

JVC

SCHEMATIC DIAGRAMS

COLOR TELEVISION

AV-32S565 /Y,
AV-32S575 /Y,
AV-32S585 /Y

CD-ROM No.SML200406

BASIC CHASSIS

SC2



[AV-32S565]

[AV-32S575]
[AV-32S585]

I'Art PRO
D.I.S.T.
Digital Image Scaling Technology
HIGH DEFINITION TELEVISION
HDTV
MONITOR
BBE
HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

AV-32S565/Y, AV-32S575/Y, AV-32S585/Y

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20kΩ/V
- (4)Oscilloscope sweeping time : H ⇒ 20μs / div
: V ⇒ 5ms / div
: Others ⇒ Sweeping time is specified
- (5)Voltage values : All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

- No unit : [Ω]
- K : [kΩ]
- M : [MΩ]

● Rated allowable power

- No indication : 1/16 [W]
- Others : As specified

● Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflammable resistor
- FR : Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

- 1 or higher : [pF]
- less than 1 : [μF]

● Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage [V]
- AC indicated : AC withstand voltage [V]

* Electrolytic Capacitors

47/50[Example]: Capacitance value [μF]/withstand voltage[V]

● Type

- No indication : Ceramic capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

(3)Coils

- No unit : [μH]
- Others : As specified

(4)Power Supply

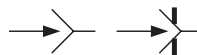
-  : B1
-  : B2 (12V)
-  : 9V
-  : 5V

* Respective voltage values are indicated

(5)Test point

-  : Test point
-  : Only test point display

(6)Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

(7)Ground symbol

-  : LIVE side ground
-  : ISOLATED(NEUTRAL) side ground
-  : EARTH ground
-  : DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE

- ◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list. When ordering parts, please use the numbers that appear in the Parts List.

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USING P.W. BOARD

PWB ASS'Y name	AV-32S565/Y	AV-32S575/Y	AV-32S585/Y
MAIN P.W. BOARD	SSC-1005A-M2	SSC-1004A-M2	SSC-1003A-M2
RECEIVER P.W. BOARD	SSC0R003A-M2	SSC0R002A-M2	←
CRT SOCKET P.W. BOARD	SSC-3003A-M2	←	←
POWER&DEF P.W. BOARD	SSC-2003A-M2	←	←
DEF OSC P.W. BOARD	SSC0H003A-M2	←	←
LINE FILTER P.W. BOARD	SSC-9003A-M2	←	←
FRONT CONTROL P.W. BOARD	SSC0L003A-M2	←	←
FRONT SW P.W. BOARD	SSC0L104A-M2	←	←

SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR

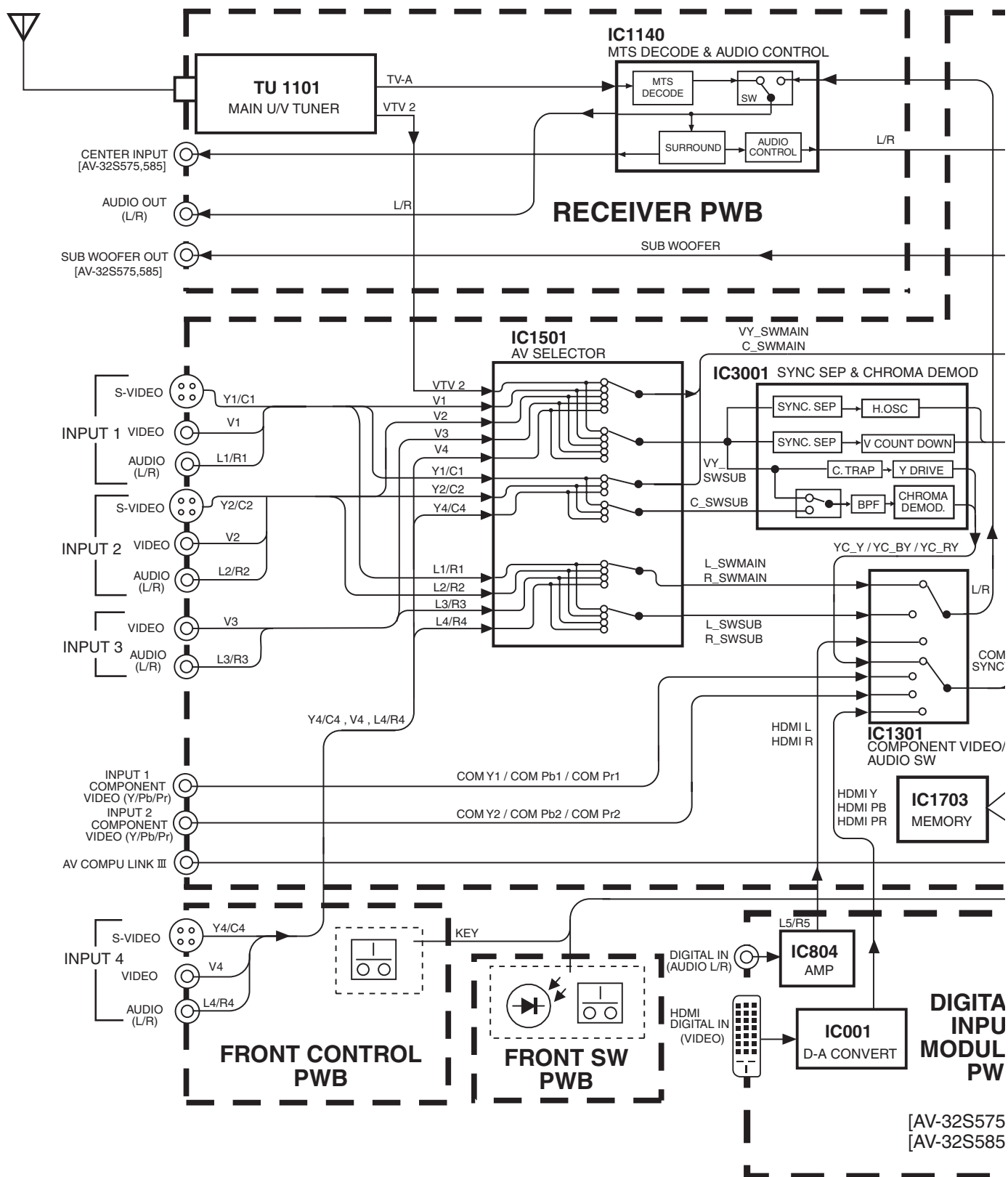
IC

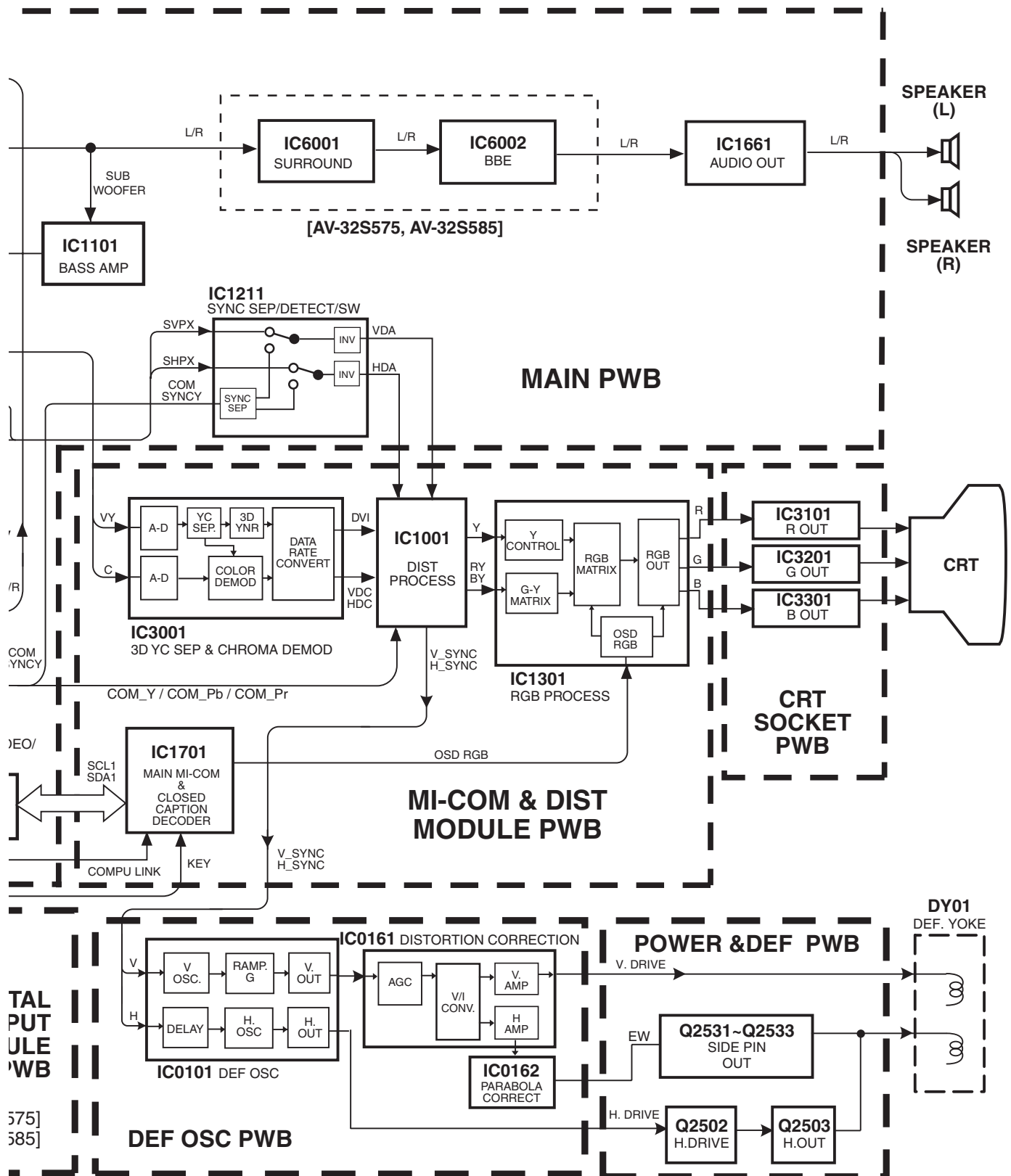
BOTTOM VIEW	FRONT VIEW			TOP VIEW

CHIP IC

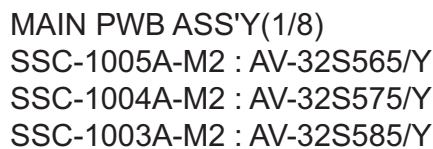
TOP VIEW		

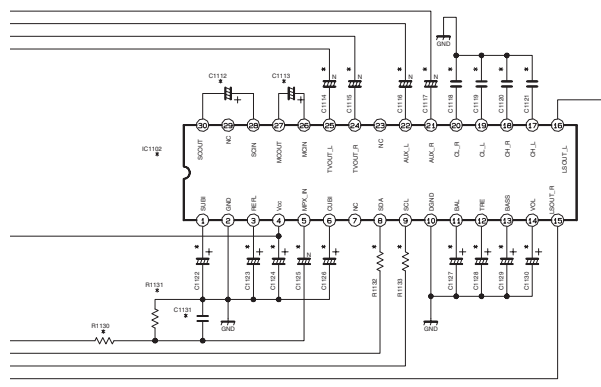
BLOCK DIAGRAM





MAIN PWB CIRCUIT DIAGRAM (1/8) SHEET1

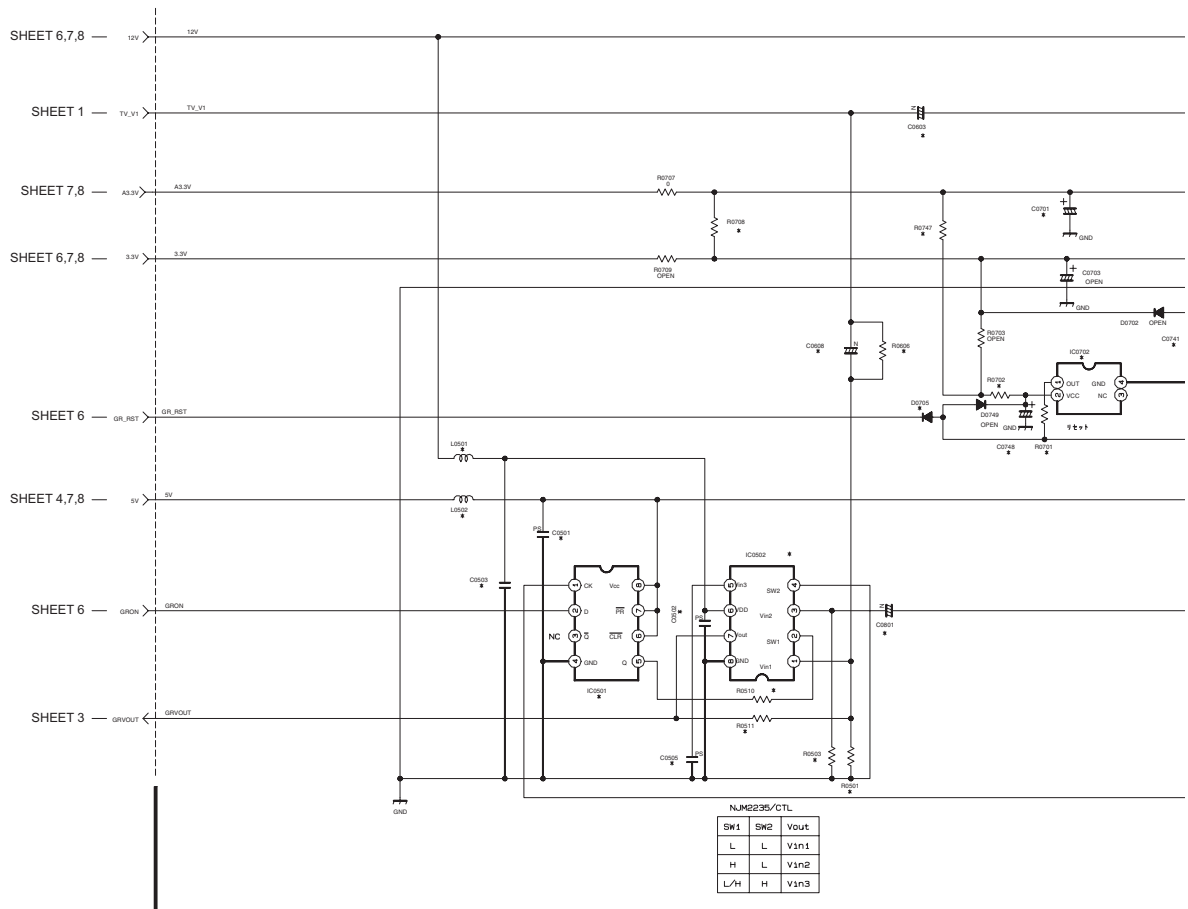




DIFFERENCE LIST 2				
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RI1103	OPEN	OPEN	OPEN	
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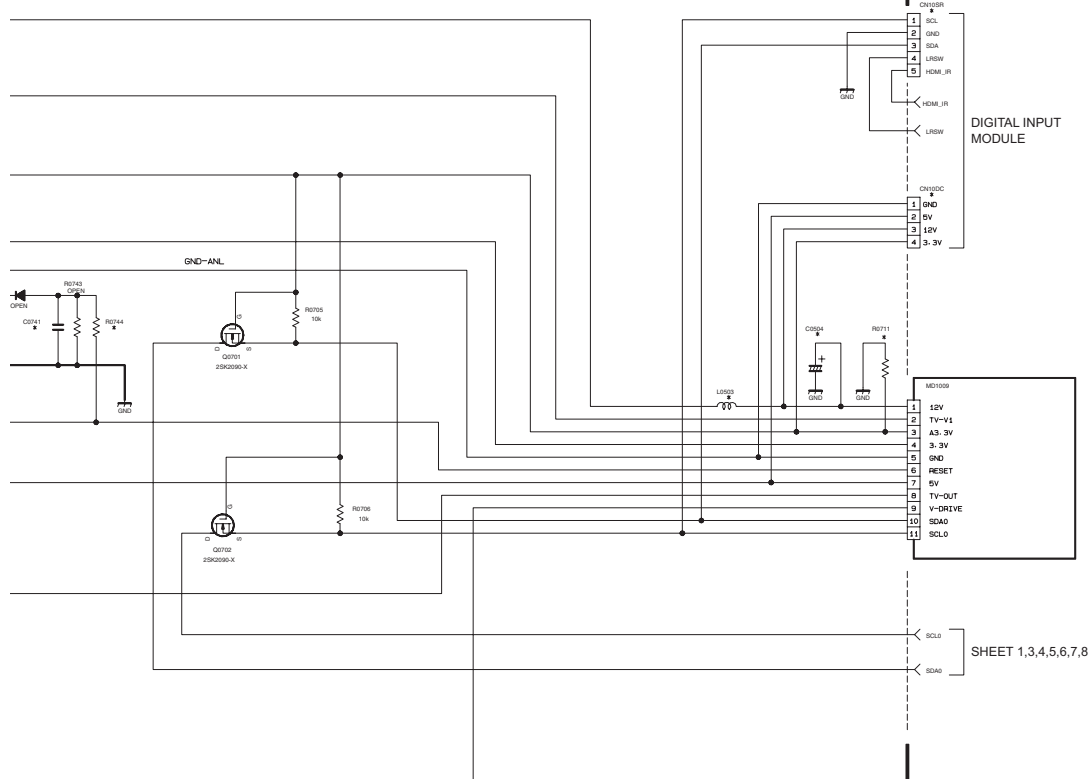
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R0608	0	0	0
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R0744	OPEN	OPEN	OPEN
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C0301	OPEN	OPEN	OPEN



* DIFFERENCE LIST 2

	AV-325 555YA	AV-325 575YA	AV-325 555YA
OLLC05429	OLLC05429	OLLC05429	OLLC05429
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L0502	NRS42LJ-050X	NRS42LJ-050X	OPEN
IC0501	OPEN	OPEN	OPEN
IC0502	OPEN	OPEN	OPEN
D0705	OPEN	OPEN	OPEN
IC0702	OPEN	OPEN	OPEN
C0503	OPEN	OPEN	OPEN
CN105R	QJRB03-QJRB03	QJRB03-QJRB03	OPEN
CN105C	QSA551C3-Q42	QSA551C3-Q42	OPEN
L0503	NRS42LJ-050X	NRS42LJ-050X	OPEN
C0504	OPEN	OPEN	OPEN

MODE PIN NO.	DC (V)
Q0701	
S	2.7
D	4.2
G	3.3
Q0702	
S	2.8
D	4.3
G	3.2



M2 : AV-32S585/Y



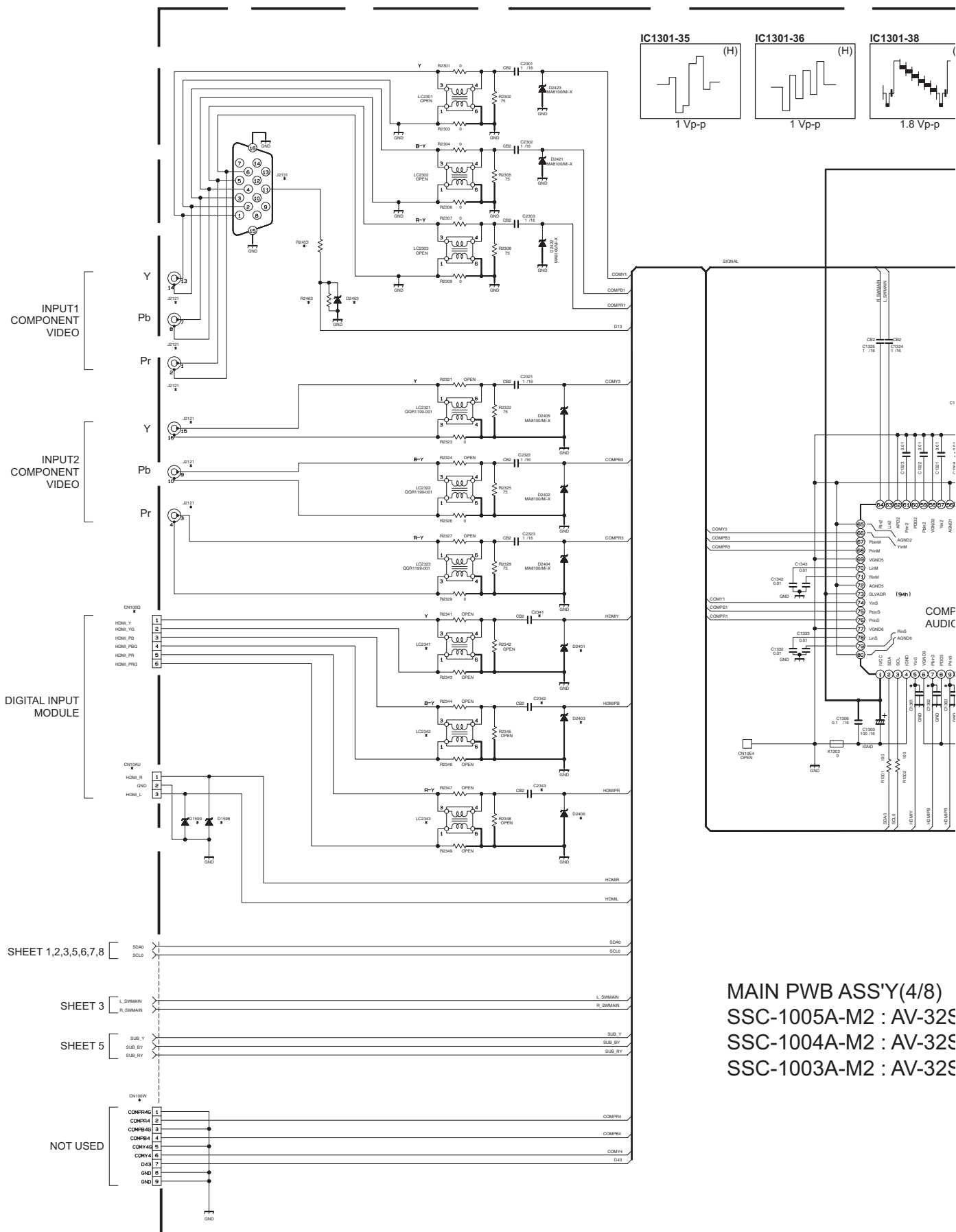
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D1083	MA0002 MR-X	OPEN	OPEN
R1007	1K	OPEN	OPEN
R1516	OPEN	OPEN	OPEN
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R1518	OPEN	OPEN	OPEN
R1519	OPEN	OPEN	OPEN
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C1403	0.01	0.01	0.01
C1404	0.01	0.01	0.01



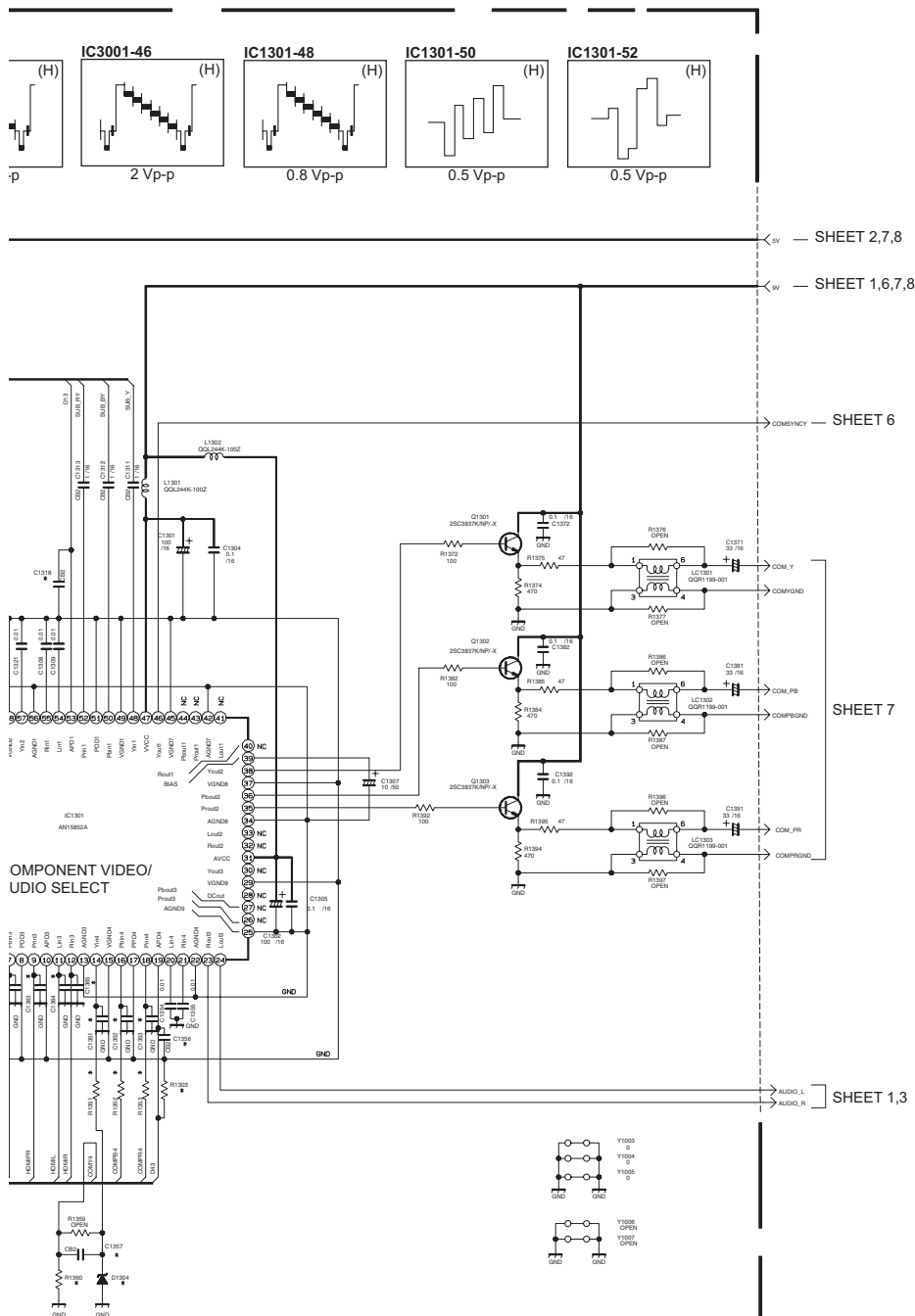
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R6529				

SHEET 7

MAIN PWB CIRCUIT DIAGRAM (4/8) SHEET 4



MAIN PWB ASS'Y(4/8)
 SSC-1005A-M2 : AV-32S
 SSC-1004A-M2 : AV-32S
 SSC-1003A-M2 : AV-32S

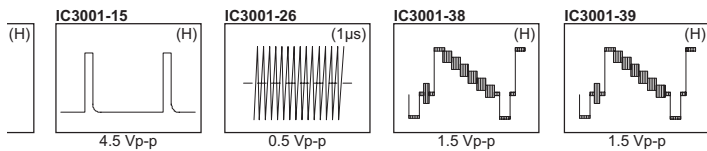
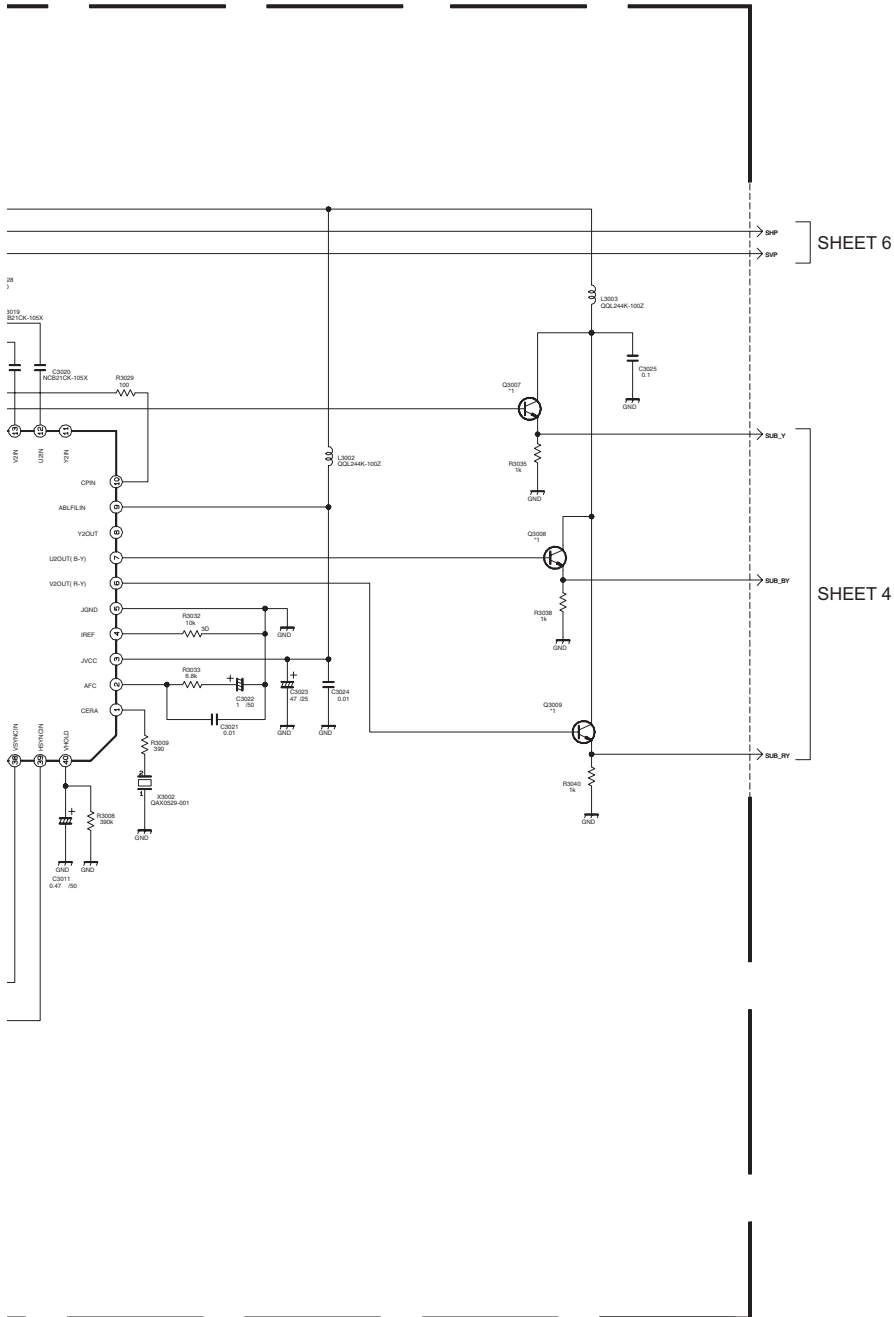


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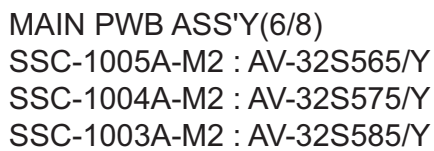
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1) 2S565/Y
 2) 2S575/Y
 3) 2S585/Y

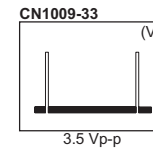
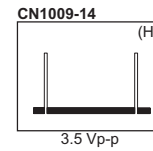
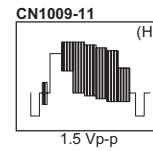
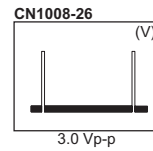
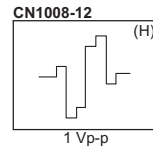
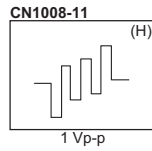
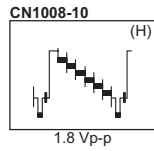
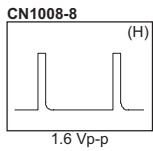
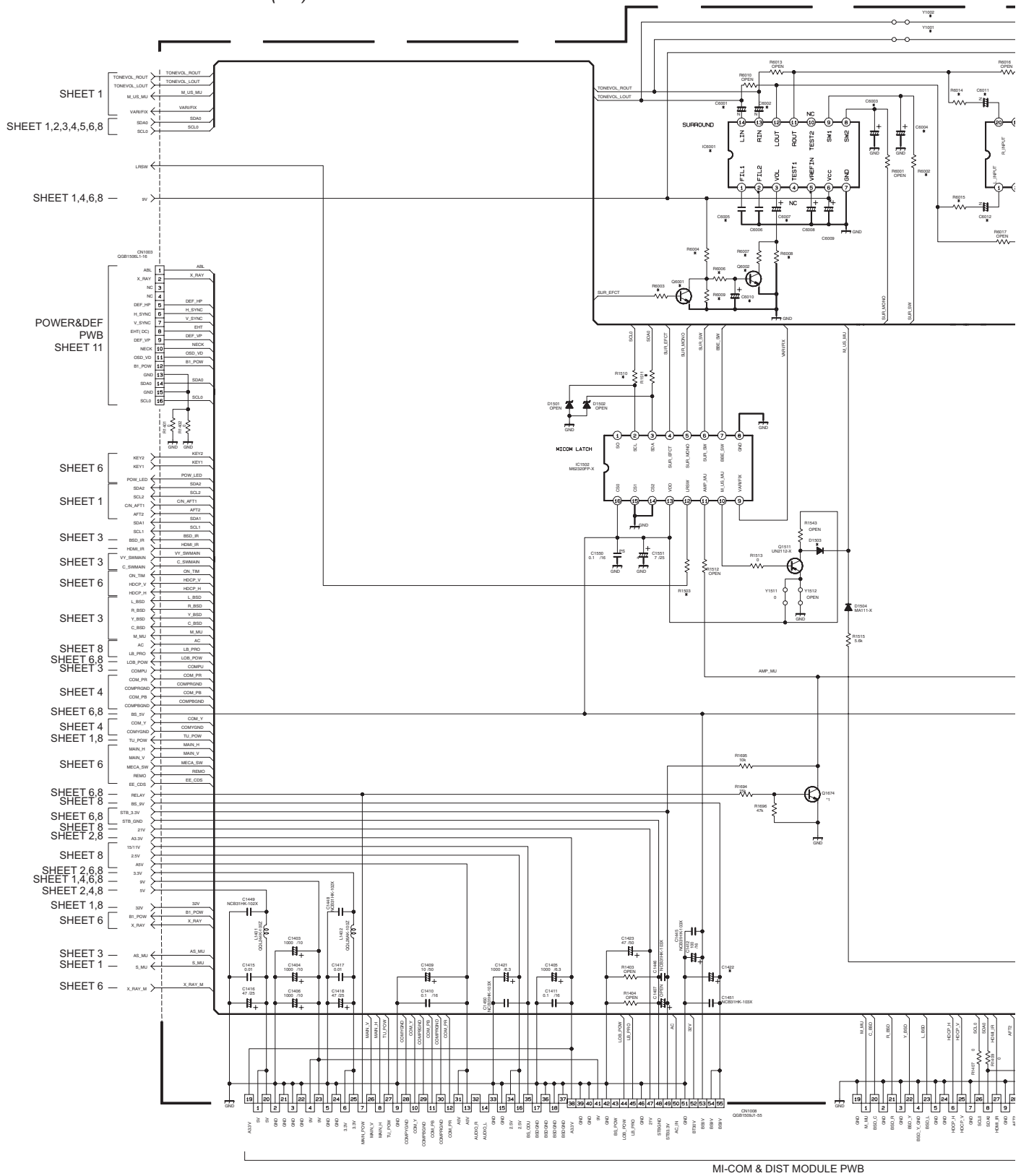
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7	4.6
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9	0
10	0
11	4.4
12	4.4
13	0
14	4.6
15	0
16	4.6
17	0
18	4.6
19	0
20	4.4
21	4.4
22	0
23	4.4
24	4.4
25	0
26	0
27	4.4
28	0
29	0
30	4.4
31	8.9
32	4.4
33	4.5
34	0
35	4.4
36	4.4
37	0
38	4.4
39	4.4
40	4.4
41	4.5
42	4.5
43	0
44	4.5
45	0
46	4.5
47	8.9
48	4.7
49	0
50	4.6
51	0
52	4.6
53	0
54	4.4
55	4.4
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57	4.6
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74	4.6
75	4.6
76	4.6
77	0
78	4.4
79	4.4
80	0
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E	3.7
C	8.9
B	4.4
Q1302	
E	3.6
C	8.9
B	4.2
Q1303	
E	3.6
C	8.9
B	4.4

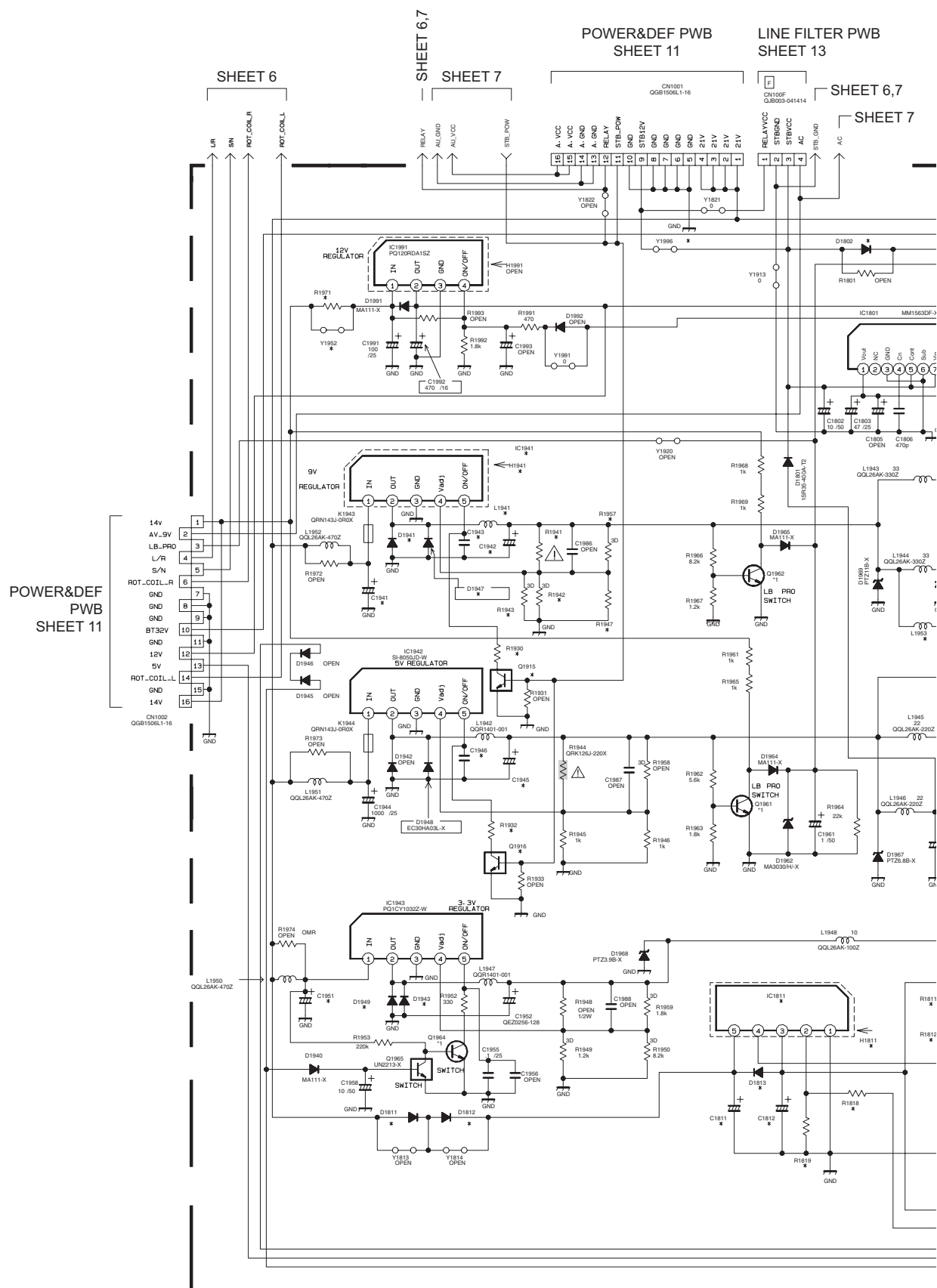


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4	1.6
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8	2.6
9	8.9
10	1
11	1
12	4.2
13	4.3
14	0.3
15	0.4
16	1
17	0
18	3.2
19	3
20	NC
21	NC
22	NC
23	NC
24	4.6
25	8.9
26	3.1
27	NC
28	NC
29	3.4
30	2.1
31	0
32	0
33	4.1
34	4.2
35	0
36	4.4
37	4.2
38	3.4
39	2.6
40	0.7
Q3001	
E	2.6
C	8.9
B	3.2
Q3002	
E	0
C	8.9
B	2.8
Q3003	
E	1.6
C	8.9
B	2.2
Q3005	
E	2.3
C	0
B	1.7
Q3007	
E	2.5
C	8.9
B	3.2
Q3008	
E	2.3
C	8.9
B	3.1
Q3009	
E	2.3
C	8.9
B	3.1



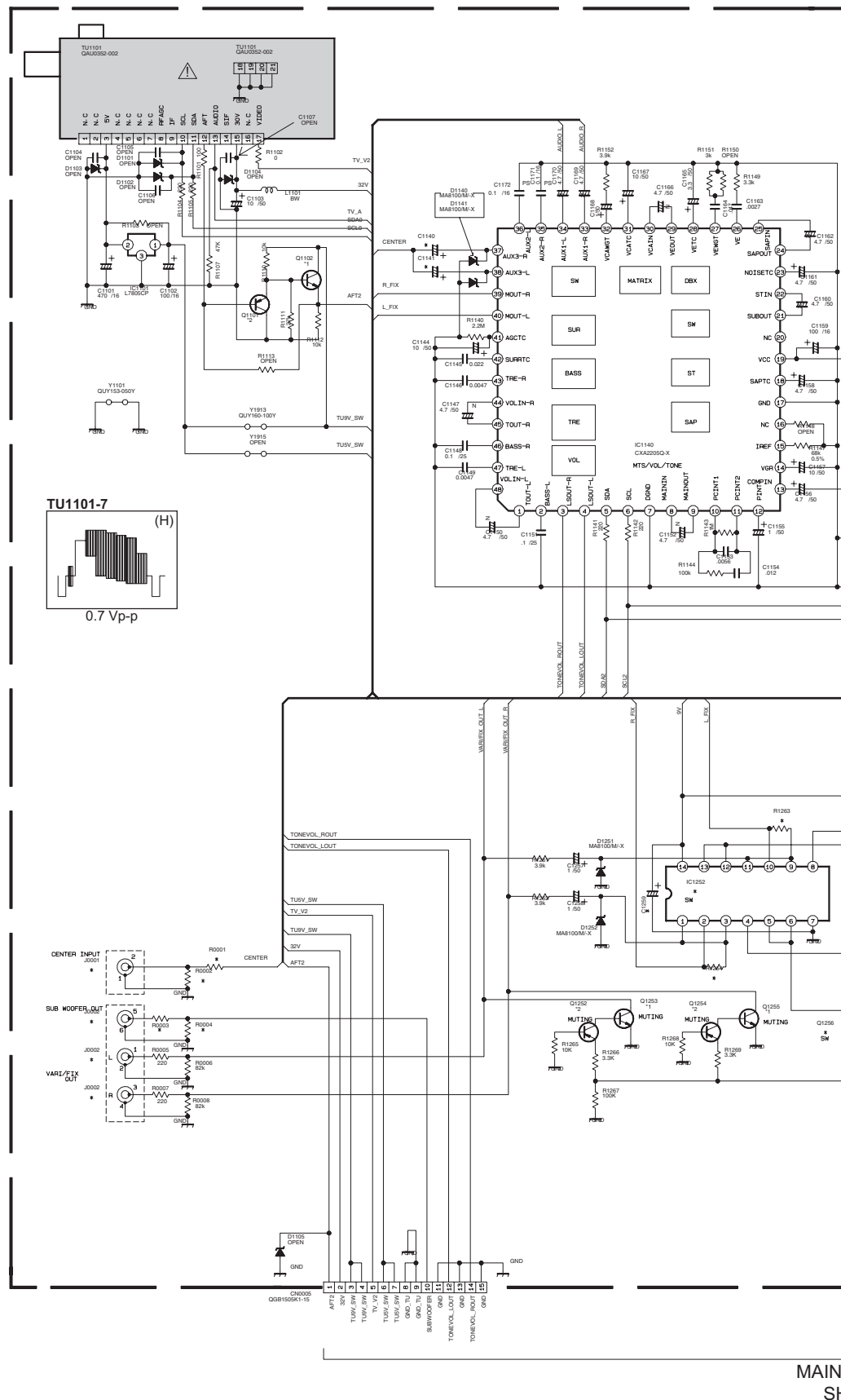
MAIN PWB CIRCUIT DIAGRAM (7/8) SHEET 7



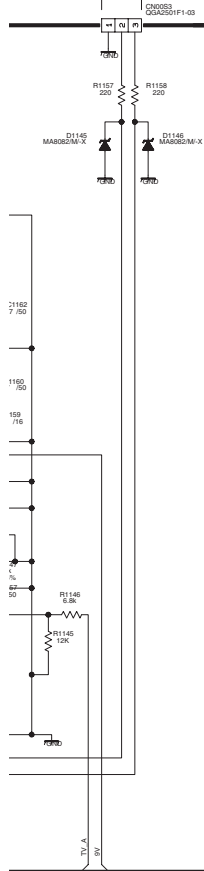


MODE PIN NO.	DC (V)
IC1511	
1	5.1
2	3.3
3	0
4	5.1
IC1801	
1	3.2
2	0
3	0
4	1.9
5	4.9
6	0
7	4.9
IC1941	
1	20.3
2	9.1
3	0
4	1.2
5	6.8
IC1942	
1	20.3
2	5.2
3	0
4	4.9
5	2.3
IC1943	
1	20.3
2	3.3
3	0
4	1.2
5	6.8
IC1981	
1	3.3
2	3.3
3	2.6
4	1.2
5	0
IC1991	
1	14.9
2	11.9
3	0
4	2.5
IC1993	
1	5
2	NC
3	0
4	NC
5	8.9
6	0
7	8.9
Q1915	
E	0
C	6.8
B	0
Q1916	
E	0
C	2.3
B	0
Q1961	
E	0
C	0
B	0.6
Q1962	
E	0
C	0
B	0.6
Q1964	
E	0
C	6.7
B	0
Q1965	
E	0
C	0
B	2.7
Q1981	
E	8.9
C	8.9
B	9.7
Q1984	
E	5.1
C	5.1
B	5.9





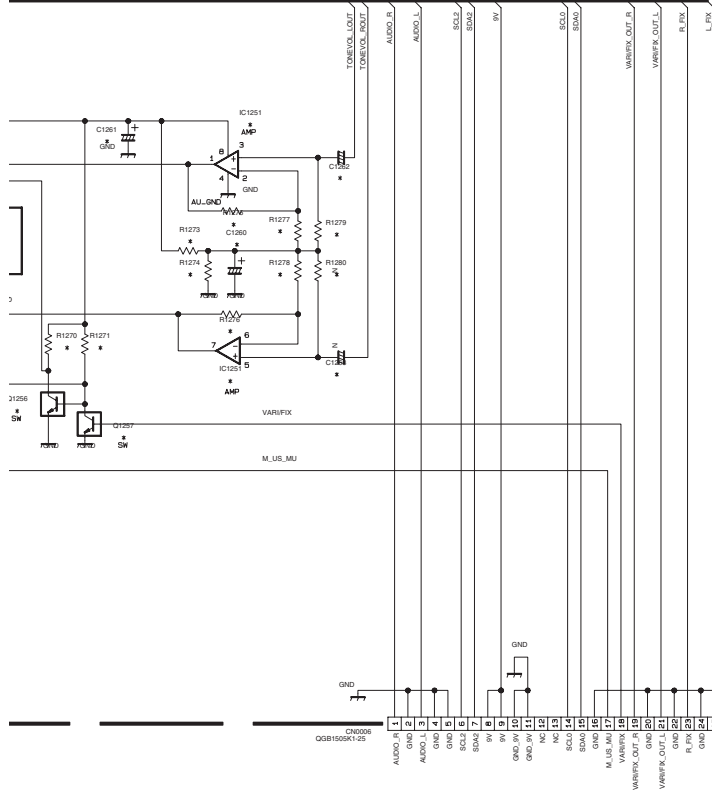
NOT USED



RECEIVER PWB ASS'Y
 SSC0R003A-M2 : AV-32S565/Y
 SSC0R002A-M2 : AV-32S575/Y, AV-32S585/Y

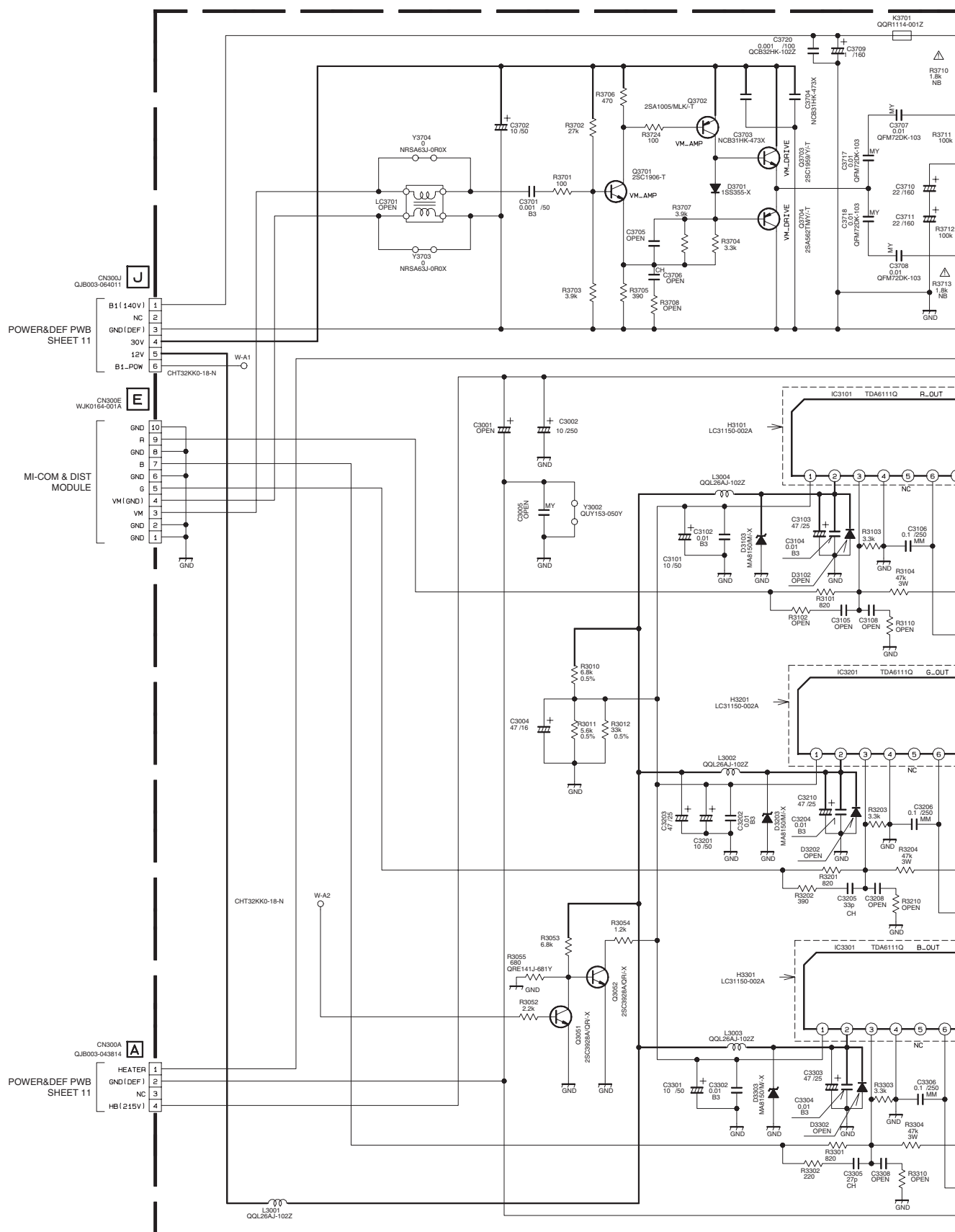
* DIFFERENCE LIST 1

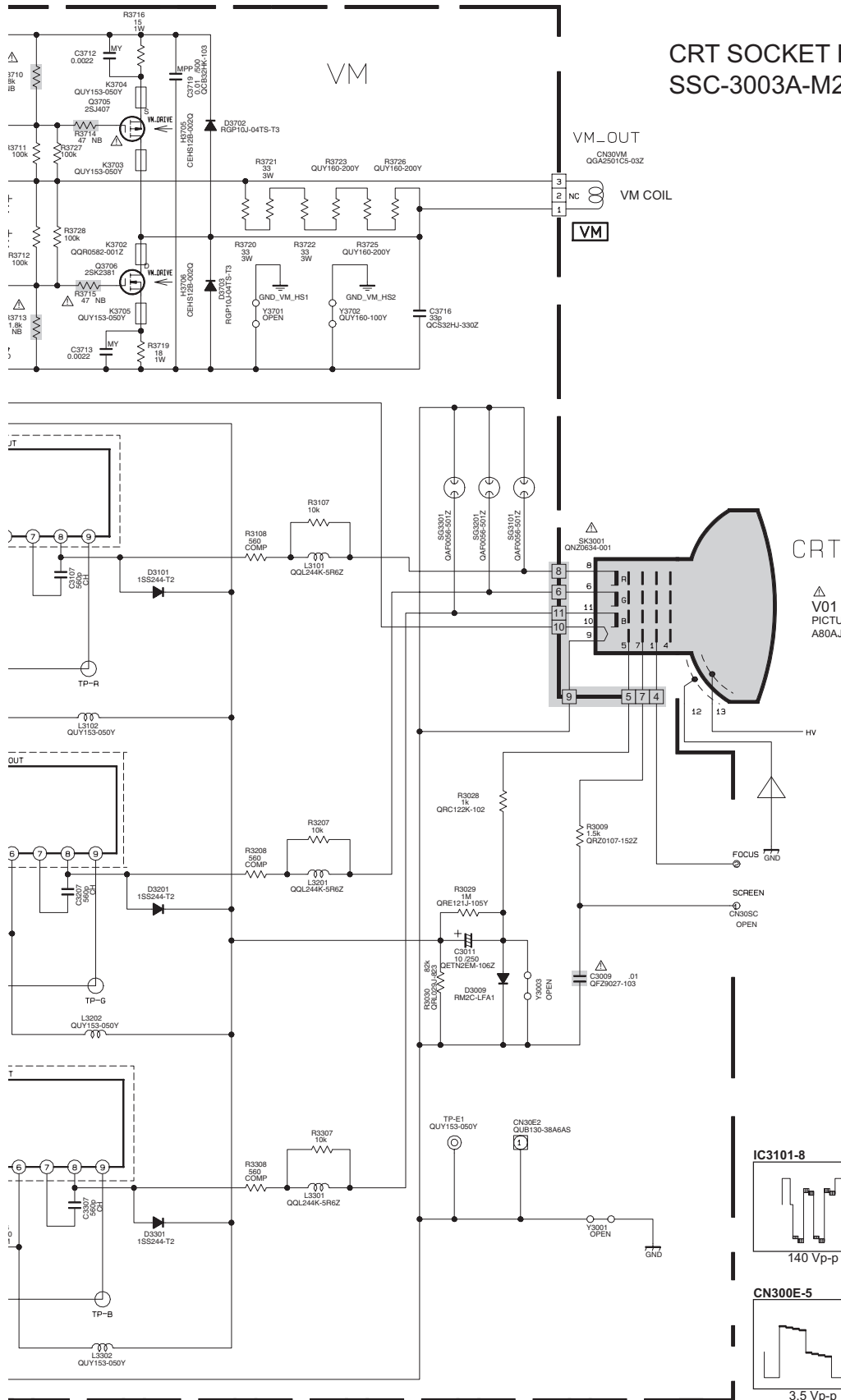
	AV-32S 565YA 575YA	AV-32S 585YA
J0001	0LN0055 -001	0LN0055 -001
J0002	0LN0055 -001	0LN0055 -001
C1140	4.750	OPEN
C1141	4.750	OPEN
R0001	220	OPEN
R0002	85K	OPEN
R0003	220	OPEN
R0004	85K	OPEN
R1005	OPEN	0
R1006	OPEN	0
R1270	25K	OPEN
R1271	10.3K	OPEN
R1272	4.7K	OPEN
R1273	4.7K	OPEN
R1274	15K	OPEN
R1275	15K	OPEN
R1276	15K	OPEN
R1277	12K	OPEN
R1278	12K	OPEN
R1279	10K	OPEN
R1280	10K	OPEN
C1259	4725	OPEN
C1260	1050	OPEN
C1261	4725	OPEN
C1262	4.750	OPEN
C1263	4.750	OPEN
C1264	UN2213X	OPEN
C1265	UN2213X	OPEN
IC1251	IC48055K	OPEN
R1152	CA48055K	OPEN



IN PWB(1/8)
 SHEET 1

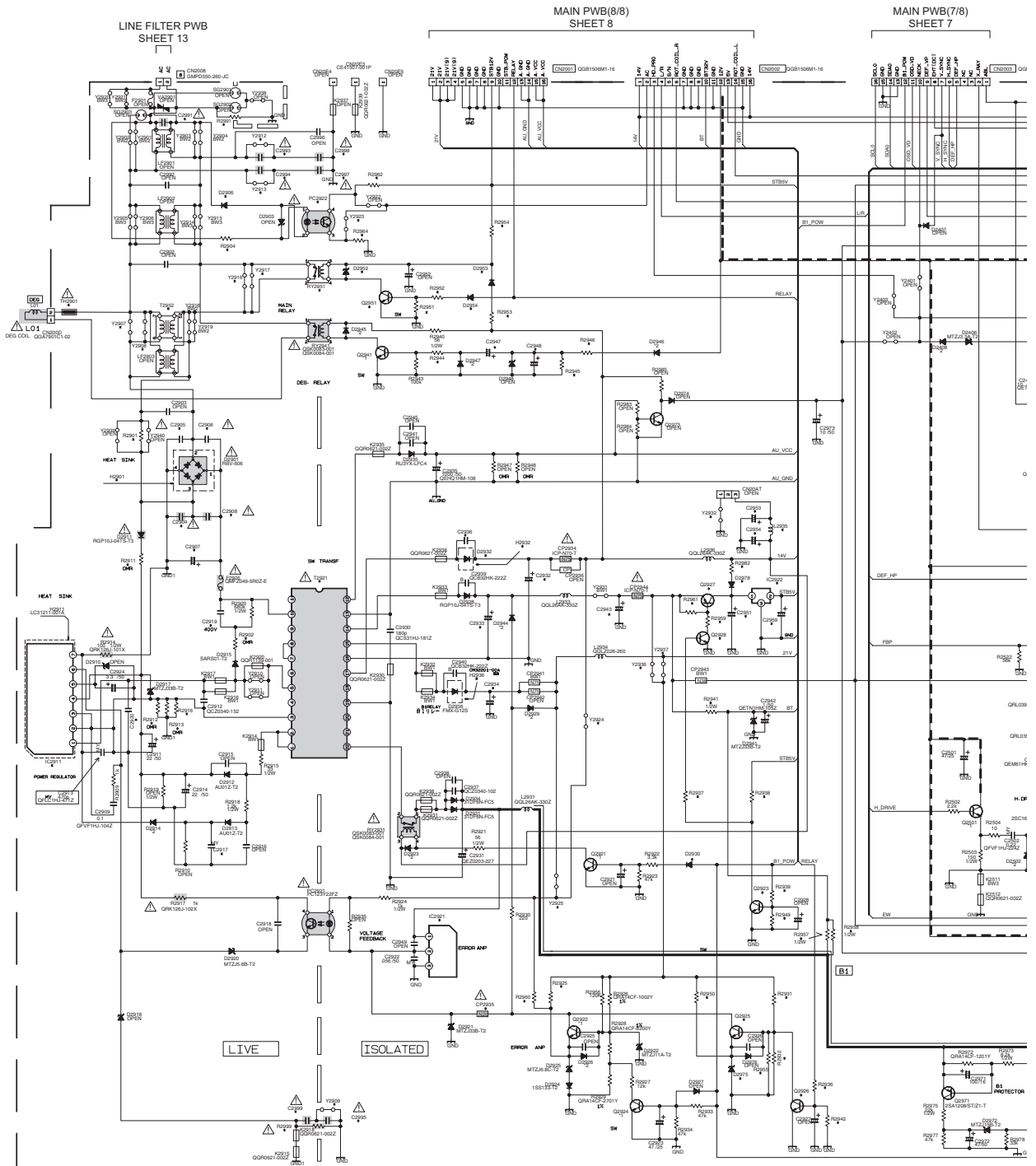
MODE PIN NO.	DC (V)
IC1101	
1	8.9
2	5
3	0
IC1140	
1	4
2	4
3	4.1
4	4
5	4.3
6	4.3
7	0
8	4
9	4
10	4
11	4
12	1.9
13	4
14	1.9
15	1.2
16	NC
17	0
18	1.9
19	8.9
20	NC
21	4
22	4
23	1.9
24	4
25	4
26	4
27	4
28	1.9
29	4
30	4
31	1.9
32	4
33	4
34	4
35	4
36	4
37	4
38	4
39	4
40	4
41	1.1
42	4
43	4
44	4
45	4.1
46	4.1
47	4.1
48	4
IC1251	
1	4.4
2	4.4
3	4.4
4	0
5	4.4
6	4.4
7	4.4
8	8.9
IC1252	
1	4.1
2	4.1
3	4.1
4	4.4
5	0
6	0
7	0
8	4.4
9	4.1
10	4.1
11	4.1
12	8.9
13	8.9
14	8.9
Q1101	
E	3.8
C	0
B	3.2
Q1102	
E	3.2
C	8.9
B	3.2
Q1252	
E	0
C	-0.9
B	0
Q1253	
E	0
C	0
B	-0.9
Q1254	
E	0
C	-1
B	0
Q1255	
E	0
C	0
B	-1
Q1256	
E	0
C	8.8
B	0
Q1257	
E	0
C	0
B	5.1
TU1101	
1	4.1
2	4.1
3	4.1
4	4.4
5	0
6	0
7	0
8	4.4
9	4.1
10	4.1
11	4.1
12	8.9
13	8.9
14	8.9



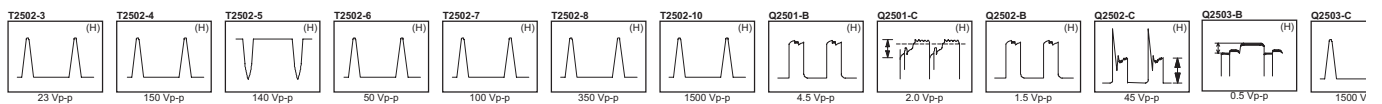


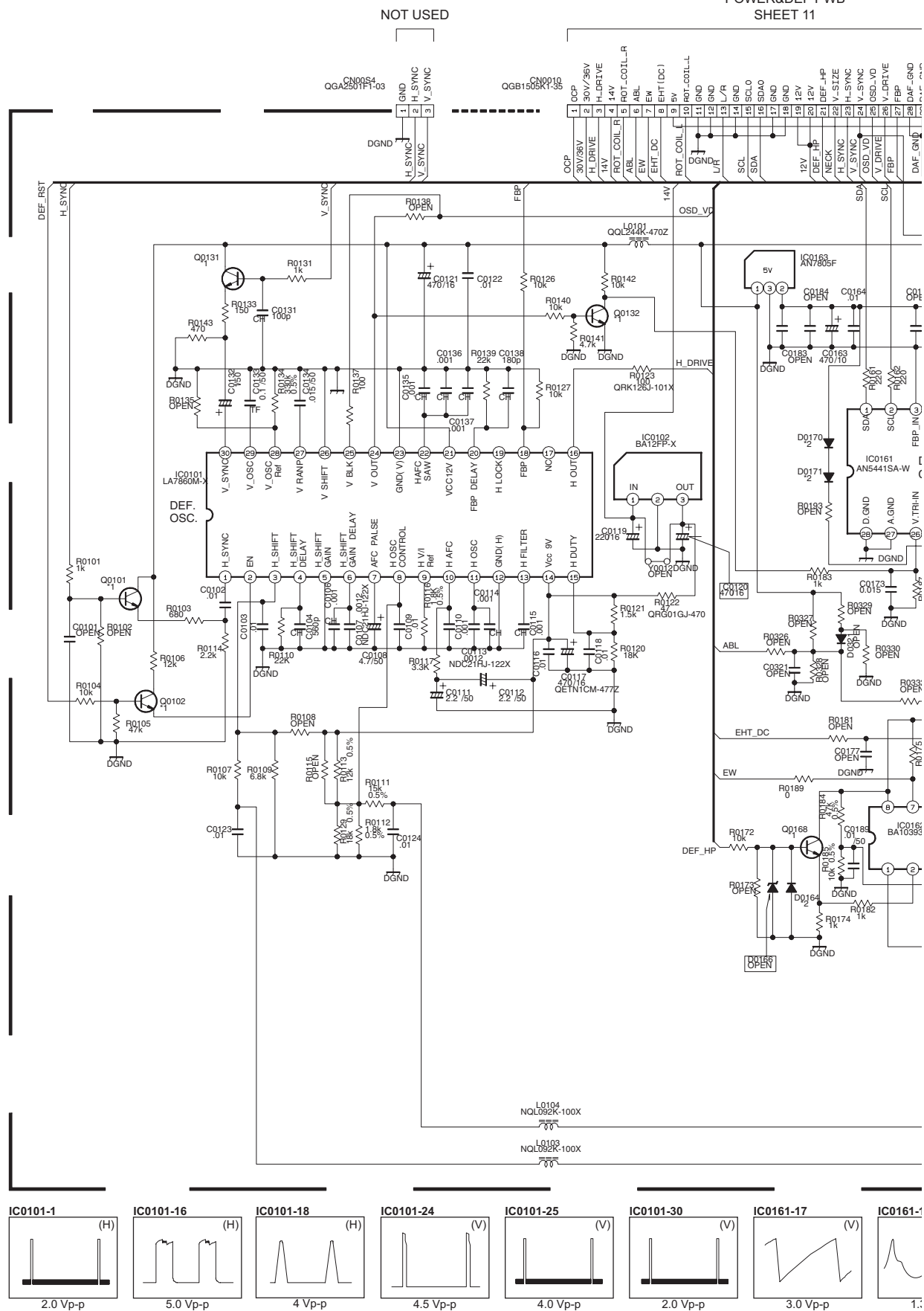
MODE	DC (V)
PIN NO.	
IC3101	
1	4.8
2	11.8
3	4.7
4	0
5	9.4
6	219
7	151
8	153
9	151
IC3201	
1	4.8
2	11.8
3	4.7
4	0
5	9.9
6	220
7	150
8	150
9	148
IC3301	
1	4.8
2	11.8
3	4.7
4	0
5	9.9
6	220
7	157
8	152
9	149
Q3051	
E	0
C	0
B	0.6
Q3052	
E	0
C	4.8
B	0
Q3701	
E	2.7
C	30.6
B	3.4
Q3702	
E	31.3
C	13.7
B	30.6
Q3703	
E	12.8
C	31.3
B	13.2
Q3704	
E	12.9
C	0
B	12.5
Q3705	
E	141.4
C	65
B	138.8
Q3706	
E	0.1
C	63.2
B	2.2

POWER&DEF PWB ASS'Y SSC-2003A-M2

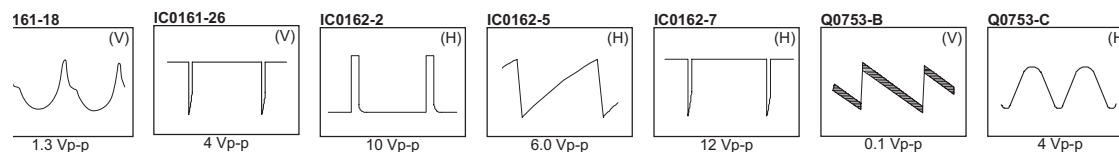
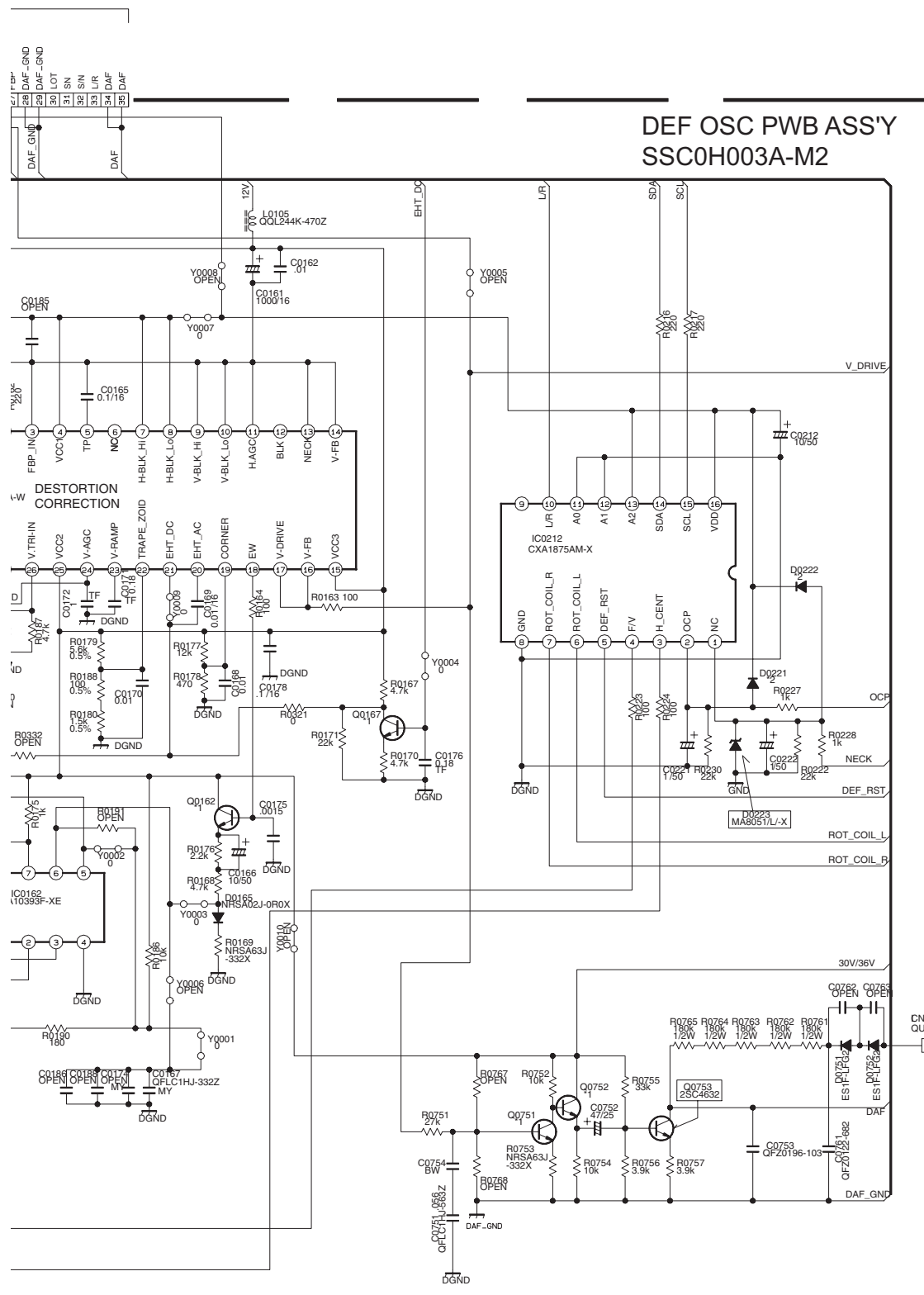


CRT SOCKET
SHE

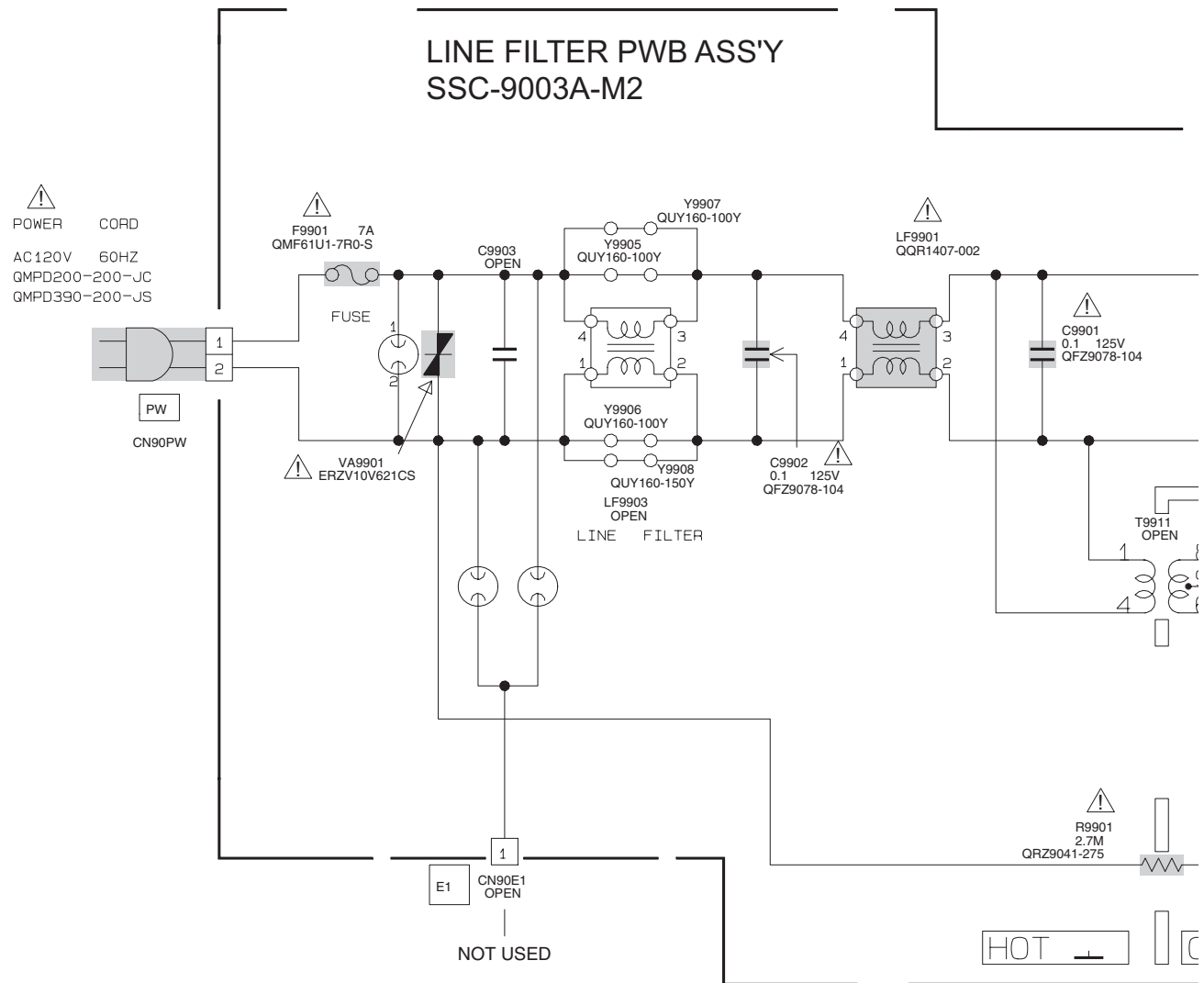


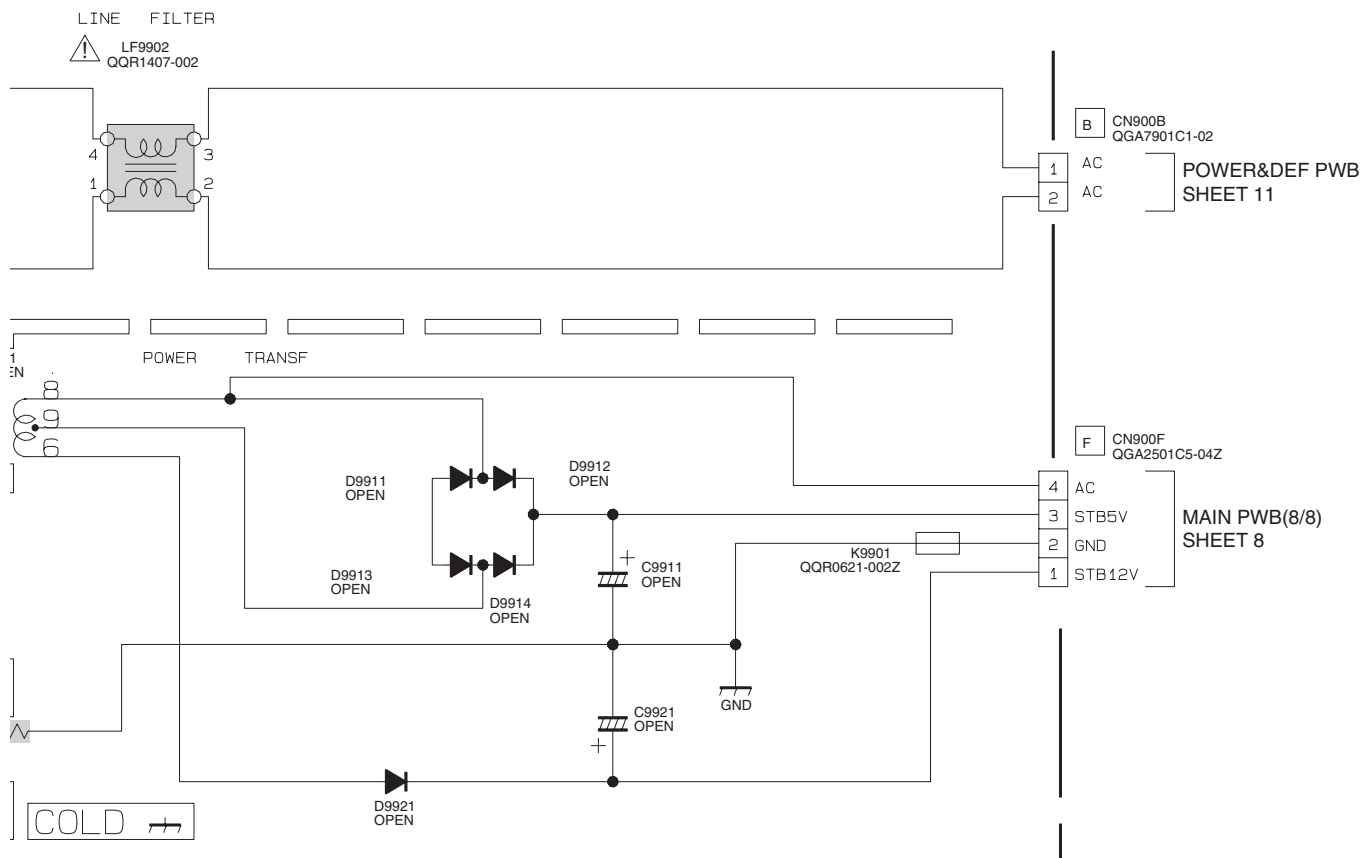


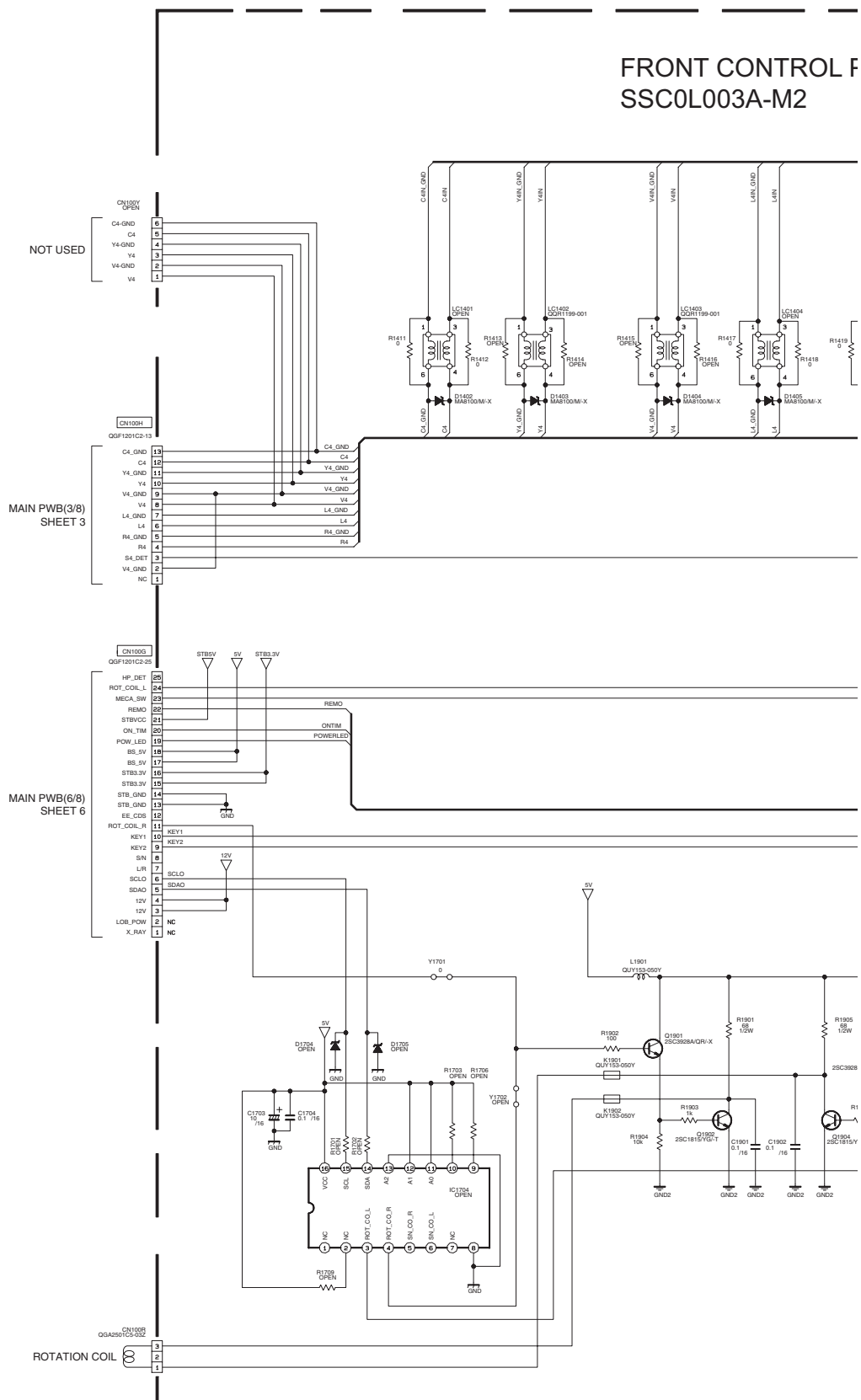
MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)
IC0101	3	2	
1	4.7	4	0
2	0.1	5	3.3
3	1	6	0.4
4	7.4	7	10.9
5	0	8	11.8
6	8.2	IC0163	
7	5.4	1	11.7
8	1.3	2	0
9	2.2	3	4.9
10	6.6	IC0212	
11	5.9	1	0.1
12	0	2	0
13	8.3	3	2.5
14	9.1	4	3.9
15	8.4	5	0.3
16	2.2	6	0.3
17	NC	7	0.3
18	0.3	8	0
19	4.9	9	NC
20	7.2	10	0
21	11.7	11	0
22	6	12	0
23	0	13	4.9
24	0	14	4.3
25	0	15	4.4
26	0	16	4.9
27	1.8	Q0101	
28	0.6	E	0
29	5.6	C	11.7
30	5.9	B	0.1
IC0102		Q0102	
1	14.7	E	0.1
2	0	C	11.7
3	12.1	B	0.3
IC0161		Q0131	
1	4.3	E	0
2	4.3	C	11.7
3	0	B	0
4	4.9	Q0132	
5	9	E	0
6	1.2	C	4.1
7	4.9	B	0
8	4.9	Q0162	
9	0	E	1.7
10	0	C	11.7
11	0	B	2.2
12	NC	Q0167	
13	0	E	2.1
14	0	C	7.9
15	11.7	B	2.1
16	4.9	Q0168	
17	4.9	E	1.3
18	2.2	C	11.7
19	0.8	B	1.5
20	2.9	Q0751	
21	7.9	E	0.4
22	2.6	C	0.4
23	1.3	B	1
24	6.2	Q0752	
25	11.8	E	0
26	3.4	C	0.3
27	0	B	0.4
28	0	Q0753	
IC0162		E	0
1	3.2	C	1200
2	1.3	B	0



POWER&DEF PWB
SHEET 11



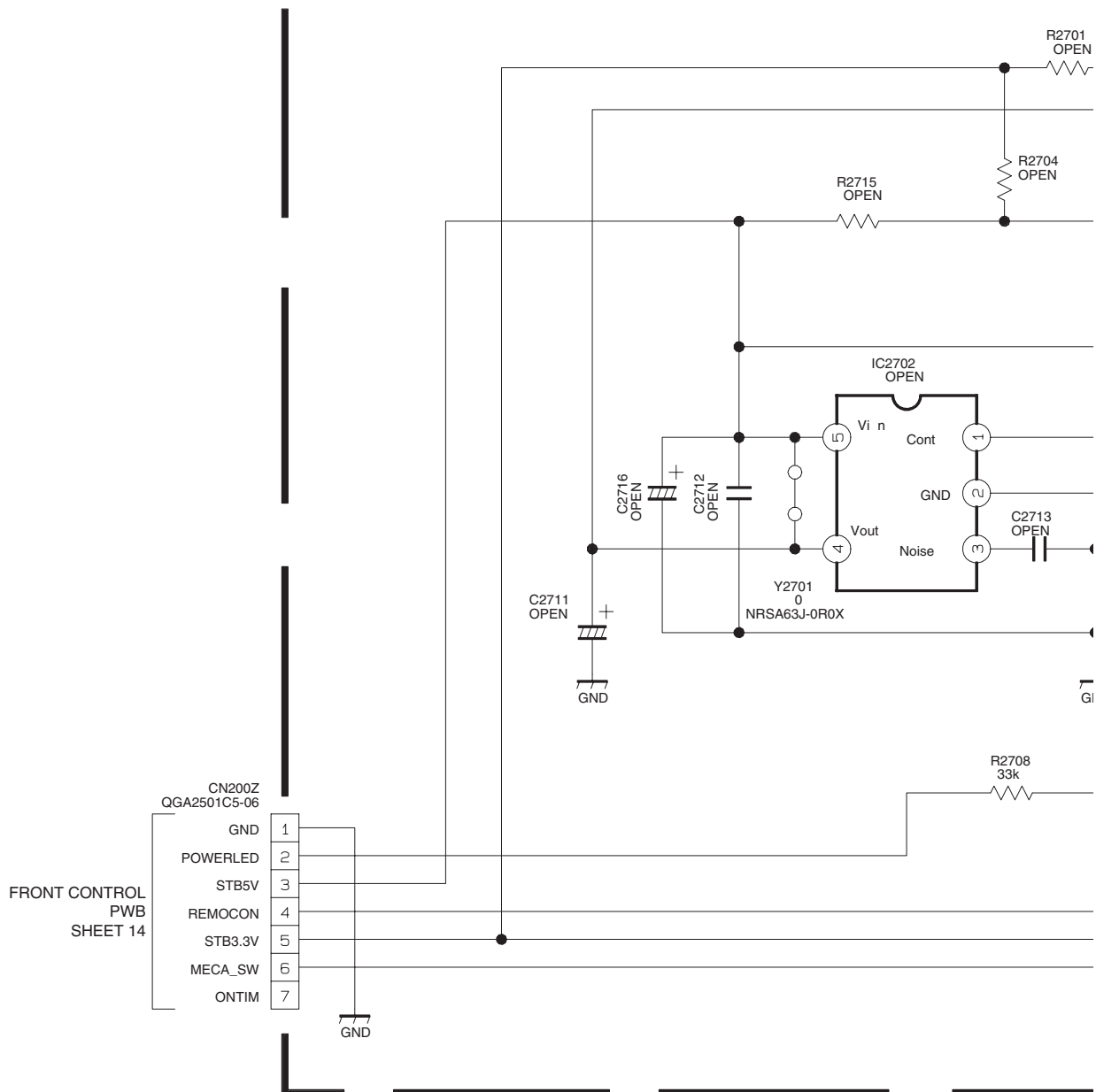




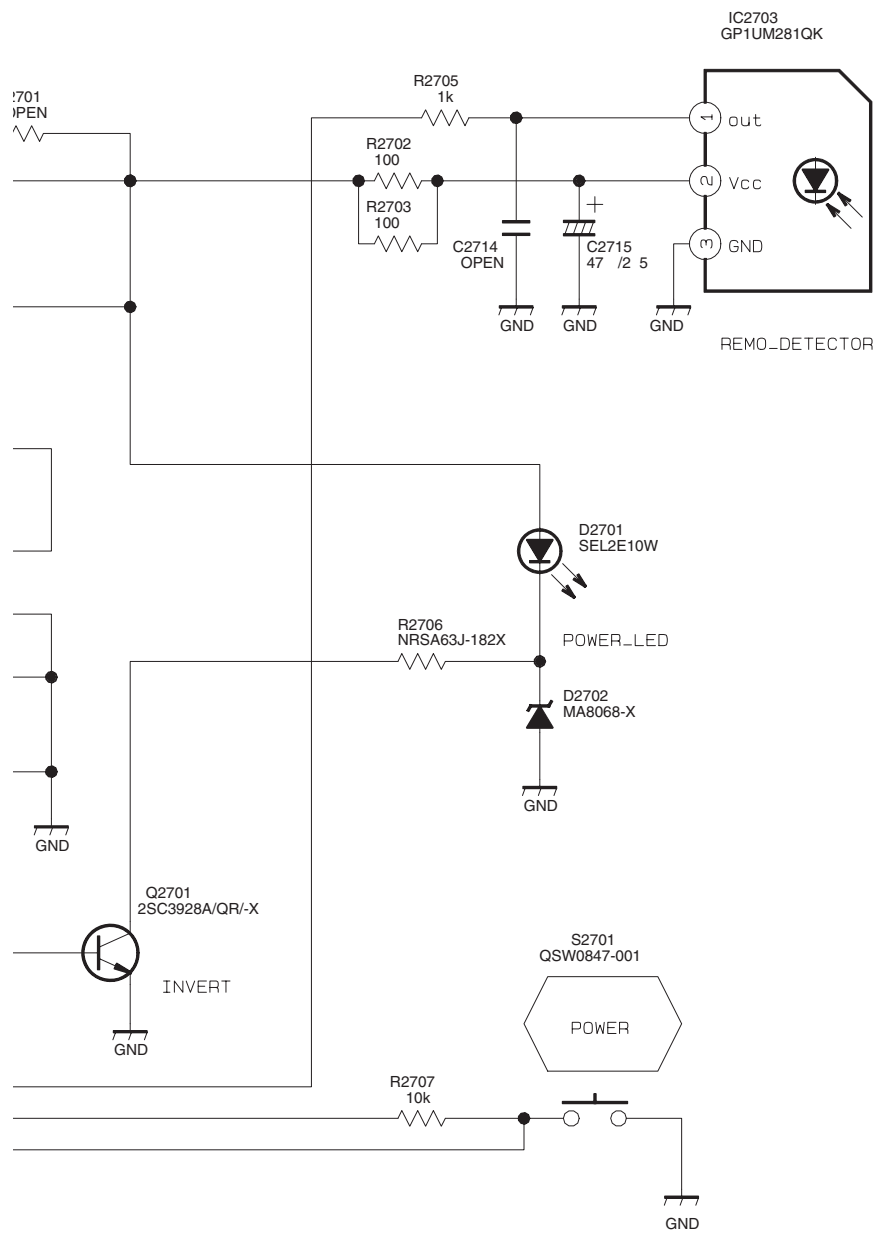
FRONT SW PWB ASS'Y

SSC0L104A-M2 : AV-32S565/Y

SSC0L103A-M2 : AV-32S575/Y, AV-32S585/Y

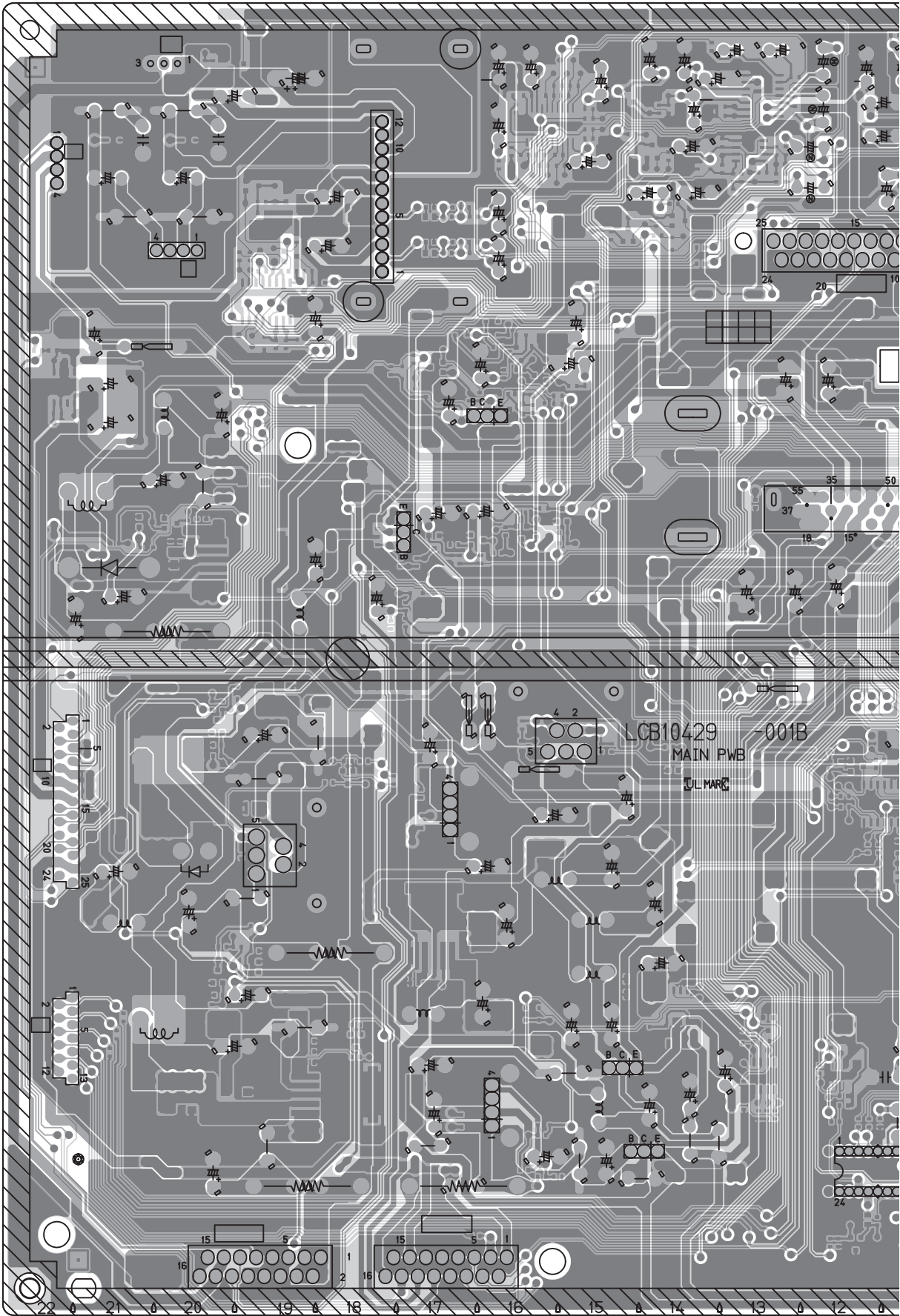


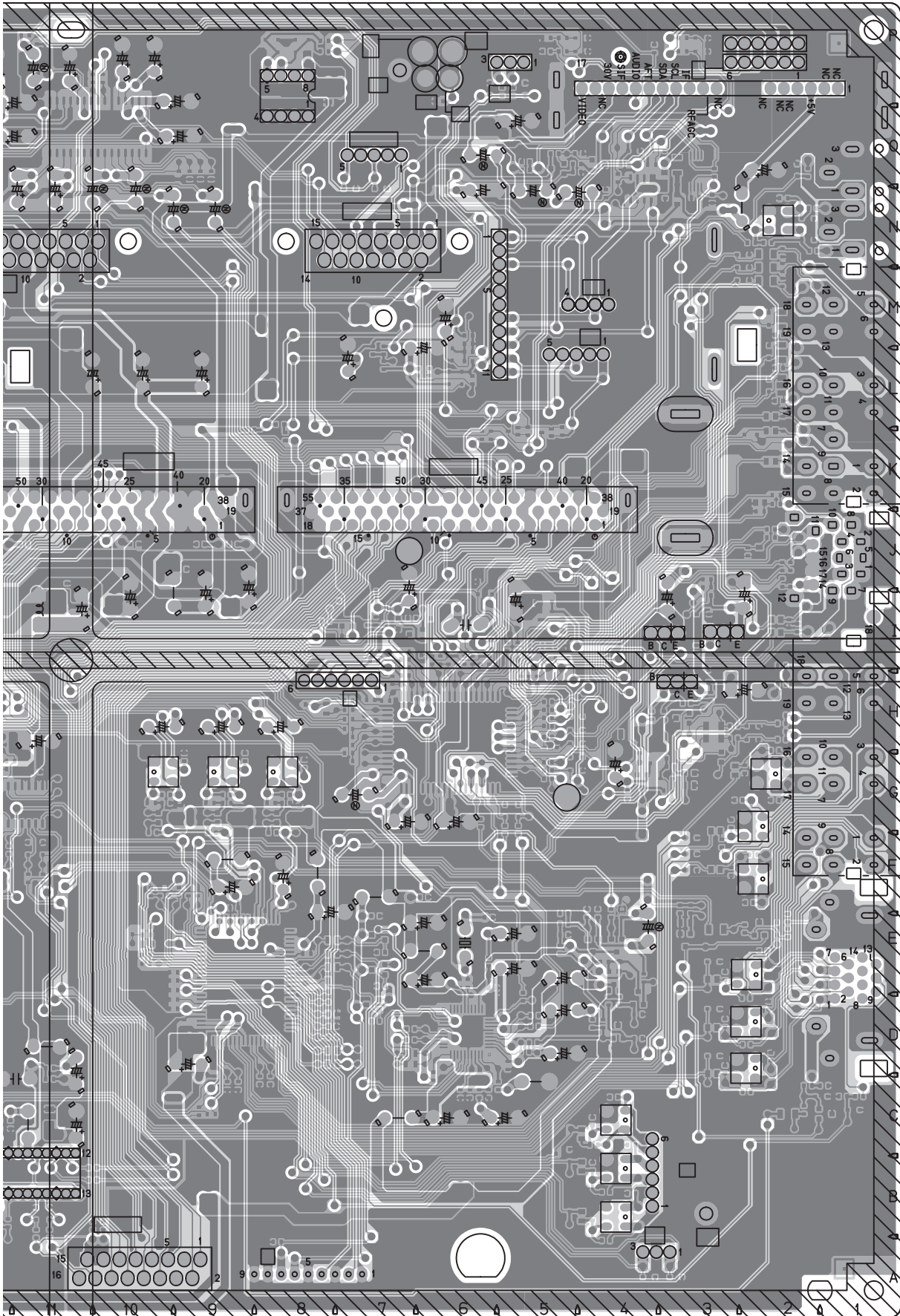
MODE	DC (V)
PIN NO.	
IC2703	
1	3.7
2	8.3
3	0
Q2701	
E	0
C	0
B	0.6



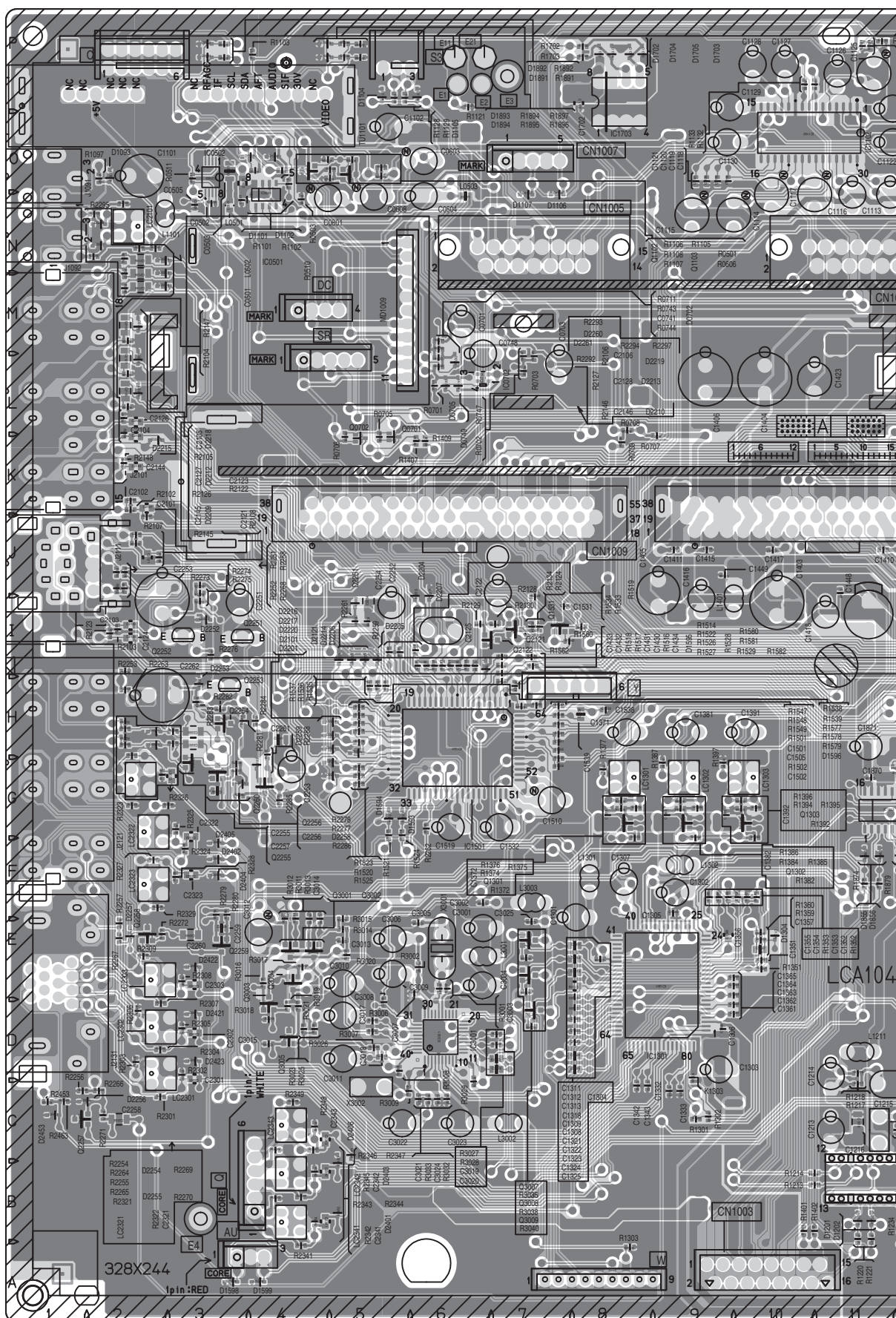
PATTERN DIAGRAMS MAIN PWB PATTERN [SOLDER SIDE]

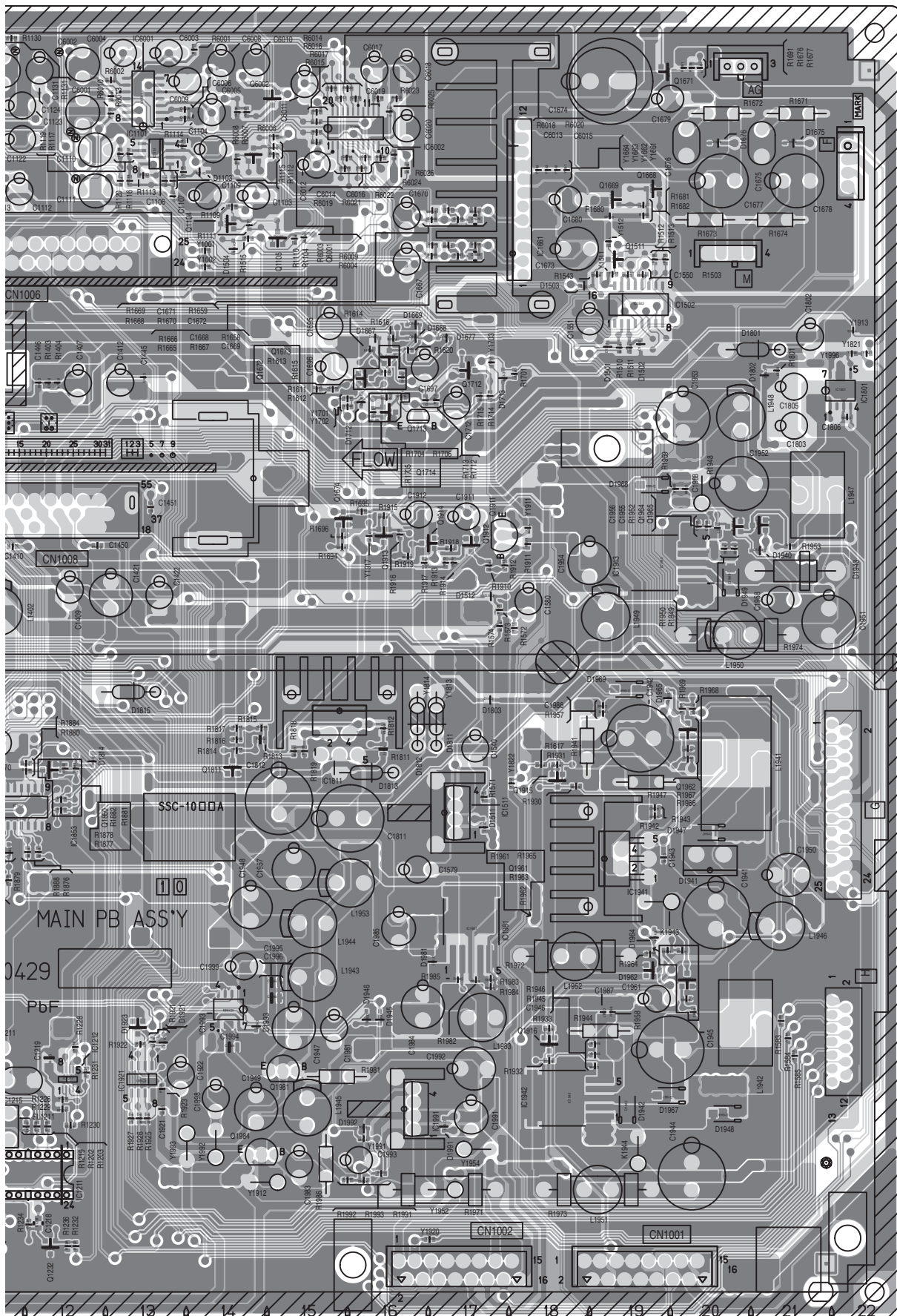
FRONT
➔





2-37(No.YA093)



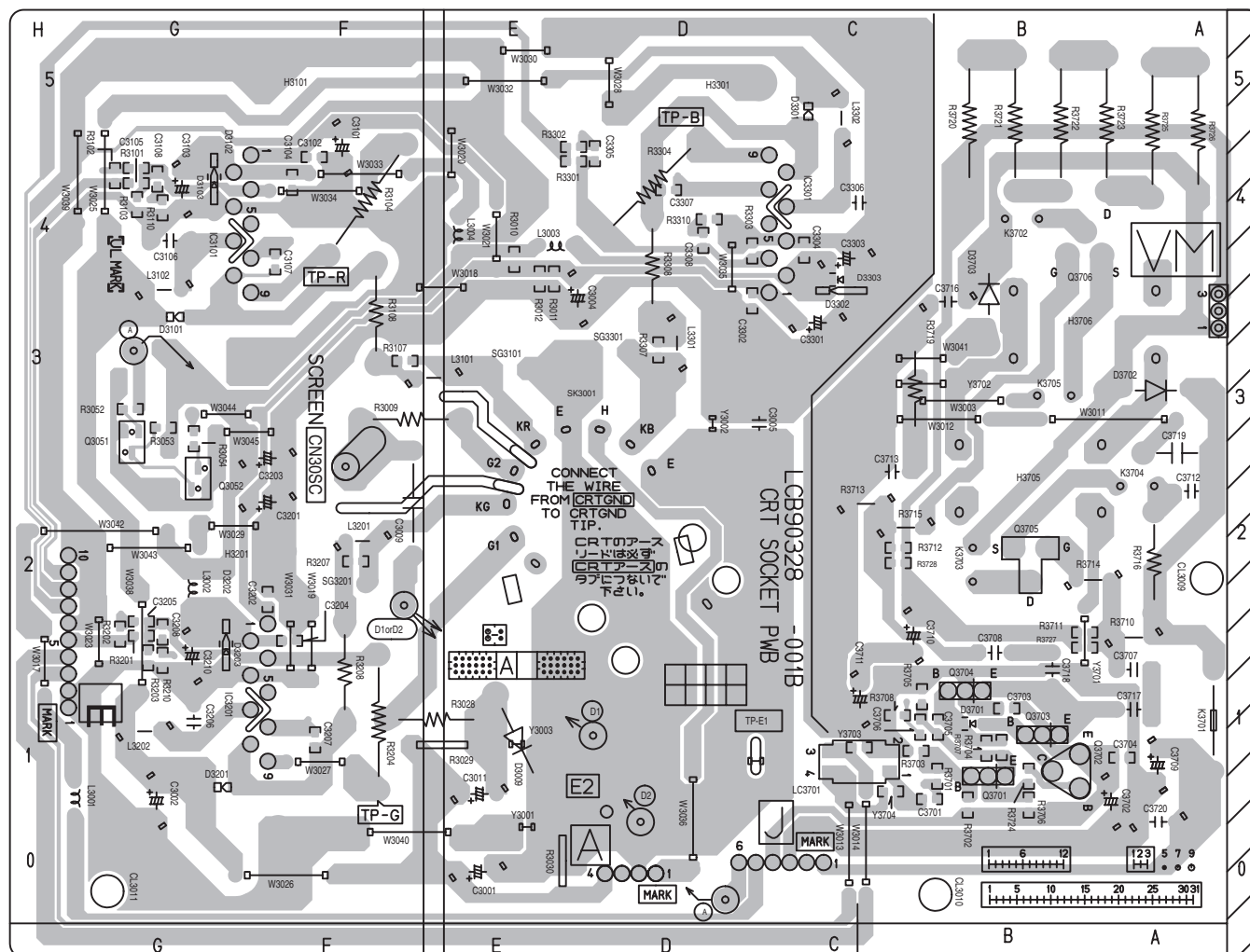


FRONT

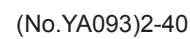


CRT SOCKET PWB PATTERN

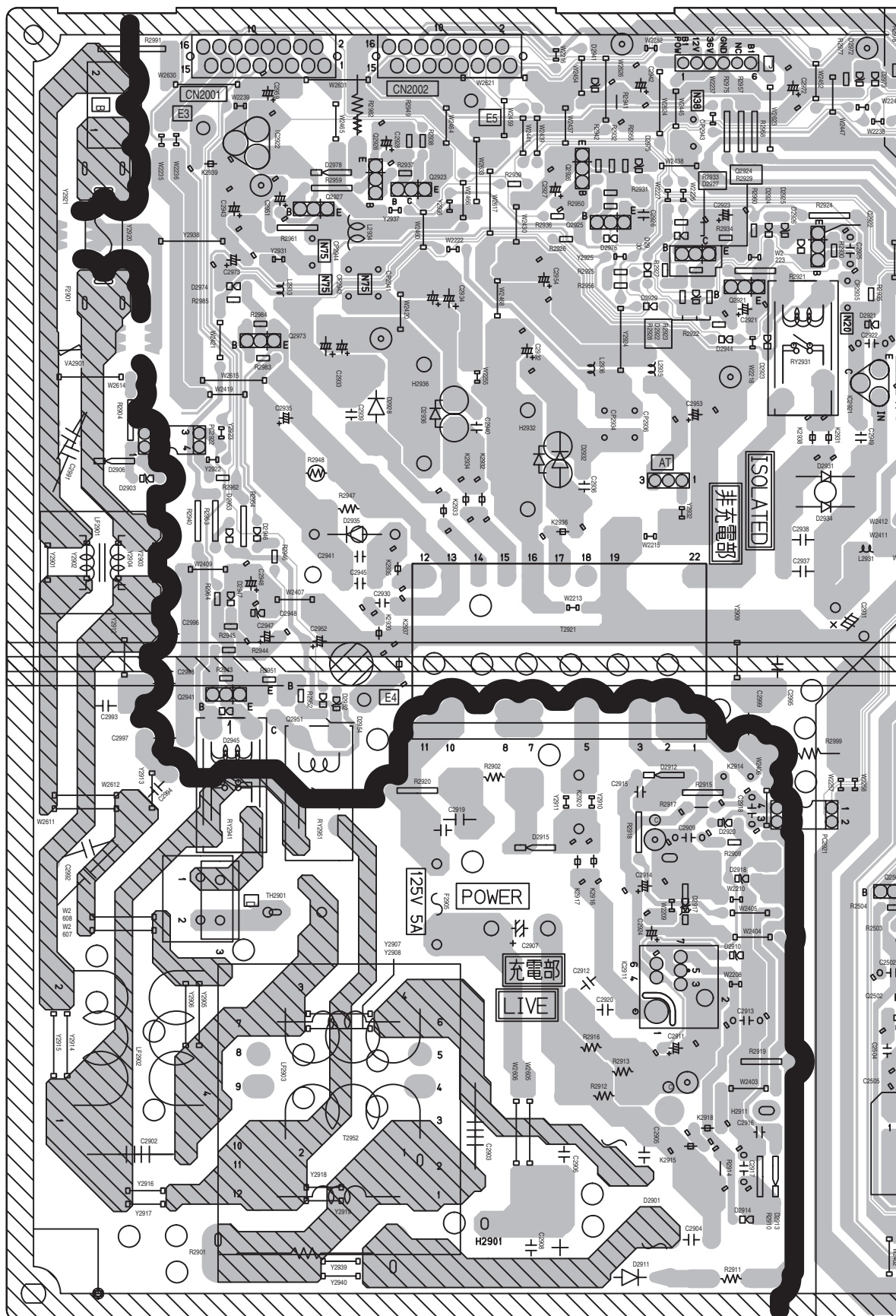
TOP

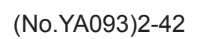
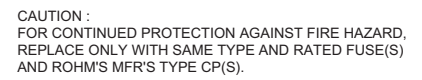


TOP
FRONT

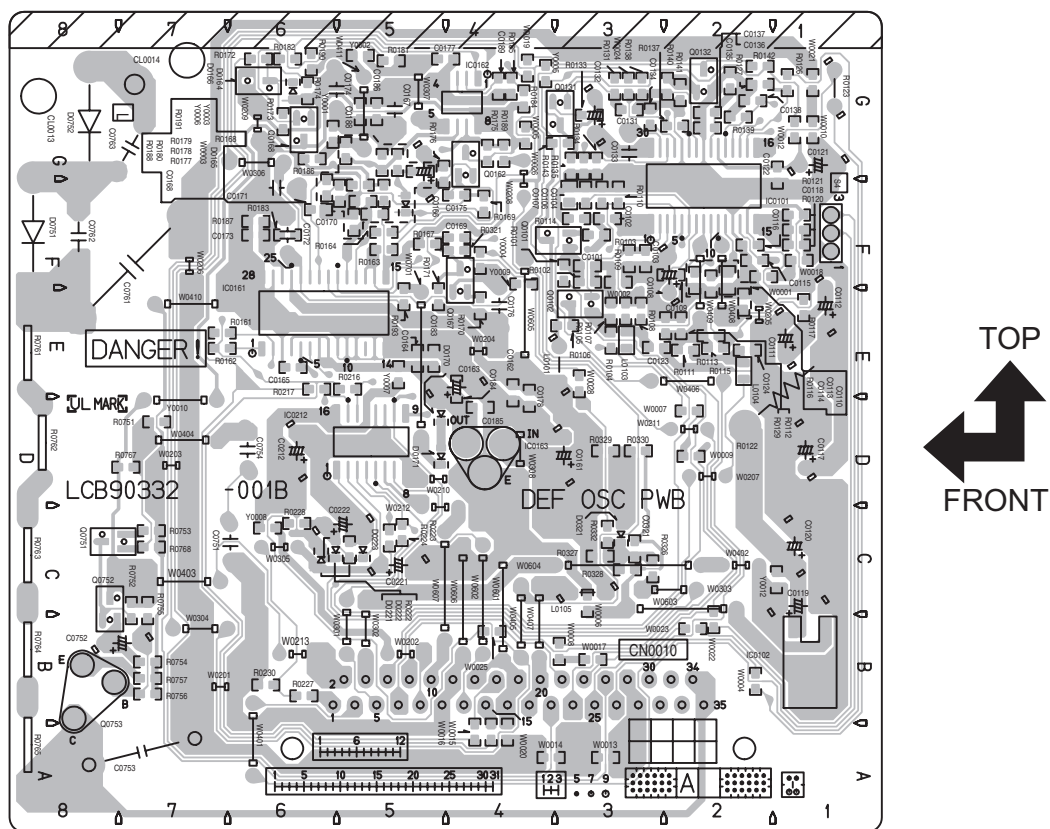


FRONT
←

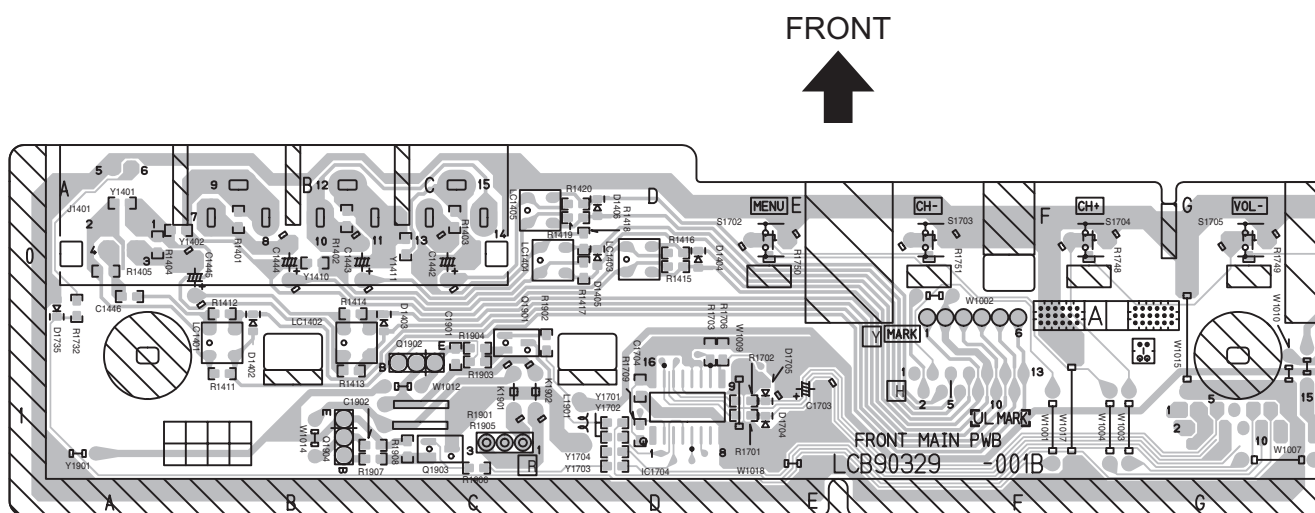




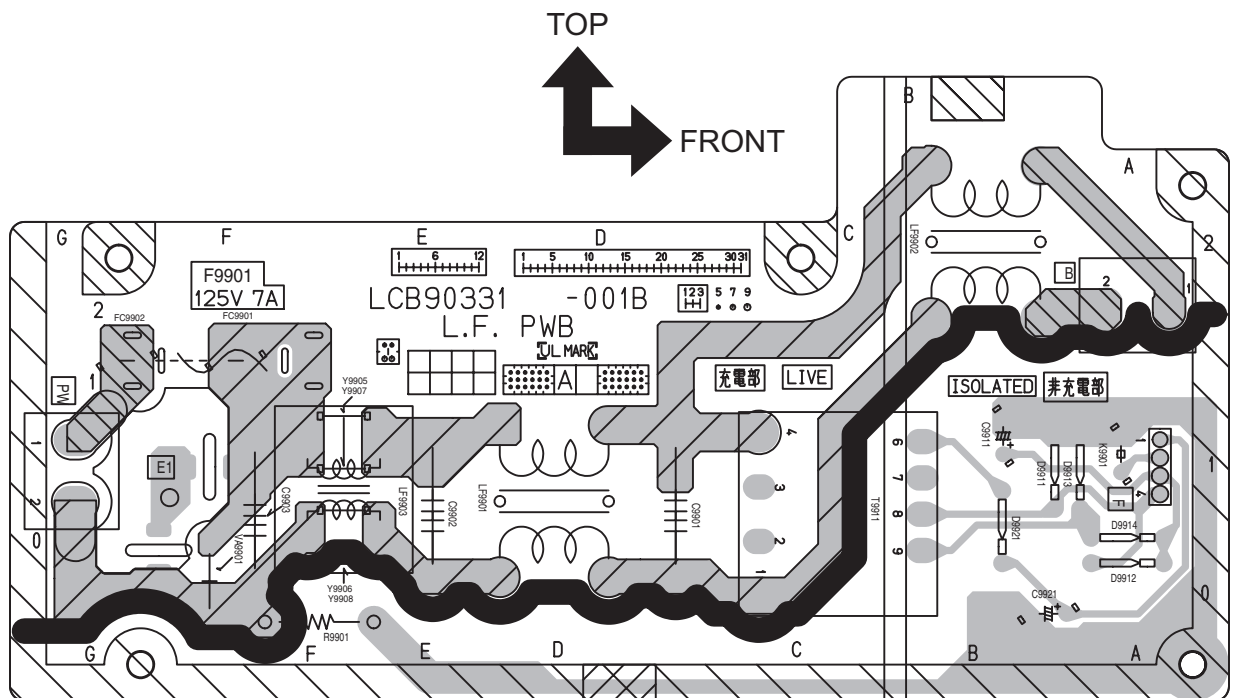
DEF OSC PWB PATTERN



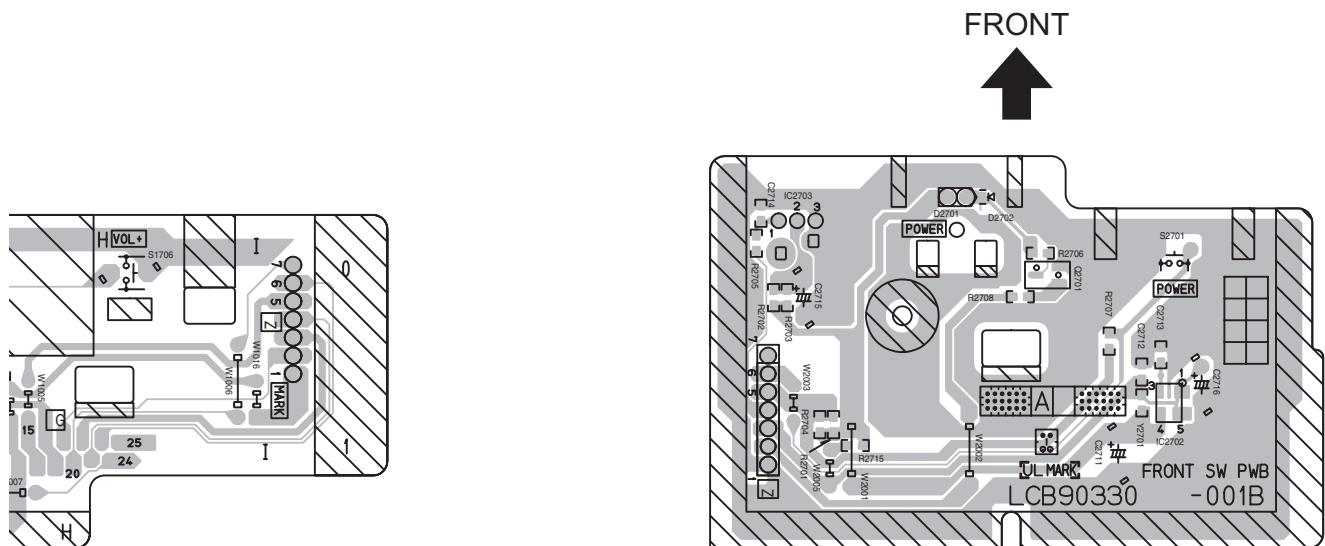
FRONT CONTROL PWB PATTERN



LINE FILTER PWB PATTERN



FRONT SW PWB PATTERN



CHANNEL CHART (US)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02		I
			03		
			04		
			05		
			06		
		VH	07		II
			08		
			09		
			10		
			11		
			12		
			13		
×	○	MID	A	14	I
			B	15	
			C	16	
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	II
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W+1	37	IV
			W+2	38	
			W+3	39	
			W+4	40	
			W+5	41	
			W+6	42	
			W+7	43	
			W+8	44	
			W+9	45	
			W+10	46	
			W+11	47	
			W+12	48	
			W+13	49	
			W+14	50	
			W+15	51	
			W+16	52	
			W+17	53	
			W+18	54	
			W+19	55	
			W+20	56	
		ULTRA	W+21	57	
			W+22	58	
			W+23	59	
			W+24	60	
			W+25	61	
			W+26	62	
			W+27	63	
			W+28	64	
			W+29	65	
			W+30	66	
			W+31	67	
			W+32	68	
			W+33	69	
			W+34	70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35	71	IV
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
			W+67	108	
			W+68	109	
			W+69	110	
			W+70	111	
			W+71	112	
			W+72	113	
			W+73	114	
			W+74	115	
			W+75	116	
			W+76	117	
			W+77	118	
			W+78	119	
		W+79	120		
		W+80	121		
		W+81	122		
		W+82	123		
W+83	124				
W+84	125				
SUB MID	A-8	01	I		
	A-4	96			
	A-3	97			
	A-2	98			
	A-1	99			
○	×	UHF	14 } 69	IV	
TOTAL 180CH { VHF 124CH { UHF 56CH					
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.					

CHANNEL CHART (CA)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02		I
			03		
			04		
			05		
			06		
		VH	07		
			08		
			09		
			10		
			11		
			12		
			13		
		MID	A	14	II
			B	15	
			C	16	
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
×	○	SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
		HYPER	V	35	III
			W	36	
			W+1	37	
			W+2	38	
			W+3	39	
			W+4	40	
			W+5	41	
			W+6	42	
			W+7	43	
			W+8	44	
			W+9	45	
			W+10	46	
			W+11	47	
			W+12	48	
			W+13	49	
			W+14	50	
			W+15	51	
			W+16	52	
			W+17	53	
			W+18	54	
			W+19	55	
		ULTRA	W+20	56	IV
			W+21	57	
			W+22	58	
			W+23	59	
			W+24	60	
			W+25	61	
			W+26	62	
			W+27	63	
			W+28	64	
			W+29	65	
			W+30	66	
			W+31	67	
			W+32	68	
			W+33	69	
			W+34	70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35	71	IV
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
			W+67	108	
			W+68	109	
			W+69	110	
			W+70	111	
			W+71	112	
			W+72	113	
			W+73	114	
			W+74	115	
			W+75	116	
			W+76	117	
			W+77	118	
			W+78	119	
		W+79	120		
		W+80	121		
		W+81	122		
		W+82	123		
W+83	124				
W+84	125				
SUB MID	A-8	01	I		
	A-4	96			
	A-3	97	II		
	A-2	98			
A-1	99				
○	×	UHF	14 } 69	IV	
TOTAL 180CH { VHF 124CH { UHF 56CH					
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.					

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