

JVC

SERVICE MANUAL

COLOUR TELEVISION

BASIC CHASSIS

CH

AV-29LS2 AV-29LX2 /A
AV-29LX2 AV-2968TEE



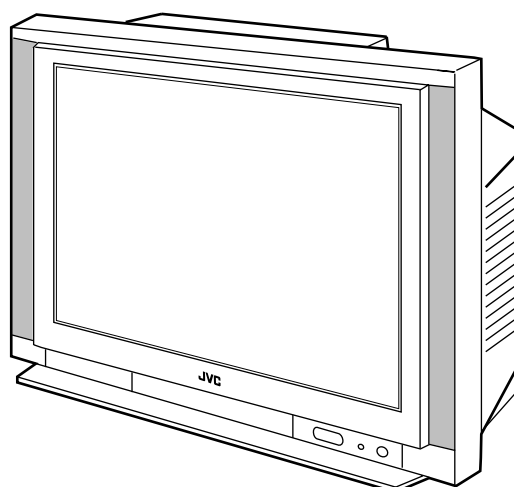
RM-C1020-1H
[AV-29LS2]



RM-C1024-1H
[AV-29LX2]
[AV-29LX2/A]



RM-C1023-1H
[AV-2968TEE]



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SPECIFICATIONS

Items		Contents			
		AV-29LS2	AV-29LX2	AV-29LX2/A	AV-2968TEE
Dimensions (W × H × D)		73.2cm × 58.8cm × 51.8cm			
Mass		47kg			
TV RF System		B, G, I, D, K, K1, M			
Colour System	TV Mode	PAL / SECAM / NTSC3.58 / NTSC4.43			
	VIDEO Mode	PAL / SECAM / NTSC3.58 / NTSC4.43			
Stereo system		A2 / NICAM (B/G, I, D/K) system	Playback only		
Teletext system FLOF(Fastext), WST(World Standard Text)		○	—		○
Receiving Frequency	VHF (VL)	46.25MHz – 140.25MHz (AS0 – S6)			
	VHF (VH)	147.25MHz – 423.25MHz (S7 – S36)			
	UHF	431.25MHz – 863.25MHz (S37 – CHINA 57)			
	CATV	● Cable TVs of Mid (X-Z, S1-S10) Super (S11-S20) & Hyper (S21-S41) bands receivable			
Intermediate Frequency	VIF Carrier	38.0MHz			
	SIF Carrier	31.5MHz (6.5MHz) 32.0MHz (6.0MHz) 32.5MHz (5.5MHz) 33.5MHz (4.5MHz)			
Colour Sub Carrier Frequency		PAL (4.43MHz), SECAM (4.40625MHz / 4.25MHz) NTSC (3.58MHz / 4.43MHz)			
Aerial Input Terminal		75Ω Unbalanced			
Power Input		AC110 – 240V, 50 / 60Hz			
Power Consumption		175W (Max.) / 116W (Avg.)			
Picture Tube		Visible size : 68cm measured diagonally			
High Voltage		32.0kV +1/ – 1.5kV (at cut-off in service mode)			
Speaker		5 × 12cm Oval type ×2			
Audio Output		7W + 7W			
Video / Audio Input (1 / 2 / 3)		Video(1,3) : 1Vp-p, 75Ω (RCA pin jack) Audio(1,2,3) : 500mVrms (-4dBs), High Impedance (RCA pin jack) Component Input (Input 2) Y : 1Vp-p positive (negative sync provided, when terminated with 75Ω) Cb/CR : 0.7Vp-p 75Ω			
Video/Audio Output		1Vp-p, 75Ω (RCA pin jack) 500mVrms(-4dBs) Low impedance (400Hz when modulated 100%) (RCA pin jack)			
Headphone Jack		Stereo mini jack (3.5φ)			
Remote Control Unit		RM-C1020-1H	RM-C1024-1H		RM-C1023-1H
		(Battery size: AA/R06/UM-3 × 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 (Δ) 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 the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). 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

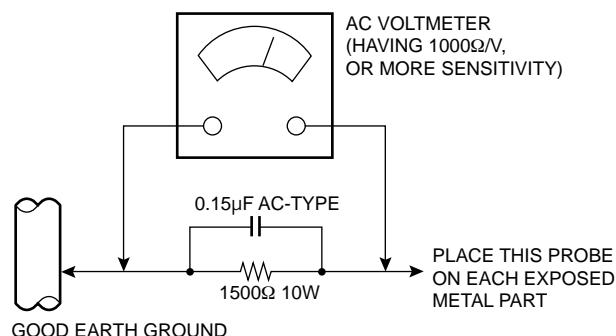
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known 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

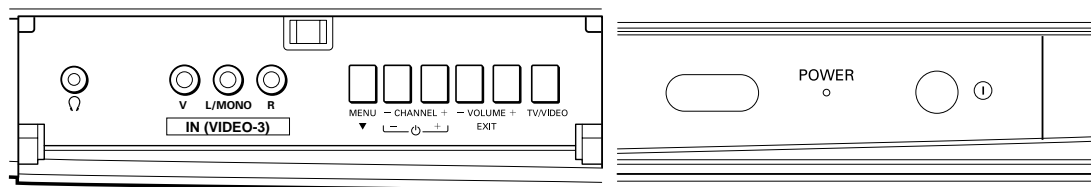
- New chassis design enables use of an interactive on-screen control.
- Pure flat CRT produces fine textured picture in every detail.
- Wide range voltage (110V ~ 240V) for AC power input.
- With AUDIO/VIDEO/COMPONENT input terminals.
- I² C bus control utilizes single chip ICs.
- By means of AUTO PROGRAM, the TV stations can be selected automatically and the TV channels can also be rearranged automatically.
- Built-in DIGITAL ECO MODE (ECONOMY, ECOLOGY).
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.
- Built-in OFF TIMER & RETURN +.

MAIN DIFFERENCE LIST

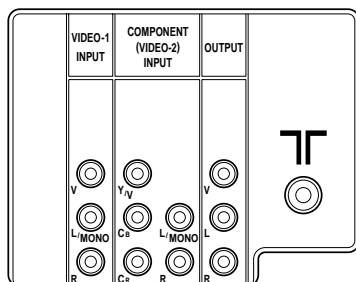
	MODEL No.	AV-29LS2	AV-29LX2	AV-29LX2/A	AV-2968TEE
	Part Name				
	MAIN PWB	SCH-1108A-H2	SCH-1095A-H2	←	SCH-1104A-H2
	FRONT CABINET ASS'Y	LC11193-020A-H	LC11193-018A-H	←	LC11193-021A-H
	REMOTE CONTROL UNIT	RM-C1020-1H	RM-C1024-1H	←	RM-C1023-1H

FUNCTIONS

■ FRONT PANEL

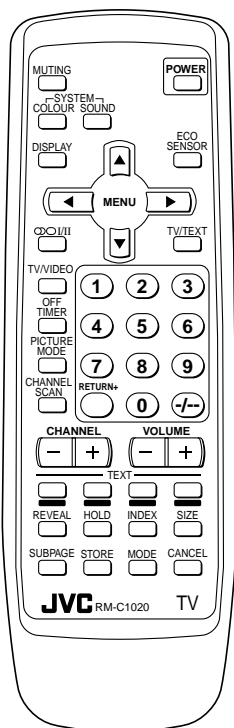


■ REAR PANEL

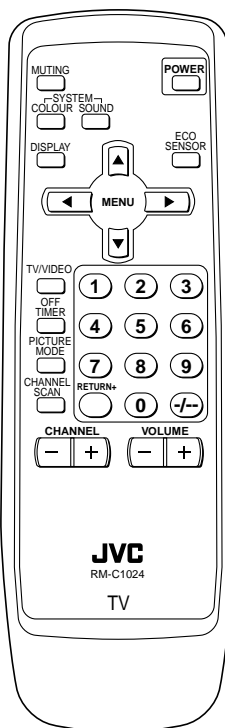


■ REMOTE CONTROL UNIT

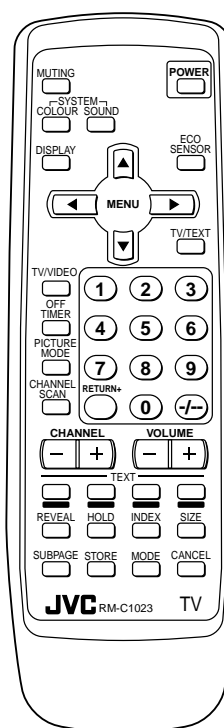
RM-C1020-1H
[AV-29LS2]



RM-C1024-1H
[AV-29LX2]
[AV-29LX2/A]



RM-C1023-1H
[AV-2968TEE]



SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Unplug the power supply cord.
2. Remove the 16 screws marked (A) as shown in Fig.1.
3. Withdraw the Rear cover toward you.

[CAUTION]

- When reinstalling the rear cover, carefully push it inward after inserting the Main PWB into the rear cover groove.

REMOVING THE CHASSIS (CHASSIS BASE AND CONTROL BASE)

- After removing the rear cover.
 1. Slightly raise the both sides of the chassis by hand and remove the 2 claws marked (B) under the chassis from the front cabinet as shown in Fig.1.
 2. Withdraw the chassis backward.
(If necessary, take off the wire clamp, connector's etc.)
- *When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT SOCKET PWB and the Main PWB.

REMOVING THE AV TERMINAL BOARD

- After removing the rear cover.
 1. Remove the 4 screws marked (C) as shown in Fig.1.
 2. When you pull out the AV Terminal board in the direction of arrow marked (D) as shown in Fig.1, it can be removed.

REMOVING THE CONTROL BASE

- After removing the rear cover and the chassis.
 1. While pushing down the 2 claws marked (E) as shown in Fig. 2 and pull out the Control base in the direction of arrow marked (F) as shown in Fig. 2, the control base can be removed.
(If necessary, take off the wire, connector's etc.)

REMOVING THE SPEAKER

- After removing the rear cover.
 1. Remove the 4 screws marked (G) and 2 screws marked (H) as shown in Fig.1.
 2. Withdraw the speaker backward.
 3. Follow the same steps when removing the other hand speaker.

CHECKING THE MAIN PW BOARD

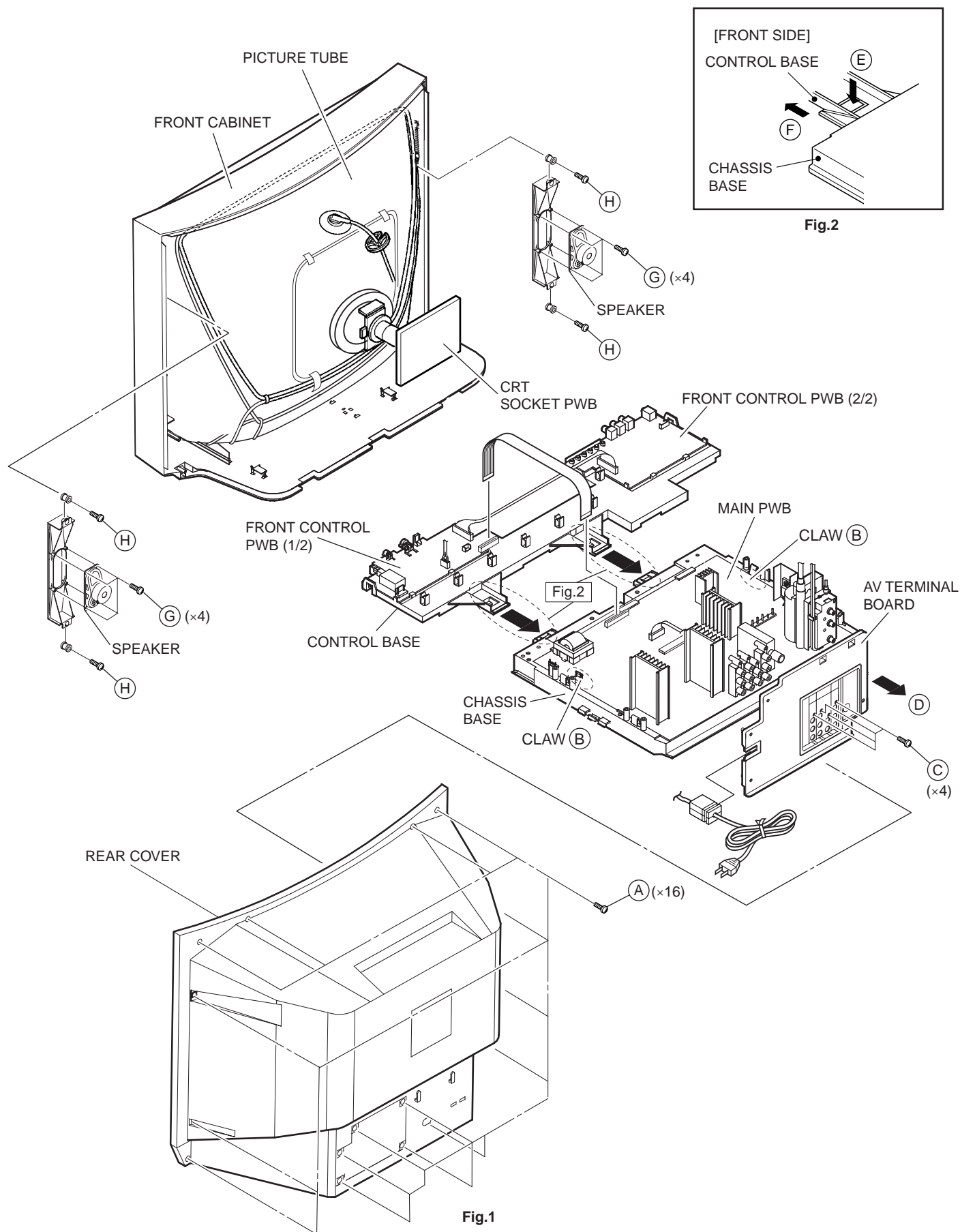
1. To check the back side of the Main PWB.
 - 1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
 - 2) Erect the chassis vertically so that you can easily check the back side of the Main PWB.

[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 CRT earth wire and other connectors are properly connected.
- When repairing, connect the Deg. coil to the DEG. connector on the Main PWB.

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.



REMOVING THE CRT

* Replacement of the CRT should be performed by 2 or more persons.

- After removing the rear 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. 4.
 - 3. Remove 4 screws marked by arrows with a box type screwdriver 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 dismantling steps.
- * The CRT change table should preferably be smaller than the CRT surface, and its height be about 35cm.

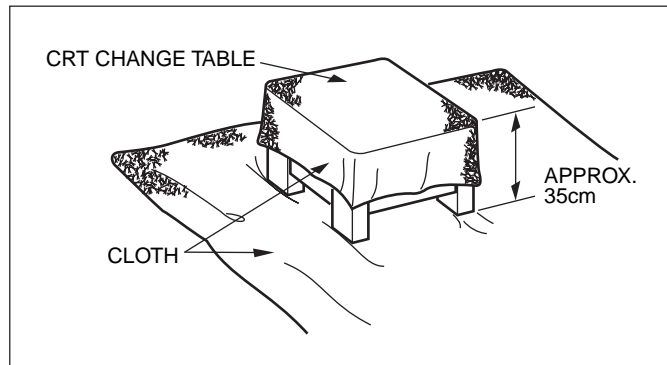


Fig. 3

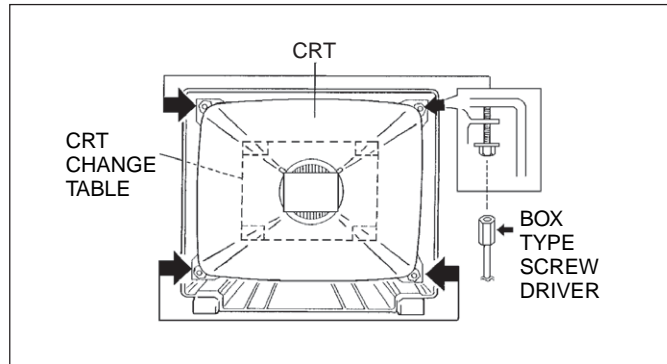


Fig. 4

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 dismantling them, be sure to coat silicon grease for electrical insulation as shown in Fig. 6.
- 1. Wipe around the anode button with clean and dry cloth. (Fig. 6)
- 2. Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases does not sticks to the anode button. (Fig. 7)

★ Silicon grease product No. KS - 650N

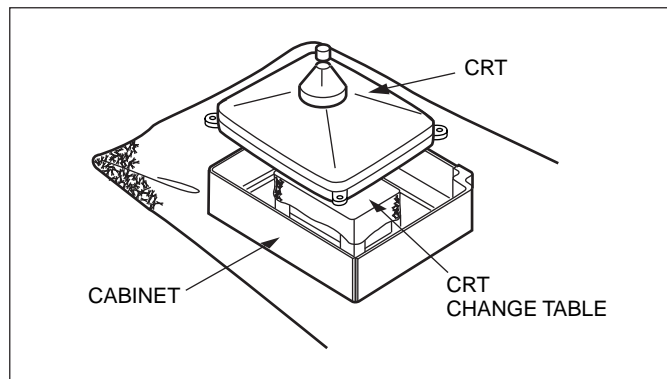


Fig. 5

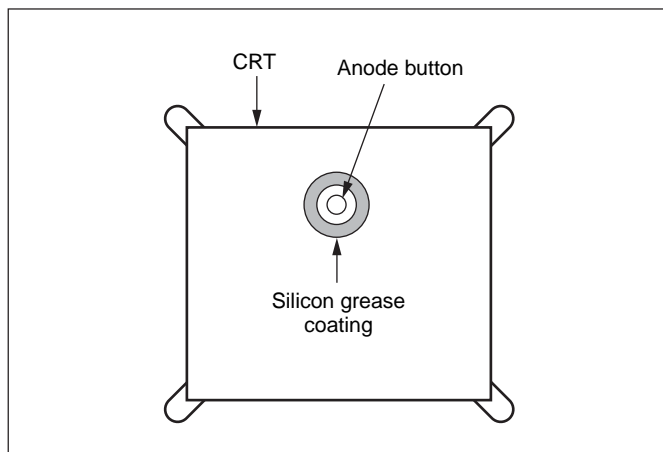


Fig. 6

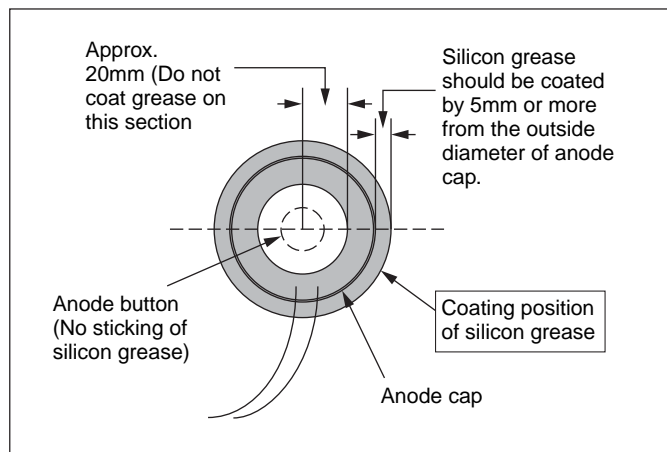


Fig. 7

REPLACEMENT OF MEMORY IC

1. MEMORY IC

This TV uses the following memory IC.

Memory IC: IC1702 on MAIN PW Board

The memory IC memorizes data for correctly operating the video and deflection circuits. When replacing the memory IC, be sure to use the same type IC written with the initial values of data. In other words, use the specific IC listed in "PRINTED WIRING BOARD PARTS LIST". For its mounting location, refer to "ADJUSTMENT LOCATIONS".

2. PROCEDURE FOR REPLACING MEMORY IC

(1) Power off

Switch the power off and unplug the power cord from the wall outlet.

(2) Replacing the memory IC

Replace the memory IC with new one. Be sure to use the memory IC written with the initial data values.

(3) Power on

Plug the power cord into the wall outlet and switch the power on.

(4) Check and setting of SYSTEM CONSTANT SET:

- 1) Press the DISPLAY key and the PICTURE MODE key on the remote control unit simultaneously.
The SERVICE MENU screen will be displayed.(See Fig.1.)
- 2) In the SERVICE MENU, press the DISPLAY key and PICTURE MODE key simultaneously. Then, the SYSTEM CONSTANT SET screen will be displayed.(See Fig.2.)
- 3) Check whether the setting values of the SYSTEM CONSTANT SET are the same as those indicated in Table1.
If the value is different, select the setting item with the MENU ∇/Δ key, and set the correct value with the MENU $\triangleleft/\triangleright$ key.
- 4) Press the DISPLAY key twice to return to the normal screen.

(5) Receive channel setting

Refer to the **OPERATING INSTRUCTIONS** and set the receive channels (channels preset).

(6) User setting

Check the user setting values in Table 2, and if setting value is different, set the correct value.

For setting, refer to the **OPERATING INSTRUCTIONS**.

(7) Setting of SERVICE MENU

Verify the setting for each setting item in the SERVICE MENU.(See Table 3.) If readjustment is necessary, perform adjustment referring to "SERVICE ADJUSTMENTS".

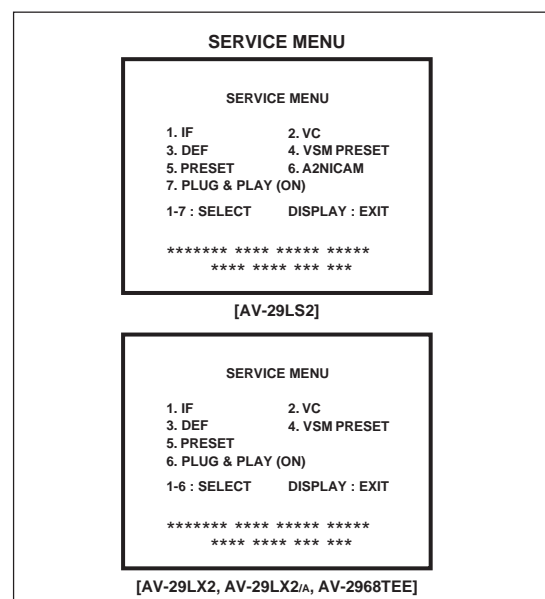
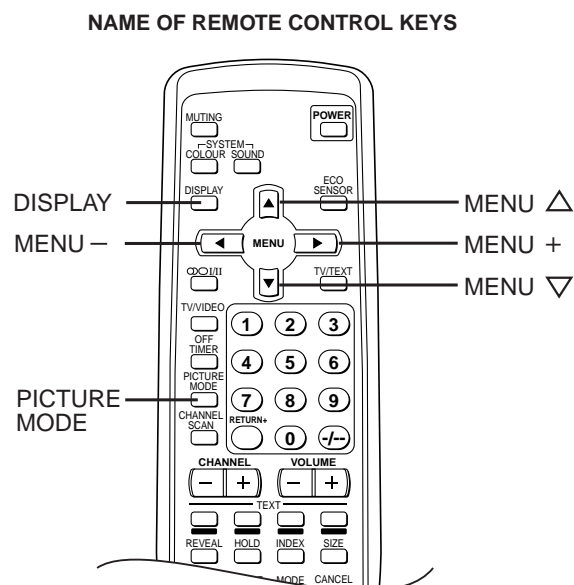


Fig. 1

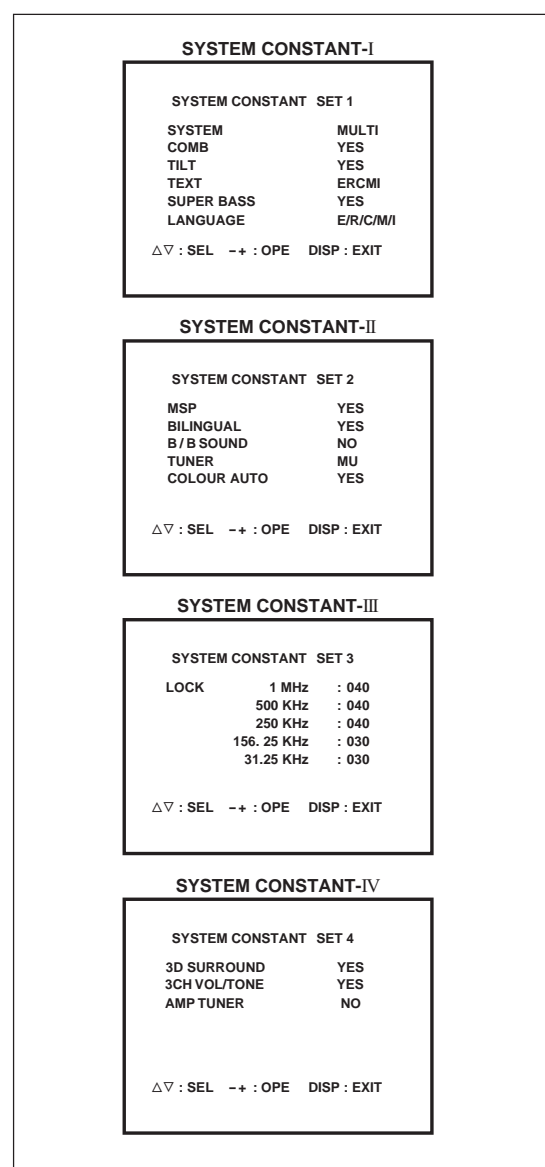


Fig. 2

SETTING OF SYSTEM CONSTANT SET

Setting item	Setting content	Setting value			
		AV-29LS2	AV-29LX2	AV-29LX2/A	AV-2968TEE
SYSTEM	→ MULTI → TRIPLE → PAL → SINGLE → VIET →	MULTI	←	←	←
COMB	→ YES → NO →	YES	←	←	←
TILT	→ YES → NO →	YES	←	←	←
TEXT	→ ERCMI → ERAPU → NO →	ERCMI	NO	←	ERAPU
SUPER BASS	→ YES → NO →	NO	←	←	←
LANGUAGE	→ E/R/C/M/I → E/R/C → E/C →	E/R/C/M/I	-	-	-
	→ E/R/A/P/U → E/R/A/P → E/R/U →	-	E/R/A/P	←	E/R/A/P/U
MSP	→ YES → NO →	YES	NO	←	←
BILINGUAL	→ YES → NO →	NO	←	←	←
B/B SOUND	→ YES → NO →	NO	←	YES	NO
TUNER	→ MU → MA →	MU	←	←	←
COLOUR AUTO	→ YES → NO →	NO	←	YES	NO
LOCK 1MHz	→ 000 → 240 →	040	←	←	←
500KHz	→ 000 → 240 →	040	←	←	←
250KHz	→ 000 → 240 →	040	←	←	←
156.25KHz	→ 000 → 240 →	030	←	←	←
31.25KHz	→ 000 → 240 →	030	←	←	←
3D SURROUND	→ YES → NO →	NO	←	←	←
3CH VOL/TONE	→ YES → NO →	YES	←	←	←
AMP TUNER	→ YES → NO →	NO	←	←	←

Table 1

USER SETTING VALUES

Setting item	Setting value
SUB POWER	ON
CHANNEL POSITION	1 POSITION
CHANNEL PRESET	REFER TO OPERATING INSTRUCTIONS
VOLUME	15 ± 2
TV/VIDEO	TV
VNR	OFF
COMPRESS (16:9)	OFF
AUTO SHUTOFF	OFF
CHILD LOCK	OFF
BLUE BACK	ON
VIDEO-2 SET	VIDEO
LANGUAGE	ENG
AI VOLUME	ON
ON SCREEN DISPLAY	POSITION INDICATION
COLOUR SYSTEM	PAL
SOUND SYSTEM	B/G
STEREO MODE	STEREO [AV-29LS2 only]
PICTURE MODE-VSM	BRIGHT
OFF TIMER	00
ECO SENSOR	OFF
BASS	CENTRE
TREBLE	CENTRE
BALANCE	CENTRE

Table 2

SERVICE MENU SETTING ITEMS

Service menu	Setting item	Service menu	Setting item
1. IF	1. VCO 2. DELAY POINT	5. PRESET Do not adjust	1. PSNS 2. ACL 3. MUS 4. MAT 5. FCO 6. BPS 7. IFLH 8. VID 9. STM 10. AFCW 11. VSW 12. FFI 13. AGC 14. CL 15. AKB 16. HBL 17. BKS 18. READ STATUS 19. VNR 20. PEAK 21. IVG 22. WPL 23. SOFT CLIPPER 24. IF PLL OFFSET 25. OVERSHOOT 26. HCO 27. HP2 28. AI VOLUME ADN 31. CCCLOOP
2. VC	1. CUTOFF(R/G) 2. DRIVE(R/G/B) 3. BRIGHT 4. CONT 5. COLOUR 6. TINT 7. SHARP 8. YDELAY 9. AMP T. SHARP Do not adjust		
3. DEF	1. VER. SLOPE 2. VER. HEIGHT 3. VER. POSITION 4. VER. SCURVE 5. HOR. POSITION 6. HOR. WIDTH 7. EW-PIN 8. EW-TRAPEZ 9. UP CORNER 10. DW CORNER 11. HOR. PARALL 12. HOR. BOW 13. V. ZOOM		
4. VSM PRESET (BRIGHT/STD/SOFT) Do not adjust	1. TINT 2. COLOUR 3. BRIGHT 4. PICTURE 5. DETAIL	6. A2NICAM [AV-29LS2 only] Do not adjust	1. ERROR LIMIT 2. A2 ID THR 3. SOUND SYSTEM
		6/7. PLUG & PLAY(ON) Do not adjust	

Table 3

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 adequately.
4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

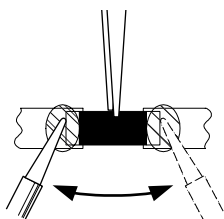
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

■ REPLACEMENT STEPS

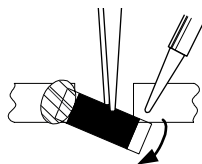
1. How to remove Chip parts

◆ 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.

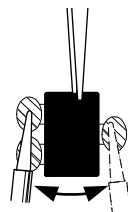


◆ Transistors, diodes, variable resistors, etc.

- (1) Apply extra 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.

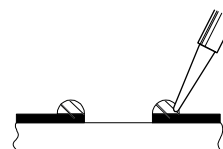


Note : After removing the part, remove remaining solder from the pattern.

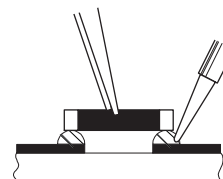
2. How to install Chip parts

◆ Resistors, capacitors, etc.

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

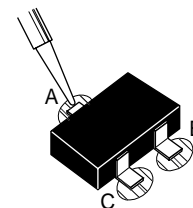


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

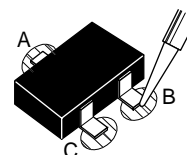


◆ Transistors, diodes, variable resistors, etc.

- (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**.



SERVICE ADJUSTMENTS

ADJUSTMENT PREPARATION

1. You can make the necessary adjustments for this unit with either the remote control unit or with the adjustment equipment and parts as given below.
2. Adjustment with the remote control unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.
3. Make sure that AC power is turned on correctly.
4. Turn on the power for the set and test equipment 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, transformers, capacitors, etc.
7. Presetting before adjustment.

Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit.

- User mode setting position

Setting item	Setting value
PICTURE MODE(VSM)	BRIGHT
VNR	OFF
BASS, TREBLE, BALANCE	CENTRE
TINT, COLOUR, BRIGHT, DETAIL	CENTRE
PICTURE	MAXIMUM

MEASURING INSTRUMENT

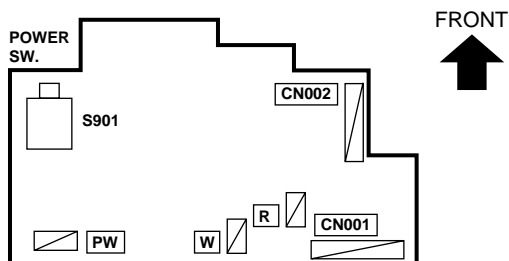
1. DC voltmeter (or Digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [PAL/SECAM/NTSC]
4. Remote control unit

ADJUSTMENT ITEMS

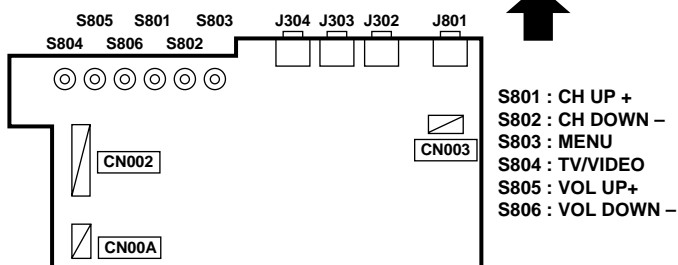
- B1 POWER SUPPLY
- FOCUS ADJUSTMENT
- IF CIRCUIT ADJUSTMENTS
 - Adjustment of VCO (CW)
 - Adjustment of DELAY POINT (AGC TAKE-OVER)
- VC (VIDEO/CHROMA) CIRCUIT ADJUSTMENTS
 - Adjustment of WHITE BALANCE (Low light)
 - Adjustment of WHITE BALANCE (High light)
 - Adjustment of SUB BRIGHT
 - Adjustment of SUB CONTRAST
 - Adjustment of SUB COLOUR-I
 - Adjustment of SUB COLOUR-II
 - Adjustment of SUB TINT-I
 - Adjustment of SUB TINT-II
- DEFLECTION CIRCUIT ADJUSTMENTS
 - Adjustment of V. SLOPE
 - Adjustment of V. POSITION
 - Adjustment of V. HEIGHT
 - Adjustment of H. POSITION
 - Adjustment of H. WIDTH
 - Adjustment of SIDE PIN
 - Adjustment of TRAPEZIUM
 - Adjustment of V. S-CURVE
 - Adjustment of CORNER
 - Adjustment of H. PARALLEL
 - Adjustment of H. BOW
- VSM PRESET SETTING
- PRESET SETTING
- AUDIO ADJUSTMENT [AV-29LS2 only]
- PURITY ADJUSTMENT
- CONVERGENCE ADJUSTMENTS
 - Adjustment of STATIC CONVERGENCE
 - Adjustment of DYNAMIC CONVERGENCE

ADJUSTMENT LOCATIONS

FRONT CONTROL PWB ASS'Y(1/2)

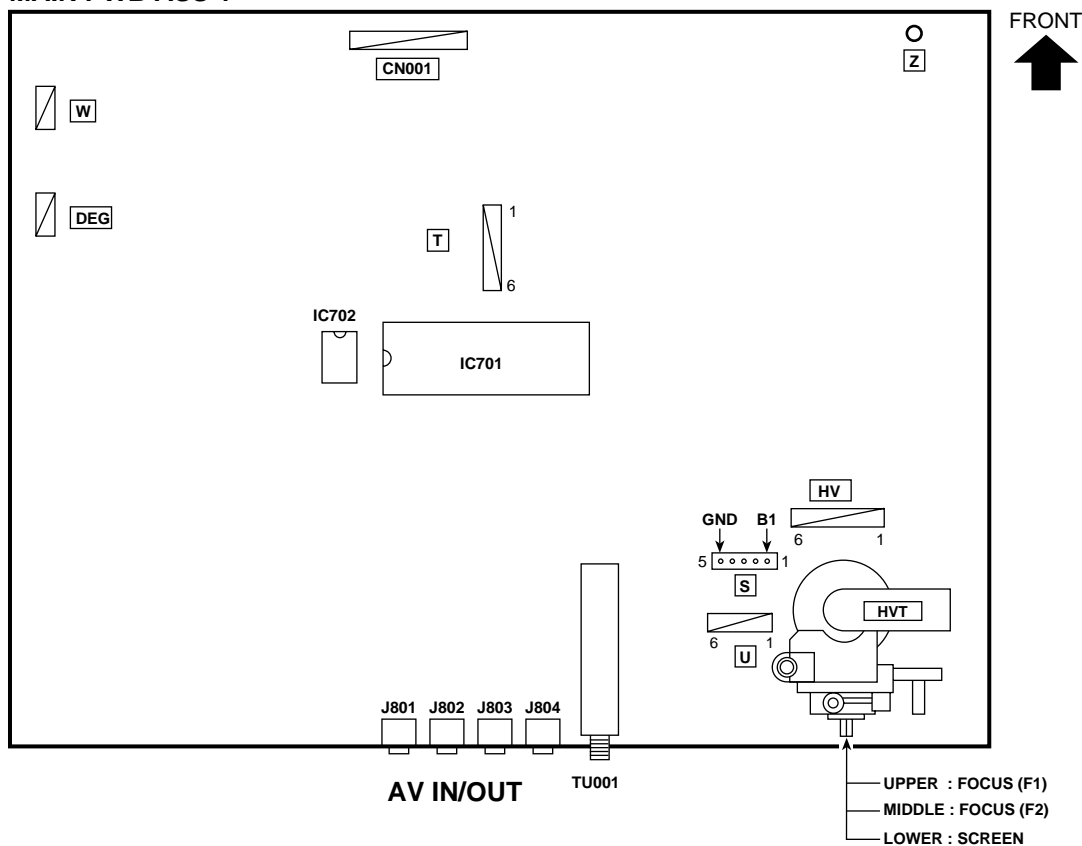


FRONT CONTROL PWB ASS'Y(2/2)



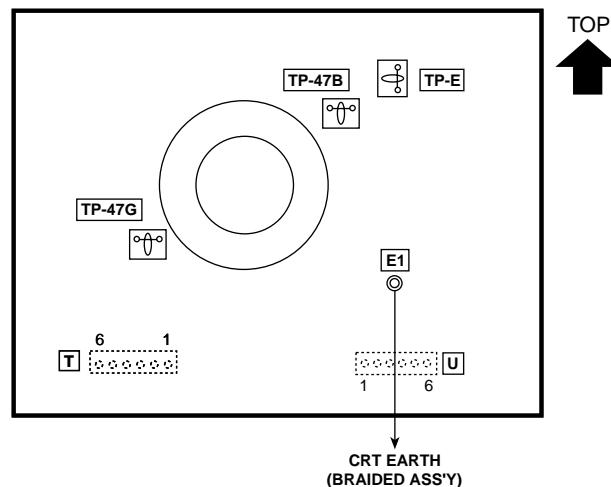
S801 : CH UP +
S802 : CH DOWN -
S803 : MENU
S804 : TV/VIDEO
S805 : VOL UP+
S806 : VOL DOWN -

MAIN PWB ASS'Y



UPPER : FOCUS (F1)
MIDDLE : FOCUS (F2)
LOWER : SCREEN

CRT SOCKET PWB ASS'Y (SOLDER SIDE)



CRT EARTH
(BRAIDED ASS'Y)

BASIC OPERATION IN SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the remote control unit.

2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings:

- 1. IF For entering/adjusting the setting values (adjustment values) of the IF circuit.
- 2. VC For entering/adjusting the setting values (adjustment values) of the VIDEO/CHROMA circuit.
- 3. DEF For entering/adjusting the setting values (adjustment values) of the DEFLECTION circuit.
- 4. VSM PRESET For setting the values of STANDARD, SOFT and BRIGHT.
(VSM: video status memory)
- 5. PRESET For setting the values of the preset.
- 6. A2NICAM For entering/adjusting the setting values (adjustment values) of the multiplicity sound circuit. [AV-29LS2 only]
- 6/7. PLUG & PLAY (ON) This is not used for service.

3. BASIC OPERATION IN SERVICE MENU

(1) How to enter SERVICE MENU

Press the DISPLAY key and the PICTURE MODE key on the remote control unit simultaneously.
The SERVICE MENU screen will be displayed. (See Fig. 1 on the next page.)

(2) Selection of SUB MENU SCREEN

Press one of the keys 1 to 7 on the remote control unit, and select the SUB MENU SCREEN from the SERVICE MENU. (See Fig. 1 on the next page.)

SERVICE MENU → SUB MENU	1. IF
	2. VC
	3. DEF
	4. VSM PRESET
	5. PRESET
	6. A2NICAM [AV-29LS2 only]
	6/7. PLUG & PLAY (ON)

(3) Method of Setting

*Once the setting values are set, they are memorized automatically.
*It must not adjust without inputting a signal.

1) 1. IF

[1. VCO]

- (a) 1 Key Select **1. IF**.
- (b) 1 Key Select **1. VCO**.
- (c) DISPLAY Key When this is pressed twice, you will return to the SERVICE MENU.
● Under normal conditions, no adjustment is required.

[2. DELAY POINT]

- (a) 1 Key Select **1. IF**.
- (b) 2 Key Select **2. DELAY POINT**.
- (c) MENU $\triangleleft/\triangleright$ Key Adjust the setting value.
- (d) DISPLAY Key When this is pressed twice, you will return to the SERVICE MENU.

2) 2. VC, 3. DEF, 4. VSM PRESET, 5. PRESET and 6. A2NICAM

- (a) 2 ~6 Keys Select one from **2. VC**, **3. DEF**, **4. VSM PRESET**, **5. PRESET** and **6. A2NICAM**.
- (b) MENU ∇/\triangle key Select setting items.
- (c) MENU $\triangleleft/\triangleright$ Key Adjust the setting values of the setting items.
● Use the number keys on the remote control unit for setting of WHITE BALANCE.
For the setting, refer to each item concerned.
- (d) DISPLAY Key When this is pressed, you will return to the SERVICE MENU.

3) 6/7. PLUG & PLAY (ON)

This is not used for service.

(4) Release of SERVICE MENU

After completing the setting, return to the SERVICE MENU by pressing the DISPLAY key, then again press the DISPLAY key to return to the normal screen.

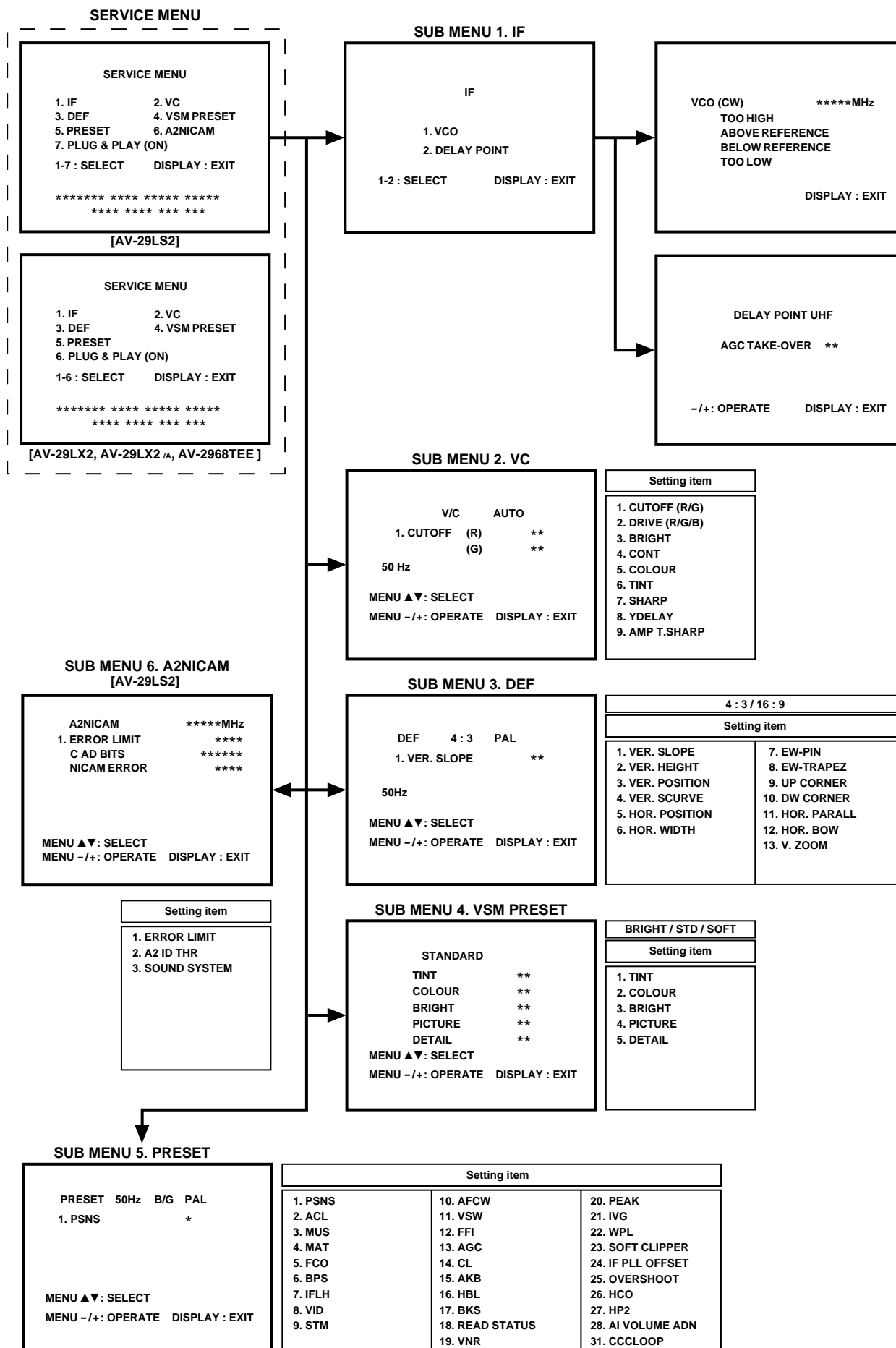


Fig. 1
No. 52062

ADJUSTMENTS


B1 POWER SUPPLY

Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 POWER SUPPLY	Signal Generator DC Voltmeter	B1 (pin 1) GND (pin 5) [CN00S connector in MAIN PWB]		<ol style="list-style-type: none"> 1. Receive a black and white signal. 2. Connect a DC voltmeter between B1 and GND (between pins 1 and 5 of the connector CN00S). 3. Make sure that the voltage is DC134.5 ± 2V.

FOCUS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of FOCUS	Signal generator		FOCUS VR [In HVT]	<p>Notes:</p> <ul style="list-style-type: none"> • Set PICTURE MODE (VSM) to "BRIGHT". • The final adjustment of CONVERGENCE must be done after the FOCUS adjustment. (CONVERGENCE is changed by FOCUS adjustment.) <p>When makes difference by FOCUS adjustment, should be reconfirming PURITY adjustment.</p> <ol style="list-style-type: none"> 1. Receive a cross-hatch signal. 2. While looking at the screen centre, adjust the FOCUS VR so that the vertical and horizontal lines will be clear and in fine detail. 3. Make sure that the picture is in focus even when the screen gets darkened.

IF CIRCUIT ADJUSTMENTS

Item	Measuring instrument	Test point	Adjustment part	Description								
Adjustment of VCO (CW)	Remote control unit		VCO (CW)	<p>Note:</p> <ul style="list-style-type: none">• Under normal conditions, no adjustment is required. <ol style="list-style-type: none">1. Select 1. IF from the SERVICE MENU.2. Select 1. VCO by pressing the 1 key on the remote control unit.3. Receive a broadcast signal.4. Check the characters colour of the BELOW REFERENCE displayed to yellow.5. Press the DISPLAY key three times to return to normal screen.								
<div><div><div>VCO (CW) ***.** MHz</div><div>TOO HIGH ABOVE REFERENCE BELOW REFERENCE TOO LOW</div><div>DISPLAY : EXIT</div></div><div><div>fv</div><div>YELLOW</div></div></div>												
Adjustment of DELAY POINT (AGC TAKE-OVER)	Remote control unit		DELAY POINT	<ol style="list-style-type: none">1. Receive a black and white broadcast signal (colour off).2. Select 1. IF from the SERVICE MENU.3. Select 2. DELAY POINT by pressing the 2 key on the remote control unit.4. Adjust the MENU  key in order to eliminate any noise or beat from the image. Any increase above the initial value produces noise and any decrease below it produces beat.5. Press the DISPLAY key three times to return to the normal screen.6. Turn to other channels and make sure that there are no irregularities.								
<table><tr><th rowspan="2">Setting (Adjustment time)</th><th colspan="2">Initial setting value</th></tr><tr><th>NTSC 3.58</th><th>OTHERS</th></tr><tr><td>DELAY POINT (AGC TAKE-OVER)</td><td>30</td><td>26</td></tr></table>					Setting (Adjustment time)	Initial setting value		NTSC 3.58	OTHERS	DELAY POINT (AGC TAKE-OVER)	30	26
Setting (Adjustment time)	Initial setting value											
	NTSC 3.58	OTHERS										
DELAY POINT (AGC TAKE-OVER)	30	26										

VC (VIDEO/CHROMA) CIRCUIT ADJUSTMENTS

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.
● Do not change the initial setting values of the setting (adjustment) items not listed in "ADJUSTMENT".

[SUB MENU 2. VC] : Do not adjust.

	Setting (Adjustment) item	Variable range	Initial setting value				
			PAL	SECAM	NTSC3.58	NTSC4.43	COMPONENT (V-2)
1	CUT-OFF (R/G)	-32 ~ +31	0/0	←	←	←	-2/+14
2	DRIVE (R/G/B)	-32 ~ +31	0/0/0	←	←	←	←
3	BRIGHT (TV/V-1/V-2/V-3)	-32 ~ +31	-13/0/0/+1	←	←	←	—/—/—/—
4	CONT	-32 ~ +31	-10	←	←	←	—
5	COLOUR	-32 ~ +31	-4	-13	-11	+1	0
6	TINT (TV/VIDEO)	-32 ~ +31	—	—	-15/+2	—/+1	—
7	SHARP (TV/VIDEO)	-32 ~ +31	-28/-22	←	←	←	—/0
8	Y DELAY (TV/VIDEO)	-8 ~ +7	-7/+1	←	0/+1	0/0	—/+1
9	AMP T. SHARP	-32 ~ +31	0	←	←	←	←

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE (Low light)	Signal generator		1. CUTOFF (R) CUTOFF (G)	Note: • Set PICTURE MODE (VSM) to "BRIGHT". 1. Receive a PAL black and white signal (colour off). 2. Select 2. VC from the SERVICE MENU. 3. Select 1. CUTOFF (R) and (G) with MENU ▽/△ key, and set each value to initial setting value with the 4 and 7 keys, or 5 and 8 keys on the remote control unit. 4. Press the 1 key on the remote control unit to produce a single horizontal line. 5. Turn the SCREEN VR fully counterclockwise, then slowly turn it clockwise to where a red, blue or green colour is faintly visible. 6. Use the keys 4 and 7 or 5 and 8 on the remote control unit and adjust the other 2 colours to where the single horizontal line appears white. 7. Turn the SCREEN VR to where the single horizontal line glows faintly. 8. Press the 2 key to return to 1. CUTOFF screen. 9. Press the DISPLAY key twice to return to the normal screen.
	Remote control unit		SCREEN VR [In HVT]	

V/C PAL

1. CUTOFF (R) **

 (G) **

50 Hz

MENU ▲▼: SELECT

MENU -/+: OPERATE DISPLAY : EXIT

REMOTE CONTROL UNIT

H.LINE OFF — 1
H.LINE ON — 2

3

G. LEVEL (▲) — 6
G. LEVEL (▼) — 9

4
R. LEVEL (▲)

5

6

7
R. LEVEL (▼)

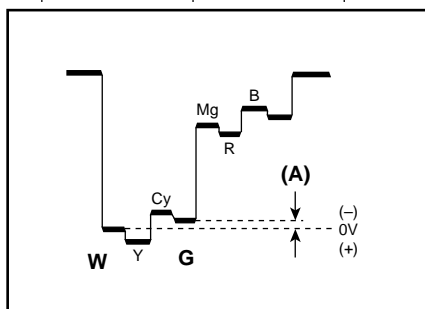
8

9

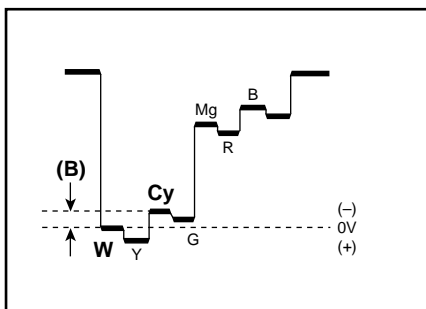
Setting (Adjustment) item	Variable range	Initial setting value
1. CUT OFF	R	-32 — +31
	G	-32 — +31

Item	Measuring instrument	Test point	Adjustment part	Description														
Adjustment of WHITE BALANCE (High light)	Signal generator		2. DRIVE (R) DRIVE (G) DRIVE (B)	<p>Notes:</p> <ul style="list-style-type: none">• Proceed to the following adjustment after having completed the adjustment of LOW LIGHT WHITE BALANCE.• Set PICTURE MODE (VSM) to "BRIGHT". <ol style="list-style-type: none">1. Receive a PAL black and white signal (colour off).2. Select 2. VC from the SERVICE MENU.3. Select 2. DRIVE (R), (G) and (B) with MENU ▽/△ key, and set each value to initial setting value with the 4 to 9 keys on the remote control unit.4. Use the keys 4 to 9 to produce a white screen.5. Press the DISPLAY key twice to return to the normal screen. <table><thead><tr><th>Setting (Adjustment) Item</th><th></th><th>Variable range</th><th>Initial setting value</th></tr></thead><tbody><tr><td rowspan="3">2. DRIVE</td><td>R</td><td>-32 — +31</td><td>0</td></tr><tr><td>G</td><td>-32 — +31</td><td>0</td></tr><tr><td>B</td><td>-32 — +31</td><td>0</td></tr></tbody></table>	Setting (Adjustment) Item		Variable range	Initial setting value	2. DRIVE	R	-32 — +31	0	G	-32 — +31	0	B	-32 — +31	0
	Setting (Adjustment) Item		Variable range		Initial setting value													
2. DRIVE	R	-32 — +31	0															
	G	-32 — +31	0															
	B	-32 — +31	0															
	Remote control unit	<div><div>V/C</div><div>PAL</div><div>1. DRIVE (R) **</div><div>(G) **</div><div>(B) **</div><div>50 Hz</div><div>MENU ▲▼: SELECT</div><div>MENU -/+: OPERATE DISPLAY : EXIT</div></div>																
				<div>REMOTE CONTROL UNIT</div> <div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>R. DRIVE (▲)</div><div>G. DRIVE (▲)</div><div>B. DRIVE (▲)</div><div>R. DRIVE (▼)</div><div>G. DRIVE (▼)</div><div>B. DRIVE (▼)</div></div>														
Adjustment of SUB BRIGHT	Remote control unit		3. BRIGHT	<p>Notes:</p> <ul style="list-style-type: none">• Proceed to the following adjustment after having completed the adjustments of LOW LIGHT WHITE BALANCE and HIGH LIGHT WHITE BALANCE.• Set PICTURE MODE (VSM) to "BRIGHT". <ol style="list-style-type: none">1. Receive a broadcast.2. Select 2. VC from the SERVICE MENU.3. Select 3. BRIGHT with the MENU ▽/△ key.4. Set the initial setting value with the MENU ◀/▶ key.5. If the brightness is not best with the initial setting value, make fine adjustment until you get the best brightness.6. Press the DISPLAY key twice to return to the normal screen.														
Adjustment of SUB CONTRAST	Remote control unit		4. CONT	<p>Notes:</p> <ul style="list-style-type: none">• Proceed to the following adjustment after having completed the adjustment of SUB BRIGHT.• Set PICTURE MODE (VSM) to "BRIGHT". <ol style="list-style-type: none">1. Receive a broadcast.2. Select 2. VC from the SERVICE MENU.3. Select 4. CONT with the MENU ▽/△ key.4. Set the initial setting value with the MENU ◀/▶ key.5. If the contrast is not best with the initial setting value, make fine adjustment until you get the best contrast.6. Press the DISPLAY key twice to return to the normal screen.														

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR-I	Remote control unit		5. COLOUR	<p>[Method of adjustment without measuring instrument]</p> <p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following adjustment after having completed the adjustment of SUB CONT. • Set PICTURE MODE (VSM) to "BRIGHT". <p>– PAL COLOUR –</p> <ol style="list-style-type: none"> 1. Receive a PAL broadcast. 2. Select 2. VC from the SERVICE MENU. 3. Select 5. COLOUR with the MENU ∇/Δ key. 4. Set the initial setting value for PAL COLOUR with the MENU $\triangleleft/\triangleright$ key. 5. If the colour is not best with the initial setting value, make fine adjustment until you get the best colour. 6. Press the DISPLAY key twice to return to the normal screen. <p>– SECAM COLOUR –</p> <ol style="list-style-type: none"> 7. Receive a SECAM broadcast. 8. Press the COLOUR SYSTEM button on the remote control unit to select the SECAM colour system. 9. Make fine adjustment of SECAM COLOUR in the same way as for "PAL COLOUR". <p>– NTSC 3.58 COLOUR –</p> <ol style="list-style-type: none"> 10. Receive a NTSC 3.58MHz broadcast. 11. Press the COLOUR SYSTEM button on the remote control unit to select the NTSC 3.58 colour system. 12. Make similar fine adjustment of NTSC 3.58 COLOUR in the same way as for "PAL COLOUR". <p>– NTSC 4.43 COLOUR –</p> <p>When adjustment is done for NTSC 3.58 COLOUR, appropriate values are automatically set for NTSC 4.43 COLOUR.</p>
Adjustment of SUB COLOUR-II	Signal generator Oscilloscope Remote control unit	TP-47G TP-E (77) [CRT SOCKET PWB]	5. COLOUR	<p>[Method of adjustment using measuring instrument]</p> <p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following adjustment after having completed the adjustment of SUB CONT. • Set PICTURE MODE (VSM) to "BRIGHT". <p>– PAL COLOUR –</p> <ol style="list-style-type: none"> 1. Receive a PAL colour bar signal (full field colour bar 75% white). 2. Select 2. VC from the SERVICE MENU. 3. Select 5. COLOUR with the MENU ∇/Δ key. 4. Set the initial setting value of PAL COLOUR with the MENU $\triangleleft/\triangleright$ key. 5. Connect the oscilloscope between TP-47G and TP-E. 6. Adjust PAL COLOUR to set the value (A) in the figure to +15V (V_{w-g}). <p>– SECAM COLOUR –</p> <ol style="list-style-type: none"> 7. Receive a SECAM colour bar signal (full field colour bar 75% white). 8. Press the COLOUR SYSTEM button on the remote control unit to select the SECAM colour system. 9. Set the initial setting value of SECAM COLOUR with the MENU $\triangleleft/\triangleright$ key. 10. Adjust SECAM COLOUR to set the value (A) in the figure to 0V (V_{w-g}). <p>– NTSC 3.58 COLOUR –</p> <ol style="list-style-type: none"> 11. Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). 12. Press the COLOUR SYSTEM button on the remote control unit to select the NTSC 3.58 colour system. 13. Set the initial setting value of NTSC 3.58 COLOUR with the MENU $\triangleleft/\triangleright$ key. 14. Adjust NTSC 3.58 COLOUR to set the value (A) in the figure to +6V (V_{w-g}). <p>– NTSC 4.43 COLOUR –</p> <p>When adjustment is done for NTSC 3.58 COLOUR, appropriate values are automatically set for NTSC 4.43 COLOUR.</p>



Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB TINT-I	Signal generator Remote control unit		6. TINT	<p>[Method of adjustment without measuring instrument]</p> <p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following adjustment after having completed the adjustment of SUB CONT. • Set PICTURE MODE (VSM) to "BRIGHT". <p>– NTSC 3.58 TINT –</p> <ol style="list-style-type: none"> 1. Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). 2. Press the COLOUR SYSTEM button on the remote control unit to select the NTSC 3.58 colour system. 3. Select 2.VC from the SERVICE MENU. 4. Select 6. TINT with the MENU ∇/Δ key. 5. Set the initial setting value of NTSC 3.58 with the MENU $\triangleleft/\triangleright$ key. 6. If you cannot get the best tint with the initial setting value, make fine adjustment until you get the best tint. 7. Press the DISPLAY key twice to return to the normal screen. <p>– NTSC 4.43 TINT –</p> <p>When adjustment is done for NTSC 3.58 TINT, appropriate values are automatically set for NTSC 4.43 TINT.</p>
Adjustment of SUB TINT-II	Signal generator Oscilloscope Remote control unit	TP-47G TP-E (77) [CRT SOCKET PWB]	6. TINT	<p>[Method of adjustment using measuring instrument]</p> <p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following adjustment after having completed the adjustment of SUB CONT. • Set PICTURE MODE (VSM) to "BRIGHT". <p>– NTSC 3.58 TINT –</p> <ol style="list-style-type: none"> 1. Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). 2. Press the COLOUR SYSTEM button on the remote control unit to select the NTSC 3.58 colour system. 3. Select 2.VC from the SERVICE MENU. 4. Select 6. TINT with the MENU ∇/Δ key. 5. Set the initial setting value of NTSC 3.58 with the MENU $\triangleleft/\triangleright$ key. 6. Connect the oscilloscope between TP-47G and TP-E. 7. Adjust NTSC 3.58 TINT to set the value (B) in the figure to +2V (V_{W-CY}). 8. Press the DISPLAY key twice to return to the normal screen. <p>– NTSC 4.43 TINT –</p> <p>When adjustment is done for NTSC 3.58 TINT, appropriate values are automatically set for NTSC 4.43 TINT.</p>



DEFLECTION CIRCUIT ADJUSTMENTS

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.

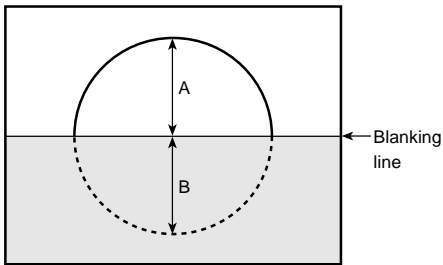
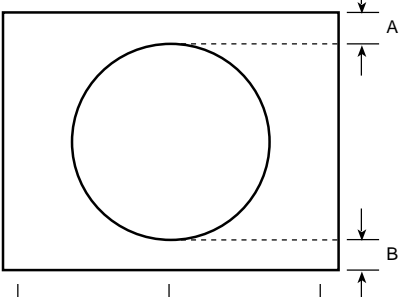
Note:

Proceed to the following adjustment after having completed the adjustments of SUB BRIGHT and SUB PICTURE.

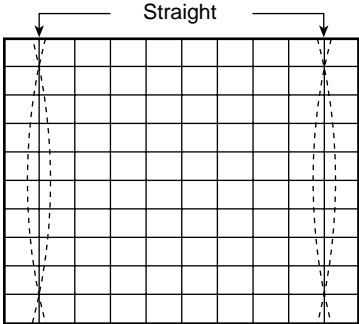
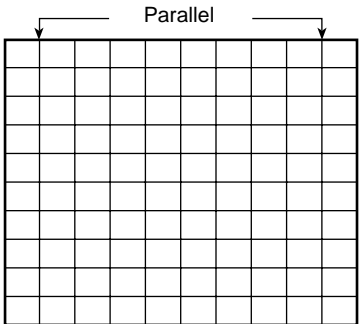
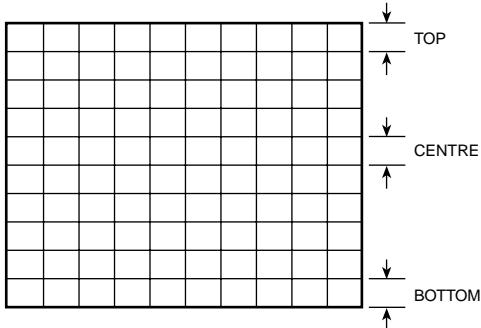
[SUB MENU 3. DEF]

Setting (Adjustment) item	Variable range	Initial setting value				
		4:3		COMPRESS(16:9)		COMPONENT DVD (50Hz)
		50Hz	60Hz	50Hz	60Hz	
1. VER. SLOPE	−32 — +31	+2	0	0	0	—
2. VER. HEIGHT	−32 — +31	+31	0	−26	−29	—
3. VER. POSITION	−32 — +31	−3	−1	−3	−1	—
4. VER. SCURVE	−32 — +31	−10	0	−10	0	—
5. HOR. POSITION	−32 — +31	0	+7	0	+7	+7
6. HOR. WIDTH	−32 — +31	11	−1	11	−1	—
7. EW-PIN	−32 — +31	−12	−1	−13	−12	—
8. EW-TRAPEZ	−32 — +31	−4	0	0	−1	—
9. UP CORNER	−32 — +31	−20	0	0	0	—
10. DW CORNER	−32 — +31	−19	0	0	0	—
11. HOR. PARALL	−32 — +31	0	0	0	0	—
12. HOR. BOW	−32 — +31	0	0	0	0	—
13. V.ZOOM	−32 — +31	−1	−1	14	14	—

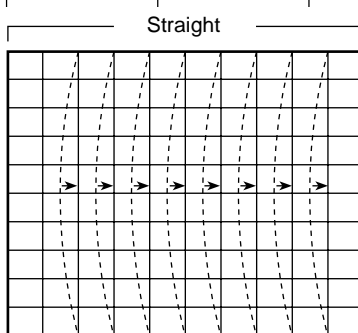
[COMPRESS (16:9) : OFF, fv: 50Hz mode]

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of V. SLOPE	Signal generator Remote control unit		1. VER. SLOPE	<ol style="list-style-type: none"> 1. Receive a PAL circle pattern signal of vertical frequency 50Hz. 2. Select 3. DEF from the SERVICE MENU. 3. Select 1. VER. SLOPE with the MENU ∇/Δ key. 4. Set the initial setting value of 1. VER. SLOPE with the MENU $\triangleleft/\triangleright$ key. 5. Adjust 1. VER. SLOPE to make "A = B" with the MENU $\triangleleft/\triangleright$ key.
				
Adjustment of V. POSITION	Signal generator Remote control unit		3. VER. POSITION	<ol style="list-style-type: none"> 6. Select 3. VER. POSITION with the MENU ∇/Δ key. 7. Set the initial setting value of 3. VER. POSITION with the MENU $\triangleleft/\triangleright$ key. 8. Adjust 3. VER. POSITION to make "A = B" with the MENU $\triangleleft/\triangleright$ key. <p>(to be continued)</p>
				

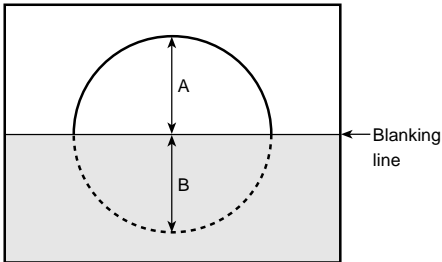
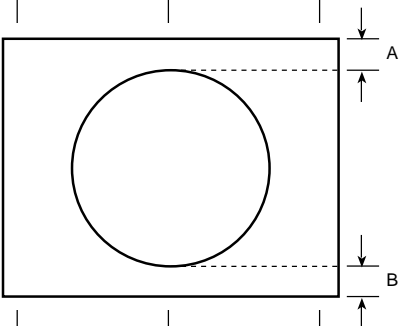
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of V. HEIGHT	Signal generator Remote control unit		2. VER. HEIGHT 13. V. ZOOM	<p>9. Receive a PAL cross-hatch signal.</p> <p>10. Select 2. VER. HEIGHT with the MENU ∇/Δ key.</p> <p>11. Set the initial setting value of 2. VER. HEIGHT with the MENU $\triangleleft/\triangleright$ key.</p> <p>12. Select 13. V. ZOOM with the MENU ∇/Δ key.</p> <p>13. Set the initial setting value of 13. V. ZOOM with the MENU $\triangleleft/\triangleright$ key.</p> <p>14. Adjust 13. V. ZOOM and make the vertical screen size 91% of the picture size with the MENU $\triangleleft/\triangleright$ key.</p>
	<p>Screen size 91%</p> <p>Picture size 100%</p>			
Adjustment of H. POSITION	Signal generator Remote control unit		5. HOR. POSITION	<p>15. Receive a PAL circle pattern signal.</p> <p>16. Select 5. HOR. POSITION with the MENU ∇/Δ key.</p> <p>17. Set the initial setting value of 5. HOR. POSITION with the MENU $\triangleleft/\triangleright$ key.</p> <p>18. Adjust 5. HOR. POSITION to make "C=D" with the MENU $\triangleleft/\triangleright$ key.</p>
	<p>C</p> <p>D</p>			
Adjustment of H. WIDTH	Signal generator Remote control unit		6. HOR. WIDTH	<p>19. Receive a PAL cross-hatch signal.</p> <p>20. Select 6. HOR. WIDTH with the MENU ∇/Δ key.</p> <p>21. Set the initial setting value of 6. HOR. WIDTH with the MENU $\triangleleft/\triangleright$ key.</p> <p>22. Adjust 6. HOR. WIDTH and make the horizontal screen size 91% of the picture size with the MENU $\triangleleft/\triangleright$ key.</p>
	<p>Screen size 91%</p> <p>Picture size 100%</p>			(to be continued)

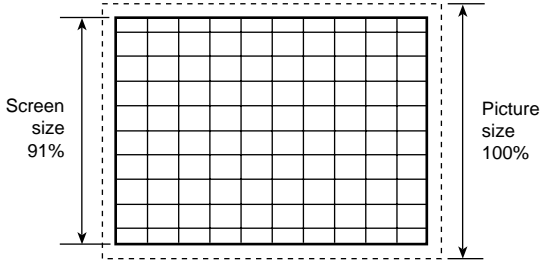
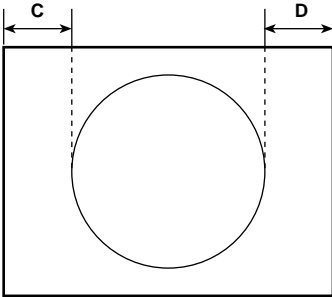
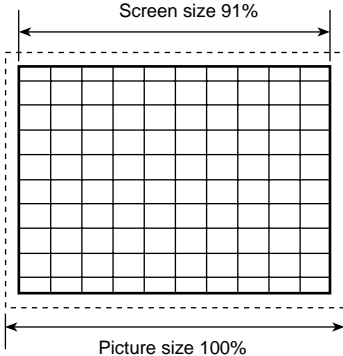
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SIDE PIN	Signal generator Remote control unit		7. EW-PIN	<p>23. Select 7. EW-PIN with the MENU ∇/Δ key.</p> <p>24. Set the initial setting value of 7. EW-PIN with the MENU $\triangleleft/\triangleright$ key.</p> <p>25. Adjust 7. EW-PIN so that the first vertical lines at the left and right edges on the screen are straight.</p>
				
Adjustment of TRAPEZIUM	Signal generator Remote control unit		8. EW-TRAPEZ	<p>26. Select 8. EW-TRAPEZ with the MENU ∇/Δ key.</p> <p>27. Set the initial setting value of 8. EW-TRAPEZ with the MENU $\triangleleft/\triangleright$ key.</p> <p>28. Adjust 8. EW-TRAPEZ so that the vertical lines at the left and right edges on the screen are in parallel.</p>
				
Adjustment of V.S-CURVE	Signal generator Remote control unit		4. VER. SCURVE	<p>29. Select 4. VER. SCURVE with the MENU ∇/Δ key.</p> <p>30. Set the initial setting value of 4. VER. SCURVE with the MENU $\triangleleft/\triangleright$ key.</p> <p>31. Adjust 4. VER. SCURVE so that the spaces of each line on TOP, CENTRE and BOTTOM become uniform.</p>
				 <p>(to be continued)</p>

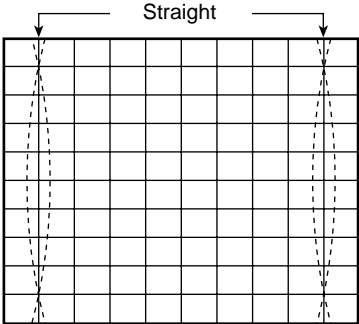
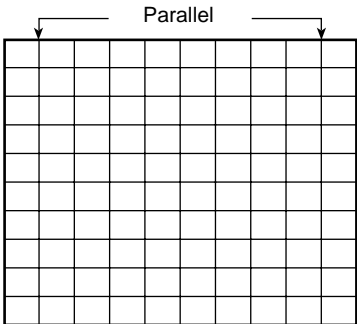
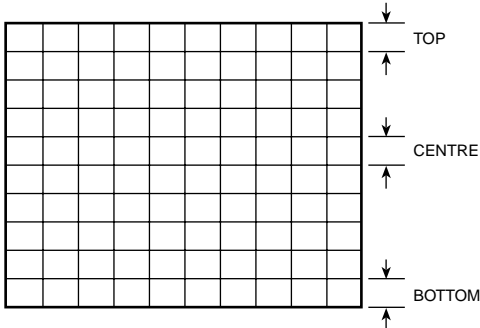
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of CORNER	Signal generator Remote control unit		9. UP CORNER 10. DW CORNER	32. Select 9. UP CORNER with the MENU ∇/Δ key. 33. Set the initial setting value of 9. UP CORNER with the MENU $\triangleleft/\triangleright$ key. 34. Select 10. DW CORNER with the MENU ∇/Δ key. 35. Set the initial setting value of 10. DW CORNER with the MENU $\triangleleft/\triangleright$ key. 36. Adjust 9. UP CORNER and 10. DW CORNER so that the vertical lines at the four corners on the screen are straight.
Adjustment of H. PARALLEL	Signal generator Remote control unit		11. HOR. PARALL	37. Select 11. HOR. PARALL with the MENU ∇/Δ key. 38. Set the initial setting value of 11. HOR. PARALL with the MENU $\triangleleft/\triangleright$ key. 39. Adjust 11. HOR. PARALL to optimize the parallelogram distortion.
Adjustment of H. BOW	Signal generator Remote control unit		12. HOR. BOW	40. Select 12. HOR. BOW with the MENU ∇/Δ key. 41. Set the initial setting value of Select 12. HOR. BOW with the MENU $\triangleleft/\triangleright$ key. 42. Adjust 12. HOR. BOW to optimize the horizontal arc distortion. 43. Press the DISPLAY key twice to return to the normal screen.



[COMPRESS (16 : 9) : OFF, fv: 60Hz mode]

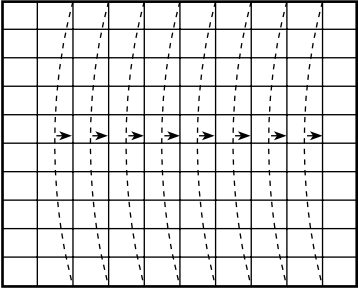
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of V. SLOPE	Signal generator Remote control unit		1. VER. SLOPE	1. Receive a NTSC circle pattern signal of vertical frequency 60Hz. 2. Select 3. DEF from the SERVICE MENU. 3. Select 1. VER. SLOPE with the MENU ∇/Δ key. 4. Set the initial setting value of 1. VER. SLOPE with the MENU $\triangleleft/\triangleright$ key. 5. Adjust 1. VER. SLOPE to make " A = B " with the MENU $\triangleleft/\triangleright$ key.
				
Adjustment of V. POSITION	Signal generator Remote control unit		3. VER. POSITION	6. Select 3. VER. POSITION with the MENU ∇/Δ key. 7. Set the initial setting value of 3. VER. POSITION with the MENU $\triangleleft/\triangleright$ key. 8. Adjust 3. VER. POSITION to make " A = B " with the MENU $\triangleleft/\triangleright$ key.
				(to be continued)

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of V. HEIGHT	Signal generator Remote control unit		2. VER. HEIGHT 13. V. ZOOM	9. Receive a NTSC cross-hatch signal. 10. Select 2. VER. HEIGHT with the MENU ∇/Δ key. 11. Set the initial setting value of 2. VER. HEIGHT with the MENU $\triangleleft/\triangleright$ key. 12. Select 13. V. ZOOM with the MENU ∇/Δ key. 13. Set the initial setting value of 13. V. ZOOM with the MENU $\triangleleft/\triangleright$ key. 14. Adjust 13. V. ZOOM and make the vertical screen size 91% of the picture size with the MENU $\triangleleft/\triangleright$ key.
				
Adjustment of H. POSITION	Signal generator Remote control unit		5. HOR. POSITION	15. Receive a NTSC circle pattern signal. 16. Select 5. HOR. POSITION with the MENU ∇/Δ key. 17. Set the initial setting value of 5. HOR. POSITION with the MENU $\triangleleft/\triangleright$ key. 18. Adjust 5. HOR POSITION to make "C=D" with the MENU $\triangleleft/\triangleright$ key.
				
Adjustment of H. WIDTH	Signal generator Remote control unit		6. HOR. WIDTH	19. Receive a NTSC cross-hatch signal. 20. Select 6. HOR. WIDTH with the MENU ∇/Δ key. 21. Set the initial setting value of 6. HOR. WIDTH with the MENU $\triangleleft/\triangleright$ key. 22. Adjust 6. HOR. WIDTH and make the horizontal screen size 91% of the picture size with the MENU $\triangleleft/\triangleright$ key.
				(to be continued)

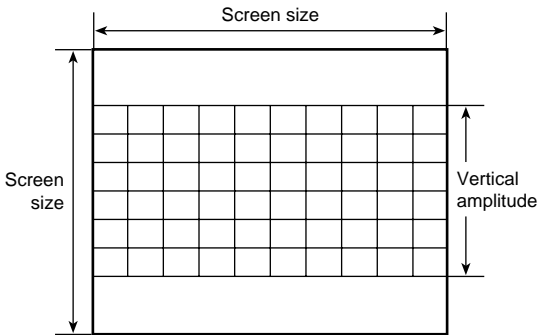
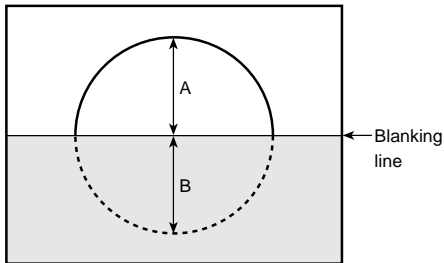
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SIDE PIN	Signal generator Remote control unit		7. EW-PIN	<p>23. Select 7. EW-PIN with the MENU ∇/Δ key.</p> <p>24. Set the initial setting value of 7. EW-PIN with the MENU $\triangleleft/\triangleright$ key.</p> <p>25. Adjust 7. EW-PIN so that the first vertical lines at the left and right edges on the screen are straight.</p>
				
Adjustment of TRAPEZIUM	Signal generator Remote control unit		8. EW-TRAPEZ	<p>26. Select 8. EW-TRAPEZ with the MENU ∇/Δ key.</p> <p>27. Set the initial setting value of 8. EW-TRAPEZ with the MENU $\triangleleft/\triangleright$ key.</p> <p>28. Adjust 8. EW-TRAPEZ so that the vertical lines at the left and right edges on the screen are in parallel.</p>
				
Adjustment of V.S-CURVE	Signal generator Remote control unit		4. VER. SCURVE	<p>29. Select 4. VER. SCURVE with the MENU ∇/Δ key.</p> <p>30. Set the initial setting value of 4. VER. SCURVE with the MENU $\triangleleft/\triangleright$ key.</p> <p>31. Adjust 4. VER. SCURVE so that the spaces of each line on TOP, CENTRE and BOTTOM become uniform.</p>
				 <p>(to be continued)</p>

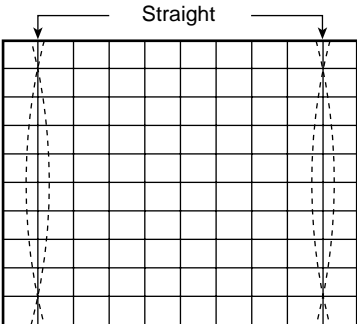
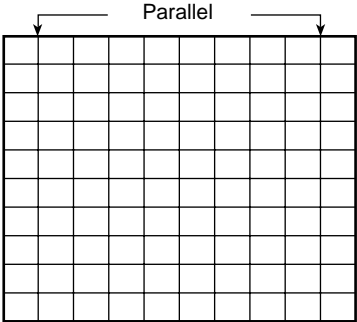
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of CORNER	Signal generator Remote control unit		9. UP CORNER 10. DW CORNER	32. Select 9. UP CORNER with the MENU ▽/△ key. 33. Set the initial setting value of 9. UP CORNER with the MENU </> key. 34. Select 10. DW CORNER with the MENU ▽/△ key. 35. Set the initial setting value of 10. DW CORNER with the MENU </> key. 36. Adjust 9. UP CORNER and 10. DW CORNER so that the vertical lines at the four corners on the screen are straight.
Adjustment of H. PARALLEL	Signal generator Remote control unit		11. HOR. PARALL	37. Select 11. HOR. PARALL with the MENU ▽/△ key. 38. Set the initial setting value of 11. HOR. PARALL with the MENU </> key. 39. Adjust 11. HOR. PARALL to optimize the parallelogram distortion.
Adjustment of H. BOW	Signal generator Remote control unit		12. HOR. BOW	40. Select 12. HOR. BOW with the MENU ▽/△ key. 41. Set the initial setting value of Select 12. HOR. BOW with the MENU </> key. 42. Adjust 12. HOR. BOW to optimize the horizontal arc distortion. 43. Press the DISPLAY key twice to return to the normal screen.

Straight

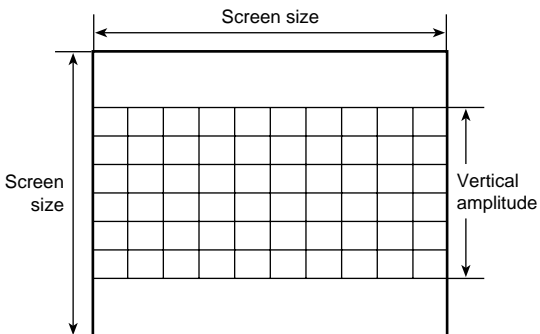
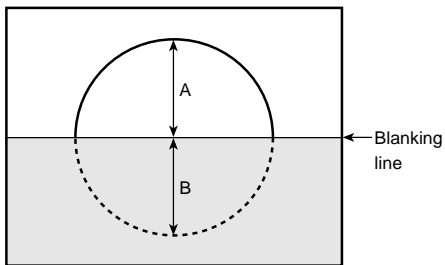


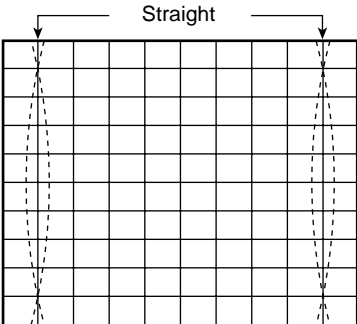
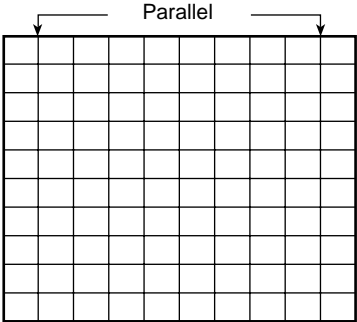
[COMPRESS (16 : 9) : ON, fv: 50Hz mode]

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of V. HEIGHT	Signal generator Remote control unit		13. V. ZOOM 2. VER. HEIGHT	<ol style="list-style-type: none"> 1. Receive a PAL cross-hatch signal of vertical frequency 50Hz. 2. Select COMPRESS from the MENU and set COMPRESS to ON. 3. Select 3. DEF from the SERVICE MENU. 4. Set the initial setting value of 13. V. ZOOM with the MENU $\triangleleft/\triangleright$ key. 5. Select 2. VER. HEIGHT with the MENU ∇/\triangle key. 6. Set the initial setting value of 2. VER. HEIGHT with the MENU $\triangleleft/\triangleright$ key. 7. Adjust 2. VER. HEIGHT to set the vertical amplitude of the image to 295mm.
				
Adjustment of V. SLOPE	Signal generator Remote control unit		1. VER. SLOPE	<ol style="list-style-type: none"> 8. Receive a PAL circle pattern signal of vertical frequency 50Hz. 9. Select 3. DEF from the SERVICE MENU. 10. Select 1. VER. SLOPE with the MENU ∇/\triangle key. 11. Set the initial setting value of 1. VER. SLOPE with the MENU $\triangleleft/\triangleright$ key. 12. Adjust 1. VER. SLOPE to make "A = B" with the MENU $\triangleleft/\triangleright$ key.
				(to be continued)

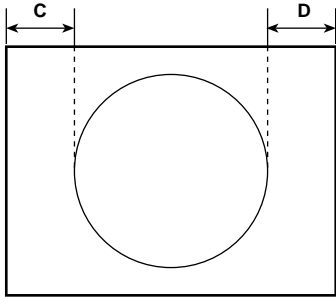
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SIDE PIN	Signal generator Remote control unit		7. EW-PIN	<p>13. Receive a PAL cross-hatch signal.</p> <p>14. Select 7. EW-PIN with the MENU ∇/Δ key.</p> <p>15. Set the initial setting value of 7. EW-PIN with the MENU $\triangleleft/\triangleright$ key.</p> <p>16. Adjust 7. EW-PIN so that the first vertical lines at the left and right edges on the screen are straight.</p>
				
Adjustment of TRAPEZIUM	Signal generator Remote control unit		8. EW-TRAPEZ	<p>17. Select 8. EW-TRAPEZ with the MENU ∇/Δ key.</p> <p>18. Set the initial setting value of 8. EW-TRAPEZ with the MENU $\triangleleft/\triangleright$ key.</p> <p>19. Adjust 8. EW-TRAPEZ so that the vertical lines at the left and right edges on the screen are in parallel.</p>
				
Adjustment of CORNER	Signal generator Remote control unit		9. UP CORNER 10. DW CORNER	<p>20. Select 9. UP CORNER with the MENU ∇/Δ key.</p> <p>21. Set the initial setting value of 9. UP CORNER with the MENU $\triangleleft/\triangleright$ key.</p> <p>22. Select 10. DW CORNER with the MENU ∇/Δ key.</p> <p>23. Set the initial setting value of 10. DW CORNER with the MENU $\triangleleft/\triangleright$ key.</p> <p>24. Adjust 9. UP CORNER and 10. DW CORNER so that the vertical lines at the four corners on the screen are straight.</p> <p>25. Press the DISPLAY key twice to return to the normal screen.</p>

[COMPRESS (16 : 9) : ON, fv: 60Hz mode]

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of V. HEIGHT	Signal generator Remote control unit		13. V. ZOOM 2. VER. HEIGHT	<ol style="list-style-type: none"> 1. Receive a NTSC cross-hatch signal of vertical frequency 60Hz. 2. Select COMPRESS from the MENU and set COMPRESS to ON. 3. Select 3. DEF from the SERVICE MENU. 4. Set the initial setting value of 13. V. ZOOM with the MENU $\triangleleft/\triangleright$ key. 5. Select 2. VER. HEIGHT with the MENU ∇/\triangle key. 6. Set the initial setting value of 2. VER. HEIGHT with the MENU $\triangleleft/\triangleright$ key. 7. Adjust 2. VER. HEIGHT to set the vertical amplitude of the image to 295mm.
				
Adjustment of V. SLOPE	Signal generator Remote control unit		1. VER. SLOPE	<ol style="list-style-type: none"> 8. Receive a NTSC circle pattern signal of vertical frequency 60Hz. 9. Select 3. DEF from the SERVICE MENU. 10. Select 1. VER. SLOPE with the MENU ∇/\triangle key. 11. Set the initial setting value of 1. VER. SLOPE with the MENU $\triangleleft/\triangleright$ key. 12. Adjust 1. VER. SLOPE to make "A = B" with the MENU $\triangleleft/\triangleright$ key.
				
(to be continued)				

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SIDE PIN	Signal generator Remote control unit		7. EW-PIN	<p>13. Receive a NTSC cross-hatch signal.</p> <p>14. Select 7. EW-PIN with the MENU ∇/Δ key.</p> <p>15. Set the initial setting value of 7. EW-PIN with the MENU $\triangleleft/\triangleright$ key.</p> <p>16. Adjust 7. EW-PIN so that the first vertical lines at the left and right edges on the screen are straight.</p>
				
Adjustment of TRAPEZIUM	Signal generator Remote control unit		8. EW-TRAPEZ	<p>17. Select 8. EW-TRAPEZ with the MENU ∇/Δ key.</p> <p>18. Set the initial setting value of 8. EW-TRAPEZ with the MENU $\triangleleft/\triangleright$ key.</p> <p>19. Adjust 8. EW-TRAPEZ so that the vertical lines at the left and right edges on the screen are in parallel.</p>
				
Adjustment of CORNER	Signal generator Remote control unit		9. UP CORNER 10. DW CORNER	<p>20. Select 9. UP CORNER with the MENU ∇/Δ key.</p> <p>21. Set the initial setting value of 9. UP CORNER with the MENU $\triangleleft/\triangleright$ key.</p> <p>22. Select 10. DW CORNER with the MENU ∇/Δ key.</p> <p>23. Set the initial setting value of 10. DW CORNER with the MENU $\triangleleft/\triangleright$ key.</p> <p>24. Adjust 9. UP CORNER and 10. DW CORNER so that the vertical lines at the four corners on the screen are straight.</p> <p>25. Press the DISPLAY key twice to return to the normal screen.</p>

[VIDEO - 2 SET : COMPONENT, fv: 50/60Hz mode]

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of H. POSITION	Signal generator Remote control unit 		5. HOR. POSITION	<ol style="list-style-type: none"> 1. Receive a PAL circle pattern signal to VIDEO-2 terminal. 2. Select VIDEO-2 SET from the MENU and set VIDEO-2 SET to COMPONENT. 3. Select 3. DEF from the SERVICE MENU. 4. Select 5. HOR. POSITION with the MENU ∇/Δ key. 5. Set the initial setting value of 5. HOR. POSITION with the MENU $\triangleleft/\triangleright$ key. 6. Adjust 5. HOR POSITION to make "C=D" with the MENU $\triangleleft/\triangleright$ key. 7. Press the DISPLAY key twice to return to the normal screen.

VSM PRESET SETTING

Item	Measuring instrument	Test point	Adjustment part	Description																																			
Setting of VSM PRESET	Remote control unit		1. TINT 2. COLOUR 3. BRIGHT 4. PICTURE 5. DETAIL	1. Select 4. VSM PRESET from the SERVICE MENU. 2. Select BRIGHT with the PICTURE MODE key. 3. Adjust the MENU ▽/△ key and MENU ◁/▷ key to reset the set values of 1. TINT – 5. DETAIL to the values shown in the table. 4. Respectively select the VSM PRESET mode for SOFT and STANDARD, and make similar adjustment as in 3 above. 5. Press the DISPLAY key twice to return to the normal screen.																																			
		<div><p>SUB MENU 4. VSM PRESET</p><table><tr><td colspan="2">BRIGHT</td></tr><tr><td>TINT</td><td>**</td></tr><tr><td>COLOUR</td><td>**</td></tr><tr><td>BRIGHT</td><td>**</td></tr><tr><td>PICTURE</td><td>**</td></tr><tr><td>DETAIL</td><td>**</td></tr></table><p>MENU ▲▼: SELECT MENU -/+: OPERATE DISPLAY : EXIT</p></div> <table><tr><th><div>VSM preset mode</div><div>VSM Setting item</div></th><th>BRIGHT</th><th>STANDARD</th><th>SOFT</th></tr><tr><td>1. TINT SETTING VALUE</td><td>15</td><td>←</td><td>←</td></tr><tr><td>2. COLOUR SETTING VALUE</td><td>15</td><td>←</td><td>←</td></tr><tr><td>3. BRIGHT SETTING VALUE</td><td>15</td><td>←</td><td>←</td></tr><tr><td>4. PICTURE SETTING VALUE</td><td>30</td><td>15</td><td>11</td></tr><tr><td>5. DETAIL SETTING VALUE</td><td>15</td><td>←</td><td>7</td></tr></table>				BRIGHT		TINT	**	COLOUR	**	BRIGHT	**	PICTURE	**	DETAIL	**	<div>VSM preset mode</div> <div>VSM Setting item</div>	BRIGHT	STANDARD	SOFT	1. TINT SETTING VALUE	15	←	←	2. COLOUR SETTING VALUE	15	←	←	3. BRIGHT SETTING VALUE	15	←	←	4. PICTURE SETTING VALUE	30	15	11	5. DETAIL SETTING VALUE	15
BRIGHT																																							
TINT	**																																						
COLOUR	**																																						
BRIGHT	**																																						
PICTURE	**																																						
DETAIL	**																																						
<div>VSM preset mode</div> <div>VSM Setting item</div>	BRIGHT	STANDARD	SOFT																																				
1. TINT SETTING VALUE	15	←	←																																				
2. COLOUR SETTING VALUE	15	←	←																																				
3. BRIGHT SETTING VALUE	15	←	←																																				
4. PICTURE SETTING VALUE	30	15	11																																				
5. DETAIL SETTING VALUE	15	←	7																																				

PRESET SETTING

- Do not adjust 5. PRESET in the SERVICE MENU as it requires no adjustment.

[SUB MENU 5. PRESET]

	Setting item	Variable range	Initial setting value
1	PSNS	0/1	0
2	ACL	0/1	0
3	MUS	0/1	0
4	MAT	0/1	0
5	FCO	0/1	0
6	BPS	0/1	0
7	IFLH	0/1	0
8	VID	0/1	0
9	STM	0/1	0
10	AFCW	0/1	0
11	VSW	0/1	0
12	FFI	0/1	0
13	AGC	00/01/10/11	01
14	CL	50 – 95	50
15	AKB	0/1	0
16	HBL	0/1	0
17	BKS	0/1	1
18	READ STATUS	—	—
19	VNR	00 – 63	25
20	PEAK	0 – 3	1
21	IVG	0/1	1
22	WPL	0 – F	5
23	SOFT CLIPPER	0 – 3	0
24	IF PLL OFFSET	0 – 63	32
25	OVERSHOOT	0 – 3	3
26	HCO	0/1	0
27	HP2	0/1	0
28	AI VOLUME ADN	00/01/10/11	10
31	CCCLOOP	0 – 4	0

AUDIO ADJUSTMENT [AV-29LS2 only]

- Do not adjust 6. A2NICAM (1.ERROR LIMIT, 2.A2 ID THR, 3.SOUND SYSTEM) in the SERVICE MENU as it requires no adjustment.

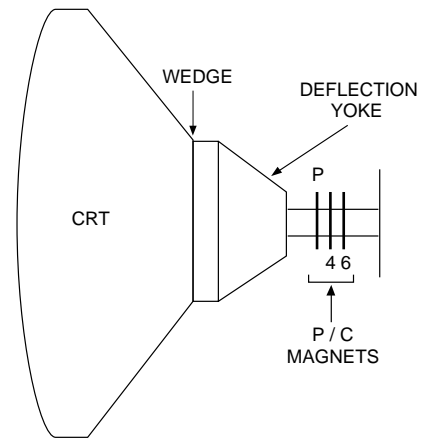
[SUB MENU 6. A2NICAM]

Setting item	Variable range	Initial setting value (fixed)
1. ERROR LIMIT (Do not adjust.)	000H – FF0H	100H
2. A2 ID THR (Do not adjust.)	00H – FFH	0AH
3. SOUND SYSTEM (Do not adjust.)	—	—

PURITY ADJUSTMENT

Note: The final adjustment of CONVERGENCE must be done after the FOCUS adjustment. (CONVERGENCE is changed by FOCUS adjustment.)
When makes difference by FOCUS adjustment, should be reconfirming 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 centre 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

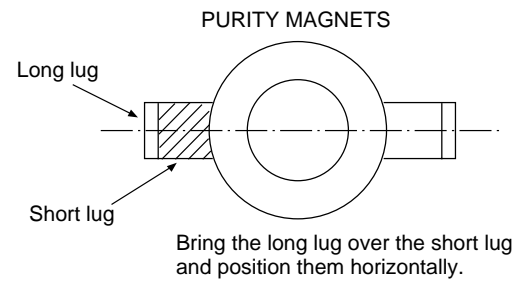


Fig. 2

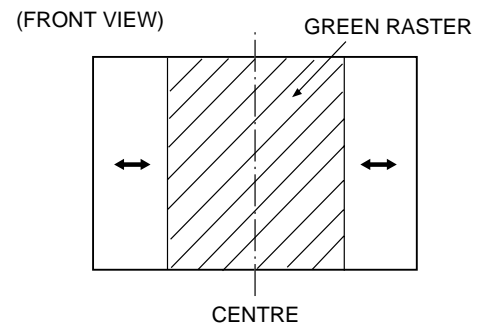


Fig. 3

CONVERGENCE ADJUSTMENTS

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

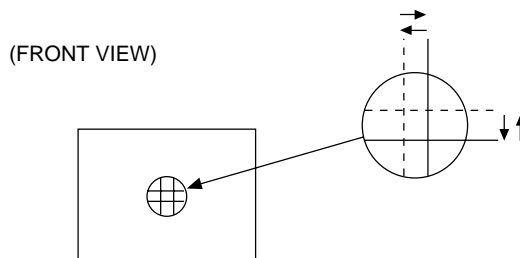


Fig. 4

DYNAMIC CONVERGENCE ADJUSTMENT

1. Using the Y_H VR on the deflection yoke, match the Y_H (CROSS). (Fig. 5 and 8)
2. Using the Y_V VR on the deflection yoke, match the Y_V . (Fig. 6 and 8)
3. Repeat the steps 1 and 2, obtain an optimum convergence.
4. 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. 7, adjust the X_v difference by using the differential coil on the top of the deflection yoke (Fig. 8) so as to minimize the X_v difference.

- After adjustment, fix the wedge at the original position.
Fasten the retainer screw of the deflection yoke.
Fix the P/C magnet with glue.

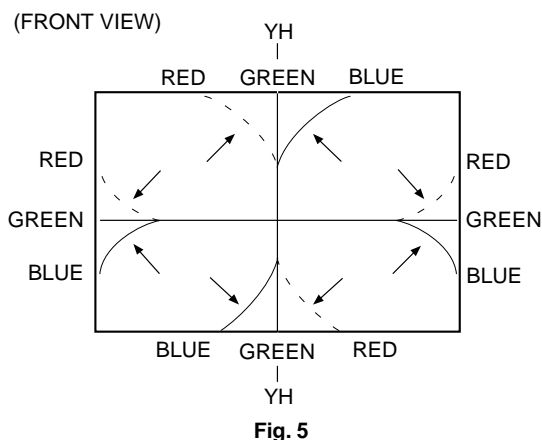


Fig. 5

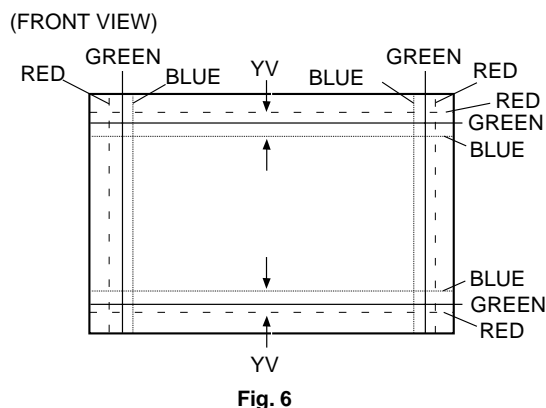


Fig. 6

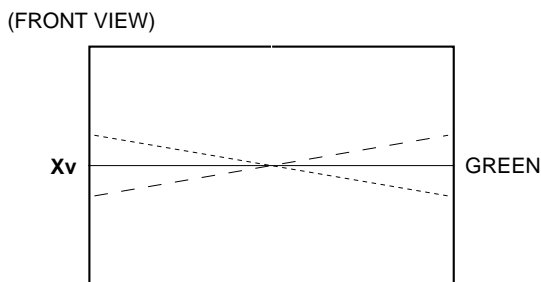


Fig. 7

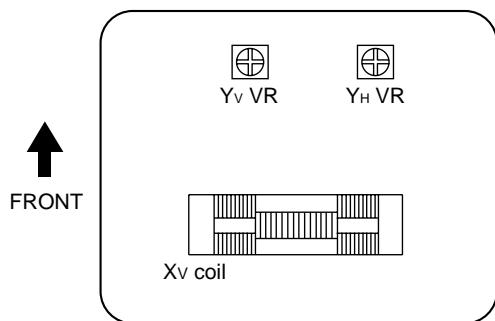


Fig. 8

PRINTED WIRING BOARD PARTS LIST [AV-2968TEE/sk]

MAIN P.W. BOARD ASS'Y (SCH-1601A-H2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC1130	M52342SP	IC	(SERVICE)	D1655	MA111-X	SI DIODE	
IC1301	TDA9181T/N1-X	IC		D1657	MA111-X	SI DIODE	
IC1401	LA78041	IC		D1701	MA111-X	SI DIODE	
IC1461	JLC1562BF-X	IC		D1702	MA3020-X	CHIP ZENER DIODE	
IC1480	UPC358G2-XE	IC		D1703	MA3036-X	CHIP ZENER DIODE	
IC1602	NJW1136GL1-W	IC		D1730	MA111-X	SI DIODE	
IC1650	AN5277	IC		D1731	MA111-X	SI DIODE	
IC1701	TDA9365N23S0874	IC		D1732	MA111-X	SI DIODE	
IC1702	AT24C08-21WS3	IC		D1733	MA111-X	SI DIODE	
IC1801	MM1492AF	IC		D1801	MA3120/M-X	Z DIODE	
IC1901	STR-F6256S-F7	IC		D1802	MA3120/M-X	Z DIODE	
IC1951	SE135N	IC		D1901	GSIB460	BRIDGE DIODE	
IC1972	L88M33T-X	IC		D1902	MTZJ33B-T2	Z DIODE	
IC1973	BA17812T	IC		D1906	MTZJ27B-T2	Z DIODE	
IC1974	BA51W12ST-V5	IC		D1907	MTZJ33B-T2	Z DIODE	
Q1101	2SC5083/L-P/-T	TRANSISTOR	H.OUT	D1908	MA3200/M-X	CHIP ZENER DIODE	
Q1102	UN2212-X	DIGI TRANSISTOR		D1909	1SS133-T2	DIODE	
Q1104	2SB709A/QR/-X	TRANSISTOR		D1911	RGP10J-5025-T3	SI DIODE	
Q1105	2SD601A/QR/-X	TRANSISTOR		D1912	RGP10J-5025-T3	SI DIODE	
Q1106	2SB709A/QR/-X	TRANSISTOR		D1913	RGP10M-5010-T3	SI DIODE	
Q1107	UN2212-X	DIGI TRANSISTOR		D1914	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Q1108	2SD601A/QR/-X	TRANSISTOR		D1915	MTZJ39B-T2	Z DIODE	
Q1109	UN2212-X	DIGI TRANSISTOR		D1916	MTZJ15B-T2	Z DIODE	
Q1110	UN2212-X	DIGI TRANSISTOR		D1917	1SS133-T2	DIODE	
Q1130	2SB709A/QR/-X	TRANSISTOR		D1919	1SS133-T2	DIODE	
Q1131	UN2212-X	DIGI TRANSISTOR		D1920	MTZJ15B-T2	Z DIODE	
Q1132	2SD601A/QR/-X	TRANSISTOR		D1950	RGP10J-5025-T3	SI DIODE	
Q1133	2SB709A/QR/-X	TRANSISTOR		D1952	ERC30-02L38	SI DIODE	
Q1134	UN2212-X	DIGI TRANSISTOR		D1953	RGP10J-5025-T3	SI DIODE	
Q1135	UN2212-X	DIGI TRANSISTOR		D1954	RU30A-F1	SI DIODE	
Q1136	2SD601A/QR/-X	TRANSISTOR		D1955	1SR35-400A-T2	SI DIODE	
Q1137	2SD601A/QR/-X	TRANSISTOR	H.OUT	D1956	31DF6N-FC5	FR DIODE	
Q1138	UN2212-X	DIGI TRANSISTOR		D1958	MTZJ5.1A-T2	Z DIODE	
Q1301	2SB709A/QR/-X	TRANSISTOR		D1960	MA111-X	SI DIODE	
Q1302	2SB709A/QR/-X	TRANSISTOR		D1964	MA3330/L-X	Z DIODE	
Q1303	UN2212-X	DIGI TRANSISTOR		D1966	MA3047/L-X	CHIP ZENER DIODE	
Q1304	2SD601A/QR/-X	TRANSISTOR		D1968	MA111-X	SI DIODE	
Q1480	2SD1408/OY/-LB	POW TRANSISTOR		D1969	MA111-X	SI DIODE	
Q1521	2SC2655/Y/-T	TRANSISTOR		D1970	MTZJ9.1B-T2	Z DIODE	
△Q1522	2SD2634-YD	TRANSISTOR		D1971	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
Q1591	2SA1208/ST/Z1-T	TRANSISTOR		C1001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1592	UN2212-X	DIGI TRANSISTOR		C1002	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q1660	2SD601A/QR/-X	TRANSISTOR		C1003	QFV71HJ-104Z	MF CAPACITOR	0.1uF 50V J
Q1661	2SD601A/QR/-X	TRANSISTOR		C1004	QETN1CM-477Z	E CAPACITOR	470uF 16V M
Q1683	2SB709A/QR/-X	TRANSISTOR		C1005	NCB31HK-222X	C CAPACITOR	2200pF 50V K
Q1684	2SB709A/QR/-X	TRANSISTOR		C1006	QETN1CM-336Z	E CAPACITOR	33uF 16V M
Q1685	DTC323TK-X	DIGI TRANSISTOR		C1007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1686	DTC323TK-X	DIGI TRANSISTOR		C1101	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1701	2SB709A/QR/-X	TRANSISTOR		C1102	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1702	2SB709A/QR/-X	TRANSISTOR		C1103	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1720	2SB709A/QR/-X	TRANSISTOR		C1104	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1801	DTC323TK-X	DIGI TRANSISTOR		C1105	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1802	DTC323TK-X	DIGI TRANSISTOR		C1106	NDC31HJ-180X	C CAPACITOR	18pF 50V J
Q1803	2SB709A/QR/-X	TRANSISTOR		C1107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1804	2SC1740S/QR/-T	TRANSISTOR		C1109	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q1860	2SD601A/QR/-X	TRANSISTOR		C1130	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1861	2SB709A/QR/-X	TRANSISTOR		C1131	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1862	2SB709A/QR/-X	TRANSISTOR		C1132	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1901	2SC3852A	SI TRANSISTOR		C1133	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q1951	2SA1013/RO/-T	SI TRANSISTOR		C1134	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1952	2SD601A/QR/-X	TRANSISTOR		C1135	QETN1EM-476Z	E CAPACITOR	47uF 25V M
Q1953	2SD601A/QR/-X	TRANSISTOR		C1136	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1954	2SD601A/QR/-X	TRANSISTOR		C1137	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1955	2SD601A/QR/-X	TRANSISTOR		C1138	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1101	1SS268-X	SI DIODE	H.OUT	C1139	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1301	MTZJ5.1B-T2	Z DIODE		C1140	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1401	RGP10J-5025-T3	SI DIODE		C1141	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1402	MTZJ75-T2	Z DIODE		C1142	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1405	1N4003-T2	SI DIODE		C1143	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D1408	MA111-X	SI DIODE		C1144	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
D1480	MTZJ4.3A-T2	Z DIODE		C1301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D1521	RH3G-F1	SI DIODE		C1302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D1522	31DF6N-FC5	FR DIODE		C1304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1523	RGP10J-5025-T3	SI DIODE		C1305	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1541	RGP10J-5025-T3	SI DIODE		C1306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D1550	MA111-X	SI DIODE		C1307	NDC31HJ-330X	C CAPACITOR	33pF 50V J
D1551	EU2-T3	SI DIODE		C1308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1553	RGP10J-5025-T3	SI DIODE		C1315	QFLC1HJ-473Z	M CAPACITOR	0.047uF 50V J
D1554	RGP10J-5025-T3	SI DIODE		C1401	QETN1HM-336Z	E CAPACITOR	33uF 50V M
D1592	MA3075/H/-X	CHIP ZENER DIODE		C1402	QCB31HK-682Z	C CAPACITOR	6800pF 50V K
D1652	MA3330/L-X	Z DIODE		C1403	QEH1VM-107Z	E CAPACITOR	100uF 35V M
D1653	MA3330/L-X	Z DIODE		C1406	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J
				C1407	QCS32HJ-560Z	C CAPACITOR	56pF 500V J
				C1411	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
				C1412	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1413	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	C1741	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1422	QEHQ1VM-108	E CAPACITOR	1000uF 35V M	C1742	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1471	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1743	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1480	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1744	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1483	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M	C1745	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1485	QETN1HM-226Z	E CAPACITOR	22uF 50V M	C1747	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1521	QETN1VM-476Z	E CAPACITOR	47uF 35V M	C1749	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1522	QFLC1HJ-332Z	M CAPACITOR	3300pF 50V J	C1751	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1523	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	C1752	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1524	QFZ0196-382	MPP CAPACITOR	3800pF 1.5kV H	C1753	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1525	QFZ0200-143	MPP CAPACITOR	0.014uF 1.5kV H	C1801	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1526	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	C1802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1527	QFZ0199-224	MPP CAPACITOR	0.22uF	C1803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1528	QFZ0199-224	MPP CAPACITOR	0.22uF	C1804	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	C1805	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1807	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1531	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	C1808	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1532	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1810	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1533	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1534	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1812	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1536	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	C1813	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1540	QFV71HJ-104Z	MF CAPACITOR	0.1uF 50V J	C1814	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1541	QETN2EM-106Z	E CAPACITOR	10uF 250V M	C1815	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1550	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1817	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1561	QFV21HJ-154Z	MF CAPACITOR	0.15uF 50V J	C1819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1566	QFZ0196-113	MPP CAPACITOR	0.011uF 1.5kV H	C1820	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1591	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1821	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1592	QETM2CM-227	E CAPACITOR	220uF 160V M	C1822	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1593	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1823	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1625	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1824	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1626	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	C1825	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1627	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	C1826	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1628	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	C1827	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1629	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1829	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1630	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1830	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1631	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1831	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1632	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1833	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C1633	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1834	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C1634	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1902	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
C1635	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1636	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1637	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1638	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1907	QEZ0633-337	E CAPACITOR	330uF
C1639	QETN1HM-107Z	E CAPACITOR	100uF 50V M	C1909	QCZ0325-102	C CAPACITOR	1000pF 2kV K
C1640	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1910	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1641	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1911	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1643	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1913	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J
C1644	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1915	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C1645	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1916	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1646	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1917	QCB32HK-181Z	C CAPACITOR	180pF 500V K
C1647	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1918	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C1648	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	C1919	QCZ0325-391	C CAPACITOR	390pF 2kV K
C1649	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	C1920	QCZ0122-471	C CAPACITOR	470pF 2kV K
C1650	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C1921	QFN31HJ-473Z	M CAPACITOR	0.047uF 50V J
C1651	QEHR1HM-107Z	E CAPACITOR	100uF 50V M	C1922	QETN2AM-226Z	E CAPACITOR	22uF 100V M
C1652	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1952	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1653	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1953	QEHQ1VM-228	E CAPACITOR	2200uF 35V M
C1654	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1955	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1655	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1956	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1656	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1957	QCB31HK-471Z	C CAPACITOR	470pF 50V K
C1662	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1958	QEHR1CM-108Z	E CAPACITOR	1000uF 16V M
C1681	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1959	QCZ0364-561	C CAPACITOR	560pF 2kV K
C1682	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1960	QEZ0203-227	E CAPACITOR	220uF 160V M
C1683	QETN1CM-336Z	E CAPACITOR	33uF 16V M	C1961	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1684	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1962	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1702	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1963	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1703	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1964	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1704	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1965	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C1706	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1966	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1707	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1968	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1709	QETN1CM-477Z	E CAPACITOR	470uF 16V M	C1970	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1710	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1972	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1974	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1712	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C1975	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1977	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1720	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1978	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1725	NCB31HK-681X	C CAPACITOR	680pF 50V K	C1980	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1729	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C1981	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1730	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1982	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1731	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1983	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1732	QETN1CM-107Z	E CAPACITOR	100uF 16V M	△C1991	QCZ9079-102	C CAPACITOR	1000pF AC250V M
C1733	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	△C1992	QCZ9079-102	C CAPACITOR	1000pF AC250V M
C1734	NCB31HK-222X	C CAPACITOR	2200pF 50V K	△C1993	QCZ9079-102	C CAPACITOR	1000pF AC250V M
C1735	NCB31HK-222X	C CAPACITOR	2200pF 50V K				
C1736	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1737	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1738	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
C1739	NFV41CJ-104X	MPPS CAPACITOR	0.1uF 16V J	R1004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1740	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R1005	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R1006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R1543	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
R1101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R1545	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R1102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1546	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R1103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	△R1547	QRZ9011-4R7	FUSI RESISTOR	4.7Ω 1/2W J
R1104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R1561	QRL029J-220	OMF RESISTOR	22Ω 2W J
R1105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1562	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J
R1106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1563	QRZ0056-103Z	COMP RESISTOR	10kΩ 1/2W K
R1107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1591	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R1108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1592	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R1109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1593	NRSA02F-332X	MG RESISTOR	3.3kΩ 1/10W F
R1111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1594	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R1113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1595	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1621	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1115	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1622	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1623	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1130	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1131	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1132	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1626	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1133	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1627	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1134	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1628	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1135	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1629	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1136	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1630	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1137	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1138	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1651	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1139	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1652	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1140	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1141	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1142	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1655	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1143	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1656	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1144	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1657	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1145	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	R1660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1146	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1661	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R1147	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1662	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1148	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R1663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1149	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1664	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1155	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1688	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1690	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1691	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1303	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1695	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1304	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1696	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1305	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1306	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1308	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1704	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1705	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1310	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1311	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1707	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1317	QRL029J-101	OMF RESISTOR	100Ω 2W J	R1708	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1401	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1709	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1405	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1406	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1712	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1408	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1410	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1411	QRG01GJ-221	OMF RESISTOR	220Ω 1W J	R1715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1412	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J	R1716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1413	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J	R1717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1414	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J	R1718	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1415	QRE121J-120Y	C RESISTOR	12Ω 1/2W J	R1719	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1416	QRE141J-225Y	C RESISTOR	2.2MΩ 1/4W J	R1720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1425	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R1721	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1722	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1723	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1480	QRE121J-681Y	C RESISTOR	680Ω 1/2W J	R1724	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1481	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1482	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1726	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1483	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R1727	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1484	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1485	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1730	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1486	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R1731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1487	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R1732	NRSA02F-393X	MG RESISTOR	39kΩ 1/10W F
R1489	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	R1733	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1490	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1734	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1491	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1735	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1492	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R1736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1493	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J	R1737	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1494	QRL039J-330	OMF RESISTOR	33Ω 3W J	R1738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1521	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1739	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1522	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1740	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1523	QRL039J-151	OMF RESISTOR	150Ω 3W J	R1741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1524	QRL039J-151	OMF RESISTOR	150Ω 3W J	R1742	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1526	QRL029J-271	OMF RESISTOR	270Ω 2W J	R1744	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R1527	QRL039J-103	OMF RESISTOR	10kΩ 3W J	R1745	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
△R1528	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J	R1746	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
△R1529	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J	R1747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1531	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1748	NRSA02J-225X	MG RESISTOR	2.2MΩ 1/10W J
△R1532	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J	R1749	NRSA02J-185X	MG RESISTOR	1.8MΩ 1/10W J
R1541	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J	R1750	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1542	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J	R1755	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R1756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L1301	QQL244K-221Z	PEAKING COIL	220uH K	
R1757	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		L1401	QQL26AK-220Z	CHOKE COIL	22uH K	
R1758	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		L1480	QQR1138-001	CHOKE COIL		
R1790	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J		L1523	QQR1243-001	LINEARITY COIL		
R1803	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		L1541	QQL244K-220Z	PEAKING COIL	22uH K	
R1804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		L1561	QQL2028-272	COIL	2.7mH	
R1805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		L1701	QQL244K-100Z	PEAKING COIL	10uH K	
R1806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		L1702	QQL244K-100Z	PEAKING COIL	10uH K	
R1807	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		L1731	QQL244J-101Z	PEAKING COIL	100uH J	
R1808	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		L1951	QQL2034-460	HEATER CHOKE	46uH	
R1809	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		L1953	QQL244J-5R6Z	COIL	5.6uH J	
R1810	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		L1954	QQL26AK-820Z	CHOKE COIL	82uH K	
R1811	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		△T1521	QQR1229-001	DRIVE TRANSF		
R1812	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		T1561	QQR1153-001	DAF TRANSF		
R1813	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		△T1901	QQS0110-001	SW TRANSF		
R1815	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		CF1103	QAX0639-001Z	C TRAP	4.500MHz	
R1818	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CF1130	QAX0642-001Z	C FILTER	4.500MHz	
R1820	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		CF1140	QAX0695-001Z	C FILTER	5.500MHz	
R1821	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CF1141	QAX0696-001Z	C FILTER	6.000MHz	
R1823	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		CF1142	QAX0697-001Z	C FILTER	6.500MHz	
R1824	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CN1001	QGF1220C2-25	CONNECTOR	FFC/FPC (1-25)	
R1826	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		CN100A	QGA2501C5-03Z	CONNECTOR	W-B (1-3)	
R1829	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		CN100C	QGA2501C5-06Z	CONNECTOR	W-B (1-6)	
R1830	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CN100D	WJQ0003-002A	E-SH C WIRE B-B		
R1831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CN100S	QGA2501C5-05Z	CONNECTOR	W-B (1-5)	
R1832	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		CN100T	QJK002-063231	SIN CR B-B WIRE		
R1833	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		CN100U	QGA2501C5-06Z	CONNECTOR	W-B (1-6)	
R1834	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		CN100W	QGA7901C1-02	CONNECTOR	W-B (1-2)	
R1835	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		CN10HV	QGZ5004C1-06	CONNECTOR	(1-6)	
R1836	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		CN1DEG	QGZ5004C1-02	CONNECTOR	(1-2)	
R1837	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		△CP1951	ICP-N75-Y	IC PROTECTOR	2.7A	
R1838	QRK126J-121X	UNF C RESISTOR	120Ω 1/2W J		△CP1952	ICP-N38-Y	IC PROTECTOR	1.5A	
R1839	QRE121J-221Y	C RESISTOR	220Ω 1/2W J		△CP1953	ICP-N38-Y	IC PROTECTOR	1.5A	
R1840	QRE121J-221Y	C RESISTOR	220Ω 1/2W J		HS1401	LC30416-003A	HEAT SINK		
R1841	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		HS1480	LC32137-001A	HEAT SINK/AL-F/		
R1842	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		HS1522	LC31215-001A	HEAT SINK/FE-P/		
R1843	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		HS1650	GG30059-001A	HEAT SINK		
R1844	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		HS1901	LC31211-002A	HEAT SINK/AL-F/		
R1845	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		HS1974	CEHT11B-002QS	HEAT SINK		
R1846	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		J1801	QNN0349-001	PIN JACK	S/V/L/R IN	
R1847	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		J1802	QNN0349-002	PIN JACK	V/L/R IN	
R1848	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		J1803	QNN0348-001	PIN JACK	L/R IN	
R1849	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		J1804	QNN0349-001	PIN JACK	V/L/R OUT	
R1880	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J		K1705	QQR1214-001Y	FERRITE BEADS		
R1881	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K1706	QQR1113-001Z	FERRITE BEADS		
R1882	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		K1901	QQR1214-001Y	FERRITE BEADS		
R1883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		K1902	QQR1214-001Y	FERRITE BEADS		
R1902	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K		K1903	QQR1214-001Y	FERRITE BEADS		
R1903	QRL039J-393	OMF RESISTOR	39kΩ 3W J		K1904	QQR1113-001Z	FERRITE BEADS		
R1904	QRE121J-221Y	C RESISTOR	220Ω 1/2W J		K1905	QQR1113-001Z	FERRITE BEADS		
R1905	QRM034J-R10	MP RESISTOR	0.1Ω 3W J		K1951	QQR1214-001Y	FERRITE BEADS		
R1906	QRE141J-1R5Y	C RESISTOR	1.5Ω 1/4W J		K1953	QQR1214-001Y	FERRITE BEADS		
R1908	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K1954	QQR1214-001Y	FERRITE BEADS		
R1911	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J		K1955	QQR1214-001Y	FERRITE BEADS		
R1912	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J		△LF1901	QQR1356-001	LINE FILTER		
△R1913	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J		△RY1901	QSK0061-001	RELAY		
R1914	QRL039J-473	OMF RESISTOR	47kΩ 3W J		SF1101	QAX0325-001	SAW FILTER		
R1915	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		SF1102	QAX0731-001	SAW FILTER		
R1916	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J		△TH1901	QAD0145-2R3	POSISTOR	2.3Ω	
R1917	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J		TU1001	QAU0185-005	TUNER		
R1952	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		X1701	QAX0737-001	CRYSTAL	12.000MHz	
R1953	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J						
R1954	QRE121J-150Y	C RESISTOR	15Ω 1/2W J						
R1955	QRG01GJ-330	OMF RESISTOR	33Ω 1W J						
R1956	QRE121J-120Y	C RESISTOR	12Ω 1/2W J						
R1957	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J						
R1958	QRL039J-820	OMF RESISTOR	82Ω 3W J						
R1959	QRE121J-820Y	C RESISTOR	82Ω 1/2W J						
R1960	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J						
R1961	QRL029J-223	OMF RESISTOR	22kΩ 2W J						
R1962	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J						
R1963	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J						
R1964	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R1965	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R1966	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J						
R1967	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R1968	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J						
R1969	QRT029J-1R5	MF RESISTOR	1.5Ω 2W J						
R1970	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J						
R1971	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J						
R1972	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J						
R1973	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J						
R1974	QRT029J-1R2	MF RESISTOR	1.2Ω 2W J						
△R1991	QRZ0057-825	C RESISTOR	8.2MΩ 1W J						
L1001	QQL244K-8R2Z	PEAKING COIL	8.2uH K						
L1002	QQL244K-8R2Z	PEAKING COIL	8.2uH K						
L1101	QQLZ014-R82	COIL	0.82uH 100mA L						
L1102	QQL244K-180Z	PEAKING COIL	18uH K						

CRT SOCKET P.W. BOARD ASS'Y (SCH-3603A-H2)

△Ref No.	Part No.	Part Name	Description	Local
Q3101	2SD601A/QR/-X	TRANSISTOR		
Q3102	2SD601A/QR/-X	TRANSISTOR		
Q3103	2SD601A/QR/-X	TRANSISTOR		
Q3104	2SD601A/QR/-X	TRANSISTOR		
Q3105	2SD601A/QR/-X	TRANSISTOR		
Q3106	2SD601A/QR/-X	TRANSISTOR		
Q3121	2SC1740S/QR/-T	TRANSISTOR		
Q3122	2SA933AS/QR/-T	TRANSISTOR		
Q3123	2SC4075/DE/YA11	POW TRANSISTOR		
Q3124	2SC1740S/QR/-T	TRANSISTOR		
Q3125	2SC4075/DE/YA11	POW TRANSISTOR		
Q3126	2SC1740S/QR/-T	TRANSISTOR		
Q3127	2SC4075/DE/YA11	POW TRANSISTOR		
Q3128	2SC1740S/QR/-T	TRANSISTOR		
Q3129	2SC3334-T	SI TRANSISTOR		
Q3130	2SA1321-T	SI TRANSISTOR		
Q3131	2SC3334-T	SI TRANSISTOR		
Q3132	2SA1321-T	SI TRANSISTOR		
Q3133	2SC3334-T	SI TRANSISTOR		

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
Q3134	2SA1321-T	SI TRANSISTOR			R3103	NRSA63J-153X	MG RESISTOR	15kΩ	1/16W J
Q3135	2SB709A/QR/-X	TRANSISTOR			R3104	NRSA63J-682X	MG RESISTOR	6.8kΩ	1/16W J
Q3204	2SC1740S/QR/-T	TRANSISTOR			R3105	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
Q3205	2SC1740S/QR/-T	TRANSISTOR			R3106	NRSA63J-272X	MG RESISTOR	2.7kΩ	1/16W J
Q3206	2SA933AS/QR/-T	TRANSISTOR			R3107	NRSA63J-682X	MG RESISTOR	6.8kΩ	1/16W J
Q3209	2SA1837	POW TRANSISTOR			R3108	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
Q3210	2SC4793	POW TRANSISTOR			R3109	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
Q3251	2SB709A/QR/-X	TRANSISTOR			R3110	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
Q3252	2SD601A/QR/-X	TRANSISTOR			R3111	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
Q3253	2SB709A/QR/-X	TRANSISTOR			R3112	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
Q3261	2SB709A/QR/-X	TRANSISTOR			R3113	NRSA63J-563X	MG RESISTOR	56kΩ	1/16W J
Q3262	2SB709A/QR/-X	TRANSISTOR			R3120	QRE121J-101Y	C RESISTOR	100Ω	1/2W J
Q3263	2SB709A/QR/-X	TRANSISTOR			R3121	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
Q3264	2SD601A/QR/-X	TRANSISTOR			R3122	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
Q3265	2SD601A/QR/-X	TRANSISTOR			R3123	QRE121J-152Y	C RESISTOR	1.5kΩ	1/2W J
Q3266	2SD601A/QR/-X	TRANSISTOR			R3124	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J
					R3125	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
D3107	MA111-X	SI DIODE			R3126	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
D3108	MA3075/H/-X	CHIP ZENER DIODE			R3127	QRE121J-152Y	C RESISTOR	1.5kΩ	1/2W J
D3109	MA3051/H/-X	Z DIODE			R3128	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J
D3110	MA111-X	SI DIODE			R3129	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
D3111	MA3051/H/-X	Z DIODE			R3130	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
D3112	MA111-X	SI DIODE			R3131	QRE121J-152Y	C RESISTOR	1.5kΩ	1/2W J
D3113	MA3051/H/-X	Z DIODE			R3132	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J
D3114	MA111-X	SI DIODE			R3133	NRSA63J-470X	MG RESISTOR	47Ω	1/16W J
D3118	1SS244-T2	SI DIODE			R3136	NRSA63J-470X	MG RESISTOR	47Ω	1/16W J
D3119	1SS244-T2	SI DIODE			R3137	NRSA63J-470X	MG RESISTOR	47Ω	1/16W J
D3120	1SS244-T2	SI DIODE			R3138	QRL029J-223	OMF RESISTOR	22kΩ	2W J
D3121	1SS244-T2	SI DIODE			R3139	QRL029J-223	OMF RESISTOR	22kΩ	2W J
D3122	1SS244-T2	SI DIODE			R3140	QRZ0107-102Z	C RESISTOR	1kΩ	1/2W K
D3123	1SS244-T2	SI DIODE			R3141	QRL029J-223	OMF RESISTOR	22kΩ	2W J
D3124	1N4003-T2	SI DIODE			R3143	QRL029J-223	OMF RESISTOR	22kΩ	2W J
D3125	1N4003-T2	SI DIODE			R3144	QRZ0107-102Z	C RESISTOR	1kΩ	1/2W K
D3126	1N4003-T2	SI DIODE			R3145	QRL029J-223	OMF RESISTOR	22kΩ	2W J
D3127	MA111-X	SI DIODE			R3146	QRL029J-223	OMF RESISTOR	22kΩ	2W J
D3131	MTZJ75-T2	Z DIODE			R3147	QRZ0107-102Z	C RESISTOR	1kΩ	1/2W K
D3132	MA3043-X	CHIP ZENER DIODE			R3148	QRE121J-124Y	C RESISTOR	120kΩ	1/2W J
D3134	1SS244-T2	SI DIODE			R3149	QRE121J-102Y	C RESISTOR	1kΩ	1/2W J
D3136	MA111-X	SI DIODE			R3151	QRE121J-124Y	C RESISTOR	120kΩ	1/2W J
D3138	MA111-X	SI DIODE			R3152	QRE121J-102Y	C RESISTOR	1kΩ	1/2W J
D3141	MTZJ30A-T2	Z DIODE			R3153	QRE121J-124Y	C RESISTOR	120kΩ	1/2W J
D3142	MTZJ30A-T2	Z DIODE			R3154	QRE121J-102Y	C RESISTOR	1kΩ	1/2W J
D3143	MTZJ30A-T2	Z DIODE			R3155	QRE121J-474Y	C RESISTOR	470kΩ	1/2W J
D3201	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3157	QRZ0107-474Z	C RESISTOR	470kΩ	1/2W K
D3202	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3159	NRSA63J-184X	MG RESISTOR	180kΩ	1/16W J
D3203	RGP10J-5025-T3	SI DIODE			R3161	QRE121J-333Y	C RESISTOR	33kΩ	1/2W J
D3204	RGP10J-5025-T3	SI DIODE			R3164	QRE121J-560Y	C RESISTOR	56Ω	1/2W J
					R3166	QRE121J-333Y	C RESISTOR	33kΩ	1/2W J
C3101	QETN1CM-477Z	E CAPACITOR	470uF	16V M	R3167	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J
C3107	QETM2EM-106	E CAPACITOR	10uF	250V M	R3168	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J
C3108	QETM2EM-476	E CAPACITOR	47uF	250V M	R3170	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J
C3110	QCZ0364-681	C CAPACITOR	680pF	2kV K	R3171	NRSA63J-681X	MG RESISTOR	680Ω	1/16W J
C3114	QCS31HJ-151Z	C CAPACITOR	150pF	50V J	R3172	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
C3115	QETN1CM-476Z	E CAPACITOR	47uF	16V M	R3173	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
C3116	NDC31HJ-561X	C CAPACITOR	560pF	50V J	R3174	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
C3117	NCB31HK-471X	C CAPACITOR	470pF	50V K	R3211	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
C3118	NCB31HK-471X	C CAPACITOR	470pF	50V K	R3212	NRSA63J-153X	MG RESISTOR	15kΩ	1/16W J
C3119	QFLC1HJ-104Z	M CAPACITOR	0.1uF	50V J	R3213	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J
C3120	QETN1HM-105Z	E CAPACITOR	1uF	50V M	R3214	NRSA63J-152X	MG RESISTOR	1.5kΩ	1/16W J
C3121	NCB31HK-102X	C CAPACITOR	1000pF	50V K	R3215	NRSA63J-680X	MG RESISTOR	68Ω	1/16W J
C3204	NDC31HJ-561X	C CAPACITOR	560pF	50V J	R3216	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J
C3205	QETN1HM-335Z	E CAPACITOR	3.3uF	50V M	△R3217	QRJ146J-100X	UNF C RESISTOR	10Ω	1/4W J
C3206	QETN1HM-106Z	E CAPACITOR	10uF	50V M	R3221	NRSA63J-470X	MG RESISTOR	47Ω	1/16W J
C3207	QCS31HJ-5R0Z	C CAPACITOR	5pF	50V J	R3222	NRSA63J-470X	MG RESISTOR	47Ω	1/16W J
C3209	QETN1CM-107Z	E CAPACITOR	100uF	16V M	R3224	NRSA63J-122X	MG RESISTOR	1.2kΩ	1/16W J
C3211	NDC31HJ-391X	C CAPACITOR	390pF	50V J	R3225	QRE121J-563Y	C RESISTOR	56kΩ	1/2W J
C3212	QCB32HK-472Z	C CAPACITOR	4700pF	500V K	R3226	QRE121J-563Y	C RESISTOR	56kΩ	1/2W J
C3213	NDC31HJ-561X	C CAPACITOR	560pF	50V J	R3227	NRSA63J-122X	MG RESISTOR	1.2kΩ	1/16W J
C3214	QETN2CM-106Z	E CAPACITOR	10uF	160V M	R3228	NRSA63J-390X	MG RESISTOR	39Ω	1/16W J
C3215	QCB32HK-472Z	C CAPACITOR	4700pF	500V K	R3229	QRE121J-2R7Y	C RESISTOR	2.7Ω	1/2W J
C3216	QETN2CM-106Z	E CAPACITOR	10uF	160V M	R3230	QRE121J-2R7Y	C RESISTOR	2.7Ω	1/2W J
C3217	QETN1AM-107Z	E CAPACITOR	100uF	10V M	R3231	NRSA63J-390X	MG RESISTOR	39Ω	1/16W J
C3218	QETN1AM-107Z	E CAPACITOR	100uF	10V M	R3232	QRE121J-121Y	C RESISTOR	120Ω	1/2W J
C3219	QETN1AM-337Z	E CAPACITOR	330uF	10V M	R3233	QRL029J-391	OMF RESISTOR	390Ω	2W J
C3220	QCS32HJ-680Z	C CAPACITOR	68pF	500V J	R3251	NDC31HJ-331X	C CAPACITOR	330pF	50V J
C3251	QENC1HM-105Z	BP E CAPACITOR	1uF	50V M	R3252	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J
C3252	NDC31HJ-151X	C CAPACITOR	150pF	50V J	R3253	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
C3253	NDC31HJ-560X	C CAPACITOR	56pF	50V J	R3254	NRSA63J-563X	MG RESISTOR	56kΩ	1/16W J
C3255	NCB31HK-104X	C CAPACITOR	0.1uF	50V K	R3255	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J
C3261	NDC31HJ-820X	C CAPACITOR	82pF	50V J	R3256	NRSA63J-681X	MG RESISTOR	680Ω	1/16W J
C3262	NDC31HJ-820X	C CAPACITOR	82pF	50V J	R3257	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
C3263	NDC31HJ-820X	C CAPACITOR	82pF	50V J	R3258	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J
C3264	QETN1AM-107Z	E CAPACITOR	100uF	10V M	R3259	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
C3265	QETN1AM-107Z	E CAPACITOR	100uF	10V M	R3260	NRSA63J-271X	MG RESISTOR	270Ω	1/16W J
C3266	QETN1AM-107Z	E CAPACITOR	100uF	10V M	R3261	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
C3267	QETN1CM-227Z	E CAPACITOR	220uF	16V M	R3262	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
					R3263	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R3101	NRSA63J-682X	MG RESISTOR	6.8kΩ	1/16W J	R3264	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J
R3102	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R3265	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R3266	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R8807	NRSA63J-181X	MG RESISTOR	180Ω	1/16W J
R3267	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R8808	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J
R3268	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	R8809	NRSA63J-331X	MG RESISTOR	330Ω	1/16W J
R3269	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R8810	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J
R3270	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R8811	NRSA63J-821X	MG RESISTOR	820Ω	1/16W J
R3271	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R8812	NRSA63J-122X	MG RESISTOR	1.2kΩ	1/16W J
R3272	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	R8813	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J
R3273	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R8815	QRE121J-271Y	C RESISTOR	270Ω	1/2W J
R3274	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R8816	QRE121J-271Y	C RESISTOR	270Ω	1/2W J
R3275	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R8817	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
					R8818	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
L3121	QQL244J-5R6Z	COIL	5.6uH	J	R8819	NRSA63J-272X	MG RESISTOR	2.7kΩ	1/16W J
L3122	QQLZ034-220	HEATER CHOKE	22uH		R8826	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
L3251	QQL244K-150Z	PEAKING COIL	15uH	K	R8830	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J
					R8831	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J
CN300T	QGA2501C5-06Z	CONNECTOR	W-B	(1-6)	△R8901	QRZ0111-474	C RESISTOR	470kΩ	1/2W K
CN300U	QJK002-063231	SIN CR B-B WIRE							
CN30SC	QGGZ0017C1-01Z	CONNECTOR	(1-1)		L8401	QQL244K-820Z	PEAKING COIL	82uH	K
CN30VM	QGA2501C5-03	CONNECTOR	W-B	(1-3)					
DL3261	CE41925-001	DELAY LINE			CN8001	QGF1220C2-25	CONNECTOR	FFC/FPC	(1-25)
DL3262	CE41925-001	DELAY LINE			CN8002	QJL001-123232	SIN CL B-B WIRE		
DL3263	CE41925-001	DELAY LINE			CN8003	QGA2501C5-04Z	CONNECTOR	W-B	(1-4)
△FR3201	QRZ9021-561	FUSI RESISTOR	560Ω	1W J	CN800A	QJB003-035433	SIN ID C-B WIRE		
HS3123	CEHP00N-001QS	HEAT SINK			CN800R	QGA2501C5-03Z	CONNECTOR	W-B	(1-3)
HS3125	CEHP00N-001QS	HEAT SINK			CN800W	CHGH0001-AB-GS	CONNECTOR ASSY		
HS3127	CEHP00N-001QS	HEAT SINK			CN80PW	QGA7901C1-02	CONNECTOR	W-B	(1-2)
HS3209	CEHP00N-001QS	HEAT SINK			△F8901	QMF51E2-4R0J4	FUSE	4A	AC250V
HS3210	CEHP00N-001QS	HEAT SINK			J8302	QNN0279-003	PIN JACK	V	IN
K3201	CE41492-001Z	CHOKE COIL			J8303	QNN0279-002	PIN JACK	L/MONO	IN
K3202	CE41492-001Z	CHOKE COIL			J8304	QNN0279-001	PIN JACK	R	IN
K3203	CE41492-001Z	CHOKE COIL			J8801	QNS0155-001	3.5 JACK	HEADPHONE	
K3204	CE41492-001Z	CHOKE COIL			△LF8901	QQR1356-001	LINE FILTER		
K3205	QQR1113-001Z	FERRITE BEADS			S8801	QSW0619-003Z	TACT SWITCH	CH+	
K3206	QQR1113-001Z	FERRITE BEADS			S8802	QSW0619-003Z	TACT SWITCH	CH-	
K3207	QQR1113-001Z	FERRITE BEADS			S8803	QSW0619-003Z	TACT SWITCH	MENU	
K3208	QQR1113-001Z	FERRITE BEADS			S8804	QSW0619-003Z	TACT SWITCH	TV/VIDEO	
△PC1901	PC123F2	PHOTO COUPLER			S8805	QSW0619-003Z	TACT SWITCH	VOL+	
SG3101	QAF0056-501Z	SURGE ABSORBER	500V	M	S8806	QSW0619-003Z	TACT SWITCH	VOL-	
SG3102	QAF0056-501Z	SURGE ABSORBER	500V	M	△S8901	QSW0750-001	PUSH SWITCH	POWER	
△SK3001	CE42670-001	CRT SOCKET			△VA8901	QAF0052-621	VARISTOR	620V	

FRONT CONTROL P.W. BOARD ASS'Y (SCH-8601A-H2)

△Ref No.	Part No.	Part Name	Description	Local
IC8481	LA6515	IC		
IC8801	GP1UM281QK	IR DETECT UNIT	38kHz	
Q8481	2SC2412K/QR/-X	TRANSISTOR		
Q8801	2SA1037AK/QR/-X	TRANSISTOR		
D8801	MA111-X	SI DIODE		
D8802	P1241-04	PHOTO CONDUCTOR		
D8803	SLR-342VR-T16	LED	POWER	
C8481	NCB21EK-224X	C CAPACITOR	0.22uF	25V K
C8482	NCB21EK-224X	C CAPACITOR	0.22uF	25V K
C8483	NCB21EK-224X	C CAPACITOR	0.22uF	25V K
C8484	NCB21EK-224X	C CAPACITOR	0.22uF	25V K
C8485	QETN1EM-476Z	E CAPACITOR	47uF	25V M
C8487	QFLC1HJ-103Z	M CAPACITOR	0.01uF	50V J
C8660	QETM1VM-108	E CAPACITOR	1000uF	35V M
C8661	QETM1VM-108	E CAPACITOR	1000uF	35V M
C8801	QETN1HM-106Z	E CAPACITOR	10uF	50V M
C8802	QETN1CM-107Z	E CAPACITOR	100uF	16V M
C8803	NCB31CK-104X	C CAPACITOR	0.1uF	16V K
C8815	QETN1CM-107Z	E CAPACITOR	100uF	16V M
△C8901	QFZ9072-224	MM CAPACITOR	0.22uF	AC250V K
R8482	NRSA63J-124X	MG RESISTOR	120kΩ	1/16W J
R8483	NRSA63J-683X	MG RESISTOR	68kΩ	1/16W J
R8484	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R8485	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R8486	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J
R8487	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J
R8488	NRSA63J-154X	MG RESISTOR	150kΩ	1/16W J
R8489	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J
R8491	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R8492	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R8495	NRSA63J-152X	MG RESISTOR	1.5kΩ	1/16W J
R8497	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R8499	QRE121J-561Y	C RESISTOR	560Ω	1/2W J
R8801	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J
R8802	NRSA63J-392X	MG RESISTOR	3.9kΩ	1/16W J
R8803	NRSA63J-682X	MG RESISTOR	6.8kΩ	1/16W J
R8805	NRSA63J-682X	MG RESISTOR	6.8kΩ	1/16W J

PRINTED WIRING BOARD PARTS LIST [AV-2969TEE/sk]

MAIN P.W. BOARD ASS'Y (SCH-1602A-H2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC1130	M52342SP	IC	(SERVICE)	D1655	MA111-X	SI DIODE	
IC1301	TDA9181T/N1-X	IC		D1657	MA111-X	SI DIODE	
IC1401	LA78041	IC		D1701	MA111-X	SI DIODE	
IC1461	JLC1562BF-X	IC		D1702	MA3020-X	CHIP ZENER DIODE	
IC1480	UPC358G2-XE	IC		D1703	MA3036-X	CHIP ZENER DIODE	
IC1602	NJW1136GL1-W	IC		D1730	MA111-X	SI DIODE	
IC1650	AN5277	IC		D1731	MA111-X	SI DIODE	
IC1701	TDA9365N23S0874	IC		D1732	MA111-X	SI DIODE	
IC1702	AT24C08-21WS3	IC		D1733	MA111-X	SI DIODE	
IC1801	MM1492AF	IC		D1801	MA3120/M-X	Z DIODE	
IC1901	STR-F6256S-F7	IC		D1802	MA3120/M-X	Z DIODE	
IC1951	SE135N	IC		D1901	GSIB460	BRIDGE DIODE	
IC1972	L88M33T-X	IC		D1902	MTZJ33B-T2	Z DIODE	
IC1973	BA17812T	IC		D1906	MTZJ27B-T2	Z DIODE	
IC1974	BA51W12ST-V5	IC		D1907	MTZJ33B-T2	Z DIODE	
Q1101	2SC5083/L-P/-T	TRANSISTOR	H.OUT	D1908	MA3200/M-X	CHIP ZENER DIODE	
Q1102	UN2212-X	DIGI TRANSISTOR		D1909	1SS133-T2	DIODE	
Q1104	2SB709A/QR/-X	TRANSISTOR		D1911	RGP10J-5025-T3	SI DIODE	
Q1105	2SD601A/QR/-X	TRANSISTOR		D1912	RGP10J-5025-T3	SI DIODE	
Q1106	2SB709A/QR/-X	TRANSISTOR		D1913	RGP10M-5010-T3	SI DIODE	
Q1107	UN2212-X	DIGI TRANSISTOR		D1914	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Q1108	2SD601A/QR/-X	TRANSISTOR		D1915	MTZJ39B-T2	Z DIODE	
Q1109	UN2212-X	DIGI TRANSISTOR		D1916	MTZJ15B-T2	Z DIODE	
Q1110	UN2212-X	DIGI TRANSISTOR		D1917	1SS133-T2	DIODE	
Q1130	2SB709A/QR/-X	TRANSISTOR		D1919	1SS133-T2	DIODE	
Q1131	UN2212-X	DIGI TRANSISTOR		D1920	MTZJ15B-T2	Z DIODE	
Q1132	2SD601A/QR/-X	TRANSISTOR		D1950	RGP10J-5025-T3	SI DIODE	
Q1133	2SB709A/QR/-X	TRANSISTOR		D1952	ERC30-02L38	SI DIODE	
Q1134	UN2212-X	DIGI TRANSISTOR		D1953	RGP10J-5025-T3	SI DIODE	
Q1135	UN2212-X	DIGI TRANSISTOR		D1954	RU30A-F1	SI DIODE	
Q1136	2SD601A/QR/-X	TRANSISTOR		D1955	1SR35-400A-T2	SI DIODE	
Q1137	2SD601A/QR/-X	TRANSISTOR	H.OUT	D1956	31DF6N-FC5	FR DIODE	
Q1138	UN2212-X	DIGI TRANSISTOR		D1958	MTZJ5.1A-T2	Z DIODE	
Q1301	2SB709A/QR/-X	TRANSISTOR		D1960	MA111-X	SI DIODE	
Q1302	2SB709A/QR/-X	TRANSISTOR		D1964	MA3330/L-X	Z DIODE	
Q1303	UN2212-X	DIGI TRANSISTOR		D1966	MA3047/L-X	CHIP ZENER DIODE	
Q1304	2SD601A/QR/-X	TRANSISTOR		D1968	MA111-X	SI DIODE	
Q1480	2SD1408/OY/-LB	POW TRANSISTOR		D1969	MA111-X	SI DIODE	
Q1521	2SC2655/Y/-T	TRANSISTOR		D1970	MTZJ9.1B-T2	Z DIODE	
△Q1522	2SD2634-YD	TRANSISTOR		D1971	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
Q1591	2SA1208/ST/Z1-T	TRANSISTOR		C1001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1592	UN2212-X	DIGI TRANSISTOR		C1002	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q1660	2SD601A/QR/-X	TRANSISTOR		C1003	QFV71HJ-104Z	MF CAPACITOR	0.1uF 50V J
Q1661	2SD601A/QR/-X	TRANSISTOR		C1004	QETN1CM-477Z	E CAPACITOR	470uF 16V M
Q1683	2SB709A/QR/-X	TRANSISTOR		C1005	NCB31HK-222X	C CAPACITOR	2200pF 50V K
Q1684	2SB709A/QR/-X	TRANSISTOR		C1006	QETN1CM-336Z	E CAPACITOR	33uF 16V M
Q1685	DTC323TK-X	DIGI TRANSISTOR		C1007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1686	DTC323TK-X	DIGI TRANSISTOR		C1101	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1701	2SB709A/QR/-X	TRANSISTOR		C1102	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1702	2SB709A/QR/-X	TRANSISTOR		C1103	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1720	2SB709A/QR/-X	TRANSISTOR		C1104	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1801	DTC323TK-X	DIGI TRANSISTOR		C1105	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1802	DTC323TK-X	DIGI TRANSISTOR		C1106	NDC31HJ-180X	C CAPACITOR	18pF 50V J
Q1803	2SB709A/QR/-X	TRANSISTOR		C1107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1804	2SC1740S/QR/-T	TRANSISTOR		C1109	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q1860	2SD601A/QR/-X	TRANSISTOR		C1130	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1861	2SB709A/QR/-X	TRANSISTOR		C1131	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1862	2SB709A/QR/-X	TRANSISTOR		C1132	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1901	2SC3852A	SI TRANSISTOR		C1133	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q1951	2SA1013/RO/-T	SI TRANSISTOR		C1134	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1952	2SD601A/QR/-X	TRANSISTOR		C1135	QETN1EM-476Z	E CAPACITOR	47uF 25V M
Q1953	2SD601A/QR/-X	TRANSISTOR		C1136	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1954	2SD601A/QR/-X	TRANSISTOR		C1137	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1955	2SD601A/QR/-X	TRANSISTOR		C1138	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1101	1SS268-X	SI DIODE	H.OUT	C1139	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1301	MTZJ5.1B-T2	Z DIODE		C1140	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1401	RGP10J-5025-T3	SI DIODE		C1141	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1402	MTZJ75-T2	Z DIODE		C1142	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1405	1N4003-T2	SI DIODE		C1143	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D1408	MA111-X	SI DIODE		C1144	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
D1480	MTZJ4.3A-T2	Z DIODE		C1301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D1521	RH3G-F1	SI DIODE		C1302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D1522	31DF6N-FC5	FR DIODE		C1304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1523	RGP10J-5025-T3	SI DIODE		C1305	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1541	RGP10J-5025-T3	SI DIODE		C1306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D1550	MA111-X	SI DIODE		C1307	NDC31HJ-330X	C CAPACITOR	33pF 50V J
D1551	EU2-T3	SI DIODE		C1308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1553	RGP10J-5025-T3	SI DIODE		C1315	QFLC1HJ-473Z	M CAPACITOR	0.047uF 50V J
D1554	RGP10J-5025-T3	SI DIODE		C1401	QETN1HM-336Z	E CAPACITOR	33uF 50V M
D1592	MA3075/H/-X	CHIP ZENER DIODE		C1402	QCB31HK-682Z	C CAPACITOR	6800pF 50V K
D1652	MA3330/L-X	Z DIODE		C1403	QEHR1VM-107Z	E CAPACITOR	100uF 35V M
D1653	MA3330/L-X	Z DIODE		C1406	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J
				C1407	QCS32HJ-560Z	C CAPACITOR	56pF 500V J
				C1411	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
				C1412	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1413	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	C1741	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1422	QEHQ1VM-108	E CAPACITOR	1000uF 35V M	C1742	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1471	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1743	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1480	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1744	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1483	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M	C1745	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1485	QETN1HM-226Z	E CAPACITOR	22uF 50V M	C1747	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1521	QETN1VM-476Z	E CAPACITOR	47uF 35V M	C1749	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1522	QFLC1HJ-332Z	M CAPACITOR	3300pF 50V J	C1751	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1523	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	C1752	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1524	QFZ0196-382	MPP CAPACITOR	3800pF 1.5kV H	C1753	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1525	QFZ0200-143	MPP CAPACITOR	0.014uF 1.5kV H	C1801	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1526	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	C1802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1527	QFZ0199-224	MPP CAPACITOR	0.22uF	C1803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1528	QFZ0199-224	MPP CAPACITOR	0.22uF	C1804	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	C1805	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1807	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1531	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	C1808	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1532	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1810	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1533	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1534	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1812	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1536	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	C1813	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1540	QFV71HJ-104Z	MF CAPACITOR	0.1uF 50V J	C1814	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1541	QETN2EM-106Z	E CAPACITOR	10uF 250V M	C1815	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1550	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1817	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1561	QFVM2AJ-154Z	MF CAPACITOR	0.15uF 100V J	C1819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1566	QFZ0196-113	MPP CAPACITOR	0.011uF 1.5kV H	C1820	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1591	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1821	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1592	QETM2CM-227	E CAPACITOR	220uF 160V M	C1822	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1593	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1823	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1625	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1824	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1626	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	C1825	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1627	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	C1826	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1628	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	C1827	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1629	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1829	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1630	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1830	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1631	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1831	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1632	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1833	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C1633	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1834	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C1634	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1902	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
C1635	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1636	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1637	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1638	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1907	QEZ0633-337	E CAPACITOR	330uF
C1639	QETN1HM-107Z	E CAPACITOR	100uF 50V M	C1909	QCZ0325-102	C CAPACITOR	1000pF 2kV K
C1640	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1910	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1641	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1911	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1643	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1913	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J
C1644	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1915	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C1645	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1916	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1646	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1917	QCB32HK-181Z	C CAPACITOR	180pF 500V K
C1647	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1918	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C1648	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	C1919	QCZ0325-391	C CAPACITOR	390pF 2kV K
C1649	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	C1920	QCZ0122-471	C CAPACITOR	470pF 2kV K
C1650	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C1921	QFN31HJ-473Z	M CAPACITOR	0.047uF 50V J
C1651	QEHR1HM-107Z	E CAPACITOR	100uF 50V M	C1922	QETN2AM-226Z	E CAPACITOR	22uF 100V M
C1652	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1952	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1653	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1953	QEHQ1VM-228	E CAPACITOR	2200uF 35V M
C1654	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1955	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1655	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1956	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1656	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1957	QCB31HK-471Z	C CAPACITOR	470pF 50V K
C1662	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1958	QEHR1CM-108Z	E CAPACITOR	1000uF 16V M
C1681	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1959	QCZ0364-561	C CAPACITOR	560pF 2kV K
C1682	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1960	QEZ0203-227	E CAPACITOR	220uF 160V M
C1683	QETN1CM-336Z	E CAPACITOR	33uF 16V M	C1961	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1684	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1962	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1702	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1963	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1703	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1964	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1704	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1965	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C1706	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1966	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1707	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1968	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1709	QETN1CM-477Z	E CAPACITOR	470uF 16V M	C1970	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1710	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1972	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1974	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1712	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C1975	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1977	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1720	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1978	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1725	NCB31HK-681X	C CAPACITOR	680pF 50V K	C1980	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1729	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C1981	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1730	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1982	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1731	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1983	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1732	QETN1CM-107Z	E CAPACITOR	100uF 16V M	△C1991	QCZ9079-102	C CAPACITOR	1000pF AC250V M
C1733	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	△C1992	QCZ9079-102	C CAPACITOR	1000pF AC250V M
C1734	NCB31HK-222X	C CAPACITOR	2200pF 50V K	△C1993	QCZ9079-102	C CAPACITOR	1000pF AC250V M
C1735	NCB31HK-222X	C CAPACITOR	2200pF 50V K				
C1736	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1737	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1738	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
C1739	NFV41CJ-104X	MPPS CAPACITOR	0.1uF 16V J	R1004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1740	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R1005	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R1006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R1543	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
R1101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R1545	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R1102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1546	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R1103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	△R1547	QRZ9011-4R7	FUSI RESISTOR	4.7Ω 1/2W J
R1104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R1561	QRL029J-220	OMF RESISTOR	22Ω 2W J
R1105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1562	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J
R1106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1563	QRZ0056-103Z	COMP RESISTOR	10kΩ 1/2W K
R1107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1591	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R1108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1592	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R1109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1593	NRSA02F-332X	MG RESISTOR	3.3kΩ 1/10W F
R1111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1594	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R1113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1595	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1621	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1115	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1622	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1623	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1130	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1131	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1132	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1626	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1133	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1627	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1134	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1628	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1135	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1629	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1136	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1630	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1137	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1138	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1651	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1139	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1652	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1140	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1141	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1142	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1655	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1143	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1656	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1144	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1657	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1145	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	R1660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1146	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1661	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R1147	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1662	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1148	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R1663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1149	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1664	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1155	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1688	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1690	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1691	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1303	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1695	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1304	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1696	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1305	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1306	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1308	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1704	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1705	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1310	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1311	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1707	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1317	QRL029J-101	OMF RESISTOR	100Ω 2W J	R1708	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1401	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1709	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1405	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1406	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1712	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1408	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1410	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1411	QRG01GJ-221	OMF RESISTOR	220Ω 1W J	R1715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1412	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J	R1716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1413	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J	R1717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1414	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J	R1718	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1415	QRE121J-120Y	C RESISTOR	12Ω 1/2W J	R1719	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1416	QRE141J-225Y	C RESISTOR	2.2MΩ 1/4W J	R1720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1425	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R1721	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1722	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1723	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1480	QRE121J-681Y	C RESISTOR	680Ω 1/2W J	R1724	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1481	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1482	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1726	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1483	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R1727	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1484	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1485	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1730	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1486	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R1731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1487	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R1732	NRSA02F-393X	MG RESISTOR	39kΩ 1/10W F
R1489	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	R1733	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1490	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1734	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1491	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1735	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1492	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R1736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1493	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J	R1737	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1494	QRL039J-330	OMF RESISTOR	33Ω 3W J	R1738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1521	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1739	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1522	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1740	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1523	QRL039J-151	OMF RESISTOR	150Ω 3W J	R1741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1524	QRL039J-151	OMF RESISTOR	150Ω 3W J	R1742	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1526	QRL029J-271	OMF RESISTOR	270Ω 2W J	R1744	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R1527	QRL039J-103	OMF RESISTOR	10kΩ 3W J	R1745	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
△R1528	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J	R1746	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
△R1529	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J	R1747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1531	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1748	NRSA02J-225X	MG RESISTOR	2.2MΩ 1/10W J
△R1532	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J	R1749	NRSA02J-185X	MG RESISTOR	1.8MΩ 1/10W J
R1541	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J	R1750	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1542	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J	R1755	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R1756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L1301	QQL244K-221Z	PEAKING COIL	220uH K	
R1757	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		L1401	QQL26AK-220Z	CHOKE COIL	22uH K	
R1758	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		L1480	QQR1138-001	CHOKE COIL		
R1790	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J		L1523	QQR1243-001	LINEARITY COIL		
R1803	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		L1541	QQL244K-220Z	PEAKING COIL	22uH K	
R1804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		L1561	QQL2028-272	COIL	2.7mH	
R1805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		L1701	QQL244K-100Z	PEAKING COIL	10uH K	
R1806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		L1702	QQL244K-100Z	PEAKING COIL	10uH K	
R1807	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		L1731	QQL244J-101Z	PEAKING COIL	100uH J	
R1808	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		L1951	QQL2034-460	HEATER CHOKE	46uH	
R1809	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		L1953	QQL244J-5R6Z	COIL	5.6uH J	
R1810	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		L1954	QQL26AK-820Z	CHOKE COIL	82uH K	
R1811	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		△T1521	QQR1229-001	DRIVE TRANSF		
R1812	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		T1561	QQR1153-001	DAF TRANSF		
R1813	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		△T1901	QQS0110-001	SW TRANSF		
R1815	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		CF1103	QAX0639-001Z	C TRAP	4.500MHz	
R1818	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CF1130	QAX0642-001Z	C FILTER	4.500MHz	
R1820	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		CF1140	QAX0695-001Z	C FILTER	5.500MHz	
R1821	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CF1141	QAX0696-001Z	C FILTER	6.000MHz	
R1823	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		CF1142	QAX0697-001Z	C FILTER	6.500MHz	
R1824	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CN1001	QGF1220C2-25	CONNECTOR	FFC/FPC (1-25)	
R1826	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		CN100A	QGA2501C5-03Z	CONNECTOR	W-B (1-3)	
R1829	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		CN100C	QGA2501C5-06Z	CONNECTOR	W-B (1-6)	
R1830	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CN100D	WJQ0003-002A	E-SH C WIRE B-B		
R1831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CN100S	QGA2501C5-05Z	CONNECTOR	W-B (1-5)	
R1832	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		CN100T	QJK002-063231	SIN CR B-B WIRE		
R1833	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		CN100U	QGA2501C5-06Z	CONNECTOR	W-B (1-6)	
R1834	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		CN100W	QGA7901C1-02	CONNECTOR	W-B (1-2)	
R1835	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		CN10HV	QGG5004C1-06	CONNECTOR	(1-6)	
R1836	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		CN1DEG	QGG5004C1-02	CONNECTOR	(1-2)	
R1837	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		△CP1951	ICP-N75-Y	IC PROTECTOR	2.7A	
R1838	QRK126J-121X	UNF C RESISTOR	120Ω 1/2W J		△CP1952	ICP-N38-Y	IC PROTECTOR	1.5A	
R1839	QRE121J-221Y	C RESISTOR	220Ω 1/2W J		△CP1953	ICP-N38-Y	IC PROTECTOR	1.5A	
R1840	QRE121J-221Y	C RESISTOR	220Ω 1/2W J		HS1401	LC30416-003A	HEAT SINK		
R1841	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		HS1480	LC32137-001A	HEAT SINK/AL-F/		
R1842	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		HS1522	LC31215-001A	HEAT SINK/FE-P/		
R1843	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		HS1650	GG30059-001A	HEAT SINK		
R1844	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		HS1901	LC31211-002A	HEAT SINK/AL-F/		
R1845	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		HS1974	CEHT11B-002QS	HEAT SINK		
R1846	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		J1801	QNN0349-001	PIN JACK	S/V/L/R IN	
R1847	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		J1802	QNN0349-002	PIN JACK	V/L/R IN	
R1848	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		J1803	QNN0348-001	PIN JACK	L/R IN	
R1849	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		J1804	QNN0349-001	PIN JACK	V/L/R OUT	
R1880	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J		K1705	QQR1214-001Y	FERRITE BEADS		
R1881	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K1706	QQR1113-001Z	FERRITE BEADS		
R1882	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		K1901	QQR1214-001Y	FERRITE BEADS		
R1883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		K1902	QQR1214-001Y	FERRITE BEADS		
R1902	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K		K1903	QQR1214-001Y	FERRITE BEADS		
R1903	QRL039J-393	OMF RESISTOR	39kΩ 3W J		K1904	QQR1113-001Z	FERRITE BEADS		
R1904	QRE121J-221Y	C RESISTOR	220Ω 1/2W J		K1905	QQR1113-001Z	FERRITE BEADS		
R1905	QRM034J-R10	MP RESISTOR	0.1Ω 3W J		K1951	QQR1214-001Y	FERRITE BEADS		
R1906	QRE141J-1R5Y	C RESISTOR	1.5Ω 1/4W J		K1953	QQR1214-001Y	FERRITE BEADS		
R1908	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K1954	QQR1214-001Y	FERRITE BEADS		
R1911	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J		K1955	QQR1214-001Y	FERRITE BEADS		
R1912	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J		△LF1901	QQR1356-001	LINE FILTER		
△R1913	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J		△PC1901	PC123F2	PHOTO COUPLER		
R1914	QRL039J-473	OMF RESISTOR	47kΩ 3W J		△RY1901	QSK0061-001	RELAY		
R1915	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		SF1101	QAX0325-001	SAW FILTER		
R1916	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J		SF1102	QAX0731-001	SAW FILTER		
R1951	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J		△TH1901	QAD0145-2R3	POSISTOR	2.3Ω	
R1952	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		TU1001	QAU0185-005	TUNER		
R1953	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J		X1701	QAX0737-001	CRYSTAL	12.000MHz	
R1954	QRE121J-150Y	C RESISTOR	15Ω 1/2W J						
R1955	QRG01GJ-330	OMF RESISTOR	33Ω 1W J						
R1956	QRE121J-120Y	C RESISTOR	12Ω 1/2W J						
R1957	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J						
R1958	QRL039J-820	OMF RESISTOR	82Ω 3W J						
R1959	QRE121J-820Y	C RESISTOR	82Ω 1/2W J						
R1960	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J						
R1961	QRL029J-223	OMF RESISTOR	22kΩ 2W J						
R1962	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J						
R1963	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J						
R1964	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R1965	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R1966	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J						
R1967	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R1968	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J						
R1969	QRT029J-1R5	MF RESISTOR	1.5Ω 2W J						
R1970	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J						
R1971	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J						
R1972	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J						
R1973	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J						
R1974	QRT029J-1R2	MF RESISTOR	1.2Ω 2W J						
△R1991	QRZ0057-825	C RESISTOR	8.2MΩ 1W J						
L1001	QQL244K-8R2Z	PEAKING COIL	8.2uH K						
L1002	QQL244K-8R2Z	PEAKING COIL	8.2uH K						
L1101	QQLZ014-R82	COIL	0.82uH 100mA L						
L1102	QQL244K-180Z	PEAKING COIL	18uH K						

CRT SOCKET P.W. BOARD ASS'Y (SCH-3601A-H2)

△Ref No.	Part No.	Part Name	Description	Local
Q3101	2SC3311A/QR/	TRANSISTOR		
Q3102	2SC3311A/QR/	TRANSISTOR		
Q3103	2SC3311A/QR/	TRANSISTOR		
Q3104	2SC3311A/QR/	TRANSISTOR		
Q3105	2SC3311A/QR/	TRANSISTOR		
Q3106	2SC3311A/QR/	TRANSISTOR		
Q3121	2SC3311A/QR/	TRANSISTOR		
Q3122	2SA1309A/QR/	TRANSISTOR		
Q3123	2SC4075/DE/YA11	POW TRANSISTOR		
Q3124	2SC3311A/QR/	TRANSISTOR		
Q3125	2SC4075/DE/YA11	POW TRANSISTOR		
Q3126	2SC3311A/QR/	TRANSISTOR		
Q3127	2SC4075/DE/YA11	POW TRANSISTOR		
Q3128	2SC3311A/QR/	TRANSISTOR		
Q3129	2SC3334-T	SI TRANSISTOR		
Q3130	2SA1321-T	SI TRANSISTOR		
Q3131	2SC3334-T	SI TRANSISTOR		
Q3132	2SA1321-T	SI TRANSISTOR		

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
Q3133	2SC3334-T	SI TRANSISTOR		R3102	QRE142J-102	C RESISTOR	1kΩ 1/4W J
Q3134	2SA1321-T	SI TRANSISTOR		R3103	QRE142J-153	C RESISTOR	15kΩ 1/4W J
Q3135	2SA1309A/QR/	TRANSISTOR		R3104	QRE142J-682	C RESISTOR	6.8kΩ 1/4W J
Q3204	2SC3311A/QR/	TRANSISTOR		R3105	QRE142J-102	C RESISTOR	1kΩ 1/4W J
Q3205	2SC3311A/QR/	TRANSISTOR		R3106	QRE142J-272	C RESISTOR	2.7kΩ 1/4W J
Q3206	2SA1309A/QR/	TRANSISTOR		R3107	QRE142J-682	C RESISTOR	6.8kΩ 1/4W J
Q3209	2SA1837	POW TRANSISTOR		R3108	QRE142J-102	C RESISTOR	1kΩ 1/4W J
Q3210	2SC4793	POW TRANSISTOR		R3109	QRE142J-562	C RESISTOR	5.6kΩ 1/4W J
Q3251	2SA1309A/QR/	TRANSISTOR		R3110	QRE142J-101	C RESISTOR	100Ω 1/4W J
Q3252	2SC3311A/QR/	TRANSISTOR		R3111	QRE142J-101	C RESISTOR	100Ω 1/4W J
Q3253	2SA1309A/QR/	TRANSISTOR		R3112	QRE142J-101	C RESISTOR	100Ω 1/4W J
Q3261	2SA1309A/QR/	TRANSISTOR		R3113	QRE142J-563	C RESISTOR	56kΩ 1/4W J
Q3262	2SA1309A/QR/	TRANSISTOR		R3120	QRE122J-101	C RESISTOR	100Ω 1/2W J
Q3263	2SA1309A/QR/	TRANSISTOR		R3121	QRE142J-101	C RESISTOR	100Ω 1/4W J
Q3264	2SC3311A/QR/	TRANSISTOR		R3122	QRE142J-101	C RESISTOR	100Ω 1/4W J
Q3265	2SC3311A/QR/	TRANSISTOR		R3123	QRE122J-152	C RESISTOR	1.5kΩ 1/2W J
Q3266	2SC3311A/QR/	TRANSISTOR		R3124	QRE142J-221	C RESISTOR	220Ω 1/4W J
				R3125	QRE142J-101	C RESISTOR	100Ω 1/4W J
D3107	MA165	SI DIODE		R3126	QRE142J-101	C RESISTOR	100Ω 1/4W J
D3108	MA4075/H/	Z DIODE		R3127	QRE122J-152	C RESISTOR	1.5kΩ 1/2W J
D3109	MA4051/H/	Z DIODE		R3128	QRE142J-221	C RESISTOR	220Ω 1/4W J
D3110	MA165	SI DIODE		R3129	QRE142J-101	C RESISTOR	100Ω 1/4W J
D3111	MA4051/H/	Z DIODE		R3130	QRE142J-101	C RESISTOR	100Ω 1/4W J
D3112	MA165	SI DIODE		R3131	QRE122J-152	C RESISTOR	1.5kΩ 1/2W J
D3113	MA4051/H/	Z DIODE		R3132	QRE142J-221	C RESISTOR	220Ω 1/4W J
D3114	MA165	SI DIODE		R3133	QRE142J-470	C RESISTOR	47Ω 1/4W J
D3118	1SS244-T2	SI DIODE		R3136	QRE142J-470	C RESISTOR	47Ω 1/4W J
D3119	1SS244-T2	SI DIODE		R3137	QRE142J-470	C RESISTOR	47Ω 1/4W J
D3120	1SS244-T2	SI DIODE		R3138	QRL029J-223	OMF RESISTOR	22kΩ 2W J
D3121	1SS244-T2	SI DIODE		R3139	QRL029J-223	OMF RESISTOR	22kΩ 2W J
D3122	1SS244-T2	SI DIODE		R3140	QRZ0111-102	C RESISTOR	1kΩ 1/2W K
D3123	1SS244-T2	SI DIODE		R3141	QRL029J-223	OMF RESISTOR	22kΩ 2W J
D3124	1N4003-T2	SI DIODE		R3143	QRL029J-223	OMF RESISTOR	22kΩ 2W J
D3125	1N4003-T2	SI DIODE		R3144	QRZ0111-102	C RESISTOR	1kΩ 1/2W K
D3126	1N4003-T2	SI DIODE		R3145	QRL029J-223	OMF RESISTOR	22kΩ 2W J
D3127	MA165	SI DIODE		R3146	QRL029J-223	OMF RESISTOR	22kΩ 2W J
D3131	MTZJ75-T2	Z DIODE		R3147	QRZ0111-102	C RESISTOR	1kΩ 1/2W K
D3132	MA4043	Z DIODE		R3148	QRE122J-124	C RESISTOR	120kΩ 1/2W J
D3134	1SS244-T2	SI DIODE		R3149	QRE122J-102	C RESISTOR	1kΩ 1/2W J
D3136	MA165	SI DIODE		R3151	QRE122J-124	C RESISTOR	120kΩ 1/2W J
D3138	MA165	SI DIODE		R3152	QRE122J-102	C RESISTOR	1kΩ 1/2W J
D3141	MTZJ30A-T2	Z DIODE		R3153	QRE122J-124	C RESISTOR	120kΩ 1/2W J
D3142	MTZJ30A-T2	Z DIODE		R3154	QRE122J-102	C RESISTOR	1kΩ 1/2W J
D3143	MTZJ30A-T2	Z DIODE		R3155	QRE122J-474	C RESISTOR	470kΩ 1/2W J
D3201	CH41005-H-05C	FORMING BUS WIR		R3157	QRZ0111-474	C RESISTOR	470kΩ 1/2W K
D3202	CH41005-H-05C	FORMING BUS WIR		R3159	QRE142J-184	C RESISTOR	180kΩ 1/4W J
D3203	RGP10J-5025-T3	SI DIODE		R3161	QRE122J-333	C RESISTOR	33kΩ 1/2W J
D3204	RGP10J-5025-T3	SI DIODE		R3162	CH41005-H-05C	FORMING BUS WIR	
				R3163	CH41005-H-05C	FORMING BUS WIR	
C3101	QETM1CM-477	E CAPACITOR	470uF 16V M	R3164	QRE122J-560	C RESISTOR	56Ω 1/2W J
C3107	QETM2EM-106	E CAPACITOR	10uF 250V M	R3166	QRE122J-333	C RESISTOR	33kΩ 1/2W J
C3108	QETM2EM-476	E CAPACITOR	47uF 250V M	R3167	QRE142J-222	C RESISTOR	2.2kΩ 1/4W J
C3110	QCZ0364-681	C CAPACITOR	680pF 2kV K	R3168	QRE142J-103	C RESISTOR	10kΩ 1/4W J
C3114	QCS31HJ-151	C CAPACITOR	150pF 50V J	R3170	QRE142J-332	C RESISTOR	3.3kΩ 1/4W J
C3115	QETM1CM-476	E CAPACITOR	47uF 16V M	R3171	QRE142J-681	C RESISTOR	680Ω 1/4W J
C3116	QCS31HJ-561	C CAPACITOR	560pF 50V J	R3172	CH41005-H-05C	FORMING BUS WIR	
C3117	QCB31HK-471	C CAPACITOR	470pF 50V K	R3173	CH41005-H-05C	FORMING BUS WIR	
C3118	QCB31HK-471	C CAPACITOR	470pF 50V K	R3174	CH41005-H-05C	FORMING BUS WIR	
C3119	QFLB1HJ-104	M CAPACITOR	0.1uF 50V J	R3211	CH41005-H-05C	FORMING BUS WIR	
C3120	QETM1HM-105	E CAPACITOR	1uF 50V M	R3212	QRE142J-153	C RESISTOR	15kΩ 1/4W J
C3121	QCB31HK-102	C CAPACITOR	1000pF 50V K	R3213	QRE142J-222	C RESISTOR	2.2kΩ 1/4W J
C3204	QCS31HJ-561	C CAPACITOR	560pF 50V J	R3214	QRE142J-152	C RESISTOR	1.5kΩ 1/4W J
C3205	QETM1HM-335	E CAPACITOR	3.3uF 50V M	R3215	QRE142J-680	C RESISTOR	68Ω 1/4W J
C3206	QETM1HM-106	E CAPACITOR	10uF 50V M	R3216	QRE142J-221	C RESISTOR	220Ω 1/4W J
C3207	QCS31HJ-5R0	C CAPACITOR	5pF 50V J	△R3217	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J
C3209	QETM1CM-107	E CAPACITOR	100uF 16V M	R3221	QRE142J-470	C RESISTOR	47Ω 1/4W J
C3211	QCS31HJ-391	C CAPACITOR	390pF 50V J	R3222	QRE142J-470	C RESISTOR	47Ω 1/4W J
C3212	QCB32HK-472	C CAPACITOR	4700pF 500V K	R3224	QRE142J-122	C RESISTOR	1.2kΩ 1/4W J
C3213	QCS31HJ-561	C CAPACITOR	560pF 50V J	R3225	QRE122J-563	C RESISTOR	56kΩ 1/2W J
C3214	QETM2CM-106	E CAPACITOR	10uF 160V M	R3226	QRE122J-563	C RESISTOR	56kΩ 1/2W J
C3215	QCB32HK-472	C CAPACITOR	4700pF 500V K	R3227	QRE142J-122	C RESISTOR	1.2kΩ 1/4W J
C3216	QETM2CM-106	E CAPACITOR	10uF 160V M	R3228	QRE142J-390	C RESISTOR	39Ω 1/4W J
C3217	QETM1AM-107	E CAPACITOR	100uF 10V M	R3229	QRE122J-2R7	C RESISTOR	2.7Ω 1/2W J
C3218	QETM1AM-107	E CAPACITOR	100uF 10V M	R3230	QRE122J-2R7	C RESISTOR	2.7Ω 1/2W J
C3219	QETM1AM-337	E CAPACITOR	330uF 10V M	R3231	QRE142J-390	C RESISTOR	39Ω 1/4W J
C3220	QCS32HJ-680	C CAPACITOR	68pF 500V J	R3232	QRE122J-121	C RESISTOR	120Ω 1/2W J
C3251	QENB1HM-105	BP E CAPACITOR	1uF 50V M	R3233	QRL029J-391	OMF RESISTOR	390Ω 2W J
C3252	QCS31HJ-151	C CAPACITOR	150pF 50V J	R3251	QCS31HJ-331	C CAPACITOR	330pF 50V J
C3253	QDC31HJ-560	C CAPACITOR	56pF 50V J	R3252	QRE142J-222	C RESISTOR	2.2kΩ 1/4W J
C3255	QFLB1HJ-104	M CAPACITOR	0.1uF 50V J	R3253	QRE142J-101	C RESISTOR	100Ω 1/4W J
C3261	QDC31HJ-820	C CAPACITOR	82pF 50V J	R3254	QRE142J-563	C RESISTOR	56kΩ 1/4W J
C3262	QDC31HJ-820	C CAPACITOR	82pF 50V J	R3255	QRE142J-223	C RESISTOR	22kΩ 1/4W J
C3263	QDC31HJ-820	C CAPACITOR	82pF 50V J	R3256	QRE142J-681	C RESISTOR	680Ω 1/4W J
C3264	QETM1AM-107	E CAPACITOR	100uF 10V M	R3257	QRE142J-102	C RESISTOR	1kΩ 1/4W J
C3265	QETM1AM-107	E CAPACITOR	100uF 10V M	R3258	QRE142J-182	C RESISTOR	1.8kΩ 1/4W J
C3266	QETM1AM-107	E CAPACITOR	100uF 10V M	R3259	QRE142J-102	C RESISTOR	1kΩ 1/4W J
C3267	QETM1CM-227	E CAPACITOR	220uF 16V M	R3260	QRE142J-271	C RESISTOR	270Ω 1/4W J
				R3261	QRE142J-101	C RESISTOR	100Ω 1/4W J
				R3262	QRE142J-101	C RESISTOR	100Ω 1/4W J
R3101	QRE142J-682	C RESISTOR	6.8kΩ 1/4W J				

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R3263	QRE142J-101	C RESISTOR	100Ω	1/4W J	C8485	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
R3264	QRE142J-222	C RESISTOR	2.2kΩ	1/4W J	C8487	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	
R3265	QRE142J-102	C RESISTOR	1kΩ	1/4W J	C8660	QETM1VM-108	E CAPACITOR	1000uF 35V M	
R3266	QRE142J-103	C RESISTOR	10kΩ	1/4W J	C8661	QETM1VM-108	E CAPACITOR	1000uF 35V M	
R3267	QRE142J-102	C RESISTOR	1kΩ	1/4W J	C8801	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
R3268	QRE142J-222	C RESISTOR	2.2kΩ	1/4W J	C8802	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
R3269	QRE142J-102	C RESISTOR	1kΩ	1/4W J	C8803	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R3270	QRE142J-103	C RESISTOR	10kΩ	1/4W J	C8815	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
R3271	QRE142J-102	C RESISTOR	1kΩ	1/4W J	△C8901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	
R3272	QRE142J-222	C RESISTOR	2.2kΩ	1/4W J	R8482	NRSA63J-124X	MG RESISTOR	120kΩ	1/16W J
R3273	QRE142J-102	C RESISTOR	1kΩ	1/4W J	R8483	NRSA63J-683X	MG RESISTOR	68kΩ	1/16W J
R3274	QRE142J-103	C RESISTOR	10kΩ	1/4W J	R8484	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R3275	QRE142J-102	C RESISTOR	1kΩ	1/4W J	R8485	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
L3121	QQL244J-5R6Z	COIL	5.6uH	J	R8486	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J
L3122	QQLZ034-220	HEATER CHOKE	22uH		R8487	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J
L3123	CH41005-H-05C	FORMING BUS WIR			R8488	NRSA63J-154X	MG RESISTOR	150kΩ	1/16W J
L3124	CH41005-H-05C	FORMING BUS WIR			R8489	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J
L3125	CH41005-H-05C	FORMING BUS WIR			R8491	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
L3251	QQL242K-150	PEAKING COIL	15uH	K	R8492	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
CN300T	QGA2501C5-06	CONNECTOR	W-B	(1-6)	R8495	NRSA63J-152X	MG RESISTOR	1.5kΩ	1/16W J
CN300U	QJK002-063231	SIN CR B-B WIRE			R8497	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
CN30VM	QGA2501C1-03	CONNECTOR	W-B	(1-3)	R8499	QRE121J-561Y	C RESISTOR	560Ω	1/2W J
DL3261	CE41925-001	DELAY LINE			R8801	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J
DL3262	CE41925-001	DELAY LINE			R8802	NRSA63J-392X	MG RESISTOR	3.9kΩ	1/16W J
DL3263	CE41925-001	DELAY LINE			R8803	NRSA63J-682X	MG RESISTOR	6.8kΩ	1/16W J
△FR3201	QRZ9021-561	FUSI RESISTOR	560Ω	1W J	R8805	NRSA63J-682X	MG RESISTOR	6.8kΩ	1/16W J
HS3123	CEHP00N-001QS	HEAT SINK			R8807	NRSA63J-181X	MG RESISTOR	180Ω	1/16W J
HS3125	CEHP00N-001QS	HEAT SINK			R8808	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J
HS3127	CEHP00N-001QS	HEAT SINK			R8809	NRSA63J-331X	MG RESISTOR	330Ω	1/16W J
HS3209	CEHP00N-001QS	HEAT SINK			R8810	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J
HS3210	CEHP00N-001QS	HEAT SINK			R8811	NRSA63J-821X	MG RESISTOR	820Ω	1/16W J
K3201	CE41492-001Z	CHOKE COIL			R8812	NRSA63J-122X	MG RESISTOR	1.2kΩ	1/16W J
K3202	CE41492-001Z	CHOKE COIL			R8813	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J
K3203	CE41492-001Z	CHOKE COIL			R8815	QRE121J-271Y	C RESISTOR	270Ω	1/2W J
K3204	CE41492-001Z	CHOKE COIL			R8816	QRE121J-271Y	C RESISTOR	270Ω	1/2W J
K3205	QQR1113-001Z	FERRITE BEADS			R8817	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
K3206	QQR1113-001Z	FERRITE BEADS			R8818	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
K3207	QQR1113-001Z	FERRITE BEADS			R8819	NRSA63J-272X	MG RESISTOR	2.7kΩ	1/16W J
K3208	QQR1113-001Z	FERRITE BEADS			R8826	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
SG3101	QAF0056-501Z	SURGE ABSORBER	500V	M	R8830	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J
SG3102	QAF0056-501Z	SURGE ABSORBER	500V	M	R8831	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J
SG3104	QAF0056-501Z	SURGE ABSORBER	500V	M	△R8901	QRZ0111-474	C RESISTOR	470kΩ	1/2W K
△SK3001	CE42670-001	CRT SOCKET			L8401	QQL244K-820Z	PEAKING COIL	82uH	K

FRONT CONTROL P.W. BOARD ASS'Y (SCH-8602A-H2)

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
IC8481	LA6515	IC			CN8001	QGF1220C2-25	CONNECTOR	FFC/FPC (1-25)	
IC8801	GP1UM281QK	IR DETECT UNIT	38kHz		CN8002	QJL001-123232	SIN CL B-B WIRE		
Q8481	2SC2412K/QR/-X	TRANSISTOR			CN8003	QGA2501C5-04Z	CONNECTOR	W-B (1-4)	
Q8801	2SA1037AK/QR/-X	TRANSISTOR			CN800A	QJB003-035433	SIN ID C-B WIRE		
D8801	MA111-X	SI DIODE			CN800R	QGA2501C5-03Z	CONNECTOR	W-B (1-3)	
D8802	P1241-04	PHOTO CONDUCTOR			CN800W	CHGH0001-AB-GS	CONNECTOR ASSY		
D8803	SLR-342VR-T16	LED	POWER		CN80PW	QGA7901C1-02	CONNECTOR	W-B (1-2)	
C8481	NCB21EK-224X	C CAPACITOR	0.22uF	25V K	△F8901	QMF51E2-4R0J4	FUSE	4A AC250V	
C8482	NCB21EK-224X	C CAPACITOR	0.22uF	25V K	J8302	QNN0279-003	PIN JACK	V IN	
C8483	NCB21EK-224X	C CAPACITOR	0.22uF	25V K	J8303	QNN0279-002	PIN JACK	L/MONO IN	
C8484	NCB21EK-224X	C CAPACITOR	0.22uF	25V K	J8304	QNN0279-001	PIN JACK	R IN	
					J8801	QNS0155-001	3.5 JACK	HEADPHONE	
					△LF8901	QQR1356-001	LINE FILTER		
					S8801	QSW0619-003Z	TACT SWITCH	CH+	
					S8802	QSW0619-003Z	TACT SWITCH	CH-	
					S8803	QSW0619-003Z	TACT SWITCH	MENU	
					S8804	QSW0619-003Z	TACT SWITCH	TV/VIDEO	
					S8805	QSW0619-003Z	TACT SWITCH	VOL+	
					S8806	QSW0619-003Z	TACT SWITCH	VOL-	
					△S8901	QSW0750-001	PUSH SWITCH	POWER	
					△VA8901	QAF0052-621	VARIATOR	620V	

JVC

VICTOR COMPANY OF JAPAN, LIMITED


AV & MULTIMEDIA COMPANY VIDEO DISPLAY CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.52062C)

AV-29LS2 AV-29LX2 AV-29LX2 /A AV-2968TEE 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 20k Ω /V
- (4) Oscilloscope sweeping time : H \Rightarrow 20 μ S/div
: V \Rightarrow 5mS/div
: Others \Rightarrow Sweeping time is specified
- (5) Voltage values : All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3. INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R1209 \rightarrow R209

4. INDICATIONS ON THE CIRCUIT DIAGRAM

(1) Resistors

• Resistance value

- No unit : [Ω]
- k : [k Ω]
- M : [M Ω]

• Rated allowable power

- No indication : 1/16 [W]
- Others : As specified

• Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflammable resistor
- FR : Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2) Capacitors

• Capacitance value

- 1 or higher : [pF]
- less than 1 : [μ F]

• Withstand voltage

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

* Electrolytic Capacitors

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

• Type

- No indication : Ceramic capacitor
- MY : Mylar capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

(3) Coils



- No unit : [μ H]
- Others : As specified

(4) Power Supply



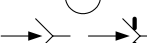
-  : B1
-  : B2(12V)
-  : 9V
-  : 5V

* Respective voltage values are indicated





(5) Test point

-  : Test point
-  : Only test point display



(6) Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

(7) Ground symbol

-  : LIVE side ground
-  : ISOLATED(NEUTRAL) side ground
-  : EARTH ground
-  : DIGITAL ground

5. NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2) Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time with a measuring apparatus (oscilloscope, etc.). If the above precaution is not respected , a fuse or any parts will be broken.

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

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PATTERN DIAGRAMS

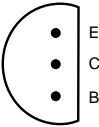
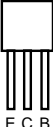
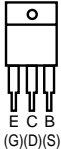
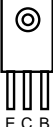

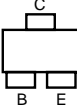
MAIN PWB PATTERN 2-17

CRT SOCKET PWB PATTERN 2-19

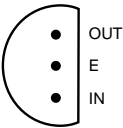
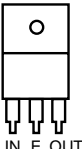
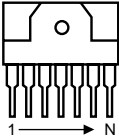
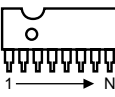
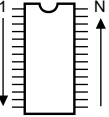
FRONT CONTROL PWB PATTERN 2-20

SEMICONDUCTOR SHAPES

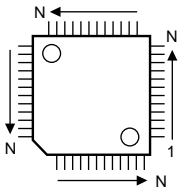
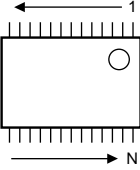
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

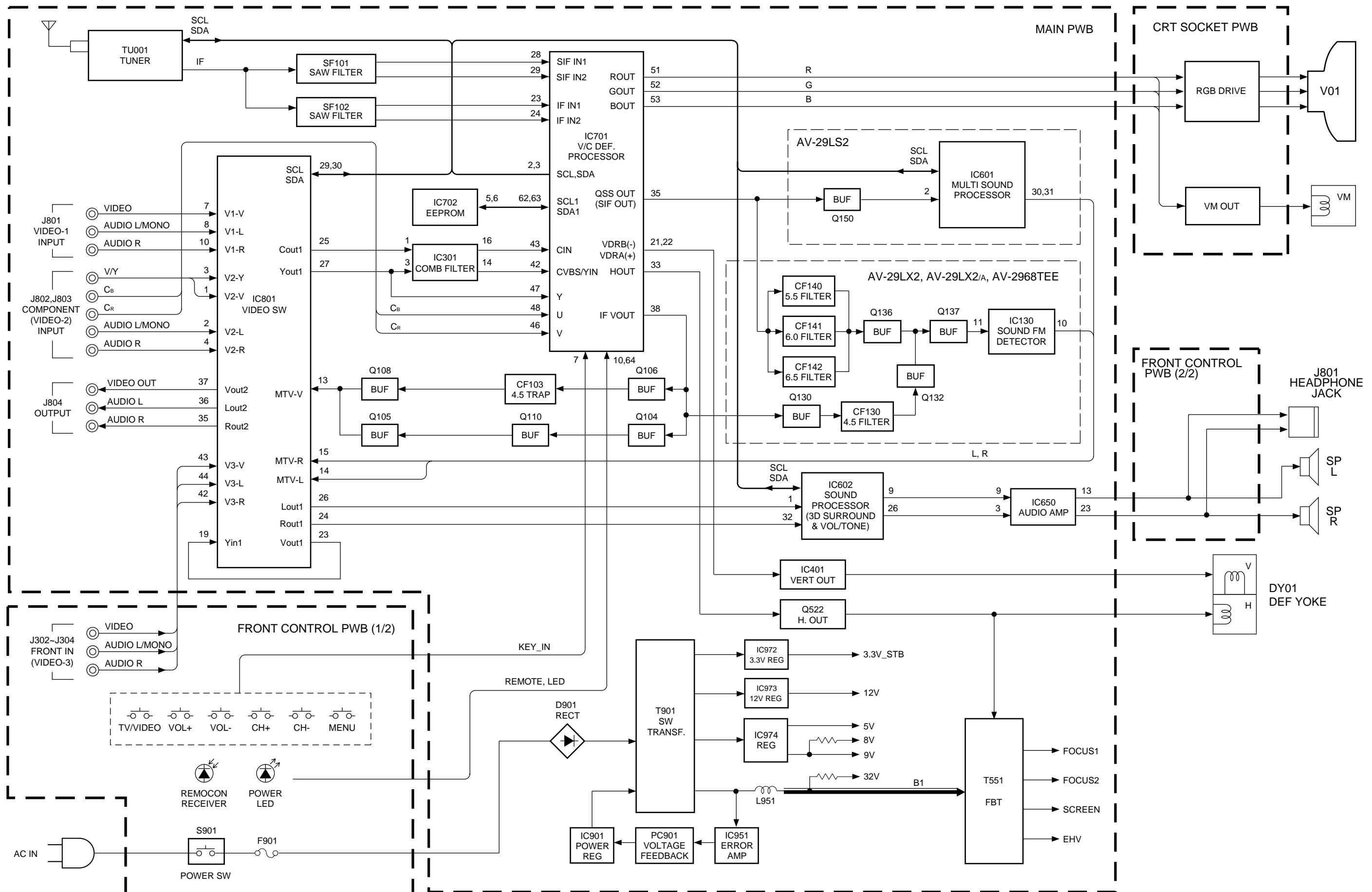
CHIP IC

TOP VIEW		
		

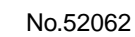
BLOCK DIAGRAM

AV-29LS2
AV-29LX2
AV-2968TEE

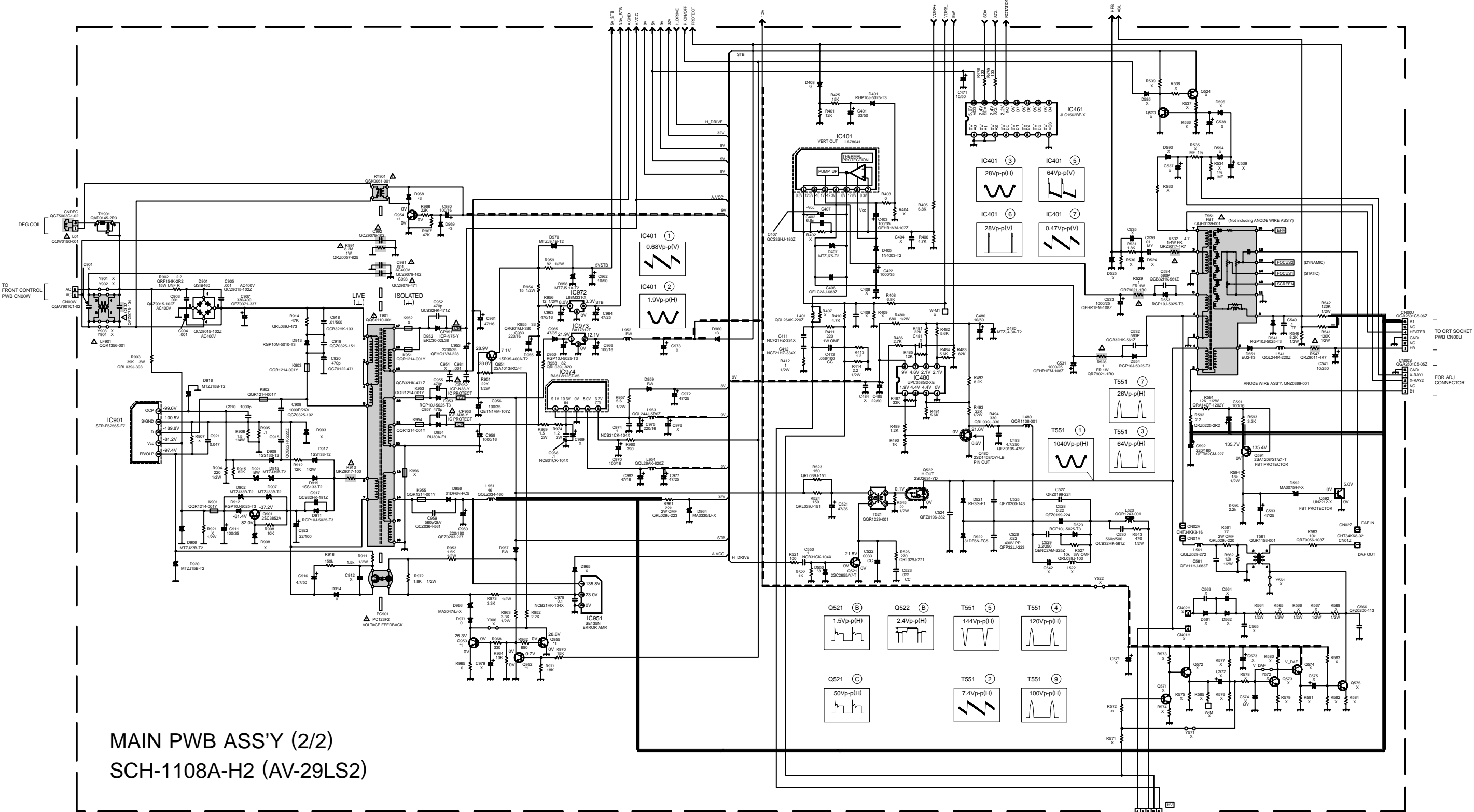
AV-29LS2
AV-29LX2
AV-2968TEE



MAIN PWB CIRCUIT DIAGRAM (1/2) [AV-29LS2]



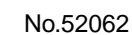
MAIN PWB CIRCUIT DIAGRAM (2/2) [AV-29LS2]



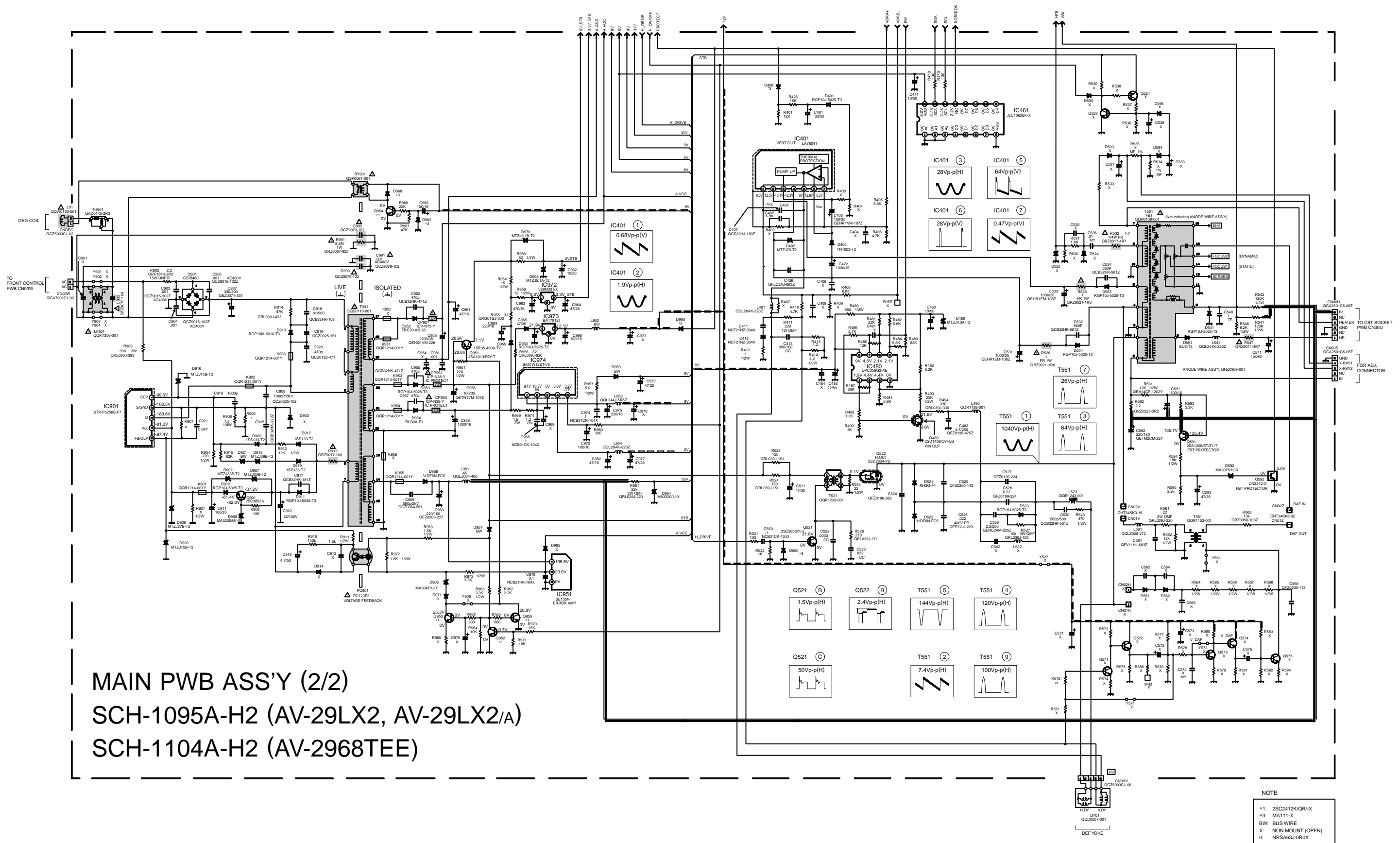
MAIN PWB ASS'Y (2/2)
SCH-1108A-H2 (AV-29LS2)

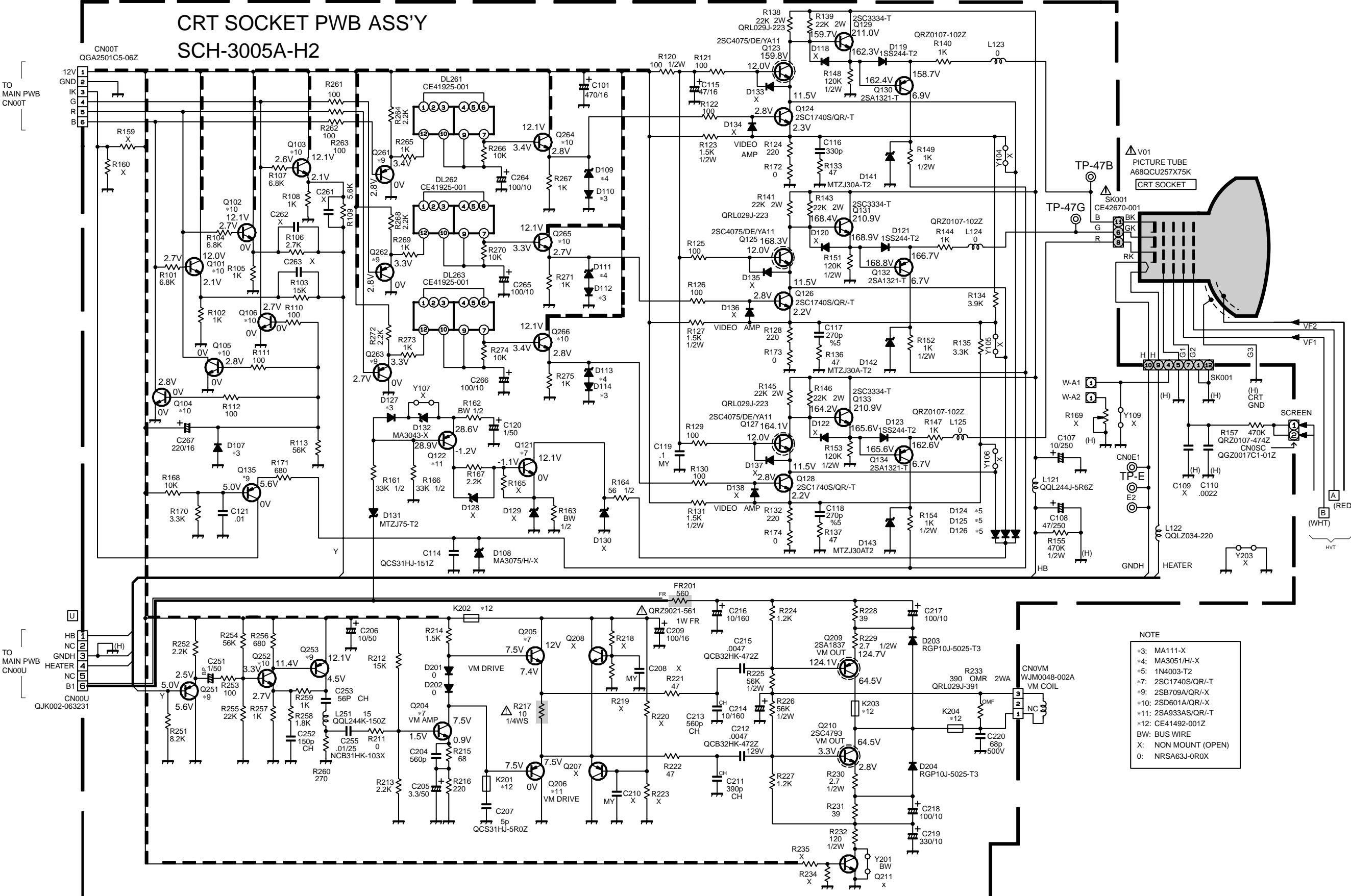
NOTE
*1: 2SC2412K/QR/-X
*3: MA111-X
BW: BUS WIRE
X: NON MOUNT (OPEN)
0: NRS63J-OR0X

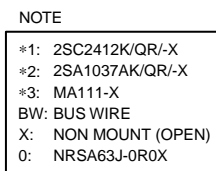
SCH-1104A-H2 (AV-2968TEE)



MAIN PWB CIRCUIT DIAGRAMS (2/2) [AV-29LX2, AV-29LX2/A, AV-2968TEE]



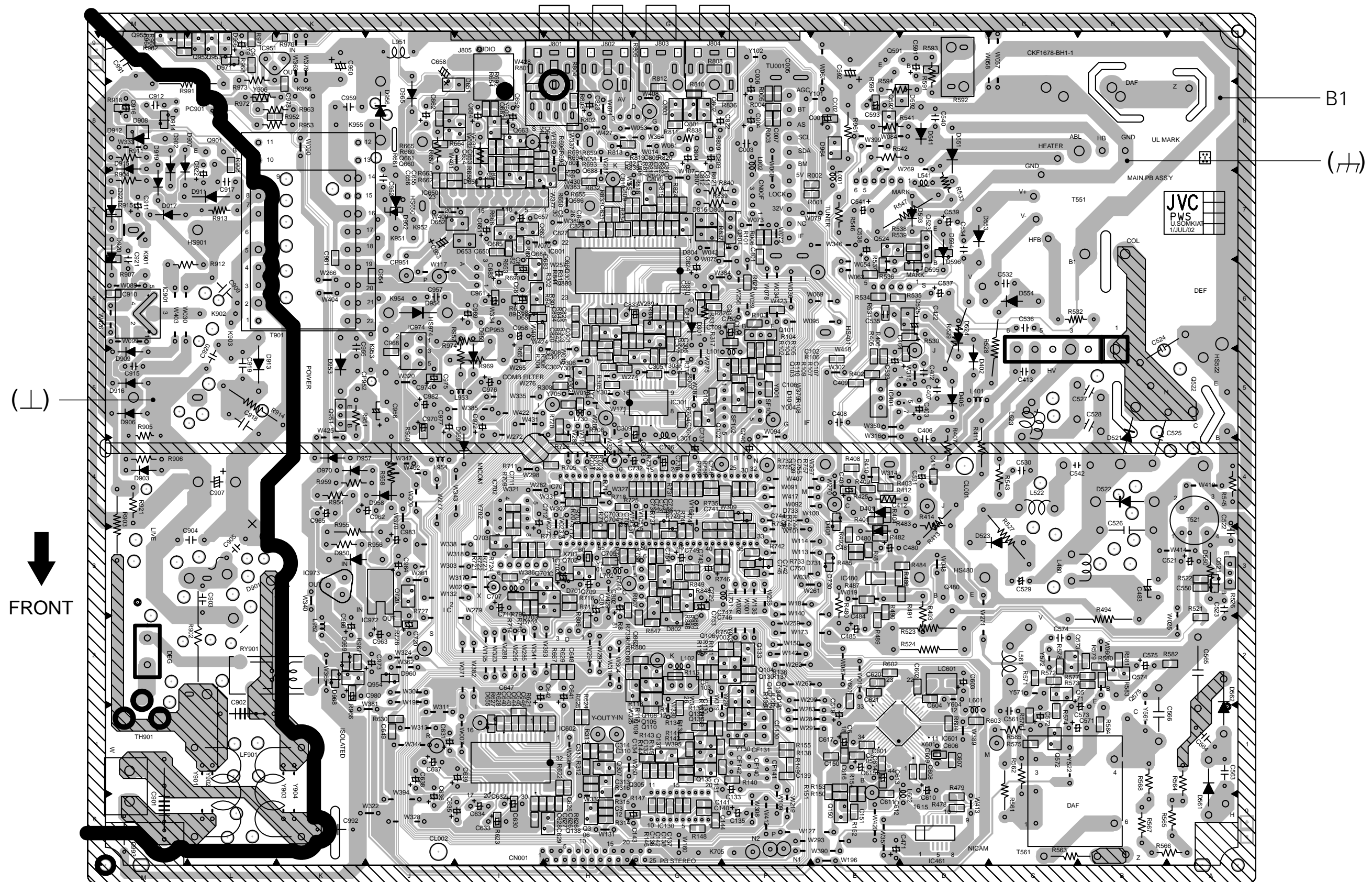




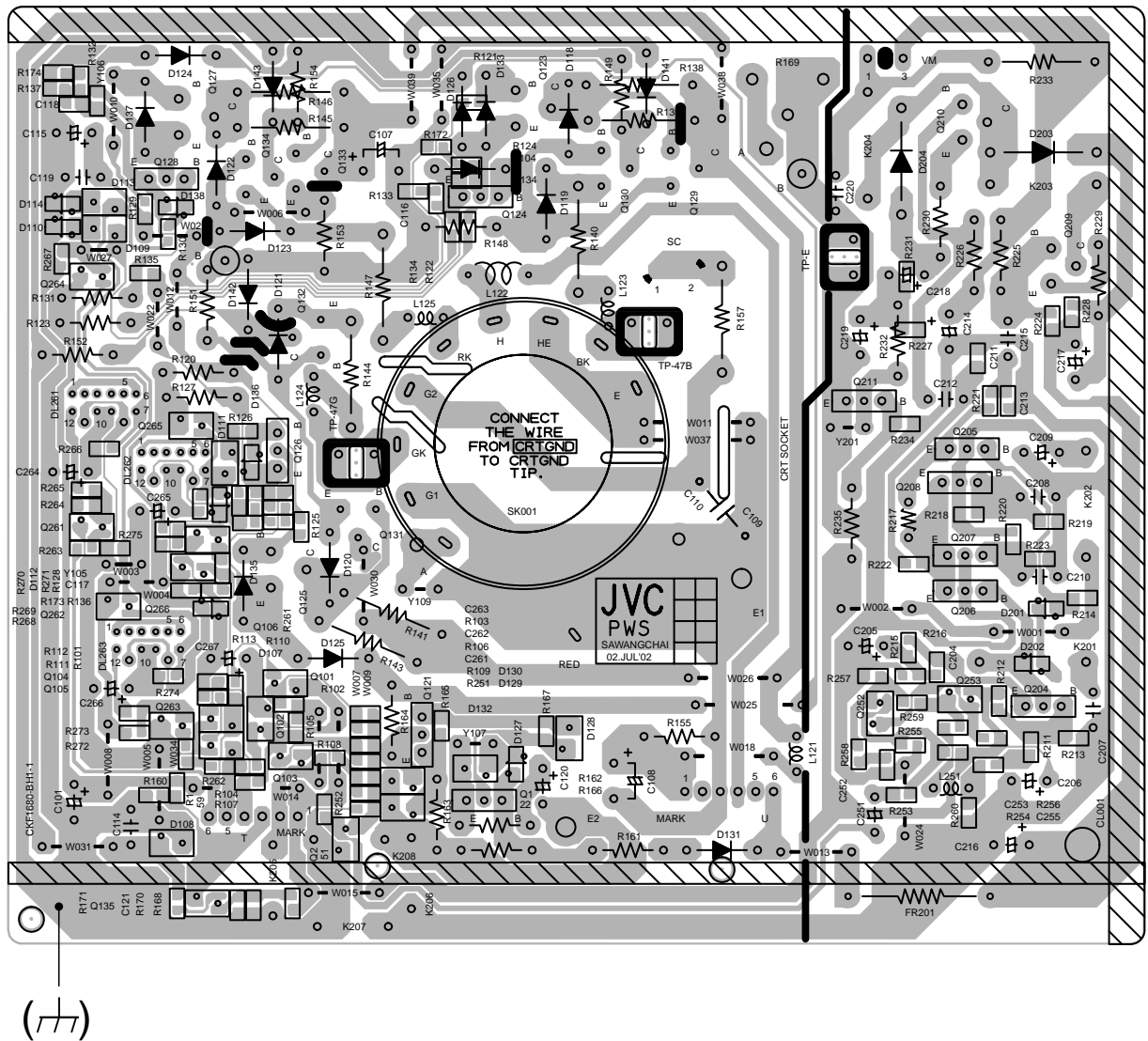
MAIN PWB PATTERN

AV-29LS2
AV-29LX2
AV-2968TEE

AV-29LS2
AV-29LX2
AV-2968TEE

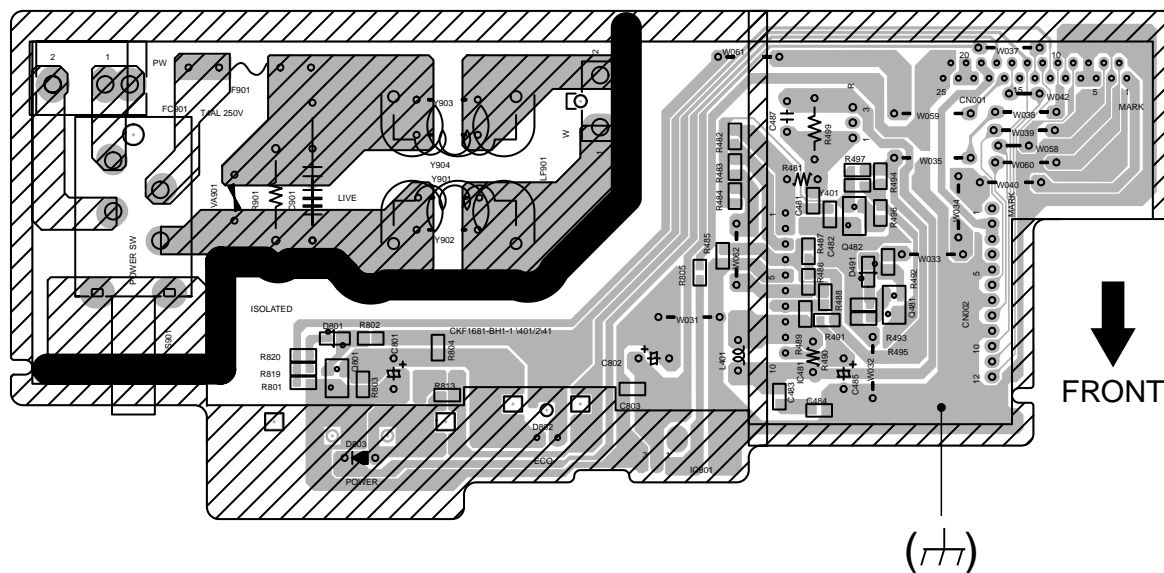


CRT SOCKET PWB PATTERN



FRONT CONTROL PWB PATTERN

— FRONT CONTROL (1/2) —



— FRONT CONTROL (2/2) —

