

# JVC

# SCHEMATIC DIAGRAMS

## COLOR TELEVISION

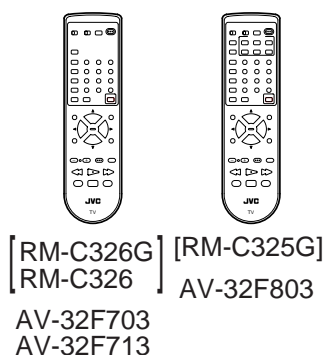
**AV-32F703<sub>/Y</sub>**  
**AV-32F713<sub>/Y</sub>**  
**AV-32F803<sub>/Y</sub>**

CD-ROM No.SML200207

BASIC CHASSIS

GJ

**BBE**



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CHANNEL CHART (CA)

MODE		BAND	CHANNEL		TUNER BAND	
TV	CATV		REAL	DISP.		
○	○	VL	02 03 04 05 06		I	
		VH	07 08 09 10 11 12 13		II	
×	○	MID	A	14		III
			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		
		HYPER	T	33		
			U	34		
			V	35		
			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					
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				

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 5 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.					

AV-32F703/Y,AV-32F713/Y,AV-32F803/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 :{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



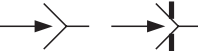
-  :B1  :B2 (12V)
-  :9V  :5V

\* 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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SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW

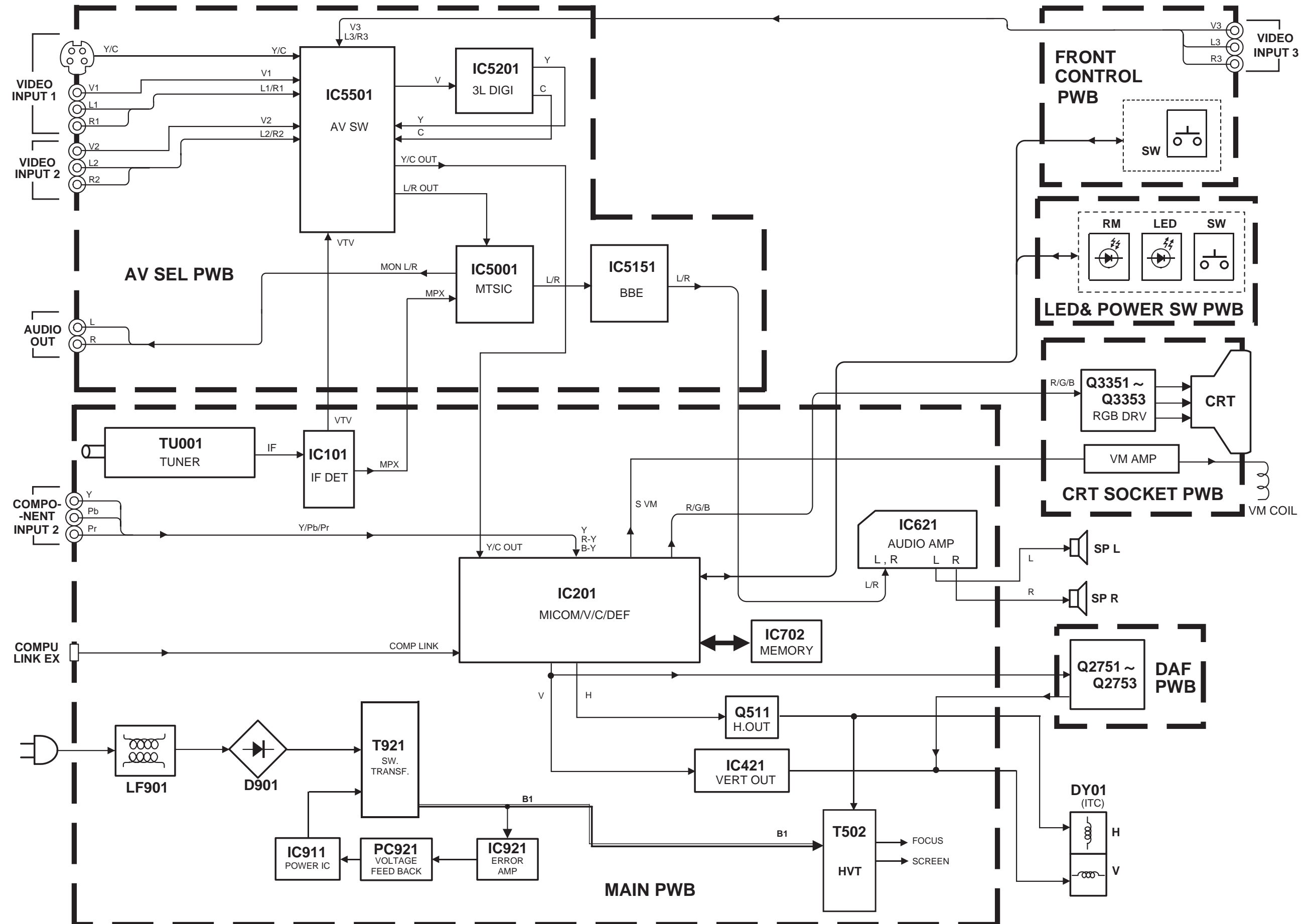
CHIP IC

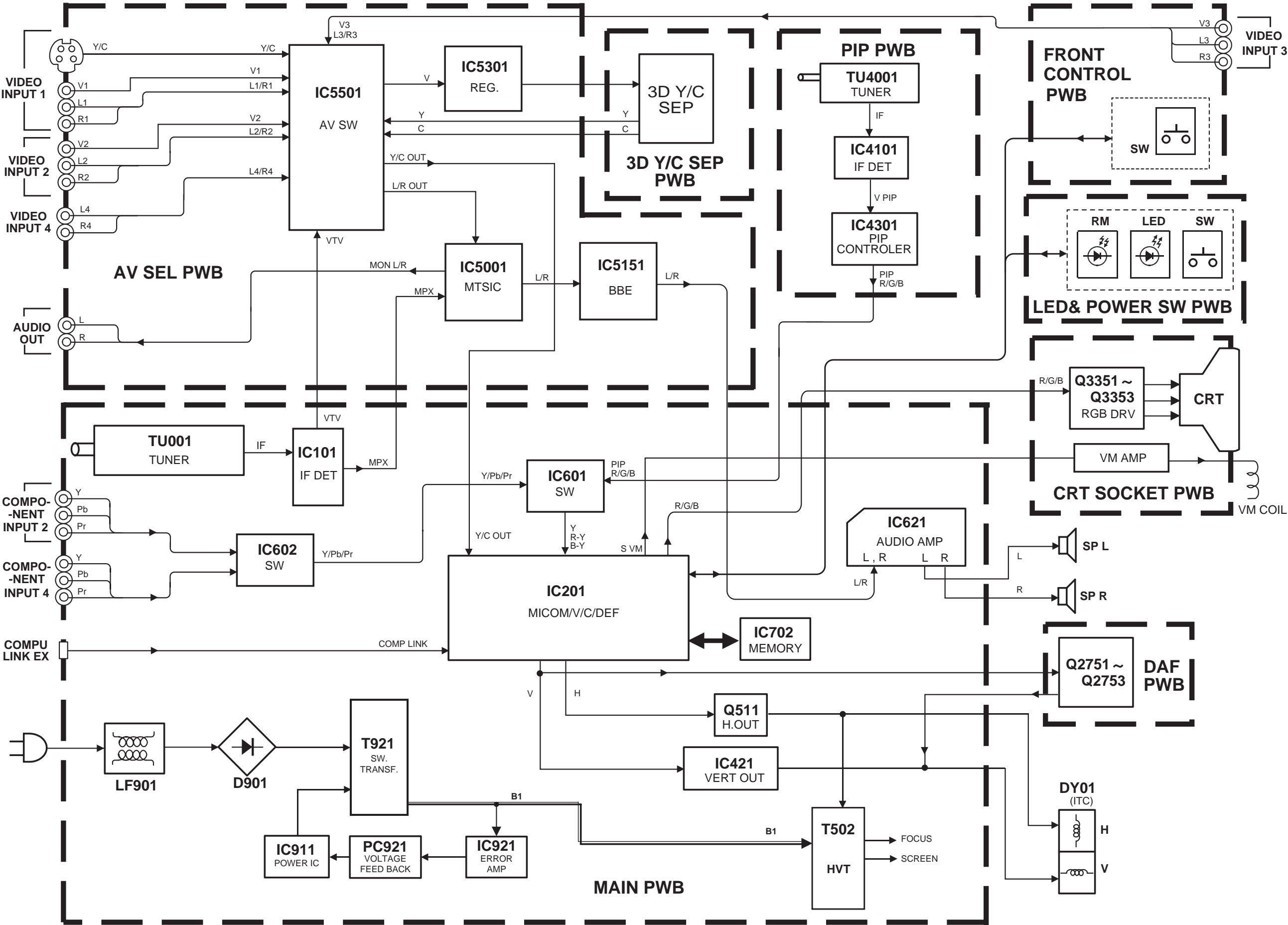
TOP VIEW		

CHANNEL CHART (US)

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

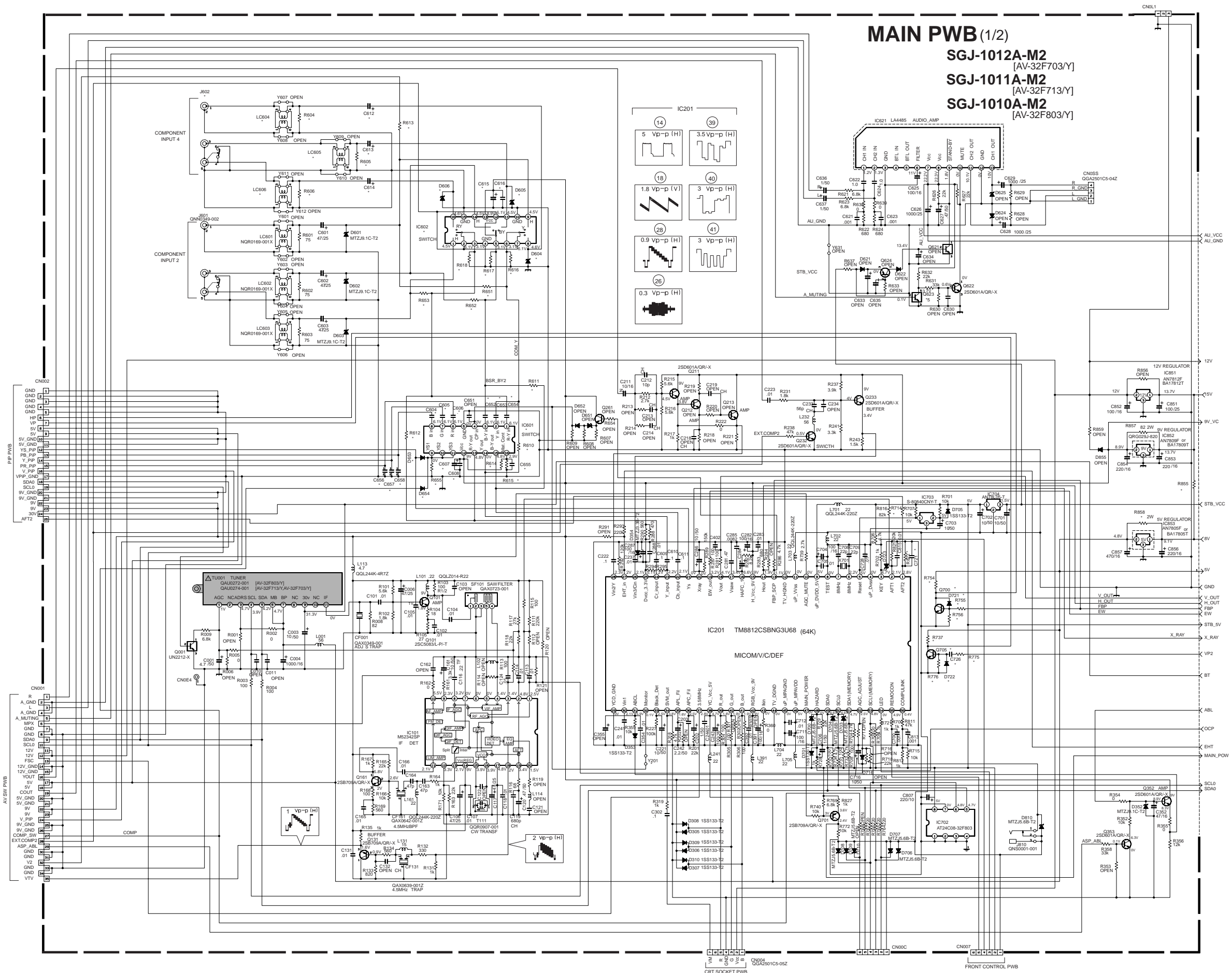
MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35 W+36 W+37 W+38 W+39 W+40 W+41 W+42 W+43 W+44 W+45 W+46 W+47 W+48 W+49 W+50 W+51 W+52 W+53 W+54 W+55 W+56 W+57 W+58 W+59 W+60 W+61 W+62 W+63 W+64 W+65 W+66 W+67 W+68 W+69 W+70 W+71 W+72 W+73 W+74 W+75 W+76 W+77 W+78 W+79 W+80 W+81 W+82 W+83 W+84	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	IV
			A-8 A-4 A-3 A-2 A-1	01 96 97 98 99	
○	×	UHF	14 5 69		IV
TOTAL			180CH { VHF 124CH UHF 56CH		
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**BLOCK DIAGRAM** [AV-32F703,AV-32F713]



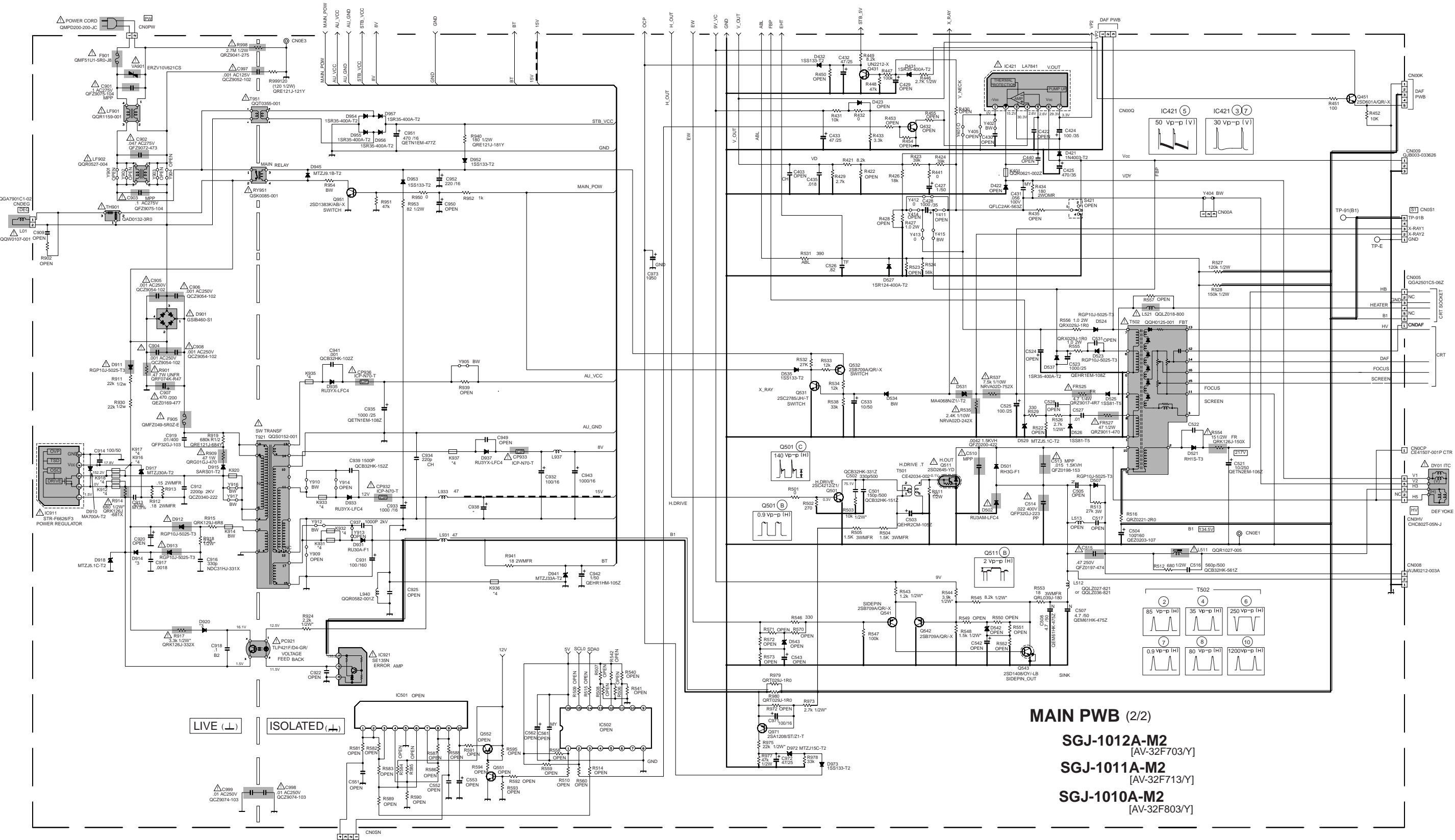


# CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAMS [1/2]



AV-32F703  
AV-32F713  
AV-32F803

AV-32F703  
AV-32F713  
AV-32F803



MAIN PWB (2/2)

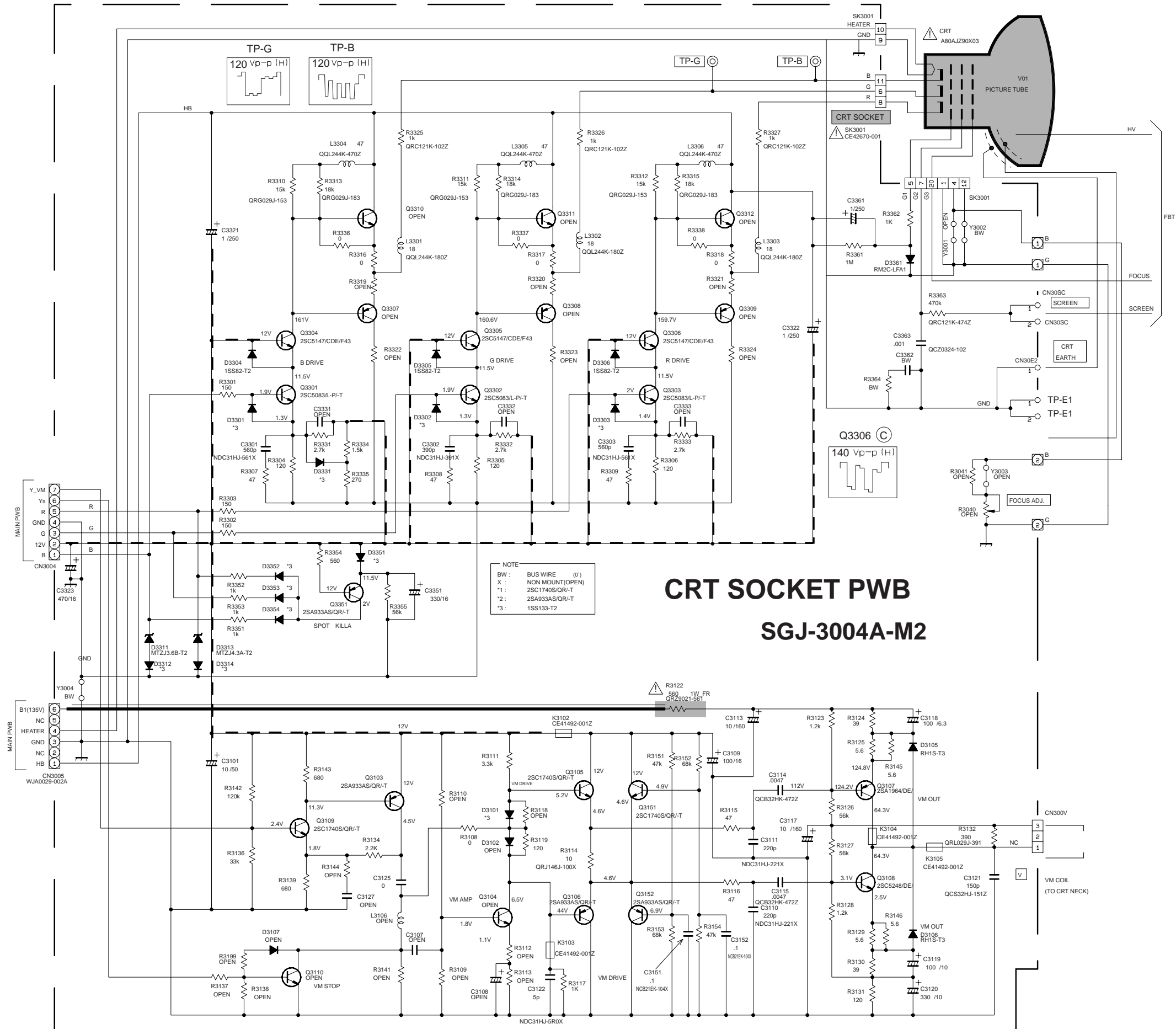
SGJ-1012A-M2  
[AV-32F703/Y]

SGJ-1011A-M2  
[AV-32F713/Y]

SGJ-1010A-M2  
[AV-32F803/Y]

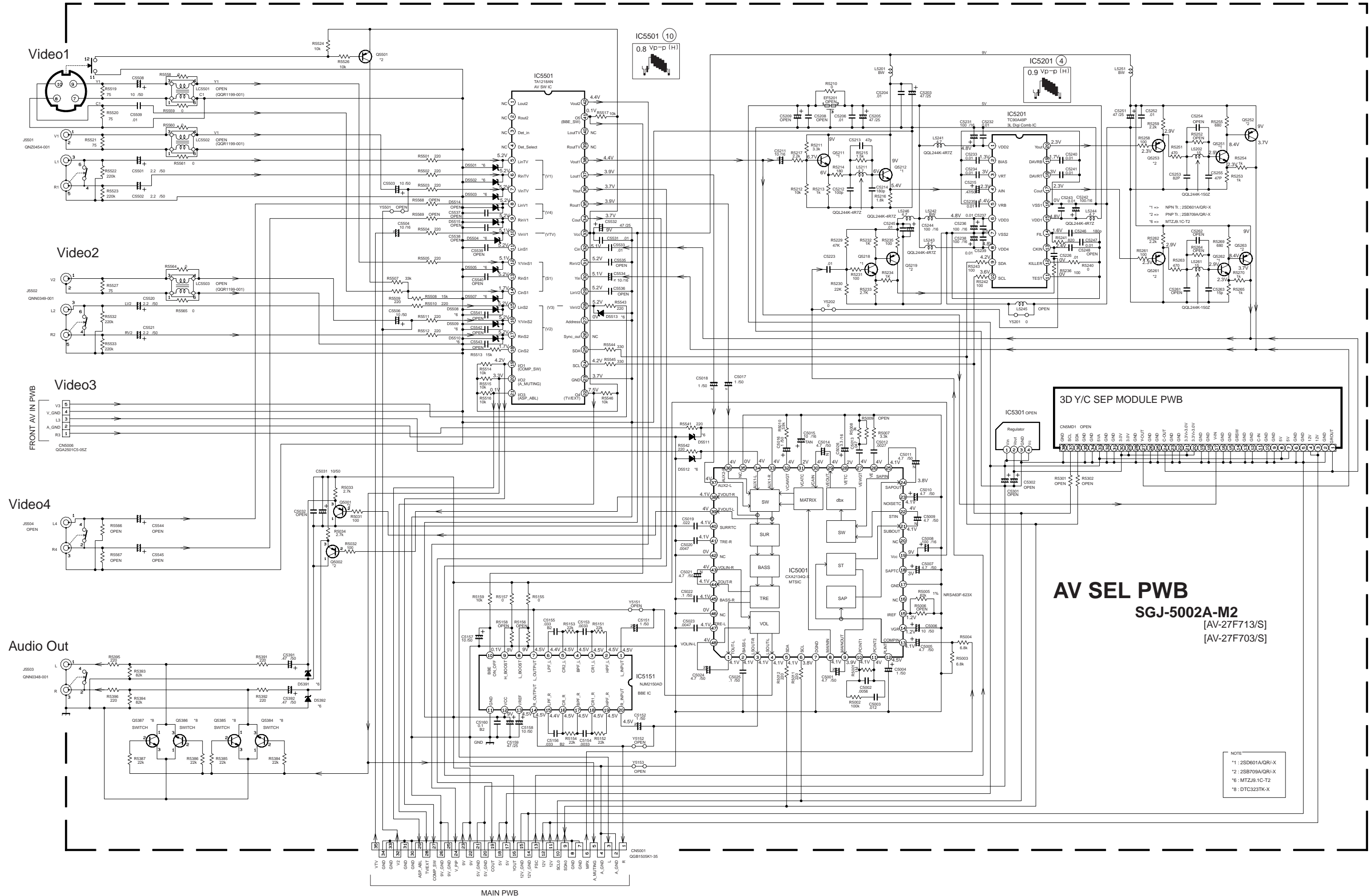
# CRT SOCKET PWB

## SGJ-3004A-M2

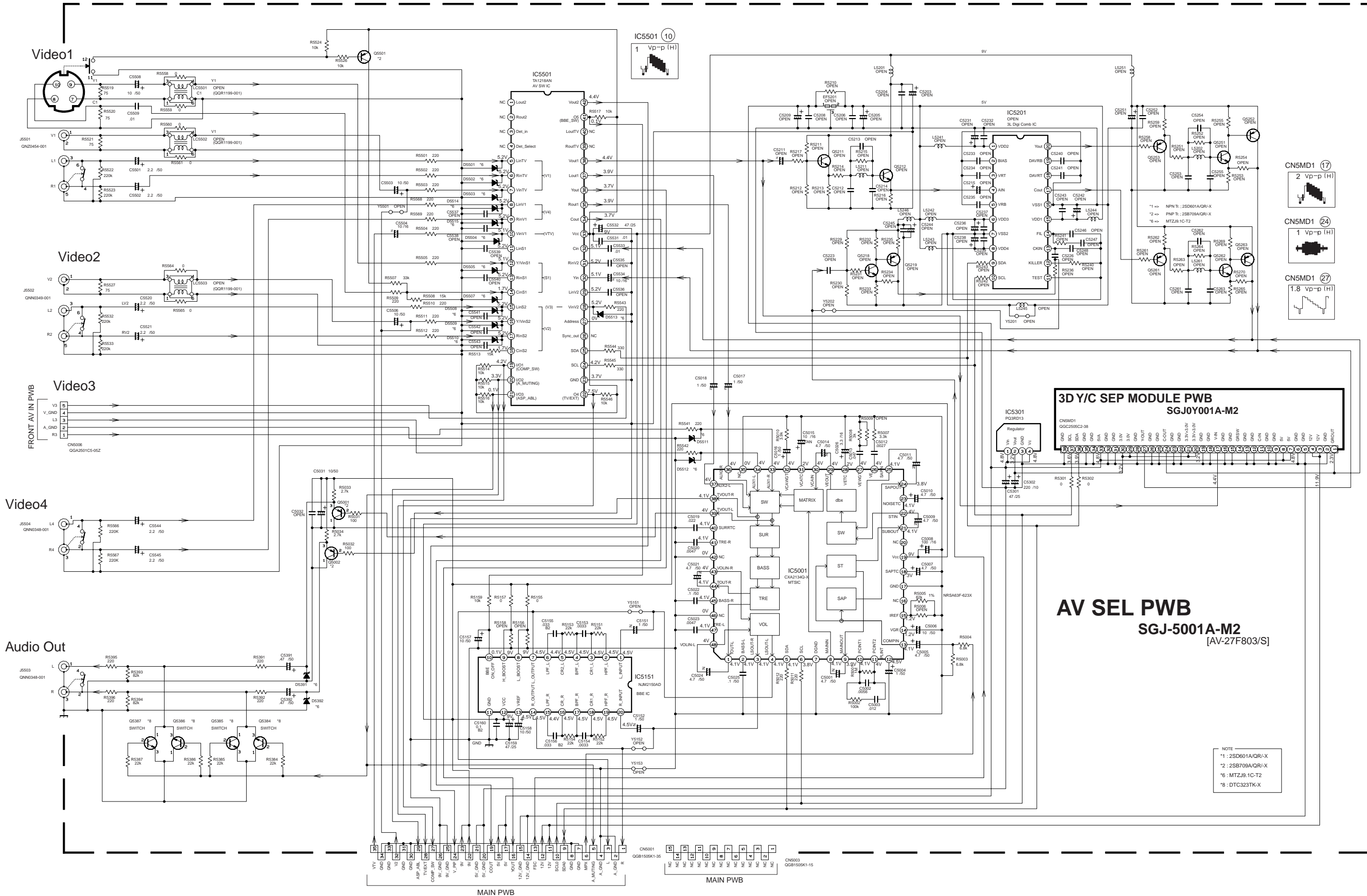




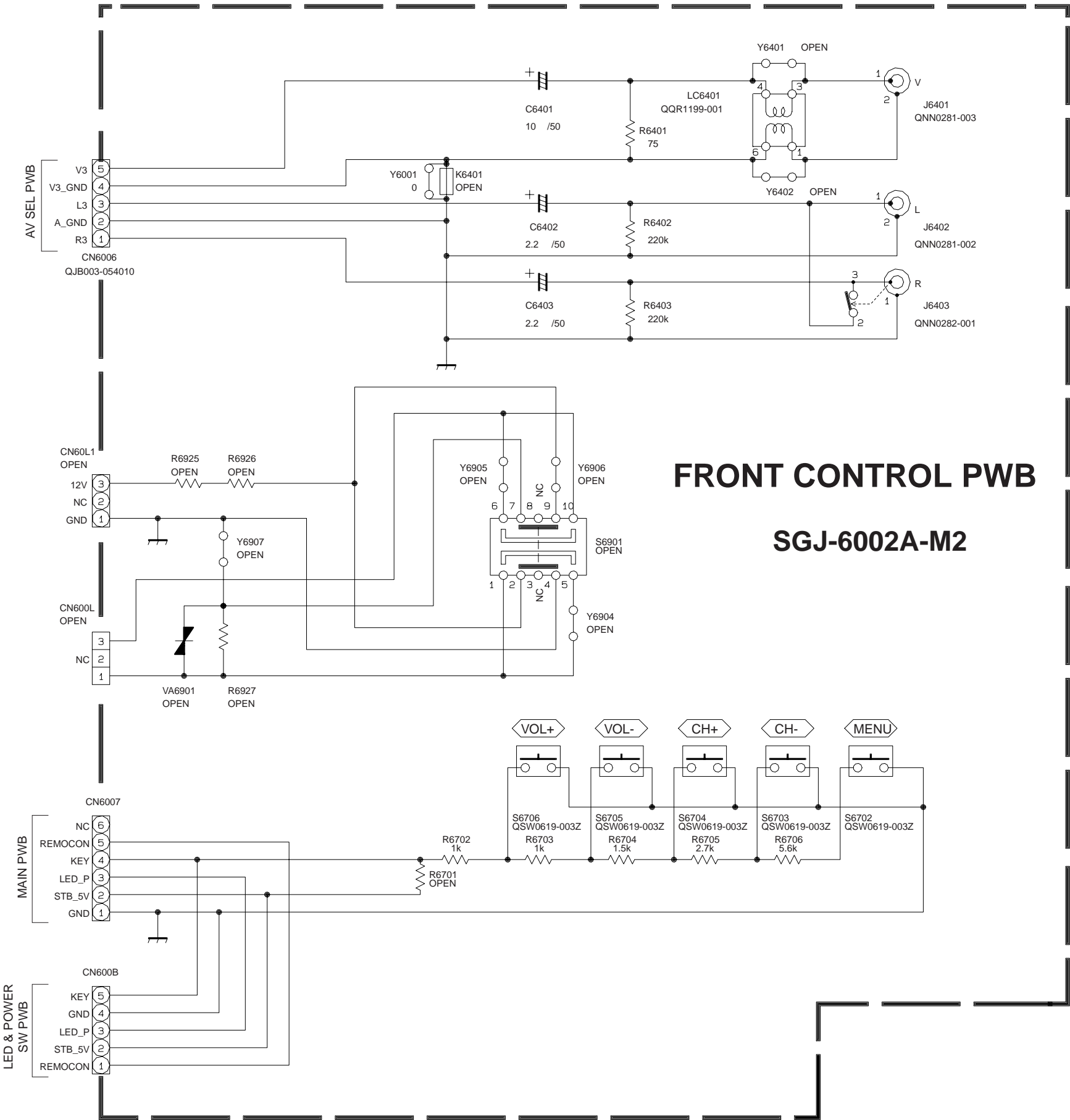
AV SEL PWB CIRCUIT DIAGRAM [AV-32F703,AV-32F713]



AV SEL PWB CIRCUIT DIAGRAM [AV-32F803]



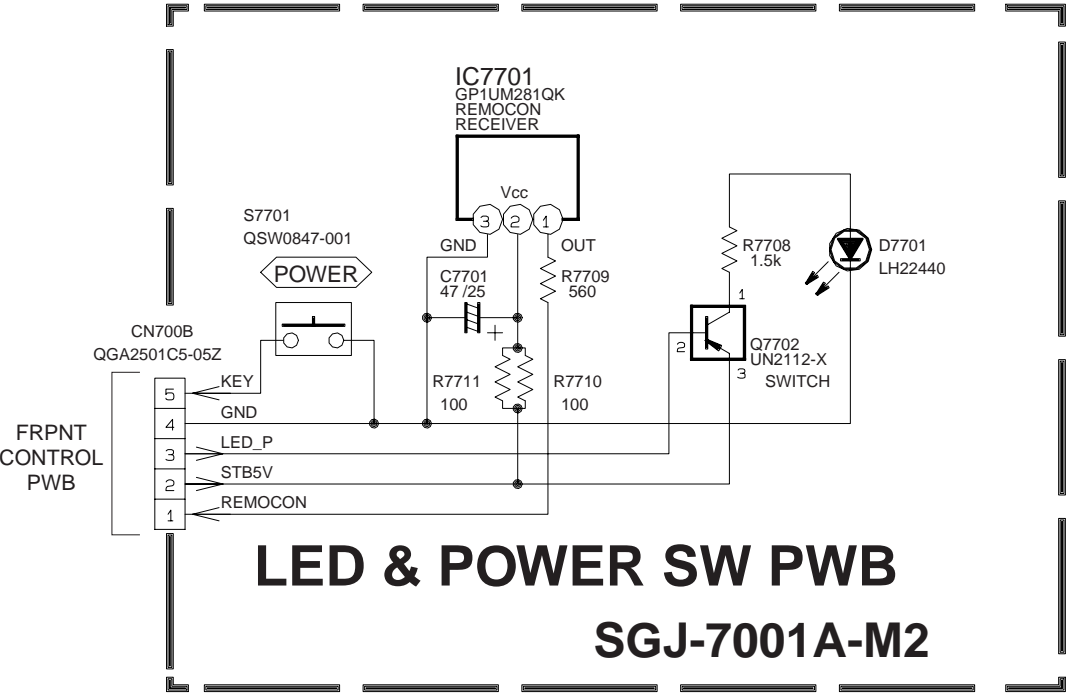
FRONT CONTROLPWB CIRCUIT DIAGRAM

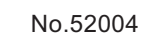


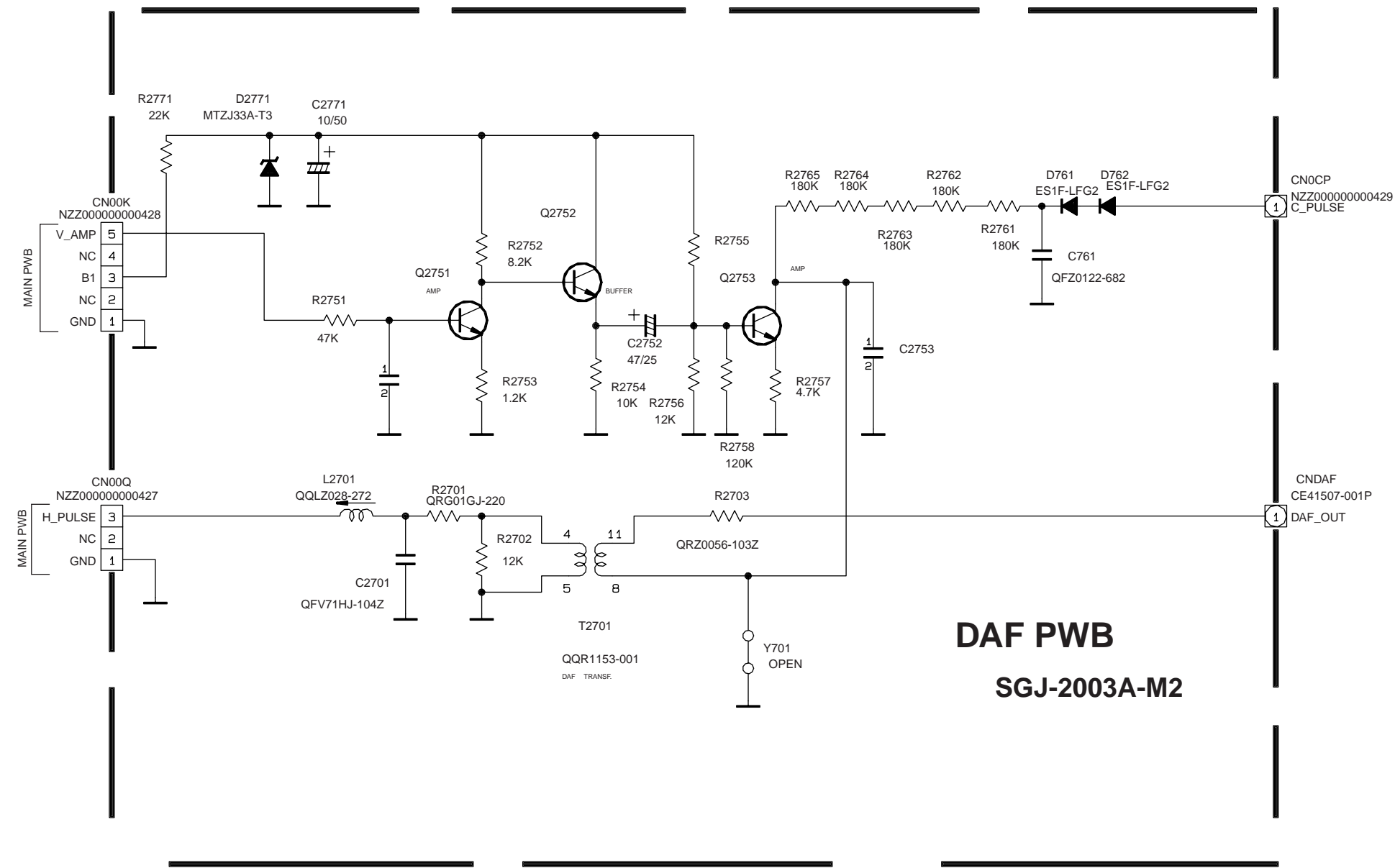
AV-32F703  
AV-32F713  
AV-32F803

AV-32F703  
AV-32F713  
AV-32F803

LED & POWER SW PWB CIRCUIT DIAGRAM







DAF PWB  
SGJ-2003A-M2

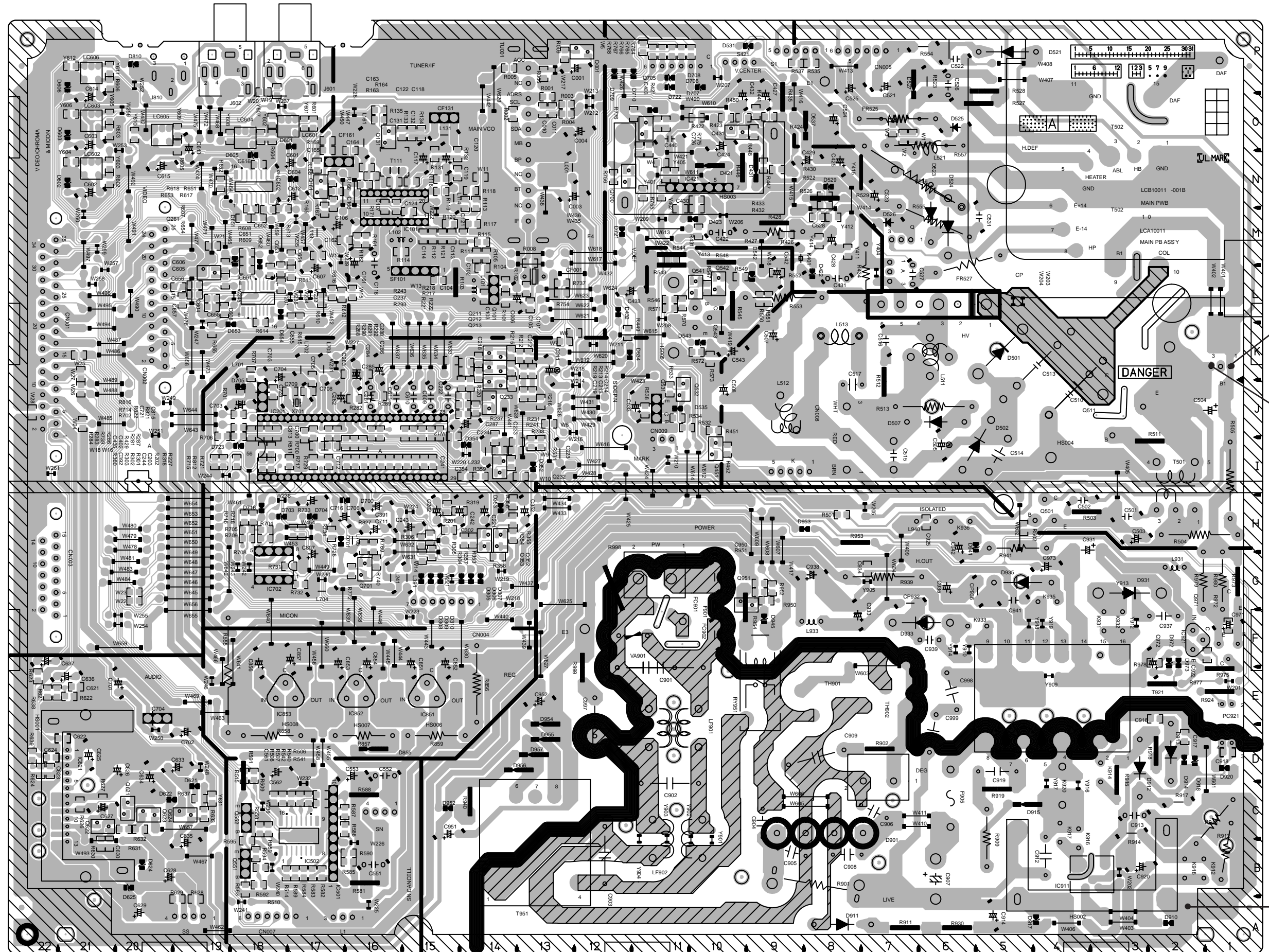


AV-32F703  
AV-32F713  
AV-32F803

AV-32F703  
AV-32F713  
AV-32F803

PATTERN DIAGRAMS MAIN PWB PATTERN

FRONT



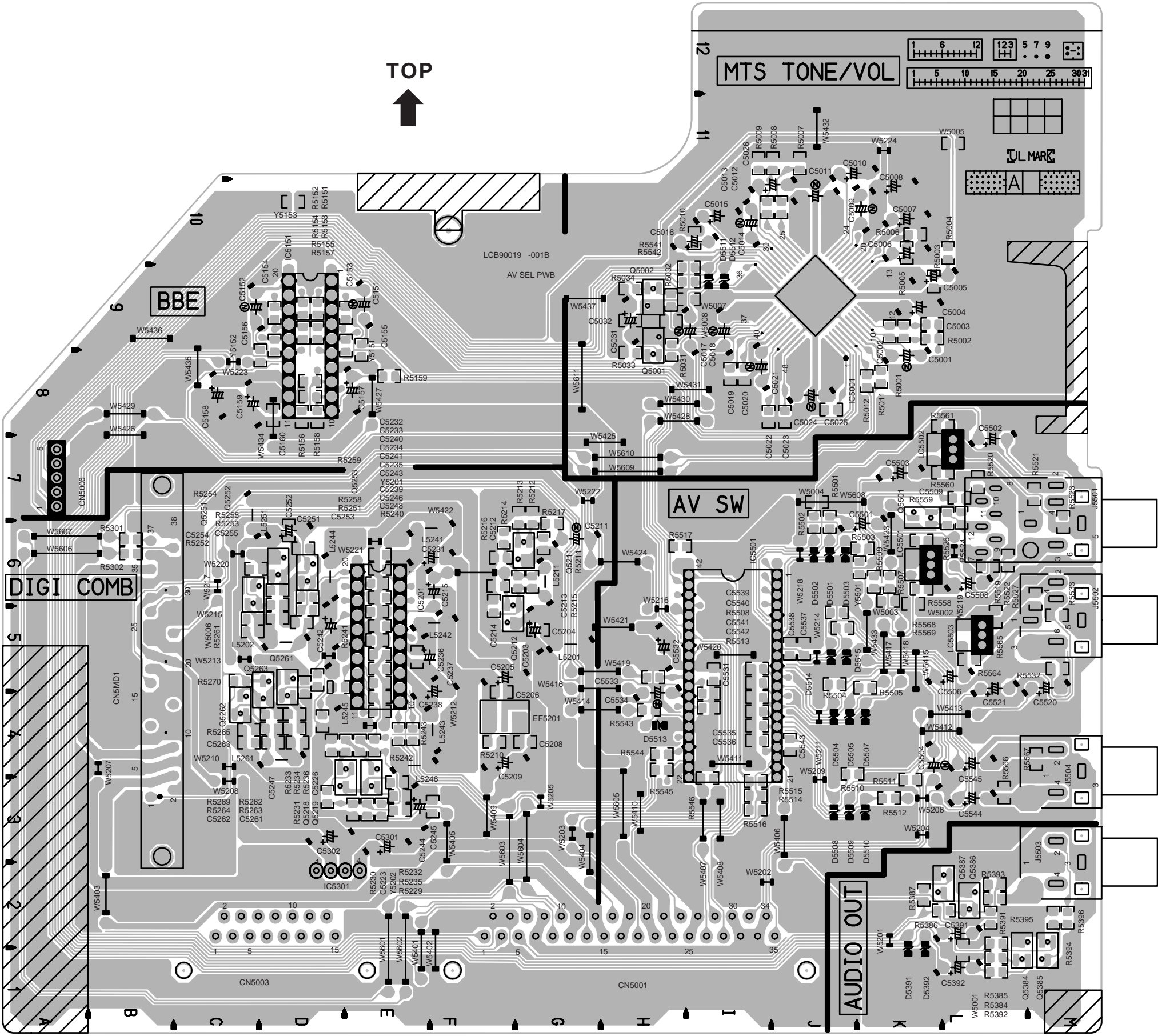
TP-91  
(B1)

TP-E  
( $\pi$ )

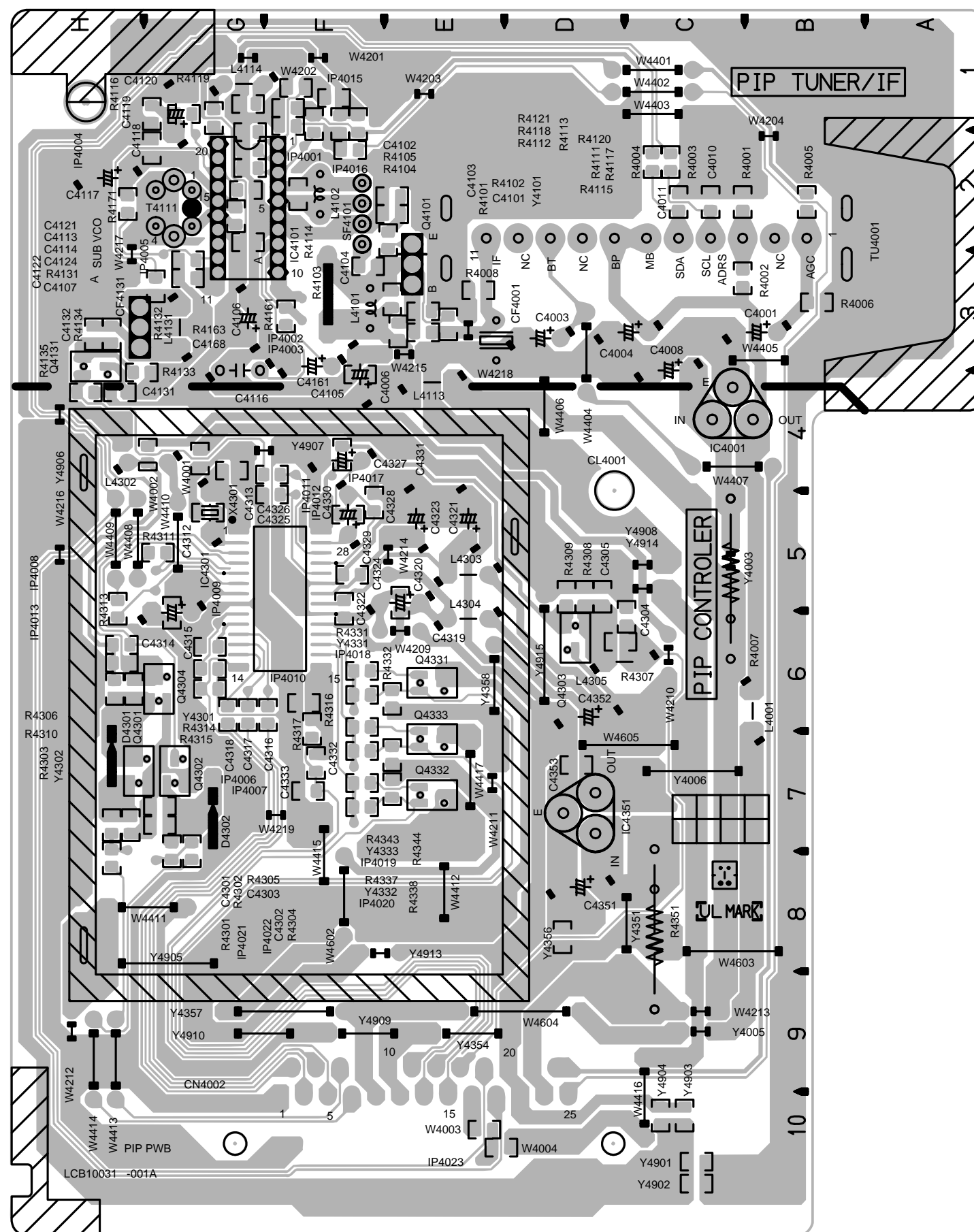
(T)

AV-32F703  
AV-32F713  
AV-32F803

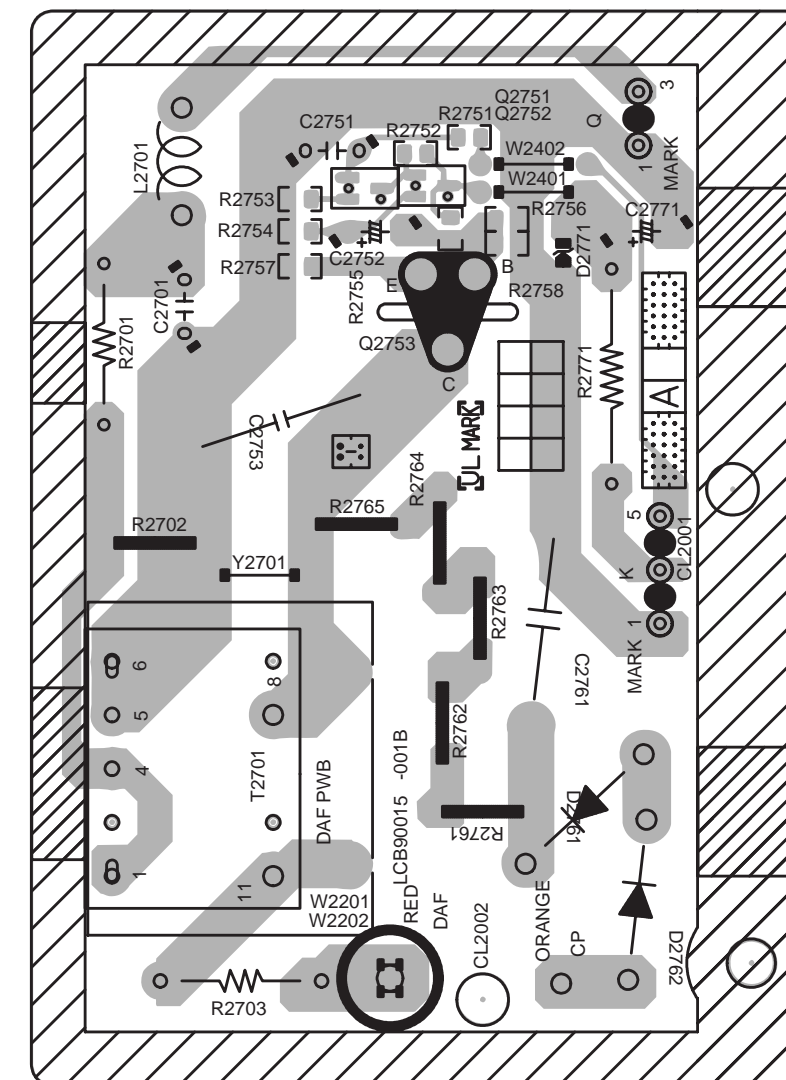
AV-32F703  
AV-32F713  
AV-32F803



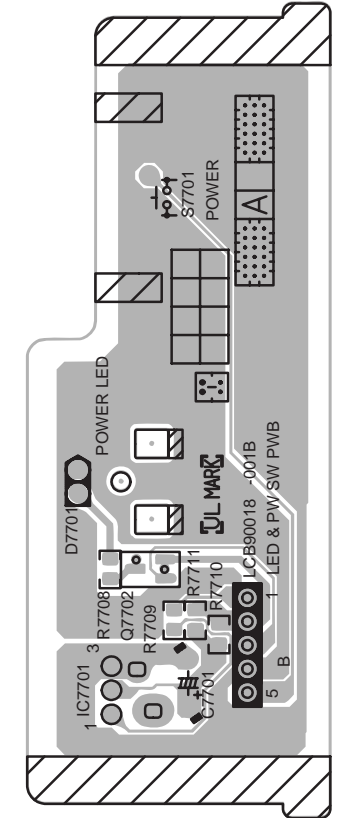
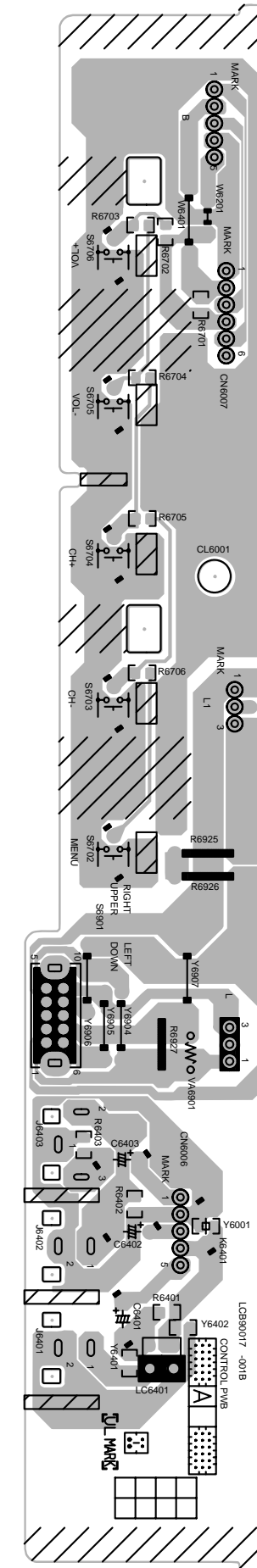




### DAF PWB PATTERN



## LED & POWER SW PWB PATTERN



**FRONT**



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# **JVC**