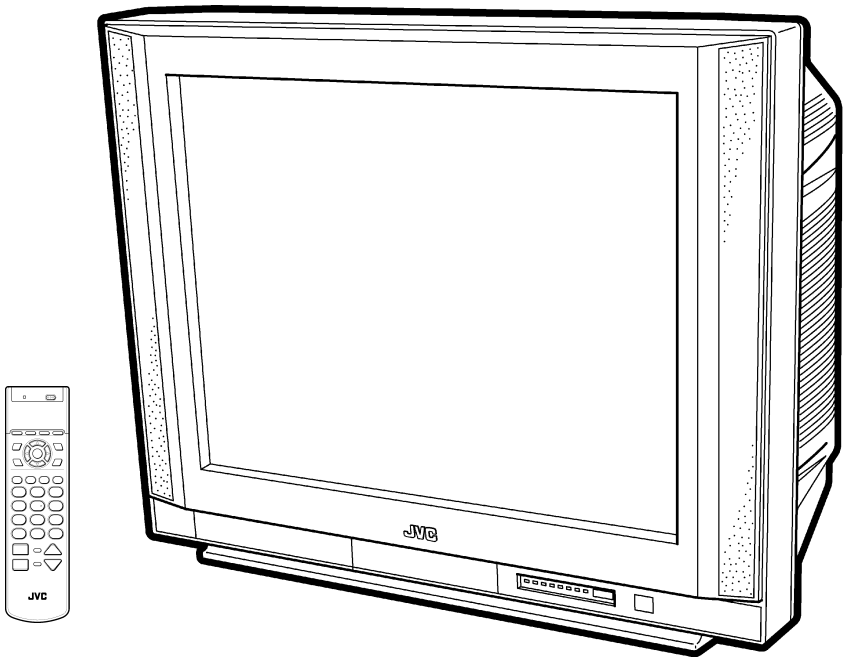
JVC

SERVICE MANUAL

COLOUR TELEVISION

BASIC CHASSIS
JK

AV-29RXB(C)



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No.51727B
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SPECIFICATIONS

Item		CONTENTS
Dimensions (W × H × D)		732mm × 588mm × 508mm
Mass		52.0kg
TV RF System		B / G, I, D / K, K1 & M
Colour System		PAL, SECAM, NTSC3.58, NTSC4.43
Stereo System		Play back stereo only
Receiving Frequency		
	VHF(L)	46.25MHz～168.25MHz
	VHF (H)	175.25MHz～463.25MHz
	UHF	471.25MHz ～ 863.25MHz
	CATV	Mid(X-Z, S1-S10), Super(S11-S20), Hyper(S21-S41) bands receivable
Intermediate Frequency		
	VIF Carrier	38.0MHz
	SIF Carrier	33.5MHz(4.5MHz), 32.5MHz(5.5MHz), 32.0MHz(6.0MHz), 31.5MHz(6.5MHz)
Colour Sub Carrier Frequency		
	PAL	4.43MHz
	SECAM	4.40625MHz, 4.25MHz
	NTSC	3.58MHz / 4.43MHz
Power Input		AC 110V～240V , 50/60Hz
Power Consumption		225W(Max) / 156W(Avg)
Picture Tube		Visible size : 68cm measured diagonally
High Voltage		32.0kV±1.5kV (at zero beam current)
Speaker & Audio Output		Closed dome speaker 20W+20W (10cm round × 2 / 3.5cm round × 2)
Video Audio Input terminals		
Video1	**S-Video**	Y : 1$V_{(p-p)}$ positive (Negative sync provided, when terminated with 75Ω) C : 0.286$V_{(p-p)}$ (Burst signal, when terminated with 75Ω)
	Video	1$V_{(p-p)}$ 75Ω (RCA pin jack)
	Audio(L/R)	500mV(rms) (-4dBs), High impedance (RCA pin jack)
Video2	**Video**	1$V_{(p-p)}$ 75Ω (RCA pin jack)
	Audio(L/R)	500mV(rms) (-4dBs), High Impedance (RCA pin jack)
Video3	**Video/Y**	V : Composite video 1$V_{(p-p)}$ 75Ω (RCA pin jack) Y : Component video 1$V_{(p-p)}$ 75Ω (RCA pin jack)
	Cb	Component video B-Y 0.7$V_{(p-p)}$ 75Ω (RCA pin jack)
	Cr	Component video R-Y 0.7$V_{(p-p)}$ 75Ω (RCA pin jack)
	Audio(L/R)	500mV(rms) (-4dBs), High Impedance (RCA pin jack)
Video4 (Front terminal)	**S-Video**	Y : 1$V_{(p-p)}$ positive (Negative sync provided, when terminated with 75Ω) C : 0.286$V_{(p-p)}$ (Burst signal, when terminated with 75Ω)
	Video	1$V_{(p-p)}$ 75Ω (RCA pin jack)
	Audio(L/R)	500mV(rms) (-4dBs), High impedance (RCA pin jack)
Video Audio Output terminal		
	Video	1$V_{(p-p)}$ 75Ω (RCA pin jack)
	Audio(L/R)	500mV(rms) (-4dBs), High Impedance (RCA pin jack)
Aerial Input Term		75Ω unbalanced, Coaxial
Headphone jack		Stereo mini jack (ϕ 3.5mm)
AV Compu Link terminal		AV Compu Link Ⅱ, mini jack (ϕ 3.5mm)
Remote Control Unit		RM-C111 (AA/R06 / UM-3 dry battery × 2)

Design & specifications are subject to change without notice.

SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

4. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
   Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (⏦) side GND and EARTH : (⏚) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
   If above note will not be kept, a fuse or any parts will be broken.

5. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).

6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

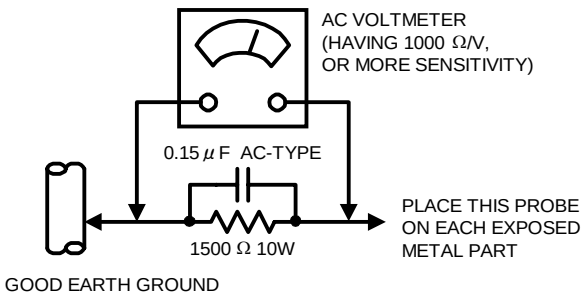
8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

9. **Isolation Check**
   (Safety for Electrical Shock Hazard)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.
(. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

(2) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

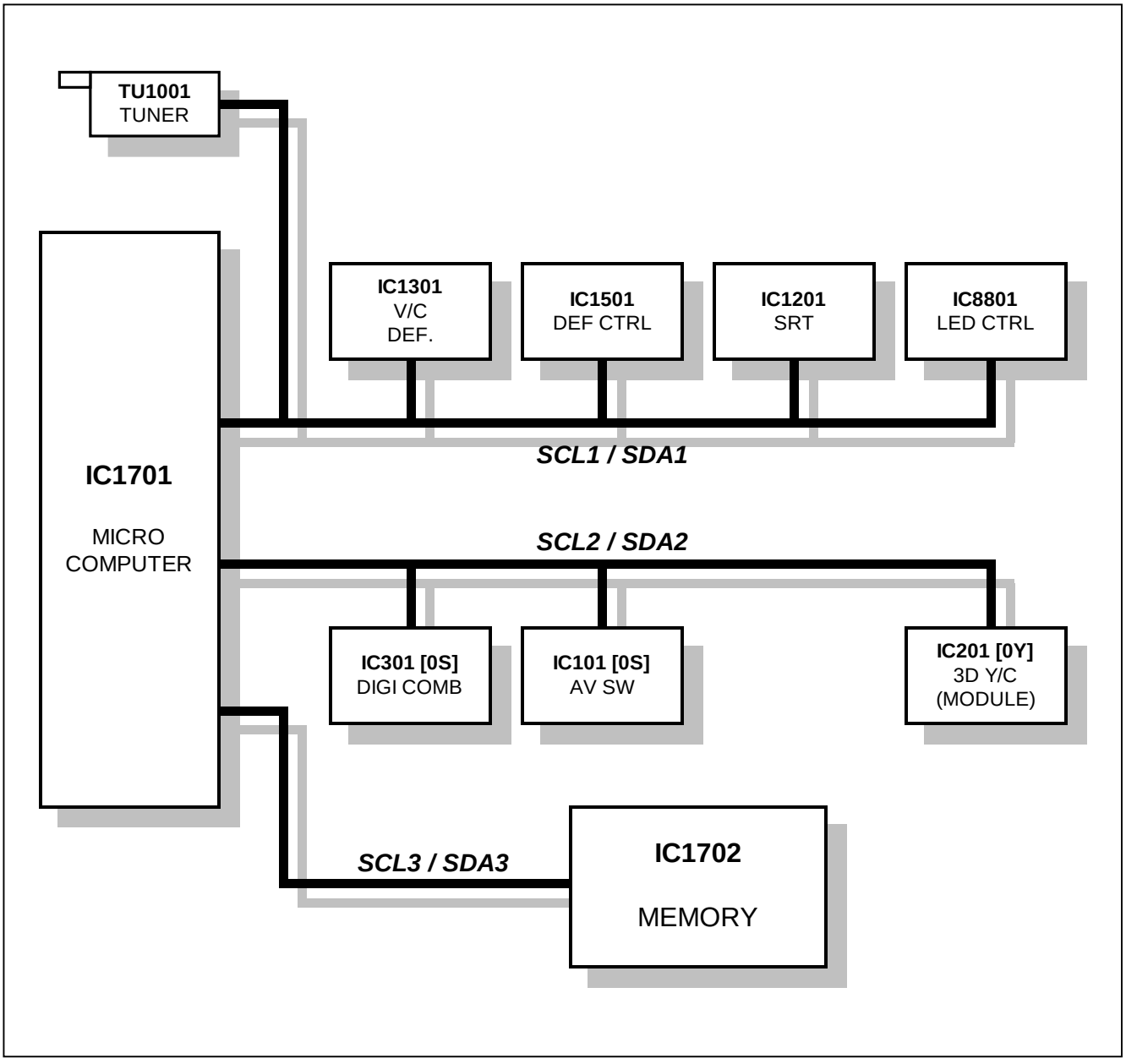
● **Alternate Check Method**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



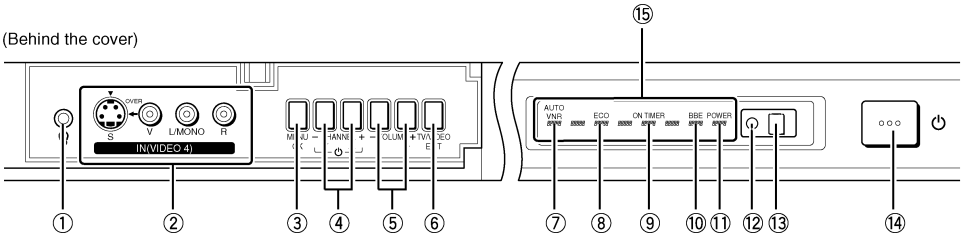
FEATURES

- By preference, users can select the picture size from REGULAR, ZOOM, 16:9 modes.
- Because this TV unit corresponds to multiplex broadcast, users can enjoy music programs and sporting events with live realism. In addition, BILINGUAL programs can be heard in their original language.
- Users can make fun to connect the Digital Video Disk player by using the component video signal input terminal.
- Built-in ECO (ECONOMY, ECOLOGY) MODE.
  In accordance with the brightness in a room, the brightness and/or contrast of the picture can be adjusted automatically to make the optimum picture which is easy on the eye.
- I^2C Bus controls the many ICs which have various functions each other.

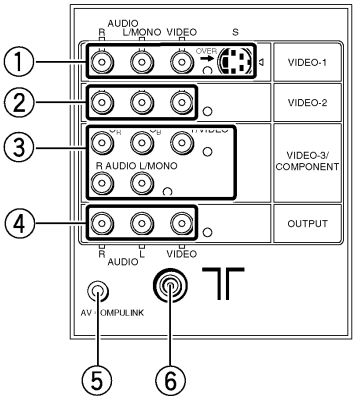
I^2C BUS CONTROL SYSTEM CHART



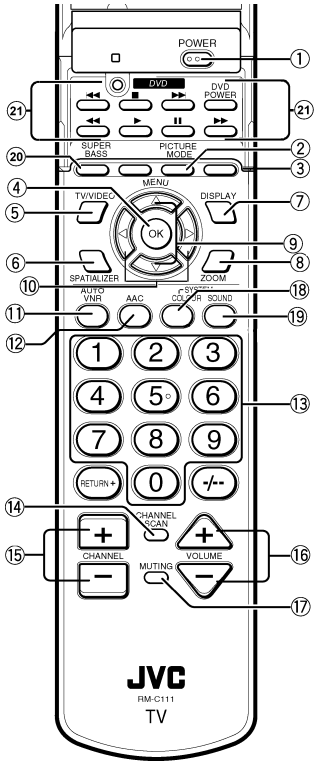
FUNCTIONS



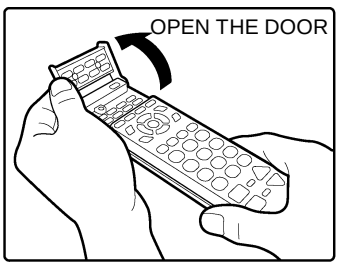
① Headphone jack
② Video-4 terminal
③ MENU OK
④ Channel -/+ (MENU UP/DOWN)
⑤ Volume -/+ (MENU LEFT/RIGHT)
⑥ TV/VIDEO
⑦ AUTO VNR
⑧ ECO
⑨ ON TIMER
⑩ BBE
⑪POWER
⑫ECO sensor
⑬Remote control sensor
⑭Main POWER SW
⑮Dancing LED



① Video-1 terminal (S,V,L,R)
② Video-2 terminal (V,L,R)
③ Video-3 terminal / Component (V/Y,Cb,Cr,L,R)
④ Output terminal (V,L,R)
⑤ AV COMPULINK terminal
⑥ Aerial socket (ANT Terminal)



① POWER Key
② PICTURE MODE Key
③ COLOUR Key
④ MENU OK Key
⑤ TV/VIDEO Key
⑥ SPATIALIZER Key
⑦ DISPLAY Key
⑧ ZOOM Key
⑨ MENU UP/DOWN (▲ / ▼) Key
⑩ MENU LEFT/RIGHT(◀ / ▶) Key
⑪ AUTO VNR Key
⑫ AAC Key
⑬ CHANNEL Key
⑭ CHANNEL SCAN Key
⑮ CHANNEL +/- Key
⑯ VOLUME +/- Key
⑰ MUTING Key
⑱ COLOUR SYSTEM Key
⑲ SOUND SYSTEM Key
⑳ SUPER BASS Key
㉑ DVD CONTROL Key



SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Disconnect the power plug from wall outlet.
2. As shown in the Fig.2, remove the **16** screws marked Ⓐ .
3. Withdraw the rear cover toward you.

REMOVING THE AV TERMINAL BOARD

● After removing the REAR COVER.

1. As shown in Fig.2, remove the **5** screws marked Ⓑ .
2. Then remove the AV TERMINAL BOARD.

REMOVING THE CHASSIS

● After removing the REAR COVER and AV TERMINAL BOARD.

1. Slightly raise the both sides of the chassis by hand and remove the two claws under the both sides of the chassis from the front cabinet.
2. Withdraw the chassis backward.
   (If necessary, take off the wire clamp, connectors etc.)

REMOVING THE DOME SPEAKER BOX

● After removing the REAR COVER.

1. As shown in Fig. 2, removing the **2** screws marked Ⓒ **,** then remove the dome speaker box backward.
2. Follow the same steps when removing the other hand dome speaker box.

NOTE : When removing the screws marked Ⓒ of the dome speaker box, remove the lower side screw first, and then remove the upper one.

REMOVING THE TOP GRILLE

● After removing the REAR COVER.

1. As shown in Fig.2, removing the **4** screws marked Ⓓ .
2. Pull up the TOP GRILLE to remove it.

REMOVING THE CONTROL BASE

● After removing the CHASSIS.

1. As shown in Fig.1, while pushing down the claws marked Ⓔ, remove the CONTROL BASE in the arrow direction Ⓕ .

CHECKING THE PW BOARD

To check the PW Board from bottom side.

1. Pull out the CHASSIS (refer to REMOVING THE CHASSIS).
2. Erect the chassis vertically so that you can easily check the bottom side of the PW Board.

CAUTION

- When erecting the CHASSIS, be careful so that there will be no contacting with other PW Board.
- Before turning ON power, make sure that the wire connector is properly connected.
- **When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.**

WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together.
   Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

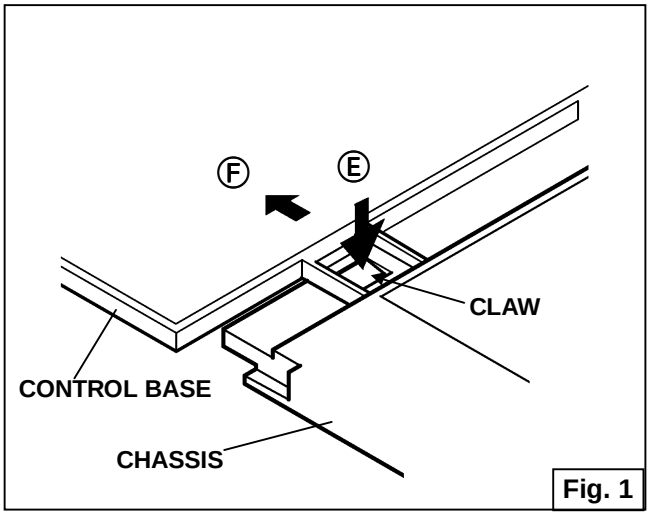


Fig. 1

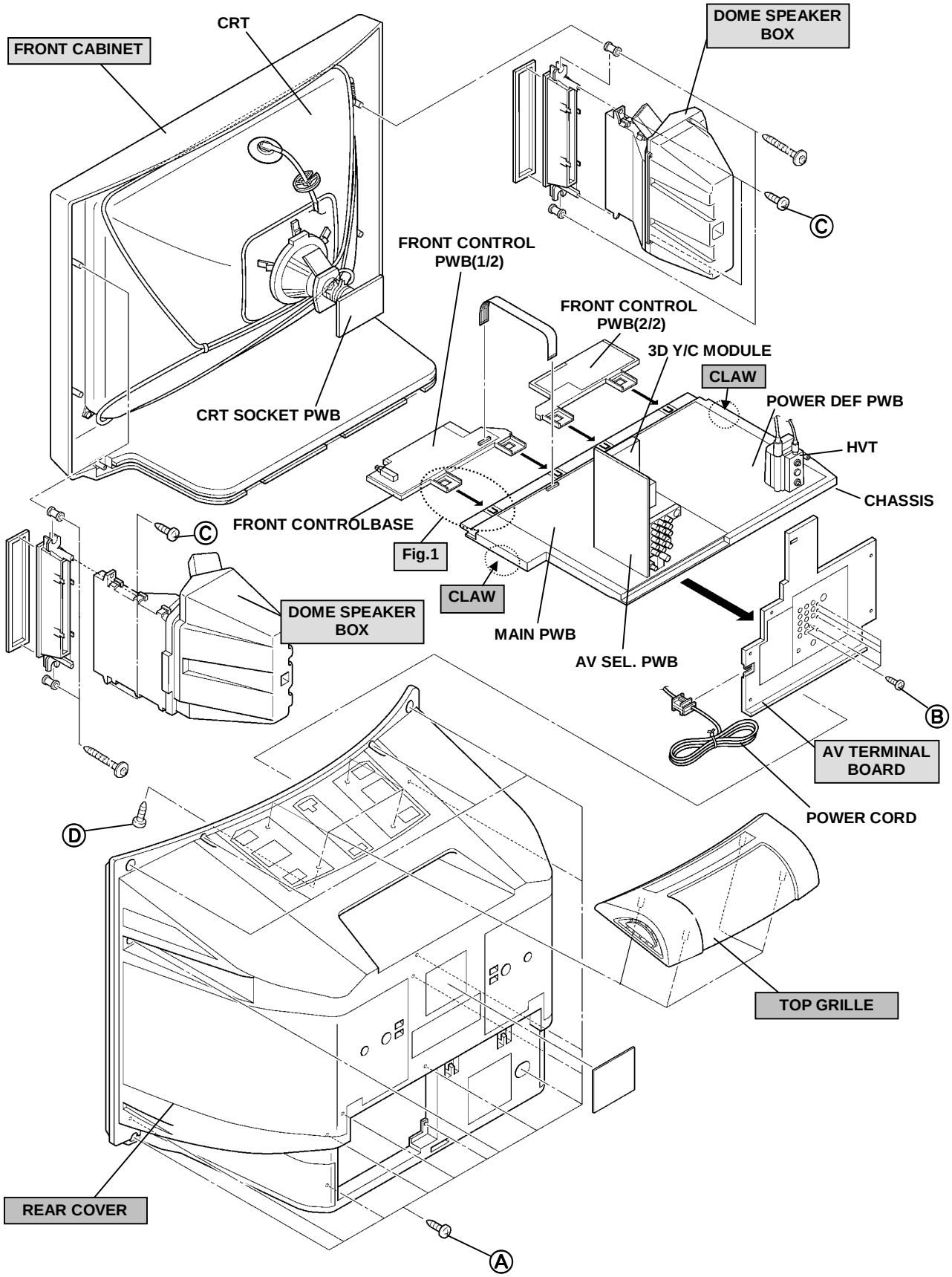

FRONT CABINET
CRT
DOME SPEAKER BOX
FRONT CONTROL PWB(1/2)
FRONT CONTROL PWB(2/2)
3D Y/C MODULE
CLAW
POWER DEF PWB
HVT
CHASSIS
CRT SOCKET PWB
FRONT CONTROLBASE
Fig.1
CLAW
DOME SPEAKER BOX
MAIN PWB
AV SEL. PWB
AV TERMINAL BOARD
POWER CORD
TOP GRILLE
REAR COVER
A
B
C
D

Fig.2

REMOVING THE CRT

- Replacement of the CRT should be performed by 2 or more persons.
- After removing the cover, chassis etc.

1. Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig.3).
2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig.3.
3. Remove 4 screws marked by arrows with a box type screw driver as shown in Fig.4.
   Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.
4. After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig.5.
   The CRT should be assembled according to the opposite sequence of its dismounting steps.
   The CRT change table should preferably be smaller that the CRT surface, and its height be about 35cm.

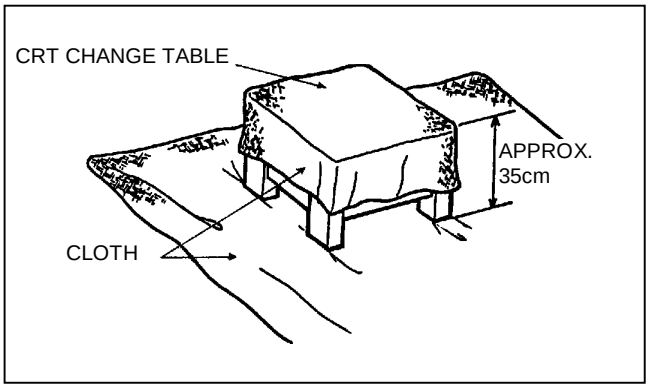


Fig. 3

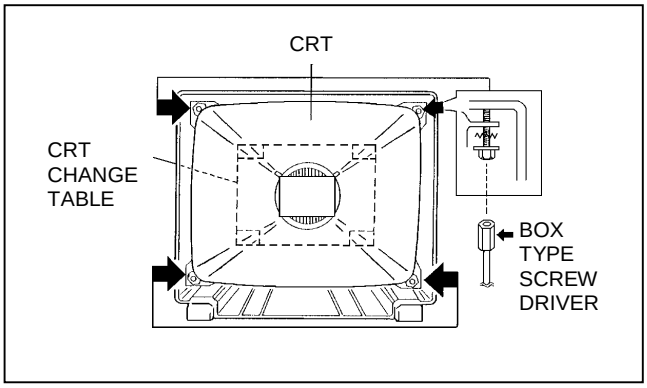


Fig. 4

COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismounting them, be sure to coat silicon grease for electrical insulation as shown in Fig.6.
Wipe around the anode button with clean and dry cloth. (Fig.6)
Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not stick to the anode button. (Fig.7)
Silicon grease product No. KS - 650N

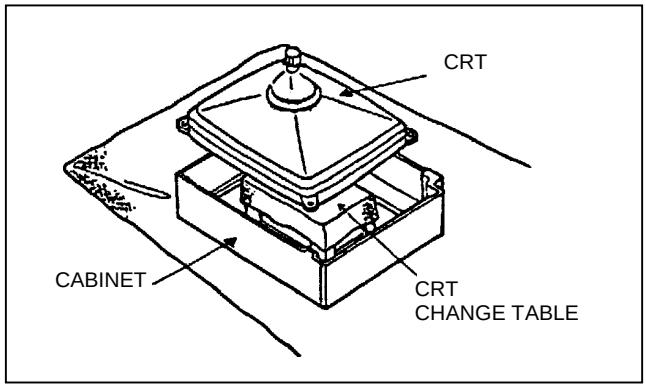


Fig. 5

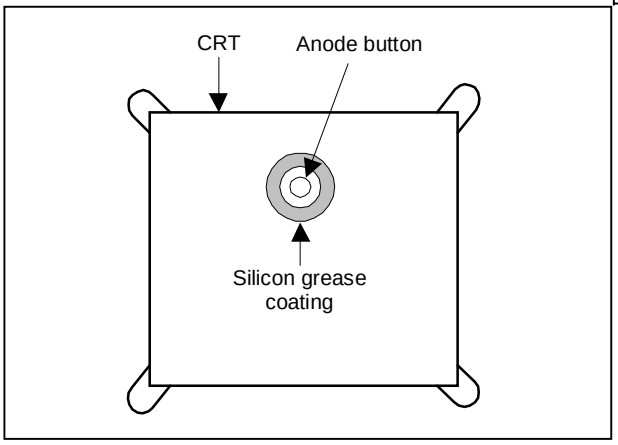


Fig. 6

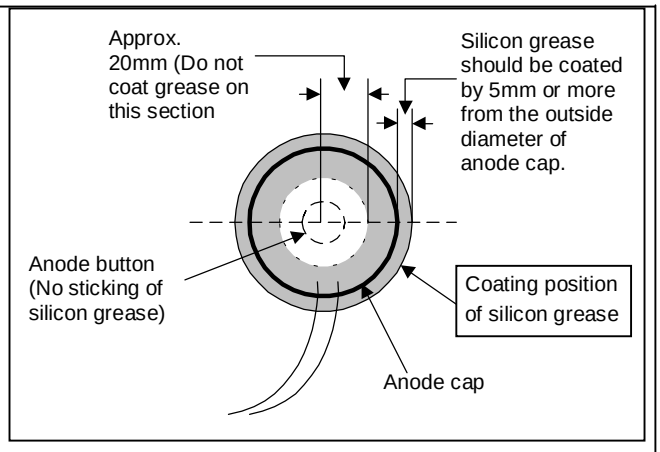


Fig. 7

REPLACEMENT OF MEMORY ICs

1. Memory ICs

This model uses memory ICs. This memory IC data are for proper operation of the video and deflection circuits. When replacing, be sure to use ICs written with the initial values of data.

2. Procedure for replacing memory ICs

(1) **Power off**

Switch off the power and disconnect the power plug from the wall outlet.

(2) **Replace the memory IC**

Be sure to use memory ICs written with the initial data values.

(3) **Power on**

Connect the power plug into the wall outlet and switch power on.

(4) **Check and set SYSTEM CONSTANT SET**

- ✶ **It must not adjust without signal / should be OPEN the remote control unit door**

1) Press the **DISPLAY** key and the **PICTURE MODE** key of the REMOTE CONTROL UNIT simultaneously.
2) The SERVICE MENU screen of Fig. 1 will be displayed.
3) While the SERVICE MENU is displayed, again press the **DISPLAY** key and **PICTURE MODE** key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed.
4) Check the setting values of the SYSTEM CONSTANT SET of Table 1 in page later. If the value is different, select the setting item with the **MENU UP/DOWN** key, and set the correct value with the **MENU LEFT/RIGHT** key.
5) Press the **OK** key to memorize the setting value.
6) Press the **DISPLAY** key twice, and return to the normal screen.

(5) **Receive channel setting**

Refer to the OPERATING INSTRUCTIONS, and set the receive channels as described.

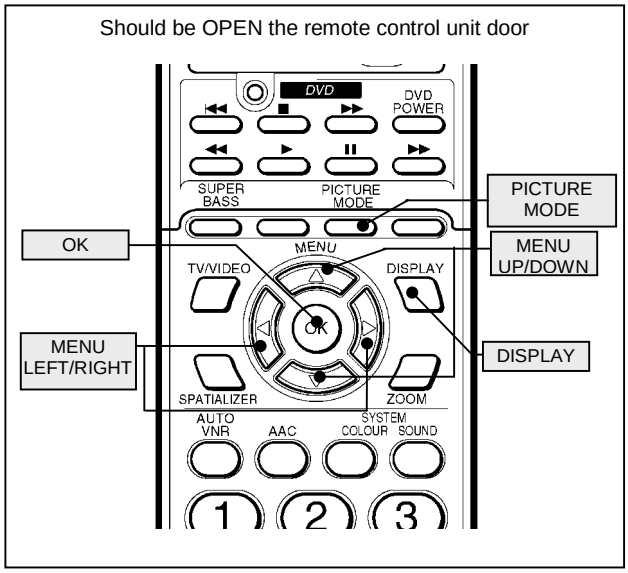
(6) **User settings**

Check the user setting items according to Table 2. Where these do not agree, refer to the OPERATING INSTRUCTIONS.

(7) **SERVICE MENU setting**

Verify what to see in the SERVICE MENU, and set what ever in necessary.

KEY ASSIGNMENT OF REMOTE CONTROL UNIT



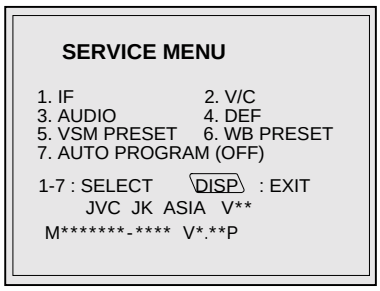
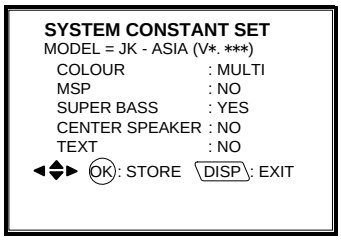
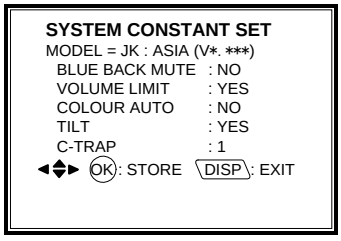


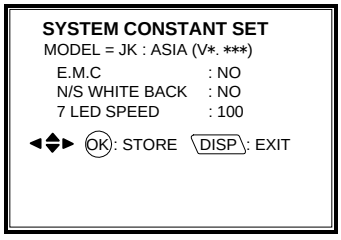
Fig.1



SYSTEM CONSTANT(1/3)



SYSTEM CONSTANT(2/3)



SYSTEM CONSTANT(3/3)

Fig.2

INITIAL SETTING VALUES OF SYSTEM CONSTANT SET (TABLE 1)

CONTENTS	VARIABLE RANGE	INITIAL SETTING VALUE
COLOUR	MULTI → TRIPLE → PAL	MULTI
MSP	YES → NO	NO
SUPER BASS	YES → NO	YES
CENTER SPEAKER	YES → NO	NO
TEXT	YES → NO	NO
BLUE BACK MUTE	YES → NO	NO
VOLUME LIMIT	YES → NO	YES
COLOUR AUTO	YES → NO	NO
TILT	YES → NO	YES
C-TRAP	1 → 0	1
E.M.C	YES → NO	NO
N/S WHITE BACK	YES → NO	NO
7 LED SPEED	00 → 10 → 20 → 30 → ····· → 1250 → 1260 → 1270	100

USER SETTING CONDITIONS (TABLE2)

PICTURE SETTING	
CONTRAST	CENTER
BRIGHT	
SHARP	
COLOUR	
PICTURE	BRIGHT
WHITE BALANCE	COOL
PICTURE FEATURES	
A.A.C	ON (VIDEO) / OFF(TV)
AUTO VNR	AUTO
COLOUR SYSTEM	AUTO
ZOOM	REGULAR
ECO SENSER	OFF
PICTURE TILT	CENTER
SOUND SETTING	
BILINGUAL MODE	STEREO
BASS	CENTER
TREBLE	
BALANCE	
AI VOLUME	ON
BBE	OFF
SPATIALIZER	OFF
SUPER BASS	ON

FEATURES	
SLEEP TIMER	OFF
ON TIMER	———
BLUE BACK	ON
CHILD LOCK	OFF
CHANNEL GUARD	———
AUTO SHUT OFF	OFF
VIDEO-3 SETTING	COMPONENT
INSTALL	
LANGUAGE	ENGLISH
DEMO	
DEMO	OFF
OTHERS	
MAIN POWER	OFF
VOLUME	PROPER SOUND VOLUME
CHANNEL PRESET	REFER TO INST BOOK
CHANNEL POSITION	1 POSITION
SUB POWER	ON
ON SCREEN DISPLAY	INDICATION
ZOOM MODE	REGULAR
TV/VIDEO	TV
SOUND SYSTEM	B/G

SERVICE MENU SETING ITEMS (TABLE 3)

Setting item	Setting value	Setting item	Setting value
1. IF	VCO (CW))	4. DEF	1. V-SHIFT 2. V-SIZE 3. SUB TITLE 4. H-CENT 5. H-SIZE 6. EW-PIN 7. TRAPEZ 8. EW. COR. L 9. EW. COR. H 10. V. S-COR 11. V-LIN 12. H-BLK-R 13. H-BLK-L 14. V-EHT 15. H-EHT 16. EHT-GAIN
2. V / C	1. CUT OFF (R, G, B) 2. DRIVE (R, B) 3. BRIGHT 4. CONT. 5. COLOUR 6. TINT 7. BLACK OFFSET (R-Y, B-Y) 8. SHARP	5. VSM PRESET BRIGHT STANDARD SOFT	1. BRIGHT 2. CONT 3. COLOUR 4. SHARP 5. TINT
3. AUDIO **(Do not adjust)**	1. ERROR LIMIT 2. A2 ID THR 3. BASS 4. TREBLE	6. WB PRESET COOL MID WARM	1. R DRIVE 2. B DRIVE
		7. AUTO PROGRAM **(Do not adjust)**	ON / OFF ✶ After finish to adjust, press the 7-key to preset “7.AUTO PROGRAM(ON)” in the Service mode.

SERVICE ADJUSTMENTS

BEFORE STARTING SERVICE ADJUSTMENT

1. **There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.**
2. **The adjustment with the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to its optimum condition may differ from the initial setting values.**
3. Make sure that connection is correctly made to AC power source.
4. Turn on the power of the set and eq uipment before use, and start the adjustment procedures after waiting at least 30 minutes.
5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
6. Never touch any adjustment parts, which are not specified in the list for this adjustment variable resistors, transforms, condensers, etc.
7. Preparation for adjustment (presetting)
   Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

User mode setting condition

PICTURE MODE (VSM)	STANDARD
WHITE BALANCE	COOL
ZOOM	REGULAR
CONTRAST	CENTER
BRIGHT	CENTER
SHARP	CENTER
COLOUR	CENTER
A.A.C	OFF
AUTO VNR	OFF
PICTURE TILT	CENTER
BLUE BACK	OFF
AUTO SHUTOFF	OFF
ECO SENSOR	OFF
AI VOLUME	OFF
BBE	OFF
SUPER BASS	OFF
SLEEP TIMER	OFF
BALANCE	CENTER
SPATIALIZER	OFF

MEASURING INSTRUMENT AND FIXTURES

1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [PAL / SECAM / NTSC]
4. Remote control unit

ADJUSTMENT CONTENTS

- CHECK ITEMS BEFFOR ADJUSTMENT
- FOCUS ADJUSTMENT
- CHECK OF IF CIRCUIT
- SETTING OF VSM PRESET
- SETTING OF WHITE BALANCE PRESET
- VIDEO / CHROMA CIRCUIT ADJUSTMENT
- DEFLECTION CIRCUIT ADJUSTMENT
- AUDIO CIRCUIT ADJUSTMENT **[Do not adjust]**
- PURITY, CONVERGENCE ADJUSTMENT

BASIC OPERATION OF SERVICE MENU

1. The adjustment using SERVICE MENU

The following adjustment items use the SERVICE MENU in the series of the adjustment. The adjustments are made on the basis of the initial setting values. The adjustment values which adjust the screen to the optimum condition can be different from the initial setting values. With the SERVICE NEMU, various settings can be made, and they are broadly classified in the following items of settings.

IF ····· Adjustment of the IF circuits.
V/C ····· Adjustment of the VIDEO/CHROMA circuit.
AUDIO ····· Adjustment of the sound circuit **[Do not adjust]**.
DEF ····· Adjustment of the DEFLECTION circuit for each aspect mode given below
REGULAR (50/60Hz) / ZOOM (50/60Hz) / 16:9 (50/60Hz)
VSM PRESET ····· Adjustment of the initial setting values of VSM condition as BRIGHT, STANDARD and SOFT.
(VSM : Video Status Memory)
WB PRESET ····· Adjustment of the initial setting value of WHITE BALANCE PRESET (W B) values as COOL, MID and WARM.
AUTO PROGRAM ····· By turning the power switch ON, you can get the state of AUTO PROGRAM **[Do not adjust]**.

2. Key operation of the SERVICE MENU

[Enter to SERVICE MENU]

Press the **DISPLAY** key and the **PICTURE MODE** key of the REMOTE CONTROL UNIT simultaneously. Then enter the SERVICE MENU mode as shown in Fig.1.

[Select the SUB MENU from SERVICE MENU]

In SERVICE MENU, press the 1～7 key of the remote control unit, to select any of the adjustment items.
The colours which selected item characters are changed.

[Method of setting]

1. IF

[VCO (CW)]

①1 Key ····· Select **1.IF**.
②The VCO (CW) screen will be displayed.
③DISPLAY Key ··· As you press this key, you will return to the **SERVICE MENU**.

SERVICE MENU

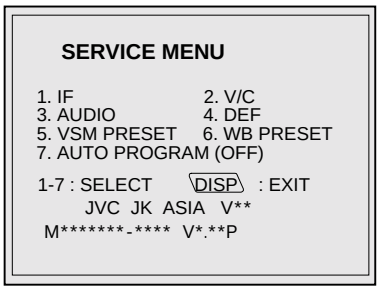
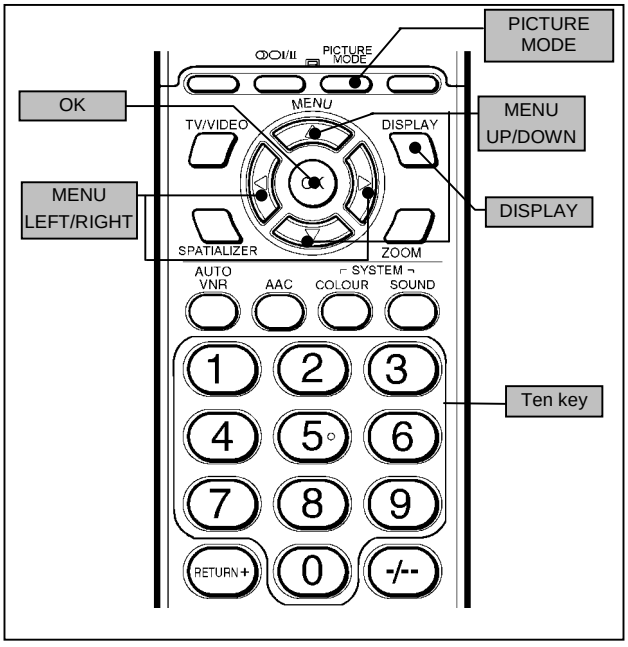
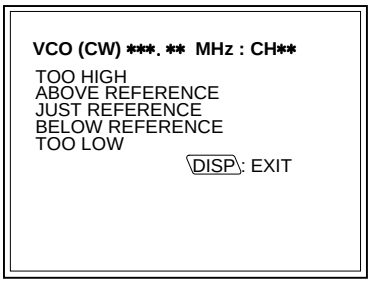


Fig.1

KEY ASSIGNMENT OF REMOTE CONTROL UNIT



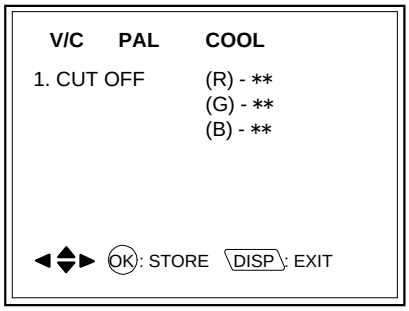
SUB MENU 1.IF(VCO)



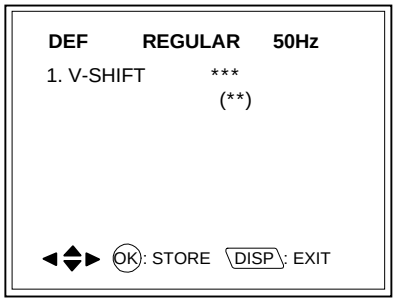
2.V/C, 4.DEF, 5.VSM PRESET and **6.WB PRESET**

① 2, 4, 5, 6 Key ····· Select one from **2. V/C, 4. DEF, 5. VSM PRESET** and **6.WB PRESET**.
② MENU UP/DOUN Key ····· Select setting items.
③ MENU LEFT/RIGHT Key····· Set (adjust) the setting values of the setting items.
④ OK Key····· Memorize the setting value.
(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key - if you do, the values will not be stored in memory.)
⑤ DISPLAY Key ····· Return to the **SERVICE MENU** screen.

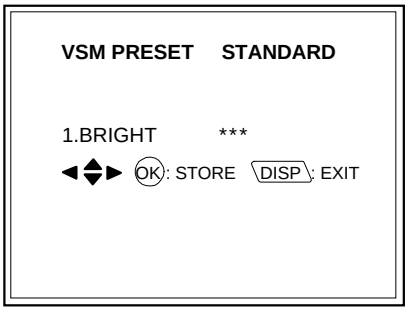
SUB MENU 2.V/C



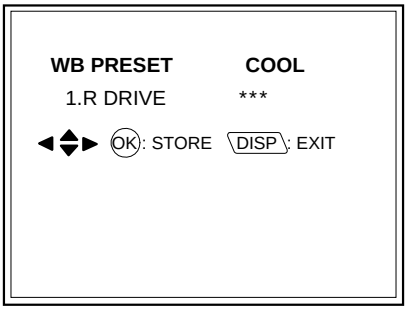
SUB MENU 4.DEF



SUB MENU 5.VSM PRESET



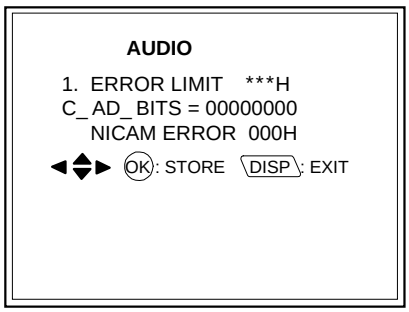
SUB MENU 6.WB PRESET



3.AUDIO and **7.AUTO PROGRAM**

3.AUDIO **(Do not adjust)** ····· It is not req uirement to adjustment.
7.AUTO PROGRAM **(Do not adjust)** ····· AUTO PROGRAM contents displays on the screen. Need not for service.

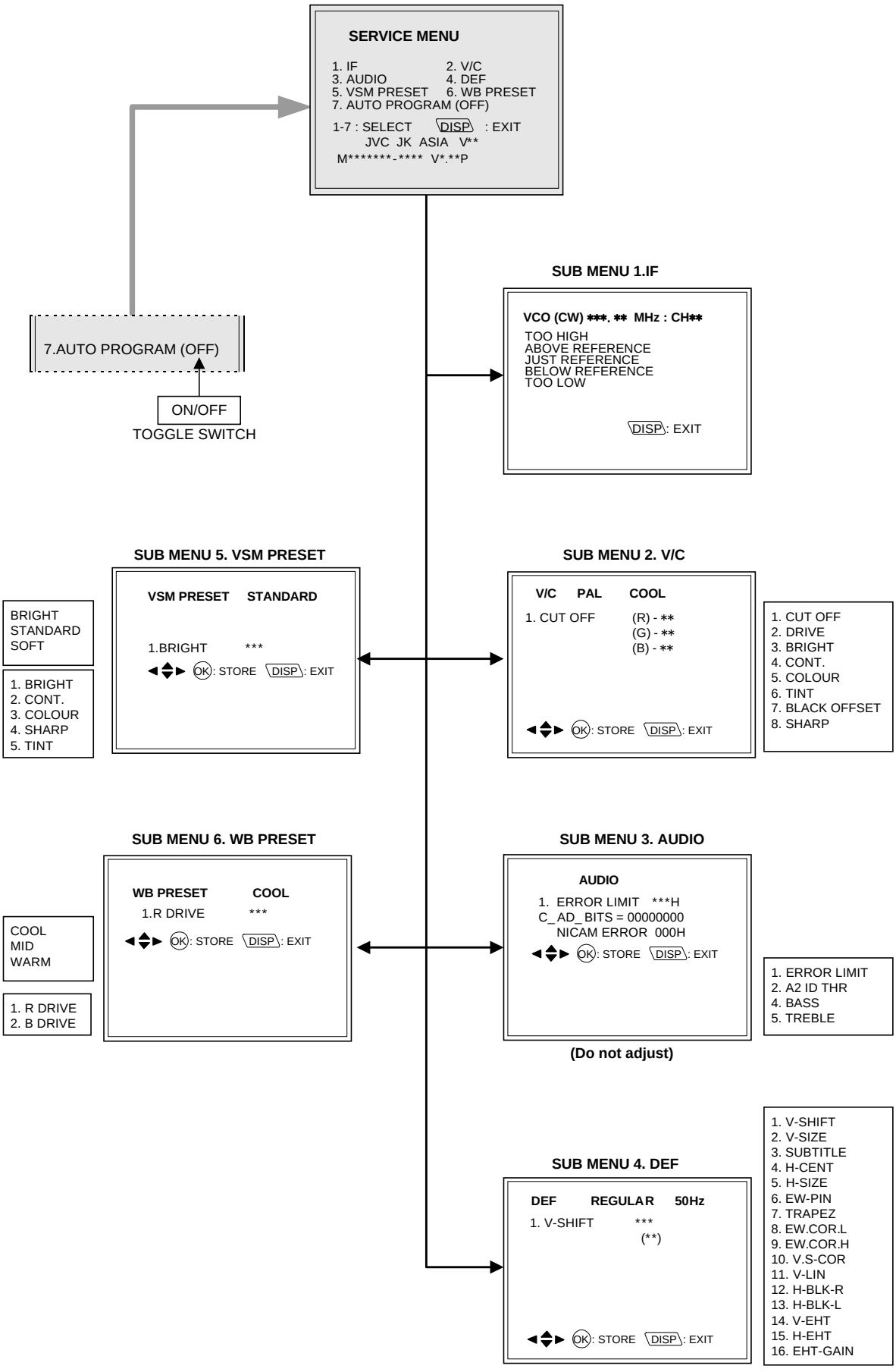
SUB MENU 3.AUDIO



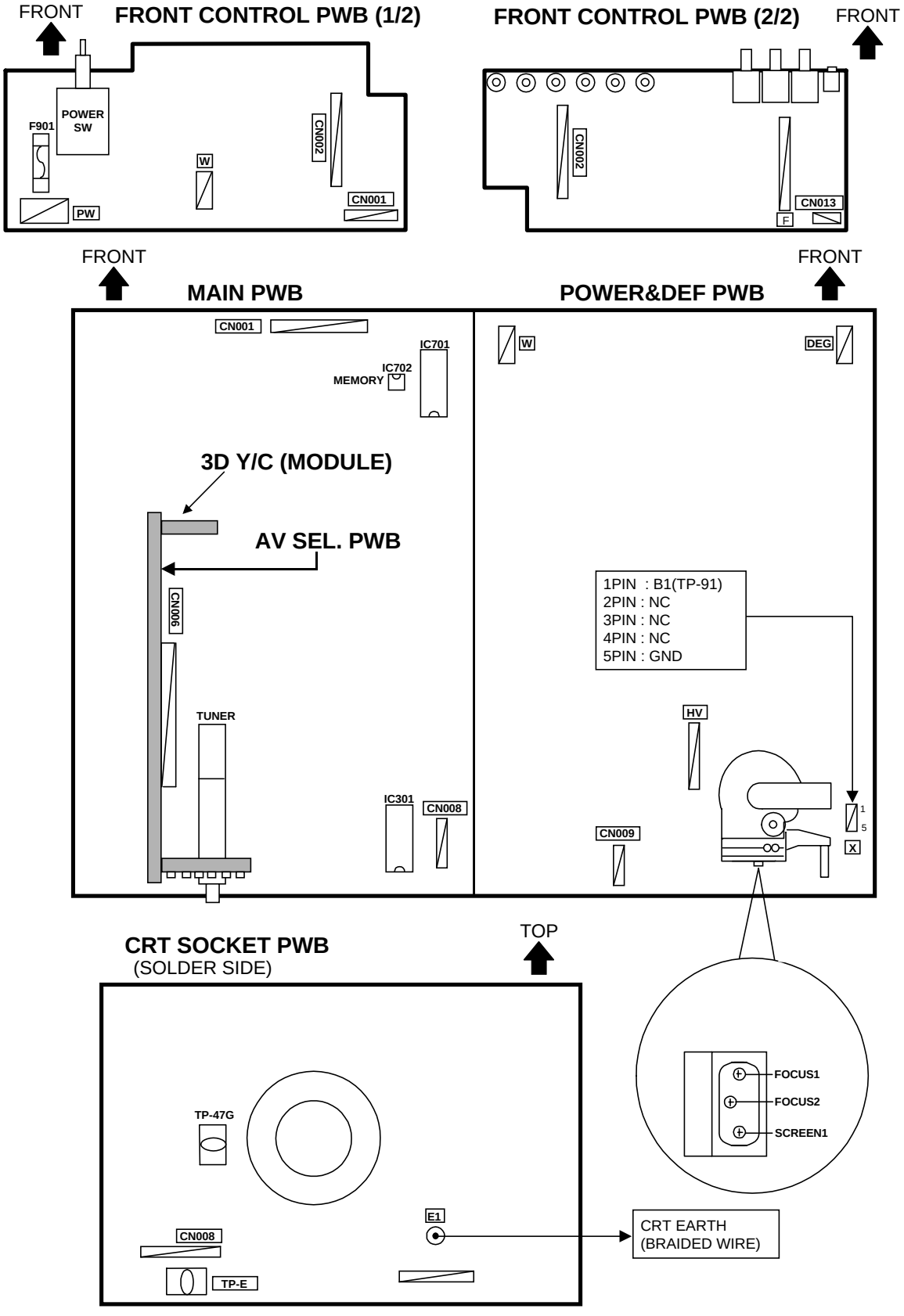
[Exit from SERVICE MENU]

When complete the adjustment work, press the **DISPLAY** key to return to the main SERVICE MENU. And then press the **DISPLAY** key again, return to the normal screen.

SERVICE MENU FLOW CHART



ADJUSTMENT LOCATIONS



REPLACEMENT OF CHIP COMPONENT

■ CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adeq uately.
4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

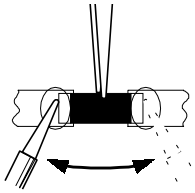
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

■ REPLACEMENT STEPS

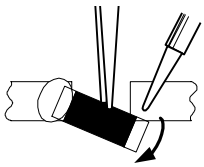
1. How to remove Chip parts

◆ **Resistors, capacitors, etc**

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

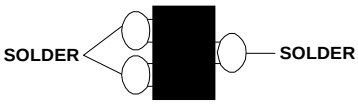


(2) Shift with tweezers and remove the chip part.

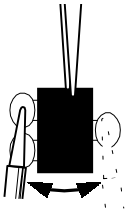


◆ **Transistors, diodes, variable resistors, etc**

(1) Apply ex tra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

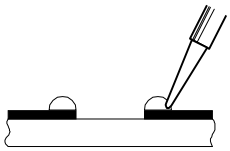


Note : After removing the part, remove remaining solder from the pattern.

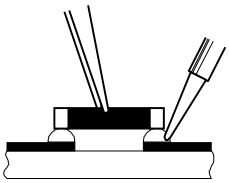
2. How to install Chip parts

◆ **Resistors, capacitors, etc**

(1) Apply solder to the pattern as indicated in the figure.



(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

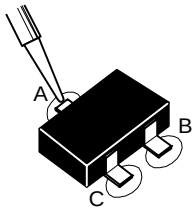


◆ **Transistors, diodes, variable resistors, etc**

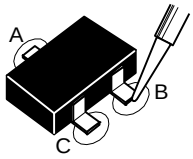
(1) Apply solder to the pattern as indicated in the figure.

(2) Grasp the chip part with tweezers and place it on the solder.

(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



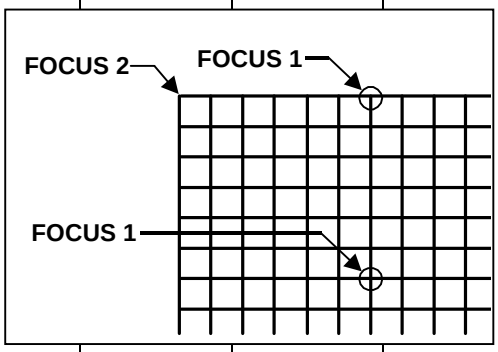
ADJUSTMENTS

CHECK ITEMS BEFORE ADJUSTMENTS

Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 Power Supply	**Signal generator** **DC voltmeter**	**TP-91(B1)** **TP-E(⏚)** **[X Connector on POWER DEF PWB]**		1. Input the black and white signal. 2. Select 2. V/C from the SERVICE MENU. 3. Select 1. CUT OFF with MENU UP / DOWN key. 4. Show a horizontal line by pressing the 1 key. 5. Turn the SCREEN VR until not to display the a horizontal line. 6. Connect the DC voltmeter to TP-91(B1) and TP-E(⏚). 7. Make sure that the voltage is DC134.0 ±2.0V. 8. Readjust the SCREEN VR to appear the a horizontal line faintly, and cancel the a horizontal line by pressing the 2 key.
Check of High Voltage	**Signal generator** **High voltage meter**	**CRT anode**		1. Input the black and white signal. 2. Select 2. V/C from the SERVICE MENU. 3. Select 1. CUT OFF with MENU UP / DOWN key. 4. Show a horizontal line by pressing the 1 key. 5. Turn the SCREEN VR until not to display the a horizontal line. 6. Connect a High voltage meter to CRT ANODE. 7. Make sure that the voltage is DC 32.0kV±1.5kV. 8. Readjust the SCREEN VR to appear the a horizontal line faintly, and cancel the a horizontal line by pressing 2 key.

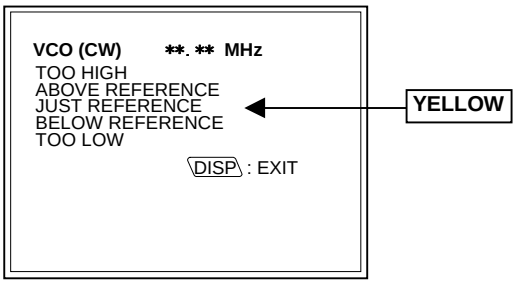
FOCUS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of FOCUS	**Signal generator**		**FOCUS 1 [In HVT]** **FOCUS 2 [IN HVT]**	1. Input the cross-hatch signal. 2. By turning the FOCUS1 VR, adjust the picture so that the 7th horizontal line from the upper side of the cross-hatch picture becomes thinnest. 3. By turning the FOCUS1 VR, adjust the picture so that the 7th vertical line from the left side may become uniform at the line center and its periphery. 4. Then turning the FOCUS2 VR, adjust the focus of the vertical line at most outside becomes as thin as possible. 5. Carry out adjustment by repeating the steps 2 and 3 above. 6. Make sure that when the screen is darkened, the lines remain in good focus.



CHECK OF IF CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of VCO (CW)	**Remote control unit**		**1.IF**	●Under normal conditions, it is no adjustment req uired. ●It must not adjust without broadcast signal. 1. Select 1.IF from the SERVICE MENU, then displays the VCO (CW) adjustment screen. 2. Check the characters colour of the JUST REFERENCE displayed to yellow.



SETTING OF VSM PRESET

Item	Measuring instrument	Test point	Adjustment part	Description
Setting of VSM PRESET	**Remote control unit**		**5.VSM PRESET** **1.BRIGHT** **2. CONT.** **3. COLOUR** **4. SHARP** **5. TINT**	1. Select 5.VSM PRESET from the SERVICE MENU. 2. Select PICTURE MODE to BRIGHT by the remote control unit. 3. Adjust the MENU UP/DOWN and -LEFT/RIGHT key to bring the set values of 1.BRIGHT～5. TINT to the values shown in the table. 4. Press the OK key and memorize the set value. 5. Respectively select the PICTURE MODE to STANDARD and SOFT, and make similar setting as in 3 above. 6. Press the OK key and memorize the set value.

[INITIAL SETTING VALUES OF VSM PRESET]

PICTURE MODE / ITEM	BRIGHT	STANDARD	SOFT
1. BRIGHT	+0	+0	+0
2. CONT	+17	+0	-4
3. COLOUR	+0	+0	-1
4. SHARP	+0	+0	-3
5. TINT	+0	+0	+0

SETTING OF WHITE BALANCE PRESET

Item	Measuring instrument	Test point	Adjustment part	Description
Setting of WHITE BALANCE PRESET	**Remote control unit**		**6.WB PRESET** **1. R DRIVE** **2. B DRIVE**	1. Select 6.WB PRESET from the SERVICE MENU. 2. Select COOL in the user setting MENU. 3. Adjust the MENU UP/DOWN and LEFT/RIGHT key to bring the set values of 1.R DRIVE & 2.B DRIVE to the values shown in the table. 4. Press the OK key and memorize the set value. 5. Respectively select the WHITE BALAMCE MODE to MID and WARM, and make similar adjustment as in 3 above. 6. Press the OK key and memorize the set value.

[INITIAL SETTING VALUES OF WHITE BALANCE PRESET]

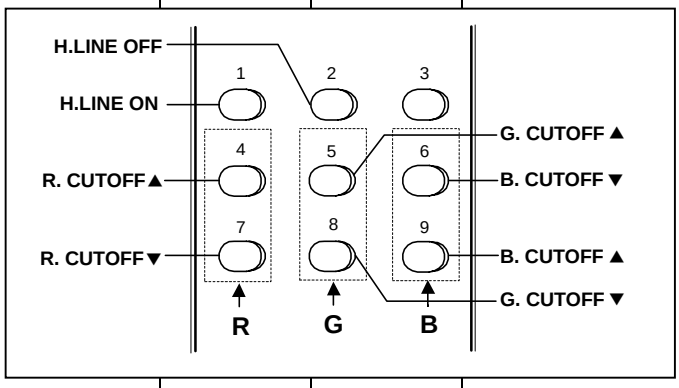
ITEM \ WHITE BALANCE	COOL	MID	WARM
1. R DRIVE	+0	-3	+26
2. B DRIVE	+0	-23	-27

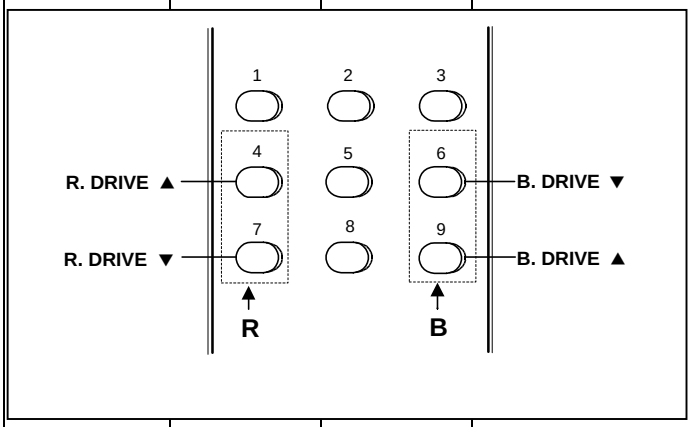
VIDEO / CHROMA CIRCUIT ADJUSTMENT

The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.
The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

CONTENTS		PAL	SECAM	NTSC3.58	NTSC4.43
1. CUTOFF	**R**	-60			
	G	-60			
	B	-60			
2. DRIVE	**R**	+0			
	B	+0			
3. BRIGHT	**TV**	0	+3	+1	—
	VIDEO	-3	+2	+1	—
	COMPONENT	-2			
4. CONT	**TV**	-15	0	0	—
	VIDEO	0	0	0	—
	COMPONENT	+2			
5. COLOUR	**TV/VIDEO**	+10	+18	+0	0
	COMPONENT	+8(50Hz)		+17(60Hz)	
6. TINT	**TV**	+6	+6	+7	0
	VIDEO	+6	+6	+14	0
	COMPONENT	+6(50Hz)		+4(60Hz)	
7. BLACK OFFSET	**R-Y**	—	0	—	—
	B-Y	—	0	—	—
8. SHARP	**TV**	-12	-13	-12	—
	VIDEO	-8	-7	-9	—
	COMPONENT	-10			

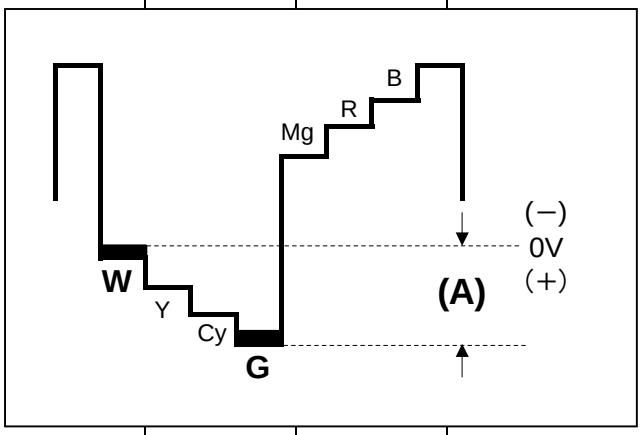
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE (Low Light)	**Signal generator** **Remote control unit**		**1.CUT OFF** **(R)＊＊** **(G)＊＊** **(B)＊＊** **SCREEN VR** **[In HVT]**	● Set the PICTURE MODE to STANDARD. 1. Set the WHITE BALANCE to COOL. 2. Receive a black and white signal (colour off). 3. Select 2. V/C from the SERVICE MENU. 4. Select 1.CUT OFF with the MENU UP/DOWN key. 5. Show a horizontal line with the 1 key. 6. Gradually turn the SCREEN VR from the left end to the right direction to bring one of the red, green or blue colour faintly visible. 7. Press 4～9 key, and bring out the other 2 colours and make a horizontal line visible in white. 8. Turn the SCREEN VR and bring a white horizontal line faintly visible. 9. Press 2 key, turn off a horizontal line. 10. Press the OK key and memorize the set value.
Adjustment of WHITE BALANCE (High Light)	**Signal generator** **Remote control unit**		**2.DRIVE** **(R)＊＊** **(B)＊＊**	● The adjustment for Low Light WHITE BALANCE should be finished. ● Set the PICTURE MODE to STANDARD. 1. Set the WHITE BALANCE to COOL. 2. Input the black and white signal (colour off). 3. Select 2.V/C from the SERVICE MENU. 4. Select 2.DRIVE with the MENU UP/DOWN key. 5. Change the screen colour to white with 4 key or 7 key (drive of red), 6 key or 9 key (drive of blue). 6. Press the OK key, and memorize the set values.



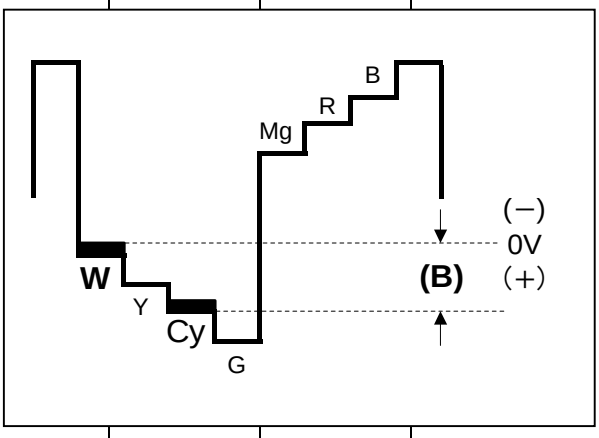


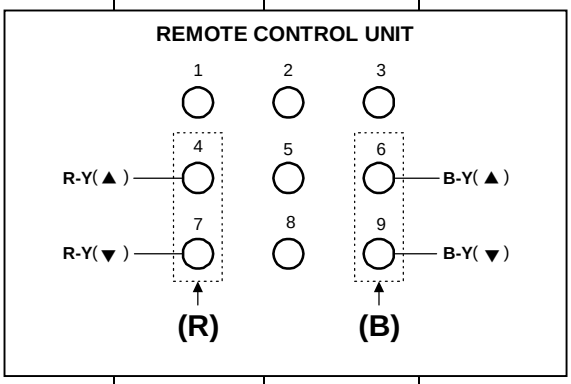
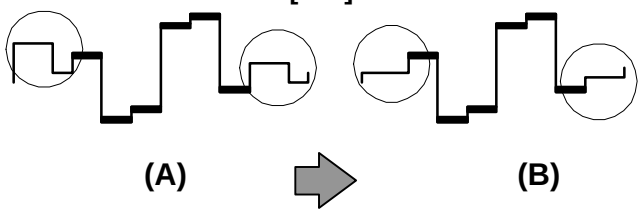
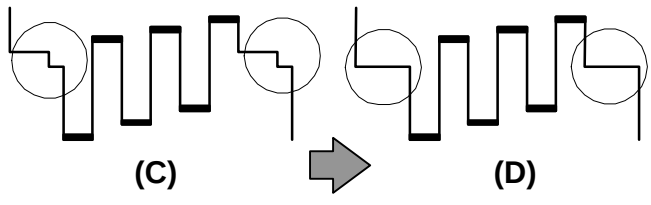
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB BRIGHT	**Remote control unit**		**3.BRIGHT**	1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 3.BRIGHT with the MENU UP/DOWN key. 4. Set the initial setting value with the MENU LEFT/RIGHT key. 5. If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness. 6. Press the OK key and memorize the set value.
Adjustment of SUB CONTRAST	**Remote control unit**		**4.CONT.**	1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 4.CONT with the MENU UP/DOWN key. 4. Set the initial setting value with the MENU LEFT/RIGHT key. 5. If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast. 6. Press the OK key and memorize the set value.
Adjustment of SUB COLOUR Ⅰ	**Remote control unit**		**5.COLOUR**	**[Adjustment method without measuring instrument]**
			PAL COLOUR	1. Receive the PAL broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 5.COLOUR with the MENU UP/DOWN key. 4. Set the initial setting value for PAL COLOUR with the MENU LEFT/RIGHT key. 5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour. 6. Press the OK key and memorize the set value.
			SECAM COLOUR	1. Receive the SECAM broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 5.COLOUR with the MENU UP/DOWN key. 4. Set the initial setting value for SECAM COLOUR with the MENU LEFT/RIGHT key. 5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour. 6. Press the OK key and memorize the set value.
			NTSC 3.58 COLOUR	1. Receive the NTSC 3.58MHz broadcast. 2. Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above.
			NTSC 4.43 COLOUR	1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR Ⅱ	**Signal generator** **Oscilloscope** **Remote control unit**	**TP-47G** **TP-E(⏚)** **[CRT SOCKET PWB]**	**5.COLOUR**	**[Adjustment method using measuring instrument]**
			PAL COLOUR	1. Input the PAL full field colour bar signal (with 75% white). 2. Select 2.V/C from the SERVICE MENU. 3. Select 5.COLOUR with the MENU UP/DOWN key. 4. Set the initial setting value of PAL COLOUR with the MENU LEFT/RIGHT key. 5. Connect the oscilloscope between TP-47G and TP-E(⏚). 6. Adjust PAL COLOUR to bring the value of **(A)** in the illustration to **-3V** (Voltage difference between white **(W)** and green **(G)**). 7. Press the OK key and memorize the setting value.
			SECAM COLOUR	1. Input the SECAM full field colour bar signal (with 75% white). 2. Set the initial setting value of SECAM COLOUR with the MENU LEFT/RIGHT key. 3. Adjust SECAM COLOUR to bring the value of **(A)** in the illustration to **-5V** (Voltage difference between white **(W)** and green **(G)**). 4. Press the OK key and memorize the setting value.
			NTSC COLOUR	1. Input the NTSC 3.58MHz full field colour bar signal (with 75% white). 2. Set the initial setting value of NTSC 3.58 COLOUR with the MENU LEFT/RIGHT key. 3. Adjust NTSC 3.58 COLOUR and bring the value of **(A)** in the illustration to **+3V** (Voltage difference between white **(W)** and green **(G)**). 4. Press the OK key and memorize the setting value.
			NTSC 4.43 COLOUR	1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.



Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB TINT Ⅰ	**Remote control unit**		**6.TINT**	**[Adjustment method without measuring instrument]**
			NTSC 3.58 TINT	1. receive the NTSC 3.58MHz broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 6. TINT with the MENU UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 TINT with the MENU LEFT/RIGHT key. 5. If you cannot get the best tint with the initial setting value, make fine adjustment until you get the best tint. 6. Press the OK key and memorize the set value.
			NTSC 4.43 TINT	1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.
Adjustment of SUB TINT Ⅱ	**Signal generator** **Oscilloscope** **Remote control unit**	**TP-47G TP-E(⏚) [CRT SOCKET PWB]**	**6. TINT**	**[Adjustment method using measuring instrument]**
			NTSC 3.58 TINT	1. Input the NTSC 3.58MHz full field colour bar signal (with 75% white). 2. Select 2.V/C from the SERVICE MENU. 3. Select 6. TINT with the MENU UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 TINT with the MENU LEFT/RIGHT key. 5. Connect the oscilloscope between TP-47G and TP-E(⏚) 6. Adjust NTSC 3.58 TINT to bring the value of **(B)** in the illustration to **+4V** (voltage difference between white **(W)** and cyan **(Cy)**). 7. Press the OK key and memorize the setting value
			NTSC 4.43 TINT	1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.



<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>Adjustment Of SECAM BLACK OFFSET-Ⅰ</td><td>Remote control unit</td><td></td><td>7. BLACK OFFSET
(R-Y)
(B-Y)</td><td>[Method of adjustment without measuring instrument]
1. Receive the SECAM broadcast.
2. Select 2. V/C from SERVICE MENU.
3. Select 7. BLACK OFFSET with the MENU UP / DOWN key.
4. Set the initial setting value for 7. BLACK OFFSET (R-Y) and (B-Y) with 4 and 7 or 6 and 9 keys of the remote control.
5. If the picture is not the best with the initial setting value, make fine adjustment until you get the best picture.
6. Press the OK key and memorise the set value.</td></tr>
<tr><td colspan="4">REMOTE CONTROL UNIT
 
</td><td></td></tr>
<tr><td>Adjustment Of SECAM BLACK OFFSET-Ⅱ</td><td>Signal generator
Oscillo-scope
Remote control unit</td><td>35 PIN (R-Y)
36 PIN (B-Y)
IC 1301 On MAIN PWB</td><td>7. BLACK OFFSET
(R-Y)
(B-Y)</td><td>[Method of adjustment using measuring instrument]
1. Input the SECAM full field colour bar signal (with 75% white).
2. Select 2. V/C from SERVICE MENU.
3. Select 7. BLACK OFFSET with the MENU UP / DOWN key.
4. Connect the oscilloscope between 35 pin of IC 1301 and TP-E.
5. By using 4 and 7 keys of the remote control, adjust the BLACK OFFSET (R-Y) so that it becomes the waveform changes from (A) to (B) shown in the figure.
6. Connect the oscilloscope between 36 pin of IC 1301 and TP-E.
7. By using 6 and 9 keys of the remote control, adjust the BLACK OFFSET (B-Y) so that it becomes the waveform changes from (C) to (D) shown in the figure.
8. If the picture is not the best with the adjusted picture, make fine adjustment until you get the best picture.
9. Press the OK key twice to return to the normal screen.</td></tr>
<tr><td colspan="4">[R-Y]
 
</td><td></td></tr>
<tr><td colspan="4">[B-Y]
 
</td><td></td></tr>
</table>

DEFLECTION CIRCUIT ADJUSTMENT

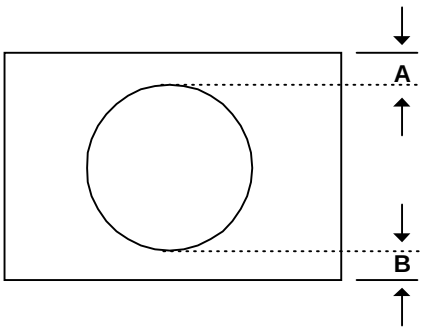
There are 3 modes of the adjustment (1) 50Hz mode (①REGULAR ②ZOOM ③16:9), (2) 60Hz mode (each aspect mode) ····· depending upon the kind of signals (vertical frequency 50Hz / 60Hz).

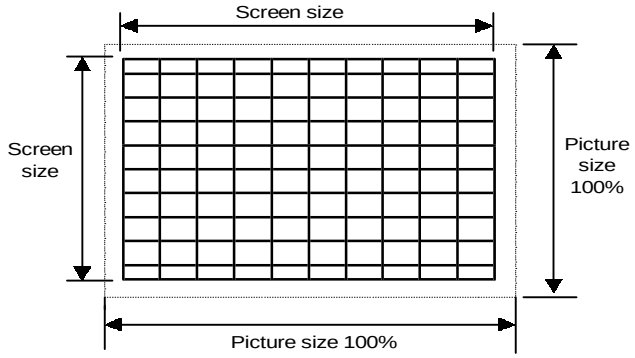
The adjustment using the remote control unit is made on the basis of the initial setting values.
The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

DEFLECTION ADJUSTMENTS INITIAL SETTING VALUE

Setting item	Adjustment name	Initial setting value					
		REGULAR		ZOOM		16:9	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	Vertical center	-5	-1	0	+1	0	0
2. V-SIZE	Vertical height	+7	-1	+36	+35	-39	-39
3. SUB TITLE	Sub title	0	+1	-7	+7	0	0
4. H-CENT	Horizontal center	-10	+5	-1	-1	0	-1
5. H-SIZE	Horizontal size	-12	-1	-4	-4	0	-1
6. EW-PIN	Side pin correction	-3	+1	-4	-4	+2	0
7. TRAPEZ	Trapezoidal distortion correction	+4	-2	0	-1	0	+1
8. EW.COR.L	Corner pin correction Low side	-2	0	-1	-1	+1	+1
9. EW.COR.H	Corner pin correction High side	-2	0	0	0	+1	+1
10. V.S-COR	Vertical size correction	+13	0	0	0	0	0
11. V-LIN	Vertical Linearity	+2	-1	-1	-1	+1	0
12. H-BLK-R	Horizontal blanking right	0	0	0	0	+77	0
13. H-BLK-L	Horizontal blanking left	0	0	0	0	+2	0
14. V-EHT	V size correction level caused by EHT change	-4	0	0	0	0	0
15.H-EHT	H size correction level caused by EHT change	-3	0	0	0	0	0
16.EHT-GAIN	Size correction gain caused by EHT change	+3	0	0	0	0	0

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of V-SHIFT	**Signal generator** **Remote control unit**		**1.V- SHIFT**	●At first, select the ASPECT mode to REGULAR. 1. Input the circle pattern signal. 2. Select 4.DEF from the SERVICE MENU. 3. Select 1.V-SHIFT with the MENU UP/DOWN key. 4. Adjust V-SHIFT to make **A = B**. 5. Press the OK key and memorize the set value.
Adjustment of V-SIZE	**Signal generator** **Remote control unit**		**2.V-SIZE**	6. Input the cross-hatch signal. 7. Select 2.V-SIZE and set the initial setting value. 8. Adjust V-SIZE and make sure that the vertical screen size is in the bellow table. 9. Press the OK key and memorize the set value. ●The value about 16:9 mode is the length of the 90% position in the screen size.

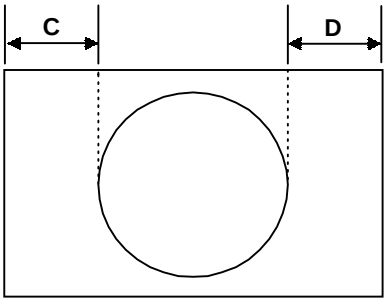




[VERTICAL SIZE]

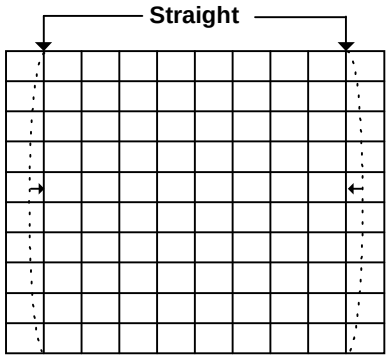
ASPECT MODE	REGULAR	ZOOM	16 : 9
V-SIZE	92%	74%	295mm (90% position)

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of H-CENTER	**Signal generator** **Remote control unit**		**4.H-CENT.**	10. Input the circle pattern signal. 11. Select 4.H-CENT and set the initial setting value. 12. Adjust H-CENT to make **C=D**. 13. Press the OK key and memorize the set value.
Adjustment of H-SIZE	**Signal generator** **Remote control unit**		**5.H-SIZE**	14. Input the circle pattern signal. 15. Select 5.H-SIZE and set the initial setting value. 16. Adjust H-SIZE and make sure that the horizontal screen size of the picture is in the bellow table. 17. Press the OK key and memorize the set value.
Adjustment of EW-PIN	**Signal generator** **Remote control unit**		**6.EW-PIN**	18. Select 6.EW-PIN and set the initial setting value 19. Adjust EW-PIN and make the 2nd vertical lines at the left and right edges of the screen straight. Also make sure that the 3rd vertical lines are straight. 20. Press the OK key and memorize the set value.

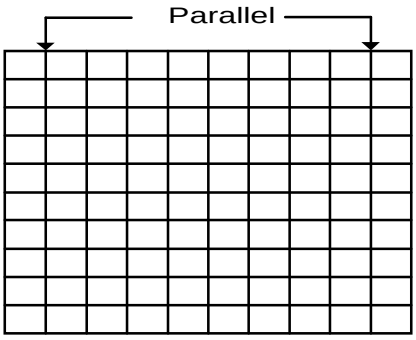


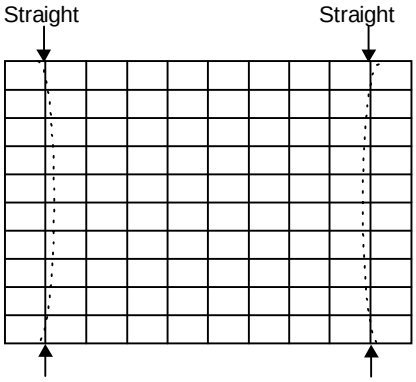
[HORIZONTAL SIZE]

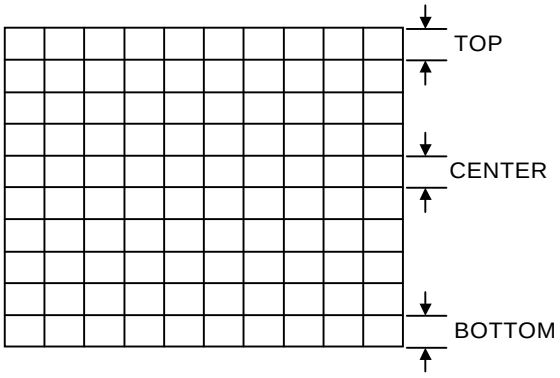
ASPECT MODE	REGULAR	ZOOM	16:9
H-SIZE	92%	85%	92%



Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of TRAPEZ.	**Signal generator** **Remote control unit**		**7.TRAPEZ.**	21. Input the cross-hatch signal. 22. Select 7.TRAPEZ with the MENU UP/DOWN key. 23. Set the initial setting value of TRAPEZ with the MENU LEFT/RIGHT key. 24. Adjust TRAPEZ and bring the vertical lines at the right and left edges of the screen parallel . 25. Press the OK key and memorize the set value.
Adjustment of EW. COR. L/H	**Signal generator** **Remote control unit**		**8.EW. COR. L** **9.EW. COR. H**	26. Select 8.EW. COR. L with the MENU UP / DOWN key. 27. Set the initial setting value of EW. COR. L with the MENU LEFT/RIGHT key. 28. Adjust EW. COR. L, and bring the line to straight at the corner of the screen bottom. 29. Select 9.EW. COR. H with the MENU UP / DOWN key. 30. Set the initial setting value of EW. COR. H with the MENU LEFT/RIGHT key. 31. Adjust EW. COR. H, and bring the line to straight at the corner of the screen top. 32. Press the OK key and memorize the set value.
Adjustment of V-S.CR & V.LINEARITY	**Signal generator** **Remote control unit**		**10. V-S.CR** **11. V-LIN**	● **In case when the vertical linearity has been deteriorated remarkably, perform the following steps.** 33. Input the cross-hatch signal. 34. Select 11.V-LIN with the MENU UP/DOWN key. 35. Set the initial setting value of 11.V-LIN with the MENU LEFT/RIGHT key. 36. Select 10.V-S.CR with the MENU UP / DOWN key. 37. Set the initial setting value of 10.V-S.CR with the MENU LEFT/RIGHT key. 38. Adjust 11.V-LIN and 10.V-S.CR so that the spaces of each line on top, center and bottom become uniform.







Item	Measuring instrument	Test point	Adjustment part	Description
				At first the adjustment in 50Hz-REGULAR mode should be done, then the data for the other aspect mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 60Hz(NTSC Video mode) REGULAR mode. If the adjustment in 50Hz each aspect mode has been done and stored, the data for the same aspect modes in 60Hz is corrected in the respective value. Only the data for the other aspect mode in 60Hz is corrected for itself.

AUDIO CIRCUIT ADJUSTMENT

Do not adjust 3.AUDIO(1. ERROR LIMIT, 2. A2 ID THR, 3. BASS, 4. TREBLE) of the SERVICE MENU as it requires no adjustment.

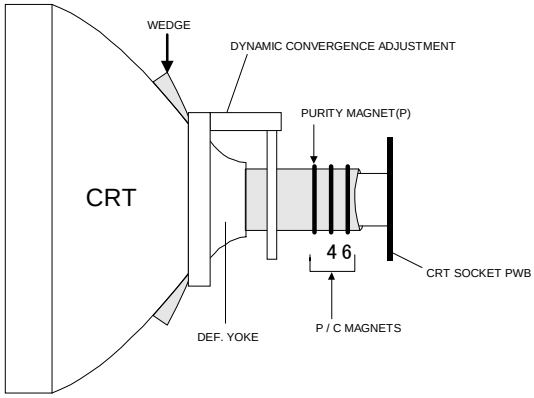
3. AUDIO [Do not adjust]

Setting item	Variable range	fixed value
1. ERROR LIMIT	000H ～ FF0H	100H
2. A2 ID THR	00H ～ FFH	14H
3. BASS	-17 ～ +17	+0
4. TREBLE	-17 ～ +17	+0

PURITY, CONVERGENCE ADJUSTMENT

PURITY ADJUSTMENT

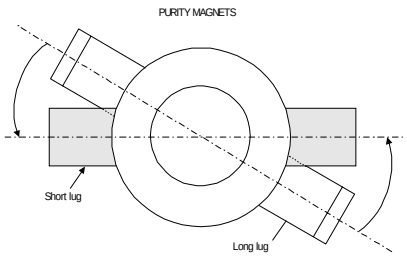
1. Demagnetize CRT with the demagnetizer.
2. Loosen the retainer screw of the deflection yoke.
3. Remove the wedges.
4. Input a green raster signal from the signal generator, and turn the screen to green raster.
5. Move the deflection yoke backward.
6. Bring the long lug of the purity magnets on the short lug and position them horizontally. (Fig.2)
7. Adjust the gap between two lugs so that the GREEN RASTER will come into the center of the screen. (Fig.3)
8. Move the deflection yoke forward, and fix the position of the deflection yoke so that the whole screen will become green.
9. Insert the wedge to the top side of the deflection yoke so that it will not move.
10. Input a crosshatch signal.
11. Verify that the screen is horizontal.
12. Input red and blue raster signals, and make sure that purity is properly adjusted.



P/C MAGNETS

P : PURITY MAGNET
4 : 4 POLES (convergence magnets)
6 : 6 POLES (convergence magnets)

Fig.1



Bring the long lug over the short lug and position them horizontally.

Fig.2

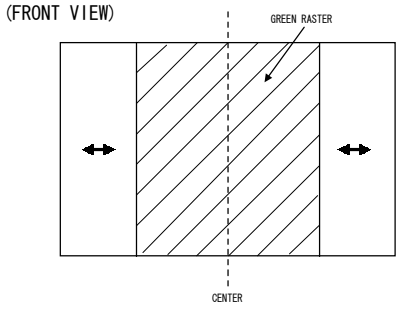


Fig.3

STATIC CONVERGENCE ADJUSTMENT

1. Input a crosshatch signal.
2. Using 4-pole convergence magnets, overlap the red and blue lines in the center of the screen (Fig.1) and turn them to magenta (red/blue).
3. Using 6-pole convergence magnets, overlap the magenta (red/blue) and green lines in the center of the screen and turn them to white.
4. Repeat 2 and 3 above, and make best convergence.

● After adjustment, fix the wedge at the original position.
Fasten the retainer screw of the deflection yoke.
Fix the 6 magnets with glue.

DYNAMIC (periphery) CONVERGENCE ADJUSTMENT

After adjusting purity & static convergence.

1. Move the deflection yoke up and down to adjust the pin cushion distortion in the screen top and bottom. (See Fig. 2)
2. Move the deflection yoke left to right to overlap the lines in the periphery, and match the Yv.(See Fig. 4)
3. Using the VR1 on the deflection yoke, match the Y_H (CROSS). (See Fig. 3 and 6)
4. Using the VR2 on the deflection yoke, match the Y_H (BOW). (See Fig. 3 and 6)
5. Repeat the steps 1 and 4 and obtain an optimum convergence.
6. Differential coil ADJUSTMENT.
In case where the horizontal lines of red and blue around the center of both sides of the picture as shown in Fig. 5, adjust the X_V difference by using the differential coil on the top of the deflection yoke (Fig. 6) so as to minimize the X_V difference.

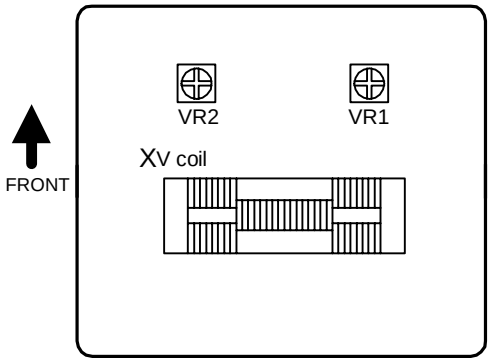


Fig. 6

(FRONT VIEW)

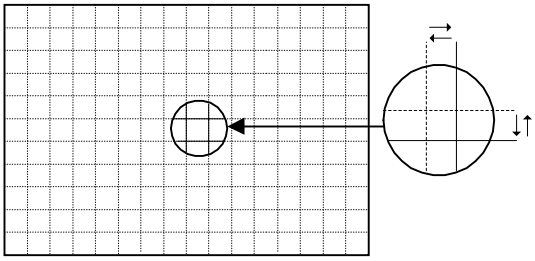


Fig. 1

(FRONT VIEW)

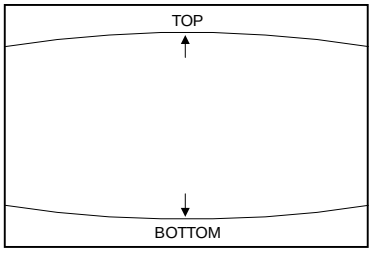


Fig. 2

(FRONT VIEW)

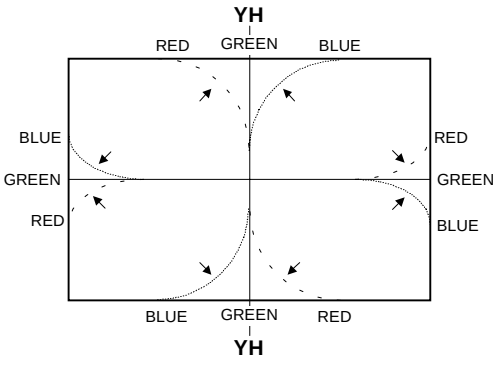


Fig. 3

(FRONT VIEW)

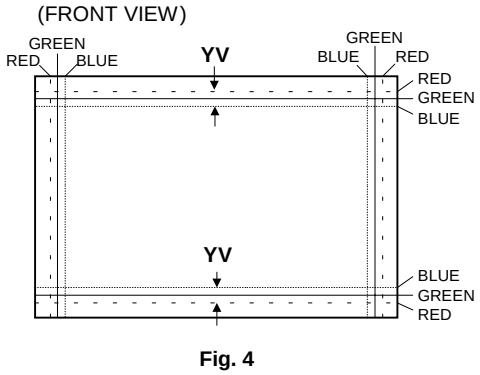


Fig. 4

(FRONT VIEW)

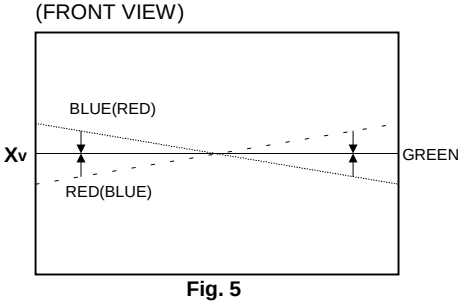


Fig. 5

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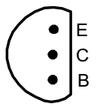
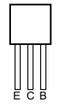
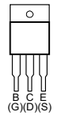
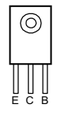
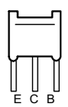
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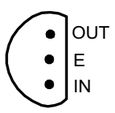
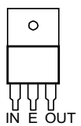
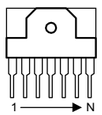
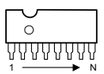
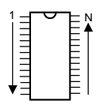
MAIN PWB PATTERN [SJK-1021A-H2] ····· 2-17
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SEMICONDUCTOR SHAPES

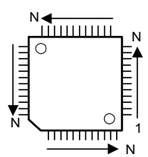
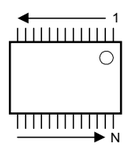
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

TOP VIEW		
		

AV-29RXB(C) 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 :[KΩ]
M :[MΩ]
●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

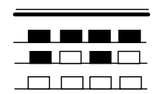
●Capacitance value
1 or higher :[pF]
less than 1 :[μF]
●Withstand voltage
No indication :DC50[V]
AC indicated :AC withstand voltage [V]
Others :DC withstand voltage [V]
*Electrolytic Capacitors
47/50[Example]:Capacitance value [μF]/withstand voltage[V]

●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

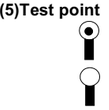
No unit :[μH]
Others :As specified

(4)Power Supply

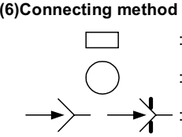

:B1
:12V
:9V
:5V

*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

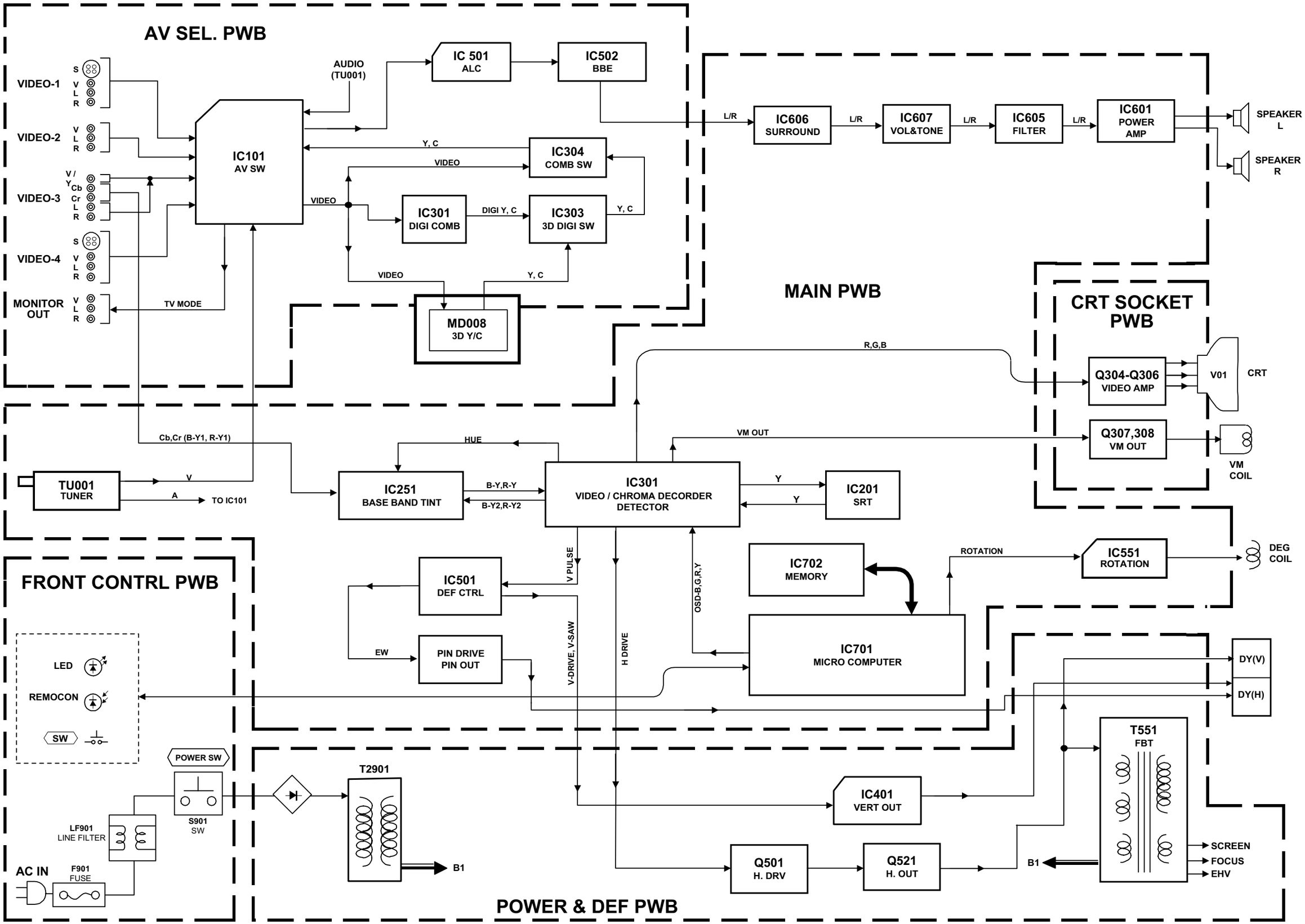
5.NOTE FOR REPAIRING SERVICE

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 (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.

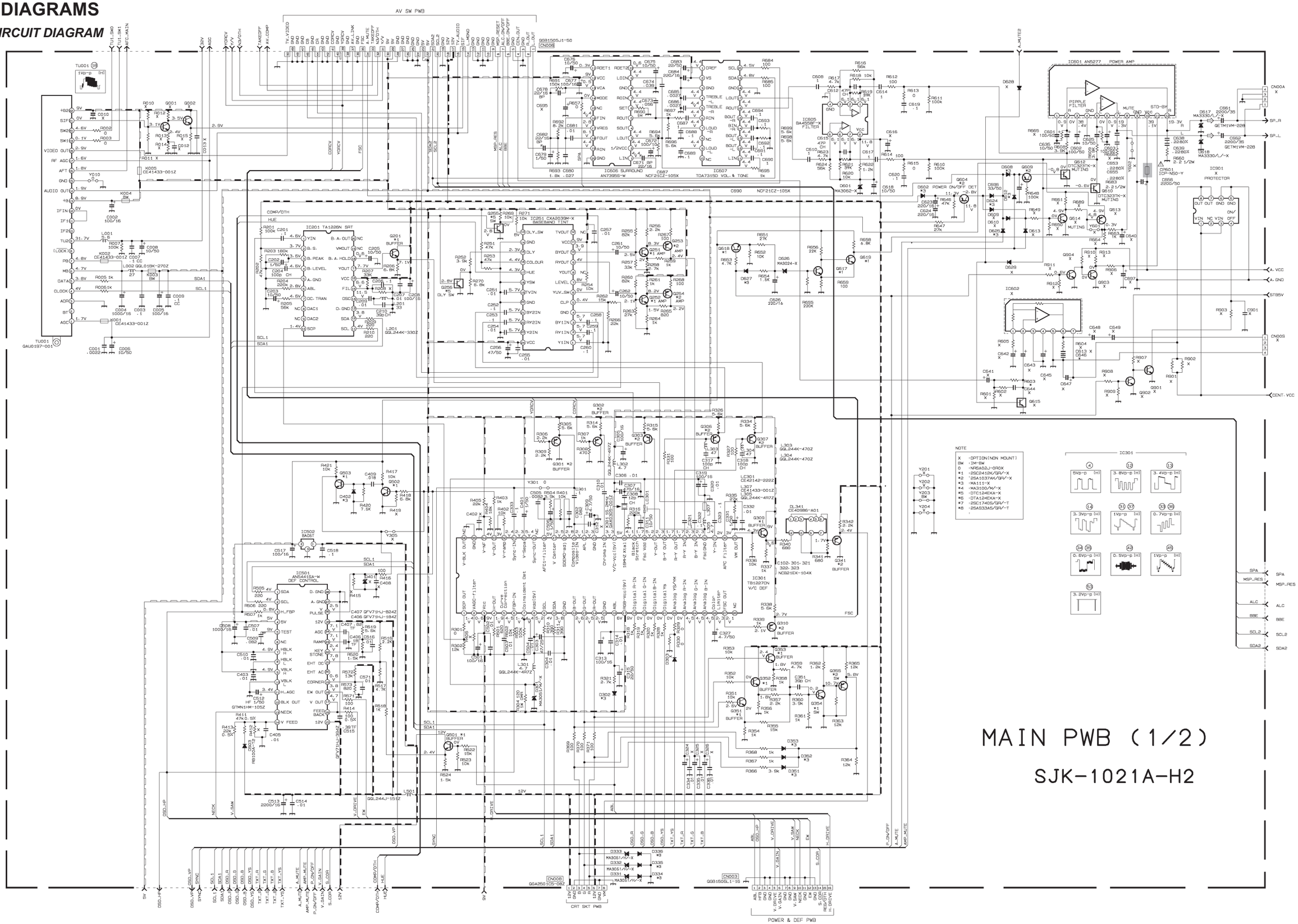
◇**Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

BLOCK DIAGRAM



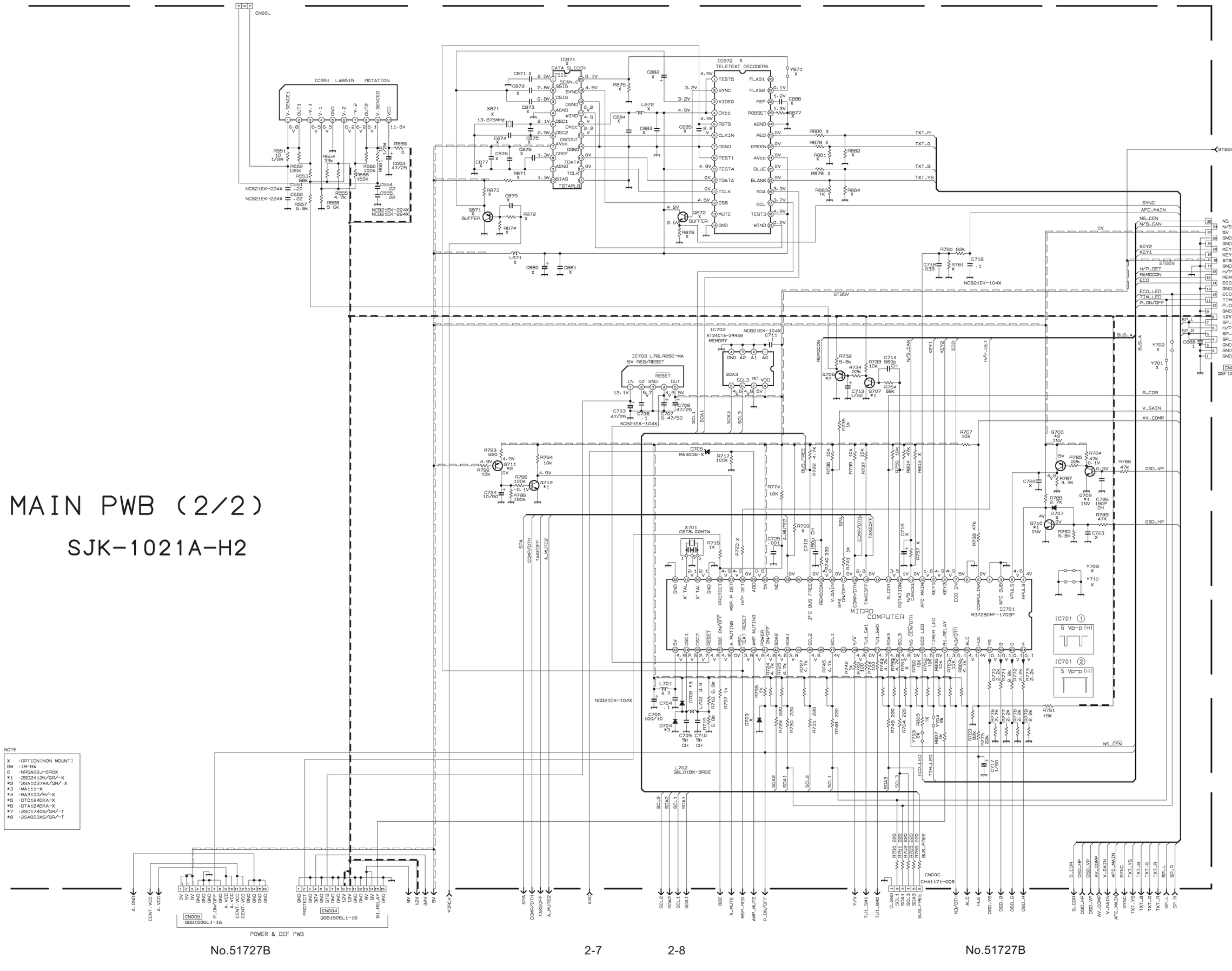
CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM



MAIN PWB (2/2)

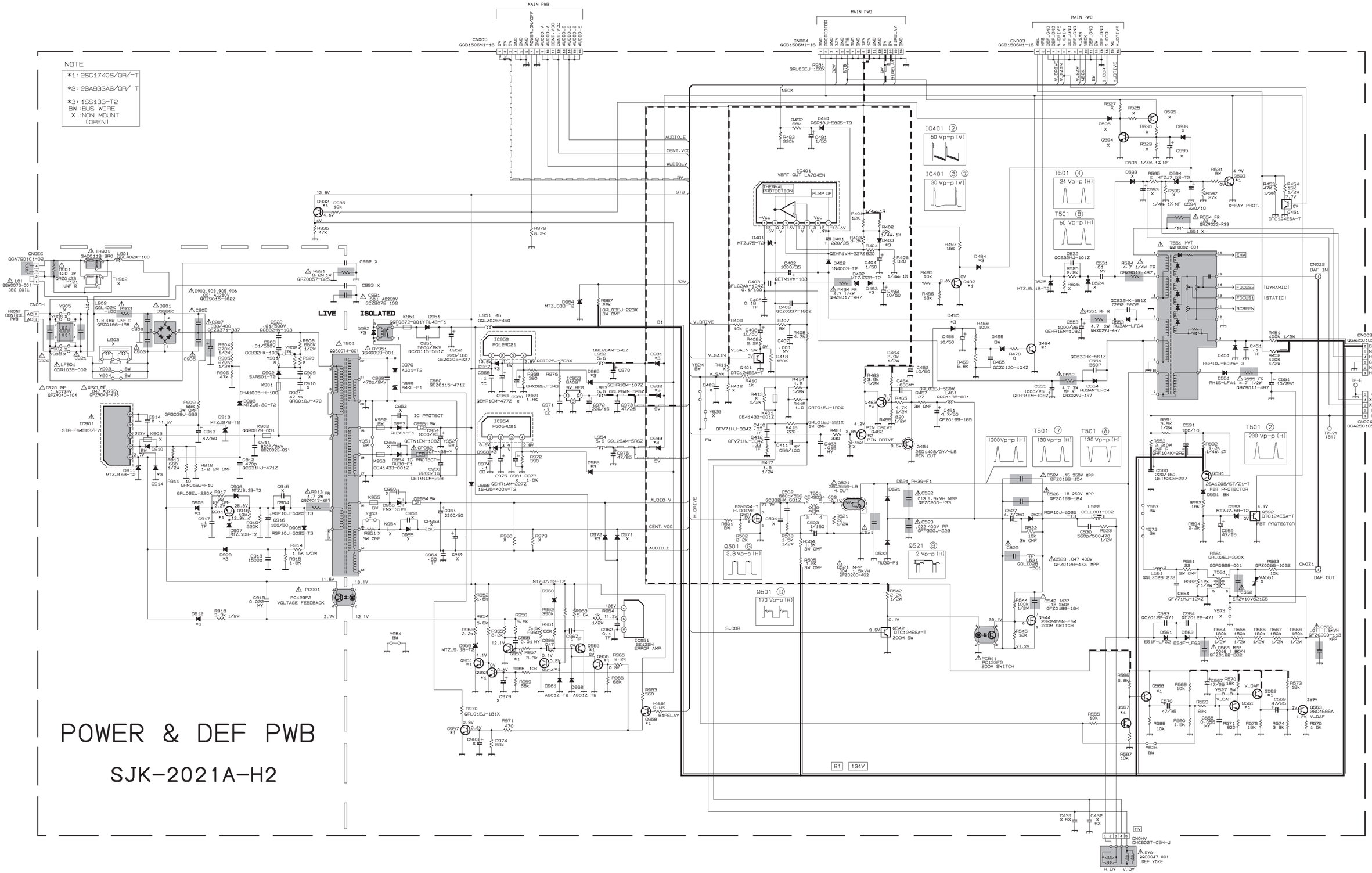
SJK-1021A-H2



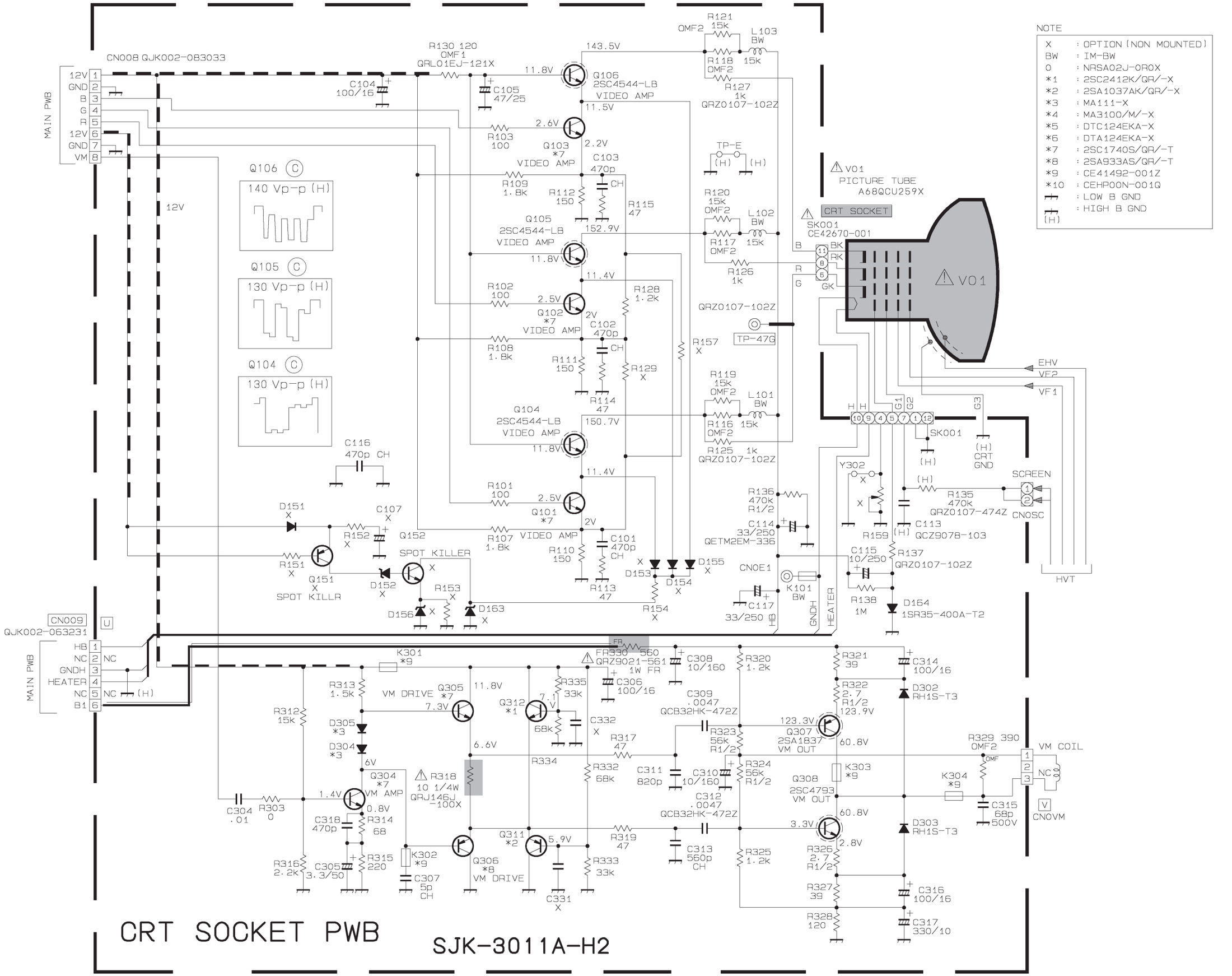
NOTE

X	:OPTION(NON MOUNT)
BW	:IM-BW
Ω	:NRSA02J-0R0X
*1	:2SC2412K/QR/-X
*2	:2SA1037AK/QR/-X
*3	:MA111-X
*4	:MA3100/M/-X
*5	:DTC124EKA-X
*6	:DTA124EKA-X
*7	:2SC1740S/QR/-T
*8	:2SA933AS/QR/-T

POWER & DEF PWB CIRCUIT DIAGRAM

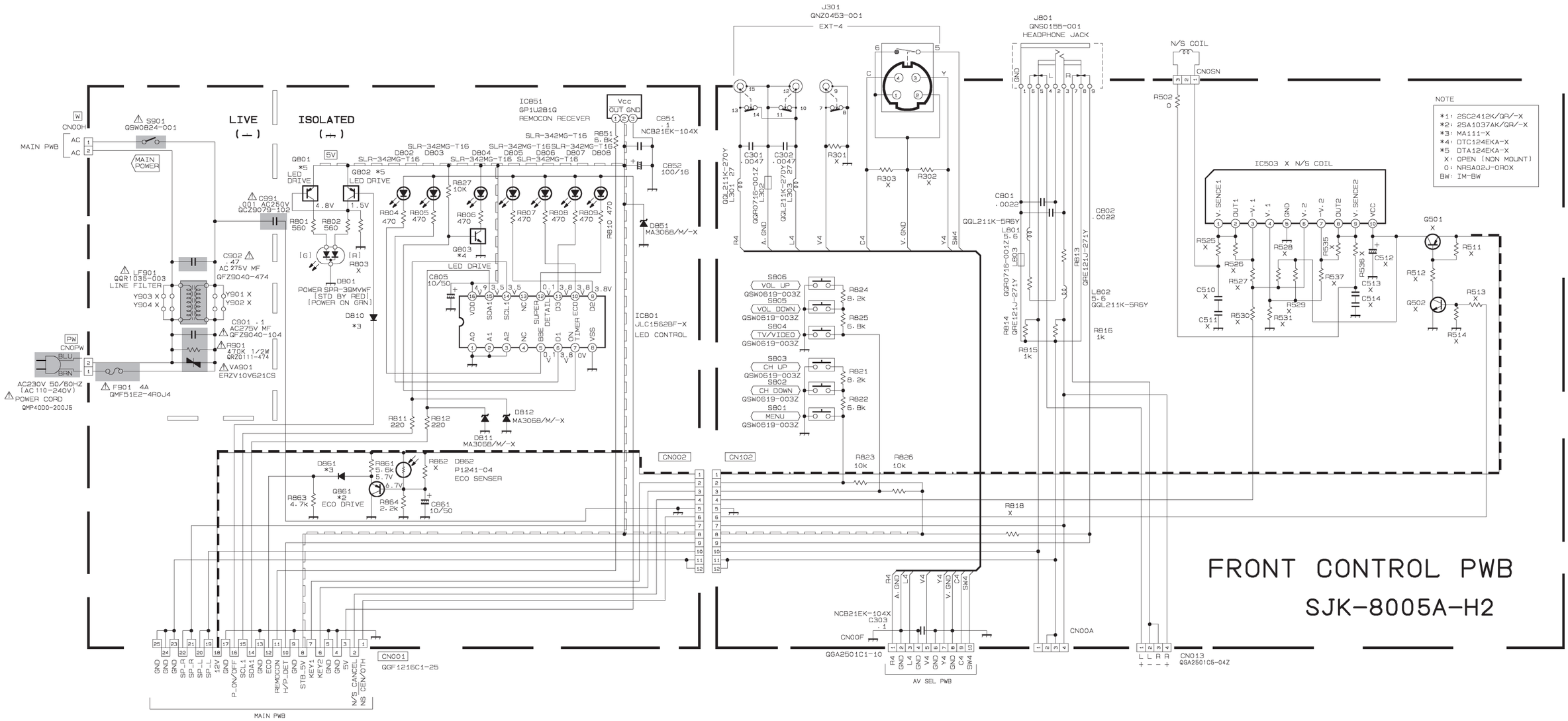


CRT SOCKET PWB CIRCUIT DIAGRAM



CRT SOCKET PWB SJK-3011A-H2

FRONT CONTROL PWB CIRCUIT DIAGRAM



AV SEL. PWB CIRCUIT DIAGRAM

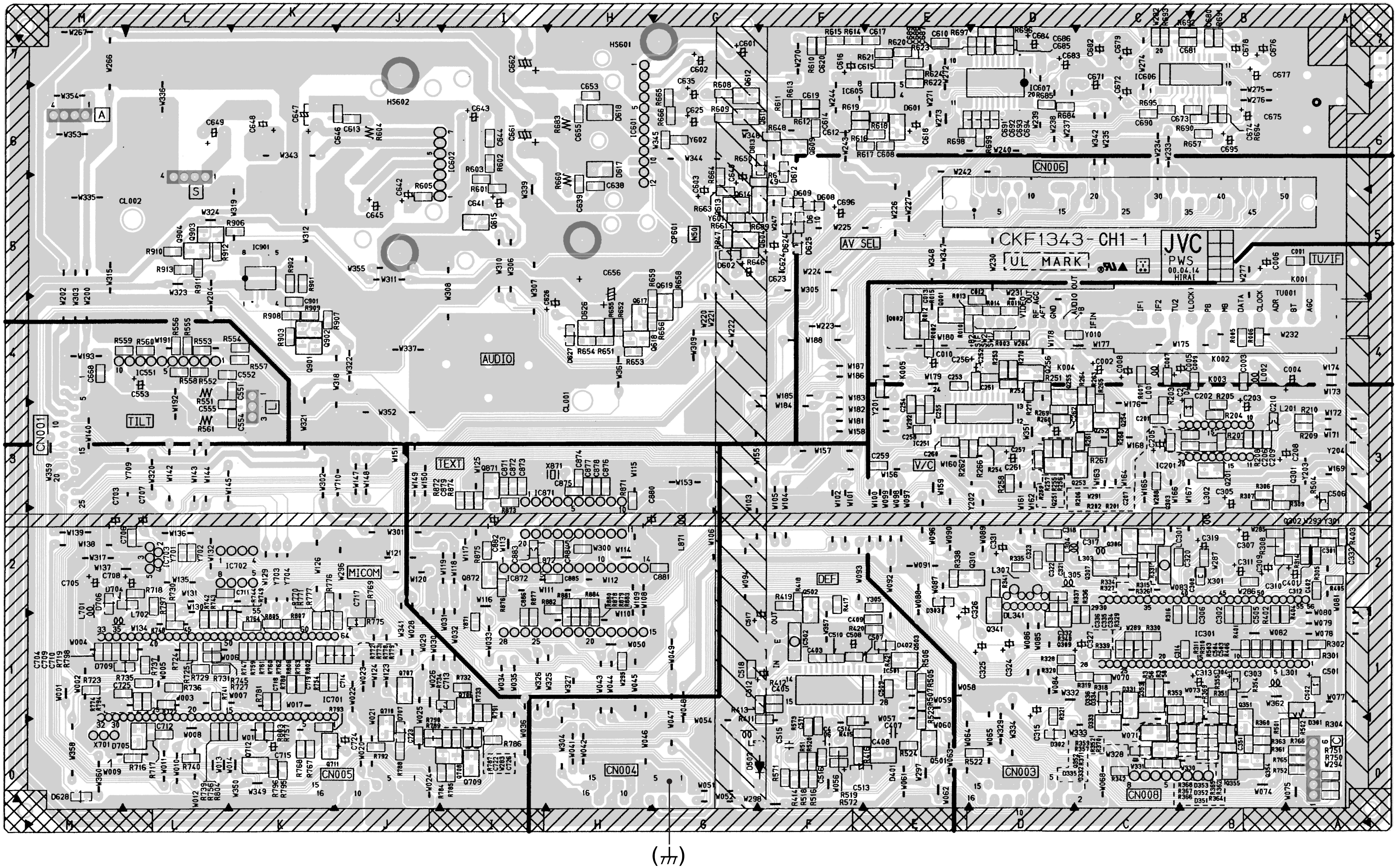
AV SEL. PWB

SJK0S002A-H2

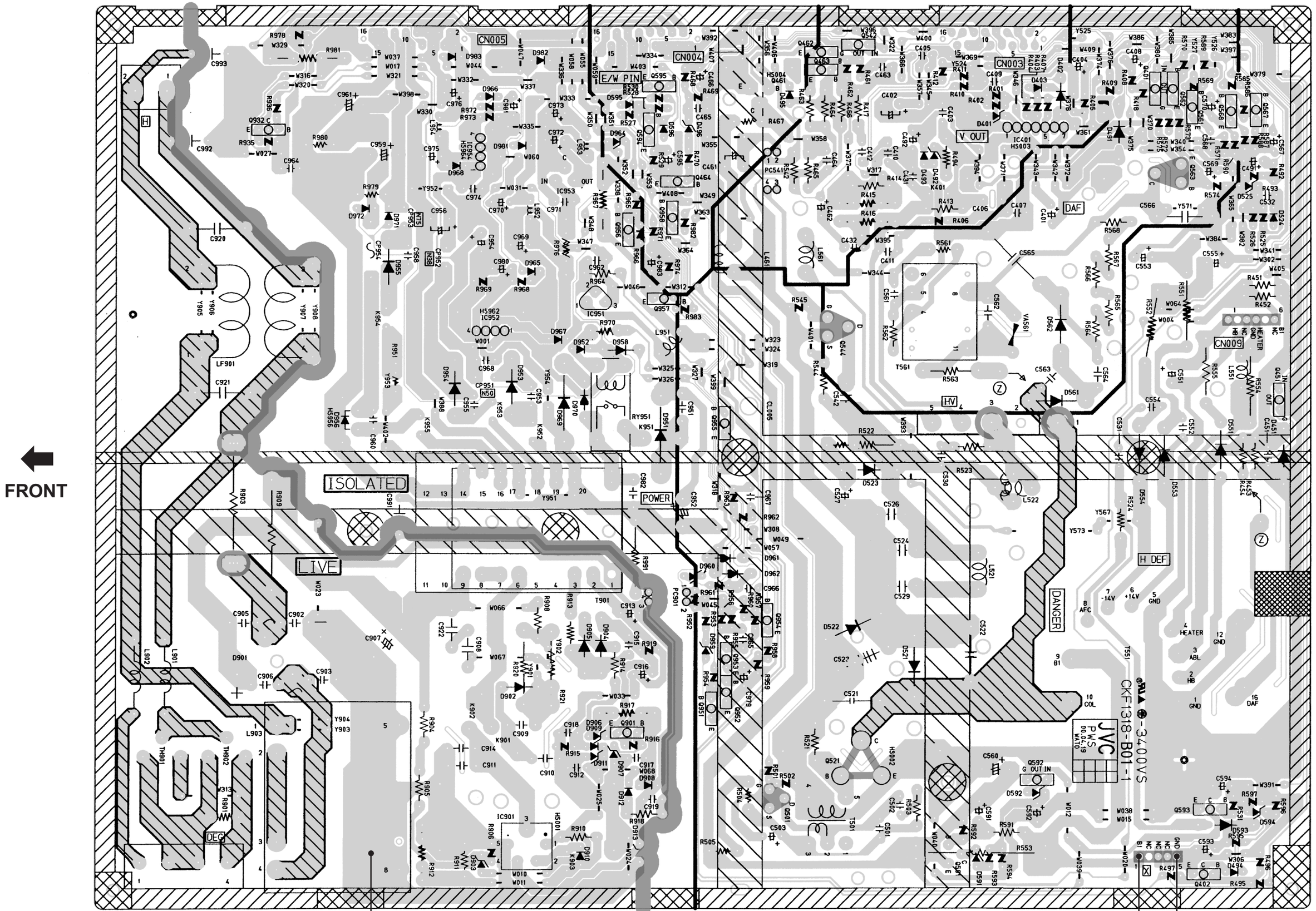
PATTERN DIAGRAMS

MAIN PWB PATTERN

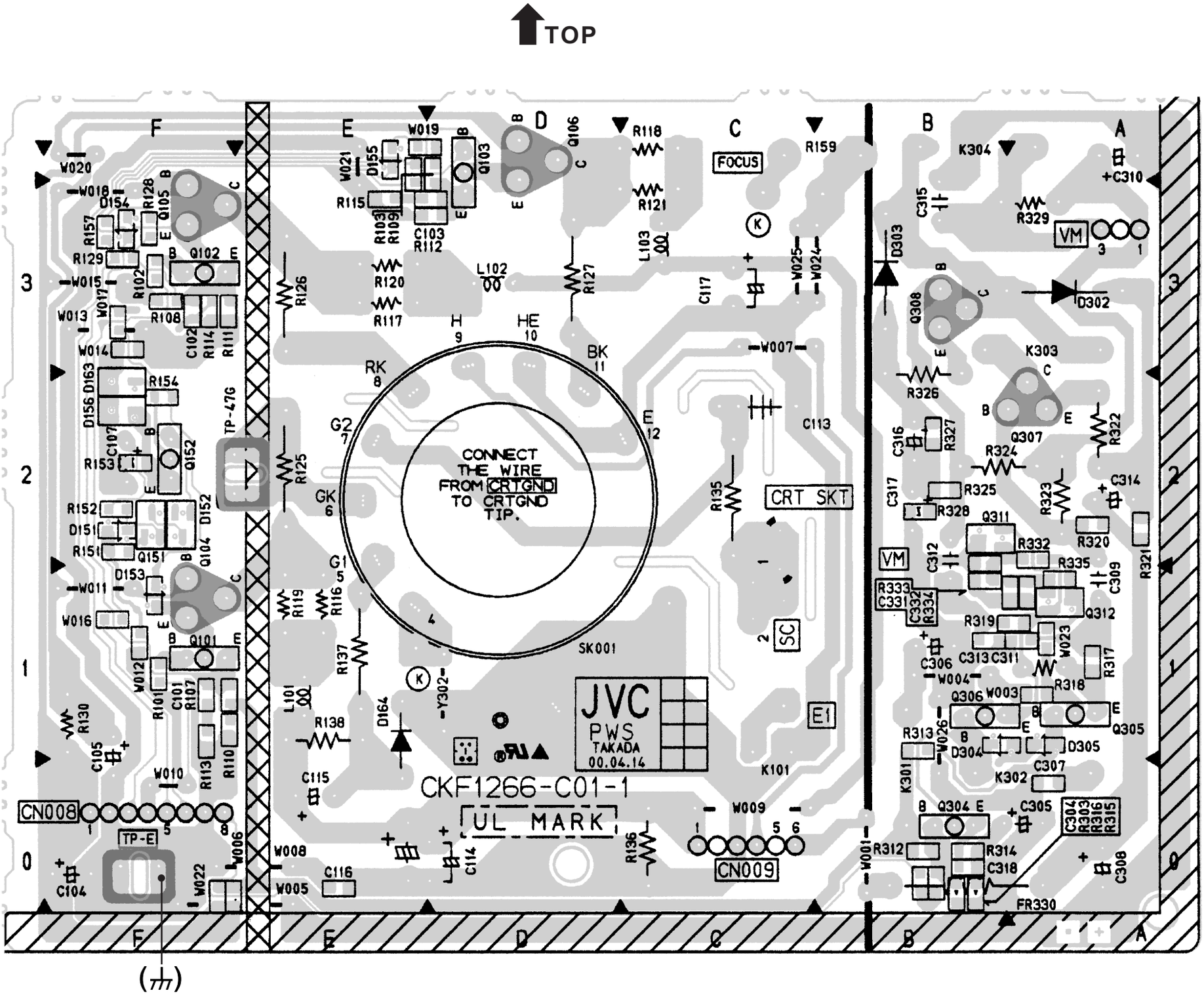
FRONT



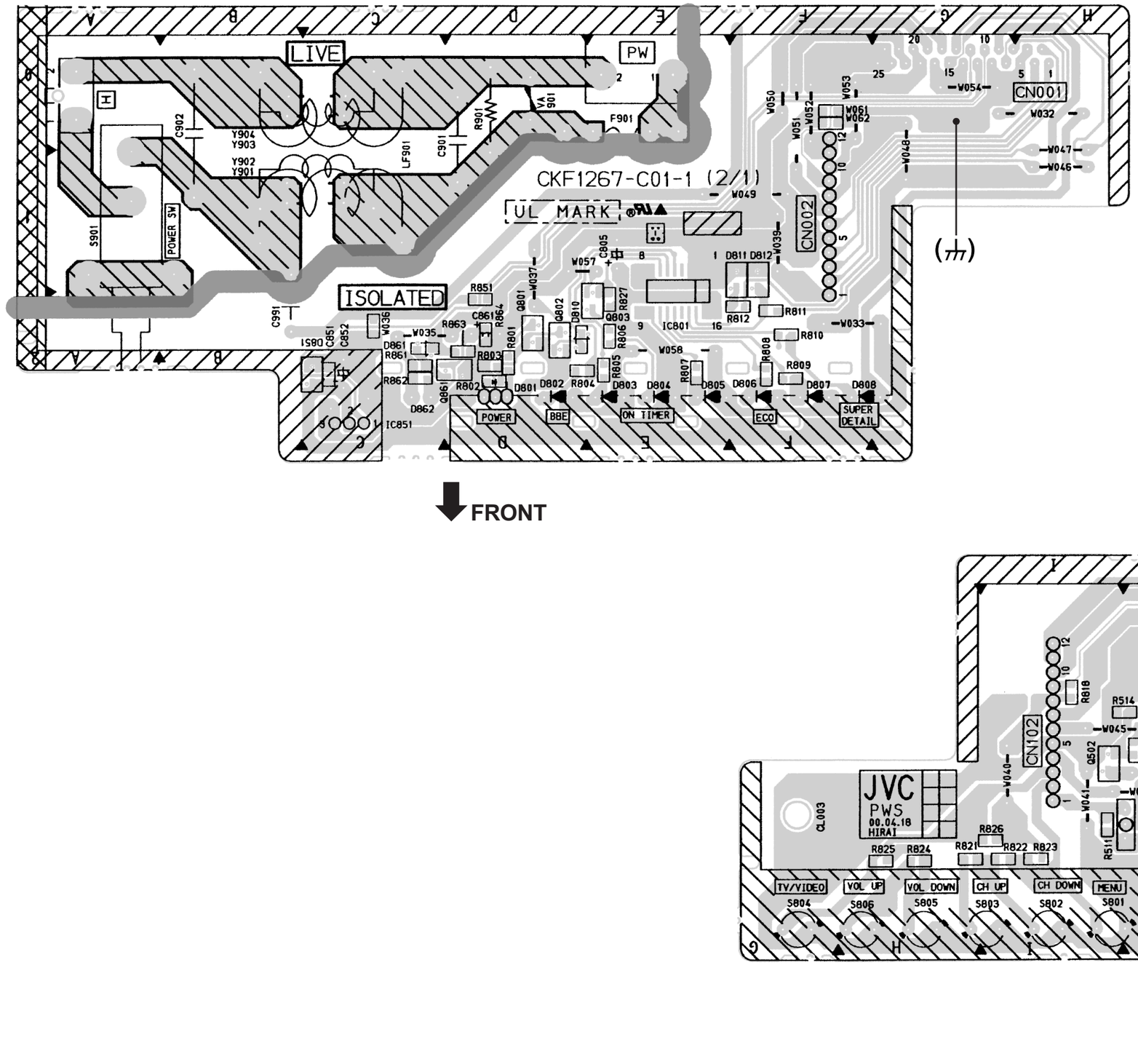
POWER & DEF PWB PATTERN



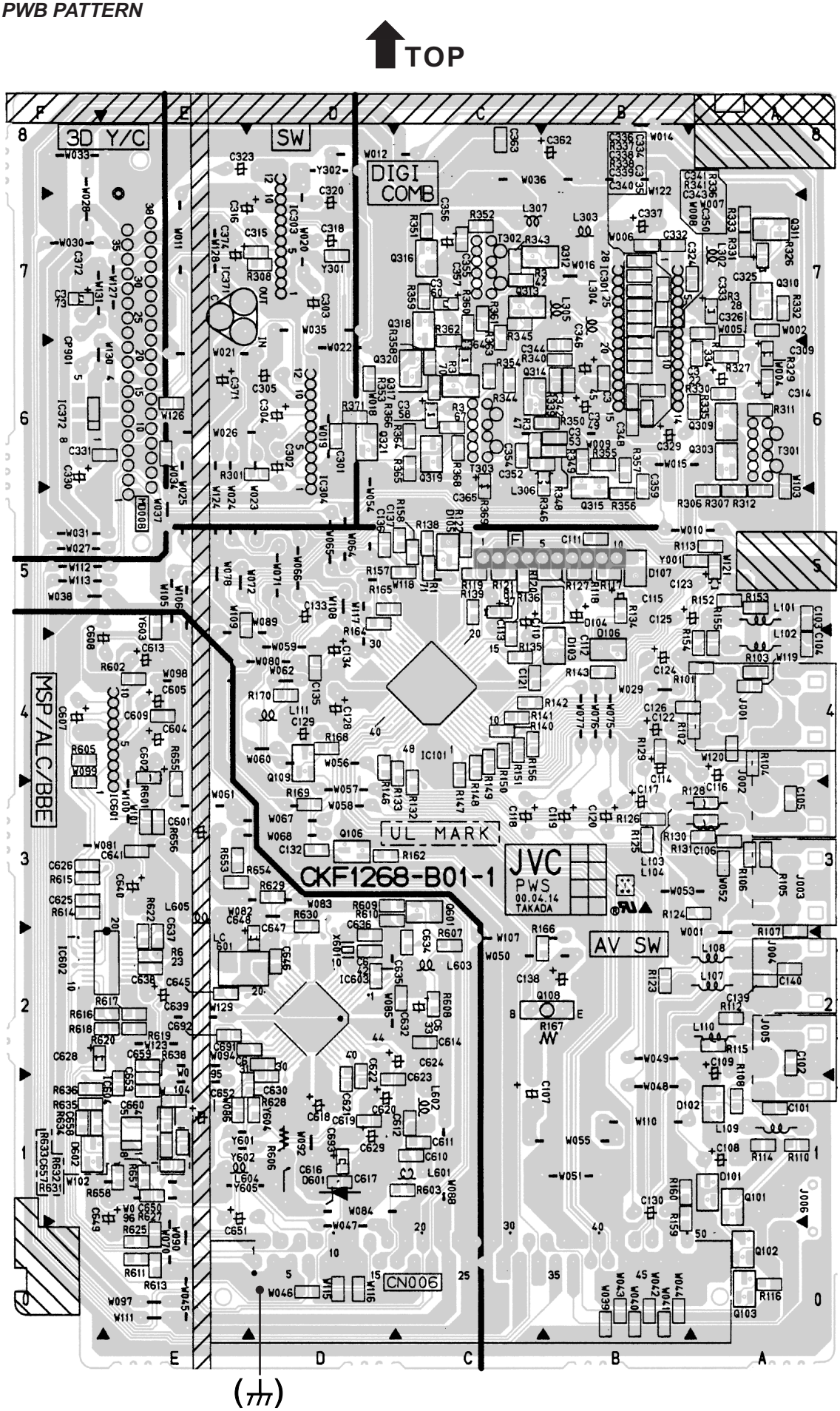
CRT SOCKET PWB PATTERN



FRONT CONTROL PWB PATTERN



AV SEL. PWB PATTERN



PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines —— in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

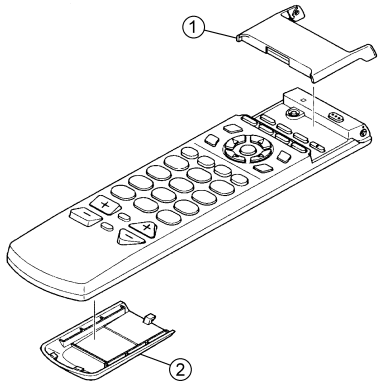
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■ **PRINTED WIRING BOARD PARTS LIST**
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REMOTE CONTROL UNIT PARTS LIST [RM-C111-2H]

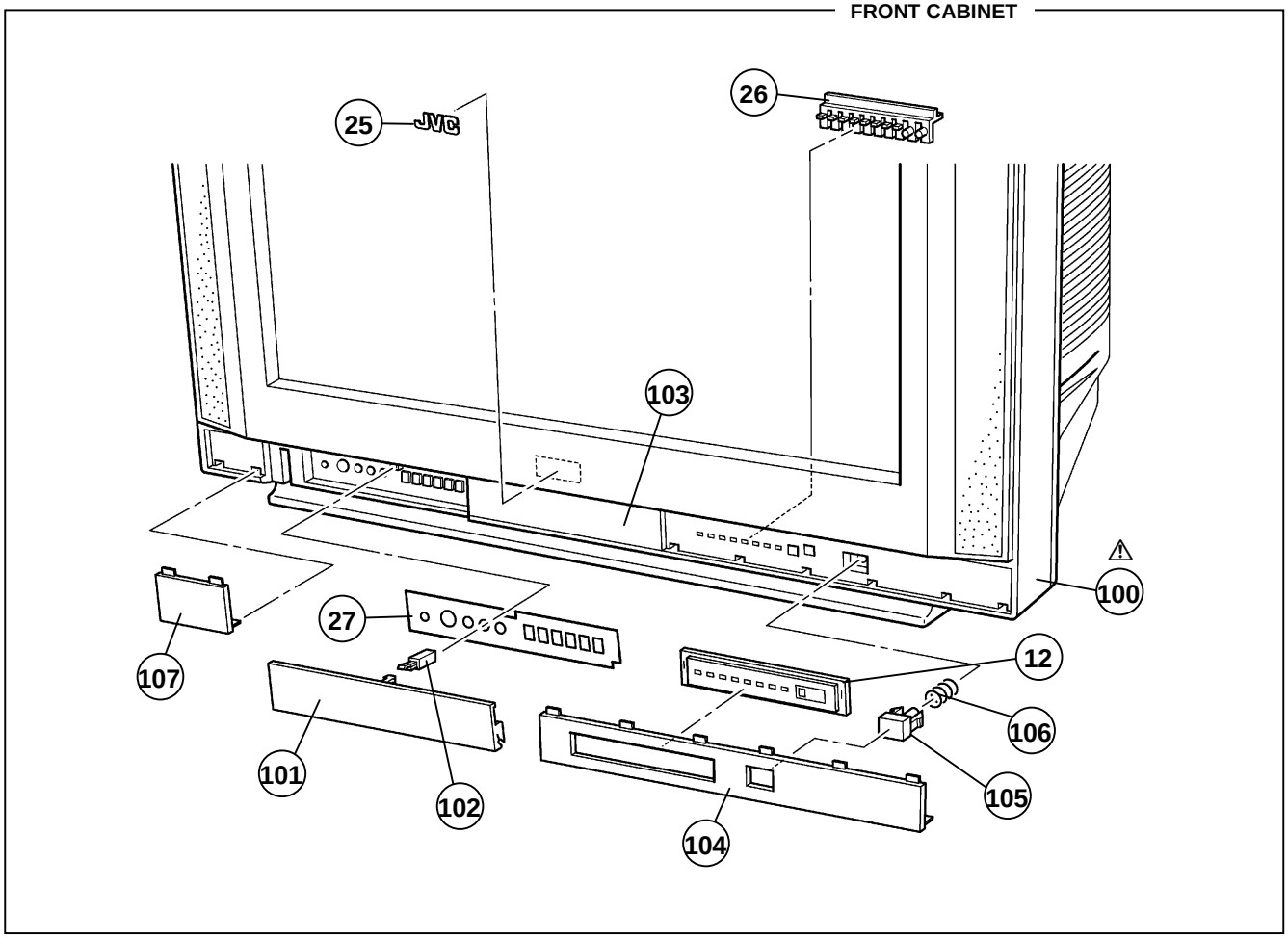


⚠ Ref.No.	Part No.	Part Name	Description
1	UR52FT1265A	SLIDE COVER	
2	UR52EC1264A	BATTERY COVER	

EXPLODED VIEW PARTS LIST (Ⅰ)

⚠ Ref.No.	Part No.	Part Name	Description
12	LC31220-001B	INDICATE WINDOW	
25	CM48125-009	JVC MARK	
26	LC31169-001B-H	L.E.D.LENS	
27	LC31070-003A-H	OPERATION SHEET	
⚠ 100	LC10761-005B-H	F.CABINET ASSY	Inc.No.101～107
101	LC20532-004B-H	DOOR	
102	CM48229-00A-C	DOOR LATCH	
103	LC31162-001B-H	CENTER PLATE	
104	LC20585-001B-H	RIGHT PLATE	
105	LC31067-001A-H	POWER KNOB	
106	CM35235-003-H	SPRING	
107	LC31165-001B-H	LEFT PLATE	

EXPLODED VIEW (Ⅰ)

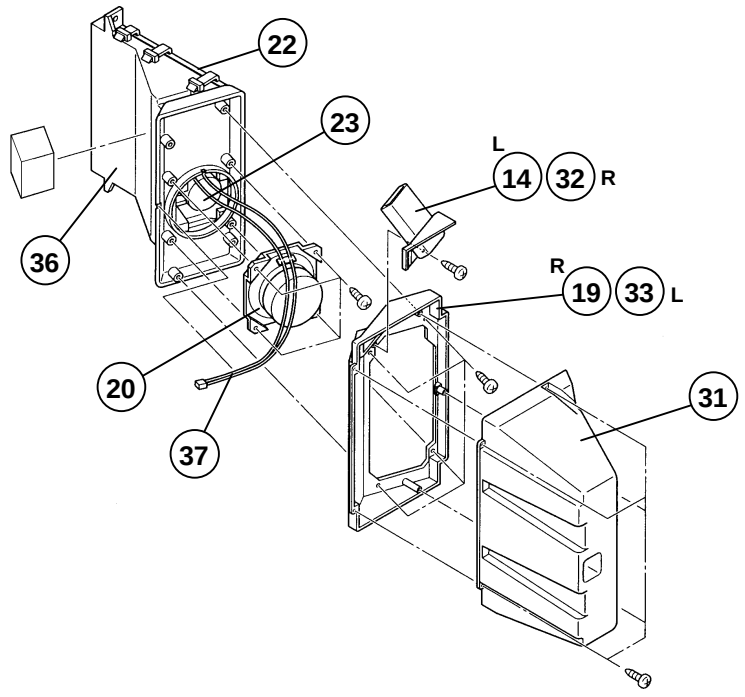


EXPLODED VIEW PARTS LIST(Ⅱ)

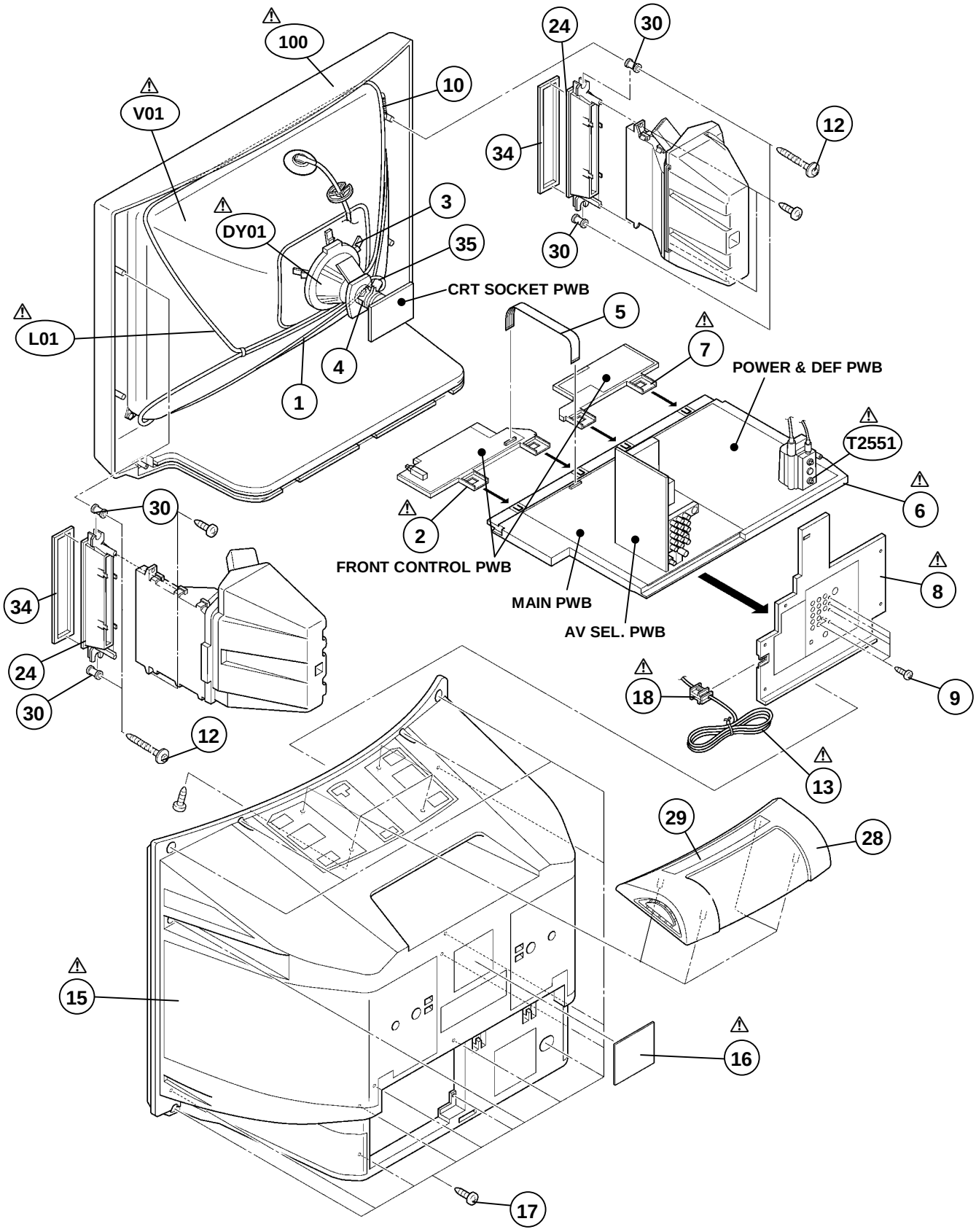
⚠	Ref.No.	Part No.	Part Name	Description
⚠	V01	A68QCU259X	PICTURE TUBE(C)	
⚠	DY01	QQD0047-001	DEFLECTION YOKE	
⚠	L01	QQW0073-001	DEG COIL	
⚠	T2551	QQH0082-001	HVT	Within POWER & DEF PWB
	1	CHGB0020-0B-FH	BRAIDED WIRE	
⚠	2	LC10765-002B-H	CONTROL BASE R	
	3	CE41488-00A	WEDGE ASSY	(×4)
	4	CE42388-00A	P.C.MAGNET	
	5	CHFD125-08BD-N	FFC WIRE	
⚠	6	LC10764-001A-H	CHASSIS BASE	
⚠	7	LC10765-001B-H	CONTROL BASE L	
⚠	8	LC10766-001B-H	TERMINAL BOARD	
	9	QYSBSF3012M	TAPPING SCREW	(×5)For TERMINAL BOARD
	10	A48457-3-H	SPRING	
	12	LC40317-002A-H	TAPPING SCREW	(×4)
⚠	13	QMP40D0-200J5	POWER CORD	
	14	CM23139-B02-H	REFLECTOR L	
⚠	15	LC10763-001C-H	REAR COVER	
⚠	16	LC20377-010B-H	RATING LABEL	
	17	QYSBSFG4016Z	TAPPING SCREW	(×16)
⚠	18	CM23167-A01-H	CORD CLAMP	
	19	CM12945-B01-H	DOME RING R	
	20	CEBSF10P-07KJ6	SPEAKER	(×2)SP01,SP02
	22	LC10051-001A-H	DOME COVER	(×2)
	23	CEBSS03K-01KJ2	SPEAKER	(×2)SP04,SP05
	24	LC10767-001A-H	DOME ADAPTOR	(×2)
	28	LC10770-001B-H	TOP GRILLE	
	29	LC31074-001A	TOP PLATE	
	30	LC40226-001A	SPACER	(×4)
	31	CM12946-B01-H	DOME BOX	(×2)
	32	CM23139-A01-H	REFLECTOR R	
	33	CM12945-B02-H	DOME RING L	
	34	CM34837-026-H	STICK SHEET	(×2)
	35	CHGB0017-0C	BRAIDED SUB ASSY	
	36	LC10050-001A-H	HORN	(×2)
	37	CHGS0057-AA	S.P WIRE ASSY	

EXPLODED VIEW(Ⅱ)

SPEAKER



EXPLODED VIEW (Ⅲ)



PRINTED WIRING BOARD PARTS LIST

MAIN PW BOARD ASS'Y (SJK-1021A-H2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R1002-03	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1005-06	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1007	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1201	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1202	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1203	NRSA02J-184X	MG R	180kΩ 1/10W J
	R1204	NRSA02J-224X	MG R	220kΩ 1/10W J
	R1205	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1206	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1207	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1209-10	NRSA02J-221X	MG R	220Ω 1/10W J
	R1251	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1252	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1253	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1254	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1255	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1256	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1257	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1258	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1259	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1260	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1261	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1262	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1263	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1264	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1265	NRSA02J-821X	MG R	820Ω 1/10W J
	R1266	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1267-68	NRSA02J-101X	MG R	100Ω 1/10W J
	R1269	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1270	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1271	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1301	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1302	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1304	QRG01GJ-121	OM R	120Ω 1W J
	R1305	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1306	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1307	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1308	NRSA02J-471X	MG R	470Ω 1/10W J
	R1309	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1310-11	NRSA02J-391X	MG R	390Ω 1/10W J
	R1314-15	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1316	NRSA02J-224X	MG R	220kΩ 1/10W J
	R1318-20	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1321	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1326	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1327	NRSA02J-101X	MG R	100Ω 1/10W J
	R1328	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1329-30	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1331	NRSA02J-101X	MG R	100Ω 1/10W J
	R1334	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1335	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1336	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1337	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1338	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1339	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1340-41	NRSA02J-681X	MG R	680Ω 1/10W J
	R1342	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1346	QRE141J-102Y	C R	1kΩ 1/4W J
	R1351-53	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1354	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1355	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1356	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1357	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1358	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1359	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1360	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1361	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1362	NRSA02J-122X	MG R	1.2kΩ 1/10W J

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R1363-65	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1366	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1367-68	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1369-71	NRSA02J-101X	MG R	100Ω 1/10W J
	R1401-02	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1403	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1404	NRSA02J-183X	MG R	18kΩ 1/10W J
	R1405	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1411	NRVA02D-473X	MF R	47kΩ 1/10W D
	R1413	NRVA02D-223X	MF R	22kΩ 1/10W D
	R1414	NRVA02D-101X	MF R	100Ω 1/10W D
	R1416	NRSA02J-101X	MG R	100Ω 1/10W J
	R1417	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1418	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1420	NRSA02J-752X	MG R	7.5kΩ 1/10W J
	R1421	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1501	NRSA02J-621X	MG R	620Ω 1/10W J
	R1502	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1503	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1504	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R1505-06	NRSA02J-221X	MG R	220Ω 1/10W J
	R1507	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1516	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R1517	NRSA02J-752X	MG R	7.5kΩ 1/10W J
	R1518	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1519	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1520	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1522	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1523	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1524	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1551	QRK126J-100X	C R	10Ω 1/2W J
	R1552	NRSA02J-124X	MG R	120kΩ 1/10W J
	R1553	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1554	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1555	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1556	NRSA02J-154X	MG R	150kΩ 1/10W J
	R1557-58	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1559	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1560	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1561	QRK126J-100X	C R	10Ω 1/2W J
	R1571	NRSA02J-101X	MG R	100Ω 1/10W J
	R1572	NRSA02J-133X	MG R	13kΩ 1/10W J
	R1573	NRSA02J-821X	MG R	820Ω 1/10W J
	R1608-09	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1610-11	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1612	NRSA02J-101X	MG R	100Ω 1/10W J
	R1613	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1614	NRSA02J-101X	MG R	100Ω 1/10W J
	R1615	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1616	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1617	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1618	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1619	NRSA02J-393X	MG R	39kΩ 1/10W J
	R1620	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1621	NRSA02J-393X	MG R	39kΩ 1/10W J
	R1622	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R1623	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1624	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1646	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1647	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1648	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1651	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1652	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1653	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1654	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1655	NRSA02J-224X	MG R	220kΩ 1/10W J
	R1656	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1657	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1658	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1659	NRSA02J-101X	MG R	100Ω 1/10W J
	R1660	QRK126J-2R2X	C R	2.2Ω 1/2W J
	R1663	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1683	QRK126J-2R2X	C R	2.2Ω 1/2W J
	R1684-85	NRSA02J-101X	MG R	100Ω 1/10W J
	R1690	NRSA02J-105X	MG R	1MΩ 1/10W J
	R1691	NRSA02J-154X	MG R	150kΩ 1/10W J
	R1692	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R1693	NRSA02J-182X	MG R	1.8kΩ 1/10W J
	R1694	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1695	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1696	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1697	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1698-99	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1716	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1718-19	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1722	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1724-25	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1727	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1729-31	NRSA02J-221X	MG R	220Ω 1/10W J
	R1732	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1733	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1734	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1735	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1736-37	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1739	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1740	NRSA02J-331X	MG R	330Ω 1/10W J
	R1741-42	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1743-44	NRSA02J-101X	MG R	100Ω 1/10W J
	R1745	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1747	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1748-52	NRSA02J-221X	MG R	220Ω 1/10W J
	R1754	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1756	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1757	NRSA02J-393X	MG R	39kΩ 1/10W J
	R1759	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1761	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1763	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1764-66	NRSA02J-221X	MG R	220Ω 1/10W J
	R1767	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1768	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1769	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1770-73	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1774	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1775	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1776	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1777-79	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1780	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1784	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1785	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1786	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1787	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R1788	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1789	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1790	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1791	NRSA02J-183X	MG R	18kΩ 1/10W J
	R1792	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1793	NRSA02J-821X	MG R	820Ω 1/10W J
	R1794	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1795	NRSA02J-184X	MG R	180kΩ 1/10W J
	R1796	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1797-98	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1802	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1803-04	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1806	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1807	NRSA02J-102X	MG R	1kΩ 1/10W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C1001	NCB21HK-222X	C CAP.	2200pF 50V K
	C1002	QETN1CM-107Z	E CAP.	100µF 16V M
	C1003	NCB21EK-104X	C CAP.	0.1µF 25V K
	C1004	QETN1CM-108Z	E CAP.	1000µF 16V M
	C1005	QETN1CM-107Z	E CAP.	100µF 16V M
	C1006	QETN1HM-106Z	E CAP.	10µF 50V M
	C1007	NCB21EK-104X	C CAP.	0.1µF 25V K
	C1008	QETN1HM-106Z	E CAP.	10µF 50V M
	C1009	NCB21EK-104X	C CAP.	0.1µF 25V K
	C1201	NCB21EK-104X	C CAP.	0.1µF 25V K
	C1202	QETN1HM-105Z	E CAP.	1µF 50V M
	C1203	QETN1HM-106Z	E CAP.	10µF 50V M
	C1204	NDC21HJ-101X	C CAP.	100pF 50V J
	C1205	QETN1HM-106Z	E CAP.	10µF 50V M
	C1206	NCB21EK-104X	C CAP.	0.1µF 25V K
	C1207	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1208	QETN1CM-107Z	E CAP.	100µF 16V M
	C1209	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1210	NDC21HJ-390X	C CAP.	39pF 50V J
	C1251	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1252-53	NCB21EK-104X	C CAP.	0.1µF 25V K
	C1254-55	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1256	QETN1HM-476Z	E CAP.	47µF 50V M
	C1257	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1258-60	NCB21EK-104X	C CAP.	0.1µF 25V K
	C1261-62	QETN1HM-106Z	E CAP.	10µF 50V M
	C1301	NCB21EK-104X	C CAP.	0.1µF 25V K
	C1302	NCB21HK-823X	CHIP CAP.	0.082µF 50V K
	C1303	QETN1EM-476Z	E CAP.	47µF 25V M
	C1304	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1305	QETN1CM-107Z	E CAP.	100µF 16V M
	C1306	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1307	QETN1CM-477Z	E CAP.	470µF 16V M
	C1308	NDC21HJ-120X	C CAP.	12pF 50V J
	C1309	QETN1HM-475Z	E CAP.	4.7µF 50V M
	C1310	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1311	QETN1HM-106Z	E CAP.	10µF 50V M
	C1313	QETN1CM-107Z	E CAP.	100µF 16V M
	C1314	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1315	QETN1HM-226Z	E CAP.	22µF 50V M
	C1317-18	NDC21HJ-101X	C CAP.	100pF 50V J
	C1319	QETN1CM-107Z	E CAP.	100µF 16V M
	C1320	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1321-23	NCB21EK-104X	C CAP.	0.1µF 25V K
	C1327	QETN1HM-475Z	E CAP.	4.7µF 50V M
	C1331	QETN1HM-105Z	E CAP.	1µF 50V M
	C1332	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1333	NCB21EK-104X	C CAP.	0.1µF 25V K
	C1334-36	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1351	NDC21HJ-390X	C CAP.	39pF 50V J
	C1401	QETN1HM-105Z	E CAP.	1µF 50V M
	C1403	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1405	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1406	QFV71HJ-184Z	MF CAP.	0.18µF 50V J
	C1407	QFV71HJ-824Z	MF CAP.	0.82µF 50V J
	C1409	NCB21HK-183X	C CAP.	0.018µF 50V K
	C1501	QETN1CM-477Z	E CAP.	470µF 16V M
	C1502-04	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1505	NCB21HK-822X	C CAP.	8200pF 50V K
	C1506	QETN1HM-105Z	E CAP.	1µF 50V M
	C1507	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1508	QETN1CM-108Z	E CAP.	1000µF 16V M
	C1509	NCB21HK-823X	CHIP CAP.	0.082µF 50V K
	C1510	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1512	QTMN1HM-105Z	E CAP.	0.1µF 50V M
	C1513	QETM1CM-228	E CAP.	2200µF 16V M
	C1514	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1515	QFV71HJ-394Z	MF CAP.	0.39µF 50V J
	C1516	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1517	QETN1CM-107Z	E CAP.	100µF 16V M
	C1518	NCB21EK-104X	C CAP.	0.1µF 25V K
	C1551-52	NCB21EK-224X	CHIP CAP.	0.22µF 25V K

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C1553	QETN1EM-476Z	E CAP.	47μF 25V M
	C1554-55	NCB21EK-224X	CHIP CAP.	0.22μF 25V K
	C1571	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1601-03	QETN1HM-107Z	E CAP.	100μF 50V M
	C1608	NCF21CZ-105X	C CAP.	1μF 16V Z
	C1610	NCF21CZ-105X	C CAP.	1μF 16V Z
	C1612	NDC21HJ-470X	C CAP.	47pF 50V J
	C1614	NCF21CZ-105X	C CAP.	1μF 16V Z
	C1615	NDC21HJ-470X	C CAP.	47pF 50V J
	C1617	NCF21CZ-105X	C CAP.	1μF 16V Z
	C1618	QETN1HM-106Z	E CAP.	10μF 50V M
	C1619-20	NCB21EK-104X	C CAP.	0.1μF 25V K
	C1623-24	QETN1CM-227Z	E CAP.	220μF 16V M
	C1625	QETN1HM-474Z	E CAP.	0.47μF 50V M
	C1626	QETN1CM-227Z	E CAP.	220μF 16V M
	C1635	QETN1HM-474Z	E CAP.	0.47μF 50V M
	C1638-39	NCF21HZ-224X	C CAP.	0.22μF 50V Z
	C1653	NCF21HZ-224X	C CAP.	0.22μF 50V Z
	C1655	NCF21HZ-224X	C CAP.	0.22μF 50V Z
	C1656	QETM1HM-228	E CAP.	2200μF 50V M
	C1661-62	QETM1VM-228	E CAP.	2200μF 35V M
	C1668	NCB21EK-104X	C CAP.	0.1μF 25V K
	C1671	QENC1CM-226Z	BP E CAP.	22μF 16V M
	C1672	QETN1AM-107Z	E CAP.	100μF 10V M
	C1673	NCB21HK-563X	CHIP CAP.	0.056μF 50V K
	C1674	NCB21HK-393X	C CAP.	0.039μF 50V K
	C1675-76	QETN1HM-106Z	E CAP.	10μF 50V M
	C1677	QETN1CM-107Z	E CAP.	100μF 16V M
	C1678	QENC1CM-226Z	BP E CAP.	22μF 16V M
	C1679	QETN1HM-105Z	E CAP.	1μF 50V M
	C1680	NCB21HK-273X	C CAP.	0.027μF 50V K
	C1681	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1682	QENC1CM-226Z	BP E CAP.	22μF 16V M
	C1683	QETN1HM-226Z	E CAP.	22μF 50V M
	C1684	QETN1CM-227Z	E CAP.	220μF 16V M
	C1685-86	NCB21HK-272X	C CAP.	2700pF 50V K
	C1687	NCF21CZ-105X	C CAP.	1μF 16V Z
	C1688-89	NCB21EK-104X	C CAP.	0.1μF 25V K
	C1690	NCF21CZ-105X	C CAP.	1μF 16V Z
	C1691-94	NCB21EK-104X	C CAP.	0.1μF 25V K
	C1696	QETN1HM-106Z	E CAP.	10μF 50V M
	C1703	QETN1EM-476Z	E CAP.	47μF 25V M
	C1704	NCB21EK-104X	C CAP.	0.1μF 25V K
	C1705	QETN1AM-107Z	E CAP.	100μF 10V M
	C1706	NCB21EK-104X	C CAP.	0.1μF 25V K
	C1707	QETN1HM-474Z	E CAP.	0.47μF 50V M
	C1708	QETN1EM-476Z	E CAP.	47μF 25V M
	C1709-10	NDC21HJ-9R0X	C CAP.	9.0pF 50V J
	C1711	NCB21EK-104X	C CAP.	0.1μF 25V K
	C1712	NDC21HJ-151X	C CAP.	150pF 50V J
	C1713	QETN1HM-105Z	E CAP.	1μF 50V M
	C1714	NDC21HJ-561X	C CAP.	560pF 50V J
	C1715	QETN1HM-105Z	E CAP.	1μF 50V M
	C1717	QETN1HM-105Z	E CAP.	1μF 50V M
	C1718	NCB21HK-333X	C CAP.	0.033μF 50V K
	C1719	NCB21EK-104X	C CAP.	0.1μF 25V K
	C1724	QETN1HM-106Z	E CAP.	10μF 50V M
	C1725	NCB21HK-102X	C CAP.	1000pF 50V K

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L1001	QQL244K-5R6Z	PEAKING COIL	5.6μH
	L1002	QQL244K-270Z	PEAKING COIL	27μH
	L1201	QQL244K-330Z	PEAKING COIL	33μH
	L1301-02	QQL244K-4R7Z	PEAKING COIL	4.7μH
	L1303-04	QQL244K-470Z	PEAKING COIL	47μH
	L1305	QQL244K-4R7Z	PEAKING COIL	4.7μH
	L1307	CE41433-001Z	BEADS CORE	
	L1501	QQL244J-151Z	PEAKING COIL	150μH
	L1701	QQL244K-4R7Z	PEAKING COIL	4.7μH
	L1702	QQL244K-3R9Z	PEAKING COIL	3.9μH

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D1301	MA3051/M/-X	ZENER DIODE	
	D1302	MA111-X	SI.DIODE	
	D1351-53	MA111-X	SI.DIODE	
	D1402	MA111-X	SI.DIODE	
	D1503	RB100A-T2	SI.DIODE	
	D1601	MA3062-X	ZENER DIODE	
	D1602	MA111-X	SI.DIODE	
	D1608	MA111-X	SI.DIODE	
	D1612	MA111-X	SI.DIODE	
	D1617-18	MA3330/L/-X	ZENER DIODE	
	D1624-25	MA111-X	SI.DIODE	
	D1626	MA3024-X	ZENER DIODE	
	D1627	MA111-X	SI.DIODE	
	D1704	MA111-X	SI.DIODE	
	D1706	MA111-X	SI.DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q1201	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1251-52	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1253-54	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1255-56	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1301-03	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1306-07	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1309	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1310	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1341	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1351-54	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1355	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1501-03	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1604	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1609	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1610	DTC323TK-X	DIGI.TRANSISTOR	
	Q1612	DTC323TK-X	DIGI.TRANSISTOR	
	Q1617-19	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1706	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1707	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1708	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1709-10	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1711	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1712	2SC2412K/QR/-X	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC1201	TA1226N	I C	
	IC1251	CXA2039M-X	I C	
	IC1301	TB1227CN	I.C.(DIGI-OTHER)	
	IC1501	AN5441SA-W	I.C.(MONO-ANA)	
	IC1502	BA05T	I.C(MONO-ANA)	
	IC1551	LA6515	I.C.(MONO-ANA)	
	IC1601	AN5275	I.C.(MONO-ANA)	
	IC1605	BA4558F-X	I.C.(MONO-ANA)	
	IC1606	AN7395S-W	I C	
	IC1607	TDA7315D	I.C.(DIGI-OTHER)	
	IC1701	M37280MF-170SP	I.C.	
	IC1702	AT24C16-29RSB	I.C.	(SERVICE)
	IC1703	L78LR05E-MA	I.C.(MONO-ANA)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
⚠	CP1601	ICP-N50-Y	I.C.PROTECT	
	DL1341	CE40986-A01	DELAY LINE	
	K1001-02	CE41433-001Z	BEADS CORE	
	K1005	CE41433-001Z	BEADS CORE	
	LC1301	CE42142-222Z	EMI FILTER	
	TU1001	QAU0197-002	TUNER	
	X1301	QAX0305-001Z	CRYSTAL	
	X1701	CST8.00MTW	CER.RESONATOR	

POWER & DEF PW BOARD ASS'Y (SJK-2021A-H2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description		
	R2401	QRA14CF-1202Y	MF R	12kΩ	1/4W	F
	R2402	QRA14CF-1002Y	MF R	10kΩ	1/4W	F
	R2403	QRE141J-332Y	C R	3.3kΩ	1/4W	J
	R2404	QRE141J-821Y	C R	820Ω	1/4W	J
	R2405	QRA14CF-8200Y	MF R	820Ω	1/4W	F
	R2406	QRE141J-472Y	C R	4.7kΩ	1/4W	J
	R2408	QRE141J-222Y	C R	2.2kΩ	1/4W	J
	R2409	QRE141J-103Y	C R	10kΩ	1/4W	J
	R2410	QRE141J-102Y	C R	1kΩ	1/4W	J
	R2414	QRE121J-1R2Y	C R	1.2Ω	1/2W	J
	R2415	QRT01EJ-1R0X	MF R	1.0Ω	1W	J
	R2416	QRL01EJ-221X	OM R	220Ω	1W	J
	R2417	QRE121J-1R0Y	C R	1.0Ω	1/2W	J
	R2418	QRE141J-154Y	C R	150kΩ	1/4W	J
	R2451	QRE121J-104Y	C R	100kΩ	1/2W	J
	R2452	QRE121J-124Y	C R	120kΩ	1/2W	J
	R2453	QRE121J-473Y	C R	47kΩ	1/2W	J
	R2454	QRE121J-153Y	C R	15kΩ	1/2W	J
	R2461	QRE141J-331Y	C R	330Ω	1/4W	J
	R2463-64	QRE121J-392Y	C R	3.9kΩ	1/2W	J
	R2465	QRE121J-472Y	C R	4.7kΩ	1/2W	J
	R2466	QRE121J-821Y	C R	820Ω	1/2W	J
	R2467	QRL03EJ-270X	OM R	27Ω	3W	J
	R2468	QRE141J-104Y	C R	100kΩ	1/4W	J
	R2469	QRE141J-682Y	C R	6.8kΩ	1/4W	J
	R2470	QRE141J-0R0Y	C R	0.0Ω	1/4W	J
	R2492	QRE141J-683Y	C R	68kΩ	1/4W	J
	R2493	QRE141J-224Y	C R	220kΩ	1/4W	J
⚠	R2494	QRZ9017-4R7	F R	4.7Ω	1/4W	J
	R2495	QRE141J-103Y	C R	10kΩ	1/4W	J
	R2496	QRE141J-183Y	C R	18kΩ	1/4W	J
	R2497	QRE141J-153Y	C R	15kΩ	1/4W	J
	R2502	QRE141J-222Y	C R	2.2kΩ	1/4W	J
	R2503	QRE121J-152Y	C R	1.5kΩ	1/2W	J
	R2504-05	QRL03EJ-182X	OM R	1.8kΩ	3W	J
	R2521	QRE121J-220Y	C R	22Ω	1/2W	J
	R2522	QRL03EJ-103X	OM R	10kΩ	3W	J
	R2523	QRE121J-471Y	C R	470Ω	1/2W	J
⚠	R2524	QRZ9017-4R7	F R	4.7Ω	1/4W	J
	R2525	QRE141J-222Y	C R	2.2kΩ	1/4W	J
	R2542	QRE121J-222Y	C R	2.2kΩ	1/2W	J
	R2544	QRE121J-104Y	C R	100kΩ	1/2W	J
	R2545	QRE141J-123Y	C R	12kΩ	1/4W	J
⚠	R2551	QRX029J-4R7	MF R	4.7 Ω	2W	J
⚠	R2552	QRX029J-4R7	MF R	4.7 Ω	2W	J
	R2553	QRF104K-2R2	UNF R	2.2Ω	10W	K
⚠	R2554	QRZ9022-R33	F R	0.33Ω	1W	K
⚠	R2555	QRZ9011-4R7	F R	4.7Ω	1/2W	J
	R2561	QRL02EJ-220X	OM R	22Ω	2W	J
	R2562	QRE121J-123Y	C R	12kΩ	1/2W	J
	R2563	QRZ0056-103Z	COMP.R	10kΩ	1/2W	K
	R2564-68	QRE121J-184Y	C R	180kΩ	1/2W	J
	R2569	QRE141J-823Y	C R	82kΩ	1/4W	J
	R2570	QRE141J-183Y	C R	18kΩ	1/4W	J
	R2571	QRE141J-821Y	C R	820Ω	1/4W	J
	R2572-73	QRE141J-183Y	C R	18kΩ	1/4W	J
	R2574	QRE141J-392Y	C R	3.9kΩ	1/4W	J
	R2575	QRE141J-152Y	C R	1.5kΩ	1/4W	J
	R2585	QRE141J-103Y	C R	10kΩ	1/4W	J
	R2586	QRE141J-682Y	C R	6.8kΩ	1/4W	J
	R2587-89	QRE141J-103Y	C R	10kΩ	1/4W	J
	R2590	QRE141J-152Y	C R	1.5kΩ	1/4W	J
	R2591	QRE121J-392Y	C R	3.9kΩ	1/2W	J
	R2592	QRA14CF-1201Y	MF R	1.2kΩ	1/4W	F
	R2593	QRE141J-183Y	C R	18kΩ	1/4W	J
	R2594	QRE141J-222Y	C R	2.2kΩ	1/4W	J
	R2597	QRE141J-273Y	C R	27kΩ	1/4W	J
⚠	R2901	QRZ0123-121	UNF R	120 Ω	7W	J
⚠	R2903	QRZ0186-1R8	UNF R	1.8Ω	15W	J
	R2904-05	QRE121J-274Y	C R	270kΩ	1/2W	J
	R2906	QRE141J-473Y	C R	47kΩ	1/4W	J
	R2908	QRE121J-684Y	C R	680kΩ	1/2W	J

⚠	Symbol No.	Part No.	Part Name	Description		
	R2909	QRG039J-683	OM R	68kΩ	3W	J
	R2910	QRE121J-681Y	C R	680Ω	1/2W	J
	R2911	QRM059J-R10	MP R	0.1Ω	5W	K
⚠	R2913	QRZ9017-4R7	F R	4.7Ω	1/4W	J
	R2914	QRE121J-152Y	C R	1.5kΩ	1/2W	J
	R2915	QRE141J-152Y	C R	1.5kΩ	1/4W	J
	R2916	QRE141J-103Y	C R	10kΩ	1/4W	J
	R2917	QRL02EJ-220X	OM R	22Ω	2W	J
	R2918	QRE121J-332Y	C R	3.3kΩ	1/2W	J
	R2919	QRE141J-224Y	C R	220kΩ	1/4W	J
	R2921	QRG01GJ-470	OM R	47Ω	1W	J
	R2935	QRE141J-473Y	C R	47kΩ	1/4W	J
	R2936	QRE141J-103Y	C R	10kΩ	1/4W	J
	R2952	QRE141J-182Y	C R	1.8kΩ	1/4W	J
	R2953	QRE141J-222Y	C R	2.2kΩ	1/4W	J
	R2954	QRE141J-562Y	C R	5.6kΩ	1/4W	J
	R2955	QRE141J-822Y	C R	8.2kΩ	1/4W	J
	R2956	QRE141J-562Y	C R	5.6kΩ	1/4W	J
	R2957	QRE141J-332Y	C R	3.3kΩ	1/4W	J
	R2958	QRE141J-103Y	C R	10kΩ	1/4W	J
	R2959	QRE141J-683Y	C R	68kΩ	1/4W	J
	R2960	QRE141J-562Y	C R	5.6kΩ	1/4W	J
	R2961	QRE141J-683Y	C R	68kΩ	1/4W	J
	R2962	QRE141J-394Y	C R	390kΩ	1/4W	J
	R2963	QRE141J-562Y	C R	5.6kΩ	1/4W	J
	R2964	QRE121J-102Y	C R	1kΩ	1/2W	J
	R2965	QRE141J-222Y	C R	2.2kΩ	1/4W	J
	R2966	QRE141J-683Y	C R	68kΩ	1/4W	J
	R2967	QRL03EJ-223X	OM R	22kΩ	3W	J
	R2968	QRE141J-391Y	C R	390Ω	1/4W	J
	R2969	QRE141J-182Y	C R	1.8kΩ	1/4W	J
	R2970	QRL01EJ-181X	OM R	180Ω	1W	J
	R2971	QRE141J-471Y	C R	470Ω	1/4W	J
	R2972	QRE141J-391Y	C R	390Ω	1/4W	J
	R2973	QRE141J-182Y	C R	1.8kΩ	1/4W	J
	R2974	QRE141J-683Y	C R	68kΩ	1/4W	J
	R2976	QRX029J-3R3	MF R	3.3Ω	2W	J
	R2978	QRE141J-822Y	C R	8.2kΩ	1/4W	J
	R2981	QRL03EJ-150X	OM R	15kΩ	3W	J
	R2982	QRE141J-682Y	C R	6.8kΩ	1/4W	J
	R2983	QRE141J-561Y	C R	560Ω	1/4W	J
⚠	R2991	QRZ0057-825	C R	8.2MΩ	1W	J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description		
	C2401	QEHR1VM-227Z	E CAP.	220µF	35V	M
	C2402	QETM1VM-108	E CAP.	1000µF	35V	M
	C2403	QFLC2AK-104Z	M CAP.	0.1µF	100V	K
	C2404	QETN1HM-105Z	E CAP.	1µF	50V	M
	C2405	QFV71HJ-184Z	MF CAP.	0.18µF	50V	J
	C2406	QCZ0337-180Z	C CAP.	18pF	2kV	J
	C2407	QFLC1HJ-102Z	M CAP.	1000pF	50V	J
	C2408	QETN1HM-106Z	E CAP.	10µF	50V	M
	C2410	QFV71HJ-334Z	MF CAP.	0.33µF	50V	J
	C2411	QFLC2AJ-563Z	M CAP.	0.056µF	100V	J
	C2412	QFV71HJ-334Z	MF CAP.	0.33µF	50V	J
	C2451	QFV71HJ-104Z	MF CAP.	0.1µF	50V	J
	C2461	QFZ0199-185	MPP CAP.	1.8µF	250V	J
	C2462	QETN1HM-106Z	E CAP.	10µF	50V	M
	C2463	QFLC1HJ-153Z	M CAP.	0.015µF	50V	J
	C2464	QFLC1HJ-333Z	M CAP.	0.033µF	50V	J
	C2465	QCZ0120-104Z	C CAP.	0.1µF	25V	Z
	C2466	QETN1HM-106Z	E CAP.	10µF	50V	M
	C2491	QETN1HM-105Z	E CAP.	1µF	50V	M
	C2492	QETN1HM-106Z	E CAP.	10µF	50V	M
	C2502	QCB32HK-681Z	C CAP.	680pF	500V	K
	C2503	QEHR2CM-105Z	E CAP.	1µF	160V	M
⚠	C2521	QFZ0200-402	MPP CAP.	4000pF	1.5kVH	±3%
⚠	C2522	QFZ0200-133	MPP CAP.	0.013µF	1.5kVH	±3%

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
⚠	C2523	QFP32GJ-223	PP CAP.	0.022µF 400V J
⚠	C2524	QFZ0199-154	MPP CAP.	0.15µF 250V J
⚠	C2526	QFZ0199-184	MPP CAP.	0.18µF 250V J
	C2527	QEHR2EM-475Z	E CAP.	4.7µF 250V M
⚠	C2529	QFZ0128-473	MPP CAP.	0.047µF 400V ±3%
	C2530	QCB32HK-561Z	C CAP.	560pF 500V K
	C2531	QFLC1HJ-103Z	M CAP.	0.01µF 50V J
	C2532	QCS32HJ-101Z	C CAP.	100pF 500V J
⚠	C2542	QFZ0199-184	MPP CAP.	0.18µF 250V J
	C2551	QETN2EM-106Z	E CAP.	10µF 250V M
	C2552	QCB32HK-561Z	C CAP.	560pF 500V K
	C2553	QEHR1EM-108Z	E CAP.	1000µF 25V M
	C2554	QCB32HK-561Z	C CAP.	560pF 500V K
	C2555	QEHR1EM-108Z	E CAP.	1000µF 25V M
	C2560	QETM2CM-227	E CAP.	220µF 160V M
	C2561	QFV71HJ-124Z	MF CAP.	0.12µF 50V J
⚠	C2562	ERZV10V621CS	VARISTOR	
	C2563-64	QCZ0122-471	C CAP.	470pF 2kV K
⚠	C2565	QFZ0122-682	MPP CAP.	6800pF1.8kVH ±3%
⚠	C2566	QFZ0200-113	MPP CAP.	0.011µF1.5kVH ±3%
	C2567	QETN1EM-476Z	E CAP.	47µF 25V M
	C2568	QFLC1HJ-563Z	M CAP.	0.056µF 50V J
	C2569	QETN1EM-476Z	E CAP.	47µF 25V M
	C2570	QETN1EM-476Z	E CAP.	47µF 25V M
	C2591	QETN1AM-107Z	E CAP.	100µF 10V M
	C2592	QETN1EM-476Z	E CAP.	47µF 25V M
	C2594	QETN1AM-227Z	E CAP.	220µF 10V M
⚠	C2902	QCZ9015-102Z	C CAP.	1000pFAC250V Z
⚠	C2903	QCZ9015-102Z	C CAP.	1000pFAC250V Z
⚠	C2905	QCZ9015-102Z	C CAP.	1000pFAC250V Z
⚠	C2906	QCZ9015-102Z	C CAP.	1000pFAC250V Z
⚠	C2907	QEZ0371-337	E CAP.	330µF 400V M
	C2908	QCB32HK-103	C CAP.	0.01µF 500V K
	C2911	QCZ0325-821	C CAP.	820pF 2000V K
	C2912	QCS31HJ-471Z	C CAP.	470pF 50V J
	C2913	QETN1HM-476Z	E CAP.	47µF 50V M
	C2916	QETN1HM-107Z	E CAP.	100µF 50V M
	C2917	QFV71HJ-104Z	MF CAP.	0.1µF 50V J
	C2918	QCB31HK-152Z	C CAP.	1500pF 50V K
	C2919	QFLC1HJ-223Z	M CAP.	0.022µF 50V J
⚠	C2920	QFZ9040-104	MF CAP.	0.1µFAC275V M
⚠	C2921	QFZ9040-473	MF CAP.	0.047µFAC275V M
	C2922	QCB32HK-103	C CAP.	0.01µF 500V K
	C2951	QCZ0115-561Z	C CAP.	560pF 2kV K
	C2952	QEZ0203-227	E CAP.	220µF 160V M
	C2954	QETN1EM-108Z	E CAP.	1000µF 25V M
	C2956	QETM1CM-228	E CAP.	2200µF 16V M
	C2961	QETM1HM-228	E CAP.	2200µF 50V M
	C2962	QFV71HJ-104Z	MF CAP.	0.1µF 50V J
	C2964	QFV71HJ-684Z	MF CAP.	0.68µF 50V J
	C2965	QFLC1HJ-103Z	M CAP.	0.01µF 50V J
	C2966	QFLC1HJ-473Z	M CAP.	0.047µF 50V J
	C2967	QFV71HJ-104Z	MF CAP.	0.1µF 50V J
	C2968	QCZ0120-104Z	C CAP.	0.1µF 25V Z
	C2969	QEHR1CM-477Z	E CAP.	470µF 16V M
	C2970	QEHR1CM-107Z	E CAP.	100µF 16V M
	C2971	QCZ0120-104Z	C CAP.	0.1µF 25V Z
	C2972	QETN1CM-227Z	E CAP.	220µF 16V M
	C2973	QETN1EM-476Z	E CAP.	47µF 25V M
	C2974	QCZ0120-104Z	C CAP.	0.1µF 25V Z
	C2975	QEHR1AM-227Z	E CAP.	220µF 10V M
	C2976	QETN1EM-476Z	E CAP.	47µF 25V M
	C2982	QCZ0115-471Z	C CAP.	470pF 2kV K
⚠	C2991	QCZ9079-102	C CAP.	1000pFAC250V M

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name
	T2501	CE42034-002	H.DRIVE TRANSF.
⚠	T2551	QQH0082-001	HVT
	T2561	QQR0898-001	DEF.TRANSF.
⚠	T2901	QQS0074-001	SW TRANSF.

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L2461	QQR1138-001	CHOKE COIL	
	L2521	QQLZ028-501	CHOKE COIL	
	L2522	CELL001-002	LINEARITY COIL	
	L2561	QQLZ028-272	CHOKE COIL	
	L2901-02	QQL402K-100	COIL	10µH
	L2951	QQLZ026-460	HEATER CHOKE	
	L2952-54	QQL26AM-5R6Z	CHOKE COIL	

DIODE

⚠	Symbol No.	Part No.	Part Name
	D2401	MTZJ75-T2	ZENER DIODE
	D2402	1N4003-T2	SI.DIODE
	D2403	1SS133-T2	SI.DIODE
	D2451	RGP10J-5025-T3	SI.DIODE
	D2491	RGP10J-5025-T3	SI.DIODE
	D2492	MTZJ22B-T2	ZENER DIODE
	D2493-95	1SS133-T2	SI.DIODE
	D2521	RH3G-F1	SI.DIODE
	D2522	RU30-F1	SI.DIODE
	D2523	RGP10J-5025-T3	SI.DIODE
	D2525	MTZJ9.1B-T2	ZENER DIODE
	D2551	RH1S-LFA1	SI.DIODE
	D2553-54	RU3AM-LFC4	SI.DIODE
	D2561-62	ES1F-LFG2	SI.DIODE
	D2592	MTZJ7.5B-T2	ZENER DIODE
	D2594	MTZJ7.5S-T2	ZENER DIODE
⚠	D2901	D3SB60	BRIDGE DIODE
	D2902	SARS01-T2	DIODE
	D2903	MTZJ6.8C-T2	ZENER DIODE
	D2904-05	RGP10J-5025-T3	SI.DIODE
	D2906	MTZJ8.2B-T2	ZENER DIODE
	D2907	MTZJ20B-T2	ZENER DIODE
	D2908-09	1SS133-T2	SI.DIODE
	D2911	MTZJ15B-T2	ZENER DIODE
	D2912	1SS133-T2	SI.DIODE
	D2913	MTZJ27B-T2	ZENER DIODE
	D2914	1SS133-T2	SI.DIODE
	D2951	RU4B-F1	SI.DIODE
	D2952	1SS133-T2	SI.DIODE
	D2953	RU30Y-F1	SI.DIODE
	D2954	RU30-F1	SI.DIODE
	D2956	FMX-G12S	SI.DIODE
	D2958	1SR35-400A-T2	SI.DIODE
	D2959	MTZJ9.1B-T2	ZENER DIODE
	D2960	MTZJ7.5S-T2	ZENER DIODE
	D2961-62	AG01Z-T2	SI.DIODE
	D2964	MTZJ33B-T2	ZENER DIODE
	D2965-68	1SS133-T2	SI.DIODE
	D2969	R4KL-F1	SI.DIODE
	D2970	AG01-T2	SI.DIODE
	D2972	1SS133-T2	SI.DIODE
	D2981-83	1SS133-T2	SI.DIODE

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q2401	DTC124ESA-T	DIGI.TRANSISTOR	
	Q2402	2SC1740S/QR/-T	SI.TRANSISTOR	
	Q2451	DTC124ESA-T	DIGI.TRANSISTOR	
	Q2461	2SD1408/OY/-LB	SI.TRANSISTOR	
	Q2462-63	2SA933AS/QR/-T	SI.TRANSISTOR	
	Q2464	2SC1740S/QR/-T	SI.TRANSISTOR	
	Q2501	BSN304-T	F.E.T.	
⚠	Q2521	2SD2559-LB	SI.TRANSISTOR	H.OUT
	Q2542	DTC124ESA-T	DIGI.TRANSISTOR	
	Q2544	2SK2459N-F54	F.E.T.	
	Q2561-62	2SC1740S/QR/-T	SI.TRANSISTOR	
	Q2563	2SC4686A	POW TRANSISTOR	
	Q2567-68	2SC1740S/QR/-T	SI.TRANSISTOR	
	Q2591	2SA1208/ST/Z1-T	SI.TRANSISTOR	
	Q2592	DTC124ESA-T	DIGI.TRANSISTOR	
	Q2593	2SC1740S/QR/-T	SI.TRANSISTOR	
	Q2901	2SC1740S/QR/-T	SI.TRANSISTOR	
	Q2932	2SC1740S/QR/-T	SI.TRANSISTOR	
	Q2951-58	2SC1740S/QR/-T	SI.TRANSISTOR	

⚠	Symbol No.	Part No.	Part Name	Description
	IC			
	IC2401	LA7845N	I.C.(MONO-ANA)	
⚠	IC2901	STR-F6456S/F7	I C	
	IC2951	SE135N	I.C.(HYBRID)	
	IC2952	PQ12RD21	I C	
	IC2953	BA09T	I.C.(MONO-ANA)	
	IC2954	PQ05RD21	I C	
	OTHERS			
⚠	CP2952	ICP-N38-Y	I.C.PROTECT	
	K2401	CE41433-001Z	BEADS CORE	
	K2901	CH41005-H-10C	F.BUS WIRE	
	K2902	QQR0679-001	FERRITE BEADS	
	K2951	QQR0872-001Y	FERRITE BEADS	
	K2953	CE41433-001Z	BEADS CORE	
⚠	LF2901	QQR1035-002	LINE FILTER	
⚠	PC2541	PC123F2	I.C.(PH.COUPLER)	
⚠	PC2901	PC123F2	I.C.(PH.COUPLER)	
⚠	RY2951	QSK0099-001	RELAY	
⚠	TH2901	QAD0119-9R0	P.THERMISTOR	

CRT SOCKET PW BOARD ASS'Y (SJK-3011A-H2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R3101-03	NRSA02J-101X	MG R	100Ω 1/10W J
	R3107-09	NRSA02J-182X	MG R	1.8kΩ 1/10W J
	R3110-12	NRSA02J-151X	MG R	150Ω 1/10W J
	R3113-15	NRSA02J-470X	MG R	47Ω 1/10W J
	R3116-21	QRL02EJ-153X	OM R	15kΩ 2W J
	R3125-27	QRZ0107-102Z	C R	1kΩ 1/2W K
	R3128	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R3130	QRL01EJ-121X	OM R	120Ω 1W J
	R3135	QRZ0107-474Z	C R	470kΩ 1/2W K
	R3136	QRE121J-474Y	C R	470kΩ 1/2W J
	R3137	QRZ0107-102Z	C R	1kΩ 1/2W K
	R3138	QRE121J-105Y	C R	1MΩ 1/2W J
	R3151	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R3152	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R3154	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R3303	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R3312	NRSA02J-153X	MG R	15kΩ 1/10W J
	R3313	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R3314	NRSA02J-680X	MG R	68Ω 1/10W J
	R3315	NRSA02J-221X	MG R	220Ω 1/10W J
	R3316	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R3317	NRSA02J-470X	MG R	47Ω 1/10W J
⚠	R3318	QRJ146J-100X	C R	10Ω 1/4W J
	R3319	NRSA02J-470X	MG R	47Ω 1/10W J
	R3320	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R3321	NRSA02J-390X	MG R	39Ω 1/10W J
	R3322	QRE121J-2R7Y	C R	2.7Ω 1/2W J
	R3323-24	QRE121J-563Y	C R	56kΩ 1/2W J
	R3325	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R3326	QRE121J-2R7Y	C R	2.7Ω 1/2W J
	R3327	NRSA02J-390X	MG R	39Ω 1/10W J
	R3328	NRSA02J-121X	MG R	120Ω 1/10W J

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R3329	QRL02EJ-391X	OM R	390Ω 2W J
	R3332	NRSA02J-683X	MG R	68kΩ 1/10W J
	R3333	NRSA02J-333X	MG R	33kΩ 1/10W J
	R3334	NRSA02J-683X	MG R	68kΩ 1/10W J
	R3335	NRSA02J-333X	MG R	33kΩ 1/10W J
	CAPACITOR			
	C3101-03	NDC21HJ-471X	C CAP.	470pF 50V J
	C3104	QETN1CM-107Z	E CAP.	100µF 16V M
	C3105	QETN1EM-476Z	E CAP.	47µF 25V M
	C3107	QETN1HM-335Z	E CAP.	3.3µF 50V M
	C3113	QCZ9078-103	C CAP.	0.01µFAC250V M
	C3114	QETM2EM-336	E CAP.	33µF 250V M
	C3115	QETM2EM-106	E CAP.	10µF 250V M
	C3116	NDC21HJ-471X	C CAP.	470pF 50V J
	C3117	QETM2EM-336	E CAP.	33µF 250V M
	C3304	NCB21HK-103X	C CAP.	0.01µF 50V K
	C3305	QETN1HM-335Z	E CAP.	3.3µF 50V M
	C3306	QETN1CM-107Z	E CAP.	100µF 16V M
	C3307	NDC21HJ-5R0X	C CAP.	5.0pF 50V J
	C3308	QETN2CM-106Z	E CAP.	10µF 160V M
	C3309	QCB32HK-472Z	C CAP.	4700pF 500V K
	C3310	QETN2CM-106Z	E CAP.	10µF 160V M
	C3311	NDC21HJ-821X	C CAP.	820pF 50V J
	C3312	QCB32HK-472Z	C CAP.	4700pF 500V K
	C3313	NDC21HJ-561X	C CAP.	560pF 50V J
	C3314	QETN1CM-107Z	E CAP.	100µF 16V M
	C3315	QCS32HJ-680Z	C CAP.	68pF 500V J
	C3316	QETN1CM-107Z	E CAP.	100µF 16V M
	C3317	QETN1AM-337Z	E CAP.	330µF 10V M
	C3318	NDC21HJ-561X	C CAP.	560pF 50V J
	DIODE			
	D3151	MA111-X	SI.DIODE	
	D3152	MA3047/H/-X	ZENER DIODE	
	D3153-55	MA111-X	SI.DIODE	
	D3156	MA3047/H/-X	ZENER DIODE	
	D3163	MA3150/M/-X	ZENER DIODE	
	D3164	1SR35-400A-T2	SI.DIODE	
	D3302-03	RH1S-T3	SI.DIODE	
	D3304-05	MA111-X	SI.DIODE	
	TRANSISTOR			
	Q3101-03	2SC1740S/QR/-T	SI.TRANSISTOR	
	Q3104-06	2SC4544-LB	SI.TRANSISTOR	
	Q3151	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q3152	2SC4682-T	SI.TRANSISTOR	
	Q3304-05	2SC1740S/QR/-T	SI.TRANSISTOR	
	Q3306	2SA933AS/QR/-T	SI.TRANSISTOR	
	Q3307	2SA1837	SI.TRANSISTOR	
	Q3308	2SC4793	SI.TRANSISTOR	
	Q3311	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q3312	2SC2412K/QR/-X	SI.TRANSISTOR	
	OTHERS			
⚠	FR3330	QRZ9021-561	F R	560Ω 1W J
	K3301-04	CE41492-001Z	CHOKE COIL	
⚠	SK3001	CE42670-001	C.R.T.SOCKET	

FRONT CONTROLPW BOARD ASS'Y (SJK-8005A-H2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R8502	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R8801-02	NRSA02J-561X	MG R	560Ω 1/10W J
	R8804-10	NRSA02J-471X	MG R	470Ω 1/10W J
	R8811-12	NRSA02J-221X	MG R	220Ω 1/10W J
	R8813-14	QRE121J-271Y	C R	270Ω 1/2W J
	R8815-16	NRSA02J-102X	MG R	1kΩ 1/10W J
	R8821	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R8822	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R8823	NRSA02J-103X	MG R	10kΩ 1/10W J
	R8824	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R8825	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R8826-27	NRSA02J-103X	MG R	10kΩ 1/10W J
	R8851	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R8861	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R8863	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R8864	NRSA02J-222X	MG R	2.2kΩ 1/10W J
⚠	R8901	QRZ0111-474	C R	470kΩ 1/2W K
	CAPACITOR			
	C8301-02	NCB21HK-472X	C CAP.	4700pF 50V K
	C8303	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C8801-02	NCB21HK-222X	C CAP.	2200pF 50V K
	C8805	QETN1HM-106Z	E CAP.	10μF 50V M
	C8851	NCB21EK-104X	C CAP.	0.1μF 25V K
	C8852	QETN1CM-107Z	E CAP.	100μF 16V M
	C8861	QETN1HM-106Z	E CAP.	10μF 50V M
⚠	C8901	QFZ9040-104	MF CAP.	0.1μFAC275V M
⚠	C8902	QFZ9040-474	MF CAP.	0.47μFAC275V M
⚠	C8991	QCZ9079-102	C CAP.	1000pFAC250V M
	COIL			
	L8301	QQL211K-270Y	PEAKING COIL	27μH
	L8302	QQR0716-001Z	LEAD CORE	
	L8303	QQL211K-270Y	PEAKING COIL	27μH
	L8801-02	QQL211K-5R6Y	PEAKING COIL	5.6μH
	L8803	QQR0716-001Z	LEAD CORE	
	DIODE			
	D8801	SPR-39MVWF	L.E.D.	
	D8802-08	SLR-342MG-T16	L.E.D.(GRN)	
	D8810	MA111-X	SI.DIODE	
	D8811-12	MA3068/M/-X	ZENER DIODE	
	D8851	MA3068/M/-X	ZENER DIODE	
	D8861	MA111-X	SI.DIODE	
	D8862	P1241-04	C.D.S.	
	TRANSISTOR			
	Q8801-02	DTA124EKA-X	DIGI.TRANSISTOR	
	Q8803	DTC124EKA-X	DIGI.TRANSISTOR	
	Q8861	2SA1037AK/QR/-X	SI.TRANSISTOR	
	IC			
	IC8801	JLC1562BF-X	I.C(DIGI-MOS)	
	IC8851	GP1U281Q	IFR DETECT UNIT	

⚠	Symbol No.	Part No.	Part Name	Description
	OTHERS			
		LC20589-001C-H	LED HOLDER	
		CEMG002-001Z	FUSE CLIP	
⚠	F8901	QMF51E2-4R0J4	FUSE	4.0A
	J8301	QNZ0453-001	JACK	
	J8801	QNS0155-001	JACK	
⚠	LF8901	QQR1035-003	LINE FILTER	
	S8801	QSW0619-003Z	PUSH SWITCH	MENU
	S8802	QSW0619-003Z	PUSH SWITCH	CH DOWN
	S8803	QSW0619-003Z	PUSH SWITCH	CH UP
	S8804	QSW0619-003Z	PUSH SWITCH	TV/VIDEO
	S8805	QSW0619-003Z	PUSH SWITCH	VOL DOWN
	S8806	QSW0619-003Z	PUSH SWITCH	VOL UP
⚠	S8901	QSW0824-001	PUSH SWITCH	MAIN POWER
⚠	VA8901	ERZV10V621CS	VARISTOR	

AV SEL. PW BOARD ASS'Y (SJK0S002A-H2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R0101-08	NRSA02J-750X	MG R	75Ω 1/10W J
	R0110	NRSA02J-823X	MG R	82kΩ 1/10W J
	R0112	NRSA02J-823X	MG R	82kΩ 1/10W J
	R0113	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0114-15	NRSA02J-391X	MG R	390Ω 1/10W J
	R0116	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0117-18	NRSA02J-750X	MG R	75Ω 1/10W J
	R0119-20	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0121-22	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0123	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0124	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0125	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0126	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0127	NRSA02J-750X	MG R	75Ω 1/10W J
	R0128	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0129	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0130	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0131	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0132-43	NRSA02J-101X	MG R	100Ω 1/10W J
	R0146-51	NRSA02J-101X	MG R	100Ω 1/10W J
	R0152	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0153	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0154	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0155	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0156	NRSA02J-101X	MG R	100Ω 1/10W J
	R0157-58	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0159-60	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0162	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0164-65	NRSA02J-221X	MG R	220Ω 1/10W J
	R0166	NRSA02J-101X	MG R	100Ω 1/10W J
	R0167	QRK126J-121X	C R	120Ω 1/2W J
	R0168	NRSA02J-151X	MG R	150Ω 1/10W J
	R0169	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R0170	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0171	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0301	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0306	NRSA02J-101X	MG R	100Ω 1/10W J
	R0307	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0308	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0311-12	NRSA02J-102X	MG R	1kΩ 1/10W J

⚠	Symbol No.	Part No.	Part Name	Description
RESISTOR				
	R0326	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0327	NRSA02J-681X	MG R	680Ω 1/10W J
	R0328	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0329	NRSA02J-391X	MG R	390Ω 1/10W J
	R0330	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0331	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0332	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0333	NRSA02J-821X	MG R	820Ω 1/10W J
	R0334-35	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0336	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R0337	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0338	NRSA02J-153X	MG R	15kΩ 1/10W J
	R0339-40	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0341	NRSA02J-821X	MG R	820Ω 1/10W J
	R0342-44	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0345	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0346	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0347	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R0348	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0349	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0350	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0351	NRSA02J-681X	MG R	680Ω 1/10W J
	R0352	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0353	NRSA02J-681X	MG R	680Ω 1/10W J
	R0354	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0355	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0356	NRSA02J-221X	MG R	220Ω 1/10W J
	R0357	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0358	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0359	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0360	NRSA02J-561X	MG R	560Ω 1/10W J
	R0361	NRSA02J-391X	MG R	390Ω 1/10W J
	R0362	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0363	NRSA02J-681X	MG R	680Ω 1/10W J
	R0364	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0365	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0366-68	NRSA02J-391X	MG R	390Ω 1/10W J
	R0369	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0370-71	NRSA02J-821X	MG R	820Ω 1/10W J
	R0601	NRSA02J-225X	MG R	2.2MΩ 1/10W J
	R0602	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0605	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0611	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0614	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0615	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0617	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0619-20	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0622	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0623	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0625	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0653	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0654	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0655	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0656	NRSA02J-822X	MG R	8.2kΩ 1/10W J
CAPACITOR				
	C0101-02	NCB21HK-472X	C CAP.	4700pF 50V K
	C0103-06	NCB21HK-152X	C CAP.	1500pF 50V K
	C0107	QETN1AM-108Z	E CAP.	1000μF 10V M
	C0108-10	QETN1HM-106Z	E CAP.	10μF 50V M
	C0111	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0112-14	QETN1HM-105Z	E CAP.	1μF 50V M
	C0115-16	QETN1HM-106Z	E CAP.	10μF 50V M
	C0117-18	QETN1HM-105Z	E CAP.	1μF 50V M
	C0119	QETN1HM-106Z	E CAP.	10μF 50V M
	C0120	QETN1HM-105Z	E CAP.	1μF 50V M
	C0121	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0122	QETN1HM-106Z	E CAP.	10μF 50V M
	C0123	QETN1HM-105Z	E CAP.	1μF 50V M
	C0124	QETN1HM-106Z	E CAP.	10μF 50V M
	C0125	QETN1HM-105Z	E CAP.	1μF 50V M
	C0126	NCB21HK-103X	C CAP.	0.01μF 50V K

⚠	Symbol No.	Part No.	Part Name	Description
CAPACITOR				
	C0128	QETN1HM-106Z	E CAP.	10μF 50V M
	C0129-30	QENC1EM-106Z	BP E CAP.	10μF 25V M
	C0132	NDC21HJ-560X	C CAP.	56pF 50V J
	C0133	QENC1EM-106Z	BP E CAP.	10μF 25V M
	C0134	QETN1CM-107Z	E CAP.	100μF 16V M
	C0135	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0136-37	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0138	QETN1CM-107Z	E CAP.	100μF 16V M
	C0139-40	NCB21HK-152X	C CAP.	1500pF 50V K
	C0301	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0302-03	QENC1EM-106Z	BP E CAP.	10μF 25V M
	C0304	QETN1HM-106Z	E CAP.	10μF 50V M
	C0305	QENC1EM-106Z	BP E CAP.	10μF 25V M
	C0309	QETN1HM-106Z	E CAP.	10μF 50V M
	C0314	QETN1CM-107Z	E CAP.	100μF 16V M
	C0315	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0316	QETN1HM-106Z	E CAP.	10μF 50V M
	C0318	QENC1EM-106Z	BP E CAP.	10μF 25V M
	C0320	QENC1EM-106Z	BP E CAP.	10μF 25V M
	C0322	QETN1CM-107Z	E CAP.	100μF 16V M
	C0323	QENC1EM-106Z	BP E CAP.	10μF 25V M
	C0324	NCB21EK-104X	C CAP.	0.1μF 25V K
	C0325-26	QETN1EM-476Z	E CAP.	47μF 25V M
	C0329-30	QETN1CM-107Z	E CAP.	100μF 16V M
	C0331-36	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0337	QETN1EM-476Z	E CAP.	47μF 25V M
	C0338-40	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0341	NDC21HJ-181X	C CAP.	180pF 50V J
	C0342-43	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0344	NDC21HJ-121X	C CAP.	120pF 50V J
	C0345	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0346	QETN1EM-476Z	E CAP.	47μF 25V M
	C0348	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0349	QETN1EM-476Z	E CAP.	47μF 25V M
	C0350	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0352	NDC21HJ-560X	C CAP.	56pF 50V J
	C0353	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0354	NDC21HJ-221X	C CAP.	220pF 50V J
	C0355	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0356	QETN1EM-476Z	E CAP.	47μF 25V M
	C0357	QETN1AM-227Z	E CAP.	220μF 10V M
	C0358	QETN1EM-476Z	E CAP.	47μF 25V M
	C0359	NDC21HJ-221X	C CAP.	220pF 50V J
	C0360	NDC21HJ-121X	C CAP.	120pF 50V J
	C0362	QETN1AM-477Z	E CAP.	470μF 10V M
	C0363	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0364-65	QETN1EM-476Z	E CAP.	47μF 25V M
	C0371-72	QETN1EM-476Z	E CAP.	47μF 25V M
	C0374	QETN1CM-107Z	E CAP.	100μF 16V M
	C0601	QENC1HM-475Z	BP E CAP.	4.7μF 50V M
	C0602	QETN1HM-475Z	E CAP.	4.7μF 50V M
	C0604	QETN1CM-107Z	E CAP.	100μF 16V M
	C0605	QETN1HM-106Z	E CAP.	10μF 50V M
	C0607	QETN1HM-106Z	E CAP.	10μF 50V M
	C0608	QENC1HM-475Z	BP E CAP.	4.7μF 50V M
	C0609	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0613	QETN1HM-106Z	E CAP.	10μF 50V M
	C0625	NCB21HK-332X	C CAP.	3300pF 50V K
	C0626	NCB21HK-333X	C CAP.	0.033μF 50V K
	C0628	QETN1HM-106Z	E CAP.	10μF 50V M
	C0637	NCB21HK-332X	C CAP.	3300pF 50V K
	C0638	NCB21HK-333X	C CAP.	0.033μF 50V K
	C0639	QETN1HM-106Z	E CAP.	10μF 50V M
	C0640	QETN1EM-476Z	E CAP.	47μF 25V M
	C0641	NCB21EK-104X	C CAP.	0.1μF 25V K

⚠	Symbol No.	Part No.	Part Name	Description
TRANSFORMER				
	T0301-03	CE42697-001	LOWPASS FILTER	
COIL				
	L0101-04	QQL211K-5R6Y	PEAKING COIL	5.6µH
	L0107-10	QQL211K-5R6Y	PEAKING COIL	5.6µH
	L0111	QQL244K-680Z	PEAKING COIL	68µH
	L0302-04	QQL244K-220Z	PEAKING COIL	22µH
	L0306	QQL244K-330Z	PEAKING COIL	33µH
DIODE				
	D0101-07	MA3120/M/-X	ZENER DIODE	
	D0108-09	MTZJ9.1B-T2	ZENER DIODE	
	D0111	MTZJ12C-T2	ZENER DIODE	
TRANSISTOR				
	Q0101-02	DTC323TK-X	DIGI.TRANSISTOR	
	Q0103	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q0106	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q0108	2SC1740S/QR/-T	SI.TRANSISTOR	
	Q0109	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q0303	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q0309-15	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q0316-17	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q0318-21	2SC2412K/QR/-X	SI.TRANSISTOR	
IC				
	IC0101	CXA2089Q	I C	
	IC0301	TC9090AN	I.C.(DIGI-MOS)	
	IC0303-04	LA7222	I.C.(MONO-ANA)	
	IC0371	BA17805T	I.C(MONO-ANA)	
	IC0372	MC33269D-3.3X	I.C.(MONO-ANA)	
	IC0601	AN5285K	I.C.(MONO-ANA)	
	IC0602	NJM2150AM-X	I.C.(MONO-ANA)	

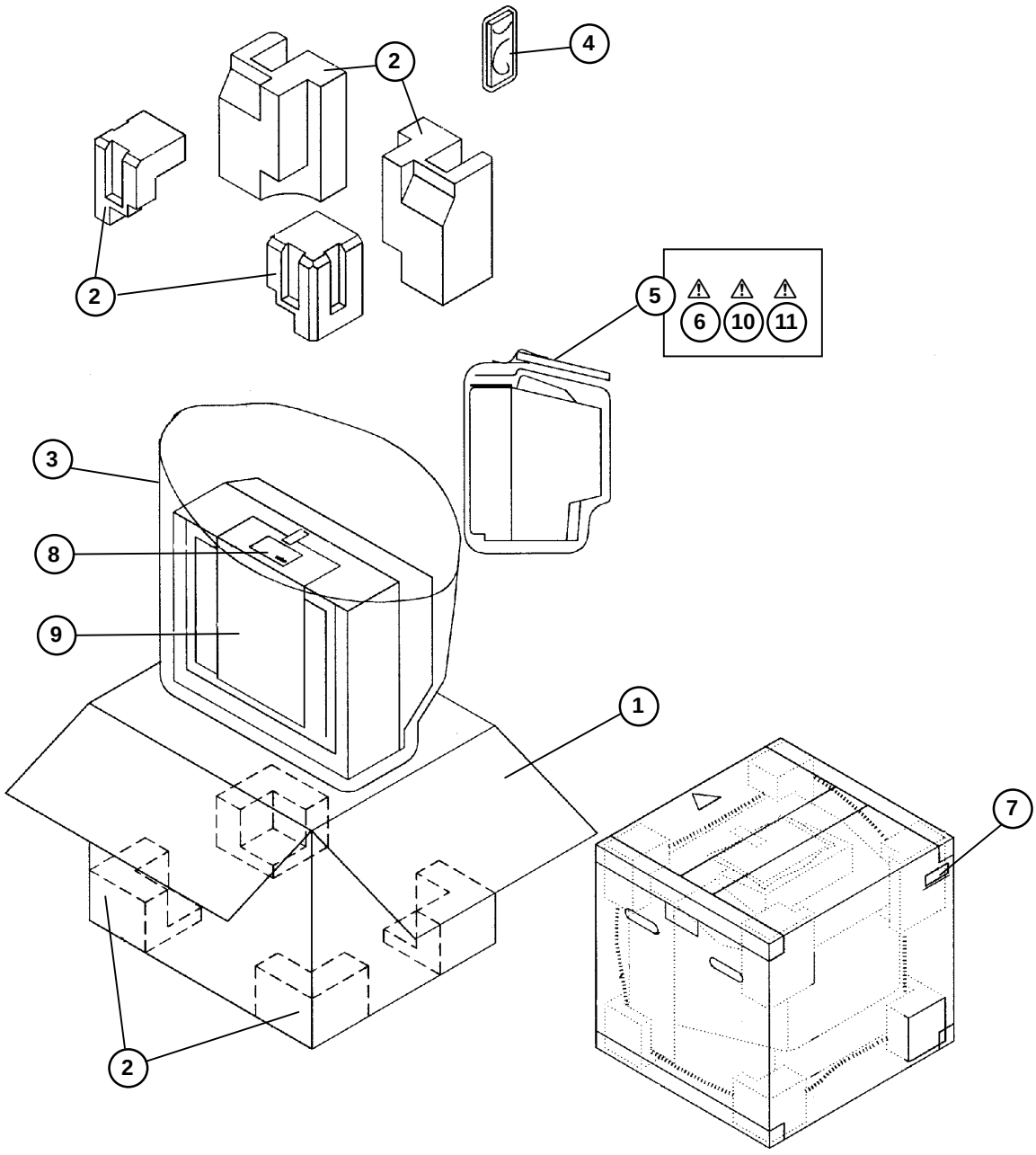
⚠	Symbol No.	Part No.	Part Name	Description
OTHERS				
		CM36337-A01-H	SHIELD COVER	
⚠	CP0901	ICP-N5-Y	I.C.PROTECT	
	J0001	QNZ0454-001	PIN JACK	
	J0002	QNN0349-001	PIN JACK	
	J0003	QNN0349-002	PIN JACK	
	J0004	QNN0348-001	PIN JACK	
	J0005	QNN0349-001	PIN JACK	
	J0006	QNS0001-001	JACK	
	MD0008	----------	3D Y/C MODULE	

3D Y/C MODULE PW BOARD ASS'Y (SCD0Y021A-H2)

This PW Board Ass'y is included in the above AV SEL. PW Board Ass'y.

⚠	Symbol No.	Part No.	Part Name	Description
OTHERS				
	MD0008	SCD0Y021A-H2	3D Y/C MODULE PWB	

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description
	1	LC10845-005A-H	PACKING CASE	
	2	LC10769-002A-H	CUSHION ASSY	8pcs in 1set
	3	CP30967-004-H	POLY BAG	
	4	RM-C111-2H	REMOCON UNIT	
	5	CP30966-001-H	POLY BAG	
⚠	6	LCT0864-001A-H	INST.BOOK	
	7	CM47385-00B-H	POS/SERIAL LABEL	
	8	LC30947-002A-H	CAUTION SHEET	
	9	LC30946-001A-H	CRT PROTECTOR	
⚠	10	LCT0661-001A-H	DIGEST MANUAL	
⚠	11	LCT0662-001A-H	DIGEST MANUAL	

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