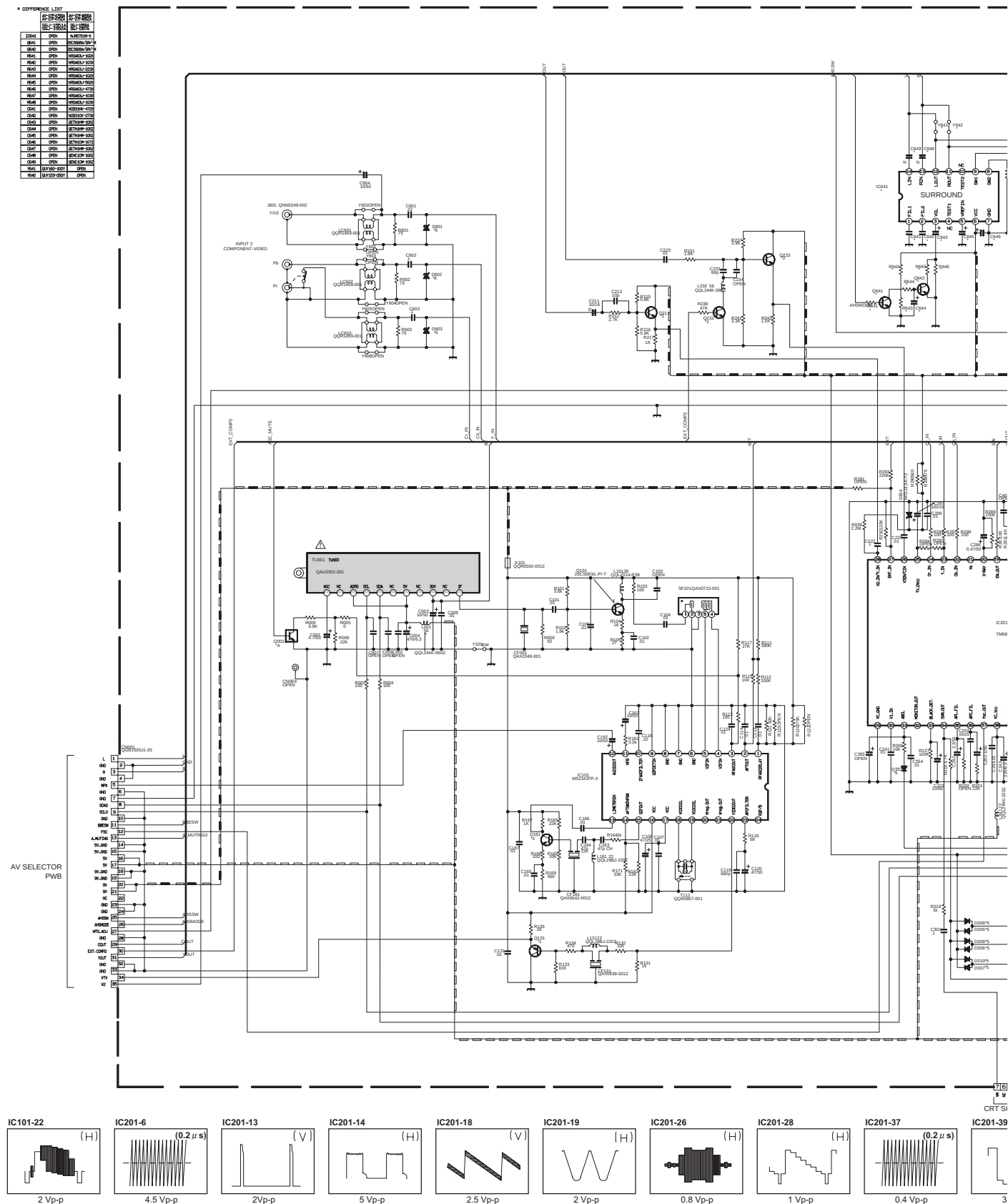
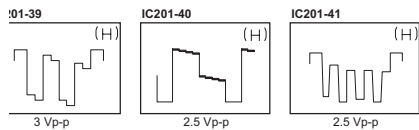
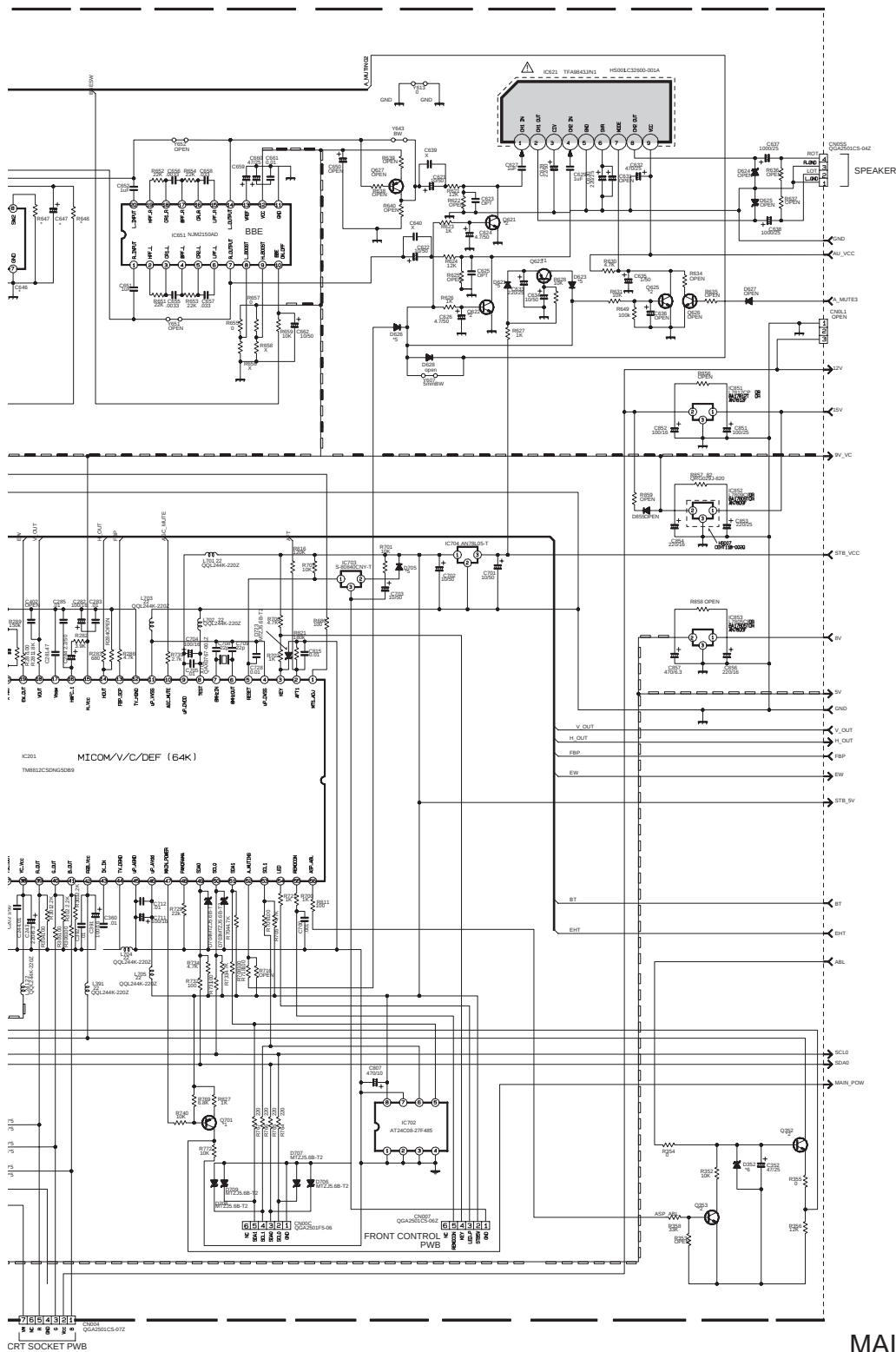


CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/2) SHEET1



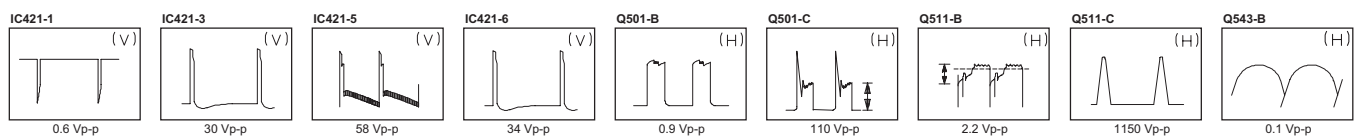
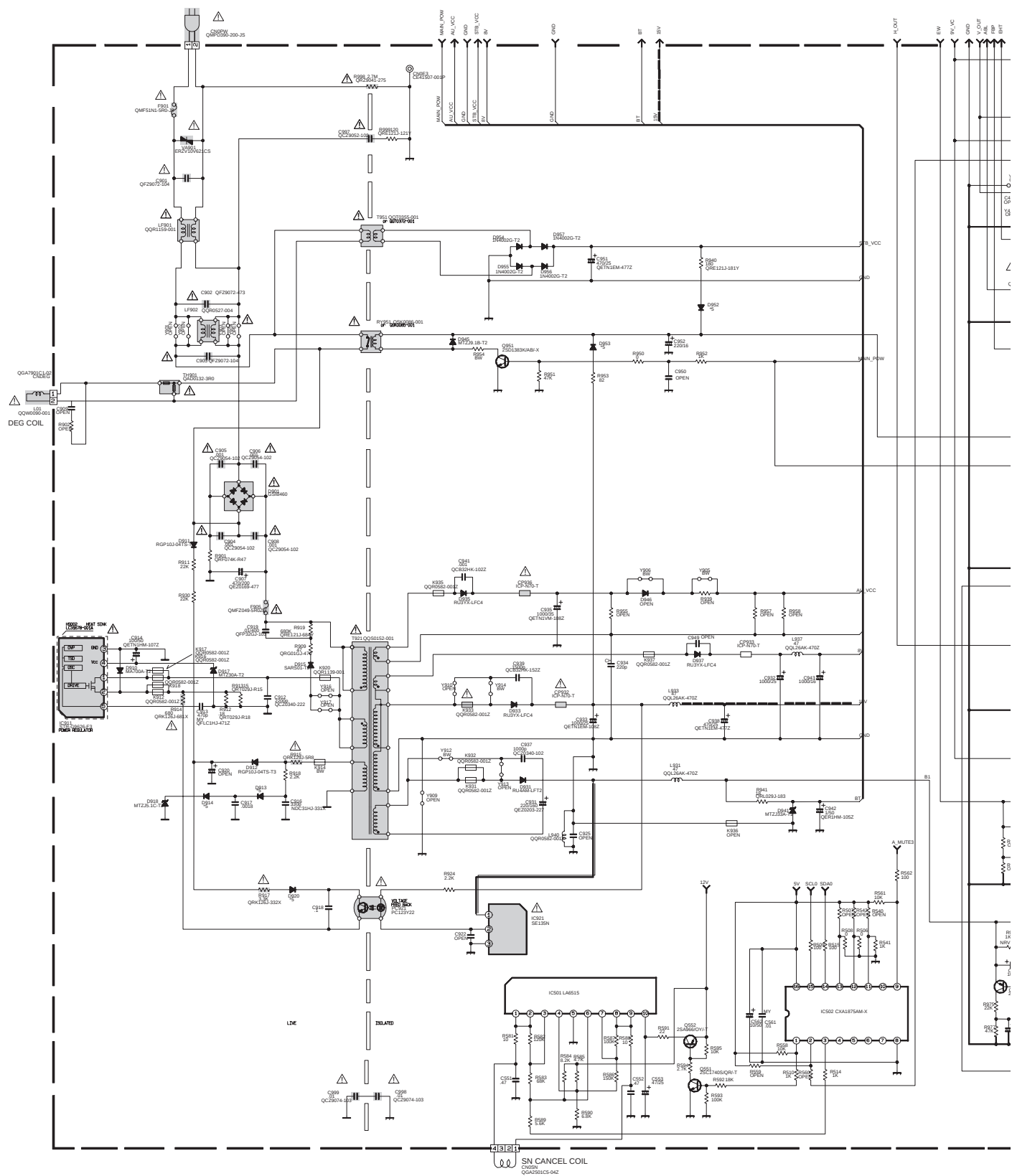


NOTE					
*1 : OHP PNP T ₁	25A1530A/GR/-X	OR	25B705A/GR/-X	BM	BUS WIRE
*2 : OHP NPN T ₁	25C3928A/GR/-X	OR	25D601A/GR/-X	X	NON-MOUNT (OPEN)
*3 : OHP PNP D-T ₁	DTA1246A-X	OR	UN2112-X	Δ	SAFETY PARTS
*4 : OHP NPN D-T ₁	DT1246A-X	OR	UN212-X	○	0 Ω RESISTOR
*5 : S1 DIODE	159133-T2			*	DIFFERENCE PARTS
*6 : ZENER DIODE	MTZJ9.5C-T2				
*7 : ZENER DIODE	MTZJ9.5A-T2				
*8 : S1 DIODE	66P10J-5025-T3				
*9 : S1 DIODE	15935-400A-T2	OR	1N4003-T2		
*10 : PNP TE	25A933AS/GR/-3				
*11 : S1 DIODE	66P10J-5475-T3				

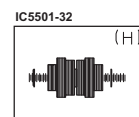
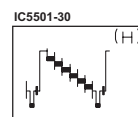
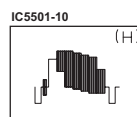
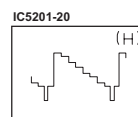
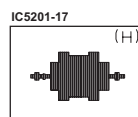
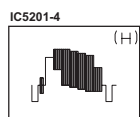
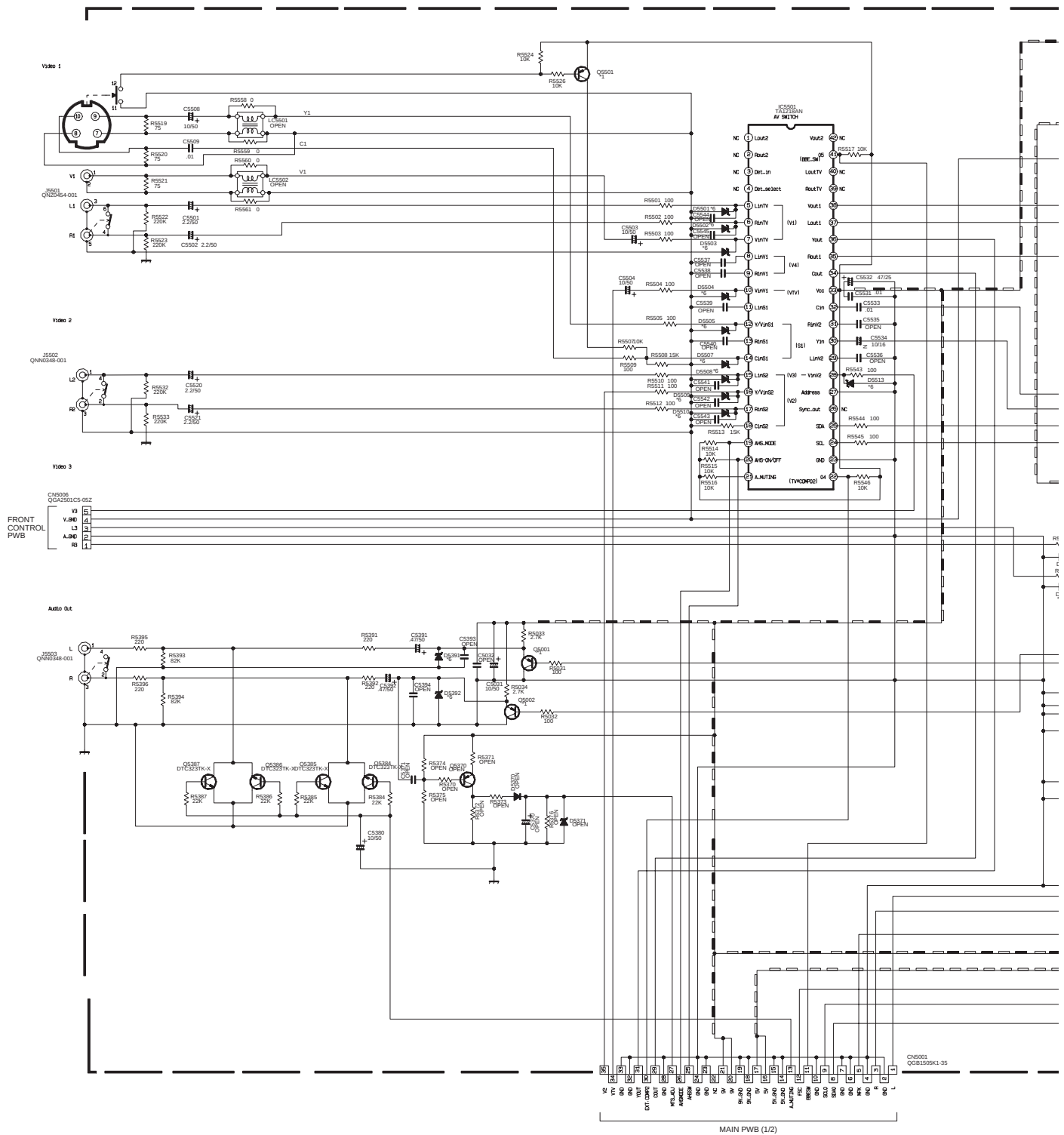
MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)
IC 101		IC 621		Q 161	
1	2	1	3.1	E	2
2	2.5	2	10	C	5.7
3	3.9	3	3.1	B	2.7
4	1.4	4	3.1	Q 211	
5	1.4	5	0	E	3.7
6	0	6	11.4	C	8.8
7	0	7	19.3	B	0
8	0	8	10	Q 232	
9	0	9	19.8	E	0
10	4.2	IC 641		C	0.9
11	2.5	1	4.4	C	0.1
12	4.2	2	4.4	Q 233	
13	2.1	3	4.4	E	3.3
14	3.5	4	4.4	C	8.8
15	2.1	5	4.4	B	4
16	8.8	6	8.8	Q 352	
17	8.8	7	0	E	8.1
18	3.9	8	0	C	8.8
19	3.9	9	0.1	B	9
20	4.8	10	4.4	Q 353	
21	4.8	11	4.4	E	0
22	3.3	12	4.4	C	9
23	3.3	13	4.4	B	0
24	2.1	14	4.4	Q 623	
IC 201		IC 651		E	10.3
1	0	1	4.4	C	-0.9
2	1.5	2	4.4	B	10.4
3	4.7	3	4.4	Q 625	
4	0	4	4.4	E	0
5	5	5	4.4	C	19.3
6	2.2	6	4.4	B	0
7	2	7	4.4	Q 641	
8	0	8	8.8	E	0
9	5	9	8.8	C	1.3
10	0	10	16	B	0.1
11	0	11	0	Q 642	
12	0	12	8.8	E	0
13	1.1	13	4.4	C	0
14	1.9	14	4.4	B	0.7
15	8.8	15	4.4	Q 701	
16	6.3	16	4.4	E	3.7
17	3.5	17	4.4	C	2.4
18	4.2	18	4.4	B	3
19	4.5	19	4.4	TU 001	
20	0	20	4.4	1	3.9
21	0			2	0
22	2.1	IC 702		3	4.8
23	2.3	1	0	4	3.7
24	2.1	2	0	5	3.9
25	3.5	3	0	6	4.7
26	2.2	4	0	7	4.8
27	3.5	5	4.8	8	0
28	2.4	6	4.7	9	31.4
29	0	7	0	10	0
30	2.2	8	5	11	0
31	6.1	IC 703			
32	0	1	0		
33	1.9	2	5		
34	3.5	3	5		
35	1.7	IC 851			
36	2.7	1	15.5		
37	2.8	2	11.9		
38	4.8	3	0		
39	2	IC 852			
40	1.9	1	15.6		
41	1.9	2	8.8		
42	8.8	3	0		
43	4.3	IC 853			
44	0	1	7.9		
45	0	2	4.9		
46	5	3	0		
47	0	Q 001			
48	0	E	0		
49	3.9	C	3.9		
50	3.7	B	0		
51	4.8	Q 101			
52	0	E	1		
53	4.7	C	8.8		
54	0	B	1.7		
55	4.9	Q 131			
56	0	E	2.2		
		C	0		
		B	1.6		

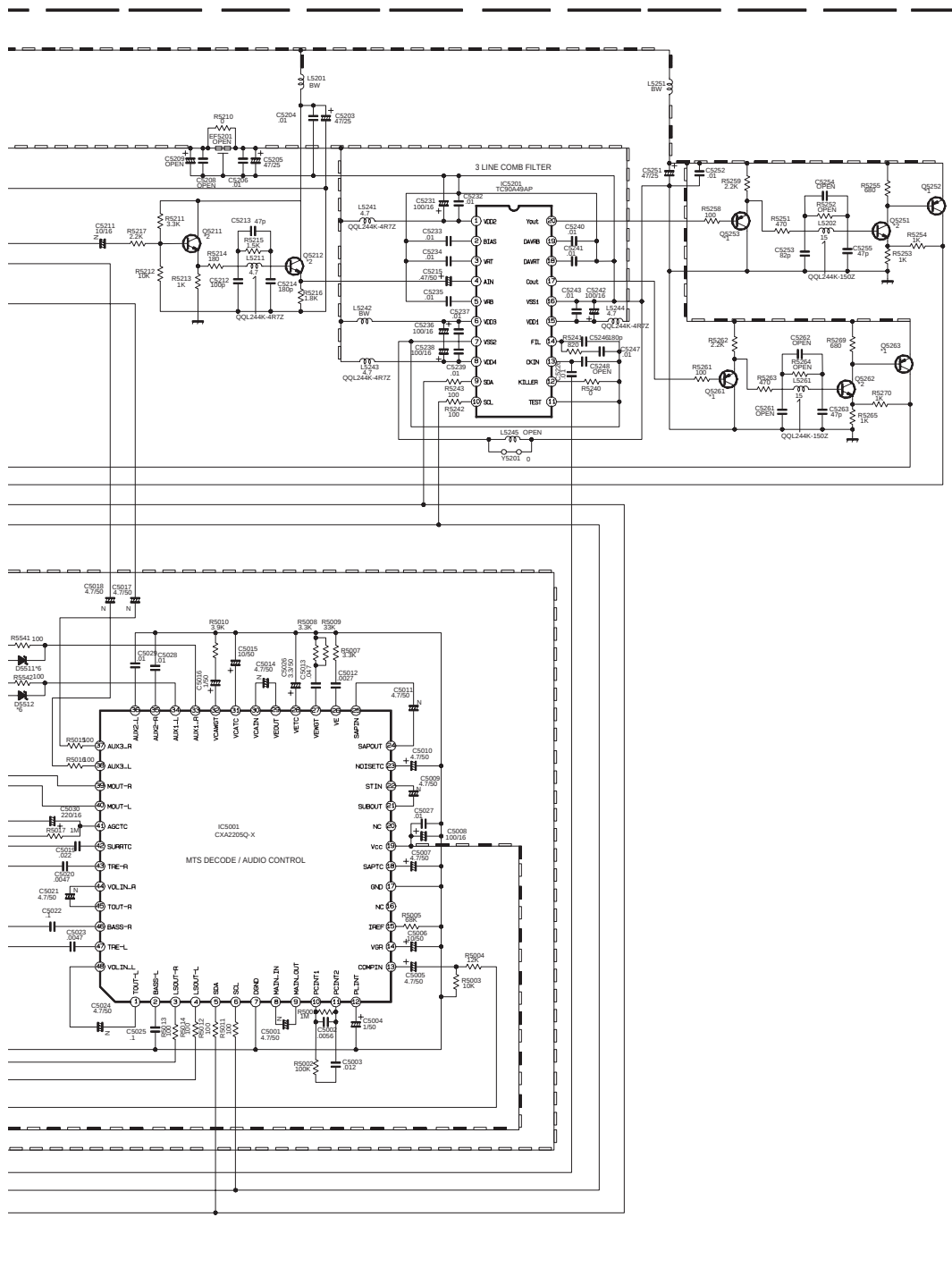
MAIN PWB ASS'Y (1/2)
 SGJ-1551A-M2: AV-27F475/S
 SGJ-1552A-M2: AV-27F475/Z
 SGJ-1556A-M2: AV-27F485/S
 SGJ-1557A-M2: AV-27F485/Z

MAIN PWB CIRCUIT DIAGRAM (2/2) SHEET 2



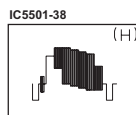
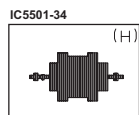
AV SELECTOR PWB CIRCUIT DIAGRAM SHEET 3





NOTE

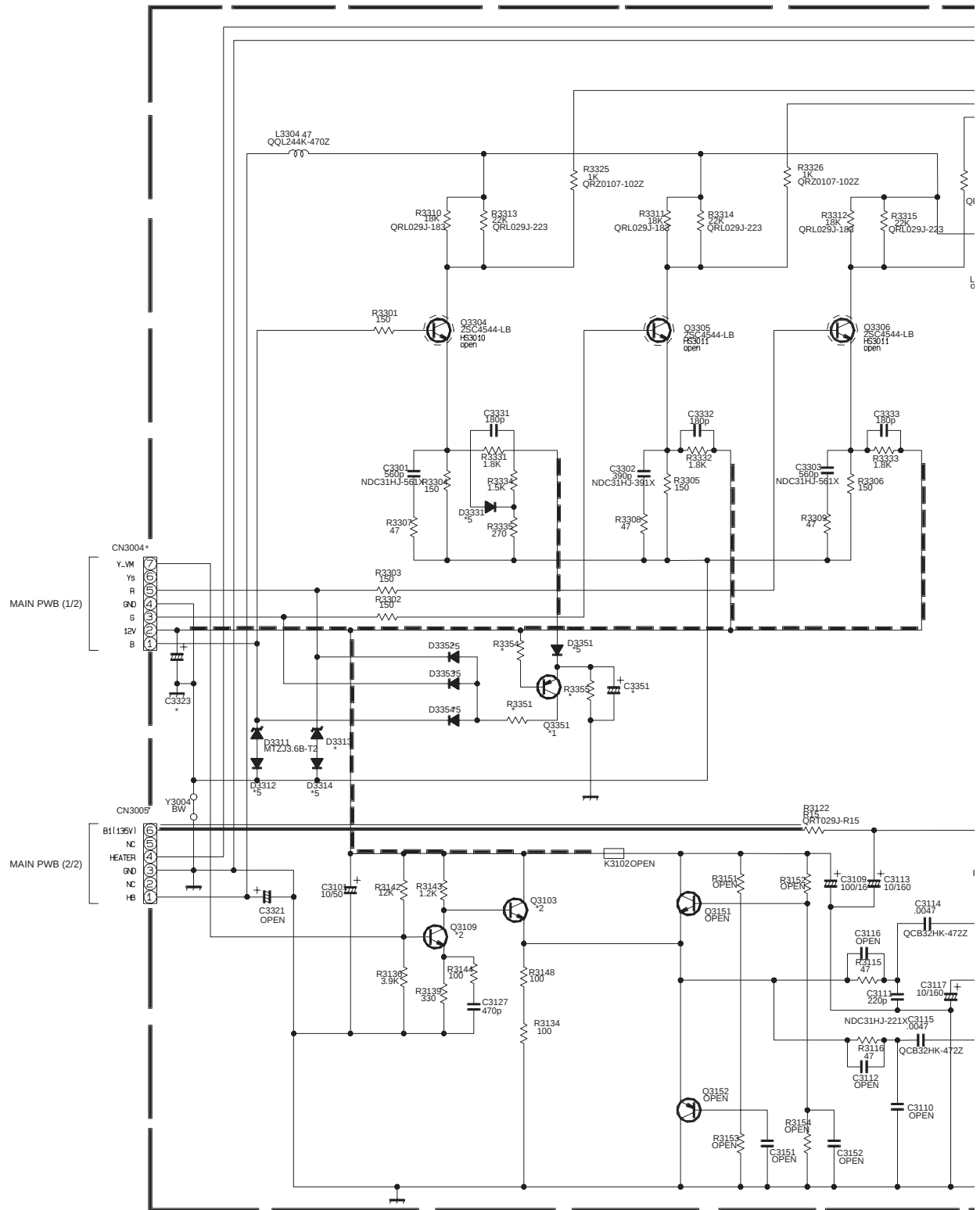
- *1: CHIP PNP Tr. 2SA1530A/GR/-X OR 2SB709A/GR/-X BW : BUS WIRE
- *2: CHIP NPN Tr. 2SC3928A/GR/-X OR 2SD601A/GR/-X X : NON-MOUNT (OPEN)
- *3: CHIP PNP D-Tr. DTA124EKA-X OR UN2112-X Δ : SAFETY PARTS
- *4: CHIP NPN D-Tr. DTC124EKA-X OR UN2212-X O : 0 Ω RESISTOR
- *5: SI DIODE 1SS133-T2 *
- *6: ZENER DIODE MTZJ9-1C-T2
- *7: ZENER DIODE MTZJ5-6A-T2
- *8: SI DIODE RSP10J-04T5-T3 OR RSP10J-5025-T3
- *9: SI DIODE 1SR35-400A-T2 OR 1N4003-T2
- *10: PNP TE. 2SA933AS/GR/-3

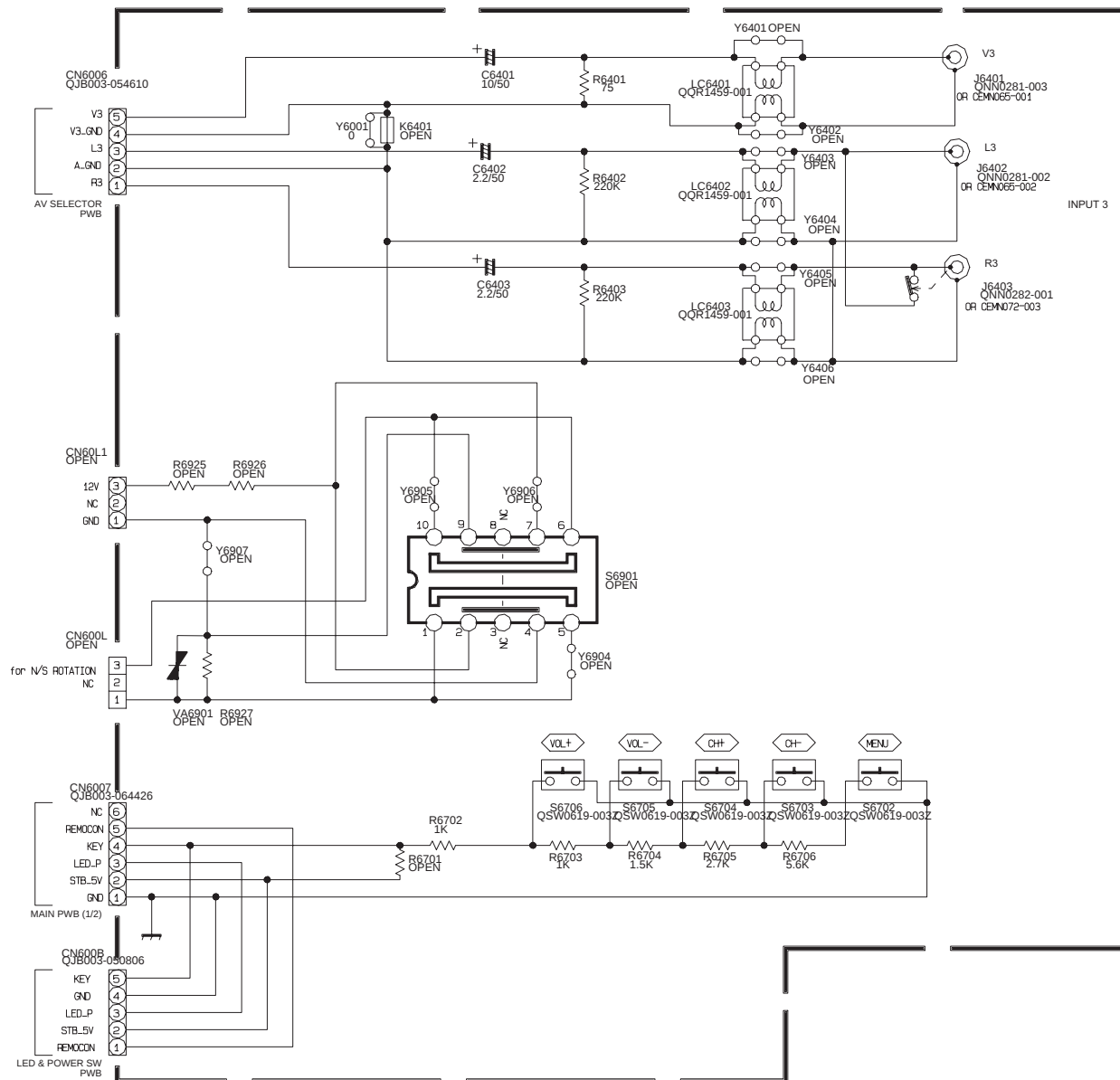


AV SELECTOR PWB ASS'Y SGJ-5506A-M2

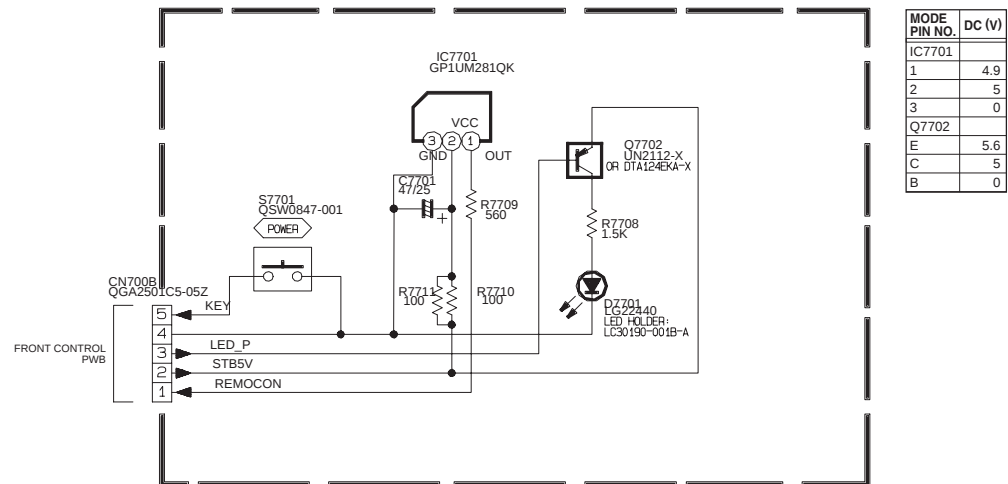
MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)
IC 5001		40	3.8
1	4	41	8.2
2	4.1	42	4.3
3	4	IC 5201	
4	4	1	4.5
5	3.9	2	1.3
6	3.7	3	3.1
7	0	4	2.3
8	4	5	1.8
9	4	6	4.9
10	4	7	0
11	3.9	8	4.9
12	5.1	9	3.9
13	4	10	3.7
14	1.2	11	0
15	0	12	0
16	0	13	2.5
17	0	14	1.8
18	3	15	4.9
19	8.8	16	0
20	0	17	2.3
21	0	18	3.1
22	4	19	1.8
23	4.1	20	2.3
24	3.8	Q 5001	
25	4	E	4.7
26	3.9	C	0
27	4	B	4
28	1.7	Q 5002	
29	4	E	4.7
30	4	C	0
31	1.6	B	4
32	4	Q 5211	
33	4	E	5.9
34	4	C	8.8
35	4	B	6.6
36	4	Q 5212	
37	4	E	5.2
38	4	C	8.8
39	4	B	5.9
40	4	Q 5251	
41	0.6	E	2.4
42	4	C	8.1
43	0	B	3
44	4	Q 5252	
45	4	E	8.8
46	0	C	3.9
47	4	B	8.1
48	4	Q 5253	
IC 5501		E	3
1	3.8	C	0
2	3.8	B	2.3
3	6.4	Q 5261	
4	3.6	E	3
5	5.1	C	0
6	5.1	B	2.3
7	5.1	Q 5262	
8	5.1	E	2.4
9	5.1	C	8.1
10	5.1	B	3
11	5.1	Q 5263	
12	5.1	E	8.8
13	5.1	C	3.9
14	1.7	B	8.1
15	5.1	Q 5384	
16	5.1	E	0
17	5.1	C	0
18	1.7	B	0
19	0.1	Q 5385	
20	0.1	E	0
21	0	C	0
22	0.1	B	0
23	0	Q 5386	
24	3.7	E	0
25	3.9	C	0
26	0.7	B	0
27	0	Q 5387	
28	5.1	E	0
29	5.1	C	0
30	5.1	B	0
31	5.1	Q 5370	
32	5	E	8.8
33	8.8	C	0
34	3.6	B	8.2
35	3.8	Q 5501	
36	3.6	E	8.8
37	3.8	C	1.7
38	4.3	B	8.8
39	3.8		

CRT SOCKET PWB CIRCUIT DIAGRAM SHEET 4





FRONT CONTROL PWB ASS'Y
SGJ-6506A-M2



LED & POWER SW PWB ASS'Y
SGJ-7506A-M2

3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

3.2.1 MEMORY IC REPLACEMENT PROCEDURE

1. Power off

Switch off the power and disconnect the power cord from the wall outlet.

2. Replace the memory IC

Be sure to use a memory IC written with the initial setting data.

3. Power on

Connect the power cord to the wall outlet and switch on the power.

4. Receiving channel setting

Refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the receive channels (Channels Preset) as described.

5. User settings

Check the user setting items according to the "FACTORY SETTING ITEM" table.

Where these do not agree, refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the items as described.

6. SERVICE MODE setting

Verify what to set in the SERVICE MODE, and set whatever is necessary(Fig.1) .

Refer to the SERVICE ADJUSTMENT for setting.

3.2.2 SERVICE MODE SETTING ITEMS

SERVICE MENU

SERVICE MENU	
1. V/C(S)	2. DEF(D)
3. SOUND(A)	4. OTHERS(F)
5. 3L Y/C(LYC)	
7. LOW LIGHT	8. HIGH LIGHT
9. VCO	
11. I2C BUS	12. SYSTEM(SYS)

SELECT BY  

OPERATE BY   EXIT BY 

Fig.1

Setting items	Settings	Item No.
1. V/C (Video setting)	Adjust	S01~S48
2. DEF (Deflection setting)	Adjust	D01~D33
3. SOUND(A) (Audio setting)	Adjust	A01~A08
4. OTHERS [Do not adjust] (Factory setting)	Fixed	F01~F18
5. 3L Y/C [Do not adjust] (Y/C Separate setting)	Fixed	LYC01~LYC12
7. LOW LIGHT (White balance setting)	Adjust	---
8. HIGH LIGHT (White balance setting)	Adjust	---
9. VCO (VCO setting)	Adjust	---
11. I2C BUS [Do not adjust] (I ² C BUS setting)	Fixed	---
12. SYSTEM (SYS) (System constant setting)	Fixed	SYS01~SYS25

3.2.3 SETTINGS OF FACTORY SHIPMENT

3.2.3.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	CH-02
VOLUME	10

3.2.3.2 REMOTE CONTROL DIRECT OPERATION

Setting item		Setting position
INPUT		TV
CHANNEL		CH-02
VOLUME		10
MUTING		OFF
DISPLAY		OFF
OFF TIMER		OFF
THEATER PRO		OFF
VIDEO STATUS		DYNAMIC
ASPECT		4:3
SOUND	A.H.S	OFF [AV-27F485]
	HYPER SURROUND	OFF [AV-27F475]
	BBE	ON

3.2.3.3 REMOTE CONTROL MENU OPERATION

(1) PICTURE ADJUST

Setting item	Setting position
TINT	0
COLOR	0
PICTURE	+8
BRIGHT	0
DETAIL	+8
COLOR TEMPERATURE	HIGH
NOISE MUTING	ON
VSM	ON

(2) SOUND ADJUST

Setting item	Setting position
BASS	0
TREBLE	0
BALANCE	0
MTS	STEREO
SMART SOUND	OFF

(3) CLOCK / TIMERS

Setting item	Setting position
SET CLOCK	OFF
ON / OFF TIMER	OFF
WORLD CLOCK	Refer to OPERATING INSTRUCTIONS

(4) INITIAL SETUP

Setting item	Setting position
LANGUAGE	ENG.
CLOSED CAPTION	OFF
FRONT PANEL LOCK	OFF
AUTO SHUT OFF	OFF
XDS ID	ON
VIDEO INPUT LABEL	Refer to OPERATING INSTRUCTIONS
V-CHIP	OFF