

JVC

SCHEMATIC DIAGRAMS

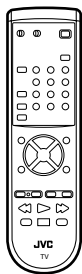
COLOR TELEVISION

BASIC CHASSIS

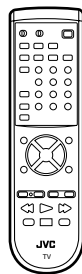
GC

AV-36230 /AH **AV-36260 /AH**
AV-36230 /AM **AV-36260 /AM**
AV-36230 /AR **AV-36260 /AR**

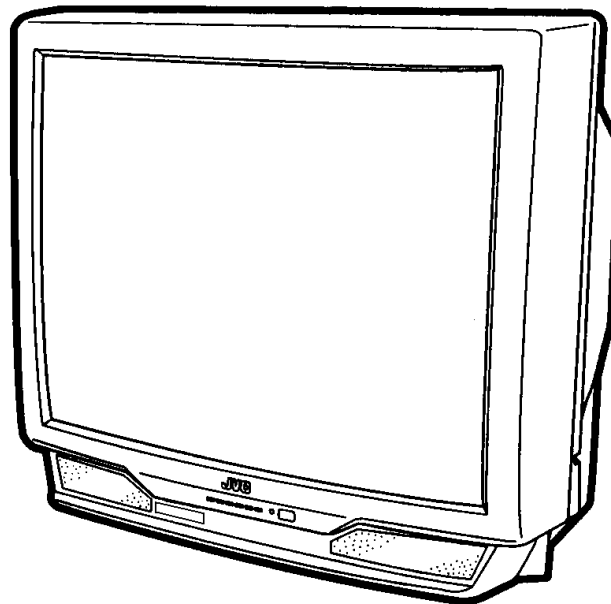
CD-ROM No. SML200201



RM-C306
[AV-36230]



RM-C305
[AV-36260]



AV-36230 /AH **AV-36260 /AH**
AV-36230 /AM **AV-36260 /AM**
AV-36230 /AR **AV-36260 /AR**

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the \triangle 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 : Color 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 : [μ F]

● Withstand voltage

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

* Electrolytic Capacitors

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

● Type

- No indication : Ceramic capacitor
- MY : Mylar 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 : [μ H]
- Others : As specified

(4) Power Supply



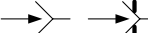
-  : B1
-  : B2(12V)
-  : 9V
-  : 5V

* 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 : (\perp) 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 the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time with a measuring apparatus (oscilloscope, etc.). If the above precaution is not respected , a fuse or any parts will be broken.

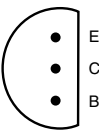

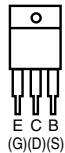
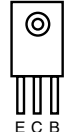

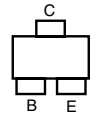
● Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

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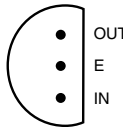
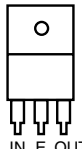
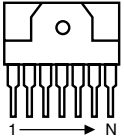
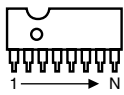
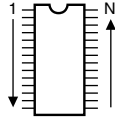
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SEMICONDUCTOR SHAPES

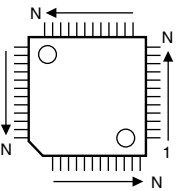
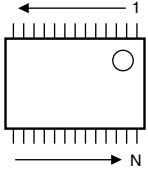
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

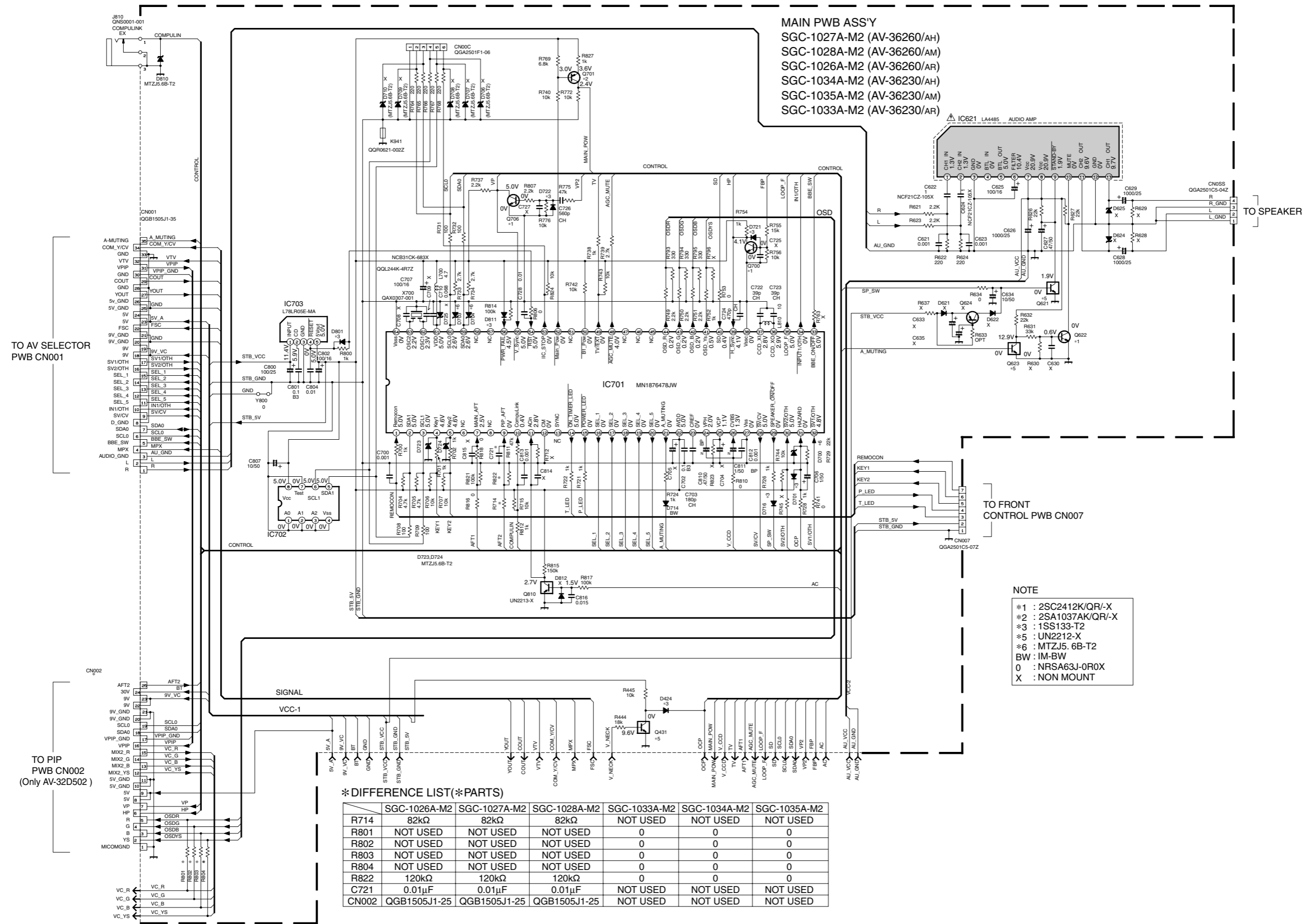
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

TOP VIEW	
	

MAIN PWB CIRCUITDIAGRAM (2/3)



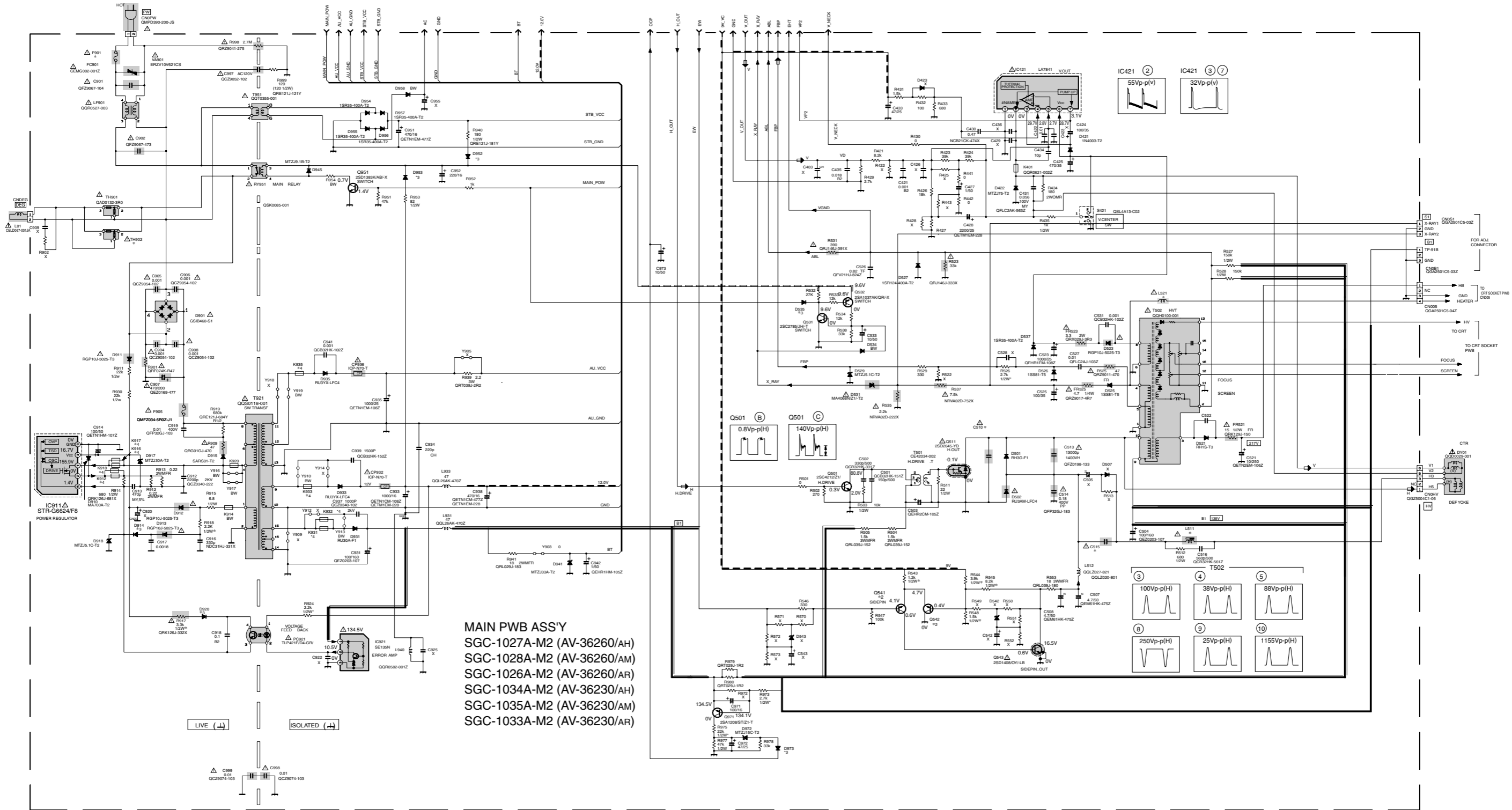
MAIN PWB ASS'Y
 SGC-1027A-M2 (AV-36260/AH)
 SGC-1028A-M2 (AV-36260/AM)
 SGC-1026A-M2 (AV-36260/AR)
 SGC-1034A-M2 (AV-36230/AH)
 SGC-1035A-M2 (AV-36230/AM)
 SGC-1033A-M2 (AV-36230/AR)

NOTE
 *1 : 2SC2412K/QR/-X
 *2 : 2SA1037AK/QR/-X
 *3 : 1SS133-T2
 *5 : UN2212-X
 *6 : MTZJ5.6B-T2
 BW : IM-BW
 0 : NRSA63J-0R0X
 X : NON MOUNT

* DIFFERENCE LIST (*PARTS)

	SGC-1026A-M2	SGC-1027A-M2	SGC-1028A-M2	SGC-1033A-M2	SGC-1034A-M2	SGC-1035A-M2
R714	82kΩ	82kΩ	82kΩ	NOT USED	NOT USED	NOT USED
R801	NOT USED	NOT USED	NOT USED	0	0	0
R802	NOT USED	NOT USED	NOT USED	0	0	0
R803	NOT USED	NOT USED	NOT USED	0	0	0
R804	NOT USED	NOT USED	NOT USED	0	0	0
R822	120kΩ	120kΩ	120kΩ	0	0	0
C721	0.01μF	0.01μF	0.01μF	NOT USED	NOT USED	NOT USED
CN002	QGB1505J1-25	QGB1505J1-25	QGB1505J1-25	NOT USED	NOT USED	NOT USED

MAIN PWB CIRCUIT DIAGRAM (3/3)



MAIN PWB ASS'Y
 SGC-1027A-M2 (AV-36260/AH)
 SGC-1028A-M2 (AV-36260/AM)
 SGC-1026A-M2 (AV-36260/AR)
 SGC-1034A-M2 (AV-36230/AH)
 SGC-1035A-M2 (AV-36230/AM)
 SGC-1033A-M2 (AV-36230/AR)

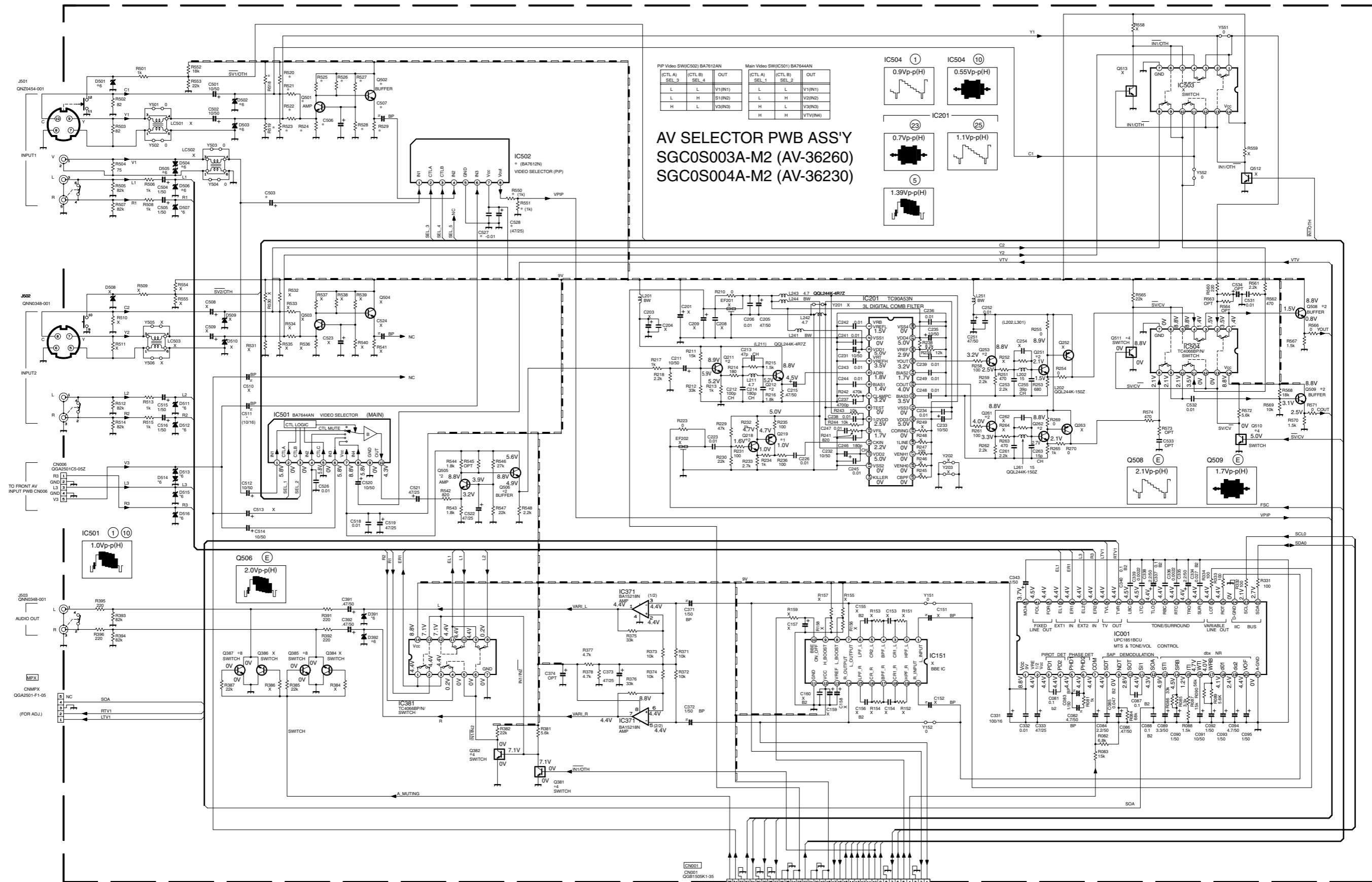
* DIFFERENCE LIST (*PARTS)

	SGC-1026A	SGC-1027A	SGC-1028A	SGC-1033A	SGC-1034A	SGC-1035A
△L521	QQLZ018-560	QQLZ018-560	QQLZ026-540	QQLZ018-560	QQLZ018-560	QQLZ026-540
△L511	QQR1027-3	QQR1027-3	CE41029-00A	QQR1027-3	QQR1027-3	CE41029-00A
△C510	QFZ0196-532	QFZ0196-532	QFZ0196-582	QFZ0196-532	QFZ0196-532	QFZ0196-582
△C515	QFZ0197-624	QFZ0197-564	QFZ0197-654	QFZ0197-624	QFZ0197-564	QFZ0197-654
△TH902	X	X	QAD0132-3R0	X	X	QAD0132-3R0
R504	QRL039J-102	QRL039J-102	QRL039J-821	QRL039J-102	QRL039J-102	QRL039J-821
R505	QRL039J-102	QRL039J-102	QRL039J-821	QRL039J-102	QRL039J-102	QRL039J-821
R427	QRT029J-1R5	QRT029J-1R0	QRT029J-1R0	QRT029J-1R5	QRT029J-1R0	QRT029J-1R0
△F901	QMF51U1-5R0-J8	QMF51U1-5R0-J8	QMF51N1-5R0-J5	QMF51U1-5R0-J8	QMF51U1-5R0-J8	QMF51N1-5R0-J5

NOTE

*2 : 2SA1037AK/QR-X
 *3 : 1SS133-T2
 *4 : QQR0582-001Z
 BW : IM-BW
 0 : NRS/A63J-0R0X
 X : NON MOUNT

AV SELECTOR PWB CIRCUIT DIAGRAM



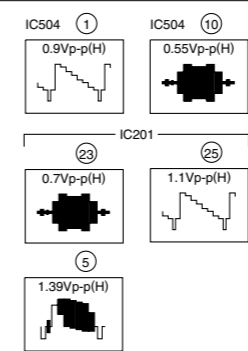
AV SELECTOR PWB ASS'Y
SGC0S003A-M2 (AV-36260)
SGC0S004A-M2 (AV-36230)

PIP Video SW(IC502) BA7612AN

(CTL A) SEL 3	(CTL B) SEL 4	OUT
L	L	V1(N1)
L	H	S1(N2)
H	L	V3(N3)

Main Video SW(IC501) BA7644AN

(CTL A) SEL 1	(CTL B) SEL 2	OUT
L	L	V1(N1)
L	H	V2(N2)
H	L	V3(N3)
H	H	VTV(N4)

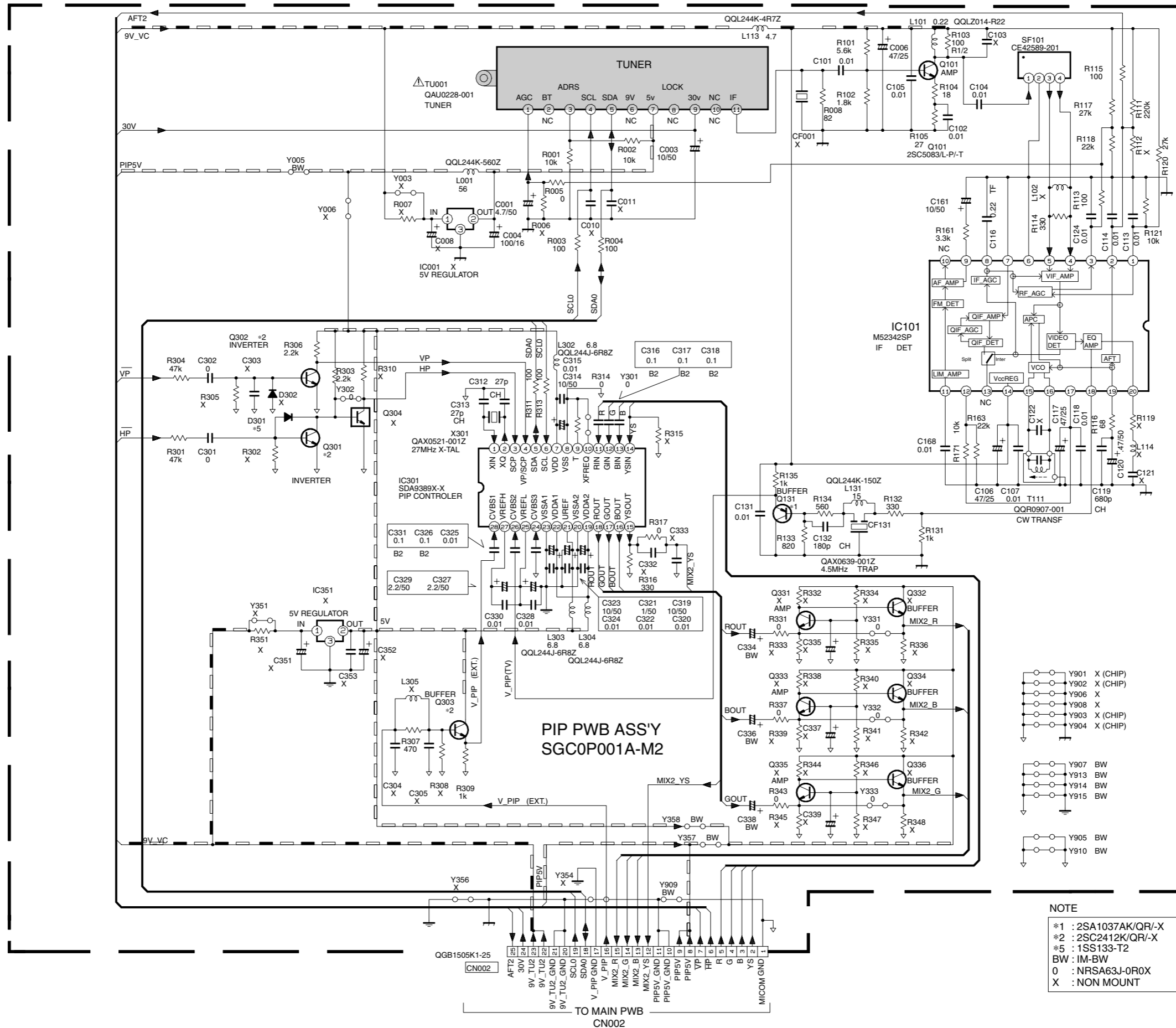


*DIFFERENCE LIST(*PARTS)

IC502	Q501	Q502	R518	R519	R520	R521	R522	R523	R524	R525	R526
SGC0S003A-M2	BA7612N	#2	NOT USED	NOT USED	NOT USED	1.5k Ω	1.5k Ω	NOT USED	1.8k Ω	1.8k Ω	10k Ω
SGC0S004A-M2	NOT USED	NOT USED	NOT USED	NOT USED	15k Ω	NOT USED	NOT USED	10k Ω	NOT USED	NOT USED	NOT USED
R527	R528	R529	R550	R551	C503	C506	C507	C511	C527	C528	
SGC0S003A-M2	27k Ω	18k Ω	5.6k Ω	1k Ω	10 μF/50V	47 μF/25V	10 μF/16V	10 μF/16V	0.01	47 μF/25V	
SGC0S004A-M2	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	

NOTE
*1 : 2SA1037AK/QR-X
*2 : 2SC2412K/QR-X
*4 : UN2212-X
*6 : MTZJ9-IC-T2
*8 : DTC323TK-X
BW : IM-BW
0 : NPSA63J-OROX
X : NON MOUNT

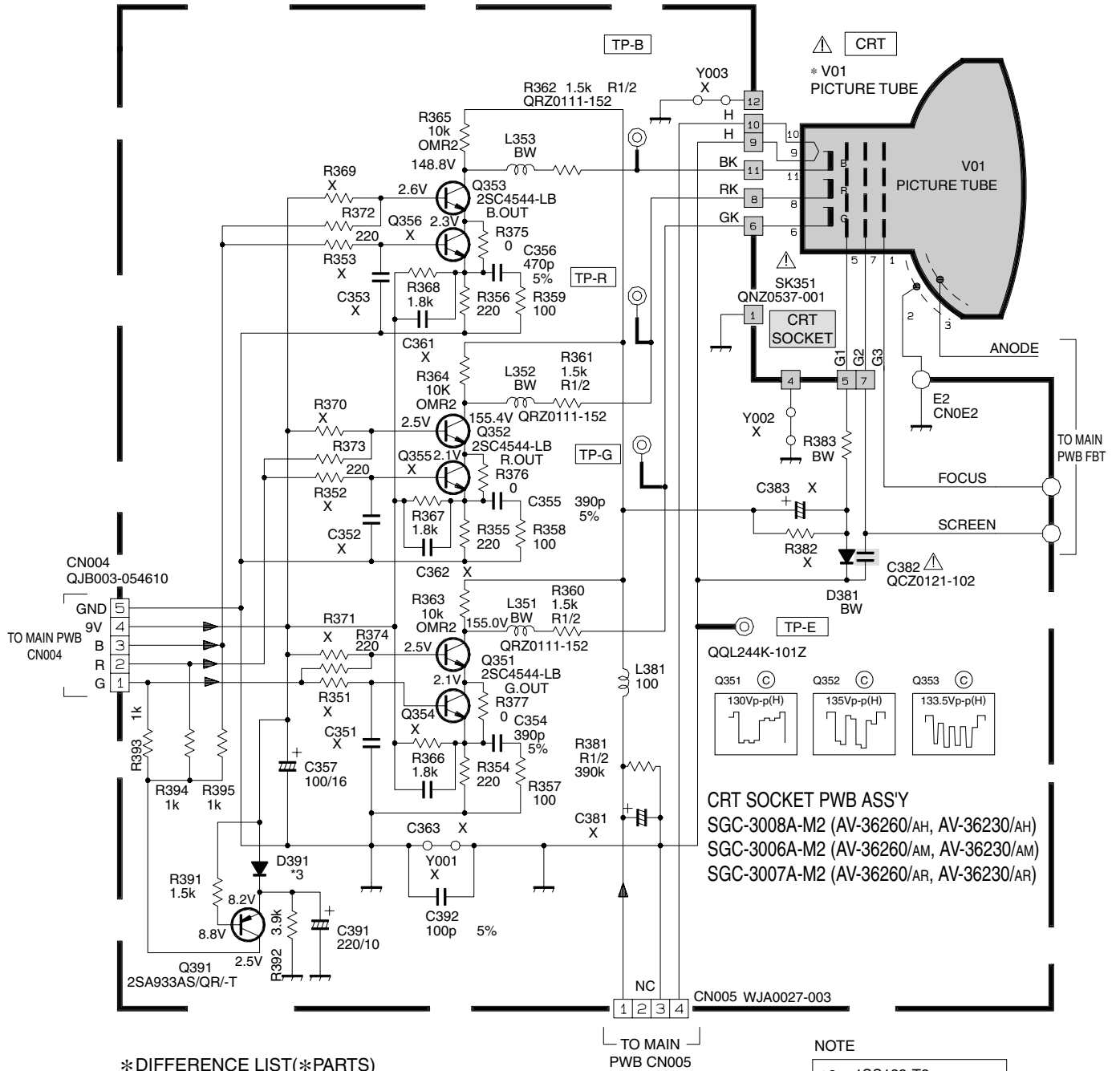
PIP PWB CIRCUIT DIAGRAM [AV-36260]



NOTE

- *1 : 2SA1037AK/QR/-X
- *2 : 2SC2412K/QR/-X
- *5 : 1SS133-T2
- BW : IM-BW
- 0 : NRSA63J-0R0X
- X : NON MOUNT

CRT SOCKET PWB CIRCUIT DIAGRAM



*** DIFFERENCE LIST (*PARTS)**

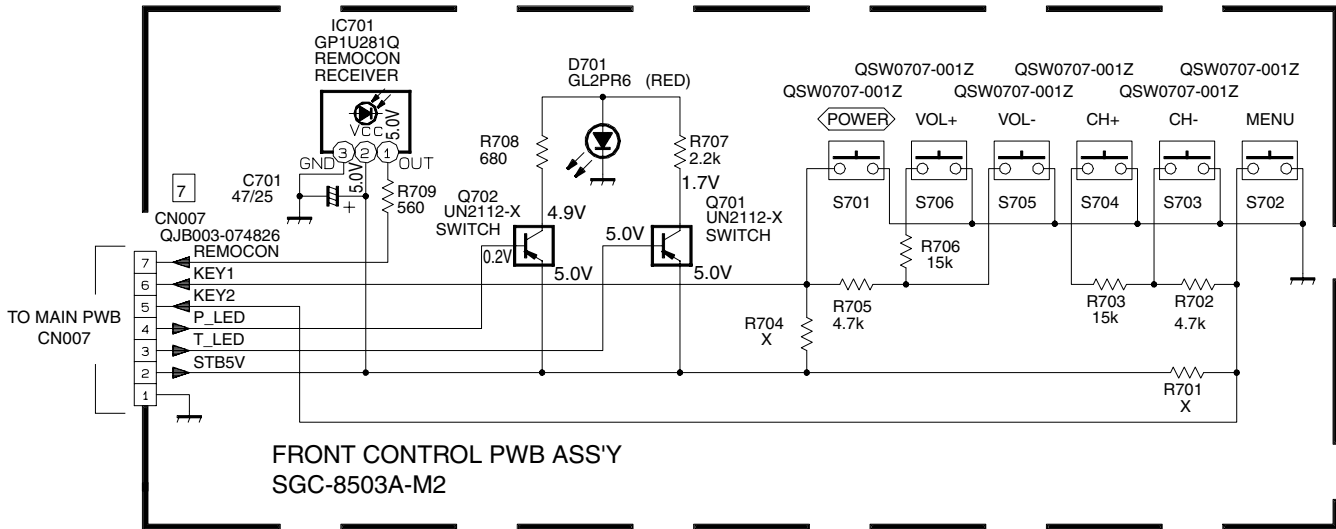
	SGC-3006A	SGC-3007A-M2	SGC-3008A
⚠ V01	A90LLD361X15	A90AEJ15X01	A90LPY30X04

NOTE

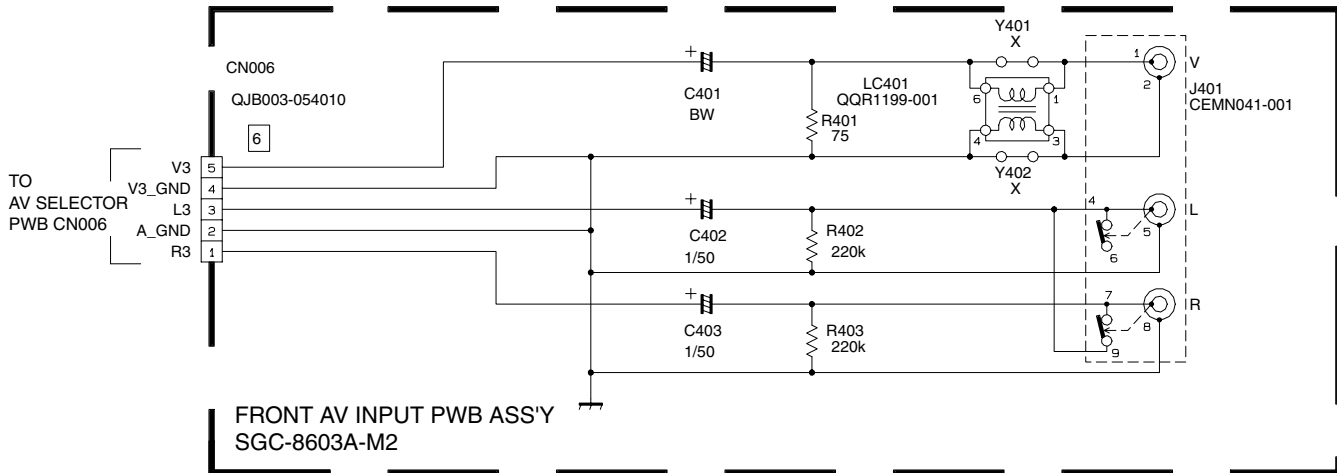
*3 : 1SS133-T2
BW : IM-BW
X : NON MOUNT

FRONT CONTROL AND FRONT AV INPUT PWB CIRCUIT DIAGRAMS

- FRONT CONTROL -



- FRONT AV INPUT -



NOTE

X : NON MOUNT

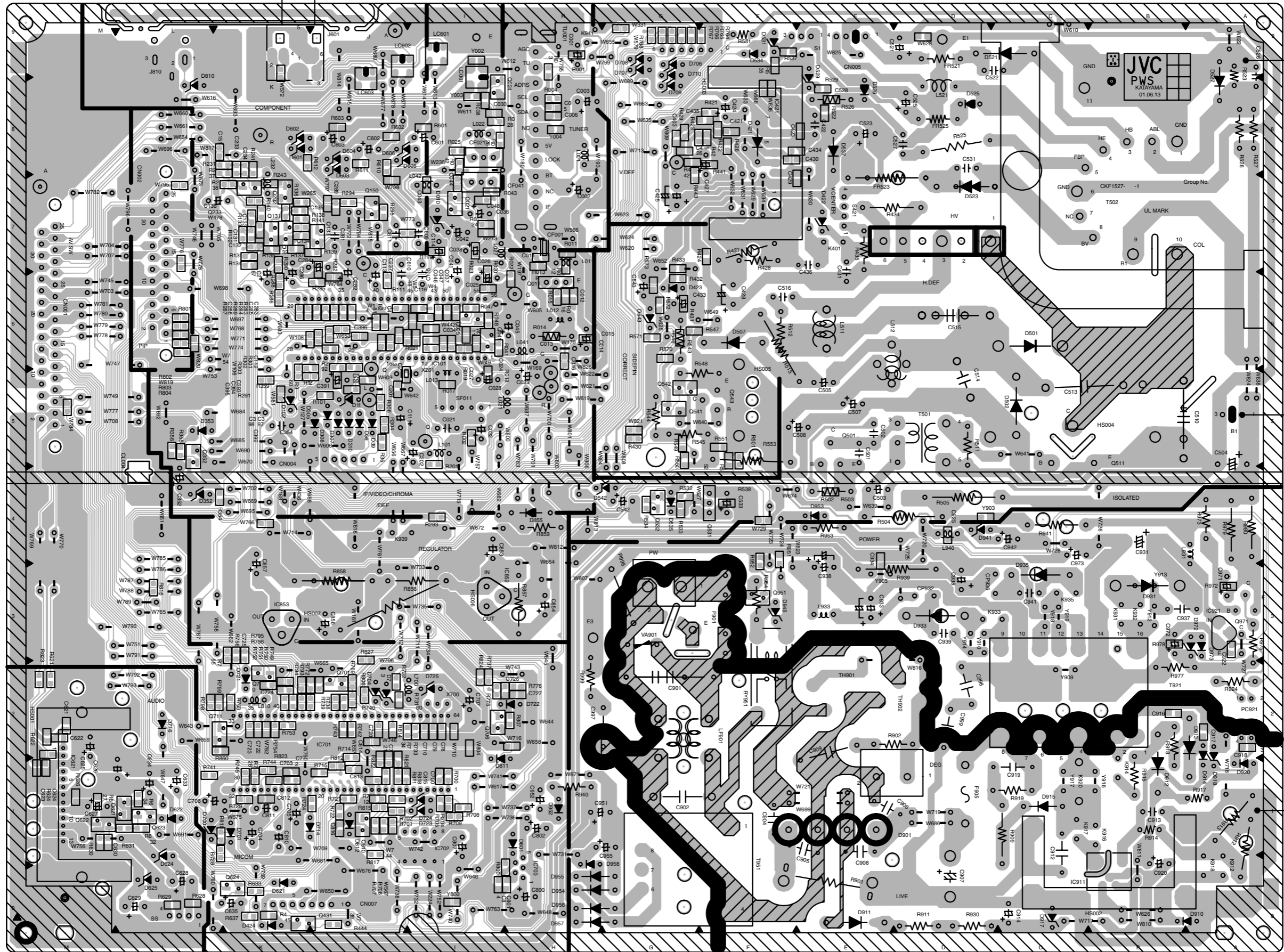
PATTERN DIAGRAMS

MAIN PWB PATTERN



CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE (S) AND ROHM'S MFR'S TYPE CP(S).

FRONT
↓



(H)

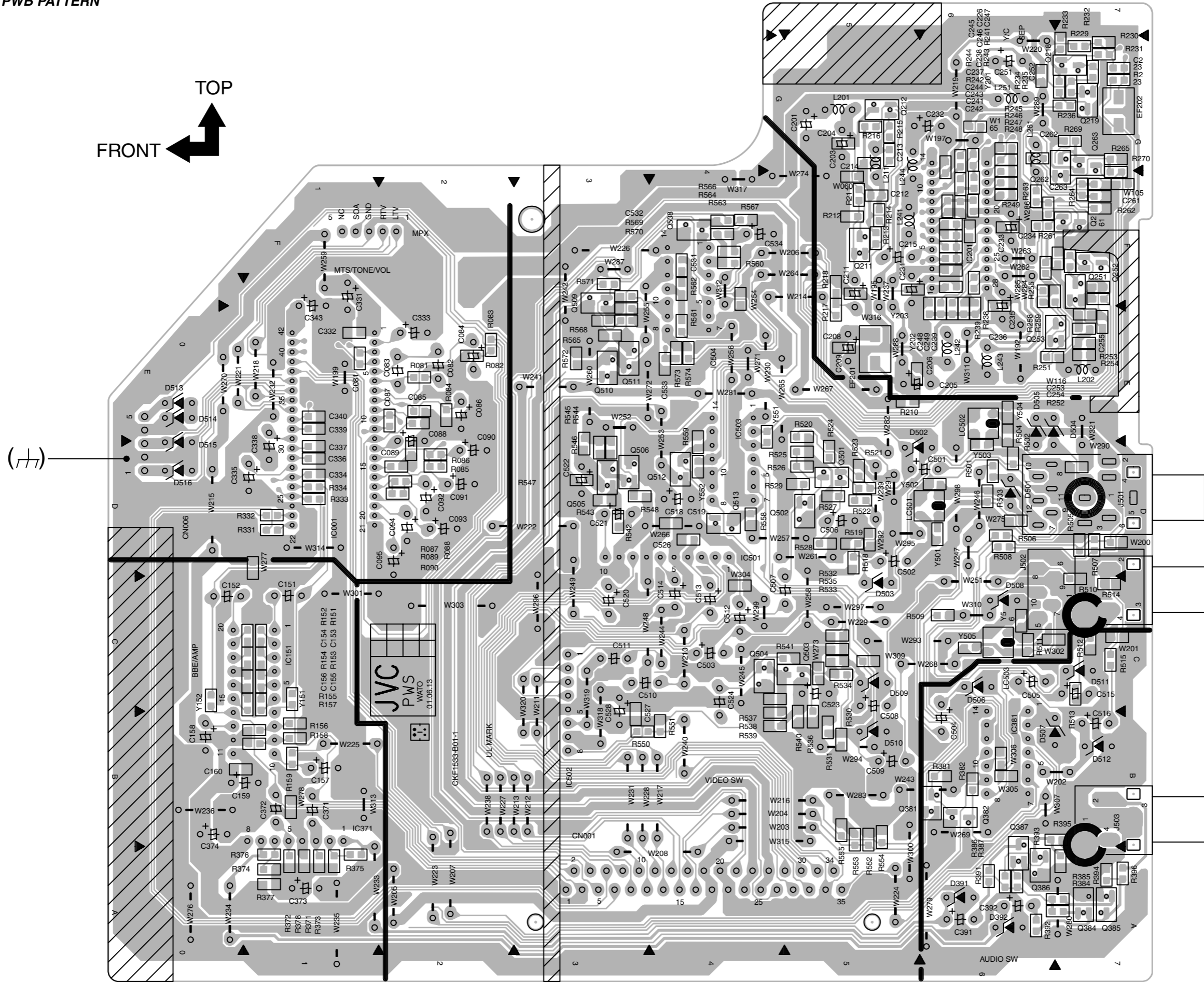
TP-91B(B1)

(T)

AV SELECTOR PWB PATTERN

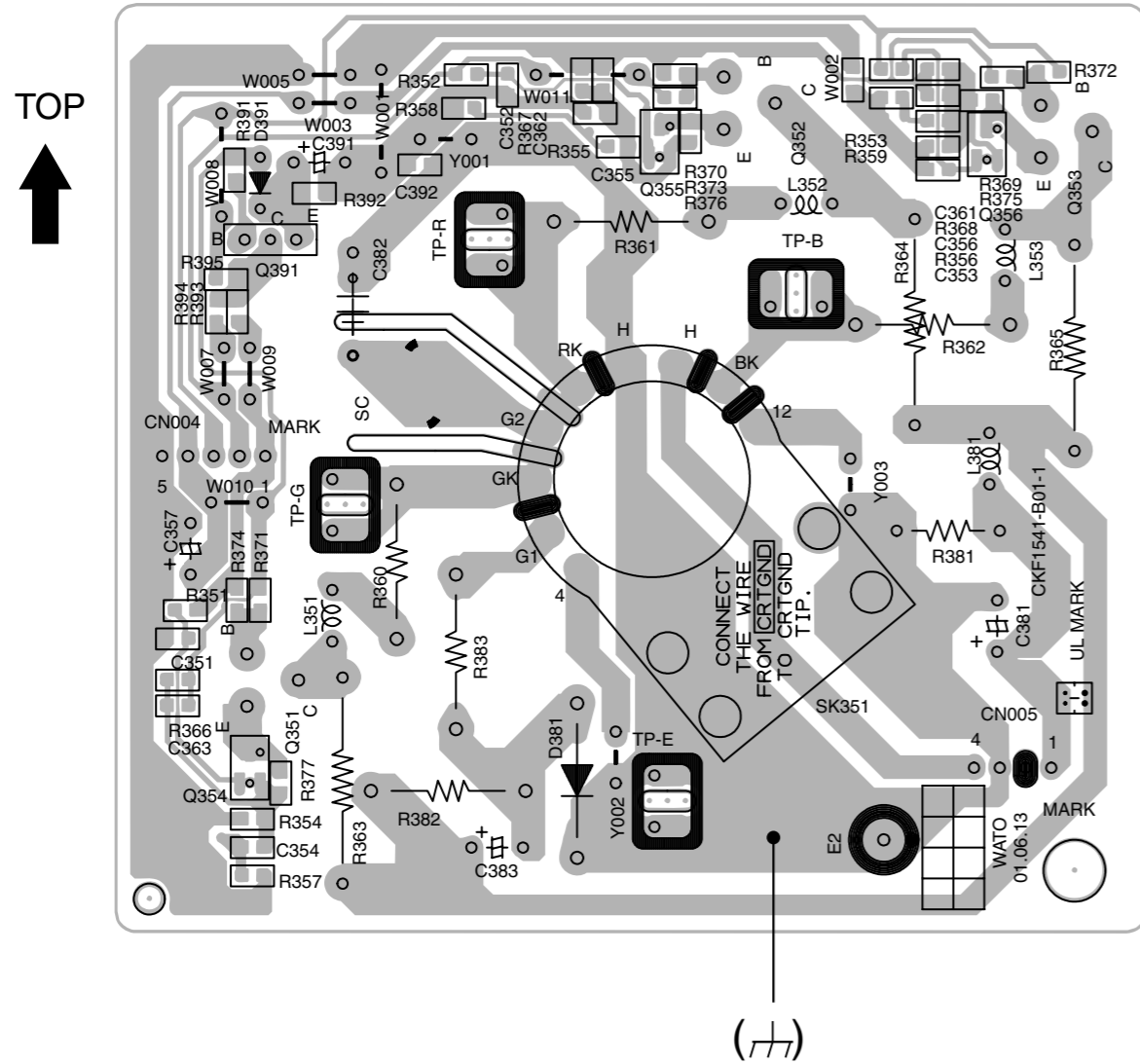
AV-36230
AV-36260

AV-36230
AV-36260

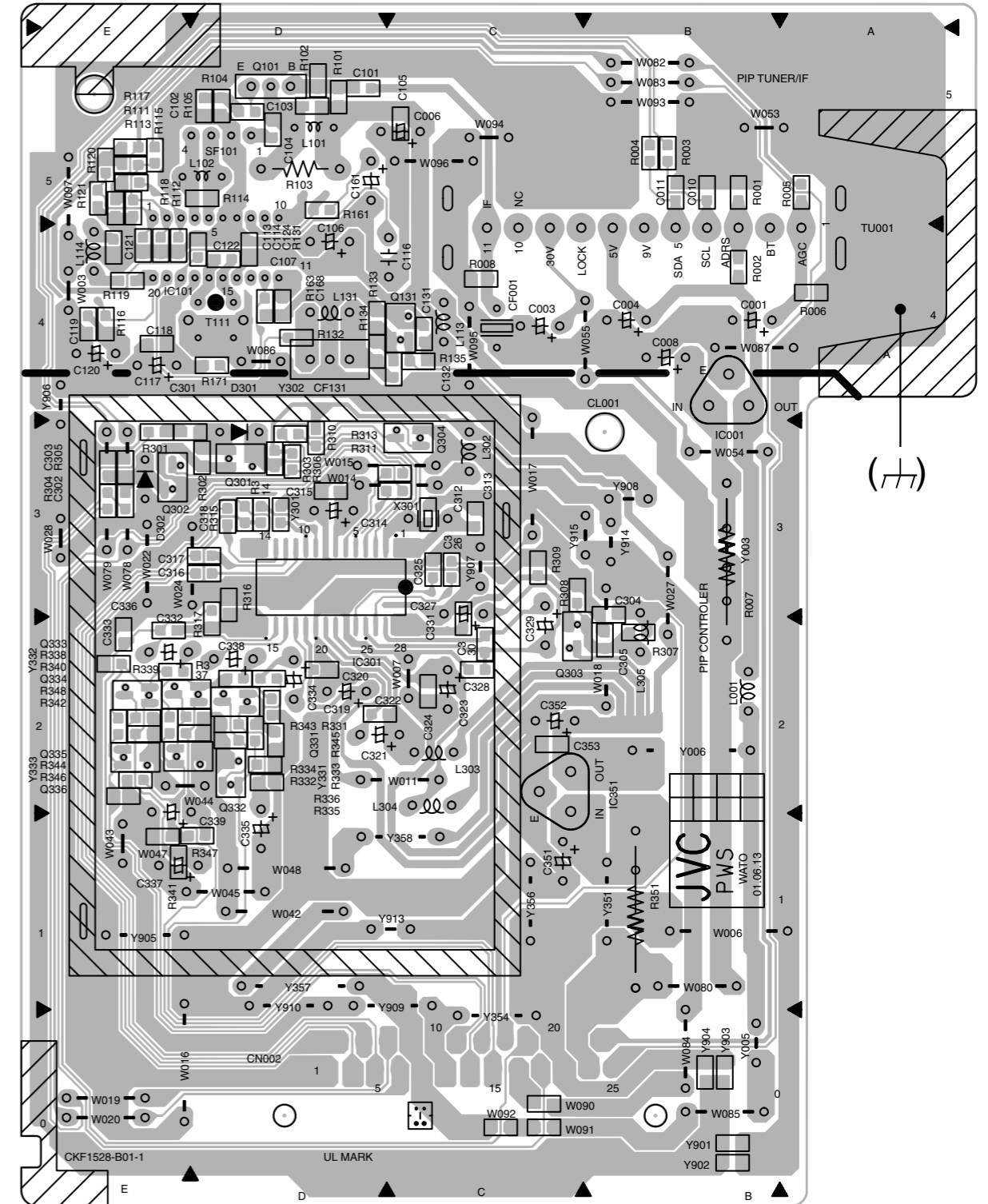


CRT SOCKET PWB PATTERN

PIP PWB PATTERN [AV-36260]

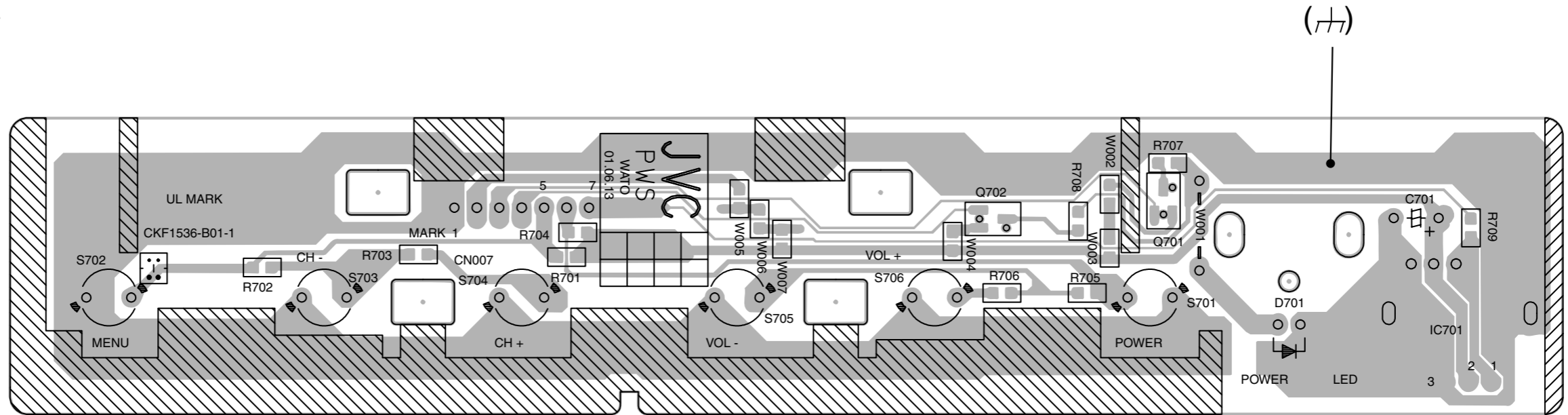
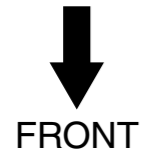


TOP
FRONT

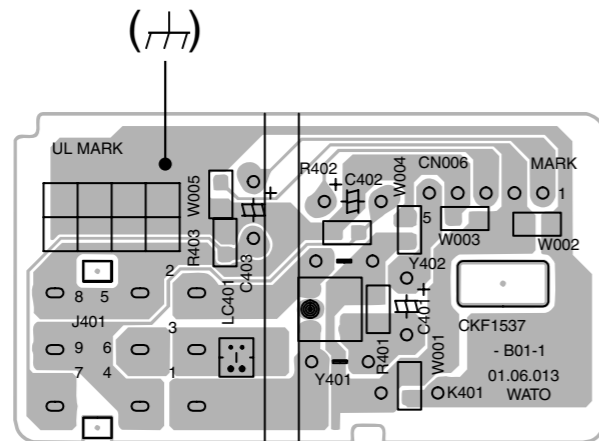
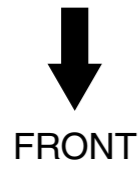


FRONT CONTROL AND FRONT AV INPUT PWB PATTERNS

- FRONT CONTROL -



- FRONT AV INPUT -



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		
			×		○
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					
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				
	A-2 98				
UHF	×	14 } 69	IV		
				A-1 99	
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		
			07		
		VH	08		
			09		
			10		
			11		
			12		
			13		
			×	○	MID
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				
HYPER	O 28	III			
	P 29				
	Q 30				
	R 31				
	S 32				
	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	IV			
	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		
○	×	UHF	14	IV	
			69		
			TOTAL 180CH		
			{ VHF 124CH		
			{ UHF 56CH		
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.					

JVC SERVICE & ENGINEERING COMPANY OF AMERICA

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