

JVC

SCHEMATIC DIAGRAMS

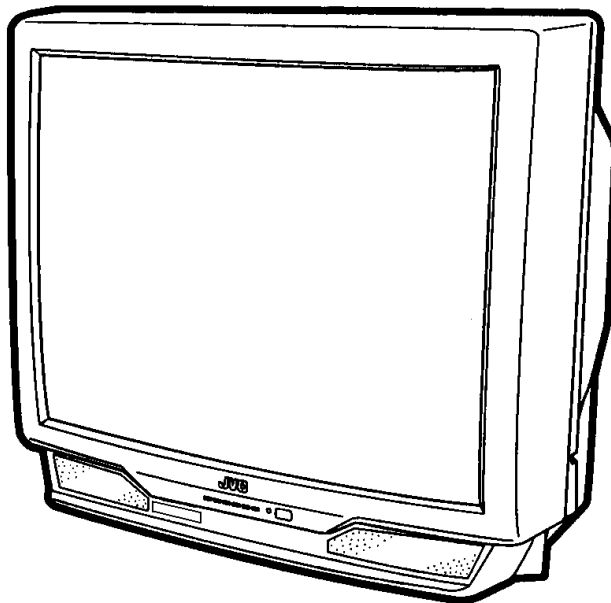
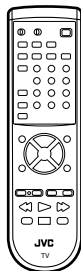
COLOR TELEVISION

BASIC CHASSIS

AC

AV-27260 /R
AV-27260 /S
AV-27260 /Z

CD-ROM No. SML200103



AV-27260 /R AV-27260 /S AV-27260 /Z 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 : 1/10 [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 : [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



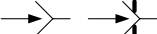
-  : B1
-  : B2(12V)
-  : 9V
-  : 5V

*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) : (\nearrow) 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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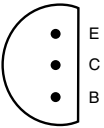

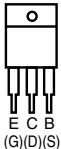
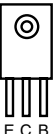
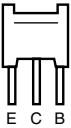
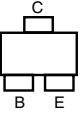
CRT SOCKET AND PIP PWB PATTERNS 2-21

FRONT CONTROL, FRONT AV INPUT AND LF PWB PATTERNS 2-23

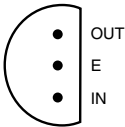
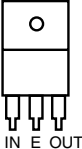
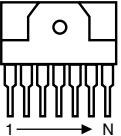
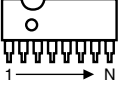
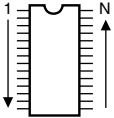
CHANNEL CHART (US/CA) 2-25

SEMICONDUCTOR SHAPES

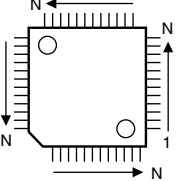
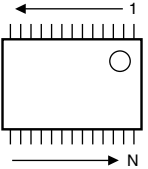
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

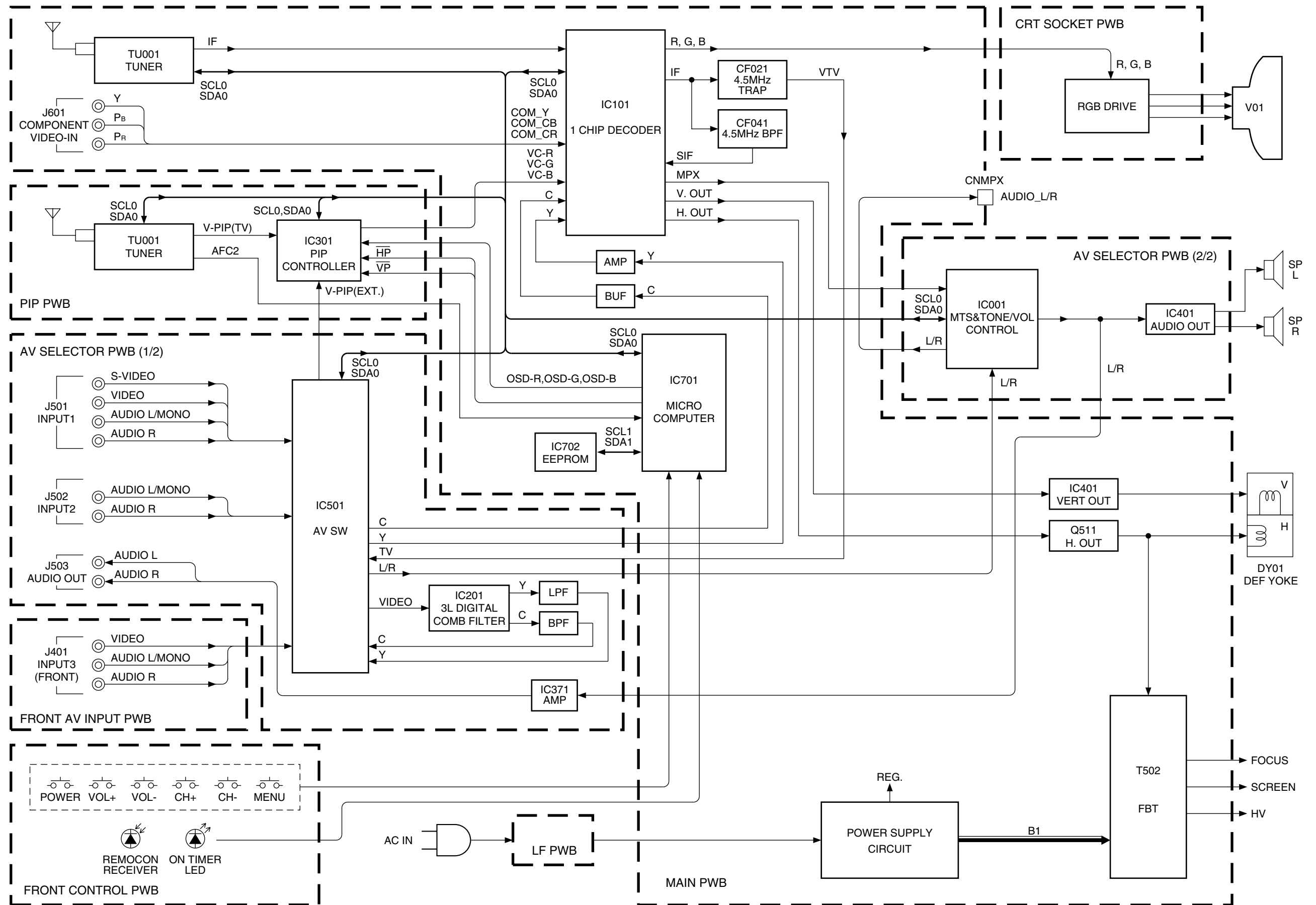
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

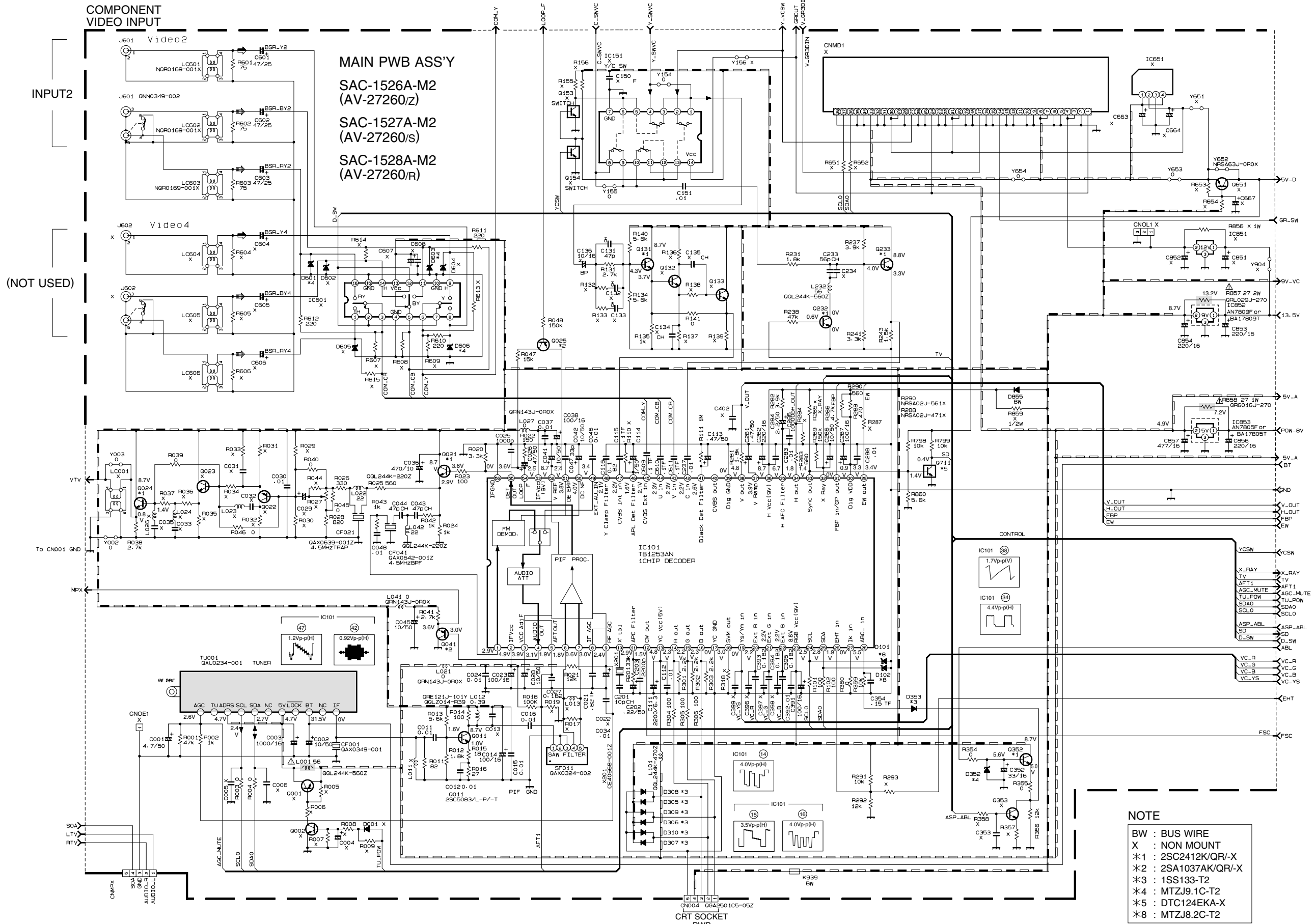
TOP VIEW	
	

BLOCK DIAGRAM



CIRCUIT DIAGRAMS

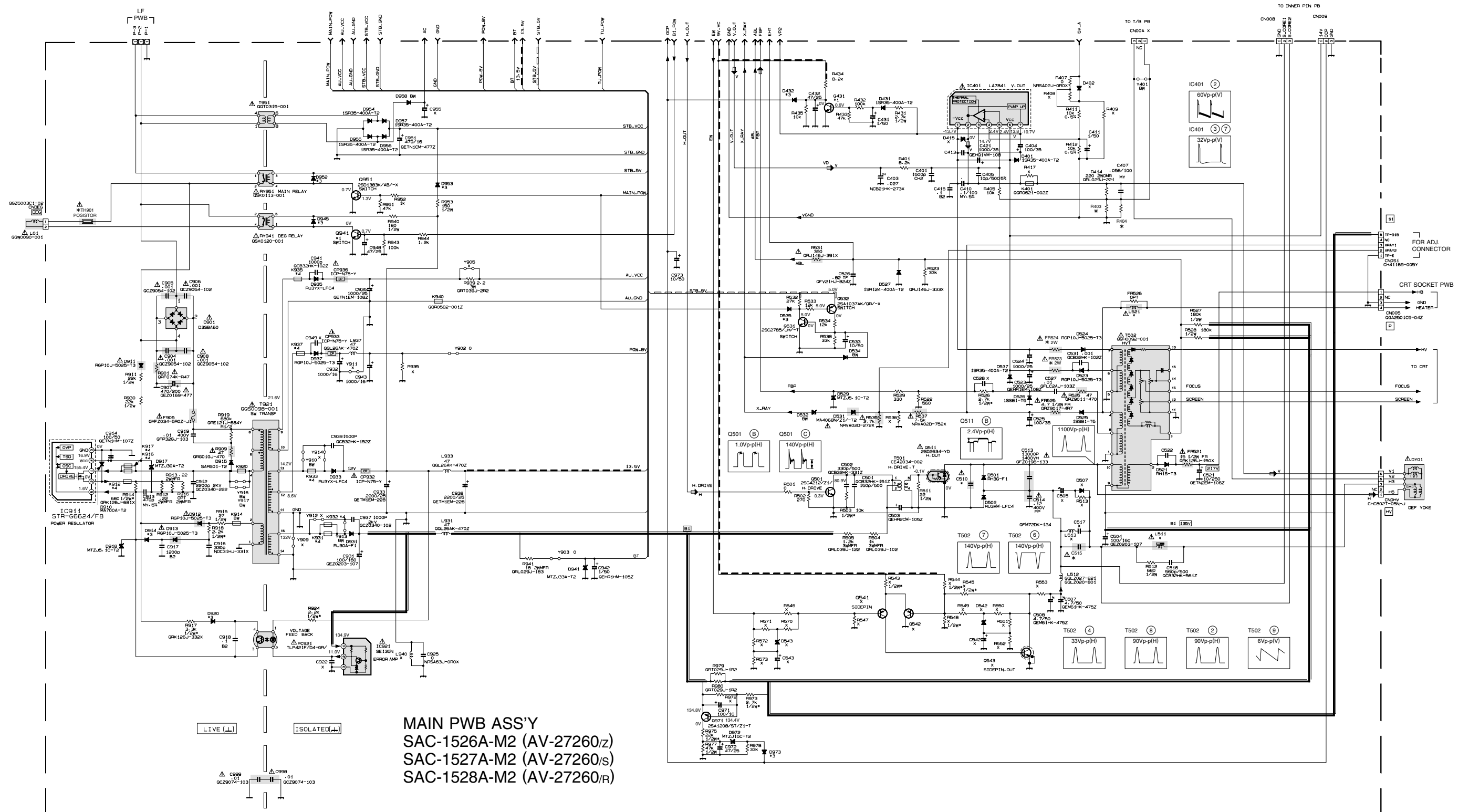
MAIN PWB CIRCUIT DIAGRAM



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 PWB CIRCUIT DIAGRAM



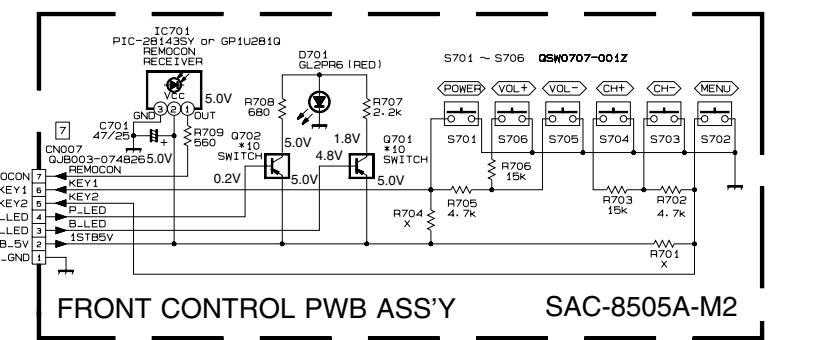
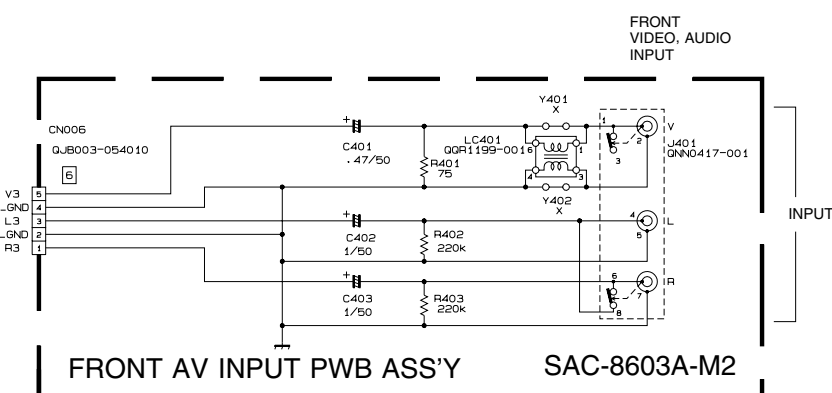
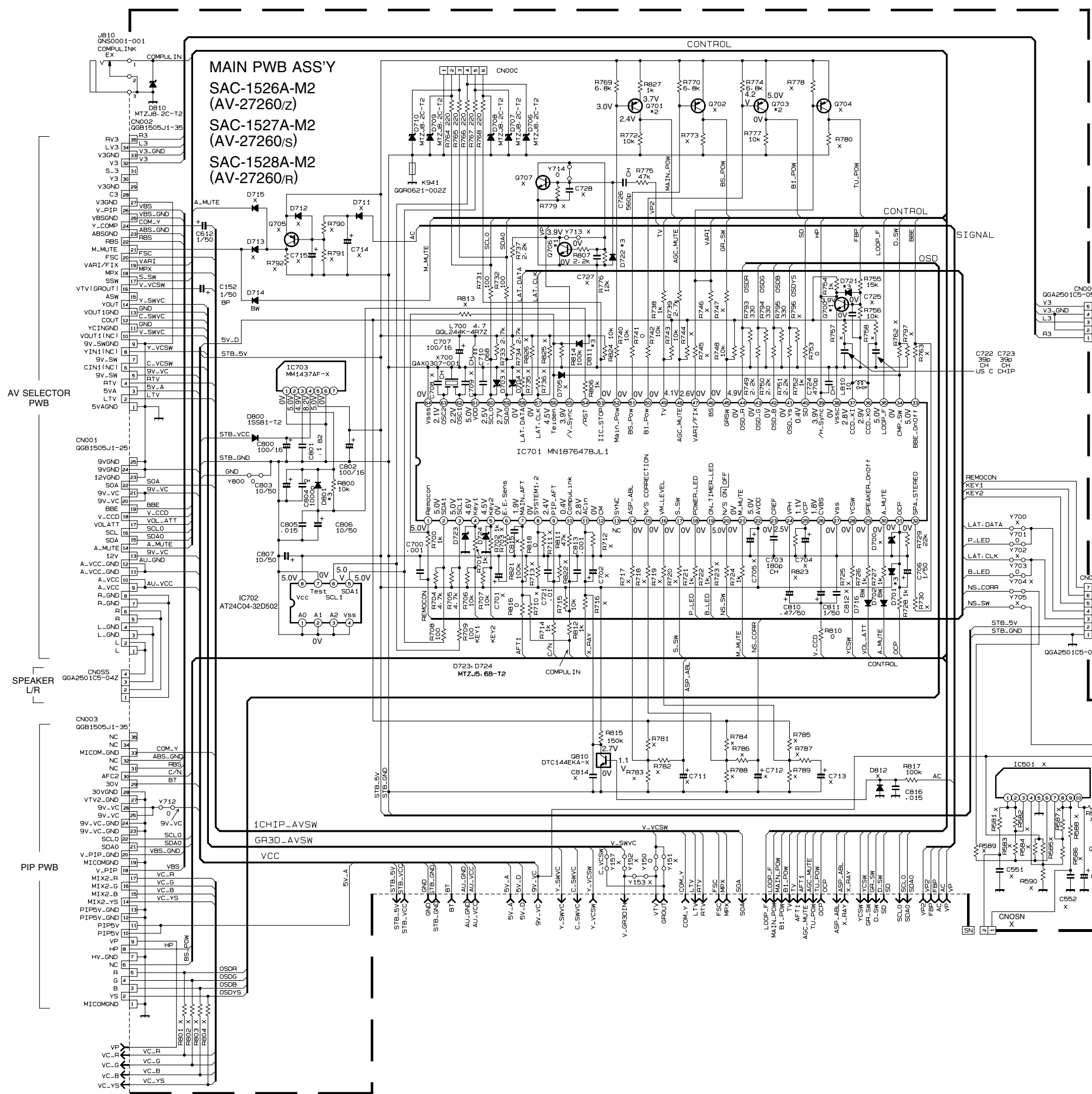
MAIN PWB ASS'Y
 SAC-1526A-M2 (AV-27260/z)
 SAC-1527A-M2 (AV-27260/s)
 SAC-1528A-M2 (AV-27260/r)

*DIFFERENCE LIST (*PARTS)

	R403	R404	L511	L521	C510	C515	FR523	FR524	TH901
SAC-1526A-M2	1Ω	10Ω	QQR1027-004	100μH	3500pF	0.43μF	2.7Ω	2.7Ω	QAD0129-3R0
SAC-1527A-M2	0.82Ω	NOT USED	QQR1027-004	88μH	4500pF	0.4μF	4.7Ω	4.7Ω	QAD0129-3R0
SAC-1528A-M2	0.82Ω	10Ω	QQR1027-002	43μH	3500pF	0.4μF	4.7Ω	4.7Ω	CEKP007-002

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

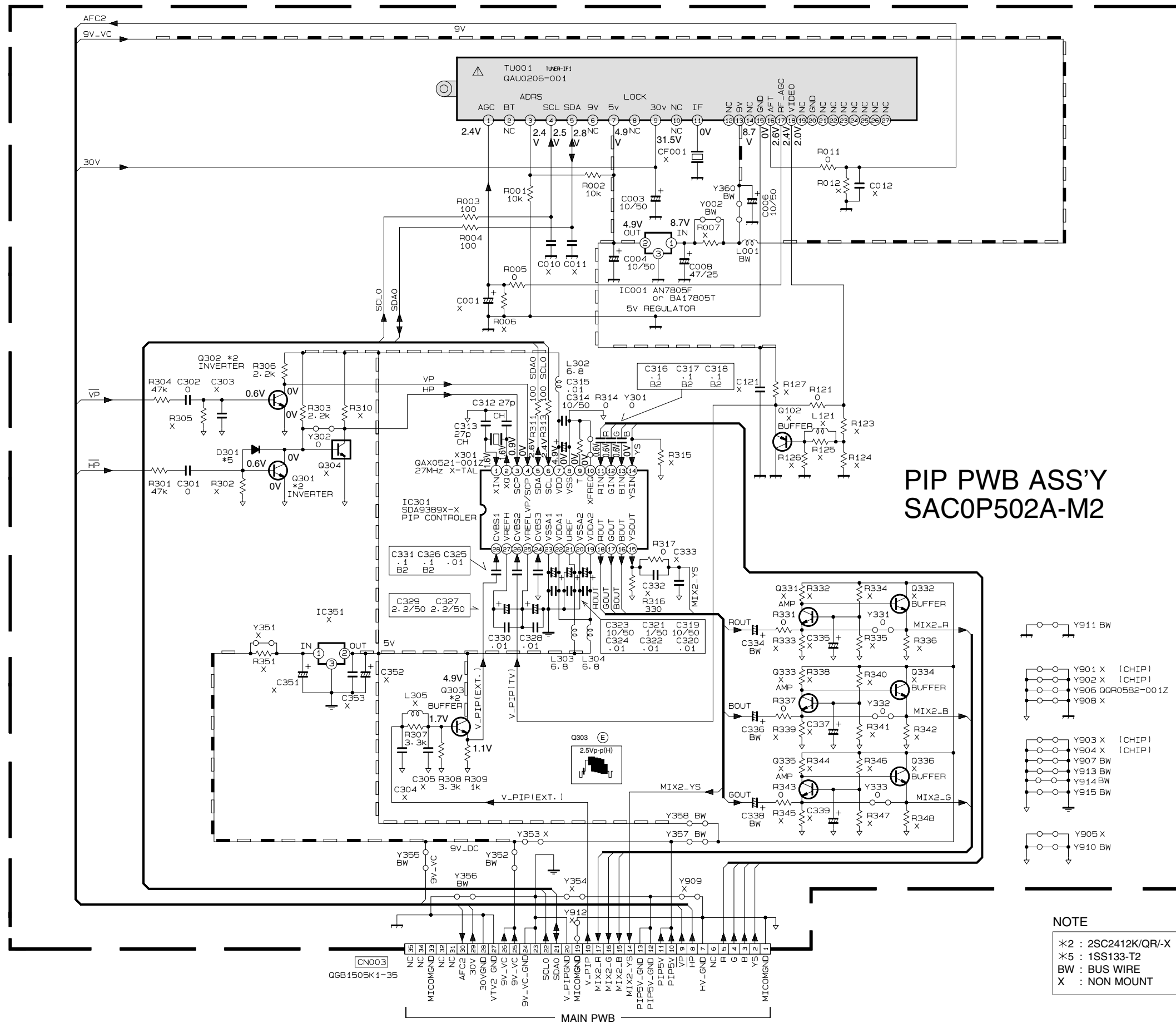
MAIN, FRONT CONTROL AND FRONT AV INPUT PWB CIRCUIT DIAGRAMS



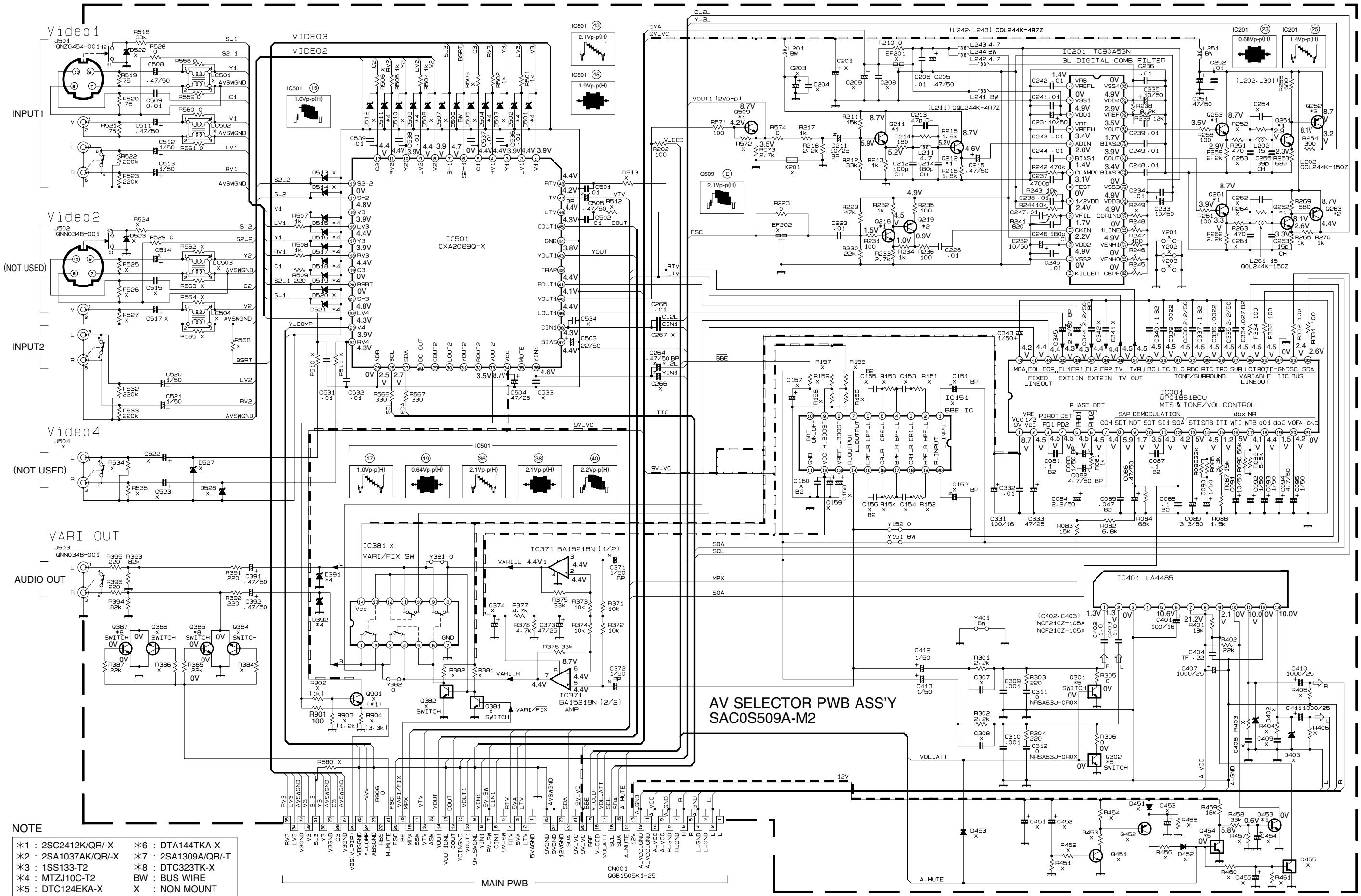
NOTE

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

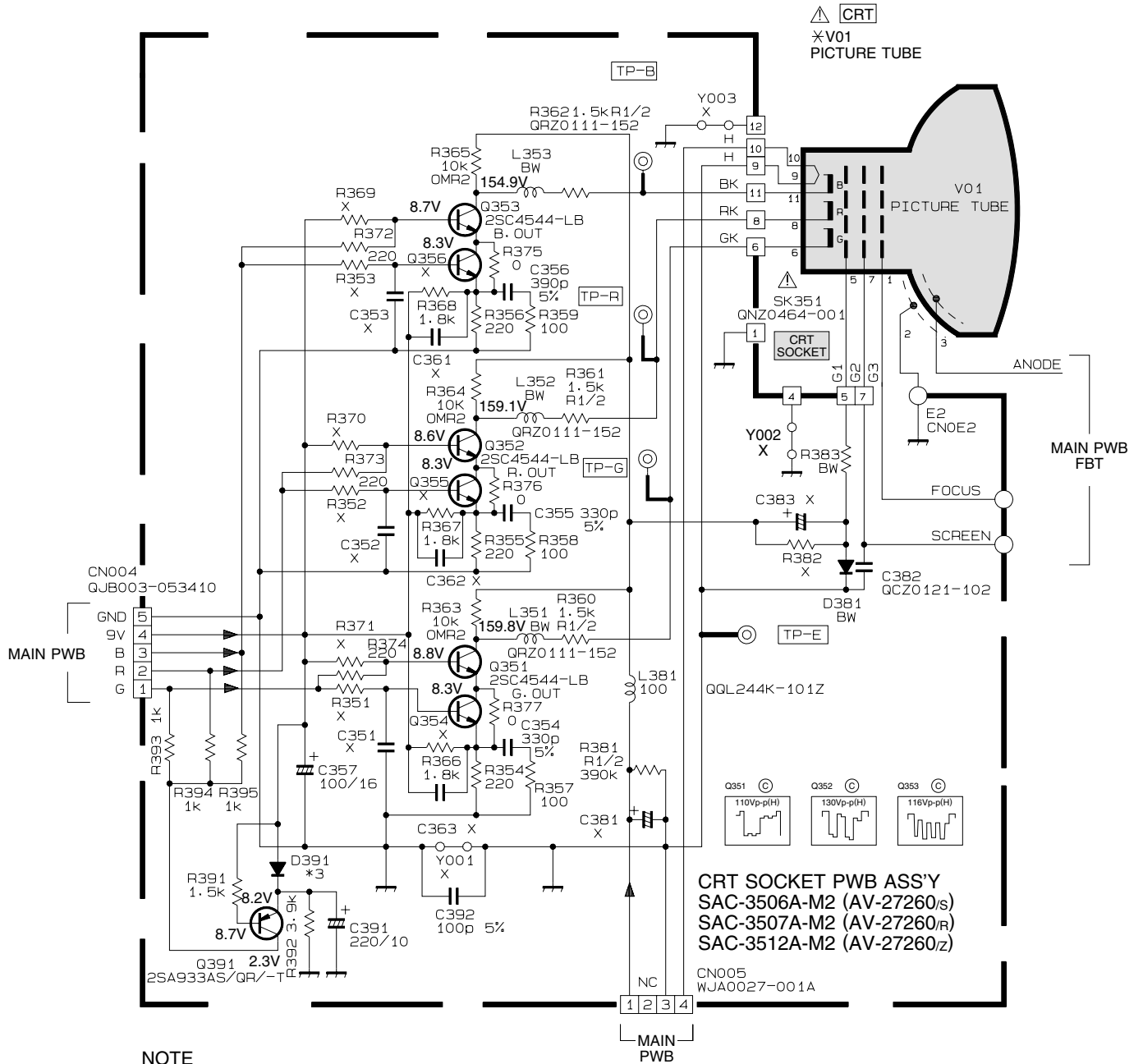
PIP PWB CIRCUIT DIAGRAM



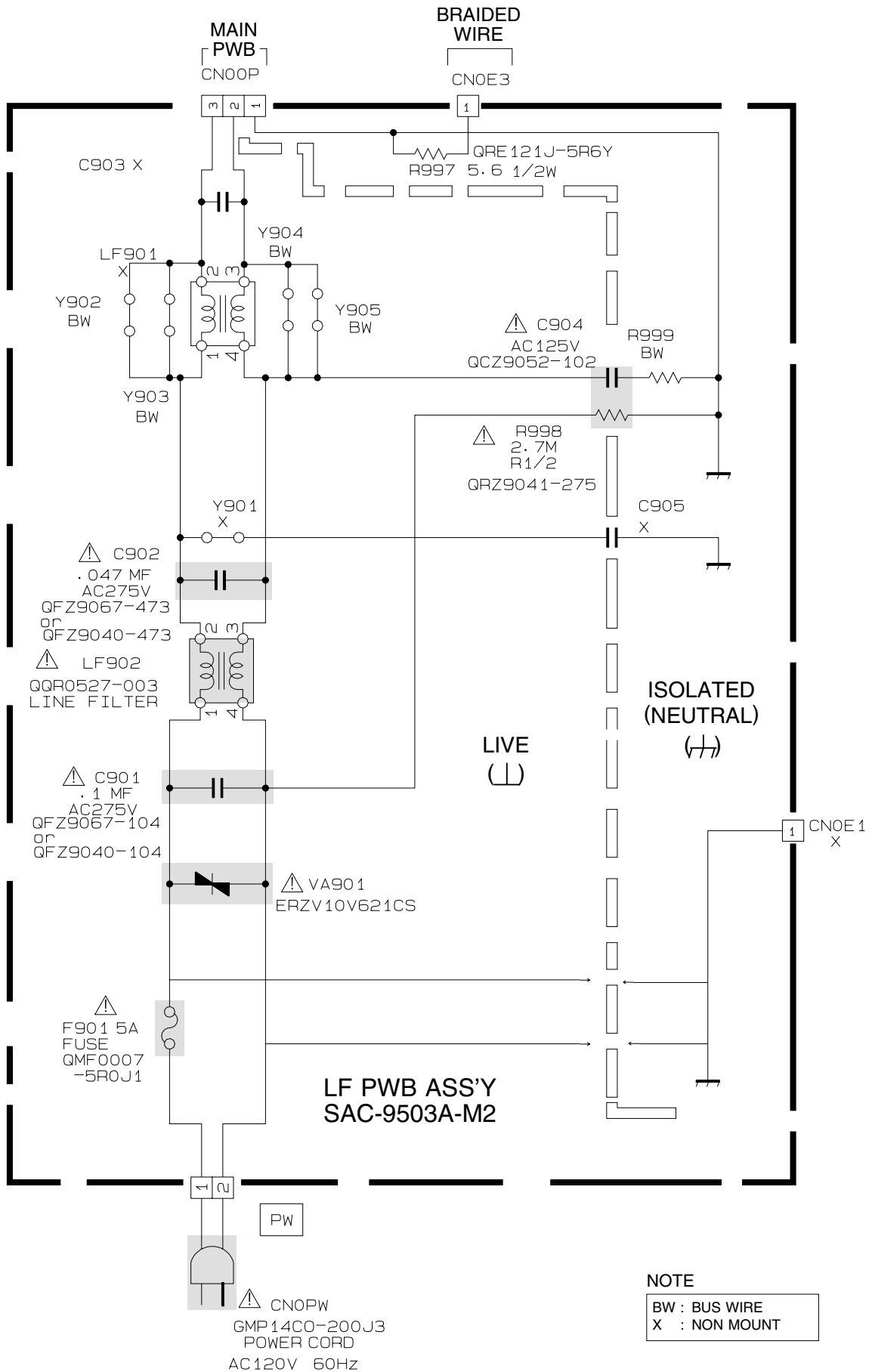
AV SELECTOR PWB CIRCUIT DIAGRAM



CRT SOCKET PWB CIRCUIT DIAGRAM



LF PWB CIRCUIT DIAGRAM

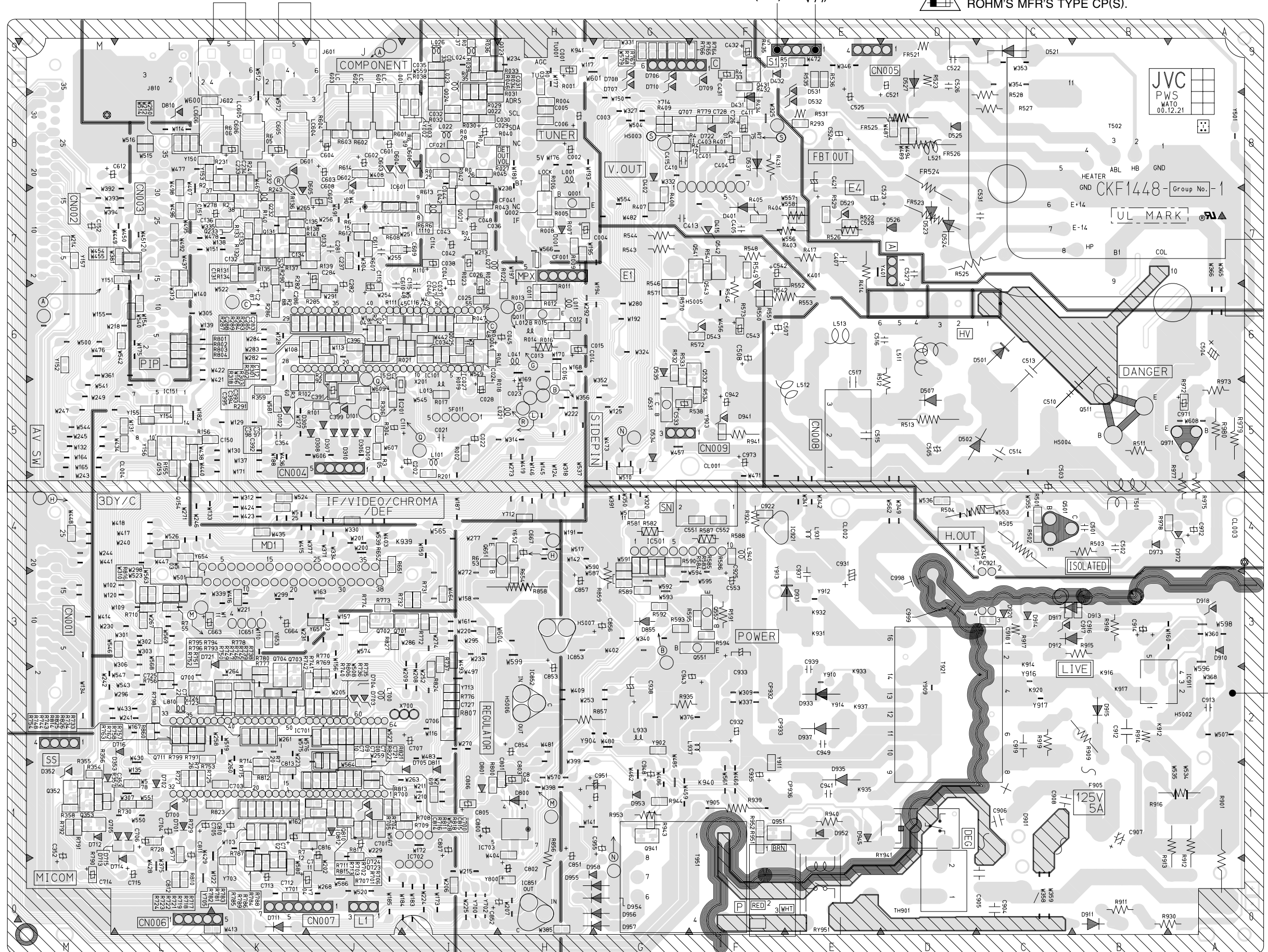


PATTERN DIAGRAMS
MAIN PWB PATTERN

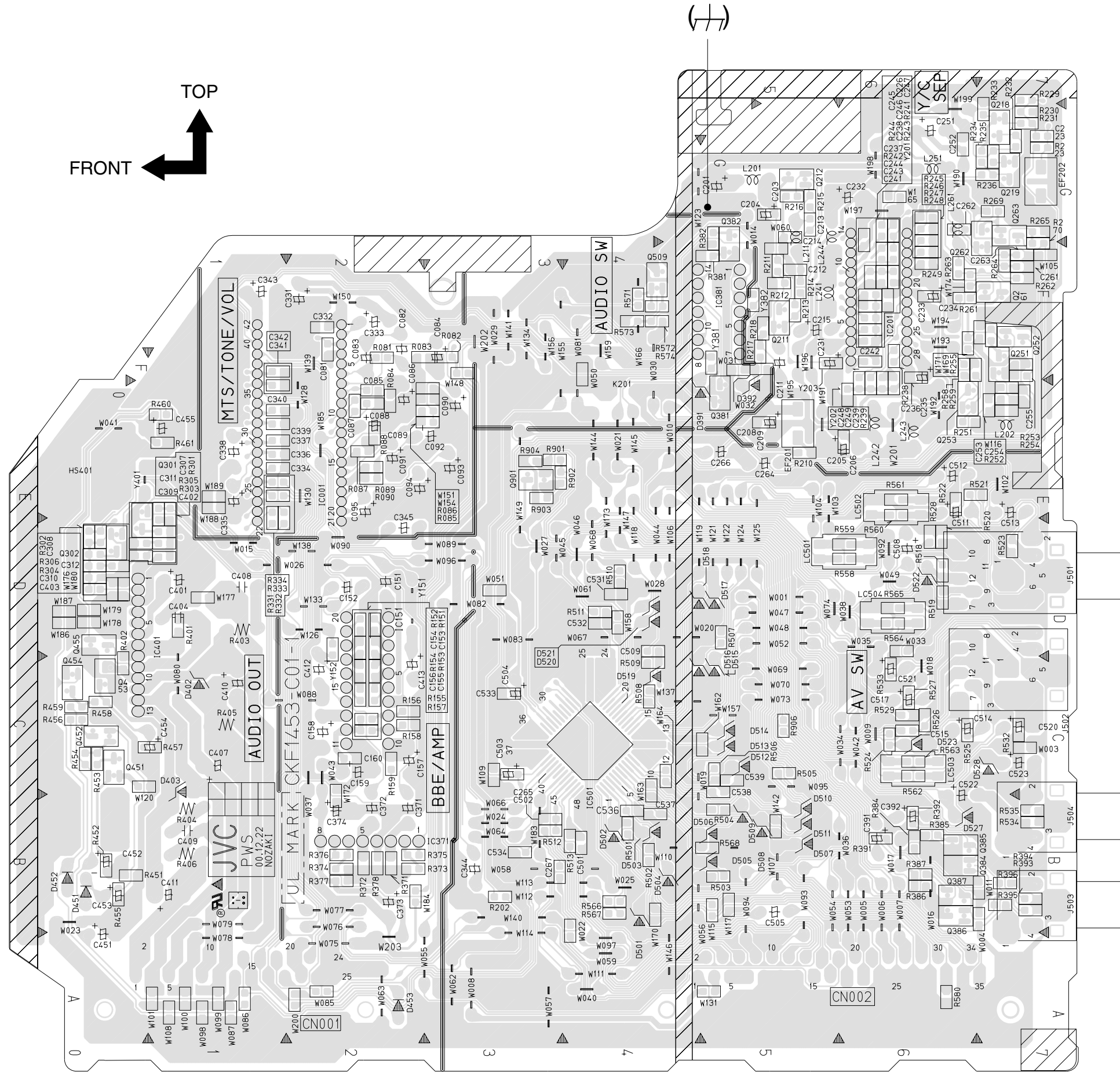
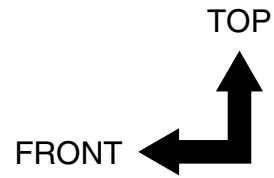
TP-91B(B1) (H) TP-E



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

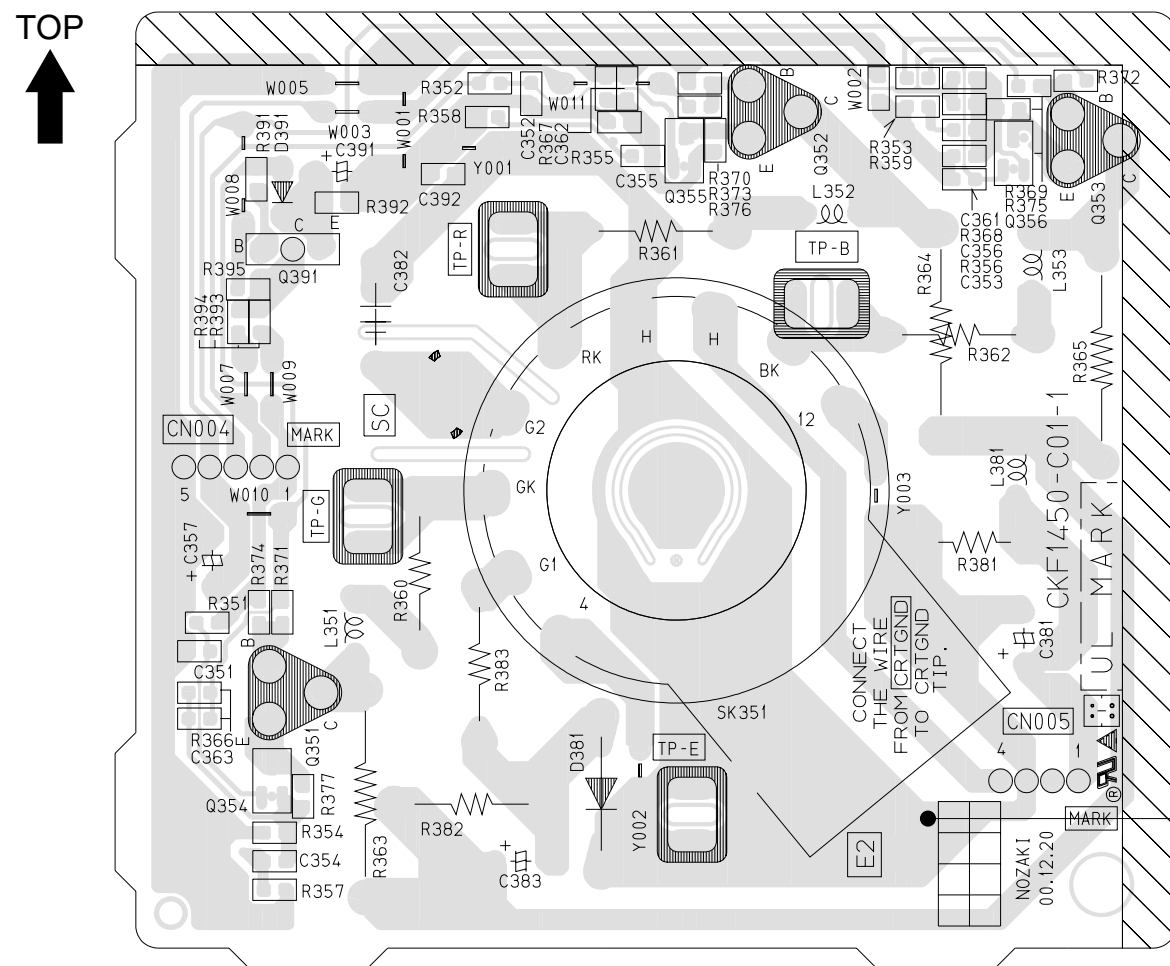


AV SELECTOR PWB PATTERN



CRT SOCKET AND PIP PWB PATTERNS

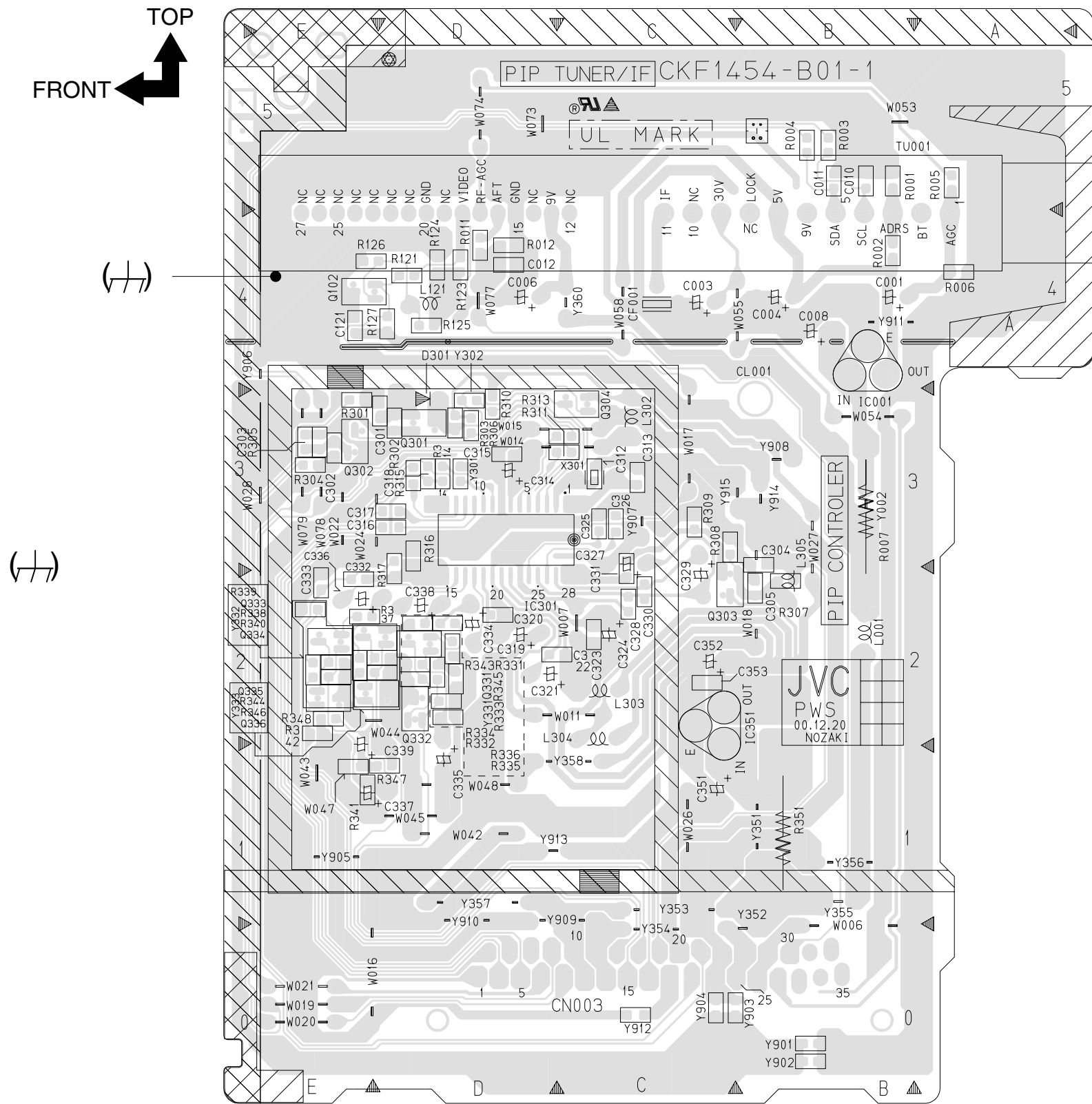
- CRT SOCKET -



TOP
↑

TOP
FRONT ←

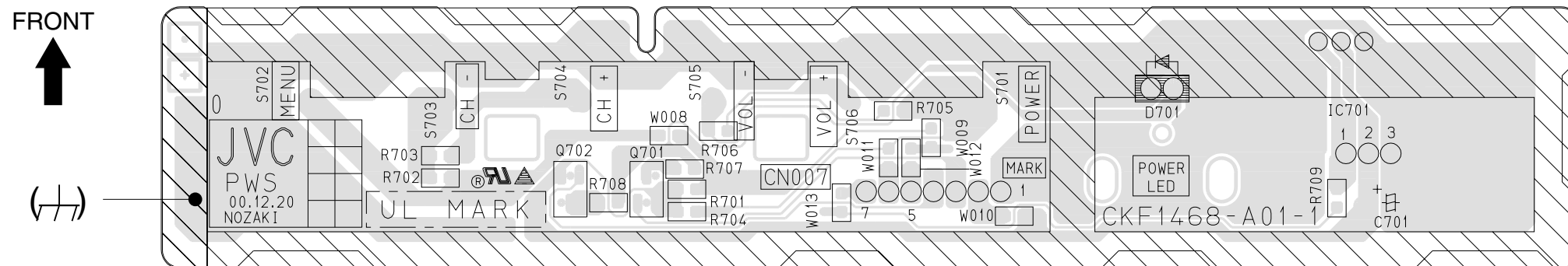
- PIP -



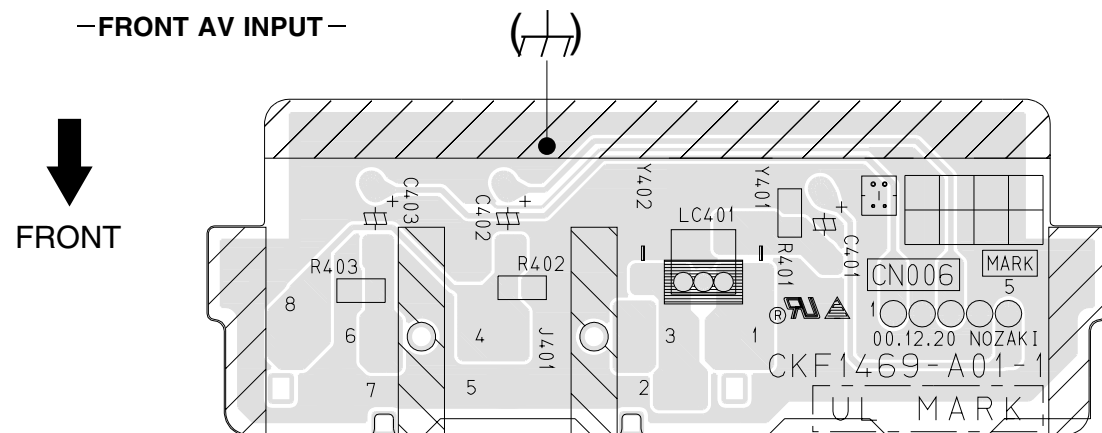
TOP
FRONT ←

FRONT CONTROL, FRONT AV INPUT AND LF PWB PATTERNS

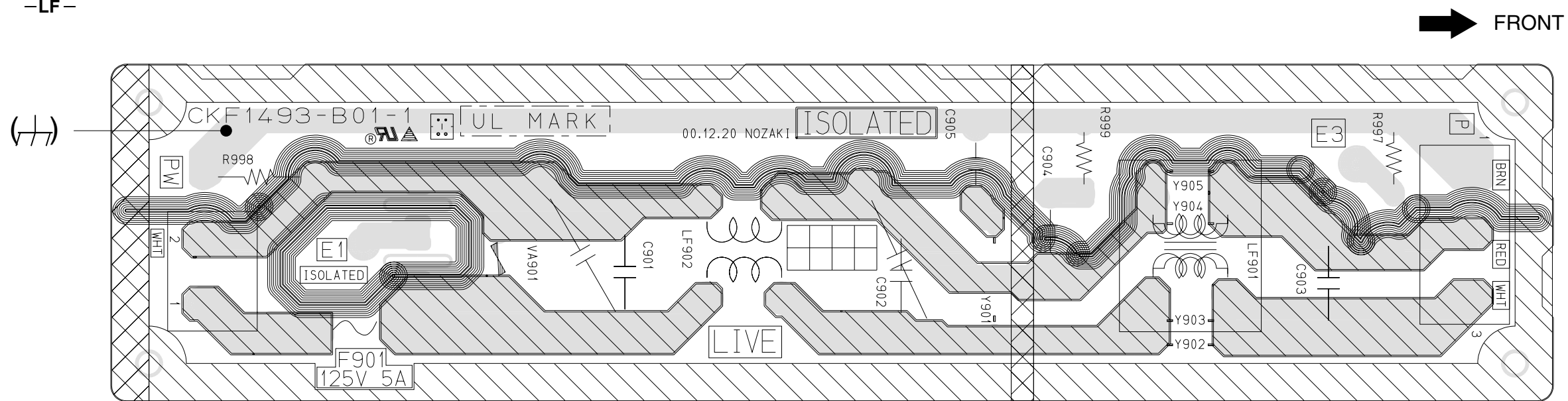
-FRONT CONTROL-



-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			
			×		○	MID
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	IV				
	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						
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		
			A-1 99		
○	×	UHF	14 } 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.					

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		
			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					
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W+62 103					
W+63 104					
W+64 105					
W+65 106					
W+66 107					
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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

DIVISION OF JVC AMERICAS CORP.

Head office	: 1700 Valley Road, Wayne, New Jersey 07470	(973)315-5000
East Coast	: 10 New Maple Avenue, Pine Brook, New Jersey 07058	(973)396-1000
Midwest	: 705 Enterprise St. Aurora, Illinois 60504	(630)851-7855
West Coast	: 5665 Corporate Avenue, Cypress, California 90630	(714)229-8011
Southwest	: 10700 Hammerly, Suite 105, Houston, Texas 77043	(713)935-9331
Hawaii	: 2969 Mapunapuna Place, Honolulu, Hawaii 96819	(808)833-5828
Southeast	: 1500 Lakes Parkway, Lawrenceville, Georgia 30243	(770)339-2582

JVC CANADA INC.

Head office	: 21 Finchdene Square Scarborough, Ontario M1X 1A7	(416)293-1311
Vancouver	: 13040 Worster Court Richmond B.C. V6V 2B3	(604)270-1311

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