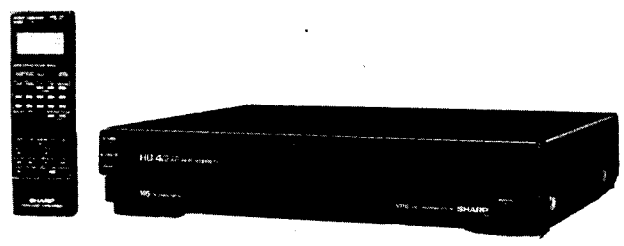


2636 VC-H865G(BK)  
VC-H865S(BK)

# SHARP SERVICE MANUAL SERVICE-ANLEITUNG

S89L1VC-H865G



**VHS VIDEO CASSETTE RECORDER**  
**VHS VIDEO-CASSETTEN-RECORDER**

## MODELS MODELL

# VC-H865G(BK) VC-H865S(BK)

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

Im Interesse der Benutzer-Sicherheit (gemäß den Sicherheitsvorschriften in einigen Ländern) sollte dieses Gerät wieder auf seinen ursprünglichen Zustand eingestellt und nur die vorgeschriebenen Teile verwendet werden.

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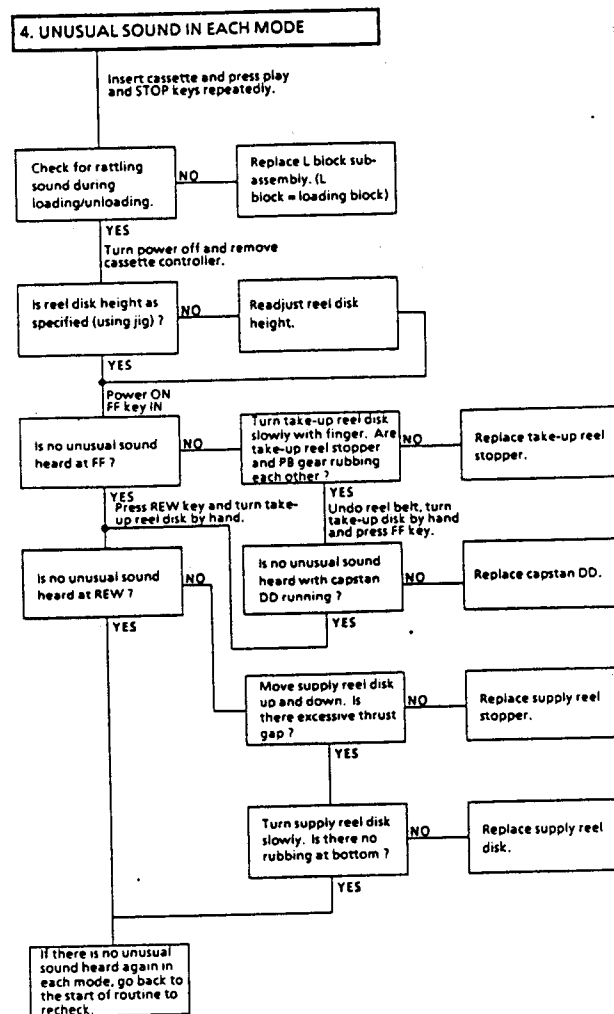
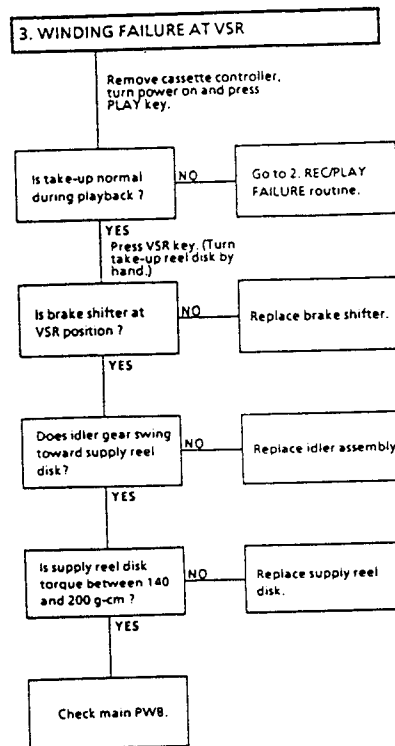
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No.	Problems	Probable causes and countermeasures
9.	Noises appear intermittently at the reproduced picture.	<ul style="list-style-type: none"> <li>• Check for capstan servo circuit (capstan frequency generator's signal at pin 11 of IC701 and playback control signal at pin 42 of IC701)</li> </ul>
10.	The picture collapses in the horizontal direction.	<ul style="list-style-type: none"> <li>• The drum servo circuit is defective.</li> <li>• Check if there are drum frequency generator's signal applied to pin 7 of IC701 and drum phase generator's signal to pin 4 of IC701.</li> <li>• Check if there is reference signal (4.43MHz) at pin 22 of IC701.</li> </ul>

• TROUBLES OF SOUND AND REPRODUCED PICTURE (Y/C AND AUDIO CIRCUIT)

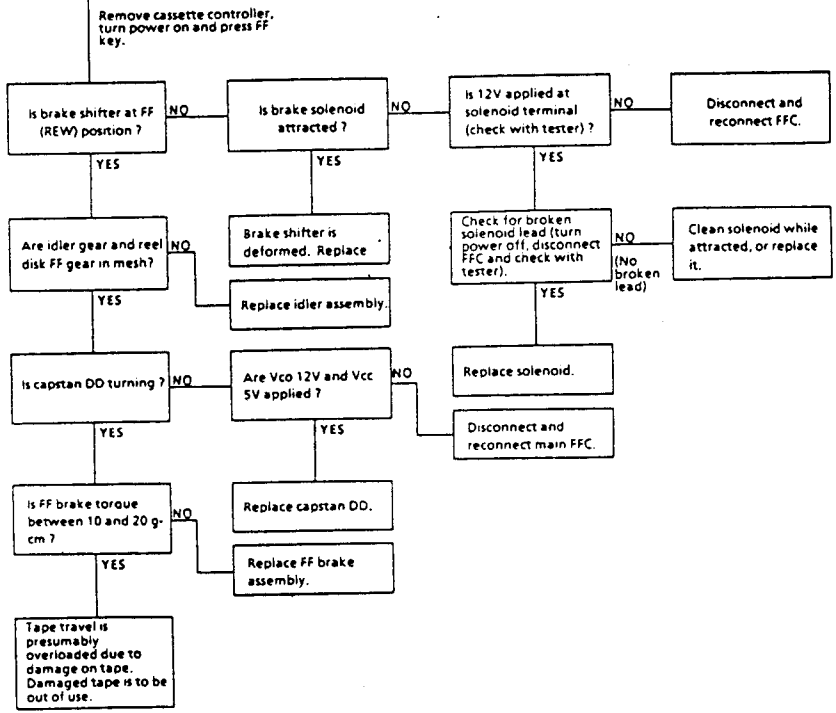
No.	Problems	Probable causes and countermeasures
1.	No picture appears.	<ul style="list-style-type: none"> <li>• Check if the video signal (E-E signal) is applied to pin 4 of IC201, if the video signal goes out of pin 10, and if proper voltage is applied to each pin of IC201.</li> <li>• Check if the video signal comes into pin 3 of IC2201 and goes out of pin 8 of IC2201 (in tuner mode).</li> <li>• Check if the E-E (L) signal is at low level at pin 26 of connector AX and pin 7 of IC2201.</li> </ul>
	At E-E mode	
	At playback of standard tape.	<p>Make sure that there appears a normal picture at E-E mode.</p> <ul style="list-style-type: none"> <li>• Check if the playback FM signal is applied to pin 4 of connector CE.</li> <li>• Check if the playback FM signal is applied to pins 20 and 21 of IC301.</li> <li>• Check if Vcc 5V is applied at pin 8 of IC401.</li> <li>• Check if the video signal (demodulator output) is given at pin 16 of IC401.</li> <li>• Check if the video signal is given at pin 1 of IC401.</li> <li>• Check if the base of Q202 is at high level (about 4V).</li> </ul>
	At playback of the tape recorded by oneself.	<p>Before this checking, make sure that normal playback is possible with standard tape.</p> <ul style="list-style-type: none"> <li>• Check if there is FM signal at pin 16 of IC401.</li> <li>• Check if there is video signal at pin 6 of IC201.</li> <li>• Check if there is video signal at pin 10 of IC201.</li> </ul>
2.	No colour appears.	<ul style="list-style-type: none"> <li>• Check if there is chroma signal at pin 30 of IC501.</li> <li>• APC is misadjusted (R506). It is not allowed to readjust them, this means that IC501 is defective.</li> <li>• Check if IC501 is normally functioning.</li> </ul>
3.	The picture collapses when the tape recorded by oneself is played back.	<ul style="list-style-type: none"> <li>• Check if there is a normal voltage at each pin of the head amplifier.</li> </ul>
4.	Noises appear on the whole of picture when the tape recorded by oneself is played back.	<ul style="list-style-type: none"> <li>• Check if there is a normal voltage at each pin of the head amplifier</li> <li>• Check the video head or replace it a new one.</li> </ul>

No.	Problems	Probable causes and countermeasures
5.	Noises is noticeable at E-E mode or when the tape recorded by oneself is played back.	<ul style="list-style-type: none"> <li>● The tuner and/or RF converter are defective.</li> <li>● Check if AT 5V is applied at pin 5 of the RF converter.</li> <li>● Check the coaxial cable between the tuner and the RF converter for breakage.</li> <li>● Disconnect the antenna cable to see if the DC voltage at the tuner's AGC terminal goes above 6V.</li> </ul>
6..	Noise appear on the picture when the tape is played back with standard tape.	<ul style="list-style-type: none"> <li>● Clean the video head or replace it a new one.</li> </ul>
7.	There appears no E-E sound.	<ul style="list-style-type: none"> <li>● First make sure the E-E picture appears as specified.(If not, the muting effect is produced.)</li> <li>● ALC at IC601 operates improperly.</li> <li>● Check if there is audio signal at pin 17 of IC601.</li> <li>● The audio muting circuit is defective.</li> </ul>
8.	There appears no sound at playback mode.	<ul style="list-style-type: none"> <li>● The audio head is defective.</li> <li>● Check if the control signal is applied. (If not, the muting effect is produced.)</li> <li>● Ckeck if playback audio signal is applied to pin 7 of IC601 and goes out of pin 17.</li> </ul>
9.	Sound is distorted.	<ul style="list-style-type: none"> <li>● The audio head is magnetized or defective.</li> <li>● Bias current is insufficient.</li> </ul>
10.	The reasonance in the recording or playback is incorrect.	<ul style="list-style-type: none"> <li>● The audio head is magnetized or defective.</li> <li>● Bias oscillator circuit is defective.</li> </ul>
11.	Recording is impossible.	<ul style="list-style-type: none"> <li>● Bias oscillator circuit is not normally functioning.</li> <li>● Ckeck if bias control 9V is at high level.</li> </ul>
12.	Noise and hum appear frequently during playback or recording.	<ul style="list-style-type: none"> <li>● The audio head is defective.</li> </ul>

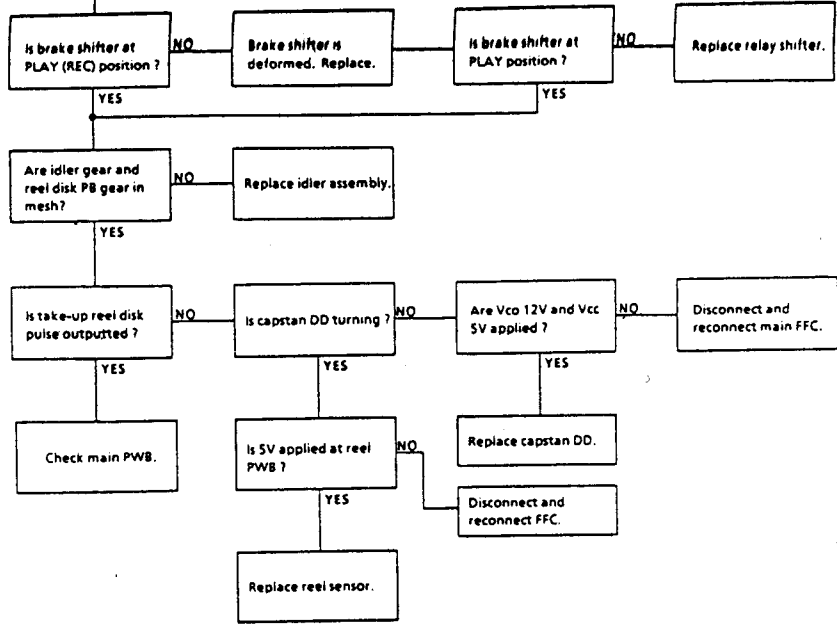


# MECHANISM TROUBLESHOOTING

## 1. FF/REW FAILURE (NO TAPE WINDING)



Remove cassette controller, turn power on and press PB key.

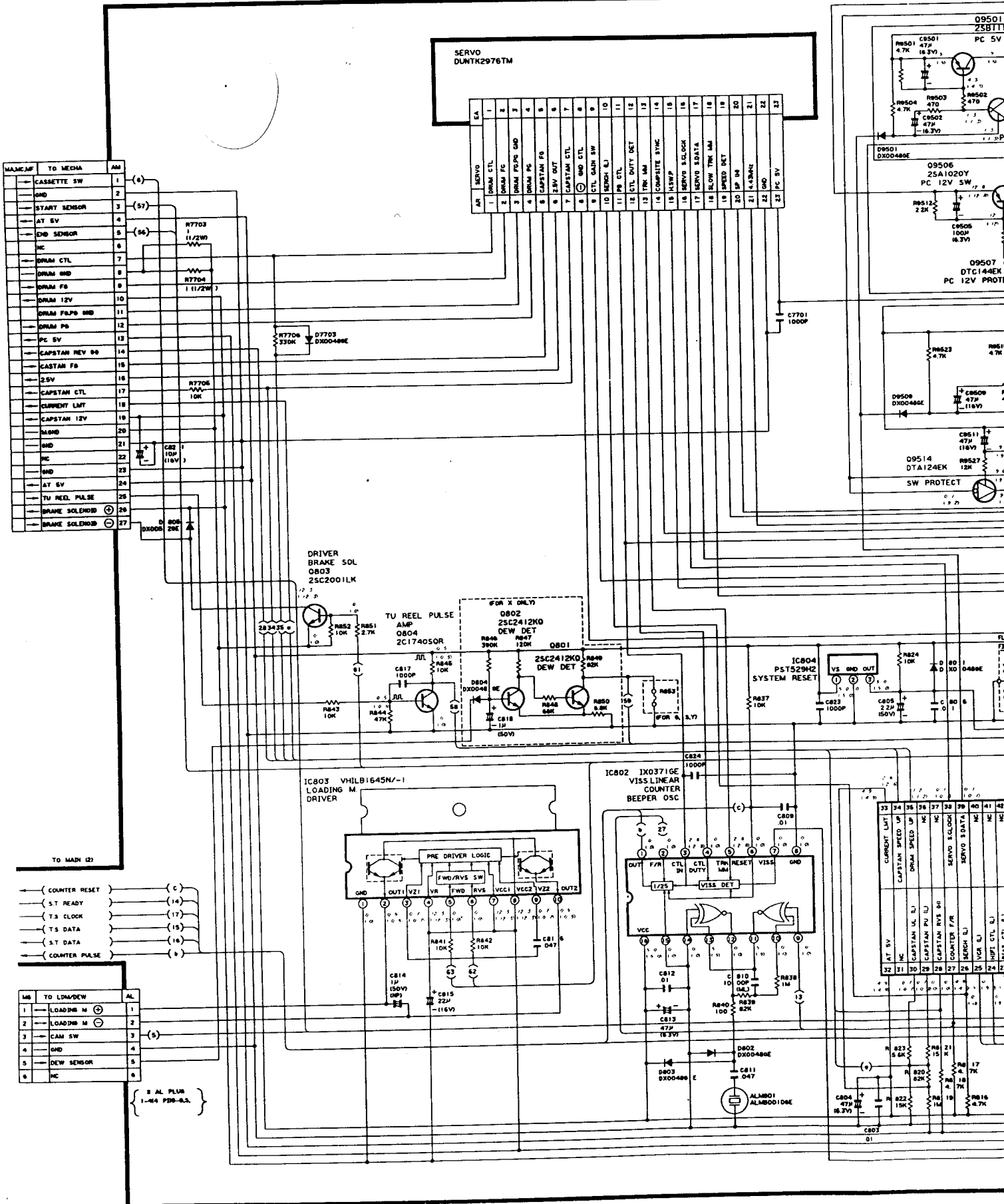


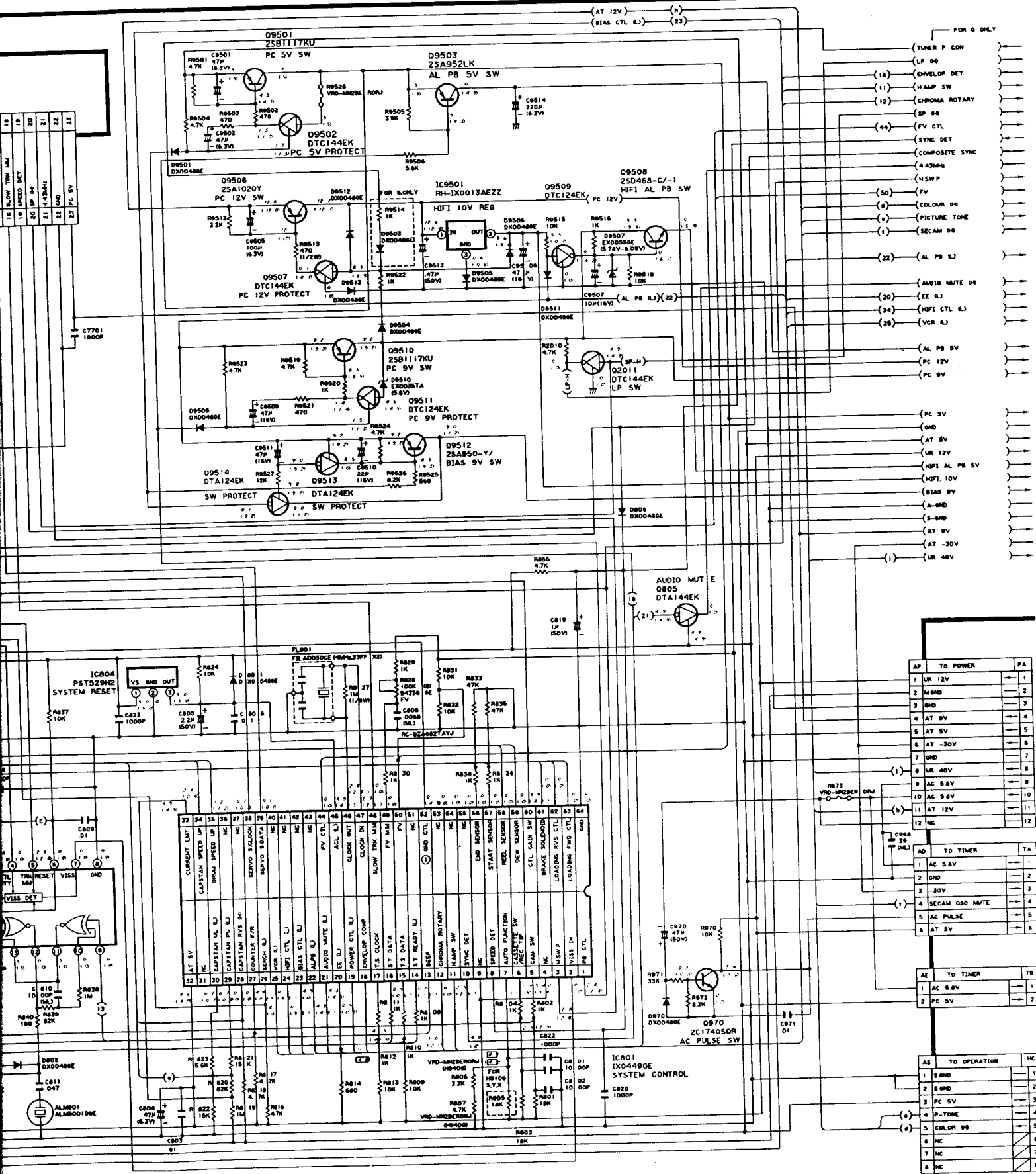
TROUBLESHOOTING GUIDE

● TROUBLES IN HI - FI SOUND REPRODUCTION

No.	Problems	Probable causes and countermeasures
1.	No sound in E - E mode.	<ul style="list-style-type: none"> <li>• Check if E - E signal is applied to pins 2 and 29 of IC6301 (in tuner mode).</li> <li>• Check if pin 18 of IC6401 is at "L" level.</li> <li>• Check if E - E signal is applied to pins 3 and 28 of IC6401.</li> <li>• Check IC6301 for defect.</li> </ul>
2.	No Hi - Fi sound in playback mode.	<ul style="list-style-type: none"> <li>• Make sure that sound is heard in E - E mode.</li> <li>• Check if pin 18 of IC6401 is at "H" level.</li> <li>• Check if signal is applied to pins 2 and 29 of IC6401.</li> <li>• Check if pin 3 of IC6402 is at "H" level.</li> <li>• Check if FM playback signal is applied to TP6503 and TP6504.</li> <li>• Check IC6402 for defect.</li> <li>• Check IC6501 for defect.</li> </ul>
3.	Hi - Fi recording impossible.	<ul style="list-style-type: none"> <li>• Check if recorded audio signal is put in to pins 12 and 31 of IC6402.</li> <li>• Check recording current.</li> <li>• Check Hi - Fi head for clogging or defect.</li> </ul>
4.	Hi - Fi recording / playback sensitivity too low.	<ul style="list-style-type: none"> <li>• Check deviation for maladjustment.</li> </ul>

# IN CIRCUIT (1) JPTSCHALTUNG 1





- (TUNER P CON)
- (LP DD)
- (18) (ENVELOP DET)
- (11) (HAMP SW)
- (12) (CHROMA ROTARY)
- (SP DD)
- (44) (FV CTL)
- (4) (SYNC DET)
- (4) (COMPOSITE SYNC)
- (4) (433M)
- (4) (H SWP)
- (50) (FV)
- (6) (COLOUR DD)
- (5) (PICTURE TCNE)
- (1) (SECAM DD)
- (22) (AL PB RJ)
- (AUDIO MUTE DD)
- (20) (EE RJ)
- (24) (HFI CTL RJ)
- (26) (VCR RJ)
- (AL PB 5V)
- (PC 12V)
- (PC 9V)
- (PC 5V)
- (GND)
- (AT 5V)
- (UR 12V)
- (HFI AL PB 5V)
- (HFI 10V)
- (BIAS 9V)
- (A-BND)
- (S-BND)
- (AT 9V)
- (AT -30V)
- (UR 40V)

AP	TO POWER	PA
1	UR 12V	1
2	M GND	2
3	GND	3
4	AT 9V	4
5	AT 5V	5
6	AT -30V	6
7	GND	7
8	UR 40V	8
9	AC 5.8V	9
10	AC 5.8V	10
11	AT 12V	11
12	NC	12

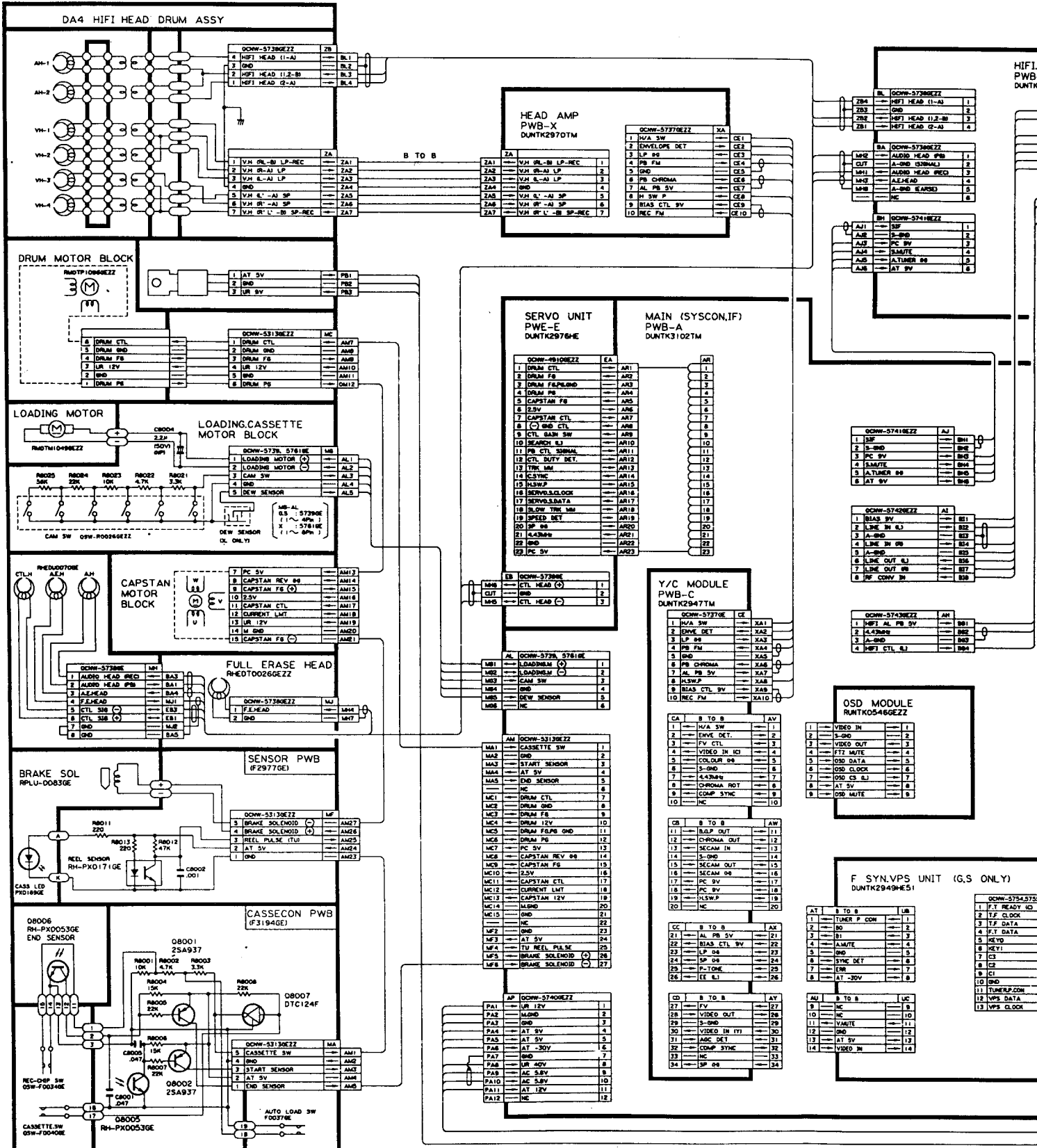
AD	TO TIMER	TA
1	AC 5.8V	1
2	GND	2
3	-30V	3
4	SECAM OSD MUTE	4
5	AC PULSE	5
6	AT 5V	6

AE	TO TIMER	TE
1	AC 5.8V	1
2	PC 5V	2

AS	TO OPERATION	HC
1	S GND	1
2	B GND	2
3	PC 5V	3
4	P-TONE	4
5	COLOR DD	5
6	NC	6
7	NC	7
8	NC	8

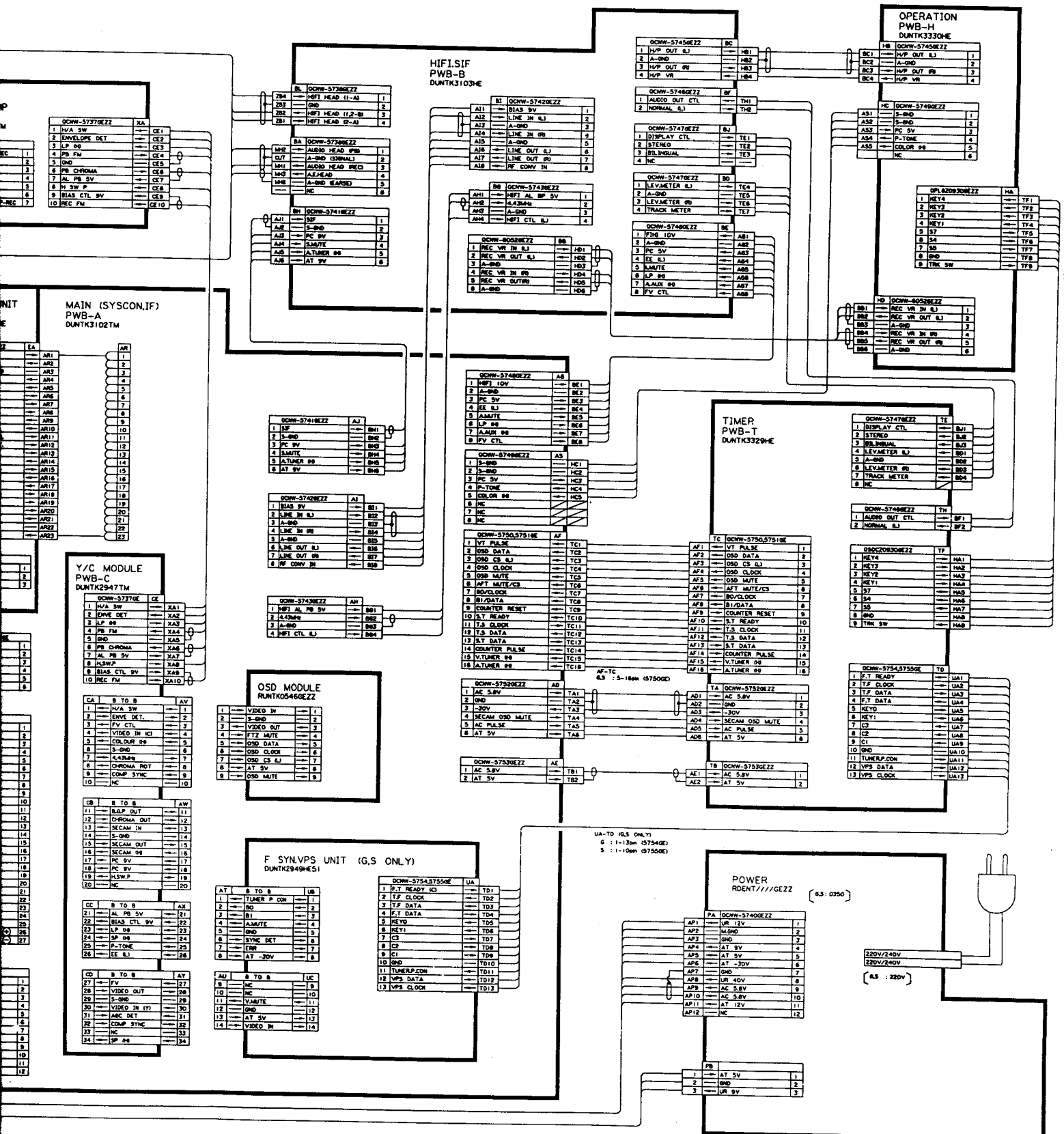


OVERALL DIAGRAM  
GESAMTSCHALTPLAN



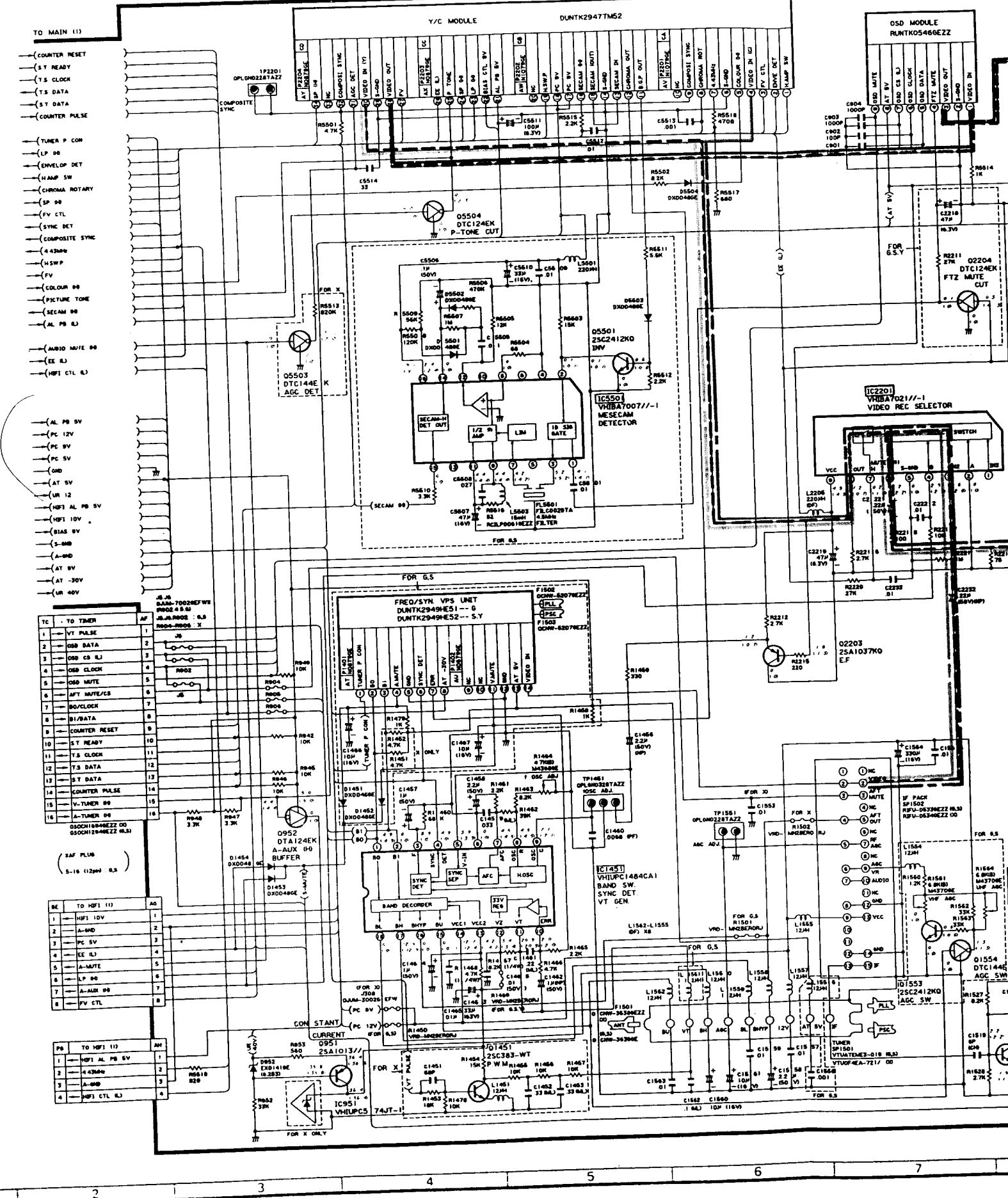
VC-H865G(BK)  
VC-H865S(BK)

VC-H865G(BK)  
VC-H865S(BK)



VIDEO-E-E-SIGNAL  
Playback Signal  
WIEDERGABE-SIGNAL  
E-E Signal  
E-E-SIGNAL

E-E L-Channel Signal  
E-E(L-KANAL)-SIGNAL  
Record Chroma Signal  
AUFNAHME-FARBTO-



- TO MAIN (1)
- COUNTER RESET
- ST READY
- TS CLOCK
- TS DATA
- ST DATA
- COUNTER PULSE
- TUNER P CON
- LP 00
- ENVELOP DET
- HAMP SW
- CHROMA ROTARY
- SP 00
- FV CTL
- SYNC DET
- COMPOSITE SYNC
- 4.43MHz
- HSWP
- FV
- COLOUR 00
- PICTURE TONE
- SECAM 00
- AL PB 03
- AUDIO MUTE 00
- EE 03
- HPTI CTL 03
- AL PB 0V
- PC 12V
- PC 0V
- PC 5V
- 0ND
- AT 5V
- UR 12
- HPTI AL PB 5V
- HPTI 10V
- BIAS 0V
- A-0ND
- AT 0V
- AT -30V
- UR 40V

- | TC | TO TIMER      | AF |
|----|---------------|----|
| 1  | VT PULSE      | 1  |
| 2  | OSD DATA      | 2  |
| 3  | OSD CS 03     | 3  |
| 4  | OSD CLOCK     | 4  |
| 5  | OSD MUTE      | 5  |
| 6  | AFT MUTE/CS   | 6  |
| 7  | 00/CLOCK      | 7  |
| 8  | 01/DATA       | 8  |
| 9  | COUNTER RESET | 9  |
| 10 | ST READY      | 10 |
| 11 | TS CLOCK      | 11 |
| 12 | TS DATA       | 12 |
| 13 | ST DATA       | 13 |
| 14 | COUNTER PULSE | 14 |
| 15 | V-TUNER 00    | 15 |
| 16 | A-TUNER 00    | 16 |

- | BC | TO HPTI (1) | AN |
|----|-------------|----|
| 1  | HPTI 10V    | 1  |
| 2  | A-0ND       | 2  |
| 3  | PC 5V       | 3  |
| 4  | EE 03       | 4  |
| 5  | A-MUTE      | 5  |
| 6  | LP 00       | 6  |
| 7  | A-AUD 00    | 7  |
| 8  | FV CTL      | 8  |

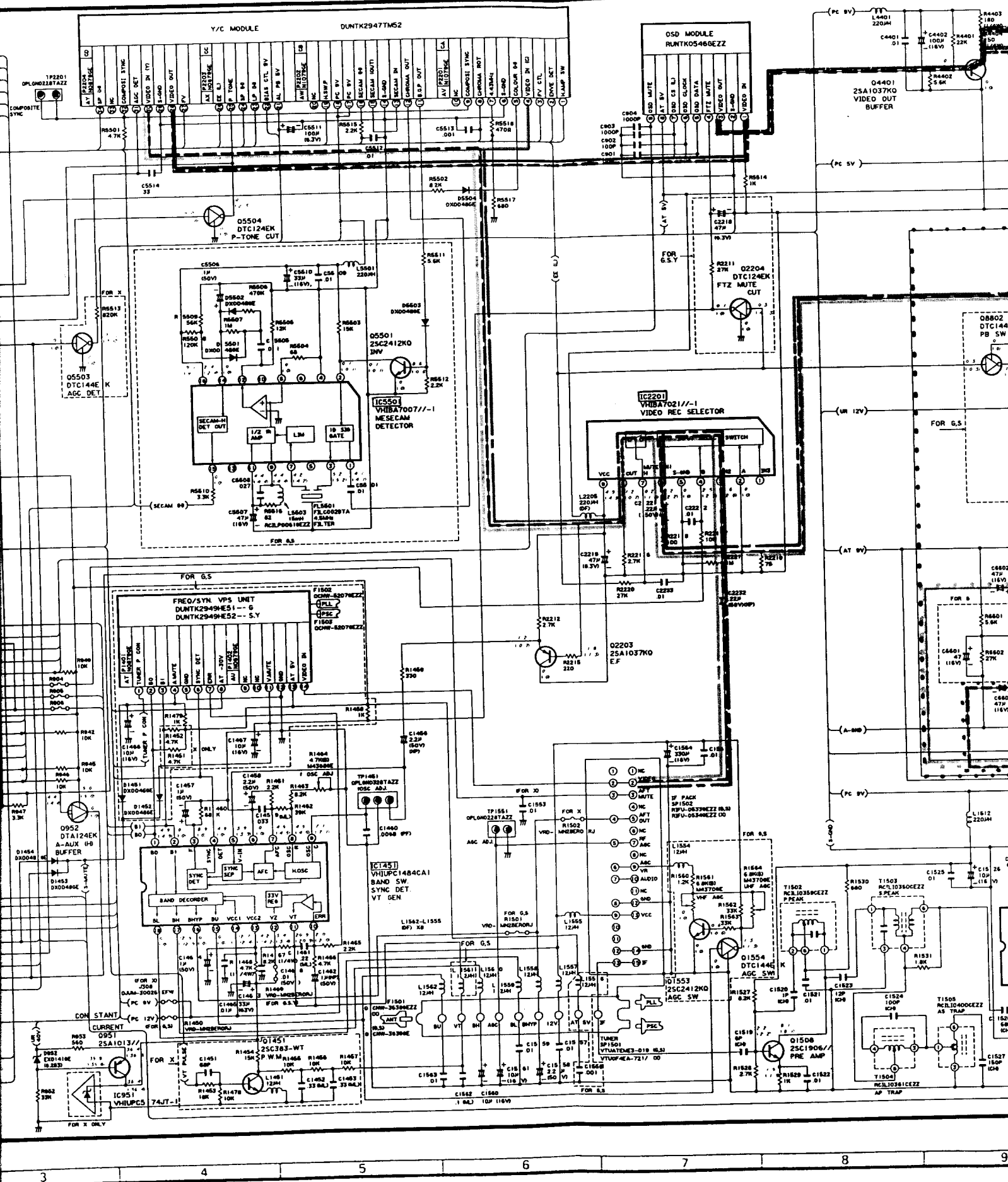
VIDEO-E-E-SIGNAL

Playback Signal  
WIEDERGABE-SIGNAL

E-E Signal  
E-E-SIGNAL

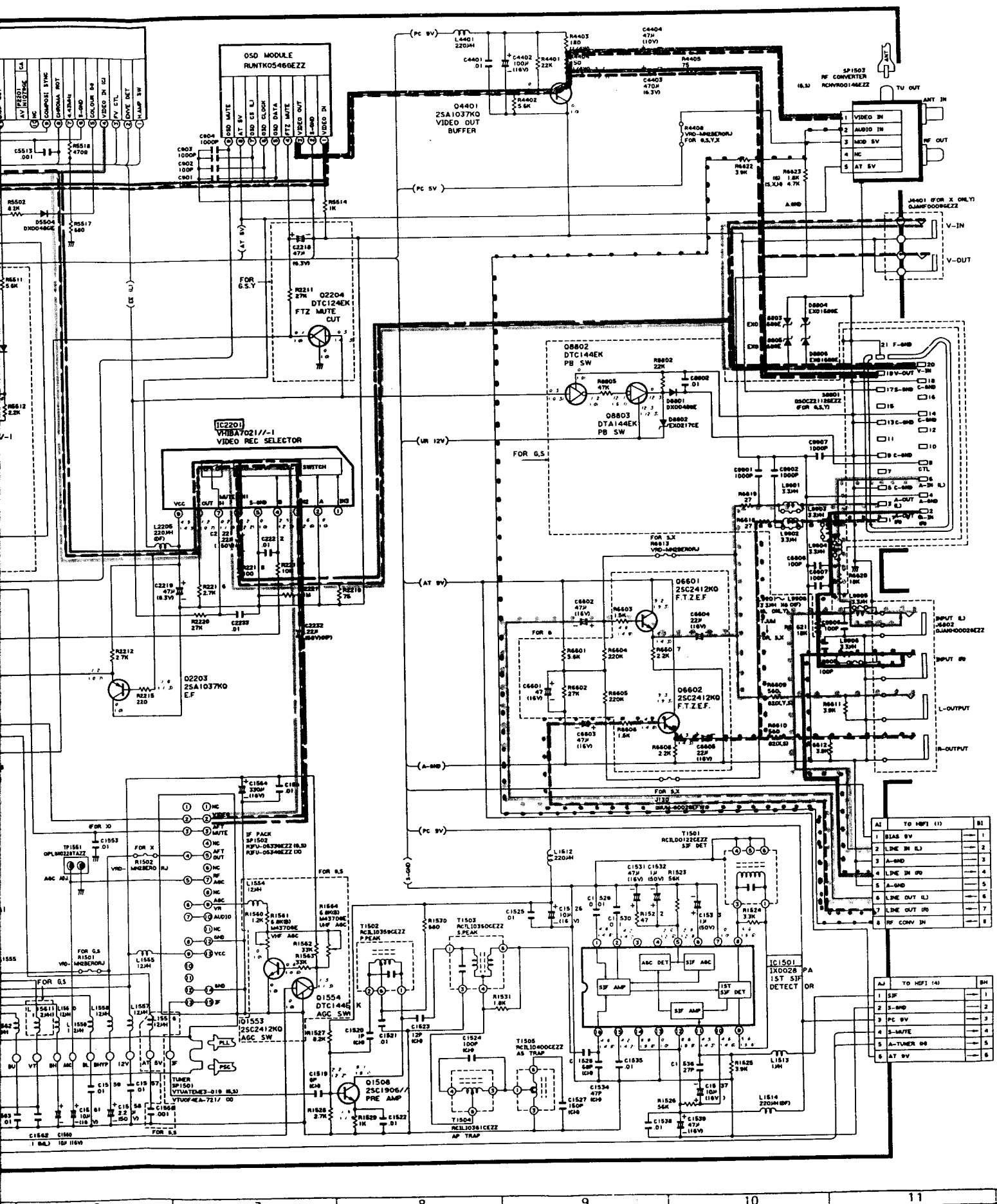
E-E L-Channel Signal  
E-E(L-KANAL)-SIGNAL

Record Chroma Signal  
AUFNAHME-FARBTO-SIGNAL



E-E L-Channel Signal  
 E-E(L-KANAL)-SIGNAL  
 Record Chroma Signal  
 AUFNAHME-FARBTO-SIGNAL

E-E R-Channel Signal  
 E-E(R-KANAL)-SIGNAL  
 Record Luminance Signal  
 AUFNAHME-HELLIGKEITS-SIGNAL



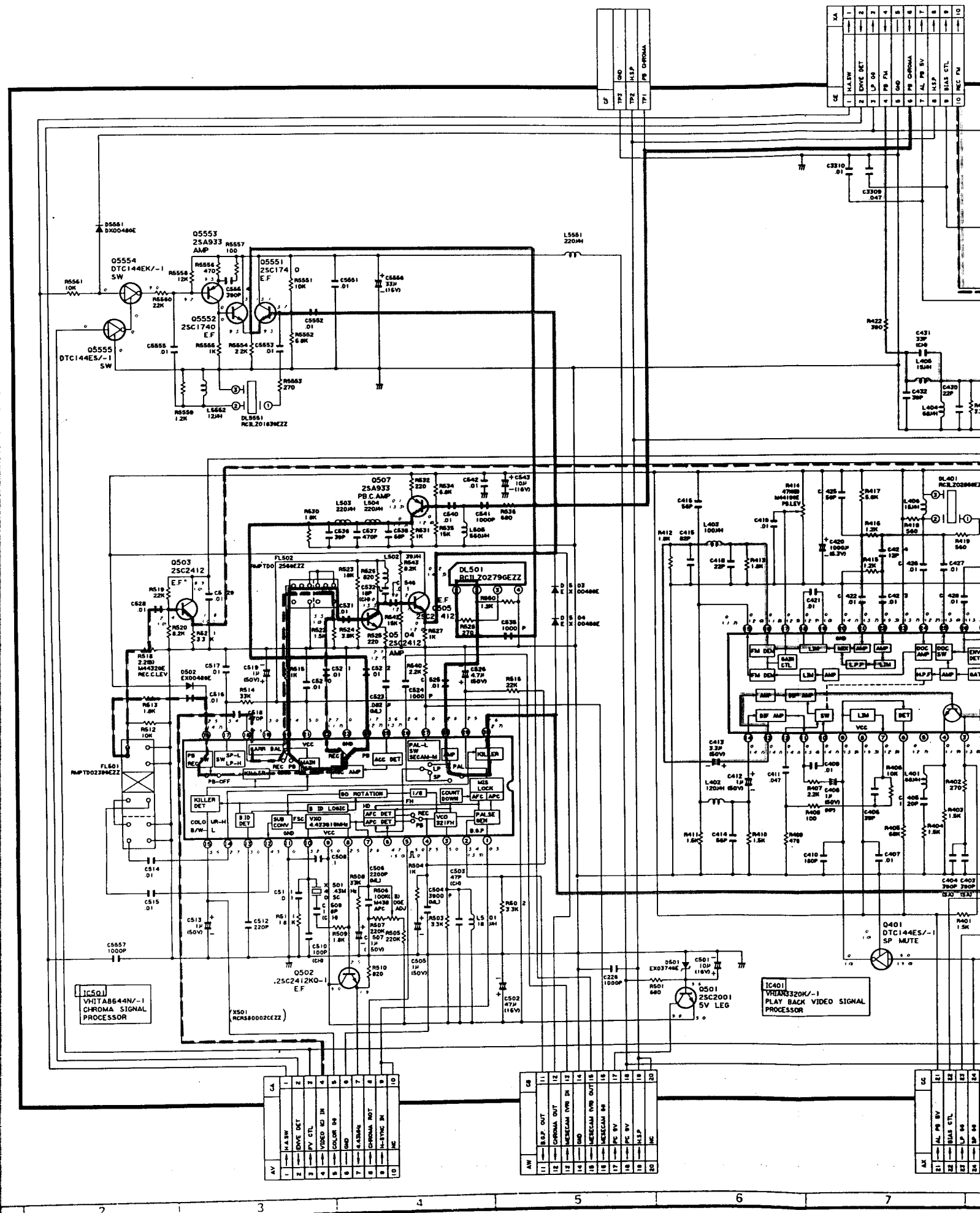
AI	TO HP1 (1)	BI
1	BIAS 5V	1
2	LINE IN (L)	2
3	A-AND	3
4	LINE IN (R)	4
5	A-AND	5
6	LINE OUT (L)	6
7	LINE OUT (R)	7
8	RF CONV IN	8

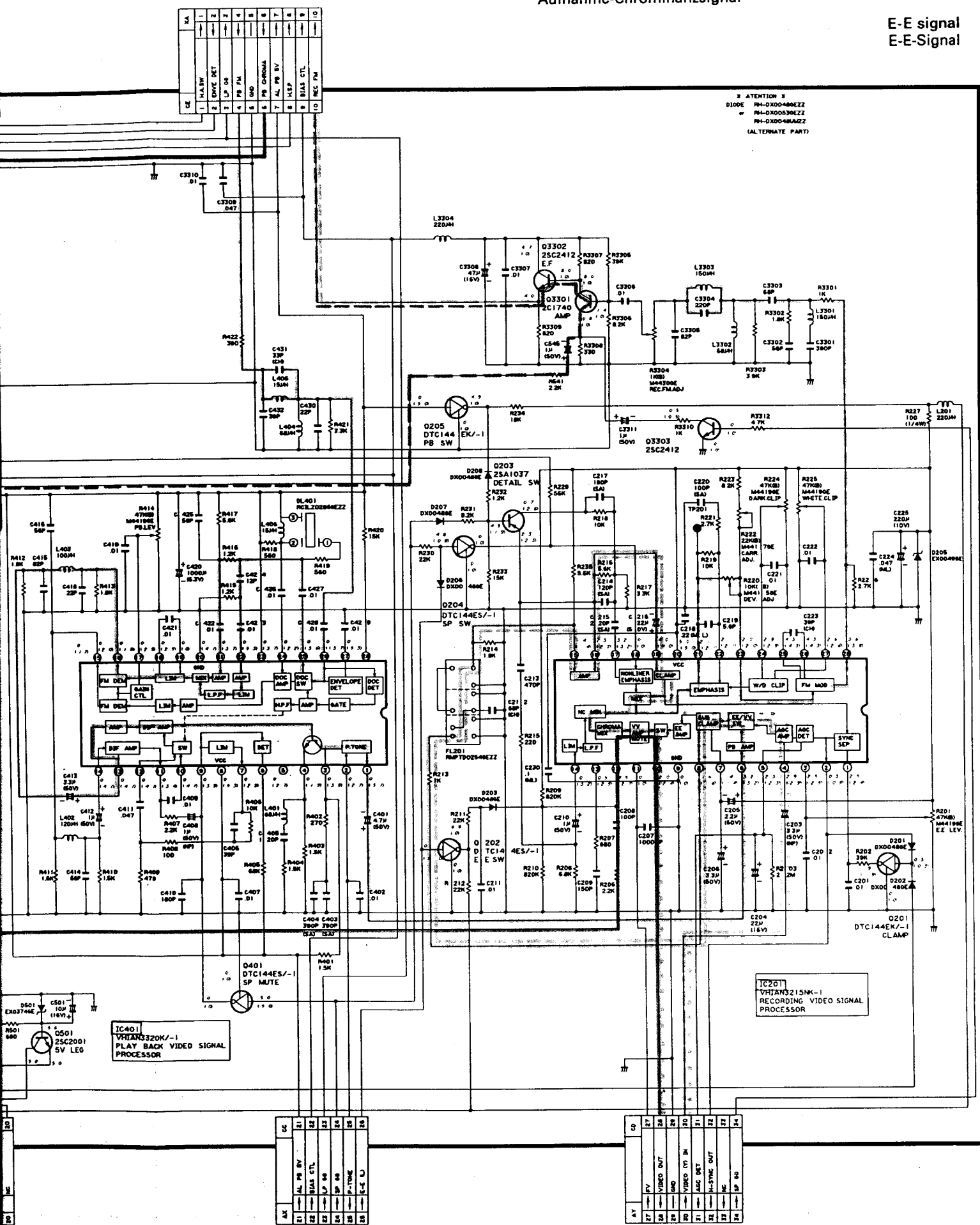
AJ	TO HP1 (4)	BH
1	SIF	1
2	S-AND	2
3	PC 5V	3
4	S-MUTE	4
5	A-TUNER (R)	5
6	AT 5V	6

\* SPANNUNGSMESSUNG  
 WIEDERGABE .....  
 AUFNAHME .....

# CHALKKREIS



NT MODE



6

7

8

9

10

11

# SCHALTUHR-SCHALTUNG

DATUM AUFN. K-SUCHL. STEREO  
 DIGITAL STAMP DOPPELBILD BILINGUAL  
 MULTI  
 EINZEL. STROBE INTERV.

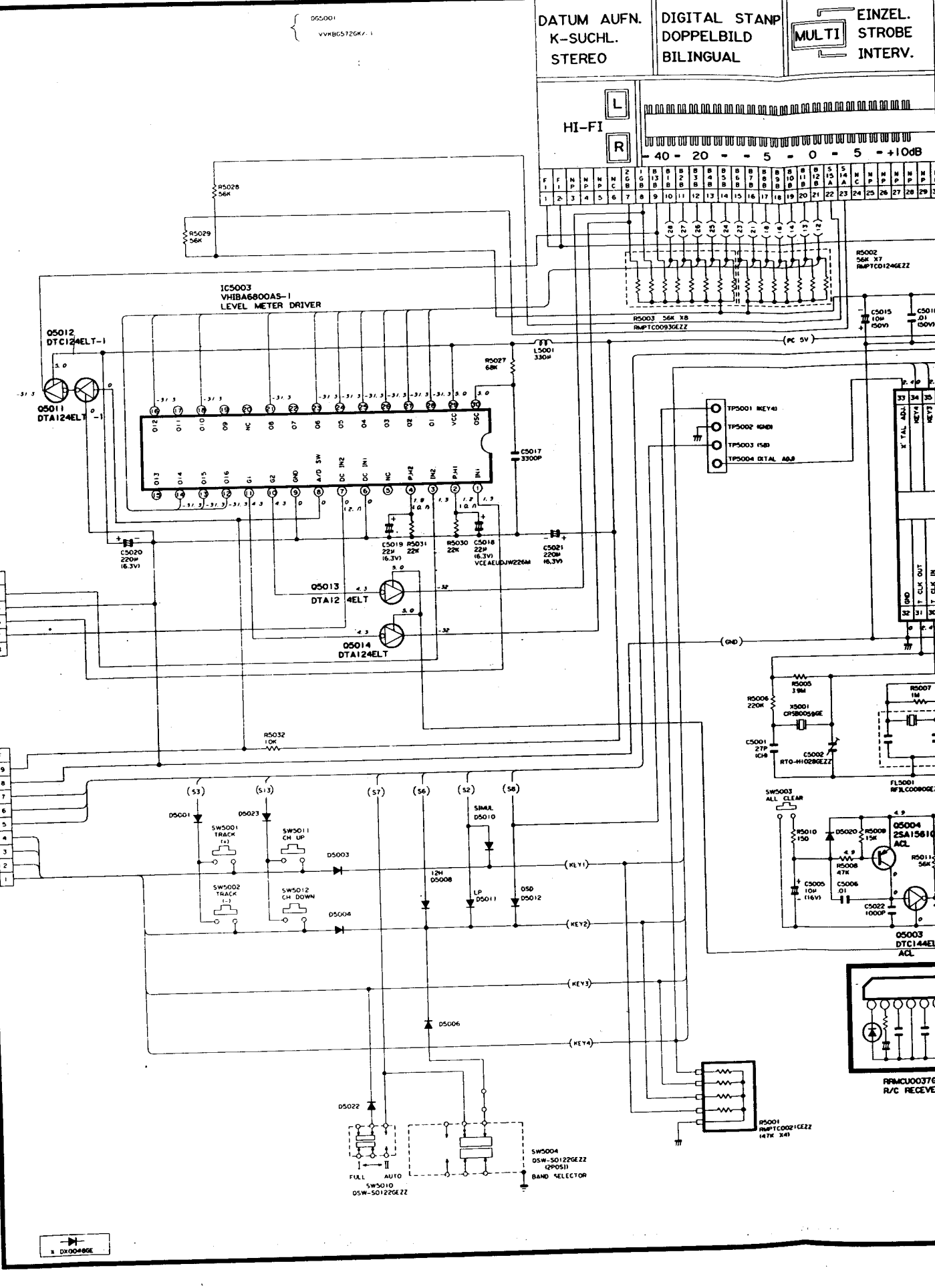
HI-FI  
 -40 - 20 - - 5 - 0 - 5 - +10dB

BO.BJ	TO HI-FI (1)	TE
1	LEV.METER HL	4
2	A-GND	5
3	LEV.METER HR	6
4	TRACK METER	7
4	NC	8

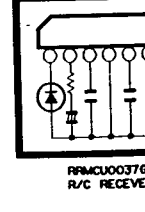
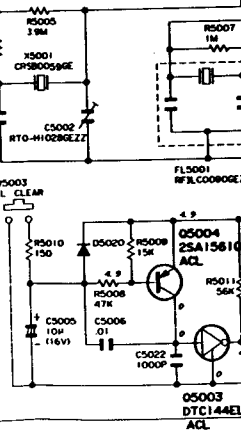
NA	TO OPERATION	TF
9	TRK SW	9
8	GND	8
7	S5	7
6	S4	6
5	S7	5
4	KEY1	4
3	KEY2	3
2	KEY3	2
1	KEY4	1

050C709306Z2

2 3 4 5 6 7



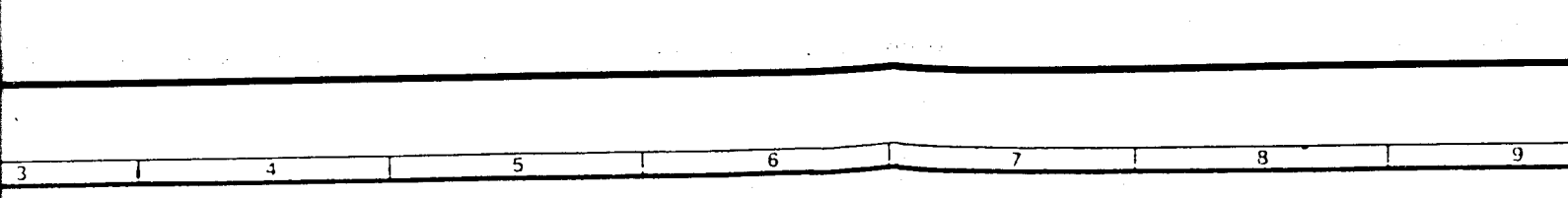
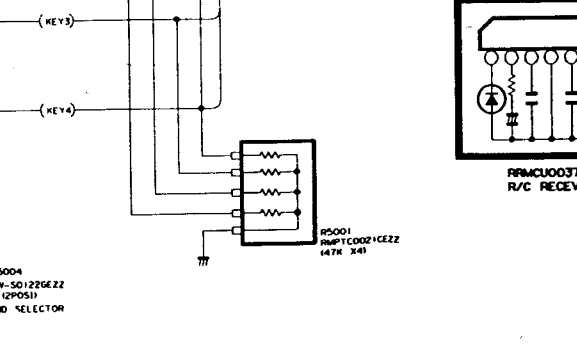
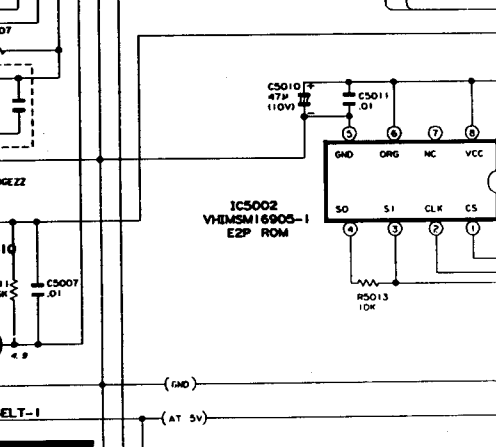
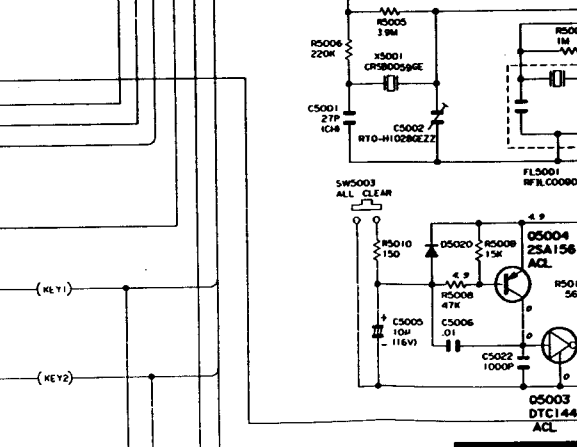
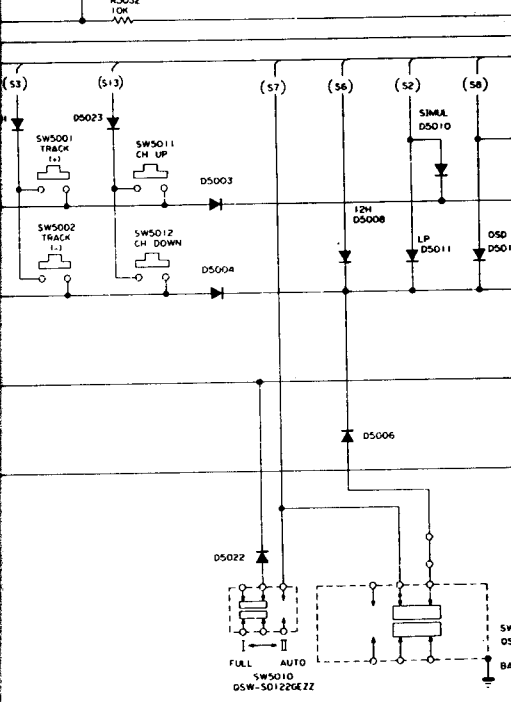
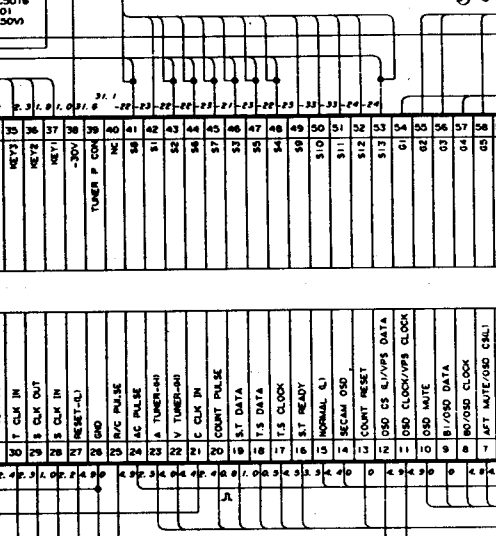
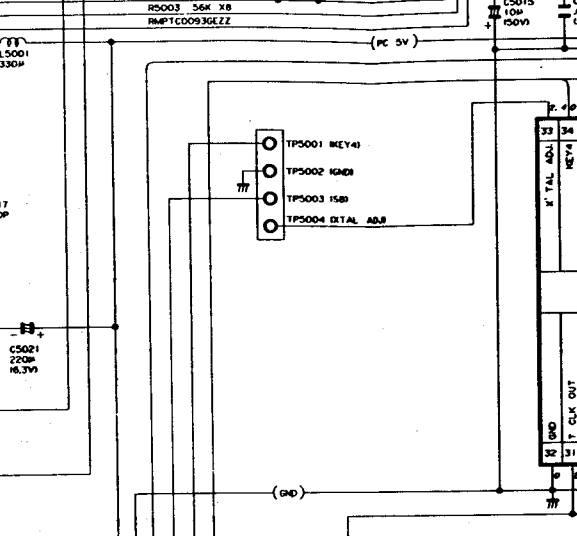
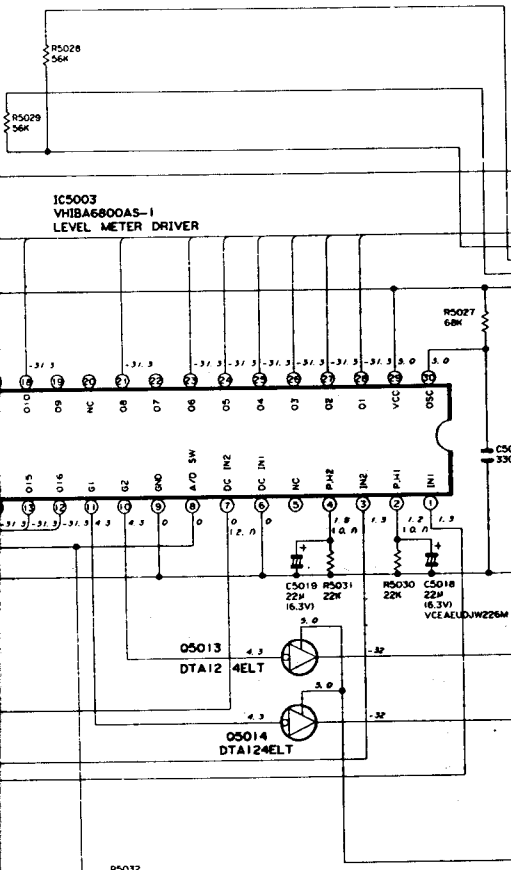
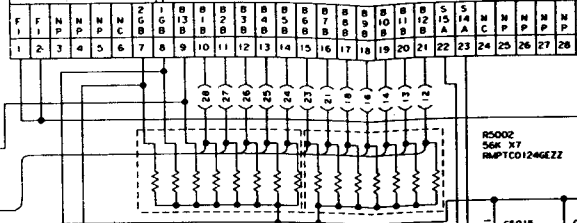
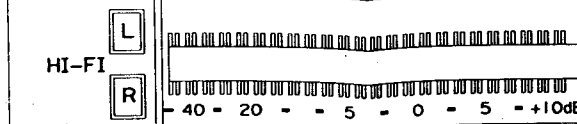
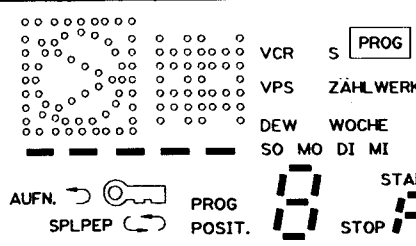
DX00#80E





D5501  
VVK8C572G47-1

DATUM AUFN. K-SUCL. STEREO  
DIGITAL STAMP DOPPELBILD BILINGUAL  
MULTI  
EINZEL. STROBE INTERV.



DIGITAL STAMP  
DOPPELBILD  
BILINGUAL

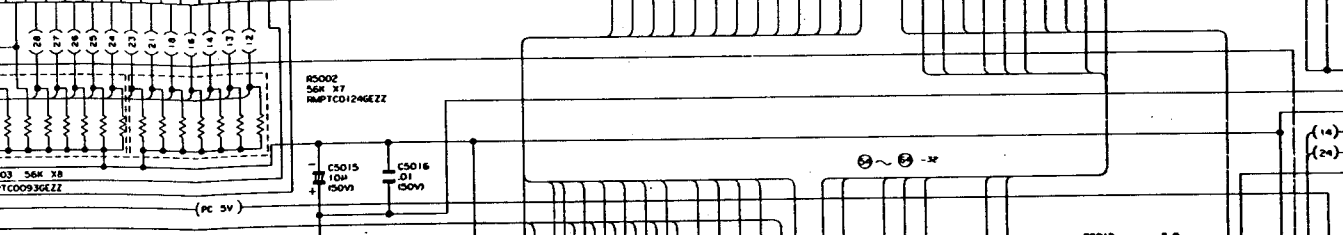
EINZEL.  
STROBE  
INTERV.

VCR S PROG ⊖ ⊕ TIMER CH INDEX ADRS  
VPS ZÄHLWERK DATUM J LÖSCHEN  
DEW WOCH E DÄILY SIMUL  
SO MO DI MI DO FR SA

AUFN. SPLPEP PROG START  
STOP 00:00:00 M

40 - 20 - 5 - 0 - 5 - +10dB

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

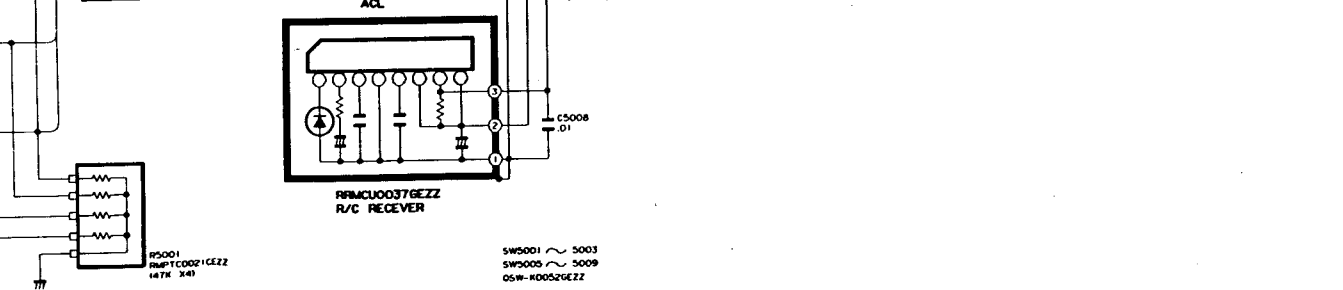
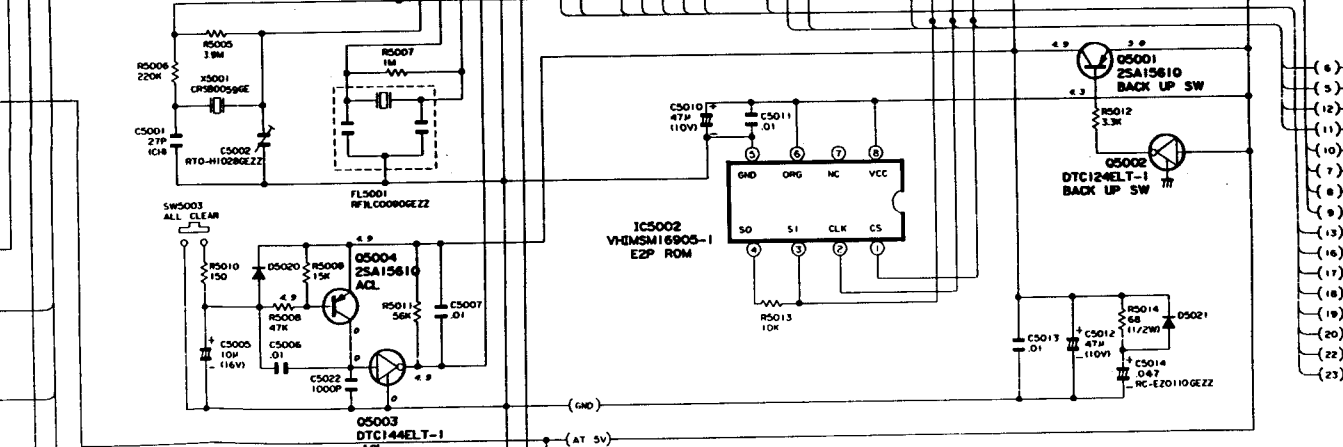
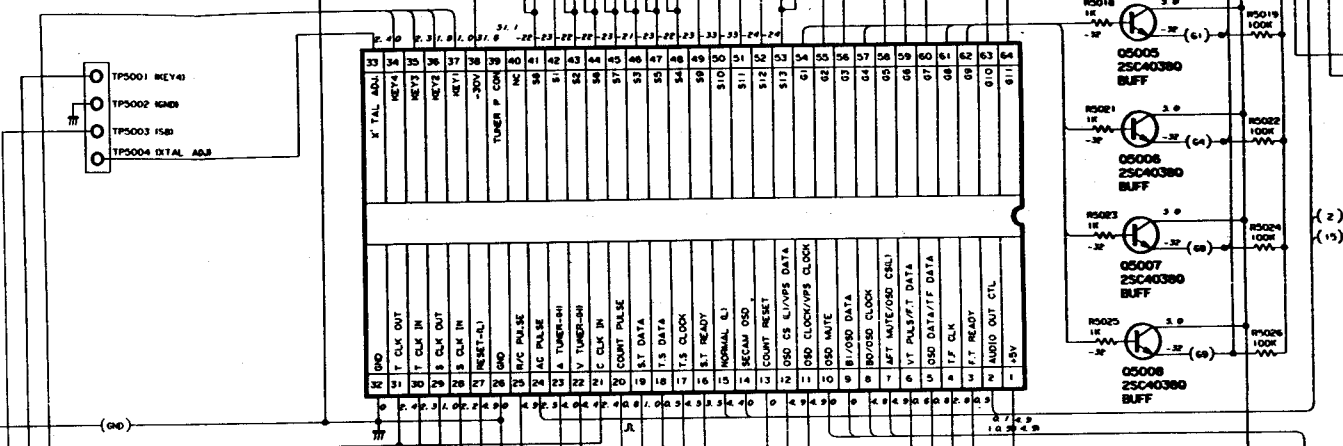


TA	TO MAIN (1)	AD
1	AC 5.8V	1
2	GND	2
3	-30V	3
4	SECAM OSD MUTE	4
5	AC PULSE	5
6	AT 5V	6

TB	TO MAIN (1)	AE
1	AC 5.8V	1
2	PC 5V	2

TC	TO MAIN (2)	BF
1	AUDIO OUT CTL	1
2	NORMAL RL	2

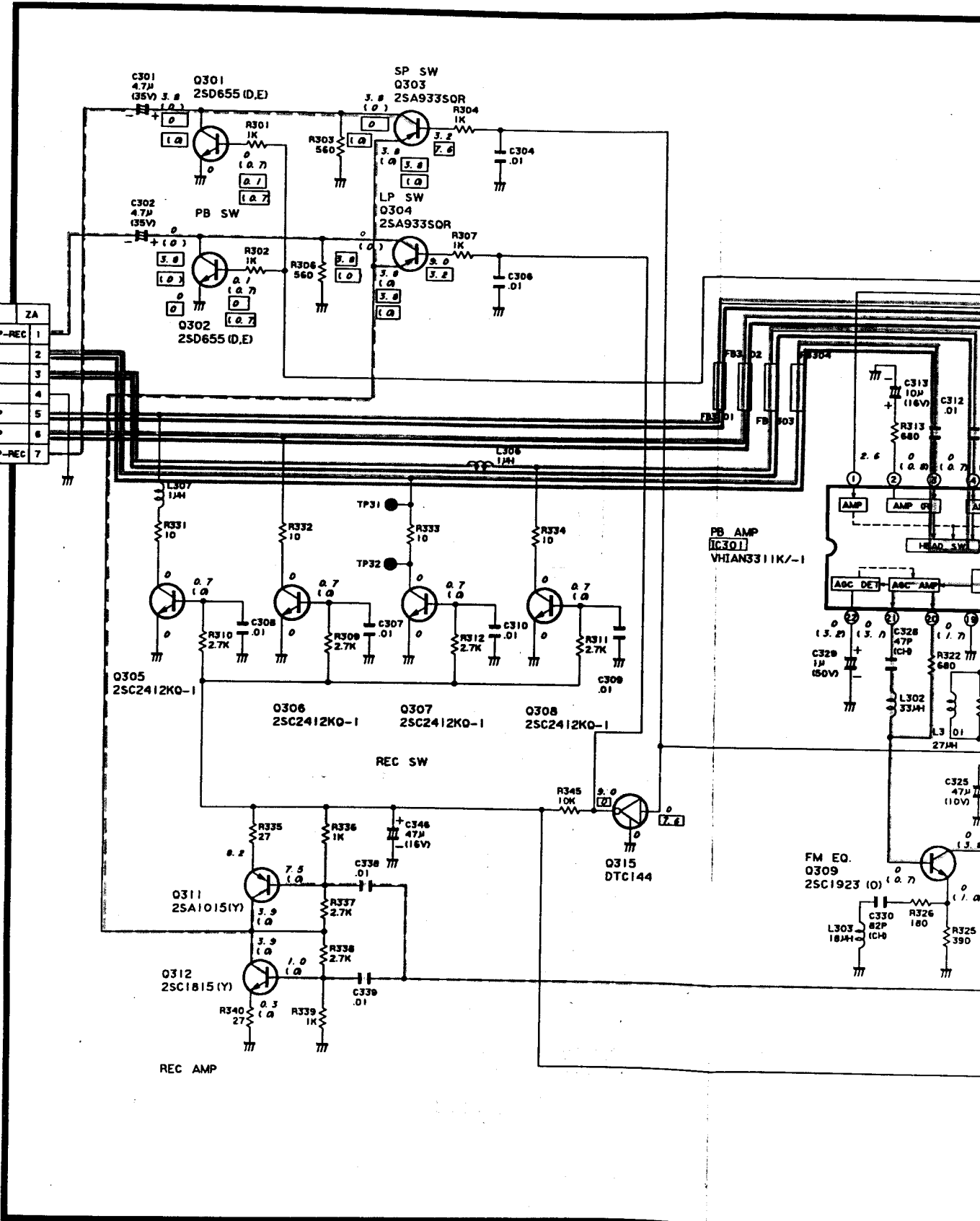
TC	TO MAIN (2)	BF
1	VT PULSE	1
2	OSD DATA	2
3	OSD CS RL	3
4	OSD CLOCK	4
5	OSD MUTE	5
6	APT MUTE/CS	6
7	BO	7
8	BI	8
9	COUNTER RESET	9
10	ST READY	10
11	T.S CLOCK	11
12	T.S DATA	12
13	ST DATA	13
14	COUNTER PULSE	14
15	V TUNER 1H	15
16	A TUNER 1H	16

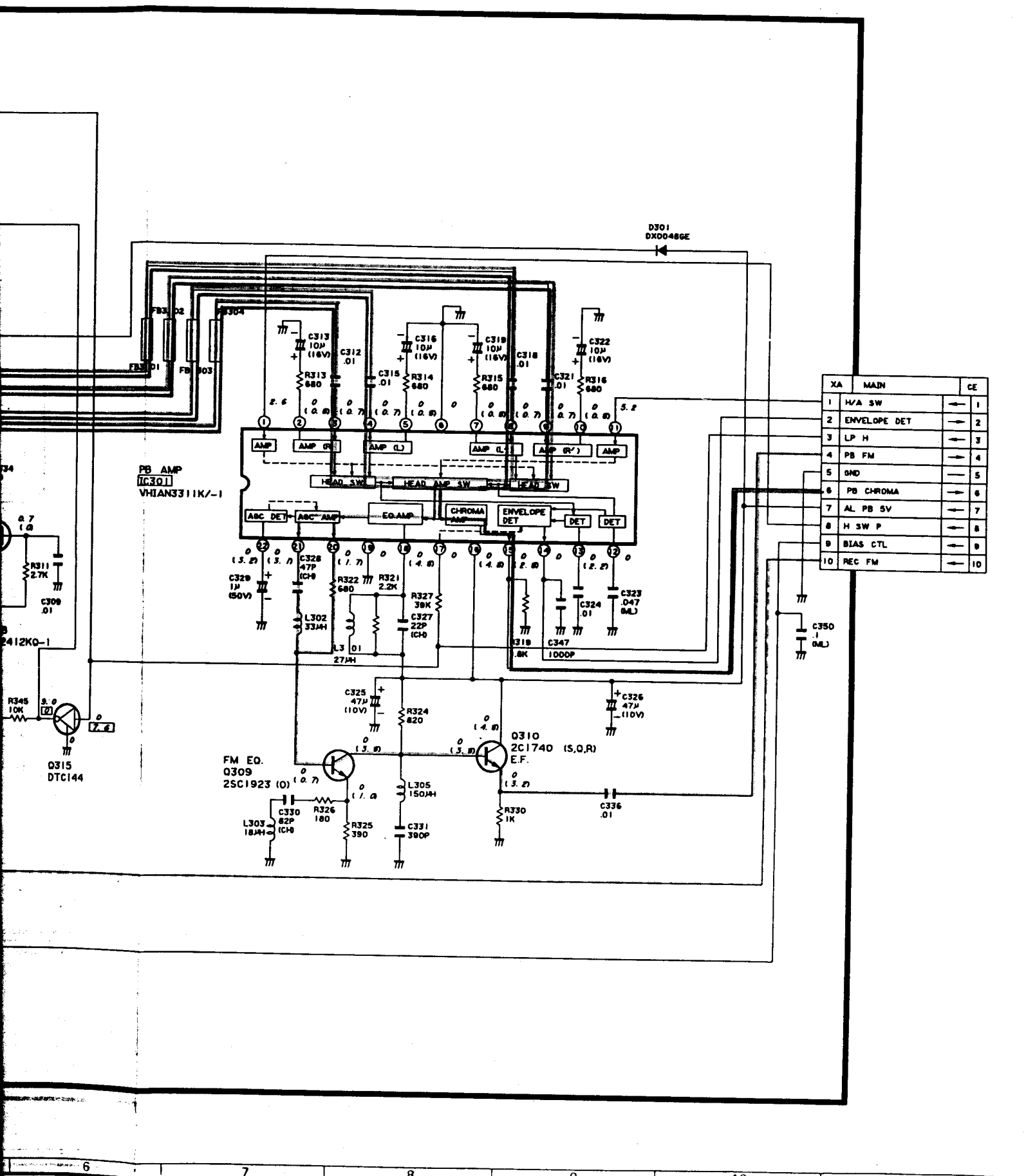


SW5001 ~ 5003  
SW5005 ~ 5009  
05W-K0052GEZZ

# VORSTÄRKERSCHALTUNG

H/A	ZA
ZA1	V-HEADRL-B/LP-REC 1
ZA2	V-HEADR-A/LP 2
ZA3	V-HEADL-A/LP 3
ZA4	GND 4
ZA5	V-HEADR'-A/SP 5
ZA6	V-HEADR'-A/SP 6
ZA7	V-HEADL-B/SP-REC 7

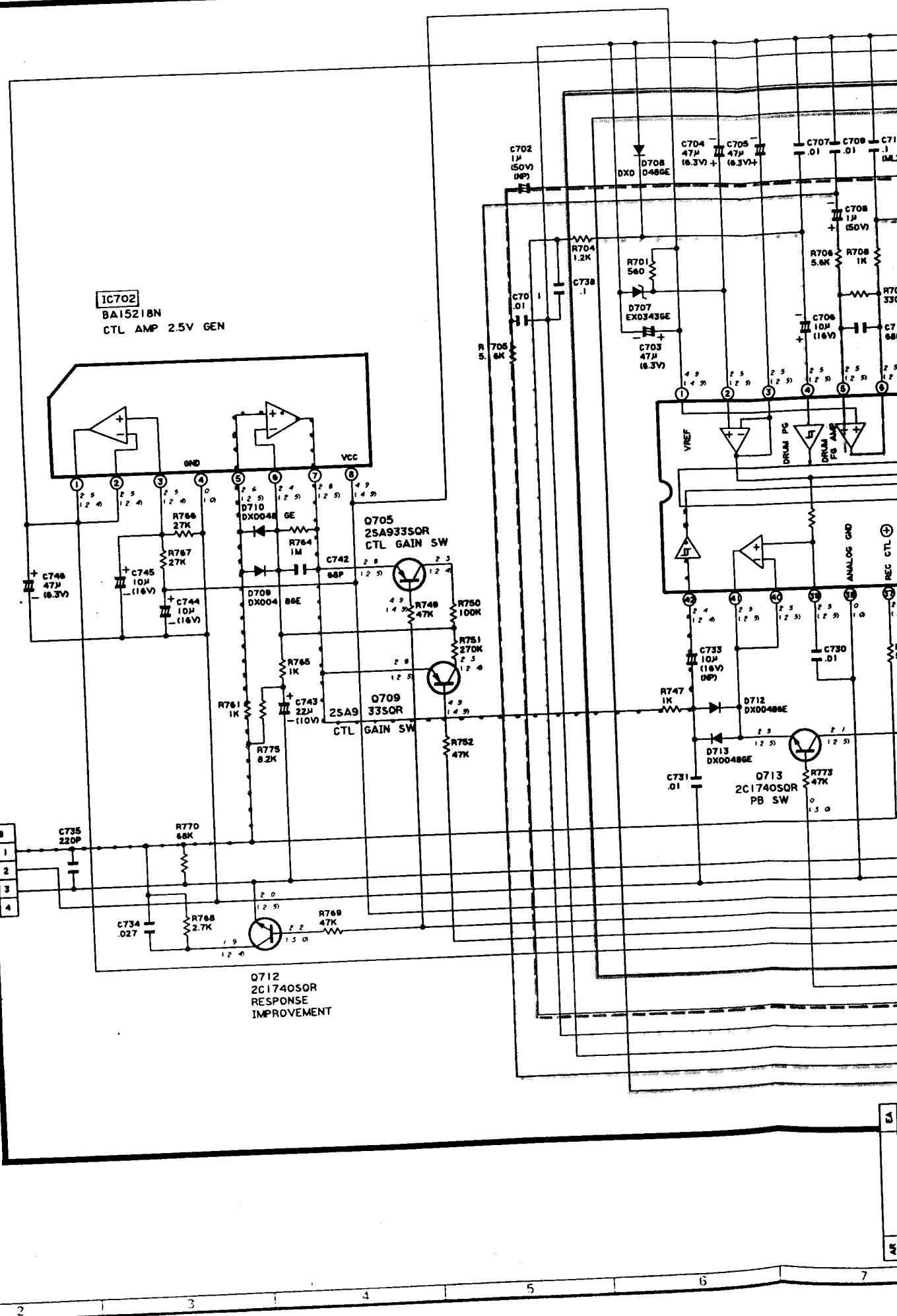


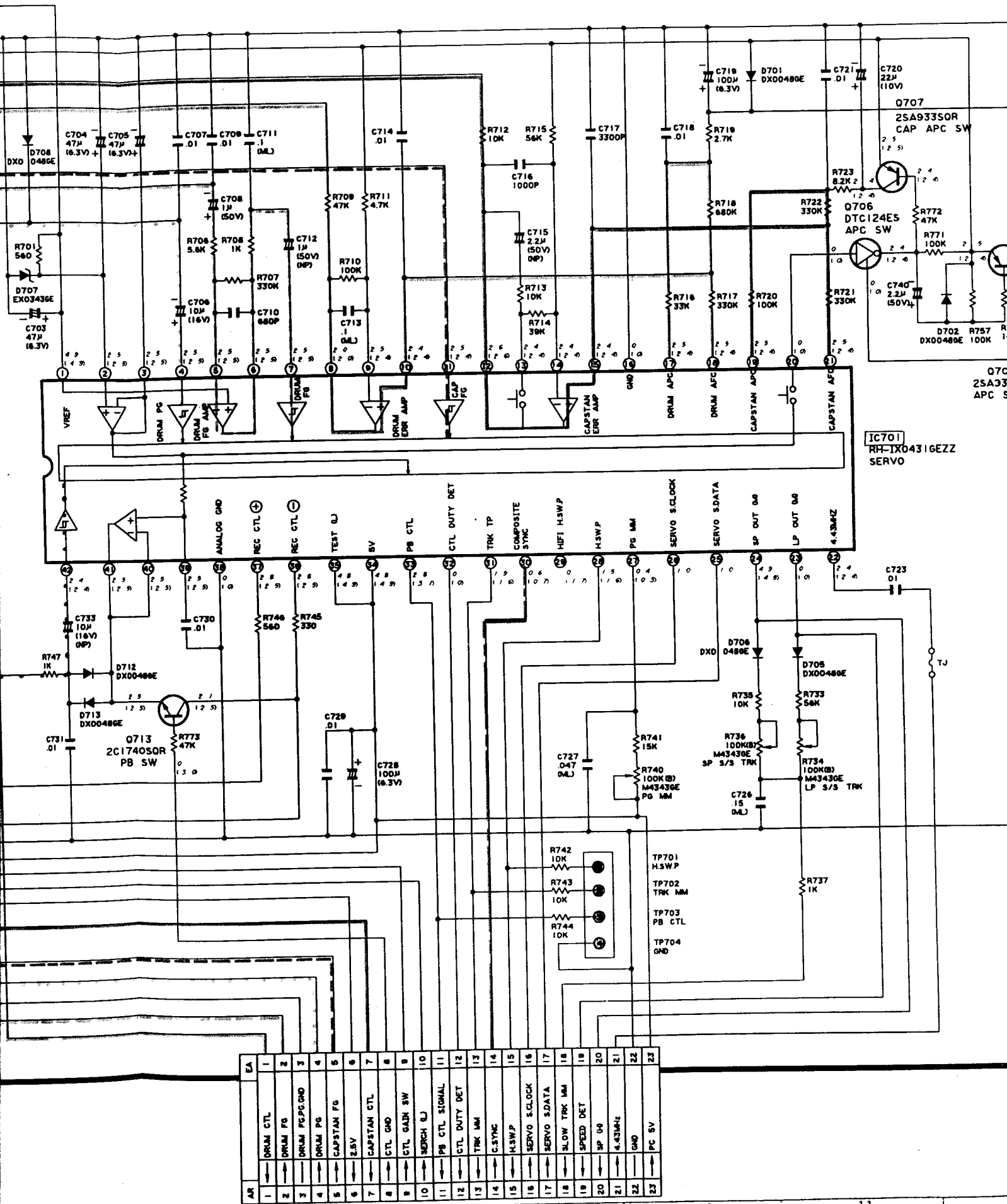


XA	MAIN	CE
1	M/A SW	← 1
2	ENVELOPE DET	→ 2
3	LP H	← 3
4	PB FM	→ 4
5	GND	→ 5
6	PB CHROMA	→ 6
7	AL PB SV	← 7
8	H SW P	← 8
9	BIAS CTL	← 9
10	REC FM	← 10

# VO CIRCUIT VOSCHALTKREIS

MM	TO POWER	ED
5	CTL HEAD ⊕	1
	GND	2
6	CTL HEAD ⊖	3
	NC	4





EA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
AR	DRUM CTL	DRUM PG	DRUM FB	DRUM PG	CAPSTAN FB	2.5V	CAPSTAN CTL	CTL GND	CTL GAIN SW	SEARCH LJ	PB CTL SIGNAL	CTL DUTY DET	TRK MM	C.SYNC	H.SWP	SERVO S.CLOCK	SERVO S.DATA	SLOW TRK MM	SPEED DET	SP UH	4.43MHz	GND	PC 5V

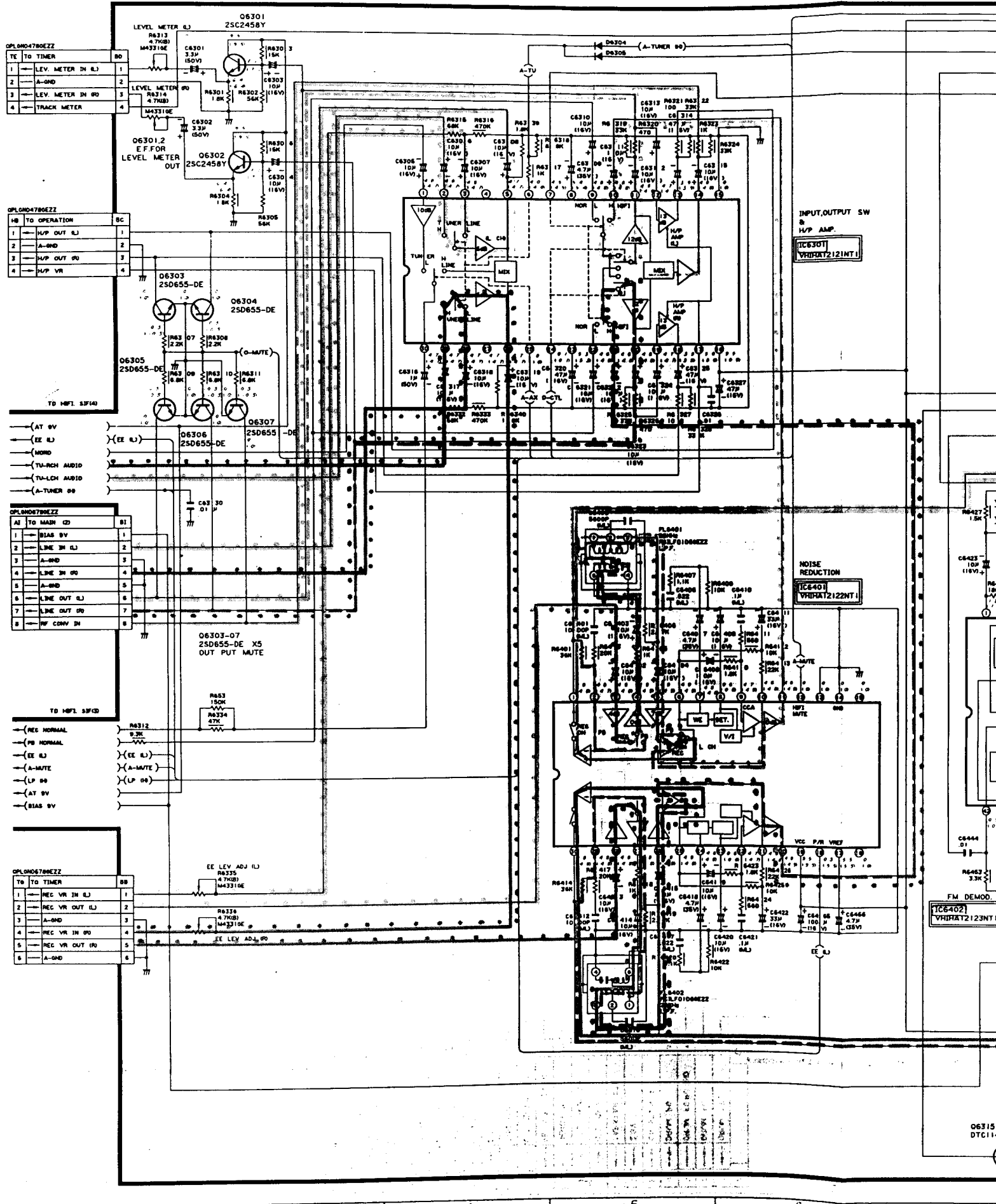
\* SPANNUNGSMESSTMETH  
WIEDERGABE ..... Rund  
AUFNAHME ..... Ohne

E-E Signal  
E-E-SIGNAL

WIEDERGA...

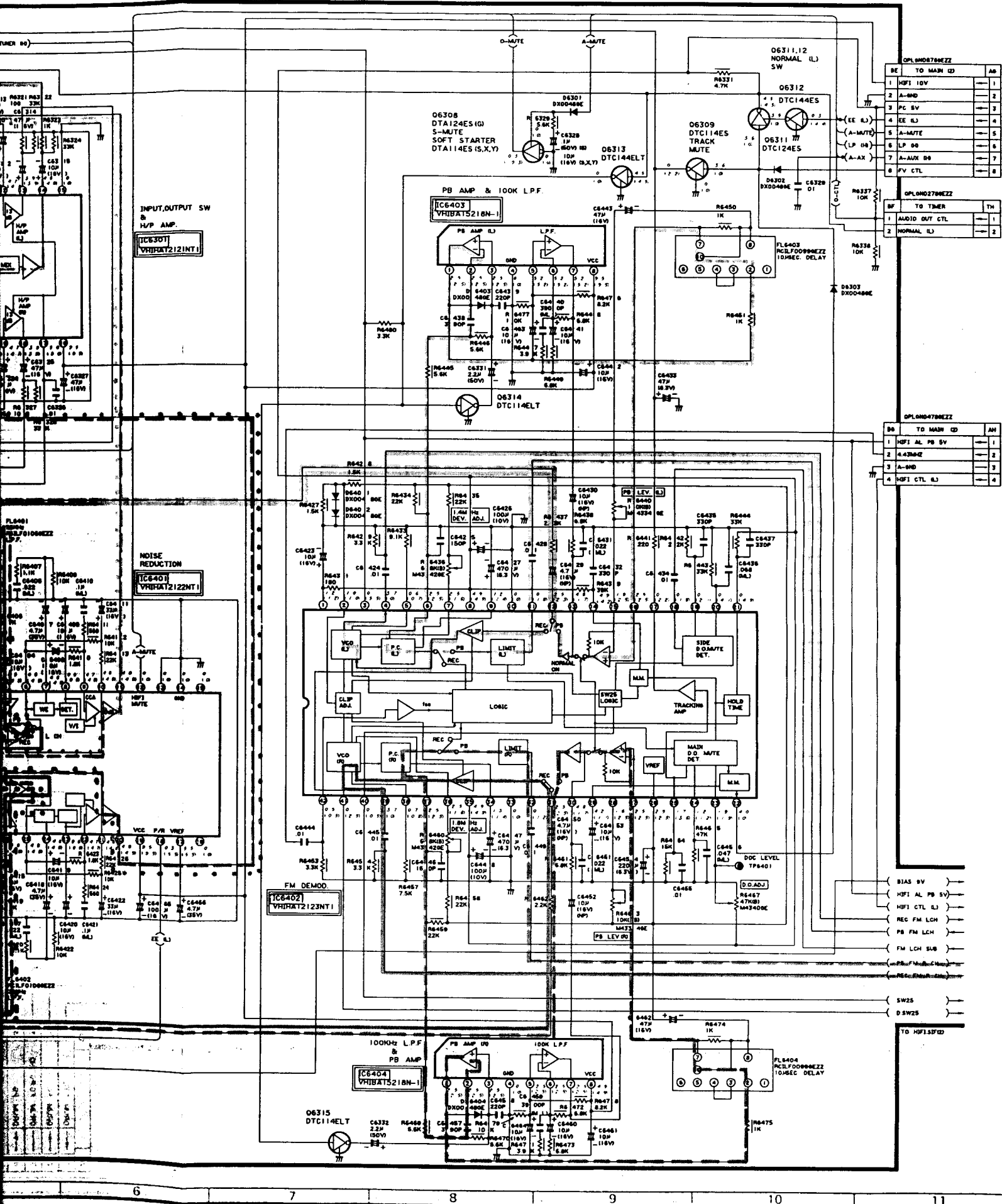
E-E L-Char...

E-E(L-KANAL



MEASUREMENT MODE  
...  
Parentheses

O6315  
DTC114



BE	TO MAIN CD	AM
1	HFI 10V	1
2	A-BND	2
3	PC SV	3
4	EE LJ	4
5	A-MUTE	5
6	LP 00	6
7	A-AUR 00	7
8	FV CTL	8

BF	TO TIMER	TH
1	AUDIO OUT CTL	1
2	NORMAL LJ	2

BO	TO MAIN CD	AM
1	HFI AL PB SV	1
2	A-3NDZ	2
3	A-BND	3
4	HFI CTL LJ	4

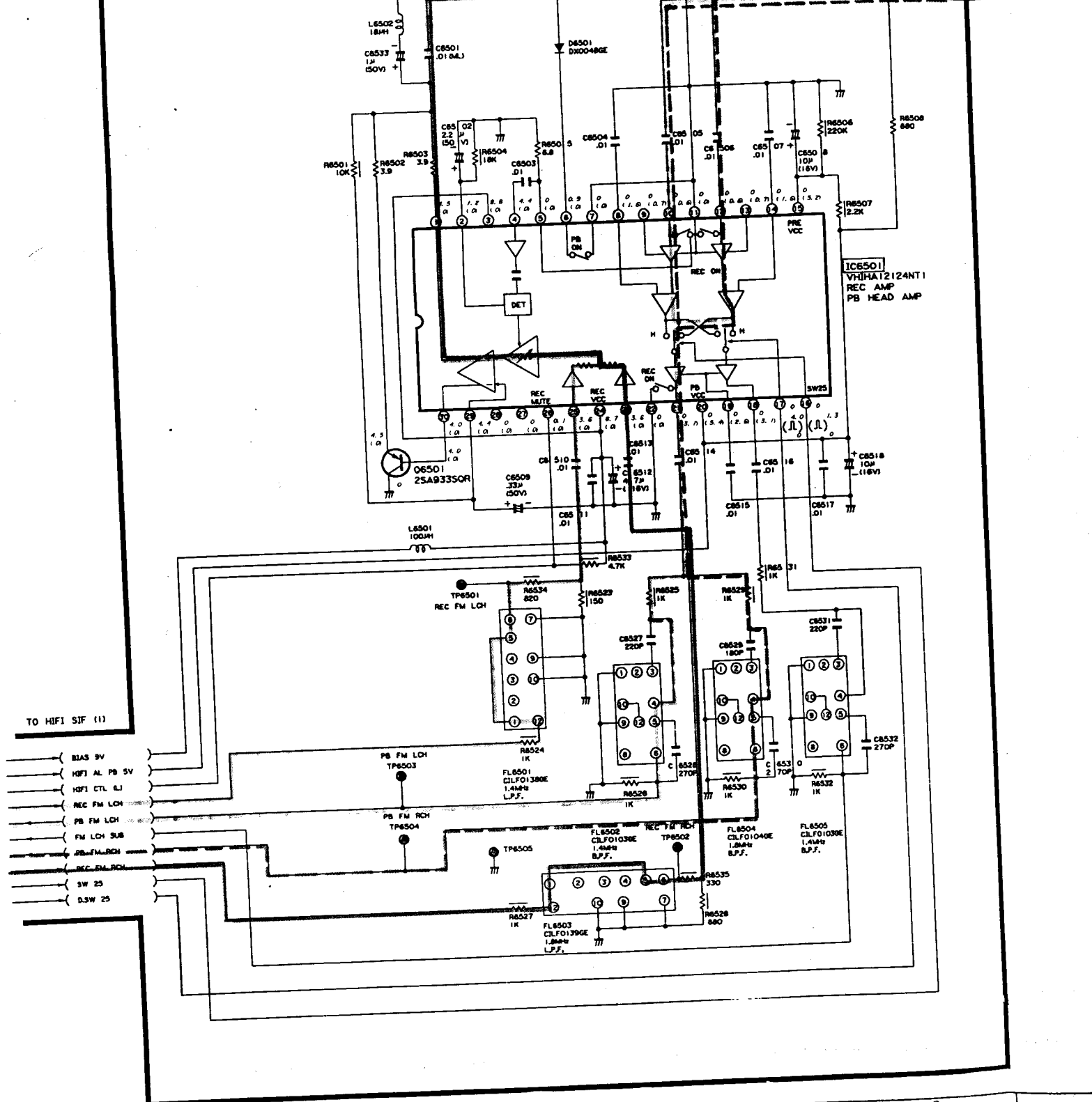
- BIAS 0V
- HFI AL PB SV
- HFI CTL LJ
- REC FM LCH
- PB FM LCH
- FM LCH SLB
- REC FM LCH
- SW25
- D.SW25
- TO HFI 15FD

6 7 8 9 10 11

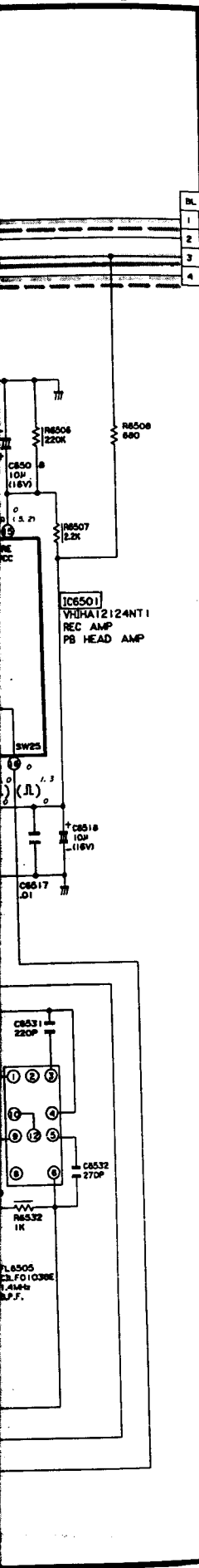


OPL604780EZZ

BL	HIFI HEAD		
1	HFI HEAD1-AJ	→	ZB4
2	GN	→	ZB3
3	HFI HEAD1.2B	→	ZB2
4	HFI HEAD2-AJ	→	ZB1



GE MEASUREMENT MODE  
Parentheses ( )  
Without Parentheses

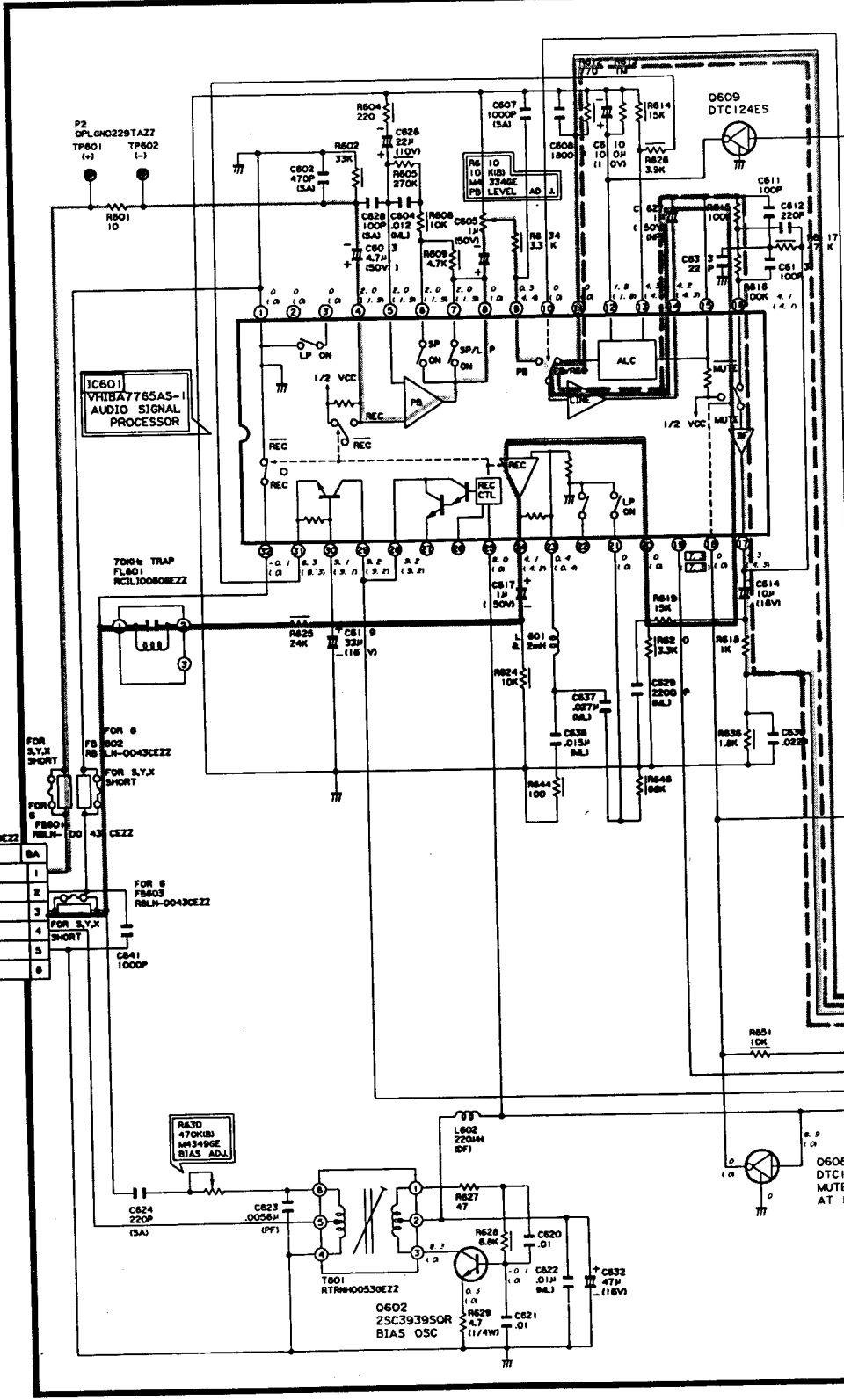


DPL6N04780EZZ

BL	HFI HEAD	
1	HFI HEAD1-A1	ZB4
2	QND	ZB3
3	HFI HEAD1.2B1	ZB2
4	HFI HEAD2-A1	ZB1

DPL6N0780EZZ

MH	TO A/C HEAD	BA
2	AUDIO HEAD (PB)	1
CUT	A-BND (SIGNAL)	2
1	AUDIO HEAD (REC)	3
3	A-E-HEAD	4
8	A-BND (FRASD)	5
NC		6

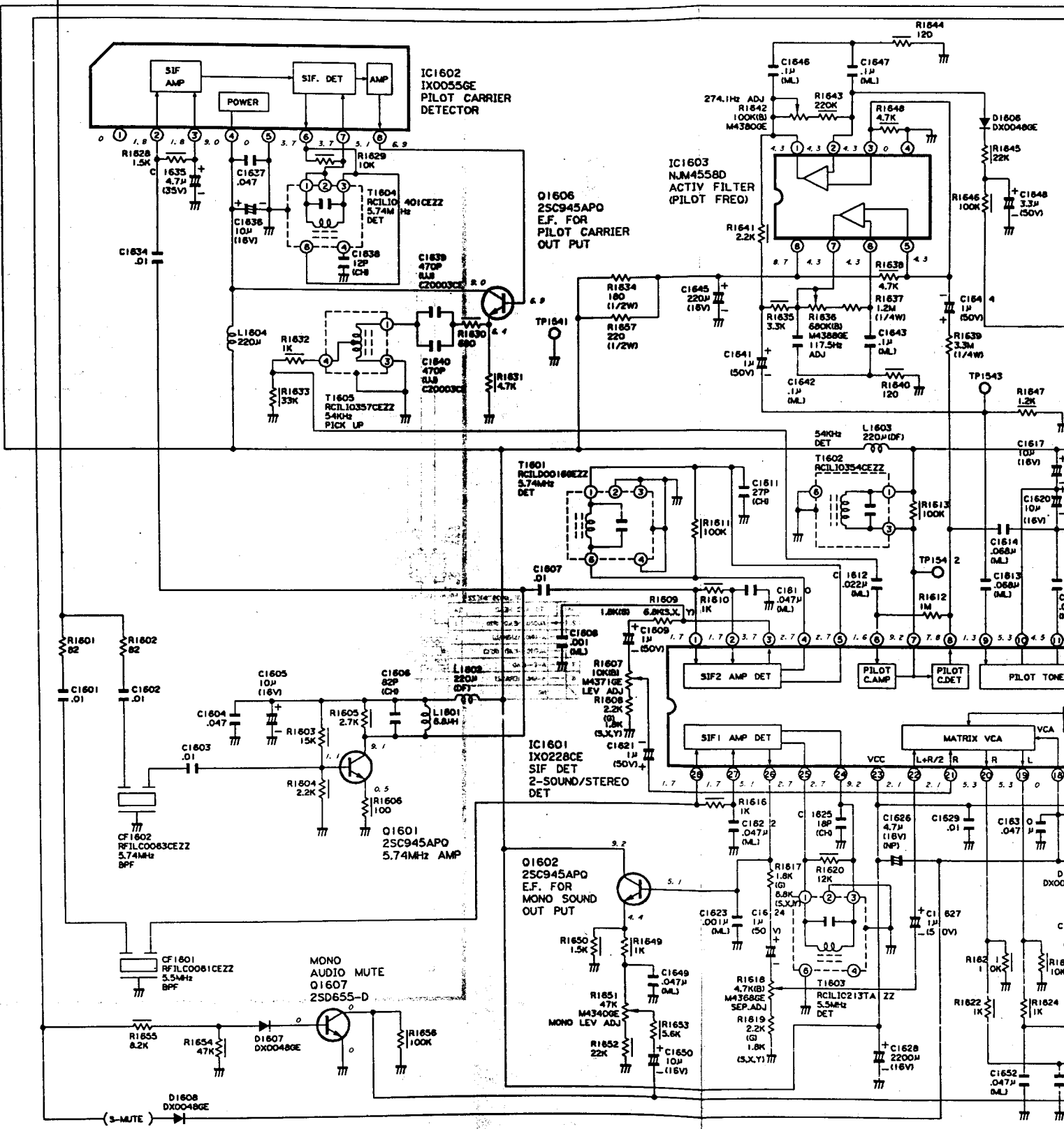


• SPANNUNGSMES  
WIEDERGABE .....  
AUFNAHME .....

(4)  
KREIS (4)

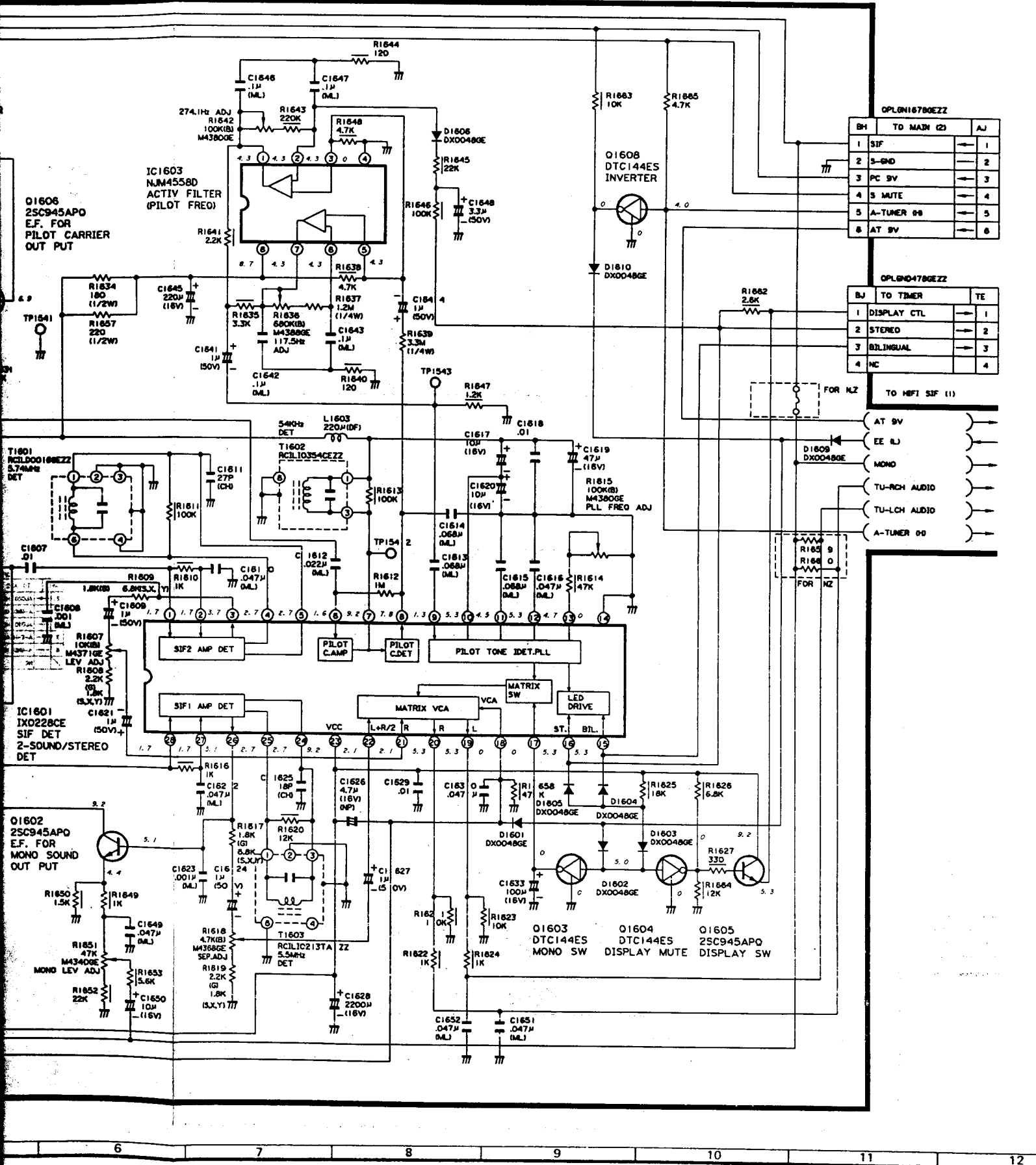
VC-H865G(BK)  
VC-H865S(BK)

VC-H865G(BK)  
VC-H865S(BK)

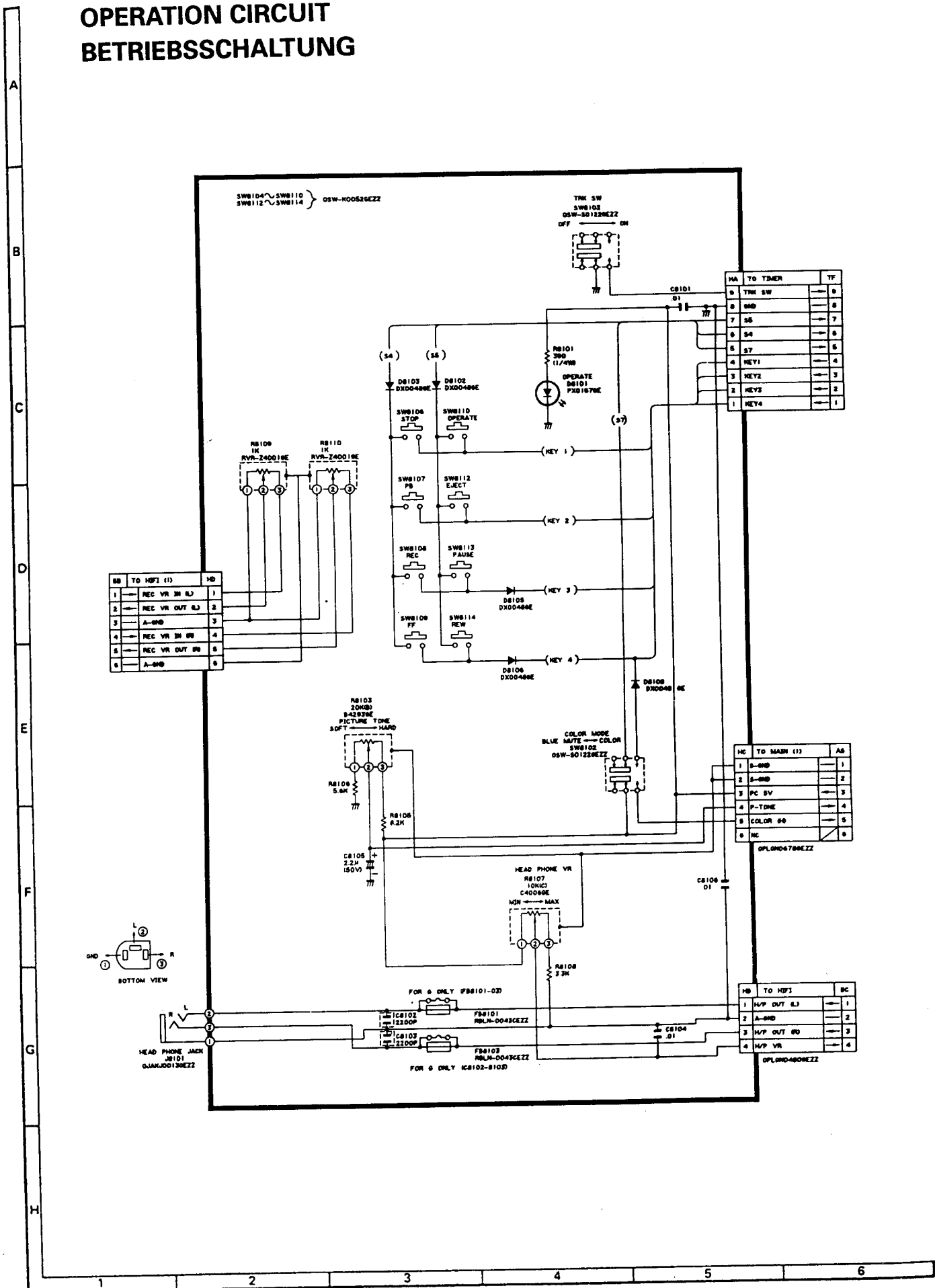


VC-H865G(BK)  
VC-H865S(BK)

VC-H865G(BK)  
VC-H865S(BK)



# OPERATION CIRCUIT BETRIEBSSCHALTUNG

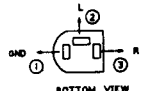


BB	TO HP1 (1)	HD
1	REC VR IN RJ	1
2	REC VR OUT RJ	2
3	A-AND	3
4	REC VR IN BR	4
5	REC VR OUT BR	5
6	A-AND	6

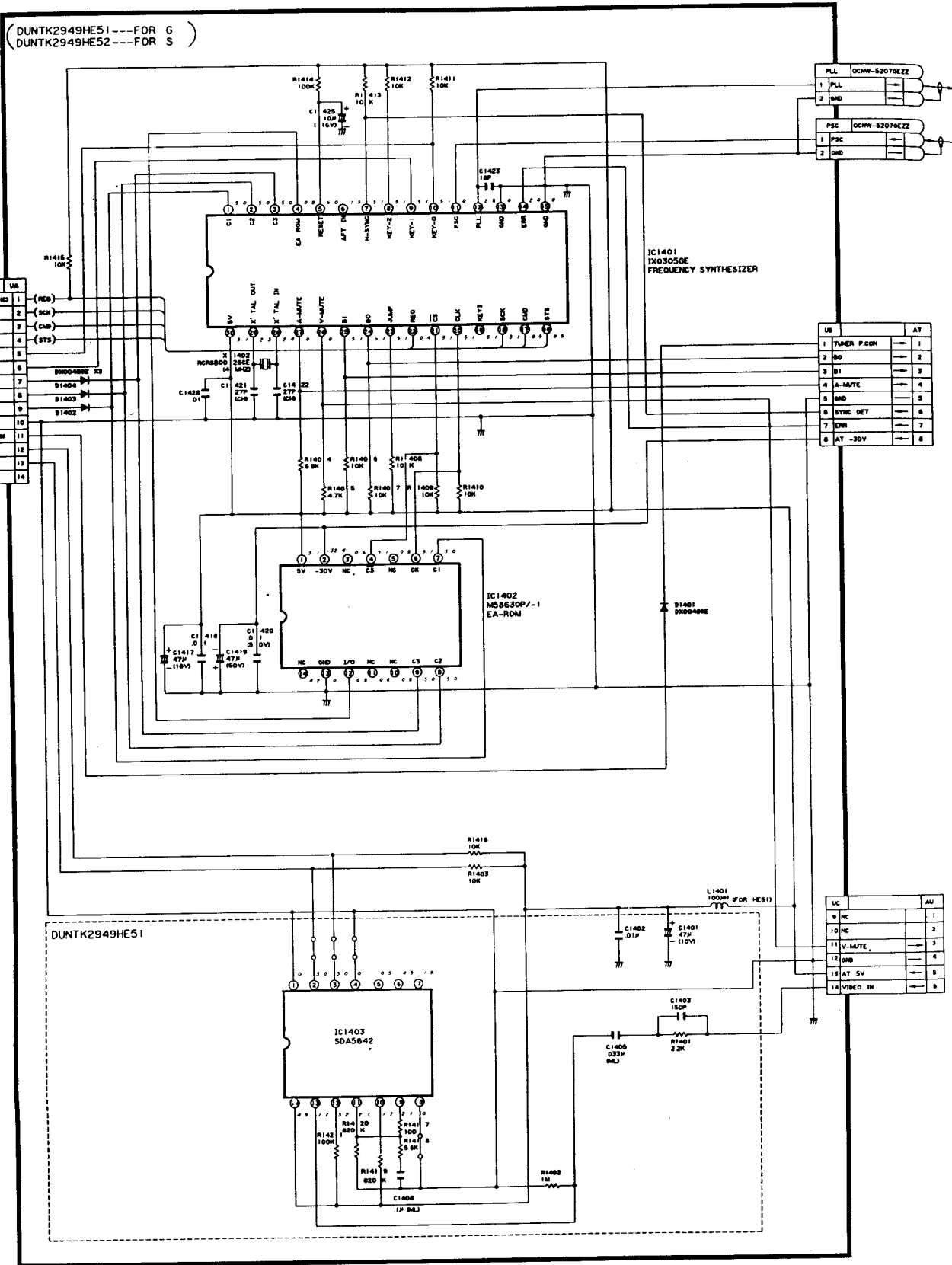
HA	TO TIMER	TF
1	TRK SW	1
2	AND	2
3	S4	3
4	S7	4
5	KEY1	5
6	KEY2	6
7	KEY3	7
8	KEY4	8

HC	TO MAIN (1)	AB
1	S-AND	1
2	S-AND	2
3	PC SV	3
4	P-TONE	4
5	COLOR SO	5
6	HC	6

HB	TO HP1	BC
1	H/P OUT RJ	1
2	A-AND	2
3	H/P OUT BR	3
4	H/P VR	4

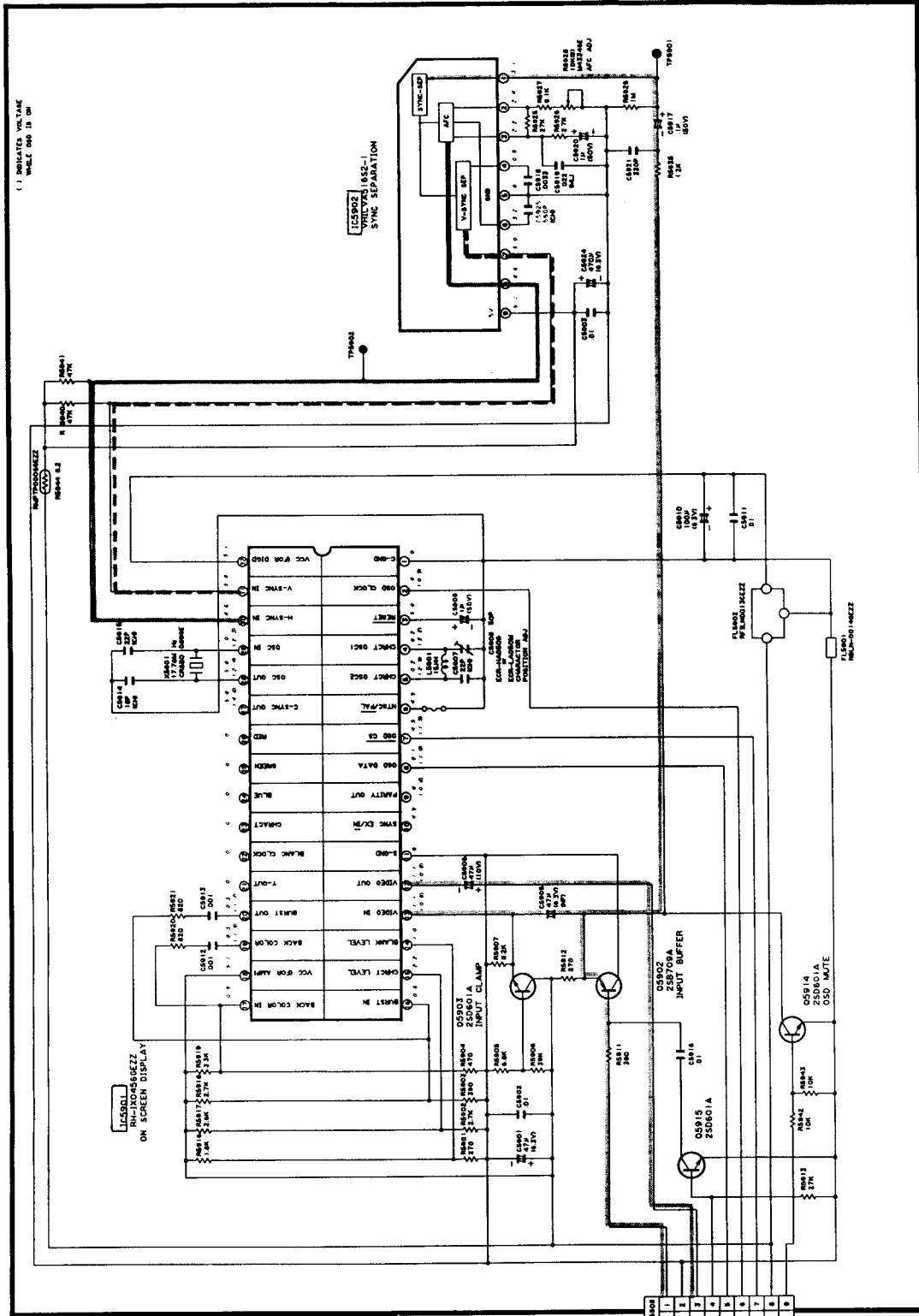


# VPS-CIRCUIT VIDEOPROGRAMMSYSTEMSCHLTUNG



# ON-SCREEN DISPLAY CIRCUIT OSD (BILDSCHIRMANZEIGE) - SCHALTKREIS

E-E Signal  
E-E-SIGNAL  
H-Sync Signal  
H-SYNC-SIGNAL  
V-Sync Signal  
V-SYNC-SIGNAL



( ) INDICATES VOLTAGE  
MEASUREMENT MODE

OS902  
250001A  
INPUT BUFFER

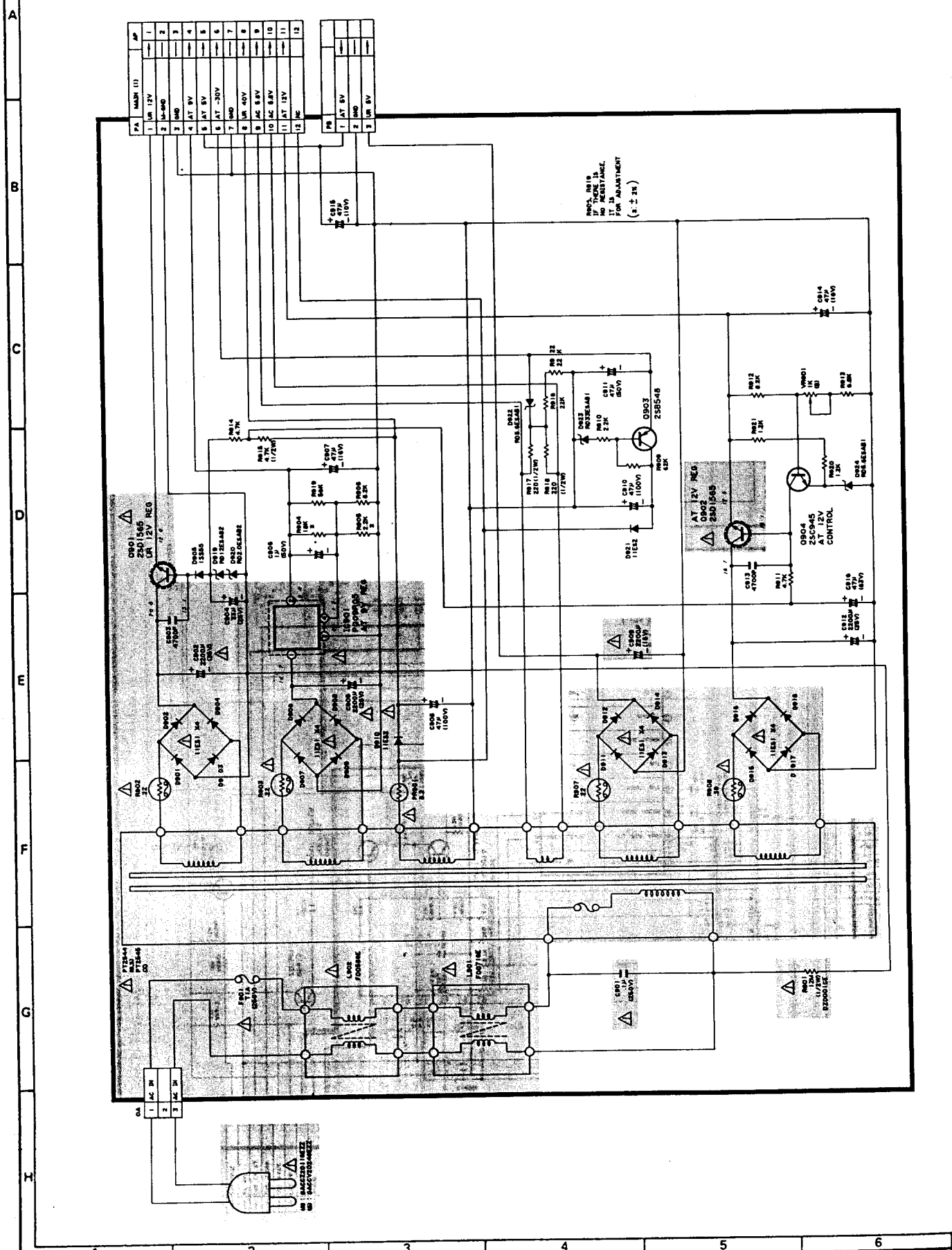
OS915  
250001A

OS903  
250001A  
INPUT CLAMP

TO MAIN ID	FROM
V-Sync IN	1
H-Sync IN	2
VCC FOR OSD	3
OSD DATA	4
OSD MATE	5
OSD CLAMP	6
OSD CA IN	7
OSD MATE	8

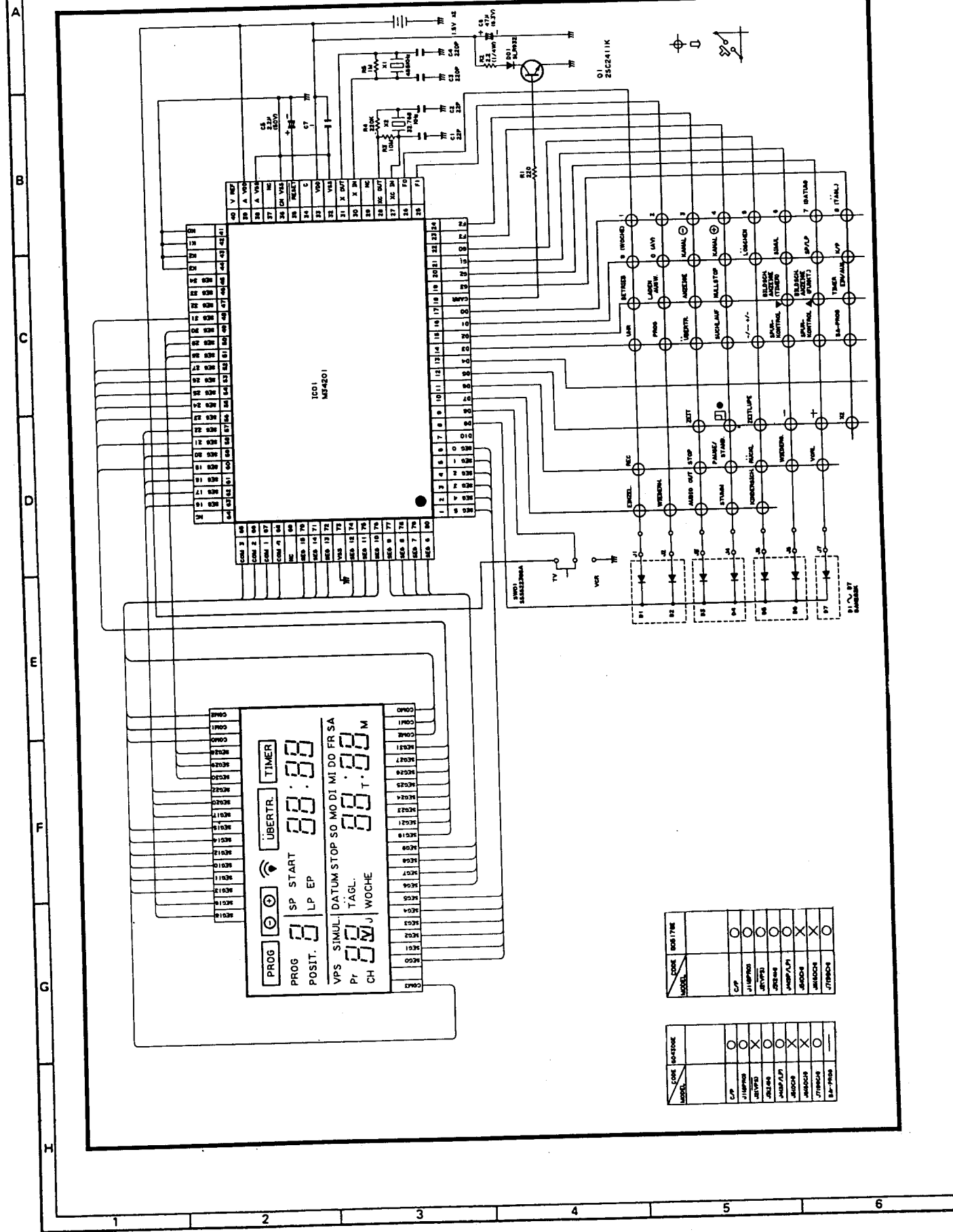
A  
B  
C  
D  
E  
F  
G  
H

# POWER CIRCUIT HAUPTSTROMKREISSCHALTUNG





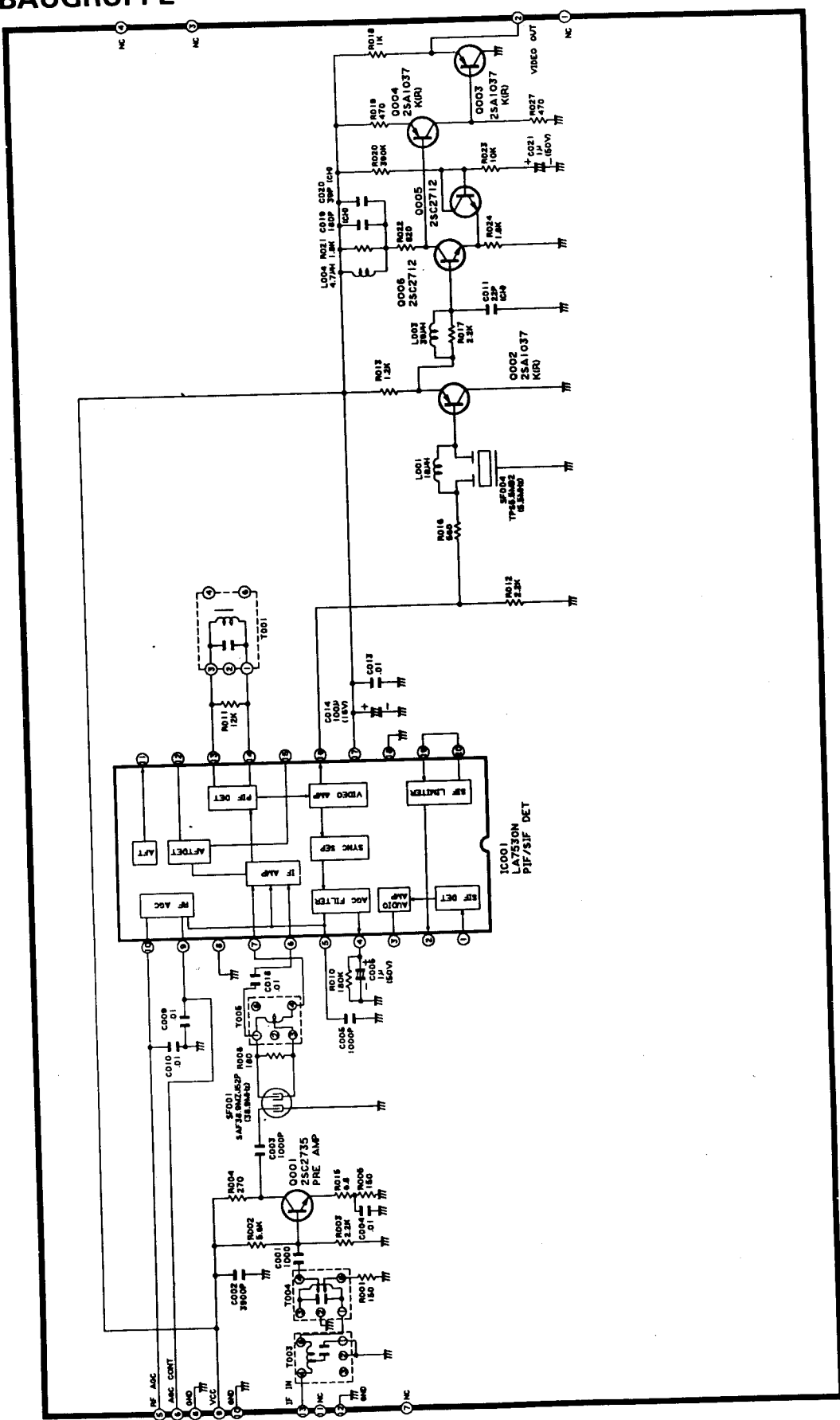
# INFRARED REMOTE CONTROL CIRCUIT INFRAROTFERNBEDIENUNGSKREIS



CODE	MOD. TYPE
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100	28C2411K

CODE	MOD. TYPE
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100	28C2411K

# IF PACK ZF-BAUGRUPPE



PRINT  
PLATI

A  
B  
C  
D  
E  
F  
G  
H

A  
B  
C  
D  
E  
F  
G  
H

1 2 3 4 5 6

