

JVC

SCHEMATIC DIAGRAMS

COLOR TELEVISION

AV-36F703/Y AV-36F713/Y AV-36F803/Y

CD-ROM No.SML200207

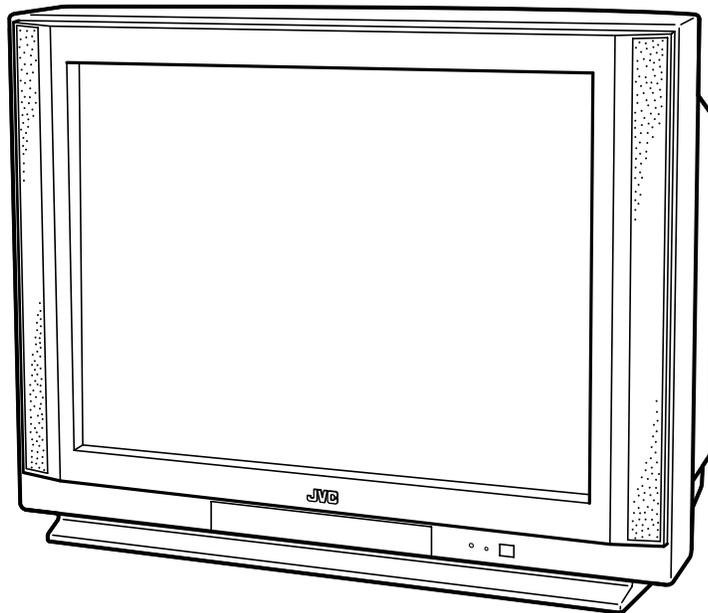
BASIC CHASSIS

GJ

BBE



[RM-C326G] [RM-C325G]
[RM-C326] AV-36F803
AV-36F703
AV-36F713



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CHANNEL CHART (CA)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02	I	
			03		
			04		
			05		
			06		
			07		
	VH	08			
		09			
		10			
		11			
		12			
		13			
		×	○	MID	A 14
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				
	V 35				
	W 36				
○	○		HYPER	W+1 37	III
				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				
	W+21 57				
	W+22 58				
	W+23 59				
	W+24 60				
	W+25 61				
	W+26 62				
	W+27 63				
	W+28 64				
ULTRA	W+29 65				
	W+30 66				
	W+31 67				
	W+32 68				
	W+33 69				
	W+34 70				
IV					

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					
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			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			
					A-4 96			
					A-3 97			
					A-2 98			
					A-1 99			
			○		×	UHF	14	IV
							5	
			TOTAL 180CH { VHF 124CH { UHF 56CH					
			NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.					

AV-36F703/Y, AV-36F713/Y, AV-36F803/Y STANDARD CIRCUIT DIAGRAM

NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the Δ 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 20k Ω /V
- (4) Oscilloscope sweeping time : H \Rightarrow 20 μ S/div
: V \Rightarrow 5mS/div
: Others \Rightarrow 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 \rightarrow R209

4. INDICATIONS ON THE CIRCUIT DIAGRAM

(1) Resistors

- Resistance value

- No unit : { Ω }
- K : {K Ω }
- M : {M Ω }

- 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



* 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
- ⊥ (with slash) : ISOLATED(NEUTRAL) side ground
- ⊥ (with horizontal line) : EARTH ground
- ⊥ (with inverted triangle) : 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) : (⊥ with slash) 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

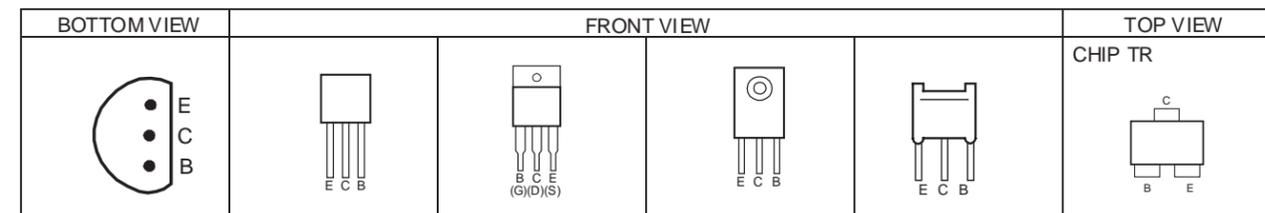
◇ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list. When ordering parts, please use the numbers that appear in the Parts List.

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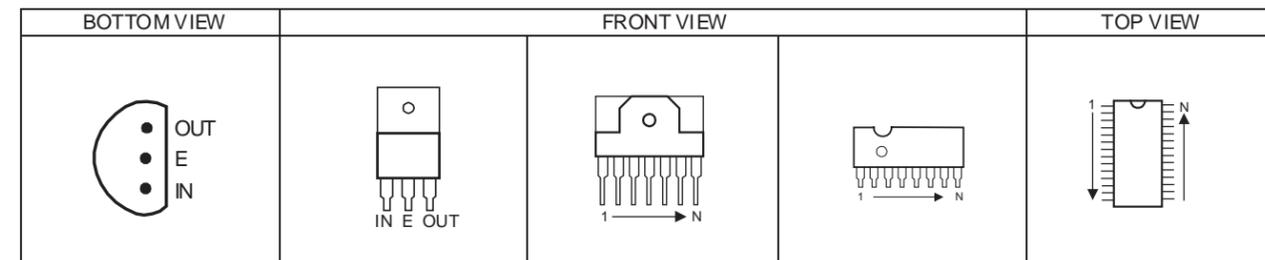
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SEMICONDUCTOR SHAPES

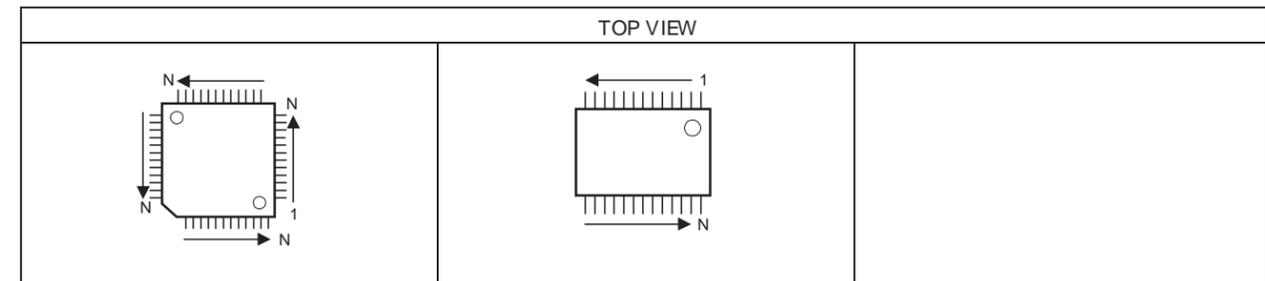
TRANSISTOR



IC



CHIP IC

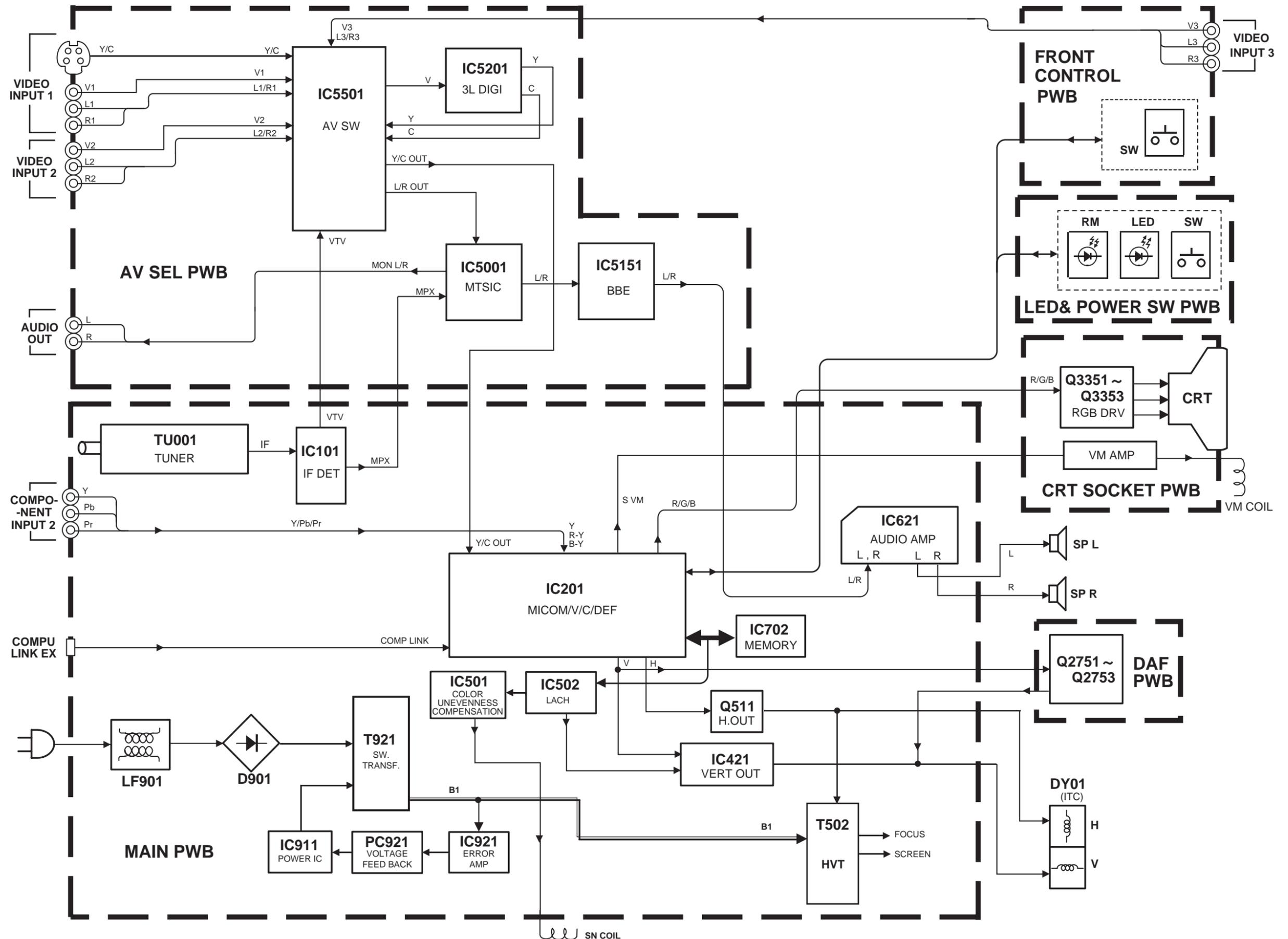


CHANNEL CHART (US)

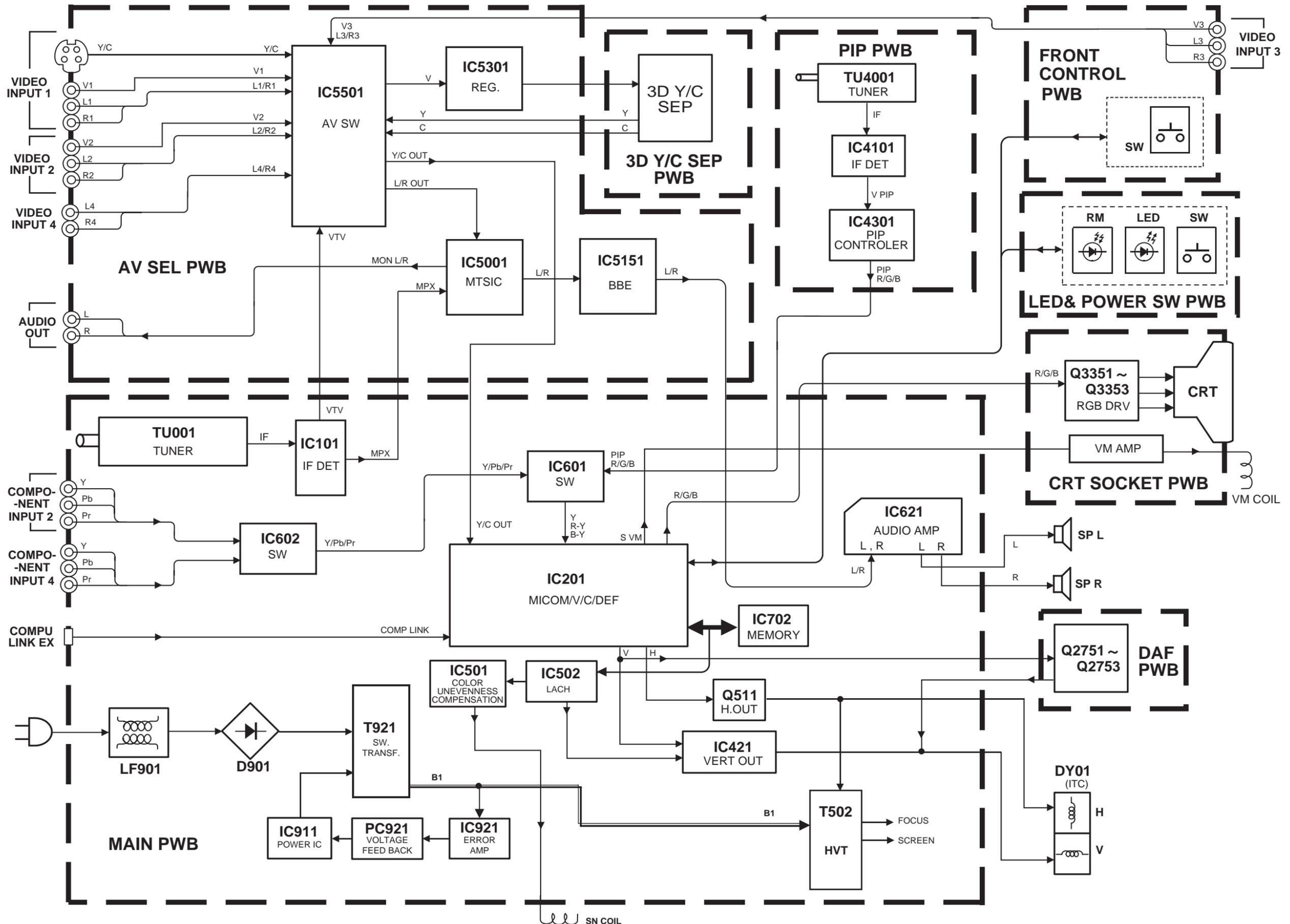
MODE		BAND	CHANNEL		TUNER BAND				
TV	CATV		REAL	DISP.					
○	○	VL	02	I					
			03						
			04						
			05						
			06						
			07						
	○	VH	08	II					
			09						
			10						
			11						
			12						
			13						
			×		○	MID	A	14	I
B	15								
C	16								
D	17								
E	18								
F	19								
G	20								
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								
○	ULTRA					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				
			W+21		57				
			W+22		58				
			W+23		59				
W+24	60								
W+25	61								
W+26	62								
W+27	63								
W+28	64								
○	○	SUB MID	A-8	01	I				
			A-4	96					
			A-3	97					
			A-2	98					
			A-1	99					
			14	69					

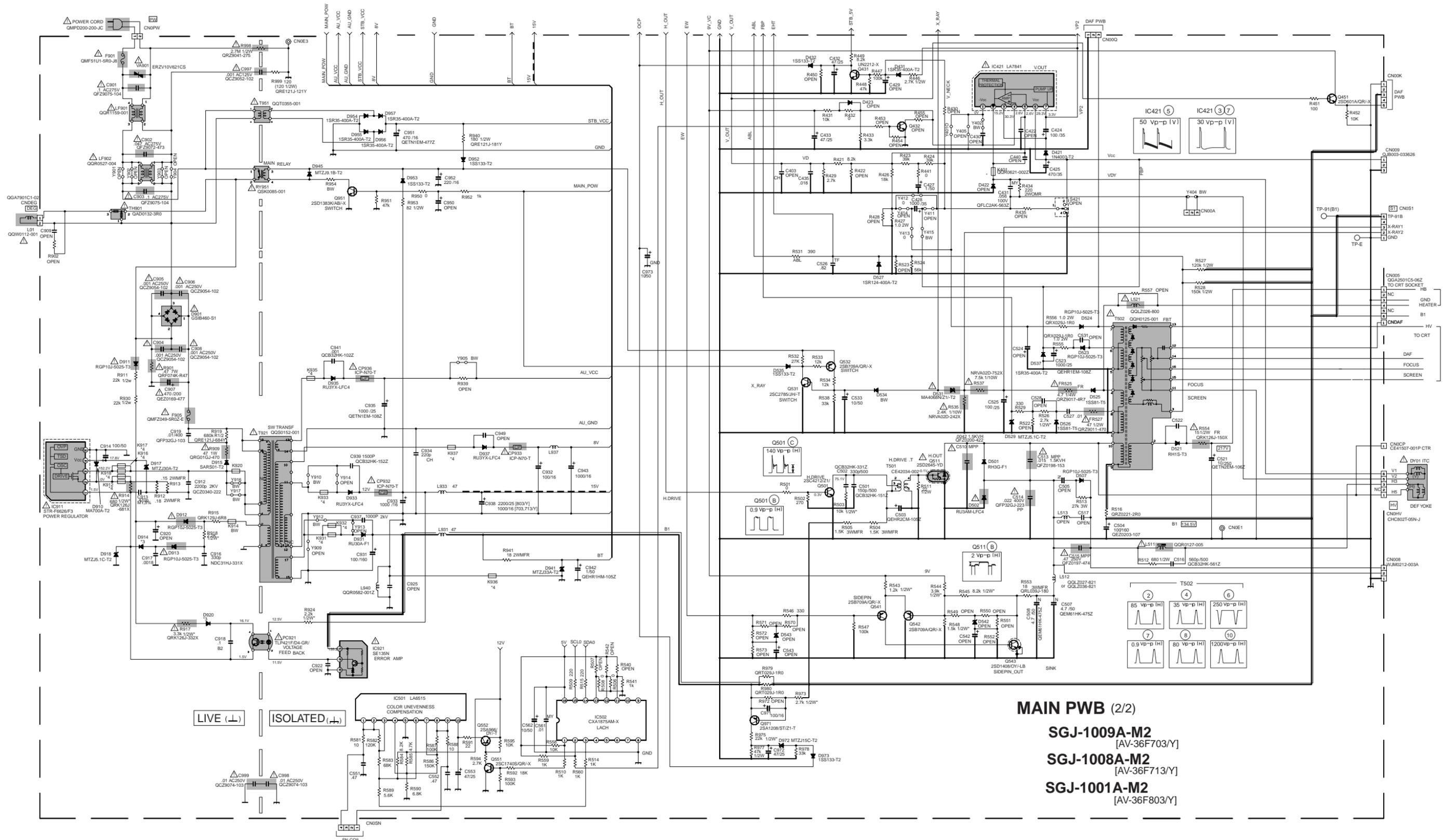
MODE		BAND	CHANNEL		TUNER BAND				
TV	CATV		REAL	DISP.					
×	○	ULTRA	W+35	71	IV				
			W+36	72					
			W+37	73					
			W+38	74					
			W+39	75					
			W+40	76					
			W+41	77					
			W+42	78					
			W+43	79					
			W+44	80					
			W+45	81					
			W+46	82					
			W+47	83					
			W+48	84					
			W+49	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					
			○	×		UHF	14	IV	
							5		
							69		
							TOTAL 180CH		
							{ VHF 124CH { UHF 56CH		
			NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.						

BLOCK DIAGRAM [AV-36F703,AV-36F713]



BLOCK DIAGRAM [AV-36F803]



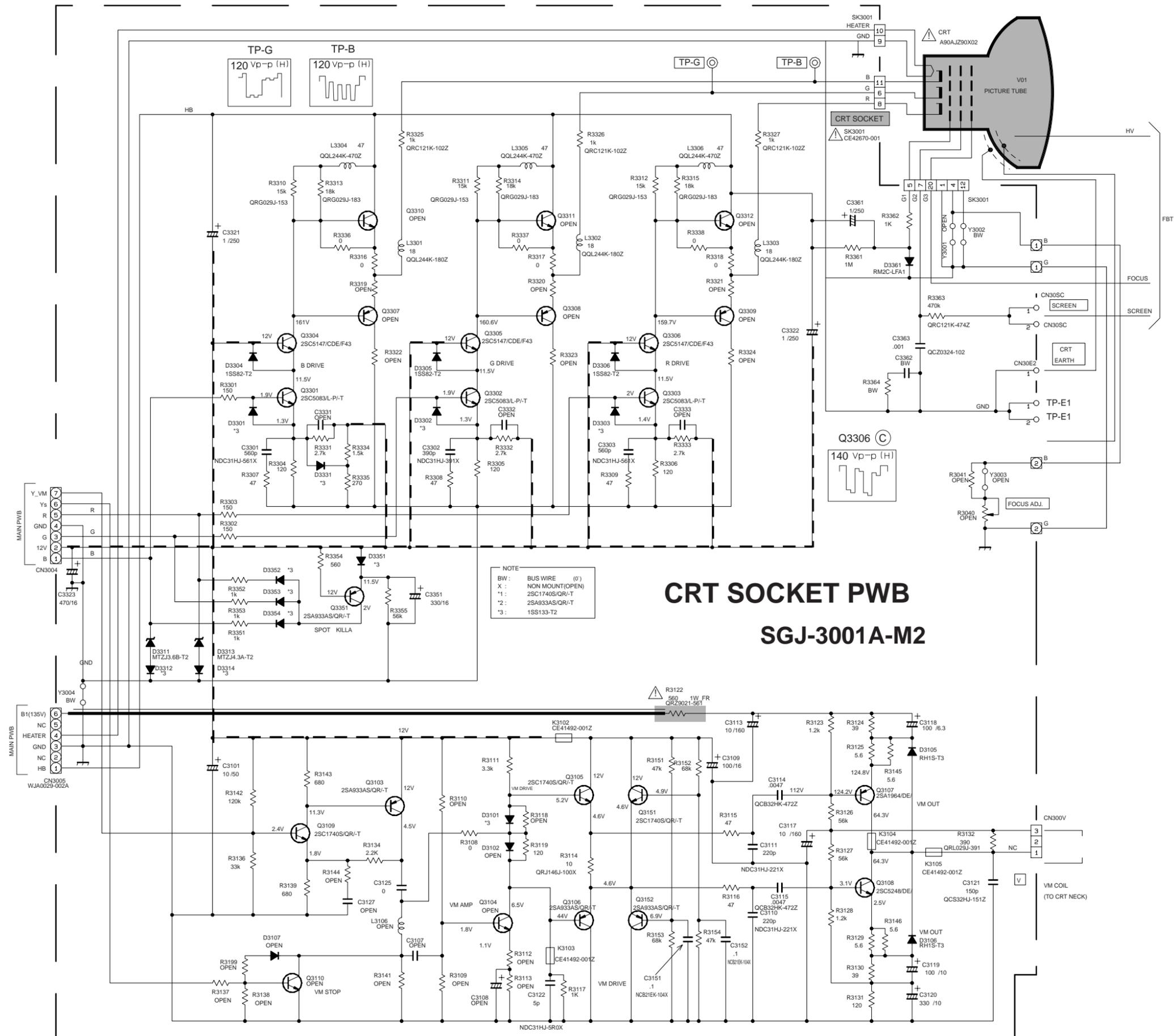


MAIN PWB (2/2)
SGJ-1009A-M2 [AV-36F703/Y]
SGJ-1008A-M2 [AV-36F713/Y]
SGJ-1001A-M2 [AV-36F803/Y]

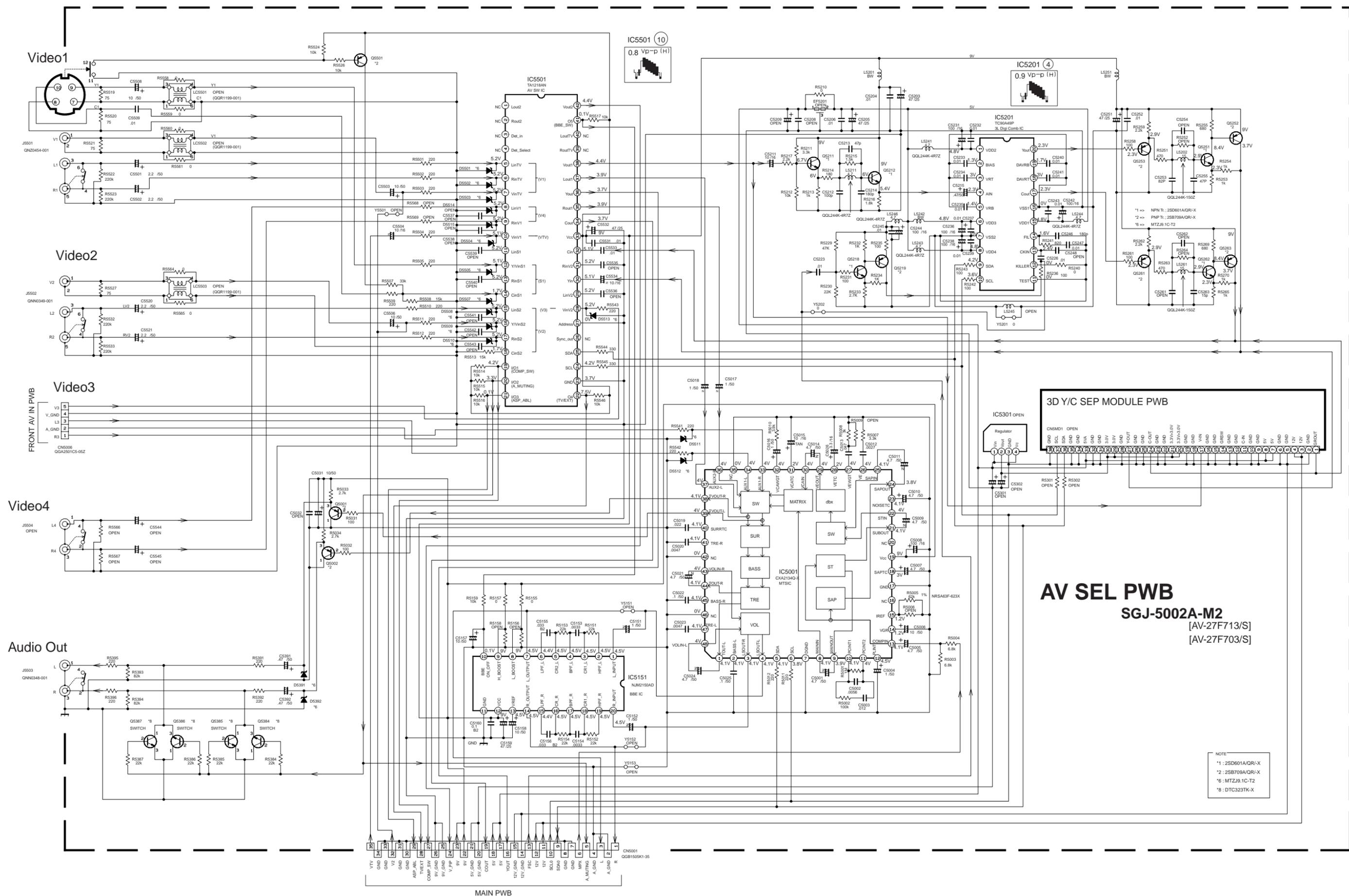
CRT SOCKET PWB CIRCUIT DIAGRAM

AV-36F703
AV-36F713
AV-36F803

AV-36F703
AV-36F713
AV-36F803



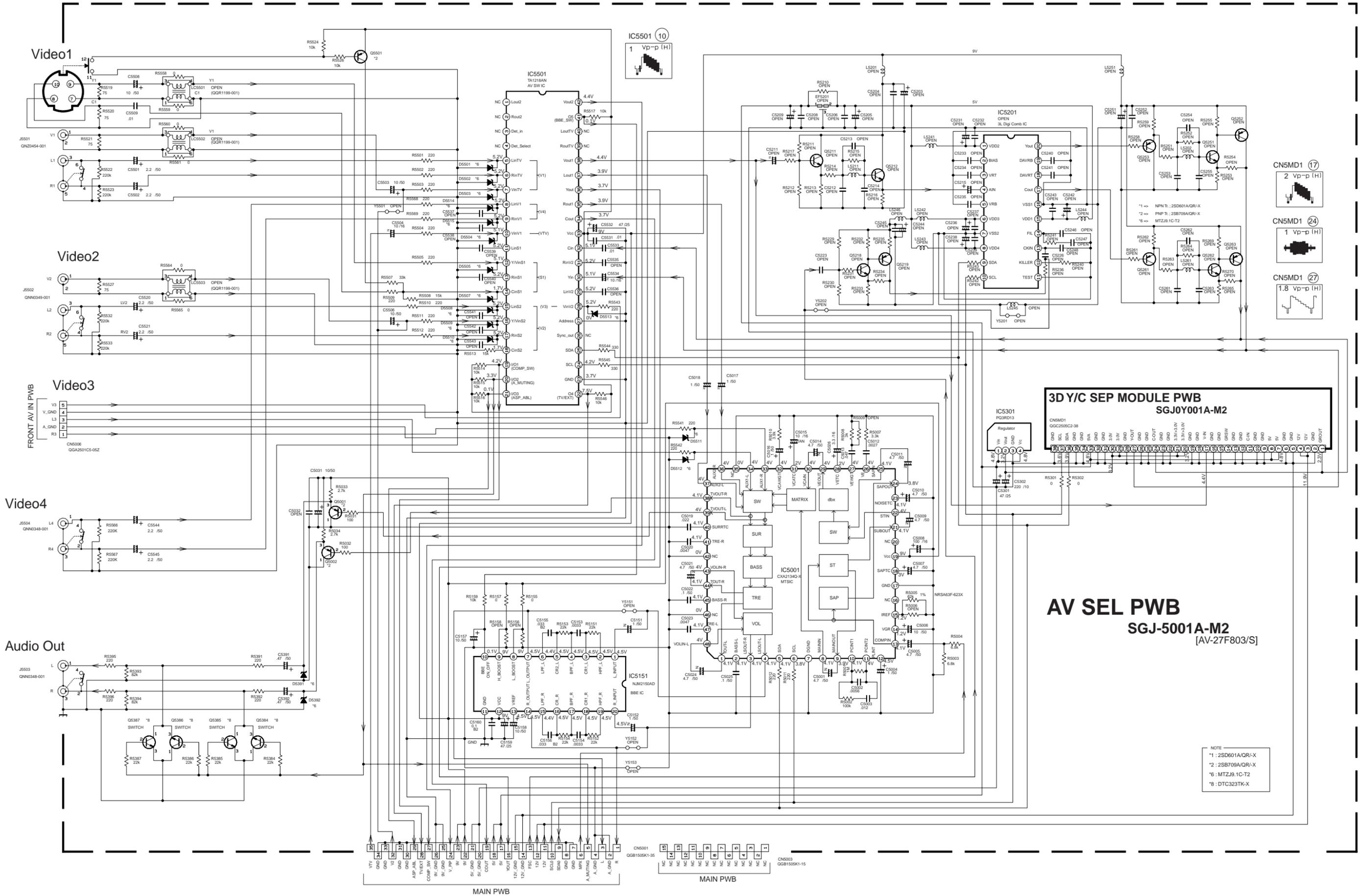
AV SEL PWB CIRCUIT DIAGRAM [AV-36F703,AV-36F713]



AV SEL PWB CIRCUIT DIAGRAM [AV-36F803]

AV-36F803

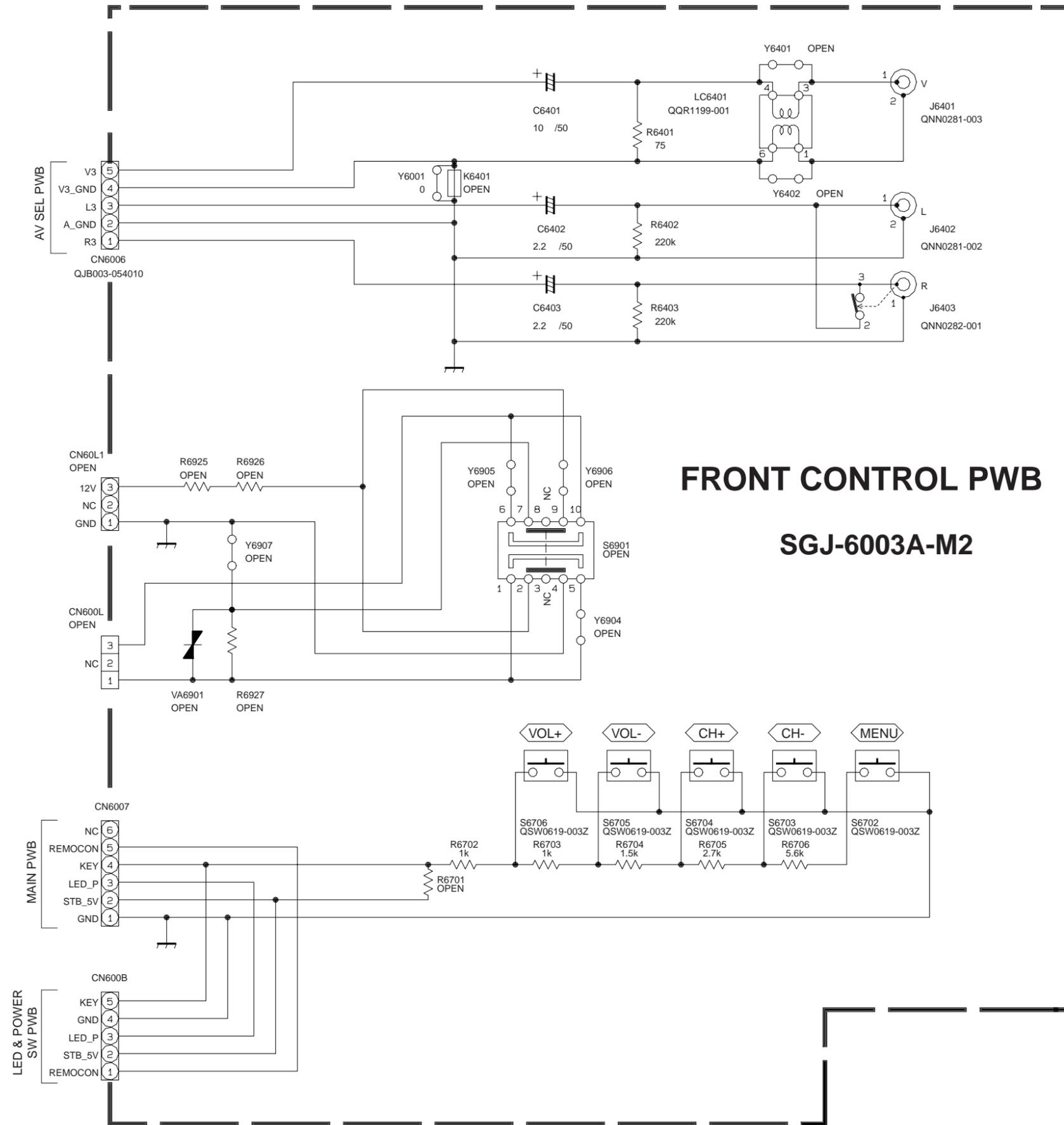
AV-36F803



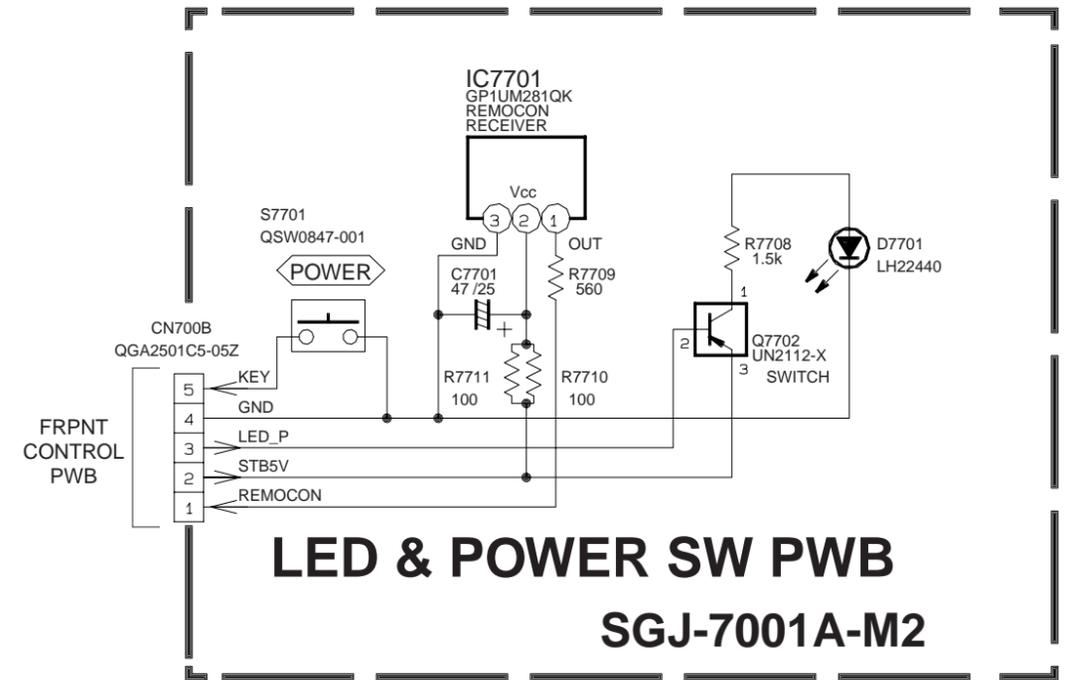
AV SEL PWB
SGJ-5001A-M2
[AV-27F803/S]

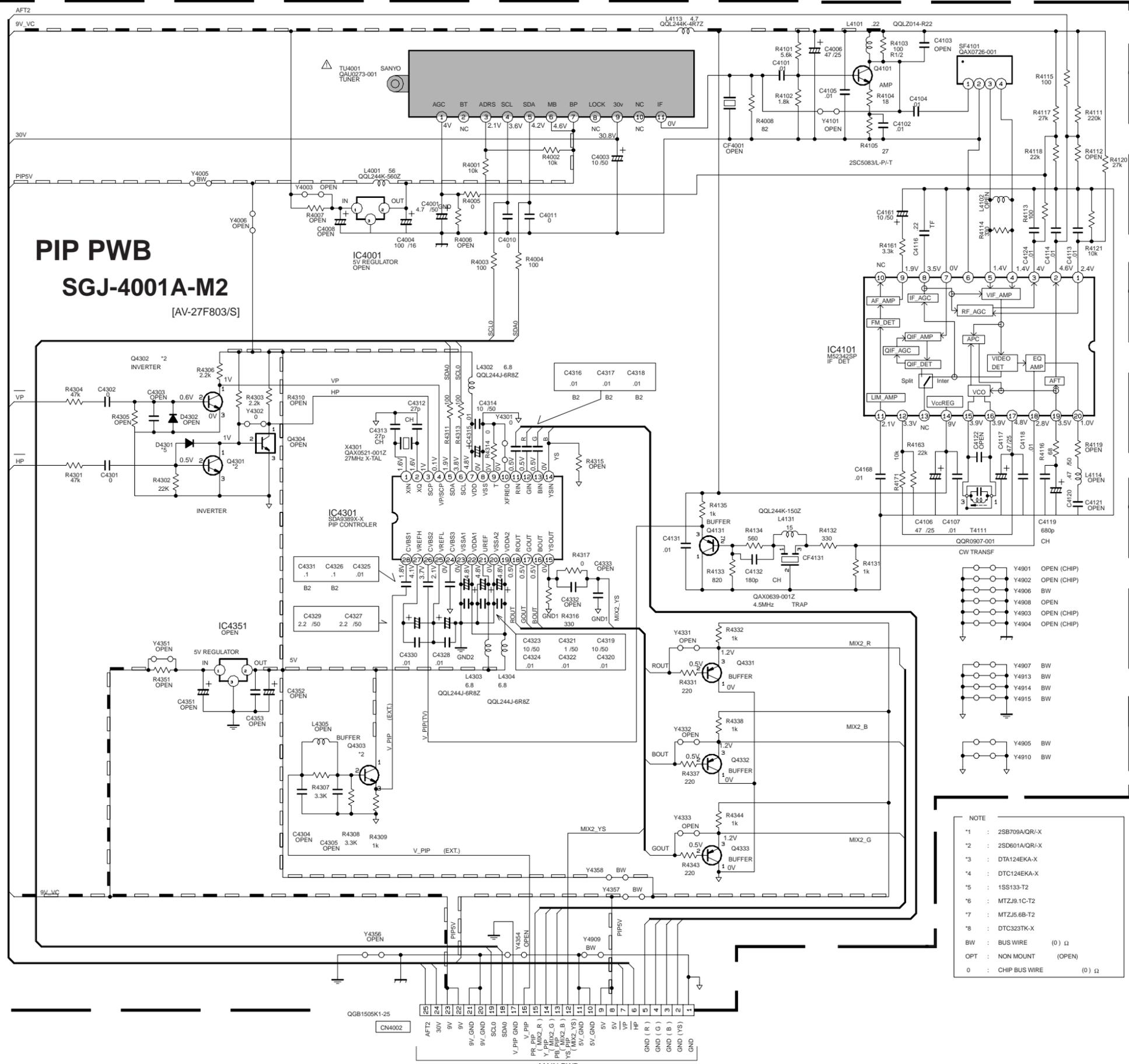
NOTE
 '1' : 2SD601A(QR)-X
 '2' : 2SB709A(QR)-X
 '6' : MTZJ9.1C-T2
 '8' : DTC323TK-X

FRONT CONTROL PWB CIRCUIT DIAGRAM



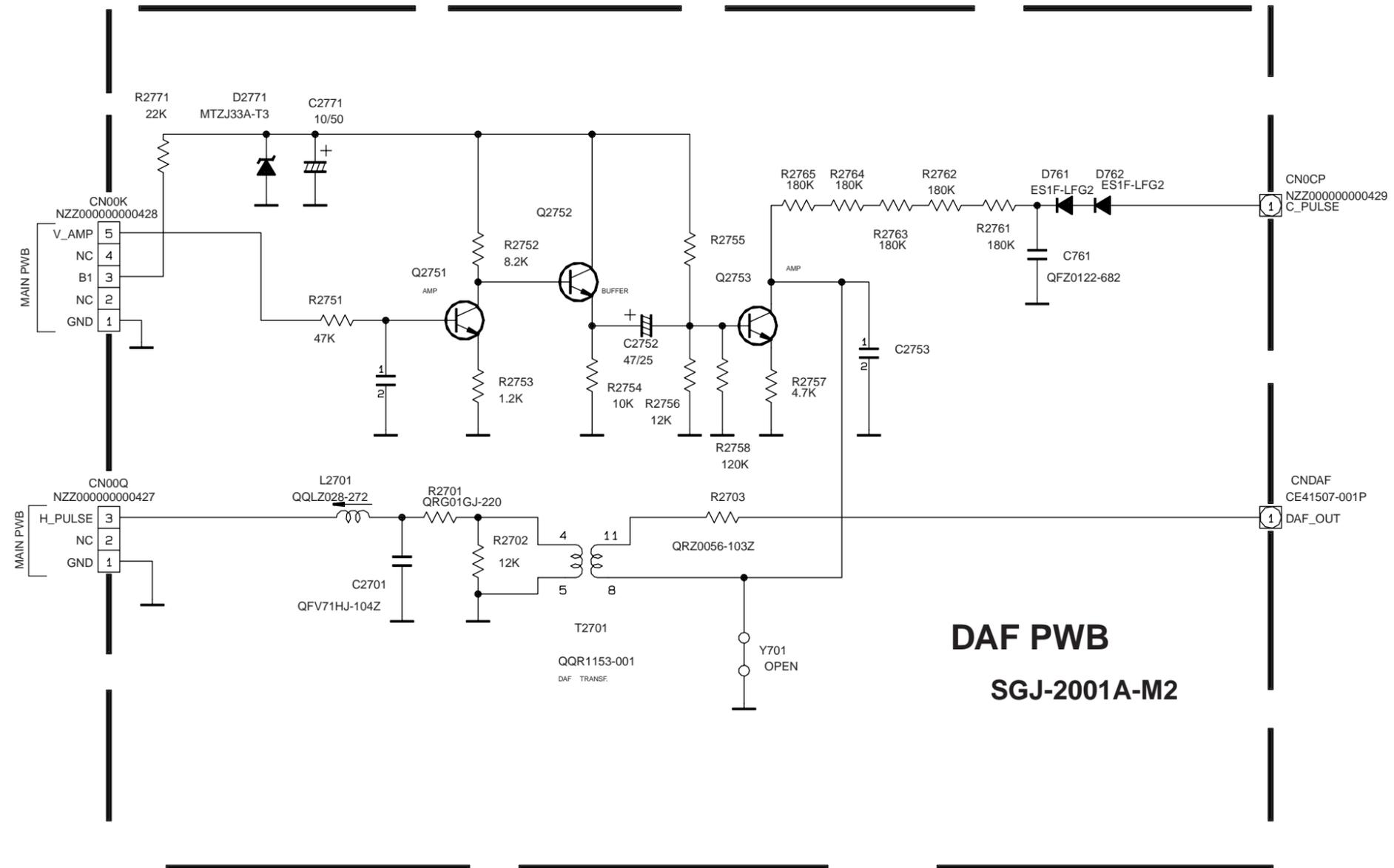
LED & POWER SW PWB CIRCUIT DIAGRAM

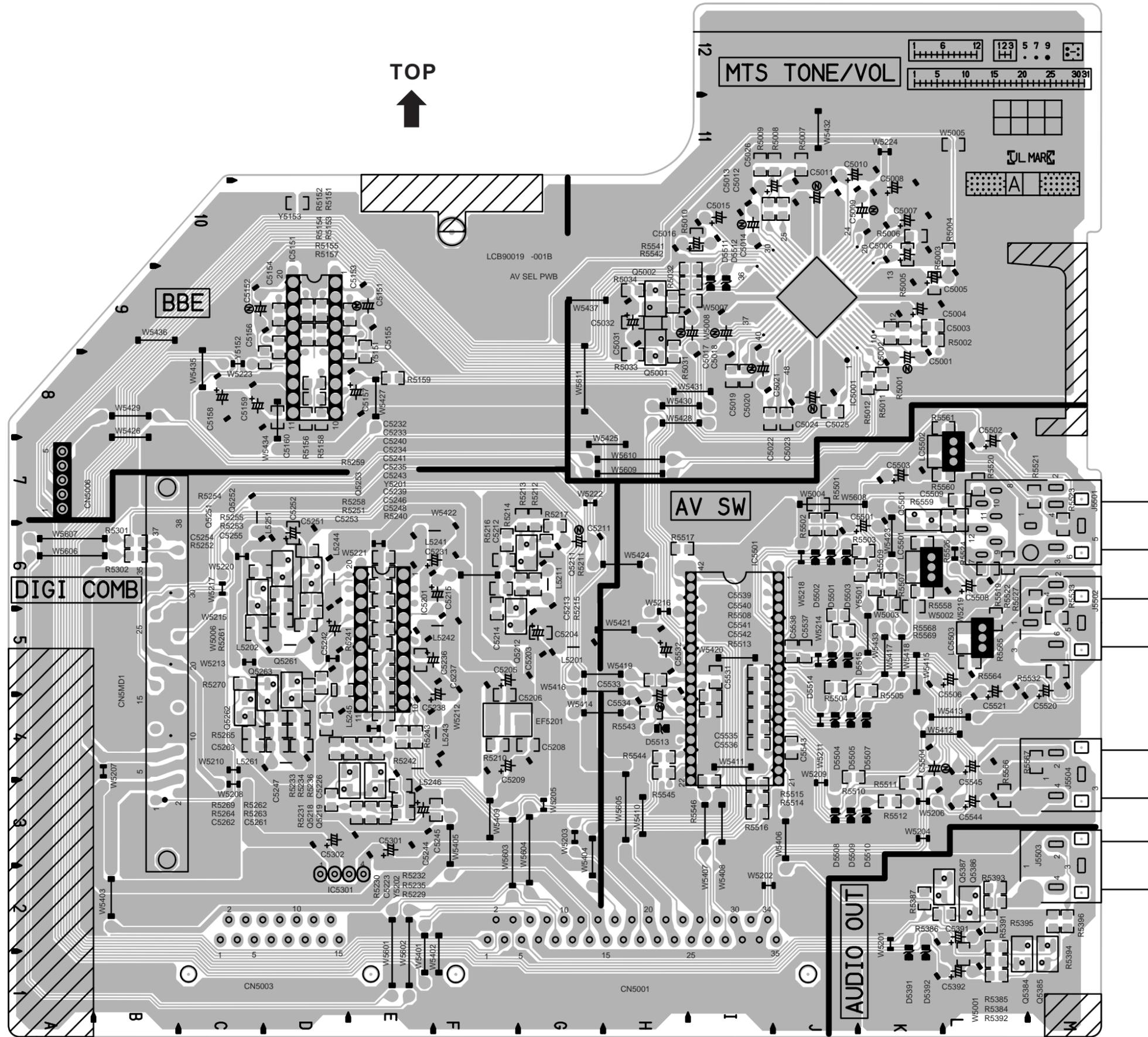


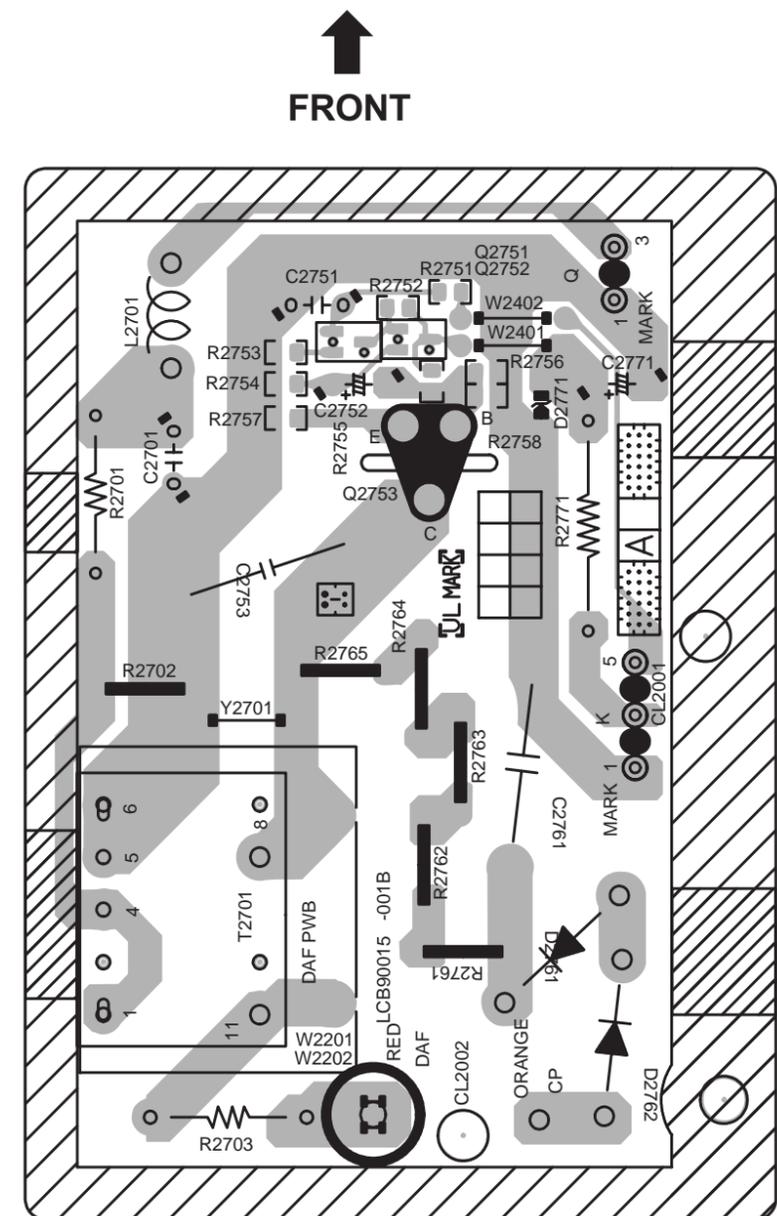
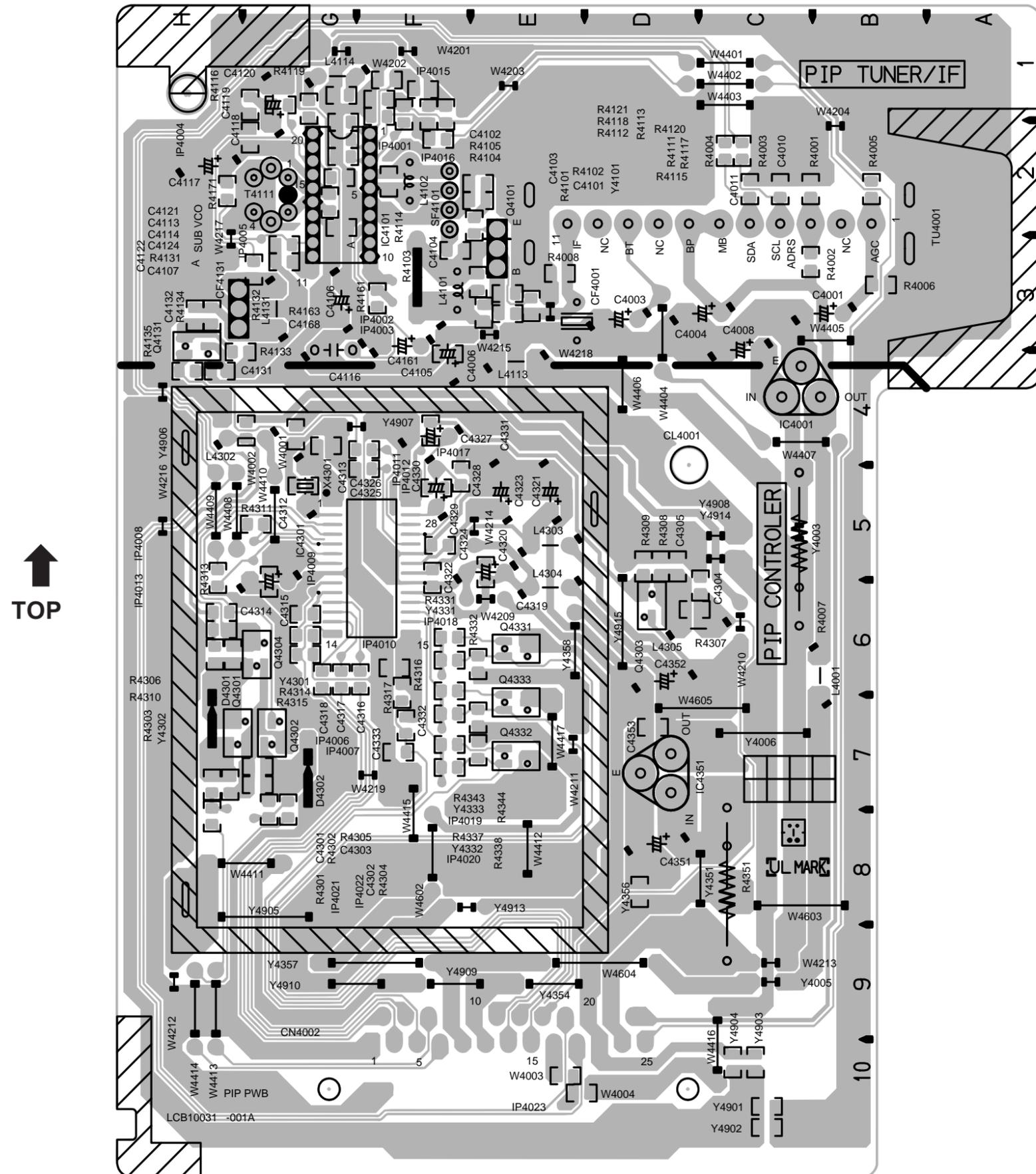


PIP PWB
SGJ-4001A-M2
[AV-27F803/S]

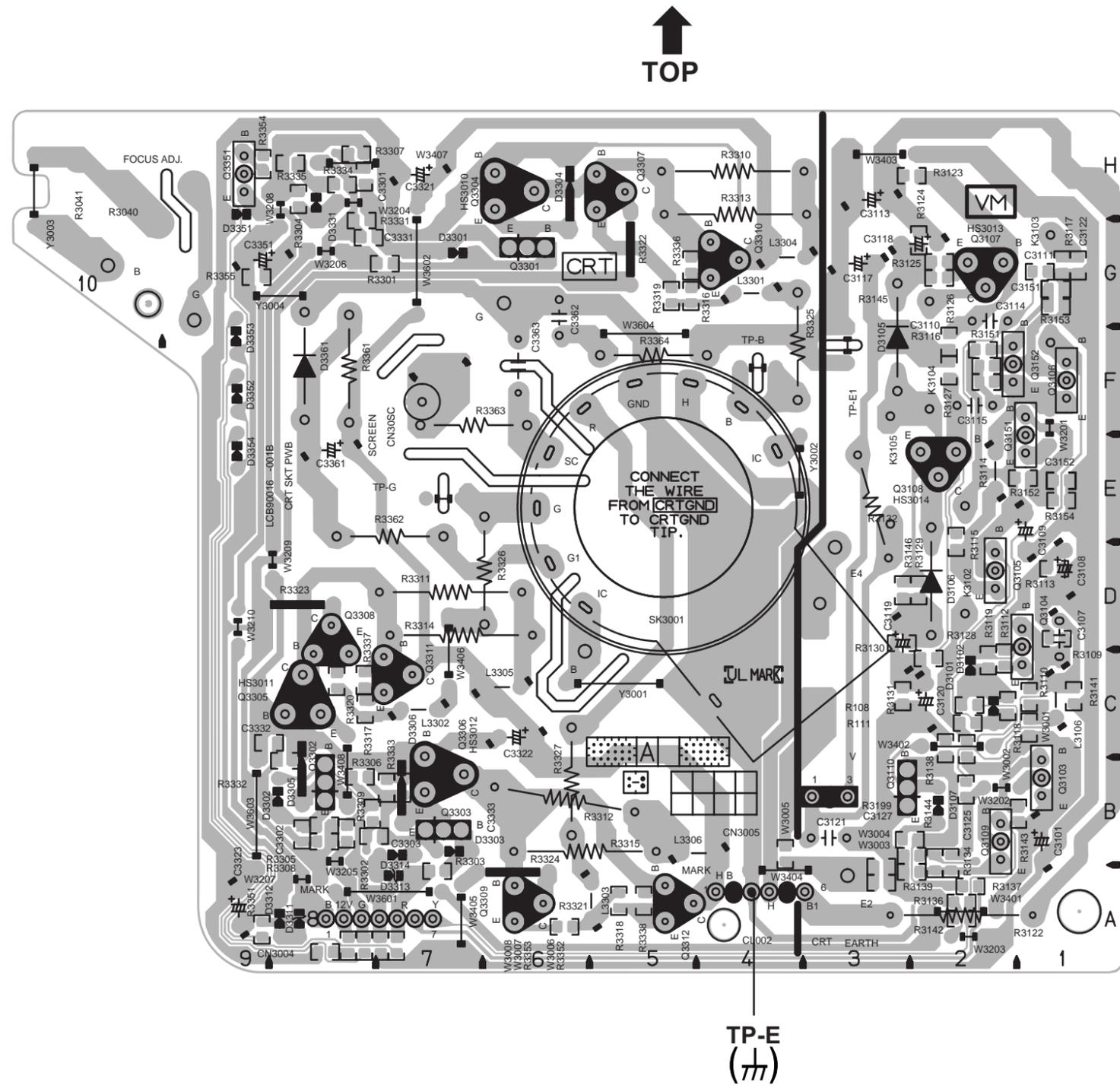
- NOTE
- *1 : 2SB709A/QR/-X
 - *2 : 2SD601A/QR/-X
 - *3 : DTA124EKA-X
 - *4 : DTC124EKA-X
 - *5 : 1SS133-T2
 - *6 : MTZJ9.1C-T2
 - *7 : MTZJ5.6B-T2
 - *8 : DTC323TK-X
 - BW : BUS WIRE (0) Ω
 - OPT : NON MOUNT (OPEN)
 - 0 : CHIP BUS WIRE (0) Ω



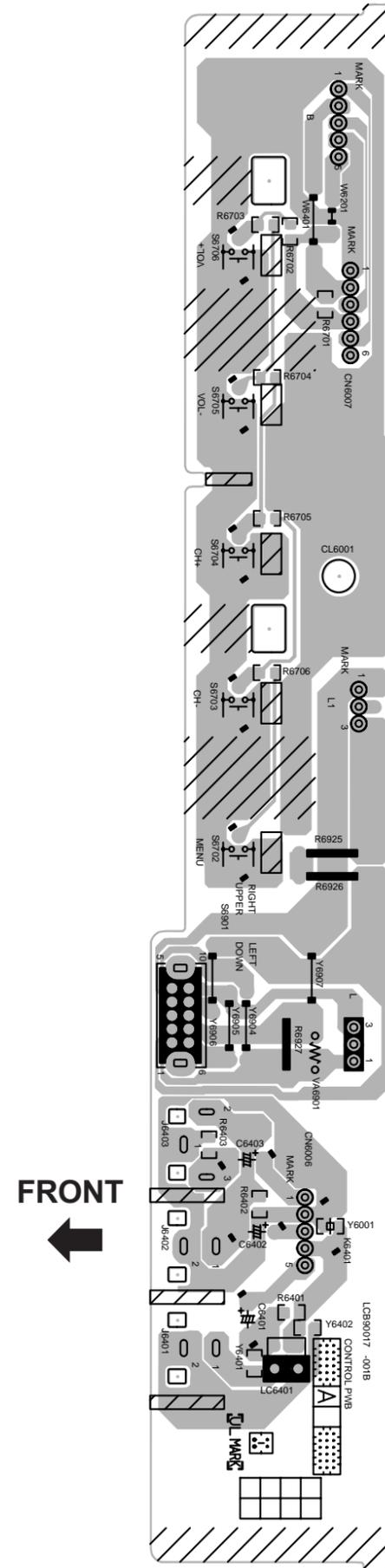




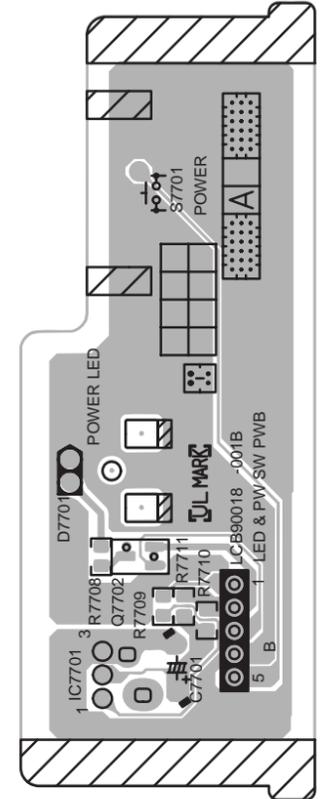
CRT SOCKET PWB PATTERN



FRONT CONTROL PWB PATTERN



LED & POWER SW PWB PATTERN



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