

# JVC

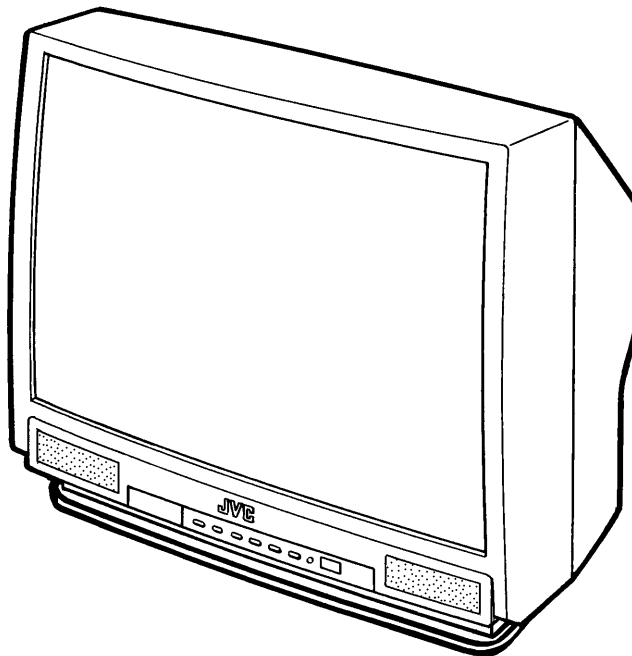
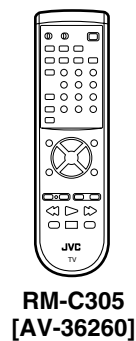
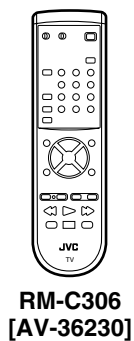
## SCHEMATIC DIAGRAMS

### COLOR TELEVISION

BASIC CHASSIS
AC

**AV-36230 /H**    **AV-36260 /H**  
**AV-36230 /R**    **AV-36260 /R**

CD-ROM No. SML200103



# AV-36230 /H AV-36260 /H AV-36230 /R AV-36260 /R

## 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 $\Omega$ /V
- (4) Oscilloscope sweeping time : H  $\Rightarrow$  20 $\mu$ 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 : [ $\Omega$ ]
- k : [k $\Omega$ ]
- M : [M $\Omega$ ]

###### • Rated allowable power

- No indication : 1/10 [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 : [ $\mu$ 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 [ $\mu$ 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 : [ $\mu$ H]
- Others : As specified

##### (4) Power Supply



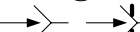
-  : B1
-  : B2(12V)
-  : 9V
-  : 5V

\*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) : ( $\text{⏏}$ ) 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 (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.

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**CIRCUIT DIAGRAMS**

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Pattern name	Model	AV-36230	AV-36260
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## SEMICONDUCTOR SHAPES

### TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

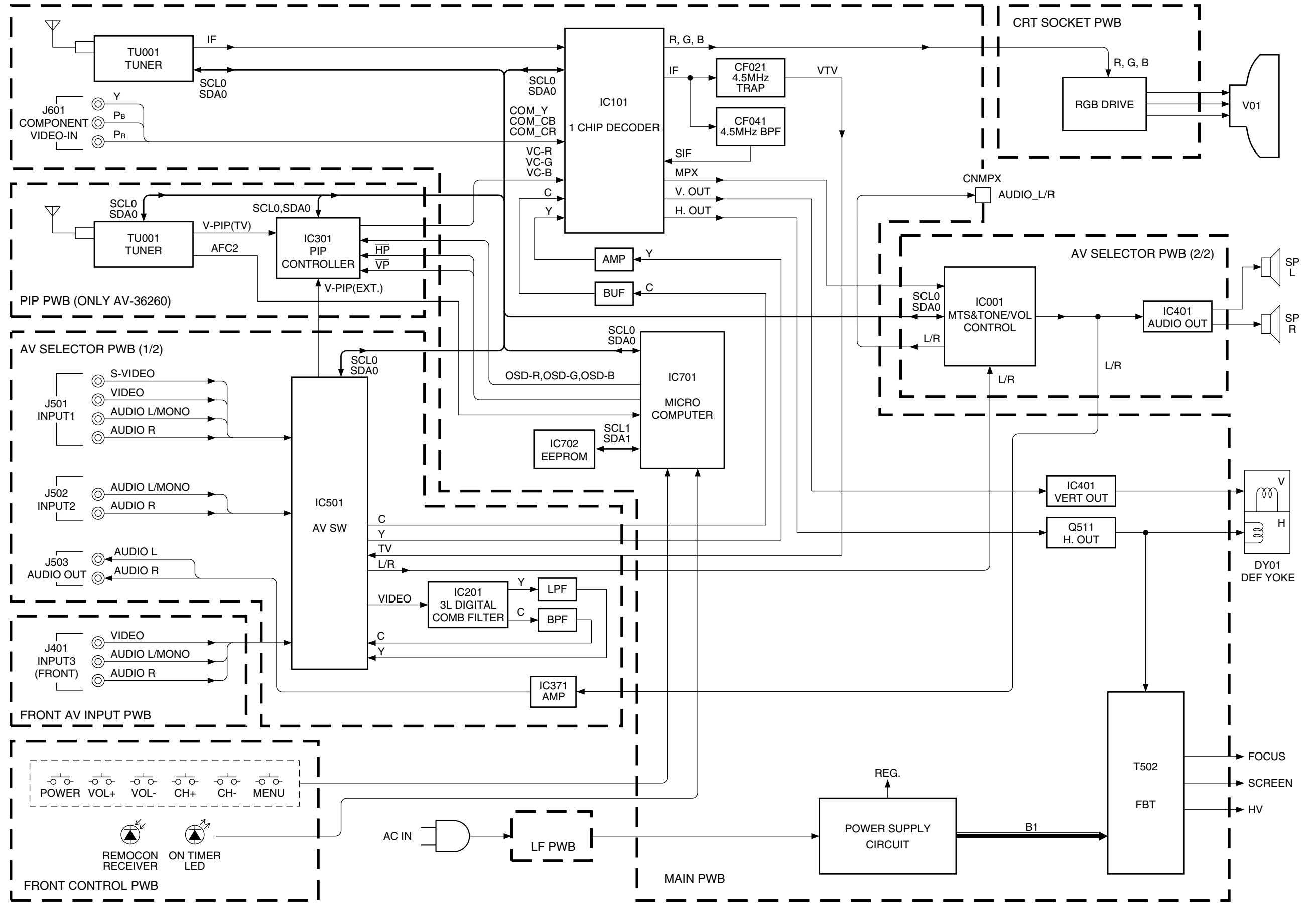
### IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW

### CHIP IC

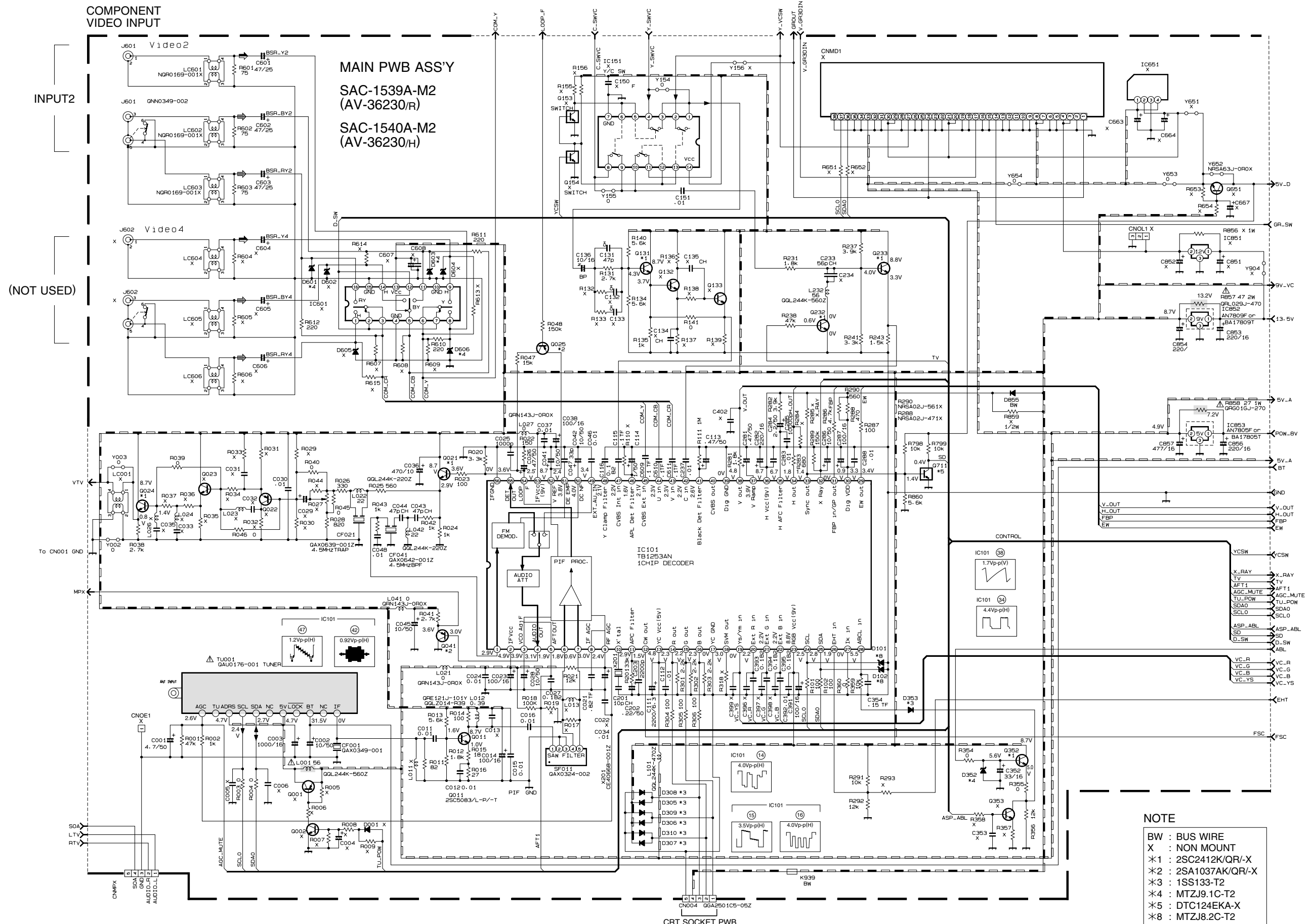
TOP VIEW	

# BLOCK DIAGRAM



# CIRCUIT DIAGRAMS

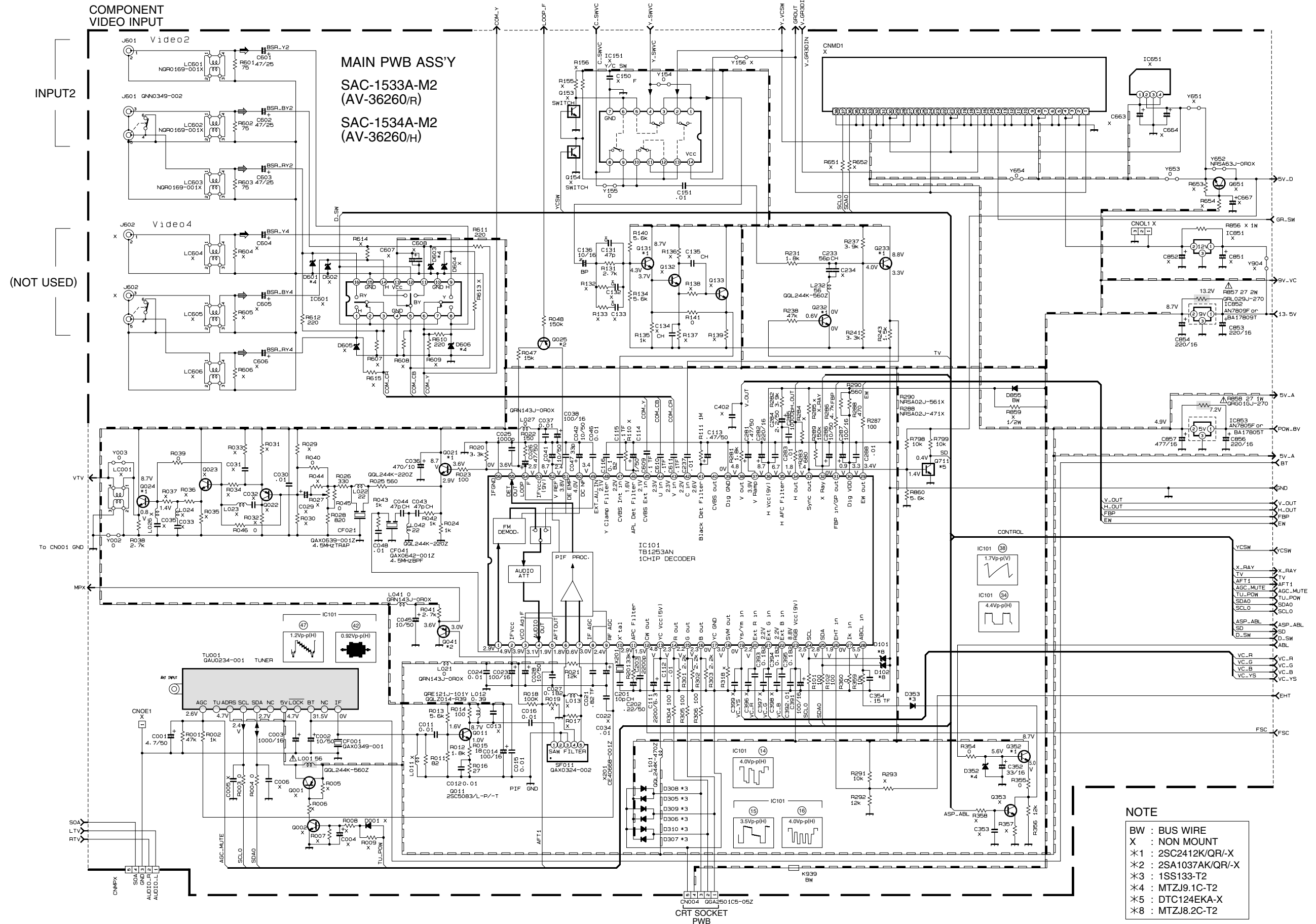
## MAIN PWB CIRCUIT DIAGRAM [AV-36230]



**NOTE**

- BW : BUS WIRE
- X : NON MOUNT
- \*1 : 2SC2412K/QR/-X
- \*2 : 2SA1037AK/QR/-X
- \*3 : 1S5133-T2
- \*4 : MTZJ9.1C-T2
- \*5 : DTC124EKA-X
- \*8 : MTZJ8.2C-T2

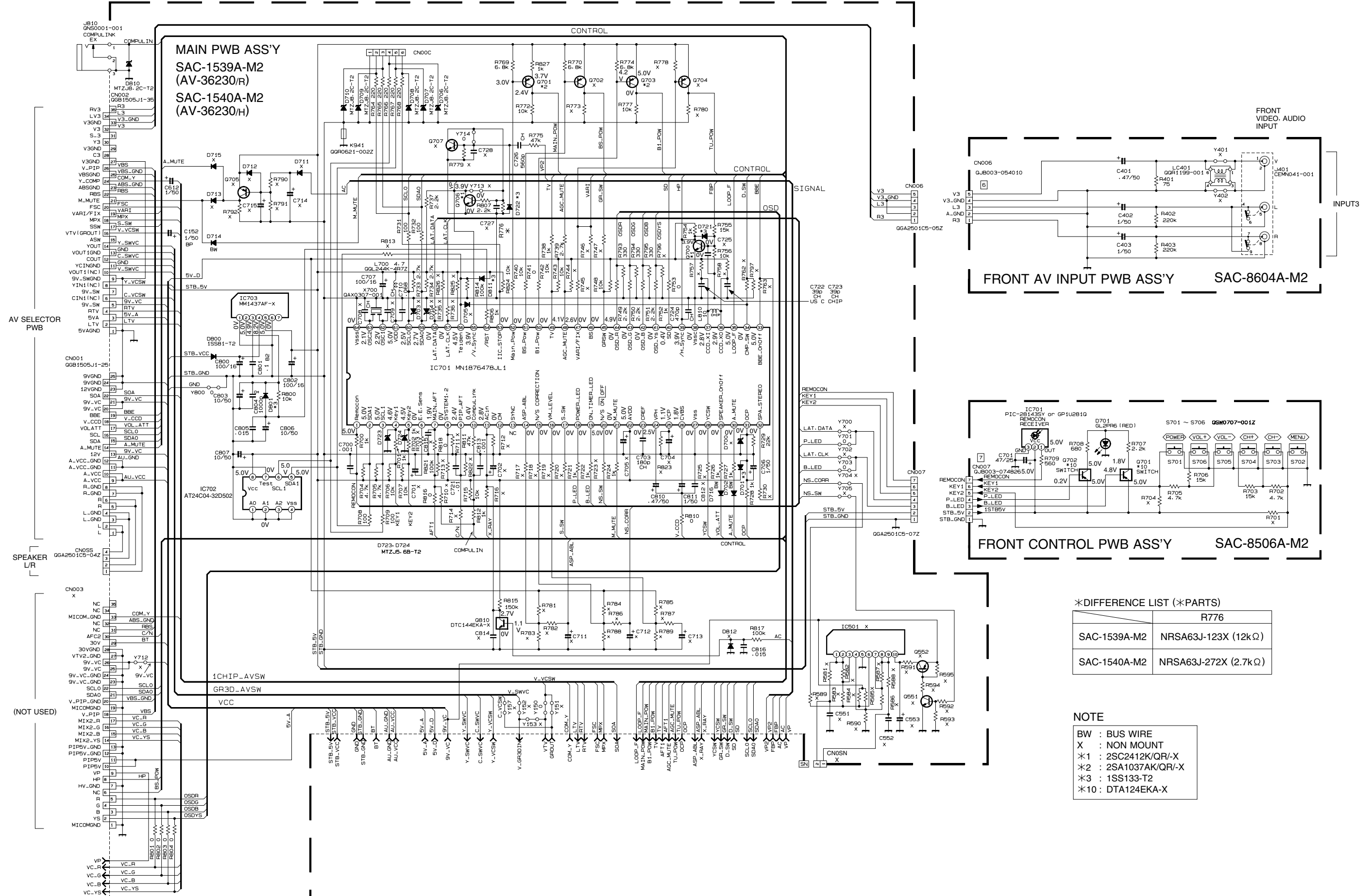
MAIN PWB CIRCUIT DIAGRAM [AV-36260]



**NOTE**

- BW : BUS WIRE
- X : NON MOUNT
- \*1 : 2SC2412K/QR-X
- \*2 : 2SA1037AK/QR-X
- \*3 : 1SS133-T2
- \*4 : MTZJ9.1C-T2
- \*5 : DTC124EKA-X
- \*8 : MTZJ8.2C-T2

MAIN, FRONT CONTROL AND FRONT AV INPUT PWB CIRCUIT DIAGRAMS [AV-36230]



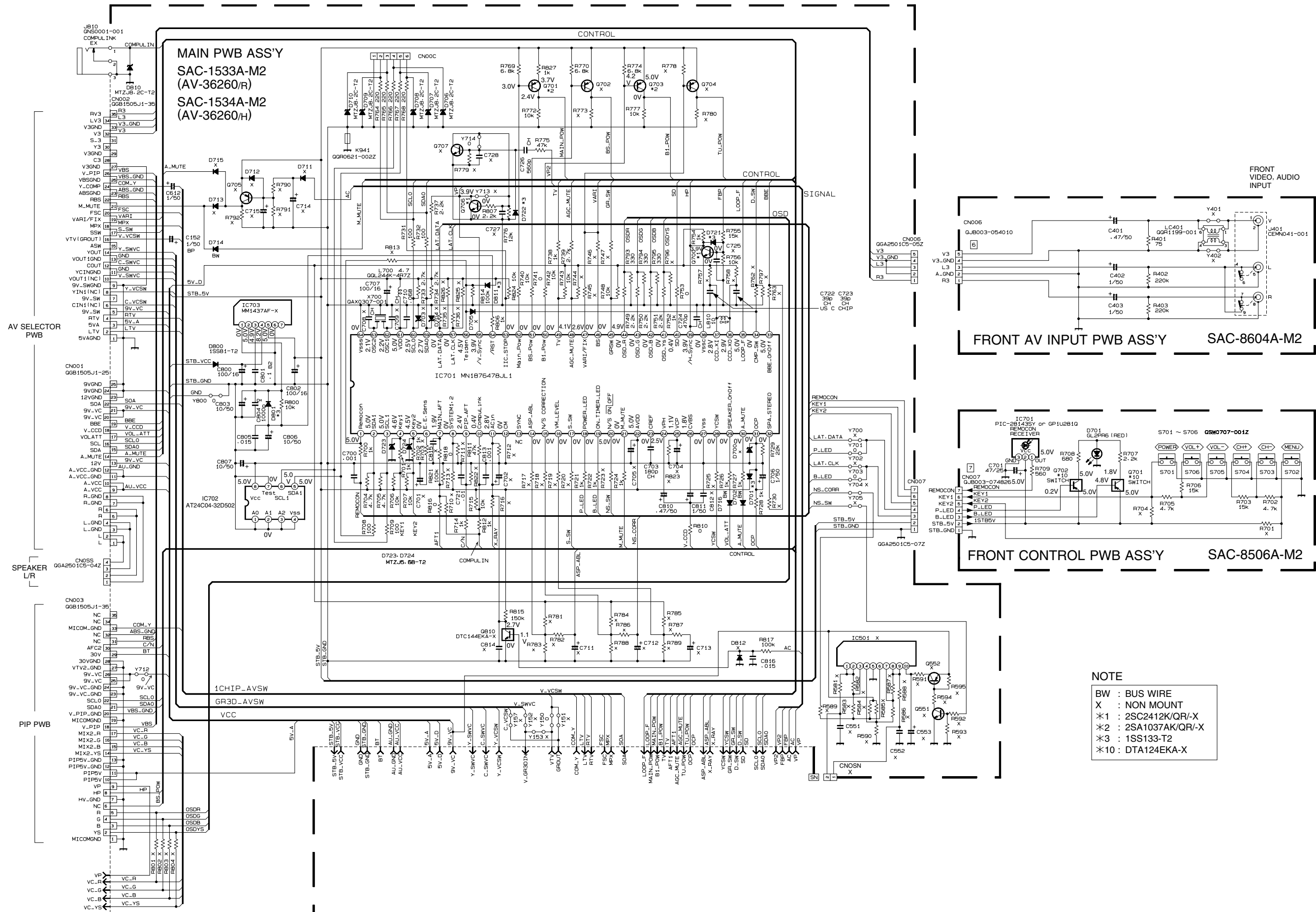
\*DIFFERENCE LIST (\*PARTS)

	R776
SAC-1539A-M2	NRSA63J-123X (12kΩ)
SAC-1540A-M2	NRSA63J-272X (2.7kΩ)

NOTE

- BW : BUS WIRE
- X : NON MOUNT
- \*1 : 2SC2412K/QR/-X
- \*2 : 2SA1037AK/QR/-X
- \*3 : 1S5133-T2
- \*10 : DTA124EKA-X

MAIN, FRONT CONTROL AND FRONT AV INPUT PWB CIRCUIT DIAGRAMS [AV-36260]

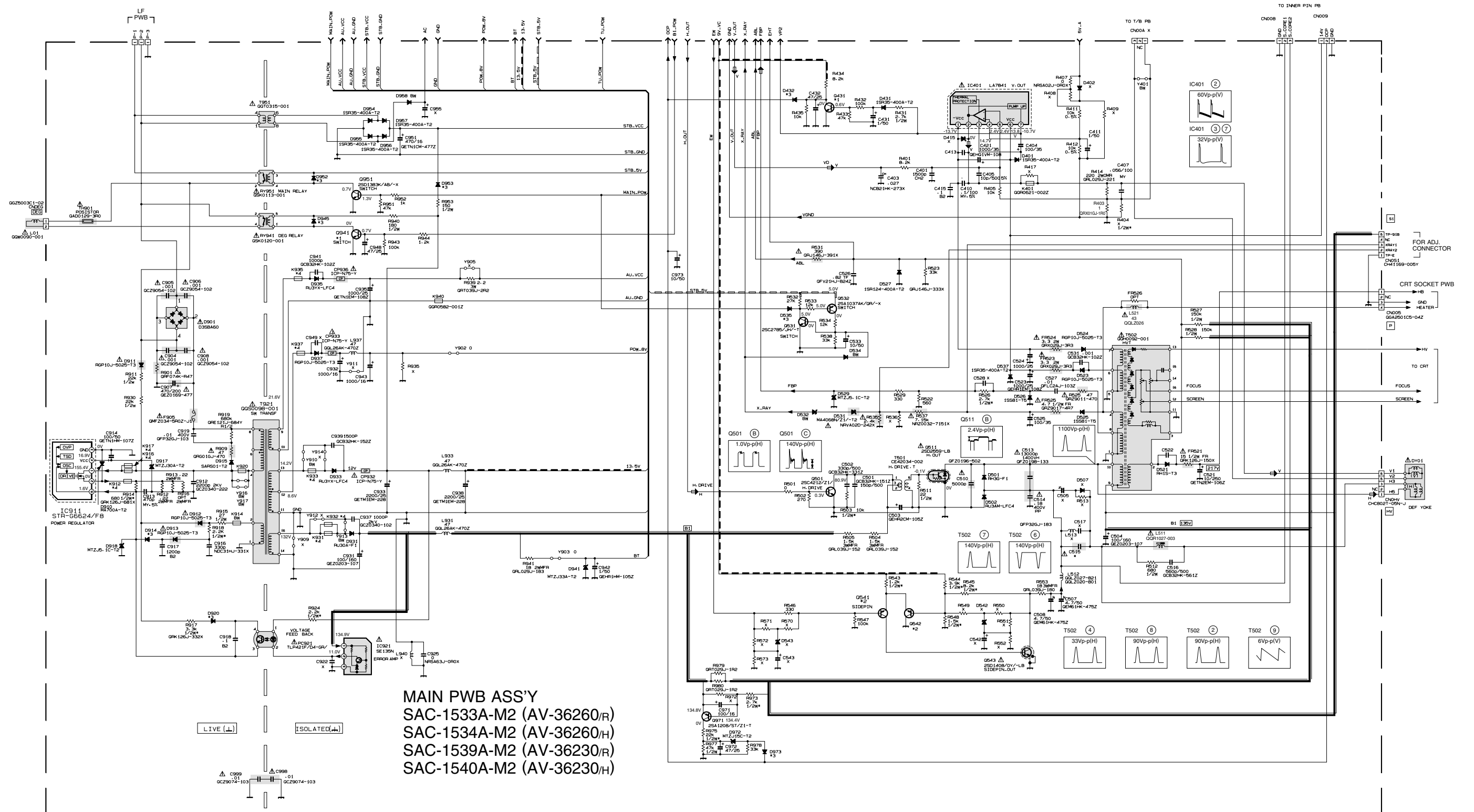


**NOTE**

- BW : BUS WIRE
- X : NON MOUNT
- \*1 : 2SC2412K/QR-X
- \*2 : 2SA1037AK/QR-X
- \*3 : 1SS133-T2
- \*10 : DTA124EKA-X



MAIN PWB CIRCUIT DIAGRAM



MAIN PWB ASS'Y  
 SAC-1533A-M2 (AV-36260/R)  
 SAC-1534A-M2 (AV-36260/H)  
 SAC-1539A-M2 (AV-36230/R)  
 SAC-1540A-M2 (AV-36230/H)

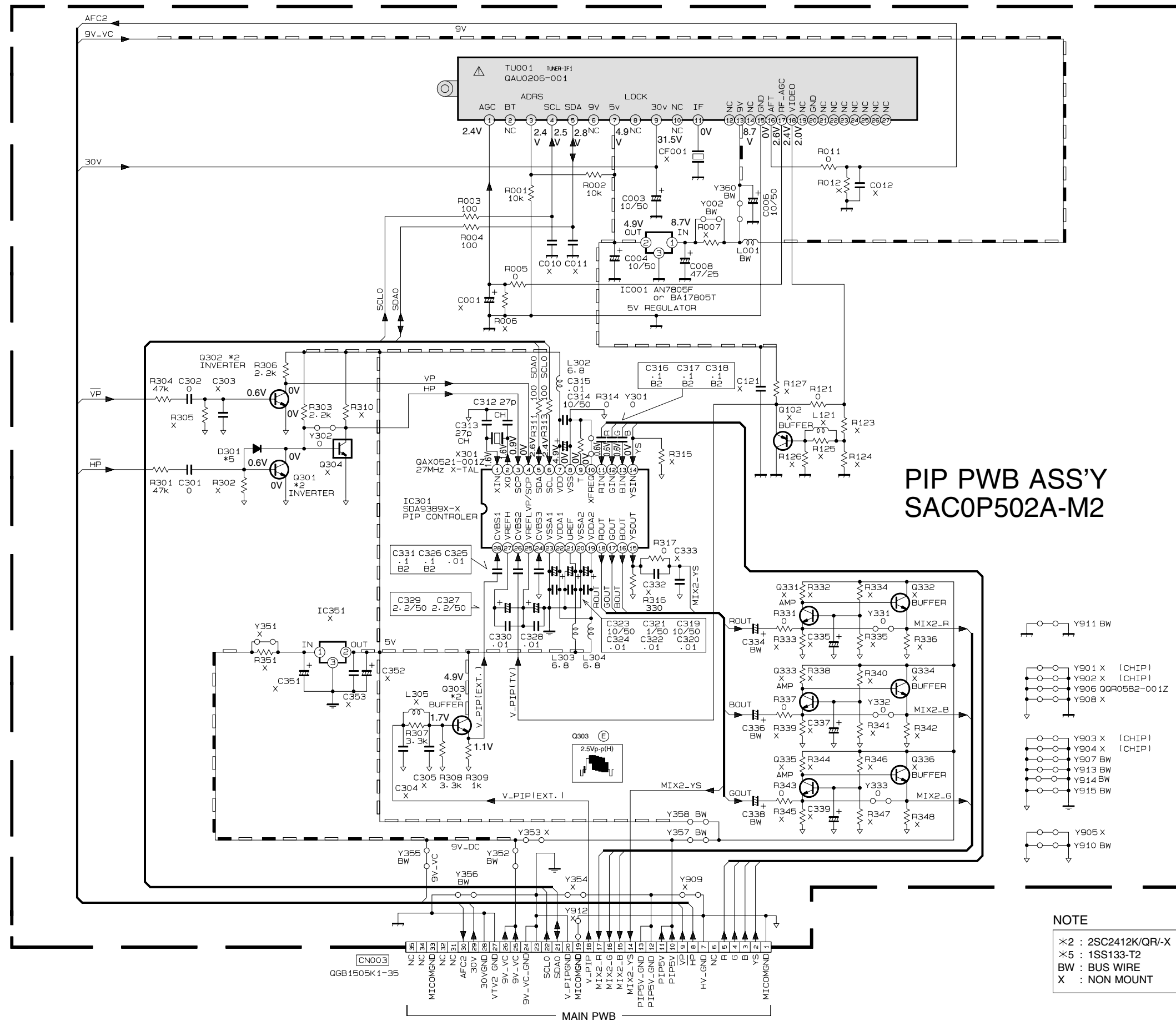
\*DIFFERENCE LIST (\*PARTS)

	▲ C515
SAC-1533A-M2	0.62 μF QFZ0197-624
SAC-1534A-M2	0.56 μF QFZ0197-564
SAC-1539A-M2	0.62 μF QFZ0197-624
SAC-1540A-M2	0.56 μF QFZ0197-564

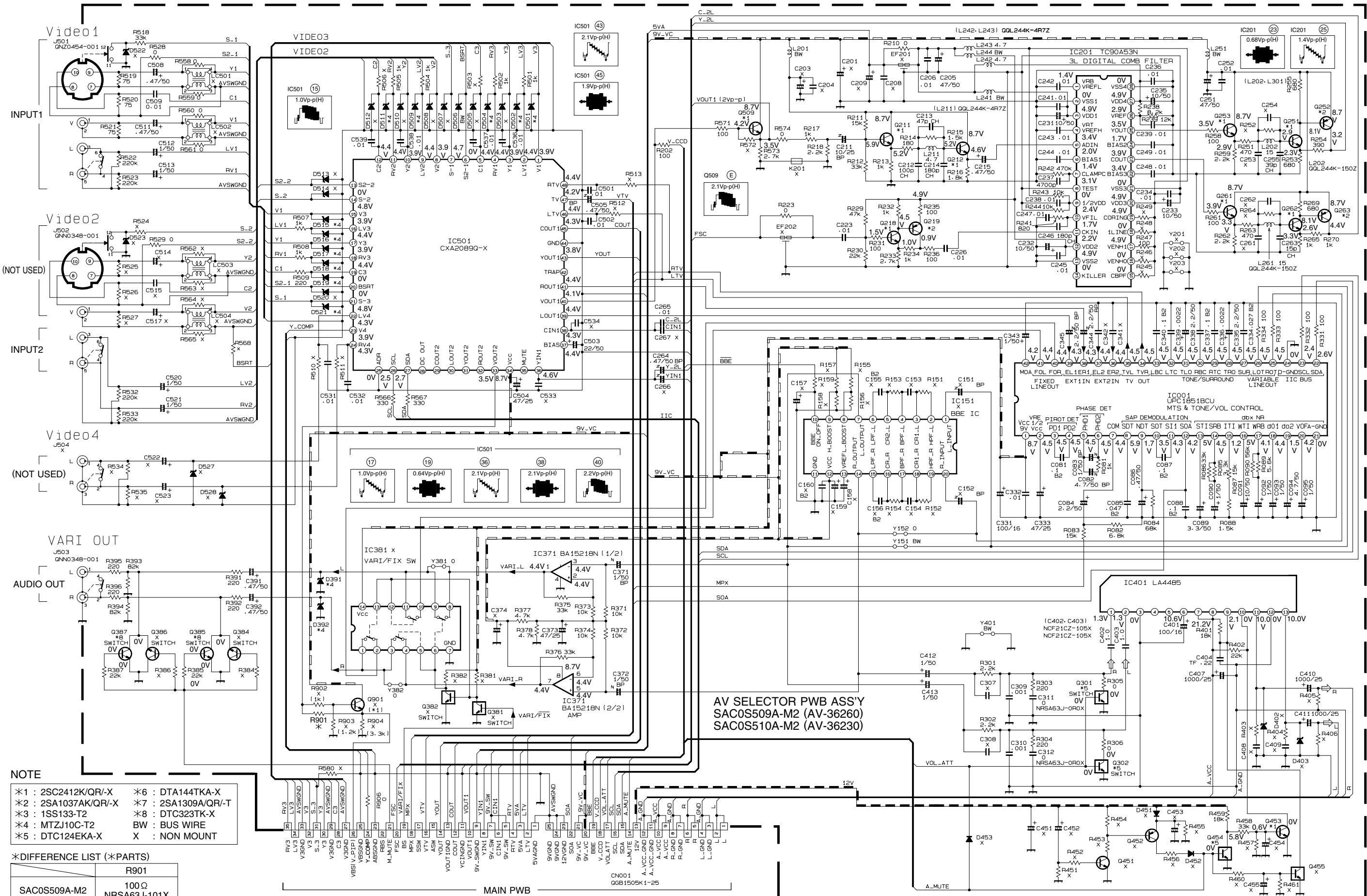
NOTE

- BW : BUS WIRE
- X : NON MOUNT
- \*1 : 2SC2412K/QR-/X
- \*2 : 2SA1037AK/QR-/X
- \*3 : 1SS133-T2
- \*4 : QQR0582-001Z

PIP PWB CIRCUIT DIAGRAM [AV-36260]



AV SELECTOR PWB CIRCUIT DIAGRAM



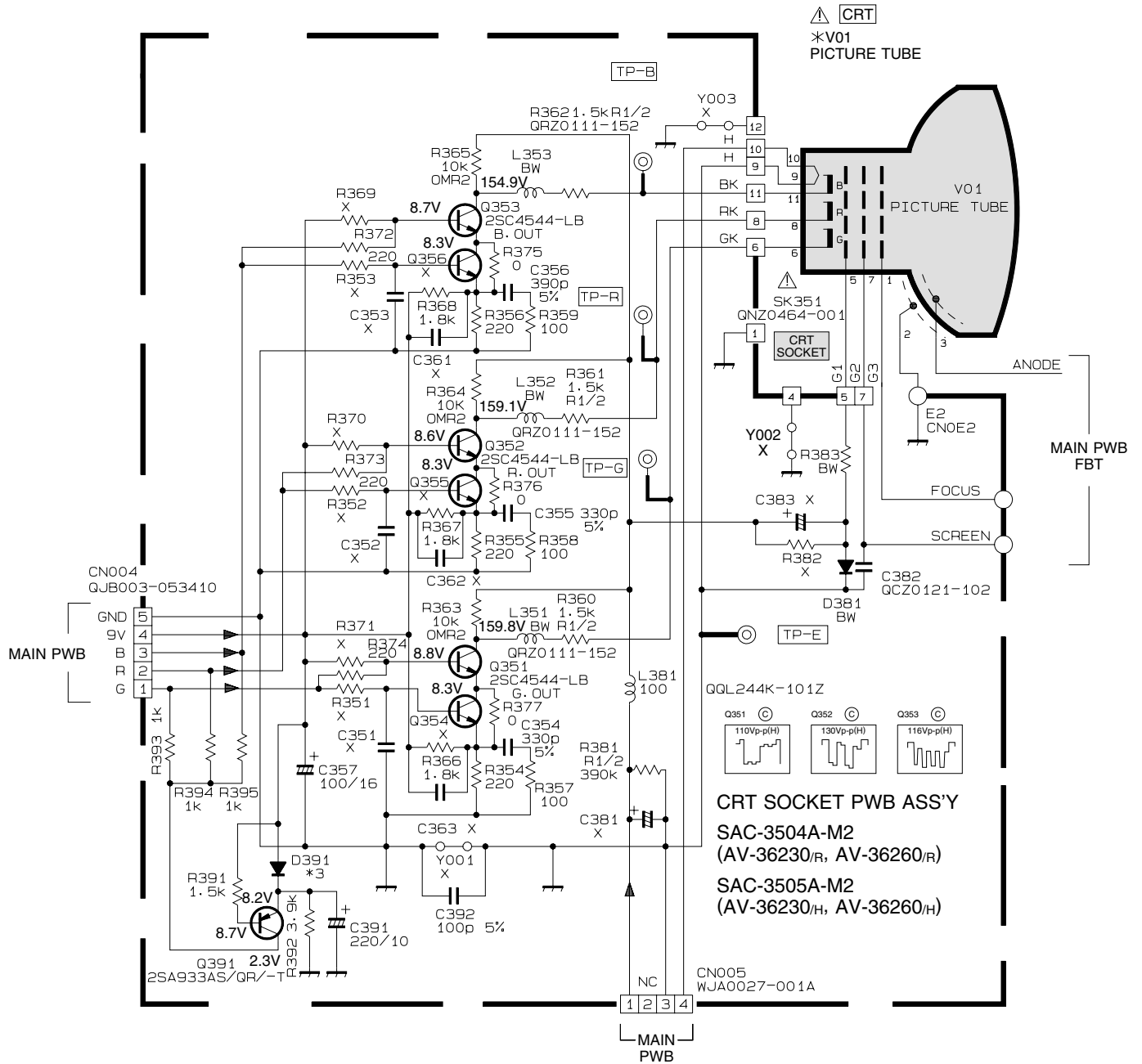
AV SELECTOR PWB ASS'Y  
SAC0S09A-M2 (AV-36260)  
SAC0S510A-M2 (AV-36230)

- NOTE
- \*1 : 2SC2412K/QR-X
  - \*2 : 2SA1037AK/QR-X
  - \*3 : 1SS133-T2
  - \*4 : MTZJ10C-T2
  - \*5 : DTC124EKA-X
  - \*6 : DTA144TKA-X
  - \*7 : 2SA1309A/QR-T
  - \*8 : DTC323TK-X
  - BW : BUS WIRE
  - X : NON MOUNT

\*DIFFERENCE LIST (\*PARTS)

	R901
SAC0S09A-M2	100Ω NRSA63J-101X
SAC0S510A-M2	NOT USED

**CRT SOCKET PWB CIRCUIT DIAGRAM**



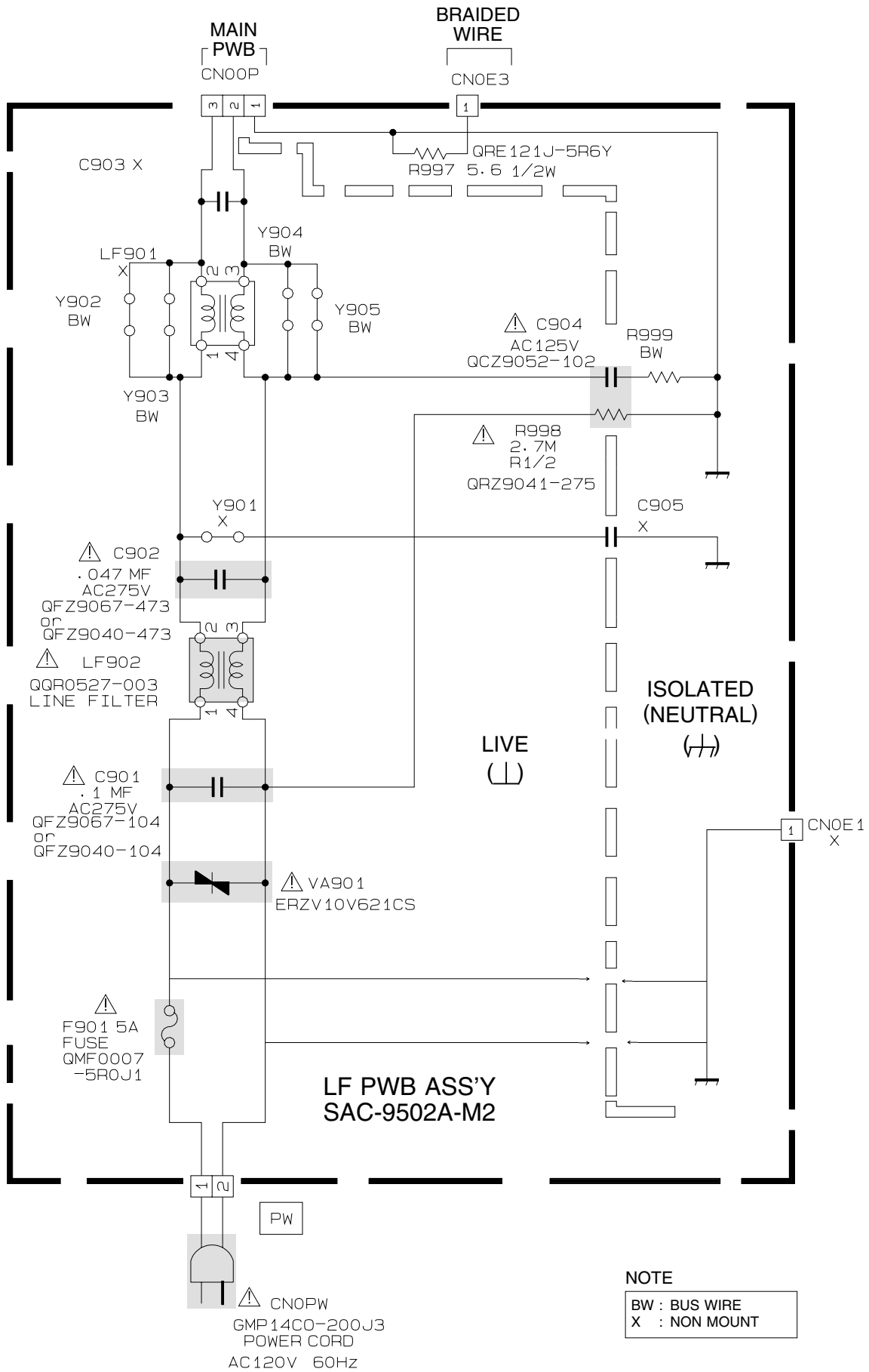
**NOTE**

BW : BUS WIRE  
X : NON MOUNT  
\*3 : 1SS133-T2

**\*DIFFERENCE LIST ( \*PARTS)**

	⚠ V01 (PICTURE TUBE)
SAC-3504A-M2	A90AEJ15X01
SAC-3505A-M2	A90LPY30X04

**LF PWB CIRCUIT DIAGRAM**

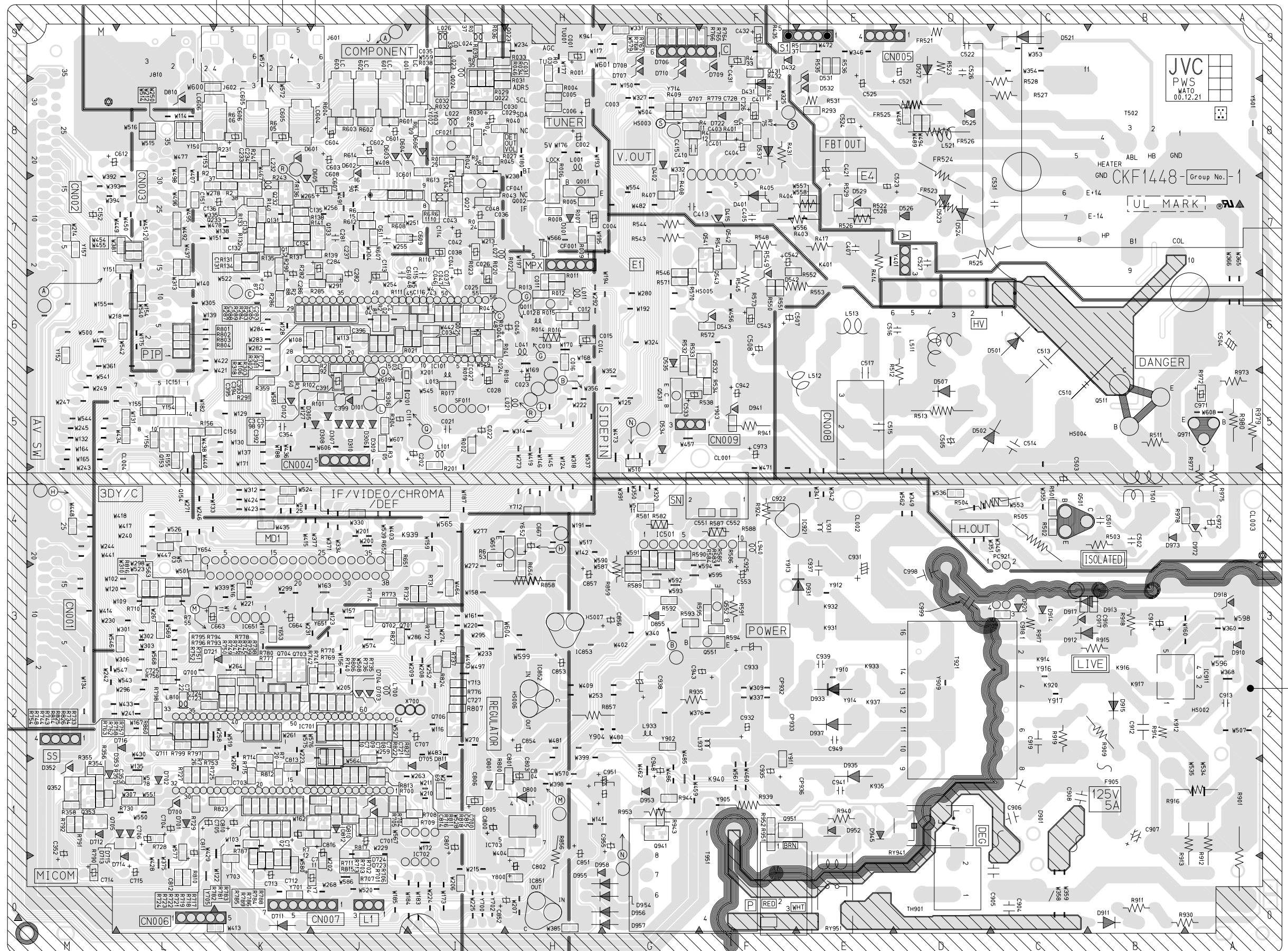


**PATTERN DIAGRAMS**  
**MAIN PWB PATTERN**

TP-91B(B1) TP-E



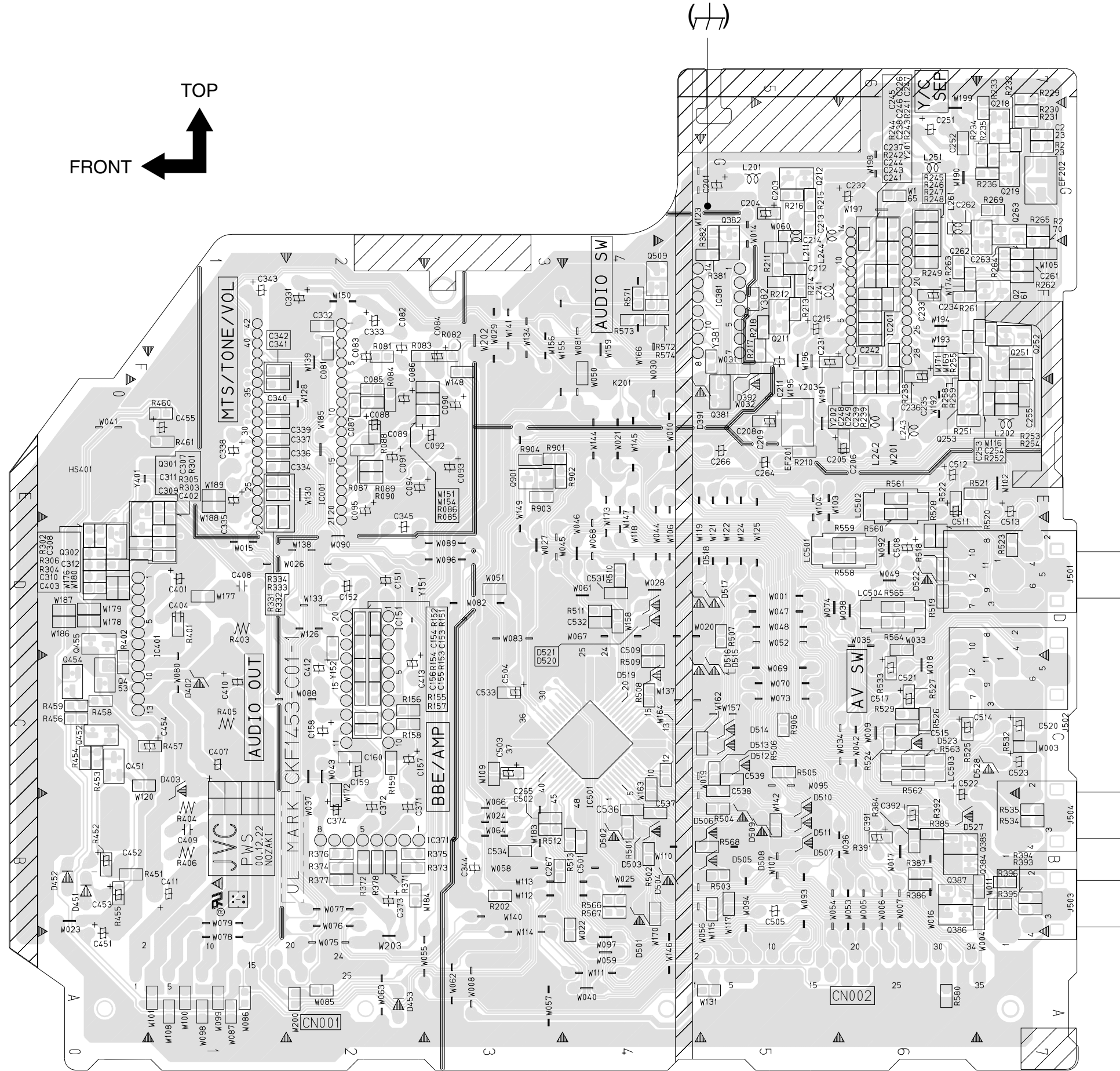
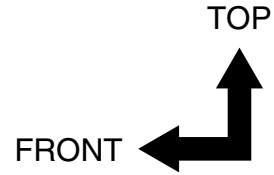
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S) AND ROHM'S MFR'S TYPE CP(S).



AV SELECTOR PWB PATTERN

AV-36230  
AV-36260

AV-36230  
AV-36260



No.51801

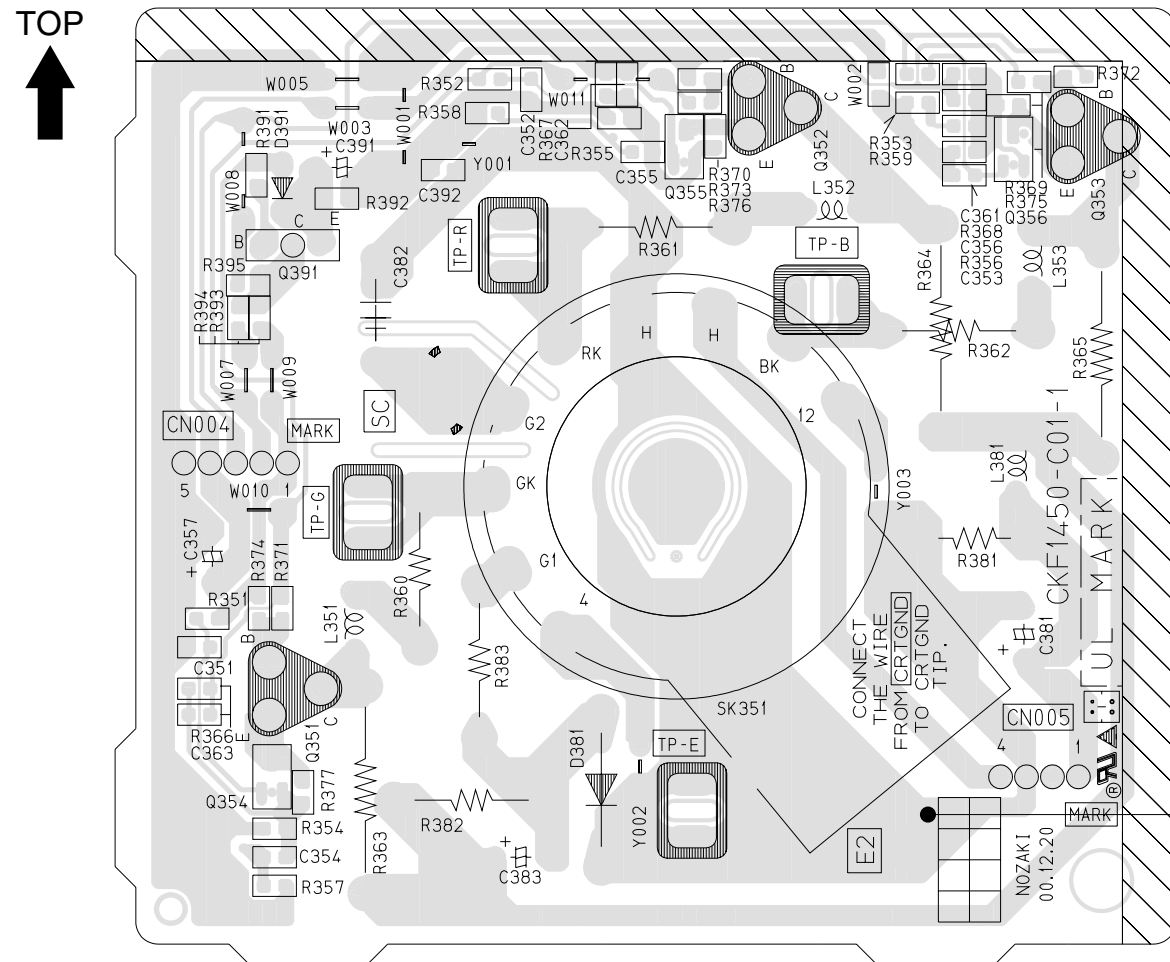
2-23

2-24

No.51801

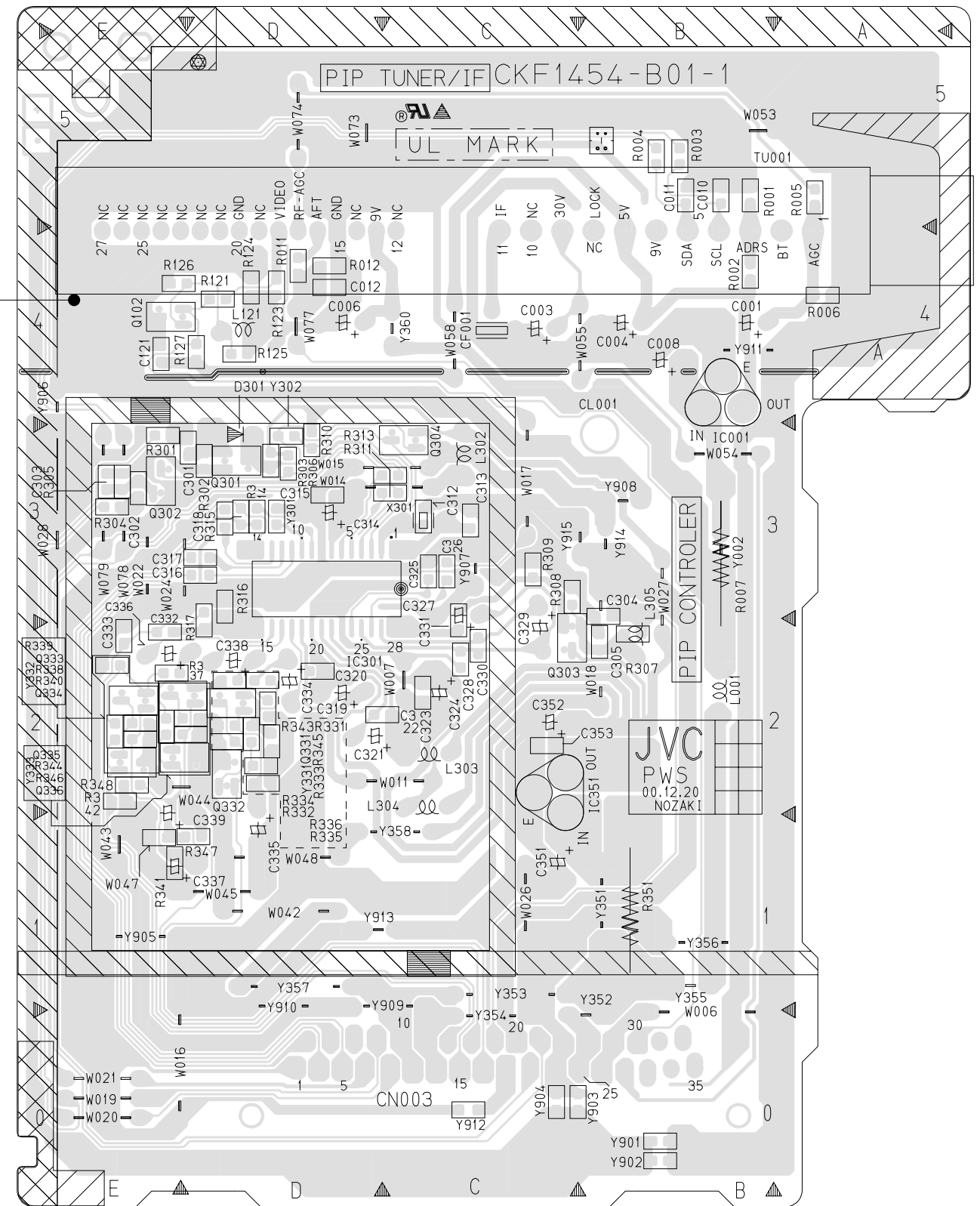
**CRT SOCKET AND PIP PWB PATTERNS**

**— CRT SOCKET —**



TOP  
FRONT

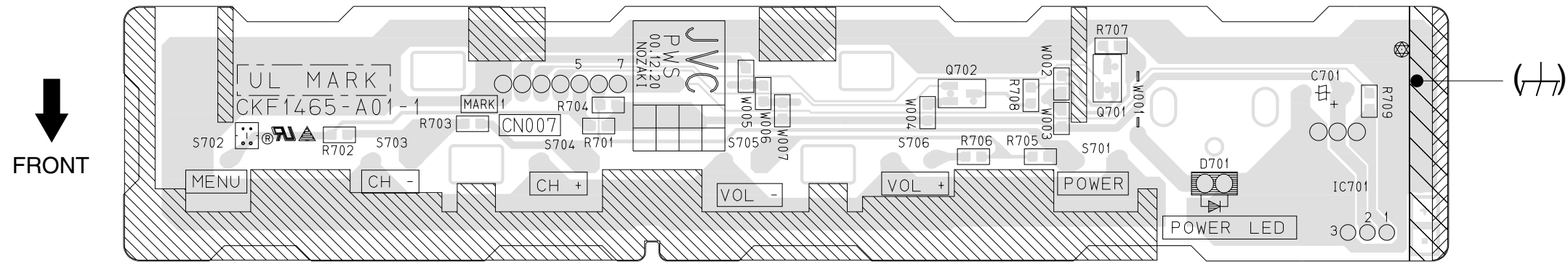
**— PIP —**  
**[AV-36260]**



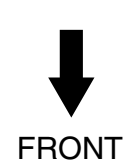


FRONT CONTROL, FRONT AV INPUT AND LF PWB PATTERNS

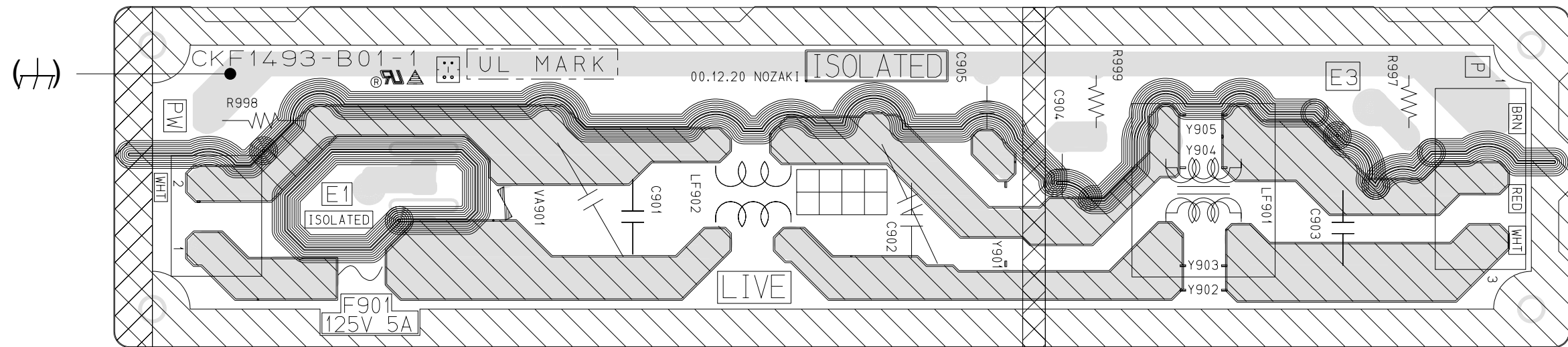
-FRONT CONTROL-



-FRONT AV INPUT-



-LF-



# 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	A-1 99	IV			
	14 } 69				
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		
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			W+50 86		
			W+51 87		
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			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		
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			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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