

G1789

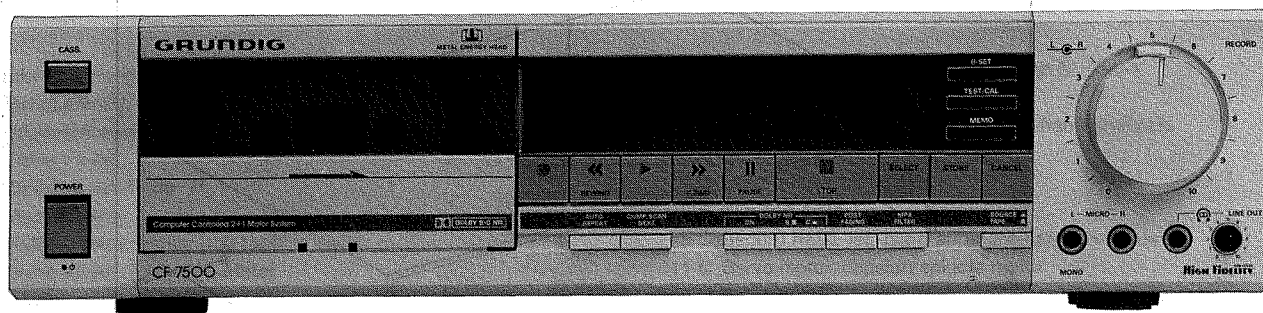
GRUNDIG SERVICE MANUAL



D Btx * 32700 #

4/86

CF 7500



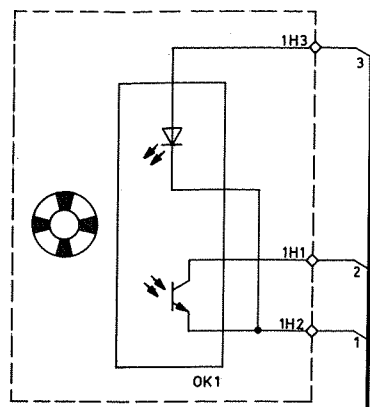
Inhaltsverzeichnis

Mechanischer Teil	Seite
Allgemeines zum mechanischen Teil	2
1. Gehäuse abnehmen	2
2. Laufwerk CL 200-7 ausbauen	2
3. Steckverbindungen zum Laufwerk CL 200-7	3
4. Riemenwechsel	3
5. Schwungscheibe wechseln	3
6. Motorwechsel	4
7. Wickelteller	4
8. Andruckrollenhalter wechseln	4
9. BandlaufEinstellung	5
10. Aufwickelmoment bei Start	5
11. Grundbremsung bei Start	5
12. Gleichlauf	5
13. Kopfwechsel	5
Elektrischer Teil	
Allgemeines zum elektrischen Teil	6
Fehlerhinweise	7
1. Leistungsaufnahme	8
2. Spannungsprüfung	8
3. Umspulzeit	8
4. Bandgeschwindigkeit	8
5. AW-Kopfspalt-Senkrechtstellung	8
6... 12. Elektrische Messungen und Anforderungen	9...15
Explosionszeichnung Laufwerk CL 200-7	17
Druckplattenabbildungen	18...22
Blockschaltbild	23, 24
Schaltbild	25...46
Ersatzteilliste	47...50

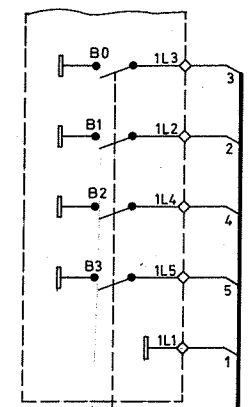
Contents

Mechanical section	Page
General information on the mechanical section	2
1. Opening cabinet	2
2. Removing drive mechanism CL 200-7	2
3. Plug connections to drive mechanism CL 200-7	3
4. Replacing drive belt	3
5. Replacing flywheel	3
6. Replacing motor	4
7. Replacing spool carrier	4
8. Replacing pinch roller arm	4
9. Adjusting tape transport	5
10. Winding moment at start	5
11. Basic brake at Start	5
12. Synchronization	5
13. Replacing head	5
Electrical Section	
General information on the electrical Section	6
Notes on faults	7
1. Power consumption	8
2. Voltage check	8
3. Tape winding time	8
4. Tape speed	8
5. R/P head alignment, vertical adjustment	8
6... 12. Measurement and requirement	10...16
Exploded view CL 200-7	17
Illustration of printed platen	18...22
Block Circuit diagram	23, 24
Circuit diagram	25...46
Spare Parts List	47...50

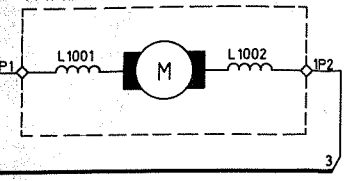
OPTOKOPPLER - PLATTE
OPTOCOUPLER - BOARD (H)



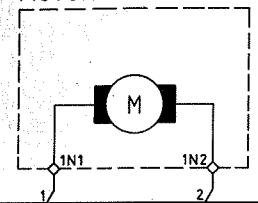
SERVO - PLATTE
SERVO - BOARD (L)



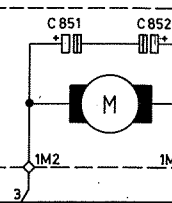
WICKELMOTOR
WINDING MOTOR UNIT (P)



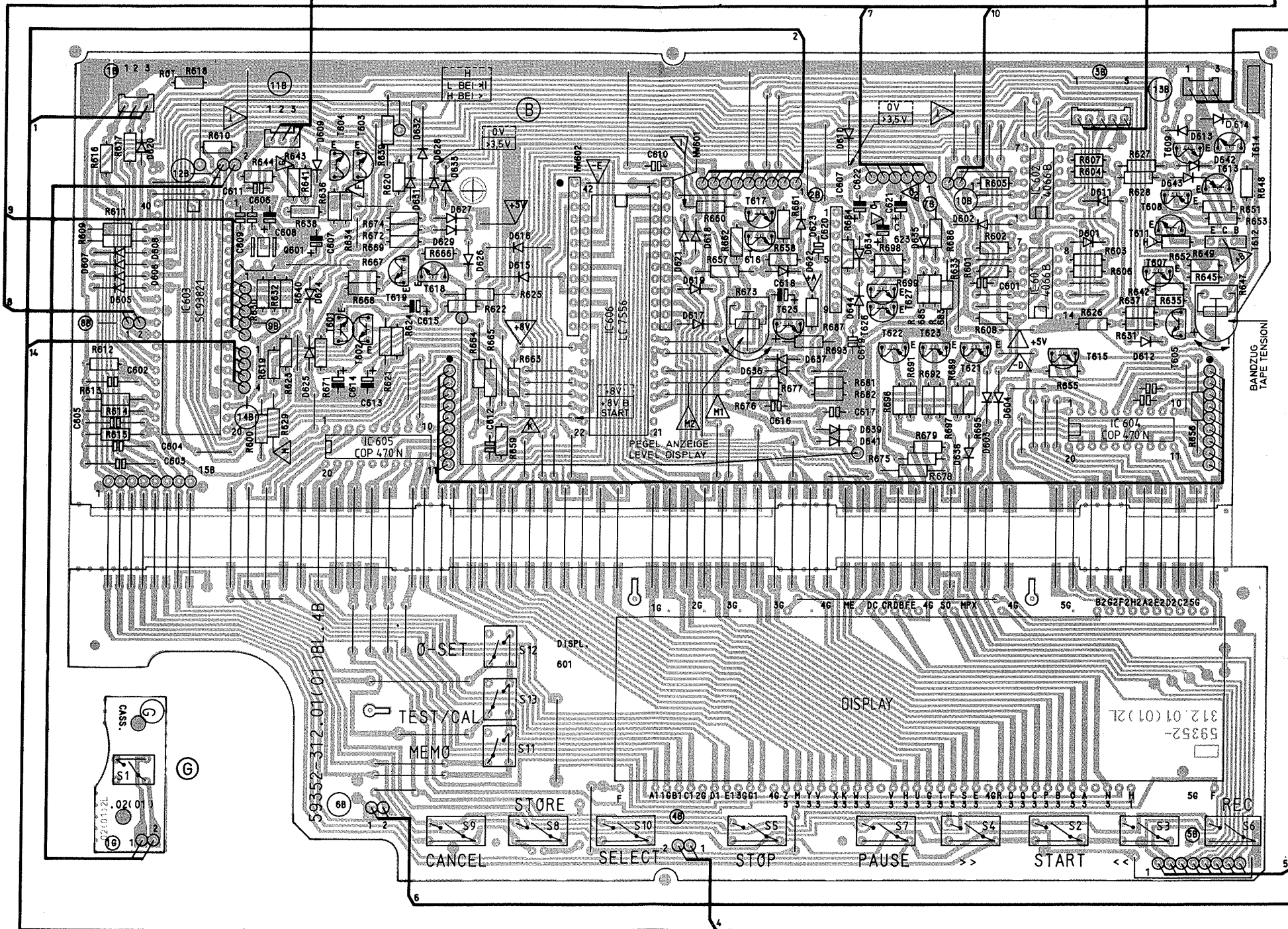
TONWELLEN -
MOTOR - BAUST.
CAPSTAN -
MOTOR UNIT (N)



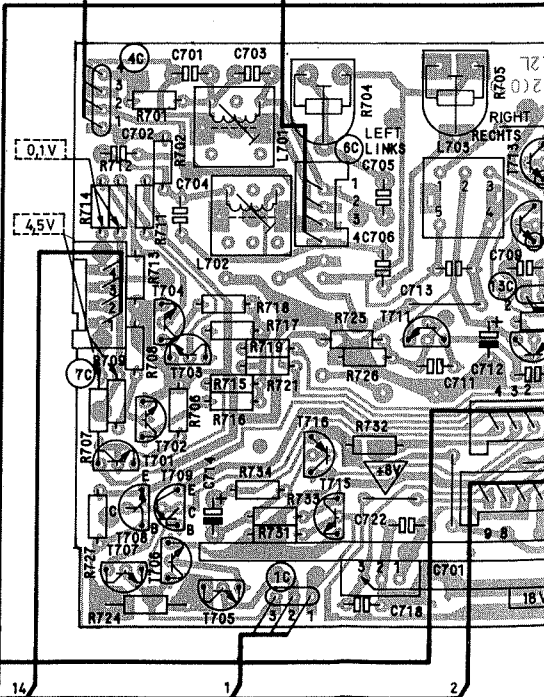
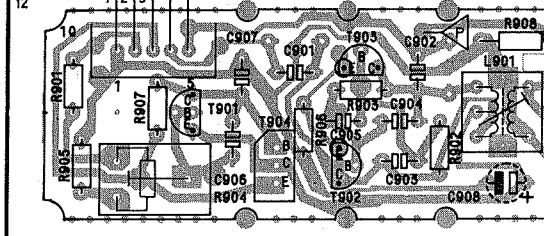
SERVOMOTOR

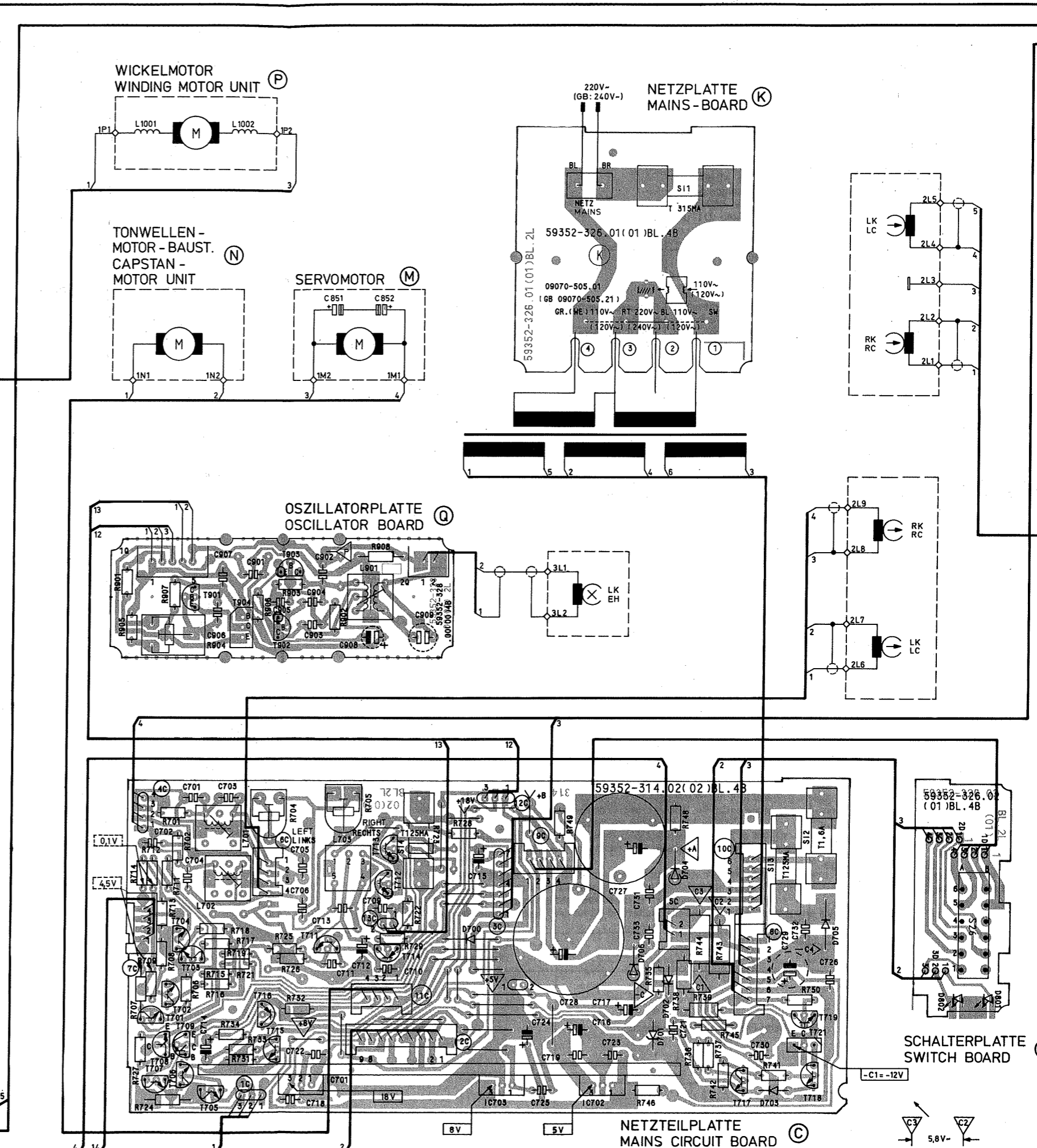
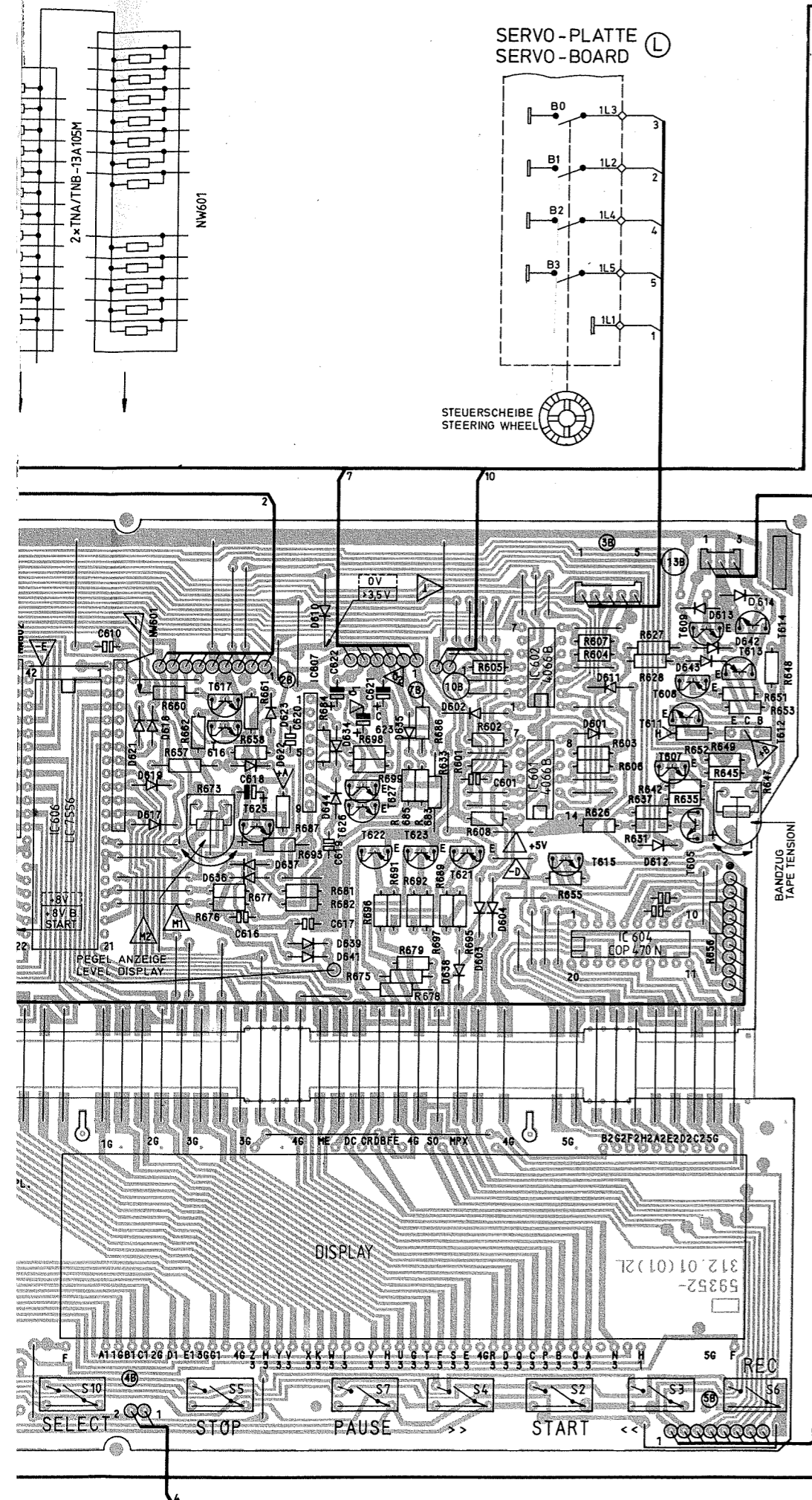


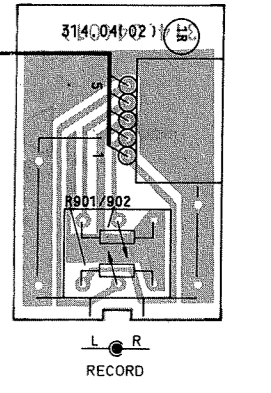
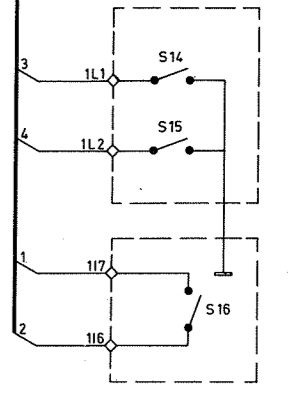
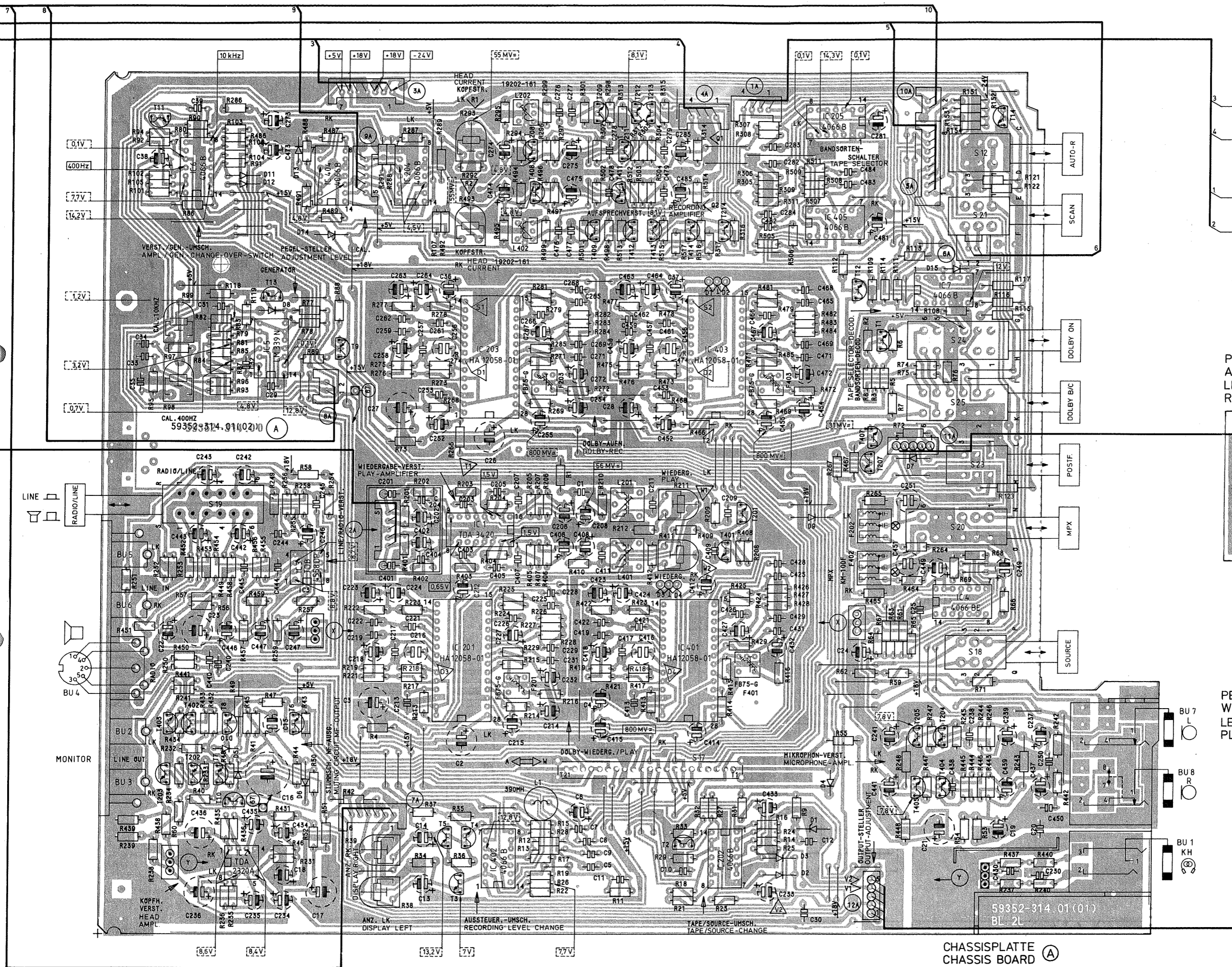
ELEKTRONIK PLATTE
ELECTRONIC BOARD (B)



OSZILLATORPLA
OSCILLATOR BO

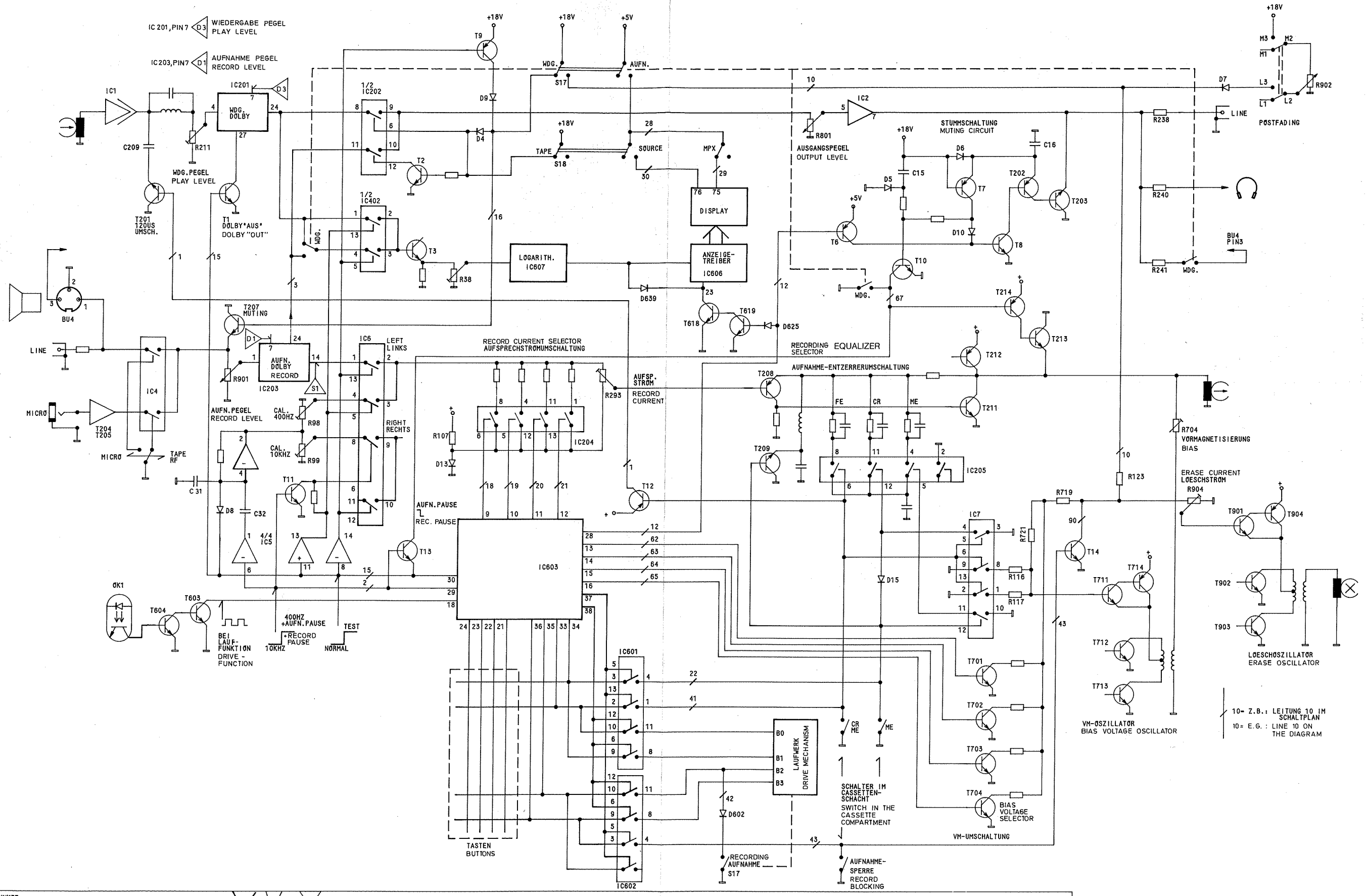




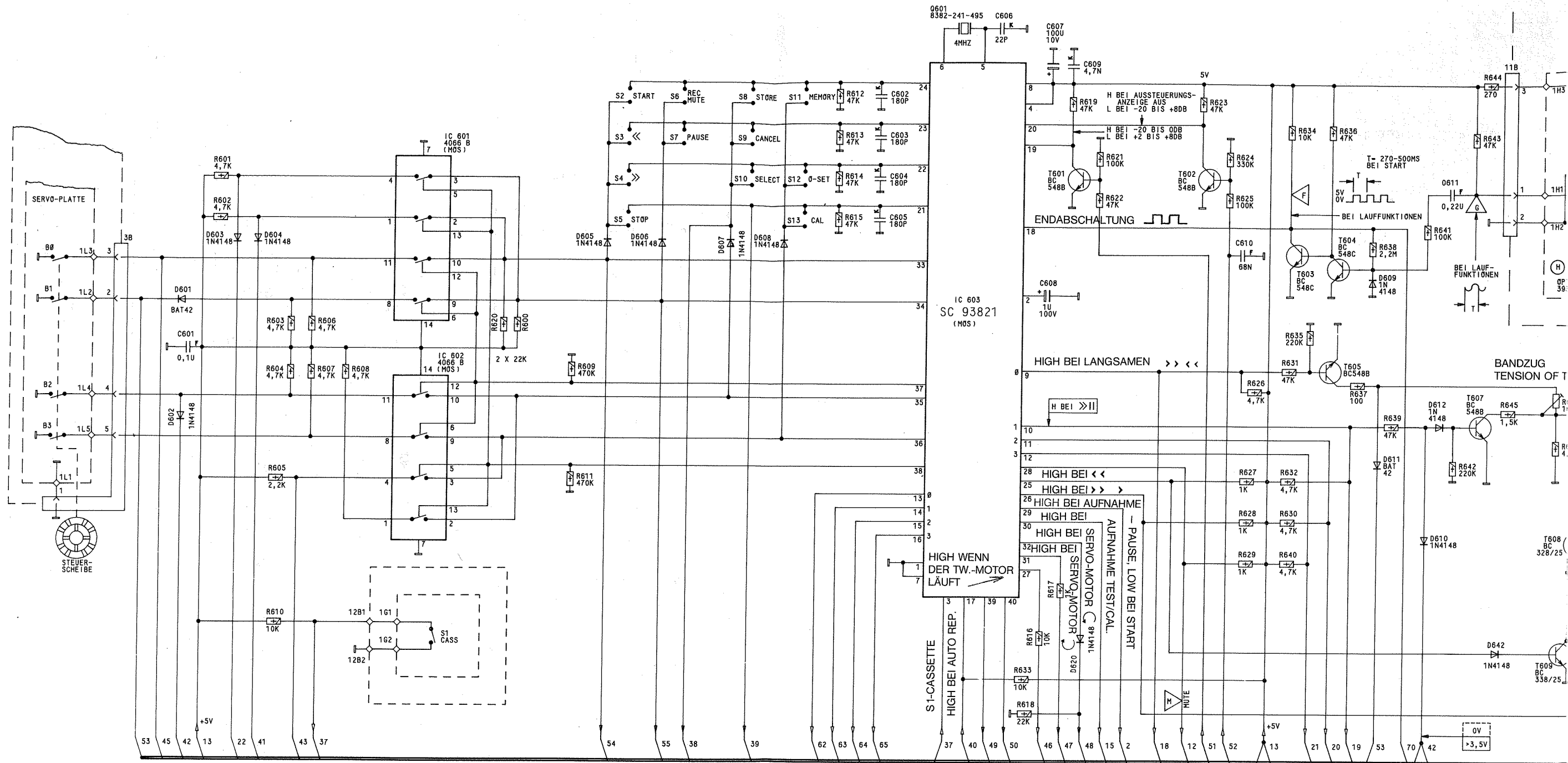


CHASSISPLATTE CHASSIS BOARD (A)

BLOCKSCHALTUNG CF 7500, NUR LINKER KANAL GEZEICHNET
 BLOCK CIRCUIT DIAGRAM CF 7500, LEFT CHANNEL ONLY SIGNED



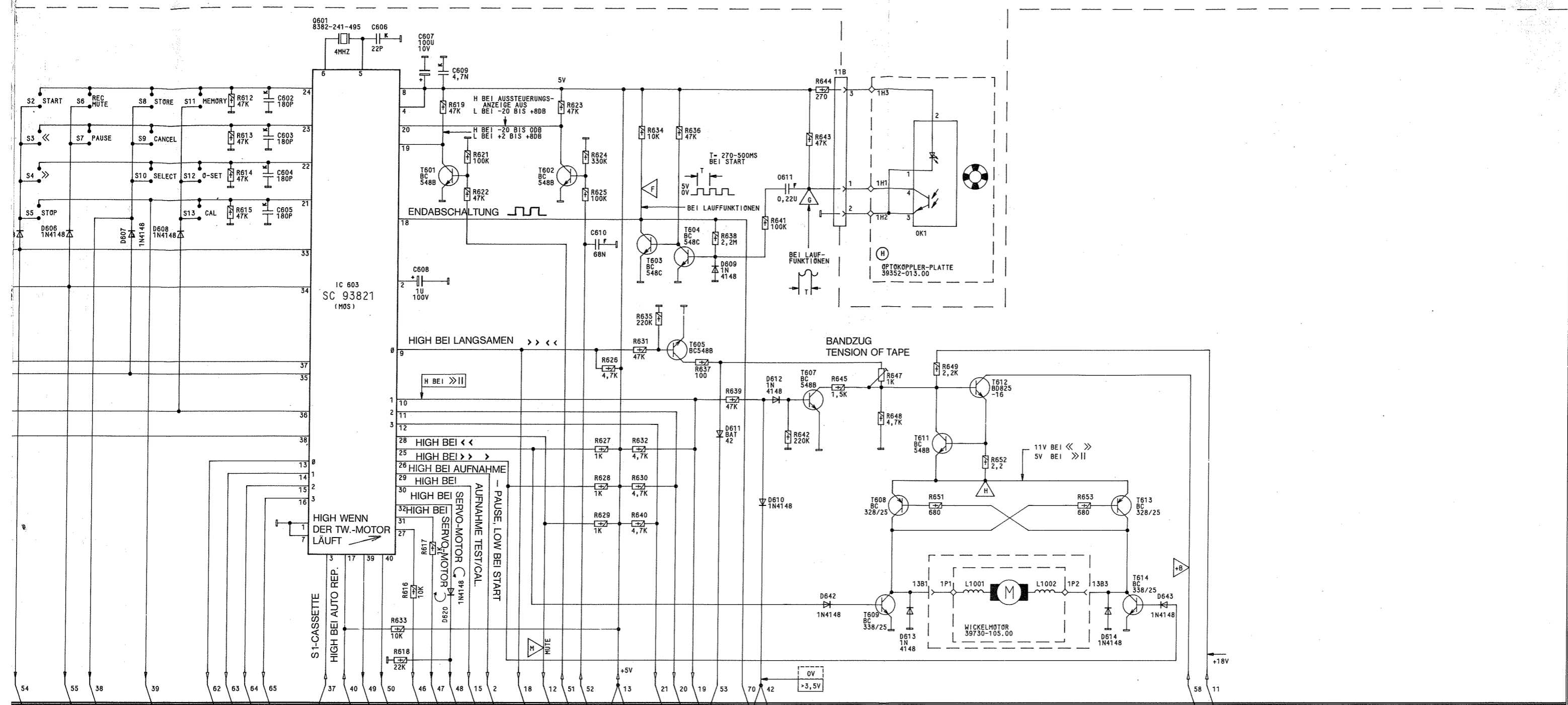
MESSPUNKTE
MEASURING POINTS
 ABGLEICHPUNKTE
ALIGNMENT POINTS
 D3 D1 S1



ⓑ
ELECTRONICPLATTE
59352-075.00

MESSPUNKTE
MEASURING POINTS
ABGLEICHPUNKTE
ALIGNMENT

▽ M ▽ F ▽ G

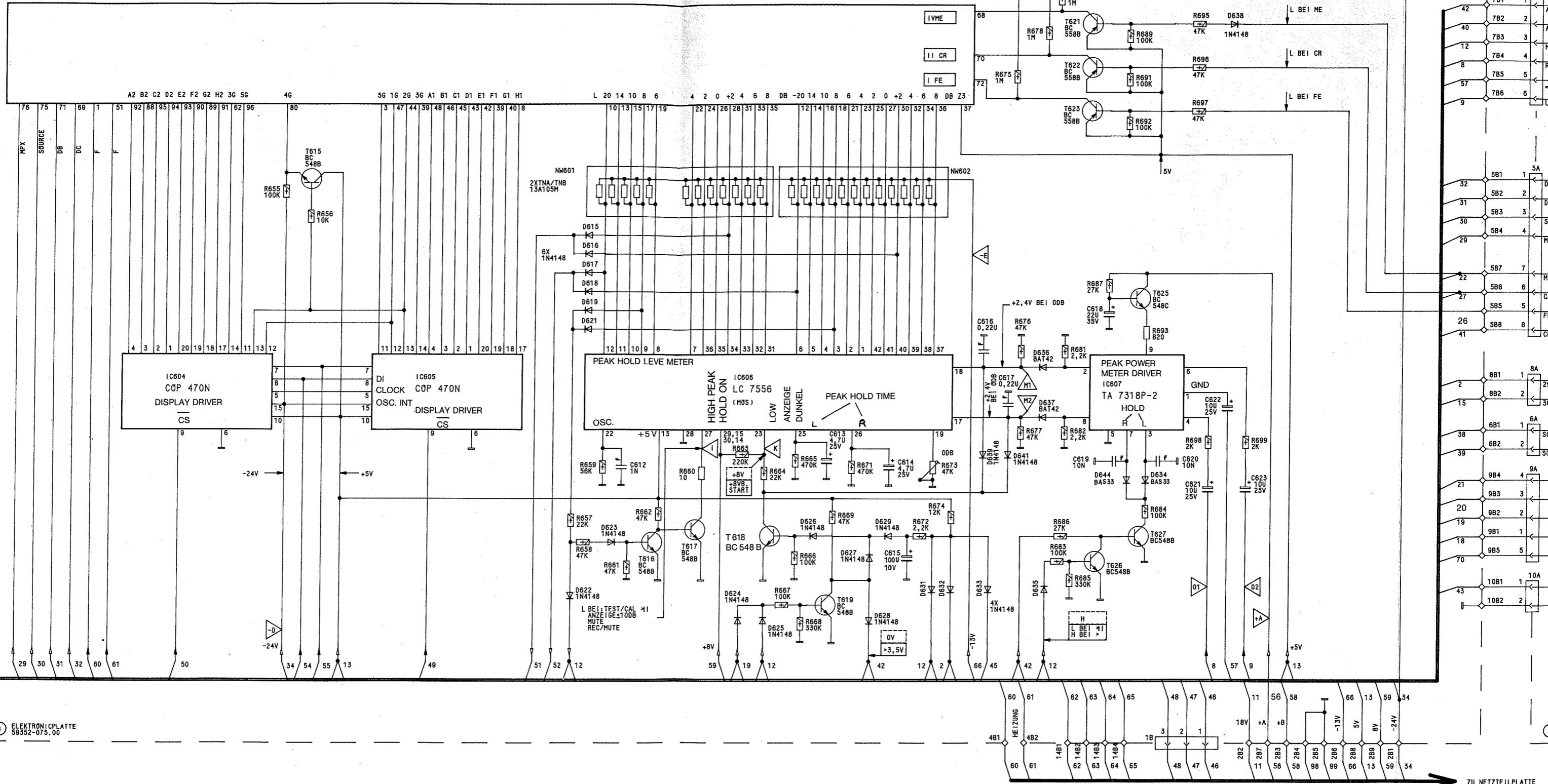


LOGIKSTEUERUNG
WICKELMOTOR
LOGIC CONTROL

GRUNDIG
CF 7500

72008-295.43

Blatt 1



Elektronikplatte
59352-075.00

GRUNDIG

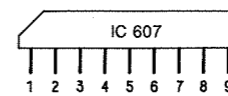
CF 7500

72008-295.43

Blatt 2

**ANZEIGE-DISPLAY
WIEDERGABEKÖPFE**

DISPLAY
PLAYBACK HEADS



TA7318P-2

MESSPUNKTE
MEASURING POINTS
ABGLEICHPUNKTE
ALIGNMENT

▽ -D

▽ I

▽ K

▽ -E M1

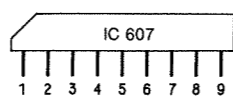
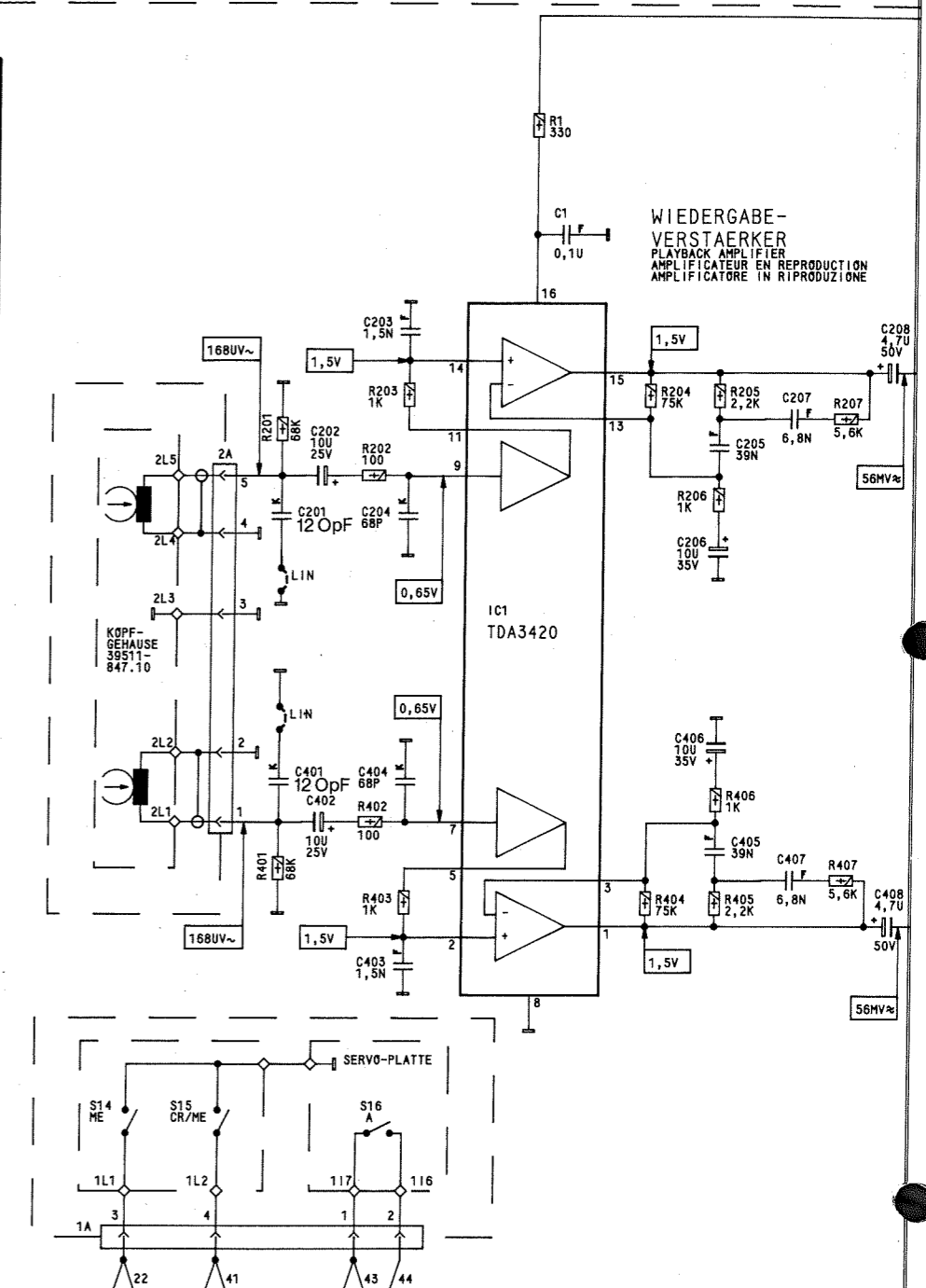
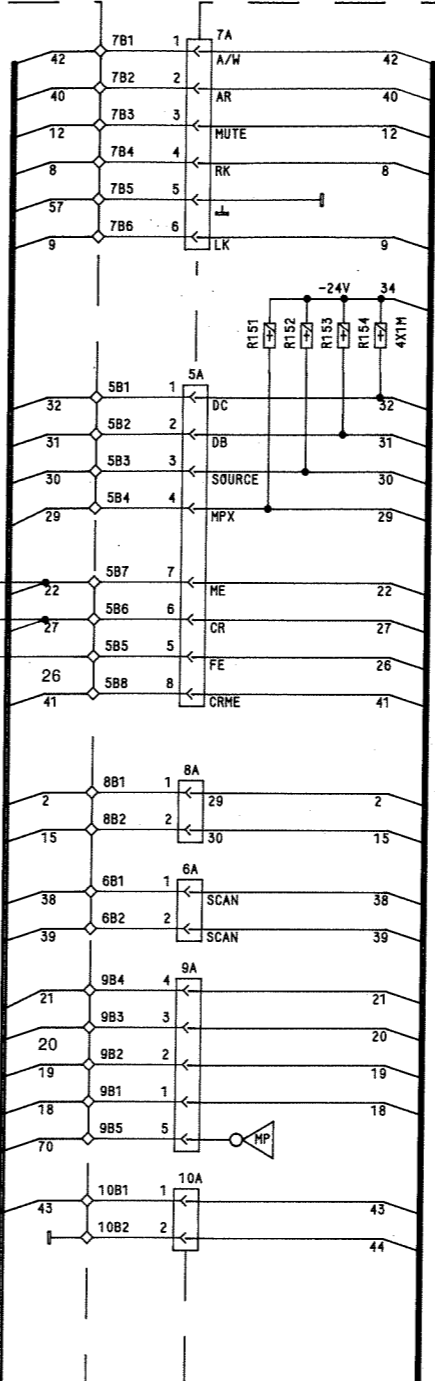
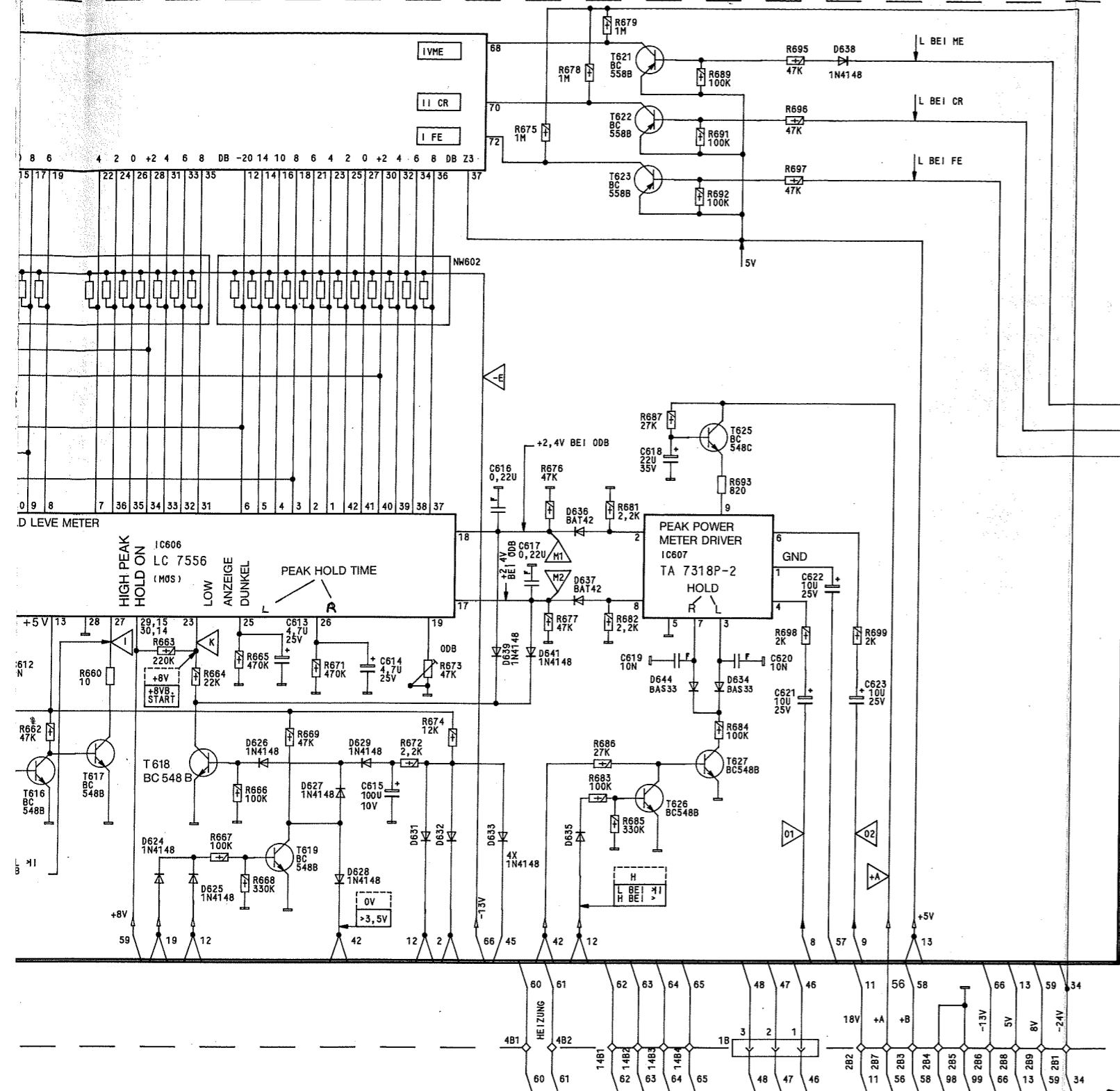
▽ M2

▽ 01

▽ 02

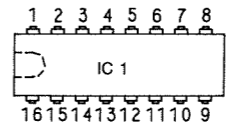
▽ +A

ZU NETZTEILPLATTE



TA7318P-2

TDA3420



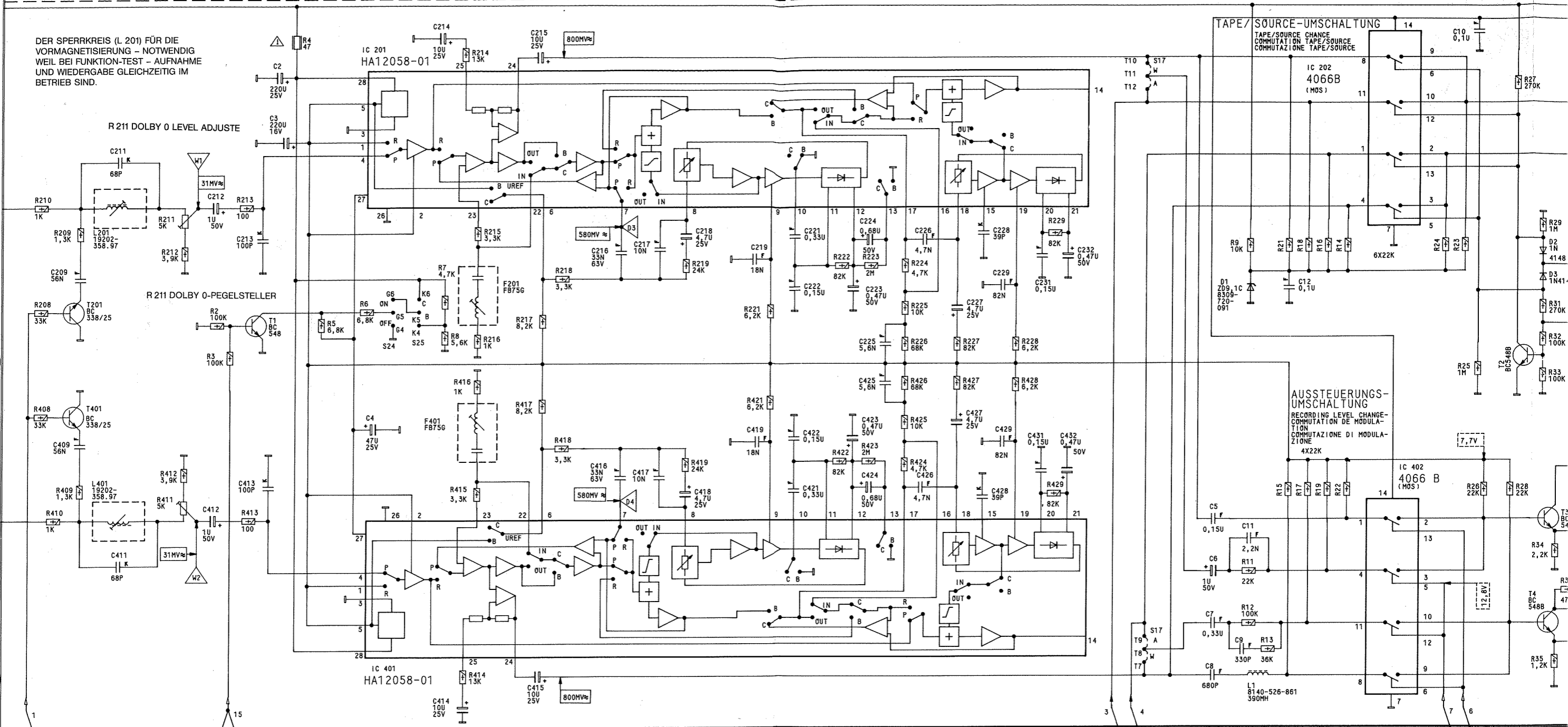
CHASSISPLATTE 59352-077.00

ZU NETZTEILPLATTE

DER SPERRKREIS (L 201) FÜR DIE VORMAGNETISIERUNG - NOTWENDIG WEIL BEI FUNKTION-TEST - AUFNAHME UND WIEDERGABE GLEICHZEITIG IM BETRIEB SIND.

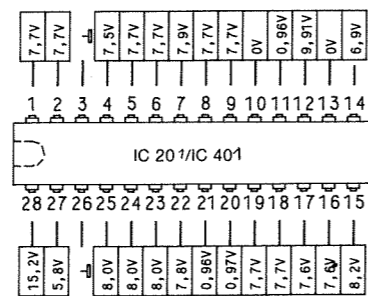
R 211 DOLBY 0 LEVEL ADJUSTE

R 211 DOLBY 0-PEGELSTELLER



CHASSISPLATTE 59352-077.00

BIASING REQUIRES BLOCKING CIRCUIT L 201 BECAUSE IN THE TEST FUNCTION BOTH RECORD AND PLAYBACK ARE ENGAGED SIMULTANEOUSLY.



HA 12058.01

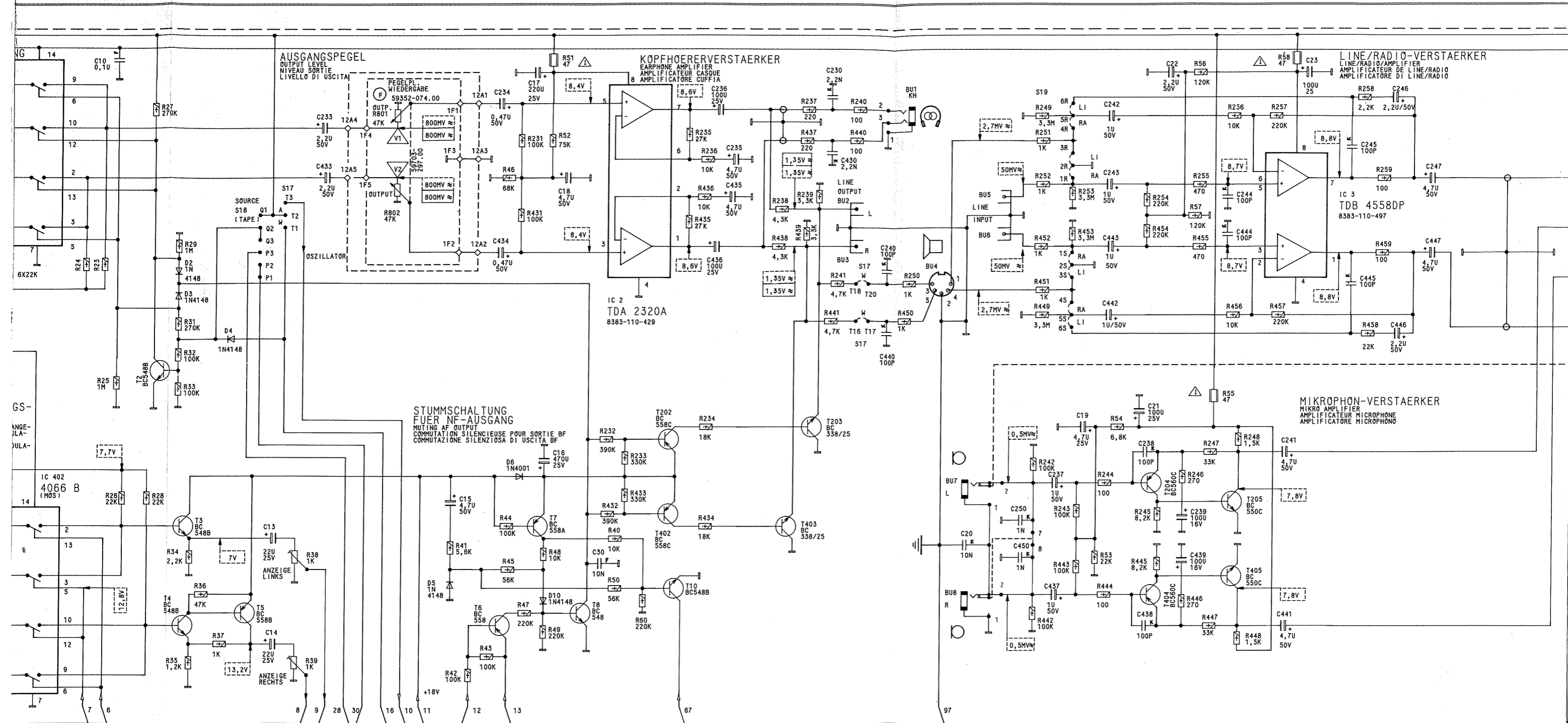
DIE NF-SPANNUNGSANGABEN IM SCHALTBIKD BEZIEHEN SICH AUF F = 315 Hz UND EINE SPANNUNG VON 580 mV AN D 1 UND D 2 BEI WIEDERGABE! HIER LIEGT AUCH DIE SCHWELLE ZWISCHEN DER AUSSTEUERUNGSANZEIGE 0 dB UND +2 dB I AN MASSE LEGEN, DAMIT KEIN PEEK-HOLD (TRÄGHEITSLÖSE PEGELANZEIGE).

THE AF VOLTAGES STATED IN THE CIRCUIT DIAGRAM ARE BASED ON F = 315 Hz AND A VOLTAGE OF 580 mV AT D 3 AND D 4 DURING RECORDING AND 580 mV AT D 1 AND D 2 DURING PLAYBACK. THIS IS ALSO THE SWITCHING THRESHOLD BETWEEN THE 0 dB AND +2 dB OUTPUT DISPLAY. CONNECT 1 TO CHASSIS, TO AVOID PEAK HOLD (INSTANTANEOUS LEVEL DISPLAY)

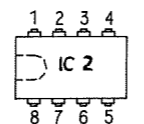
MESSPUNKTE MEASURING POINTS
ABGLEICHPUNKTE ALIGNMENT POINTS

W1 W2

D3 D4



VALUES ARE BASED ON F = 315 Hz
RECORDING AND 580 mV AT D 1
THE 0 dB AND +2 dB OUTPUT
INSTANTANEOUS LEVEL DIS-



TDA 2320A/8383-110-429
TDB 4558DP/8383-110-419

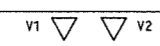
WIEDERGABE DOLBY NR
KOPFHÖRERVERSTÄRKER
EIN- UND AUSGÄNGE

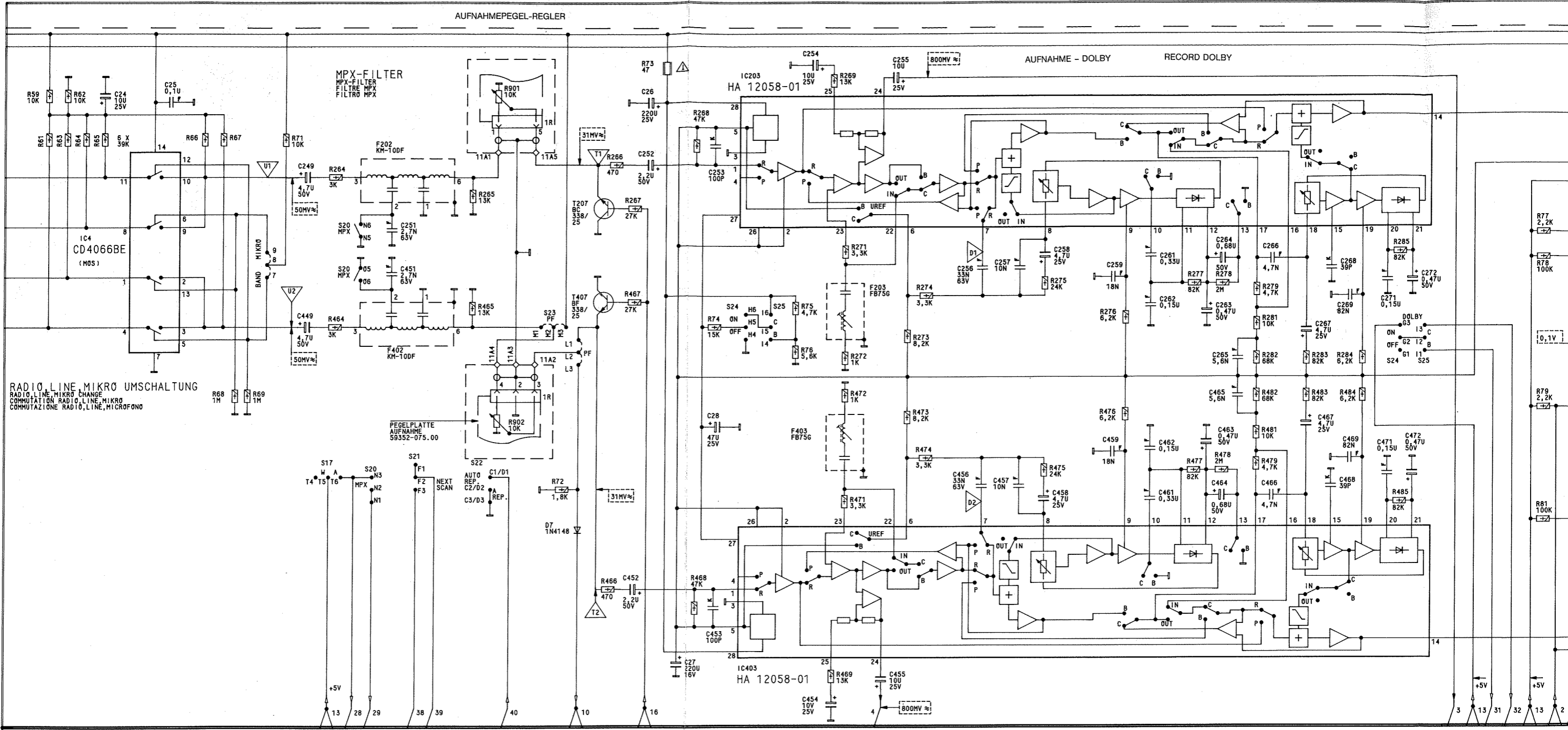
PLAYBACK DOLBY NO.
HEADPHONE AMPLIFIER
INPUTS AND OUTPUTS

GRUNDIG
CF 750

72008-295.43

Blatt 3





Ⓐ CHASSISPLATTE
59352-077.00

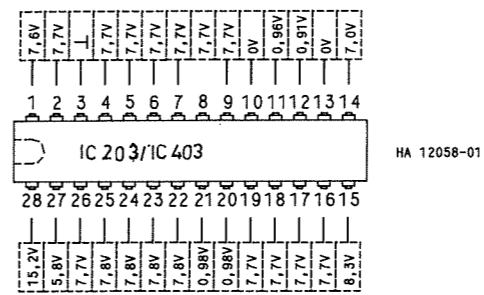
GRUNDIG
CF 750

72008-295.43

Blatt 4

AUFNAHME DOLBY NR
TESTGENERATOR

RECORD DOLBY NO.
TEST GENERATOR



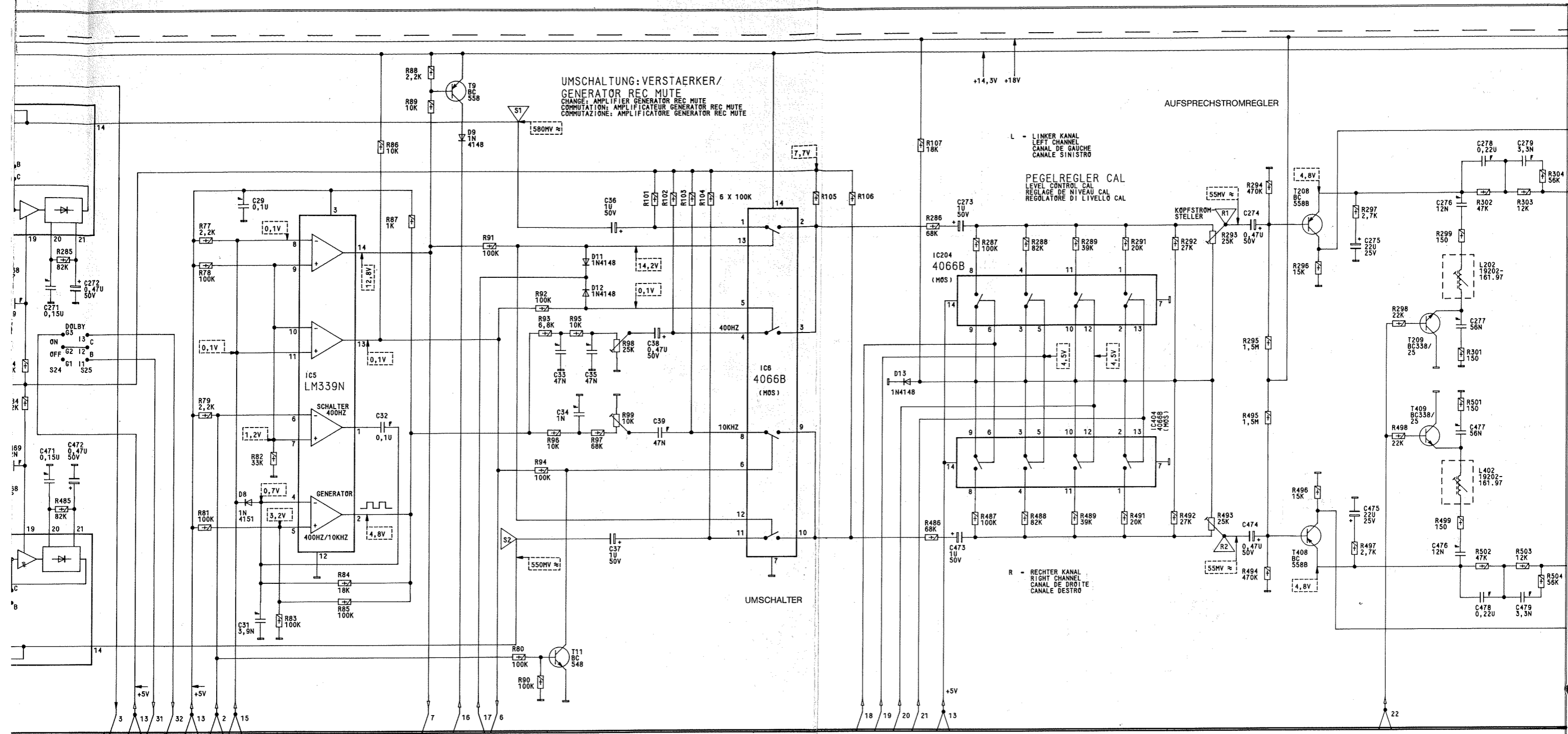
MESSPUNKTE
MEASURING POINTS

U1 U2

ABGLEICHPUNKTE
ALIGNMENT POINTS

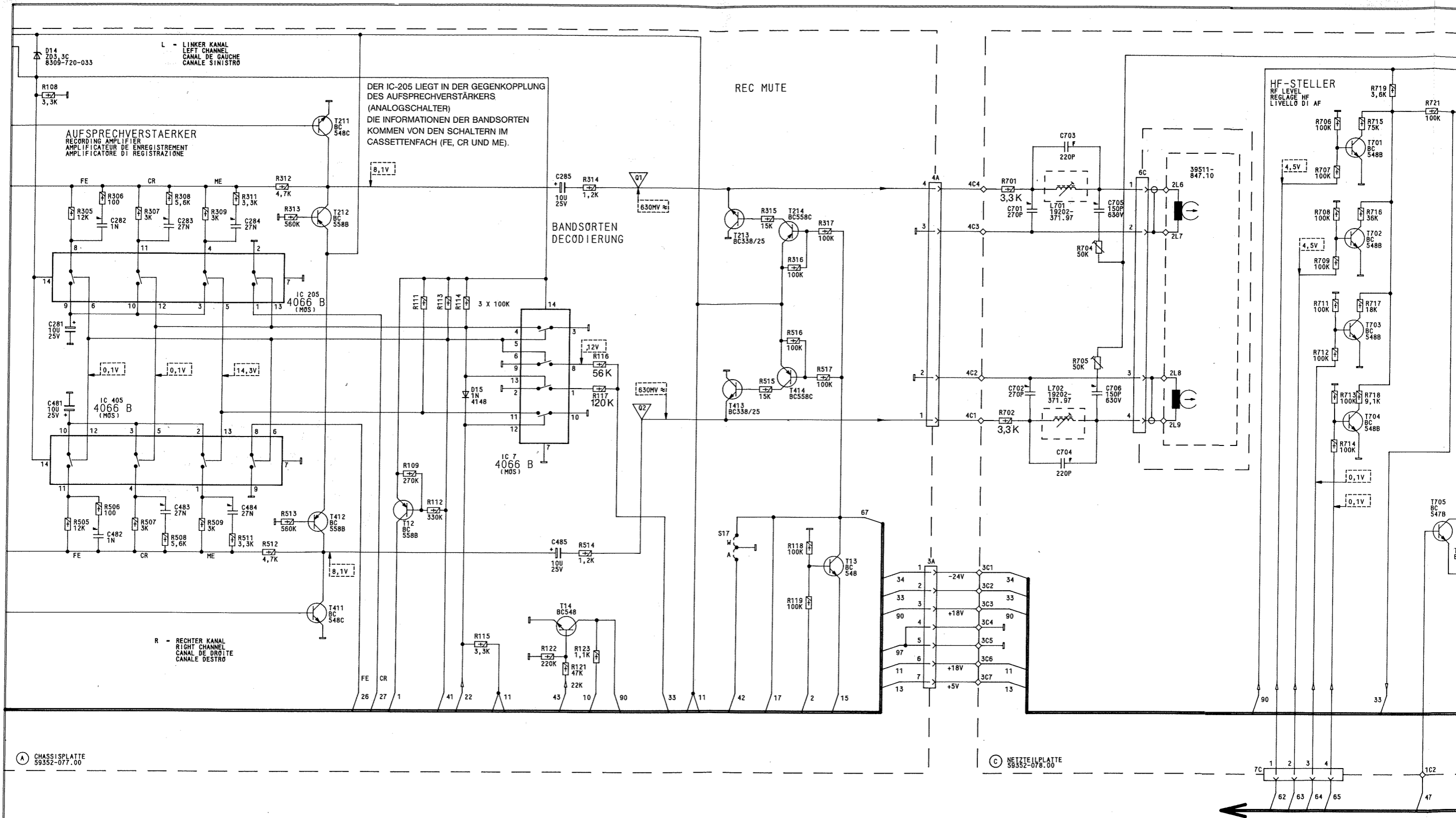
T1 T2

D1 D2

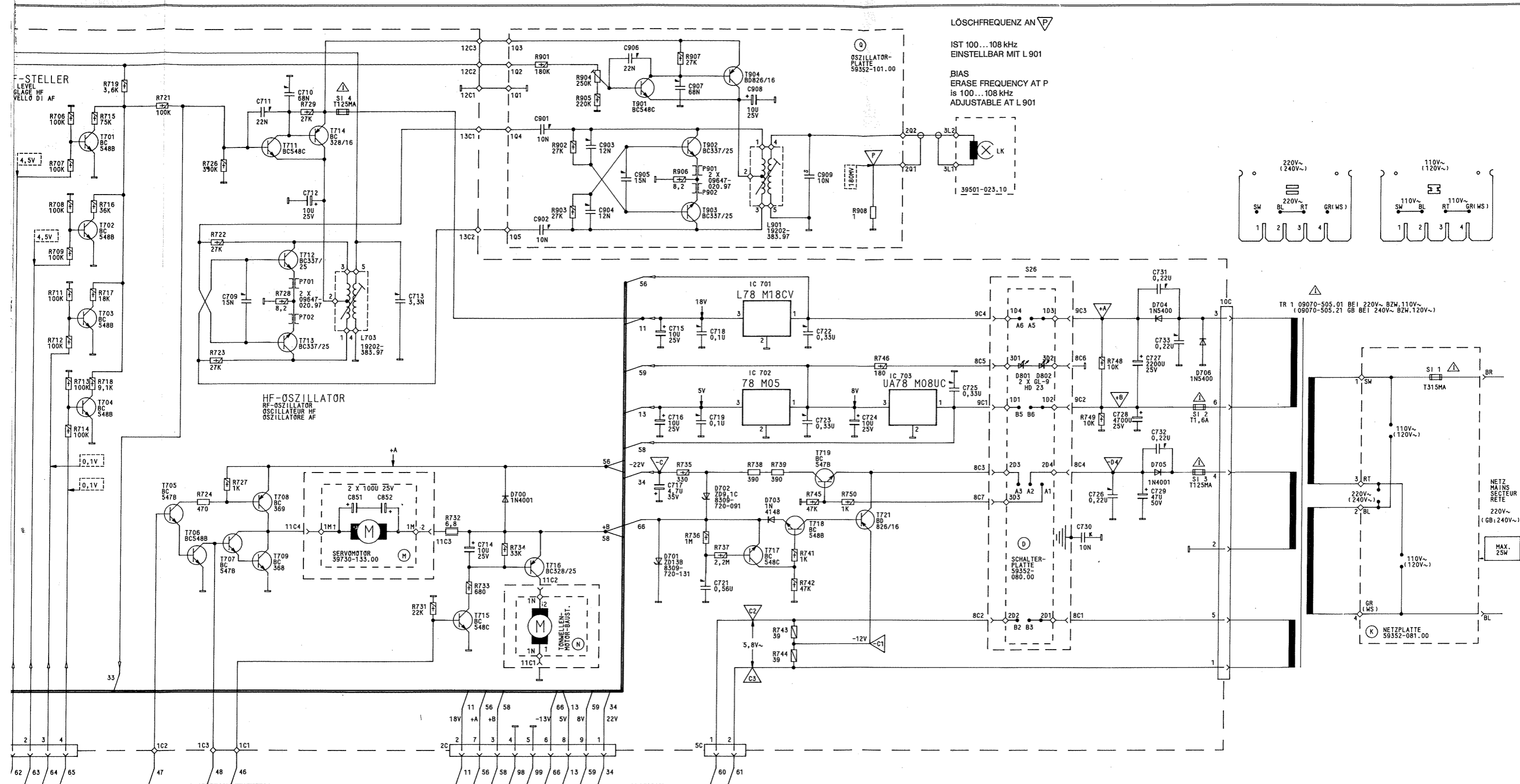


S1 ▽ ▽ S2

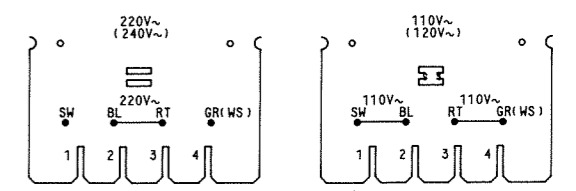
R1 ▽ ▽ R2



IC 205 IS PART OF THE NEGATIVE FEEDBACK OF THE RECORD CURRENT AMPLIFIER (ANALOG SWITCH)
THE SWITCHES IN THE CASSETTE COMPARTMENT IDENTIFY THE TYPE OF TAPE LOADED (CR, FE, ME)



LÖSCHFREQUENZ AN ∇
 IST 100...108 kHz
 EINSTELLBAR MIT L 901
 BIAS
 ERASE FREQUENCY AT P
 is 100...108 kHz
 ADJUSTABLE AT L 901



TR 1 09070-505.01 BEI 220V~ 82W, 110V~
 (09070-505.21 GB BEI 240V~ 82W, 120V~)

NETZ
 MAINS
 SECTEUR
 RETE
 220V~
 (GB: 240V~)

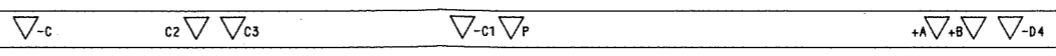
GRUNDIG
CF 7500

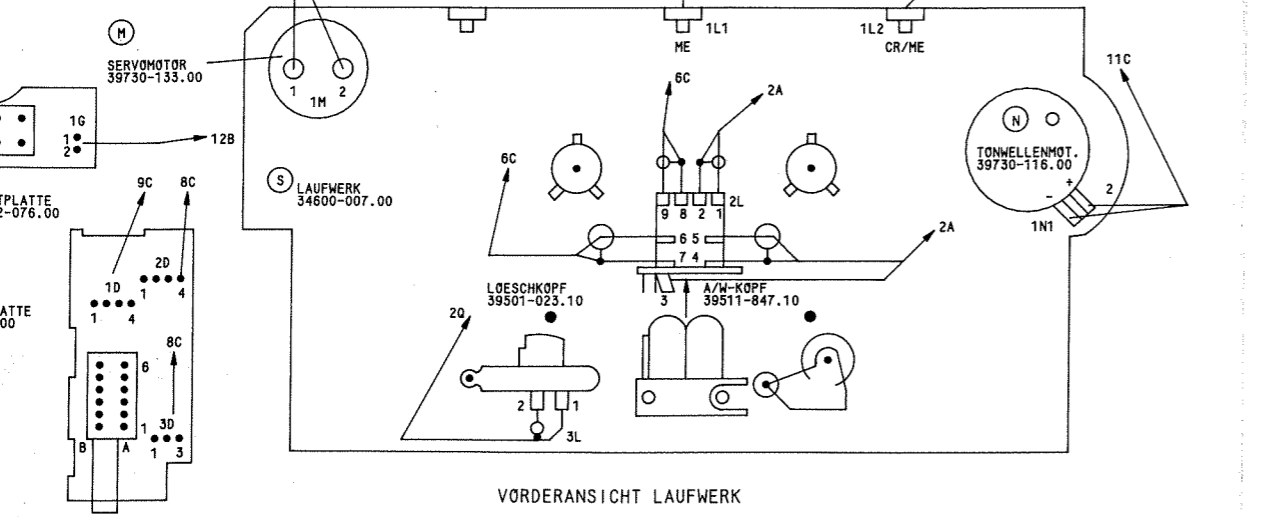
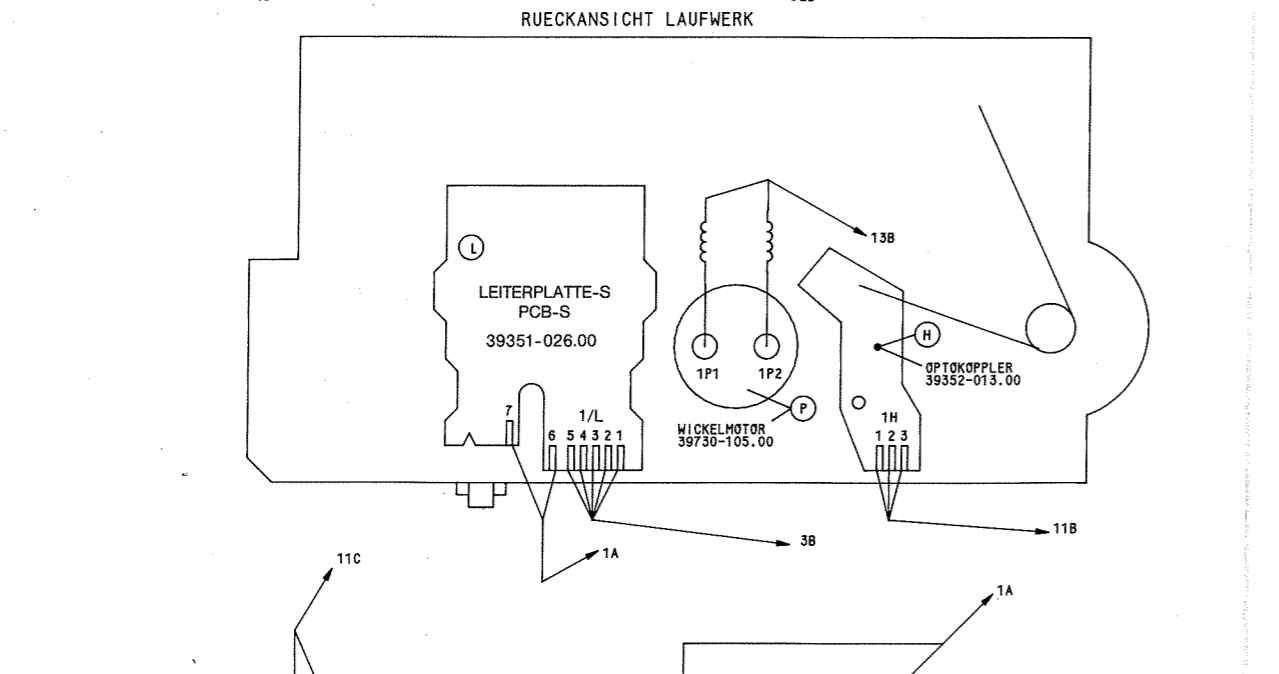
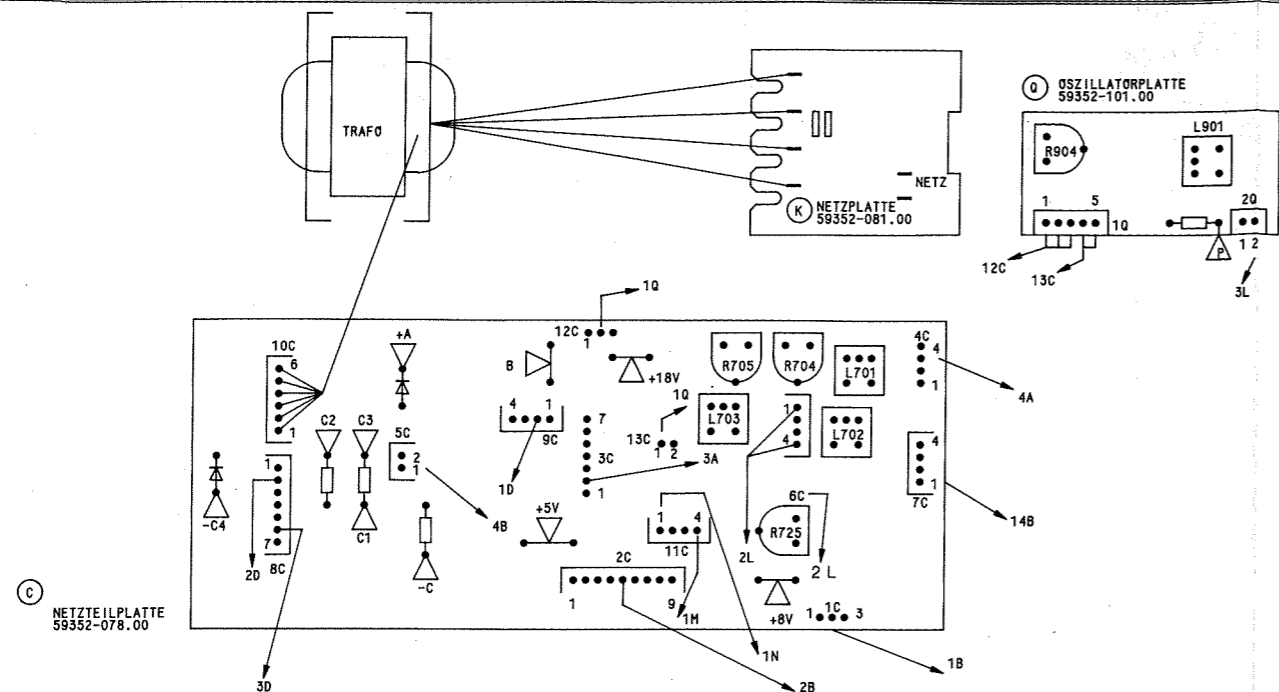
72008-295.43

Blatt 5

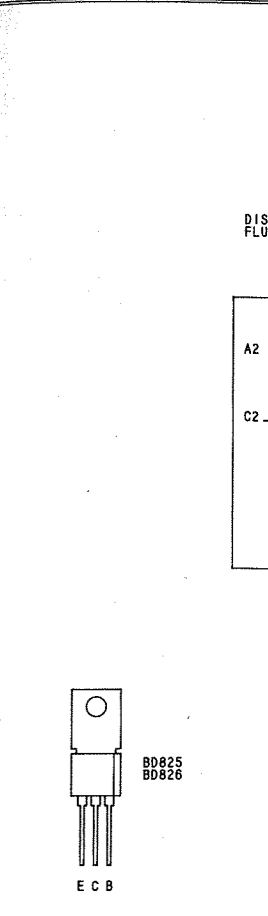
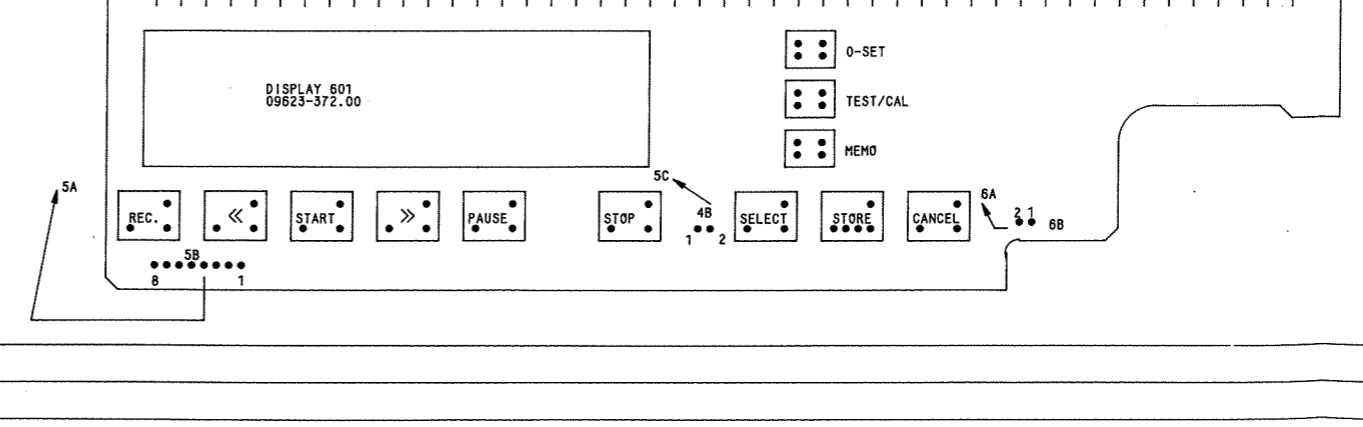
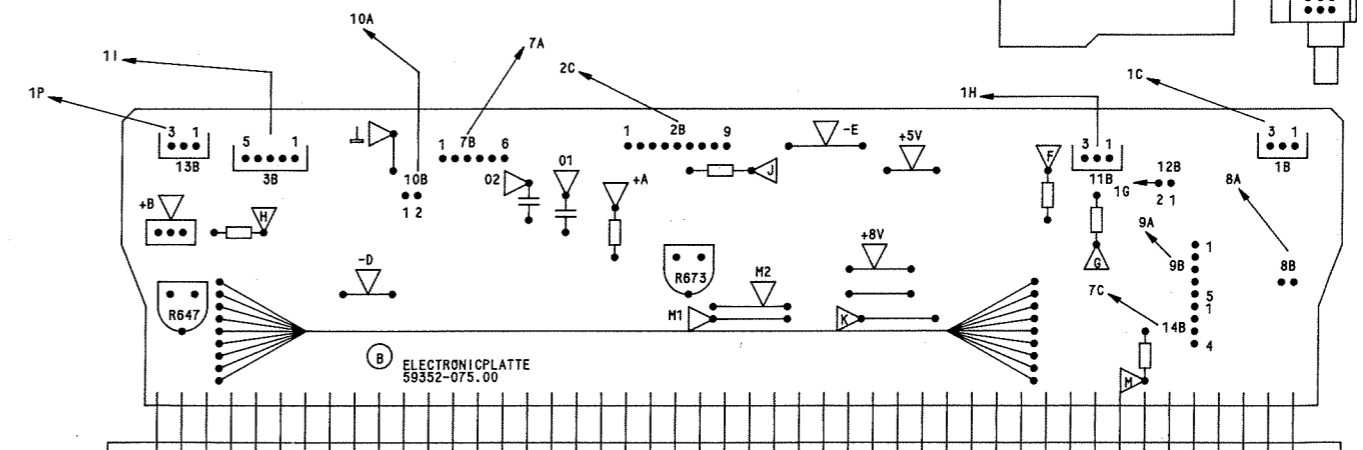
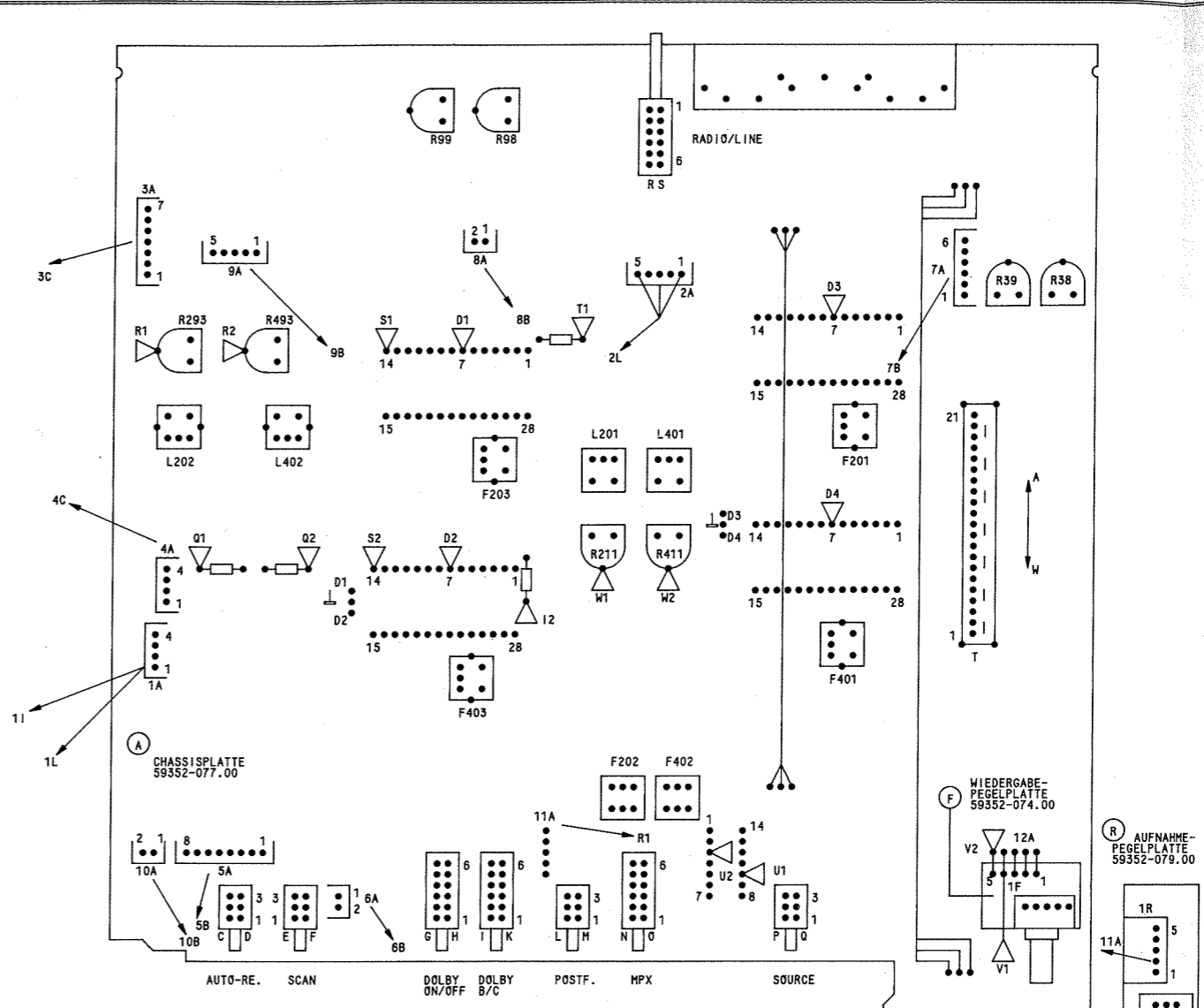
AUFNAHMEKÖPFE
 HF-OSZILLATOR
 NETZTEIL
 SERVO- UND TONWELLEN-MOTOR

RECORDING HEADS
 HF OSCILLATOR
 MAINS UNIT
 SERVO AND CAPSTAN MOTOR



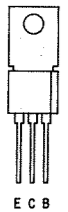
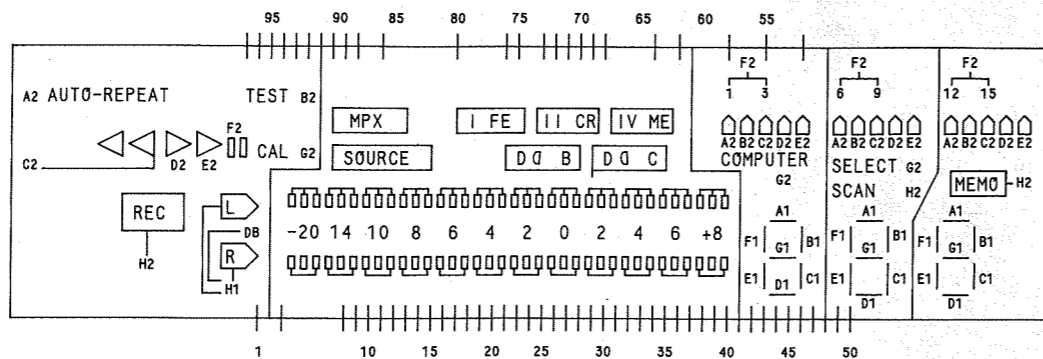


MESSPUNKTE
MEASURING POINTS
ABGLEICHPUNKTE
ALIGNMENT POINTS



DISP
FL00
A2 A
C2
BD825
BD826
E C B

DISPLAY 601
FLUORESCENZ-ANZEIGEROEHRE 09623-372.00



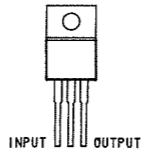
BD825
BD826



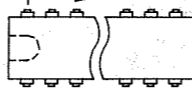
BC328
BC337
BC338
BC347
BC348
BC350
BC358
BC360



BC368
BC369

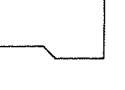
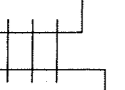
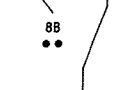
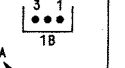
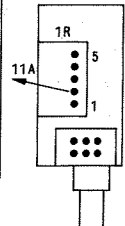


78M18/MC78M18CT
78M08/MC78M08CT
78M05



4066B
C04066BE
CM339
LC7356
SC93821
COP470N

AUFNAHME-
PEGELPLATTE
59352-079.00



A - AUFNAHME
RECORD
ENREGISTREMENT
REGISTRAZIONE

W - WIEDERGABE
PLAYBACK
REPRODUCTION
RIPRODUZIONE

BU1 KOPFHÖRER/EARPHONE/ECOUTEUR/CUFFIA
BU2 LINE OUTPUT LINKS/LEFT/GAUCHE/SINISTRO
BU3 LINE OUTPUT RECHTS/RIGHT/DROITE/DESTRO
BU4 RADIO
BU5 LINE INPUT LINKS/LEFT/GAUCHE/SINISTRO
BU6 LINE INPUT RECHTS/RIGHT/DROITE/DESTRO
BU7 MICRO LINKS/LEFT/GAUCHE/SINISTRO
BU8 MICRO RECHTS/RIGHT/DROITE/DESTRO

R211 } DOLBY-NR BEZUGSPEGEL
DOLBY-NR REFERENCE LEVEL
R411 } REGLAGE DE NIVEAU DE REFERENCE DOLBY-NR
REGOLATORE DEL LIVELLO DI RIFERIMENTO DOLBY-NR

R38 } ANZEIGE RECHTS
INDICATION RIGHT
AFFICHAGE DE DROITE
INDICAZIONE DI DESTRA

R39 } ANZEIGE LINKS
INDICATION LEFT
AFFICHAGE DE GAUCHE
INDICAZIONE DI SINISTRO

R673-00B

FE IEC I } BANDSORTEN
CR IEC II } TAPE TYPES
ME IEC IV } TYPES DES BANDES
TIPO DI NASTRO

R647 } BANDZUG
TAPE TENSION
TENSION DE BANDE
TENSIONE DEL NASTRO

R704 } VORMAGNETISIERUNG
BIAS VOLTAGE
PREMAGNETISATION
PREMAGNETIZZAZIONE

R293 } BANDEMPFINDLICHKEIT
TAPE SENSITIVITY
SENSIBILITE DE BANDE
SENSIBILITA DEL NASTRO

R98 } PEGELREGLER 400HZ
LEVEL CONTROL
REGLAGE DE NIVEAU
REGOLATORE DI LIVELLO

R99 } PEGELREGLER 10KHZ
LEVEL CONTROL
REGLAGE DE NIVEAU
REGOLATORE DI LIVELLO

R725 } LOESCHSTROM
ERASE CURRENT
COURANT D'EFFACEMENT
CORRENTE DI CANCELLAZIONE

R901 } AUFNAHMEPEGEL
RECORDING LEVEL
NIVEAU DE ENREGISTREMENT
R902 } LIVELLO DI REGISTRAZIONE

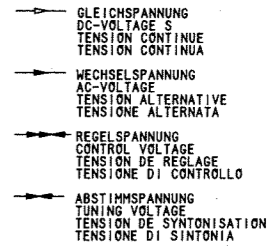
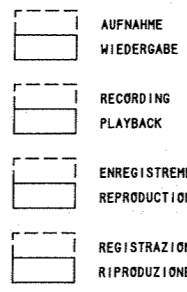
R801 } AUSGANGSPEGEL
OUTPUT LEVEL
NIVEAU SORTIE
R802 } LIVELLO DI USCITA

GLEICHSPANNUNGEN GEMESSEN BEI NENNSPANNUNG OHNE SIGNAL GEGEN MASSE. EINGANGSWIDERSTAND DES VOLTMETERS R: >= 1 MEGOHM

DC-VOLTAGES MEASURED AGAINST MINUS AT NOMINAL VOLTAGE AND NO SIGNAL. INPUT RESISTANCE OF VOLTMETER R: >= 1 MEGOHM.

TENSIONS CONTINUES MEASUREES PAR RAPPORT A NEGATIF A UNE TENSION NOMINALE ET SANS SIGNAL. LA RESISTANCE D'ENTREE DU VOLTMETRE DOIT ETRE R: >= 1 MEGOHM.

TENSIONI CONTINUE MISURATE A TENSIONE NOMINALE, VERSO MASSA E SENZA SEGNALE. RESISTENZA D'INGRESSO DEL VOLTMETRO R: >= 1 MEGOHM.



ÄNDERUNGEN VORBEHALTEN
SUBJECT TO ALTERATION
MODIFICATIONS RESERVEES
CON RISERVA DI MODIFICA

- S1 EJECT
- S2 START
- S3 RUECKLAUF/REWIND/AVANCE RAPIDE/RIAVVOLGIMENTO
- S4 VORLAUF/FORWARD WIND/RETOUR RAPID/AVVOLGIMENTO
- S5 STOP
- S6 REC MUTE
- S7 PAUSE
- S8 STORE
- S9 CANCEL
- S10 SELECT
- S11 MEMORY
- S12 0-SET
- S13 TEST/CAL
- S14 ME
- S15 CR/ME
- S16 AUFNAHMESPERRE/RECORDING LOCK/BLOQUAGE ENREGISTREMENT/BLOCCO DI REGISTRAZIONE
- S17 A/W-SCHALTER/A/W SWITCH/A/W COMMUTEUR/A/W COMMUTATORE (7X)
- S18 SOURCE
- S19 RADIO/LINE
- S20 MPX (FILTER) ON/OFF
- S21 NEXT/SCAN
- S22 AUTO REF
- S23 POST-FADING
- S24 DOLBY ON/OFF
- S25 DOLBY B/C
- S26 POWER

IM CASSETTESCHACHT
IN CASSETTE COMPARTMENT
DANS LE LOGEMENT CASSETTE
NEL VANO CASSETTA

- SW-SCHWARZ BLACK NOIR NERO
- BR-BRAUN BROWN BRUN MARRONE
- RT-ROT RED ROUGE ROSSO
- GE-GELB YELLOW JAUNE GIALLO
- GN-GRUEN GREEN VERT VERDE
- BL-BLAU BLUE BLEU BLU
- VI-VIOLETT VIOLET VIOLETT VIOLETT
- GR-GRAU GREY GRIS GRIGIO
- WS-WEISS WHITE BLANC BIANCO
- RS-ROSA PINK ROSE ROSA
- OR-ORANGE ORANGE ARANCIONE
- TR-TRANSPARENT TRANSPARENT TRASPARENTE

- FUER DIE GERAETESICHERHEIT ABSOLUT NOTWENDIG UND ENTSPRECHEND DEN RICHTLINIEN DES VDE BZW IEC. IM ERSATZFALL DUERFEN NUR BAUTEILE MIT GLEICHER SPEZIFIKATION VERWENDET WERDEN.
- ABSOLUTELY NECESSARY FOR THE SAFETY OF THE SET. THESE COMPONENTS MEET THE SAFETY REQUIREMENTS ACCORDING TO VDE OR IEC. RESP. AND MUST BE REPLACED BY PARTS OF SAME SPECIFICATION ONLY.
- ABSOLUMENT NECESSAIRE POUR LA SECURITE DE L'APPAREIL ET CONFORME AUX REGULATIONS VDE ET IEC. EN CAS DE REMPLACEMENT, N'UTILISER QUE DES COMPOSANTS AVEC LES MEMES SPECIFICATIONS.
- NECESSARI PER LA SICUREZZA DELL' APPARECCHIO E SONO CONFORMI ALLE NORME DI SICUREZZA VDE E IEC. IN CASA DI SOSTITUZIONE IMPIEGARE QUINDI SOLTANTO PEZZI DI RICAMBIO ORIGINALI.

WIDERSTAND/RESISTOR
RESISTANCE/RESISTENZA

- KSW 0204 DIN
- MSW 0204 DIN
- KSW 0207 DIN
- MSW 0207 DIN
- KSW 0309 DIN
- KSW 0411 DIN
- KSW 0617 DIN
- MSW 0309 DIN

- SW-SCHWARZ BLACK NOIR NERO
- BR-BRAUN BROWN BRUN MARRONE
- RT-ROT RED ROUGE ROSSO
- GE-GELB YELLOW JAUNE GIALLO
- GN-GRUEN GREEN VERT VERDE
- BL-BLAU BLUE BLEU BLU
- VI-VIOLETT VIOLET VIOLETT VIOLETT
- GR-GRAU GREY GRIS GRIGIO
- WS-WEISS WHITE BLANC BIANCO
- RS-ROSA PINK ROSE ROSA
- OR-ORANGE ORANGE ARANCIONE
- TR-TRANSPARENT TRANSPARENT TRASPARENTE

KONDENSATOR/CAPACITOR
CONDENSATEUR/CONDENSATORE

- ELKO ELECTROLYTIC ELECTROLYTIQUE ELETTRITICO
- TANTAL ELKO TANTALUM ELECTROLYTIC ELECTROLYTIQUE AU TANTALE ELETTRITICO AL TANTALIO
- FOLIE FOLI A FEUILLE A FOGLIA
- KERAMIK CERAMIC CERAMIQUE A CERAMICA
- GLIMMER MICA AU MICA A MICA
- VIELSCHICHT MULTI-LAYER A COUCHES MULTIPLES A PIU' STRATI
- POLYPROPYLEN

LAGEPLAN

GRUNDIG

CF 7500

72008-295.43

Blatt 6