

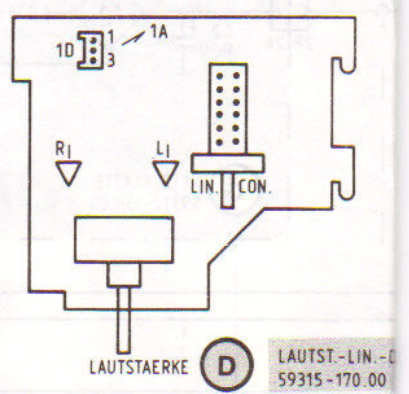
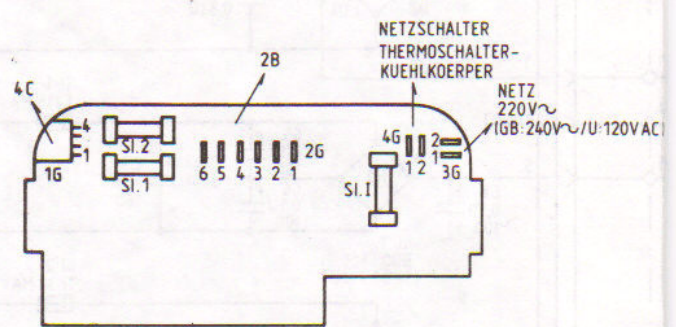
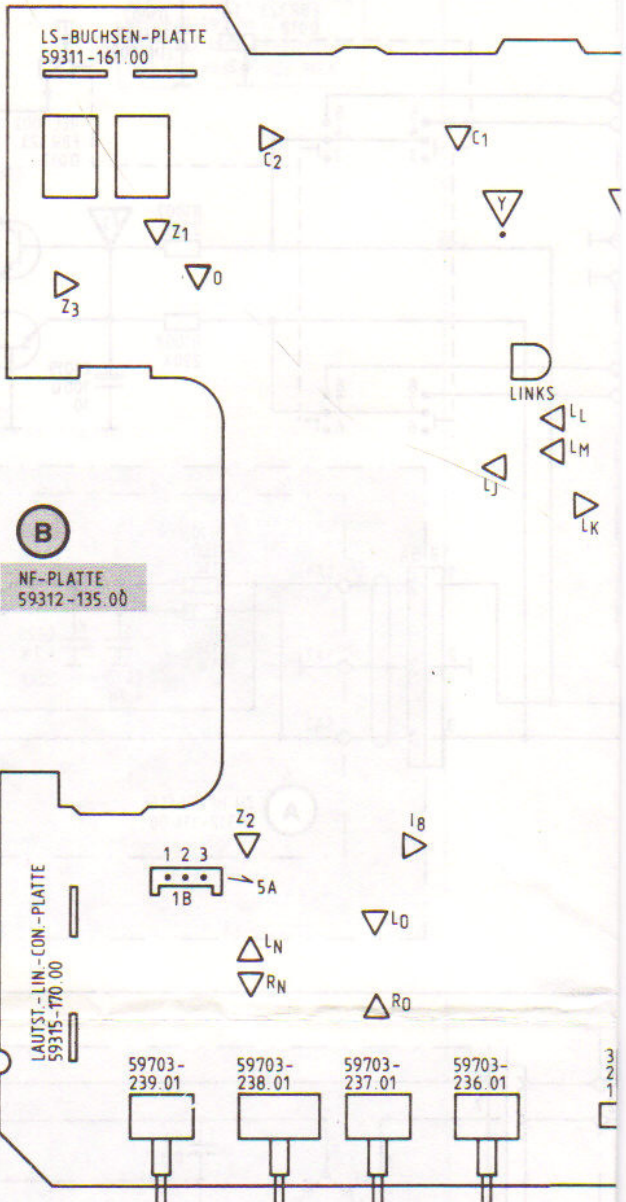
No.	Benennung
Sezioni	Description
	Désignation
	Denominazione

SO 459
 UPB 553 AC
 UPD 1703 C011
 (MOS-Vorschriften beachten)
 HEF 4016 BP(LOCKMOS)
 CA 3140 AE/E (MOS)
 UAA 180
 SN 74 LS 42 N
 HEF 4042 BP (MOS)
 TCA 440-I
 LM 324 N
 TDA 1578
 L 129 V

BC 558 B
 BF 240
 BC 558 B
 BC 558 B
 BC 558 B
 BC 558 B
 BC 558 B
 BC 558 B
 BC 558 B
 BC 558 B
 BC 558 B
 BC 558 C
 BC 397-16
 BC 547 B
 BC 546 B
 BC 546 B
 BC 546 B
 BC 556 B
 BC 546 B
 BC 548 B
 BC 558 B
 BC 558 B
 BF 254
 BC 548 B
 BC 558 B
 BF 254
 BC 550 C
 BC 550 C
 BC 558 B
 BC 558 B
 BC 550 B
 BC 550 B
 BC 550 C
 BC 560 C
 BC 560 C
 BC 560 C
 BC 550 C
 BC 550 C
 BC 550 C
 BC 651 S
 BC 651 S
 BC 651 S

No.	Benennung
Sezioni	Description
	Désignation
	Denominazione

150 Ω
 150 Ω
 150 Ω
 150 Ω
 2 x 50 KΩ
 2 x 50 KΩ
 2 x 10 KΩ
 2 x 10 KΩ
 2 x 6 KΩ
 82 Ω
 2,2 KΩ
 82 Ω
 120 Ω
 39 Ω
 820 Ω
 1,8 KΩ
 1,5 KΩ
 1,3 KΩ
 43 Ω
 150 Ω
 1,8 KΩ
 68 Ω
 68 Ω
 7W/0,22 Ω
 7W/0,22 Ω
 10 Ω
 82 Ω
 2,2 KΩ
 82 Ω
 120 Ω
 39 Ω
 820 Ω
 1,8 KΩ
 1,5 KΩ
 1,3 KΩ
 43 Ω
 150 Ω
 1,8 KΩ
 68 Ω
 68 Ω
 7W/0,22 Ω
 7W/0,22 Ω
 10 Ω
 1,5 KΩ
 2,2 KΩ
 47 Ω*
 18 Ω

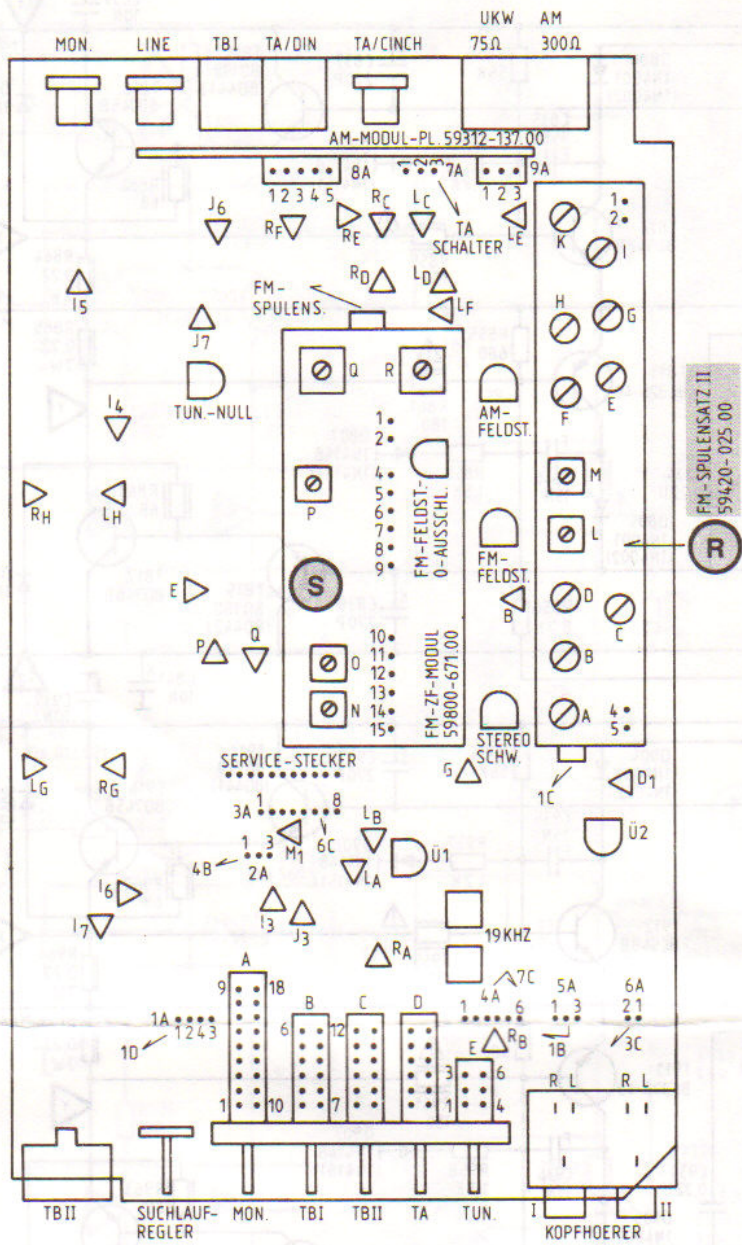
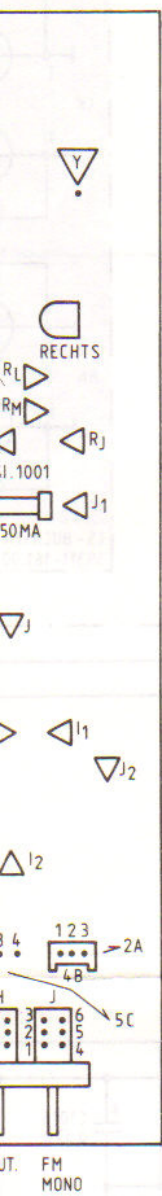


G NETZ-PLATTE
59312-138.00

AENDERUNGEN VORBEHALTEN
ALTERATIONS RESERVED
MODIFICATIONS RESERVEES
CON RISERVA DI MODIFICA

D LAUTST.-LIN.-CON.
59315-170.00

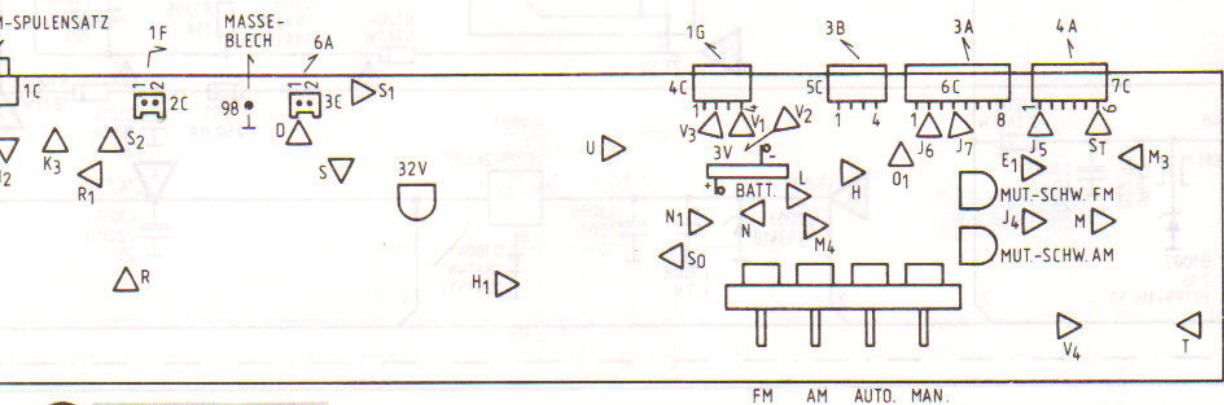
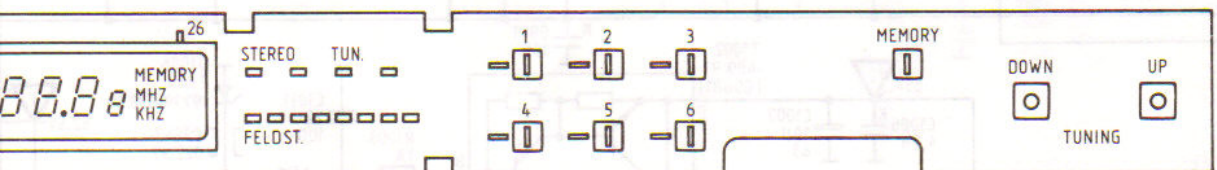
315 mA
 2 A/220 V
 630 mA
 250 mA



ERSATZT
INTERCH
TYPES D
TIPI DI I

VORNUM
INDEX N
CHIFFRE
SIGLA P

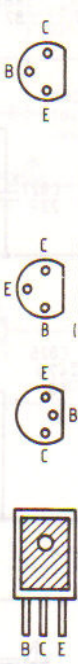
E ANZEIGEPLATTE - SENKRECHT
59315-168.00



C ANZEIGEPLATTE - WAAGRECHT
59315-169.00

- ELKO
- FOLIEN-KONDENSATOR
- STYROFLEX-KONDENSATOR
- KERAMIK-KONDENSATOR
- 0207 DIN
- 0204 DIN
- 0411 DIN
- METALLOXYDSCHICHT-WIDERSTAND
- METALLSCHICHT-WIDERSTAND
- RAUSCHARM
- DRAHTWIDERSTAND
- SCHWER ENTFLAMMBAR

TRANSISTOREN:



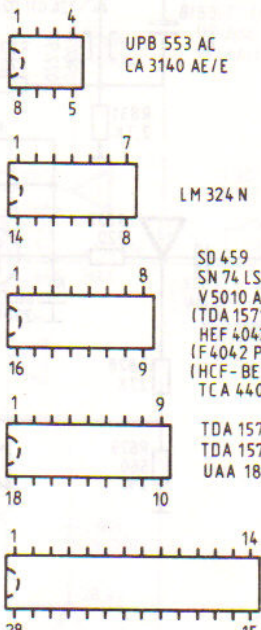
BC414 / BC549
 BC328 / BC559
 BC337
 BC338
 BC546
 BC547
 BC548
 BC550
 BC558
 BC560
 GPS A05 -264.97

BF199
 BF240
 BF254
 BF440
 (BF450)

BC651

GD 679 -480.97
 (GD 681)
 BD135
 BD179 / BD180

IC:



UPB 553 AC
 CA 3140 AE/E

LM 324 N

SD 459
 SN 74 LS42 N
 V5010 A
 (TDA 1571)
 HEF 4042 BP
 (F4042 PC)
 (HCF-BE)
 TCA 440

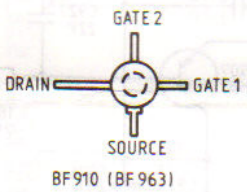
TDA 1576
 TDA 1578
 UAA 180

UPD 1703 C011
 0831-827.95

19799-263.97
 L 129 V
 (MC7805 CT)
 (UA7805 CKC)
 (L7805 CV)

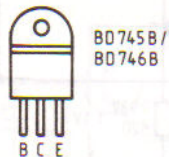
OUTPUT
 GROUND
 INPUT

ERN ()
S IN BRACKETS ()
PARENTHESIS ()



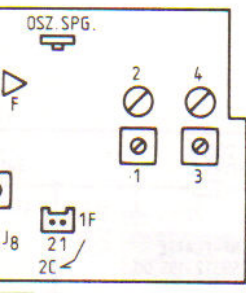
DIODEN:

- BB 104 GR. (BB204 GR.) 19799-135.11
- BB 104 BL. (BB204 BL.) 19799-135.01
- BB113 -342.01
- Z 4,7V 19799-111.01
- Z 6,2V 19799-110.03
- Z 6,8V 19799-107.01
- Z 16 V 19799-116.51
- Z 56 V 19799-128.91
- Z 7,5V -124.01 (.02, .03, .04, .31)

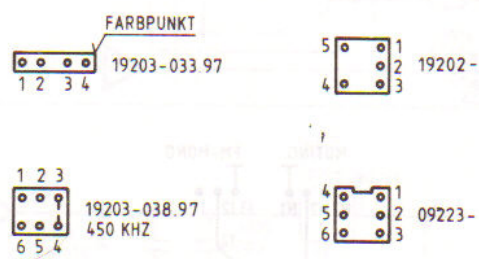


EN UND TRANSISTOREN
DES AND TRANSISTORS
R DIODES ET TRANSISTORS
NSISTORS

09654-



FILTER:



FARBPUKNT
 19203-033.97

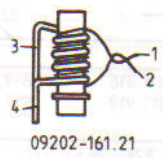
19203-038.97
 450 KHZ

09223-

GLEICHRICHTER:

- B 80 C 800 S1
- (SKB 1,2-02)
- (B 80 C 1000 S1)
- B 30 C 300 A 4

SPULE:



GRUNDIG

- R 3000-3
- R 3000-3 GB
- R 3000-3 U
- (55053-906.01)

RUHESTROMEINSTELLUNG
OHNE LAUTSPRECHERABSCHLUSS MIT R849 BZW. R949 SPANNUNGSABFALL
AN R864 ∇ +R865 ∇ BZW. R964+965 AUF 30 MV (+20-10%) EINSTELLEN.

SETTING OF QUIESCENT CURRENT
WITH LOUDSPEAKER SOCKET NOT TERMINATED ADJUST R849 RESP. R949
TO OBTAIN A POTENTIAL DROP ACROSS R864 ∇ +R865 ∇ RESP. R964+
965 OF 30 MV (+20-10%)

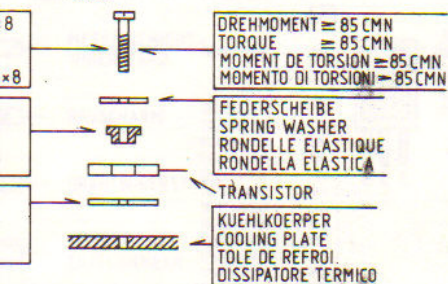
REGLAGE DU COURANT DE REPOS.
SANS CHARGE HAUT PARLEURS REGLER RESP. PAR R849 RESP. R949 LA CHUTE
DE TENSION AUX BORNES DE R864 ∇ +R865 ∇ RESP. R964+965 A
30 MV (+20-10%).

REGOLAZIONE CORRENTE DI RIPOSO
SENZA CHIUSURA SULL'ALTOPARLANTE REGOLARE LA CADUTA DI TENSIONE
CON R849 RISP. R949 AGENDO SU R864 ∇ +R865 ∇ RISP. R964+965
PORTANDO IL VALORE 30 MV (+20-10%).

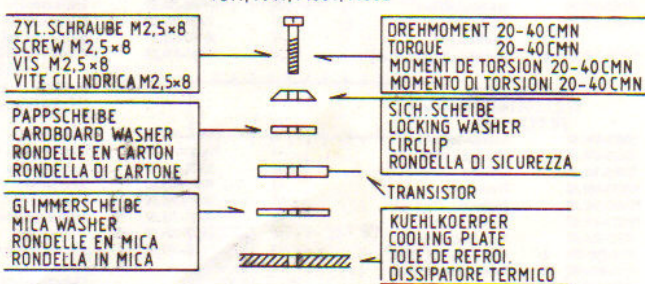
AENDERUNGEN VORBEHALTEN
ALTERATIONS RESERVED
MODIFICATIONS RESERVEES
CON RISERVA DI MODIFICA

MONTAGEANLEITUNG FUER TRANSISTOREN: / MOUNTING INSTRUCTIONS FOR TRANSISTORS:
INSTRUCTIONS DE MONTAGE POUR LES TRANSISTORS: / INSTRUZIONI DI MONTAGGIO PER DEI TRANSISTORI:

T816, T817, T916, T917
IC1001

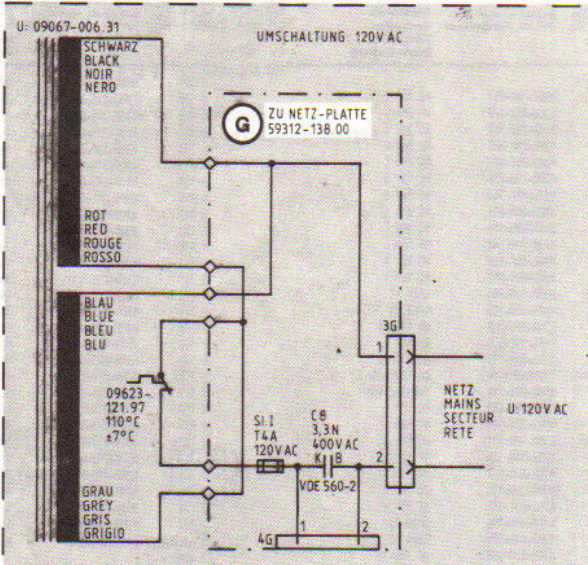
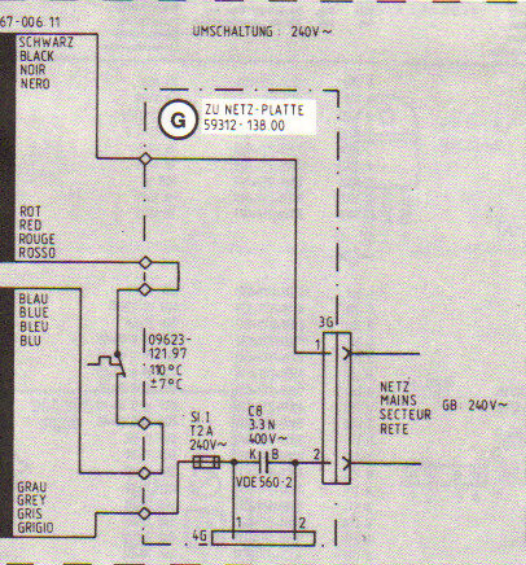


T814, T815, T914, T915
T811, T911, T1001, T1002



ACHTUNG: GLIMMERSCHEIBE BEIDSEITIG MIT
SILICONFETT P12 BESTREICHEN.
(WACKER-CHEMIE, MUENCHEN)
IMPORTANT: SMEAR MICA WASHER AT BOTH SIDES
WITH SILICON GREASE P12.
(WACKER-CHEMIE, MUENCHEN)

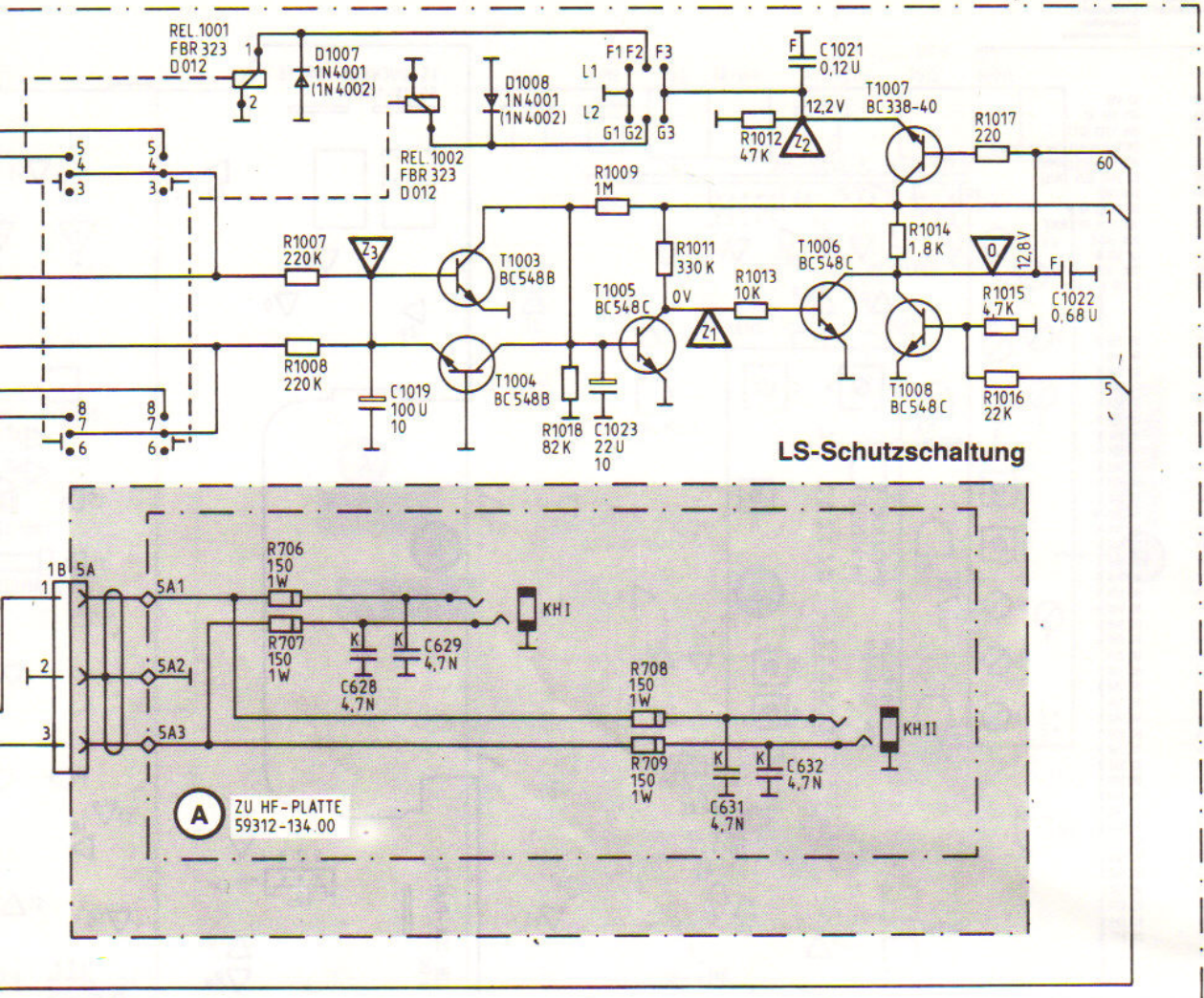
IMPORTANT: GRAISSER LA RONDELLE DE MICA
AVEC DE LA GRAISSE P12.
(WACKER-CHEMIE, MUENCHEN)
ATTENZIONE: LA RONDELLA IN MICA VA
SPALMATA DA AMBO LE PARTI DI GRASSO AL
SILICONI P12. (WACKER-CHEMIE, MUENCHEN)



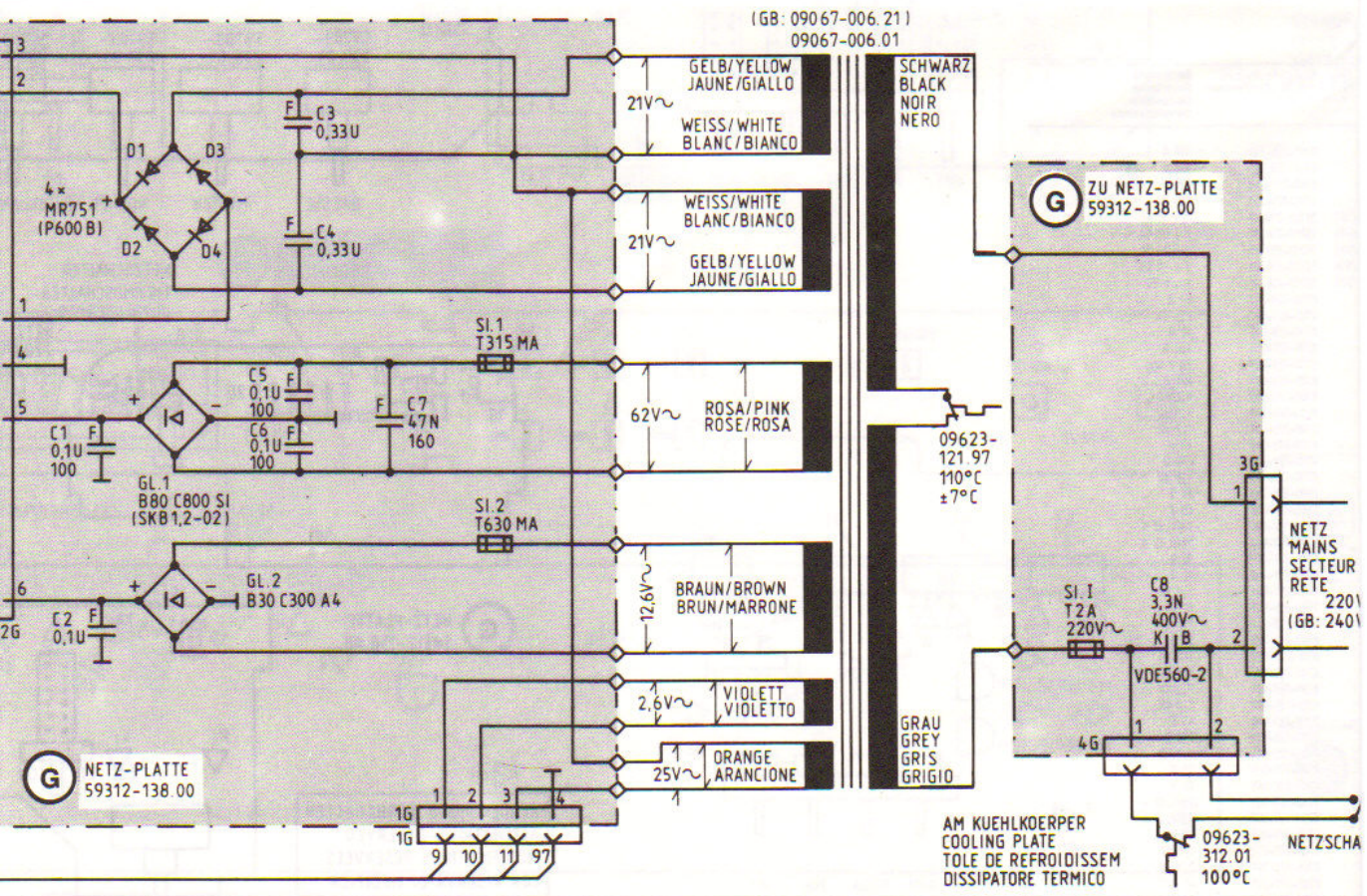
GRUNDIG

R 3000-3
R 3000-3 GB
R 3000-3 U
(55053-906.01)

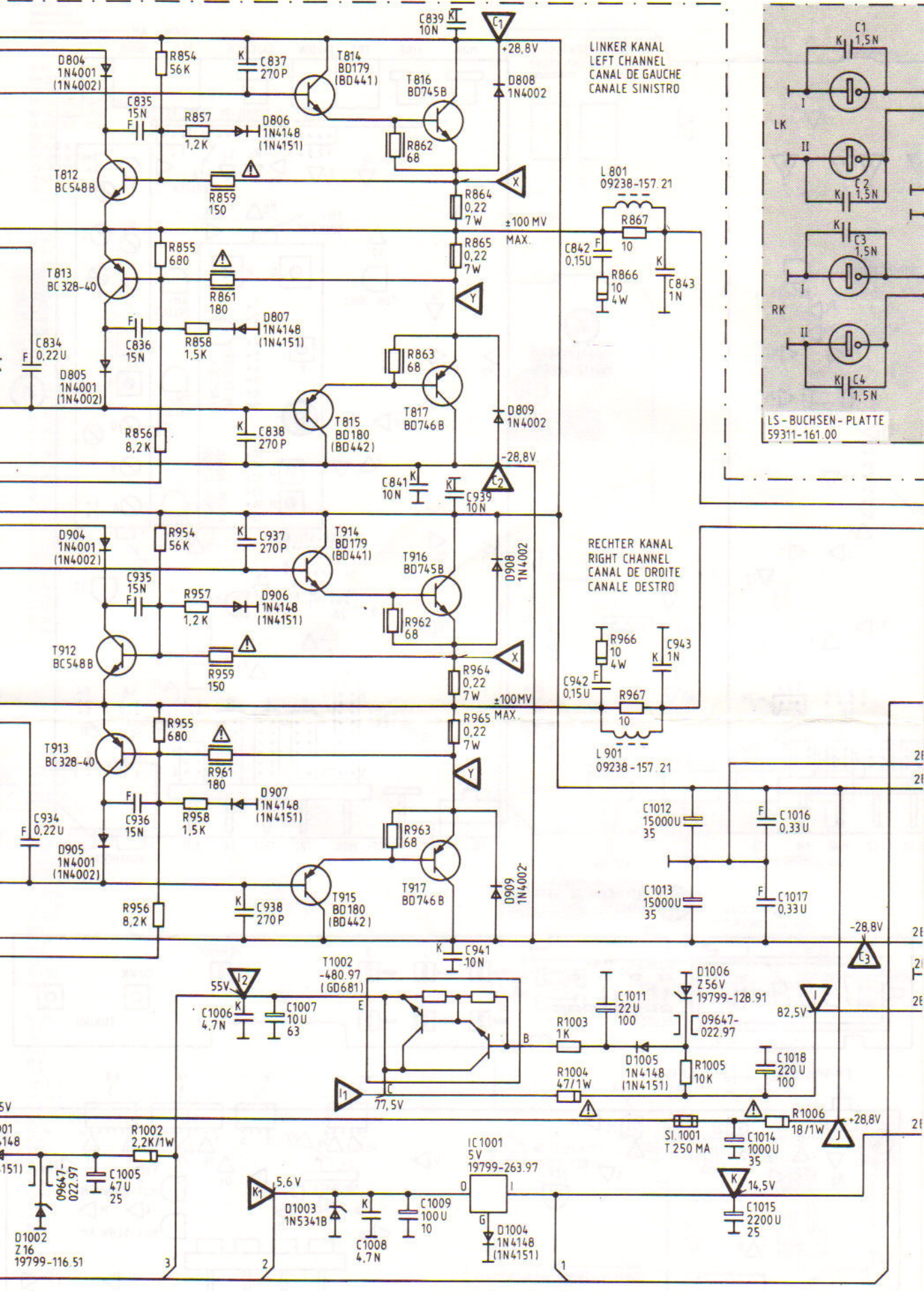
UNGS-AUFNAHME
ER CONSUMPTION
OMMATION DE PUISSANCE
RIMENTO DI POTENZA } MAX. 250 W



GR. I
GR. II
LK
RK
ZY
SCF
VIS
VIT
ISO
INS
ROI
ROI
GLI
MIC
ROI
ROI



1,	3, 6,	1019, 629,	1023,	631, 632,	1021,	1022,	8,
2,	4,	628,					
	5,	7,					
	706, 1007,		1018, 1009, 708, 1011,	1013, 1012,	1014,	1017, 1015,	
	707, 1008,		709,			1016,	

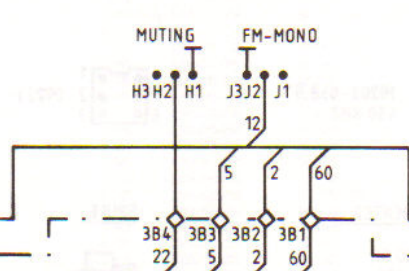
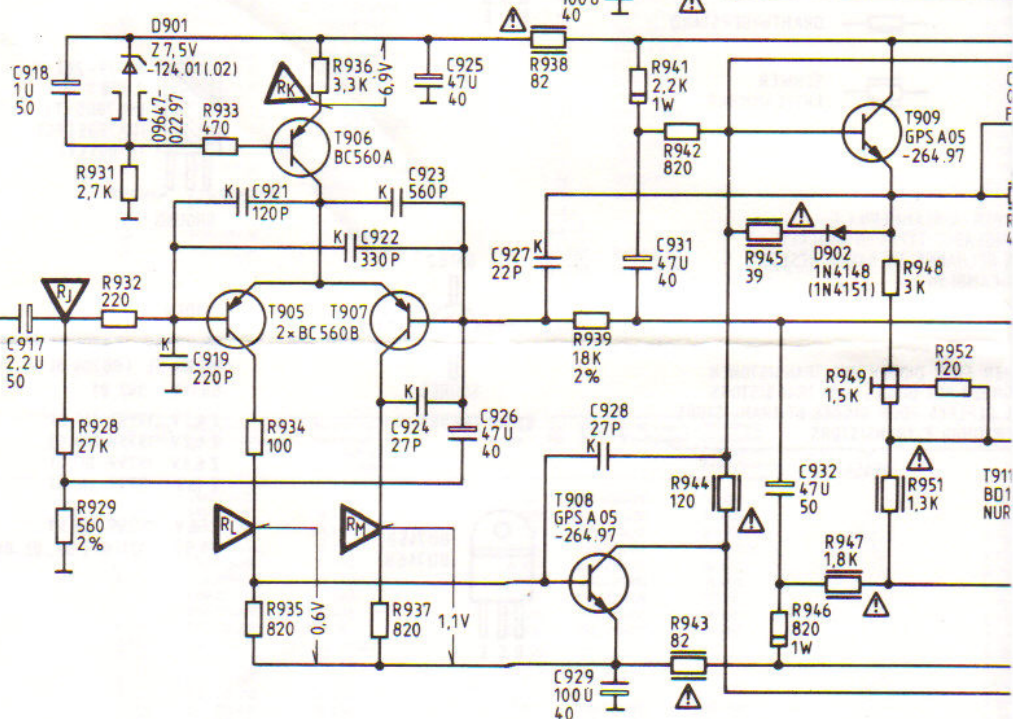
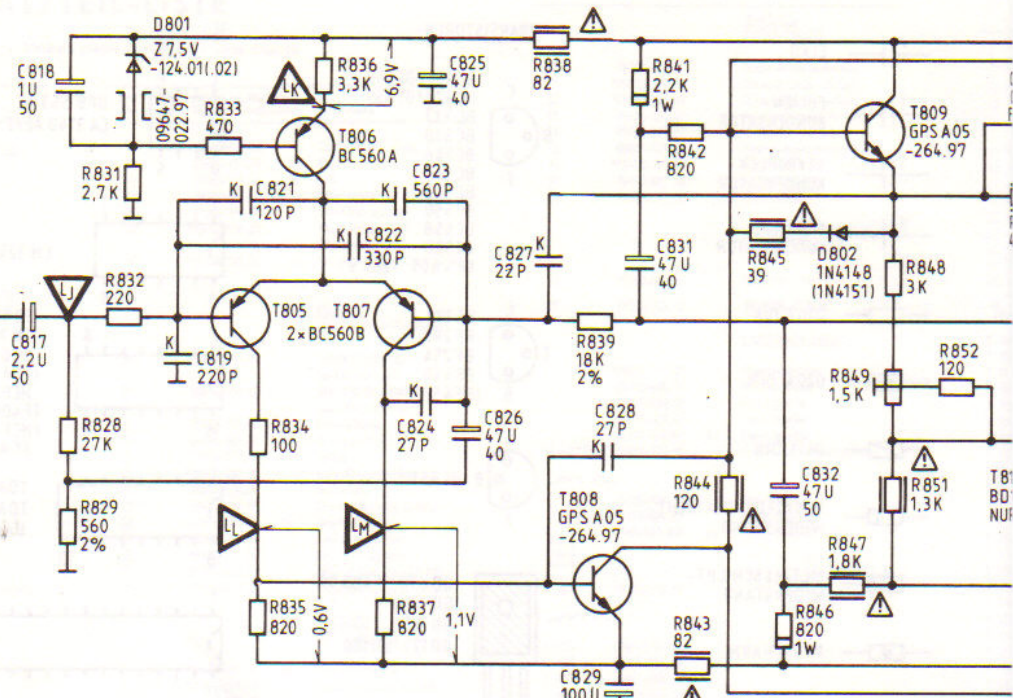


LINKER KANAL
LEFT CHANNEL
CANAL DE GAUCHE
CANALE SINISTRO

RECHTER KANAL
RIGHT CHANNEL
CANAL DE DROITE
CANALE DESTRO

LS - BUCHSEN - PLATTE
59311-161.00

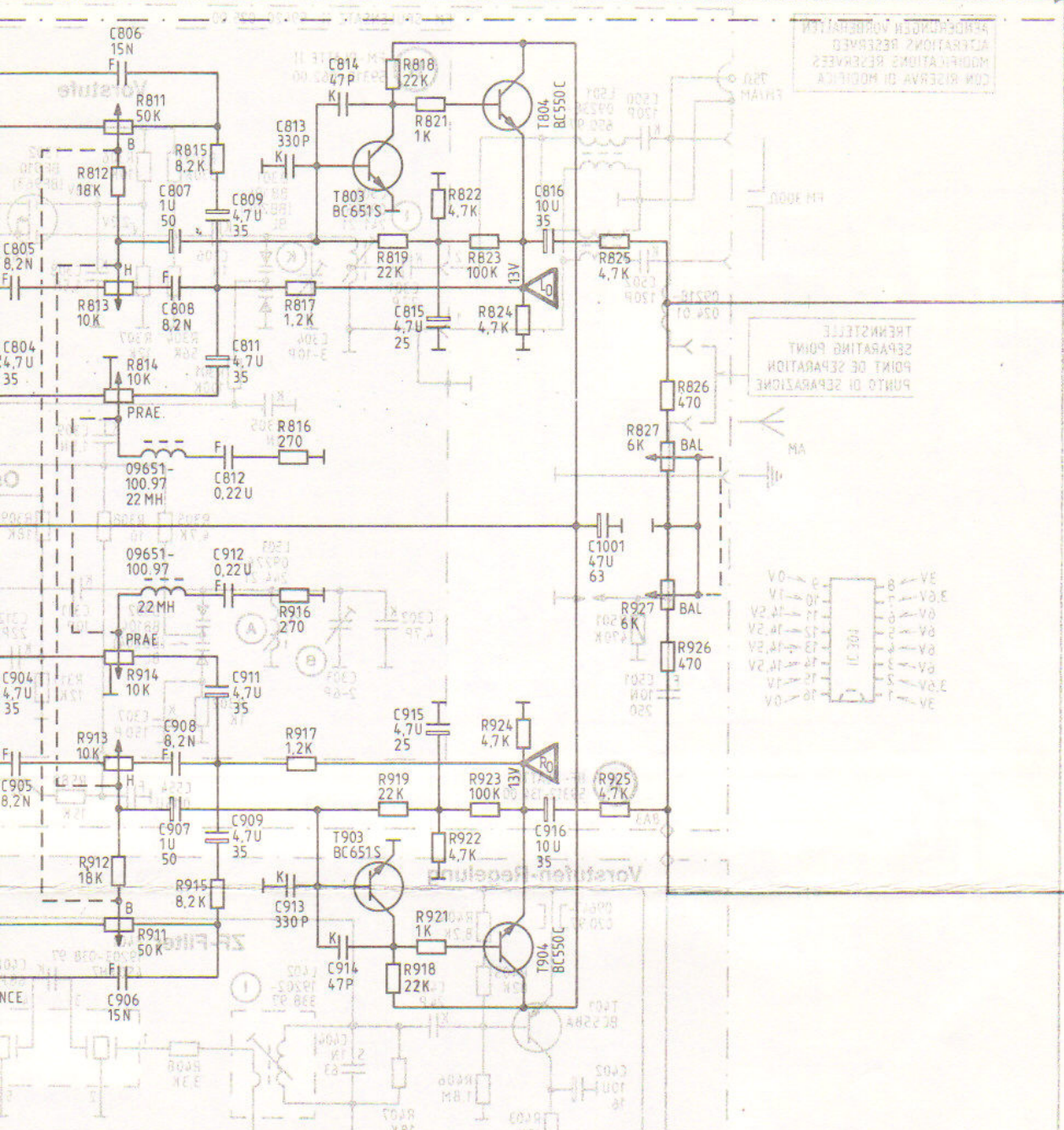
834, 934,	1005, 835, 936, 836, 935,	1006, 937, 1007, 837, 938, 838,	1008, 1009, 841, 839, 939,	862, 963, 864, 965, 863, 865, 962, 964,	842, 1011, 942,	843, 1012, 943, 1013,	1014, 1016, 1015, 1017, 1018,	1, 4, 2, 3,
	1002, 856, 956, 957, 861, 854, 954, 857, 958, 959, 855, 955, 858, 859, 961,				1003, 866, 867, 1004, 966, 967,	1005,	1006,	



B NF-PLATTE
59312-135.00

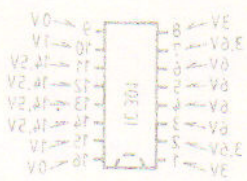
T1001
BD135-1
C1002
100 U
25
C1003
4,7 N

817, 818, 917, 918,	819, 919,	821, 921,	822, 823, 824, 825, 926, 922, 923, 924, 925, 826,	827, 927,	828, 929, 831, 829, 931, 928,	832, 932,	1002, 1003,
828, 929, 831, 932, 829, 832, 928,	833, 834, 935, 836, 933, 835, 936, 934,	837, 937,	838, 839, 938,	841, 842, 943, 941, 843, 844, 942, 944,	845, 846, 847, 848, 948, 852, 945, 946, 947, 849, 949, 952, 851, 951,	852, 952,	853, 953,



ÄNDERUNGEN VORBEHALTEN
 ALTERATIONS RESERVED
 MODIFICATIONS RESERVEES
 CON RISERVA DI MODIFICA

TRENNSTELLE
 SEPARATING POINT
 POINT DE SEPARATION
 PUNTO DI SEPARAZIONE



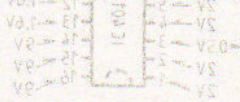
ANDERS ANGE-
 DV NETZSPANNUNG
 OHNE SIGNAL BEI
 ER SAEMTLICHE

SAUF INDICATION CONTRAIRE LES TENSIONS SONT MESUREES PAR RAPPORT AU CHASSIS AVEC UN VOLTMETRE GRUNDIG (RI=10MΩ) LES VALEURS SONT VALABLES POUR UNE TENSION SECTEUR DE 220V CA, L'APPAREIL EN ETAT NON-ECHAUFFE, DANS LES GAMMAS D'ONDES MW UKW MONO SANS SIGNAL, TEMPERATURE AMBIANTE DE 20°C ET REGLAGE DE PUISSANCE FERME. LES TENSIONS SONT A MESURER A TRAVERS UNE RESISTANCE DE SEPARATION.

AGAINST CHASSIS
 FOR 220V AC
 MW FM MONO
 ED VOLUME CONTROL

TENSIONI MISURATE CON VOLTMETRO GRUNDIG (RI=10MΩ) SALVE ALTRE INDICAZIONI, RIFERITE A MASSA I VALORI DI MISURA VALGONO CON TENSIONE DI RETE DI 220V~ E RILEVATI A FREDDO SU ME UKW MONO SENZA SEGNALE, CON TEMPERATURA AMBIENTALE DI 20°C E COL REGOLATORE DI VOLUME A ZERO TUTTE LE TENSIONI SONO MISURATE MEDIANTE UNA RESISTENZA DI SEPARAZIONE.

NUR DURCH ORIGINALBAUTEILE ERSETZEN!
 THESE COMPONENTS BY ORIGINAL COMPONENTS ONLY!
 NE REMPLACET CES COMPOSANTS PAR DES QUE COMPOSANTS ORIGINAUX!
 SOSTITUIRLI SOLO CON PEZZI DI RICAMBIO ORIGINALI!

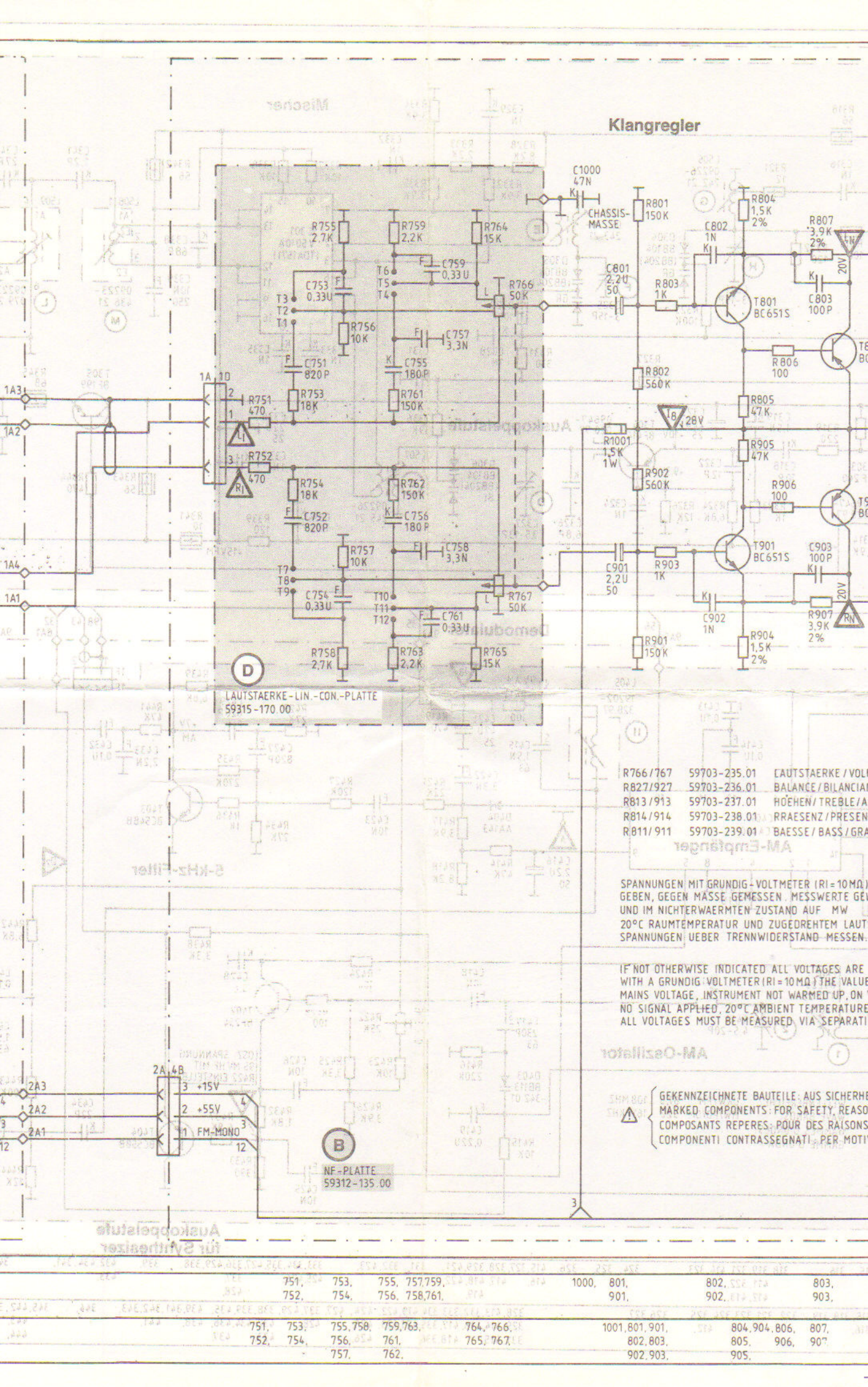


3TTAJ- JUDM- MA
 00 751- 5122

GRUNDIG

R 3000-3
R 3000-3 GB
R 3000-3 U
 (55053-906.01)

4, 805, 806, 807, 907, 911, 912, 813, 814, 815, 816, 1001,	806, 906, 808, 809, 909, 913, 914, 915, 916,	811, 814, 912, 815, 816, 817, 818, 918, 822, 823, 824, 825, 826, 926,
4, 905,	908, 811, 812,	812, 914, 911, 915, 916, 917, 819, 821, 922, 923, 924, 925, 827,
		813, 913, 919, 921, 927,



D
LAUTSTÄRKE-LIN.-CON.-PLATTE
59315-170.00

B
NF-PLATTE
59312-135.00

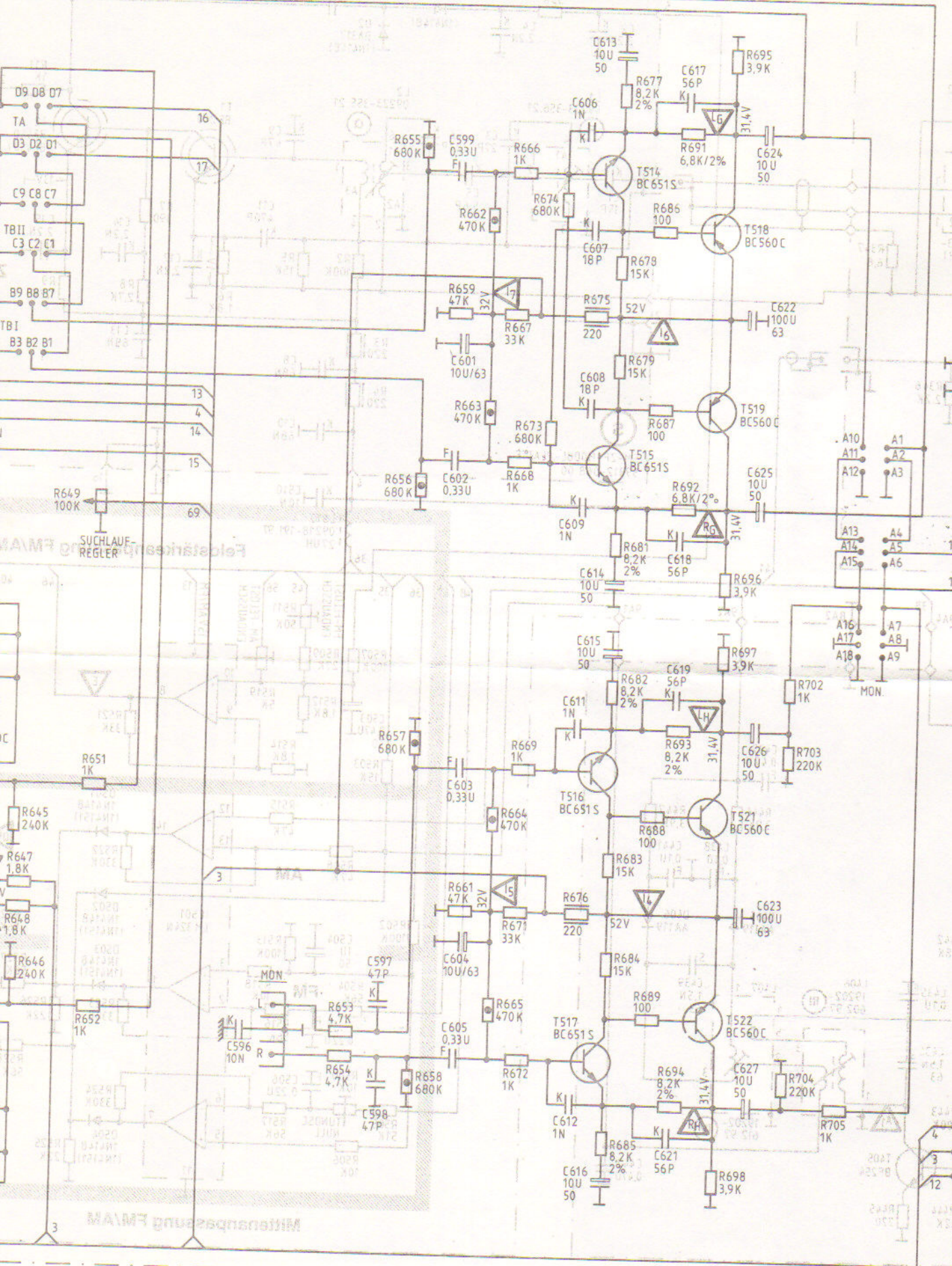
- R766 / 767 59703-235.01 LAUTSTÄRKE / VOLUME
- R827 / 927 59703-236.01 BALANCE / BILANCIAMENTO
- R813 / 913 59703-237.01 HÖHEN / TREBLE / ALTEZ
- R814 / 914 59703-238.01 TIEFEN / BASS / GRAVI
- R811 / 911 59703-239.01 TIEFEN / BASS / GRAVI

SPANNUNGEN MIT GRUNDIG-VOLTMETER (RI = 10 MΩ) GEBEN, GEGEN MASSE GEMESSEN. MESSWERTE GEBEN SIE IM NICHTERWÄRMTE ZUSTAND AUF 20°C RAUMTEMPERATUR UND ZUGEDREHTEM LAUTSTÄRKE-REGLER AUF 10. SPANNUNGEN ÜBER TRENNWIDERSTAND MESSEN.

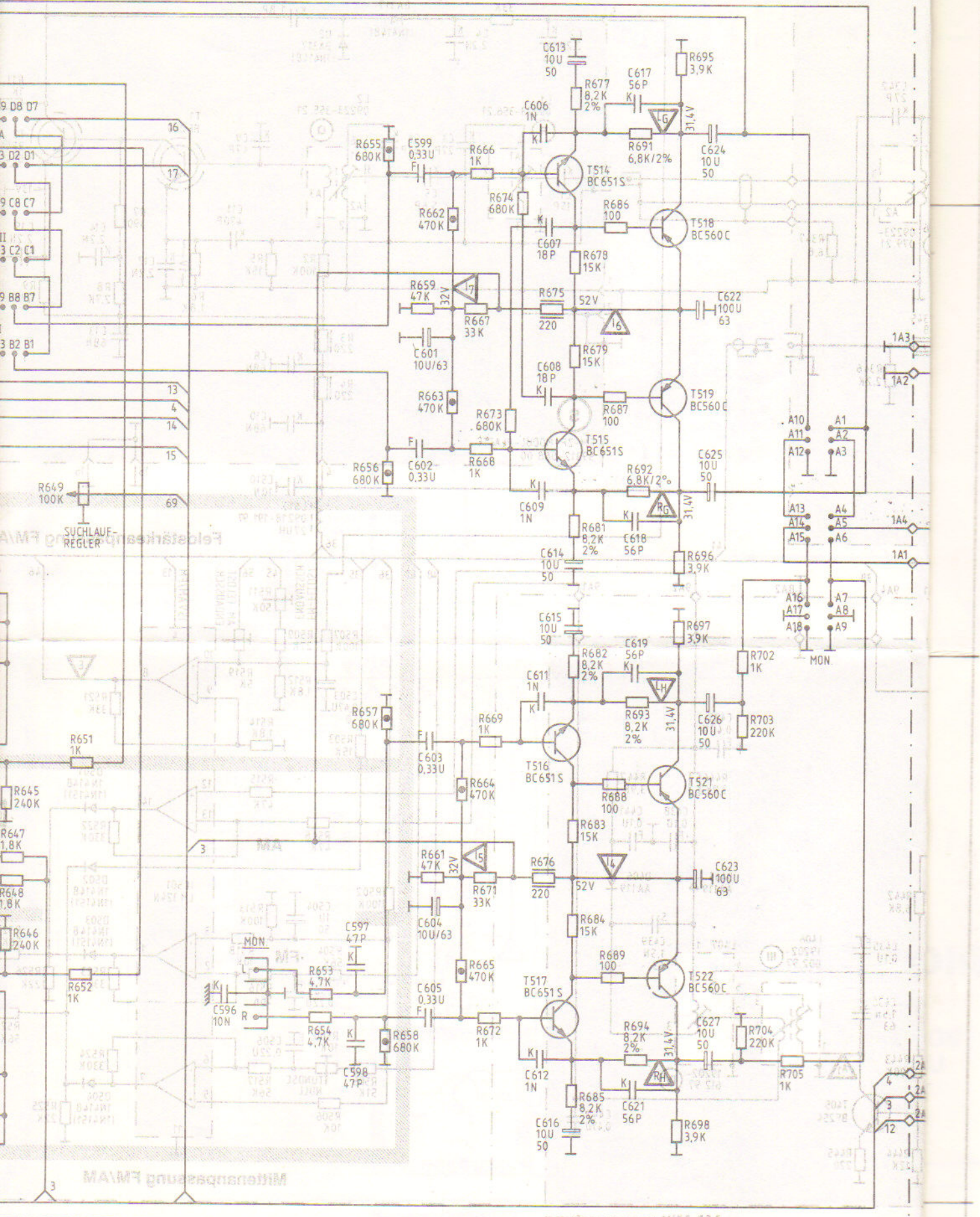
IF NOT OTHERWISE INDICATED ALL VOLTAGES ARE WITH A GRUNDIG-VOLTMETER (RI = 10 MΩ) THE VALUE MAINS VOLTAGE, INSTRUMENT NOT WARMED UP, ON NO SIGNAL APPLIED, 20°C AMBIENT TEMPERATURE. ALL VOLTAGES MUST BE MEASURED VIA SEPARATE TRENNWIDERSTAND.

GEKENNZEICHNETE BAUTEILE: AUS SICHERHEIT GRÜNDE. MARKED COMPONENTS: FOR SAFETY REASONS. COMPONENTS REPÉRÉS: POUR DES RAISONS DE SÛRETÉ. COMPONENTI CONTRASSEGNA TI, PER MOTIVI DI SICUREZZA.

751	753	755, 757, 759	1000	801	802, 802	803
752	754	756, 758, 761		901	902, 902	903
751	753	755, 758, 759, 763		1001, 801, 901		804, 904, 806, 807
752	754	756, 761, 765, 767, 768		802, 803	805	805, 906, 907
	757	762		902, 903	905	

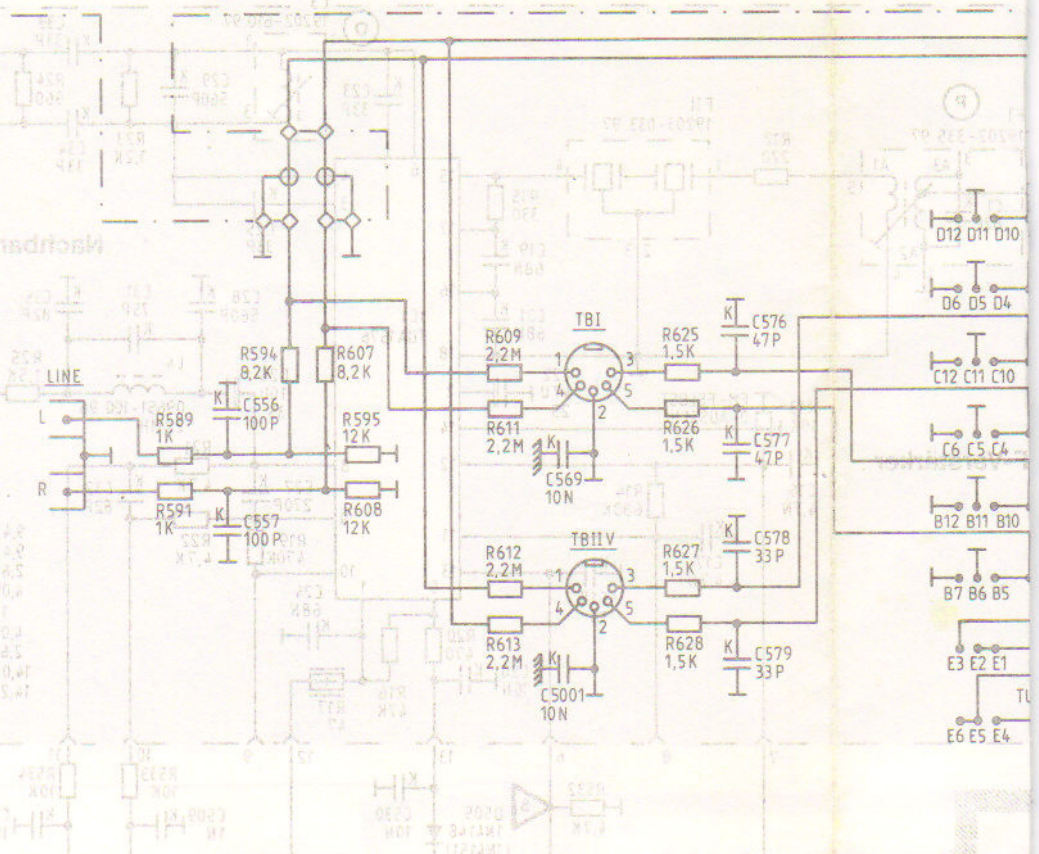


45, 646,	649,	596,	597,	599, 603,	606, 609, 613, 616, 617, 621,	622, 624, 627,
47,	651,	598,	598,	601, 604,	607, 611, 614,	618,
48,	652,	602, 605,	602, 605,	608, 612, 615,	619,	623, 625,
		653,	655, 658, 661, 662, 665, 668, 672, 675, 678, 682,	685, 688, 692, 695, 698,	702,	705,
		654,	656, 659,	663, 666, 669, 673, 676, 679, 683,	686, 689, 693, 696,	703,
			657,	664, 667, 671, 674, 677, 681, 684, 687, 691, 694, 697,		704,

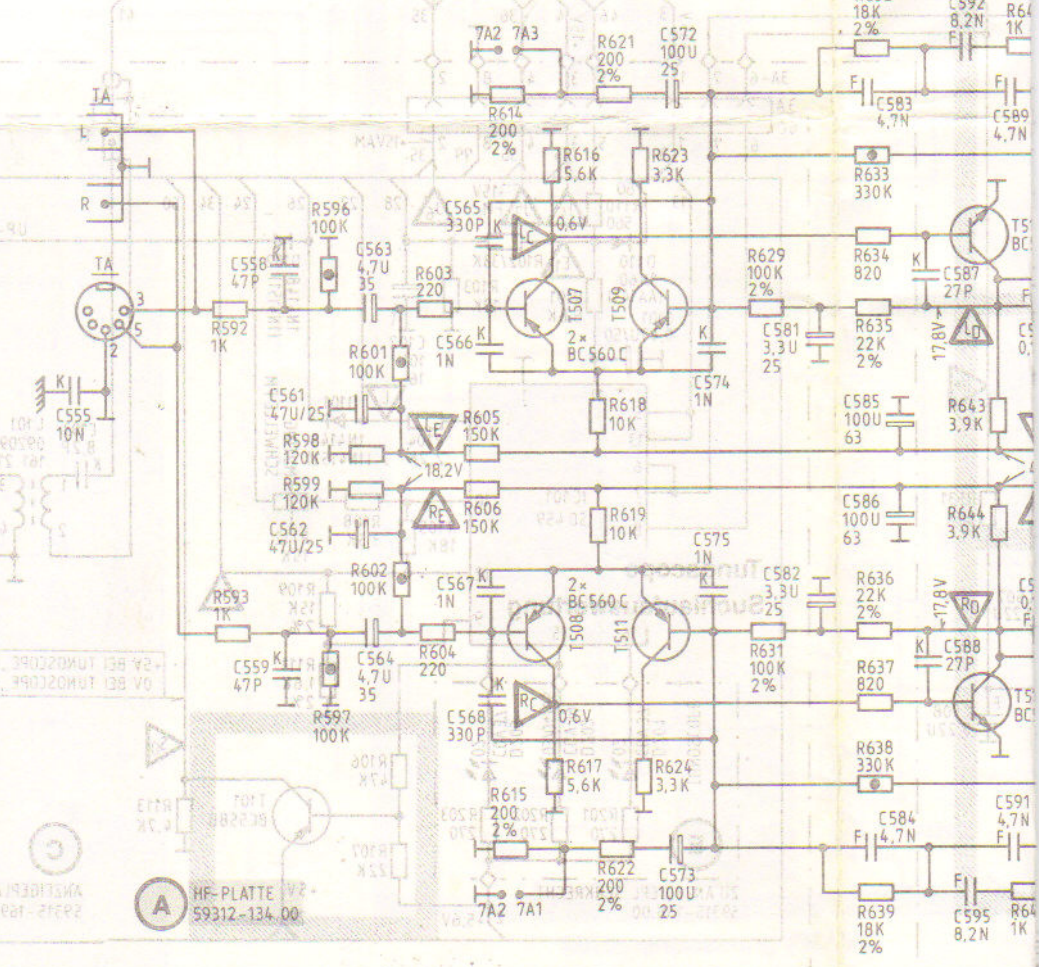


596.	597.	599, 603.	606, 609, 613, 616, 617, 621.	622, 624, 627.
645, 646.	649.	601, 604.	607, 611, 614.	618.
647.	652.	602, 605.	608, 612, 615.	619.
648.	652.	653.	655, 658, 661, 662, 665, 668, 672, 675, 678, 682, 685, 688, 692, 695, 698.	702.
		654.	663, 666, 669, 673, 676, 679, 683, 686, 689, 693, 696.	703.
		657.	664, 667, 671, 674, 677, 681, 684, 687, 691, 694, 697.	704.

TR II VORNE
 AUFNAHME MONO, AUFNAHME STEREO LINKS
 MASSE
 WIEDERGABE MONO, WIEDERGABE STEREO LINKS
 AUFNAHME STEREO RECHTS
 WIEDERGABE STEREO RECHTS
TR II FRONT
 RECORDING MONO, RECORDING LH STEREO
 MASSA
 PLAYBACK MONO, PLAYBACK LH STEREO
 RECORDING RH STEREO
 PLAYBACK RH STEREO
MAG II AVANT
 NR. MONO, ENR. STEREO CANAL GAUCHE
 MASSE
 LECTURE MONO, LECTURE STEREO-CANAL GAUCHE
 ENREGISTREMENT STEREO CANAL DROIT
 LECTURE STEREO CANAL DROIT
TR II ANTERIORE
 PRESA MONO, PRESA STEREO SINISTRO
 MASSA
 RIP. MONO, RIP. STEREO SINISTRO
 PRESA STEREO DESTRO
 RIPRODUZIONE STEREO DESTRO
TR II
 MASSE/CHASSIS/MASSE/MASSA
 STEREO LINKS / STEREO LH CHANNEL
 STEREO CANAL GAUCHE / STEREO SINISTRO
 STEREO RECHTS / STEREO RH CHANNEL
 STEREO CANAL DROIT / STEREO DESTRO

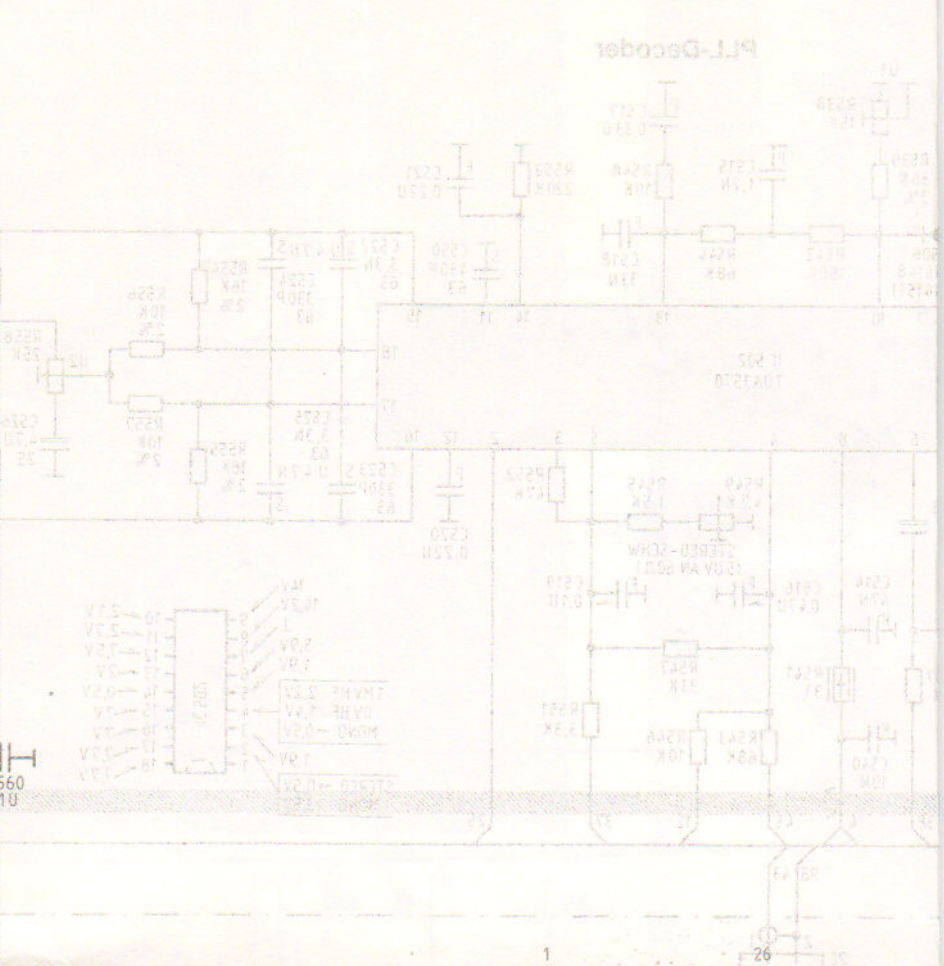
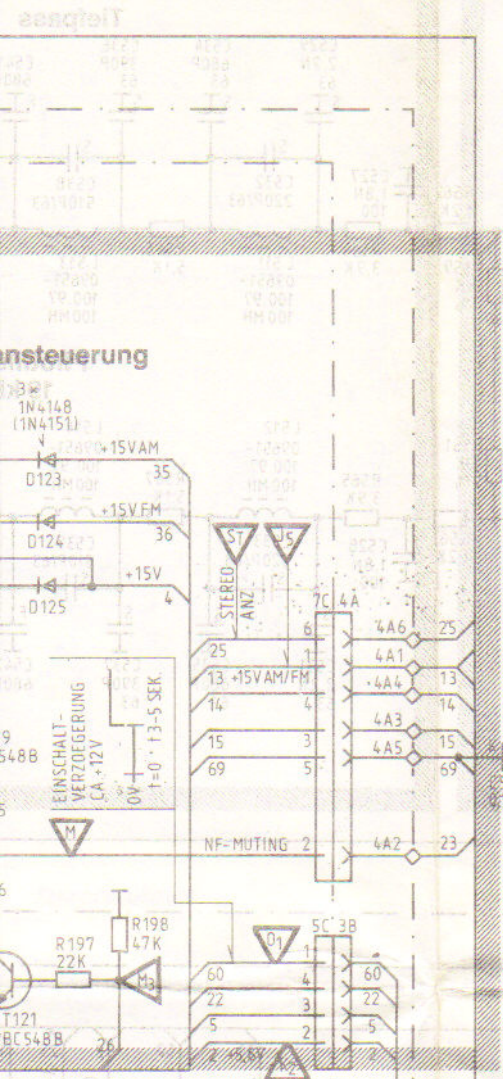


TA-Entzerrer

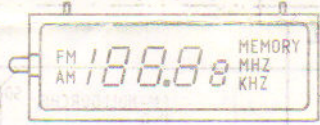


A HF-PLATTE
 59312-134.00

555,	556,	558,	561,563,	565,568,	569,	572,574,576,579,581,	583,585,587,592,589,
		559,	562,564,	566,	5001,	573,575,577,	582,584,586,588,595,591,
				567,			578,
589,592,	594,607,595,599,	603,605,611,614,	617,621,624,627,	629,	632,635,638,	643,641	
591,593,	596,608,601,604,606,612,615,	618,622,625,628,	631,	633,636,639,	644,642		
	597,598,602,	609,613,616,619,623,626,		634,637,			



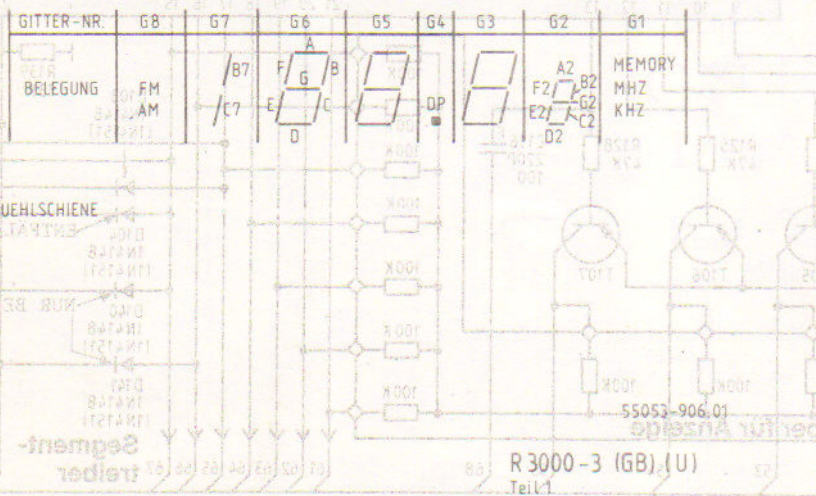
FLUORESCENZ-ANZEIGE-ROEHRE
09623-325 01



ANSCHLUSSBELEGUNG

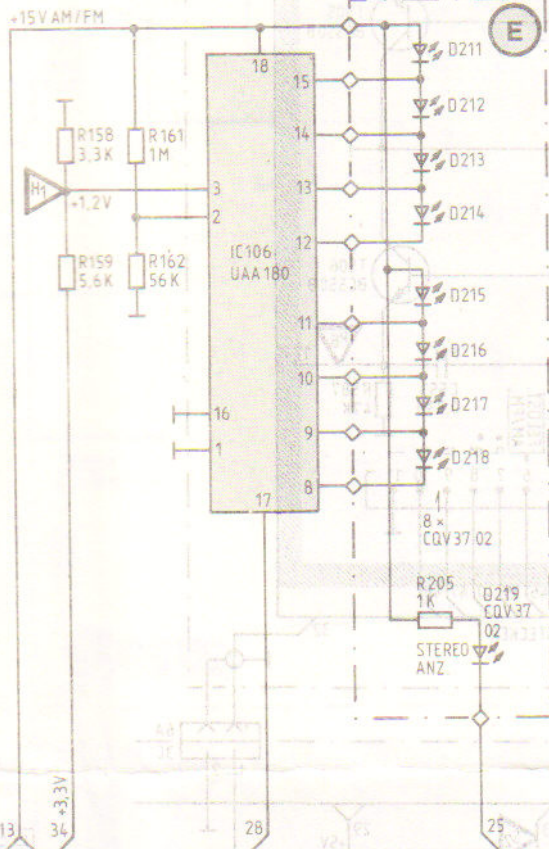
ANSCHLUSS-NUMMER	1	2	3	4	5	6	7	8	9	10	11	12	13
ELEKTRODE	HEI-ZUNG	FM/MHZ	AM/KHZ	G8	ANODE (B7)	ANODE (C7)	G7	ANODE (D)	ANODE (E)	G6	ANODE (G)	ANODE (F)	ANODE (A)

ANSCHLUSS-NUMMER	14	15	16	17	18	19	20	21	22	23	24	25	26
ELEKTRODE	G5	ANODE (B)	G4	G3	ANODE (C)	G2	ANODE (A2 DP)	ANODE (G2, C2, F2)	G1	ANODE (G2)	ANODE (B2, E2)	MEMORY	HEI-ZUNG



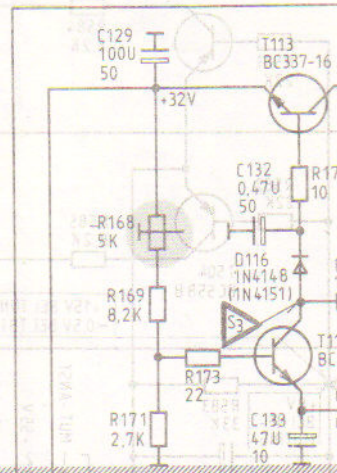
R 3000-3 (GB) (U)
Teil 1

Feldstärkeanzeige

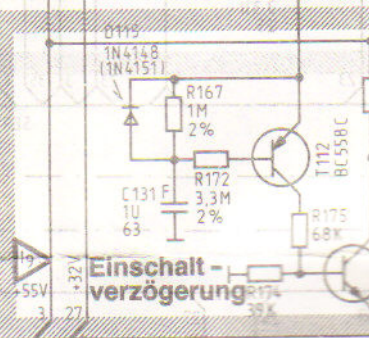


ZU ANZEIGEPL. SENKRECHT
S9315-168.00

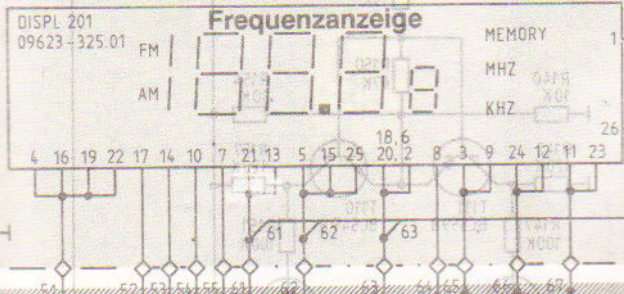
32-V-Netzteil



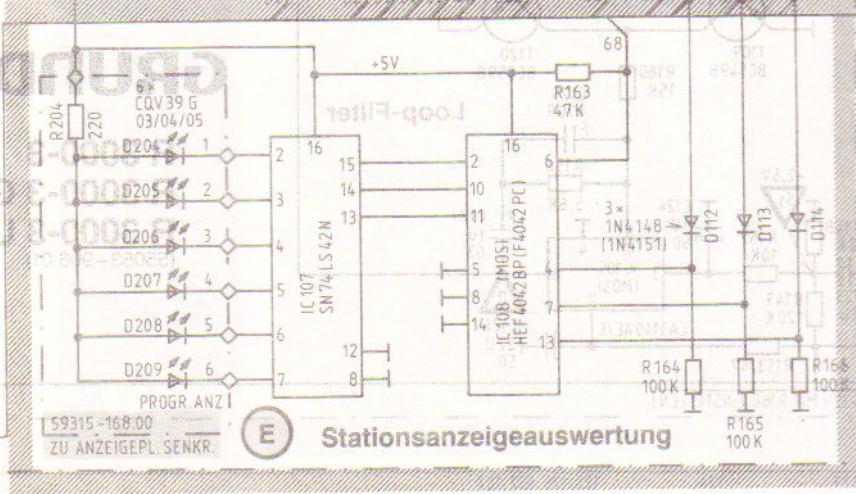
Einschaltverzögerung



Frequenzanzeige

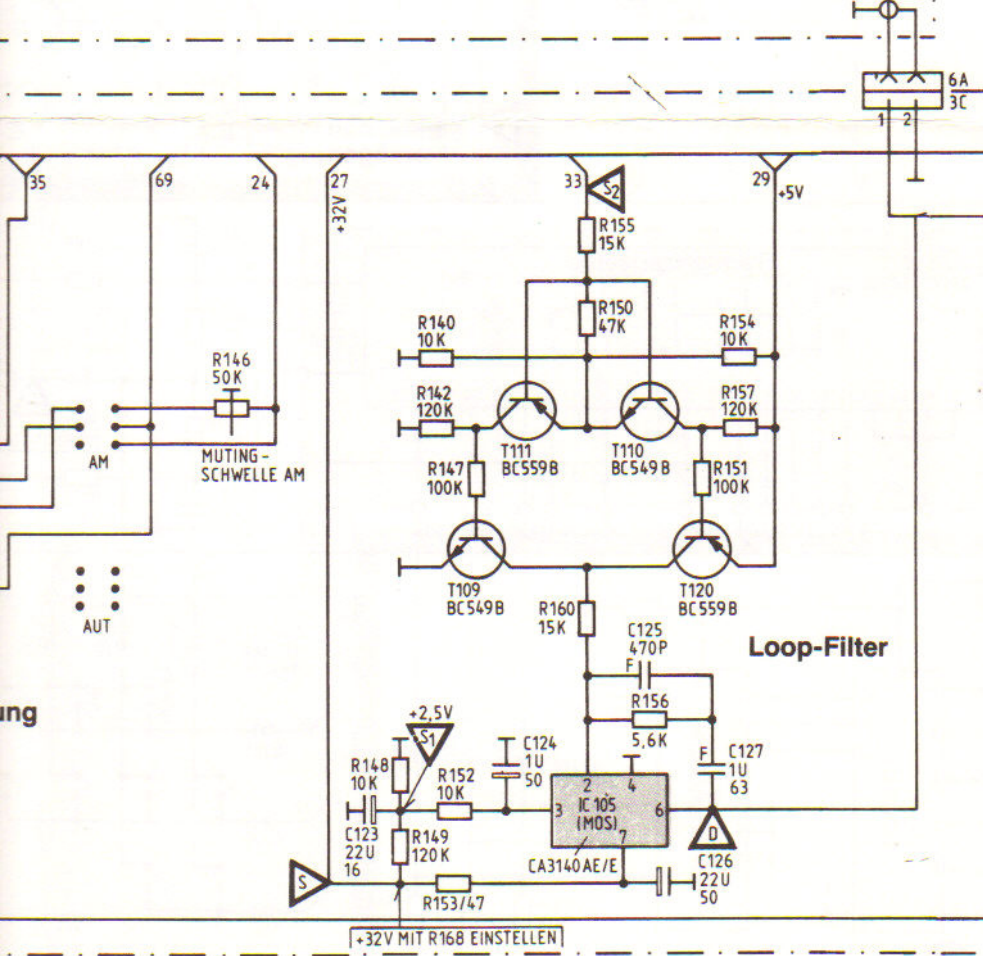
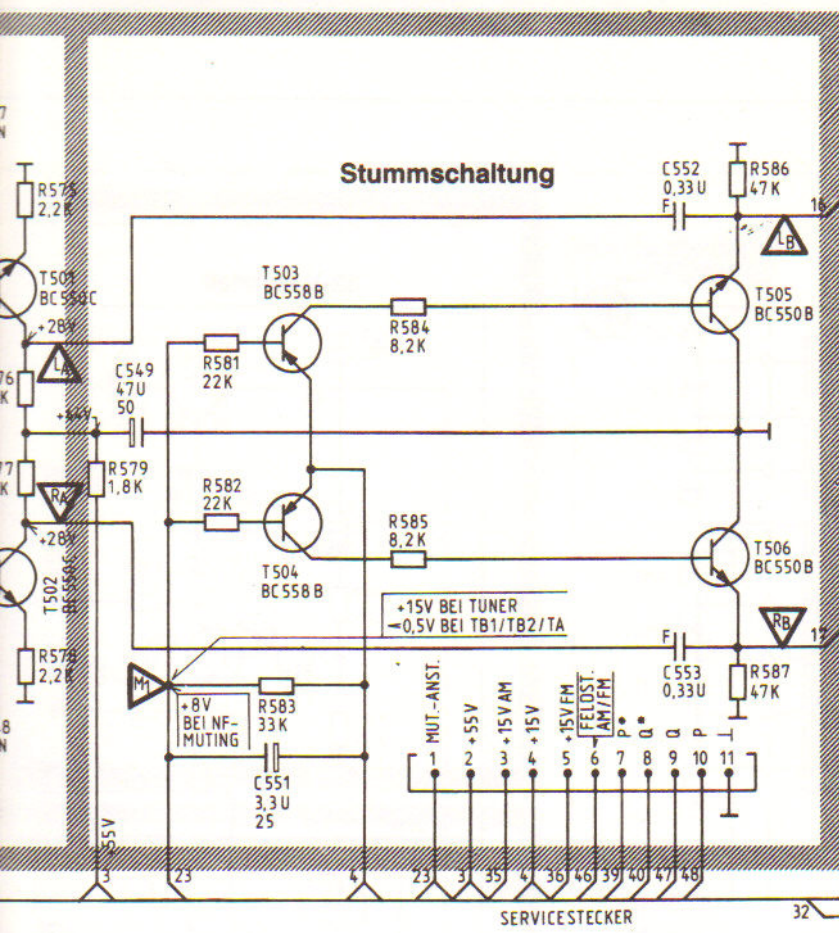


Stationsanzeigerauswertung



S9315-168.00
ZU ANZEIGEPL. SENKR.

204.	158.	161.	205, 163.	164.	165.	166.	167, 168, 172, 173, 174, 175, 176.
	159.	162.					169, 177, 178.



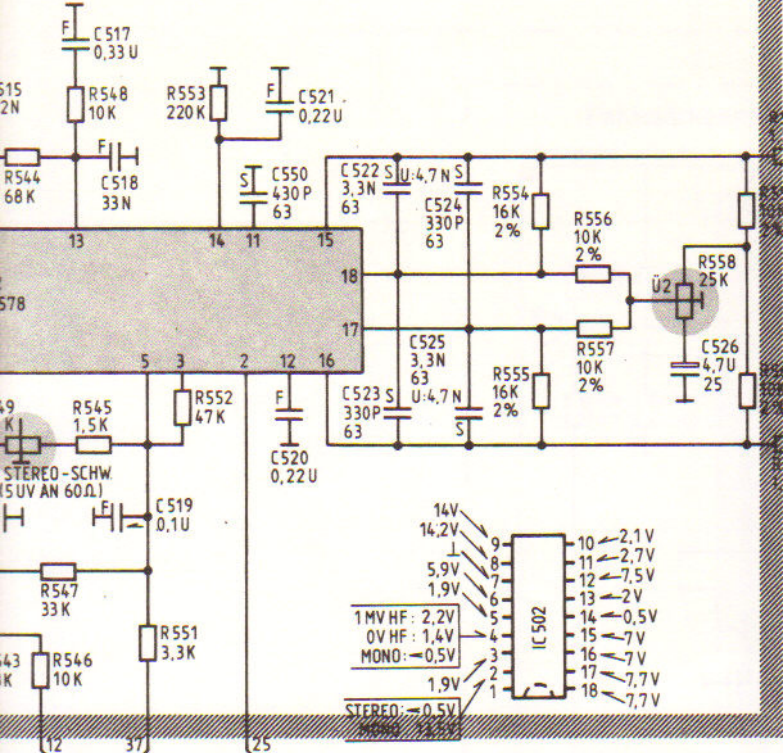
1,25V BEI 522 KHZ / 2,4V BEI 88 MHZ
27,5V BEI 1611 KHZ / 16V BEI 106 MHZ

GRUNDIG

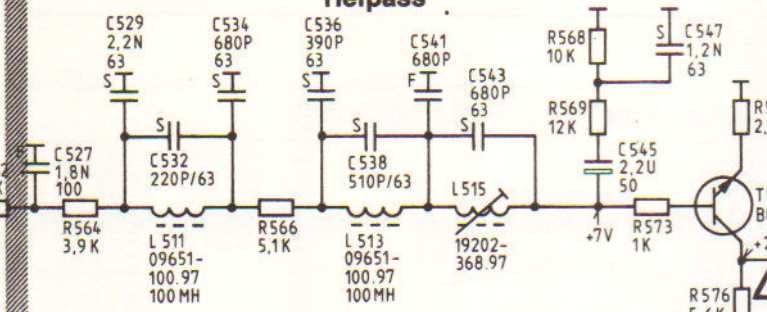
R 3000-3
R 3000-3 GB
R 3000-3 U
(55053-906.01)

549,	551,	123,	124,	125,126,552,127, 553,
575,578, 579,	581,146, 583,	584, 148, 140, 142,	155, 156, 151,586, 154,	
576,	582,	585, 149, 152, 147,	150, 587, 157,	
577,		153,	160,	

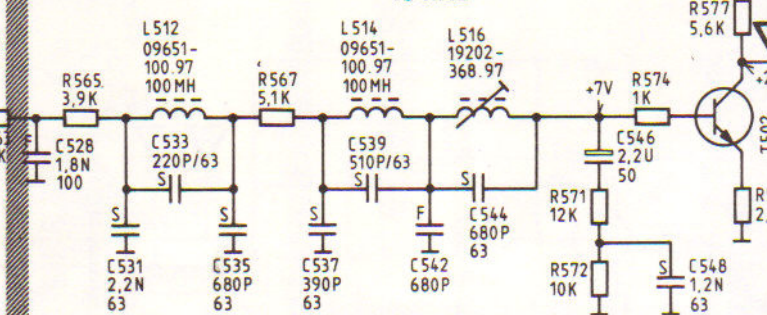
LL-Decoder



Tiefpass

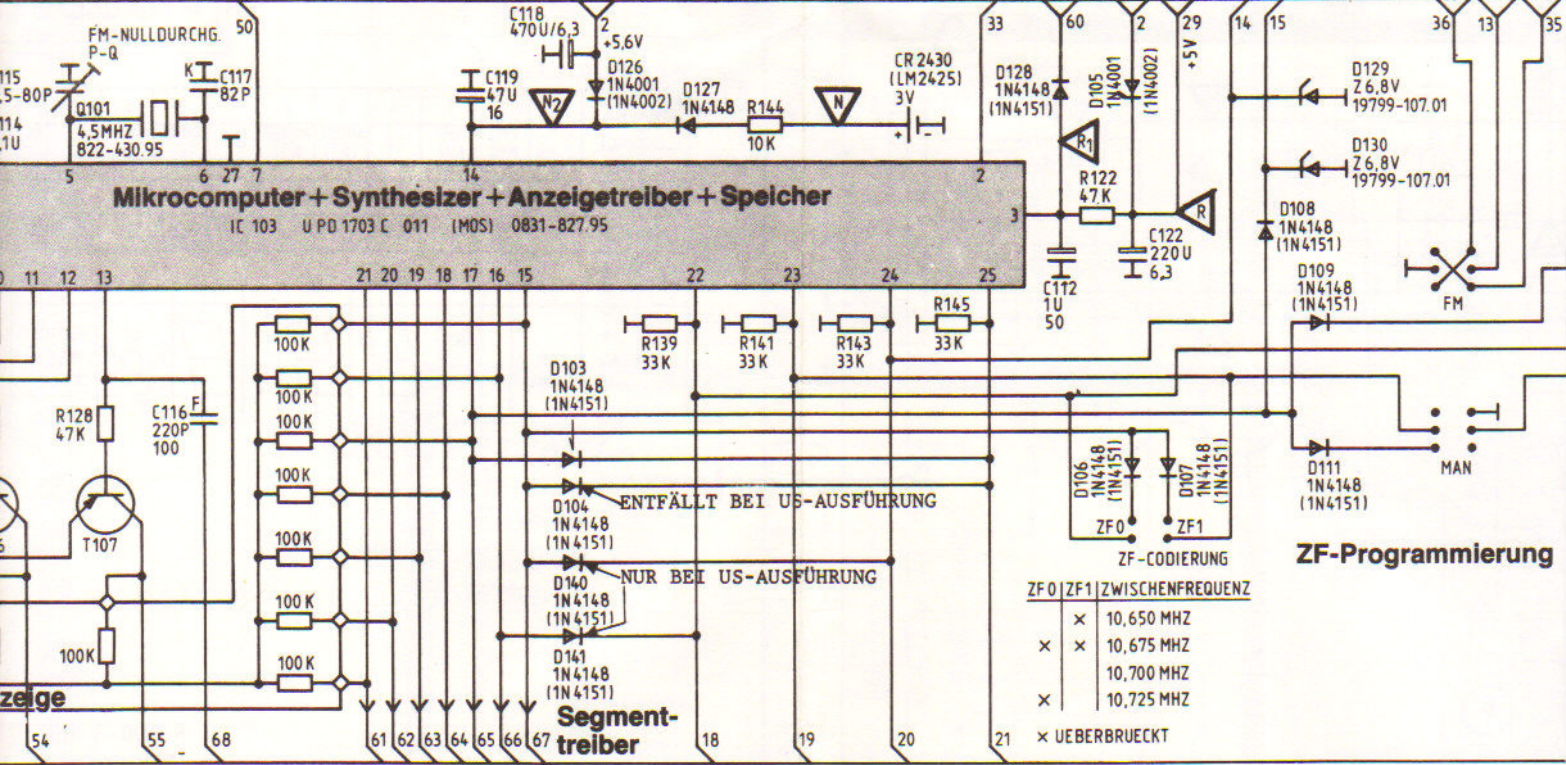


Pilotfilter 19 kHz



Mikrocomputer + Synthesizer + Anzeigetreiber + Speicher

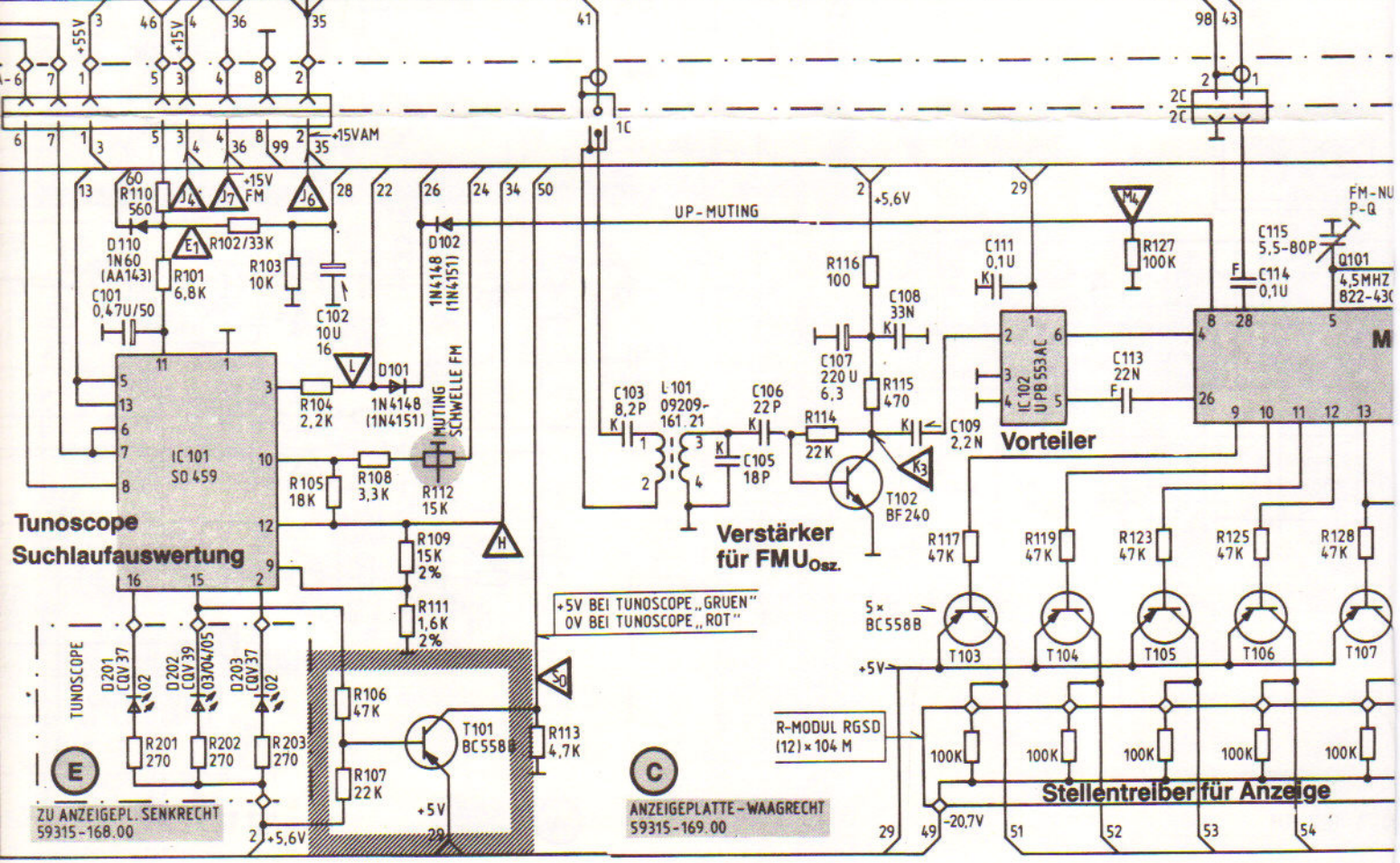
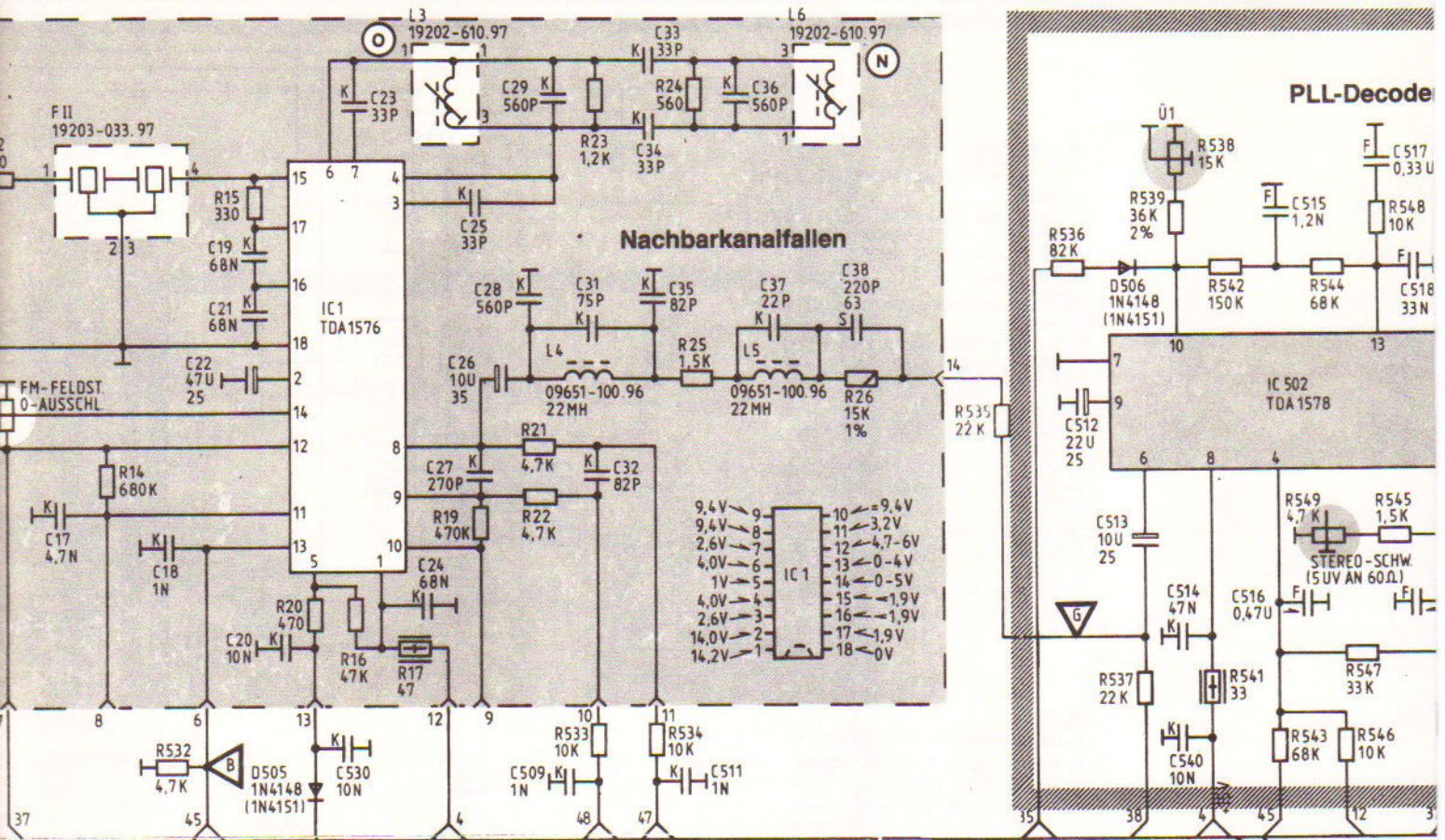
IC 103 U PD 1703 C 011 (MOS) 0831-827.95



ZF-Programmierung

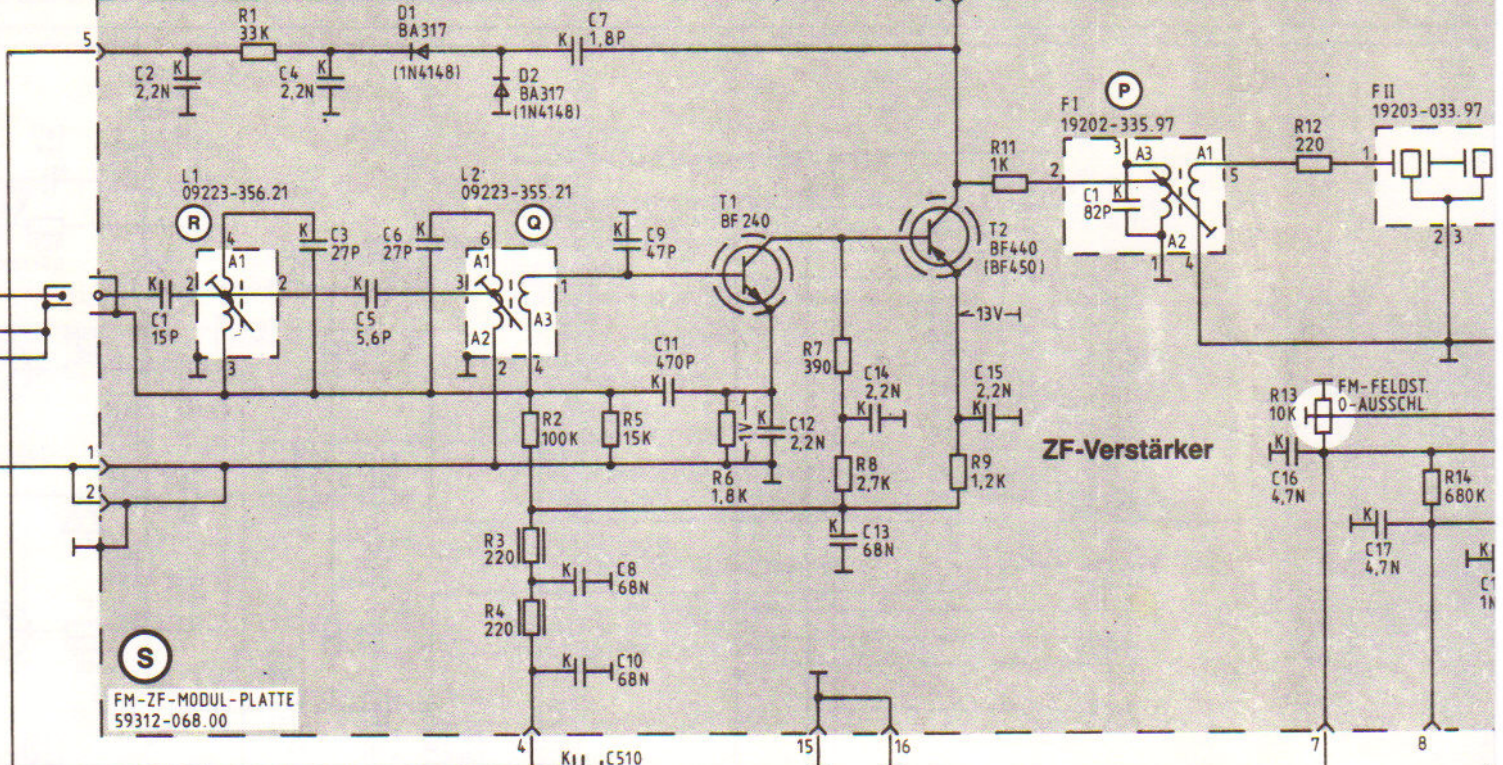
516, 517, 518, 519, 544, 547, 548, 549, 545, 546,	117, 116, 550, 521, 520,	117, 522, 523, 524, 525,	118, 526,	527, 528,	529, 532, 534, 535,	112, 145,	536, 538, 541, 542, 543, 544,	545, 546,	547, 548,	568, 572, 573, 574, 576, 577,
544, 547, 548, 128, 551, 552, 553,			554, 556, 139, 558, 559, 562, 564, 145,	567,	566, 122,					

Diskriminator

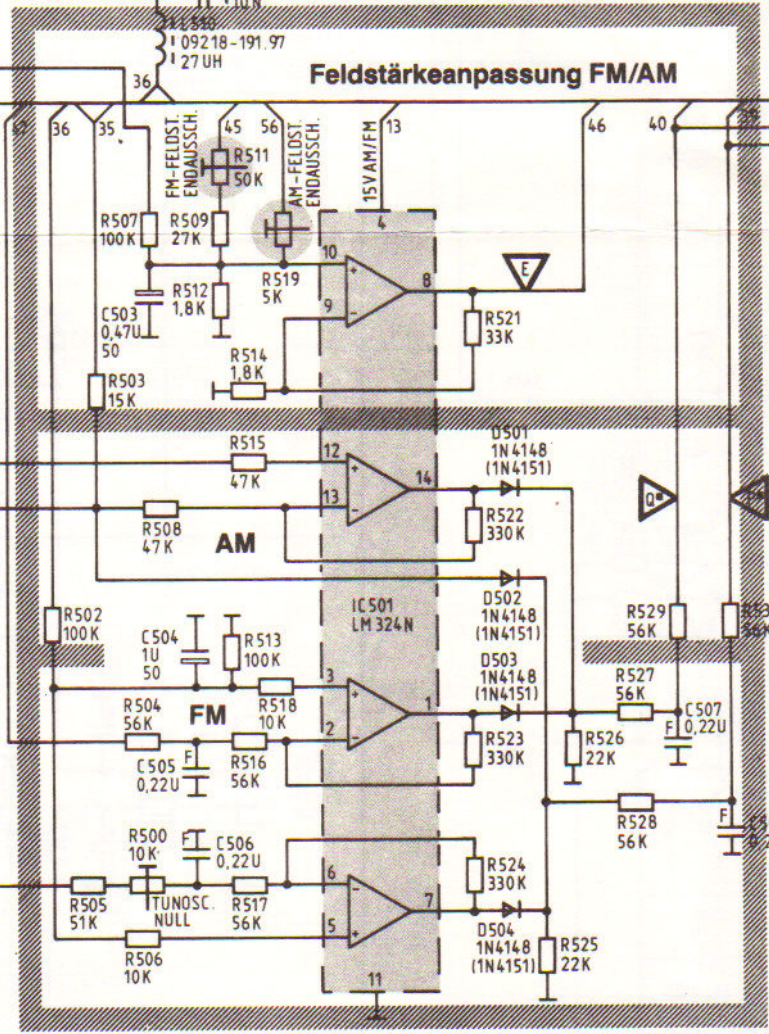


Sendererkennung

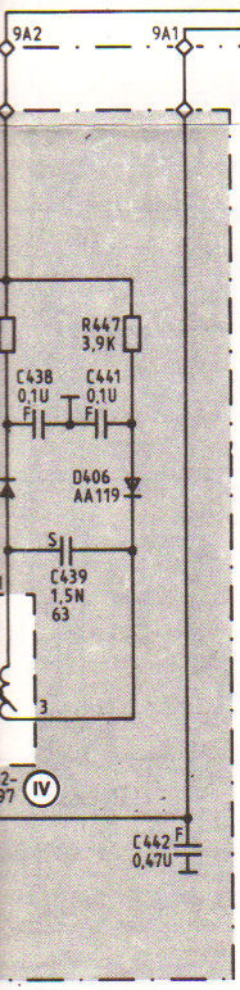
101,	530,	509,	103, 511,	105, 106,	107,	108, 109,	111,	512,	513, 514,	515, 516,	517, 518,
	102,								113, 540,	114,	115, 519,
201, 532, 202, 102, 203, 103,	104, 106, 108, 109, 112,	113, 533,	534,	114,	116,	117, 535,	536, 119,	537, 538, 542,	543, 544, 547, 548, 128,	545,	546,
101,	105, 107,	111,		115,				127, 539, 541,	125, 549,	545,	



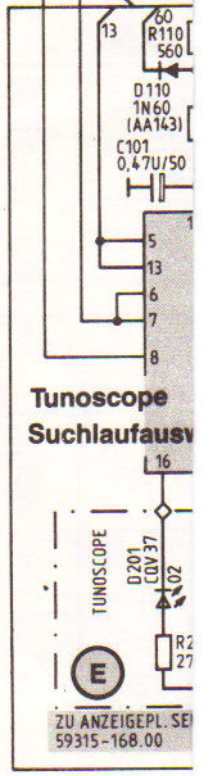
Feldstärkeanpassung FM/AM



Mittenauswertung

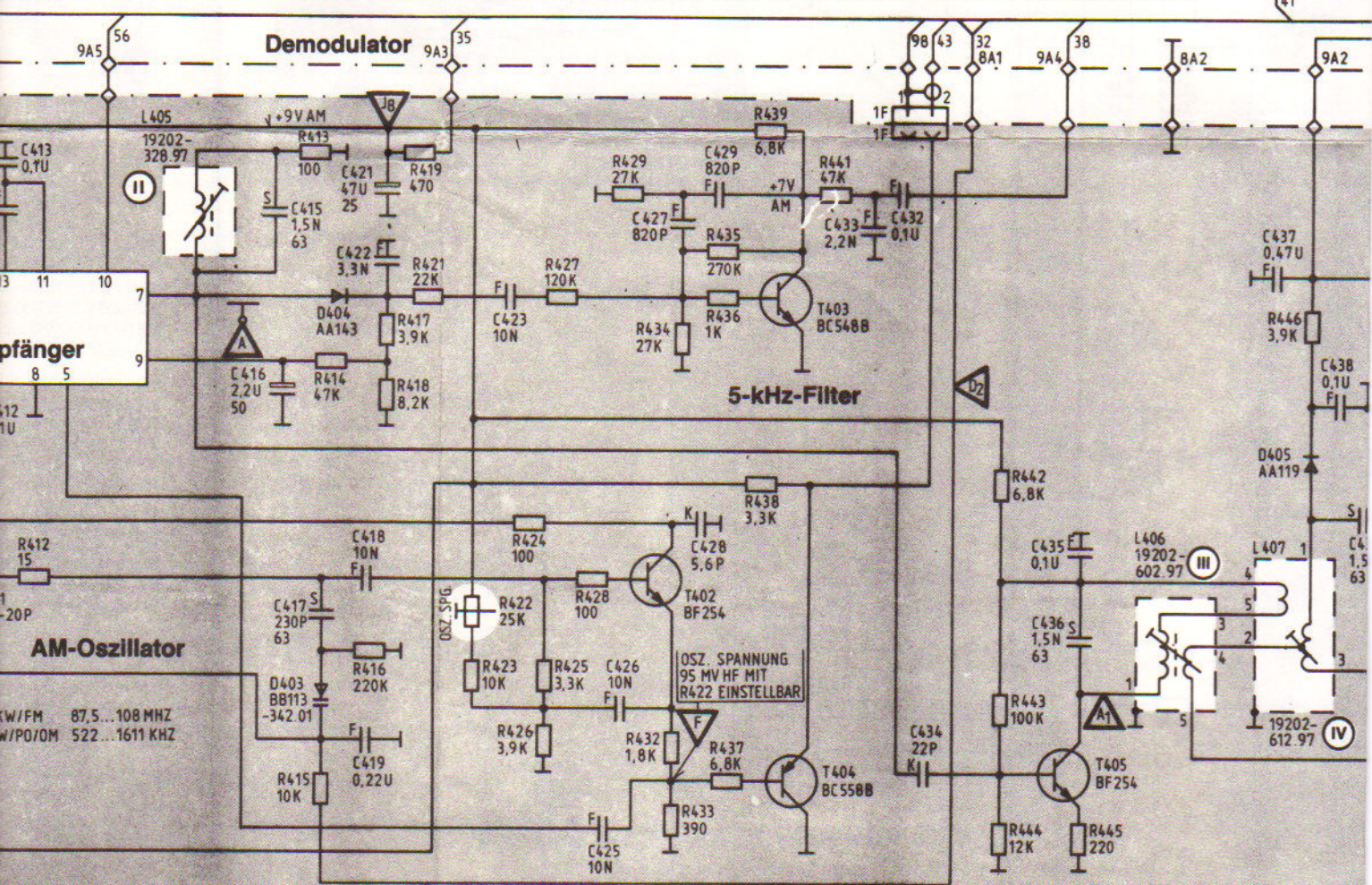
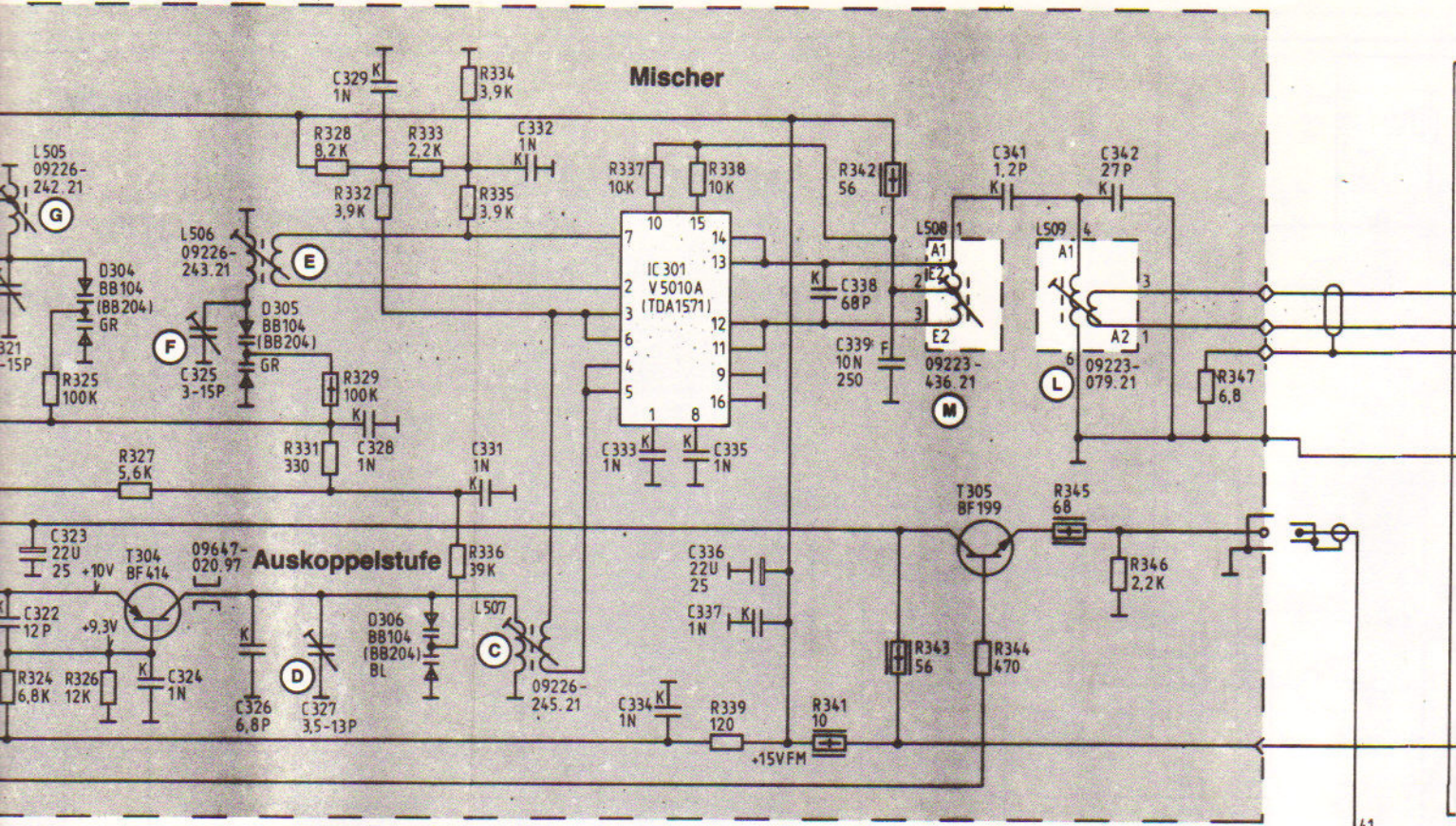


Tunoscope Suchlaufausv



-Mittenauswertung

438, 441, 442, 439,	503, 504, 510, 505, 506,	509, 513, 516, 519, 511, 514, 517, 512, 515, 518	521, 524, 525, 526, 522, 523,	527, 529, 531, 528,	201, 51
---------------------	--------------------------	--	-------------------------------	---------------------	---------



Auskoppelstufe für Synthesizer

AM-Mittel

414, 323,	324, 325, 326,	415, 327, 328, 329, 421,	331, 332, 423,	333, 334, 335, 427, 336, 429, 338,	339,	432, 434, 341,	342, 435,	437, 438,
		416, 417, 418, 422,		425, 426,	337,	433,	436,	439,
		419,			428,			
324, 325,	326, 327,	328, 413, 332, 333, 334, 419, 422, 424,	427, 337, 429, 338, 339, 435,	439, 341, 342, 343,	344,	345, 442, 346, 445,	347,	446,
412,		329, 414, 416, 417, 335, 421, 423, 425	428,	432, 434, 436, 438,	441,	443,		
		331, 415,	418, 336,	426,	433,	437,		

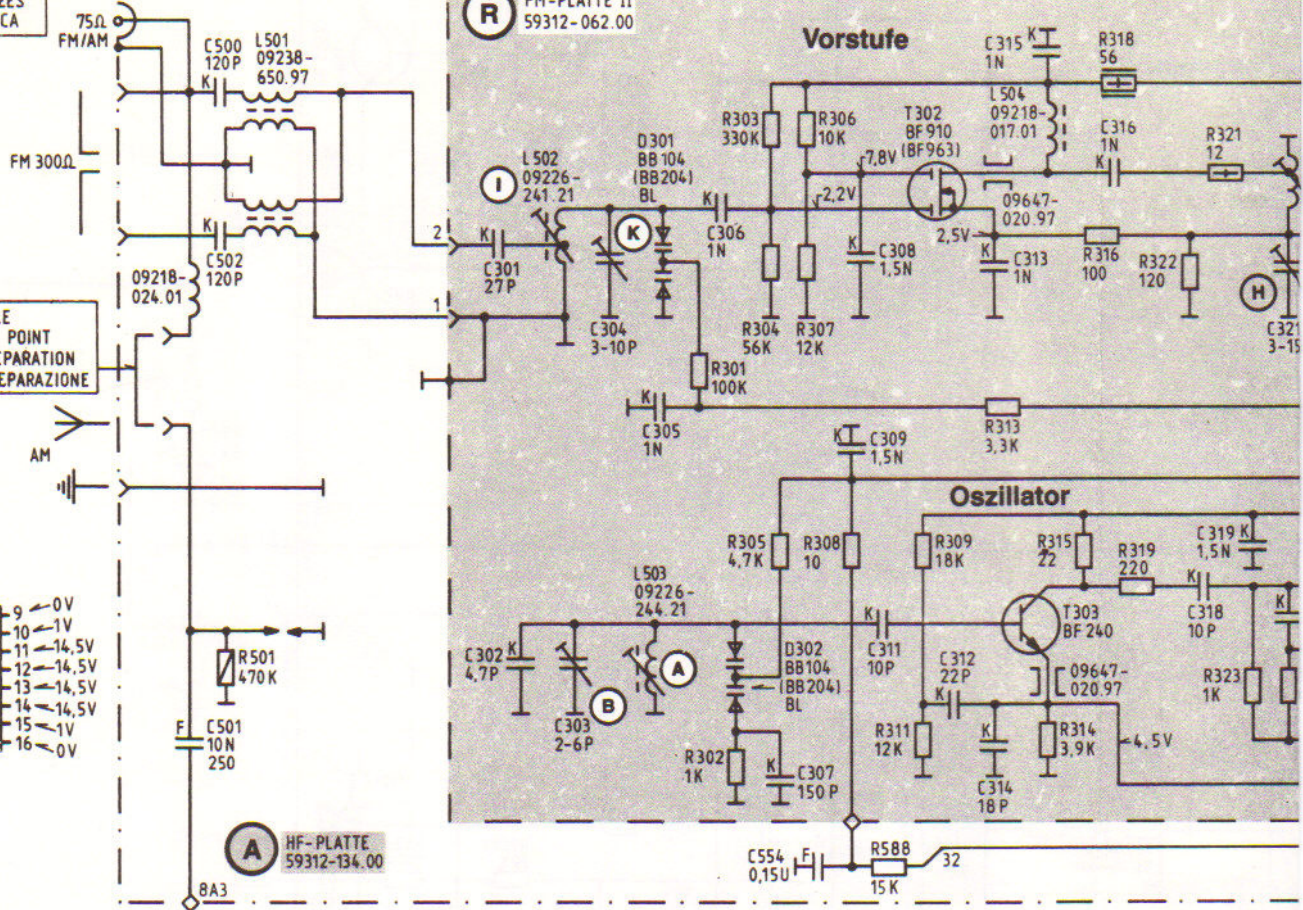
ÄNDERUNGEN VORBEHALTEN
 LTERATIONS RESERVED
 MODIFICATIONS RESERVEES
 ON RISERVA DI MODIFICA

FM-SPULENSATZ II 59420-025.00

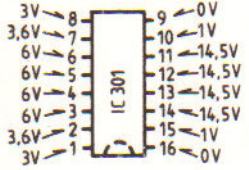
(R) FM-PLATTE II
 59312-062.00

Vorstufe

Oszillator



TRENNSTELLE
 SEPARATING POINT
 POINT DE SEPARATION
 PUNTO DI SEPARAZIONE

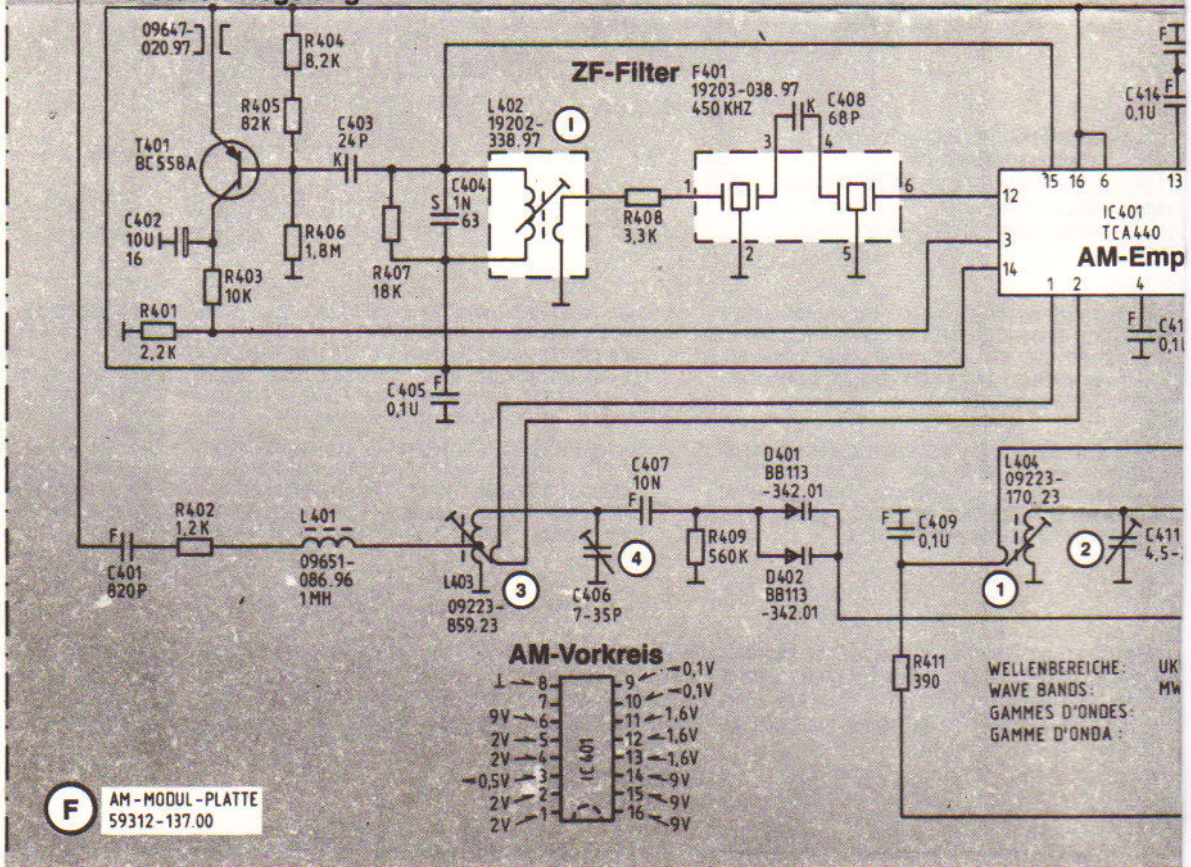


(A) HF-PLATTE
 59312-134.00

Vorstufen-Regelung

ZF-Filter

AM-Vorkreis



(F) AM-MODUL-PLATTE
 59312-137.00

WELLENBEREICHE: UK
 WAVE BANDS: MW
 GAMMES D'ONDES: MW
 GAMME D'ONDA: MW

C	501, 500, 401, 402, 502,	403, 301, 302, 303, 404, 405,	304, 305, 406,	306, 407, 307, 554, 408,	308, 311, 312, 309, 408,	313, 409, 315, 316, 314,	318, 319, 321, 411, 322, 412, 413,
R	501, 401, 402, 403, 404, 405, 406,	407,	301, 302, 303, 306, 308, 588, 309, 408, 304, 307, 305, 409,	313, 314, 315, 318, 319, 411, 316,	322, 321, 323, 31,		