 4						Schaltung 8, Punkt 4									Schaltung 8, Punkt 3			
erregt wird Relais			801, 802, 803						802									2301			
Ausgangssignal der Trenn- und Schaltstufe (21)	2,99 bis 3,1 MHz	2,9 bis 4 MHz	2,99 bis 3,1 MHz						2,9 bis 4 MHz												

RWO - 5/BN 241
Blockschaltplan

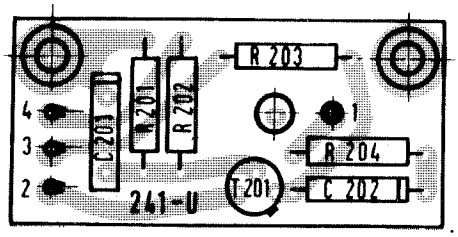

1
2
3
4
5
6
gr
gr gn
R 117
R 112
R 111
T103
C 109
R 116
R 115
R 109
R 110
C106
C 101
R 118
P101
GL101
GL102
C 110
R 119
R135
C 105
R 105
R 108
241
C 108
T102
L102
R103
R133
R132
C 120
R134
R 114
R 113
C103
T111
T110
R 107
C 102
R 106
L101
R102
R130
R131
T101
R 101

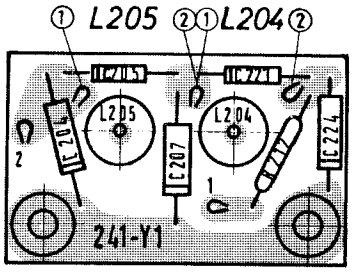


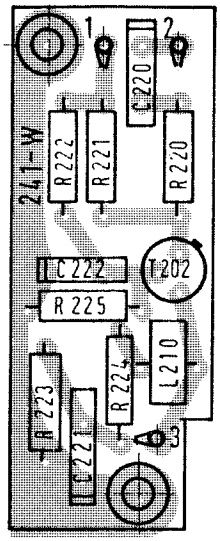
RWO-5/BN 241

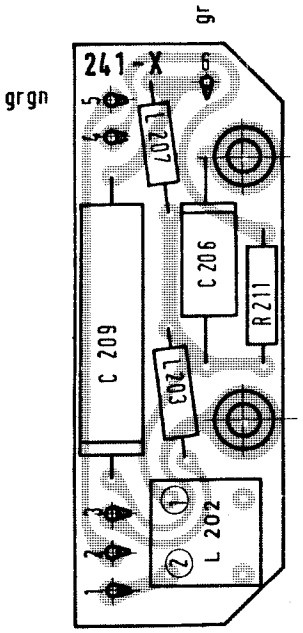
Steuerfrequenz-Trennstufe (1)

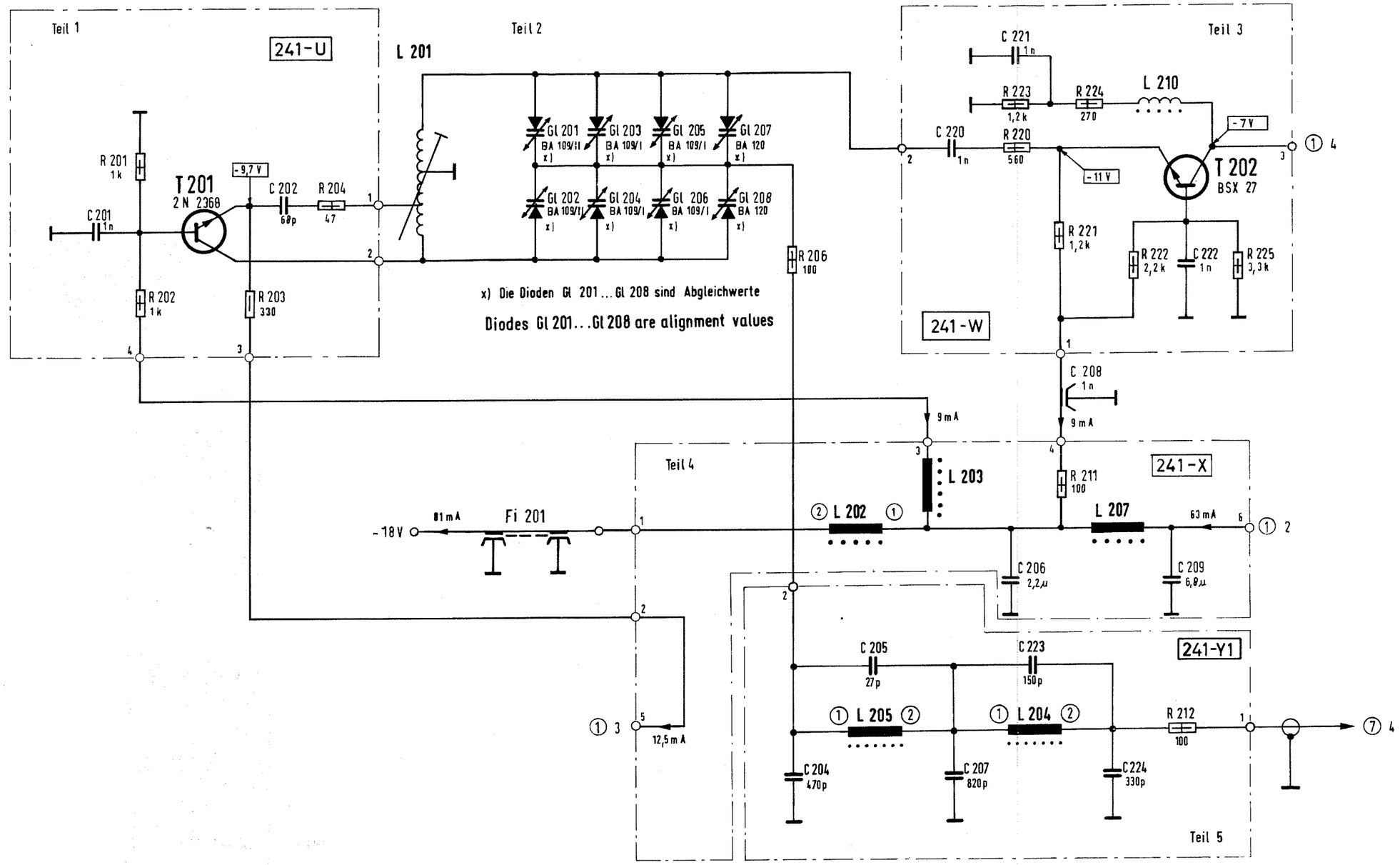
(Control Frequency Buffer-Stage)


R 203
C 201
R 201
R 202
R 204
T 201
C 202
241-U


L205
L204
L205
L204
C 201
L205
C 207
L204
C 224
241-Y1


C220
R 222
R 221
R 220
241-W
IC 222
T 202
R 225
L 210
R 224
R 223
IC 221

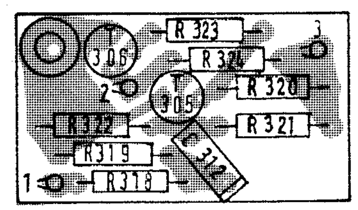

gr
grgn
241-X
L 207
C 206
R 211
C 209
L 203
L 202

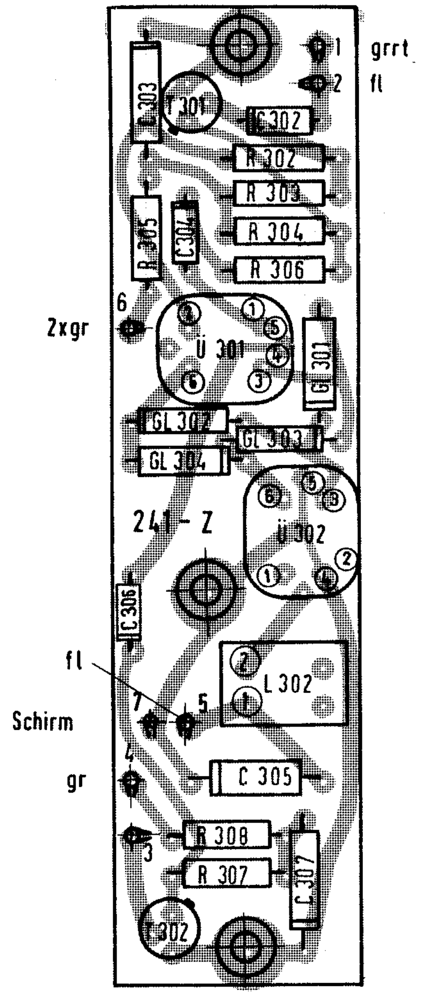


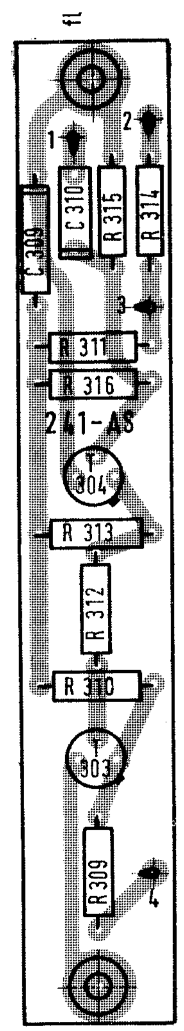
RWO-5/BN 241

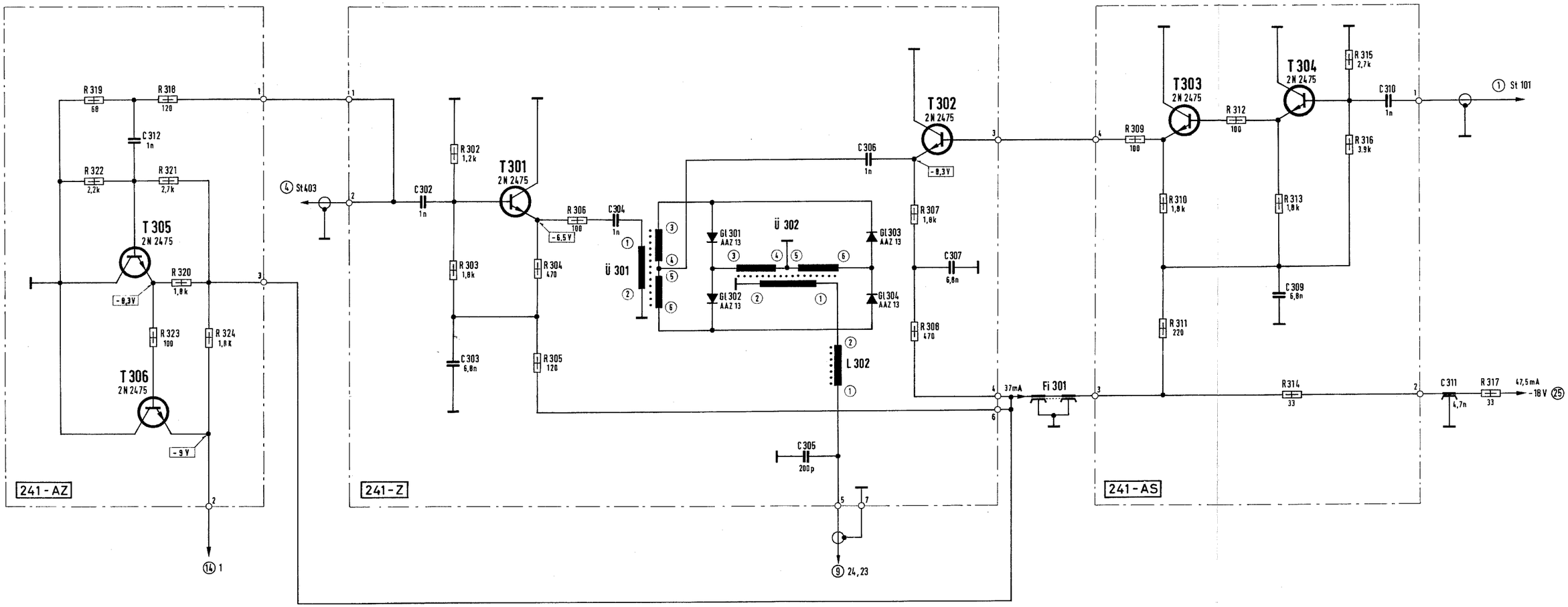
Steueroszillator (2)

(Control Oscillator)


R 323
R 324
R 320
R 321
R 322
R 319
R 318
C 312
T 306
T 305
1
2
3


grrt
fl
T 301
C 303
G 302
R 302
R 303
R 304
R 305
C 304
R 306
2xgr
Ü 301
Gl 301
GL 302
GL 303
GL 304
241 - Z
Ü 302
C 306
L 302
fl
Schirm
gr
C 305
R 308
R 307
C 307
T 302

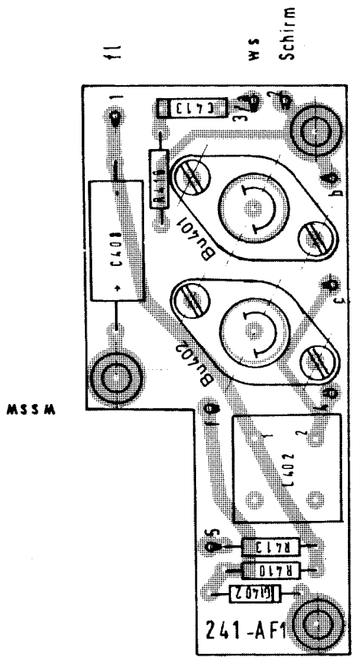

fl
C 309
C 310
R 315
R 314
R 311
R 316
241-AS
T 304
R 313
R 312
R 310
T 303
R 309

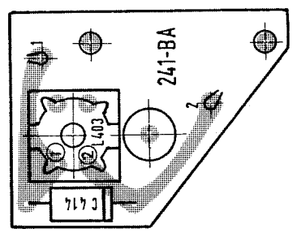


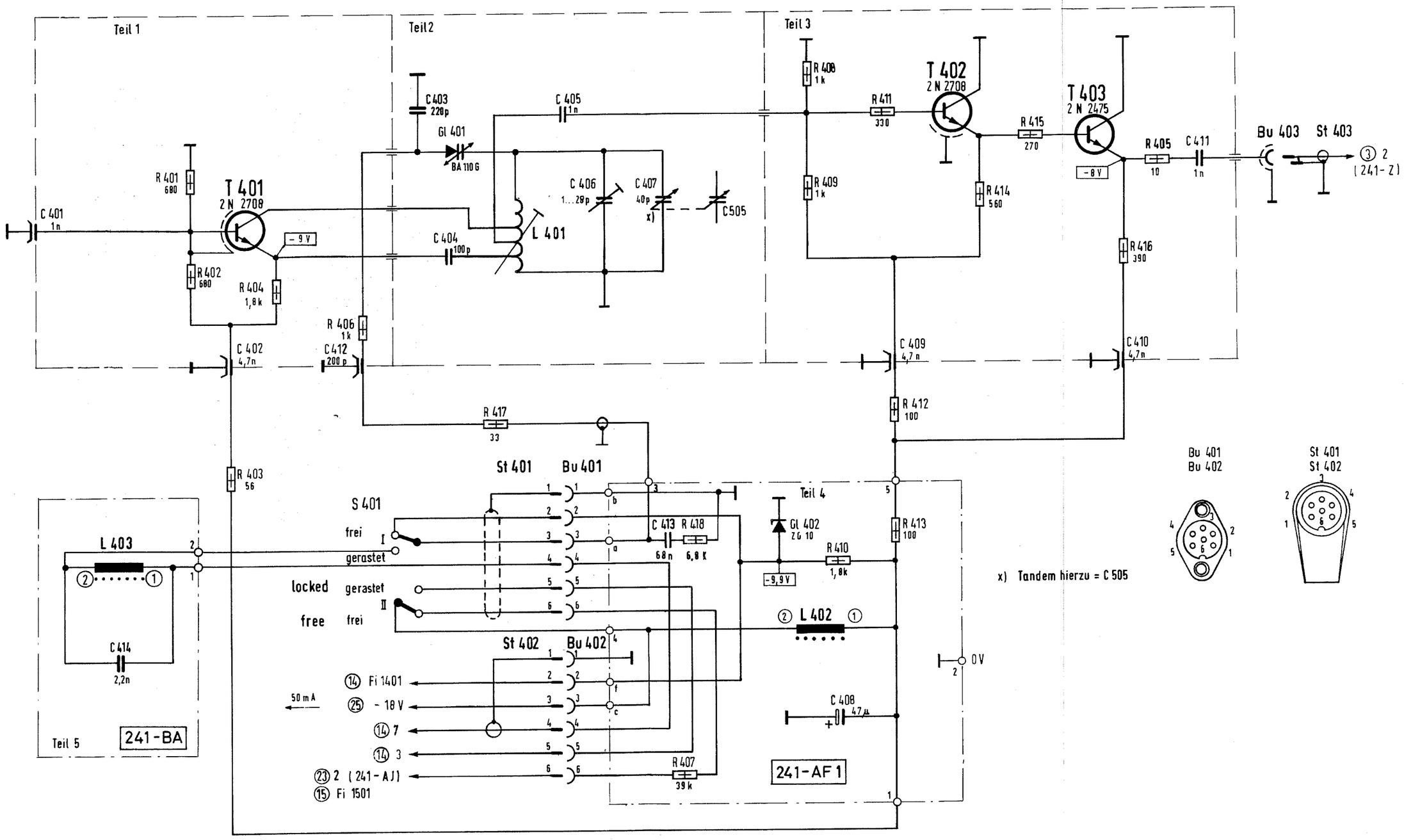
RWO-5/BN 241

Umsetzer (3)

(Frequency Converter)


rt
ws
Schirm
MSSM
241-AF1


241-BA

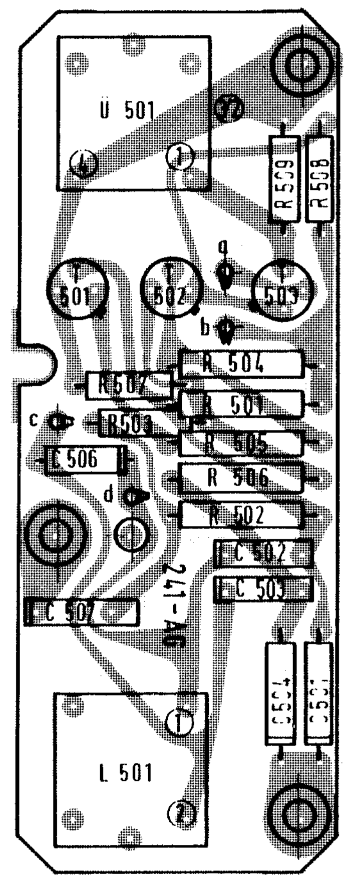


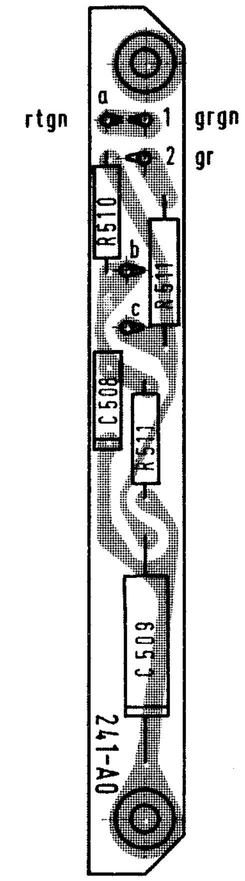
x) Tandem hierzu = C 505

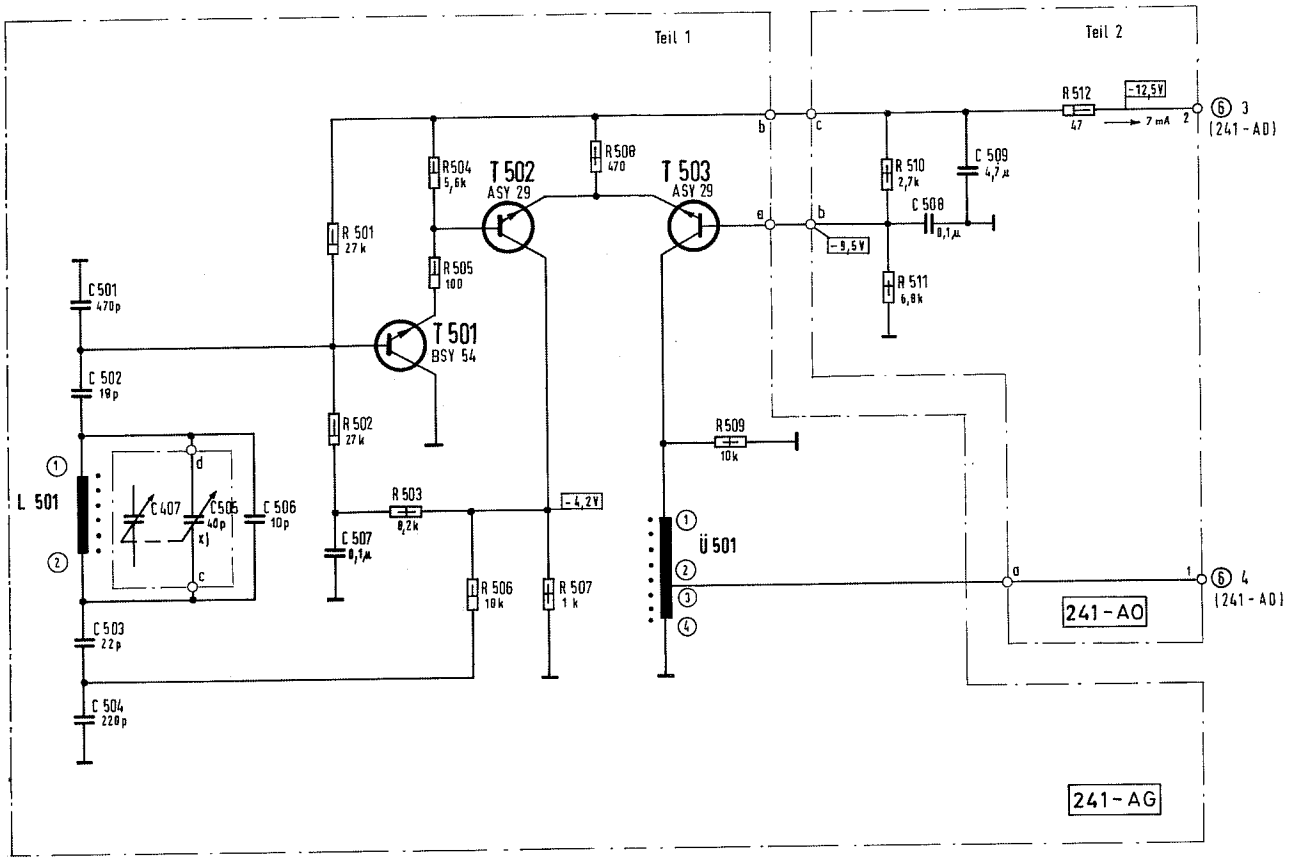
RWO-5/BN 241

Grobabstimmoszillator (4)

(Coarse-Tuning-Oscillator)


Ü 501
R 509
R 508
501
502
503
a
b
c
d
R 504
R 507
R 501
R 503
R 505
C 506
R 506
R 502
C 502
C 503
C 507
241-A6
L 501


rtgn
a
1
grgn
2
gr
R 510
b
c
R 511
C 508
C 509
241-A0

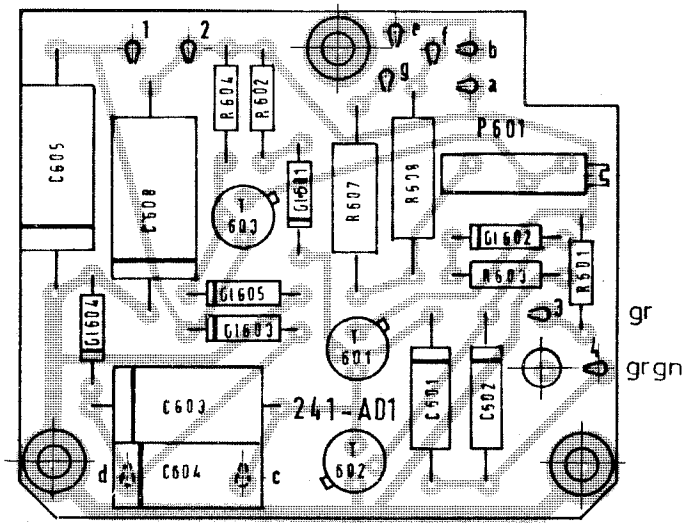


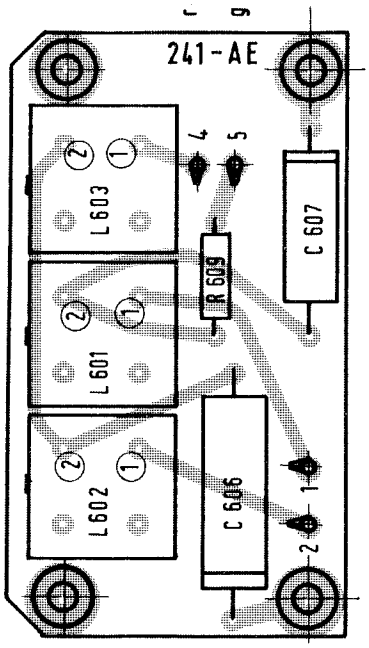
x) C 505 Tandem von C 407

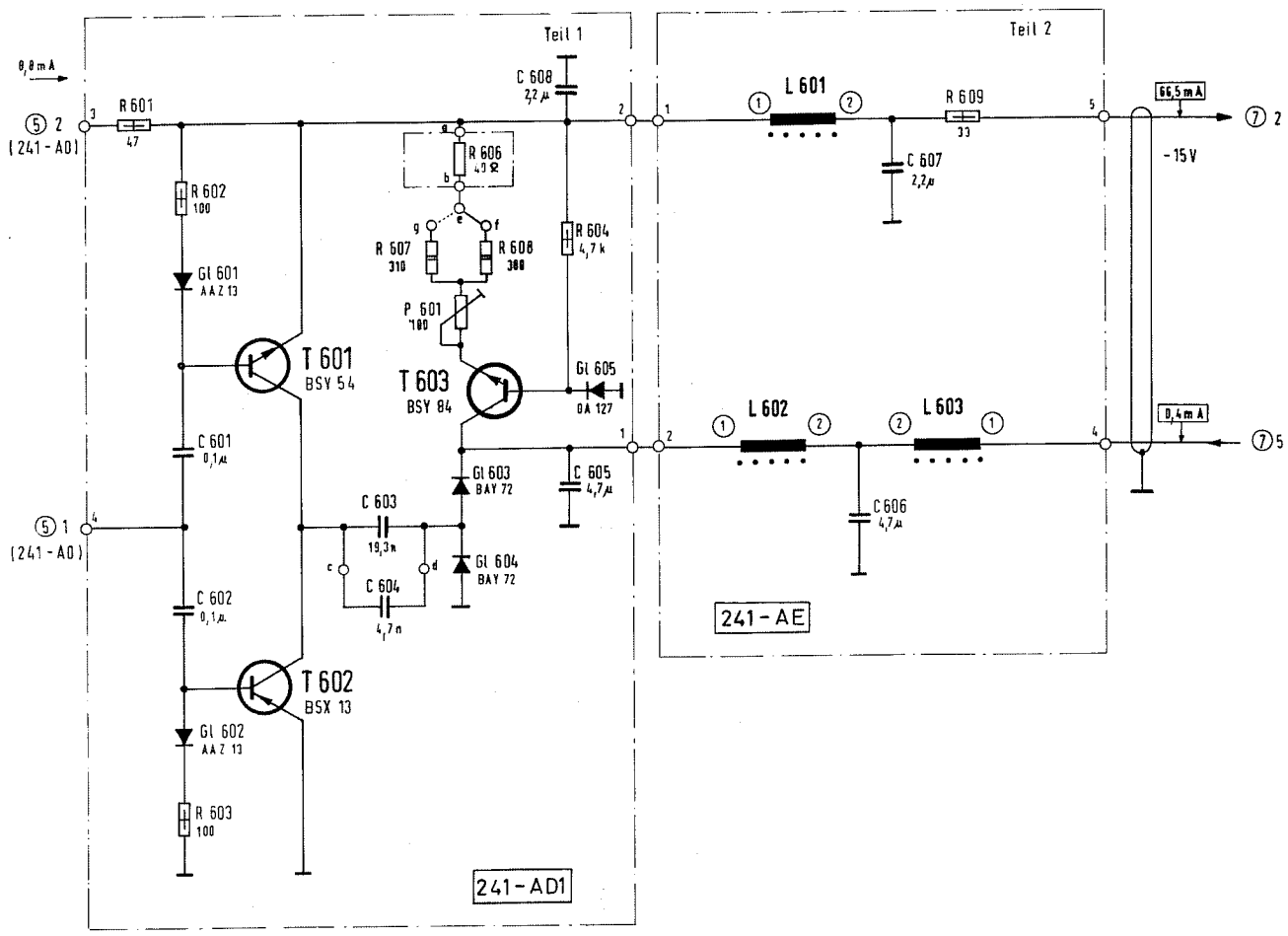
RWO-5/BN 241

Hilfsoszillator (5)

(Auxiliary Oscillator)


C605
C608
R604
R602
G1603
G1601
R607
R606
P601
G1602
R603
R601
G1605
G1604
G1603
G601
C603
241-AD1
C604
G602
C601
C607
gr
grgn


241-AE
L603
L601
L602
R609
C607
C606



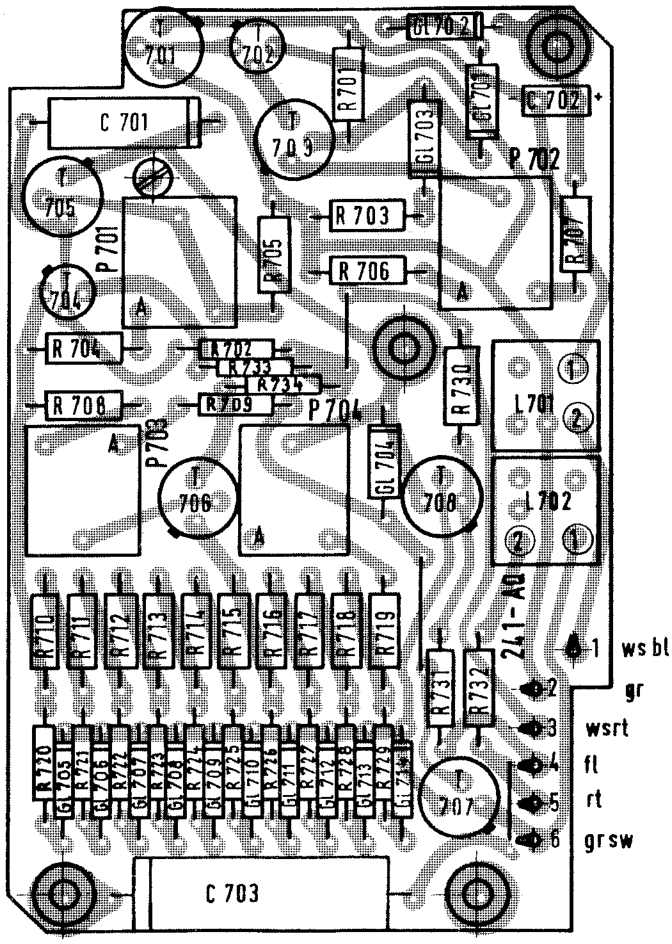
Gleichstromangaben gelten für 103 MHz Grobabstimmoszillator - Frequenz (Anschlag) und abgeglichene Stellung von P 601.

DC-current ratings valid for 103 MHz coarse tuning oscillator frequency and aligned position of P601

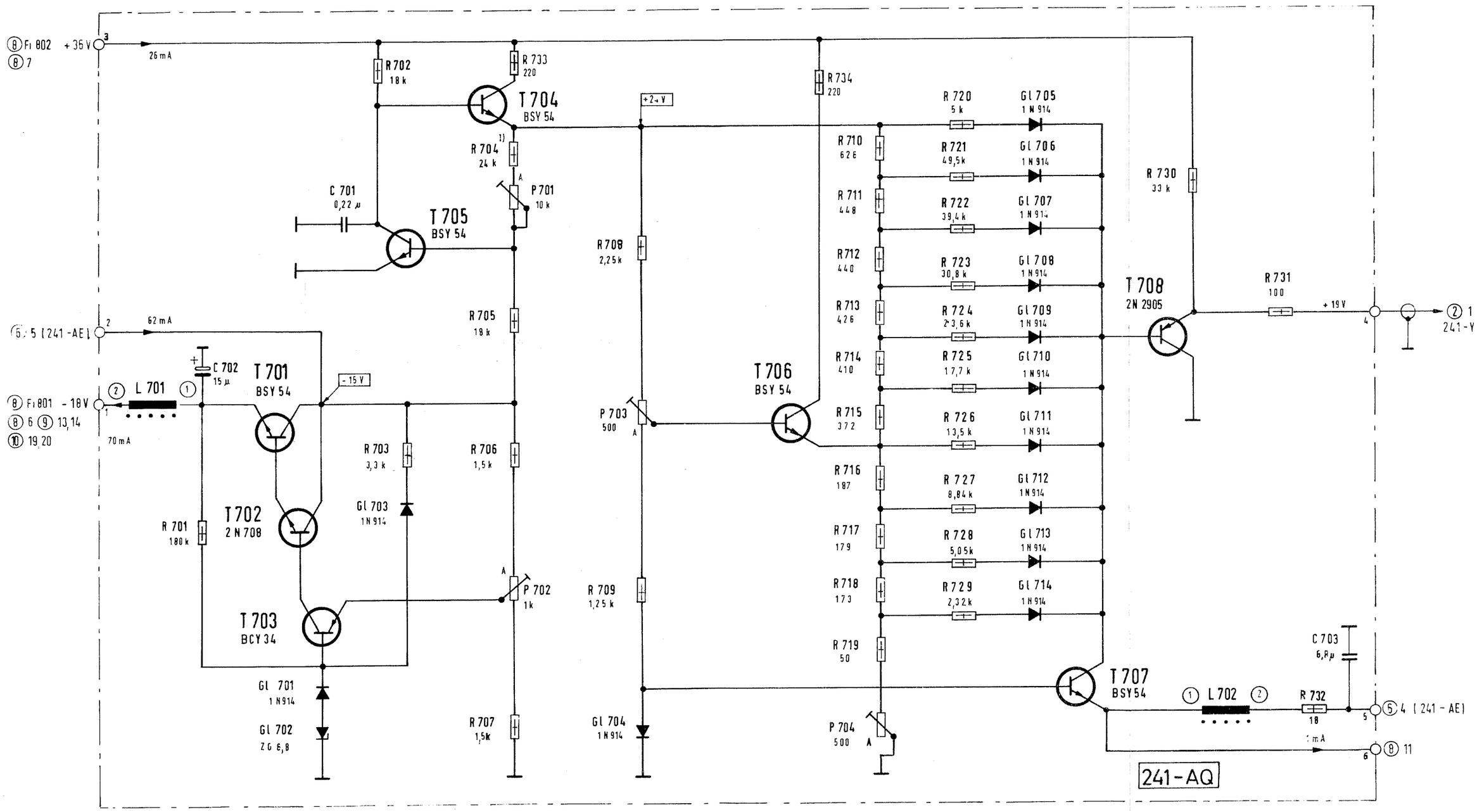
RWO-5/BN 241

Diskriminator für Hilfsoszillator (6)

(Discriminator for Aux. Osc.)



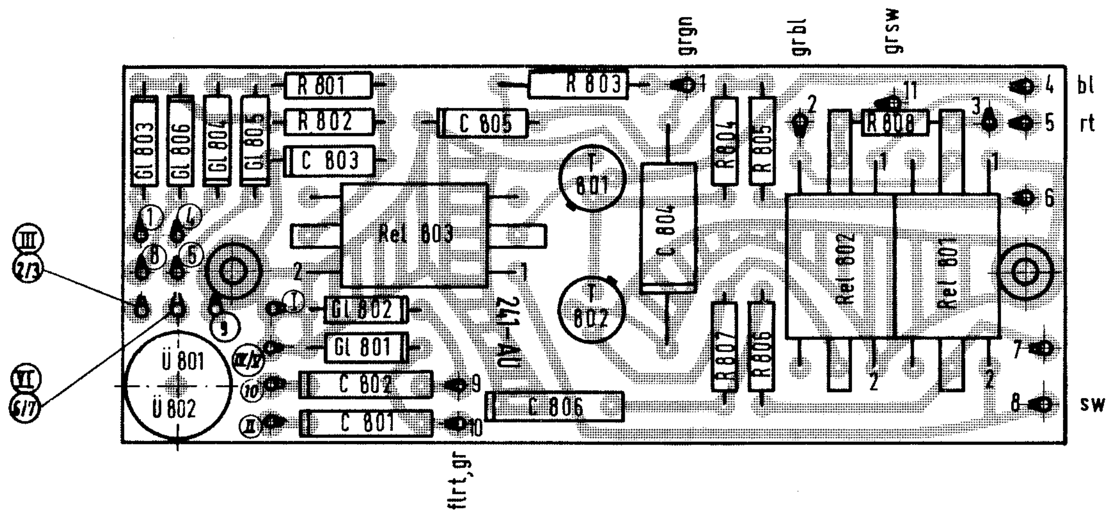
T 701
T 702
GL 702
C 702
C 701
T 703
R 701
GL 703
GL 701
P 702
T 705
P 701
R 705
R 703
R 706
R 707
T 704
R 704
R 702
R 733
R 734
R 708
R 709
P 704
P 703
R 730
L 701
L 702
GL 704
T 706
T 708
241-A0
R 710
R 711
R 712
R 713
R 714
R 715
R 716
R 717
R 718
R 719
R 731
R 732
1 ws bl
2 gr
3 wsrt
4 fl
5 rt
6 grsw
R 720
GL 705
R 721
GL 706
R 722
GL 707
R 723
GL 708
R 724
GL 709
R 725
GL 710
R 726
GL 711
R 727
GL 712
R 728
GL 713
R 729
GL 714
T 707
C 703



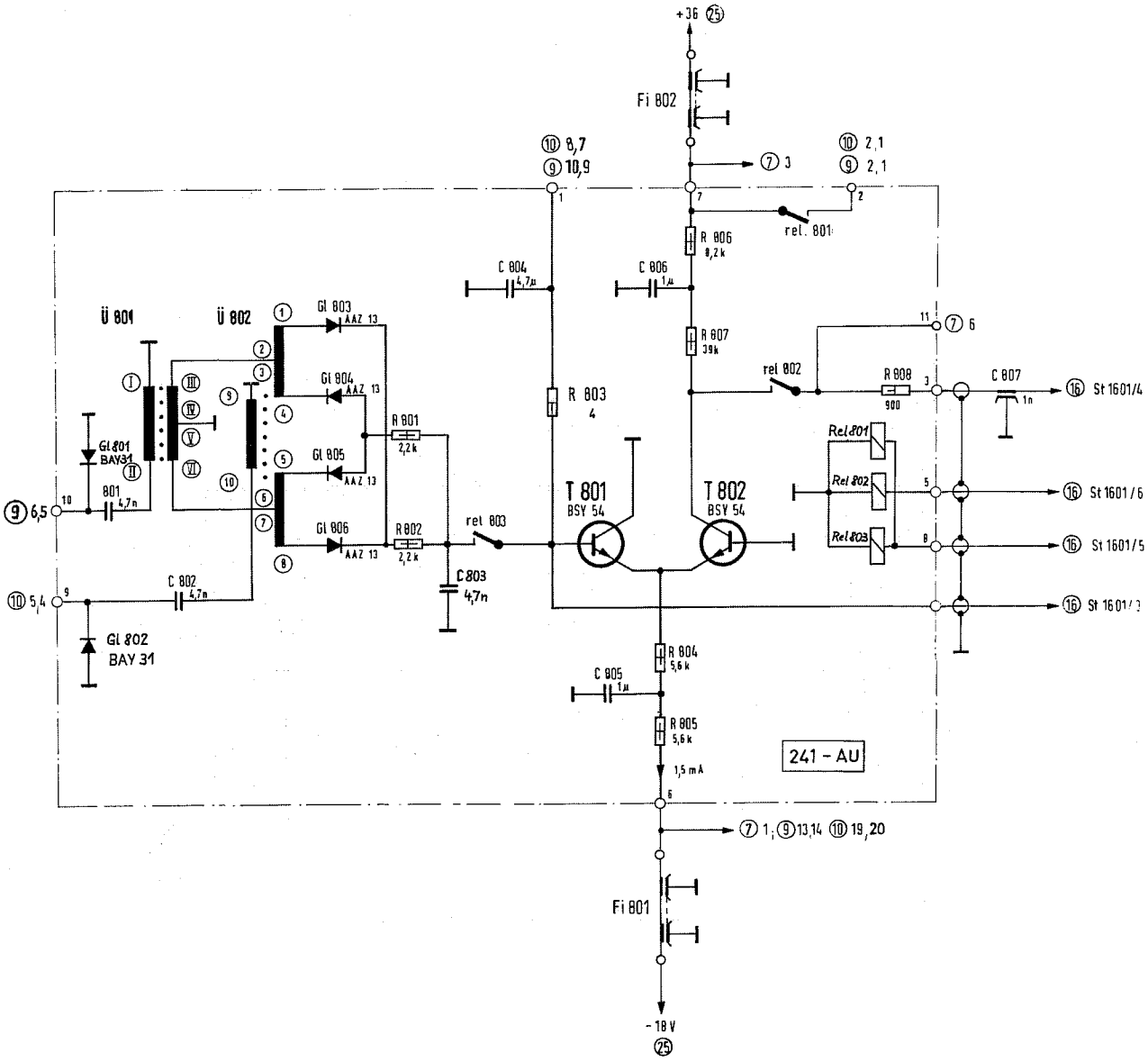
Serienanmerkungen:
(Modifications within the production run series:)

1) Serie A bis E: R704/19,5k

RWO-5/BN 241
Linearisierung (7)
(Linearizing Network)



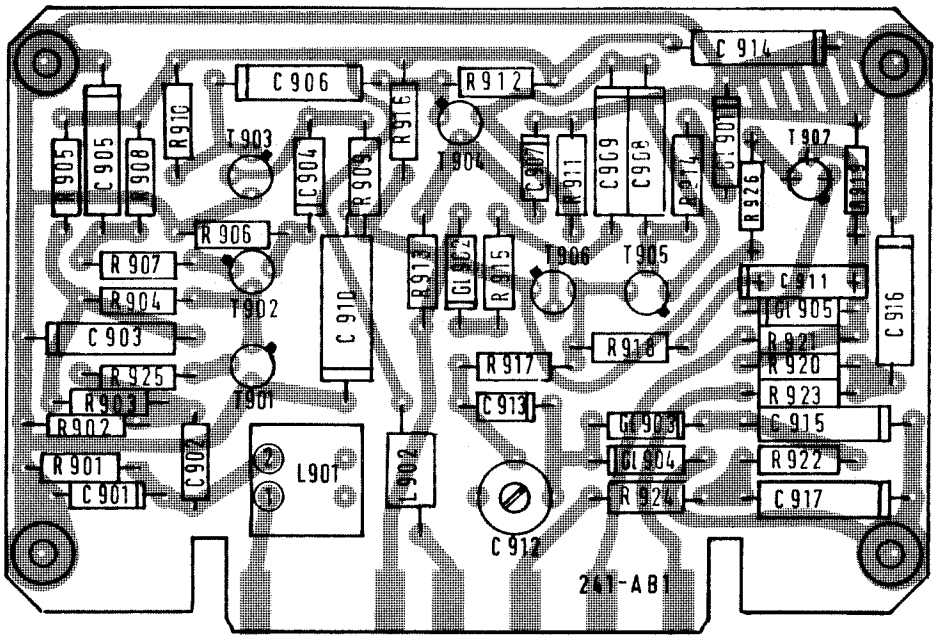
grgn
grbl
grsw
bl
rt
sw
R 801
R 802
R 803
R 804
R 805
R 806
R 807
R 808
C 801
C 802
C 803
C 804
C 805
C 806
Gl 801
Gl 802
Gl 803
Gl 804
Gl 805
Gl 806
Rel 801
Rel 802
Rel 803
T 801
T 802
Ü 801
Ü 802
241-AU
fl rt, gr



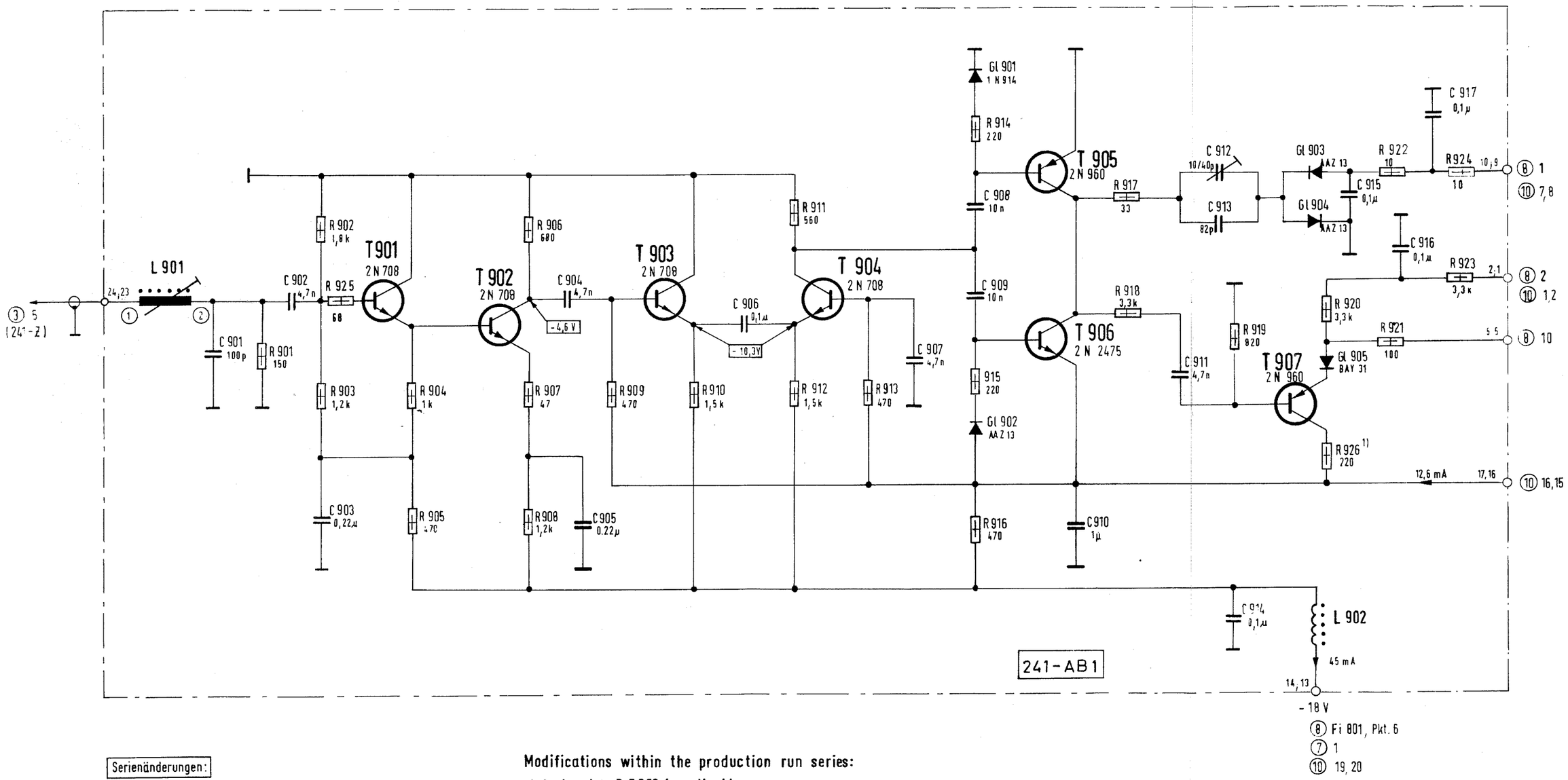
RWO-5/BN 241

Frequenz- und Phasenregler (8)

(Frequency- and Phase Control)



24/23 17/16 14/13 10/9 6/5 2/1



Serienänderungen:

1) Serie A...D: R926 entfällt.

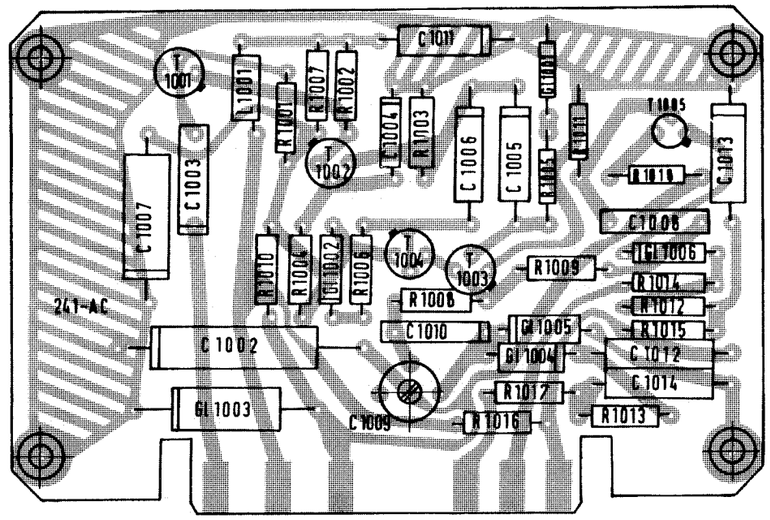
Modifications within the production run series:

1) Series A to D: R926 inapplicable

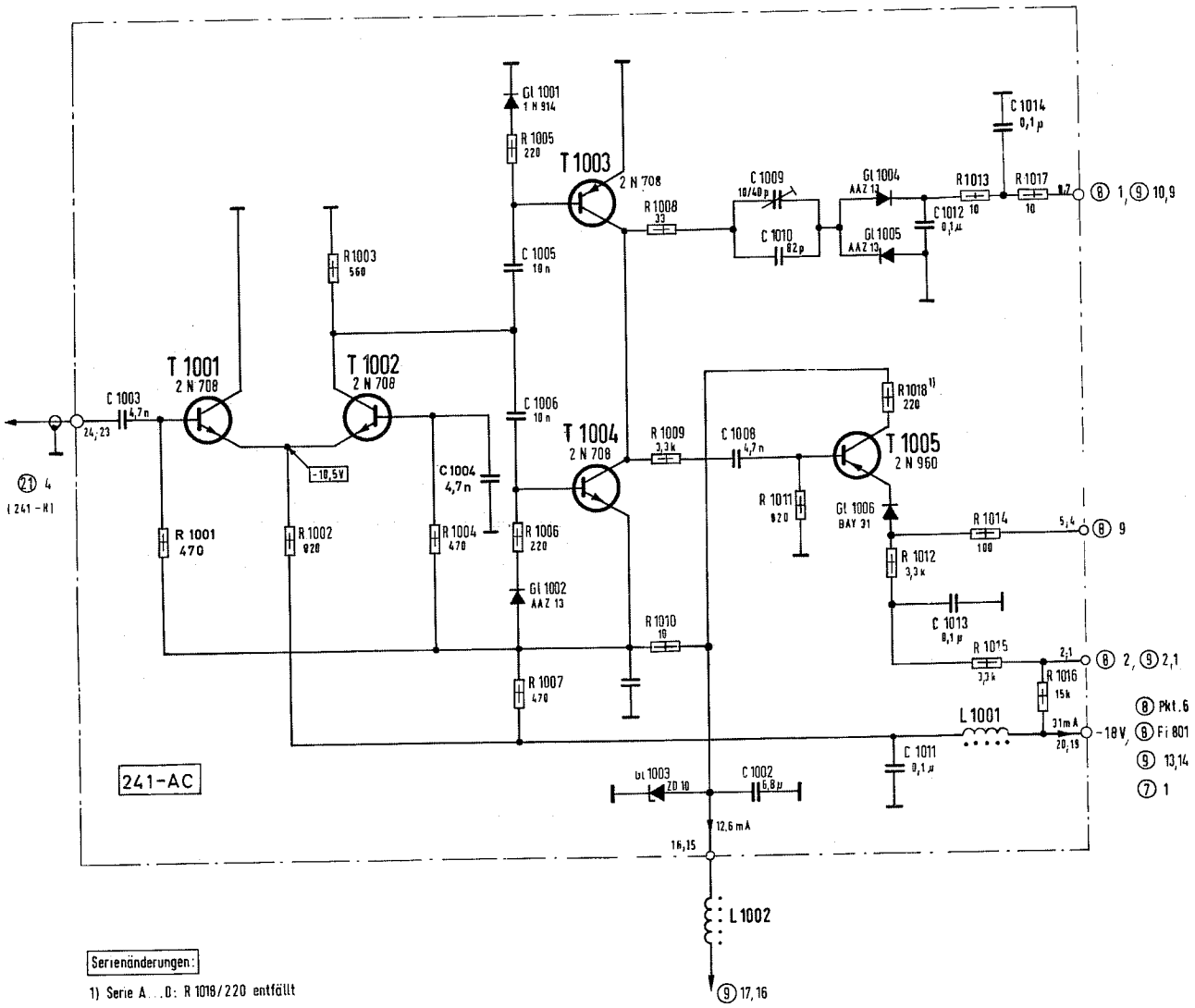
RWO-5/BN 241

NF-Verstärker und Zähldiskriminator I (9)

(AF-Amplifier and Counting Discriminator I)



24/23 20/19 16/15 8/7 5/4 2/1



Serienänderungen:

1) Serie A...D: R 1018/220 entfällt

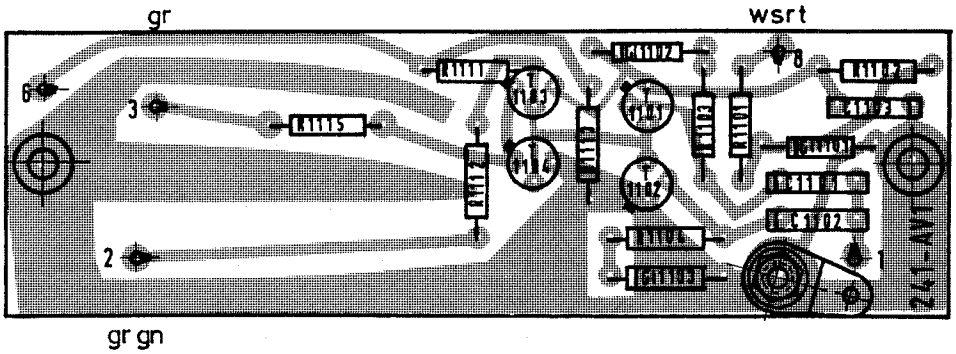
Modifications within the production run series:

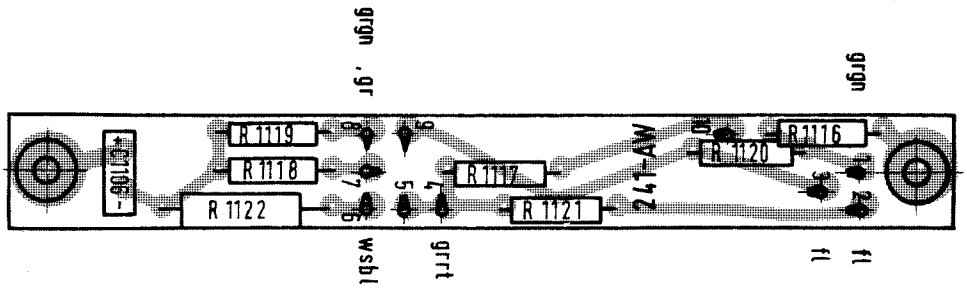
1) Series A to D: R 1018 inapplicable

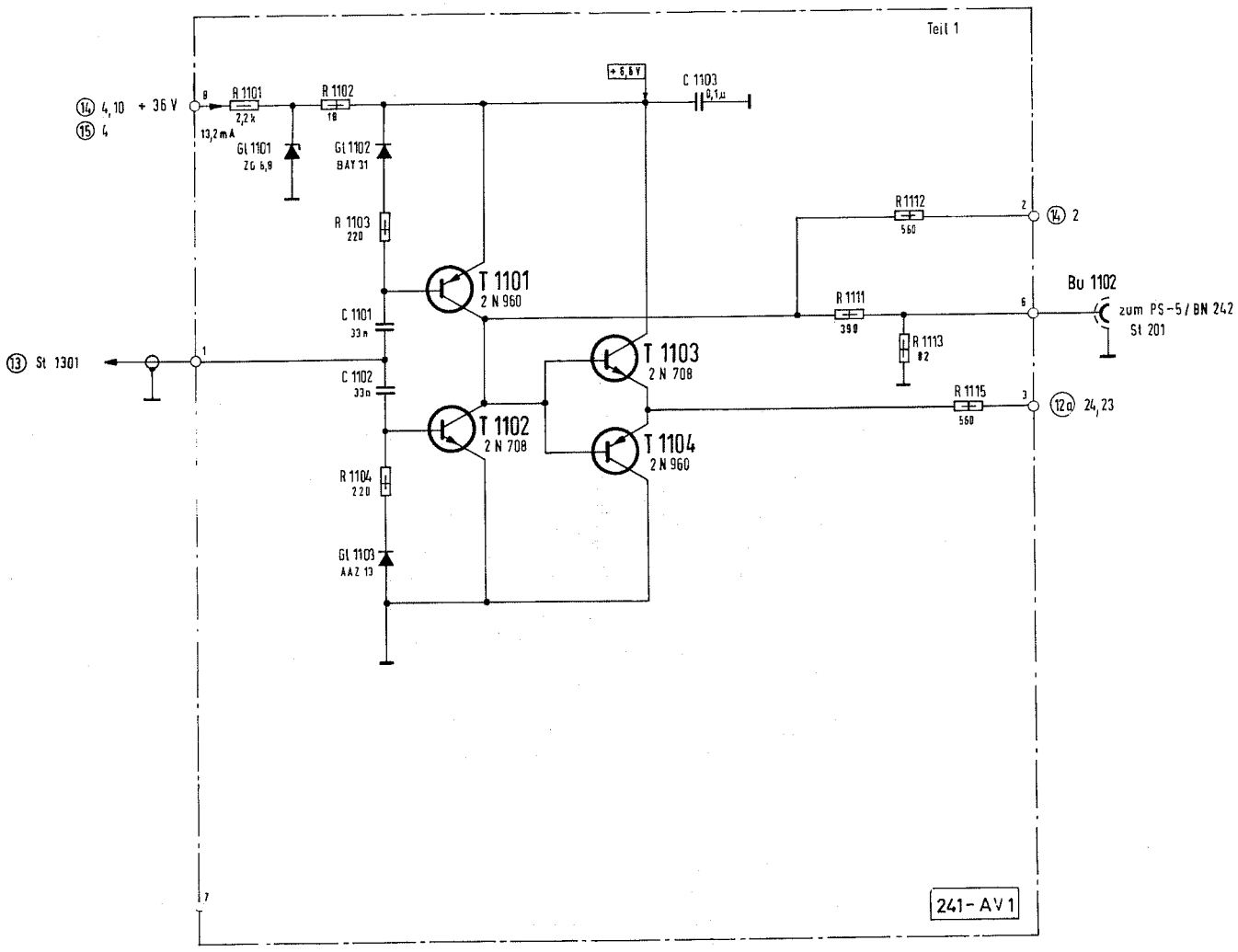
RWO-5/BN 241

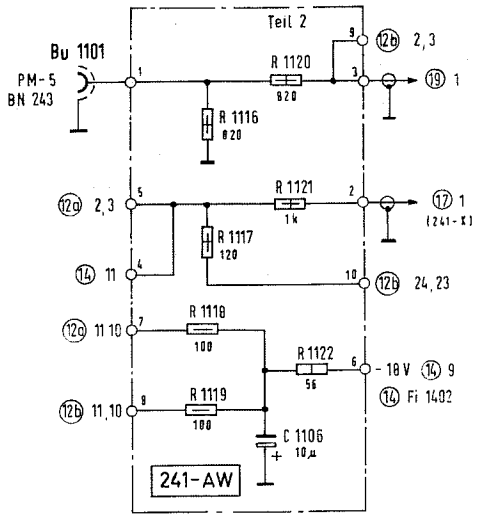
Zähldiskriminator II (10)

(Counting Discriminator II)


gr
wsrt
6
3
2
8
1
gr gn
24-AW-172


grgn, gr
grgn
R 1119
R 1118
R 1122
R 1117
R 1121
R 1116
R 1120
24-AW-172
wsbl
grrt
ti
ti

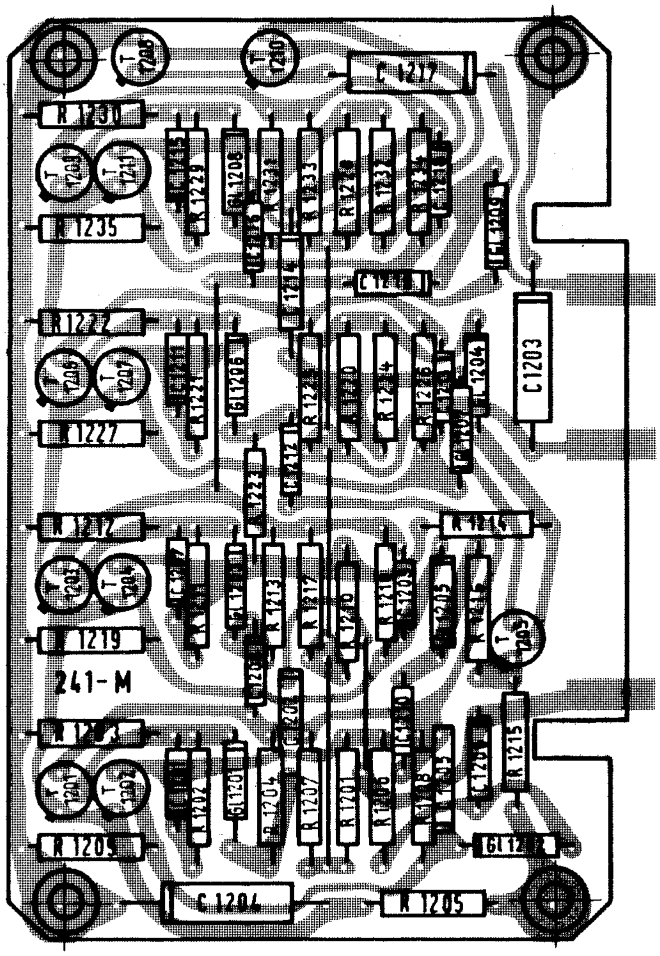


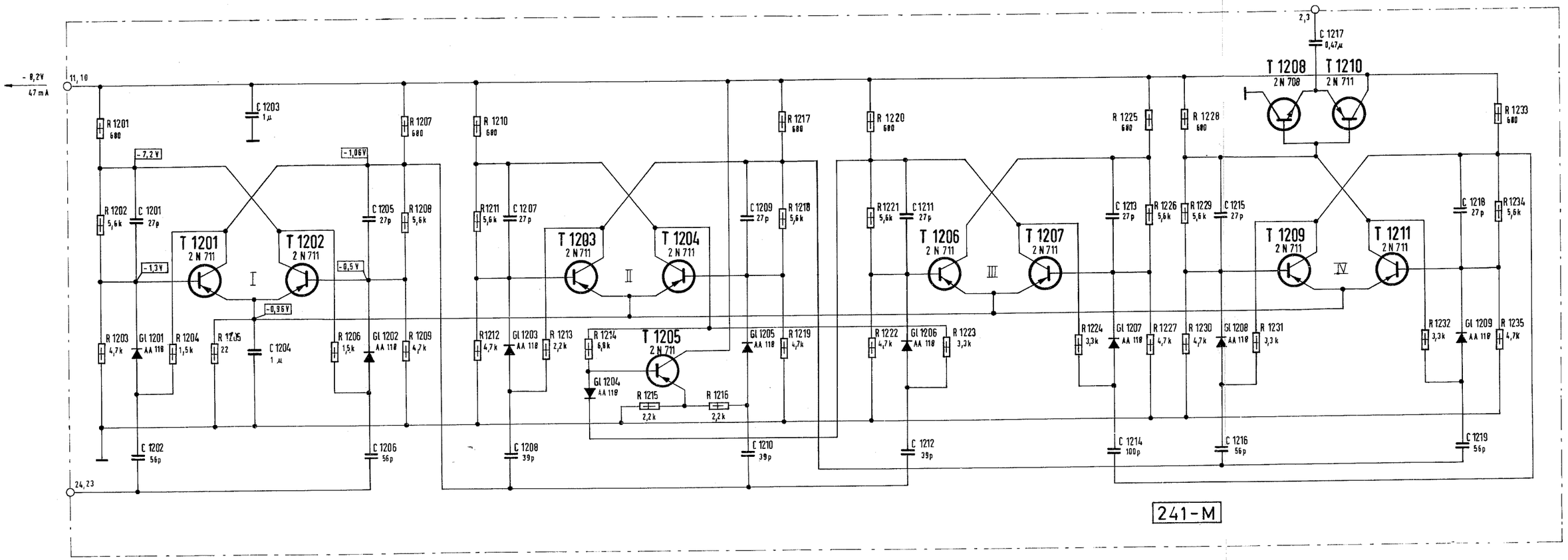


RWO-5/BN 241

Trennstufe z. Normalfrequenz (11)

(Standard Frequency Buffer-Stage)


C 1217
R 1230
R 1235
R 1222
R 1227
R 1212
R 1219
241-M
R 1205
C 1204
R 1205
C1203



connecting points

Flip - Flop	I				II				III				IV			
T	1201			1202	1203			1204	1206			1207	1209			1211
Gt	1201			1202	1203			1205	1206			1207	1208			1209
input pulse Eingangsimpulse 0	+	+	–	–	+	+	–	–	–	+	–	–	+	+	–	–
1	–	–	+	+	+	+	–	–	–	+	–	–	+	+	–	–
2	+	+	–	–	–	–	+	+	+	+	–	–	+	+	–	–
3	–	–	+	+	–	–	+	+	+	+	–	–	+	+	–	–
4	+	+	–	–	–	–	+	+	+	–	+	+	+	+	–	–
5	–	–	+	+	–	–	+	+	+	–	+	+	+	+	–	–
6	+	+	–	–	+	+	–	+	–	–	+	+	–	–	+	+
7	–	–	+	+	+	+	–	+	–	–	+	+	–	–	+	+
8	+	+	–	–	–	–	+	+	+	–	+	+	–	–	+	+
9	–	–	+	+	–	–	+	+	+	–	+	+	–	–	+	+
10	+	+	–	–	+	+	–	–	–	+	–	–	–	+	–	+

+ = Transistor, Diode stromführend — transistor or diode conducting

– = Transistor, Diode gesperrt — transistor or diode non-conducting

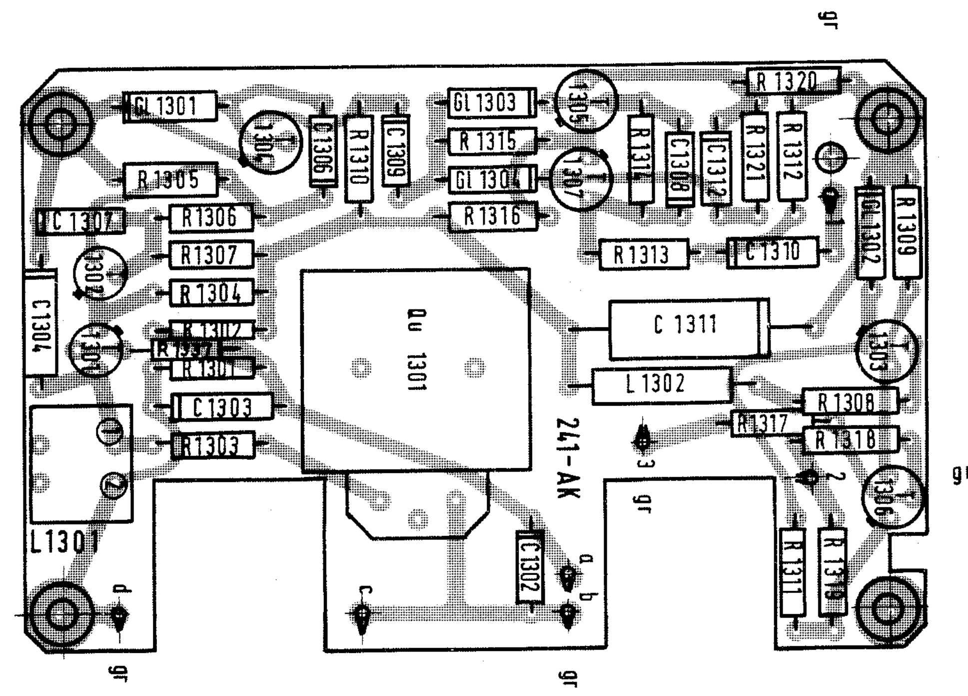
Anschlußpunkte		
Punkt	bei 12a nach	bei 12b nach
2, 3	⑪ 5 (AW)	⑪ 9 (AW)
11, 10	⑪ 7 (AW)	⑪ 8 (AW)
24, 23	⑪ 3 (AV)	⑪ 10 (AW)

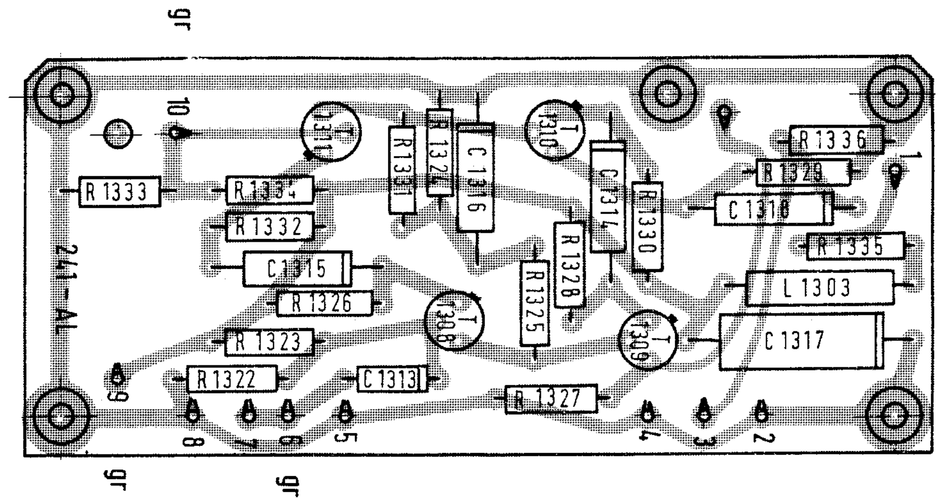
two for each instrument — Pro Gerät 2x

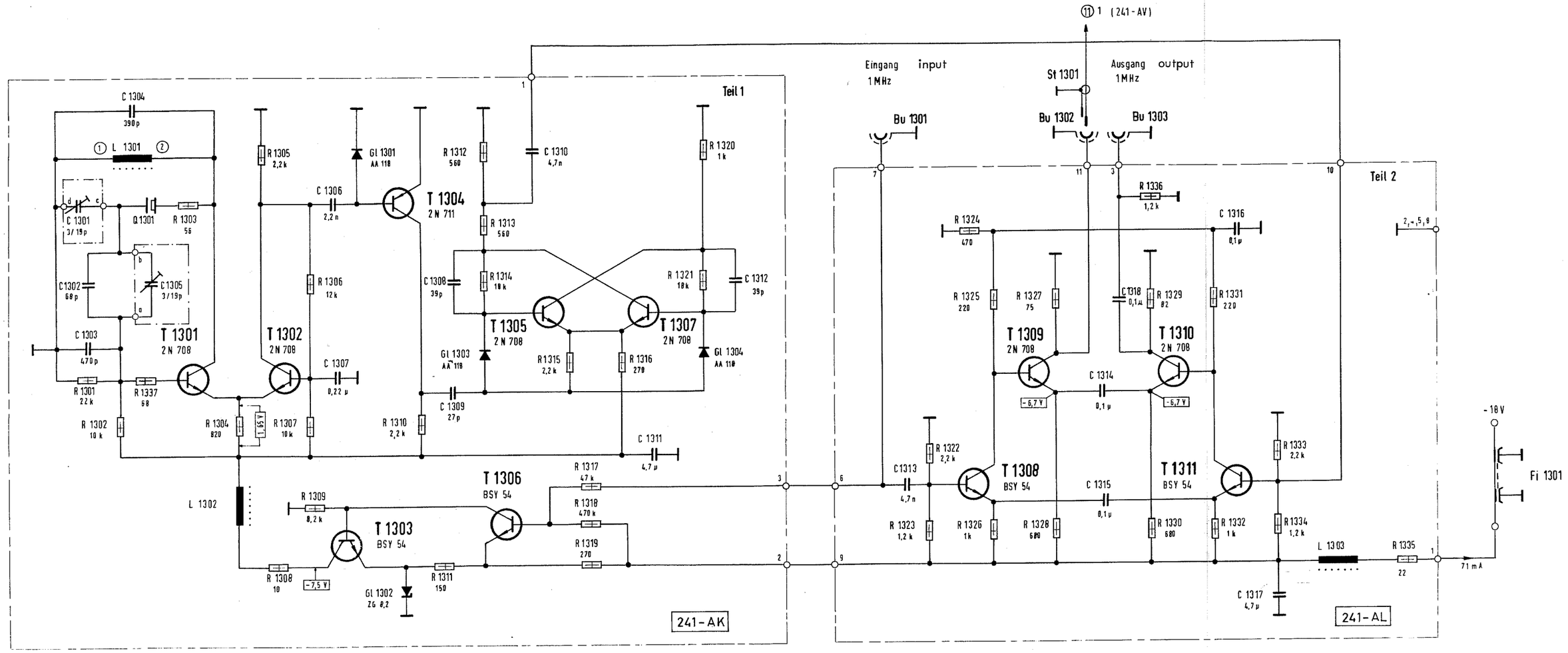
RWO-5/BN 241

Frequenzteiler 10:1 (12a) (12b)

(Frequency Divider)


241-AK
Qu 1301
L1301
L 1302
C 1311
C1302
C1303
C1304
C1306
C1307
C1308
C1309
C1310
C1312
GL 1301
GL 1302
GL 1303
GL 1304
R1303
R1304
R1305
R1306
R1307
R1308
R1309
R1310
R1311
R1312
R1313
R1314
R1315
R1316
R1317
R1318
R1319
R1320
R1321
gr

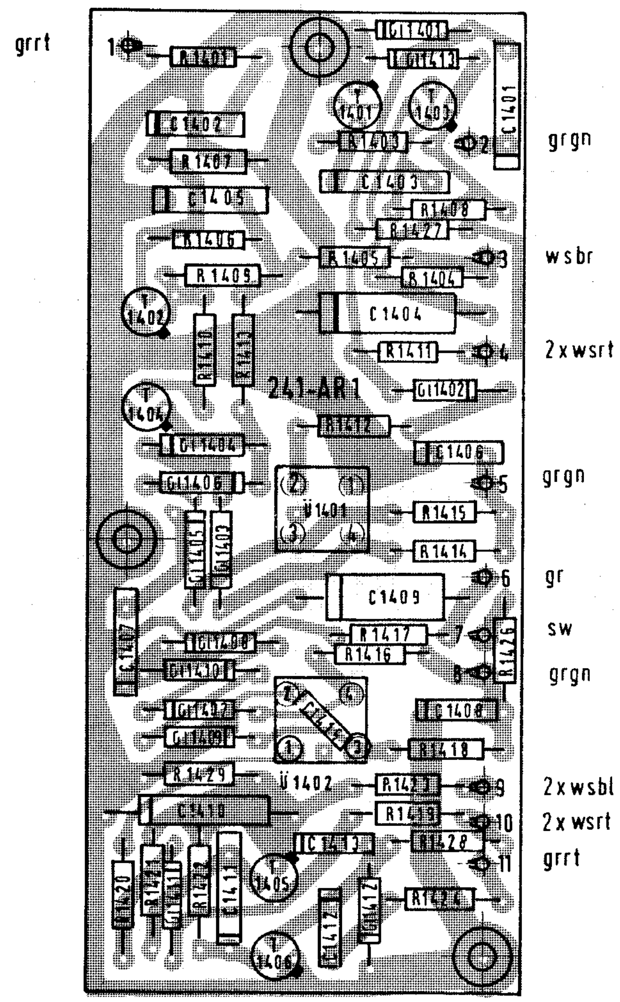

241-AL
L 1303
C 1313
C 1314
C 1315
C 1316
C 1317
C 1318
R 1322
R 1323
R 1325
R 1326
R 1327
R 1328
R 1329
R 1330
R 1331
R 1332
R 1333
R 1335
R 1336
gr



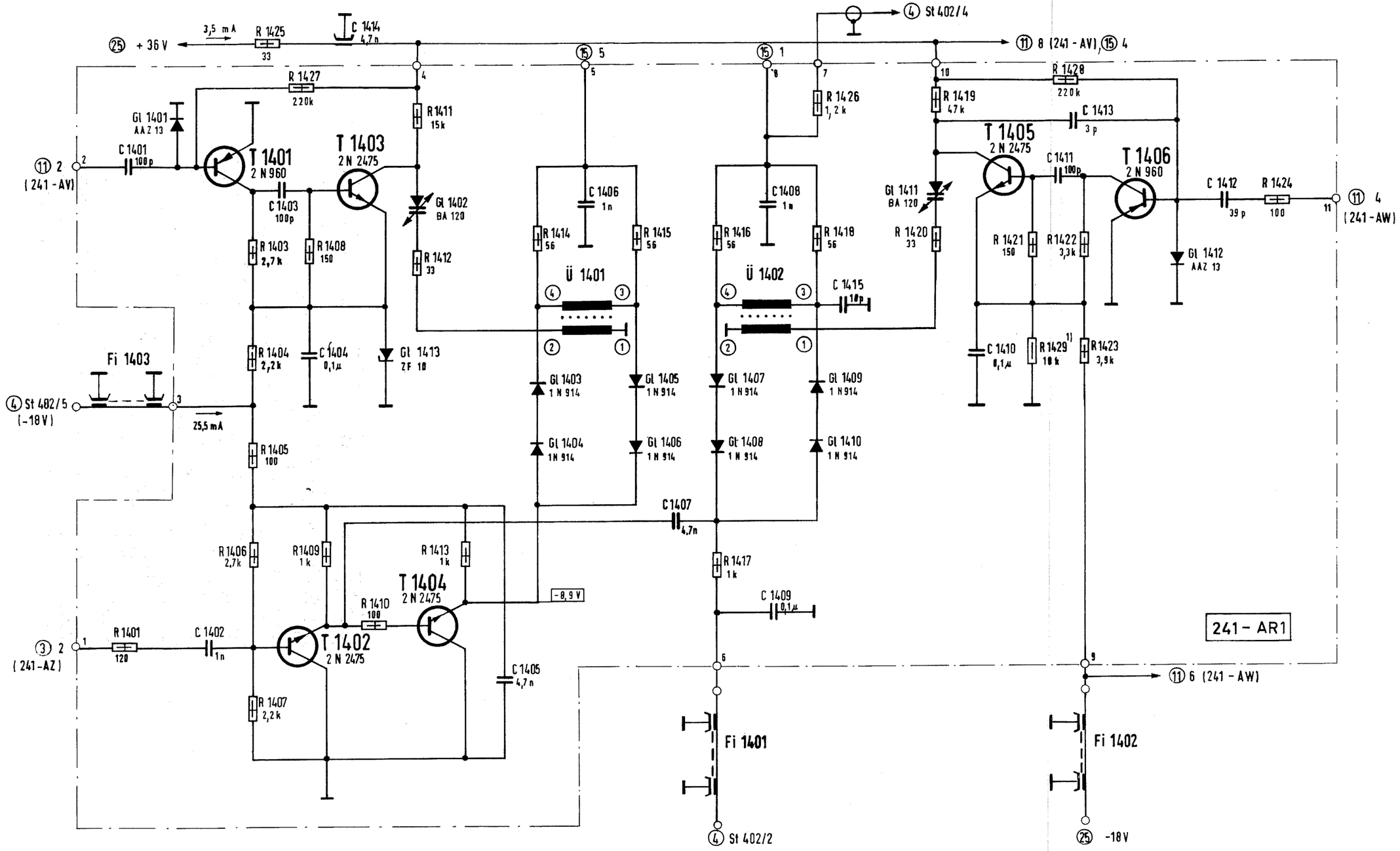
RWO-5/BN 241

Normalfrequenz-Oszillator Teil (13)

(Standard Frequency Oscillator)



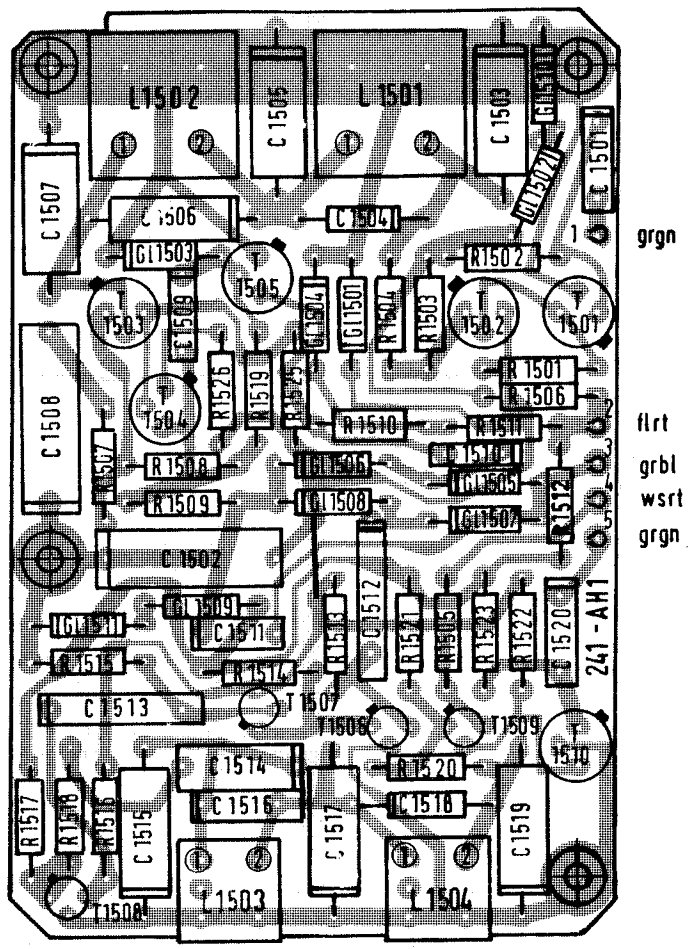
grrt
1
R1401
Gl1401
Gl1413
T 1401
T 1403
C1401
C1402
R1407
R1403
2
grgn
C1405
C1403
R1408
R1427
R1406
R1405
3
wsbr
R1409
R1404
T 1402
C1404
R1410
R1413
R1411
4
2xwsrt
241-AR1
Gl1402
T 1404
R1412
Gl1404
C1406
Gl1406
Ü1401
5
grgn
R1415
Gl1405
Gl1403
R1414
C1409
6
gr
C1407
R1417
7
sw
Gl1408
R1416
R1426
Gl1410
8
grgn
Gl1407
C1408
Gl1409
R1418
R1429
Ü1402
R1423
9
2xwsbl
C1410
R1419
10
2xwsrt
C1413
R1428
11
grrt
R1420
R1421
Gl1411
R1422
C1411
T 1405
R1424
C1412
Gl1412
T 1406



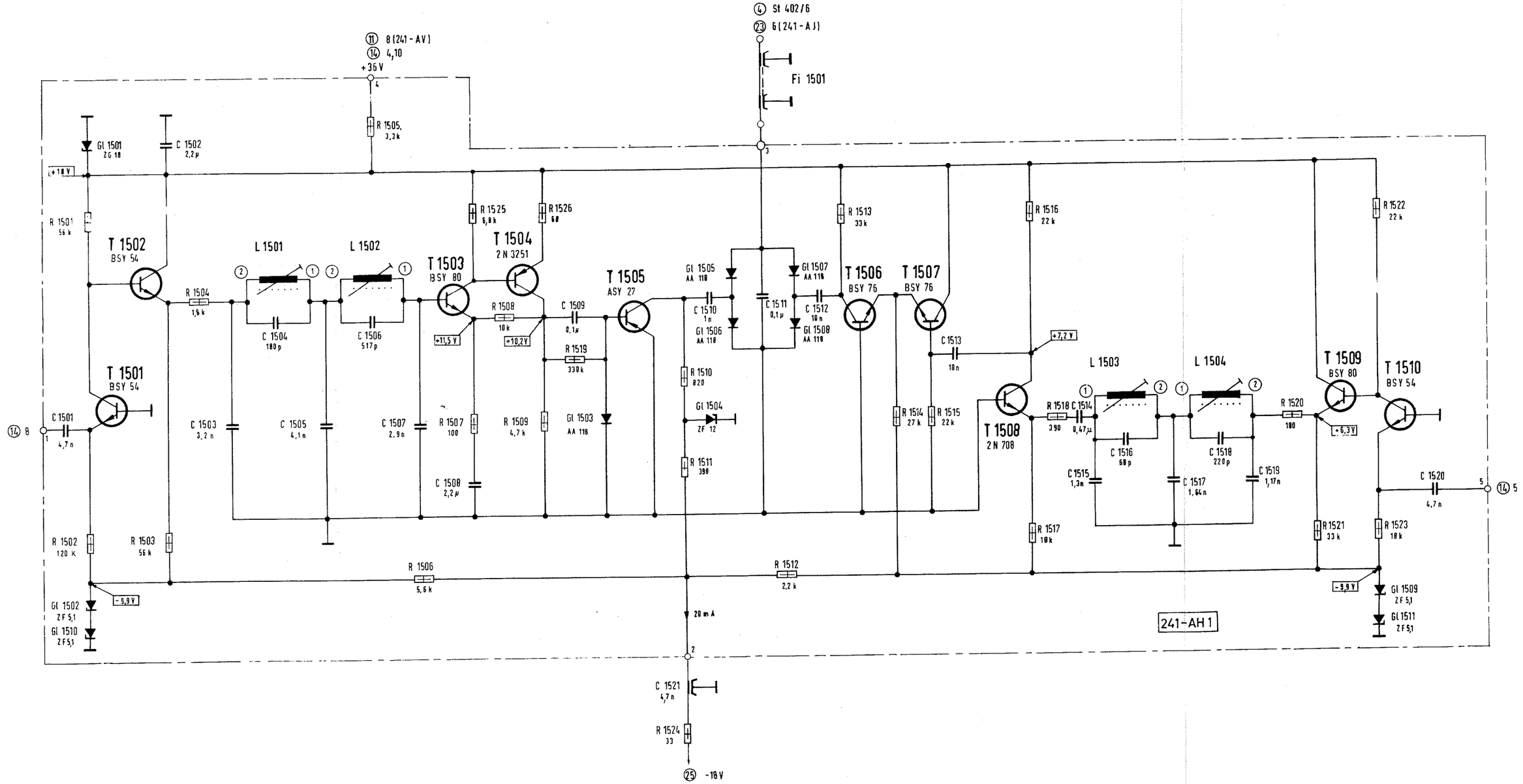
Stromangaben gelten für fehlende Aussteuerung der Impulsformerstufen (Punkt 2 und 11)

Current ratings valid for no-signal condition of pulse shaper stages (point 2 and 11)

RWO-5/BN 241
Phasenmesser (14)
(Phase Meter)



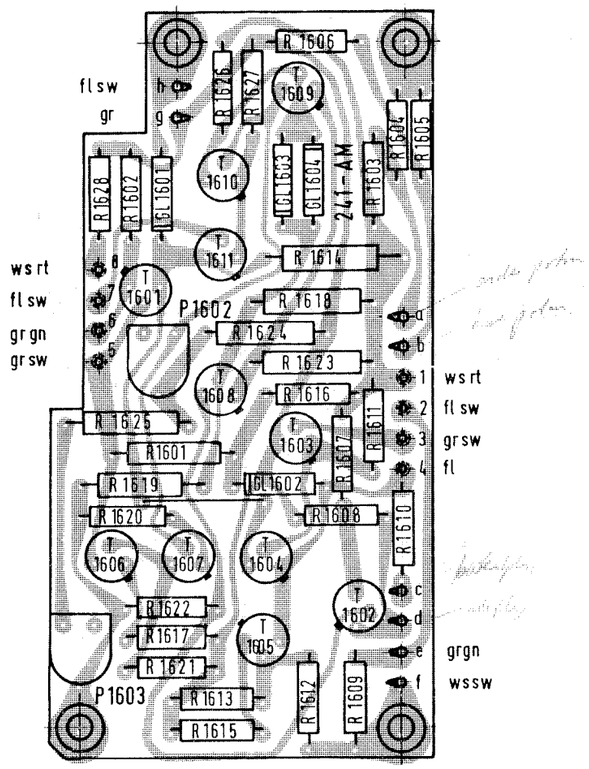
L1502
C1505
L1501
C1503
C1501
C1507
C1504
R1502
T1505
T1503
T1502
T1501
R1503
C1508
R1501
R1506
T1504
R1526
R1519
R1510
R1511
R1508
R1509
C1502
R1513
C1512
R1521
R1523
R1522
C1520
241-AH1
C1513
R1514
T1507
T1506
T1509
T1510
C1514
R1520
C1516
C1518
R1517
C1515
C1517
C1519
T1508
L1503
L1504
1
2
3
4
5
grgn
flrt
grbl
wsrt
grgn

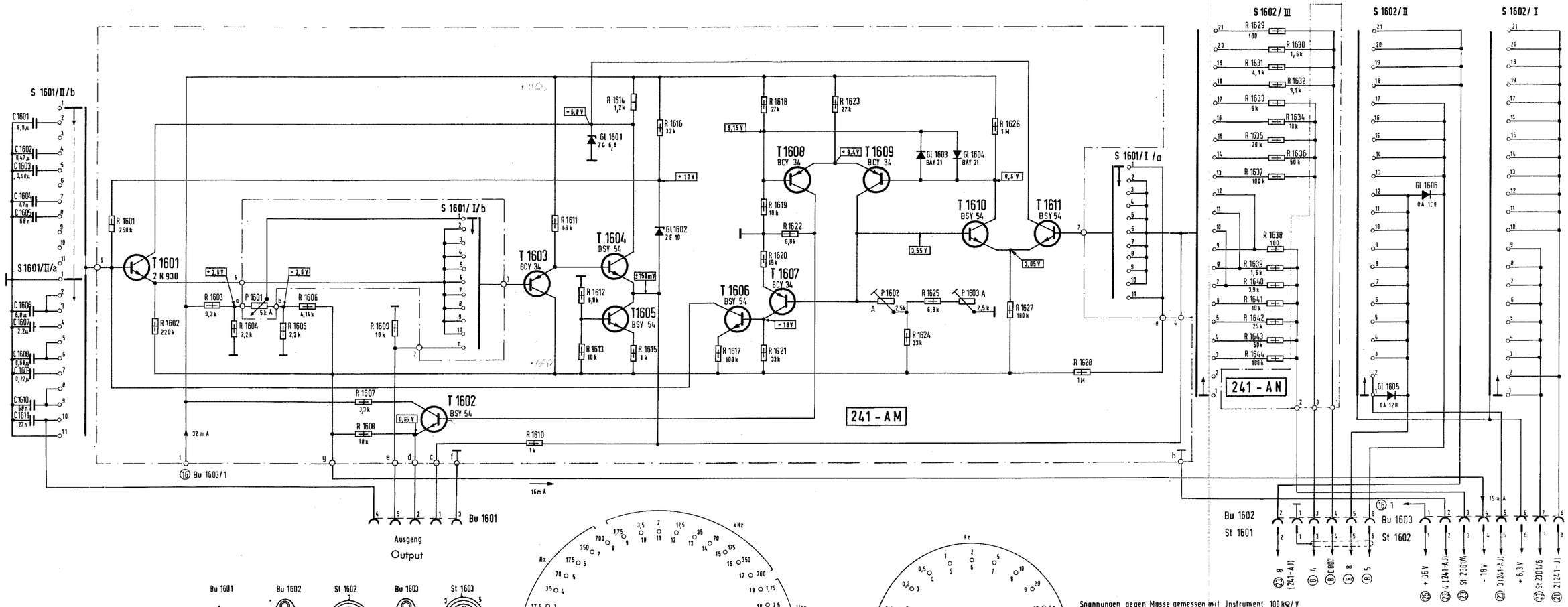


RWO-5/BN 241

Fanganzeige-Verstärker (15)

(Lock-In Indication Amplifier)


fl sw
gr
ws rt
fl sw
gr gn
gr sw
P1602
P1603
R 1606
R 1626
R 1627
R 1628
R 1602
GL1601
GL1603
GL1604
R 1603
R 1604
R 1605
R 1614
R 1618
R 1624
R 1623
R 1616
R 1625
R 1601
R 1619
GL1602
R 1620
R 1608
R 1610
R 1622
R 1617
R 1621
R 1613
R 1615
R 1612
R 1609
R 1611
R 1607
T 1601
T 1602
T 1603
T 1604
T 1605
T 1606
T 1607
T 1608
T 1609
T 1610
T 1611
241-AM
ws rt
fl sw
gr sw
fl
grgn
wssw



Spannungen gegen Masse gemessen mit Instrument 100 kΩ/ V
(S 1601 in Stellung 11, ohne Eingangsspannung)

all voltage ratings measured with respect to chassis with 100 $\frac{k\Omega}{V}$ meter

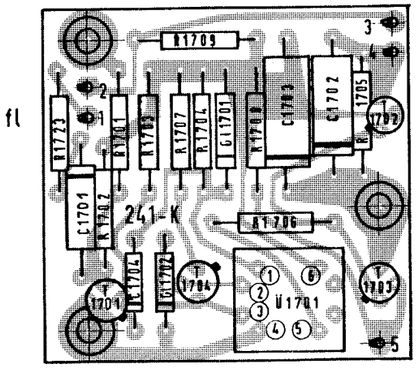
(S 1601 in position 11 in absence of input voltage)

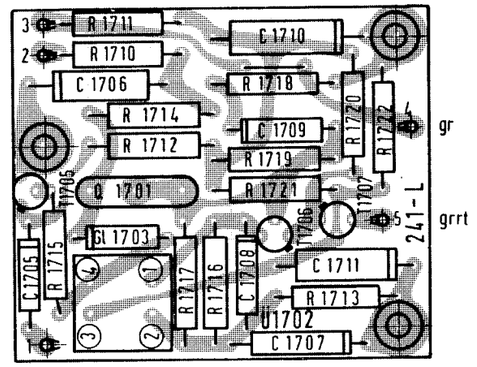
RWO-5/BN 241

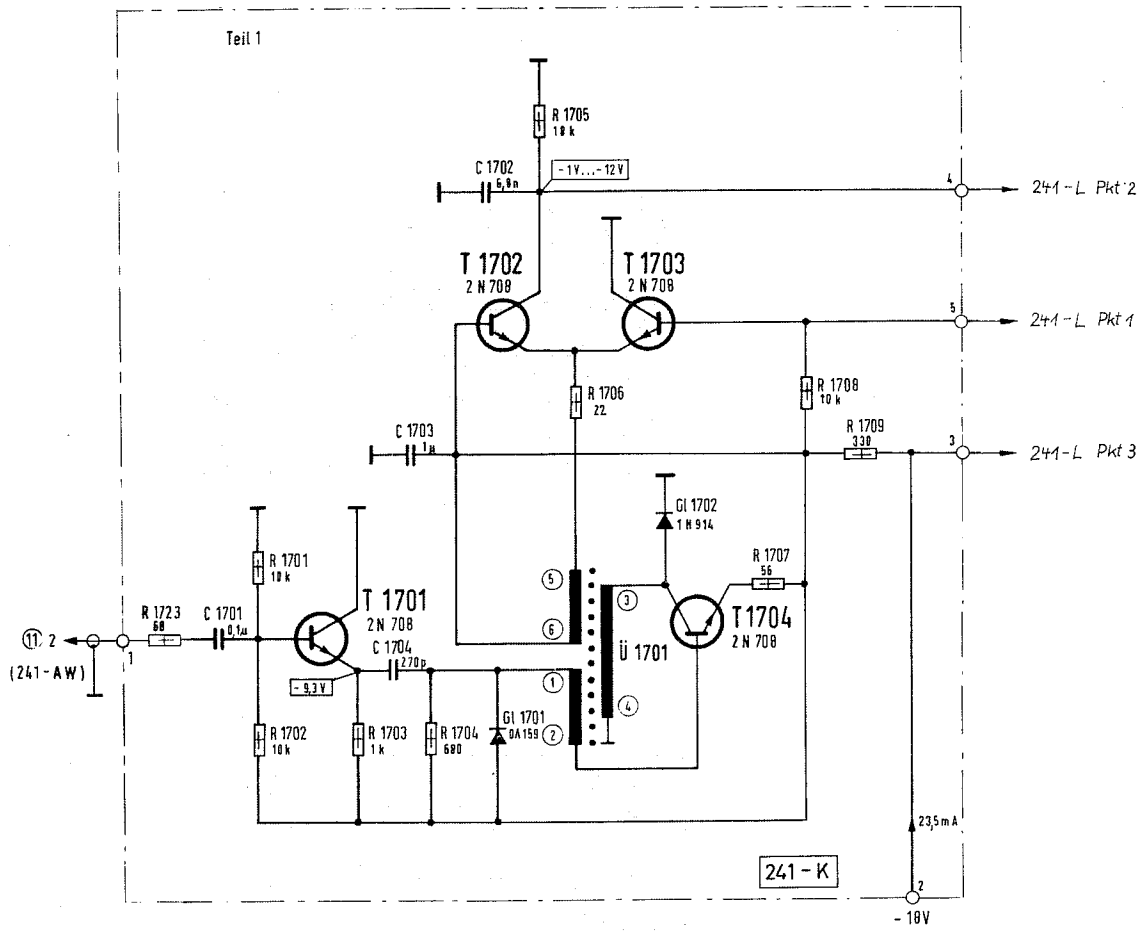
Sägezahngenerator (16)

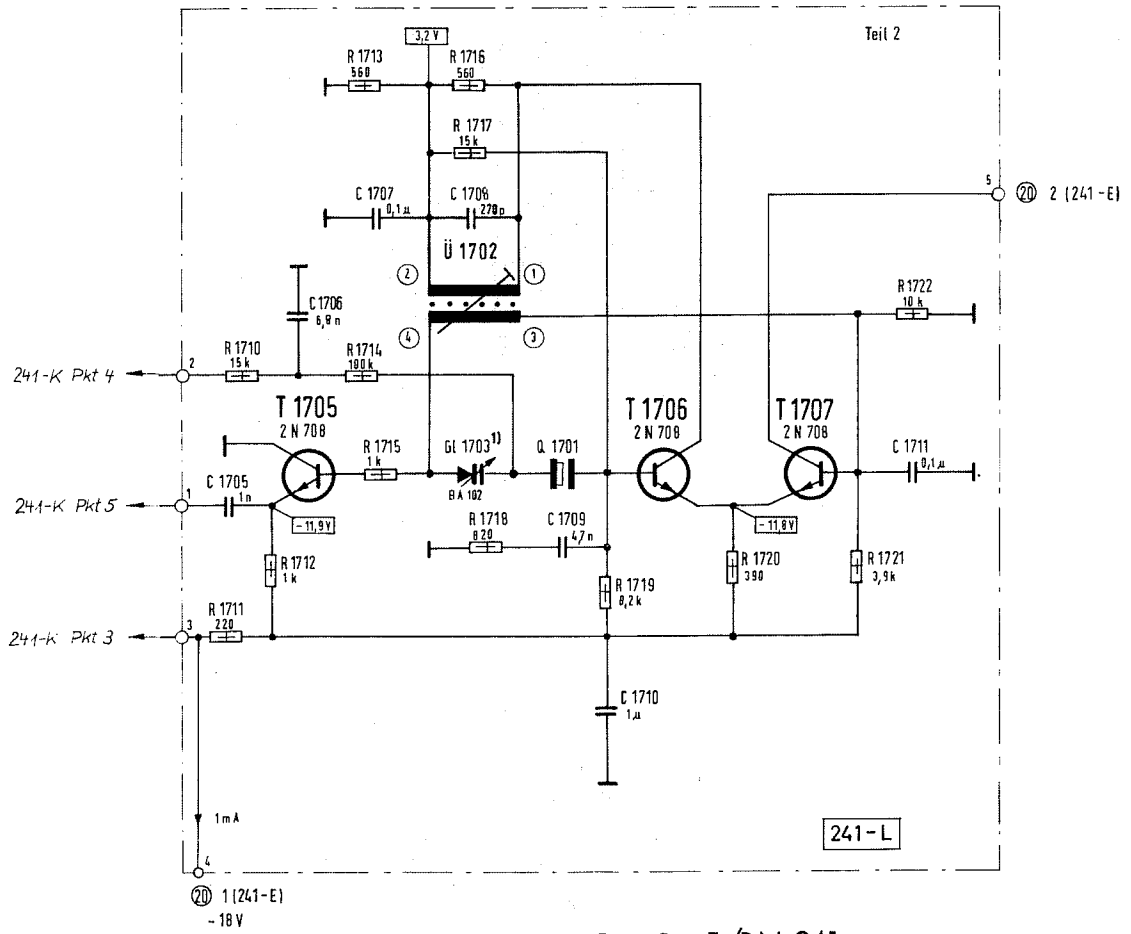
(Sawtooth Generator)

fl


R1709
3
2
R1723
C1701
R1702
R1701
R1703
R1707
R1704
G1701
R1708
C1703
C1702
1705
1702
241-K
R1706
1701
G1702
1704
U1701
1
2
3
4
5
6
1703
5


3
2
R 1711
R 1710
C 1706
R 1714
R 1712
C 1705
C 1701
G 1703
R 1715
C1705
R 1717
R 1716
C 1708
C 1710
R 1718
C 1709
R 1719
R 1721
C1706
C 1711
R 1713
U1702
C 1707
R 1720
R 1722
1707
5
gr
grrt
241-L





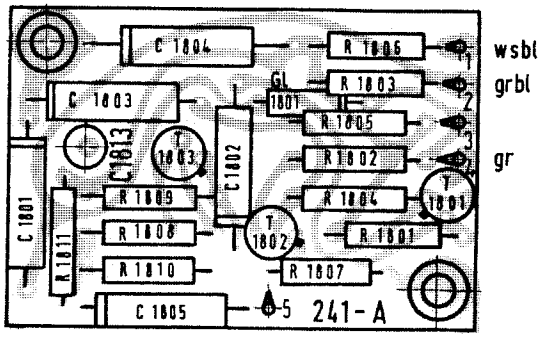
Serienänderungen : (Modifications within the production run series:)

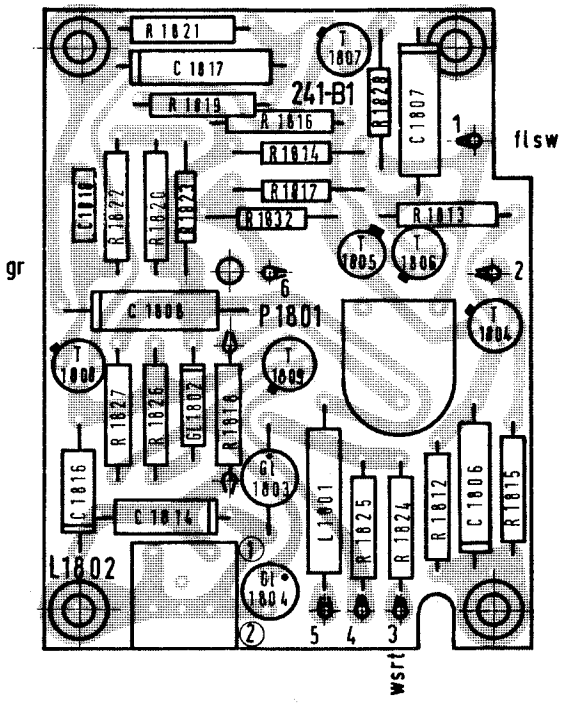
1) Serie A . . E: Gl 1703 / BA 109

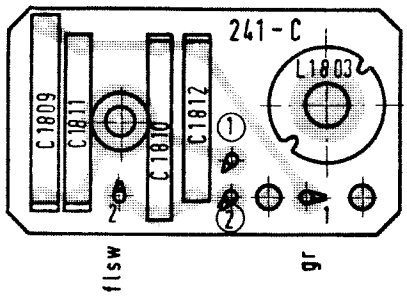
RWO-5/BN 241

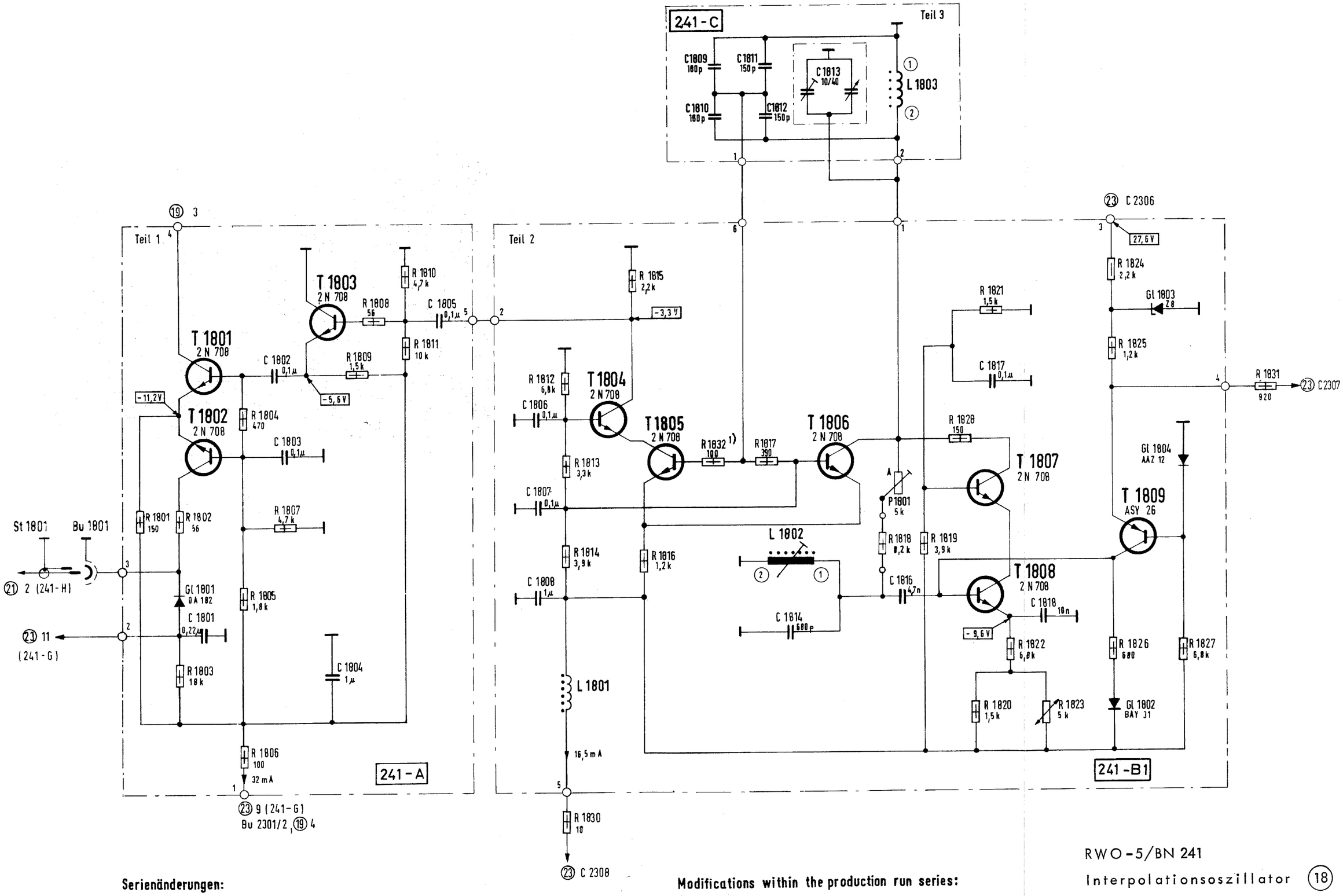
2,7-MHz-Quarz-Oszillator (17)

(2,7 MHz Crystal Oscillator)


C 1804
R 1806
C 1803
GL 1801
R 1803
R 1805
R 1802
R 1804
R 1801
R 1809
R 1808
R 1810
R 1807
C 1805
C 1801
R 1811
C 1813
C 1802
T 1803
T 1801
T 1802
wsbl
grbl
gr
241-A


R 1821
C 1817
R 1819
R 1816
R 1814
R 1817
R 1832
R 1813
R 1822
C 1807
T 1807
241-B1
C 1818
R 1827
R 1820
R 1823
T 1805
T 1806
C 1808
P 1801
T 1804
T 1808
T 1809
R 1826
GL 1802
R 1818
C 1816
C 1814
GL 1803
L 1801
R 1825
R 1824
R 1812
C 1806
R 1815
L 1802
DI 1804
flsw
gr
wsrt

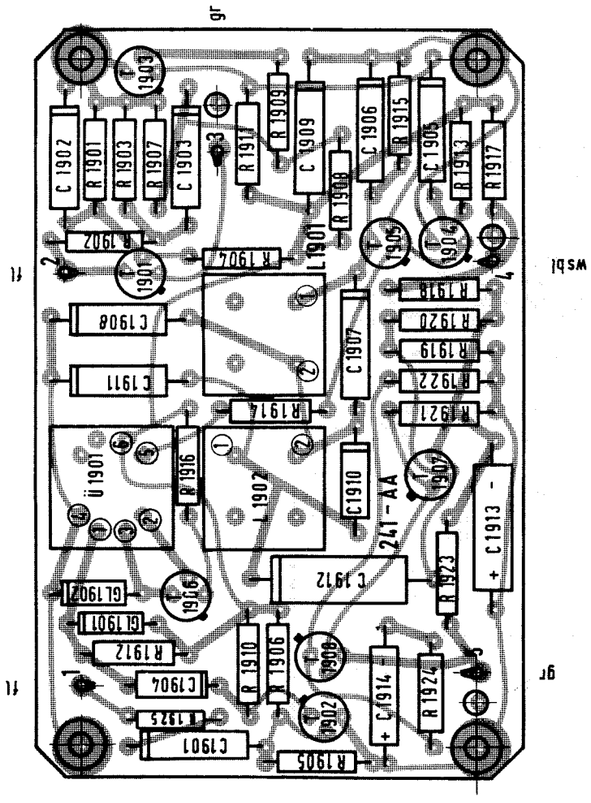

241-C
C 1809
C 1811
C 1810
C 1812
L 1803
flsw
gr

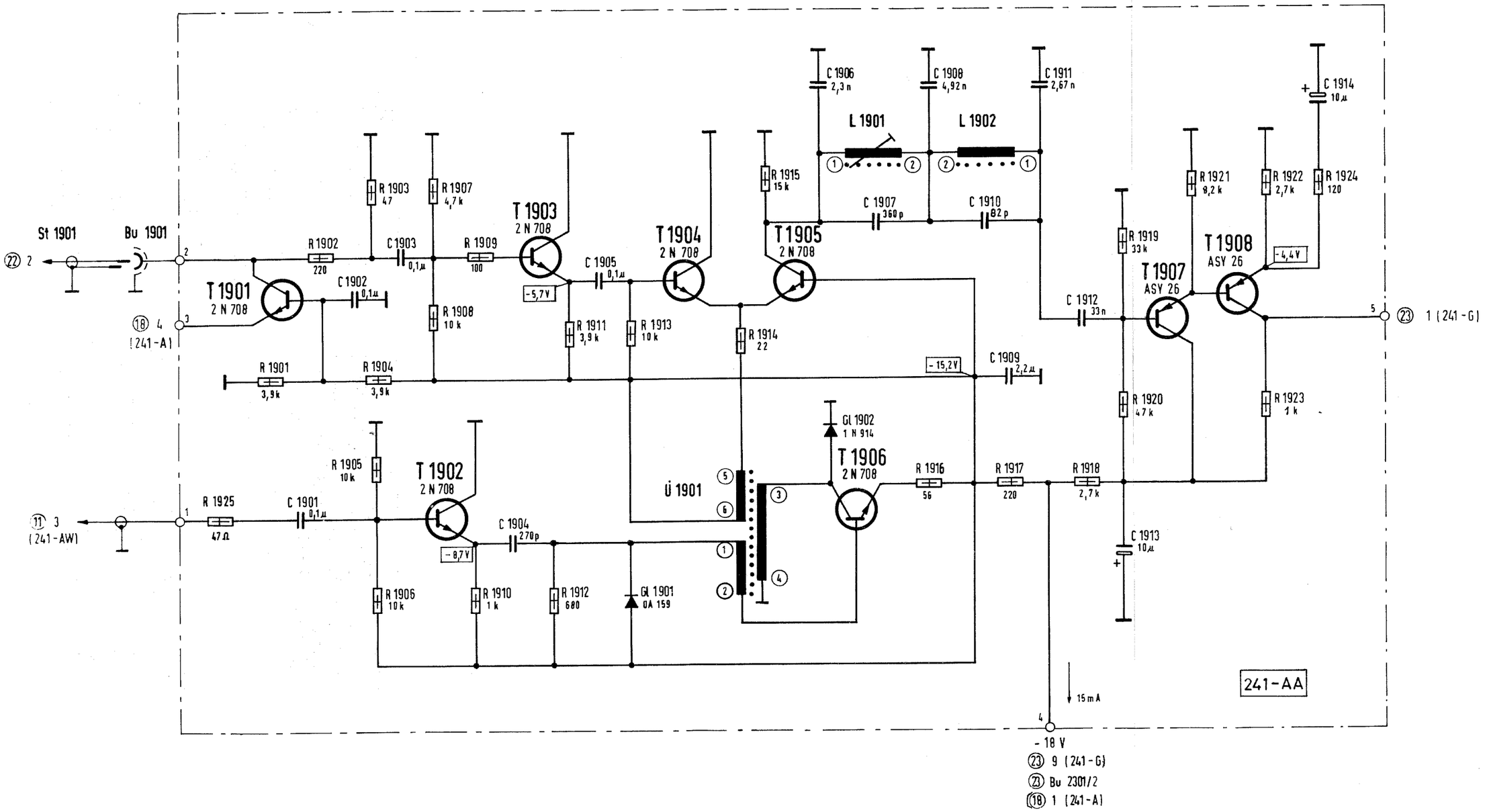


Serienänderungen:
1) Serie A bis D: R 1832 entfällt

Modifications within the production run series:
1) Series A to D: R1832 inapplicable

RWO-5/BN 241
Interpolationsoszillator (18)
(Interpolation Oscillator)

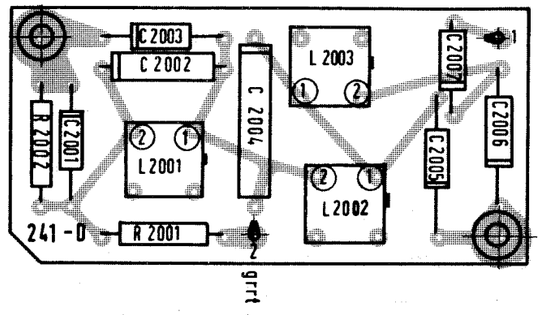

gr
rt
ws bl
rt
gr
C 1902
R 1901
R 1903
R 1907
C 1903
R 1917
R 1909
C 1909
R 1908
C 1906
R 1915
C 1905
R 1913
R 1917
R 1902
R 1904
L 1901
1903
1901
1905
1904
R 1918
R 1920
R 1919
R 1922
R 1921
C 1908
C 1911
R 1914
C 1907
Ü 1907
R 1916
L 1902
C1910
1907
241 - AA
C 1913 -
C 1912
R 1923
1906
GL 1902
GL 1901
R 1912
C 1904
R 1925
C 1901
R 1910
R 1906
1908
1902
C 1914
R 1924
R 1905
3
4
1
2

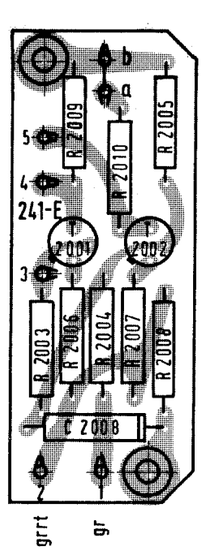


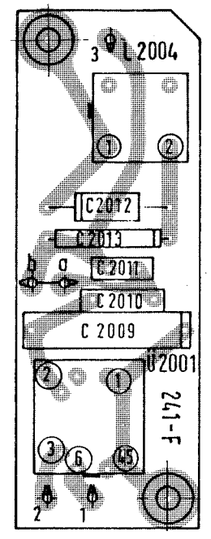
RWO-5/BN 241

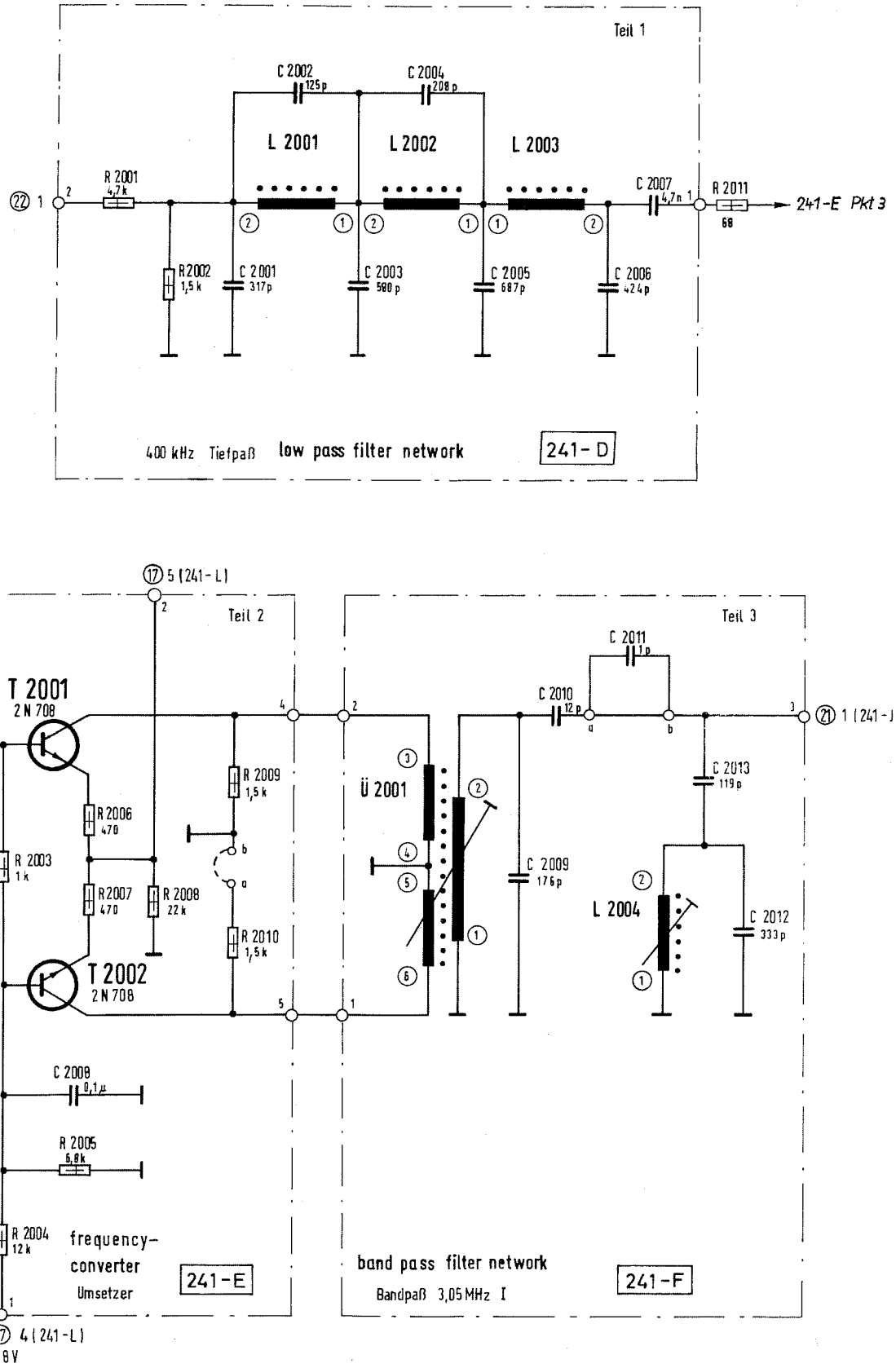
Abstimmanzeige (19)

(Tuning Indicator Network)


C 2003
C 2002
C 2004
L 2003
C2007
C2006
C2005
R 2002
C2001
L 2001
L 2002
241 - D
R 2001
2
grrt


b
a
5
R 2009
R 2005
R 2010
4
241-E
2001
2002
3
R 2003
R 2006
R 2004
R 2007
R 2008
C 2008
1
2
grrt
gr

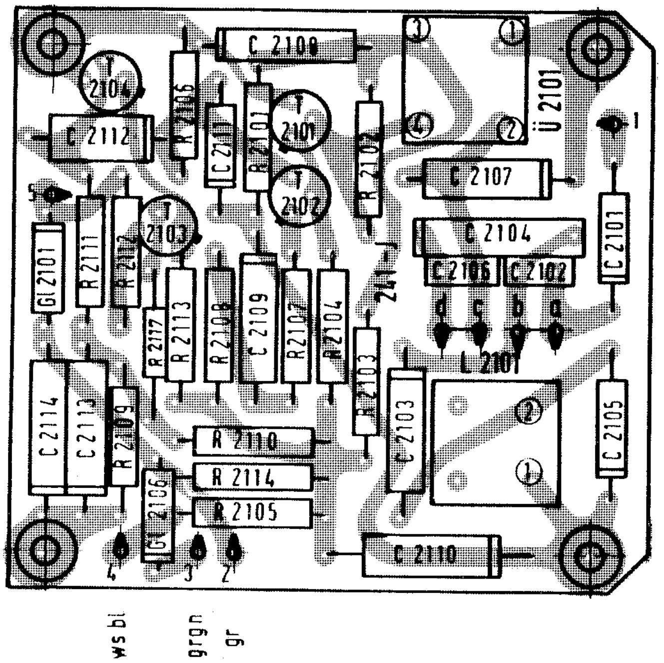

3
L 2004
1
2
C2012
C 2013
b
a
C 2011
C 2010
C 2009
U2001
2
1
3
6
45
241-F
2
1

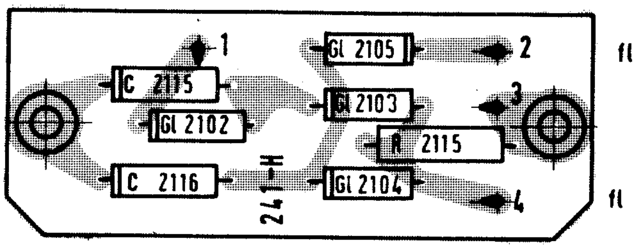


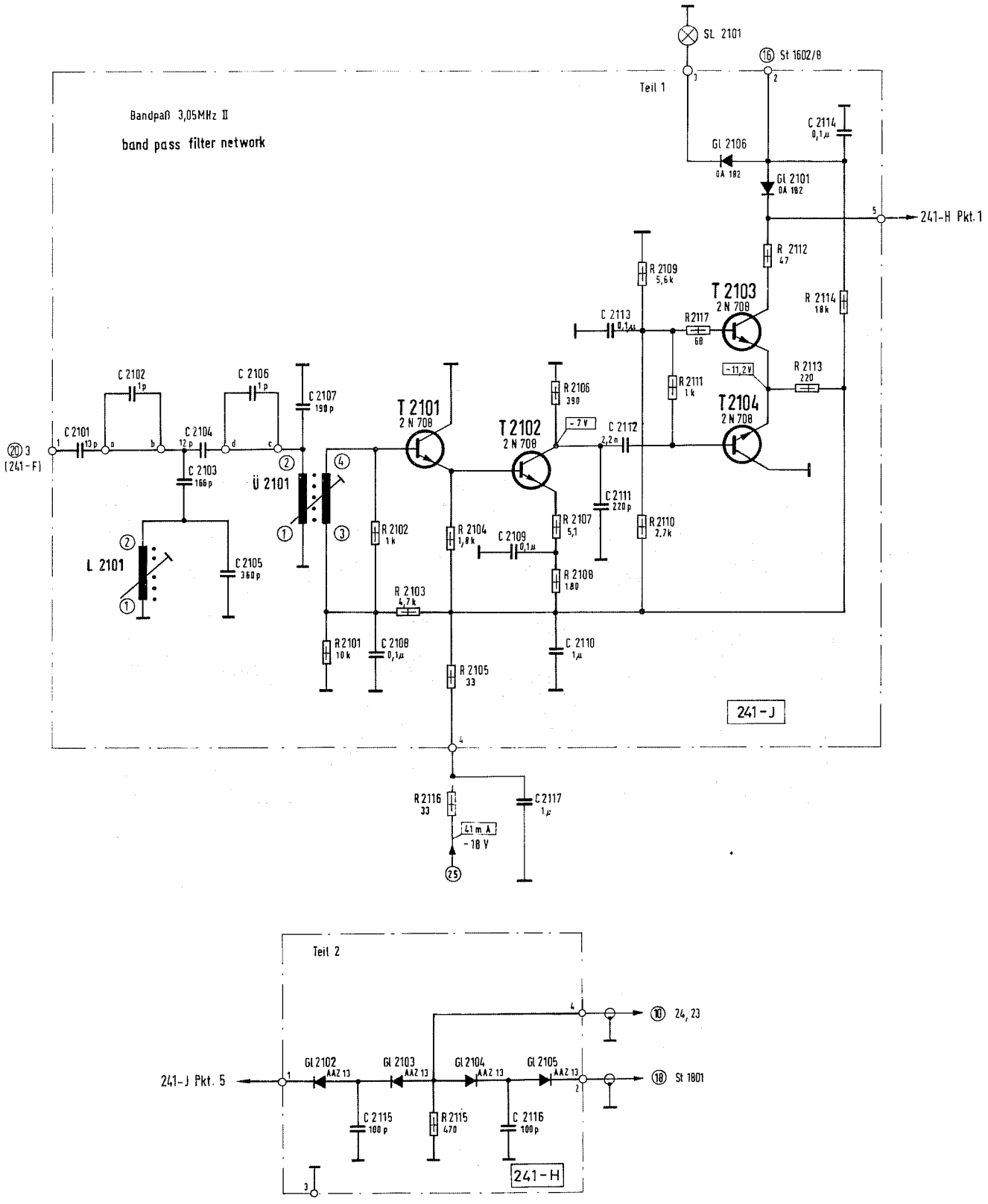
RWO-5/BN 241

Umsetzer (20)

(Frequency Converter)


C 2108
T 2104
R 2106
C 2112
C 2111
R 2101
T 2101
T 2102
R 2102
Ü 2101
C 2107
T 2103
R 2111
R 2112
Gl 2101
C 2104
C 2106
C 2102
C 2101
R 2117
R 2113
R 2108
C 2109
R 2107
R 2104
R 2103
241-J
L 2101
C 2114
C 2113
R 2109
R 2110
R 2114
R 2105
Gl 2106
C 2103
C 2105
C 2110
ws bl
grgn
gr

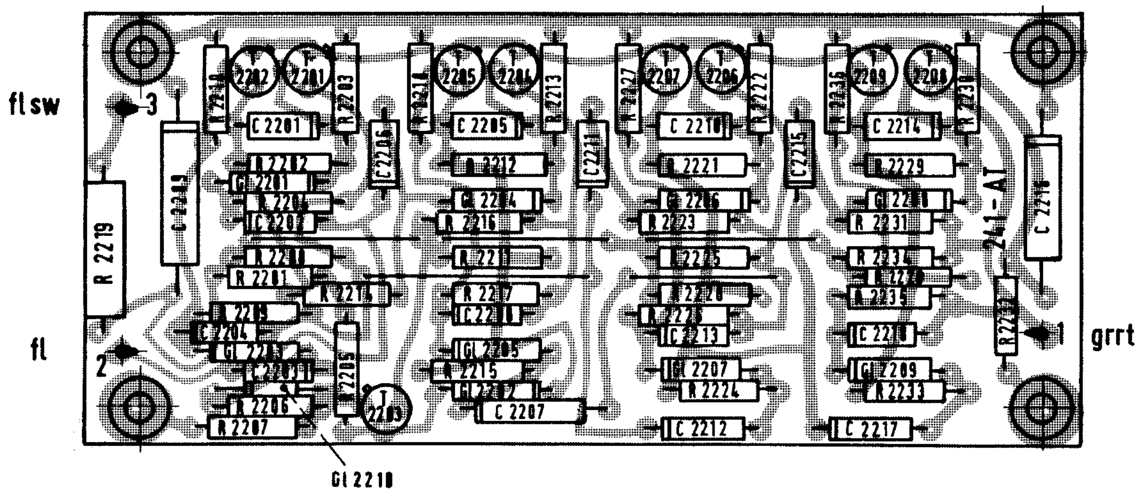

Gl 2105
C 2115
Gl 2102
Gl 2103
R 2115
C 2116
Gl 2104
241-H
fl
fl



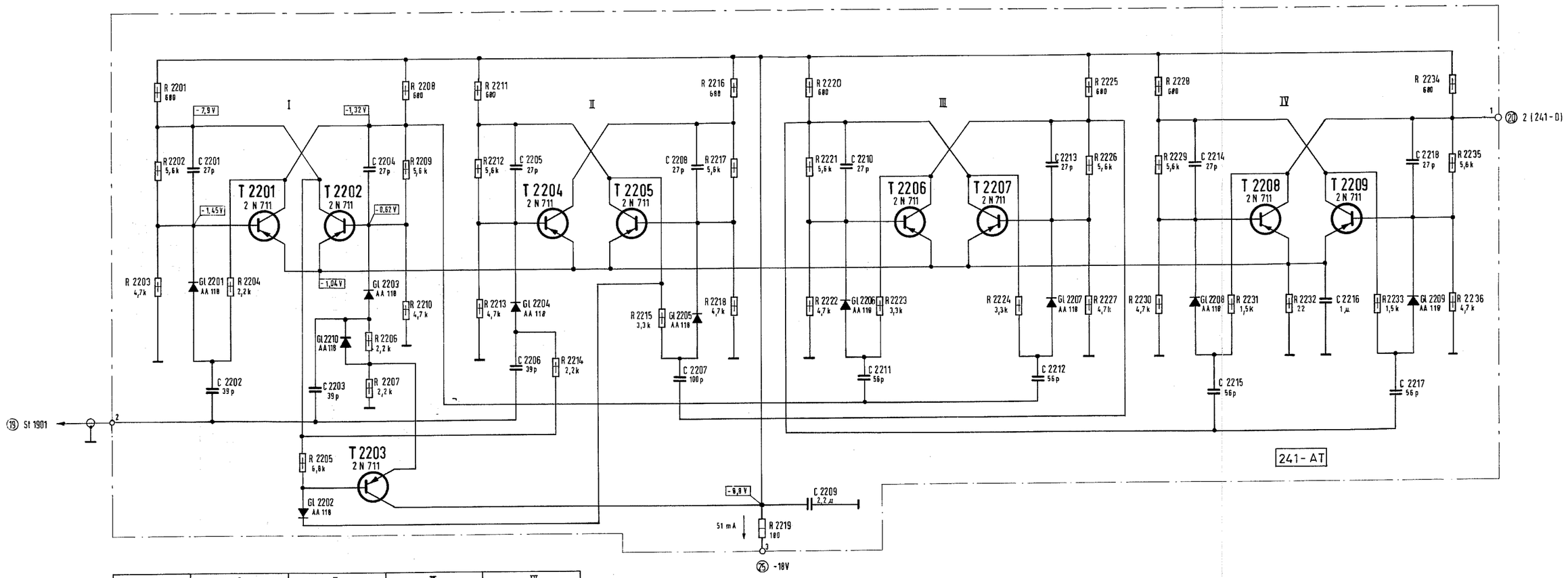
RWO-5/BN 241

Trenn- und Schaltstufe (21)

(Buffer and Switching Stage)



fl sw
3
fl
2
1
grrt
Gl 2210
241-AT



Flip-Flop	I				II				III				IV			
T		2201	2202			2204	2205			2206	2207			2208	2209	
Gl	2201			2203	2204			2205	2206			2207	2208			2209
0	+	+	–	–	–	+	–	–	+	+	–	–	+	+	–	–
1	–	–	+	–	+	+	–	–	+	+	–	–	+	+	–	–
2	–	–	+	+	+	–	+	+	+	+	–	–	+	+	–	–
3	+	+	–	–	–	–	+	+	–	–	+	+	–	–	+	+
4	–	–	+	+	+	–	+	+	–	–	+	+	–	–	+	+
5	+	+	–	–	–	+	–	–	+	+	–	–	–	–	+	+
6	–	–	+	–	+	+	–	–	+	+	–	–	–	–	+	+
7	–	–	+	+	+	–	+	+	+	+	–	–	–	–	+	+
8	+	+	–	–	–	–	+	+	–	–	+	+	+	+	–	–
9	–	–	+	+	+	–	+	+	–	–	+	+	+	+	–	–
10	+	+	–	–	–	+	–	–	+	+	–	–	+	+	–	–

Eingangsimpulse / input pulse

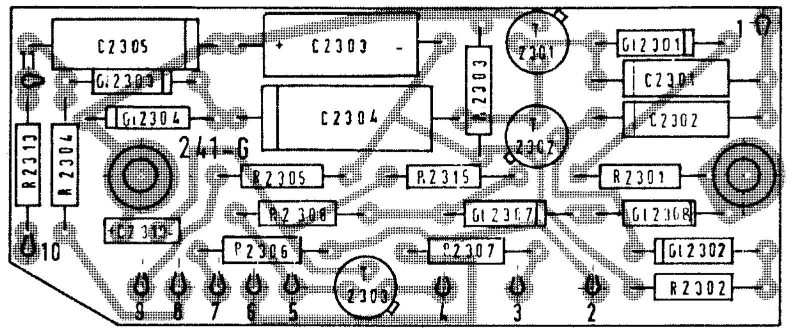
\+ = Transistor Diode stromführend transistor or diode conducting

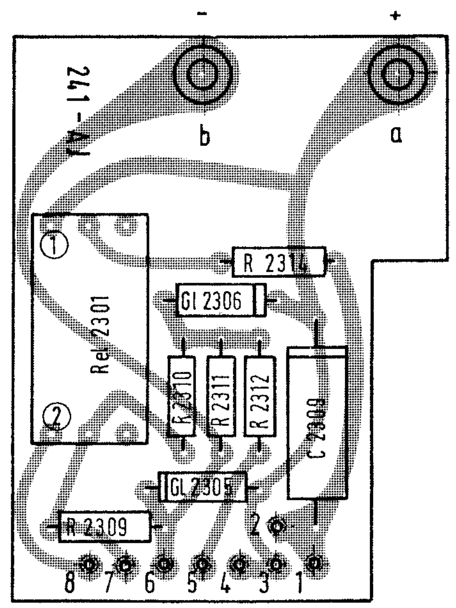
– = Transistor, Diode gesperrt transistor or diode non conducting

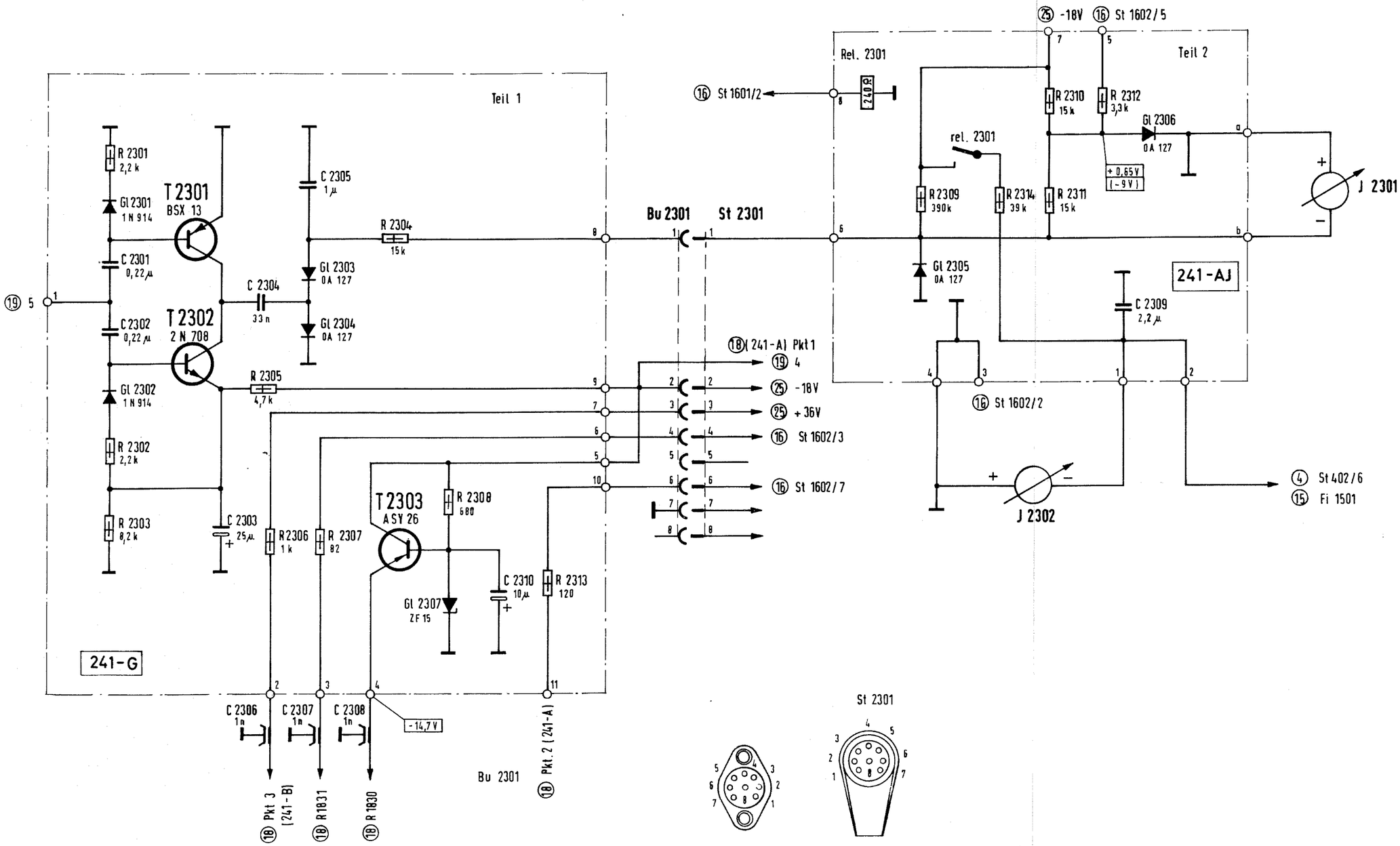
RWO-5/BN 241

Teiler 10:1 (22)

(Frequency Divider)


C2305
Gl2303
Gl2304
R2313
R2304
241-G
R2305
R2308
R2306
C2303
C2304
R2303
T2301
T2302
T2303
R2315
Gl2307
C2307
Gl2301
C2301
C2302
R2301
Gl2308
Gl2302
R2302

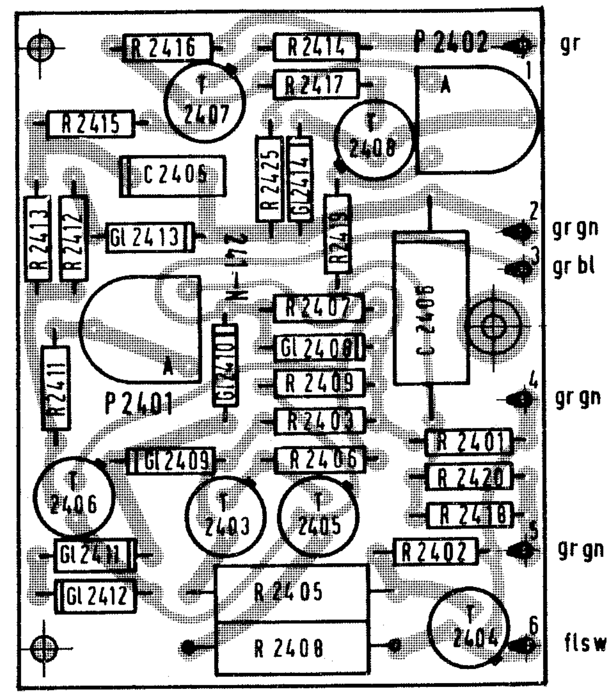

-
+
b
a
Rel 2301
R 2314
Gl 2306
R 2310
R 2311
R 2312
C 2309
GL 2305
R 2309



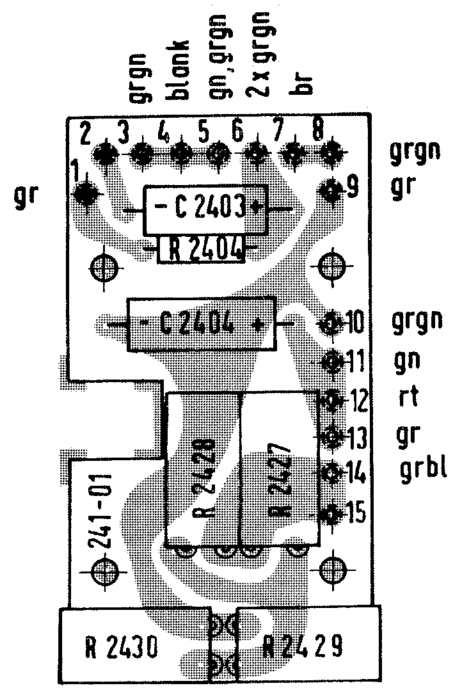
RWO-5/BN 241

Diskriminator (23)

(Discriminator)

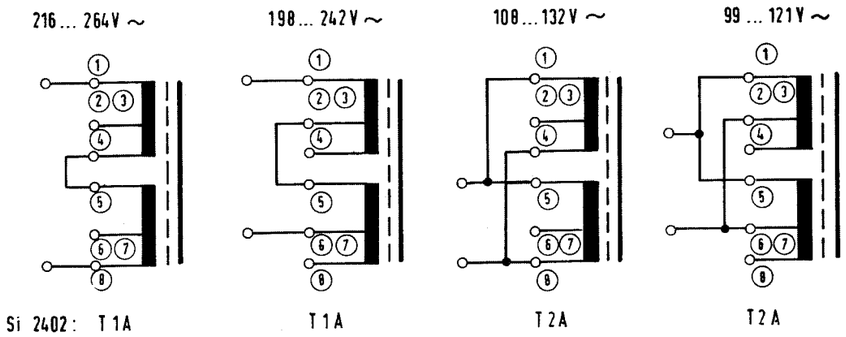


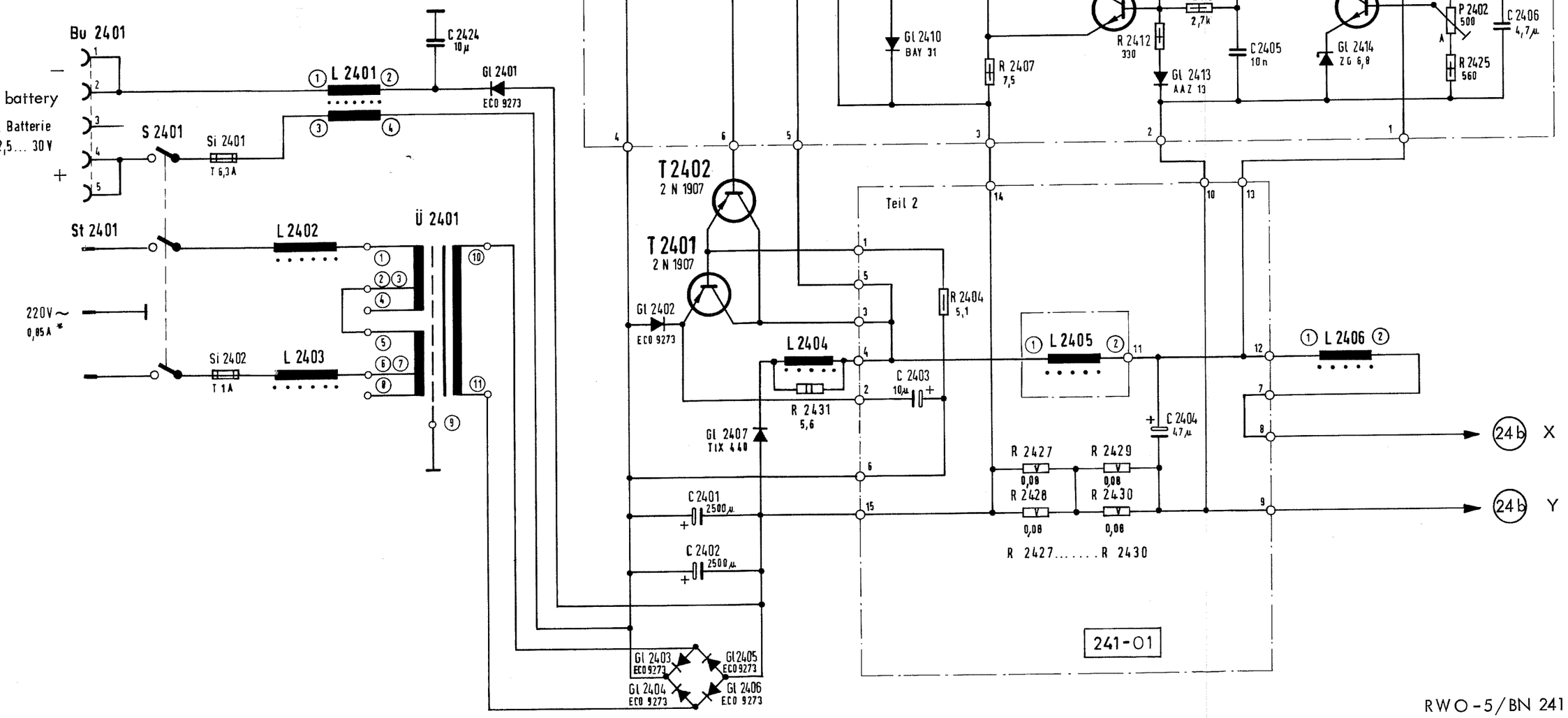
R 2416
R 2414
P 2402
gr
R 2417
A
1
T 2407
T 2408
R 2415
C 2405
R 2425
Gl 2414
R 2413
R 2412
Gl 2413
241-2
R 2419
2
gr gn
3
gr bl
C 2406
R 2407
Gl 2408
A
R 2411
Gl 2410
R 2409
P 2401
R 2403
4
gr gn
R 2401
Gl 2409
R 2406
R 2420
T 2406
T 2403
T 2405
R 2418
5
gr gn
Gl 2411
R 2402
Gl 2412
R 2405
T 2404
6
R 2408
flsw



grgn
blank
gn, grgn
2 x grgn
br
2 3 4 5 6 7 8
grgn
1
gr
- C 2403 +
9
gr
R 2404
- C 2404 +
10
grgn
11
gn
12
rt
13
gr
14
grbl
15
R 2428
R 2427
241-01
R 2430
R 2429

Anschluß - Schema: connection details

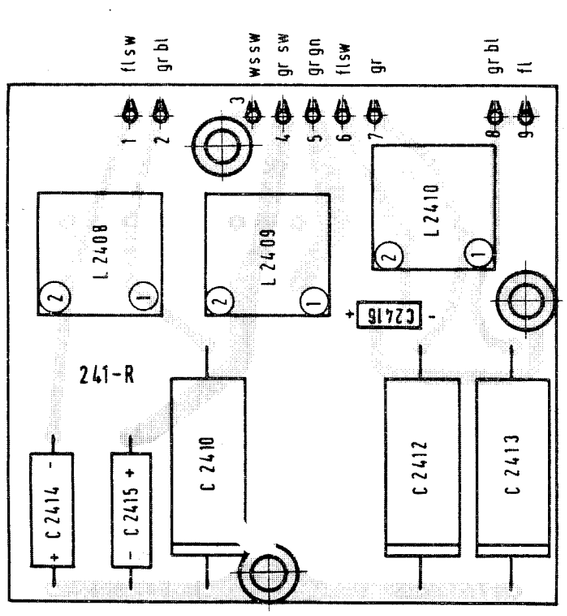


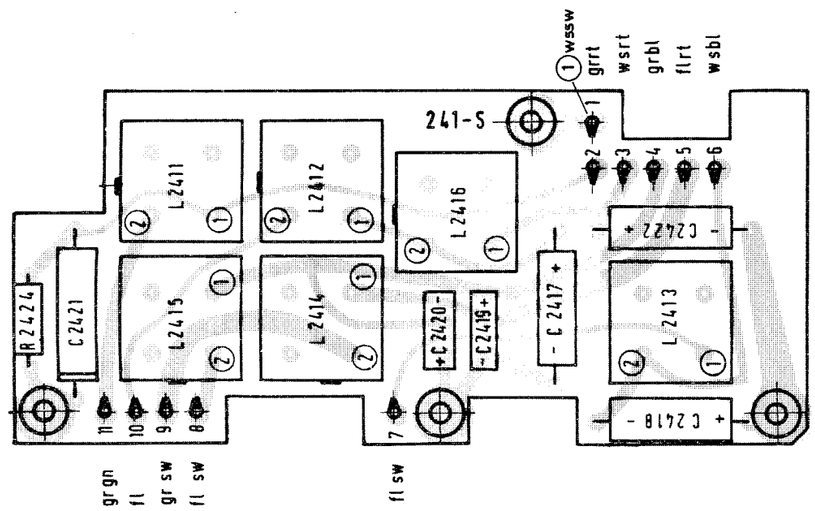


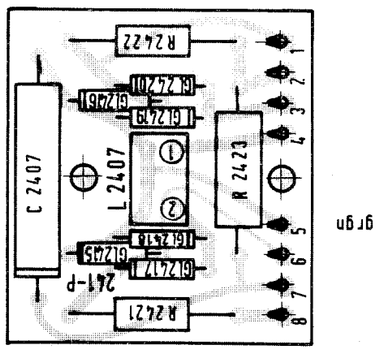
RWO-5/BN 241

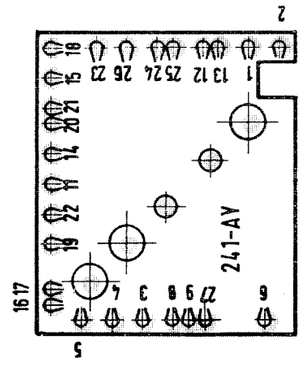
Netzteil (24a)

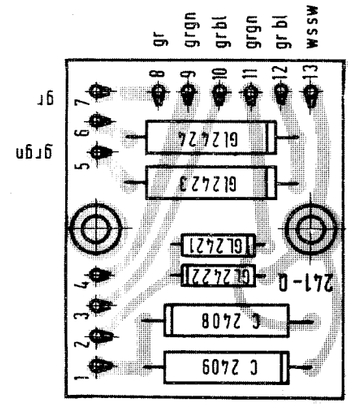
(Power Supply)

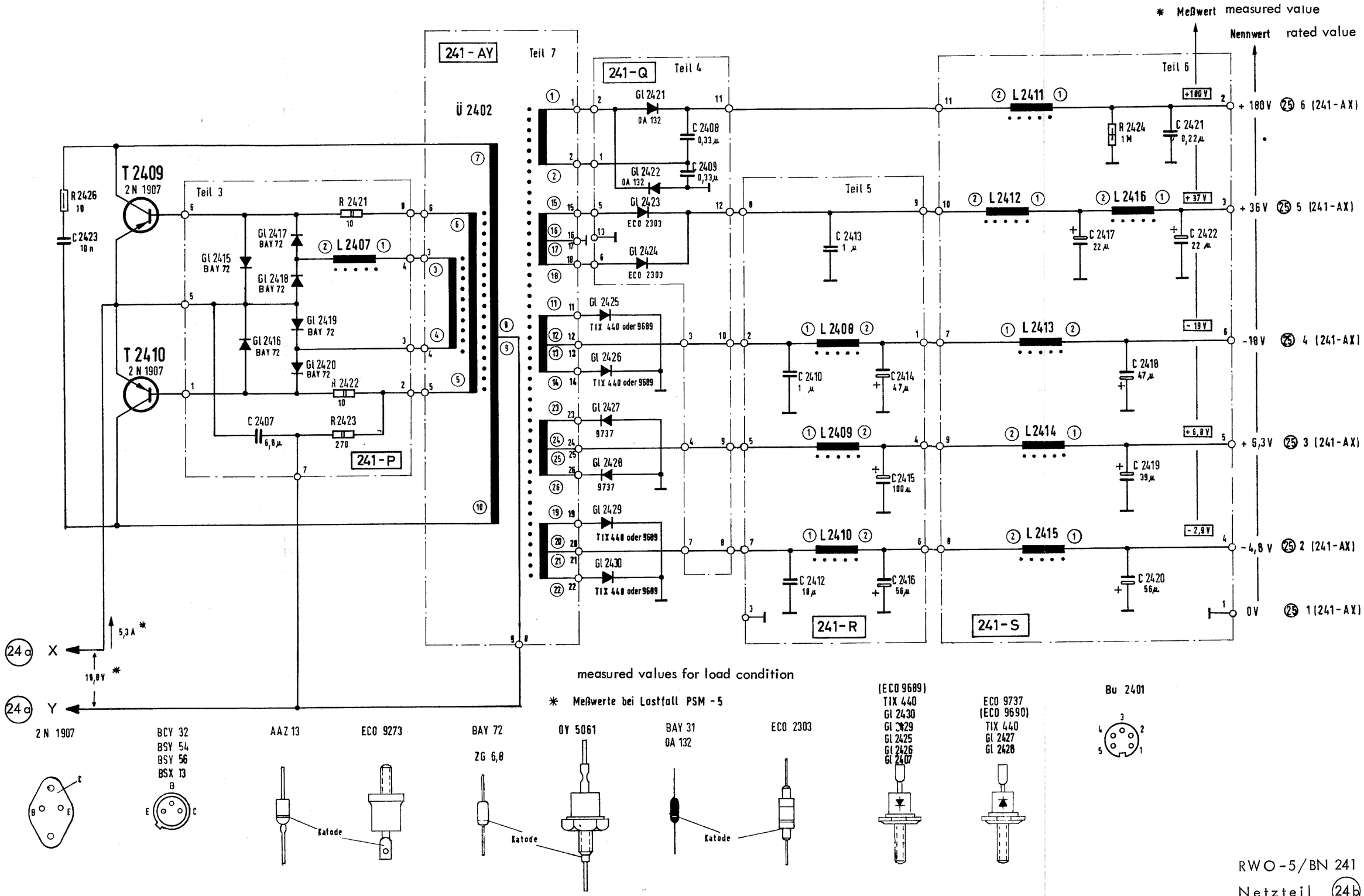

fl sw
gr bl
wssw
gr sw
gr gn
fl sw
gr
gr bl
fl
1
2
3
4
5
6
7
8
9
L 2408
L 2409
L 2410
C 2416
241-R
+ C 2414 -
- C 2415 +
C 2410
C 2412
C 2413


wssw
grrt
wsrt
grbl
flrt
wsbl
241-S
1
2
3
4
5
6
L 2411
L 2412
L 2416
L 2415
L 2414
L 2413
C 2421
R 2424
+ C2420 -
- C2419 +
- C 2417 +
- C2422 +
+ C 2418 -
11
10
9
8
7
grgn
fl
gr sw
fl sw
fl sw

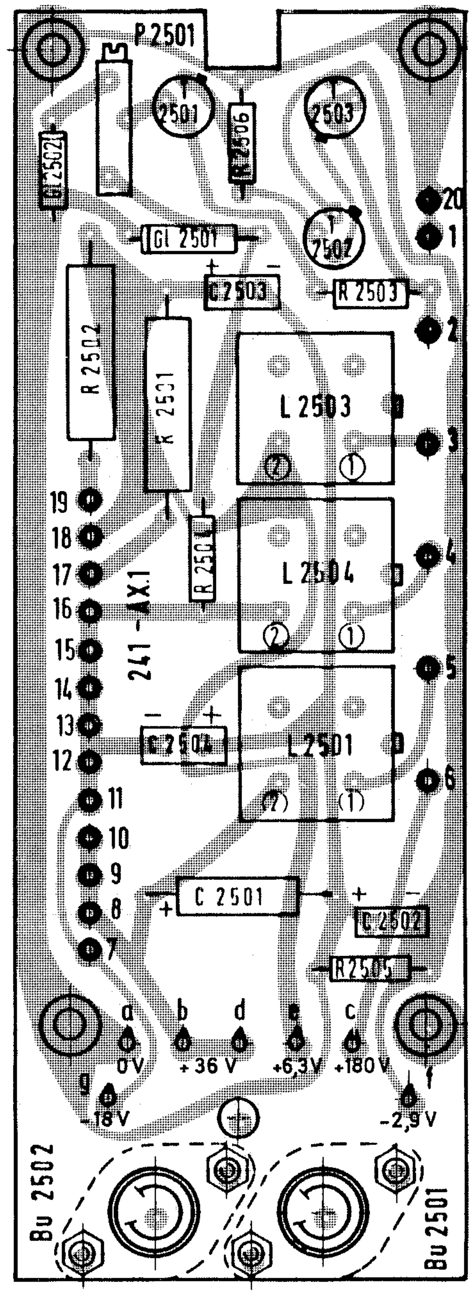

R2422
C 2407
L 2407
R 2423
241-P
R2421
gr gn

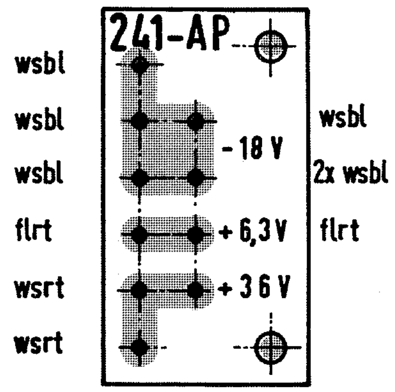

2
241-AY
5
16 17

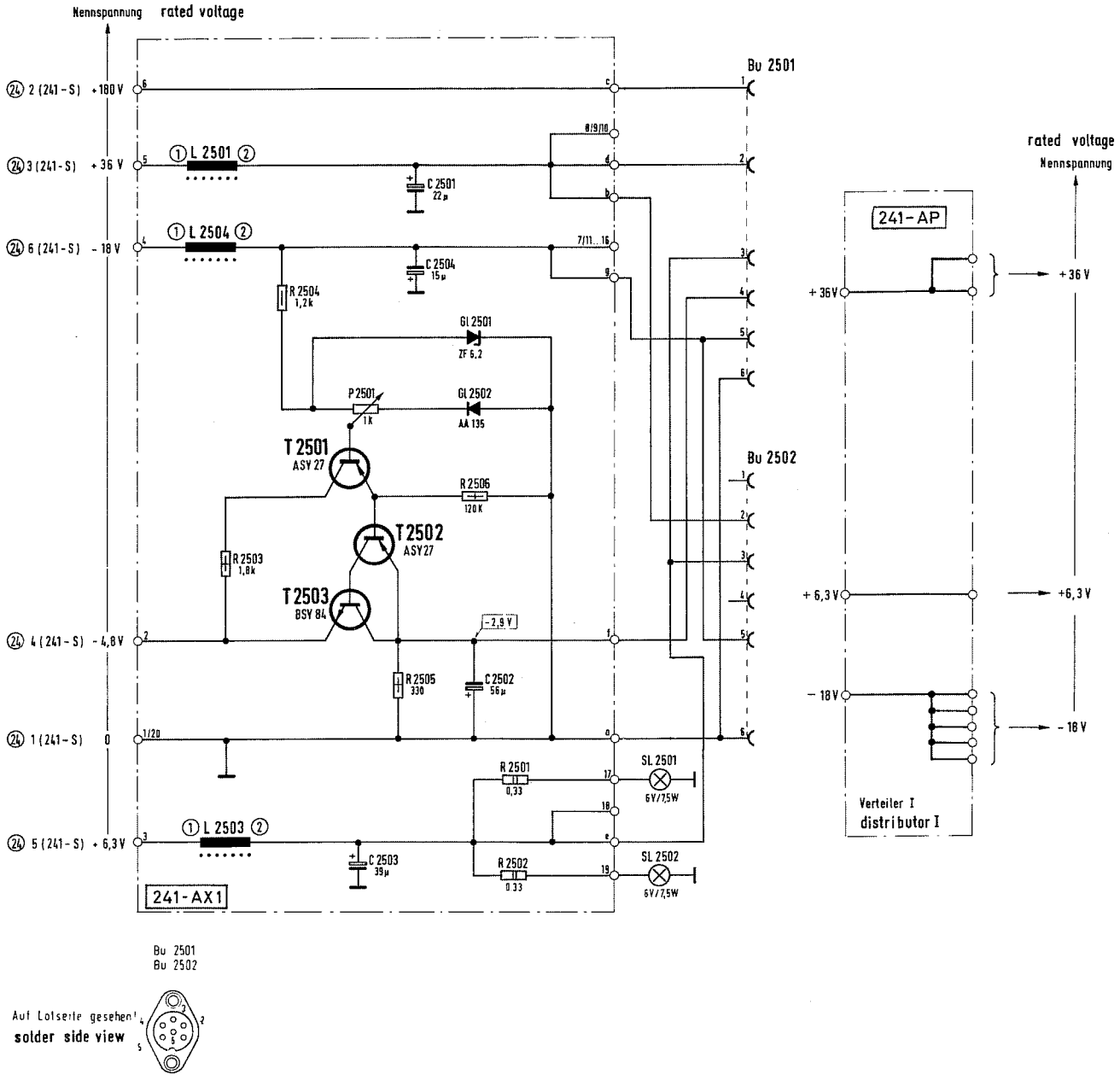

gr
grgn
grbl
grgn
gr bl
wssw
8
9
10
11
12
13
gr
grgn
C 2409
C 2408
241-Q



RWO-5/BN 241
Netzteil (24b)
(Power Supply)


P 2501
T 2501
R 2506
T 2503
Gl 2502
Gl 2501
T 2502
C 2503
R 2503
R 2502
R 2501
L 2503
R 2504
L 2504
241-AX1
C 2504
L 2501
C 2501
C 2502
R 2505
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
a
b
d
e
c
0 V
+ 36 V
+6,3 V
+180 V
g
-18 V
f
-2,9 V
Bu 2502
Bu 2501


241-AP
wsbl
wsbl
wsbl
flrt
wsrt
wsrt
- 18 V
+ 6,3 V
+ 3 6 V
wsbl
2x wsbl
flrt



RWO-5/BN 241

Zusatzsiebung (25)

(Filter Attachment Network)

Trägerfrequenz-Eingang 69,01MHz bis 105 MHz
RWO-5/BN 241

St 1101

Begrenzer
(11)

Such-Oszillator
(13)
20 Hz

(2) Phasenregler
u / φ
Λ·Λ

St 201
Synchronisier-Eingang
1 MHz
RWO-5/BN 241

Umsetzer
(5)

69MHz-Verstärker
(4)

Amplitudenmodulator
(3)

69MHz-Oszillator
(1)

Amplitudenregler
(10)
dB dBm
(N) (Nm)

Bu 1001
Eingang für AM

36 MHz-Tiefpass
(6)

Vorverstärker
(7)

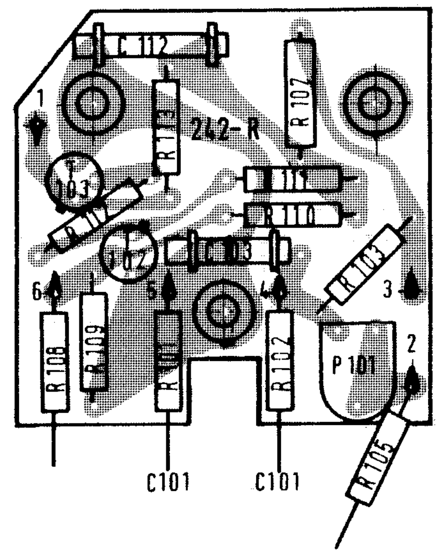
Endverstärker
(8)

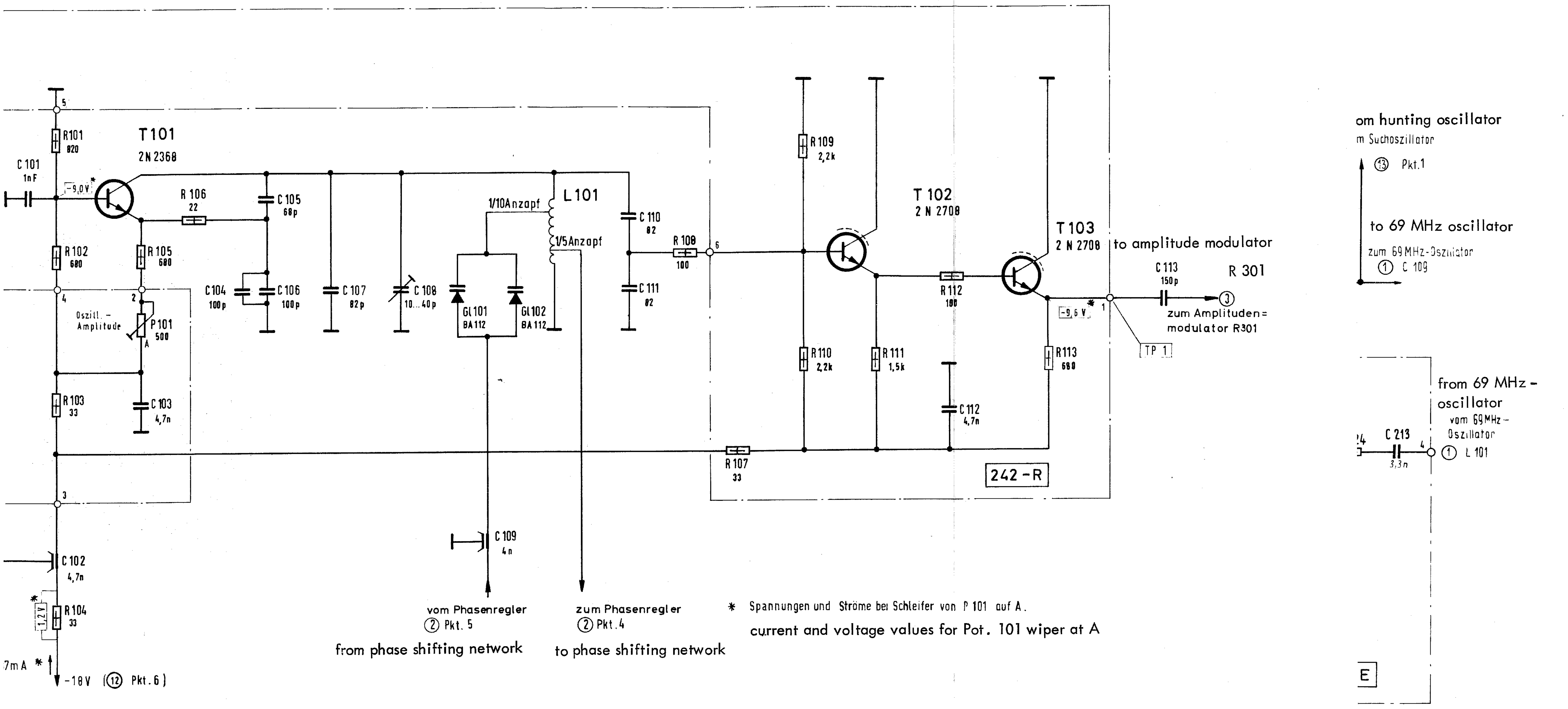
Teiler
(9)
0 70dB
0 7N
R_i

Bu 901
Ausgang I
R_i = 50...150 Ω
0.01 bis 36 MHz

Bu 802
Ausgang II
R_i = 75Ω

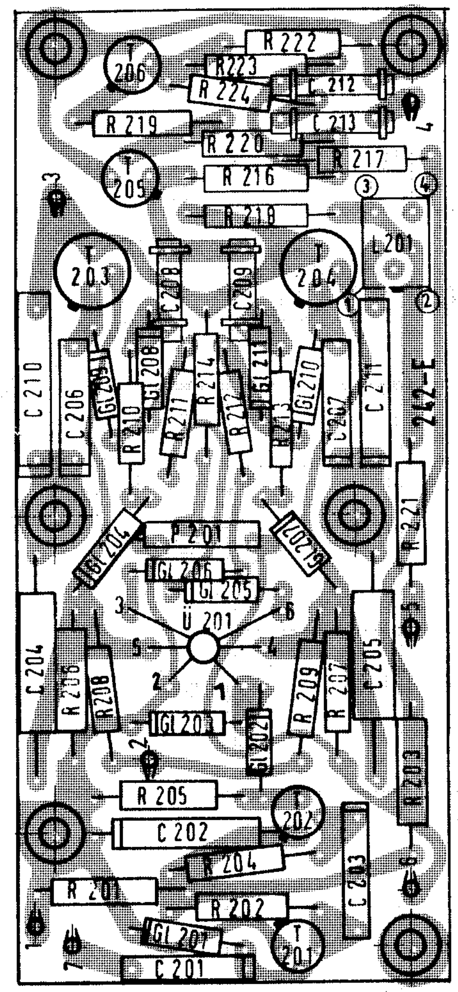
PS-5/BN 242
Blockschaltplan

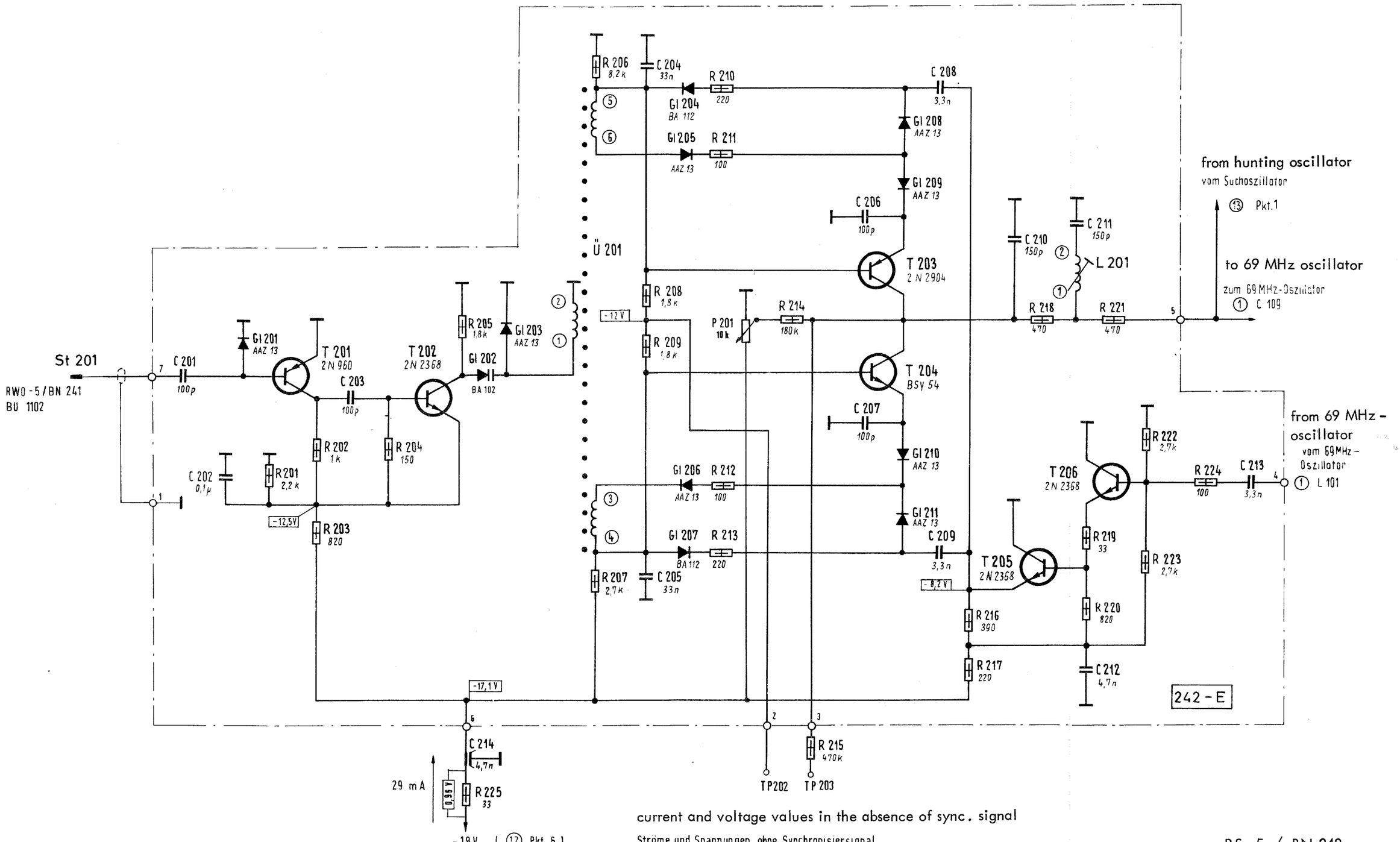

C 112
R 107
242-R
R 111
R 110
C 103
R 103
1
3
6
5
4
2
R 108
R 109
R 102
P 101
R 105
C101
C101



PS-5/BN 242
69-MHz-Oszillator (1)
(69 MHz Oscillator)

PS-5 / BN 242
Phasenregler (2)
(Phase Control)


R 222
R223
R 224
C 212
C 213
R 219
R 220
R 217
R 216
R 218
T 206
T 205
T 203
T 204
L 201
C 208
C 209
C 210
C 206
C 211
242-E
R 221
P 201
GL 206
GL 205
Ü 201
C 204
R 206
R 208
R 209
R 207
C 205
R 203
GL 203
GL 202
R 205
C 202
T 202
R 204
C 203
R 201
R 202
GL 201
T 201
C 201



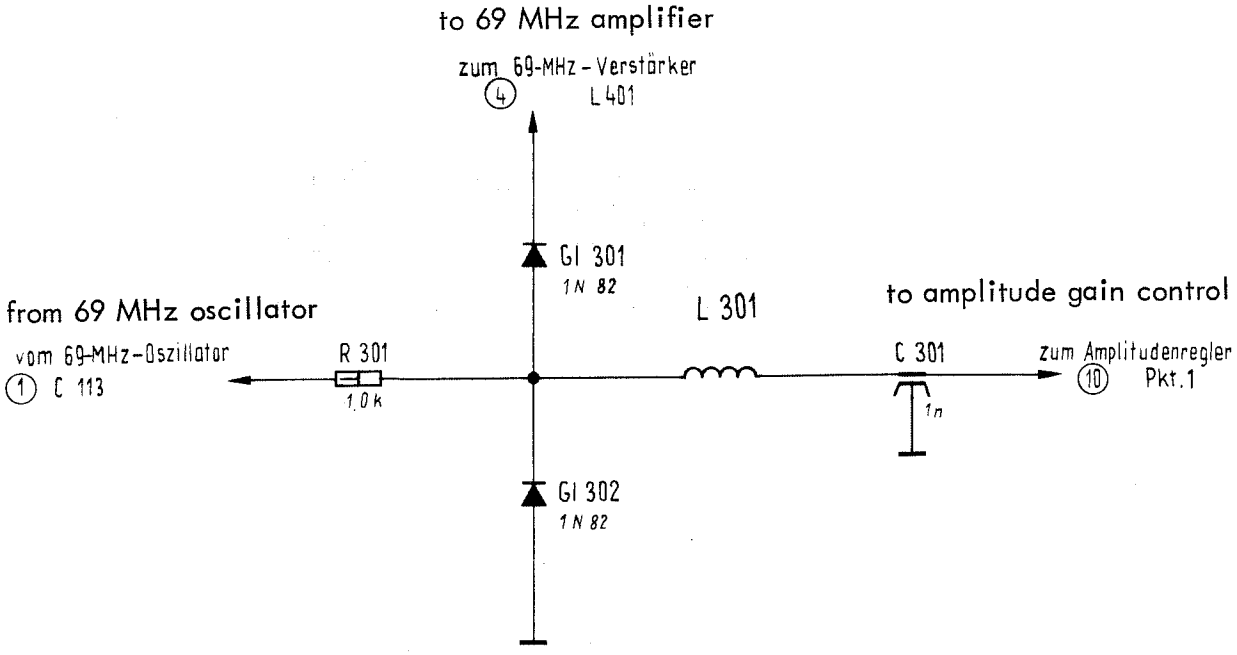
current and voltage values in the absence of sync. signal

Ströme und Spannungen ohne Synchronisiersignal

PS-5 / BN 242

Phasenregler (2)

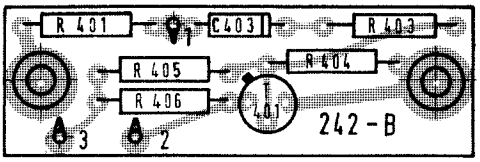
(Phase Control)

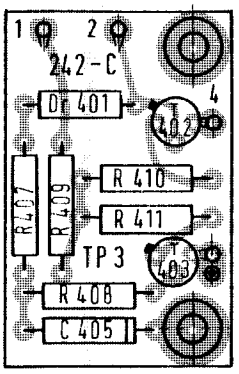


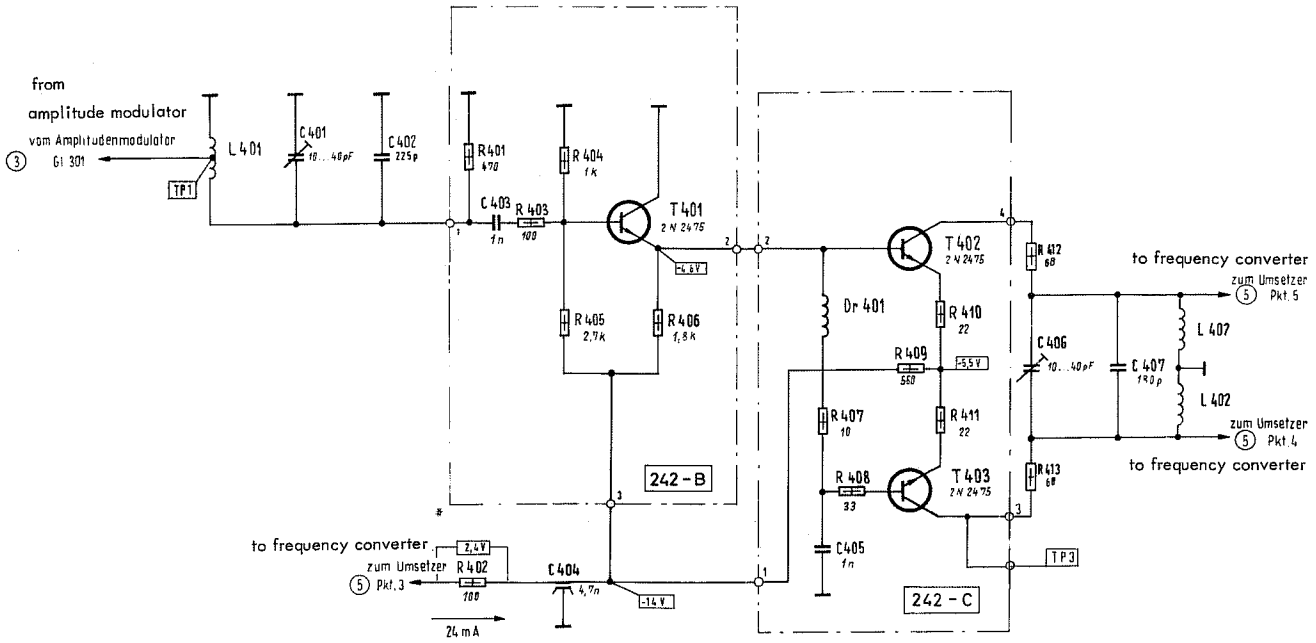
PS-5/BN 242

Amplitudenmodulator (3)

(Amplitude Modulator)


R 401
C 403
R 403
R 405
R 404
R 406
T 401
242 - B
3
2

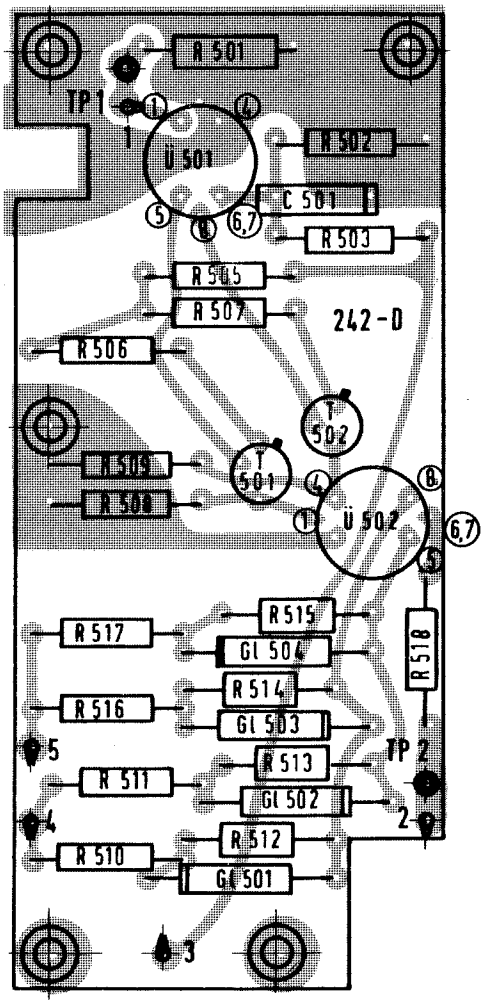

1
2
242 - C
D 401
4
T 402
R 410
R 407
R 409
R 411
TP 3
T 403
R 408
C 405



PS-5/BN 242

69-MHz-Verstärker (4)

(69 MHz Amplifier)


R 501
TP 1
1
Ü 501
R 502
C 501
R 503
R 505
R 507
242-D
R 506
T 502
T 501
R 509
R 508
Ü 502
6,7
R 515
R 517
Gl 504
R 514
R 516
Gl 503
TP 2
5
R 513
R 511
Gl 502
2
4
R 512
R 510
Gl 501
3
R 518

from 69 MHz amplifier
vom 69 MHz - Verstärker
④ Pkt 3

from 69 MHz amplifier
vom 69 MHz - Verstärker
④ Pkt 4

4

5

GI 501
1N 82

GI 503
1N 82

R 510
33

R 512
390

R 514
390

R 516
33

T 501
BSX 27

R 506
22

Ü 501

Ü 502

R 508
330

R 505
180

-9,3V

R 509
330

R 507
22

T 502
BSX 27

R 518
180

2

to 36 MHz LPFN
zum 36- MHz - Tiefpass
⑥ C 601

to limiter
zum Begrenzer
⑪ Pkt 5

1

R 501
100

TP2

TP1

R 511
33

R 513
390

R 515
390

R 517
33

GI 502
1N 82

GI 504
1N 82

R 502
680

C 501
4,7n

R 503
560

242 - D

3

zum 69 MHz - Verstärker
④ R 402
to 69 MHz amplifier

C 502
4,7n

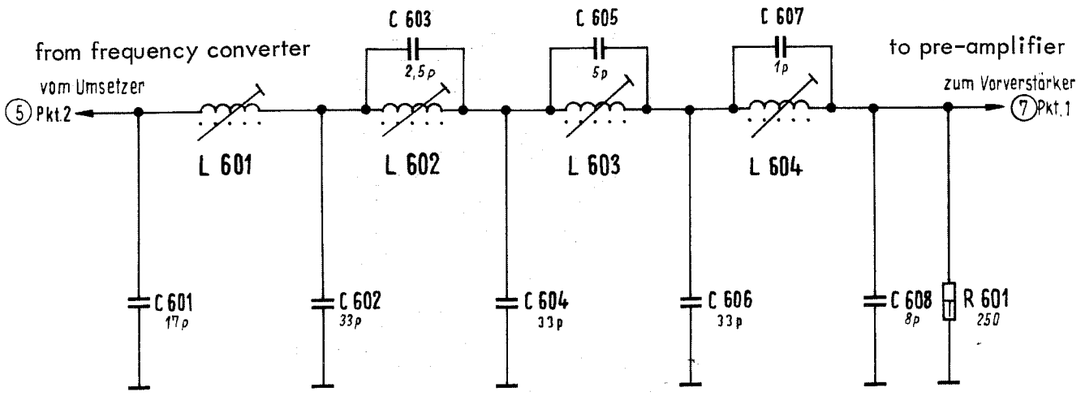
R 504
22

1,6V

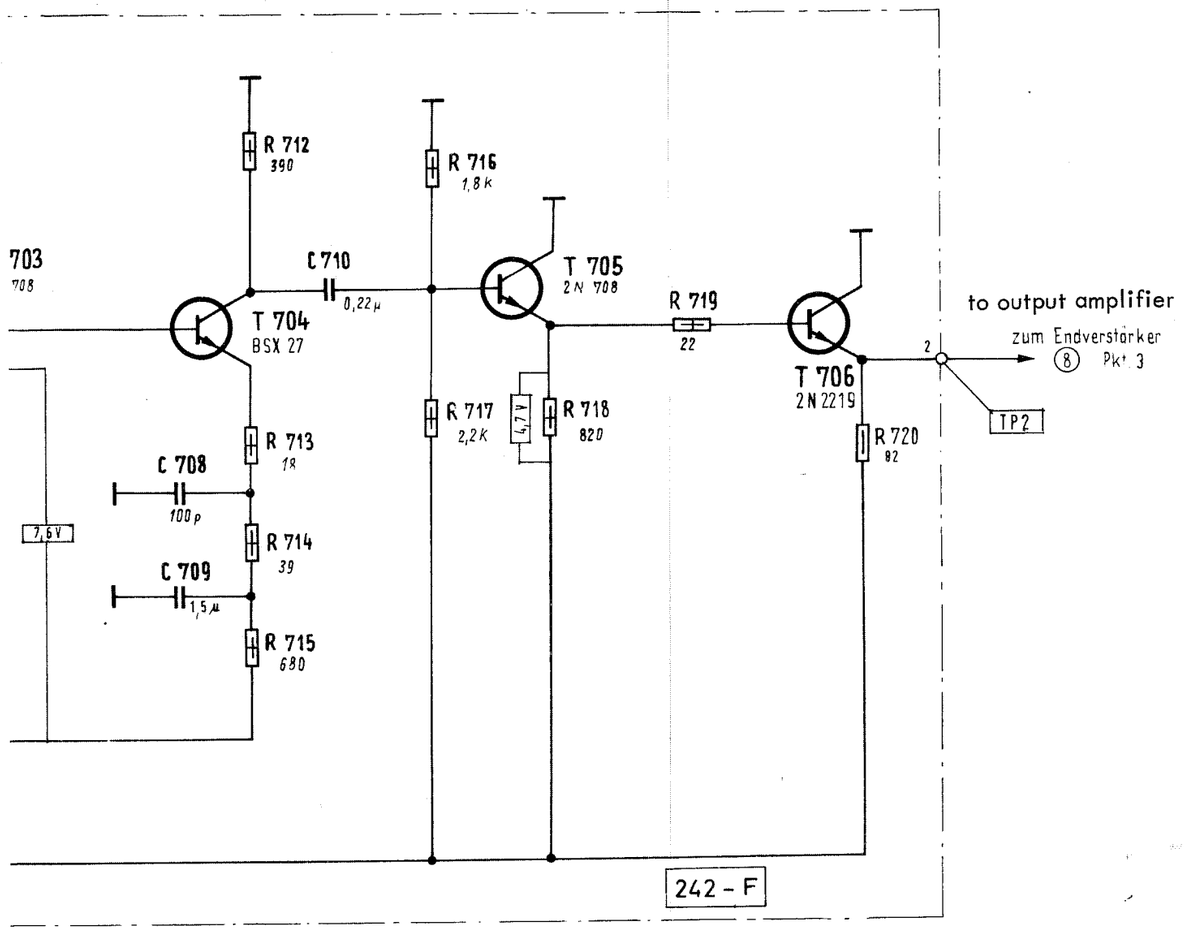
71mA

-18V
(⑫ Pkt. 6)

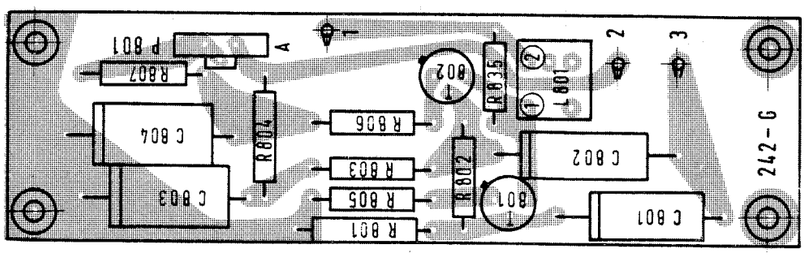
PS-5/BN 242
Umsetzer (5)
(Frequency Converter)

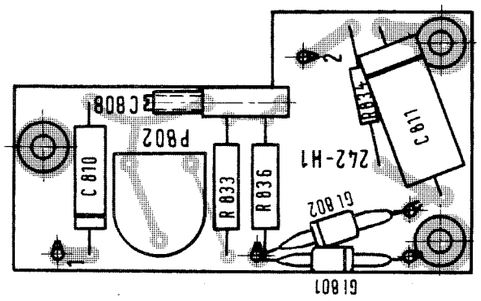


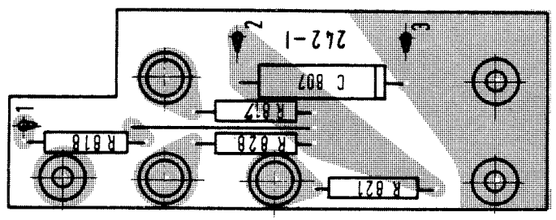
PS-5/BN 242
36-MHz-Tiefpaß (6)
(36 MHz Low Pass Filter)

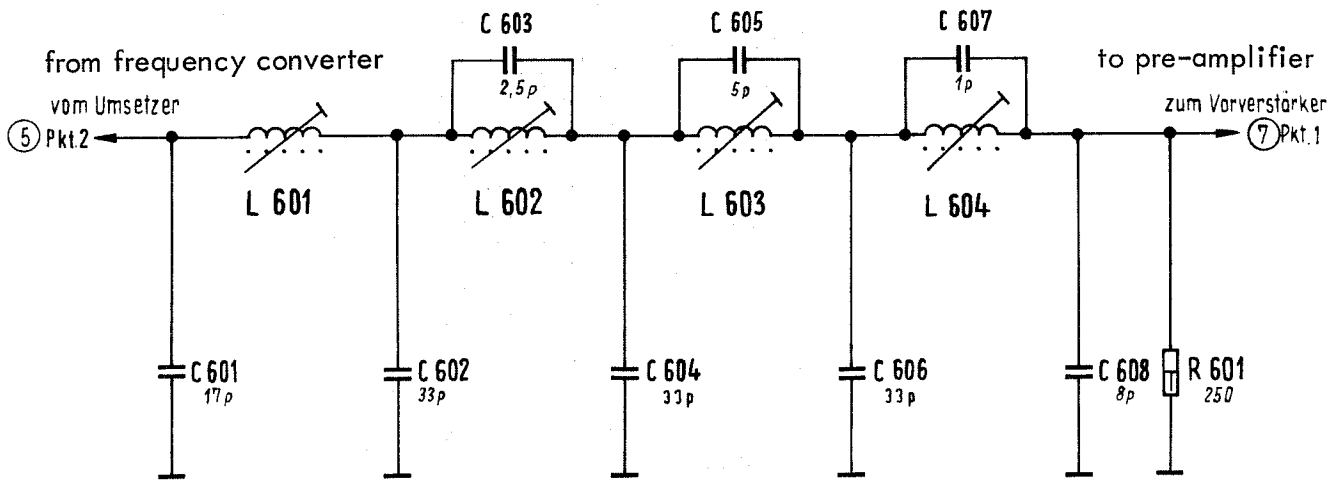


PS-5/BN 242
Vorverstärker (7)
(Pre-Amplifier)


242-G
C 801
C 802
C 803
C 804
R 801
R 802
R 803
R 804
R 805
R 806
R 835
P 801
R 807
B01
B02
A
1
2
3


242-H1
C 808
P 802
C 810
R 833
R 836
C 811
R 810
Gl 802
Gl 801

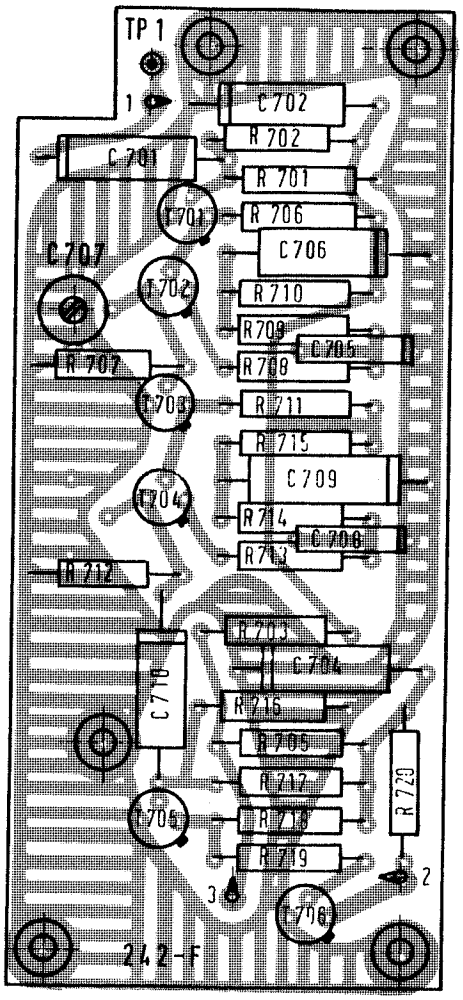

242-I
C 807
R 817
R 818
R 828
R 821
1
2
3

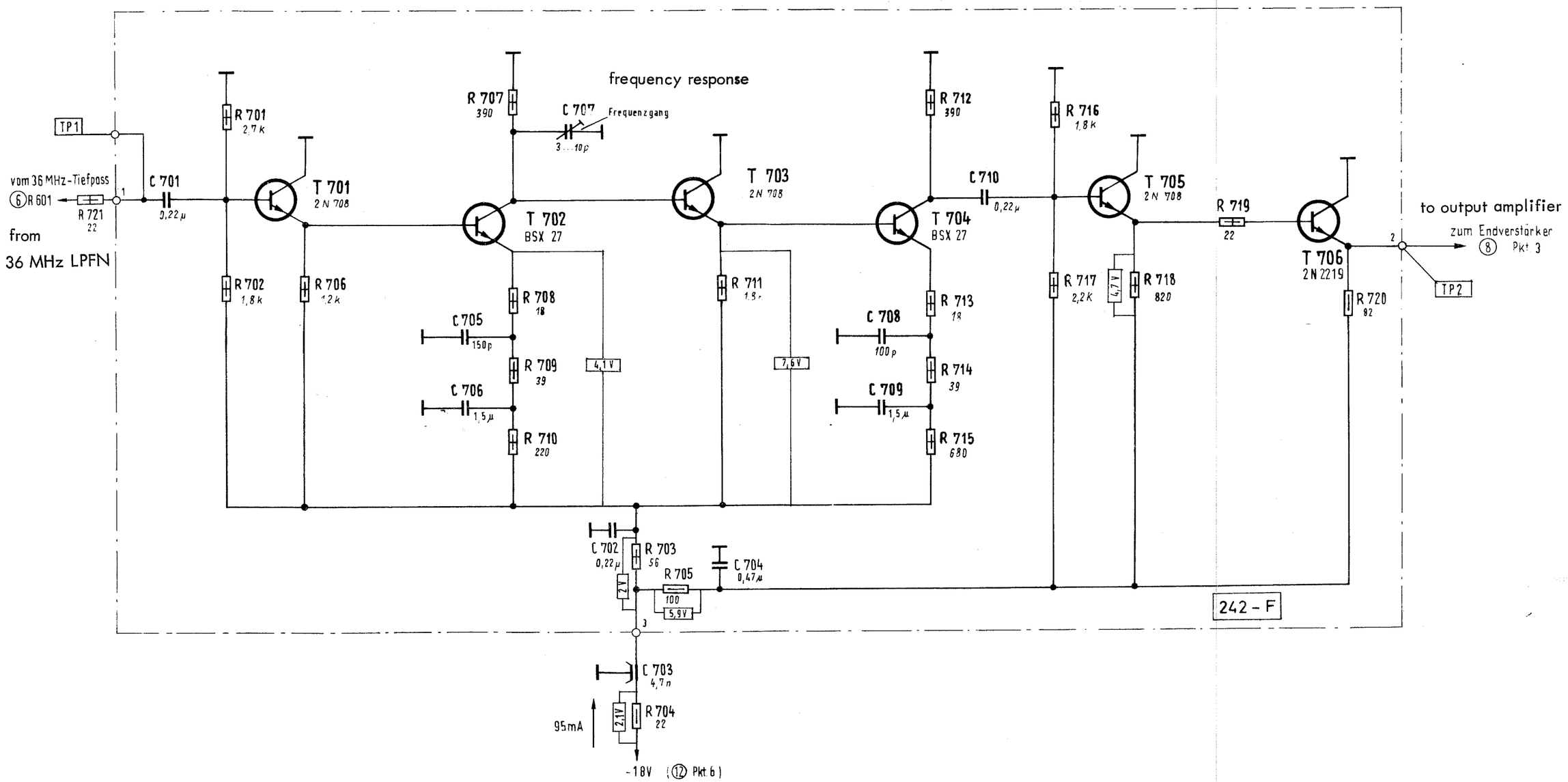


PS-5/BN 242

36-MHz-Tiefpaß (6)

(36 MHz Low Pass Filter)

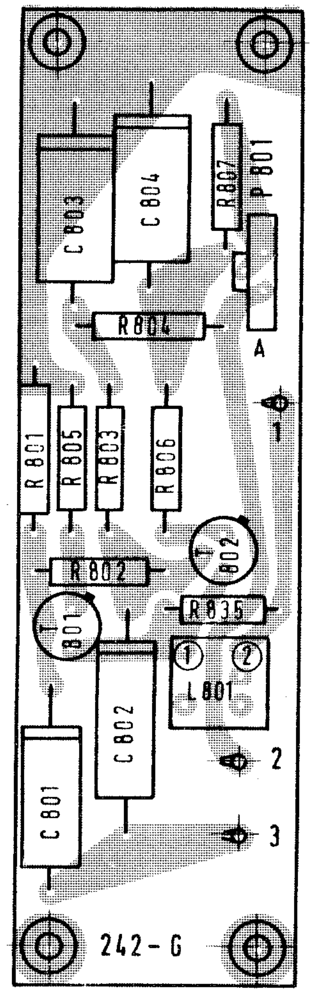

TP 1
1
C 702
R 702
C 701
R 701
T701
R 706
C 706
C 707
T702
R 710
R 709
C 705
R 702
R 708
T703
R 711
R 715
C 709
T704
R 714
C 708
R 713
R 712
R 703
C 704
C 710
R 716
R 705
R 717
R 729
T705
R 718
R 719
3
2
T706
242-F

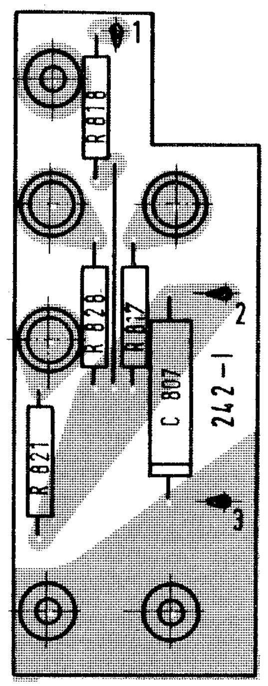


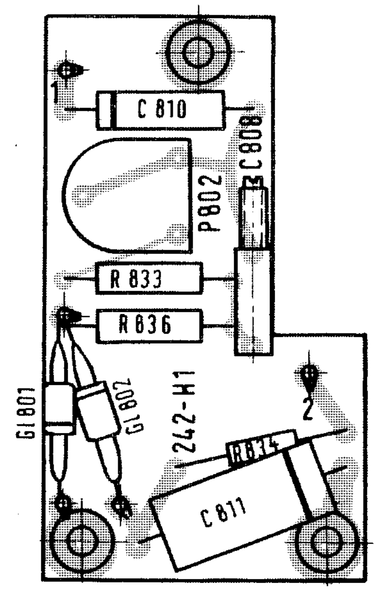
PS-5/BN 242

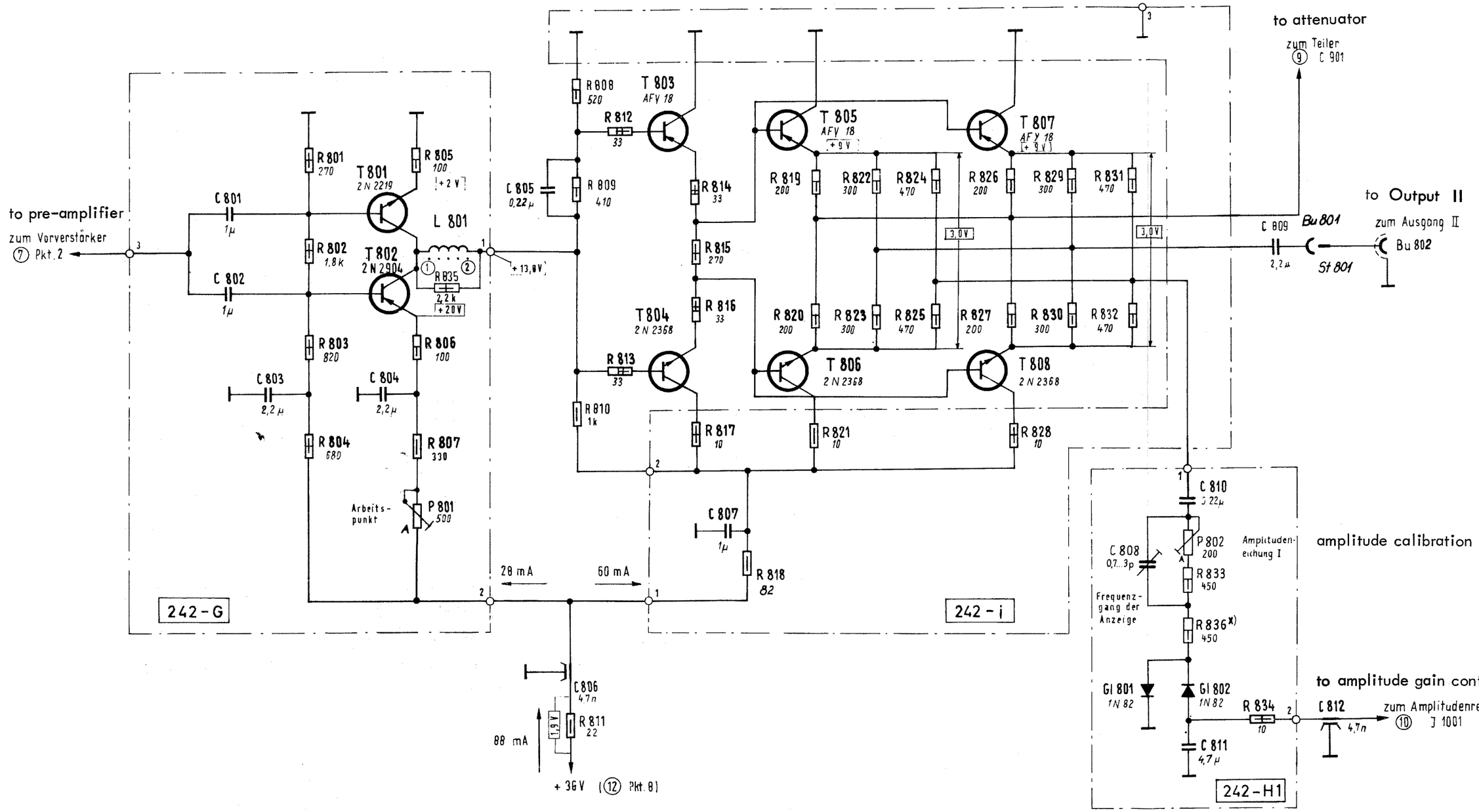
Vorverstärker (7)

(Pre-Amplifier)


C 803
C 804
R 807
P 801
R 804
A
1
R 801
R 805
R 803
R 806
T 802
R 802
R 835
T 801
1
2
L 801
C 802
2
C 801
3
242 - G


1
R 818
R 828
R 817
2
C 807
242 - I
R 821
3


1
C 810
C 808
P 802
R 833
R 836
Gl 801
Gl 802
242 - H1
2
R 834
C 811



Spannungen sind gegen Masse gemessen.

voltages measured with respect to chassis

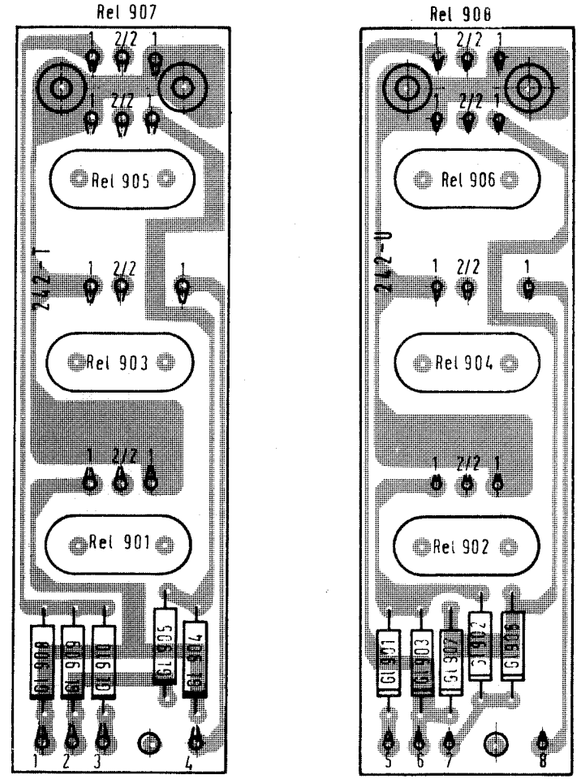
x) Bei Neper-Ausführung : R 836/250 Ω

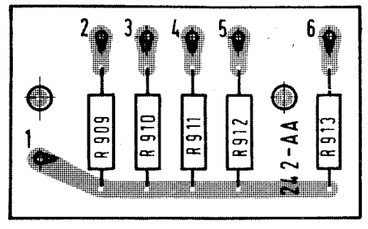
for Neper design : R 836/250 Ω

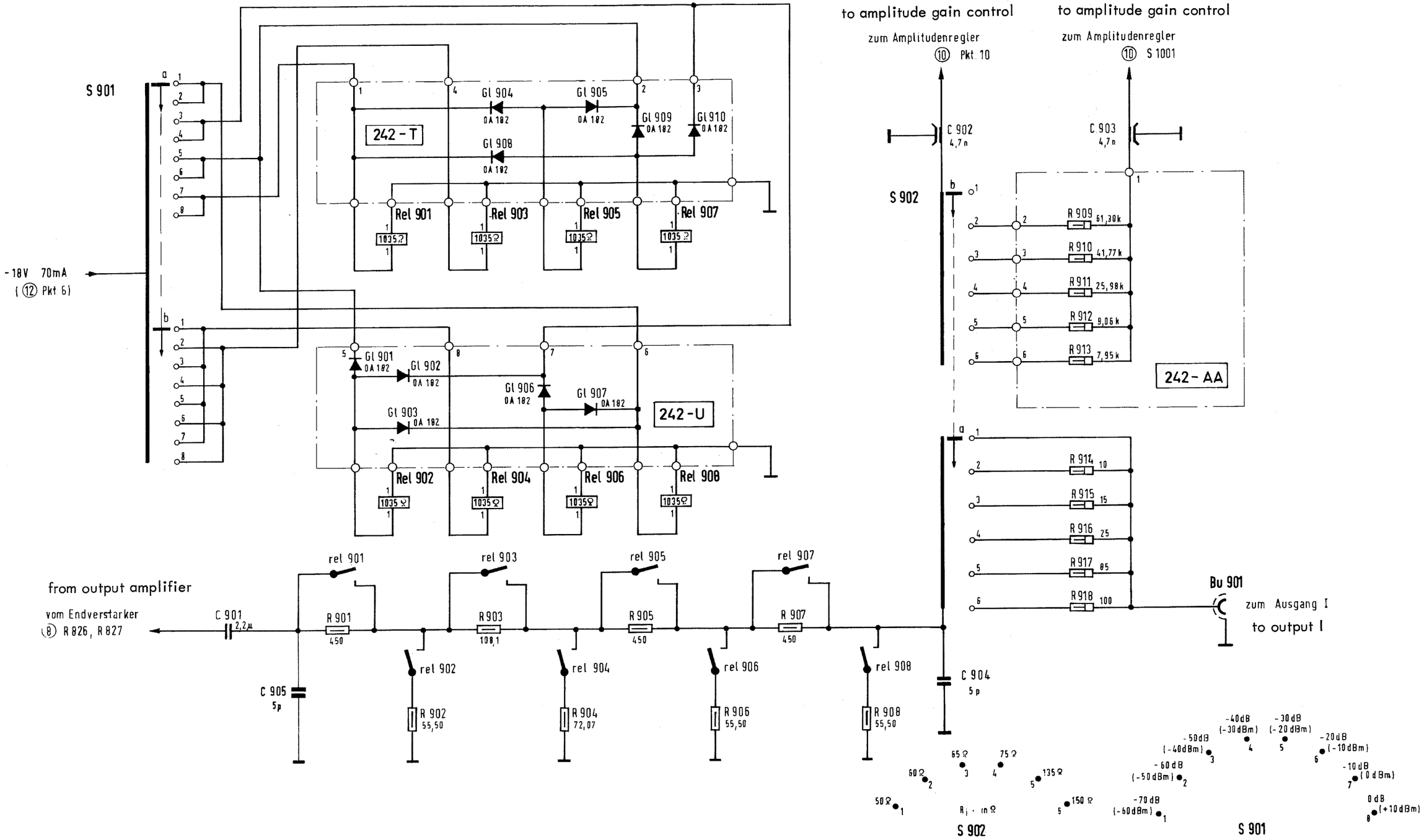
PS-5/BN 242

Endverstärker (8)

(Output Amplifier)


Rel 907
Rel 908
Rel 905
Rel 906
Rel 903
Rel 904
Rel 901
Rel 902
1 2/2 1
242-U
Gl 908
Gl 906
Gl 910
Gl 905
Gl 904
Gl 901
Gl 903
Gl 907
Gl 912
Gl 909
1 2 3 4
5 6 7 8

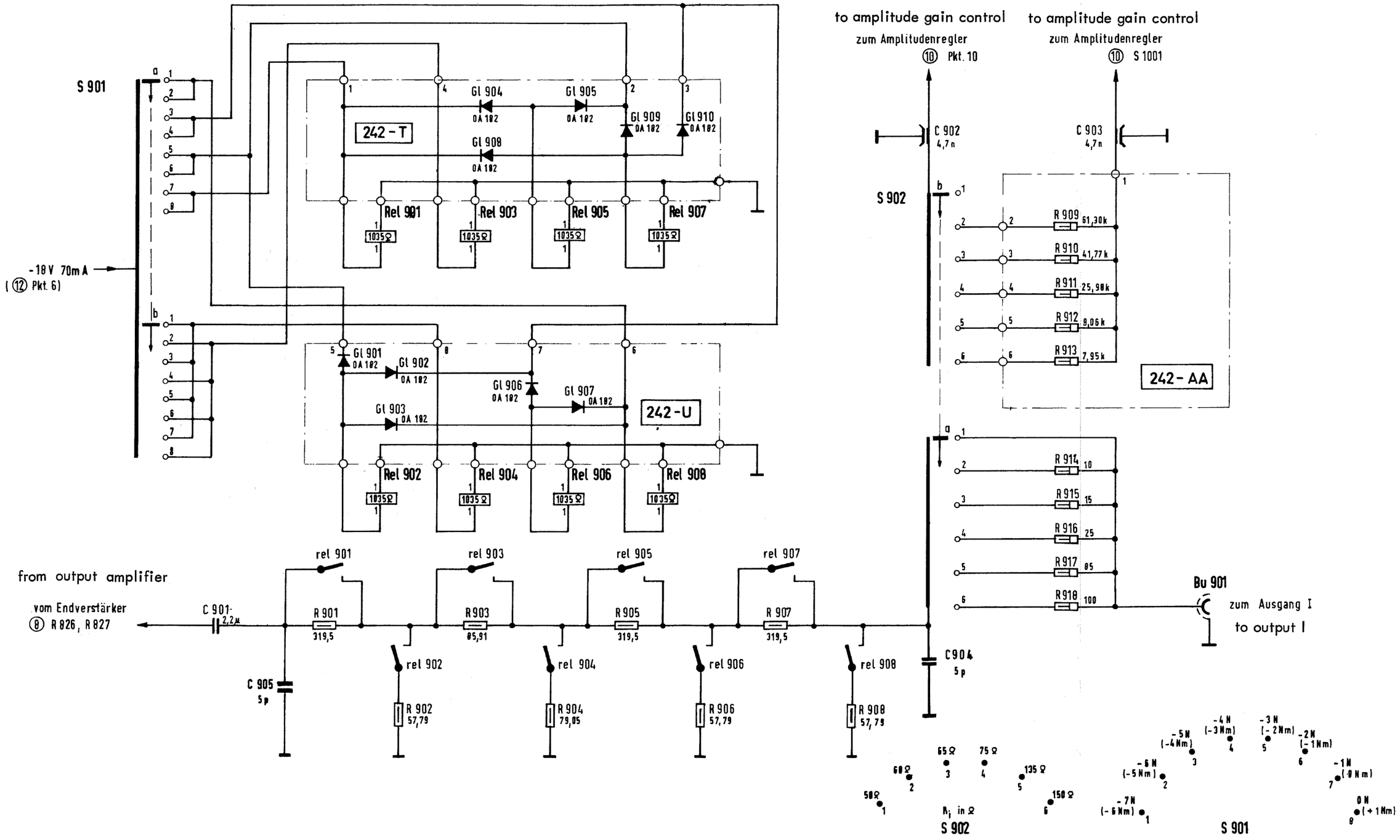

2 3 4 5 6
1
R 909
R 910
R 911
R 912
R 913
242-AA



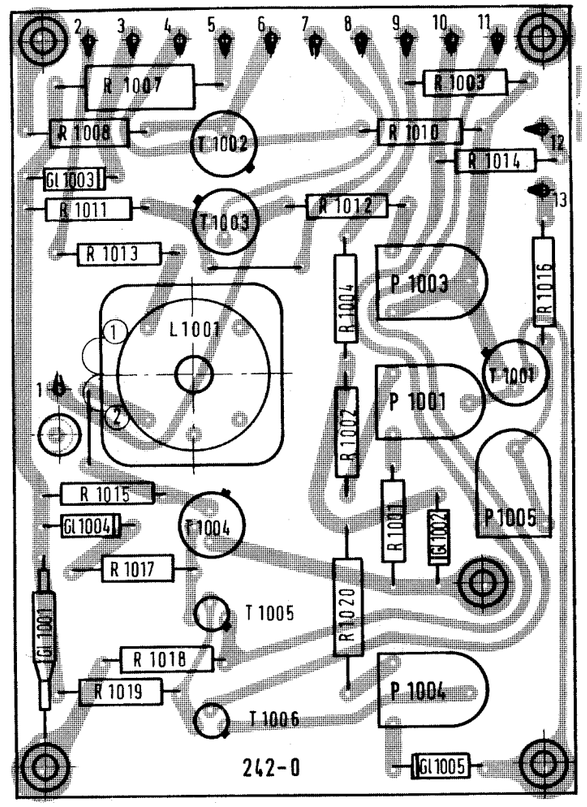
PS-5/BN 242

Teiler dB (9)

(Attenuator)



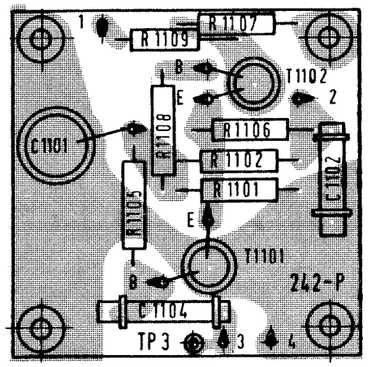
PS-5/BN 242/1
Teiler Np ⑨
(Attenuator)

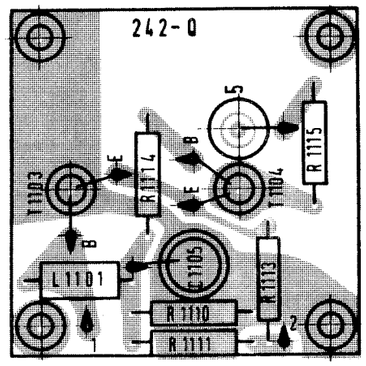

2
3
4
5
6
7
8
9
10
11
12
13
R 1007
R 1008
GL 1003
R 1011
R 1013
T 1002
T 1003
R 1003
R 1010
R 1014
R 1012
R 1004
P 1003
R 1016
L 1001
1
2
T 1001
P 1001
R 1002
R 1015
GL 1004
T 1004
R 1017
R 1001
R 1021
P 1005
GL 1002
GL 1001
T 1005
R 1020
R 1018
R 1019
P 1004
T 1006
GL 1005
242-0

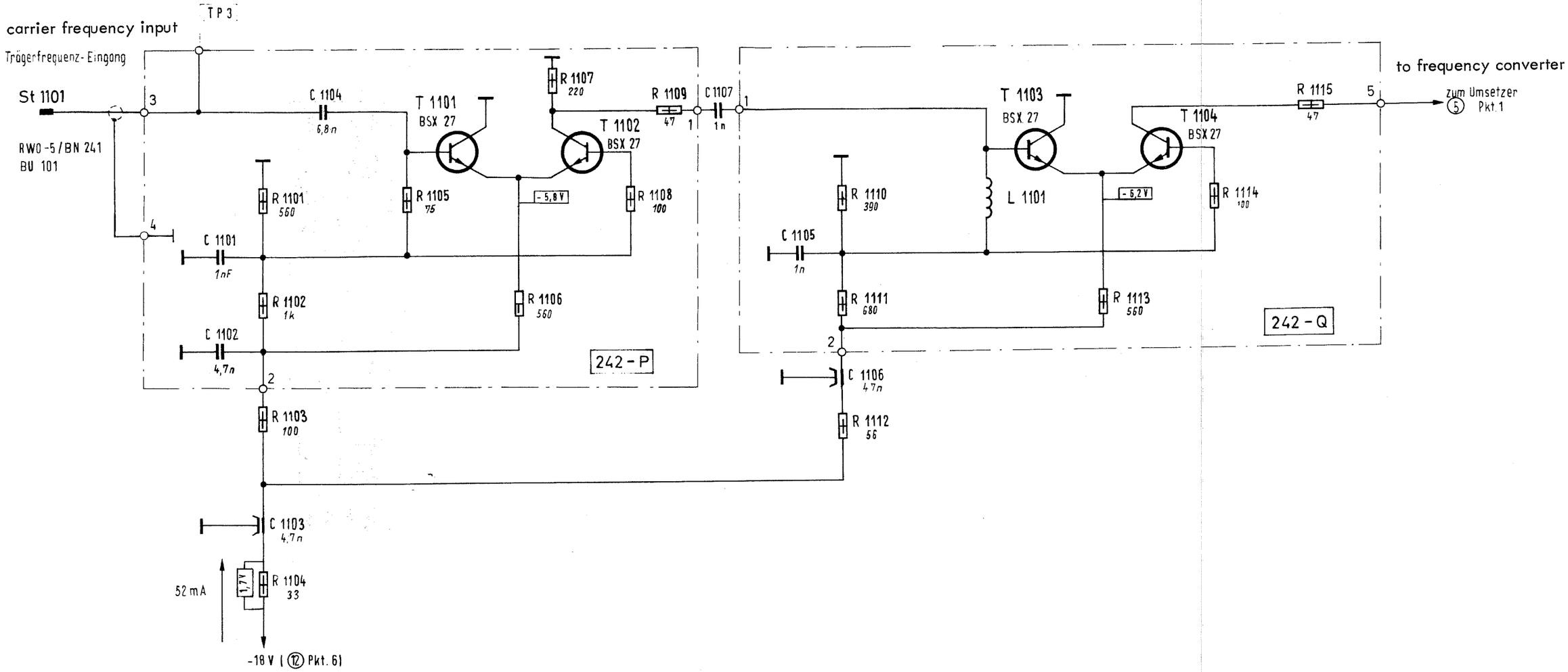
+36V
31mA
R 1006 33
C 1001 4,7n
5
R 1007 680
Gl 1001 ZM 15
Gl 1003 OA 127
3
output level Ausgangs-amplitude
A
P 1002 500
4
7
R 1008 500
T 1002 BSY 54
T 1003 ASY 27
R 1011 820
R 1012 680
A
Arbeits-punkt Amplituden-Regler
P 1003 1k
operating-point
amplitude-gain-control
R 1010 500
AM-Modulation
Bu 1001
6
T 1001 BSY 54
R 1001 1k 4 V setting
4 Volt Einstellung
P 1001 1k
A
Gl 1002 ZG 6,8
R 1002 1k
-4V
R 1003 820
R 1004 470
9
C 1002 4,7n
R 1005 33
1,2V
36mA
-18V (12) Pkt 6)
1
vom Amplitudenmodulator
(3) C 301
from amplitude modulator
9
2
R 1013 10
L 1001
R 1015 820
T 1004 ASY 27
Gl 1004 OA 127
R 1017 500
T 1005 2 N 930
R 1019 47k
from divider
vom Teiler
(9) C 902
10
amplitude calibration II
Amplituden-eichung II
P 1005 300
R 1018 700
(R 909 bis 913)
R 1014 1) 61,30k
R 1016 6,26k
12
13
power level
Leistungspegel
voltage level
Spannungs-pegel
J 1001
vom Teiler
(9) C 903
from divider
S 1001
T 1006 2 N 930
11
Gl 1005 AAZ 13
scale division error
Skalenteilungsfehler
(Vorstrom)
A
P 1004 100
R 1020 1,5 k
from output amplifier
vom Endverstärker (8) C 812
242 - 0

1) Bei Neper-Ausführung 21,27 k
for Neper design 21,27 k

PS-5/BN 242
Amplitudenregler (10)
(Amplitude Control)


1
R 1107
R 1109
B
E
T 1102
2
R 1108
R 1106
C 1101
R 1102
C 1102
R 1101
R 1105
E
T1101
B
242-P
C 1104
TP 3
3
4

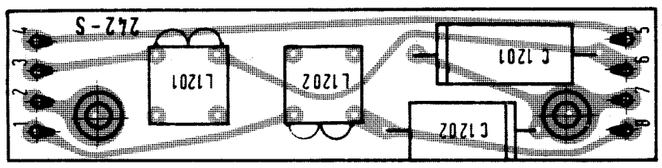

242-Q
5
R 1115
E
B
T 1103
R 1114
T 1104
B
E
L 1101
C 1105
R 1113
R 1110
R 1111
2

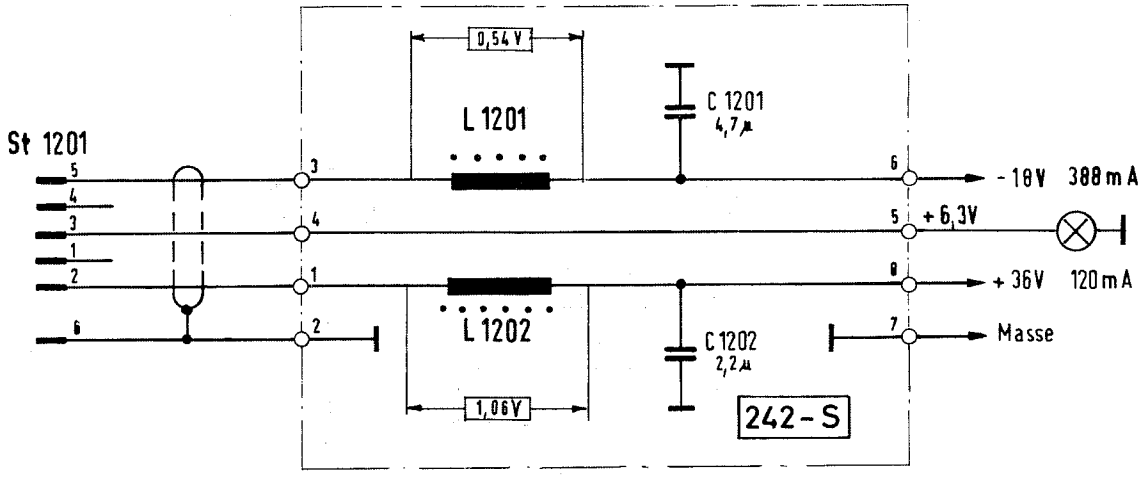


PS-5/BN 242

Begrenzer (11)

(Amplitude Limiter)

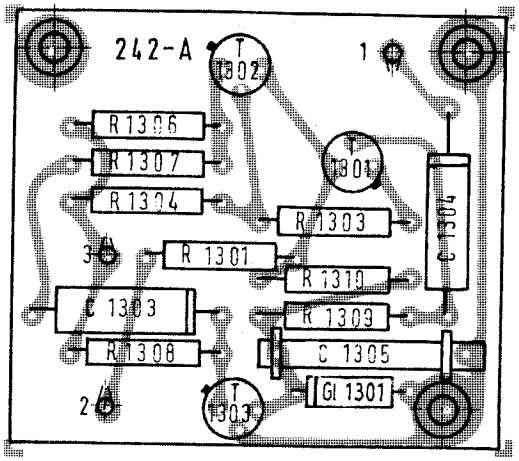

242-S
L1201
L1202
C 1201
C1202

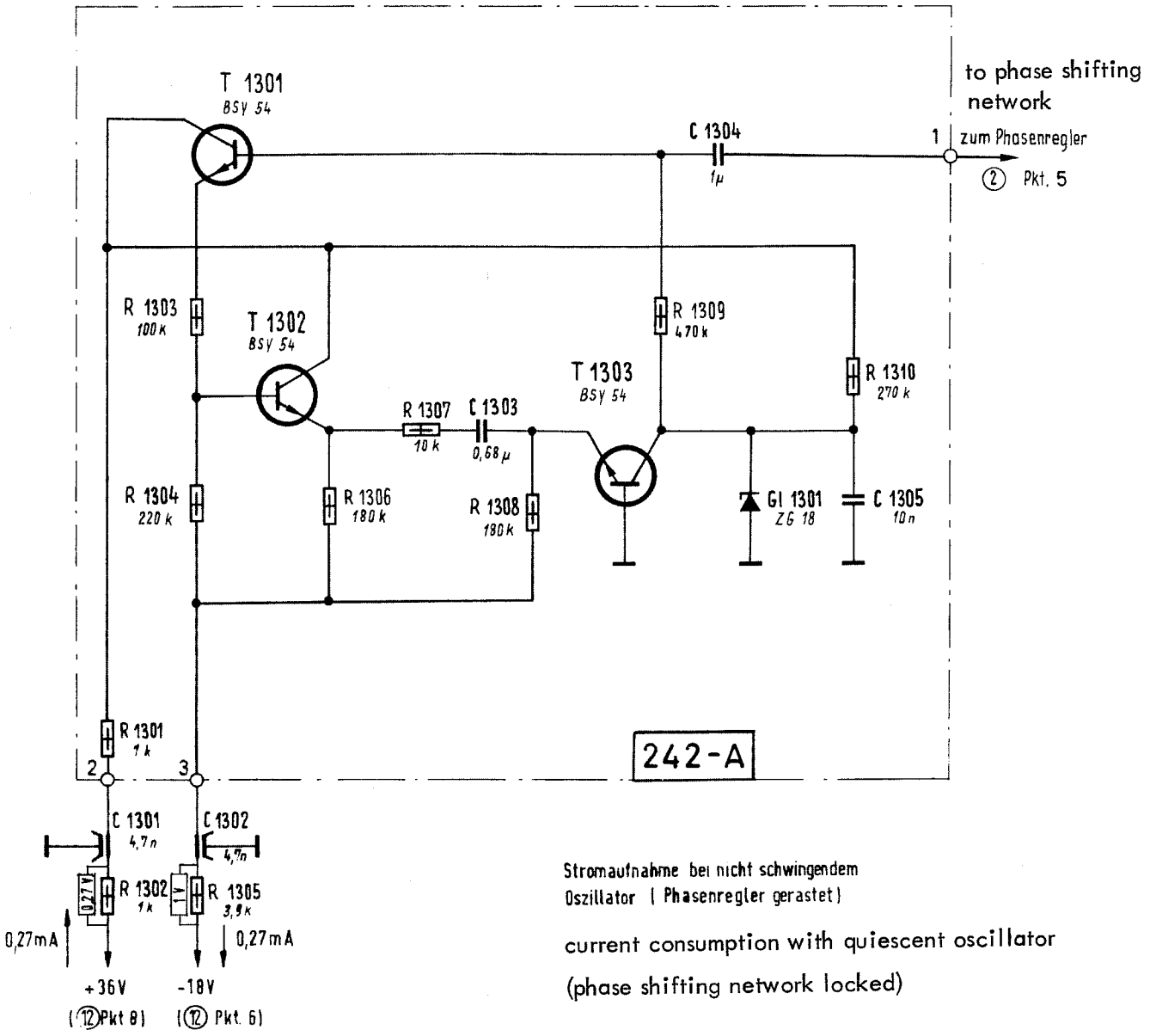


PS-5/BN 242

Spannungs-Verdrosselung (12)

(Voltage Filter Network)


242-A
T 1302
1
R 1306
R 1307
R 1304
T 1301
R 1303
C 1304
3
R 1301
R 1310
C 1303
R 1309
R 1308
C 1305
GI 1301
2
T 1303



Stromaufnahme bei nicht schwingendem Oszillator (Phasenregler gerastet)

current consumption with quiescent oscillator (phase shifting network locked)

PS-5/BN 242

Such-Oszillator (13)

(Hunting Oscillator)

Eingang
0,01 bis 36 MHz

Bu 101

Abschluß-Widerst
1/ωCe, 50...150Ω ①

Vor-Teiler 40 dB ①

Eichosz. lin. u. log
G ②
100 kHz

Katodenstufe
0...30 dB Vor-Teiler ①

St 101

Bu 301

Vor-Verstärker ③

Tiefpaß 36 MHz ④

Mischer I ⑤

Trägerfrequenz
v. RWO-5/BN 241

St 601

Begrenzer 69,01...105 MHz ⑥

69 MHz-Verstärker ⑤

Bandpaß 69 MHz ⑦

Trennstufe ⑧

Mischer II ⑧

Bandpaß 7,44 MHz ⑪

Mischer III ⑪

Bandpaß 600 kHz ⑫ ⑪

Mischer IV ⑫

Bandpaß 30 kHz ⑭
breit 3,5 kHz

Grunddämpfungs-
Ausgleich ⑭

Bandpaß 30 kHz ⑭
schmal 500 Hz

Oszillator 61,56 MHz ⑨
G

Jmpulsformer | Phasenvergleich ⑩

3 x
6,84 MHz

Oszillator 6,84 MHz ⑪

Jmpulsformer | Phasenvergleich ⑫

3 x
570 kHz

Quarz-Oszillator ⑫
570 kHz

Jmpulsformer | Phasenvergleich ⑬

10 kHz Rechteck
von RWO-5/BN 241

St 1301

Jnstrument ein
Meßlinie

J 1901

Bu 1601
Wobbel - Ausgang

Bu 1602/1
Gleichspannungs-Ausgang
Ri = 10 kΩ

Bu 1602/2
30 kHz - Ausgang
Ri = 600 Ω

Bu 1602/3
Hörer - Ausgang

Bu 1603
Anzeige - Dehner (AZD-1)

Gleichrichter ⑯

Demod.+Mischer ⑯

Tiefpaß 3 kHz ⑯

Umsetzoszillator für Hörer
28, 29, 31, 32 kHz
G ⑰

Gleichrichter ⑯

Eichen log
▼ bl
⑯

Gleichrichter ⑯

Logarithm.-Diode ⑯

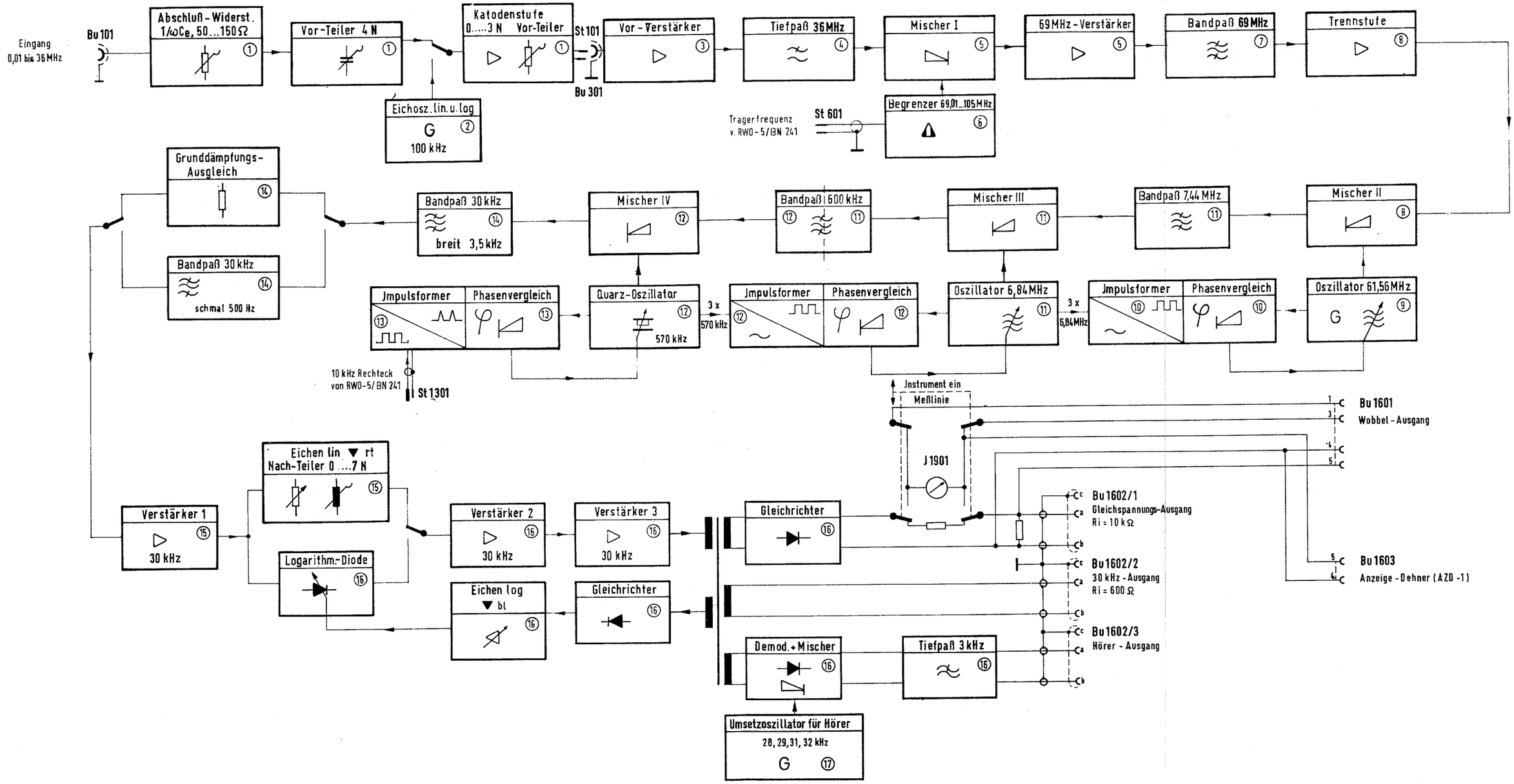
Verstärker 2 ⑯
30 kHz

Verstärker 3 ⑯
30 kHz

Eichen lin ▼ rt
Nach-Teiler 0...70 dB ⑮

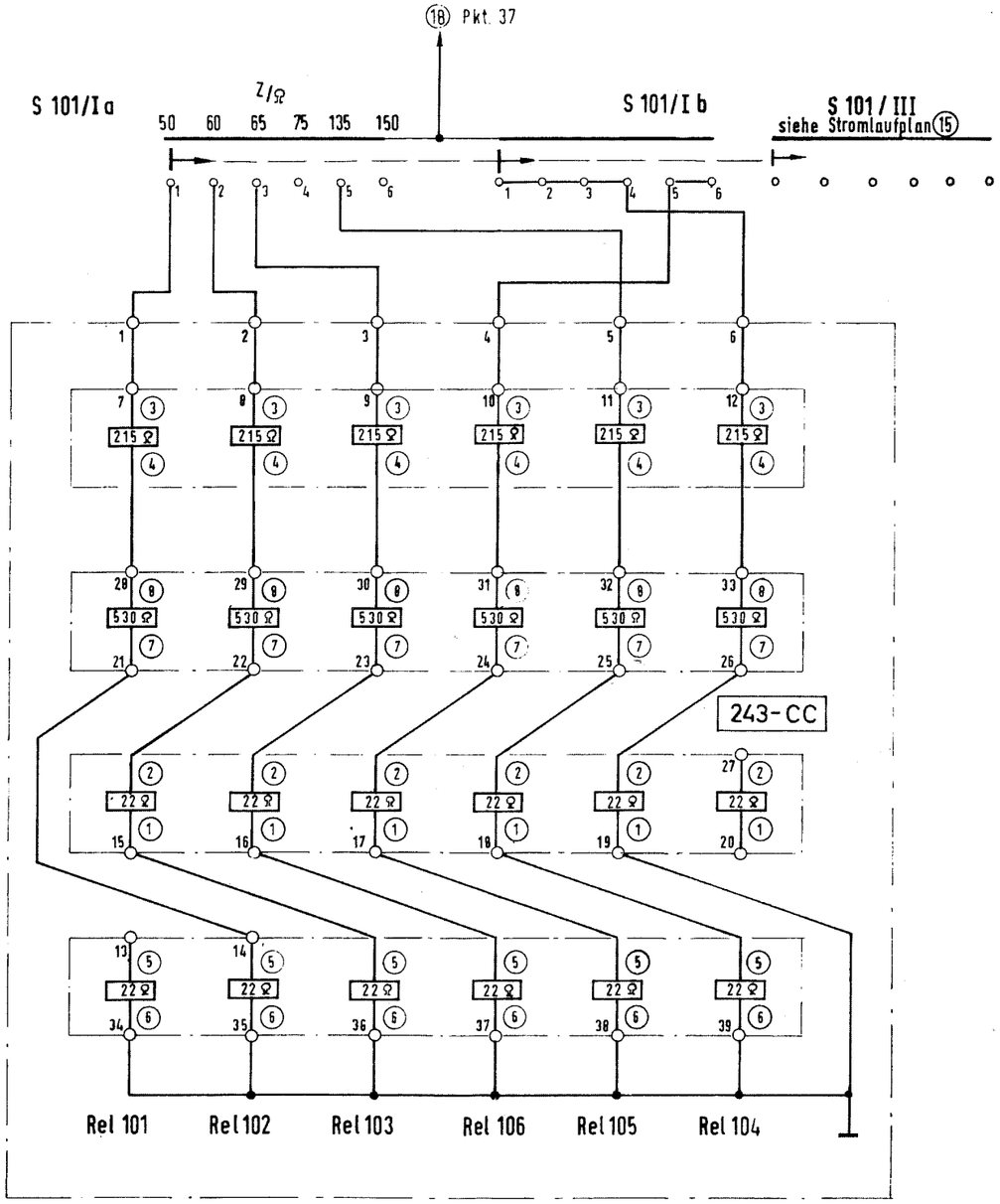
Verstärker 1 ⑮
30 kHz

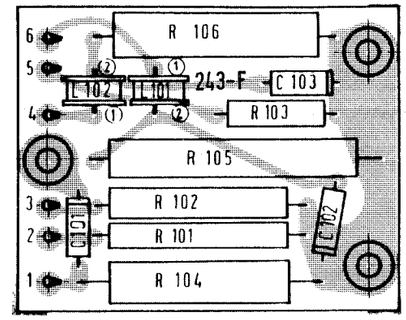
PM-5/BN 243
Blockschaltplan dB

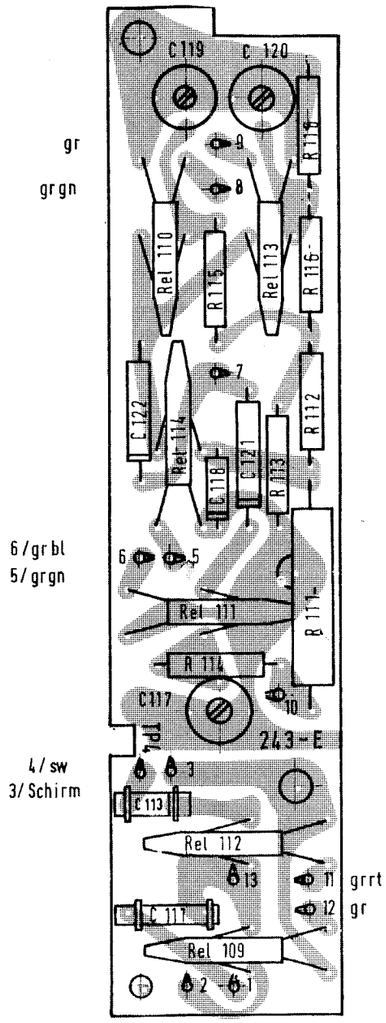


PM-5/BN 243/1

Blockschaltplan Np


⑱ Pkt. 37
S 101/I a
Z/Ω
50 60 65 75 135 150
S 101/I b
S 101 / III
siehe Stromlaufplan ⑮
243-CC
Rel 101
Rel 102
Rel 103
Rel 106
Rel 105
Rel 104


R 106
243-F
C 103
R 103
R 105
R 102
R 101
R 104


C119
C 120
gr
grgn
6/grbl
5/grgn
Rel 111
R 114
C117
243-E
4/sw
3/Schirm
C 113
Rel 112
grrt
gr
C 117
Rel 109

Input

Eingang

0,01 bis 36MHz

Bu 101

rel 101

rel 102

rel 103

rel 104

rel 105

rel 106

R 104 150

C 101 3p

R 101 300

R 102 487,5

L 101

R 105 75

C 102 33p

R 103 1,35k

L 102

R 106 150

C 103 27p

243-F

Abschluß-Widerstände

termination resistors

L103

C 105 4,7n

Rel 107

Rel 108

⑲ Pkt.48

⑲ Pkt.30

C 109 4,7n

Rö 101

(Heizung +6,3 V)

heater voltage + 6.3 V

⑲ Pkt 31

⑲ Pkt 33

⑲ Pkt. 32

C 112 4,7n

C 114 4,7n

C 115 4,7n

R 120 100

R 107 10 M

R 109 82 k

R 110 180

C 116 33p

130 V

R 117 100

Rö 101

E 810 F

R 108 33

12 V

40 mA

rel 107

C 111 1n

rel 108

C 107 8p

C 110 1n

rel 109

C 104 0,5/3p

C 108 0,5/3p

C 106 5p

40 dB - Vorteiler

40 dB pre-attenuator

rel 112

C 113 1n

Tp. 4

② Pkt.1

R 114 47

rel 111

C 117 3/10p

R 111 205,2

C 121 0,1µ

Tp. 7

St 101

③ Bu 301

rel 114

C 122 0,1µ

C 118 4p

R 112 64,8

R 115 39

rel 110

C 119 3/10p

R 116 201,6

rel 113

R 113 33,4

R 118 93,2

C 120 3/10p

243-E

Katodenstufe und 0... 30 dB -Vorteiler

cathode stage and 0 to 30 dB pre-attenuator

Rel 112

Rel 109

Rel 113

Rel 110

Rel 114

Rel 111

C 123 4,7n

C 124 4,7n

L104

C 125 4,7n

C 126 4,7n

C 127 4,7n

C 128 4,7n

⑲ Pkt.19

⑱ Pkt.24

⑲ Pkt.17

⑲ Pkt 16

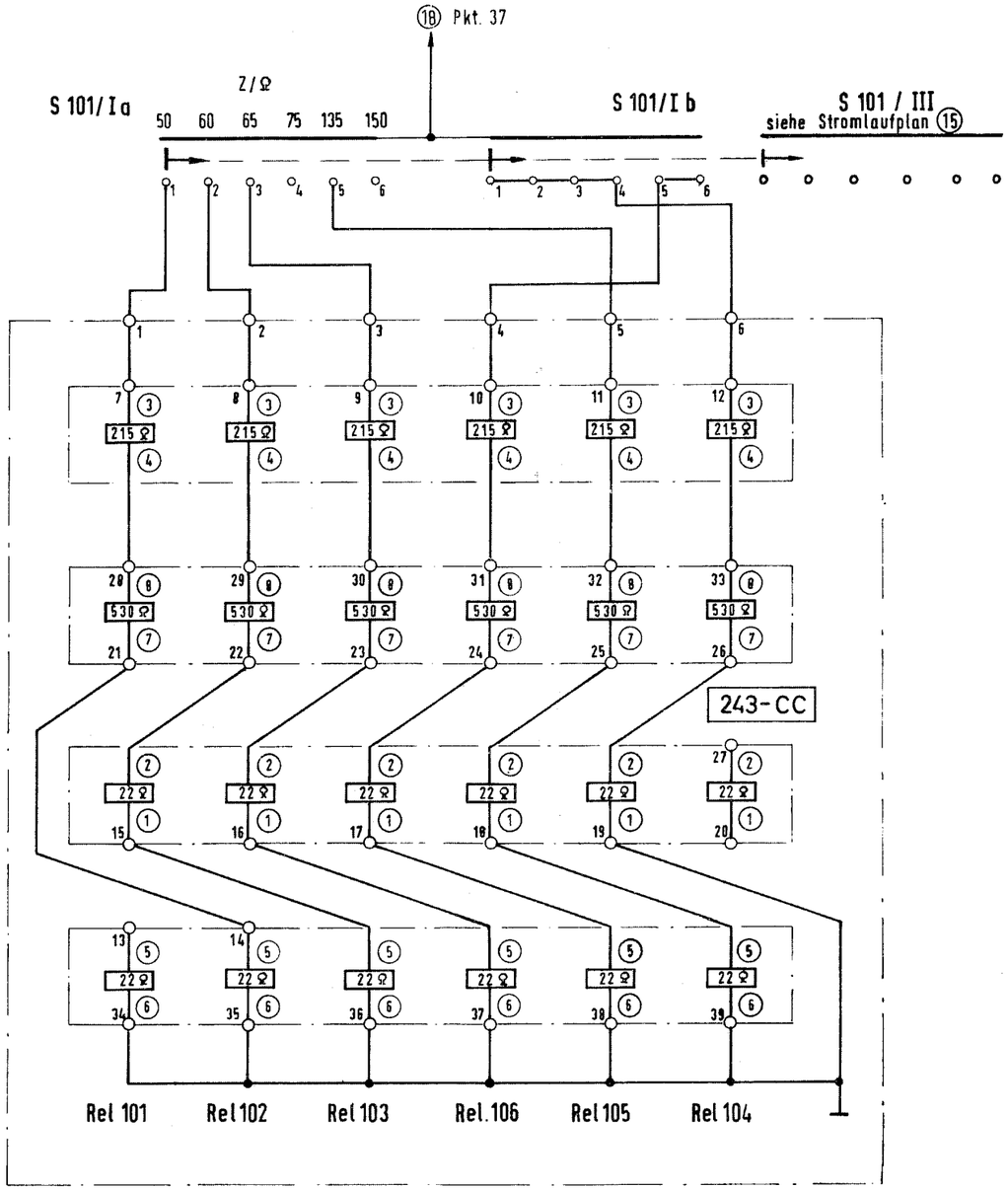
⑲ Pkt 14

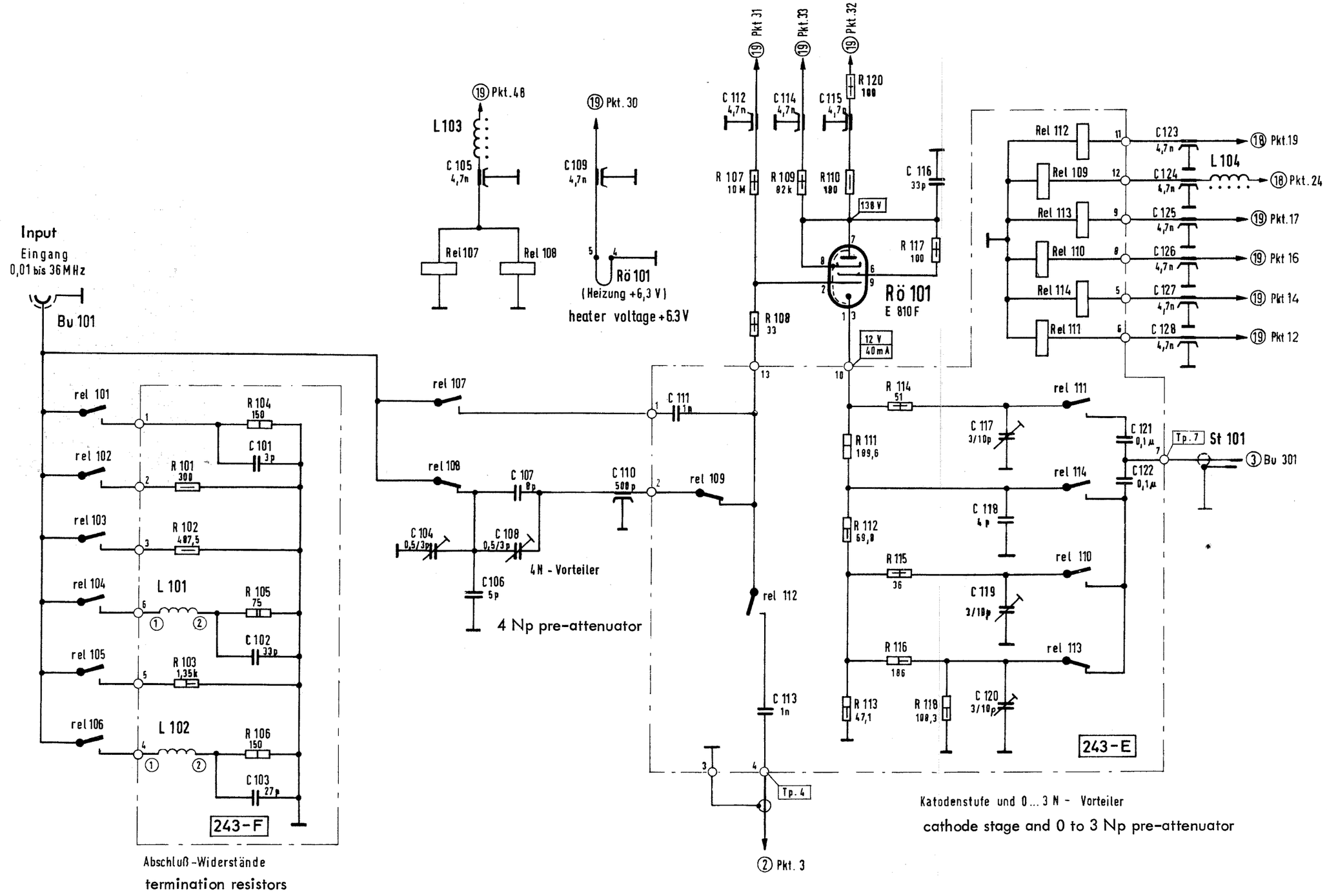
⑲ Pkt 12

PM-5/BN 243

Eingangsteil dB (1)

(Input Unit)

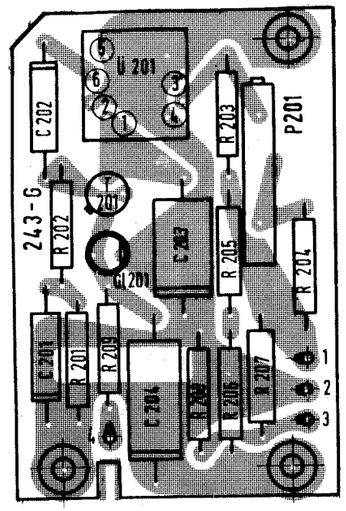

(18) Pkt. 37
S 101/I a
Z/Ω
50 60 65 75 135 150
S 101/I b
S 101 / III
siehe Stromlaufplan (15)
1 2 3 4 5 6
1 2 3 4 5 6
7 8 9 10 11 12
215 Ω
21 22 23 24 25 26
530 Ω
243-CC
15 16 17 18 19 20
27
22 Ω
13 14
34 35 36 37 38 39
Rel 101
Rel 102
Rel 103
Rel. 106
Rel 105
Rel 104



PM-5/BN 243/1

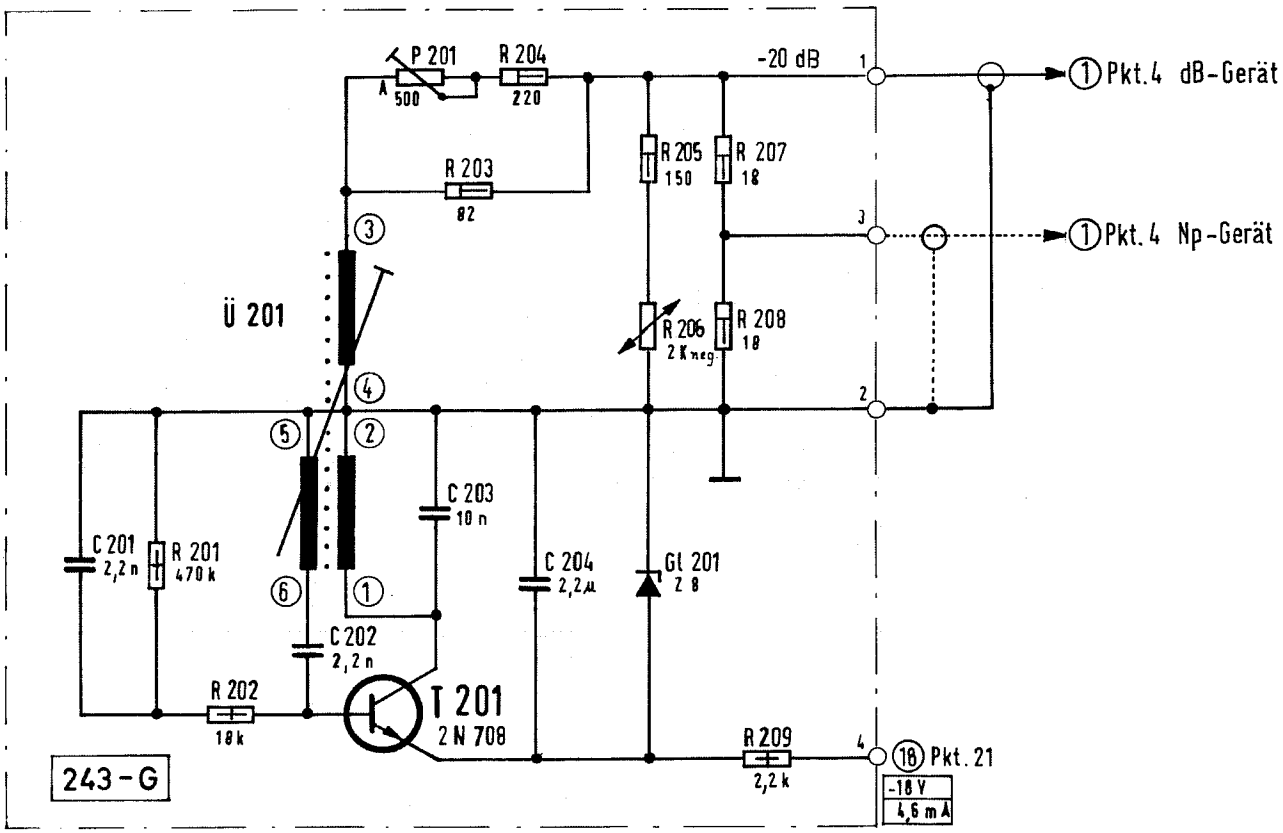
Eingangsteil Np (1)

(Input Unit)



Neper Ausführung:

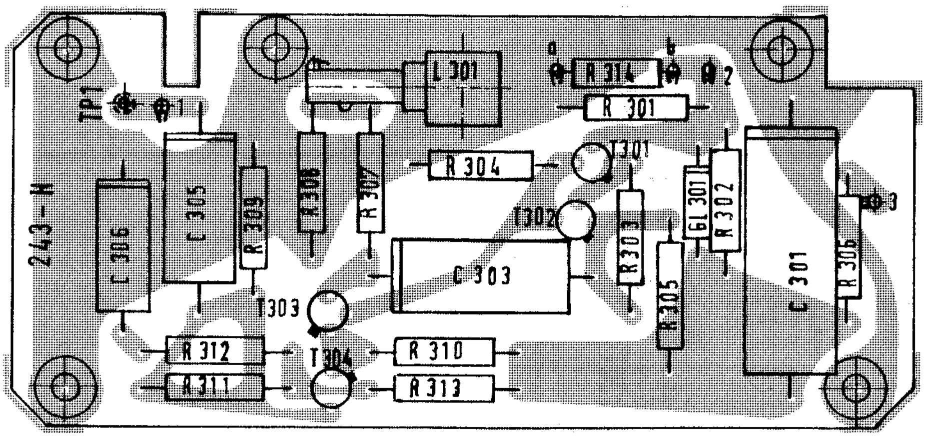
1	sw	frei
2	Schirm	Schirm
3	frei	sw



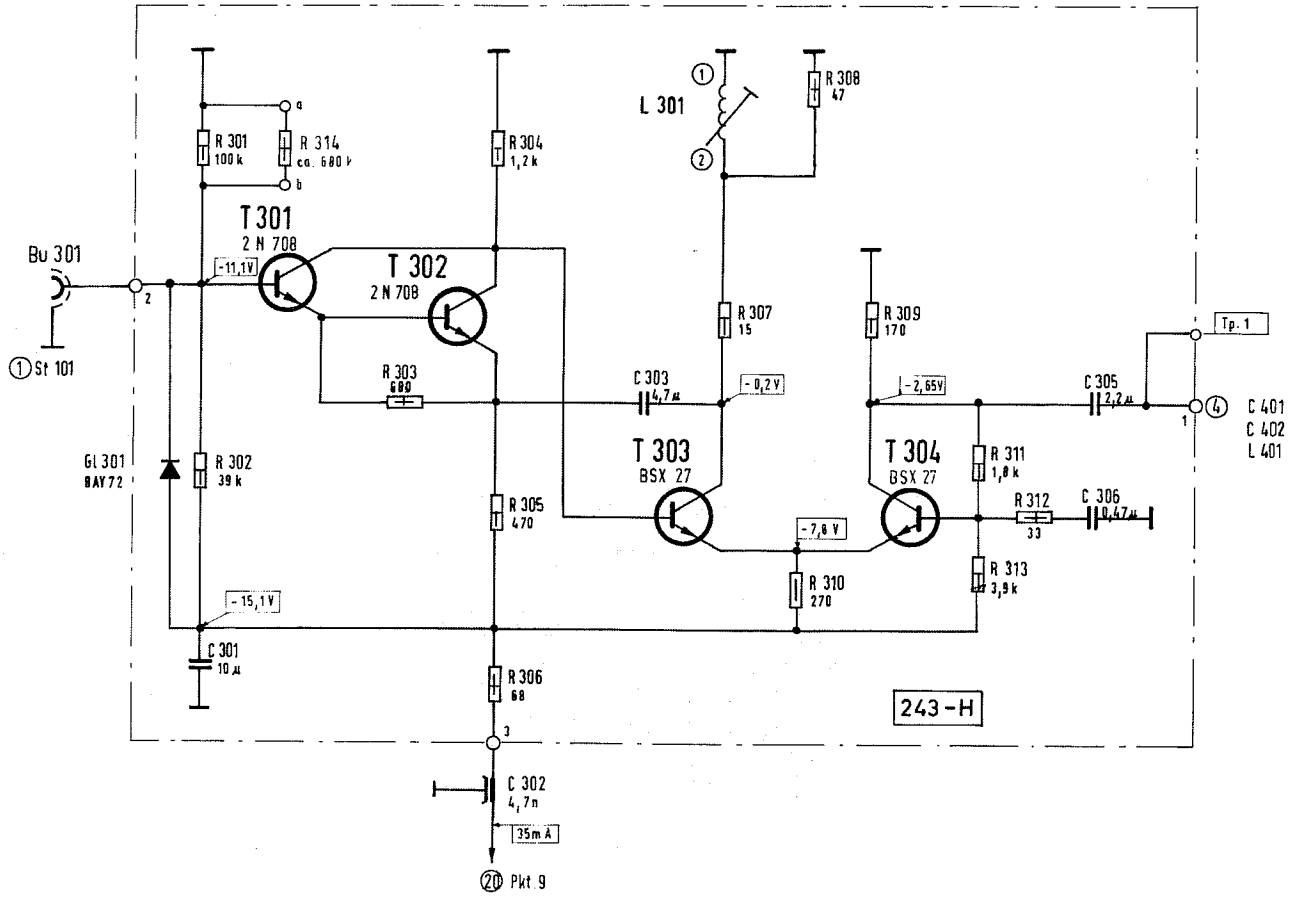
PM-5/BN 243 und 243/1

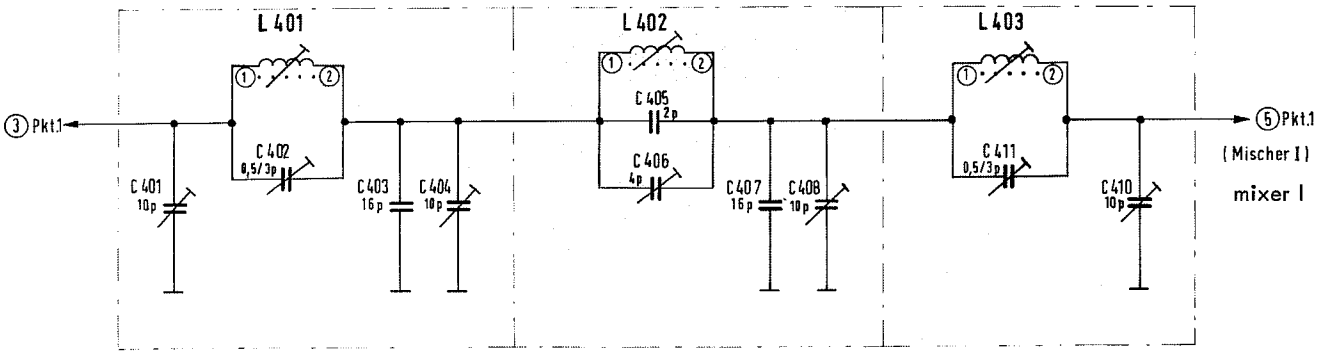
Eichoszillator 100 kHz dB, Np (2)

(Cal. Oscillator)



243-N
TP1
1
2
3
a
b
L 301
R 314
R 301
R 304
T301
T302
T303
T304
C 306
C 305
R 309
R 308
R 307
C 303
R 303
GL 301
R 302
R 305
C 301
R 306
R 312
R 311
R 310
R 313





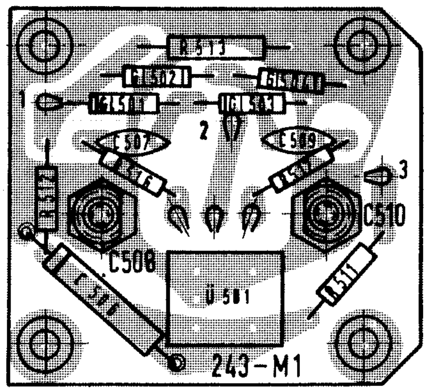
PM-5/BN 243

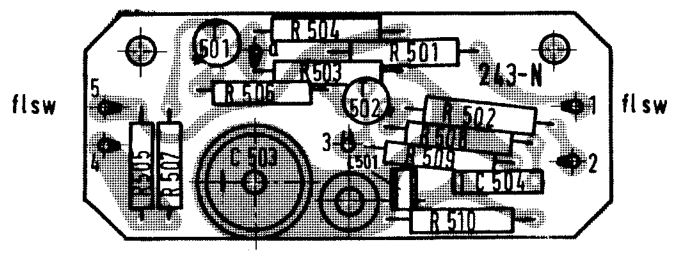
Vorverstärker 10 kHz bis 36 MHz (3)

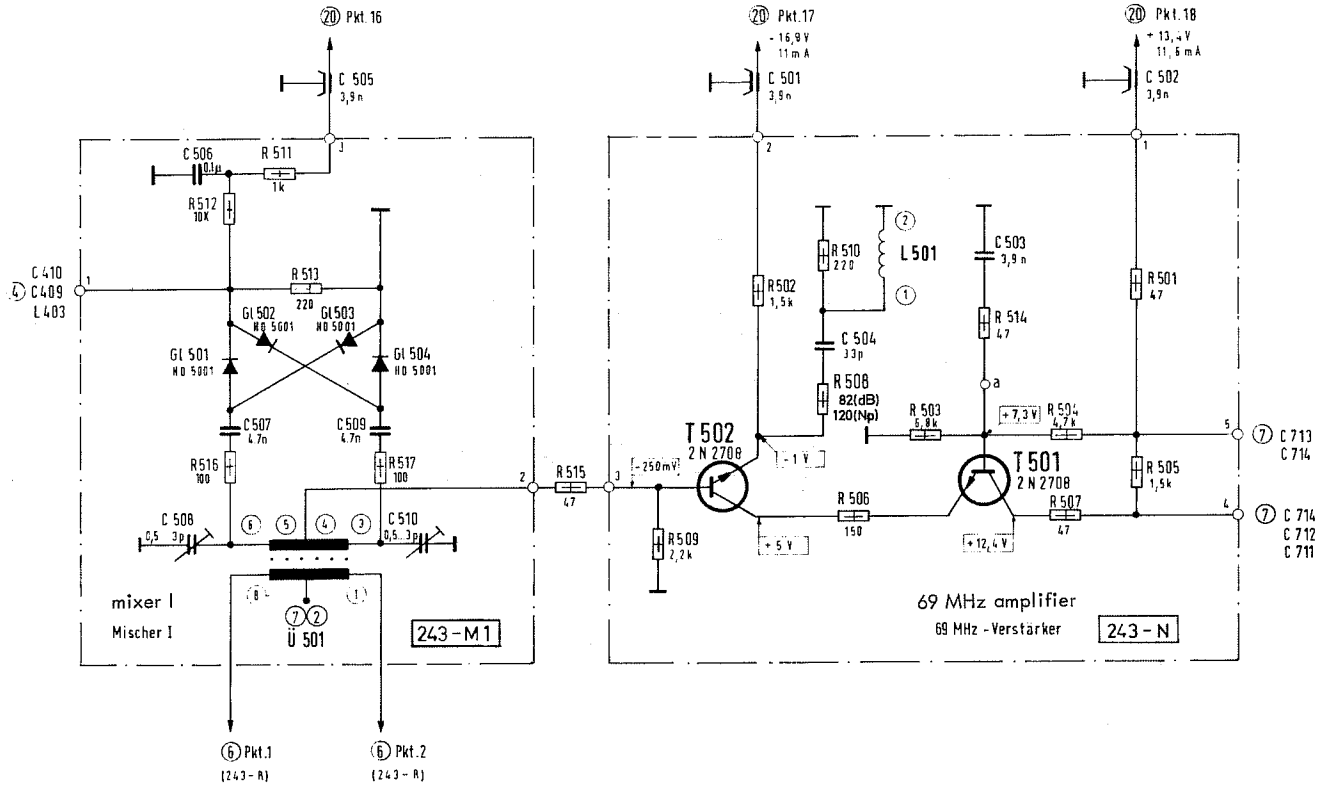
(Pre-Amplifier)

Tiefpaß 36 MHz (4)

(Low Pass Filter


R 513
1
2
3
C507
C509
C508
C510
Ü 501
R511
243-M1

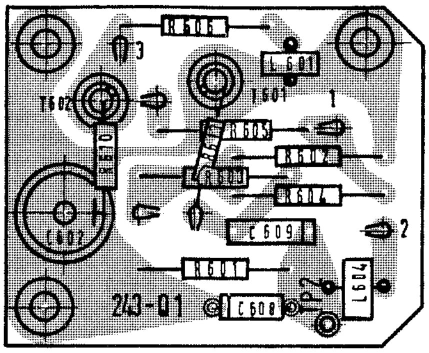

flsw
flsw
R 504
R 501
R503
R 506
501
502
243-N
R 502
R 508
R 509
C501
C 504
C 503
R 505
R 507
R 510
1
2
3
4
5



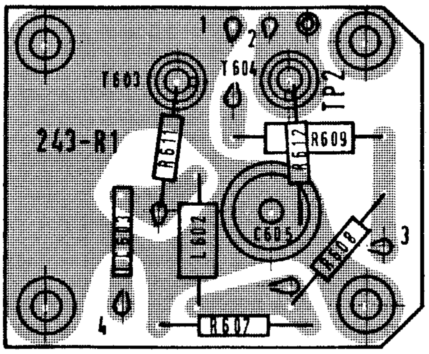
PM-5/BN 243 und 243/1

Mischer I und 69-MHz-Verstärker dB, Np (5)

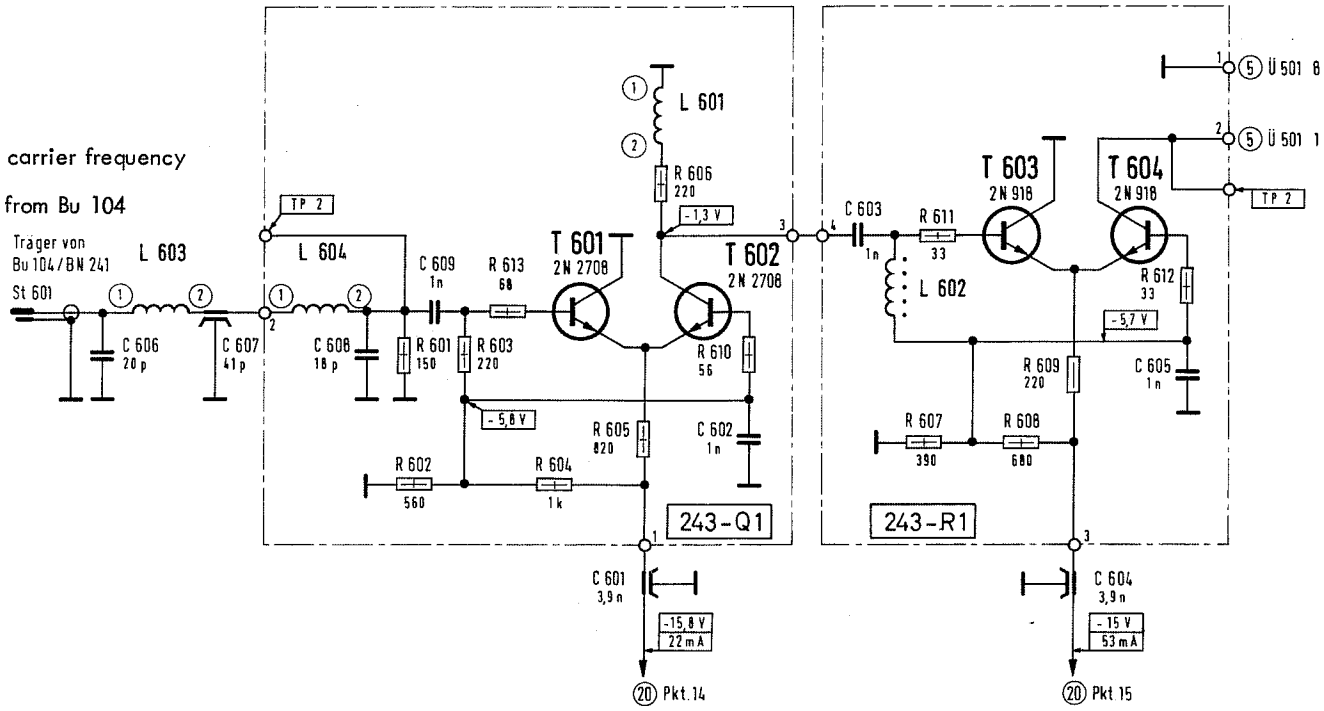
(Mixer I and 69 MHz-Amplifier)



R606
L601
T602
T601
R605
R602
R610
R604
C609
C602
R601
L604
243-Q1
C608



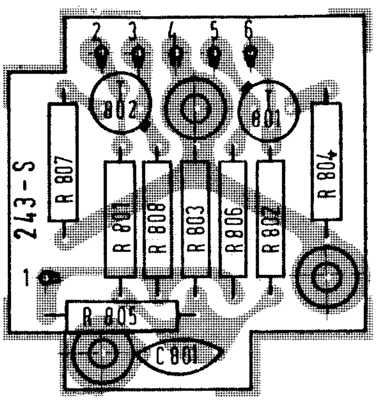
T603
T604
TP2
243-R1
R611
R612
R609
L602
C605
R608
R607

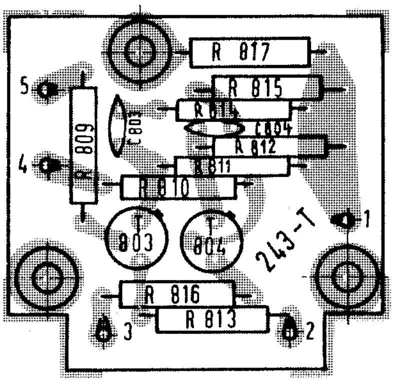


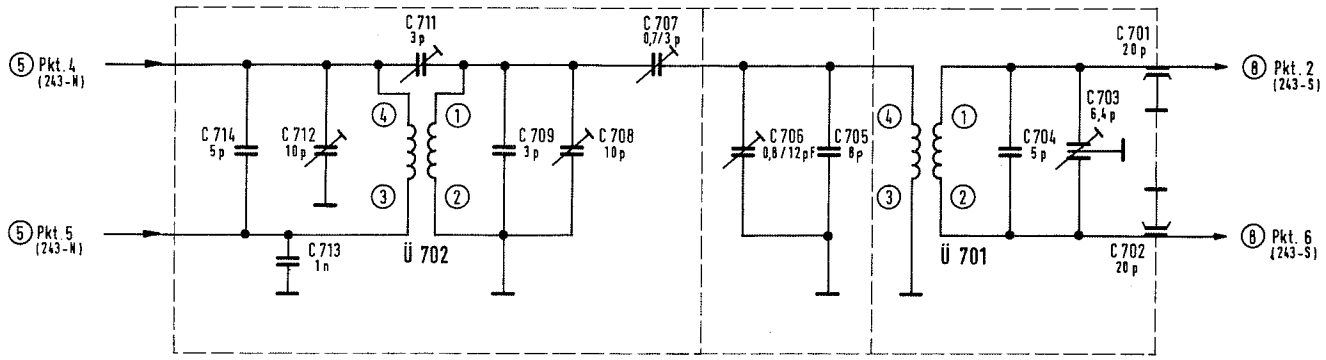
PM-5/BN 243

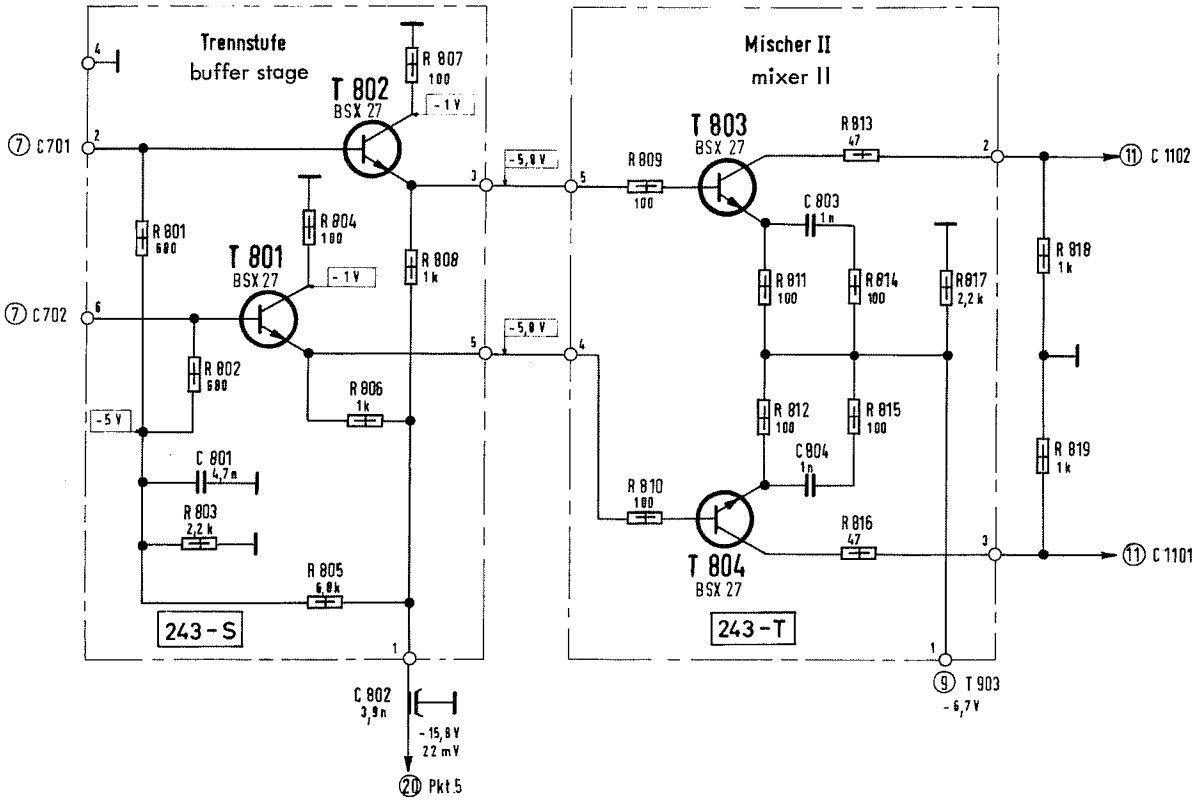
Begrenzer 69,01 bis 105 MHz (6)

(Amplitude Limiter)


2
3
4
5
6
T 802
T 801
243-S
R 807
R 801
R 808
R 803
R 806
R 802
R 804
1
R 805
C 801


R 817
R 815
5
R 809
C 803
C 804
R 812
R 811
4
R 810
T 803
T 804
243-T
1
R 816
R 813
3
2





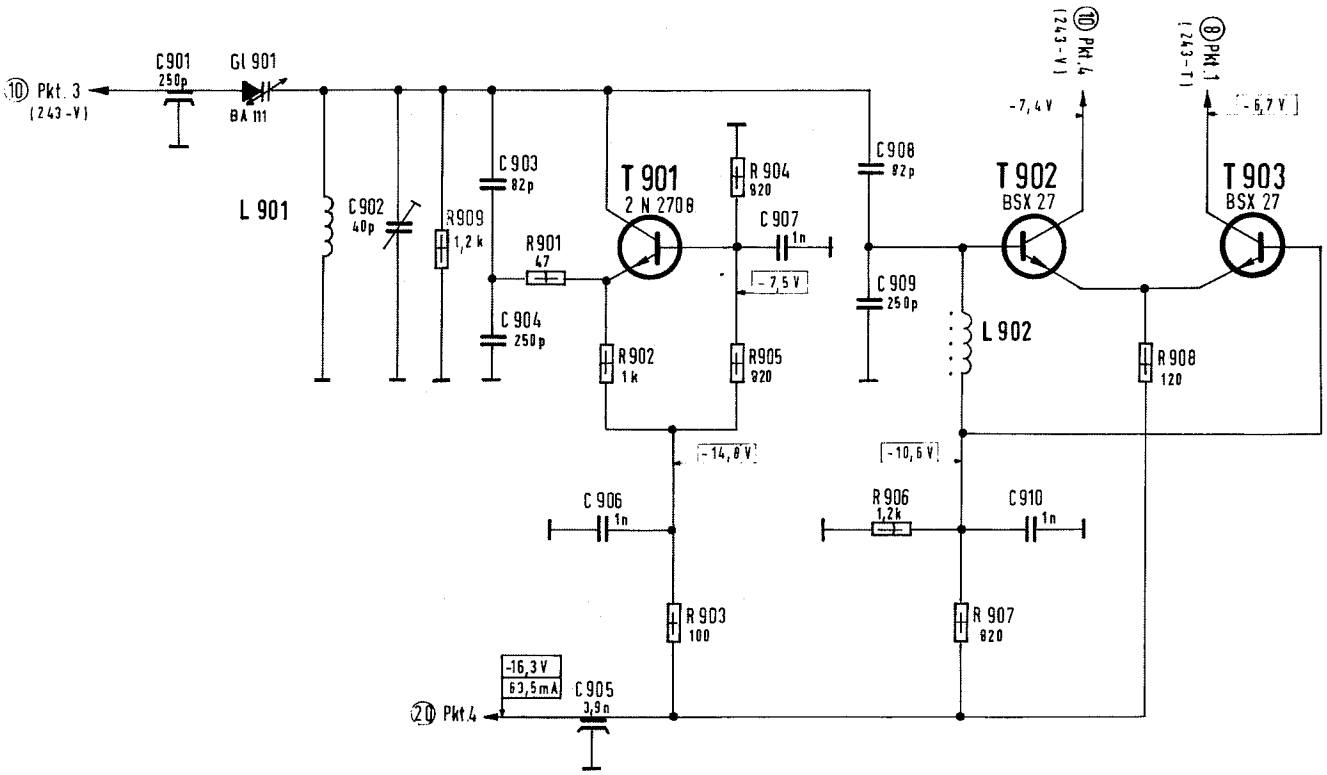
PM-5/BN 243

Bandpaß 69 MHz (7)

(Band Pass Filter)

Mischer II (8)

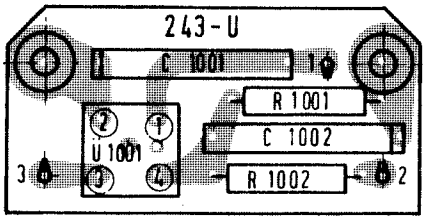
(Mixer II)

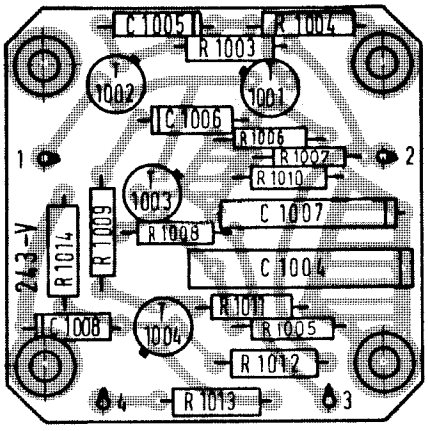


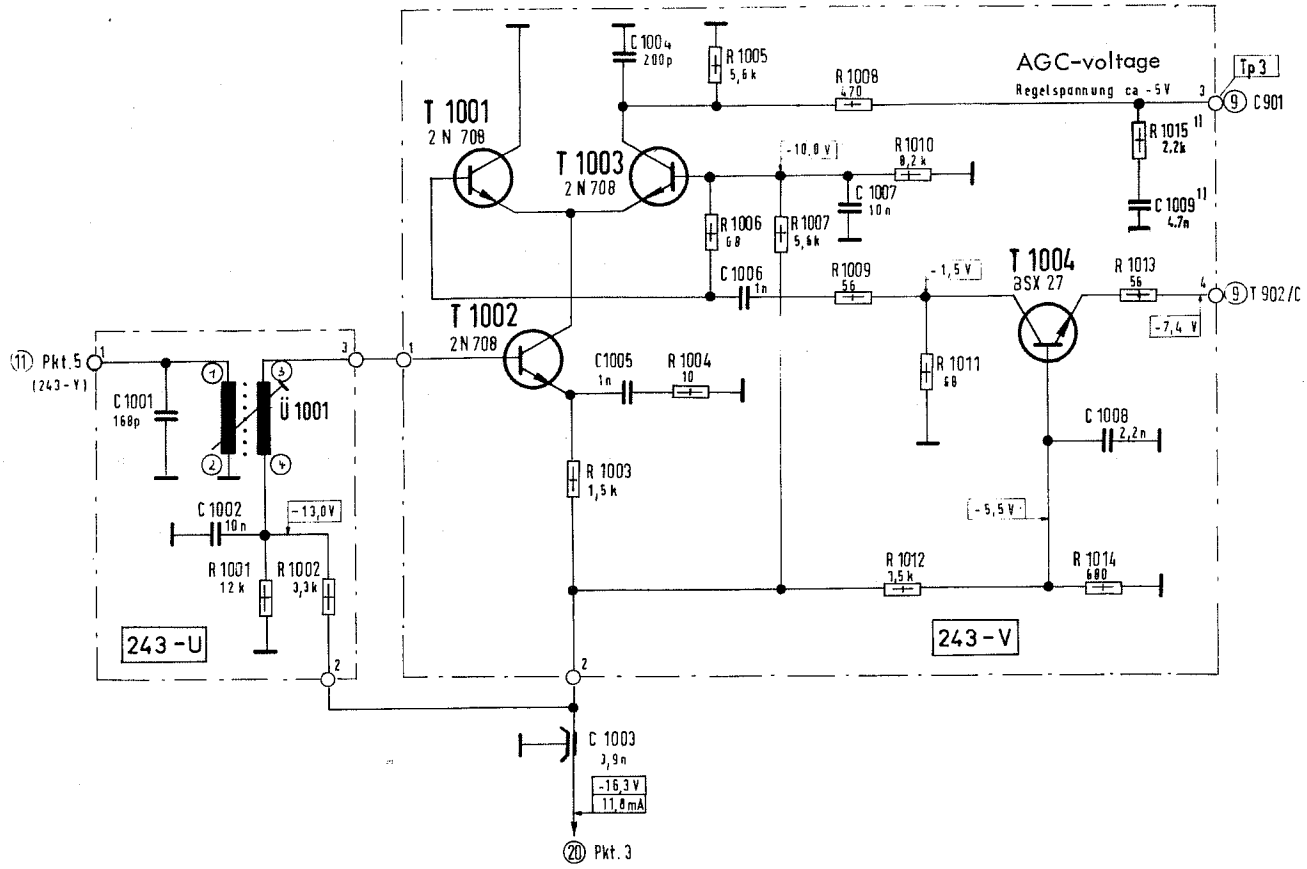
PM-5/BN 243

Oszillator und Begrenzer 61,56 MHz (9)

(Oscillator and Limiter)


243-U
C 1001
1
R 1001
C 1002
U 1001
2
3
R 1002
2

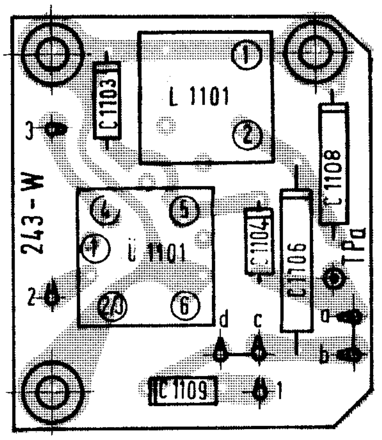

C 1005
R 1004
R 1003
1002
1001
C 1006
R 1006
1
R 1007
2
R 1010
1003
C 1007
R 1008
R 1009
R 1014
243-V
C 1004
R 1011
C 1008
1004
R 1005
R 1012
4
R 1013
3

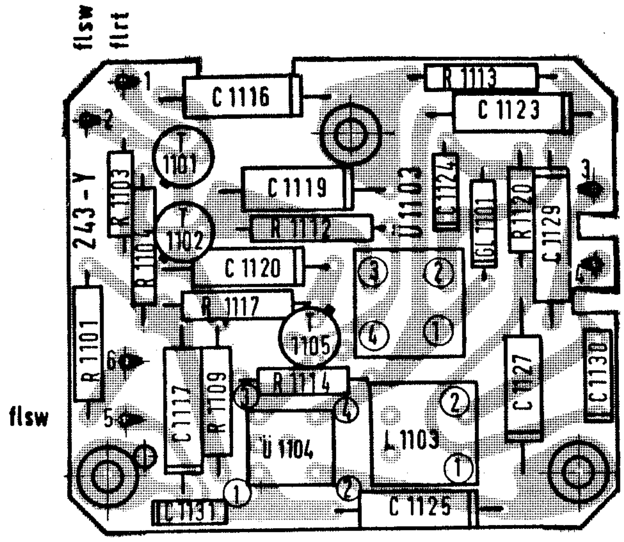


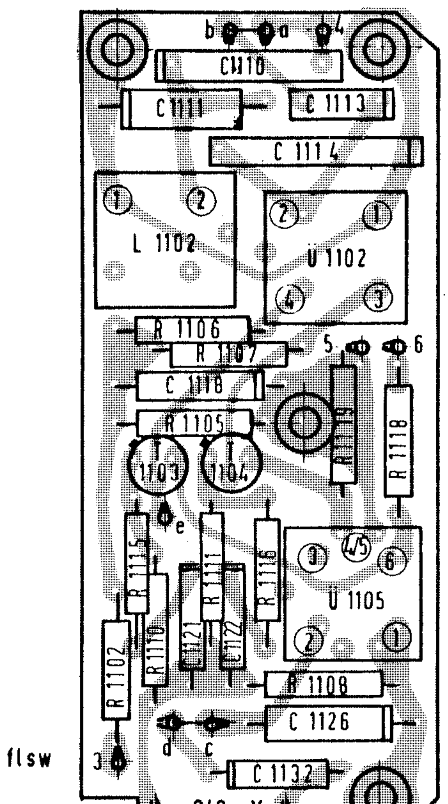
PM-5 /BN 243

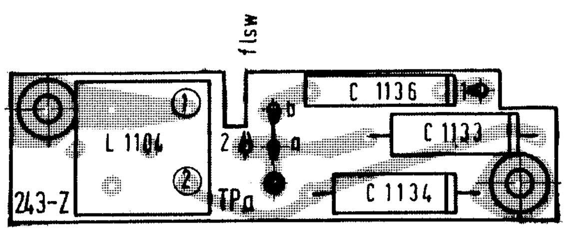
Rasteinrichtung 20,52/61,56 MHz (10)

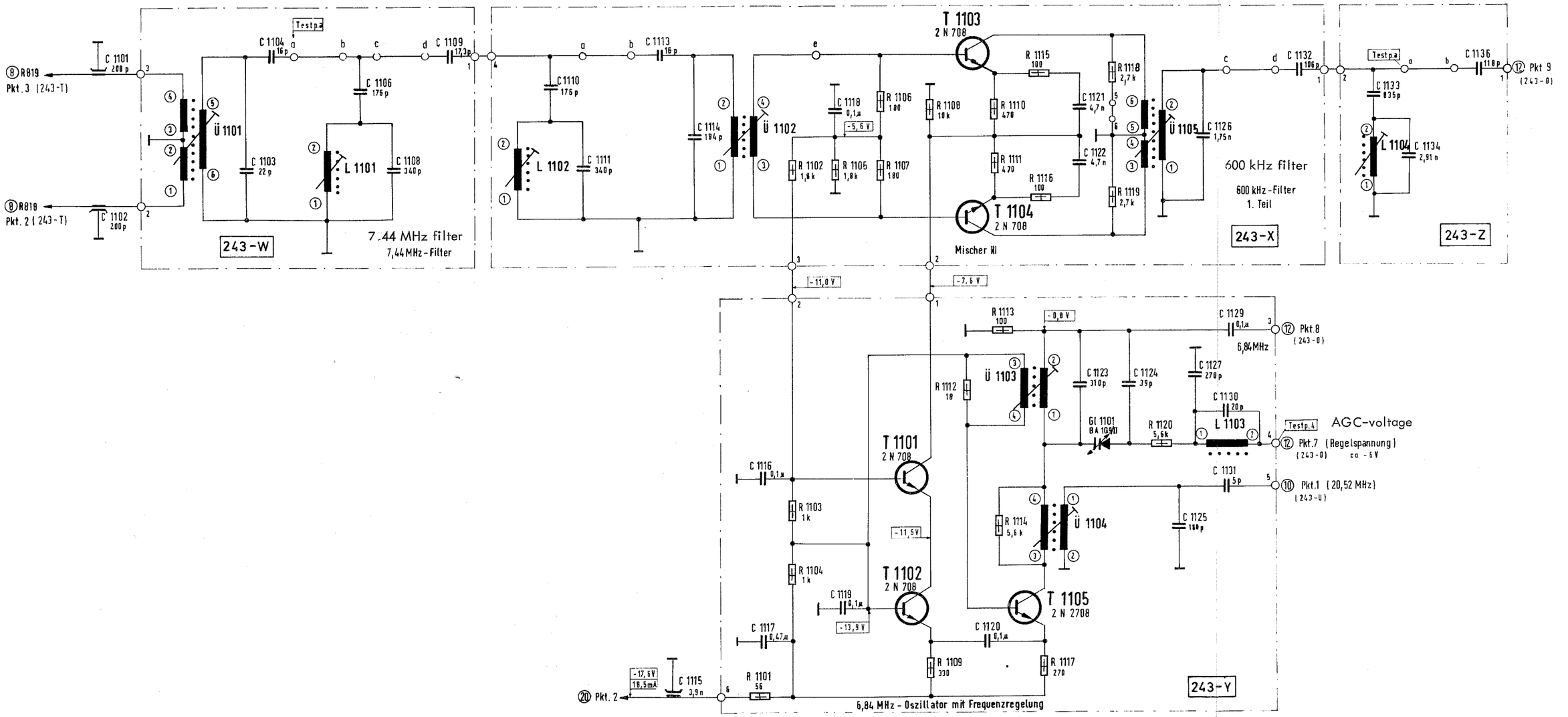
(Synchronizing Unit)


243-W
L 1101
C 1103
C 1108
C 1104
C 1106
Ü 1101
C 1109
TPa
a
b
c
d
1
2
3


flsw
flrt
243-Y
C 1116
R 1113
C 1123
T 1101
T 1102
T 1105
C 1119
R 1112
C 1120
R 1117
R 1114
R 1101
R 1103
R 1104
R 1109
C 1117
C 1124
GL 1101
R 1120
C 1129
Ü 1103
Ü 1104
L 1103
C 1127
C 1130
C 1131
C 1125
1
2
3
5
6


243 - X
C 1110
C 1111
C 1113
C 1114
L 1102
Ü 1102
R 1106
R 1107
C 1118
R 1105
R 1118
T 1103
T 1104
R 1115
R 1110
R 1111
C 1121
C 1122
R 1116
R 1102
Ü 1105
R 1108
C 1126
C 1132
flsw
flrt
flsw
a
b
c
d
e
1
2
3
4
5
6


flsw
243-Z
L 1104
C 1136
C 1133
C 1134
TPa
a
b
2

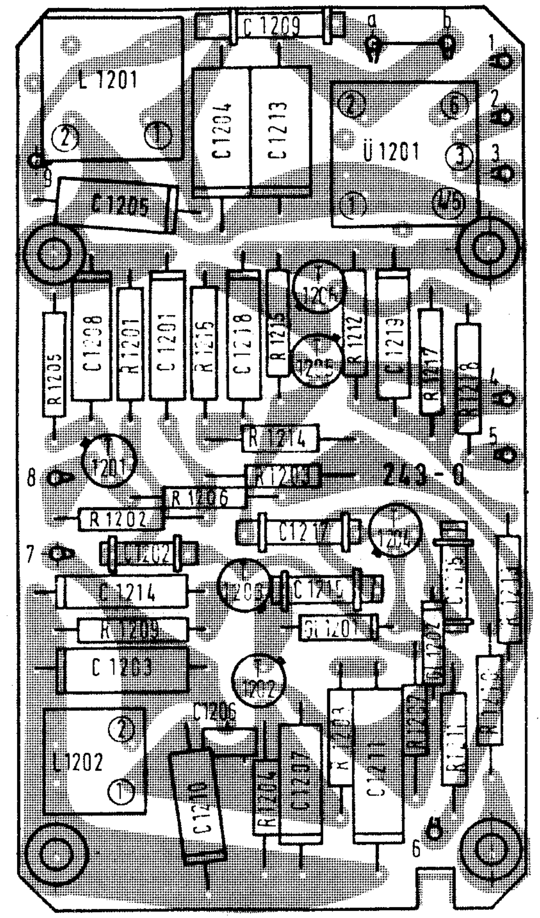


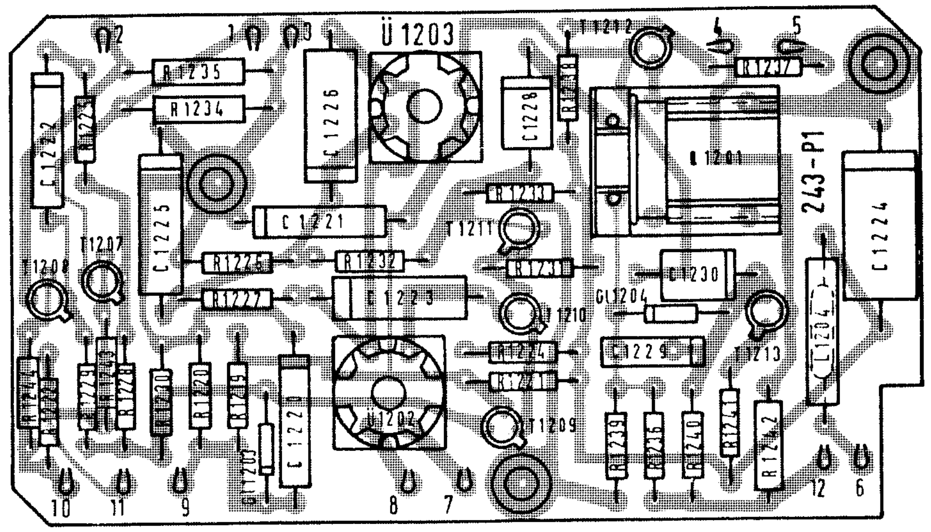
6.84 MHz oscillator with frequency control

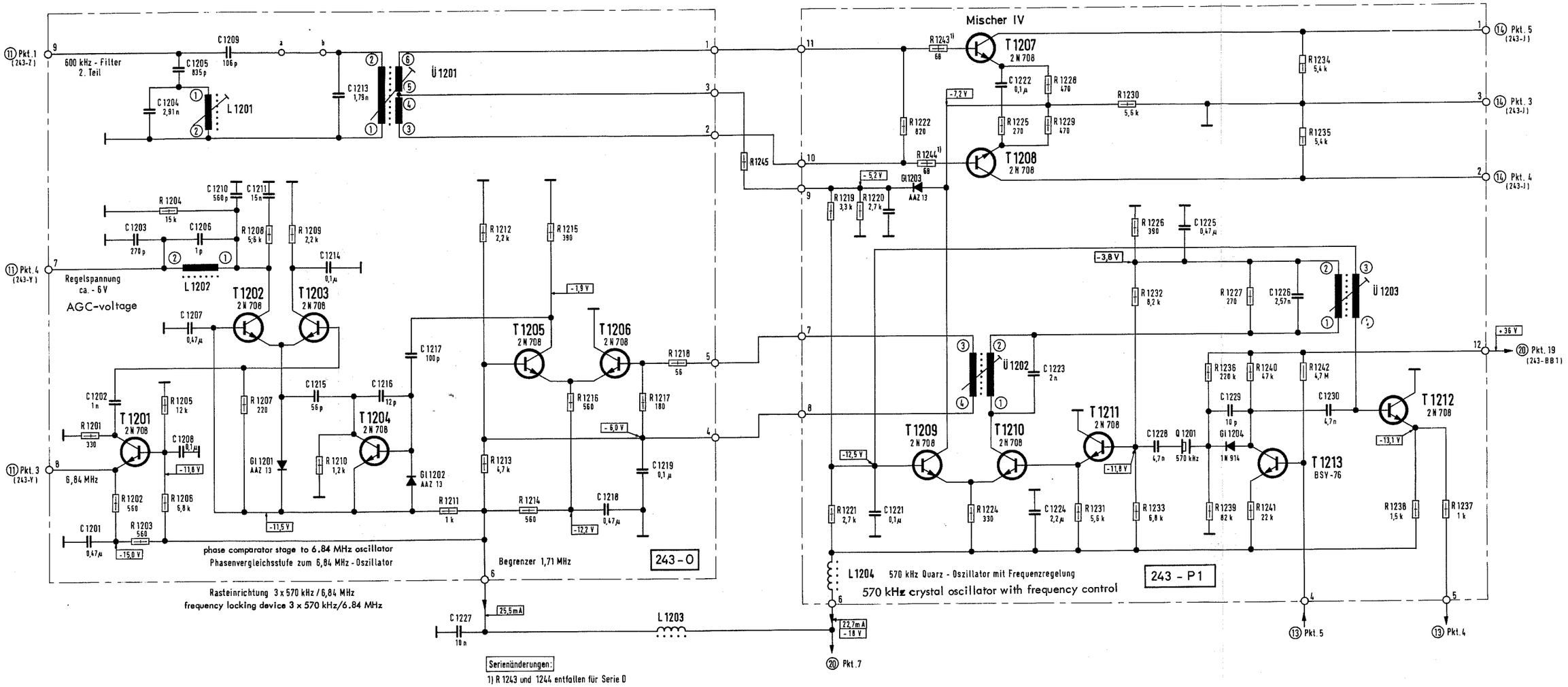
PM-5/BN 243

Umsetzung 7,44 MHz/600 kHz (11)

(Frequency Converter)


C 1209
L 1201
C 1204
C 1213
Ü 1201
C 1205
R 1205
C 1208
R 1201
C 1201
C 1218
R 1212
C 1219
R 1217
T 1201
R 1214
R 1203
243-0
R 1206
R 1202
C 1217
C 1202
C 1214
C 1215
R 1209
C 1203
T 1202
C 1206
L 1202
C 1210
R 1204
C 1207
C 1211

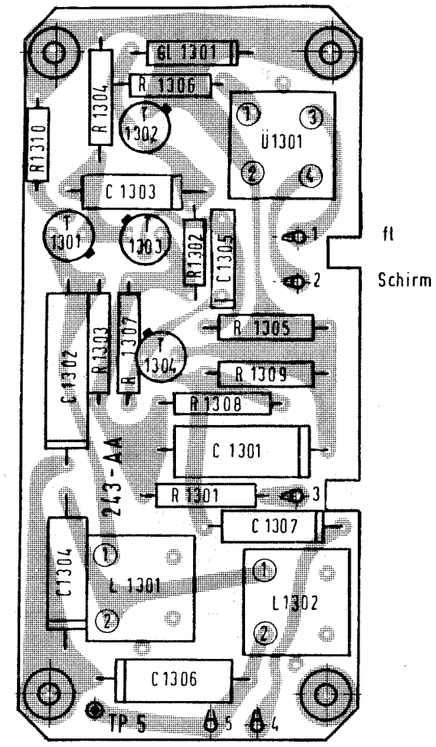

Ü 1203
T 1212
R 1235
R 1234
R 1237
C 1222
C 1226
C 1228
R 1238
C 1225
C 1221
R 1233
243-P1
C 1224
T 1211
T 1208
T 1207
R 1226
R 1232
R 1231
C 1230
R 1227
C 1223
T 1210
Gl 1204
R 1224
C 1229
T 1213
R 1221
R 1230
R 1220
R 1219
C 1220
Ü 1202
T 1209
R 1239
R 1240
R 1242
L 1204
Gl 1203

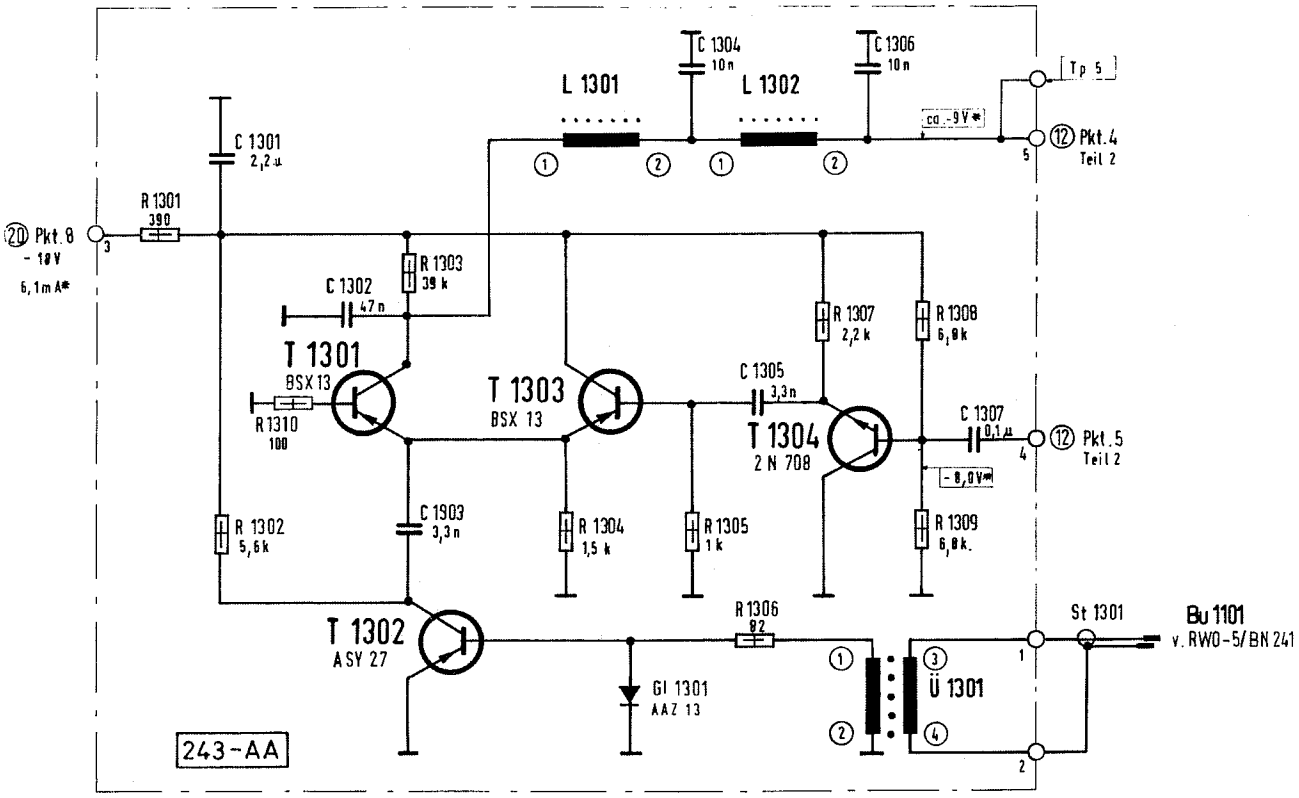


Serienänderungen:
1) R 1243 und 1244 entfallen für Serie D

Modifications within the production run series:
1) Serial D: R 1243 and R 1244 inapplicable

PM-5/BN 243
Umsetzung 600 kHz/30 kHz (12)
(Frequency Converter)


GL 1301
R 1306
R 1304
1302
Ü1301
R1310
C 1303
1301
1303
R1302
C1305
fl
Schirm
2
R 1305
C1302
R1303
R 1307
1304
R 1309
R 1308
C 1301
243-AA
R 1301
3
C 1307
C1304
L 1301
L 1302
C 1306
TP 5
5
4

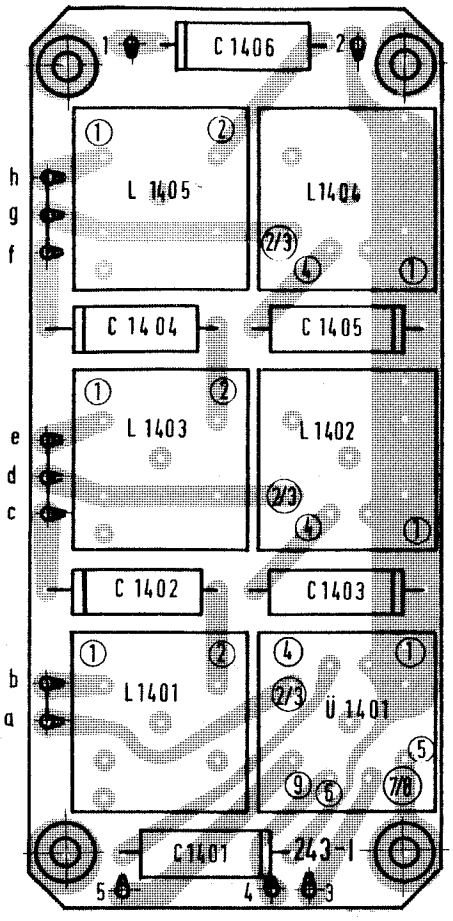


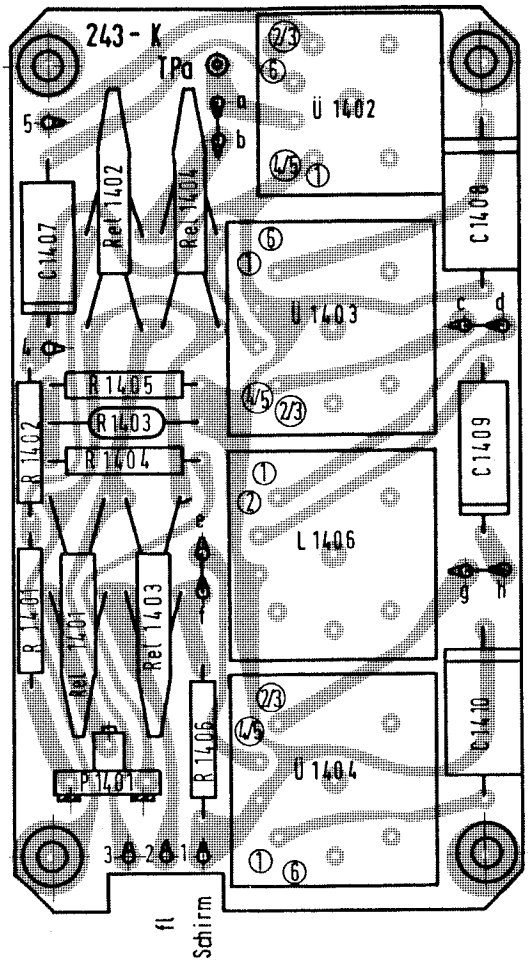
* Angaben mit 10 kHz - Rechteck values rated to 10 kHz square wave voltage modulation

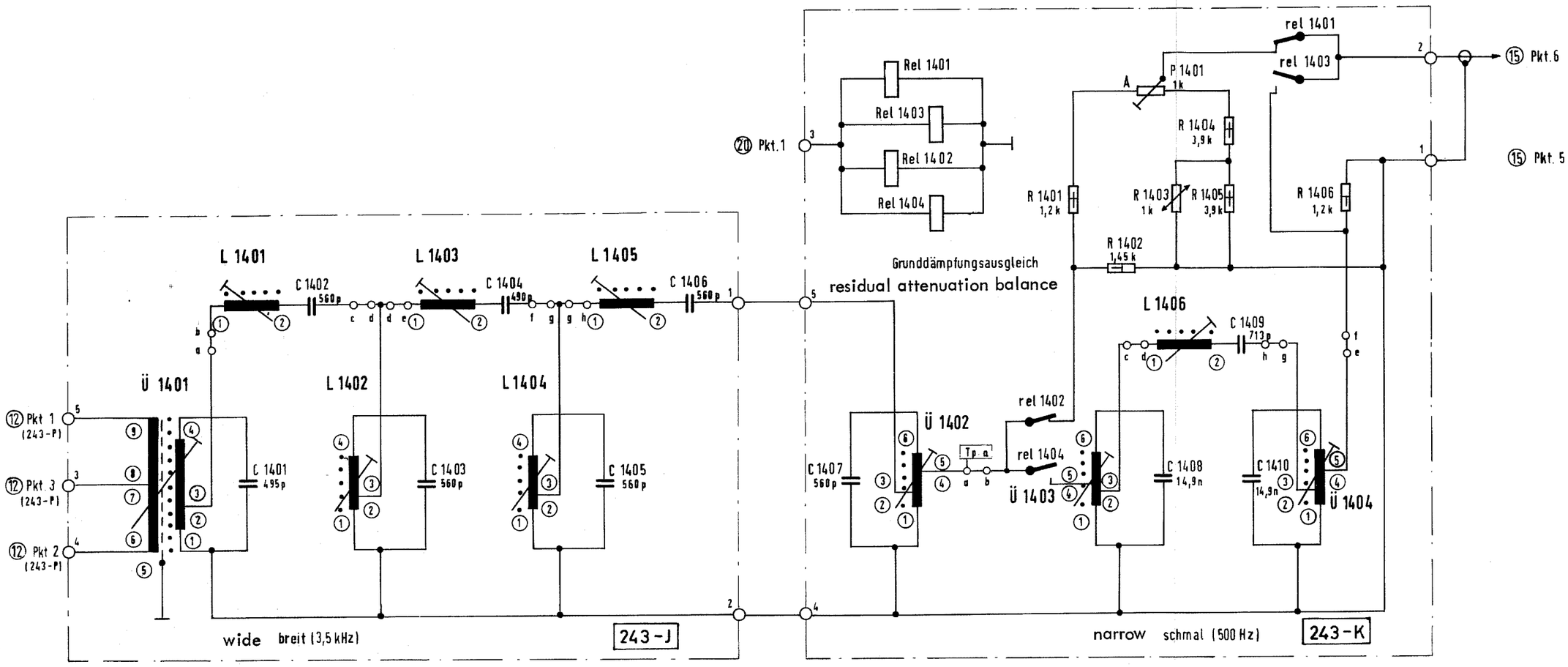
PM-5/BN 243

Rasteinrichtung 10/570 kHz (13)

(Synchronizing Unit)


C 1406
L 1405
L1404
C 1404
C 1405
L 1403
L 1402
C 1402
C1403
L1401
Ü 1401
C1401
243-I

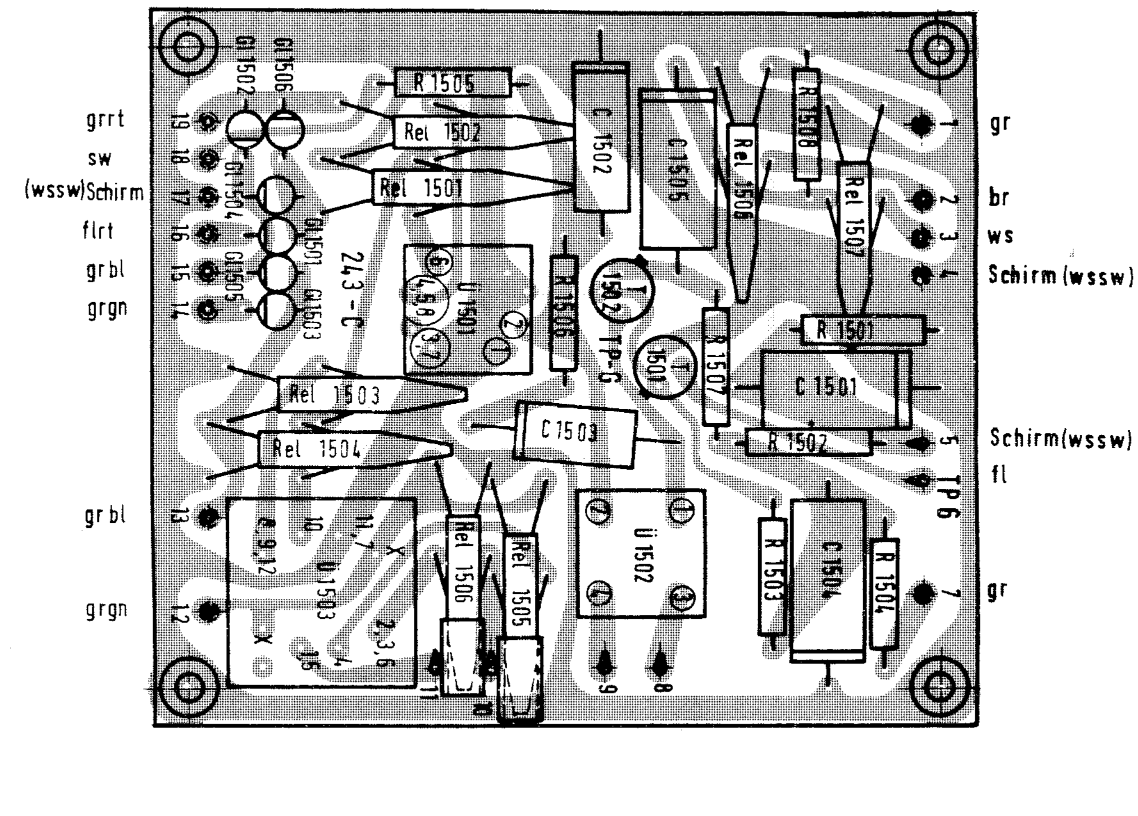

243 - K
TPa
Ü 1402
C1407
Ref 1402
Ref 1404
C1408
Ü 1403
R 1405
R 1403
R 1404
R 1402
C1409
L 1406
Ref 1401
Ref 1405
Ref 1403
R 1406
C1410
P 1401
Ü 1404
Schirm

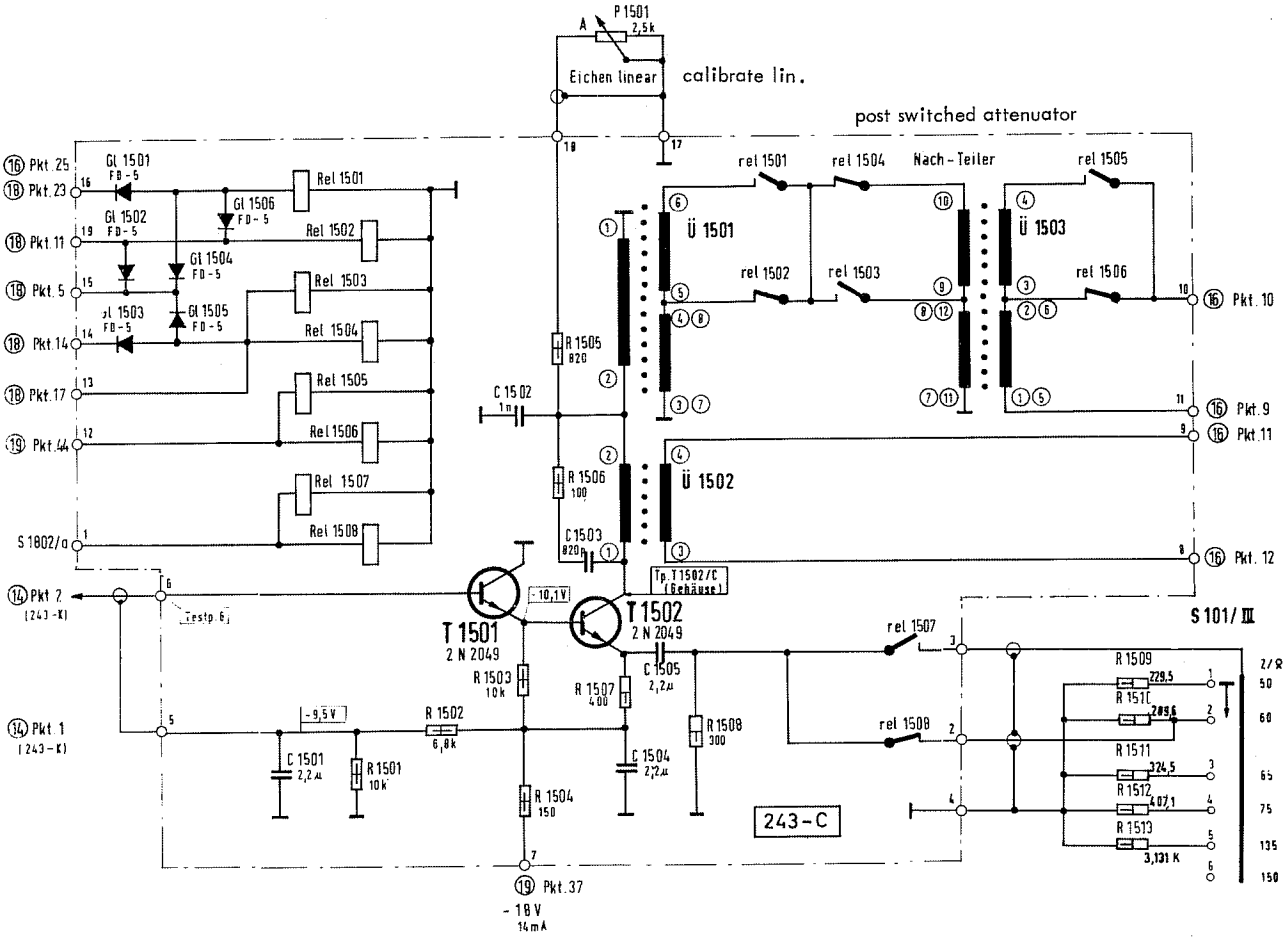


PM-5/BN 243

30-kHz-Bandpaß (14)

(30 kHz Band Pass Filter)


gr
br
ws
Schirm (wssw)
Schirm(wssw)
fl
gr
TP 6
TP-G
R 1505
R 1508
R 1507
R 1501
R 1502
R 1503
R 1504
R 1506
Rel 1502
Rel 1501
Rel 1506
Rel 1507
Rel 1503
Rel 1504
Rel 1505
C 1502
C 1505
C 1501
C 1503
C 1504
T 1502
T 1501
Ü 1501
Ü 1502
Ü 1503
24,3-C
Gl 1506
Gl 1502
Gl 1504
Gl 1501
Gl 1505
Gl 1503
grrt
sw
(wssw)Schirm
flrt
grbl
grgn
grbl
grgn



post switched attenuator

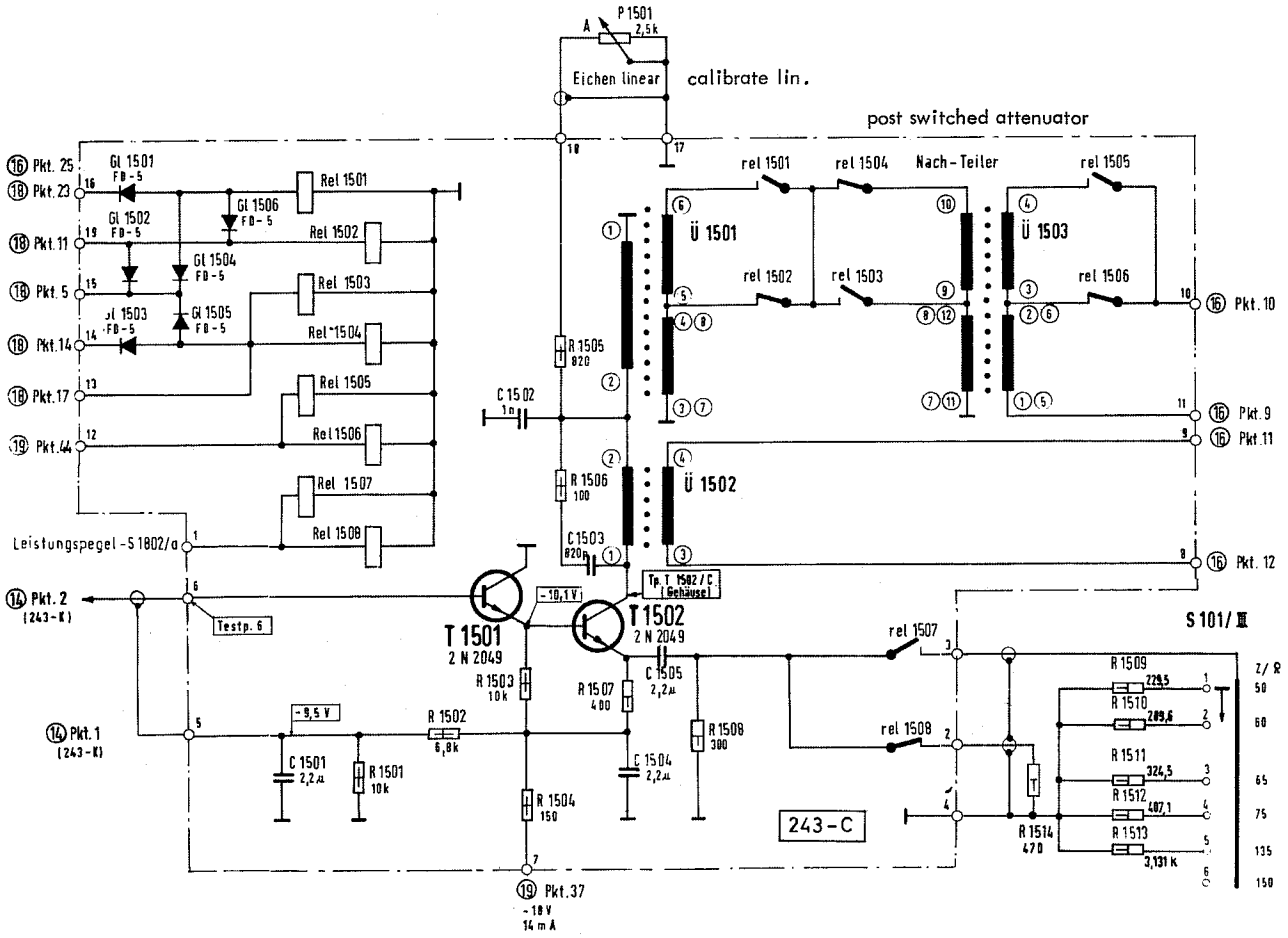
attenuation Nach-Teiler relay energized

Dämpfung	erregte Relais
0 dB	Rel 1501...1506
10 dB	Rel 1501,1502,1505,1506
20 dB	Rel 1503...1506
30 dB	Rel 1505,1506
40 dB	Rel 1501...1504
50 dB	Rel 1501,1502
60 dB	Rel 1503,1504
70 dB	—

PM-5/BN 243

30-kHz-Verstärker 1 und Nach-Teiler dB (15)

(30 kHz Amplifier 1 and Output Attenuator)



post switched attenuator

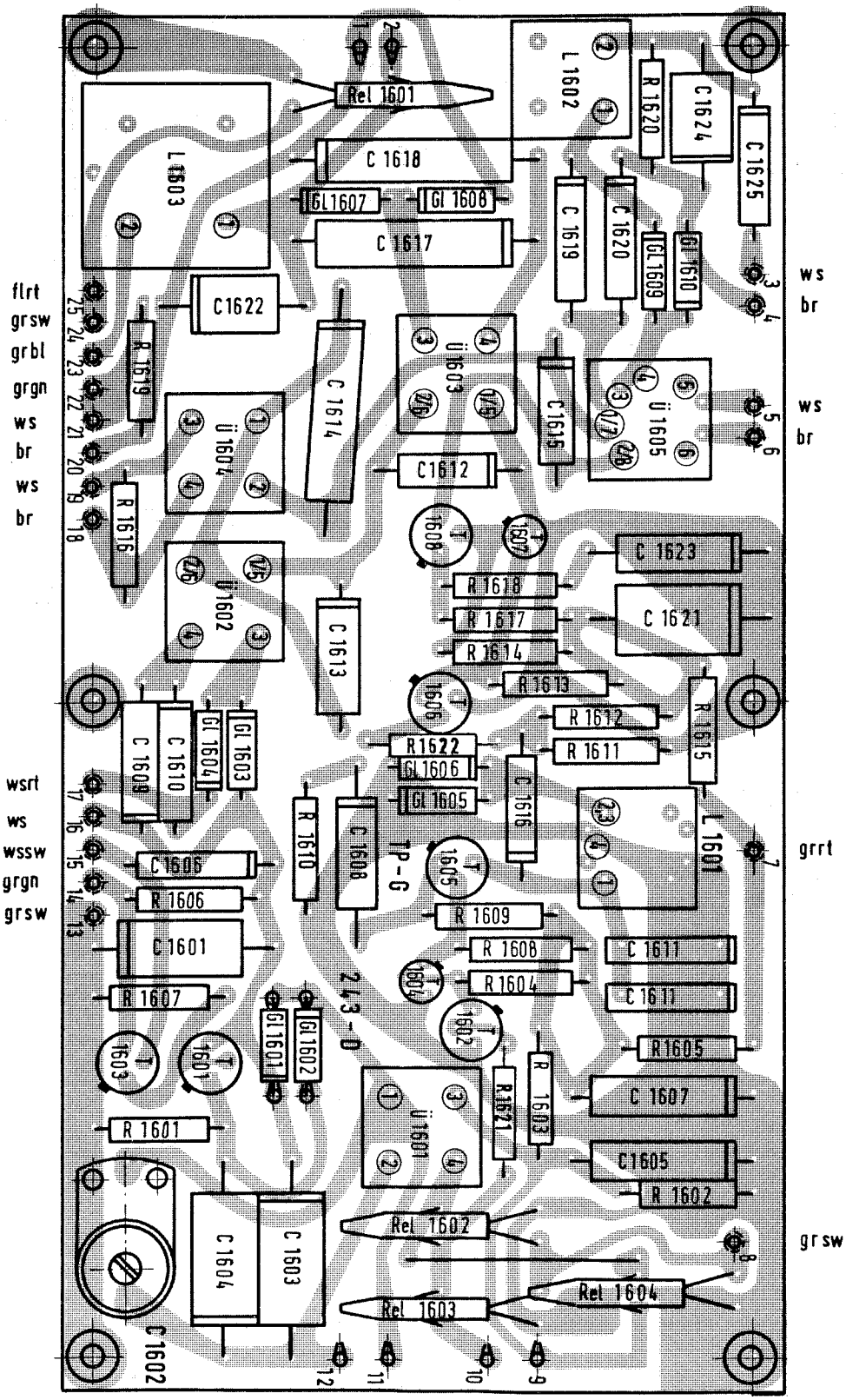
attenuation Nach-Teiler relay energized

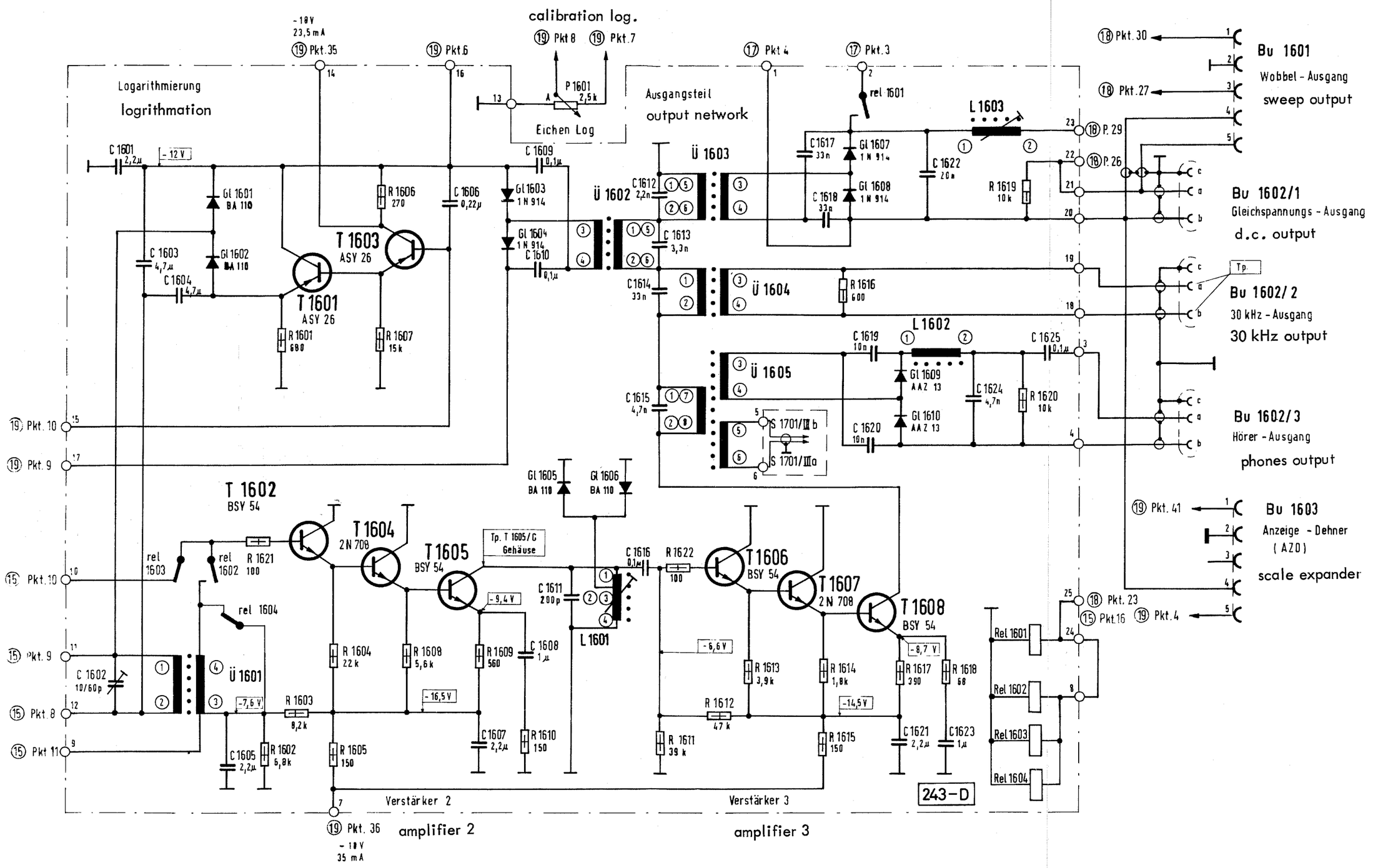
Dämpfung	erregte Relais
0 Np	Rel 1501 ... 1506
1 Np	Rel 1501,1502,1505,1506
2 Np	Rel 1503 ... 1506
3 Np	Rel 1505,1506
4 Np	Rel 1501 ... 1504
5 Np	Rel 1501,1502
6 Np	Rel 1503,1504
7 Np	—

PM-5/BN 243/1

30-kHz-Verstärker 1 und Nach-Teiler Np (15)

(30 kHz Amplifier 1 and Output Attenuator)

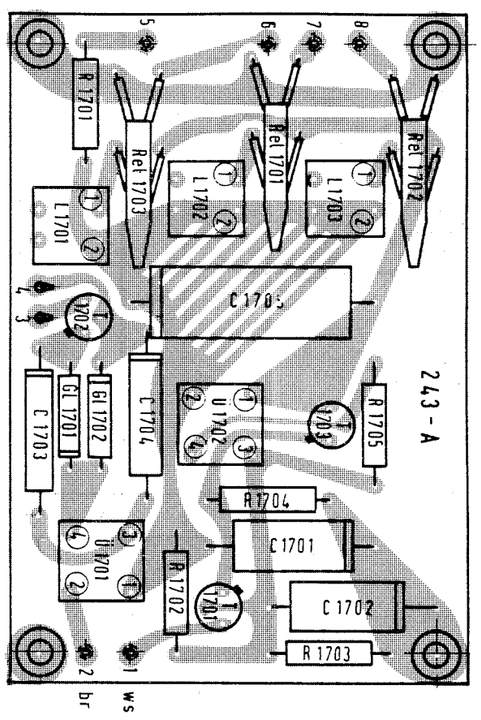

flrt
grsw
grbl
grgn
ws
br
ws
br
wsrt
ws
wssw
grgn
grsw
ws
br
ws
br
grrt
gr sw
Rel 1601
Rel 1602
Rel 1603
Rel 1604
L 1601
L 1602
L 1603
C 1601
C 1602
C 1603
C 1604
C 1605
C 1606
C 1607
C 1608
C 1609
C 1610
C 1611
C 1612
C 1613
C 1614
C 1615
C 1616
C 1617
C 1618
C 1619
C 1620
C 1621
C 1622
C 1623
C 1624
C 1625
R 1601
R 1602
R 1603
R 1604
R 1605
R 1606
R 1607
R 1608
R 1609
R 1610
R 1611
R 1612
R 1613
R 1614
R 1615
R 1616
R 1617
R 1618
R 1619
R 1620
R 1621
R 1622
GL 1601
GL 1602
GL 1603
GL 1604
GL 1605
GL 1606
GL 1607
GL 1608
GL 1609
GL 1610
ü 1601
ü 1602
ü 1603
ü 1604
ü 1605
T 1601
T 1602
T 1603
T 1604
T 1605
T 1606
T 1607
T 1608
TP-G
24-3-D

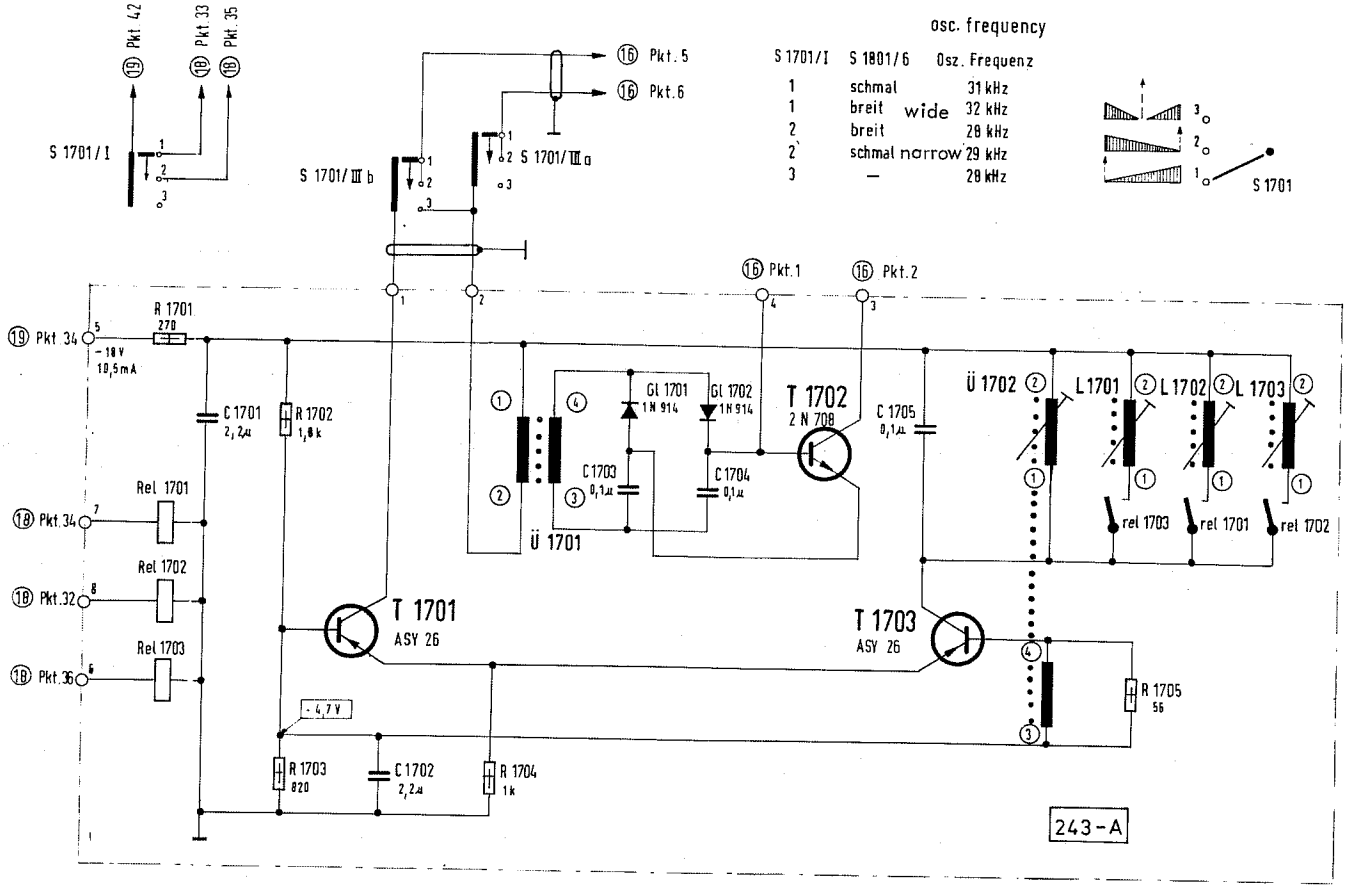


PM-5/BN 243 und 243/1

30-kHz-Verstärker 2 und 3 mit Ausgangsteil dB, Np (16)

(30 kHz Amplifier 2 and 3 with Output Unit)


243 - A
gr
8
grgn
7
gr
6
grbl
5
br
2
ws
1
4
3
R 1701
Ret 1703
Ret 1701
Ret 1702
L 1701
L 1702
L 1703
C 1705
V 1702
V 1703
C 1703
GL 1701
GL 1702
C 1704
U 1702
R 1705
R 1704
C 1701
U 1701
V 1701
R 1702
C 1702
R 1703

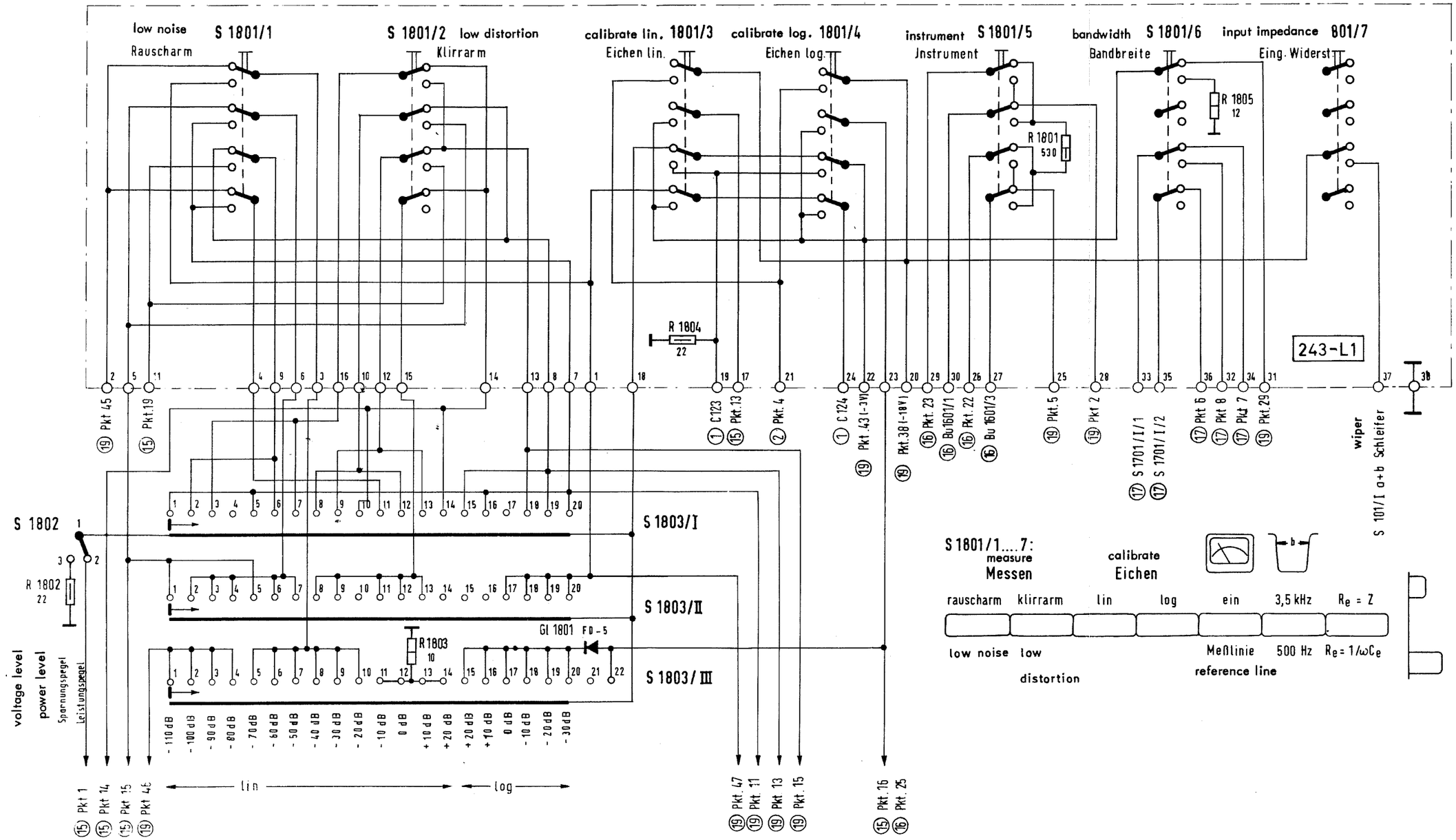


PM-5/BN 243 und 243/1

Umsetzoszillator für Hörer dB, Np (17)

(Carrier Oscillator for Headset-Demodulator)

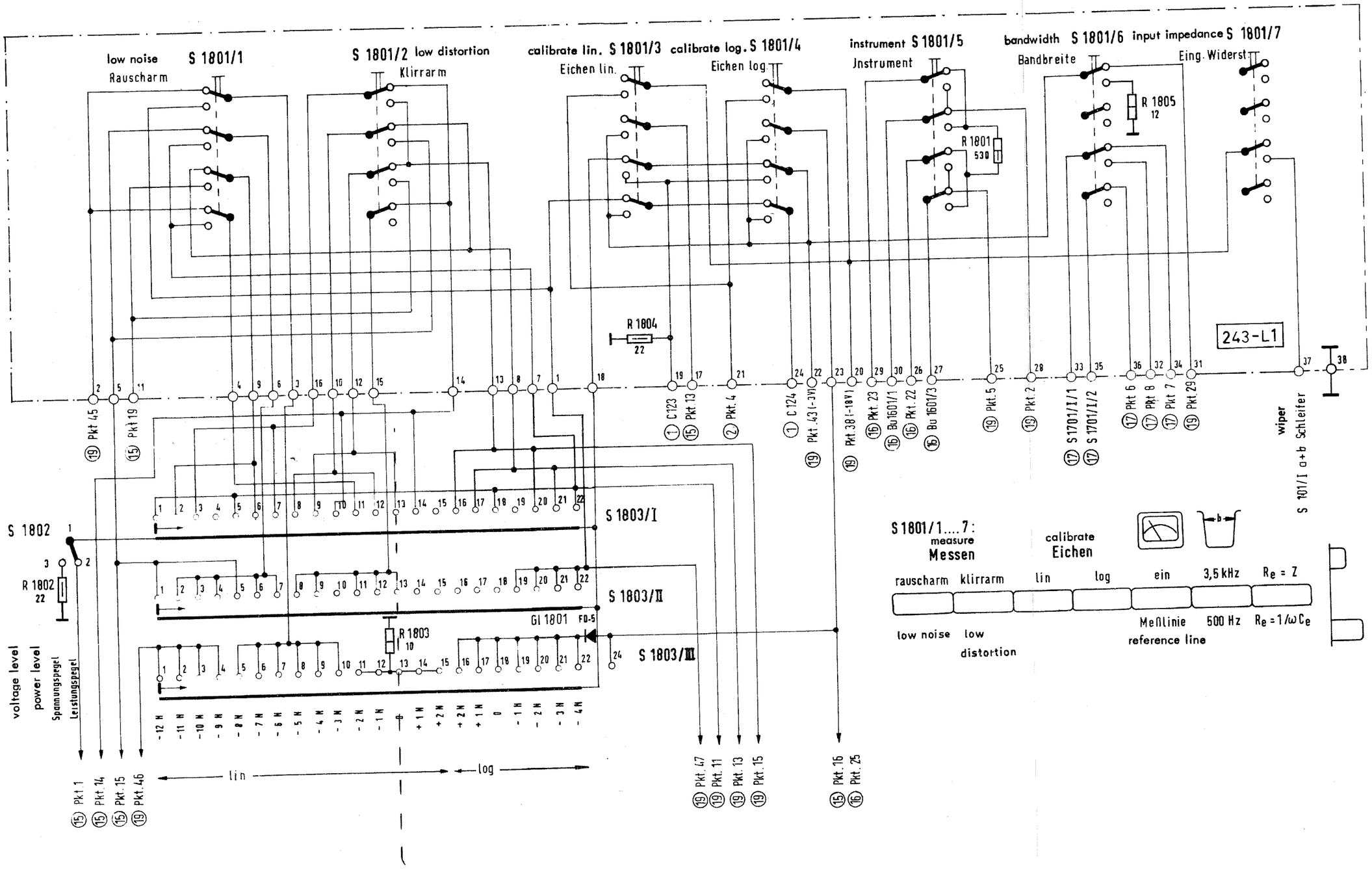
R 1804
R 1801
R 1805
S 1801/1...7
1
2
3
4
5
6
7



PM-5/BN 243

Tastensatz und Empfindlichkeitsschalter dB (18)

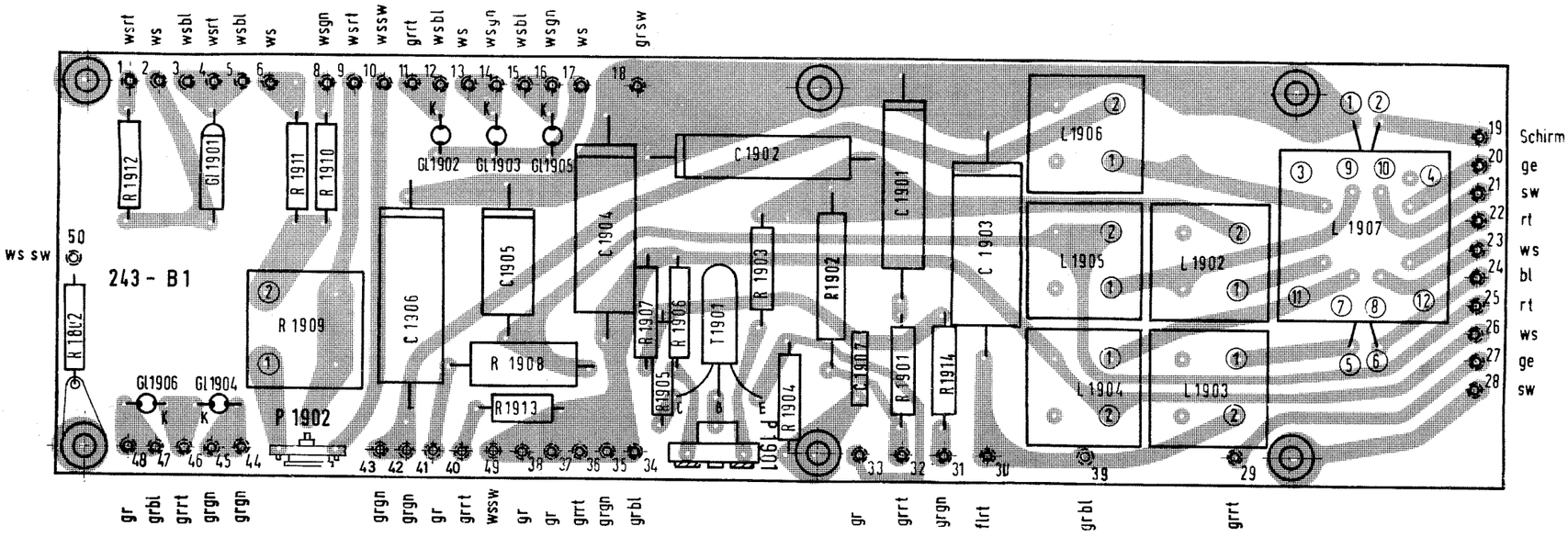
(Push-Button Set and Level Switch)

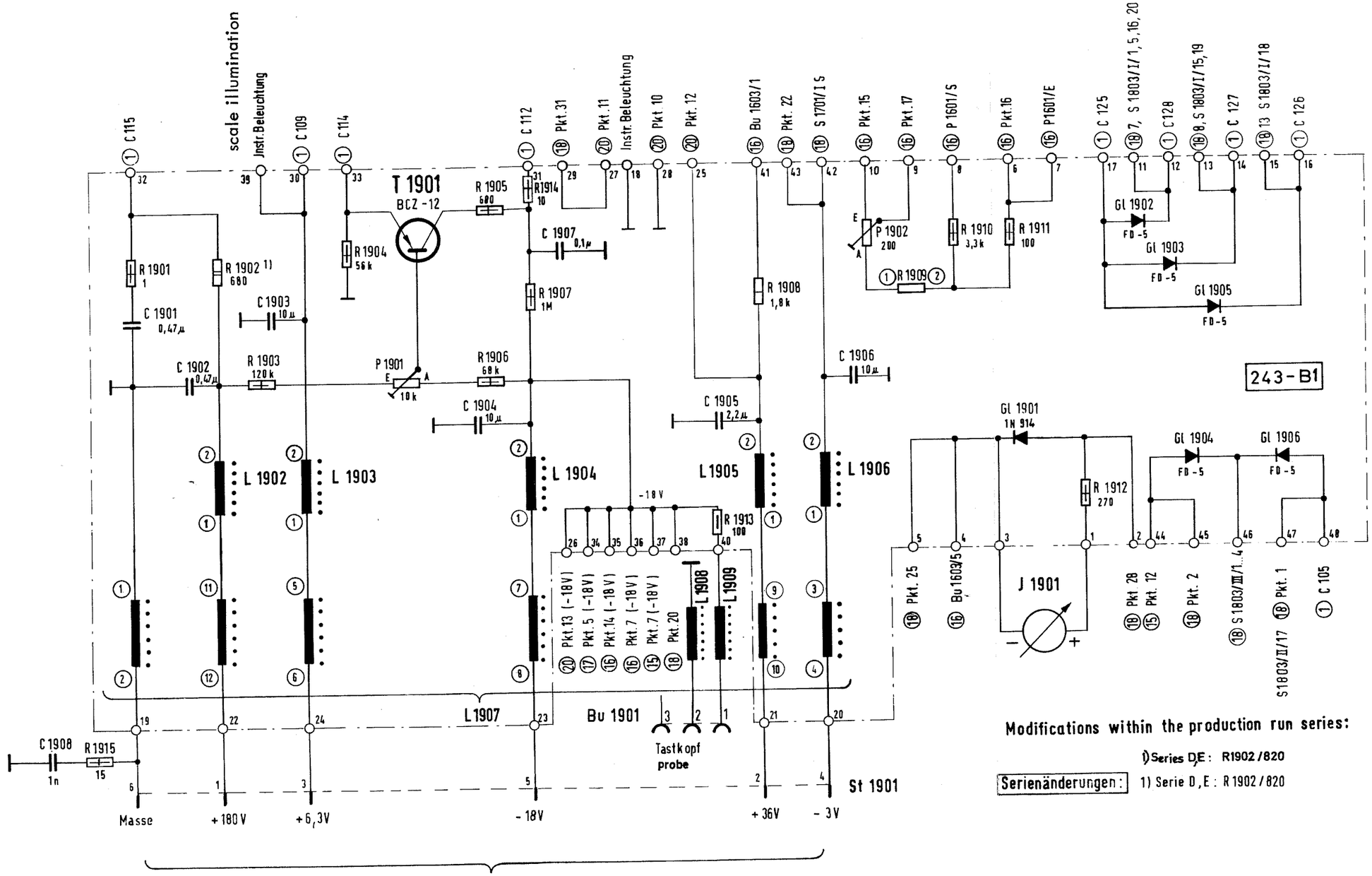


PM-5/BN 243/1

Tastensatz und Empfindlichkeitsschalter Np (18)

(Push-Button Set and Level Switch)


243 - B1
P 1902
R 1912
GL1901
R 1911
R 1910
GL1902
GL1903
GL1905
C 1902
C 1901
L 1906
C 1904
C 1905
C 1906
R 1909
R 1908
R 1913
GL1906
GL1904
R 1907
R 1906
T 1901
R 1903
R 1902
R 1904
P 1901
C 1907
R 1901
R 1914
C 1903
L 1905
L 1902
L 1907
L 1904
L 1903
R 1802
ws sw
50
wsrt ws wsbl wsrt wsbl ws wsgn wsrt wssw grrt wsbl ws wsgn wsbl wsgn ws grsw
gr grbl grrt grgn grgn grgn grgn gr grrt wssw gr gr grrt grgn grbl gr grrt yrgn flrt grbl grrt
Schirm ge sw rt ws bl rt ws ge sw



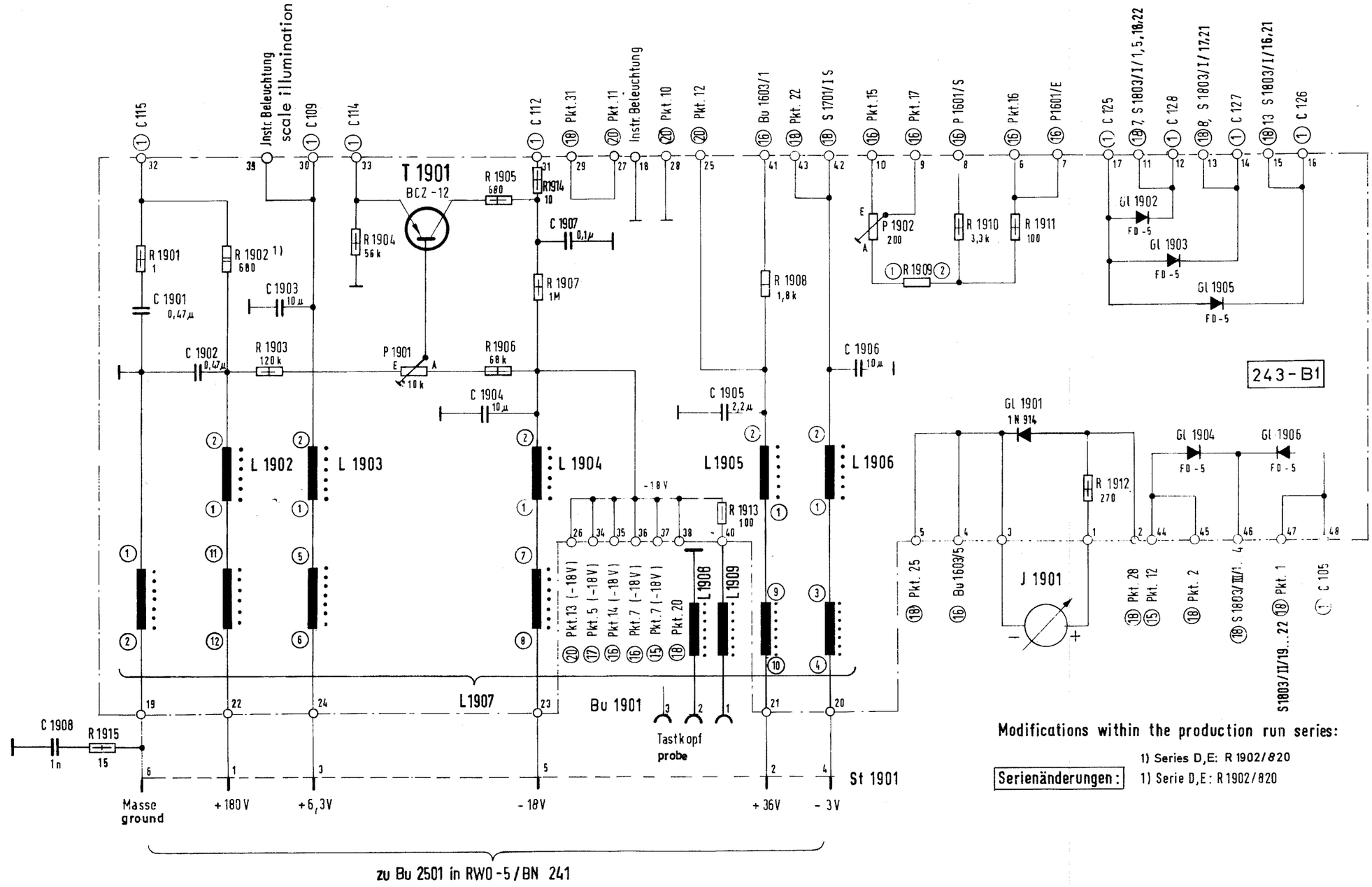
zu Bu 2501 – RWO-5/BN 241

Modifications within the production run series:

1) Series D,E: R1902/820

Serienänderungen: 1) Serie D,E: R 1902/820

PM-5/BN 243
Hauptverteiler dB (19)
(Main Distributor)



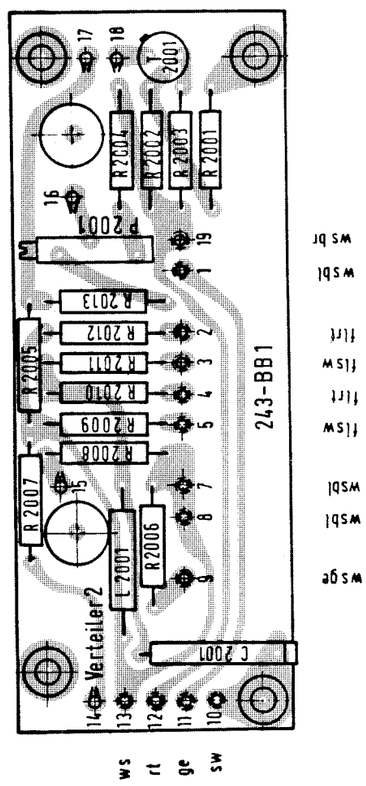
zu Bu 2501 in RWO-5/BN 241

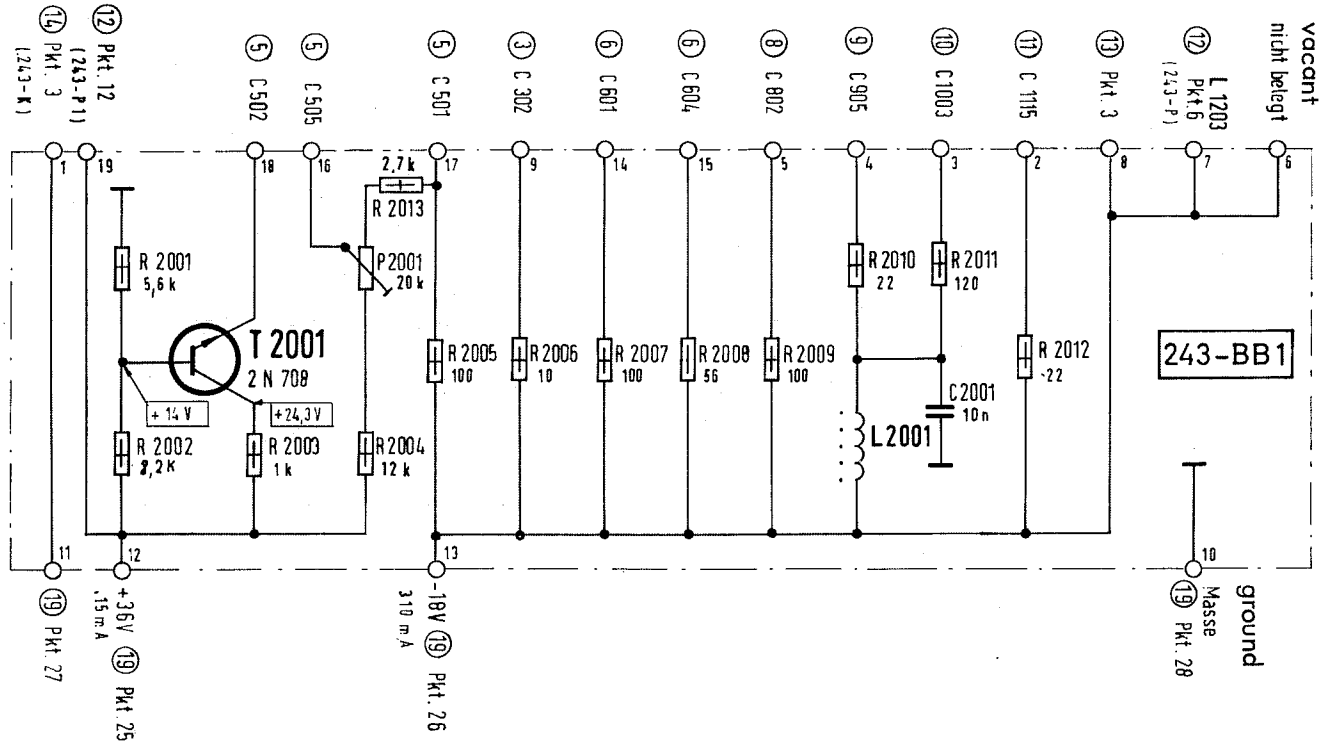
Modifications within the production run series:

1) Series D,E: R 1902/820

Serienänderungen: 1) Serie D,E: R 1902/820

PM-5/BN 243/1
Hauptverteiler Np (19)
(Main Distributor)

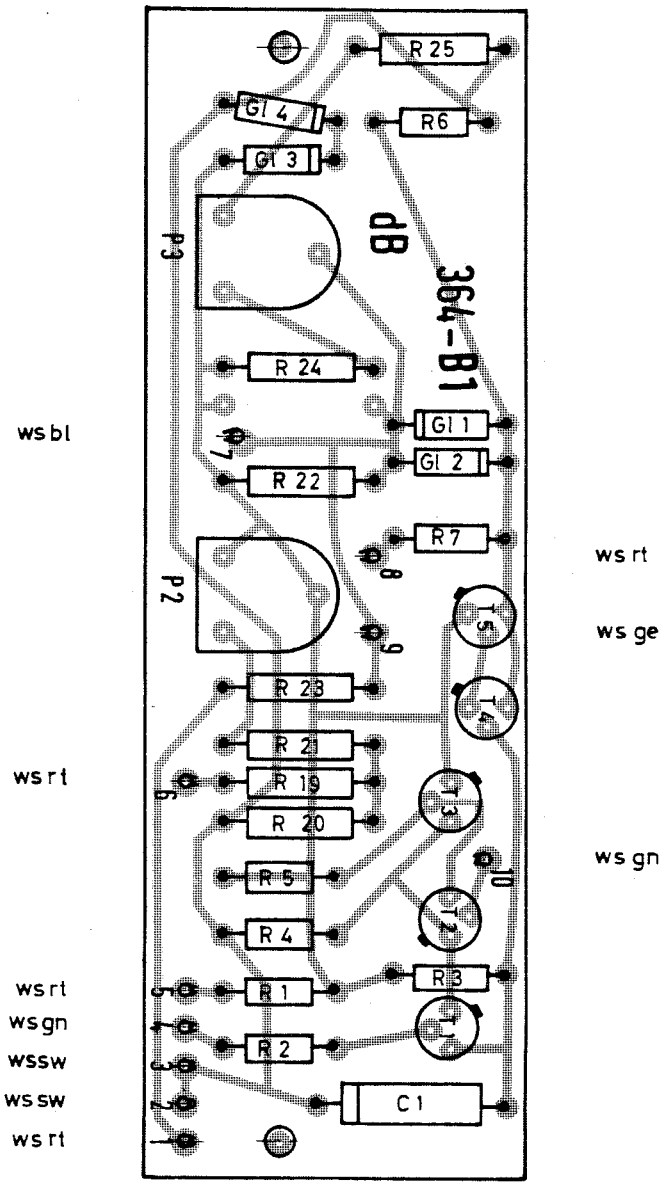

flrl
flsw
17
18
T 2001
R 2004
R 2002
R 2003
R 2001
16
P 2001
19
1
R 2013
R 2012
2
R 2011
3
R 2010
4
R 2009
5
R 2008
7
15
R 2007
R 2005
T 2001
R 2006
8
9
C 2001
243-BB1
14
13
12
11
10
Verteiler2
ws
rt
ge
sw
ws br
wsbl
flrt
flsw
flrt
flsw
wsbl
wsbl
wsge

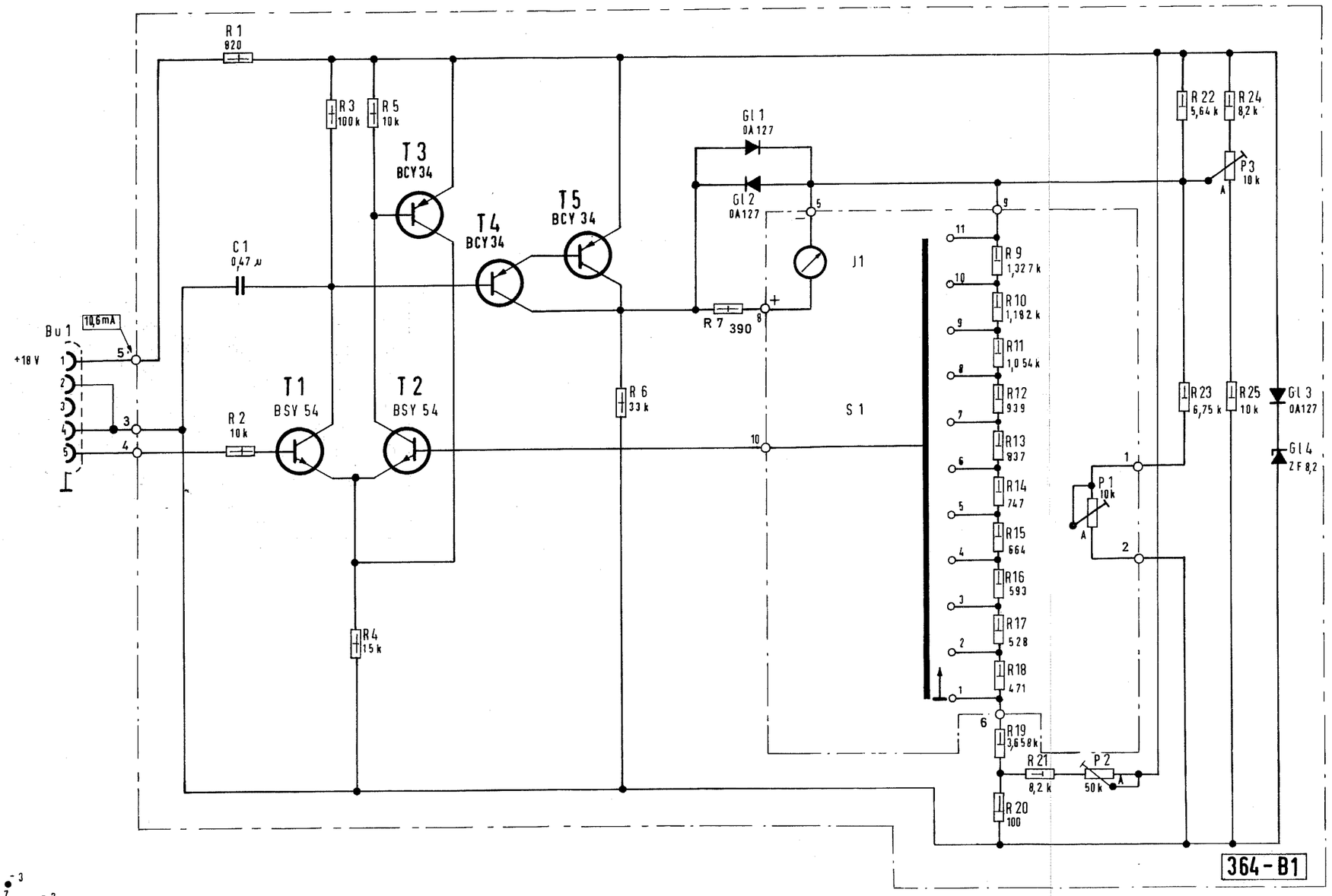


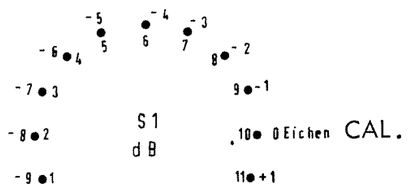
PM-5/BN 243

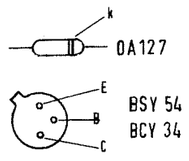
Verteiler 2 (20)

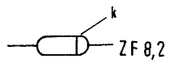
(Distributor)


R 25
Gl 4
R6
Gl 3
dB
364-B1
P3
R 24
Gl 1
Gl 2
R 22
R7
P2
T5
T4
R 23
R 21
R 19
T3
R 20
R 5
T2
R 4
R3
R 1
T1
R 2
C 1
ws bl
ws rt
ws ge
ws gn
ws rt
ws gn
ws sw
ws sw
ws rt









Belastbarkeit der Widerstände Resistor Rating

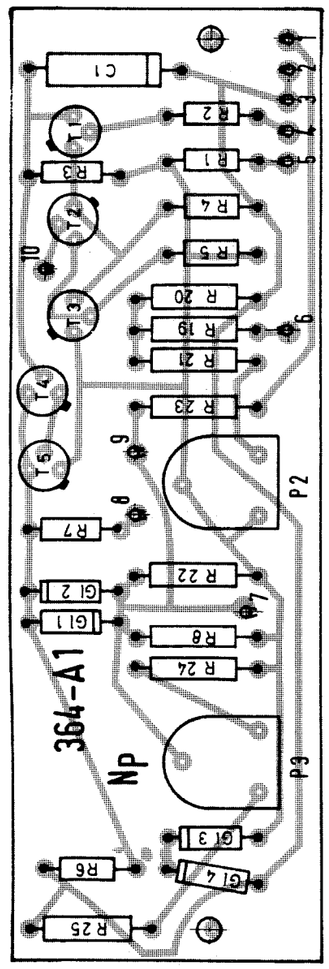
1/3 W 1/4 W 1/2 W ab 1 W röm. Ziffern

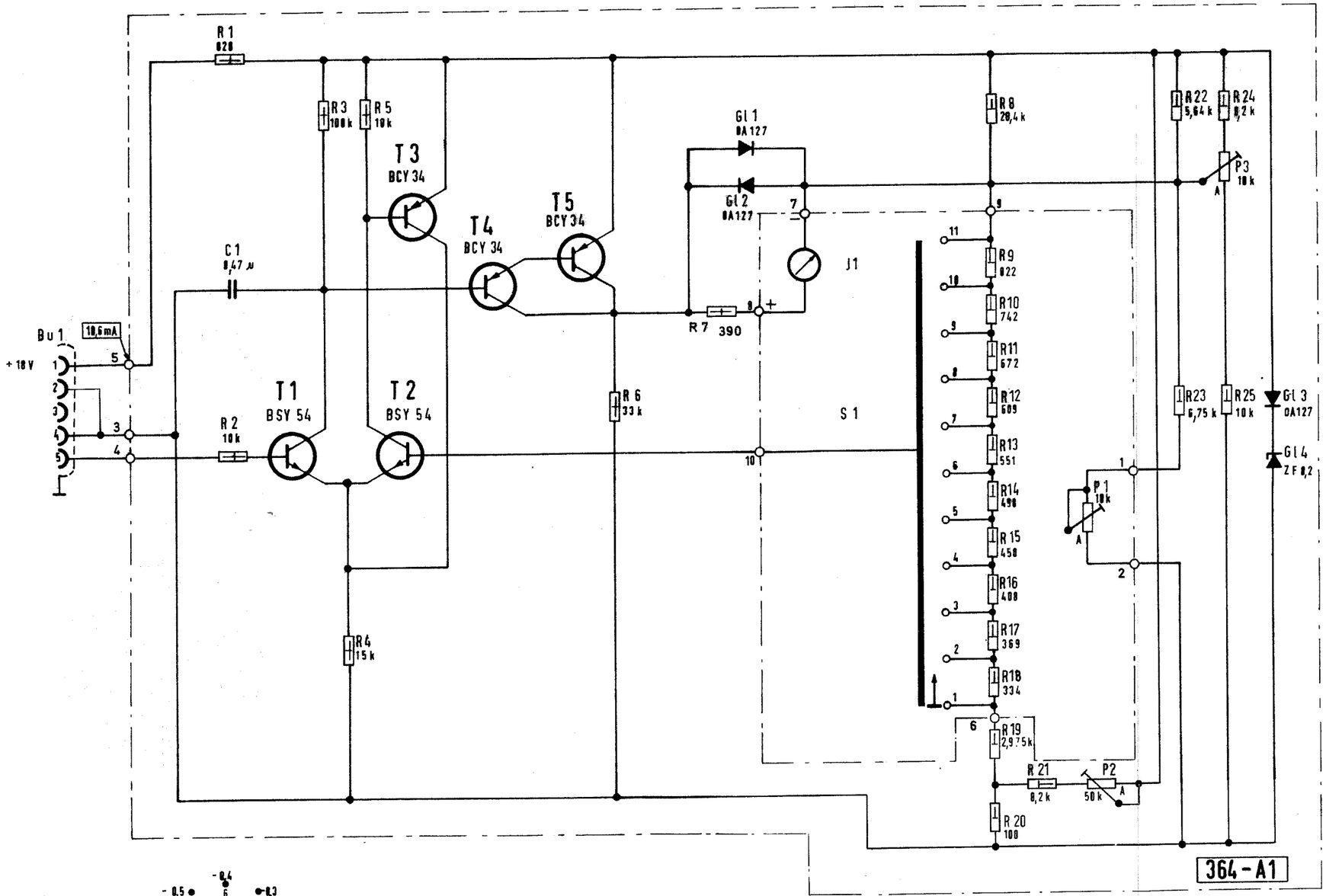
above 1 W rom. numerals

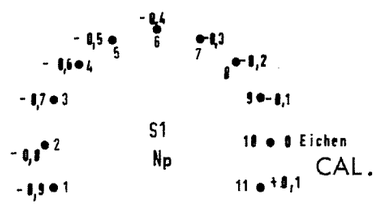
AZD-1/BN 364

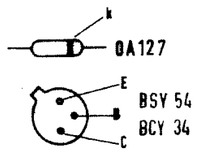
Anzeigedehner dB

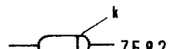
(Display Expander)


364-A1
Np
P2
P3
C1
R1
R2
R3
R4
R5
R6
R7
R8
R19
R20
R21
R22
R23
R24
R25
GL1
GL2
GL3
GL4
T1
T2
T3
T4
T5
1
2
3
4
5
6
7
8
9
10
ws rt
ws gn
wssw
ws sw
ws rt
ws rt
ws bl
ws rt
ws ge
ws gn

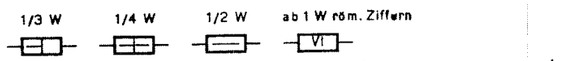








Belastbarkeit der Widerstände Resistor Rating

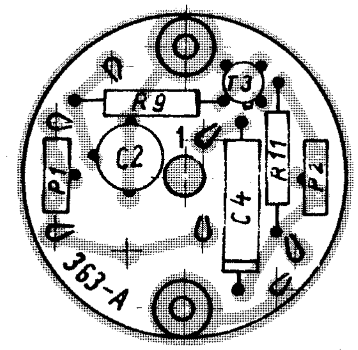


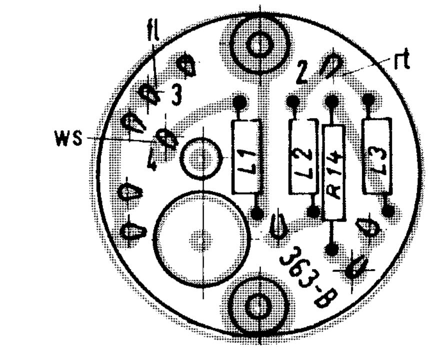
above 1 W rom. numerals

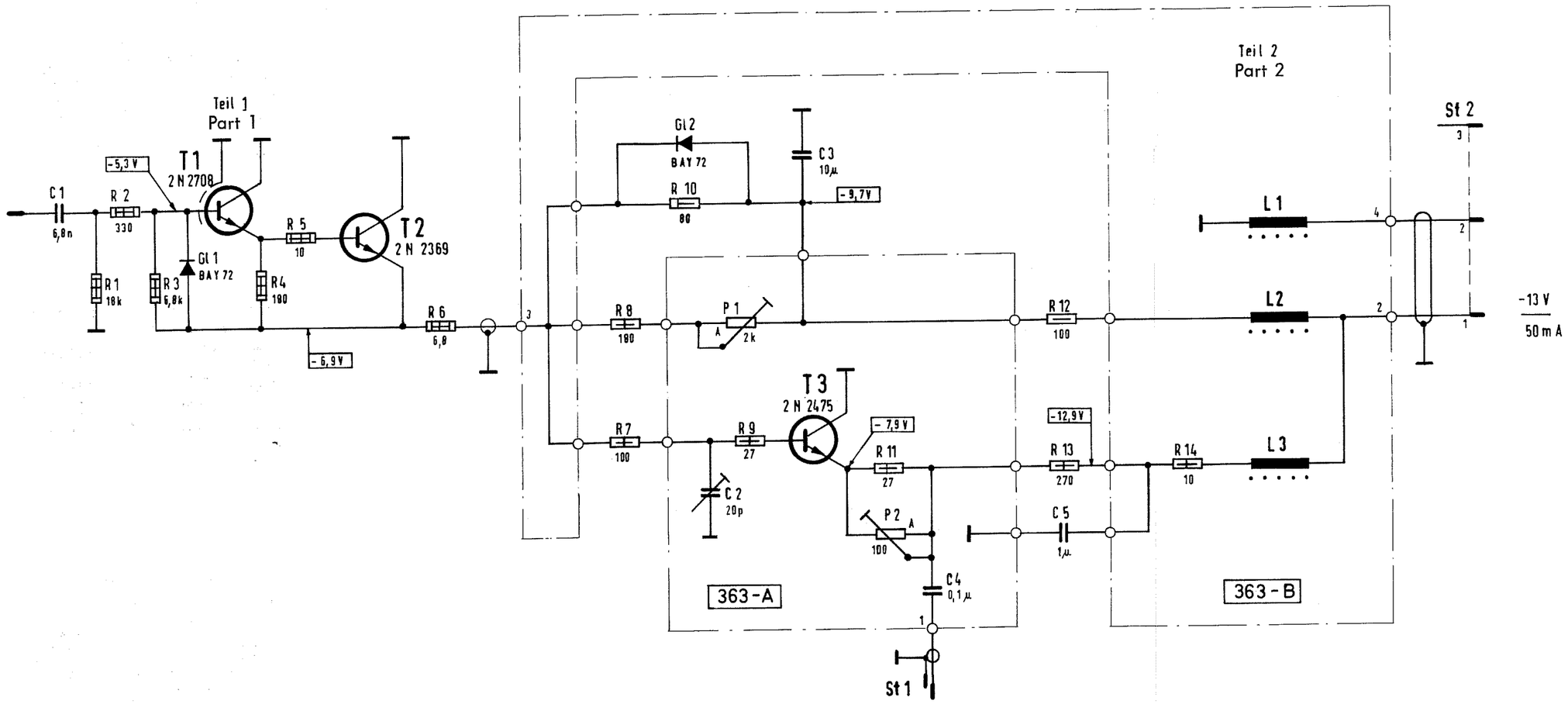
AZD-1/BN 364/1

Anzeigedehner Np

(Display Expander)

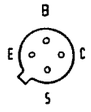

R9
T3
C2
1
P1
C4
R11
P2
363-A


fl
3
ws
4
2
rt
L1
L2
R14
L3
363-B



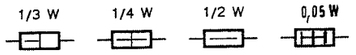
2 N 2475
2 N 2369

2 N 2708

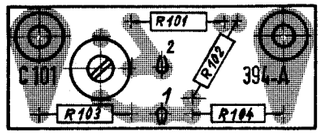


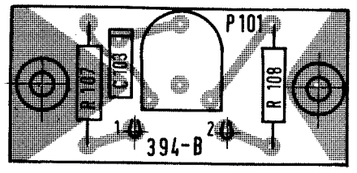
BAY 72

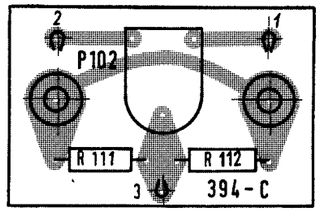
Belastbarkeit der Widerstände Resistor Rating

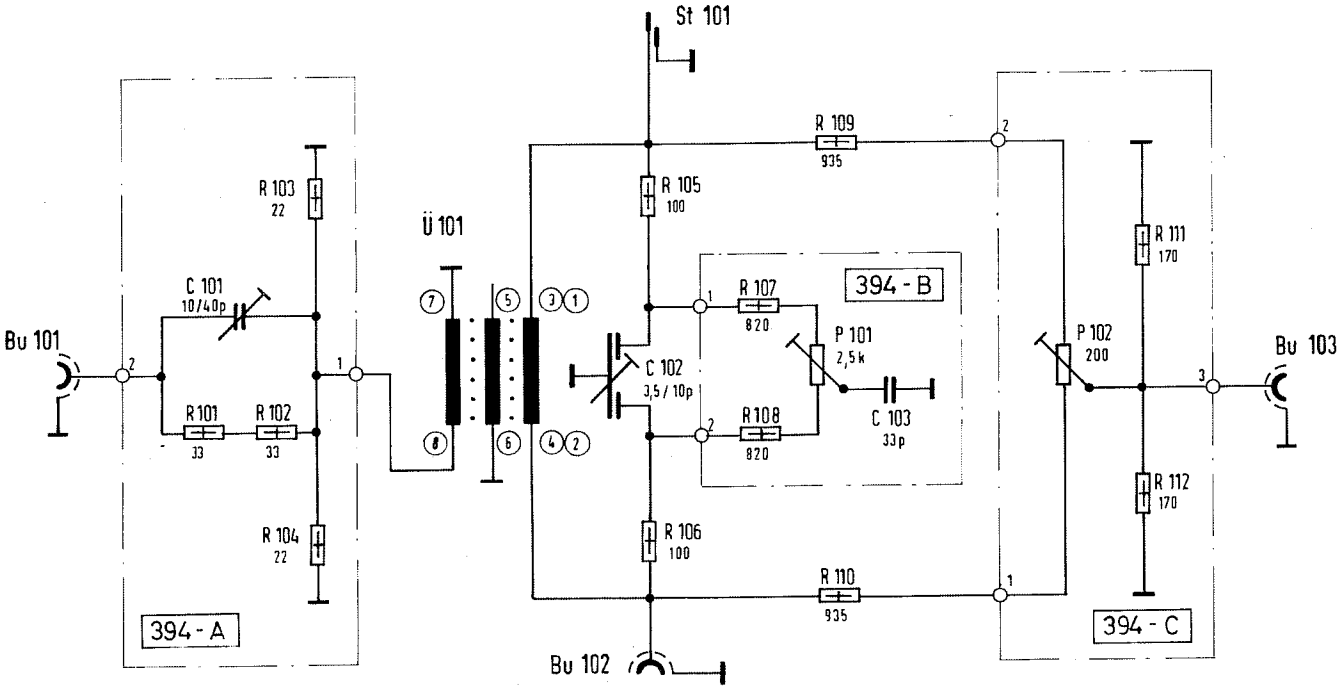


TK-8/BN 363
Tastkopf
(Probe)


R101
2
C101
R102
394-A
1
R103
R104


P101
C103
R107
R 108
1
2
394-B


2
1
P102
R 111
R 112
3
394-C



RFZ-5/BN 394

Reflexionsmeßzusatz (1)

(Reflection Coefficient Attachment)