

JVC

SERVICE MANUAL

FLAT COLOUR TELEVISION

BASIC CHASSIS

CH3

AV-29WX11 /G
AV-29WX11 /S
AV-29WX11 /U
AV-2932W1 /E



RM-C1306-1H
[AV-29WX11/G]
[AV-29WX11/S]
[AV-29WX11/U]



RM-C1309-1H
[AV-2932W1/E]

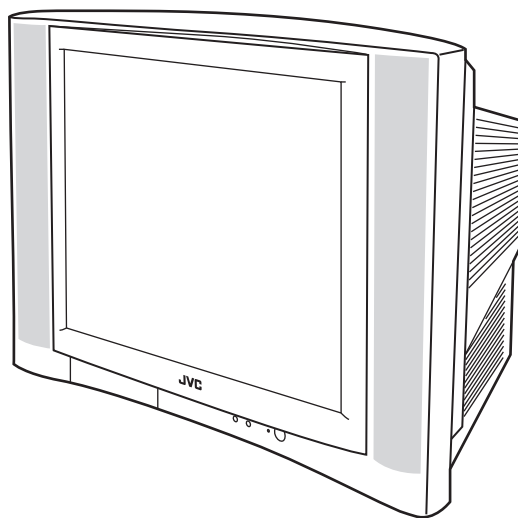


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SPECIFICATION

Items		Contents	
		AV-29WX11/G, AV-29WX11/S, AV-29WX11/U	AV-2932W1/E
Dimensions (W × H × D)		81.2cm x 58.4cm x 51.8cm	
Mass		43kg	
TV RF System		B, G, I, D, K, M	
Colour System	TV Mode	PAL / SECAM / NTSC3.58 / NTSC4.43	
	Video Mode	PAL / SECAM / NTSC3.58 / NTSC4.43	
Stereo System		Playback only	
Teletext system		None	FLOF (Fastext), WST (World Standard Text)
Receiving Frequency	VHF Low	46.25MHz – 140.25MHz (AS0 – S6)	
	VHF High	147.25MHz – 423.25MHz (S7 – S36)	
	UHF	431.25MHz – 863.25MHz (S37 – CHINA 57)	
	CATV	Mid : X-Z, S1-S10	
		Super : S11-S20	
		Hyper : S21-S41	
Intermediate Frequency	VIF	38.0MHz	
	SIF	31.5MHz (6.5MHz), 32.0MHz (6.0MHz), 32.5MHz (5.5MHz), 33.5MHz (4.5MHz)	
Colour Sub Carrier Frequency		4.43MHz (PAL), 4.40MHz/4.25MHz (SECAM), 3.58MHz/4.43MHz (NTSC)	
Aerial Input Terminal		75Ω unbalanced	
Power Input		AC110V – AC240V, 50Hz / 60Hz	
Power Consumption		177W (Max.) / 145W (Avg.)	
Picture Tube		Visible size : 67.6cm (Diagonal) / 54.1cm x 40.6cm (H x V)	
High Voltage		32kV -1.5kV / +1.0kV (at zero beam current)	
Speaker		6.5cm × 13cm, Oval type × 2	
Audio Output		7W + 7W	
Video / Audio Input (1 / 2 / 3)	S-Video (1)	Mini-DIN 4 pin × 1	
		Y : 1V(p-p), positive (negative sync provided), 75Ω C : 0.286V(p-p) (Burst signal), 75Ω	
	Video (1/2/3)	1V(p-p), negative sync, 75Ω, RCA pin jack × 3	
	Audio (1/2/3)	500mV(rms) (-4dBs), high impedance, RCA pin jack × 6	
	Component (2)	RCA pin jack × 3 Y : 1V(p-p), positive (negative sync), 75Ω Cb/Cr: 0.7V(p-p), 75Ω	
Video / Audio Output	Video	1V(p-p), 75Ω, RCA pin jack × 1	
	Audio	500mV(rms)(-4dBs), Low impedance (400Hz when modulated 100%), RCA pin jack × 2	
Headphone		3.5mm stereo mini jack × 1	
Remote Control Unit		RM-C1306-1H (AA/R06/UM-3 battery × 2)	RM-C1309-1H (AA/R06/UM-3 battery × 2)

Design & specifications are subject to change without notice.

SECTION 1 PRECAUTION

1.1 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.

a) 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.

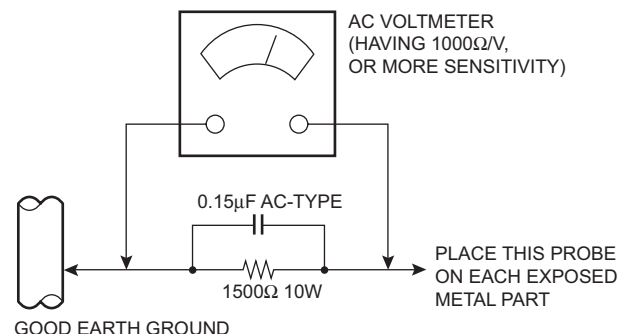
b) Leakage Current Check

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.).




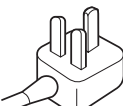

SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

2.1 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/S-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 +.

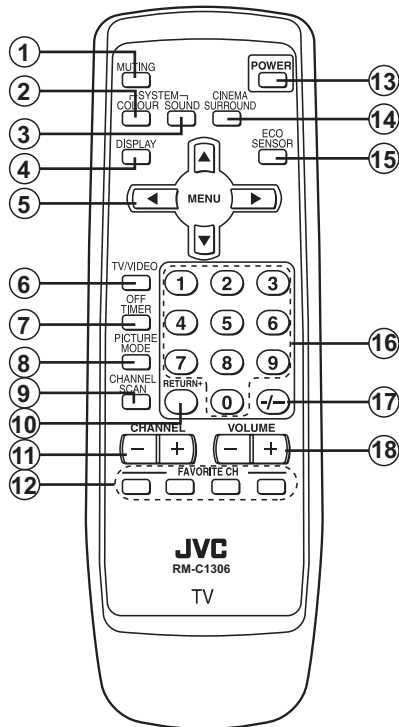
2.2 MAIN DIFFERENCE LIST

⚠	Items	AV-29WX11/G	AV-29WX11/S	AV-29WX11/U	AV-2932W1/E
⚠	MAIN PWB ASS'Y	SCH-1182A-H2	ACH-1183A-H2	SCH-1185A-H2	SCH-1184A-H2
⚠	FRONT CABINET ASS'Y	GG10189-002A-H	←	←	GG10189-006A-H
	REMOTE CONTROL UNIT	RM-C1306-1H	←	←	RM-C1309-1H
⚠	POWER CORD	QMPR340-165-K2 	QRPR370-165-E2 	QMPR340-165-K2 	←
	TELETEXT	None	←	←	FLOF, WST

2.3 FUNCTIONS

■ REMOTE CONTROL UNIT

RM-C1306-1H [AV-29WX11/G, AV-29WX11/S, AV-29WX11/U]



① MUTING key

② COLOUR SYSTEM key

③ SOUND SYSTEM key

④ DISPLAY key

⑤ MENU (▲/▼, ◀/▶) keys

⑥ TV/VIDEO key

⑦ OFF TIMER key

⑧ PICTURE MODE key

⑨ CHANNEL SCAN key

⑩ RETURN + key

⑪ CHANNEL (-/+) keys

⑫ FAVORITE CH keys

⑬ POWER key

⑭ CINEMA SURROUND key

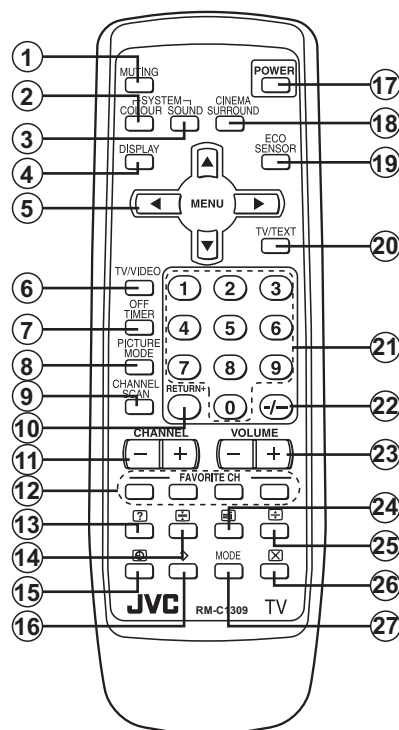
⑮ ECO SENSOR key

⑯ Number keys

⑰ -/-- key

⑱ VOLUME (-/+) keys

RM-C1309-1H [AV-2932W1/E]



① MUTING key

② COLOUR SYSTEM key

③ SOUND SYSTEM key

④ DISPLAY key

⑤ MENU (▲/▼, ◀/▶) keys

⑥ TV/VIDEO key

⑦ OFF TIMER key

⑧ PICTURE MODE key

⑨ CHANNEL SCAN key

⑩ RETURN + key

⑪ CHANNEL (-/+) keys

⑫ FAVORITE CH keys

⑬ REVEAL key

⑭ HOLD key

⑮ SUB PAGE key

⑯ STORE key

⑰ POWER key

⑱ CINEMA SURROUND key

⑲ ECO SENSOR key

⑳ TV/TEXT key

㉑ Number keys

㉒ -/-- key

㉓ VOLUME (-/+) keys

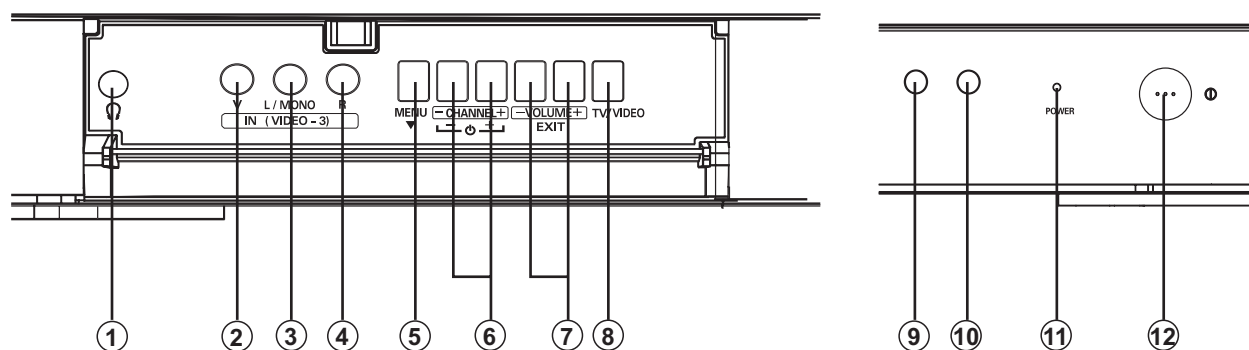
㉔ INDEX key

㉕ SIZE key

㉖ CANCEL key

㉗ MODE key

■ FRONT PANEL CONTROLS



① HEADPHONE jack

② IN (VIDEO-3) : VIDEO

③ IN (VIDEO-3) : AUDIO L/MONO

④ IN (VIDEO-3) : AUDIO R

⑤ MENU (▼) button

⑥ CHANNEL (-/+) buttons

⑦ VOLUME (-/+) buttons

⑧ TV/VIDEO buttons

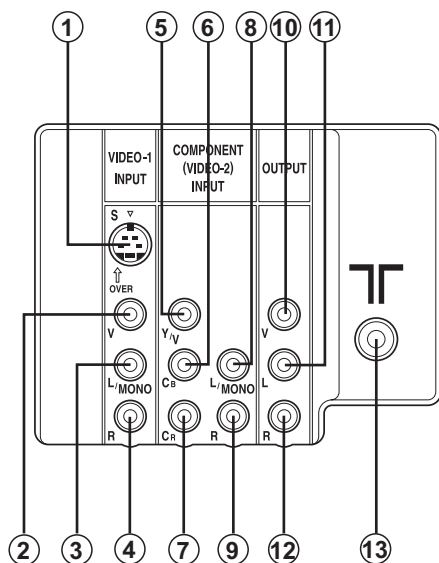
⑨ Remote control sensor

⑩ ECO sensor

⑪ POWER lamp

⑫ MAIN POWER button

■ REAR TERMINAL



VIDEO-1 INPUT TERMINAL

① S-VIDEO

② VIDEO

③ AUDIO L/MONO

④ AUDIO R

COMPONENT (VIDEO-2) INPUT TERMINAL

⑤ Y/VIDEO

⑥ C_B

⑦ C_R

⑧ AUDIO L/MONO

⑨ AUDIO R

OUTPUT TERMINAL

⑩ VIDEO

⑪ AUDIO L

⑫ AUDIO R

⑬ Aerial input terminal

SECTION 3

DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

3.1.1 REMOVING THE REAR COVER

- Unplug the power cord.
 - (1) Remove the 16 screws **[A]** as shown in Fig.1.
 - (2) 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.

3.1.2 REMOVING THE CHASSIS (CHASSIS BASE AND CONTROL BASE)

- Remove the REAR COVER.
 - (1) Slightly raise the both sides of the CHASSIS by hand and remove the 2 claws **[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.)

NOTE:

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.

3.1.3 REMOVING THE AV TERMINAL BOARD

- Remove the REAR COVER.
 - (1) Remove the 4 screws **[C]** as shown in Fig.1.
 - (2) When you pull out the AV TERMINAL BOARD in the direction of arrow **[D]** as shown in Fig.1, it can be removed.

3.1.4 REMOVING THE CONTROL BASE

- Remove the REAR COVER.
- Remove the CHASSIS.
 - (1) While pushing down the 2 claws **[E]** as shown in Fig. 2 and pull out the CONTROL BASE in the direction of arrow **[F]** as shown in Fig. 2, the control base can be removed.
(If necessary, take off the wire, connector's etc.)

3.1.5 REMOVING THE SPEAKER

- Remove the REAR COVER.
 - (1) Remove the 2 screws **[G]** as shown in Fig.1.
 - (2) Withdraw the SPEAKER backward.
 - (3) Follow the same steps when removing the other hand SPEAKER.

3.1.6 CHECKING THE MAIN PW BOARD

- 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.

CAUTIONS:

- 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.

3.1.7 WIRE CLAMPING AND CABLE TYING

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

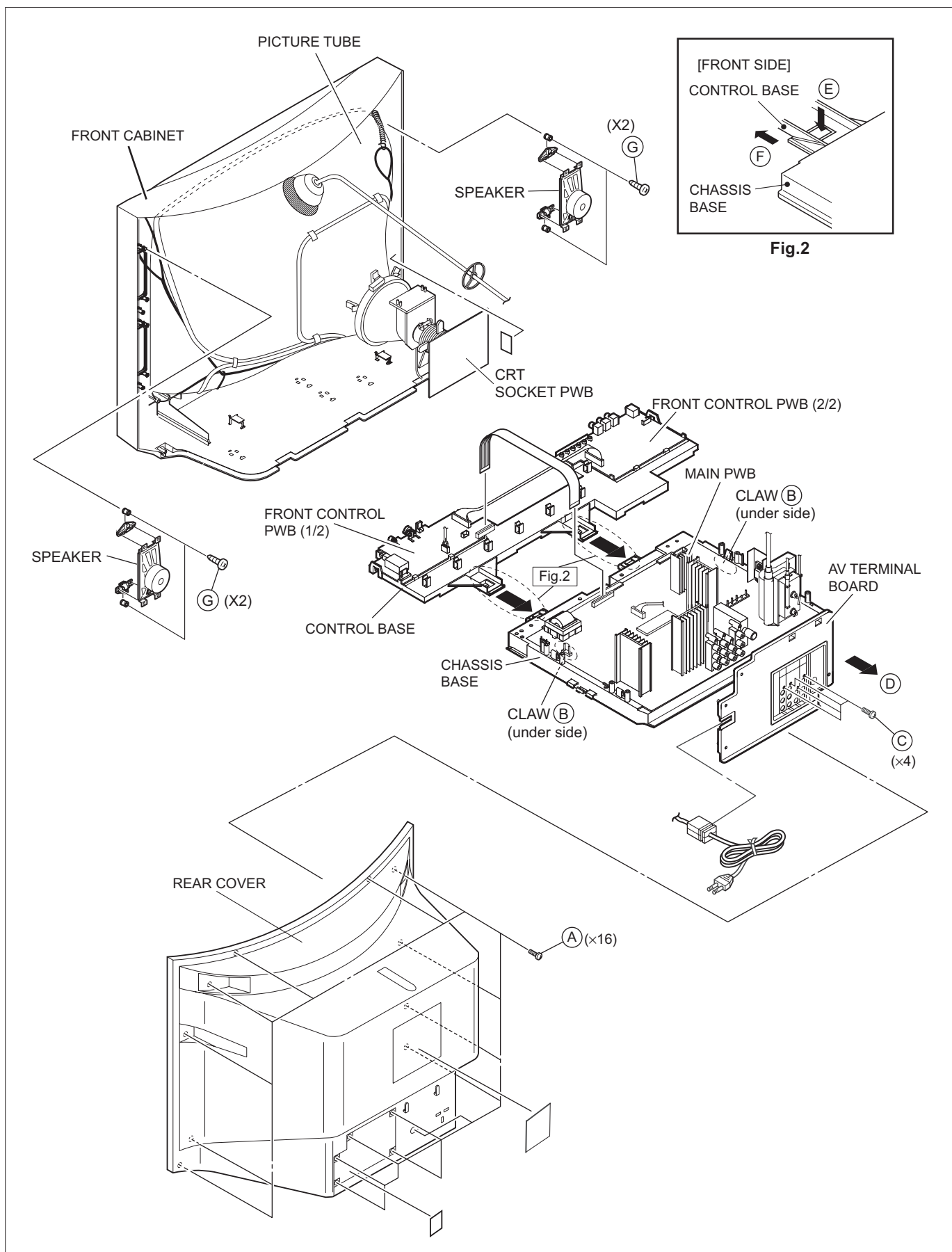


Fig. 1

3.2 REPLACEMENT OF MEMORY IC

3.2.1 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".

3.2.2 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 [◀]/[▶] 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 Table 3. 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 4.) If readjustment is necessary, perform adjustment referring to "ADJUSTMENTS PROCEDURE".

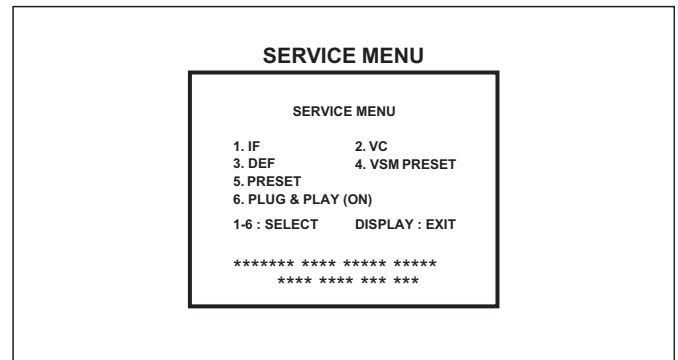
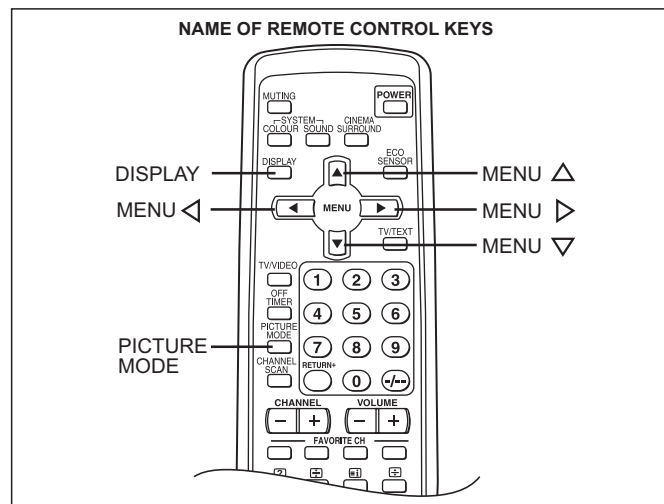


Fig. 1

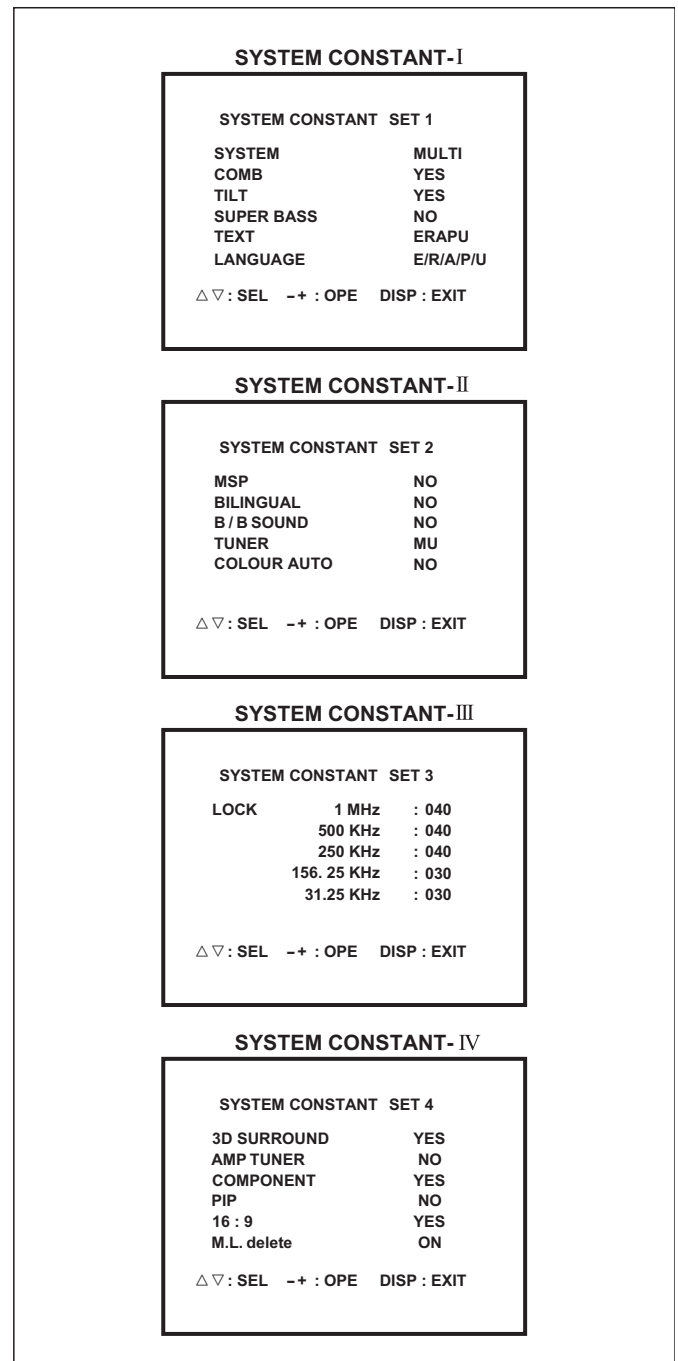


Fig. 2

3.2.3 FACTORY SETTING VALUE

■ SETTING OF SYSTEM CONSTANT SET

Setting item	Setting content	Setting value			
		AV-29WX11/G	AV-29WX11/S	AV-29WX11/U	AV-2932W1/E
SYSTEM	→ MULTI → TRIPLE → PAL → SINGLE → VIET ←	MULTI	←	←	←
COMB	→ YES → NO ←	YES	←	←	←
TILT	→ YES → NO ←	YES	←	←	←
SUPER BASS	→ YES → NO ←	NO	←	←	←
TEXT	→ ERCMI → ERAPU → NO ←	NO	←	←	ERAPU
LANGUAGE	→ E/R/A/P/U → E/R/A/P → E/R/U ←	E/R/A/P	←	←	E/R/A/P/U
MSP	→ YES → NO ←	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 ←	YES	←	←	←
AMP TUNER	→ YES → NO ←	NO	←	←	←
COMPONENT	→ YES → NO ←	YES	←	←	←
PIP	→ YES → NO ←	NO	←	←	←
16 : 9	→ YES → NO ←	YES	←	←	←
M.L. delete	→ ON → OFF ←	ON	←	←	←

Table 1

■ **SETTING OF SWITCHES ON FRONT PANEL AND REMOTE CONTROL UNIT**

Setting item	Setting value
POWER	Off
SUB POWER	On
VOLUME	15
COLOR SYSTEM	PAL
SOUND SYSTEM	B/G
PICTURE MODE (VSM)	BRIGHT
CINEMA SURROUND	OFF
OFF TIMER	00
STEREO MODE	STEREO
CHANNEL POSITION	PRESET 1

Table 2

■ **SETTING OF MENU SCREEN**

Setting item	Setting value
INPUT	TV
VNR	OFF
COMPRESS (16:9)	OFF
PICTURE TILT	00
AUTO SHUTOFF	OFF
CHILD LOCK	OFF
BLUE BACK	ON
VIDEO-2 SET	VIDEO
AUTO CH PRESET	Refer to OPERATING INSTRUCTIONS
MANUAL CH PRESET	Refer to OPERATING INSTRUCTIONS
LANGUAGE	ENG
TEXT LANGUAGE	GROUP-3 [AV-2932W1/E]
TINT	Center
COLOUR	Center
BRIGHT	Center
CONT	Maximum
SHARP	Center
BASS	Center
TREBLE	Center
BALANCE	Center
AI VOLUME	ON
FAVORITE CH RED	PR1
FAVORITE CH GREEN	PR2
FAVORITE CH YELLOW	PR3
FAVORITE CH BLUE	PR4
AI ECO SENSOR	OFF
AI ECO DISPLAY	ON

Table 3

■ 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 29. SUB BASS 30. SUB TREBLE 31. SUB TRIMMER 32. CCCLOOP 33. OSD BRIGHTNESS
2. VC	1. CUTOFF(R/G) 2. DRIVE(R/G/B) 3. BRIGHT 4. CONT 5. COLOUR 6. TINT 7. SHARP 8. YDELAY 9. AMPT. SHARP		
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/STANDARD/SOFT) [Do not adjust]	TINT COLOUR BRIGHT PICTURE DETAIL		
		6. PLUG & PLAY(ON) [Do not adjust]	

Table 4

3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 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.

3.3.2 SOLDERING IRON

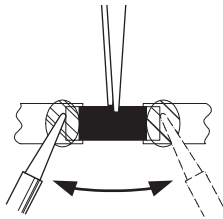
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

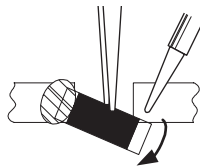
1. How to remove Chip parts

[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.

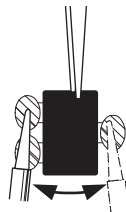


[Transistors, diodes, variable resistors, etc.]

- (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.



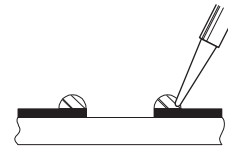
Note :

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

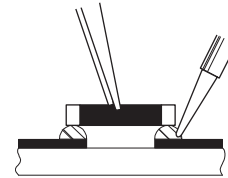
2. How to install Chip parts

[Resistors, capacitors, etc.]

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

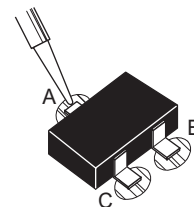


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

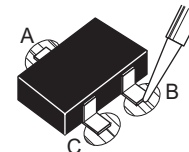


[Transistors, diodes, variable resistors, etc.]

- (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.



SECTION 4 ADJUSTMENT

4.1 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 variable resistors, transformers, trimmer 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
TINT, COLOUR, BRIGHT, SHARP	Center
CONT	Maximum
VNR	OFF
AI ECO SENSOR	OFF
BASS, TREBLE, BALANCE	Center

4.2 MEASURING INSTRUMENT AND FIXTURES

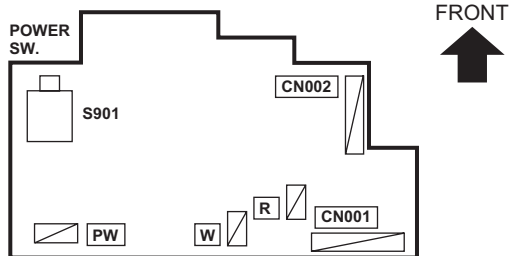
- (1) DC voltmeter (or Digital voltmeter)
- (2) Oscilloscope
- (3) Signal generator (Pattern generator) [PAL/SECAM/NTSC]
- (4) Remote control unit

4.3 ADJUSTMENT ITEMS

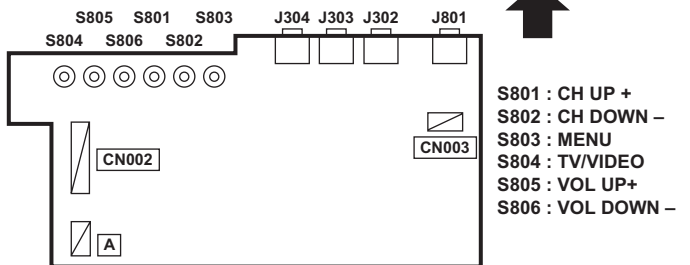
- B1 POWER SUPPLY
- FOCUS ADJUSTMENT
- IF CIRCUIT ADJUSTMENTS
 - IF VCO adjustment
 - DELAY POINT (AGC TAKE-OVER) adjustment
- VIDEO CIRCUIT ADJUSTMENTS
 - WHITE BALANCE (Low light) adjustment
 - WHITE BALANCE (High light) adjustment
 - SUB BRIGHT adjustment
 - SUB CONTRAST adjustment
 - SUB COLOUR I adjustment
 - SUB COLOUR II adjustment
 - SUB TINT I adjustment
 - SUB TINT II adjustment
- DEFLECTION CIRCUIT ADJUSTMENTS
 - V.SLOPE adjustment
 - V.POSITION adjustment
 - V.HEIGHT adjustment
 - H.POSITION adjustment
 - H. WIDTH adjustment
 - SIDE PIN adjustment
 - TRAPEZIUM adjustment
 - V.S-CURVE adjustment
 - CORNER adjustment
 - H. PARALLEL adjustment
 - H.BOW adjustment
- VSM PRESET SETTING
- PRESET SETTING

4.4 ADJUSTMENT LOCATIONS

FRONT CONTROL PWB ASS'Y (1/2)

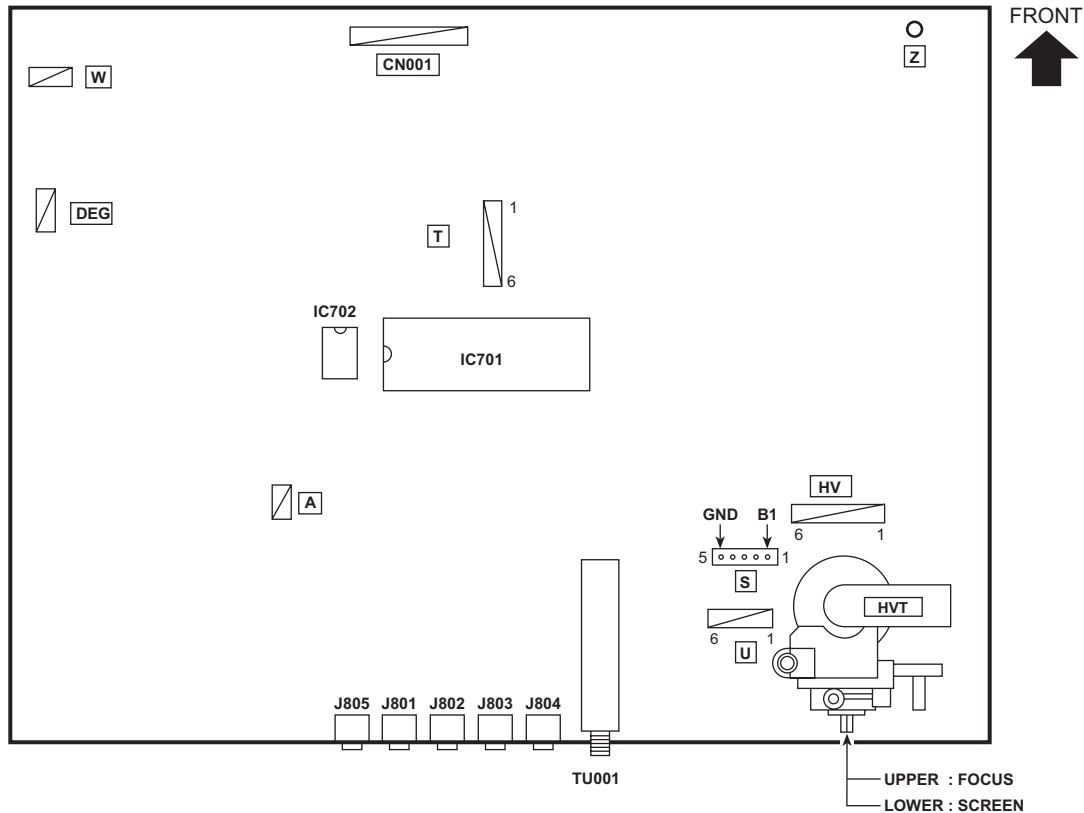


FRONT CONTROL PWB ASS'Y (2/2)



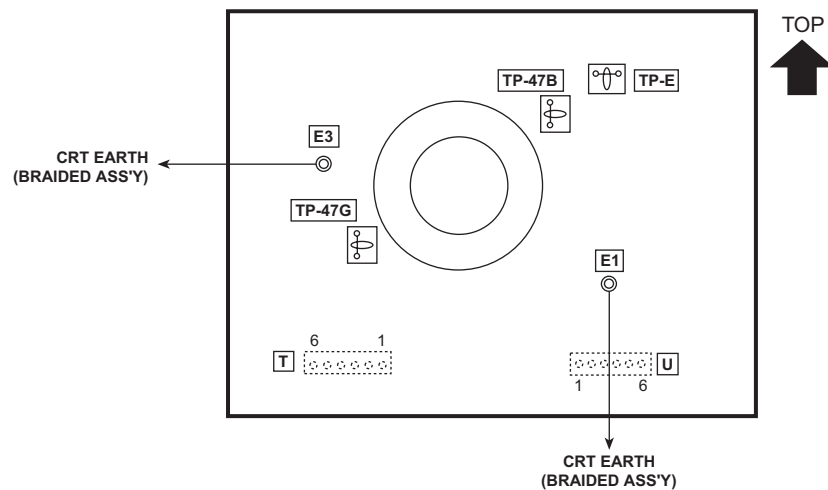
S801 : CH UP +
S802 : CH DOWN -
S803 : MENU
S804 : TV/VIDEO
S805 : VOL UP+
S806 : VOL DOWN -

MAIN PWB ASS'Y



UPPER : FOCUS
LOWER : SCREEN

CRT SOCKET PWB ASS'Y (SOLDER SIDE)



CRT EARTH
(BRAIDED ASS'Y)

CRT EARTH
(BRAIDED ASS'Y)

4.5 BASIC OPERATION IN SERVICE MENU

4.5.1 TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the remote control unit.

4.5.2 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 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. PLUG & PLAY (ON)	This is not used for service.

4.5.3 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 6 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. PLUG & PLAY (ON)

3. METHOD OF SETTING

NOTES:

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

(1) 1. IF

[1.VCO] : Under normal conditions, no adjustment is required.

(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.

[2.DELAY POINT]

(a) [1] key	Select 1. IF .
(b) [2] key	Select 2. DELAY POINT .
(c) MENU [◀]/[▶] 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 and 5. PRESET

(a) [2] ~ [5] keys	Select one from 2. VC , 3. DEF , 4. VSM PRESET and 5. PRESET
(b) MENU [▽]/[△] key	Select setting items.
(c) MENU [◀]/[▶] 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. 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.

4.5.4 SERVICE MENU FLOW CHART

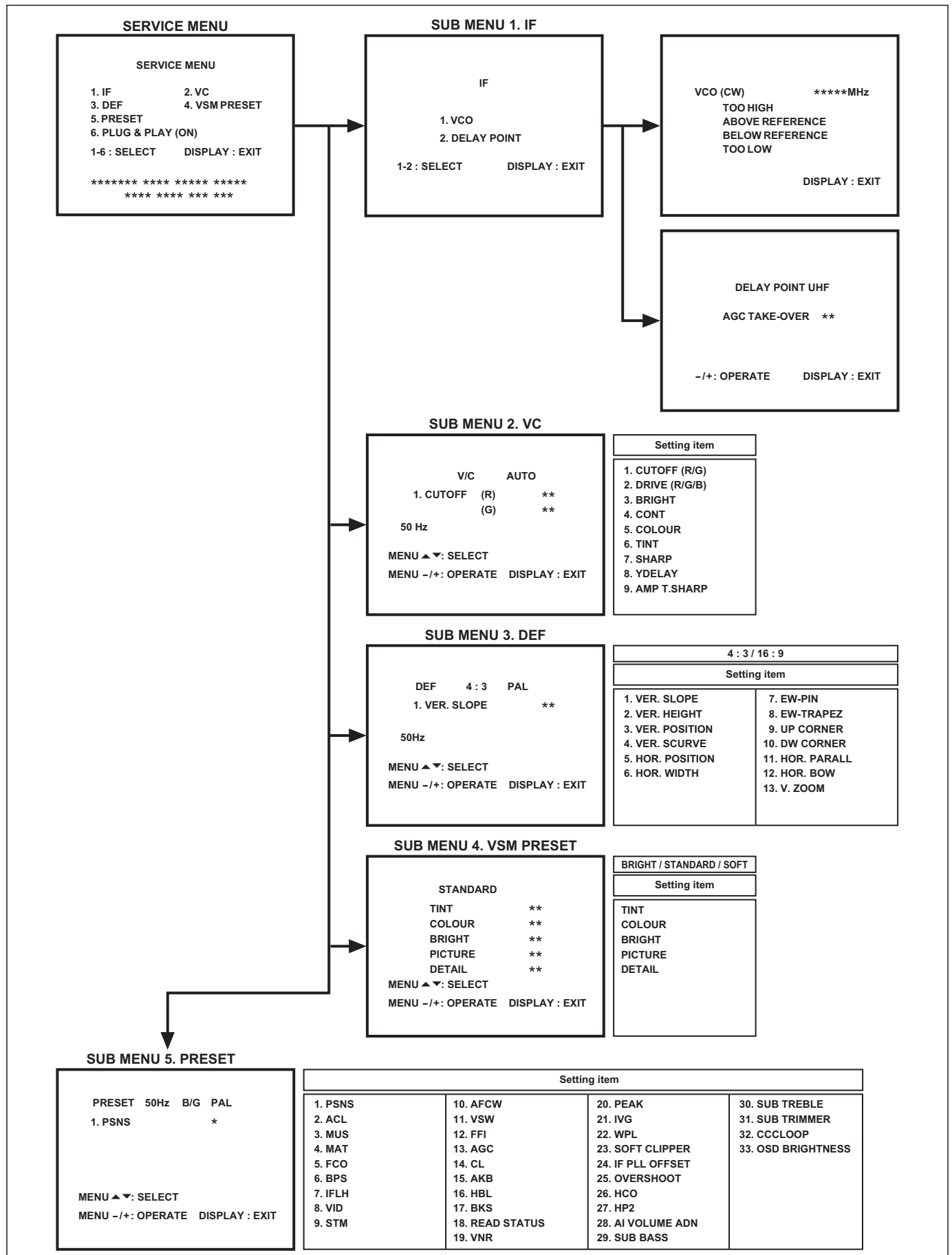


Fig. 1

4.6 ADJUSTMENT PROCEDURE

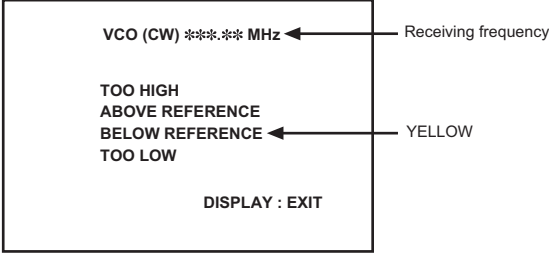
4.6.1 B1 POWER SUPPLY

Item	Measuring instrument	Test point	Adjustment part	Description
B1 POWER SUPPLY check	Signal generator DC voltmeter	B1 (pin 1) GND (pin 5) [CN00S connector in MAIN PWB]		(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 DC134.5V ± 2V .

4.6.2 FOCUS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS adjustment	Signal generator		FOCUS VR [In HVT]	Notes: <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.) When makes difference by FOCUS adjustment, should be reconfirming PURITY adjustment. (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.

4.6.3 IF CIRCUIT ADJUSTMENTS

Item	Measuring instrument	Test point	Adjustment part	Description																			
IF VCO adjustment	Remote control unit		[1. IF] 1. VCO (CW)	Note: <ul style="list-style-type: none"> Under normal conditions, no adjustment is required. (1) Select 1. IF from the SERVICE MENU. (2) Select 1. VCO . (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.																			
																							
DELAY POINT (AGC TAKE-OVER) adjustment	Remote control unit		[1. IF] 2. DELAY POINT	(1) Receive a black and white broadcast signal (colour off). (2) Select 1. IF from the SERVICE MENU. (3) Select 2. DELAY POINT . (4) Adjust 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 border="1"> <thead> <tr> <th rowspan="2">Adjustment item</th><th colspan="4">Initial setting value</th></tr> <tr> <th colspan="2">NTSC 3.58</th><th colspan="2">OTHERS</th></tr> <tr> <th></th><th>VHF</th><th>UHF</th><th>VHF</th><th>UHF</th></tr> </thead> <tbody> <tr> <td>2. DELAY POINT (AGC TAKE-OVER)</td><td>28</td><td>22</td><td>28</td><td>28</td></tr> </tbody> </table>				Adjustment item	Initial setting value				NTSC 3.58		OTHERS			VHF	UHF	VHF	UHF	2. DELAY POINT (AGC TAKE-OVER)	28	22	28	28	
Adjustment item	Initial setting value																						
	NTSC 3.58		OTHERS																				
	VHF	UHF	VHF	UHF																			
2. DELAY POINT (AGC TAKE-OVER)	28	22	28	28																			

4.6.4 VIDEO 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 PROCEDURE".

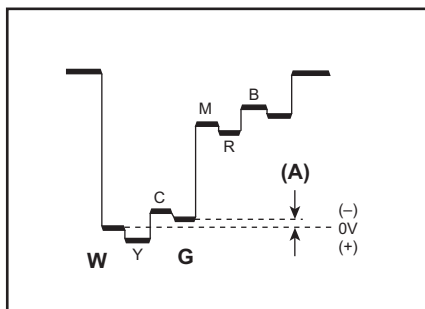
[SUB MENU 2. VC]

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	-13/0/0/0	←	←	←	- / - /-4/ -
4. CONT	-32 – +31	-10	←	←	←	-
5. COLOUR	-32 – +31	-4	-13	-11	+1	+2
6. TINT (TV/VIDEO)	-32 – +31	-	-	-15/+6	- /+1	-
7. SHARP (TV/VIDEO) [Do not adjust]	-32 – +31	-15/-5	←	←	←	-/0
8. Y DELAY (TV/VIDEO/S-VIDEO) [Do not adjust]	-8 – +7	-7/+1/0	-7/+1/+1	+5/+5/+1	-7/0/+1	- /+1/ -
9. AMP T. SHARP [Do not adjust]	-32 – +31	0	←	←	←	←

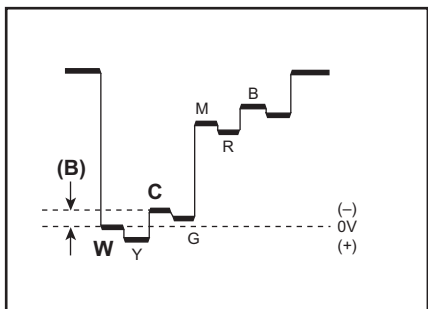
Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (Low light) adjustment	Signal generator Remote control unit		[2. VC] 1.CUTOFF (R) 1.CUTOFF (G) SCREEN VR [In HVT]	<p>Note:</p> <ul style="list-style-type: none">• Set PICTURE MODE (VSM) to “BRIGHT”. <p>(1) Receive a PAL black and white signal (colour off). (2) Select 2. VC from the SERVICE MENU. (3) Select 1. CUTOFF (R) and (G), and set each value to initial setting value with the [4] and [7] keys, or [5] and [8] keys. (4) Press the [1] key 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 [4] and [7] or [5] and [8] keys 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.</p>
<div><div><div>V/C PAL 1. CUTOFF (R) ** (G) ** 50 Hz MENU ▲▼ : SELECT MENU -/+ : OPERATE DISPLAY : EXIT</div></div><div><div>REMOTE CONTROL UNIT H.LINE OFF ——— 1 2 3 H.LINE ON ——— 1 2 3 4 5 6 ——— G CUTOFF (▲) R CUTOFF (▲) ——— 4 5 6 7 8 9 R CUTOFF (▼) ——— 7 8 9 </div></div></div>				

Item	Measuring instrument	Test point	Adjustment part	Description										
WHITE BALANCE (High light) adjustment	Signal generator Remote control unit		[2. VC] 2.DRIVE (R) 2.DRIVE (G) 2.DRIVE (B)	<p>Notes:</p> <ul style="list-style-type: none">• Proceed to the following adjustment after having completed the WHITE BALANCE (Low light) adjustment.• Set PICTURE MODE (VSM) to “BRIGHT”. <p>(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), and set each value to initial setting value with the [4] to [9] keys. (4) Use the [4] to [9] keys to produce a white screen. (5) Press the [DISPLAY] key twice to return to the normal screen.</p> <table><tr><th>Adjustment Item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td rowspan="3">2. DRIVE</td><td>R</td><td>−32 — +31</td></tr><tr><td>G</td><td>−32 — +31</td></tr><tr><td>B</td><td>−32 — +31</td></tr></table>	Adjustment Item	Variable range	Initial setting value	2. DRIVE	R	−32 — +31	G	−32 — +31	B	−32 — +31
Adjustment Item	Variable range	Initial setting value												
2. DRIVE	R	−32 — +31												
	G	−32 — +31												
	B	−32 — +31												
<div><div><div>V/C</div><div>PAL</div><div>2. DRIVE (R) **</div><div>(G) **</div><div>50 Hz (B) **</div><div>MENU ▲▼ : SELECT</div><div>MENU −/+ : OPERATE DISPLAY : EXIT</div></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>R DRIVE (▼)</div><div>G DRIVE (▲)</div><div>B DRIVE (▲)</div><div>B DRIVE (▼)</div><div>G DRIVE (▼)</div></div></div></div>														
SUBBRIGHT adjustment	Remote control unit		[2. VC] 3. BRIGHT	<p>Notes:</p> <ul style="list-style-type: none">• Proceed to the following adjustment after having completed the WHITE BALANCE (Low light) and WHITE BALANCE (High light) adjustment.• Set PICTURE MODE (VSM) to “BRIGHT”. <p>(1) Receive a broadcast. (2) Select 2. VC from the SERVICE MENU. (3) Select 3. BRIGHT. (4) Set the initial setting value. (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.</p>										
SUB CONTRAST adjustment	Remote control unit		[2. VC] 4. CONT	<p>Notes:</p> <ul style="list-style-type: none">• Proceed to the following adjustment after having completed the SUB BRIGHT adjustment.• Set PICTURE MODE (VSM) to “BRIGHT”. <p>(1) Receive a broadcast. (2) Select 2. VC from the SERVICE MENU. (3) Select 4. CONT. (4) Set the initial setting value. (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.</p>										

Item	Measuring instrument	Test point	Adjustment part	Description
SUB COLOUR I adjustment	Remote control unit		[2. VC] 5. COLOUR	<p>[Method of adjustment without measuring instrument] Notes:</p> <ul style="list-style-type: none"> • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • 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. (4) Set the initial setting value for PAL COLOUR. (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"> (1) Receive a SECAM broadcast. (2) Press the [COLOUR SYSTEM] key to select the SECAM colour system. (3) 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"> (1) Receive a NTSC 3.58MHz broadcast. (2) Press the [COLOUR SYSTEM] key to select the NTSC 3.58 colour system. (3) Make similar fine adjustment of NTSC 3.58 COLOUR in the same way as for "PAL COLOUR". <p>– NTSC 4.43 COLOUR – When adjustment is done for NTSC 3.58 COLOUR, appropriate values are automatically set for NTSC 4.43 COLOUR.</p>
SUB COLOUR II adjustment	Signal generator Oscilloscope Remote control unit	TP-47G TP-E ($\frac{1}{17}$) [CRT SOCKET PWB]	[2. VC] 5. COLOUR	<p>[Method of adjustment using measuring instrument] Notes:</p> <ul style="list-style-type: none"> • Proceed to the following adjustment after having completed the SUB CONTRAST adjustment. • 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. (4) Set the initial setting value of PAL COLOUR. (5) Connect the oscilloscope between TP-47G and TP-E. (6) Adjust PAL COLOUR to set the value (A) in the figure to +16V (V_{w-g}). <p>– SECAM COLOUR –</p> <ol style="list-style-type: none"> (1) Receive a SECAM colour bar signal (full field colour bar 75% white). (2) Press the [COLOUR SYSTEM] key to select the SECAM colour system. (3) Set the initial setting value of SECAM COLOUR. (4) Adjust SECAM COLOUR to set the value (A) in the figure to +2V (V_{w-g}). <p>– NTSC 3.58 COLOUR –</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] key to select the NTSC 3.58 colour system. (3) Set the initial setting value of NTSC 3.58 COLOUR. (4) Adjust NTSC 3.58 COLOUR to set the value (A) in the figure to +8V (V_{w-g}). <p>– NTSC 4.43 COLOUR – 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
SUB TINT I adjustment	Signal generator Remote control unit		[2. VC] 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 SUB CONTRAST adjustment. • 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] key to select the NTSC 3.58 colour system. (3) Select 2. VC from the SERVICE MENU. (4) Select 6. TINT. (5) Set the initial setting value of NTSC 3.58. (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>
SUB TINT II adjustment	Signal generator Oscilloscope Remote control unit	TP-47G TP-E (\nearrow) [CRT SOCKET PWB]	[2. VC] 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 SUB CONTRAST adjustment. • 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] key to select the NTSC 3.58 colour system. (3) Select 2. VC from the SERVICE MENU. (4) Select 6. TINT. (5) Set the initial setting value of NTSC 3.58. (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 +6V (V_{w-c}). (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>



4.6.5 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.
- When performing deflection circuit adjustment, adjusts PAL signal (fv: 50 Hz) in 4:3 mode and 16:9 mode respectively, and adjust the NTSC signal (fv: 60 Hz) similarly.

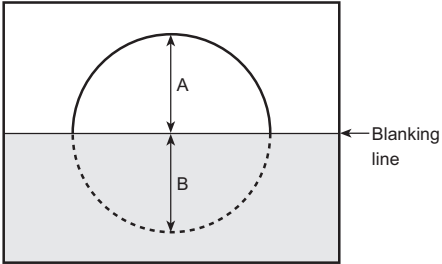
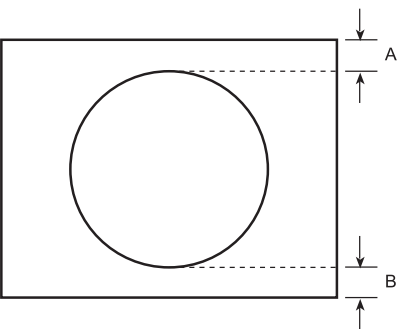
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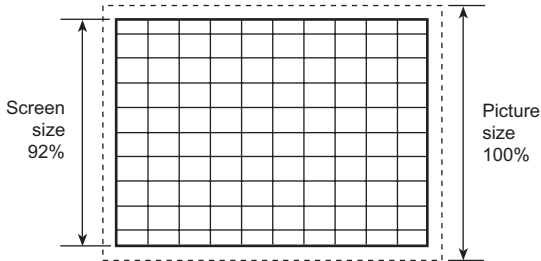
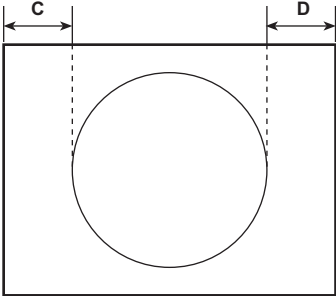
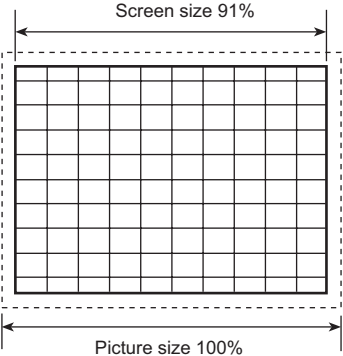
Proceed to the following adjustment after having completed the adjustments of SUB BRIGHT and SUB PICTURE.

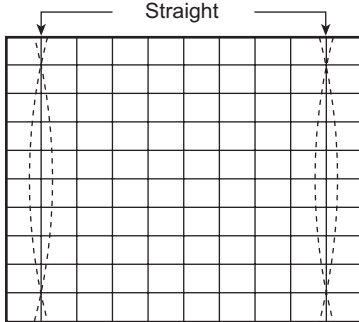
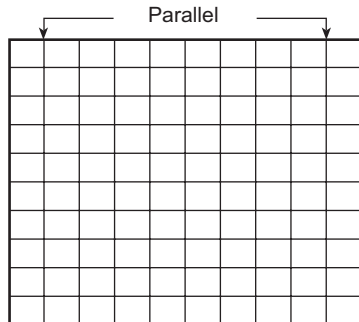
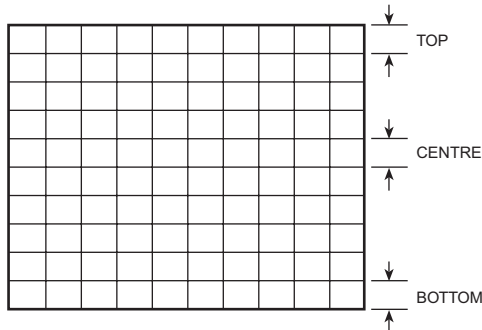
■ SUB MENU 3. DEF

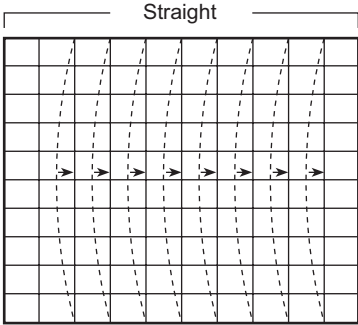
Adjustment item	Variable range	Initial setting value				
		4:3		COMPRESS (16:9)		COMPONENT (50Hz)
		50Hz	60Hz	50Hz	60Hz	
1. VER. SLOPE	-32 — +31	+2	-0	0	-0	—
2. VER. HEIGHT	-32 — +31	0	0	+31	+31	—
3. VER. POSITION	-32 — +31	-3	-1	—	—	—
4. VER. SCURVE	-32 — +31	-10	0	—	—	—
5. HOR. POSITION	-32 — +31	0	+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	—	—	—
12. HOR. BOW	-32 — +31	-0	-0	—	—	—
13. V.ZOOM	-32 — +31	0	0	-25	-25	—

■ COMPRESS : OFF (4:3), fv: 50Hz/60Hz mode

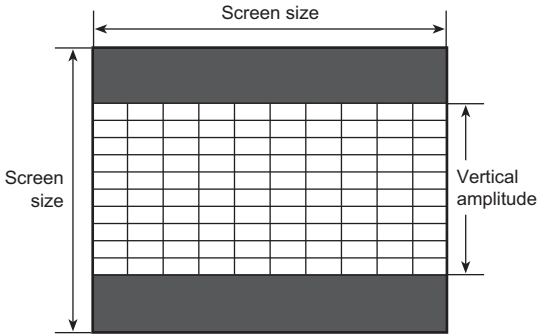
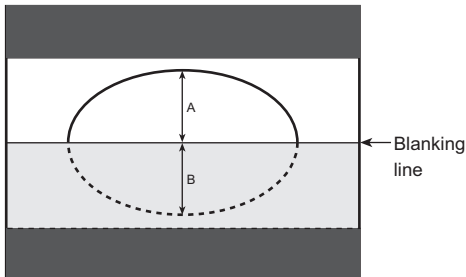
Item	Measuring instrument	Test point	Adjustment part	Description
V. SLOPE adjustment	Signal generator Remote control unit		[3. DEF] 1. VER. SLOPE	<p>– PAL V. SLOPE –</p> <ol style="list-style-type: none"> (1) Receive a PAL circle pattern signal of vertical frequency 50Hz. (2) Select 3. DEF from the SERVICE MENU. (3) Select 1. VER. SLOPE. (4) Set the initial setting value of 1. VER. SLOPE. (5) Adjust 1. VER. SLOPE to make "A = B". (6) Press the [DISPLAY] key to return to SERVICE MENU screen. <p>– NTSC V. SLOPE –</p> <ol style="list-style-type: none"> (1) Receive a NTSC circle pattern signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. SLOPE in the same way as for "PAL V. SLOPE".
				
V. POSITION adjustment	Signal generator Remote control unit		[3. DEF] 3. VER. POSITION	<p>– PAL V. POSITION –</p> <ol style="list-style-type: none"> (1) Receive a PAL circle pattern signal of vertical frequency 50Hz. (2) Select 3. VER. POSITION. (3) Set the initial setting value of 3. VER. POSITION. (4) Adjust 3. VER. POSITION to make "A = B". <p>– NTSC V. POSITION –</p> <ol style="list-style-type: none"> (1) Receive a NTSC circle pattern signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. POSITION in the same way as for "PAL V. POSITION".
				

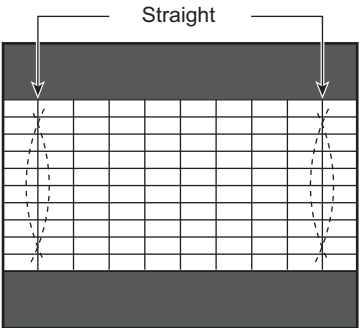
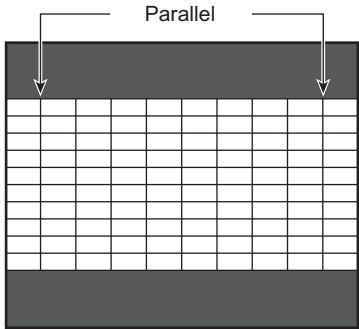
Item	Measuring instrument	Test point	Adjustment part	Description
V. HEIGHT adjustment	Signal generator Remote control unit		[3. DEF] 2. VER. HEIGHT 13. V. ZOOM	<p>– PAL V. HEIGHT –</p> <ol style="list-style-type: none"> (1) Receive a PAL cross-hatch signal. (2) Select 2. VER. HEIGHT. (3) Set the initial setting value of 2. VER. HEIGHT. (4) Select 13. V. ZOOM. (5) Set the initial setting value of 13. V. ZOOM. (6) Adjust 13. V. ZOOM and make the vertical screen size 92% of the picture size. <p>– NTSC V. HEIGHT –</p> <ol style="list-style-type: none"> (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC V. HEIGHT in the same way as for “PAL V. HEIGHT”.
				
H. POSITION adjustment	Signal generator Remote control unit		[3. DEF] 5. HOR. POSITION	<p>– PAL H. POSITION –</p> <ol style="list-style-type: none"> (1) Receive a PAL circle pattern signal. (2) Select 5. HOR. POSITION. (3) Set the initial setting value of 5. HOR. POSITION. (4) Adjust 5. HOR. POSITION to make “C = D”. <p>– NTSC H. POSITION –</p> <ol style="list-style-type: none"> (1) Receive a NTSC circle pattern signal. (2) Make similar adjustment of NTSC H. POSITION in the same way as for “PAL H. POSITION”.
				
H. WIDTH adjustment	Signal generator Remote control unit		[3. DEF] 6. HOR. WIDTH	<p>– PAL H. WIDTH –</p> <ol style="list-style-type: none"> (1) Receive a PAL cross-hatch signal. (2) Select 6. HOR. WIDTH. (3) Set the initial setting value of 6. HOR. WIDTH. (4) Adjust 6. HOR. WIDTH and make the horizontal screen size 91% of the picture size. <p>– NTSC H. WIDTH –</p> <ol style="list-style-type: none"> (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC H. WIDTH in the same way as for “PAL H. WIDTH”.
				

Item	Measuring instrument	Test point	Adjustment part	Description
SIDE PIN adjustment	Signal generator		[3. DEF] 7. EW-PIN	– PAL SIDE PIN – (1) Receive a PAL cross-hatch signal. (2) Select 7. EW-PIN . (3) Set the initial setting value of 7. EW-PIN . (4) Adjust 7. EW-PIN so that the first vertical lines at the left and right edges on the screen are straight. – NTSC SIDE PIN – (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC SIDE PIN in the same way as for “PAL SIDE PIN”.
	Remote control unit			
				
TRAPEZIUM adjustment	Signal generator		[3.DEF] 8. EW-TRAPEZ	– PAL TRAPEZIUM – (1) Receive a PAL cross-hatch signal. (2) Select 8. EW-TRAPEZ . (3) Set the initial setting value of 8. EW-TRAPEZ . (4) Adjust 8. EW-TRAPEZ so that the vertical lines at the left and right edges on the screen are in parallel. – NTSC TRAPEZIUM – (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC TRAPEZIUM in the same way as for “PAL TRAPEZIUM”.
	Remote control unit			
				
V.S-CURVE adjustment	Signal generator		[3. DEF] 4. VER. SCURVE	– PAL V. S-CURVE – (1) Receive a PAL cross-hatch signal. (2) Select 4. VER. SCURVE . (3) Set the initial setting value of 4. VER. SCURVE . (4) Adjust 4. VER. SCURVE so that the spaces of each line on TOP, CENTRE and BOTTOM become uniform. – NTSC V. S-CURVE – (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC V. S-CURVE in the same way as for “PAL V. S-CURVE”.
	Remote control unit			
				

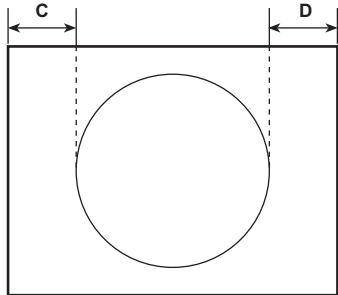
Item	Measuring instrument	Test point	Adjustment part	Description
CORNER adjustment	Signal generator Remote control unit		[3. DEF] 9. UP CORNER 10. DW CORNER	<p>– PAL CORNER –</p> <ol style="list-style-type: none"> (1) Receive a PAL cross-hatch signal. (2) Select 9. UP CORNER. (3) Set the initial setting value of 9. UP CORNER. (4) Select 10. DW CORNER. (5) Set the initial setting value of 10. DW CORNER. (6) Adjust 9. UP CORNER and 10. DW CORNER so that the vertical lines at the four corners on the screen are straight. <p>– NTSC CORNER –</p> <ol style="list-style-type: none"> (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC CORNER in the same way as for “PAL CORNER”.
H. PARALLEL adjustment	Signal generator Remote control unit		[3. DEF] 11. HOR. PARALL	<p>– PAL H. PARALLEL –</p> <ol style="list-style-type: none"> (1) Receive a PAL cross-hatch signal. (2) Select 11. HOR. PARALL. (3) Set the initial setting value of 11. HOR. PARALL. (4) Adjust 11. HOR. PARALL to optimize the parallelogram distortion. <p>– NTSC H. PARALLEL –</p> <ol style="list-style-type: none"> (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC H. PARALLEL in the same way as for “PAL H. PARALLEL”.
H. BOW adjustment	Signal generator Remote control unit		[3. DEF] 12. HOR. BOW	<p>– PAL H. BOW –</p> <ol style="list-style-type: none"> (1) Receive a PAL cross-hatch signal. (2) Select 12. HOR. BOW. (3) Set the initial setting value of 12. HOR. BOW. (4) Adjust 12. HOR. BOW to optimize the horizontal arc distortion. <p>– NTSC H. BOW –</p> <ol style="list-style-type: none"> (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC H. BOW in the same way as for “PAL H. BOW”. (3) Press the [DISPLAY] key twice to return to the normal screen.
				

■ COMPRESS : ON (16:9), fv: 50Hz/60Hz mode

Item	Measuring instrument	Test point	Adjustment part	Description
V. HEIGHT adjustment	Signal generator Remote control unit		[3.DEF] 13. V. ZOOM 2. VER. HEIGHT	<p>– PAL V. HEIGHT –</p> <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. (5) Select 2. VER. HEIGHT. (6) Set the initial setting value of 2. VER. HEIGHT. (7) Adjust 2. VER. HEIGHT to set the vertical amplitude of the image to 305mm. <p>– NTSC V. HEIGHT –</p> <ol style="list-style-type: none"> (1) Receive a NTSC cross-hatch signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. HEIGHT in the same way as for “PAL V. HEIGHT”.
				
V. SLOPE adjustment	Signal generator Remote control unit		[3.DEF] 1. VER. SLOPE	<p>– PAL V. SLOPE –</p> <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. (4) Set the initial setting value of 1. VER. SLOPE. (5) Adjust 1. VER. SLOPE to make “A = B”. (6) Press the [DISPLAY] key to return to SERVICE MENU screen. <p>– NTSC V. SLOPE –</p> <ol style="list-style-type: none"> (1) Receive a NTSC circle pattern signal of vertical frequency 60Hz. (2) Make similar adjustment of NTSC V. SLOPE in the same way as for “PAL V. SLOPE”.
				

Item	Measuring instrument	Test point	Adjustment part	Description
SIDE PIN adjustment	Signal generator Remote control unit		[3. DEF] 7. EW-PIN	<p>– PAL SIDE PIN –</p> <ol style="list-style-type: none"> (1) Receive a PAL cross-hatch signal. (2) Select 7. EW-PIN. (3) Set the initial setting value of 7. EW-PIN. (4) Adjust 7. EW-PIN so that the first vertical lines at the left and right edges on the screen are straight. <p>– NTSC SIDE PIN –</p> <ol style="list-style-type: none"> (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC SIDE PIN in the same way as for “PAL SIDE PIN”.
				
TRAPEZIUM adjustment	Signal generator Remote control unit		[3. DEF] 8. EW-TRAPEZ	<p>– PAL TRAPEZIUM –</p> <ol style="list-style-type: none"> (1) Receive a PAL cross-hatch signal. (2) Select 8. EW-TRAPEZ. (3) Set the initial setting value of 8. EW-TRAPEZ. (4) Adjust 8. EW-TRAPEZ so that the vertical lines at the left and right edges on the screen are in parallel. <p>– NTSC TRAPEZIUM –</p> <ol style="list-style-type: none"> (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC TRAPEZIUM in the same way as for “PAL TRAPEZIUM”.
				
CORNER adjustment	Signal generator Remote control unit		[3. DEF] 9. UP CORNER 10. DW CORNER	<p>– PAL CORNER –</p> <ol style="list-style-type: none"> (1) Receive a PAL cross-hatch signal. (2) Select 9. UP CORNER. (3) Set the initial setting value of 9. UP CORNER. (4) Select 10. DW CORNER. (5) Set the initial setting value of 10. DW CORNER. (6) Adjust 9. UP CORNER and 10. DW CORNER so that the vertical lines at the four corners on the screen are straight. <p>– NTSC CORNER –</p> <ol style="list-style-type: none"> (1) Receive a NTSC cross-hatch signal. (2) Make similar adjustment of NTSC CORNER in the same way as for “PAL CORNER”. (3) Press the [DISPLAY] key twice to return to the normal screen.

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

Item	Measuring instrument	Test point	Adjustment part	Description
H. POSITION adjustment	Signal generator Remote control unit		[3. DEF] 5. HOR. POSITION	(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 . (5) Set the initial setting value of 5. HOR. POSITION . (6) Adjust 5. HOR POSITION to make " C=D ". (7) Press the [DISPLAY] key twice to return to the normal screen.
				

4.6.6 VSM PRESET SETTING

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

4.6.7 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	10
20. PEAK	0 – 3	3
21. IVG	0/1	1
22. WPL	0 – F	5
23. SOFT CLIPPER	0 – 3	3
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
29. SUB BASS	-6 – +6	0
30. SUB TREBLE	-6 – +6	-4
31. SUB TRIMMER	0 – 6	0
32. CCCLOOP	0 – 4	0
33. OSD BRIGHTNESS	0 – 15	0

SECTION 5 TROUBLESHOOTING

5.1 SELF CHECK FUNCTIONS

5.1.1 OUTLINE

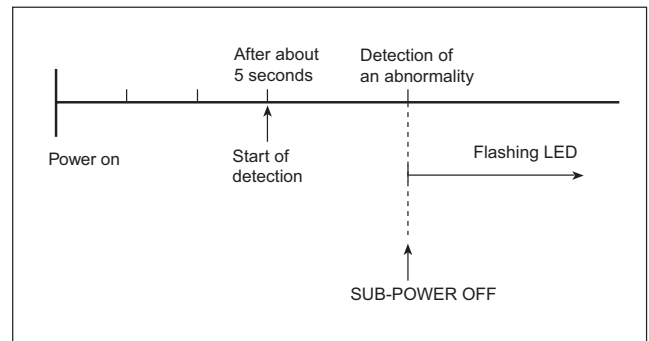
This model has self check functions given below. When an abnormality has been detected, the SUB POWER is turned off and POWER LED flash to inform of the failure. An abnormality is detected by the signal input state of the control line connected to the microcomputer.

5.1.2 SELF CHECK ITEMS

Check item	Details of detection	Method of detection	State of abnormality
B1 over-current protection	An over-current on the low B1 line is detected.	The main microcomputer detects the possible abnormality at 30-msec. intervals and judges the results in every 16 time. Of the 16 times, if NG is detected more than 9 times, it is judged that there is an abnormality.	When an abnormality has been detected, the SUB-POWER is turned off. While the SUB-POWER is being turned off, the POWER key on the remote control unit is not operational until the power cord is taken out and put in again.
CRT neck protection	Operation of CRT neck protection circuit	DITTO	DITTO

5.1.3 SELF CHECK INDICATING FUNCTION

When an abnormality has been detected at about 5 seconds after the power is turned on, the SUB POWER is turned off immediately and the LED flash.



[INDICATION BY THE POWER LED]

Item	LED flashing intervals	Priority of detection
[1] B1 over-current protection	At 0.2-second intervals	1
[2] CRT neck protection	At 1-second intervals	2

Note: In case of [1] + [2], the item [1] is indicated.



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. 52197)



Printed in Japan
WPC



COLOUR TELEVISION

INSTRUCTIONS

Thank you for buying this JVC colour television.
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

S series:

AV-21VS21
AV-21WS21
AV-25VS21
AV-29VS21
AV-29WS21

X series:

AV-21VX71
AV-21WX11
AV-21YX11
AV-25VX71
AV-29VX71
AV-29WX11



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GGT0012-001C-H
0403-NIC-JMT

Safety precautions

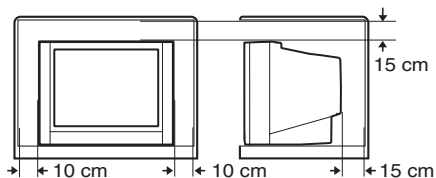
WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS TV.

- Operate only from the power source specified on the TV.
- Avoid damaging the power cord and main plug. When you unplug the TV, pull it out by the main plug. Do not pull on the power cord.
- Never block or cover the cabinet opening for ventilation. Never install the TV where good ventilation is unattainable. When installing this TV, leave spaces for ventilation around the TV more than the minimum distances shown in the diagram.
- Do not allow objects or liquid into the cabinet openings.
- In the event of a fault, unplug the TV and bring to JVC service centre. Do not attempt to repair it by yourself or remove the rear cover.
- The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.
- When you don't use this TV for a long period of time, be sure to disconnect the power plug from the AC outlet.
- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



WARNING

< AV-21WS21/AV-21WX11/AV-21YX11 only >

A removable plastic cover is fixed to the television's front Audio/Video connector. To prevent this cover from being accidentally swallowed by babies or children, remove it from the television and store it in a safe place. If the cover is swallowed seek the advice of a doctor immediately.

Preparation

1 Insert the batteries into the remote control

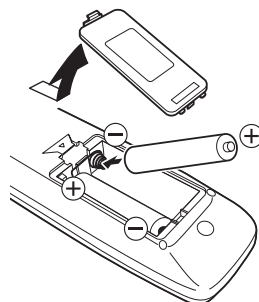
Correctly insert two batteries, observing the \oplus and \ominus polarities and inserting the \ominus end first.

CAUTION:

Follow the cautions printed on the batteries.

Notes:

- Use AA/R6/UM-3 dry cell batteries.
- If the remote control does not work properly, fit new batteries.
The supplied batteries are for testing, not regular use.

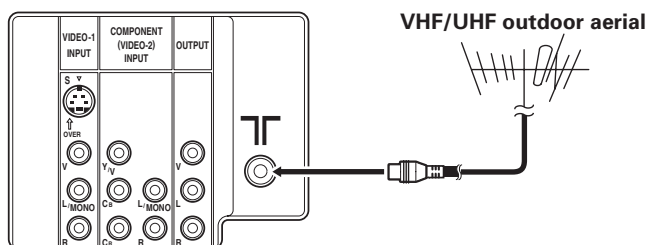


Preparation

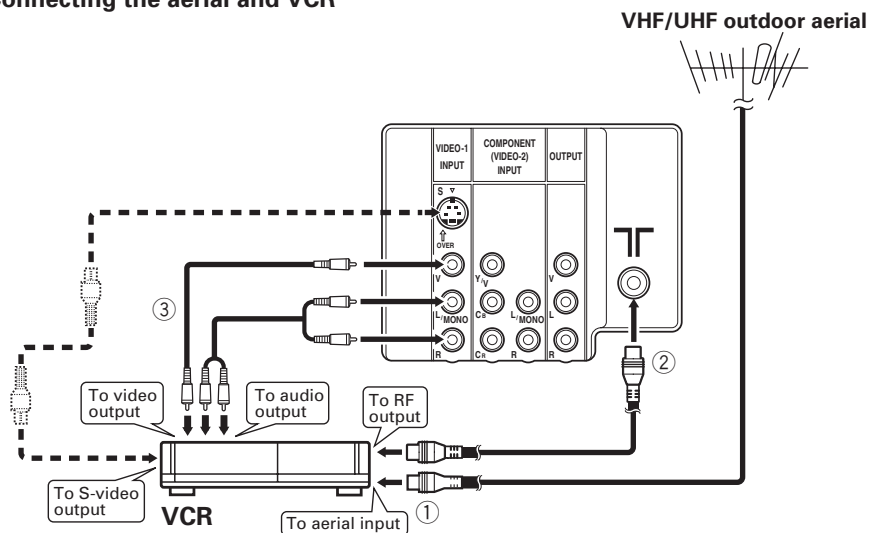
2 Connecting the aerial and VCR

- Read the manuals provided with the devices. Depending on the device, the connection method may be different from the diagrams. Also the device settings may need to change depending on the connection method.
- Turn off all the devices including the TV.
- Connecting cables are not supplied.
- When connecting monaural audio to the TV, use the L/MONO jack.
- You can connect an S-VIDEO compatible device (such as an S-VHS VCR) to the S-contractor with an S-VIDEO cable and enjoy the high quality picture of the S-VIDEO signal (Y/C signal). In that case, do not connect it to the TV with a video cable.
- If you connect the VCR to the TV only with an aerial cable, you should preset the video channel from the VCR to the AV channel (channel number 0) on this TV. See “MANUAL CH PRESET” on page 20 and preset it manually.

Connecting the aerial



Connecting the aerial and VCR

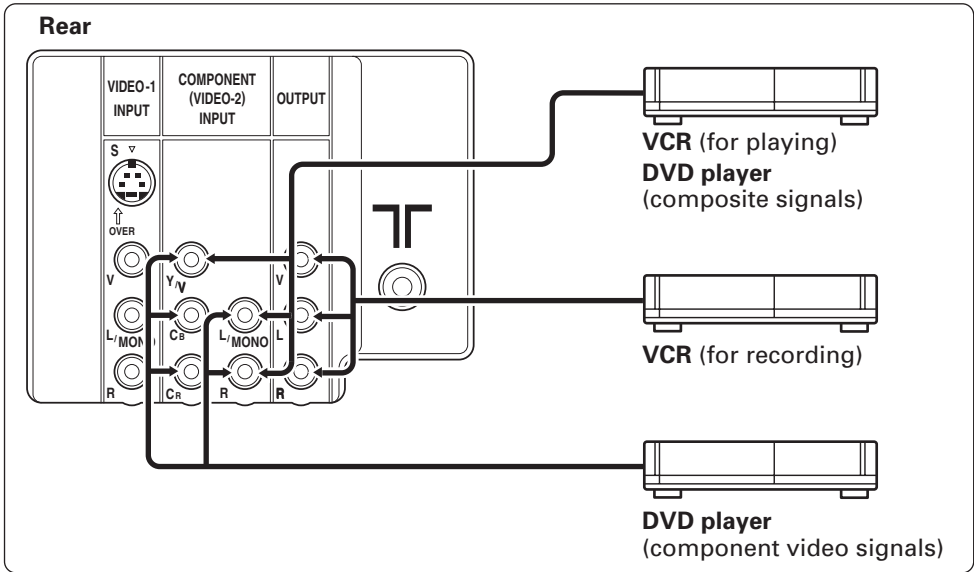
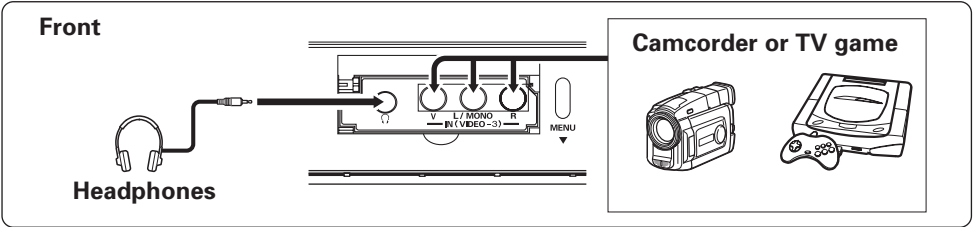


Preparation

3 Connecting other devices

If you are not connecting any other devices, skip step 3 and perform step 4.

- Use the headphones with a stereo mini jack (3.5 mm in diameter). When you connect the headphones, the TV speakers go off.
- The OUTPUT terminal outputs the video and sound signals which you are viewing on the TV. You can dub them onto the VCR connected to the OUTPUT terminal.
(The OUTPUT terminal cannot output S-VIDEO signals or component video signals. Also it cannot output any signals when the TV is turned off.)
- Connect components outputting a component signal (Y/C_B/C_R signal), such as a DVD player, to the VIDEO-2 terminal, and set VIDEO-2 SET function to “COMPONENT”. (See page 18.)
- The following illustrations are for the AV-21VX71. Your TV’s front and rear panels may not look exactly like the illustrations.



4 Connect the power cord to the AC outlet

Operate only from the power source indicated on the rear of the TV.

5 SETUP TOUR

When the TV is first turned on it enters the SETUP TOUR mode, and the JVC logo is displayed. Follow the instructions on the on-screen display to perform the SETUP TOUR.

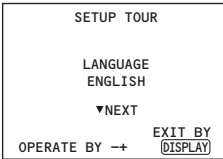
- In case of resetting that the reason for such as removal, you can set the AUTO CH PRESET function on the “MENU 3” menu. For details, see page 19.

1 Press the Main power button on the TV.

The POWER lamp lights. After the JVC logo has been displayed, the TV automatically switches to the language setting mode.



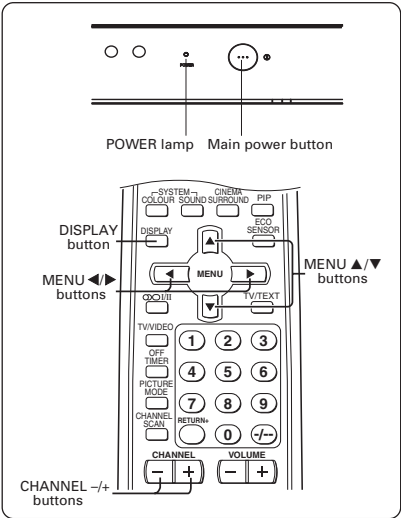
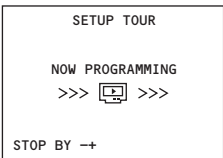
2 Press the CHANNEL +/- or the MENU </> buttons to select the on-screen language.



3 Press the CHANNEL +/- or the MENU </> buttons to select the teletext language group. For details, see page 21. (For AV-21WX11, AV-29WX11 and AV-21YX11 series will skip this step.)



4 The AUTO PROGRAMMING function will start and the indicator blinks.

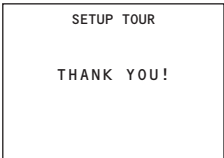


- To stop the AUTO PROGRAMMING function, press the CHANNEL +/- or the MENU </> buttons.

When all the TV channels that can be received on your TV have been preset, the display goes out and the AUTO PROGRAMMING function operation is completed.

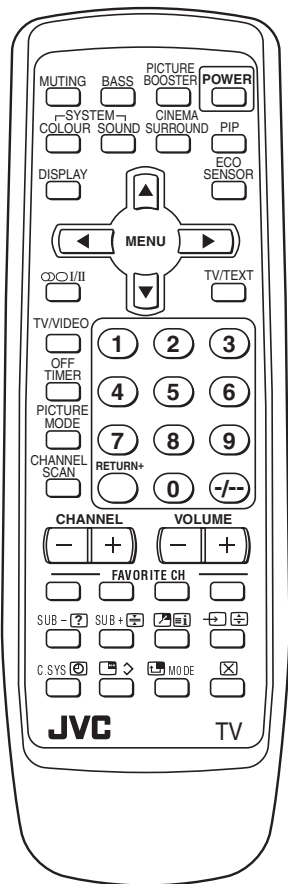
- If a TV channel you want to view is not set to the channel, set it with the MANUAL CH PRESET function. For details, see page 20.

5 Upon the completion of AUTO PROGRAMMING function, the message below is displayed.



Basic operation

Your remote control may not look exactly like the illustration.



Note: For the function buttons available for your TV set, please refer to which Remote Control you have (See page 7 for details).

1 Press the **POWER** button to turn your TV on.

- If your TV does not turn on, press the Main power button on the TV then press the POWER button again.
- You can also turn on your TV by pressing any of the following buttons;
 - the CHANNEL \pm button
 - the Number buttons
 - the TV/VIDEO button

2 Select a channel.

- Press the CHANNEL \pm button.
 - Up/down selection cannot be selected for channels to which the SKIP has been set to "YES". See page 21.
- Press the Number buttons to enter the channel number.
 - If you want to enter a two-digit number, press the \pm button to select the two digit mode "--", then enter the channel number.

3 Press the **VOLUME** \pm button to adjust the sound.

4 To turn your TV off, press the **POWER** button.

- We recommend that you press the Main power button on the TV to turn the main power off if you do not plan to use your TV for a long time or if you wish to save energy.

If the picture is not clear:

Press the COLOUR SYSTEM button to select another colour system, see page 8.

If the sound is not clear:

Press the SOUND SYSTEM button to select another sound system, see page 8.












Viewing Images from an External Device:

Press the TV/VIDEO button to select the VIDEO mode.

- You can also use the INPUT function to select the VIDEO mode. For details, refer to page 16.

Remote control buttons and functions

Cross Reference table for TV set and Remote Control

TV set		AV-21VS21 AV-21WS21 AV-25VS21 AV-29VS21 AV-29WS21	AV-21VX71 AV-25VX71 AV-29VX71	AV-21WX11 AV-29WX11	AV-21YX11	Refer to page no.
REMOTE CONTROL		RM-C1301	RM-C1302	RM-C1306	RM-C1310	
MUTING		○	○	○	○	8
PICTURE BOOSTER		–	–	–	○	8
COLOUR SYSTEM		○	○	○	○	8
SOUND SYSTEM		○	○	○	○	8
CINEMA SURROUND		○	○	○	○	8
DISPLAY		○	○	○	○	9
ECO SENSOR		○	○	○	○	9
∞○I/II		○	–	–	–	9
TV/VIDEO		○	○	○	○	6
OFF TIMER		○	○	○	○	9
PICTURE MODE		○	○	○	○	10
CHANNEL SCAN		○	○	○	○	10
FAVORITE CH		○	○	○	○	10
RETURN +		○	○	○	○	10
PIP	SUB +/-	–	○	–	–	11
	SWAP 	–	○	–	–	11
	INPUT 	–	○	–	–	11
	C.SYS	–	○	–	–	12
	FREEZE 	–	○	–	–	12
	POSITION 	–	○	–	–	12
TV/TEXT	REVEAL 	○	○	–	–	14
	HOLD 	○	○	–	–	14
	INDEX 	○	○	–	–	14
	SIZE 	○	○	–	–	14
	SUBPAGE 	○	○	–	–	14
	STORE 	○	○	–	–	14
	MODE	○	○	–	–	13
	CANCEL 	○	○	–	–	14

Remote control buttons and functions

MUTING button

You can turn the sound off instantly.

Press this button.

To turn the sound on, press this button again.

PICTURE BOOSTER button

< AV-21YX11 only >

When the picture is unclear because the reception level of the TV signal is low, activating the Picture Booster improves the picture clarity in some situations. Repeatedly press the PICTURE BOOSTER button to select the desired mode.

HIGH:

The Picture Booster is functioning at maximum.

LOW:

The Picture Booster is functioning at minimum.

OFF:

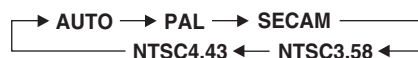
The Picture Booster is off.

- If the picture becomes abnormal when you set the Picture Booster to **HIGH**, then set it to **LOW** or **OFF**.

COLOUR SYSTEM button

If the picture is not clear or no colour appears, change the current colour system to another colour system.

Press this button to select the colour system.



AUTO:

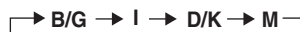
Automatic colour system selection.

- For the colour systems in each country or region, see the table “Broadcasting systems” on page 27.
- If the picture is not normal in the AUTO mode, change the AUTO mode to another colour system.

SOUND SYSTEM button

If the sound is not clear even when the picture appears normal, change the current sound system to another sound system.

Press this button to select the sound system.



- For the sound systems in each country or region, see the table “Broadcasting systems” on page 27.
- You cannot select any sound system when in a VIDEO mode.

CINEMA SURROUND button

You can enjoy an enhanced sound for a wider audience by using CINEMA SURROUND function.

Press this button to select one of the CINEMA SURROUND mode.

HIGH/LOW:

When you listen to the stereo sound, please select HIGH mode or LOW mode. You can enjoy the sound for a wider audience similar to the experience at the theatre.

- In case that you setting up the CINEMA SURROUND function to HIGH mode, there may be slight volume distortion. In case that occurs, please switch the HIGH mode to LOW mode, the effect of CINEMA SURROUND functions will be less noticeable, however, the volume distortion will be corrected.

MONO SURROUND:

Select the MONO SURROUND mode, when you listen to the mono sound. You can enjoy the sound for a wider audience similar to stereo sound.

OFF:

The CINEMA SURROUND function switches off.

Remote control buttons and functions

DISPLAY button

You can continuously display the current channel number or VIDEO mode on the screen.

Press this button.

To turn the display off, press this button again.

- When selecting a VIDEO mode with no signal, indication of the VIDEO mode becomes fixed on the screen.

ECO SENSOR button

You can adjust this TV so that the screen automatically adjusts to the optimum contrast according to the brightness of your room. This function reduces eye strain and the power consumption of this TV.

Press this button to select the desired mode.

AI ECO SENSOR 1:

The AI ECO SENSOR function switches on.

Usually, it is recommended to watch the TV in this mode.

AI ECO SENSOR 2:

The AI ECO SENSOR function switches on.

If you feel the screen in the “AI ECO SENSOR 1” mode is too dark, select this mode.

AI ECO SENSOR OFF:

The AI ECO SENSOR function switches off.

- You can display on the screen the effect of the AI ECO SENSOR function.
For details, see “AI ECO DISPLAY” on page 23.

⊞⊞/I/II button

< S series only >

You can select a sound setting for stereo broadcast programmes and bilingual programmes.

Press this button to select a sound setting.

- ⊞ : Stereo sound
- I : Bilingual I (sub I) sound
- II : Bilingual II (sub II) sound
- : Monaural sound

MONO: Cancels the multi-sound function, and the sound becomes monaural.

- If you have poor reception of a stereo broadcast, you can change from stereo sound (⊞⊞) to monaural sound (○) so that you can hear the broadcast more clearly and easily.
- If the multi-sound function cannot work normally due to poor signal quality, noise may be included in the sound, or the sound may change many times. If this happens, change the sound setting to MONO mode to cancel the multi-sound function.

OFF TIMER button

You can set the TV to automatically turn off after a set time.

Press this button to select the period of time.

- You can set the period of time to a maximum of 120 minutes in 10 minute increments.
- 1 minute before the OFF TIMER function turns off the TV, “GOOD NIGHT!” appears.

To display the remaining time, press this button once.

To cancel the OFF TIMER function, press this button to set the period of time to 0.

- The OFF TIMER function will not turn off the TV's main power.

Remote control buttons and functions

PICTURE MODE button

You can select one of three picture adjustment settings as you like.

Press this button to select a mode.

BRIGHT:

Heightens contrast and sharpness.

STANDARD:

Standardizes picture adjustments.

SOFT:

Softens contrast and sharpness.

- Pressing this button returns all the picture settings in “MENU 4” to their default settings.

CHANNEL SCAN button

You can quickly view all TV channels programmes that you can view on your TV, and search for the programme you want to view.

1 Press this button to start scanning TV channels.

The TV channel programmes are each displayed for several seconds.

- The programmes of TV channels for which the SKIP function is set to “YES” are not displayed.

2 When you find the programme you want to view, press this button again to stop scanning.

FAVORITE CH button

You can correlate 4 channels out of 99 channels (PR01-PR99) with FAVORITE CH buttons RED, GREEN, YELLOW and BLUE.

When not in TEXT mode, press one of the FAVORITE CH buttons for more than 3 seconds to correlate currently watching channel. After the channel and button are correlated, you can directly select favorite channel by the correlated button.

- When MENU is displayed, FAVORITE CH cannot be correlated.
- Correlation of FAVORITE CH button and the channel cannot be reset even though the main power is turned off.

RETURN + button

You can set a channel you frequently view to the Return Channel and you can view that channel at any time with one-touch.

To set the channel to the Return Channel:

- 1 Select the channel you want to set to the Return Channel.**
- 2 Press this button and hold until the message “RETURN PLUS PROGRAMMED!” appears.**

- When you turn off the TV, the Return Channel setting is canceled.

To view the Return Channel:

Press this button.

- You can view two channels (current channel and Return Channel) alternately by pressing this button.

To cancel the Return Channel setting:

Press this button and hold until the message “RETURN PLUS CANCELED!” appears.

If no channel is set to the Return Channel:

You can view the channel selected right before the current channel by pressing this button.

Remote control buttons and functions

PIP button

You can display sub-picture on top of main-picture.

Press this button to display sub-picture.

- When PIP button is pressed while sub-picture is displayed, sub-picture is closed.
- When TV/TEXT button is pressed while sub-picture is displayed, sub-picture is closed and TEXT screen is displayed.
- Only the sound for main-picture is audible using the headphone and the sound for sub-picture is not audible.
- When PIP button is pressed while the main-picture input source is the same as the last sub-picture input source, the input source of sub-picture is automatically changed to the next input source.
- When PIP button is pressed while BLUE BACK function is on and main-picture is not receiving TV signal, BLUE BACK function is disabled.
- When PIP button is pressed while MENU is displayed, MENU is closed and main-picture together with sub-picture on top are displayed.
- PIP button cannot operate in COMPRESS(16:9) mode.

SUB +/- button

When the input source of sub-picture is TV mode and sub-picture is displayed, you can change the channel of sub-picture by this button.

- When the input source of sub-picture is TV mode, pressing of SUB +/- button to effect up/down of channel.
- When the input source of sub-picture is other than TV mode, SUB +/- button is disabled.

SWAP () button

You can swap the input source of main and sub-pictures by this button while sub-picture is displayed.

Press this button to swap the input source of main and sub-pictures so that the image of sub-picture is displayed on main-picture and vice-versa.

INPUT () button

You can select the input source of sub-picture by this button.

Press this button repeatedly to select the desired input source.

- Depending on the input source of main-picture, each press of INPUT button changes the input source of sub-picture as follows:

Main-picture: TV mode

→ VIDEO-1 → VIDEO-2 → VIDEO-3 →

Main-picture: VIDEO-1

→ TV mode → VIDEO-2 → VIDEO-3 →

Main-picture: VIDEO-2

→ TV mode → VIDEO-1 → VIDEO-3 →

Main-picture: VIDEO-3

→ TV mode → VIDEO-1 → VIDEO-2 →

- When the input source of main-picture is set to VIDEO-2 with COMPONENT, PIP button is disabled and sub-picture cannot be displayed.
- When the input source of main-picture is other than VIDEO-2 and VIDEO-2 is set to COMPONENT, the input source of sub-picture cannot select VIDEO-2.
- If main picture and sub-picture are of different colour systems, there will be some difference in the size of the sub-picture and flicker may take place.

C.SYS button

If the sub-picture is not clear or no colour appears, change the current colour system to another colour system.

- Press this button to select the colour system.



- About each selected mode, see “COLOUR SYSTEM button” on page 8.
- When the input of sub-picture is changed to VIDEO mode, the colour system of sub-picture is automatically set to AUTO mode.
- When the input of sub-picture is TV mode, the colour system of sub-picture depends on the colour system of each channel.

FREEZE () button

You can stop the motion of picture (FREEZE status) using this button.

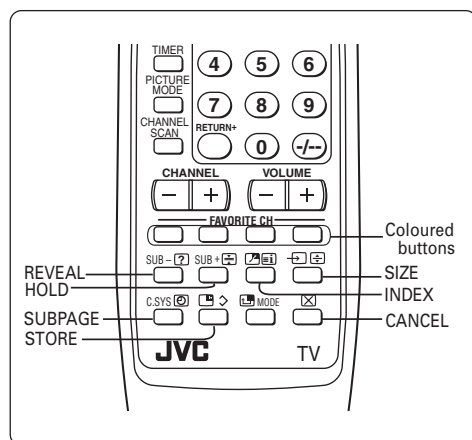
- When FREEZE button is pressed while sub-picture is displayed, the motion of sub-picture is stopped (FREEZE status).
- When any available button is pressed during sub-picture is in FREEZE status, the motion of sub-picture returns to normal, otherwise, the sub-picture remains at FREEZE status.
- When sub-picture is not displayed, FREEZE button is disabled.

POSITION () button

You can move the position of sub-picture to either bottom left, top left, top right or bottom right by this button.

- When PIP is pressed, sub-picture is displayed at the last displayed position. Each press of POSITION button changes the displayed position of sub-picture.

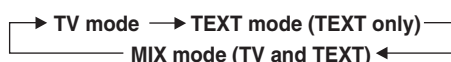
Viewing teletext programmes



Basic operation

- 1 Select a TV channel with a teletext programme.
- 2 Press the TV/TEXT button to change the TV mode to the teletext mode.

The mode cycles as follows:



- 3 Select a teletext page by pressing the CHANNEL -/+ button, Number buttons or coloured buttons.

To return to the TV mode, press the TV/VIDEO button or the TV/TEXT button.

- If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.
- If characters on a teletext programme do not appear properly, change the TELETEXT LANGUAGE setting. For details, see "TEXT LANGUAGE" on page 21.

Using the List Mode

You can store the numbers of your favorite teletext pages in the List mode and call them up quickly using the coloured buttons.

To store the page numbers:

- 1 Press the MODE button to engage the List mode.

The stored page numbers are displayed at the bottom of the screen.

- 2 Press a coloured button to select a position. Then press the Number buttons to enter the page number.

- 3 Press and hold down the STORE button.

The four page numbers blink white to indicate that they are stored in memory.

To call up a stored page:

- 1 Press the MODE button to engage the List mode.

- 2 Press a coloured button to which a page has been assigned.

To exit the List mode, press the MODE button again.

Viewing teletext programmes

REVEAL (?)

Some teletext pages include hidden text (such as answers to a quiz).

You can display the hidden text.

Each time you press the REVEAL button, text is hidden or revealed.

HOLD ()

You can hold a teletext page on the screen for as long as you want, even while several other teletext pages are being received.

Press the HOLD button.

To cancel the HOLD function, press the HOLD button again.

STORE ()

Press this to store the number of your favorite teletext pages in the List mode and call them up quickly using the coloured buttons.

CANCEL ()

You can watch a TV programme even when in the teletext mode.

- 1 Press the Number button to enter a page number, or press a coloured button.**

The TV starts searching for a teletext page.

- 2 Press the CANCEL button.**

The TV programme appears.

When the TV finds the teletext page, its page number appears in the upper left of the screen.

- 3 Press the CANCEL button to view the teletext page.**

- Pressing the CANCEL button cannot change the teletext mode to the TV mode.

INDEX (i)

You can return to the index page instantly.

Press the INDEX button.

In the List mode:

Returns to the page number displayed in the lower left area of the screen.

SUBPAGE ()

Some teletext pages include sub-pages that are automatically displayed.

You can hold any sub-page, or view it at any time.

- 1 Press the SUBPAGE button to operate the Sub-page function.**
- 2 Press the Number buttons to enter a sub-page number.**

Example:

3rd sub-page → press 0, 0, 0 and 3.

- You can also select a sub-page by pressing the red or green button.

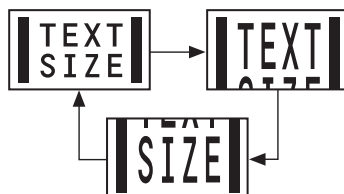
To cancel the Sub-page function, press the SUBPAGE button again.

SIZE ()

You can double the height of the teletext display.

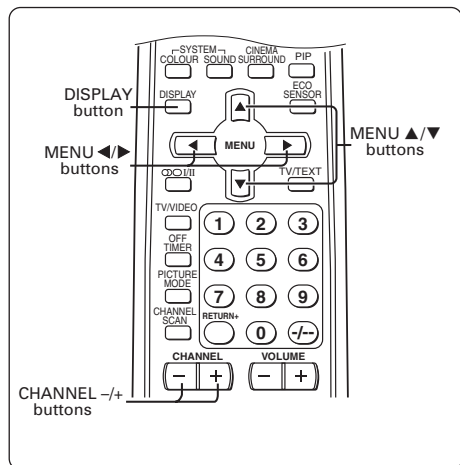
Press the SIZE button.

The teletext display changes cyclically.



Using the TV's menus

This TV has a number of functions you can operate using the menus. To use all your TV's functions fully, you need to understand how to use the menus.



4 Press the CHANNEL +/- or the MENU <|> buttons to change function settings.

Example:

Changes the AUTO SHUTOFF setting.

MENU 2		MENU 2	
☐ AUTO SHUTOFF	OFF	☐ AUTO SHUTOFF	ON
CHILD LOCK	OFF	CHILD LOCK	OFF
BLUE BACK	ON	BLUE BACK	ON
VIDEO-2 SET	COMPONENT	VIDEO-2 SET	COMPONENT
SELECT BY ▼▲ EXIT BY (DISPLAY)		SELECT BY ▼▲ EXIT BY (DISPLAY)	
OPERATE BY →		OPERATE BY →	

- With some functions, the operation method may differ.

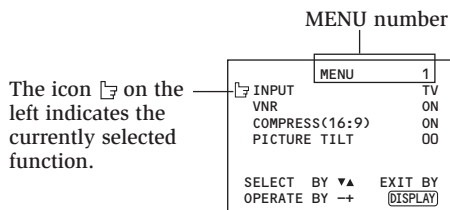
5 Press the DISPLAY button to turn the display off.

- To operate a menu using the buttons on the front panel of the TV, refer to "Operating menus" on page 25.

Basic operation

1 Press the MENU ▲/▼ buttons.

One of the 6 menus is displayed.



2 Repeatedly press the MENU ▲/▼ buttons to display a desired menu.

- If you hold down the ▼ button, the next menu is displayed.
- If the selected function is on the first line, pressing the ▲ button displays the preceding menu.

3 Repeatedly press the MENU ▲/▼ buttons to select a desired function.

Using the TV's menus

INPUT

You can view images from VCRs or other devices connected to your TV.

- 1 Press **MENU ▲/▼** to display the "MENU 1" menu, then select "INPUT".

MENU	1
INPUT	TV
VNR	ON
COMPRESS(16:9)	ON
PICTURE TILT	00
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ [DISPLAY]	

- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select "VIDEO-1", "VIDEO-2" or "VIDEO-3".

TV mode changes to VIDEO mode.

PICTURE TILT

< AV-29VS21/AV-29WS21/AV-29VX71/AV-29WX11 only >

There are cases where the Earth's magnetic force may make the picture tilt. If this happens, you can correct the picture tilt.

- 1 Press **MENU ▲/▼** to display the "MENU 1" menu, then select "PICTURE TILT".

MENU	1
INPUT	TV
VNR	ON
COMPRESS(16:9)	ON
PICTURE TILT	00
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ [DISPLAY]	

- 2 Continue pressing **CHANNEL -/+** or **MENU ◀/▶** until the picture becomes level.

VNR

You can reduce picture noise.

- 1 Press **MENU ▲/▼** to display the "MENU 1" menu, then select "VNR".

MENU	1
INPUT	TV
VNR	ON
COMPRESS(16:9)	ON
PICTURE TILT	00
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ [DISPLAY]	

- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select "ON".

To cancel the VNR function, select "OFF".

COMPRESS (16:9)

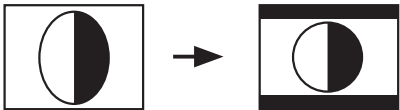
This function converts a normal picture (4:3 aspect ratio) into a wide picture (16:9 aspect ratio).

Use for pictures with a 16:9 aspect ratio that have been squeezed into a normal picture (4:3 aspect ratio), to restore their original dimensions.

- 1 Press **MENU ▲/▼** to display the "MENU 1" menu, then select "COMPRESS (16:9)".

MENU	1
INPUT	TV
VNR	ON
COMPRESS(16:9)	ON
PICTURE TILT	00
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ [DISPLAY]	

- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select "ON".



To cancel the COMPRESS (16:9) function, select "OFF".

- If COMPRESS (16:9) is changed to ON while sub-picture is displayed, the sub-picture will automatically be deleted.

Using the TV's menus

AUTO SHUTOFF

You can set your TV to turn off if no signals are received for about 15 minutes or longer after the end of a broadcast.

- 1 Press **MENU ▲/▼** to display the "MENU 2" menu, then select "AUTO SHUTOFF".

MENU	2
AUTO SHUTOFF	ON
CHILD LOCK	ON
BLUE BACK	ON
VIDEO-2 SET	COMPONENT
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ (DISPLAY)	

- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select "ON".

To cancel the AUTO SHUTOFF function, select "OFF".

- The AUTO SHUTOFF function does not turn off the TV's main power.
- The AUTO SHUTOFF will not work for a VIDEO mode.

CHILD LOCK

You can disable the front control buttons of the TV.

When this function is set to "ON", the TV can be operated using only the remote control.

Use this function to prevent children from operating the TV without parental consent.

- 1 Press **MENU ▲/▼** to display the "MENU 2" menu, then select "CHILD LOCK".

MENU	2
AUTO SHUTOFF	ON
CHILD LOCK	ON
BLUE BACK	ON
VIDEO-2 SET	COMPONENT
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ (DISPLAY)	

- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select "ON".

To cancel the CHILD LOCK function, select "OFF".

- The CHILD LOCK function is canceled when you turn the power off.

BLUE BACK

If no signal is being received or the signal is very weak, a blue back screen automatically becomes the picture background.

If you wish to continue viewing the poor picture, you must set the BLUE BACK function to "OFF".

- 1 Press **MENU ▲/▼** to display the "MENU 2" menu, then select "BLUE BACK".

MENU	2
AUTO SHUTOFF	ON
CHILD LOCK	ON
BLUE BACK	ON
VIDEO-2 SET	COMPONENT
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ (DISPLAY)	

- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select "ON".

To cancel the BLUE BACK function, select "OFF".

Using the TV's menus

VIDEO-2 SET

Set the VIDEO-2 SET correctly according to the video signal input from the external device connected to the VIDEO-2 terminal. If this setting is incorrect, images will not be displayed.

- 1 Press **MENU ▲/▼** to display the "MENU 2" menu, then select "VIDEO-2 SET".

MENU	2
AUTO SHUTOFF	ON
CHILD LOCK	ON
BLUE BACK	ON
VIDEO-2 SET	COMPONENT
SELECT BY ▼▲	EXIT BY
OPERATE BY →	DISPLAY

- 2 Set the VIDEO-2 SET according to the video signal input from the VIDEO-2 terminal.

If a normal video signal (composite video signal) is input:

Press the CHANNEL -/+ or the MENU ◀/▶ buttons to select "VIDEO".

If a component video signal (Y/C_B/C_R signals) is input:

Press the CHANNEL -/+ or the MENU ◀/▶ buttons to select "COMPONENT".

Picture Adjustments

You can adjust the picture as you like.

- 1 Press **MENU ▲/▼** to display the "MENU 4" menu.

MENU	4
TINT
COLOUR
BRIGHT
CONT
SHARP
SELECT BY ▼▲	EXIT BY
OPERATE BY →	DISPLAY

- 2 Press **MENU ▲/▼** to select an item and press **CHANNEL -/+** or **MENU ◀/▶** to adjust it.

TINT*	- : Reddish	+ : Greenish
COLOUR	- : Lighter	+ : Deeper
BRIGHT	- : Darker	+ : Brighter
CONT	- : Lower	+ : Higher
SHARP	- : Softer	+ : Sharper

* TINT (tint) is displayed only when viewing images from NTSC3.58 or NTSC4.43 colour systems.

Sound Adjustments

You can adjust the sound as you like.

- 1 Press **MENU ▲/▼** to display the "MENU 5" menu.

MENU	5
BASS
TREBLE
BALANCE
AI VOLUME	ON
SELECT BY ▼▲	EXIT BY
OPERATE BY →	DISPLAY

- 2 Press **MENU ▲/▼** to select an item and press **CHANNEL -/+** or **MENU ◀/▶** to adjust it.

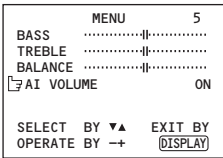
BASS	- : Weaker	+ : Stronger
TREBLE	- : Weaker	+ : Stronger
BALANCE	- : Left	+ : Right

Using the TV's menus

AI VOLUME

You can prevent the sudden increase or decrease of volume that occurs when changing channels or switching VIDEO modes.

- 1 Press MENU ▲/▼ to display the "MENU 5" menu, then select "AI VOLUME".



- 2 Press CHANNEL -/+ or MENU ◀/▶ to select "ON".

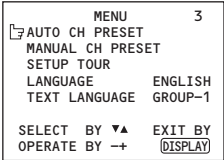
To cancel the AI VOLUME function, select "OFF".

- The AI VOLUME function may not operate as expected if the sound input level from a broadcast station (or video software) is extremely low.
- The AI VOLUME function for TV mode and VIDEO mode can be set separately. For example, you can set it to be off in TV mode and on in VIDEO mode. If you set the AI VOLUME function while viewing a TV channel, the setting is registered as the setting for TV mode. If you set the AI VOLUME function while viewing images from a VIDEO terminal, the setting is registered as the setting for VIDEO mode.

AUTO CH PRESET

You can automatically preset all TV channels that can be received by your TV to channels.

- 1 Press MENU ▲/▼ to display the "MENU 3" menu, then select "AUTO CH PRESET".



- 2 Press CHANNEL -/+ or MENU ◀/▶ to start the AUTO CH PRESET function.

">>> ON SEARCH" is displayed on the screen.

When all the TV channels that can be received on your TV have been preset, the display goes out and the AUTO CH PRESET function operation is completed.

To stop the AUTO CH PRESET:

Press the CHANNEL -/+ or the MENU ◀/▶ buttons.

- The AUTO CH PRESET function does not preset a TV channel to the AV channel (channel number 0).
- If the TV cannot preset the TV channel you want to view, preset it manually. For details, see "MANUAL CH PRESET" on page 20.

Using the TV's menus

MANUAL CH PRESET

You can manually preset desired TV channels to desired channels.

- 1 Press **MENU ▲/▼** to display the “MENU 3” menu, then select “MANUAL CH PRESET”.

MENU 3	
AUTO CH PRESET	
[F] MANUAL CH PRESET	
SETUP TOUR	
LANGUAGE	ENGLISH
TEXT LANGUAGE	GROUP-1
SELECT BY ▼▲	EXIT BY
OPERATE BY →←	[DISPLAY]

- 2 Press **CHANNEL -/+** or **MENU ◀/▶**.
The sub-menu is displayed.

[F] MANUAL	
FINE	
SKIP	NO
SOUND SYSTEM	B/G
EXIT	
SELECT BY ▼▲	PR 1 VL
PROGRAM BY →←	EXIT BY
SEARCH BY VOL→←	[DISPLAY]

- The channel number is displayed as a PR number. For example, channel 1 will be displayed as PR 1. However, the AV channel will be displayed as AV.

- 3 Press **CHANNEL -/+** to select the channel number.

- 4 Press **VOLUME -/+** to start searching for the TV channel.

“>>>” or “<<<” is displayed on the screen.

When the TV finds a TV channel, the “>>>” or “<<<” display goes out, and the TV channel is preset to the currently selected channel number.

- If the TV channel you want to preset is not displayed, repeat step 4 until the TV finds the TV channel you want to preset.
- To stop the MANUAL CH PRESET function, press any button other than the VOLUME -/+ button.

If the picture is not clear:
Fine-tune the TV channel.

- 1 Press **MENU ▲/▼** to select “FINE”.

MANUAL	
[F] FINE	
SKIP	NO
SOUND SYSTEM	B/G
EXIT	
SELECT BY ▼▲	PR 1 VL
PROGRAM BY →←	EXIT BY
FINE BY VOL→←	[DISPLAY]

- 2 Hold **VOLUME -/+** down to fine-tune the TV channel so that the best image is displayed on screen.
“>” or “<” indicates that the TV is fine-tuning the TV channel.

If the sound is not clear:

- 1 Press **MENU ▲/▼** to select “SOUND SYSTEM”.

MANUAL	
FINE	
SKIP	NO
[F] SOUND SYSTEM	B/G
EXIT	
SELECT BY ▼▲	PR 1 VL
PROGRAM BY →←	EXIT BY
CHANGE BY VOL→←	[DISPLAY]

- 2 Press **VOLUME -/+** to select the appropriate sound system.
 - For the sound systems in each country or region, refer to the table “Broadcasting systems” on page 27.
- 5 Press **MENU ▲/▼** to select “MANUAL”.
- 6 Repeat steps 3 to 5 if you want to preset another TV channel to a channel.

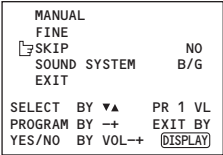
Using the TV's menus

SKIP

You can set undesired channels to be skipped. Channels set to be skipped cannot be selected by the CHANNEL +/- buttons nor the CHANNEL SCAN button.

- Channels to which TV channels have not been preset are automatically set to be skipped.

- 1 Press MENU ▲/▼ to display the "MENU 3" menu, then select "MANUAL CH PRESET".
- 2 Press CHANNEL +/- or MENU ◀/▶. The sub-menu is displayed.
- 3 Press MENU ▲/▼ to select "SKIP".

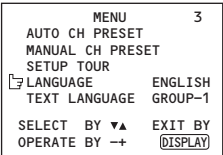


- 4 Press CHANNEL +/- to select the channel you want to skip.
- 5 Press VOLUME +/- to select "YES". The channel is set to be skipped. To cancel the SKIP function, select "NO".
- 6 Repeat steps 4 and 5 if you want to set another channel to skip.

LANGUAGE

You can select the language for the on-screen display.

- 1 Press MENU ▲/▼ to display the "MENU 3" menu, then select "LANGUAGE".



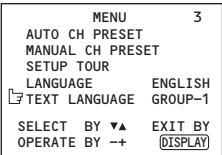
- 2 Press CHANNEL +/- or MENU ◀/▶ to select language.

The on-screen display indications are in the selected language.

TEXT LANGUAGE

You can select one of 5 groups for X71 series or 3 groups for S21 series from the teletext language groups. Set the teletext language group that corresponds to the language of the teletext programme that you want to watch.

- 1 Press MENU ▲/▼ to display the "MENU 3" menu, then select "TEXT LANGUAGE".



- 2 Press CHANNEL +/- or MENU ◀/▶ to select a group.

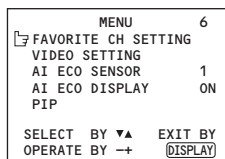
Group	languages
GROUP-1	English, German, Swedish / Finnish / Danish / Hungarian, Italian, French, Spanish / Portuguese, Turkish
GROUP-2	Polish, German, Estonian, Slovenian, Czech / Slovakian, Rumanian
GROUP-3	Polish, German, Estonian, Lettish, Russian, Ukrainian
GROUP-4	English, French, Turkish, Arabic
GROUP-5	English, French, Turkish, Farsi

- Depending on the broadcast, the language set may not display properly.

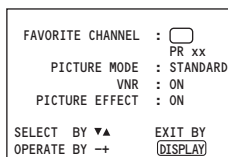
FAVORITE CH SETTING

You can set PICTURE MODE, VNR and PICTURE EFFECT functions for the favorite channels using FAVORITE CH SETTING menu.

- 1 Press **MENU ▲/▼** to display the "MENU 6" menu, then select "FAVORITE CH SETTING".



- 2 Press **CHANNEL -/+** or **MENU ◀/▶**.
The sub-menu is displayed.

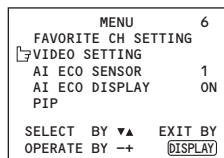


- 3 Press **CHANNEL -/+** to select one of the colours of "RED", "GREEN", "YELLOW" or "BLUE" assigned to FAVORITE CH button.
- 4 Press **MENU ▲/▼** to select "PICTURE MODE", then press **CHANNEL -/+** to select the picture mode of "BRIGHT", "STANDARD" or "SOFT".
- 5 Press **MENU ▲/▼** to select "VNR", then press **CHANNEL -/+** to select VNR "ON" or "OFF".
- 6 Press **MENU ▲/▼** to select "PICTURE EFFECT", then press **CHANNEL -/+** to select PICTURE EFFECT "ON" or "OFF".
 - PICTURE MODE and VNR settings are changed only when you press the FAVORITE CH button while PICTURE EFFECT is ON.
Otherwise, PICTURE MODE and VNR are not changed.

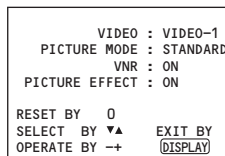
VIDEO SETTING

You can set PICTURE MODE, VNR and PICTURE EFFECT functions for VIDEO mode using VIDEO SETTING menu.

- 1 Press **MENU ▲/▼** to display the "MENU 6" menu, then select "VIDEO SETTING".



- 2 Press **CHANNEL -/+** or **MENU ◀/▶**.
The sub-menu is displayed.



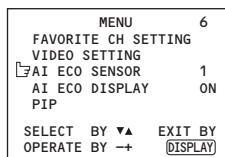
- 3 Press **CHANNEL -/+** to select "VIDEO-1", "VIDEO-2" or "VIDEO-3".
- 4 Press **MENU ▲/▼** to select "PICTURE MODE", then press **CHANNEL -/+** to select the picture mode of "BRIGHT", "STANDARD" or "SOFT".
- 5 Press **MENU ▲/▼** to select "VNR", then press **CHANNEL -/+** to select VNR "ON" or "OFF".
- 6 Press **MENU ▲/▼** to select "PICTURE EFFECT", then press **CHANNEL -/+** to select PICTURE EFFECT "ON" or "OFF".
 - PICTURE MODE and VNR settings are changed only when VIDEO input mode is selected while PICTURE EFFECT is ON.
Otherwise, PICTURE MODE and VNR are not changed.
 - Press 0 button to reset the setting.

Using the TV's menus

AI ECO SENSOR

You can enable this function so that the brightness of TV screen is automatically adjusted according to the brightness of your room.

- 1 Press **MENU ▲/▼** to display the "MENU 6" menu, then select "AI ECO SENSOR".



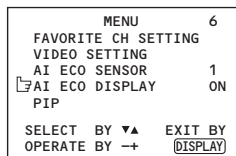
- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select "OFF", "1" or "2".

- For detailed description, see the "ECO SENSOR button" on page 9.

AI ECO DISPLAY

You can display on the screen the effect of the AI ECO SENSOR function.

- 1 Press **MENU ▲/▼** to display the "MENU 6" menu, then select "AI ECO DISPLAY".



- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select "ON".

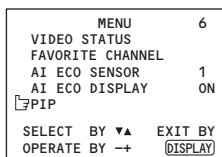
The clover mark indicating the brightness of your room is displayed for several seconds each time the brightness changes. The number of clover marks displayed on screen increases as your room becomes darker. To cancel the AI ECO DISPLAY function, select "OFF".

- To switch the AI ECO SENSOR'S mode, see the "ECO SENSOR button" on page 9.

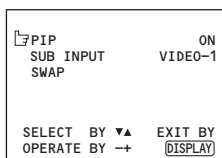
PIP

This function is the same as the function of PIP buttons. For details, refer to page 11 and 12.

- 1 Press **MENU ▲/▼** to display the "MENU 6" menu, then select "PIP".



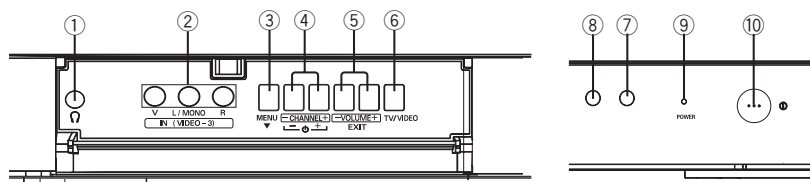
- 2 Press **CHANNEL -/+** or **MENU ◀/▶**. The sub-menu is displayed.



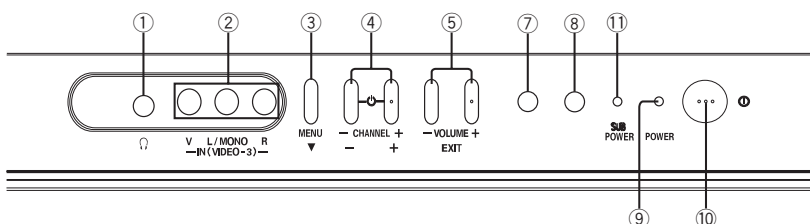
- 3 Press **CHANNEL -/+** or **MENU ◀/▶** to select PIP "ON" or "OFF".
- 4 Press **MENU ▲/▼** to select "SUB INPUT", then press **CHANNEL -/+** or **MENU ◀/▶** to select "TV mode", "VIDEO-1", "VIDEO-2" or "VIDEO-3".
- 5 Press **MENU ▲/▼** to select "SWAP", then press **CHANNEL -/+** or **MENU ◀/▶** to select main or sub-picture.

TV buttons and parts

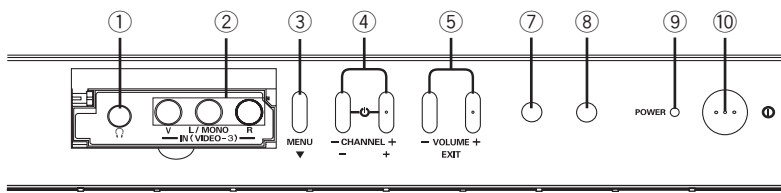
< AV-29VS21/AV-29WS21/AV-29VX71/AV-29WX11 >



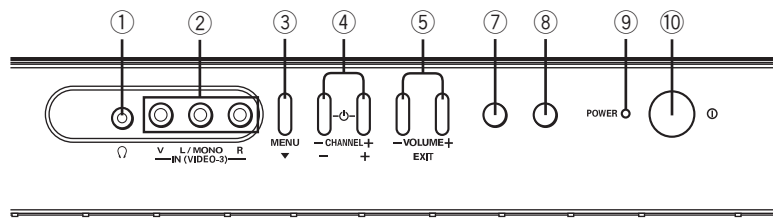
< AV-21YX11 >



< AV-21VS21/AV-21VX71/AV-25VS21/AV-25VX71 >



< AV-21WS21/AV-21WX11 >



- ① Headphone jack
- ② VIDEO-3 terminal
- ③ MENU button
- ④ CHANNEL -/+ buttons
- ⑤ VOLUME -/+ buttons
- ⑥ TV/VIDEO button
- ⑦ ECO sensor
- ⑧ Remote control sensor

- ⑨ POWER lamp
- ⑩ Main power button
- ⑪ SUB POWER lamp

< AV-21YX11 only >

When the main power is switched on, the POWER lamp turns red.

When the TV is turned on (the sub power is on), the SUB POWER lamp turns green.

Using the buttons on the TV

Basic operation

Check to make sure the CHILD LOCK function is set to “OFF”. When the CHILD LOCK function is set to “ON”, the TV cannot be operated using the front control buttons. For details, see “CHILD LOCK” on page 17.

- 1 Press CHANNEL -/+ to turn the TV on from standby mode.
- 2 Press CHANNEL -/+ to select a channel.
- 3 Press VOLUME -/+ to adjust the volume.
- 4 To turn your TV off, press the Main power button to turn off the TV’s main power.

To change the TV mode to the VIDEO mode:

- Press the TV/VIDEO button if the TV has one. See page 6.
- If the TV has no TV/VIDEO button, select the VIDEO mode with the INPUT function in “MENU 1”.

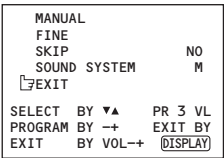
Operating menus

You can operate function in menus using the front control buttons on the TV.

- 1 Press MENU ▼ to display a menu.
- 2 Press MENU ▼ repeatedly to display the menu you want to use.
- 3 Press MENU ▼ to select the desired function or item.
- 4 Press CHANNEL -/+ or VOLUME -/+ to carry out the desired operation.
For details, see the description for each function.
- 5 Press VOLUME -/+ to turn the menu display off.

To turn the sub-menu display off:

- 1 Press MENU ▼ to select “EXIT”.



- 2 Press VOLUME -/+ to turn the display off.

Troubleshooting

If there is no picture or the TV does not operate normally, make sure the problem isn't due to the reasons indicated below.

If the problem persists even after taking the measures indicated, please contact a service technician.

Cannot turn the TV on

- Press the Main power button on the TV.
- Connect the power cord to the AC outlet.

The screen turns blue

- Is the BLUE BACK function on? (see page 17.)

Remote control inoperable

- Replace the batteries. (see page 2.)

Buttons on front of the TV do not work

- Switch the CHILD LOCK function off. (see page 17.)

TV does not respond immediately

- Press the main power button on the TV to turn off the main power. Press the main power button again to turn on the TV. If the TV returns to a normal state, operation is normal.

The TV turns off suddenly

- Is the OFF TIMER function set to operate? (see page 9.)
- Is the AUTO SHUTOFF function on? (see page 17.)

Poor sound

- Press the SOUND SYSTEM button to select another sound system. (see page 8.)
- Adjust the sound settings. (see page 18.)

Poor picture

- Press the COLOUR SYSTEM button to select another colour system. (see page 8.)
- Adjust the picture settings. (see page 18.)
- Is a component signal output device, such as a DVD player, connected correctly? (see page 4.)
- Is the VIDEO-2 SET function setting correct? (see page 18.)
- If noise (snow) totally blocks out the picture, check the following.
 - Have the TV and aerial been connected properly?
 - Has the aerial cable been damaged?
 - Is the aerial pointing in the right direction?
 - Is the aerial itself faulty?
- If the TV or aerial suffer interference from other equipment, stripes or noise may appear in the picture. Move any equipment which can cause interference away from the TV.
- If the TV or aerial suffer interference from signals reflecting from mountains or buildings, double-pictures (ghosting) will occur. Change the aerial's direction or replace it with an aerial with better directionality.
- When a white and bright still image (such as a white dress) is displayed on the screen, the white part may look as if it is coloured. When the image disappears from the screen, the unnatural colours will also disappear.

The picture is tilted

< AV-29VS21/AV-29WS21/AV-29VX71/
AV-29WX11 only >

- A picture may be tilted due to the influence of the earth's magnetism. In this case, use the PICTURE TILT function to adjust the tilt. (see page 16.)

Specifications

TV RF systems

B, G, I, D, K, M

Colour systems

PAL, SECAM, NTSC 3.58 MHz, NTSC 4.43 MHz

Receiving channels

VHF low channel (VL), VHF high channel (VH), UHF channel (U)
Receives cable channels in mid band, super band and hyper band.

External input / output

VIDEO-1: S-video input, VIDEO input, AUDIO L/R input
VIDEO-2/COMPONENT: VIDEO input, AUDIO L/R input,
COMPONENT VIDEO (Y/Cb/Cr) input
VIDEO-3: VIDEO input, AUDIO L/R input
OUTPUT: VIDEO output , AUDIO L/R output
Headphone jack: stereo mini jack (3.5 mm diameter)

Teletext system (AV-21VS21/AV-21WS21/AV-21VX71/ AV-25VS21/AV-25VX71/AV-29VS21/AV-29WS21/AV-29VX71 only)

FLOF (Fastext),WST (World Standard Text)

Language displayed by teletext (AV-21VS21/AV-21WS21/AV-21VX71/ AV-25VS21/AV-25VX71/AV-29VS21/AV-29WS21/AV-29VX71 only)

Please see the table in the description "TEXT LANGUAGE" on page 21.

Design and specifications subject to change without notice.

Broadcasting systems

Area	Country or Region	System	
		Colour	Sound
Asia, Middle East	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc.	PAL	B/G
	Indonesia, Malaysia, Singapore, Thailand, India, etc.		
	China, Vietnam, etc.	PAL	D/K
	Hong Kong, etc.	PAL	I
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	SECAM	B/G
Europe	Philippines, Taiwan, Myanmar, etc.	NTSC	M
	Russia, etc.	SECAM	D/K
	Czech Republic, Poland, etc.	PAL	D/K
	Germany, Holland, Belgium, etc.	PAL	B/G
Oceania	UK, etc.	PAL	I
	Australia, New Zealand, etc.	PAL	B/G
Africa	Republic of South Africa, etc.	PAL	I
	Nigeria, etc.	PAL	B/G
	Egypt, Morocco, etc.	SECAM	B/G





COLOUR TELEVISION

INSTRUCTIONS

Thank you for buying this JVC colour television.

To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

AV-2137V1

AV-2132W1

AV-2132Y1

AV-2537V1

AV-2937V1

AV-2932W1

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3 Connecting other devices	4
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Safety precautions

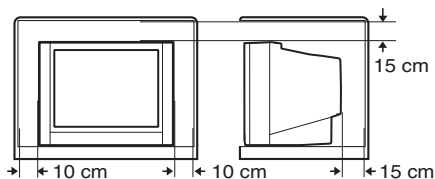
WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS TV.

- Operate only from the power source specified on the TV.
- Avoid damaging the power cord and main plug. When you unplug the TV, pull it out by the main plug. Do not pull on the power cord.
- Never block or cover the cabinet opening for ventilation. Never install the TV where good ventilation is unattainable. When installing this TV, leave spaces for ventilation around the TV more than the minimum distances shown in the diagram.
- Do not allow objects or liquid into the cabinet openings.
- In the event of a fault, unplug the TV and bring to JVC service centre. Do not attempt to repair it by yourself or remove the rear cover.
- The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.
- When you don't use this TV for a long period of time, be sure to disconnect the power plug from the AC outlet.
- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



WARNING

< AV-2132W1 only >

A removable plastic cover is fixed to the television's front Audio/Video connector. To prevent this cover from being accidentally swallowed by babies or children, remove it from the television and store it in a safe place. If the cover is swallowed seek the advice of a doctor immediately.

Preparation

1 Insert the batteries into the remote control

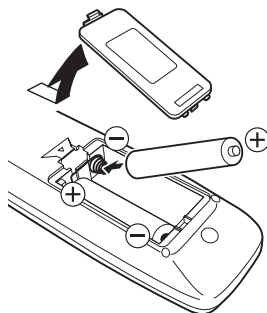
Correctly insert two batteries, observing the \oplus and \ominus polarities and inserting the \ominus end first.

CAUTION:

Follow the cautions printed on the batteries.

Notes:

- Use AA/R6/UM-3 dry cell batteries.
- If the remote control does not work properly, fit new batteries.
The supplied batteries are for testing, not regular use.

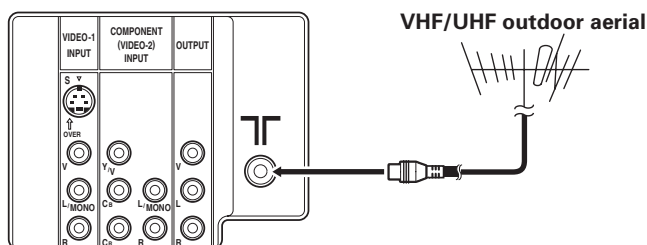


Preparation

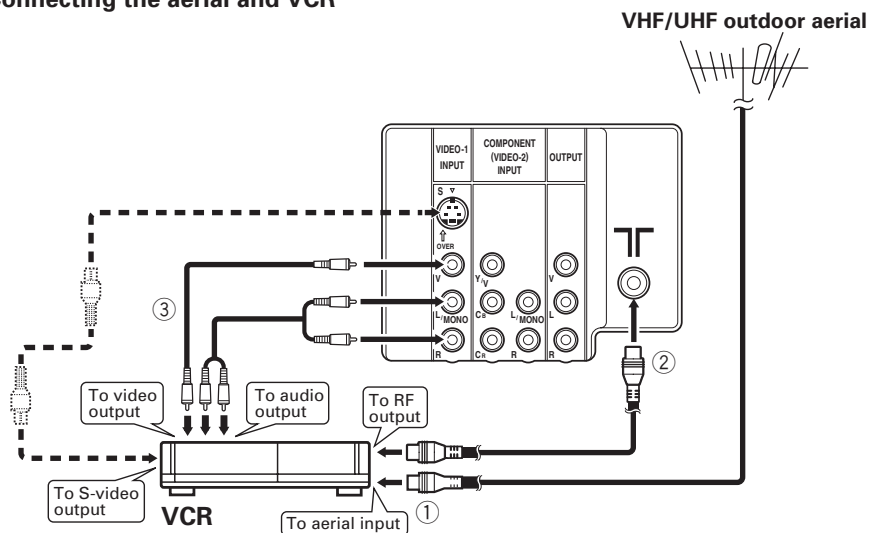
2 Connecting the aerial and VCR

- Read the manuals provided with the devices. Depending on the device, the connection method may be different from the diagrams. Also the device settings may need to change depending on the connection method.
- Turn off all the devices including the TV.
- Connecting cables are not supplied.
- When connecting monaural audio to the TV, use the L/MONO jack.
- You can connect an S-VIDEO compatible device (such as an S-VHS VCR) to the S-connector with an S-VIDEO cable and enjoy the high quality picture of the S-VIDEO signal (Y/C signal). In that case, do not connect it to the TV with a video cable.
- If you connect the VCR to the TV only with an aerial cable, you should preset the video channel from the VCR to the AV channel (channel number 0) on this TV. See “MANUAL CH PRESET” on page 20 and preset it manually.

Connecting the aerial



Connecting the aerial and VCR

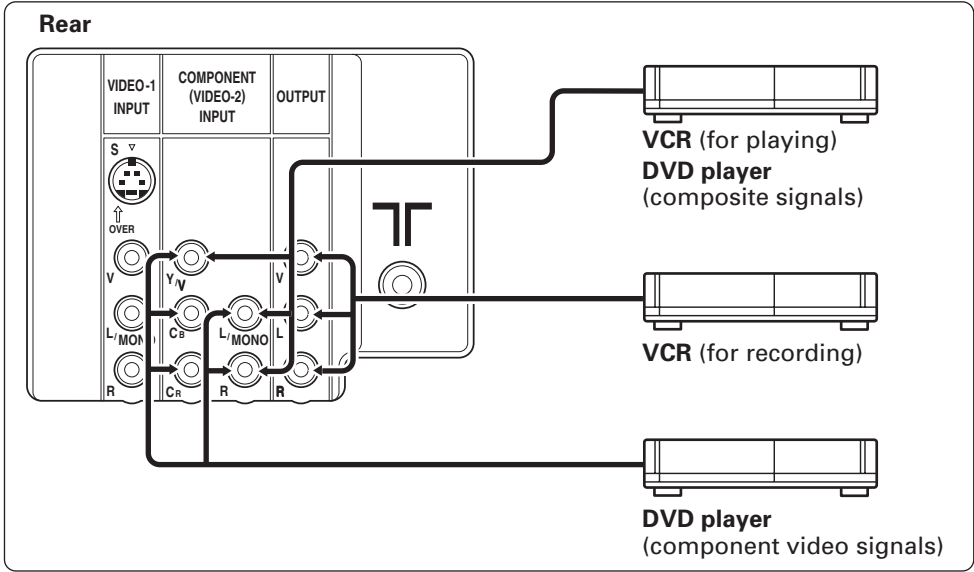
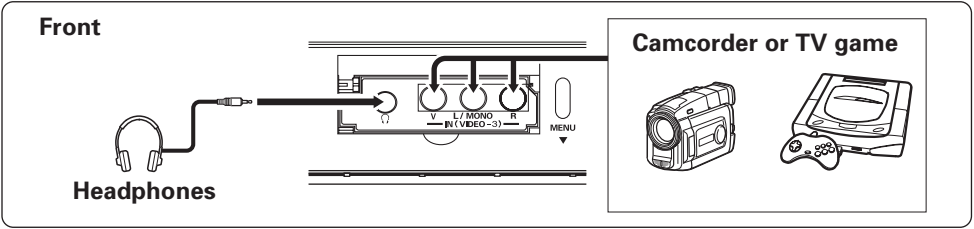


Preparation

3 Connecting other devices

If you are not connecting any other devices, skip step 3 and perform step 4.

- Use the headphones with a stereo mini jack (3.5 mm in diameter). When you connect the headphones, the TV speakers go off.
- The OUTPUT terminal outputs the video and sound signals which you are viewing on the TV. You can dub them onto the VCR connected to the OUTPUT terminal.
(The OUTPUT terminal cannot output S-VIDEO signals or component video signals. Also it cannot output any signals when the TV is turned off.)
- Connect components outputting a component signal (Y/C_B/C_R signal), such as a DVD player, to the VIDEO-2 terminal, and set VIDEO-2 SET function to “COMPONENT”. (See page 18.)
- The following illustrations are for the AV-2137V1. Your TV’s front and rear panels may not look exactly like the illustrations.



4 Connect the power cord to the AC outlet

Operate only from the power source indicated on the rear of the TV.

5 SETUP TOUR

When the TV is first turned on it enters the SETUP TOUR mode, and the JVC logo is displayed. Follow the instructions on the on-screen display to perform the SETUP TOUR.

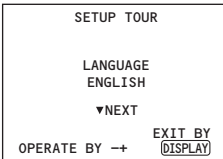
- In case of resetting that the reason for such as removal, you can set the AUTO CH PRESET function on the “MENU 3” menu. For details, see page 19.

1 Press the Main power button on the TV.

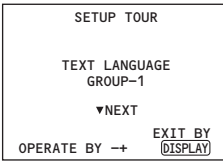
The POWER lamp lights. After the JVC logo has been displayed, the TV automatically switches to the language setting mode.



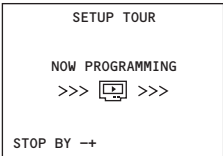
2 Press the CHANNEL +/- or the MENU </> buttons to select the on-screen language.



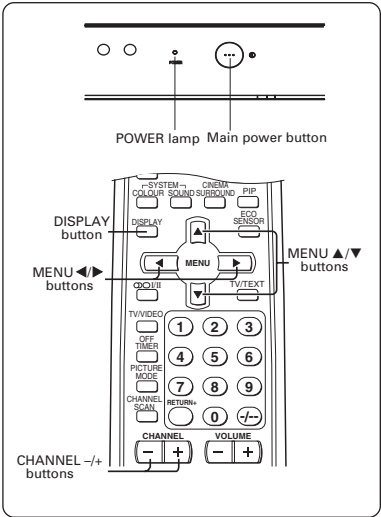
3 Press the CHANNEL +/- or the MENU </> buttons to select the teletext language group. For details, see page 21.



4 The AUTO PROGRAMMING function will start and the indicator blinks.



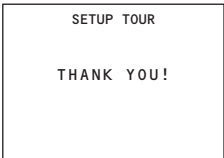
- To stop the AUTO PROGRAMMING function, press the CHANNEL +/- or the MENU </> buttons.



When all the TV channels that can be received on your TV have been preset, the display goes out and the AUTO PROGRAMMING function operation is completed.

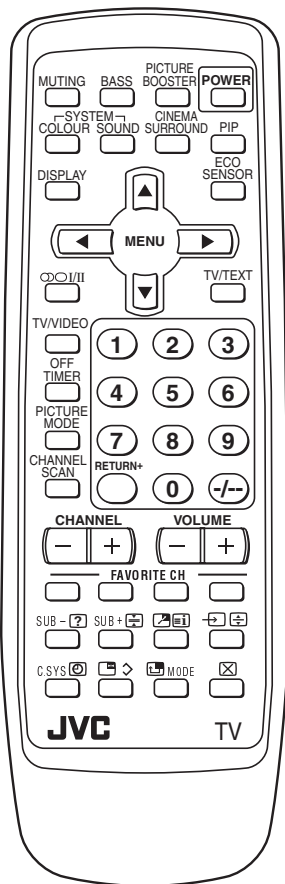
- If a TV channel you want to view is not set to the channel, set it with the MANUAL CH PRESET function. For details, see page 20.

5 Upon the completion of AUTO PROGRAMMING function, the message below is displayed.



Basic Operation

Your remote control may not look exactly like the illustration.



Note: For the function buttons available for your TV set, please refer to which Remote Control you have (See page 7 for details).

1 Press the POWER button to turn your TV on.

- If your TV does not turn on, press the Main power button on the TV then press the POWER button again.
- You can also turn on your TV by pressing any of the following buttons;
 - the CHANNEL \pm button
 - the Number buttons
 - the TV/VIDEO button

2 Select a channel.

- Press the CHANNEL \pm button.
 - Up/down selection cannot be selected for channels to which the SKIP has been set to "YES". See page 21.
- Press the Number buttons to enter the channel number.
 - If you want to enter a two-digit number, press the \pm button to select the two digit mode "--", then enter the channel number.

3 Press the VOLUME \pm button to adjust the sound.

4 To turn your TV off, press the POWER button.

- We recommend that you press the Main power button on the TV to turn the main power off if you do not plan to use your TV for a long time or if you wish to save energy.

If the picture is not clear:

Press the COLOUR SYSTEM button to select another colour system, see page 8.

If the sound is not clear:

Press the SOUND SYSTEM button to select another sound system, see page 8.












Viewing Images from an External Device:

Press the TV/VIDEO button to select the VIDEO mode.

- You can also use the INPUT function to select the VIDEO mode. For details, refer to page 16.

Remote control buttons and functions

Cross Reference table for TV set and Remote Control

TV SET		AV-2137V1 AV-2537V1 AV-2937V1	AV-2132W1 AV-2932W1	AV-2132Y1	Refer to page no.
REMOTE CONTROL		RM-C1302	RM-C1309	RM-C1311	
MUTING		○	○	○	8
PICTURE BOOSTER		–	–	○	8
COLOUR SYSTEM		○	○	○	8
SOUND SYSTEM		○	○	○	8
CINEMA SURROUND		○	○	○	8
DISPLAY		○	○	○	9
ECO SENSOR		○	○	○	9
TV/VIDEO		○	○	○	6
OFF TIMER		○	○	○	9
PICTURE MODE		○	○	○	9
CHANNEL SCAN		○	○	○	10
FAVORITE CH		○	○	○	10
RETURN +		○	○	○	10
PIP	SUB +/-	○	–	–	11
	SWAP 	○	–	–	11
	INPUT 	○	–	–	11
	C.SYS	○	–	–	12
	FREEZE 	○	–	–	12
	POSITION 	○	–	–	12
TV/TEXT	REVEAL 	○	○	○	14
	HOLD 	○	○	○	14
	INDEX 	○	○	○	14
	SIZE 	○	○	○	14
	SUBPAGE 	○	○	○	14
	STORE 	○	○	○	14
	MODE	○	○	○	13
	CANCEL 	○	○	○	14

Remote control buttons and functions

MUTING button

You can turn the sound off instantly.

Press this button.

To turn the sound on, press this button again.

PICTURE BOOSTER button

When the picture is unclear because the reception level of the TV signal is low, activating the Picture Booster improves the picture clarity in some situations. Repeatedly press the PICTURE BOOSTER button to select the desired mode.

HIGH:

The Picture Booster is functioning at maximum.

LOW:

The Picture Booster is functioning at minimum.

OFF:

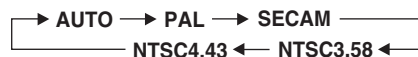
The Picture Booster is off.

- If the picture becomes abnormal when you set the Picture Booster to **HIGH**, then set it to **LOW** or **OFF**.

COLOUR SYSTEM button

If the picture is not clear or no colour appears, change the current colour system to another colour system.

Press this button to select the colour system.



AUTO:

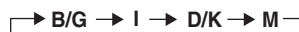
Automatic colour system selection.

- For the colour systems in each country or region, see the table “Broadcasting systems” on page 27.
- If the picture is not normal in the AUTO mode, change the AUTO mode to another colour system.

SOUND SYSTEM button

If the sound is not clear even when the picture appears normal, change the current sound system to another sound system.

Press this button to select the sound system.



- For the sound systems in each country or region, see the table “Broadcasting systems” on page 27.
- You cannot select any sound system when in a VIDEO mode.

CINEMA SURROUND button

You can enjoy an enhanced sound for a wider audience by using CINEMA SURROUND function.

Press this button to select one of the CINEMA SURROUND mode.

HIGH/LOW:

When you listen to the stereo sound, please select HIGH mode or LOW mode. You can enjoy the sound for a wider audience similar to the experience at the theatre.

- In case that you setting up the CINEMA SURROUND function to HIGH mode, there may be slight volume distortion. In case that occurs, please switch the HIGH mode to LOW mode, the effect of CINEMA SURROUND functions will be less noticeable, however, the volume distortion will be corrected.

MONO SURROUND:

Select the MONO SURROUND mode, when you listen to the mono sound. You can enjoy the sound for a wider audience similar to stereo sound.

OFF:

The CINEMA SURROUND function switches off.

Remote control buttons and functions

DISPLAY button

You can continuously display the current channel number or VIDEO mode on the screen.

Press this button.

To turn the display off, press this button again.

- When selecting a VIDEO mode with no signal, indication of the VIDEO mode becomes fixed on the screen.

ECO SENSOR button

You can adjust this TV so that the screen automatically adjusts to the optimum contrast according to the brightness of your room. This function reduces eye strain and the power consumption of this TV.

Press this button to select the desired mode.

AI ECO SENSOR 1:

The AI ECO SENSOR function switches on.

Usually, it is recommended to watch the TV in this mode.

AI ECO SENSOR 2:

The AI ECO SENSOR function switches on.

If you feel the screen in the “AI ECO SENSOR 1” mode is too dark, select this mode.

AI ECO SENSOR OFF:

The AI ECO SENSOR function switches off.

- You can display on the screen the effect of the AI ECO SENSOR function.
For details, see “AI ECO DISPLAY” on page 23.

OFF TIMER button

You can set the TV to automatically turn off after a set time.

Press this button to select the period of time.

- You can set the period of time to a maximum of 120 minutes in 10 minute increments.
- 1 minute before the OFF TIMER function turns off the TV, “GOOD NIGHT!” appears.

To display the remaining time, press this button once.

To cancel the OFF TIMER function, press this button to set the period of time to 0.

- The OFF TIMER function will not turn off the TV's main power.

PICTURE MODE button

You can select one of three picture adjustment settings as you like.

Press this button to select a mode.

BRIGHT:

Heightens contrast and sharpness.

STANDARD:

Standardizes picture adjustments.

SOFT:

Softens contrast and sharpness.

- Pressing this button returns all the picture settings in “MENU 4” to their default settings.

Remote control buttons and functions

CHANNEL SCAN button

You can quickly view all TV channels programmes that you can view on your TV, and search for the programme you want to view.

1 Press this button to start scanning TV channels.

The TV channel programmes are each displayed for several seconds.

- The programmes of TV channels for which the SKIP function is set to "YES" are not displayed.

2 When you find the programme you want to view, press this button again to stop scanning.

FAVORITE CH button

You can correlate 4 channels out of 99 channels (PR01-PR99) with FAVORITE CH buttons RED, GREEN, YELLOW and BLUE.

When not in TEXT mode, press one of the FAVORITE CH buttons for more than 3 seconds to correlate currently watching channel. After the channel and button are correlated, you can directly select favorite channel by the correlated button.

- When MENU is displayed, FAVORITE CH cannot be correlated.
- Correlation of FAVORITE CH button and the channel cannot be reset even though the main power is turned off.

RETURN + button

You can set a channel you frequently view to the Return Channel and you can view that channel at any time with one-touch.

To set the channel to the Return Channel:

1 Select the channel you want to set to the Return Channel.

2 Press this button and hold until the message "RETURN PLUS PROGRAMMED!" appears.

- When you turn off the TV, the Return Channel setting is canceled.

To view the Return Channel:

Press this button.

- You can view two channels (current channel and Return Channel) alternately by pressing this button.

To cancel the Return Channel setting:

Press this button and hold until the message "RETURN PLUS CANCELED!" appears.

If no channel is set to the Return Channel:

You can view the channel selected right before the current channel by pressing this button.

Remote control buttons and functions

PIP button

You can display sub-picture on top of main-picture.

Press this button to display sub-picture.

- When PIP button is pressed while sub-picture is displayed, sub-picture is closed.
- When TV/TEXT button is pressed while sub-picture is displayed, sub-picture is closed and TEXT screen is displayed.
- Only the sound for main-picture is audible using the headphone and the sound for sub-picture is not audible.
- When PIP button is pressed while the main-picture input source is the same as the last sub-picture input source, the input source of sub-picture is automatically changed to the next input source.
- When PIP button is pressed while BLUE BACK function is on and main-picture is not receiving TV signal, BLUE BACK function is disabled.
- When PIP button is pressed while MENU is displayed, MENU is closed and main-picture together with sub-picture on top are displayed.

- PIP button cannot operate in COMPRESS (16:9 mode).

SUB +/- button

When the input source of sub-picture is TV mode and sub-picture is displayed, you can change the channel of sub-picture by this button.

- When the input source of sub-picture is TV mode, pressing of SUB +/- button to effect up/down of channel.
- When the input source of sub-picture is other than TV mode, SUB +/- button is disabled.

SWAP () button

You can swap the input source of main and sub-pictures by this button while sub-picture is displayed.

Press this button to swap the input source of main and sub-pictures so that the image of sub-picture is displayed on main-picture and vice-versa.

INPUT () button

You can select the input source of sub-picture by this button.

Press this button repeatedly to select the desired input source.

- Depending on the input source of main-picture, each press of INPUT button changes the input source of sub-picture as follows:

Main-picture: TV mode

→ VIDEO-1 → VIDEO-2 → VIDEO-3 →

Main-picture: VIDEO-1

→ TV mode → VIDEO-2 → VIDEO-3 →

Main-picture: VIDEO-2

→ TV mode → VIDEO-1 → VIDEO-3 →

Main-picture: VIDEO-3

→ TV mode → VIDEO-1 → VIDEO-2 →

- When the input source of main-picture is set to VIDEO-2 with COMPONENT, PIP button is disabled and sub-picture cannot be displayed.
- When the input source of main-picture is other than VIDEO-2 and VIDEO-2 is set to COMPONENT, the input source of sub-picture cannot select VIDEO-2.

C.SYS button

If the sub-picture is not clear or no colour appears, change the current colour system to another colour system.

- Press this button to select the colour system.



- About each selected mode, see “COLOUR SYSTEM button” on page 8.
- When the input of sub-picture is changed to VIDEO mode, the colour system of sub-picture is automatically set to AUTO mode.
- When the input of sub-picture is TV mode, the colour system of sub-picture depends on the colour system of each channel.

FREEZE () button

You can stop the motion of picture (FREEZE status) using this button.

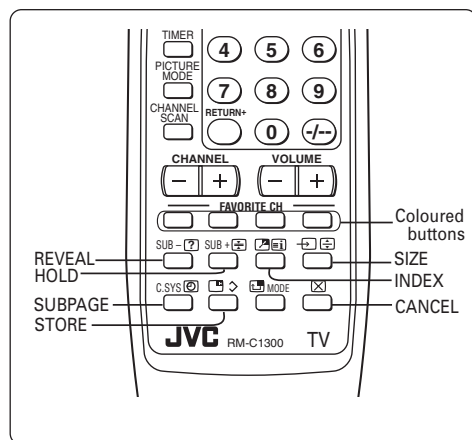
- When FREEZE button is pressed while sub-picture is displayed, the motion of sub-picture is stopped (FREEZE status).
- When any available button is pressed during sub-picture is in FREEZE status, the motion of sub-picture returns to normal, otherwise, the sub-picture remains at FREEZE status.
- When sub-picture is not displayed, FREEZE button is disabled.

POSITION () button

You can move the position of sub-picture to either bottom left, top left, top right or bottom right by this button.

- When PIP is pressed, sub-picture is displayed at the last displayed position. Each press of POSITION button changes the displayed position of sub-picture.

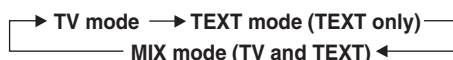
Viewing teletext programmes



■ Basic operation

- 1 Select a TV channel with a teletext programme.
- 2 Press the TV/TEXT button to change the TV mode to the teletext mode.

The mode cycles as follows:



- 3 Select a teletext page by pressing the CHANNEL +/- button, Number buttons or coloured buttons.

To return to the TV mode, press the TV/VIDEO button or the TV/TEXT button.

- If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.
- If characters on a teletext programme do not appear properly, change the TELETEXT LANGUAGE setting. For details, see "TEXT LANGUAGE" on page 21.

Using the List Mode

You can store the numbers of your favorite teletext pages in the List mode and call them up quickly using the coloured buttons.

To store the page numbers:

- 1 Press the MODE button to engage the List mode.

The stored page numbers are displayed at the bottom of the screen.

- 2 Press a coloured button to select a position. Then press the Number buttons to enter the page number.

- 3 Press and hold down the STORE button.

The four page numbers blink white to indicate that they are stored in memory.

To call up a stored page:

- 1 Press the MODE button to engage the List mode.

- 2 Press a coloured button to which a page has been assigned.

To exit the List mode, press the MODE button again.

Viewing teletext programmes

REVEAL (?)

Some teletext pages include hidden text (such as answers to a quiz).

You can display the hidden text.

Each time you press the REVEAL button, text is hidden or revealed.

HOLD (=)

You can hold a teletext page on the screen for as long as you want, even while several other teletext pages are being received.

Press the HOLD button.

To cancel the HOLD function, press the HOLD button again.

STORE (>)

Press this to store the number of your favorite teletext pages in the List mode and call them up quickly using the coloured buttons.

CANCEL (X)

You can watch a TV programme even when in the teletext mode.

1 Press the Number button to enter a page number, or press a coloured button.

The TV starts searching for a teletext page.

2 Press the CANCEL button.

The TV programme appears.

When the TV finds the teletext page, its page number appears in the upper left of the screen.

3 Press the CANCEL button to view the teletext page.

- Pressing the CANCEL button cannot change the teletext mode to the TV mode.

INDEX (i)

You can return to the index page instantly.

Press the INDEX button.

In the List mode:

Returns to the page number displayed in the lower left area of the screen.

SUBPAGE (@)

Some teletext pages include sub-pages that are automatically displayed.

You can hold any sub-page, or view it at any time.

1 Press the SUBPAGE button to operate the Sub-page function.

2 Press the Number buttons to enter a sub-page number.

Example:

3rd sub-page → press 0, 0, 0 and 3.

- You can also select a sub-page by pressing the red or green button.

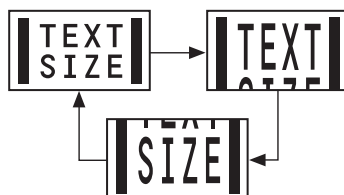
To cancel the Sub-page function, press the SUBPAGE button again.

SIZE (+)

You can double the height of the teletext display.

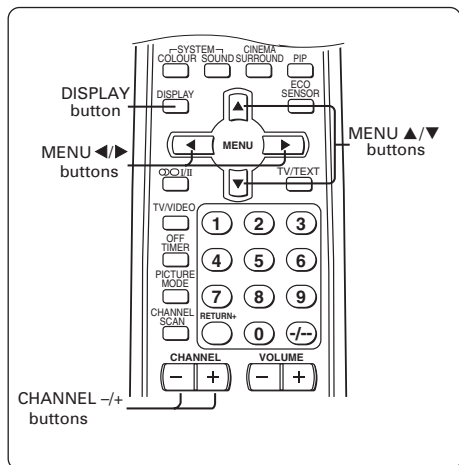
Press the SIZE button.

The teletext display changes cyclically.



Using the TV's menus

This TV has a number of functions you can operate using the menus. To use all your TV's functions fully, you need to understand how to use the menus.



4 Press the CHANNEL +/- or the MENU <|> buttons to change function settings.

Example:

Changes the AUTO SHUTOFF setting.

MENU		2
☐ AUTO SHUTOFF	OFF	☐
CHILD LOCK	OFF	
BLUE BACK	ON	
VIDEO-2 SET	COMPONENT	
SELECT BY ▼▲		EXIT BY
OPERATE BY →		[DISPLAY]

↔

MENU		2
☐ AUTO SHUTOFF	ON	☐
CHILD LOCK	OFF	
BLUE BACK	ON	
VIDEO-2 SET	COMPONENT	
SELECT BY ▼▲		EXIT BY
OPERATE BY →		[DISPLAY]

- With some functions, the operation method may differ.

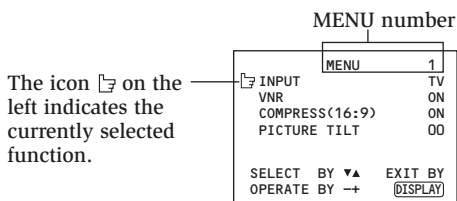
5 Press the DISPLAY button to turn the display off.

- To operate a menu using the buttons on the front panel of the TV, refer to "Operating menus" on page 25.

Basic operation

1 Press the MENU ▲/▼ buttons.

One of the 6 menus is displayed.



2 Repeatedly press the MENU ▲/▼ buttons to display a desired menu.

- If you hold down the ▼ button, the next menu is displayed.
- If the selected function is on the first line, pressing the ▲ button displays the preceding menu.

3 Repeatedly press the MENU ▲/▼ buttons to select a desired function.

Using the TV's menus

INPUT

You can view images from VCRs or other devices connected to your TV.

- 1 Press **MENU ▲/▼** to display the “MENU 1” menu, then select “INPUT”.

MENU	1
INPUT	TV
VNR	ON
COMPRESS(16:9)	ON
PICTURE TILT	00
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ DISPLAY	

- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select “VIDEO-1”, “VIDEO-2” or “VIDEO-3”.

TV mode changes to VIDEO mode.

PICTURE TILT

< AV-2937V1/AV-2932W1 only >

There are cases where the Earth’s magnetic force may make the picture tilt. If this happens, you can correct the picture tilt.

- 1 Press **MENU ▲/▼** to display the “MENU 1” menu, then select “PICTURE TILT”.

MENU	1
INPUT	TV
VNR	ON
COMPRESS(16:9)	ON
PICTURE TILT	00
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ DISPLAY	

- 2 Continue pressing **CHANNEL -/+** or **MENU ◀/▶** until the picture becomes level.

VNR

You can reduce picture noise.

- 1 Press **MENU ▲/▼** to display the “MENU 1” menu, then select “VNR”.

MENU	1
INPUT	TV
VNR	ON
COMPRESS(16:9)	ON
PICTURE TILT	00
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ DISPLAY	

- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select “ON”.

To cancel the VNR function, select “OFF”.

COMPRESS (16:9)

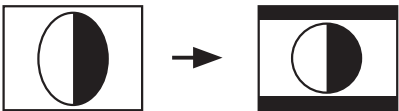
This function converts a normal picture (4:3 aspect ratio) into a wide picture (16:9 aspect ratio).

Use for pictures with a 16:9 aspect ratio that have been squeezed into a normal picture (4:3 aspect ratio), to restore their original dimensions.

- 1 Press **MENU ▲/▼** to display the “MENU 1” menu, then select “COMPRESS (16:9)”.

MENU	1
INPUT	TV
VNR	ON
COMPRESS(16:9)	ON
PICTURE TILT	00
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ DISPLAY	

- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select “ON”.



To cancel the COMPRESS (16:9) function, select “OFF”.

- If COMPRESS (16:9) is changed to ON while sub-picture is displayed, the sub-picture will automatically be deleted.

Using the TV's menus

AUTO SHUTOFF

You can set your TV to turn off if no signals are received for about 15 minutes or longer after the end of a broadcast.

- 1 Press **MENU ▲/▼** to display the "MENU 2" menu, then select "AUTO SHUTOFF".

MENU	2
AUTO SHUTOFF	ON
CHILD LOCK	ON
BLUE BACK	ON
VIDEO-2 SET	COMPONENT
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ DISPLAY	

- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select "ON".

To cancel the AUTO SHUTOFF function, select "OFF".

- The AUTO SHUTOFF function does not turn off the TV's main power.
- The AUTO SHUTOFF will not work for a VIDEO mode.

CHILD LOCK

You can disable the front control buttons of the TV.

When this function is set to "ON", the TV can be operated using only the remote control.

Use this function to prevent children from operating the TV without parental consent.

- 1 Press **MENU ▲/▼** to display the "MENU 2" menu, then select "CHILD LOCK".

MENU	2
AUTO SHUTOFF	ON
CHILD LOCK	ON
BLUE BACK	ON
VIDEO-2 SET	COMPONENT
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ DISPLAY	

- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select "ON".

To cancel the CHILD LOCK function, select "OFF".

- The CHILD LOCK function is canceled when you turn the power off.

BLUE BACK

You can mute the sound and change the picture into a blue screen while no signals are received by the TV, or when the signals are unstable.

- 1 Press **MENU ▲/▼** to display the "MENU 2" menu, then select "BLUE BACK".

MENU	2
AUTO SHUTOFF	ON
CHILD LOCK	ON
BLUE BACK	ON
VIDEO-2 SET	COMPONENT
SELECT BY ▼▲ EXIT BY	
OPERATE BY →+ DISPLAY	

- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select "ON".

To cancel the BLUE BACK function, select "OFF".

- To view a broadcast even when the reception signal is poor, set the BLUE BACK function to "OFF".
- Even when the BLUE BACK function is set to "OFF", the sound may not be audible.

Using the TV's menus

VIDEO-2 SET

Set the VIDEO-2 SET correctly according to the video signal input from the external device connected to the VIDEO-2 terminal. If this setting is incorrect, images will not be displayed.

- 1 Press **MENU ▲/▼** to display the "MENU 2" menu, then select "VIDEO-2 SET".

MENU	2
AUTO SHUTOFF	ON
CHILD LOCK	ON
BLUE BACK	ON
VIDEO-2 SET	COMPONENT
SELECT BY ▼▲	EXIT BY
OPERATE BY →	DISPLAY

- 2 Set the VIDEO-2 SET according to the video signal input from the VIDEO-2 terminal.

If a normal video signal (composite video signal) is input:

Press the CHANNEL -/+ or the MENU ◀/▶ buttons to select "VIDEO".

If a component video signal (Y/C_B/C_R signals) is input:

Press the CHANNEL -/+ or the MENU ◀/▶ buttons to select "COMPONENT".

Picture Adjustments

You can adjust the picture as you like.

- 1 Press **MENU ▲/▼** to display the "MENU 4" menu.

MENU	4
TINT
COLOUR
BRIGHT
CONT
SHARP
SELECT BY ▼▲	EXIT BY
OPERATE BY →	DISPLAY

- 2 Press **MENU ▲/▼** to select an item and press **CHANNEL -/+** or **MENU ◀/▶** to adjust it.

TINT*	- : Reddish	+ : Greenish
COLOUR	- : Lighter	+ : Deeper
BRIGHT	- : Darker	+ : Brighter
CONT	- : Lower	+ : Higher
SHARP	- : Softer	+ : Sharper

* TINT (tint) is displayed only when viewing images from NTSC3.58 or NTSC4.43 colour systems.

Sound Adjustments

You can adjust the sound as you like.

- 1 Press **MENU ▲/▼** to display the "MENU 5" menu.

MENU	5
BASS
TREBLE
BALANCE
AI VOLUME	ON
SELECT BY ▼▲	EXIT BY
OPERATE BY →	DISPLAY

- 2 Press **MENU ▲/▼** to select an item and press **CHANNEL -/+** or **MENU ◀/▶** to adjust it.

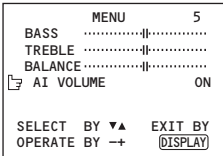
BASS	- : Weaker	+ : Stronger
TREBLE	- : Weaker	+ : Stronger
BALANCE	- : Left	+ : Right

Using the TV's menus

AI VOLUME

You can prevent the sudden increase or decrease of volume that occurs when changing channels or switching VIDEO modes.

- 1 Press MENU ▲/▼ to display the "MENU 5" menu, then select "AI VOLUME".



- 2 Press CHANNEL -/+ or MENU ◀/▶ to select "ON".

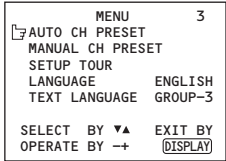
To cancel the AI VOLUME function, select "OFF".

- The AI VOLUME function may not operate as expected if the sound input level from a broadcast station (or video software) is extremely low.
- The AI VOLUME function for TV mode and VIDEO mode can be set separately. For example, you can set it to be off in TV mode and on in VIDEO mode. If you set the AI VOLUME function while viewing a TV channel, the setting is registered as the setting for TV mode. If you set the AI VOLUME function while viewing images from a VIDEO terminal, the setting is registered as the setting for VIDEO mode.

AUTO CH PRESET

You can automatically preset all TV channels that can be received by your TV to channels.

- 1 Press MENU ▲/▼ to display the "MENU 3" menu, then select "AUTO CH PRESET".



- 2 Press CHANNEL -/+ or MENU ◀/▶ to start the AUTO CH PRESET function.

">>> ON SEARCH" is displayed on the screen.

When all the TV channels that can be received on your TV have been preset, the display goes out and the AUTO CH PRESET function operation is completed.

To stop the AUTO CH PRESET:
Press the CHANNEL -/+ or the MENU ◀/▶ buttons.

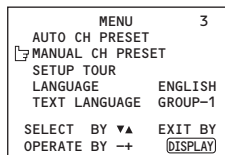
- The AUTO CH PRESET function does not preset a TV channel to the AV channel (channel number 0).
- If the TV cannot preset the TV channel you want to view, preset it manually. For details, see "MANUAL CH PRESET" on page 20.

Using the TV's menus

MANUAL CH PRESET

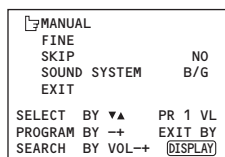
You can manually preset desired TV channels to desired channels.

- 1 Press MENU ▲/▼ to display the "MENU 3" menu, then select "MANUAL CH PRESET".



- 2 Press MENU ◀/▶.

The sub-menu is displayed.



- The channel number is displayed as a PR number. For example, channel 1 will be displayed as PR 1. However, the AV channel will be displayed as AV.

- 3 Press CHANNEL -/+ to select the channel number.

- 4 Press VOLUME -/+ to start searching for the TV channel.

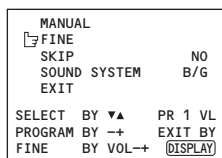
">>>" or "<<<" is displayed on the screen.

When the TV finds a TV channel, the ">>>" or "<<<" display goes out, and the TV channel is preset to the currently selected channel number.

- If the TV channel you want to preset is not displayed, repeat step 4 until the TV finds the TV channel you want to preset.
- To stop the MANUAL CH PRESET function, press any button other than the VOLUME -/+ button.

If the picture is not clear:
Fine-tune the TV channel.

- 1 Press MENU ▲/▼ to select "FINE".

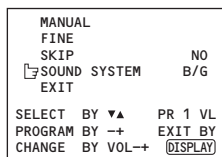


- 2 Hold VOLUME -/+ down to fine-tune the TV channel so that the best image is displayed on screen.

">" or "<" indicates that the TV is fine-tuning the TV channel.

If the sound is not clear:

- 1 Press MENU ▲/▼ to select "SOUND SYSTEM".



- 2 Press VOLUME -/+ to select the appropriate sound system.

- For the sound systems in each country or region, refer to the table "Broadcasting systems" on page 27.

- 5 Press MENU ▲/▼ to select "MANUAL".

- 6 Repeat steps 3 to 5 if you want to preset another TV channel to a channel.

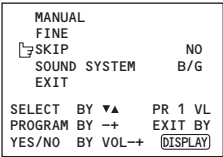
Using the TV's menus

SKIP

You can set undesired channels to be skipped. Channels set to be skipped cannot be selected by the CHANNEL -/+ buttons nor the CHANNEL SCAN button.

- Channels to which TV channels have not been preset are automatically set to be skipped.

- 1 Press MENU ▲/▼ to display the "MENU 3" menu, then select "MANUAL CH PRESET".
- 2 Press MENU ◀/▶.
- 3 Press MENU ▲/▼ to select "SKIP".

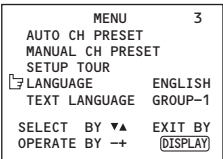


- 4 Press CHANNEL -/+ to select the channel you want to skip.
- 5 Press VOLUME -/+ to select "YES". The channel is set to be skipped. To cancel the SKIP function, select "NO".
- 6 Repeat steps 4 and 5 if you want to set another channel to skip.

LANGUAGE

You can select the language for the on-screen display.

- 1 Press MENU ▲/▼ to display the "MENU 3" menu, then select "LANGUAGE".

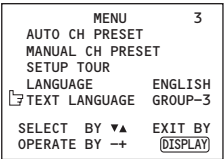


- 2 Press CHANNEL -/+ or MENU ◀/▶ to select language. The on-screen display indications are in the selected language.

TEXT LANGUAGE

You can select one of 5 teletext language groups. Set the teletext language group that corresponds to the language of the teletext programme that you want to watch.

- 1 Press MENU ▲/▼ to display the "MENU 3" menu, then select "TEXT LANGUAGE".



- 2 Press CHANNEL -/+ or MENU ◀/▶ to select a group.

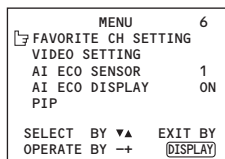
Group	languages
GROUP-1	English, German, Swedish / Finnish / Danish / Hungarian, Italian, French, Spanish / Portuguese, Turkish
GROUP-2	Polish, German, Estonian, Slovenian, Czech / Slovakian, Rumanian
GROUP-3	Polish, German, Estonian, Lettish, Russian, Ukrainian
GROUP-4	English, French, Turkish, Arabic
GROUP-5	English, French, Turkish, Farsi

- Depending on the broadcast, the language set may not display properly.

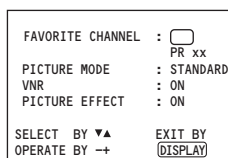
FAVORITE CH SETTING

You can set PICTURE MODE, VNR and PICTURE EFFECT functions for the favorite channels using FAVORITE CH SETTING menu.

- 1 Press MENU $\blacktriangle/\blacktriangledown$ to display the "MENU 6" menu, then select "FAVORITE CH SETTING".



- 2 Press MENU $\blacktriangle/\blacktriangledown$.
The sub-menu is displayed.



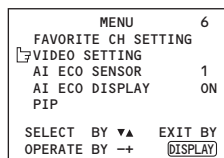
- 3 Press CHANNEL $-/+$ to select one of the colours of "RED", "GREEN", "YELLOW" or "BLUE" assigned to FAVORITE CH button.
- 4 Press MENU $\blacktriangle/\blacktriangledown$ to select "PICTURE MODE", then press CHANNEL $-/+$ to select the picture mode of "BRIGHT", "STANDARD" or "SOFT".
- 5 Press MENU $\blacktriangle/\blacktriangledown$ to select "VNR", then press CHANNEL $-/+$ to select VNR "ON" or "OFF".
- 6 Press MENU $\blacktriangle/\blacktriangledown$ to select "PICTURE EFFECT", then press CHANNEL $-/+$ to select PICTURE EFFECT "ON" or "OFF".

- PICTURE MODE and VNR settings are changed only when you press the FAVORITE CH button while PICTURE EFFECT is ON. Otherwise, PICTURE MODE and VNR are not changed.

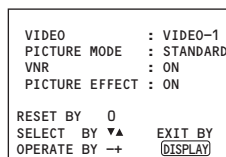
VIDEO SETTING

You can set PICTURE MODE, VNR and PICTURE EFFECT functions for VIDEO mode using VIDEO SETTING menu.

- 1 Press MENU $\blacktriangle/\blacktriangledown$ to display the "MENU 6" menu, then select "VIDEO SETTING".



- 2 Press MENU $\blacktriangle/\blacktriangledown$.
The sub-menu is displayed.



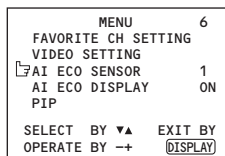
- 3 Press CHANNEL $-/+$ to select "VIDEO-1", "VIDEO-2" or "VIDEO-3".
 - 4 Press MENU $\blacktriangle/\blacktriangledown$ to select "PICTURE MODE", then press CHANNEL $-/+$ to select the picture mode of "BRIGHT", "STANDARD" or "SOFT".
 - 5 Press MENU $\blacktriangle/\blacktriangledown$ to select "VNR", then press CHANNEL $-/+$ to select VNR "ON" or "OFF".
 - 6 Press MENU $\blacktriangle/\blacktriangledown$ to select "PICTURE EFFECT", then press CHANNEL $-/+$ to select PICTURE EFFECT "ON" or "OFF".
- PICTURE MODE and VNR settings are changed only when VIDEO input mode is selected while PICTURE EFFECT is ON. Otherwise, PICTURE MODE and VNR are not changed.
 - Press 0 button to reset the setting.

Using the TV's menus

AI ECO SENSOR

You can enable this function so that the brightness of TV screen is automatically adjusted according to the brightness of your room.

- 1 Press **MENU ▲/▼** to display the "MENU 6" menu, then select "AI ECO SENSOR".



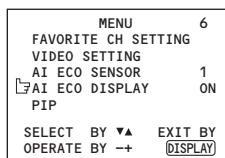
- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select "OFF", "1" or "2".

- For detailed description, see the "ECO SENSOR button" on page 9.

AI ECO DISPLAY

You can display on the screen the effect of the AI ECO SENSOR function.

- 1 Press **MENU ▲/▼** to display the "MENU 6" menu, then select "AI ECO DISPLAY".



- 2 Press **CHANNEL -/+** or **MENU ◀/▶** to select "ON".

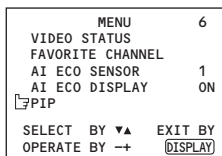
The clover mark indicating the brightness of your room is displayed for several seconds each time the brightness changes. The number of clover marks displayed on screen increases as your room becomes darker. To cancel the AI ECO DISPLAY function, select "OFF".

- To switch the AI ECO SENSOR'S mode, see the "ECO SENSOR button" on page 9.

PIP

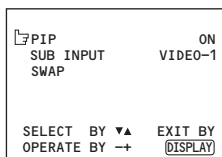
This function is the same as the function of PIP buttons. For details, refer to page 11 and 12.

- 1 Press **MENU ▲/▼** to display the "MENU 6" menu, then select "PIP".



- 2 Press **MENU ◀/▶**.

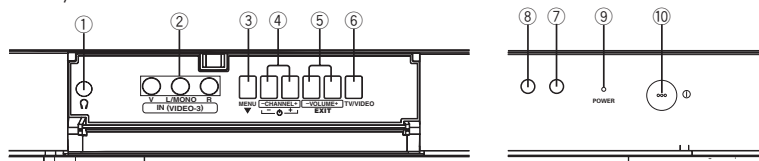
The sub-menu is displayed.



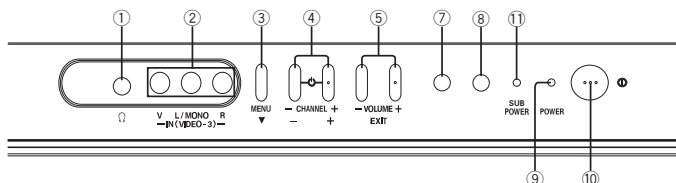
- 3 Press **CHANNEL -/+** to select PIP "ON" or "OFF".
- 4 Press **MENU ▲/▼** to select "SUB INPUT", then press **CHANNEL -/+** to select "TV mode", "VIDEO-1", "VIDEO-2" or "VIDEO-3".
- 5 Press **MENU ▲/▼** to select "SWAP", then press **CHANNEL -/+** to select main or sub-picture.

TV buttons and parts

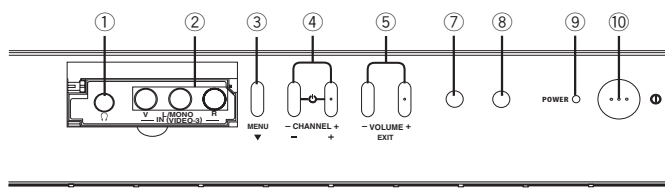
< AV-2937V1/AV-2932W1 >



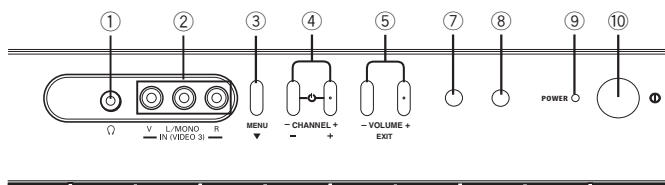
< AV-2132Y1 >



< AV-2137V1/AV-2537V1 >



< AV-2132W1 >



- ① Headphone jack
- ② VIDEO-3 terminal
- ③ MENU button
- ④ CHANNEL +/- buttons
- ⑤ VOLUME +/- buttons
- ⑥ TV/VIDEO button
- ⑦ ECO sensor
- ⑧ Remote control sensor

- ⑨ POWER lamp
- ⑩ Main power button
- ⑪ SUB POWER lamp

< AV-2132Y1 only >

When the main power is switched on, the POWER lamp turns red.

When the TV is turned on (the sub power is on), the SUB POWER lamp turns green.

Using the buttons on the TV

Basic operation

Check to make sure the CHILD LOCK function is set to “OFF”. When the CHILD LOCK function is set to “ON”, the TV cannot be operated using the front control buttons. For details, see “CHILD LOCK” on page 17.

- 1 Press CHANNEL -/+ to turn the TV on from standby mode.
- 2 Press CHANNEL -/+ to select a channel.
- 3 Press VOLUME -/+ to adjust the volume.
- 4 To turn your TV off, press the Main power button to turn off the TV’s main power.

To change the TV mode to the VIDEO mode:

- Press the TV/VIDEO button if the TV has one. See page 6.
- If the TV has no TV/VIDEO button, select the VIDEO mode with the INPUT function in “MENU 1”.

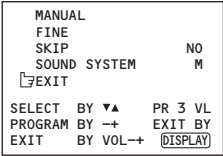
Operating menus

You can operate function in menus using the front control buttons on the TV.

- 1 Press MENU ▼ to display a menu.
- 2 Press MENU ▼ repeatedly to display the menu you want to use.
- 3 Press MENU ▼ to select the desired function or item.
- 4 Press CHANNEL -/+ or VOLUME -/+ to carry out the desired operation.
For details, see the description for each function.
- 5 Press VOLUME -/+ to turn the menu display off.

To turn the sub-menu display off:

- 1 Press MENU ▼ to select “EXIT”.



- 2 Press VOLUME -/+ to turn the display off.

Troubleshooting

If there is no picture or the TV does not operate normally, make sure the problem isn't due to the reasons indicated below.

If the problem persists even after taking the measures indicated, please contact a service technician.

Cannot turn the TV on

- Press the Main power button on the TV.
- Connect the power cord to the AC outlet.

The screen turns blue

- Is the BLUE BACK function on? (see page 17.)

Remote control inoperable

- Replace the batteries. (see page 2.)

Buttons on front of the TV do not work

- Switch the CHILD LOCK function off. (see page 17.)

TV does not respond immediately

- Press the main power button on the TV to turn off the main power. Press the main power button again to turn on the TV. If the TV returns to a normal state, operation is normal.

The TV turns off suddenly

- Is the OFF TIMER function set to operate? (see page 9.)
- Is the AUTO SHUTOFF function on? (see page 17.)

Poor sound

- Press the SOUND SYSTEM button to select another sound system. (see page 8.)
- Adjust the sound settings. (see page 18.)

Poor picture

- Press the COLOUR SYSTEM button to select another colour system. (see page 8.)
- Adjust the picture settings. (see page 18.)
- Is a component signal output device, such as a DVD player, connected correctly? (see page 4.)
- Is the VIDEO-2 SET function setting correct? (see page 18.)
- If noise (snow) totally blocks out the picture, check the following.
 - Have the TV and aerial been connected properly?
 - Has the aerial cable been damaged?
 - Is the aerial pointing in the right direction?
 - Is the aerial itself faulty?
- If the TV or aerial suffer interference from other equipment, stripes or noise may appear in the picture. Move any equipment which can cause interference away from the TV.
- If the TV or aerial suffer interference from signals reflecting from mountains or buildings, double-pictures (ghosting) will occur. Change the aerial's direction or replace it with an aerial with better directionality.
- When a white and bright still image (such as a white dress) is displayed on the screen, the white part may look as if it is coloured. When the image disappears from the screen, the unnatural colours will also disappear.

The picture is tilted

< AV-2937V1/AV-2932W1 only >

- A picture may be tilted due to the influence of the earth's magnetism. In this case, use the PICTURE TILT function to adjust the tilt. (see page 16.)

Specifications

TV RF systems

B, G, I, D, K, M

Colour systems

PAL, SECAM, NTSC 3.58 MHz, NTSC 4.43 MHz

Receiving channels

VHF low channel (VL), VHF high channel (VH), UHF channel (U)
Receives cable channels in mid band, super band and hyper band.

External input / output

VIDEO-1: S-video input, VIDEO input, AUDIO L/R input
VIDEO-2/COMPONENT: VIDEO input, AUDIO L/R input,
COMPONENT VIDEO (Y/Cb/Cr) input
VIDEO-3: VIDEO input, AUDIO L/R input
OUTPUT: VIDEO output , AUDIO L/R output
Headphone jack: stereo mini jack (3.5 mm diameter)

Teletext system

FLOF (Fastext), WST (World Standard Text)

Language displayed by teletext

Please see the table in the description "TEXT LANGUAGE" on page 21.

Design and specifications subject to change without notice.

Broadcasting systems

Area	Country or Region	System	
		Colour	Sound
Asia, Middle East	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, India, etc.	PAL	B/G
	China, Vietnam, etc.	PAL	D/K
	Hong Kong, etc.	PAL	I
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	SECAM	B/G
	Philippines, Taiwan, Myanmar, etc.	NTSC	M
Europe	Russia, etc.	SECAM	D/K
	Czech Republic, Poland, etc.	PAL	D/K
	Germany, Holland, Belgium, etc.	PAL	B/G
	UK, etc.	PAL	I
Oceania	Australia, New Zealand, etc.	PAL	B/G
Africa	Republic of South Africa, etc.	PAL	I
	Nigeria, etc.	PAL	B/G
	Egypt, Morocco, etc.	SECAM	B/G



JVC

SERVICE MANUAL

COLOUR TELEVISION

AV-2932W1/ESK

BASIC CHASSIS

CH3

Supplementary

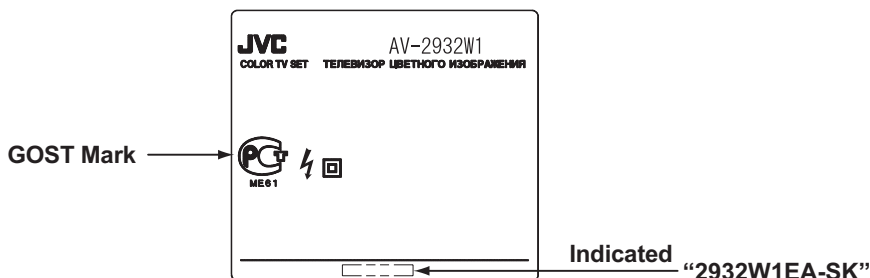
The following items for the AV-2932W1/ESK model was changed partly from AV-2932W1/E.
Therefore, this service manual describes only the items which differ from those of the AV-2932W1/E model service manual.
For details other than those described in this manual, please refer to the AV-2932W1/E service manual (No.52197, 2003/9) (52197C, 2004/2).

OUTLINE

Since the production place was changed, we have issued the SERVICE MANUAL for AV-2932W1/ESK.

HOW TO IDENTIFY MODELS

"2932W1EA-SK" is below the Rating label.



NOTE:

This model has obtained GOST Mark safety approvals.

Thus we are sticking the labels of GOST Mark on the following places, indicating that the model has obtained the safety approvals.

Label sticking places:

- (1) Rating label
- (2) Packing case (four places)

DIFFERENCE LIST

USING P.W. BOARD (Page 3-2)

P.W.B ASS'Y Name	AV-2932W1/E	AV-2932W1/ESK	DESCRIPTION
MAIN P.W.B	SCH-1184A-H2	SCH-1605A-H2	Non compatible
CRT SOCKET PWB	SCH-3006A-H2	SCH-3605A-H2	Non compatible
FRONT CONTROL P.W.B	SCH-8006A-H2	SCH-8603A-H2	Non compatible

EXPLODED VIEW PARTS LIST (Page 3-3)

△	Ref. No.	PARTS No.		PARTS NAME	DESCRIPTION
		AV-2932W1/E	AV-2932W1/ESK		
△	100	GG10189-006A-H	GG10189-006A-HK	FRONT CABINET ASSY	Inc.No.101-102

PRINTING WIRING BOARD PARTS LIST

MAIN P.W. BOARD PARTS LIST (Page 3-4)

△	Ref. No.	PARTS No.		PARTS NAME	DESCRIPTION
		AV-2932W1/E	AV-2932W1/ESK		
△	V01	A68QCU770X52K	A68QCU770X52ND	PICTURE TUBE(ITC)	Inc.DEF YOKE/PC MAGNET/WEDGE
△	12	GG10192-001B-H	GG10192-001B-HK	REAR COVER	
△	17	LC11061-001A-H	LC11061-001A-HK	CHASSIBASE	
△	18	LC11062-001D-H	LC11062-001E-H	CONTROL BASE	
△	20	CE42568-00A	---	PC MAGNET	Delete
△	21	CE40764-00A	---	WEDGE ASSY	Delete

PACKING (Page 3-27)

△	Ref. No.	PARTS No.		PARTS NAME	DESCRIPTION
		AV-2932W1/E	AV-2932W1/ESK		
	1	GG10044-071C-H	GG10044-071B-H	PACKING CASE	
	5	GG30097-004A-H	CP30967-004-H	POLY BAG	
	8	GG30096-001A-H	CP30966-001-H	POLY BAG	
	15	GG20025-003A-H	GG20025-005A-H	CORNER LABEL	

PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (SCH-1605A-H2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC1130	M52342SP	IC	(SERVICE)	D1653	MA3330/LI-X	Z DIODE	
IC1301	TDA9181T/N1-X	IC		D1655	MA111-X	SI DIODE	
IC1401	LA78041	IC		D1657	MA111-X	SI DIODE	
IC1461	JLC1562BF-X	IC		D1701	MA111-X	SI DIODE	
IC1480	UPC358G2-XE	IC		D1702	MA3020-X	CHIP ZENER DIODE	
IC1602	NJW1136GL1-W	IC		D1703	MA3036-X	CHIP ZENER DIODE	
IC1650	AN5277	IC		D1730	MA111-X	SI DIODE	
IC1701	TDA9365N2411325	IC (MCU)		D1731	MA111-X	SI DIODE	
IC1702	AT24WC0829VX71G	IC		D1732	MA111-X	SI DIODE	
IC1801	MM1492AF	IC		D1733	MA111-X	SI DIODE	
IC1901	STR-F6256S-F7	IC		D1801	MA3120/MI-X	Z DIODE	
IC1951	SE135N	IC		D1802	MA3120/MI-X	Z DIODE	
IC1972	MM1563DF-X	IC		D1901	GSIB460	BRIDGE DIODE	
IC1973	L7812CP	IC		D1902	MTZJ33B-T2	Z DIODE	
IC1974	MM1565AF-X	IC		D1906	MTZJ27B-T2	Z DIODE	
IC1975	PQ090RD01SZ	IC		D1907	MTZJ33B-T2	Z DIODE	
				D1908	MA3200/MI-X	CHIP ZENER DIODE	
				D1909	1SS133-T2	DIODE	
Q1101	2SC5083/L-P/-T	TRANSISTOR		D1911	RGP10J-5025-T3	SI DIODE	
Q1102	UN2212-X	TRANSISTOR		D1912	RGP10J-5025-T3	SI DIODE	
Q1104	2SA1530A/QR/-X	TRANSISTOR		D1913	RGP10M-5010-T3	SI DIODE	
Q1105	2SC3928A/QR/-X	TRANSISTOR		D1914	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Q1106	2SA1530A/QR/-X	TRANSISTOR		D1915	MTZJ39B-T2	Z DIODE	
Q1107	UN2212-X	TRANSISTOR		D1916	MTZJ15B-T2	Z DIODE	
Q1108	2SC3928A/QR/-X	TRANSISTOR		D1917	1SS133-T2	DIODE	
Q1109	UN2212-X	TRANSISTOR		D1919	1SS133-T2	DIODE	
Q1110	UN2212-X	TRANSISTOR		D1920	MTZJ15B-T2	Z DIODE	
Q1130	2SA1530A/QR/-X	TRANSISTOR		D1950	RGP10J-5025-T3	SI DIODE	
Q1131	UN2212-X	TRANSISTOR		D1952	ERC30-02L38	SI DIODE	
Q1132	2SC3928A/QR/-X	TRANSISTOR		D1953	RGP10J-5025-T3	SI DIODE	
Q1133	2SA1530A/QR/-X	TRANSISTOR		D1954	RU30A-F1	SI DIODE	
Q1134	UN2212-X	TRANSISTOR		D1955	1SR35-400A-T2	SI DIODE	
Q1135	UN2212-X	TRANSISTOR		D1956	31DF6N-FC5	FR DIODE	
Q1136	2SC3928A/QR/-X	TRANSISTOR		D1958	MTZJ5.1A-T2	Z DIODE	
Q1137	2SC3928A/QR/-X	TRANSISTOR		D1960	MA111-X	SI DIODE	
Q1138	UN2212-X	TRANSISTOR		D1961	MA111-X	SI DIODE	
Q1139	UN2212-X	TRANSISTOR		D1964	MA3330/LI-X	Z DIODE	
Q1301	2SA1530A/QR/-X	TRANSISTOR		D1966	MA3047/LI-X	CHIP ZENER DIODE	
Q1302	2SA1530A/QR/-X	TRANSISTOR		D1968	MA111-X	SI DIODE	
Q1303	UN2212-X	TRANSISTOR		D1969	MA111-X	SI DIODE	
Q1304	2SC3928A/QR/-X	TRANSISTOR		D1970	MTZJ9.1B-T2	Z DIODE	
Q1480	2SD1913(RS)	TRANSISTOR		D1971	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
Q1521	BSN304-T	TRANSISTOR					
△Q1522	2SD2634-YD	TRANSISTOR		C1001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1591	2SA1208/ST/Z1-T	TRANSISTOR		C1002	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q1592	UN2212-X	TRANSISTOR		C1003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
Q1660	2SC3928A/QR/-X	TRANSISTOR		C1004	QETN1CM-477Z	E CAPACITOR	470uF 16V M
Q1661	2SC3928A/QR/-X	TRANSISTOR		C1005	NCB31HK-222X	C CAPACITOR	2200pF 50V K
Q1683	2SA1530A/QR/-X	TRANSISTOR		C1006	QETN1CM-336Z	E CAPACITOR	33uF 16V M
Q1684	2SA1530A/QR/-X	TRANSISTOR		C1007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1685	DTC323TK-X	DIGI TRANSISTOR		C1101	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1686	DTC323TK-X	DIGI TRANSISTOR		C1102	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1701	2SA1530A/QR/-X	TRANSISTOR		C1103	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1702	2SA1530A/QR/-X	TRANSISTOR		C1104	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1720	2SA1530A/QR/-X	TRANSISTOR		C1105	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1801	DTC323TK-X	DIGI TRANSISTOR	H OUT	C1106	NDC31HJ-180X	C CAPACITOR	18pF 50V J
Q1802	DTC323TK-X	DIGI TRANSISTOR		C1107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1803	2SA1530A/QR/-X	TRANSISTOR		C1109	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q1804	KTC3199/YG/-T	TRANSISTOR		C1130	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1860	2SC3928A/QR/-X	TRANSISTOR		C1131	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1861	2SA1530A/QR/-X	TRANSISTOR		C1132	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1862	2SA1530A/QR/-X	TRANSISTOR		C1133	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q1901	2SC3852A	POW TRANSISTOR		C1134	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1951	2SA1013/RO/-T	SI TRANSISTOR		C1135	QETN1EM-476Z	E CAPACITOR	47uF 25V M
Q1952	2SC3928A/QR/-X	TRANSISTOR		C1136	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1953	2SC3928A/QR/-X	TRANSISTOR		C1137	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1954	2SC3928A/QR/-X	TRANSISTOR		C1138	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1955	2SC3928A/QR/-X	TRANSISTOR		C1139	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C1140	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1101	1SS268-X	SI DIODE		C1141	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1301	MTZJ5.1B-T2	Z DIODE		C1142	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1401	RGP10J-5025-T3	SI DIODE		C1143	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D1402	MTZJ75-T2	Z DIODE		C1144	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
D1405	1N4003-T2	SI DIODE		C1145	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1408	MA111-X	SI DIODE		C1301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D1480	MTZJ4.3A-T2	Z DIODE		C1302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D1521	RH3G-F1	SI DIODE		C1304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1522	31DF6N-FC5	FR DIODE		C1305	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1523	RGP10J-5025-T3	SI DIODE		C1306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D1541	RGP10J-5025-T3	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	MA3043-X	CHIP ZENER DIODE		C1402	QCB31HK-102Z	C CAPACITOR	1000pF 50V K
D1652	MA3330/LI-X	Z DIODE		C1403	QEHR1VM-107Z	E CAPACITOR	100uF 35V M
				C1406	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1407	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	C1740	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C1411	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1741	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1412	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1742	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1413	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	C1743	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1422	QEHQ1VM-108	E CAPACITOR	1000uF 35V M	C1744	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1471	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1745	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1480	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1746	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1483	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M	C1747	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1485	QETN1HM-226Z	E CAPACITOR	22uF 50V M	C1749	QETN1HM-106Z	E CAPACITOR	10uF 50V M
△C1520	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	C1751	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1521	QETN1VM-476Z	E CAPACITOR	47uF 35V M	C1752	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1522	QFLC1HJ-332Z	M CAPACITOR	3300pF 50V J	C1753	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1523	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	C1801	QETN1HM-106Z	E CAPACITOR	10uF 50V M
△C1524	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	C1802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1525	QFZ0196-123	MPP CAPACITOR	0.012uF 1.5kV H	C1803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1526	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	C1804	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1527	QFZ0199-184	MPP CAPACITOR	0.18uF 250V J	C1805	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1528	QFZ0199-204	MPP CAPACITOR	0.2uF 250V J	C1806	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	C1807	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1808	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1531	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	C1809	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
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	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	C1817	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1591	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1592	QETM2CM-227	E CAPACITOR	220uF 160V M	C1820	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1593	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1821	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1625	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1822	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1626	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	C1823	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1627	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	C1824	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1628	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	C1825	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1629	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1826	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1630	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1827	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1631	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1829	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1632	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1830	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1633	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1831	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1634	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1833	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C1635	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1834	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C1636	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1902	QFZ9077-104	MPP CAPACITOR	0.1uF 250V M
C1637	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1638	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1639	QETN1HM-107Z	E CAPACITOR	100uF 50V M	△C1905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1640	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1907	QEZ0633-337	E CAPACITOR	330uF 450V M
C1641	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1909	QCZ0325-102	C CAPACITOR	1000pF 2kV K
C1643	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1910	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1644	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1911	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1645	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1913	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J
C1646	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1915	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C1647	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1916	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1650	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C1917	QCB32HK-181Z	C CAPACITOR	180pF 500V K
C1651	QEHR1HM-107Z	E CAPACITOR	100uF 50V M	C1918	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C1652	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1919	QCZ0325-391	C CAPACITOR	390pF 2kV K
C1653	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1920	QCZ0122-561	C CAPACITOR	560pF 2kV K
C1654	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1921	QFN31HJ-473Z	M CAPACITOR	0.047uF 50V J
C1655	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1922	QETN2AM-226Z	E CAPACITOR	22uF 100V M
C1656	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1952	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1662	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1953	QEHQ1VM-228	E CAPACITOR	2200uF 35V M
C1681	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1955	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1682	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1956	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1683	QETN1CM-336Z	E CAPACITOR	33uF 16V M	C1957	QCB31HK-471Z	C CAPACITOR	470pF 50V K
C1684	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1958	QEHR1CM-108Z	E CAPACITOR	1000uF 16V M
C1702	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1959	QCZ0364-561	C CAPACITOR	560pF 2kV K
C1703	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1960	QEZ0203-227	E CAPACITOR	220uF 160V M
C1704	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1961	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1706	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1962	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1707	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	C1963	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1709	QETN1CM-477Z	E CAPACITOR	470uF 16V M	C1964	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1710	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1965	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C1711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1966	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1712	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C1967	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1968	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1720	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1969	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C1725	NCB31HK-681X	C CAPACITOR	680pF 50V K	C1970	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1726	QCS32HJ-180Z	C CAPACITOR	18pF 500V J	C1971	NCB31HK-471X	C CAPACITOR	470pF 50V K
C1729	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C1972	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1730	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1974	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1731	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1975	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1732	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1977	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1733	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1978	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1734	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1980	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1735	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1981	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1736	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1982	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1737	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1983	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1738	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1984	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1739	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	C1985	NCB31HK-471X	C CAPACITOR	470pF 50V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1986	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1524	QRL039J-121	OMF RESISTOR	120Ω 3W J
△C1991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R1526	QRL029J-271	OMF RESISTOR	270Ω 2W J
△C1992	QCZ9079-471	C CAPACITOR	470pF AC250V K	R1527	QRL039J-103	OMF RESISTOR	10kΩ 3W J
△C1993	QCZ9079-471	C CAPACITOR	470pF AC250V K	△R1528	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
				△R1529	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R1001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1531	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R1002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1532	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R1003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	R1541	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R1004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1542	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R1005	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R1543	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
R1006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R1545	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R1101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R1546	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R1102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	△R1547	QRL029J-221	OMF RESISTOR	220Ω 2W J
R1103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J		QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R1104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R1592	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R1105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1593	NRSA02F-332X	MG RESISTOR	3.3kΩ 1/10W F
R1106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1594	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R1107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1595	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1623	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1626	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1627	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1115	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1628	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1629	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1130	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1630	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1131	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1132	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1651	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1133	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1652	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1134	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1135	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1136	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1655	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1137	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1656	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1138	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1657	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1139	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1140	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1661	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R1141	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1662	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1142	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1143	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1664	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1144	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1688	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1145	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	R1690	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1146	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1691	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1147	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1695	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1148	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R1701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1149	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1155	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1704	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1705	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1303	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1304	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1707	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1305	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1708	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1306	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1709	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1308	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1712	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1310	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1311	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1317	QRL029J-101	OMF RESISTOR	100Ω 2W J	R1715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1401	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1405	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1718	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1406	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1719	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1408	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1410	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1721	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1411	QRG01GJ-331	OMF RESISTOR	330Ω 1W J	R1722	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1412	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J	R1723	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1413	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J	R1724	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1414	QRE121J-120Y	C RESISTOR	12Ω 1/2W J	R1725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1416	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R1726	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1425	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R1727	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1730	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1480	QRE121J-681Y	C RESISTOR	680Ω 1/2W J	R1731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1481	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1732	NRSA02F-393X	MG RESISTOR	39kΩ 1/10W F
R1482	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1733	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1483	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R1734	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1484	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1735	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1485	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1486	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R1737	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1487	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R1738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1489	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	R1739	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1490	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1740	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1491	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1492	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R1742	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1493	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J	R1744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1494	QRL039J-330	OMF RESISTOR	33Ω 3W J	R1745	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R1521	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1746	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1522	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R1747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1523	QRL039J-121	OMF RESISTOR	120Ω 3W J	R1748	NRSA02J-225X	MG RESISTOR	2.2MΩ 1/10W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R1749	NRSA02J-185X	MG RESISTOR	1.8MΩ 1/10W J	R1974	QRL029J-220	OMF RESISTOR	22Ω 2W J
R1750	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	△R1991	QRZ0057-825	C RESISTOR	8.2MΩ 1W J
R1755	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1001	QQL244K-8R2Z	PEAKING COIL	8.2uH K
R1756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1002	QQL244K-8R2Z	PEAKING COIL	8.2uH K
R1757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1101	QQLZ014-R82	COIL	0.82uH 100mA L
R1758	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1102	QQL244K-180Z	PEAKING COIL	18uH K
R1790	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	L1301	QQL244K-221Z	PEAKING COIL	220uH K
R1801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1401	QQL26AK-220Z	CHOKE COIL	22uH K
R1802	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1480	QQR1138-001	CHOKE COIL	
R1803	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	L1523	QQR1243-001	LINEARITY COIL	
R1804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1541	QQL244K-220Z	PEAKING COIL	22uH K
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	QQLZ034-460	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	△T1901	QQS0226-001	SW TRANSF	
R1813	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	CF1103	QAX0639-001Z	C TRAP	4.500MHz
R1815	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CF1130	QAX0642-001Z	C FILTER	4.500MHz
R1817	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CF1140	QAX0695-001Z	C FILTER	5.500MHz
R1818	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	CF1141	QAX0696-001Z	C FILTER	6.000MHz
R1819	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CF1142	QAX0697-001Z	C FILTER	6.500MHz
R1820	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN1001	QGF1220C2-25	CONNECTOR	FFC/FPC (1-25)
R1821	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	CN100D	WJQ0003-002A	E-SH C WIRE B-B	
R1823	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN100T	QJK002-063231	SIN CR B-B WIRE	
R1824	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	CN10HV	QGZ5004C1-06	CONNECTOR	(1-6)
R1826	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN1DEG	QGZ5004C1-02	CONNECTOR	(1-2)
R1829	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	△CP1951	ICP-N75-Y	IC PROTECTOR	2.7A
R1830	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	△CP1952	ICP-N38-Y	IC PROTECTOR	1.5A
R1831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	△CP1953	ICP-N38-Y	IC PROTECTOR	1.5A
R1832	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	HS1401	LC30416-003A	HEAT SINK	
R1833	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	HS1480	LC32137-001A	HEAT SINK/AL-F/	
R1834	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	HS1522	LC31215-001A	HEAT SINK/FE-P/	
R1835	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	HS1650	GG30059-001A	HEAT SINK	
R1836	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	HS1901	LC31211-002A	HEAT SINK/AL-F/	
R1837	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	J1801	QNZ0454-001	AV JACK	VIDEO1 IN
R1838	QRK126J-121X	UNF C RESISTOR	120Ω 1/2W J	J1802	QNN0349-002	PIN JACK	COMP/VIDEO2 IN
R1839	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	J1803	QNN0348-001	PIN JACK	VIDEO2 L/R IN
R1840	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	J1804	QNN0349-001	PIN JACK	OUTPUT
R1841	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K1101	QQR1114-001Z	FERRITE BEADS	
R1842	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K1704	QQR0582-001Z	FERRITE BEADS	
R1843	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	K1706	QQR1113-001Z	FERRITE BEADS	
R1844	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	K1901	QQR1214-001Y	FERRITE BEADS	
R1845	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K1902	QQR1214-001Y	FERRITE BEADS	
R1846	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	K1903	QQR1214-001Y	FERRITE BEADS	
R1847	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K1904	QQR1113-001Z	FERRITE BEADS	
R1848	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K1905	QQR1113-001Z	FERRITE BEADS	
R1849	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	K1906	QQR1113-001Z	FERRITE BEADS	
R1880	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	K1951	QQR1214-001Y	FERRITE BEADS	
R1881	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K1953	QQR1214-001Y	FERRITE BEADS	
R1882	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	K1954	QQR1214-001Y	FERRITE BEADS	
R1883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	K1955	QQR1214-001Y	FERRITE BEADS	
R1902	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K	△LF1901	QQR1356-001	LINE FILTER	
R1903	QRL039J-393	OMF RESISTOR	39kΩ 3W J	△PC1901	PC123F2	PHOTO COUPLER	
R1904	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	△RY1901	QSK0061-001	RELAY	
R1905	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	SF1101	QAX0325-001	SAW FILTER	
R1906	QRE141J-1R5Y	C RESISTOR	1.5Ω 1/4W J	SF1102	QAX0731-001	SAW FILTER	
R1908	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	△TH1901	QAD0145-2R3	POSISTOR	2.3Ω
R1911	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	TU1001	QAU0287-001	TUNER	
R1912	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J	X1701	QAX0737-001	CRYSTAL	12.000MHz
△R1913	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J				
R1914	QRL039J-473	OMF RESISTOR	47kΩ 3W J				
R1915	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J				
R1916	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J				
R1951	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J				
R1952	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J				
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-2R2	MF RESISTOR	2.2Ω 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				

CRT P.W. BOARD ASS'Y (SCH-3605A-H2)

△Ref No.	Part No.	Part Name	Description	Local
IC3101	TDA6107JF/N3	IC		
Q3101	2SC3311A/QR/-T	TRANSISTOR		
Q3102	2SC3311A/QR/-T	TRANSISTOR		
Q3103	2SC3311A/QR/-T	TRANSISTOR		
Q3104	2SC3311A/QR/-T	TRANSISTOR		
Q3105	2SC3311A/QR/-T	TRANSISTOR		
Q3106	2SC3311A/QR/-T	TRANSISTOR		
Q3107	2SA1309A/QR/-T	SI TRANSISTOR		
Q3121	2SC4212/Z1/	TRANSISTOR		
Q3122	2SA1309A/QR/-T	SI TRANSISTOR		
Q3123	2SA1309A/QR/-T	SI TRANSISTOR		
Q3204	KTC3199/YG/-T	TRANSISTOR		
Q3205	KTC3199/YG/-T	TRANSISTOR		
Q3206	KTA1267/YG/-T	TRANSISTOR		
Q3209	2SA1964/DE/	POW TRANSISTOR		
Q3210	2SC5248/DE/	POW TRANSISTOR		
Q3251	2SA1309A/QR/-T	SI TRANSISTOR		
Q3252	2SC3311A/QR/-T	TRANSISTOR		
Q3253	2SA1309A/QR/-T	SI TRANSISTOR		
Q3261	2SA1309A/QR/-T	SI TRANSISTOR		
Q3262	2SA1309A/QR/-T	SI TRANSISTOR		
Q3263	2SA1309A/QR/-T	SI TRANSISTOR		
Q3264	2SC3311A/QR/-T	TRANSISTOR		
Q3265	2SC3311A/QR/-T	TRANSISTOR		
Q3266	2SC3311A/QR/-T	TRANSISTOR		
D3106	MA165-T2	SI DIODE		
D3107	MA165-T2	SI DIODE		
D3108	MA4075/H/-T2	Z DIODE		
D3109	MA4051/H/-T2	Z DIODE		
D3110	MA165-T2	SI DIODE		
D3111	MA4051/H/-T2	Z DIODE		
D3112	MA165-T2	SI DIODE		
D3113	MA4051/H/-T2	Z DIODE		
D3114	MA165-T2	SI DIODE		
D3115	EU01N-T2	SI DIODE		
D3116	EU01N-T2	SI DIODE		
D3117	EU01N-T2	SI DIODE		
D3121	1N4003-T2	SI DIODE		
D3122	1N4003-T2	SI DIODE		
D3123	1N4003-T2	SI DIODE		
D3125	CH41005-H-05C	FORMING BUS WIR		
D3127	MA165-T2	SI DIODE		
D3128	CH41005-H-05C	FORMING BUS WIR		
D3201	CH41005-H-05C	FORMING BUS WIR		
D3202	CH41005-H-05C	FORMING BUS WIR		
D3203	RGP10J-5025-T3	SI DIODE		
D3204	RGP10J-5025-T3	SI DIODE		
C3101	QETM1CM-477	E CAPACITOR	470uF 16V M	
C3102	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K	
C3107	QETM2EM-106	E CAPACITOR	10uF 250V M	
C3108	QETM2EM-336	E CAPACITOR	33uF 250V M	
C3110	QCZ0131-222	C CAPACITOR	2200pF 2kV K	
C3114	QCS31HJ-151	C CAPACITOR	150pF 50V J	
C3115	QCB31HK-102	C CAPACITOR	1000pF 50V K	
C3121	QETM1HM-335	E CAPACITOR	3.3uF 50V M	
C3123	QETM2EM-475	E CAPACITOR	4.7uF 250V M	
C3204	QCS31HJ-561	C CAPACITOR	560pF 50V J	
C3205	QETM1HM-335	E CAPACITOR	3.3uF 50V M	
C3206	QETM1HM-106	E CAPACITOR	10uF 50V M	
C3207	QCS31HJ-5R0	C CAPACITOR	5pF 50V J	
C3209	QETM1CM-107	E CAPACITOR	100uF 16V M	
C3211	QCS31HJ-821	C CAPACITOR	820pF 50V J	
C3212	QCB32HK-472	C CAPACITOR	4700pF 500V K	
C3213	QCS31HJ-102	C CAPACITOR	1000pF 50V J	
C3214	QETM2CM-106	E CAPACITOR	10uF 160V M	
C3215	QCB32HK-472	C CAPACITOR	4700pF 500V K	
C3216	QETM2CM-106	E CAPACITOR	10uF 160V M	
C3217	QETM1AM-107	E CAPACITOR	100uF 10V M	
C3218	QETM1AM-107	E CAPACITOR	100uF 10V M	
C3219	QETM1AM-337	E CAPACITOR	330uF 10V M	
C3220	QCS32HJ-680	C CAPACITOR	68pF 500V J	
C3251	QENB1HM-105	BP E CAPACITOR	1uF 50V M	
C3252	QCS31HJ-151	C CAPACITOR	150pF 50V J	
C3253	QDC31HJ-560	C CAPACITOR	56pF 50V J	
C3255	QCB31HK-103	C CAPACITOR	0.01uF 50V K	
C3264	QETM1AM-107	E CAPACITOR	100uF 10V M	
C3265	QETM1AM-107	E CAPACITOR	100uF 10V M	
C3266	QETM1AM-107	E CAPACITOR	100uF 10V M	
C3267	QETM1CM-107	E CAPACITOR	100uF 16V M	
R3101	QRE142J-682	C RESISTOR	6.8kΩ 1/4W J	
R3102	QRE142J-102	C RESISTOR	1kΩ 1/4W J	
R3103	QRE142J-153	C RESISTOR	15kΩ 1/4W J	
R3104	QRE142J-682	C RESISTOR	6.8kΩ 1/4W J	

△Ref No.	Part No.	Part Name	Description	Local
R3105	QRE142J-102	C RESISTOR	1kΩ 1/4W J	
R3106	QRE142J-272	C RESISTOR	2.7kΩ 1/4W J	
R3107	QRE142J-682	C RESISTOR	6.8kΩ 1/4W J	
R3108	QRE142J-102	C RESISTOR	1kΩ 1/4W J	
R3109	QRE142J-562	C RESISTOR	5.6kΩ 1/4W J	
R3110	QRE142J-333	C RESISTOR	33kΩ 1/4W J	
R3111	QRE142J-333	C RESISTOR	33kΩ 1/4W J	
R3112	QRE142J-333	C RESISTOR	33kΩ 1/4W J	
R3113	QRE142J-682	C RESISTOR	6.8kΩ 1/4W J	
R3114	QRE142J-123	C RESISTOR	12kΩ 1/4W J	
R3116	QRE142J-104	C RESISTOR	100kΩ 1/4W J	
R3121	QRC122K-561	COMP RESISTOR	560Ω 1/2W K	
R3122	QRC122K-561	COMP RESISTOR	560Ω 1/2W K	
R3123	QRC122K-561	COMP RESISTOR	560Ω 1/2W K	
R3124	CH41005-H-15C	FORMING BUS WIR		
R3125	QRE142J-102	C RESISTOR	1kΩ 1/4W J	
R3126	QRE122J-183	C RESISTOR	18kΩ 1/2W J	
R3128	QRE142J-473	C RESISTOR	47kΩ 1/4W J	
R3129	QRE142J-223	C RESISTOR	22kΩ 1/4W J	
R3130	CH41005-H-05C	FORMING BUS WIR		
R3142	QRE142J-101	C RESISTOR	100Ω 1/4W J	
R3150	QRZ0111-152	C RESISTOR	1.5kΩ 1/2W K	
R3152	QRE142J-101	C RESISTOR	100Ω 1/4W J	
R3160	QRE142J-101	C RESISTOR	100Ω 1/4W J	
R3166	QRZ0111-152	C RESISTOR	1.5kΩ 1/2W K	
R3170	QRZ0111-474	C RESISTOR	470kΩ 1/2W K	
R3171	QRZ0111-152	C RESISTOR	1.5kΩ 1/2W K	
R3172	QRE142J-101	C RESISTOR	100Ω 1/4W J	
△R3175	QRZ9022-R47	FUSI RESISTOR	0.47Ω 1W K	
R3176	QRE122J-823	C RESISTOR	82kΩ 1/2W J	
R3177	QRE142J-681	C RESISTOR	680Ω 1/4W J	
R3178	QRE142J-103	C RESISTOR	10kΩ 1/4W J	
R3179	QRE142J-332	C RESISTOR	3.3kΩ 1/4W J	
R3211	CH41005-H-05C	FORMING BUS WIR		
R3212	QRE142J-153	C RESISTOR	15kΩ 1/4W J	
R3213	QRE142J-222	C RESISTOR	2.2kΩ 1/4W J	
R3214	QRE142J-152	C RESISTOR	1.5kΩ 1/4W J	
R3215	QRE142J-151	C RESISTOR	150Ω 1/4W J	
R3216	QRE142J-221	C RESISTOR	220Ω 1/4W J	
△R3217	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R3221	QRE142J-470	C RESISTOR	47Ω 1/4W J	
R3222	QRE142J-470	C RESISTOR	47Ω 1/4W J	
R3224	QRE142J-122	C RESISTOR	1.2kΩ 1/4W J	
R3225	QRE122J-563	C RESISTOR	56kΩ 1/2W J	
R3226	QRE122J-563	C RESISTOR	56kΩ 1/2W J	
R3227	QRE142J-122	C RESISTOR	1.2kΩ 1/4W J	
R3228	QRE142J-390	C RESISTOR	39Ω 1/4W J	
R3229	QRE122J-2R7	C RESISTOR	2.7Ω 1/2W J	
R3230	QRE122J-2R7	C RESISTOR	2.7Ω 1/2W J	
R3231	QRE142J-390	C RESISTOR	39Ω 1/4W J	
R3232	QRE122J-121	C RESISTOR	120Ω 1/2W J	
R3233	QRL029J-391	OMF RESISTOR	390Ω 2W J	
R3251	QRE142J-822	C RESISTOR	8.2kΩ 1/4W J	
R3252	QRE142J-222	C RESISTOR	2.2kΩ 1/4W J	
R3253	QRE142J-101	C RESISTOR	100Ω 1/4W J	
R3254	QRE142J-563	C RESISTOR	56kΩ 1/4W J	
R3255	QRE142J-223	C RESISTOR	22kΩ 1/4W J	
R3256	QRE142J-681	C RESISTOR	680Ω 1/4W J	
R3257	QRE142J-102	C RESISTOR	1kΩ 1/4W J	
R3258	QRE142J-182	C RESISTOR	1.8kΩ 1/4W J	
R3259	QRE142J-102	C RESISTOR	1kΩ 1/4W J	
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	
R3263	QRE142J-101	C RESISTOR	100Ω 1/4W J	
R3264	QRE142J-222	C RESISTOR	2.2kΩ 1/4W J	
R3265	QRE142J-102	C RESISTOR	1kΩ 1/4W J	
R3266	QRE142J-103	C RESISTOR	10kΩ 1/4W J	
R3267	QRE142J-102	C RESISTOR	1kΩ 1/4W J	
R3268	QRE142J-222	C RESISTOR	2.2kΩ 1/4W J	
R3269	QRE142J-102	C RESISTOR	1kΩ 1/4W J	
R3270	QRE142J-103	C RESISTOR	10kΩ 1/4W J	
R3271	QRE142J-102	C RESISTOR	1kΩ 1/4W J	
R3272	QRE142J-222	C RESISTOR	2.2kΩ 1/4W J	
R3273	QRE142J-102	C RESISTOR	1kΩ 1/4W J	
R3274	QRE142J-103	C RESISTOR	10kΩ 1/4W J	
R3275	QRE142J-102	C RESISTOR	1kΩ 1/4W J	
L3121	QQL244J-5R6Z	COIL	5.6uH J	
L3251	QQL242K-150	PEAKING COIL	15uH K	
CN300U	QJK002-063231	SIN CR B-B WIRE		
CN30SC	QGZ0017C1-01Z	CONNECTOR	(1-1)	
DL3261	CE41925-001	DELAY LINE		
DL3262	CE41925-001	DELAY LINE		
DL3263	CE41925-001	DELAY LINE		
△FR3201	QRZ9021-561	FUSI RESISTOR	560Ω 1W J	
HS3101	LC31150-002A	HEAT SINK/AL-F1		
HS3209	CEHP00N-001QS	HEAT SINK		

△Ref No.	Part No.	Part Name	Description	Local
HS3210	CEHP00N-001QS	HEAT SINK		
K3201	CE41492-001Z	CHOKE COIL		
K3202	CE41492-001Z	CHOKE COIL		
K3203	CE41492-001Z	CHOKE COIL		
K3204	CE41492-001Z	CHOKE COIL		
K3205	QQR1113-001Z	FERRITE BEADS		
SG3101	QAF0056-501Z	SURGE ABSORBER	500V M	
SG3102	QAF0056-501Z	SURGE ABSORBER	500V M	
SG3103	QAF0056-501Z	SURGE ABSORBER	500V M	
△SK3001	QNZ0536-001	CRT SOCKET		

FRONT P.W. BOARD ASS'Y (SCH-8603A-H2)

△Ref No.	Part No.	Part Name	Description	Local
IC8481	LA6515	IC		
IC8801	GP1UM281QK	IR DETECT UNIT	38kHz	
Q8481	2SC3928A/QR/-X	TRANSISTOR		
Q8801	2SA1530A/QR/-X	TRANSISTOR		
D8801	MA111-X	SI DIODE		
D8802	P1241-04	PHOTO CONDUCTOR		
D8803	LH22440-T16	L E D(RED)	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	
R8807	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R8808	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R8809	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R8810	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8811	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R8812	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R8813	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8815	QRE121J-271Y	C RESISTOR	270Ω 1/2W J	
R8816	QRE121J-271Y	C RESISTOR	270Ω 1/2W J	
R8817	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8818	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8819	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R8826	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8830	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R8831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
△R8901	QRZ0111-474	C RESISTOR	470kΩ 1/2W K	
L8401	QQL244K-820Z	PEAKING COIL	82uH K	

△Ref No.	Part No.	Part Name	Description	Local
CN8001	QGF1220C2-25	CONNECTOR	FFC/FPC (1-25)	
CN8002	QJL001-123232	SIN CL B-B WIRE		
CN800A	QJB003-035433	SIN ID C-B WIRE		
CN800W	CHGH0001-AB-GS	CONNECTOR ASSY		
△F8901	QMF51E2-4R0J4	FUSE	4A AC250V	
J8302	QNN0279-003	PIN JACK	VIDEO3 V IN	
J8303	QNN0279-002	PIN JACK	VIDEO3 L IN	
J8304	QNN0279-001	PIN JACK	VIDEO3 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	VARISTOR	620V	

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(No.52197D)



Printed in Japan

WPC

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SERVICE MANUAL

COLOUR TELEVISION

AV-29WX11/GB

BASIC CHASSIS
CH3

Supplementary

The following items for the AV-29WX11/GB model were changed partly from AV-29WX11/G model. Therefore, this service manual describes only the items which differ from those of the AV-29WX11/G model service manual.

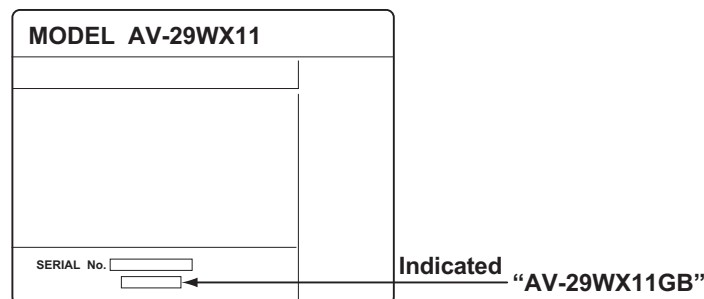
For details other than those described in this manual, please refer to the AV-29WX11/G model service manual (No.52197, 2003/9).

OUTLINE

Since the picture tube was changed, we have issued the SERVICE MANUAL for AV-29WX11/GB.

HOW TO IDENTIFY MODELS

“AV-29WX11GB” is added to the serial No. under at the Rating label.



DIFFERENCE LIST

USING P.W. BOARD (Page 3-2)

P.W.B ASS'Y Name	AV-29WX11/G	AV-29WX11/GB	DESCRIPTION
MAIN P.W.B	SCH-1182A-H2	SCH-1203A-H2	Non compatible
CRT SOCKET P.W.B	SCH-3006A-H2	SCH-3008A-H2	Non compatible

EXPLODED VIEW PARTS LIST-2 (Page 3-4)

△	Ref. No.	PARTS No.		PARTS NAME	DESCRIPTION
		AV-29WX11/G	AV-29WX11/GB		
△	V01	A68QCU770X52K	A68LZU185X	PICTURE TUBE	
△	DY01	-----	QQD0106-001	DEF YOKE	Addition

PRINTING WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (Page 3-6)

△	Ref. No.	PARTS No.		PARTS NAME	DESCRIPTION
		AV-29WX11/G	AV-29WX11/GB		
		SCH-1182A-H2	SCH-1203A-H2		
	C 1540	QFV71HJ-104Z	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
	D 1550	-----	MA8091/H/-X	Z DIODE	Addition

CRT SOCKET P.W. BOARD ASS'Y (Page 3-10)

△	Ref. No.	PARTS No.		PARTS NAME	DESCRIPTION
		AV-29WX11/G	AV-29WX11/GB		
		SCH-3006A-H2	SCH-3008A-H2		
	C 3208	-----	QFLC1HJ-104Z	M CAPACITOR	Addition
	Q 3208	-----	KTC3199/YG/-T	TRANSISTOR	Addition
	R 3113	NRSA63J-682X	NRSA63J-393X	MG RESISTOR	6.8kΩ 1/16W J
	R 3218	-----	NRSA63J-103X	MG RESISTOR	Addition
	R 3219	-----	NRSA63J-153X	MG RESISTOR	Addition

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.52197B)



Printed in Japan
WPC

JVC

SERVICE MANUAL

COLOUR TELEVISION

AV-2932W1/LB

BASIC CHASSIS
CH

Supplementary

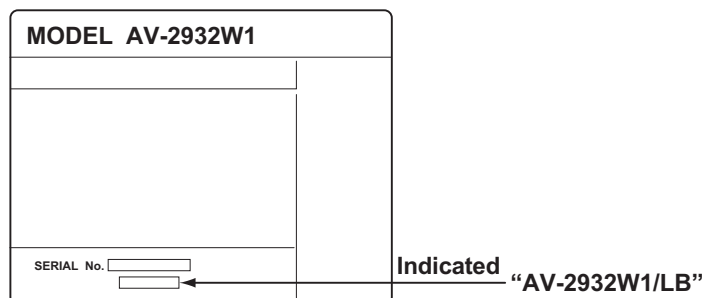
The following items for the AV-2932W1/LB were changed partly from AV-2932W1/E.
Therefore, this service manual describes only the items which differ from those of the AV-2932W1/E service manual.
For details other than those described in this manual, please refer to the AV-2932W1/E service manual (No.52197, 2003/9).

OUTLINE

Since the destination was changed, we have issued the SERVICE MANUAL for AV-2932W1/LB.

HOW TO IDENTIFY MODELS

“AV-2932W1/LB” is added to the serial No. under at the Rating label.



DIFFERENCE LIST

USING P.W. BOARD (Page 3-2)

P.W.B ASS'Y Name	AV-2932W1/E	AV-2932W1/LB	DESCRIPTION
MAIN PWB	SCH-1184A-H2	SCH-1206A-H2	Non compatible

EXPLODED VIEW PARTS LIST-2 (Page 3-4)

△	Ref. No.	PARTS No.		PARTS NAME	DESCRIPTION
		AV-2932W1/E	AV-2932W1/LB		
△	V01	A68QCU770X52K	A68LZU185X	PICTURE TUBE	
△	DY01	-----	QQD0106-001	DEF YOKE	

PRINTING WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (Page 3-22~3-26)

△	Ref. No.	PARTS No.		PARTS NAME	DESCRIPTION
		SCH-1184A-H2	SCH-1206A-H2		
	D1550	-----	MA8091/H/-X	Z DIODE	Addition
	C1527	QFZ0199-184	QFZ0197-224	MPP CAPACITOR	0.22uF 250V J
	C1528	QFZ0199-204	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J
	C1540	QFV71HJ-104Z	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J

PACKING PARTS LIST (Page 3-27)

△	Ref. No.	PARTS No.		PARTS NAME	DESCRIPTION
		AV-2932W1/E	AV-2932W1/LB		
	12	BT-54012-4H	-----	WARRANTY CARD	Delete

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(No.52197C)



Printed in Japan
WPC

PARTS LIST

CAUTION

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

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

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

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

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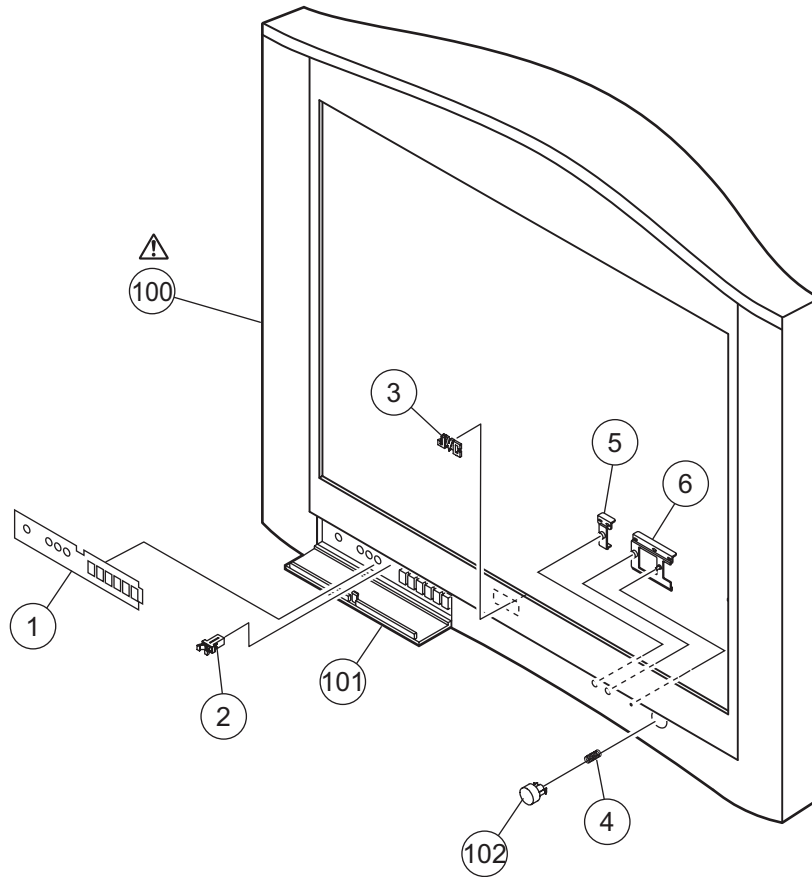
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y	AV-29WX11/G	AV-29WX11/S	AV-29WX11/U	AV-2932W1/E
MAIN P.W.B	SCH-1182A-H2	SCH-1183A-H2	SCH-1185A-H2	SCH-1184A-H2
CRT SOCKET P.W.B	SCH-3006A-H2	←	←	←
FRONT CONTROL P.W.B	SCH-8006A-H2	←	←	←
REMOTE CONTROL UNIT	RM-C1306-1H	←	←	RM-C1309-1H

EXPLODED VIEW PARTS LIST -1

△	Ref.No.	Part No.	Part Name	Description	Local
	1	GG20028-001A-H	OPERATION SHEET		
	2	CM48229-00A-C	DOOR LATCH		
	3	LC41037-003A-H	JVC MARK		
	4	CM35235-003-H	SPRING		
	5	GG30050-001B-H	REMOCON LENS		
	6	GG30049-001B-H	LED LENS		
△	100	GG10189-002A-H	FRONT CABINET ASS'Y	Inc.101,102	AV-29WX11/G,AV-29WX11/S,AV-29WX11/U
△	100	GG10189-006A-H	FRONT CABINET ASS'Y	Inc.101,102	AV-2932W1/E
	101	GG20027-002B-H	DOOR		AV-29WX11/G,AV-29WX11/S,AV-29WX11/U
	101	GG20027-006B-H	DOOR		AV-2932W1/E
	102	GG30048-001B-H	POWER KNOB		

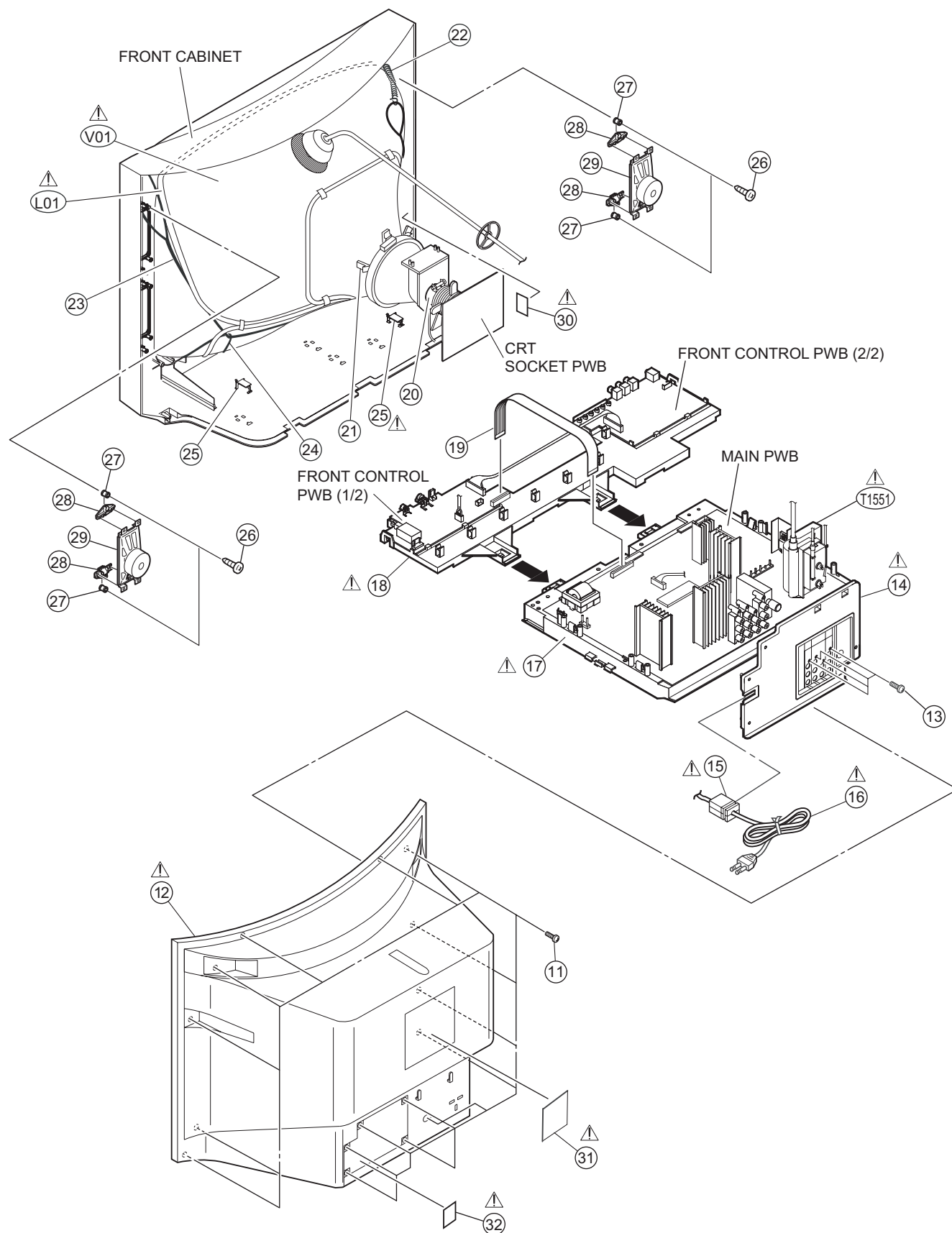
EXPLODED VIEW -1



EXPLODED VIEW PARTS LIST -2

△	Ref.No.	Part No.	Part Name	Description	Local
△	V01	A68QCU770X52K	PICTURE TUBE(ITC)	Inc.DEF YOKE	
△	L01	QQW0150-001	DEG COIL	Inc.ROTATION COIL	
△	T1551	QQH0169-001	FB TRANSF		
	11	QYSBSFG4016Z	TAP SCREW	4.0mm x 16mm(x16)	
△	12	GG10192-001B-H	REAR COVER		AV-29WX11/G,AV-29WX11/S,AV-2932W1/E
△	12	GG10192-002B-H	REAR COVER		AV-29WX11/U
	13	QYSBSF3012M	TAP SCREW	3.0mm x 12mm(x4)	
△	14	LC11064-001B-H	AV BOARD		
△	15	CM23167-A01-H	POWER CORD CLAMP		
△	16	QMPR340-165-K2	POWER CORD	1.65m BLACK	AV-29WX11/G,AV-29WX11/U,AV-2932W1/E
△	16	QMPR370-165-E2	POWER CORD	1.65m BLACK	AV-29WX11/S
△	17	LC11061-001A-H	CHASSIS BASE		
△	18	LC11062-001D-H	CONTROL BASE		
	19	CHFD125-18BD	FFC WIRE		
	20	CE42568-00A	PC MAGNET		
	21	CE40764-00A	WEDGE ASS'Y	(x4)	
	22	A48457-3-H	SPRING		
	23	WJY0018-001A	BRAIDED ASS'Y		
	24	CHGB0017-0C	BRAIDED SUB ASS'Y	(x2)	
△	25	LC30103-001B-H	CHASSIS ADAPTER	(x2)	
	26	LC40317-002A-H	TAP SCREW	(x4)	
	27	LC40226-003A-H	SPACER	(x4)	
	28	GG20023-001B-H	SP HOLDER	(x4)	
	29	QAS0139-001	SPEAKER	(x2) SP01,SP02	
△	30	CM36141-011-H	WARNING LABEL		AV-29WX11/U
△	31	GG20024-001B-H	RATING LABEL		
△	32	CM47692-001-H	HYATT LABEL		AV-29WX11/U

EXPLODED VIEW -2



PRINTED WIRING BOARD PARTS LIST [AV-29WX11/G]

MAIN P.W. BOARD ASS'Y (SCH-1182A-H2)

△Ref No.	Part No.	Part Name	Description Local
IC1130	M52342SP	IC	(SERVICE)
IC1301	TDA9181T/N1-X	IC	
IC1401	LA78041	IC	
IC1461	JLC1562BF-X	IC	
IC1480	UPC358G2-XE	IC	
IC1602	NJW1136GL1-W	IC	
IC1650	AN5277	IC	
IC1701	TDA9386N231215	IC (MCU)	
IC1702	AT24WC0829VX71G	IC	
IC1801	MM1492AF	IC	
IC1901	STR-F6256S-F7	IC	
IC1951	SE135N	IC	
IC1972	MM1563DF-X	IC	
IC1973	L7812CP	IC	
IC1974	MM1565AF-X	IC	
IC1975	PQ090RD01SZ	IC	
Q1101	2SC5083/L-P/-T	TRANSISTOR	
Q1102	UN2212-X	DIGI TRANSISTOR	
Q1104	2SA1530A/QR/-X	TRANSISTOR	
Q1105	2SC3928A/QR/-X	TRANSISTOR	
Q1106	2SA1530A/QR/-X	TRANSISTOR	
Q1107	UN2212-X	DIGI TRANSISTOR	
Q1108	2SC3928A/QR/-X	TRANSISTOR	
Q1109	UN2212-X	DIGI TRANSISTOR	
Q1110	UN2212-X	DIGI TRANSISTOR	
Q1130	2SA1530A/QR/-X	TRANSISTOR	
Q1131	UN2212-X	DIGI TRANSISTOR	
Q1132	2SC3928A/QR/-X	TRANSISTOR	
Q1133	2SA1530A/QR/-X	TRANSISTOR	
Q1134	UN2212-X	DIGI TRANSISTOR	
Q1135	UN2212-X	DIGI TRANSISTOR	
Q1136	2SC3928A/QR/-X	TRANSISTOR	
Q1137	2SC3928A/QR/-X	TRANSISTOR	
Q1138	UN2212-X	DIGI TRANSISTOR	
Q1139	UN2212-X	DIGI TRANSISTOR	
Q1301	2SA1530A/QR/-X	TRANSISTOR	H OUT
Q1302	2SA1530A/QR/-X	TRANSISTOR	
Q1303	UN2212-X	DIGI TRANSISTOR	
Q1304	2SC3928A/QR/-X	TRANSISTOR	
Q1480	2SD1913(RS)	TRANSISTOR	
Q1521	BSN304-T	TRANSISTOR	
△Q1522	2SD2634-YD	TRANSISTOR	
Q1591	2SA1208/ST/Z1-T	TRANSISTOR	
Q1592	UN2212-X	DIGI TRANSISTOR	
Q1660	2SC3928A/QR/-X	TRANSISTOR	
Q1661	2SC3928A/QR/-X	TRANSISTOR	
Q1683	2SA1530A/QR/-X	TRANSISTOR	
Q1684	2SA1530A/QR/-X	TRANSISTOR	
Q1685	DTC323TK-X	DIGI TRANSISTOR	
Q1686	DTC323TK-X	DIGI TRANSISTOR	
Q1701	2SA1530A/QR/-X	TRANSISTOR	
Q1702	2SA1530A/QR/-X	TRANSISTOR	
Q1720	2SA1530A/QR/-X	TRANSISTOR	
Q1801	DTC323TK-X	DIGI TRANSISTOR	
Q1802	DTC323TK-X	DIGI TRANSISTOR	
Q1803	2SA1530A/QR/-X	TRANSISTOR	
Q1804	KTC3199/YG/-T	TRANSISTOR	
Q1860	2SC3928A/QR/-X	TRANSISTOR	
Q1861	2SA1530A/QR/-X	TRANSISTOR	
Q1862	2SA1530A/QR/-X	TRANSISTOR	
Q1901	2SC3852A	POW TRANSISTOR	
Q1951	2SA1013/RO/-T	TRANSISTOR	
Q1952	2SC3928A/QR/-X	TRANSISTOR	
Q1953	2SC3928A/QR/-X	TRANSISTOR	
Q1954	2SC3928A/QR/-X	TRANSISTOR	
Q1955	2SC3928A/QR/-X	TRANSISTOR	
D1101	1SS268-X	SI DIODE	
D1301	MTZJ5.1B-T2	Z DIODE	
D1401	RGP10J-5025-T3	SI DIODE	
D1402	MTZJ75-T2	Z DIODE	
D1405	1N4003-T2	SI DIODE	
D1408	MA111-X	SI DIODE	
D1480	MTZJ4.3A-T2	Z DIODE	
D1521	RH3G-F1	SI DIODE	
D1522	31DF6N-FC5	SI DIODE	
D1523	RGP10J-5025-T3	SI DIODE	
D1541	RGP10J-5025-T3	SI DIODE	
D1551	EU2-T3	SI DIODE	
D1553	RGP10J-5025-T3	SI DIODE	
D1554	RGP10J-5025-T3	SI DIODE	

△Ref No.	Part No.	Part Name	Description Local
D1592	MA3075/H-X	Z DIODE	
D1652	MA3330/L/-X	Z DIODE	
D1653	MA3330/L/-X	Z DIODE	
D1655	MA111-X	SI DIODE	
D1657	MA111-X	SI DIODE	
D1701	MA111-X	SI DIODE	
D1702	MA3020-X	Z DIODE	
D1703	MA3036-X	Z DIODE	
D1730	MA111-X	SI DIODE	
D1731	MA111-X	SI DIODE	
D1732	MA111-X	SI DIODE	
D1733	MA111-X	SI DIODE	
D1801	MA3120/M/-X	Z DIODE	
D1802	MA3120/M/-X	Z DIODE	
D1901	GSIB460	BRIDGE DIODE	
D1902	MTZJ33B-T2	Z DIODE	
D1906	MTZJ27B-T2	Z DIODE	
D1907	MTZJ33B-T2	Z DIODE	
D1908	MA3200/M/-X	Z DIODE	
D1909	1SS133-T2	SI DIODE	
D1911	RGP10J-5025-T3	SI DIODE	
D1912	RGP10J-5025-T3	SI DIODE	
D1913	RGP10M-5010-T3	SI DIODE	
D1914	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
D1915	MTZJ39B-T2	Z DIODE	
D1916	MTZJ15B-T2	Z DIODE	
D1917	1SS133-T2	SI DIODE	
D1919	1SS133-T2	SI DIODE	
D1920	MTZJ15B-T2	Z DIODE	
D1950	RGP10J-5025-T3	SI DIODE	
D1952	ERC30-02L38	SI DIODE	
D1953	RGP10J-5025-T3	SI DIODE	
D1954	RU30A-F1	SI DIODE	
D1955	1SR35-400A-T2	SI DIODE	
D1956	31DF6N-FC5	SI DIODE	
D1958	MTZJ5.1A-T2	Z DIODE	
D1960	MA111-X	SI DIODE	
D1961	MA111-X	SI DIODE	
D1964	MA3330/L/-X	Z DIODE	
D1966	MA3047/L/-X	Z DIODE	
D1968	MA111-X	SI DIODE	
D1969	MA111-X	SI DIODE	
D1970	MTZJ9.1B-T2	Z DIODE	
D1971	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
△PC1901	PC123F2	PHOTO COUPLER	
C1001	NCB31HK-103X	C CAPACITOR	
C1002	QETN1HM-106Z	E CAPACITOR	
C1003	NCB31HK-104X	C CAPACITOR	
C1004	QETN1CM-477Z	E CAPACITOR	
C1005	NCB31HK-222X	C CAPACITOR	
C1006	QETN1CM-336Z	E CAPACITOR	
C1007	NCB31HK-103X	C CAPACITOR	
C1101	NCB31HK-472X	C CAPACITOR	
C1102	NCB31HK-472X	C CAPACITOR	
C1103	NCB31HK-472X	C CAPACITOR	
C1104	NCB31HK-472X	C CAPACITOR	
C1105	NCB31HK-472X	C CAPACITOR	
C1106	NDC31HJ-180X	C CAPACITOR	
C1107	NCB31HK-103X	C CAPACITOR	
C1109	QETN1HM-106Z	E CAPACITOR	
C1130	NCB31HK-103X	C CAPACITOR	
C1131	NCB31HK-103X	C CAPACITOR	
C1132	NCB31HK-103X	C CAPACITOR	
C1133	QETN1CM-107Z	E CAPACITOR	
C1134	NCB31HK-103X	C CAPACITOR	
C1135	QETN1EM-476Z	E CAPACITOR	
C1136	NCB31HK-103X	C CAPACITOR	
C1137	NCB31HK-103X	C CAPACITOR	
C1138	NCB31HK-103X	C CAPACITOR	
C1139	NCB31HK-103X	C CAPACITOR	
C1140	NCB31HK-103X	C CAPACITOR	
C1141	NCB31HK-103X	C CAPACITOR	
C1142	NCB31HK-103X	C CAPACITOR	
C1143	QETN1HM-106Z	E CAPACITOR	
C1144	NCB31HK-223X	C CAPACITOR	
C1145	NCB31HK-103X	C CAPACITOR	
C1301	NCB31CK-104X	C CAPACITOR	
C1302	NCB31CK-104X	C CAPACITOR	
C1304	NCB31HK-103X	C CAPACITOR	
C1305	NCB31HK-103X	C CAPACITOR	
C1306	NCB31CK-104X	C CAPACITOR	
C1307	NDC31HJ-330X	C CAPACITOR	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1732	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1315	QFLC1HJ-473Z	M CAPACITOR	0.047uF 50V J	C1733	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1401	QETN1HM-336Z	E CAPACITOR	33uF 50V M	C1734	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1402	QCB31HK-102Z	C CAPACITOR	1000pF 50V K	C1735	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1403	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	C1736	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1406	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	C1737	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1407	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	C1738	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1411	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1739	NFV91CJ-104X	MPPS CAPACITOR	0.1uF 16V J
C1412	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1740	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
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	C1746	NDC31HJ-101X	C CAPACITOR	100pF 50V J
△C1520	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	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	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	C1753	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1525	QFZ0196-123	MPP CAPACITOR	0.012uF 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	QFZ0199-184	MPP CAPACITOR	0.18uF 250V J	C1803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1528	QFZ0199-204	MPP CAPACITOR	0.2uF 250V J	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	C1806	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1531	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	C1807	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1532	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1808	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1533	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	C1809	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1534	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1810	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1536	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1540	QFV71HJ-104Z	MF CAPACITOR	0.1uF 50V J	C1812	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1541	QETN2EM-106Z	E CAPACITOR	10uF 250V M	C1813	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1550	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	C1814	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1591	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1815	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1592	QETM2CM-227	E CAPACITOR	220uF 160V M	C1817	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1593	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1625	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1820	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1626	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	C1821	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1627	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	C1822	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1628	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	C1823	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1629	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1824	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1630	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1825	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1631	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1826	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1632	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1827	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1633	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1829	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1634	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1830	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1635	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1831	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1636	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1833	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C1637	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1834	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C1638	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1902	QFZ072-104	MM CAPACITOR	0.1uF AC250V K
C1639	QETN1HM-107Z	E CAPACITOR	100uF 50V M	C1903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1640	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1641	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1643	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1907	QEZ0649-337	E CAPACITOR	330uF 400V M
C1644	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1909	QCZ0325-102	C CAPACITOR	1000pF 2kV K
C1645	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1910	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1646	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1911	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1647	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1913	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J
C1650	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C1915	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C1651	QEHR1HM-107Z	E CAPACITOR	100uF 50V M	C1916	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1652	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1917	QCB32HK-181Z	C CAPACITOR	180pF 500V K
C1653	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1918	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C1654	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1919	QCZ0325-391	C CAPACITOR	390pF 2kV K
C1655	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1920	QCZ0122-561	C CAPACITOR	560pF 2kV K
C1656	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1921	QFN31HJ-473Z	M CAPACITOR	0.047uF 50V J
C1662	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1922	QETN2AM-226Z	E CAPACITOR	22uF 100V M
C1681	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1952	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1682	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1953	QEHQ1VM-228	E CAPACITOR	2200uF 35V M
C1683	QETN1CM-336Z	E CAPACITOR	33uF 16V M	C1955	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1684	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1956	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1702	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1957	QCB31HK-471Z	C CAPACITOR	470pF 50V K
C1703	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1958	QEHR1CM-108Z	E CAPACITOR	1000uF 16V M
C1704	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1959	QCZ0364-561	C CAPACITOR	560pF 2kV K
C1706	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1960	QEZ0203-227	E CAPACITOR	220uF 160V M
C1707	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	C1961	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1709	QETN1CM-477Z	E CAPACITOR	470uF 16V M	C1962	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1710	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1963	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1964	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1712	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C1965	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C1713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1966	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1720	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1967	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1725	NCB31HK-681X	C CAPACITOR	680pF 50V K	C1968	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1726	QCS32HJ-180Z	C CAPACITOR	18pF 500V J	C1969	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C1729	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C1970	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1730	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1971	NCB31HK-471X	C CAPACITOR	470pF 50V K
C1731	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1972	QETN1EM-476Z	E CAPACITOR	47uF 25V M

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1974	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1485	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
C1975	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R1486	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C1977	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1487	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C1978	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	R1489	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
C1980	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R1490	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C1981	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R1491	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C1982	QETN1CM-476Z	E CAPACITOR	47uF 16V M	R1492	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C1983	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R1493	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
C1984	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1494	QRL039J-330	OMF RESISTOR	33Ω 3W J
C1985	NCB31HK-471X	C CAPACITOR	470pF 50V K	R1521	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C1986	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1522	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C1991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R1523	QRL039J-121	OMF RESISTOR	120Ω 3W J
△C1992	QCZ9079-471	C CAPACITOR	470pF AC250V K	R1524	QRL039J-121	OMF RESISTOR	120Ω 3W J
△C1993	QCZ9079-471	C CAPACITOR	470pF AC250V K	R1526	QRL029J-271	OMF RESISTOR	270Ω 2W J
				R1527	QRL039J-103	OMF RESISTOR	10kΩ 3W J
R1001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1528	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R1002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1529	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R1003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	R1531	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R1004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1532	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R1005	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R1541	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R1006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R1542	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R1101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R1543	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
R1102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1545	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R1103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R1546	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R1104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	△R1547	QRL029J-221	OMF RESISTOR	220Ω 2W J
R1105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1591	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R1106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1592	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R1107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1593	NRSA02F-332X	MG RESISTOR	3.3kΩ 1/10W F
R1108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1594	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R1109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1595	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1623	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1115	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1626	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1627	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1130	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1628	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1131	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1629	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1132	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1630	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1133	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1134	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1651	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1135	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1652	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1136	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1137	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1138	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1655	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1139	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1656	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1140	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1657	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1141	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1142	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1661	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R1143	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1662	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1144	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1145	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	R1664	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1146	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1688	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1147	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1690	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1148	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R1691	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1149	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1695	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1155	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1303	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1704	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1304	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1705	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1305	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1306	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1707	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1708	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1308	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1709	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1310	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1311	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1712	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1317	QRL029J-101	OMF RESISTOR	100Ω 2W J	R1713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1401	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1405	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1406	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1408	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1718	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1410	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1719	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1411	QRG01GJ-331	OMF RESISTOR	330Ω 1W J	R1720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1412	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J	R1721	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1413	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J	R1722	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1414	QRE121J-120Y	C RESISTOR	12Ω 1/2W J	R1723	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1416	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R1724	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1425	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R1725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1726	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1727	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1480	QRE121J-681Y	C RESISTOR	680Ω 1/2W J	R1728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1481	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1730	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1482	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1483	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R1732	NRSA02F-393X	MG RESISTOR	39kΩ 1/10W F
R1484	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1733	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R1734	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R1958	QRL039J-820	OMF RESISTOR	82Ω 3W J
R1735	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R1959	QRE121J-820Y	C RESISTOR	82Ω 1/2W J
R1736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R1960	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1737	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R1961	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R1738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1962	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R1739	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1963	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R1740	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1964	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1965	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1742	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1966	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1967	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1745	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R1968	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R1746	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R1969	QRT029J-2R2	MF RESISTOR	2.2Ω 2W J
R1747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1970	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1748	NRSA02J-225X	MG RESISTOR	2.2MΩ 1/10W J	R1971	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R1749	NRSA02J-185X	MG RESISTOR	1.8MΩ 1/10W J	R1972	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R1750	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1973	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R1755	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1974	QRL029J-220	OMF RESISTOR	22Ω 2W J
R1756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△R1991	QRZ0057-825	C RESISTOR	8.2MΩ 1W J
R1757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1001	QQL244K-8R2Z	PEAKING COIL	8.2uH K
R1758	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1002	QQL244K-8R2Z	PEAKING COIL	8.2uH K
R1790	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	L1101	QQLZ014-R82	COIL	0.82uH 100mA L
R1801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1102	QQL244K-180Z	PEAKING COIL	18uH K
R1802	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1301	QQL244K-221Z	PEAKING COIL	220uH K
R1803	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	L1401	QQL26AK-220Z	CHOKE COIL	22uH K
R1804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1480	QQR1138-001	CHOKE COIL	
R1805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1523	QQR1243-001	LINEARITY COIL	
R1806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1541	QQL244K-220Z	PEAKING COIL	22uH K
R1807	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1701	QQL244K-100Z	PEAKING COIL	10uH K
R1808	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	L1702	QQL244K-100Z	PEAKING COIL	10uH K
R1809	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	L1731	QQL244J-101Z	PEAKING COIL	100uH J
R1810	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	L1951	QQLZ034-460	HEATER CHOKE	46uH
R1811	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	L1953	QQL244J-5R6Z	COIL	5.6uH J
R1812	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	L1954	QQL26AK-820Z	CHOKE COIL	82uH K
R1813	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	T1521	QQR1229-001	DRIVE TRANSF	
R1815	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△T1901	QQS0226-001	SW TRANSF	
R1817	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
R1819	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CF1140	QAX0695-001Z	C FILTER	5.000MHz
R1820	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CF1141	QAX0696-001Z	C FILTER	6.000MHz
R1821	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	CF1142	QAX0697-001Z	C FILTER	6.500MHz
R1823	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△CP1951	ICP-N75-Y	IC PROTECTOR	2.7A
R1824	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	△CP1952	ICP-N38-Y	IC PROTECTOR	1.5A
R1826	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△CP1953	ICP-N38-Y	IC PROTECTOR	1.5A
R1829	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	J1801	QNZ0454-001	AV JACK	VIDEO1 IN
R1830	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	J1802	QNN0349-002	PIN JACK	COMP/VIDEO2 IN
R1831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	J1803	QNN0348-001	PIN JACK	VIDEO2 L,R IN
R1832	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	J1804	QNN0349-001	PIN JACK	OUTPUT
R1833	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	K1101	QQR1114-001Z	FERRITE BEADS	
R1834	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	K1704	QQR0582-001Z	FERRITE BEADS	
R1835	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	K1706	QQR1113-001Z	FERRITE BEADS	
R1836	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	K1901	QQR1214-001Y	FERRITE BEADS	
R1837	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K1902	QQR1214-001Y	FERRITE BEADS	
R1838	QRK126J-121X	UNF C RESISTOR	120Ω 1/2W J	K1903	QQR1214-001Y	FERRITE BEADS	
R1839	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	K1904	QQR1113-001Z	FERRITE BEADS	
R1840	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	K1905	QQR1113-001Z	FERRITE BEADS	
R1841	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K1906	QQR1113-001Z	FERRITE BEADS	
R1842	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K1951	QQR1214-001Y	FERRITE BEADS	
R1843	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	K1953	QQR1214-001Y	FERRITE BEADS	
R1844	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	K1954	QQR1214-001Y	FERRITE BEADS	
R1845	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K1955	QQR1214-001Y	FERRITE BEADS	
R1846	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	△LF1901	QQR1356-001	LINE FILTER	
R1847	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	△RY1901	QSK0061-001	RELAY	
R1848	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	SF1101	QAX0325-001	SAW FILTER	
R1849	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	SF1102	QAX0731-001	SAW FILTER	
R1880	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	△TH1901	QAD0145-2R3	P THERMISTOR	2.3Ω
R1881	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	TU1001	QAU0287-001	TUNER	
R1882	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	W1010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	W1239	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1902	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K	W1257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1903	QRL039J-393	OMF RESISTOR	39kΩ 3W J	W1273	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1904	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	W1306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1905	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	W1307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1906	QRE141J-1R5Y	C RESISTOR	1.5Ω 1/4W J	W1309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1908	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	W1321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1911	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	W1325	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1912	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J	W1326	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
△R1913	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J	W1334	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1914	QRL039J-473	OMF RESISTOR	47kΩ 3W J	W1360	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1915	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	W1379	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1916	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	W1386	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1951	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J	W1395	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1952	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	W1397	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1953	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	W1405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1954	QRE121J-150Y	C RESISTOR	15Ω 1/2W J	W1406	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1955	QRG01GJ-330	OMF RESISTOR	33Ω 1W J	W1418	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1956	QRE121J-120Y	C RESISTOR	12Ω 1/2W J				
R1957	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J				

△Ref No.	Part No.	Part Name	Description Local
W1423	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1428	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
X1701	QAX0737-001	CRYSTAL	12.000MHz
Y1001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y1130	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y1601	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

CRT SOCKET P.W. BOARD ASS'Y (SCH-3006A-H2)

△Ref No.	Part No.	Part Name	Description Local
IC3101	TDA6107JF/N3	IC	
Q3101	2SC3928A/QR/-X	TRANSISTOR	
Q3102	2SC3928A/QR/-X	TRANSISTOR	
Q3103	2SC3928A/QR/-X	TRANSISTOR	
Q3104	2SC3928A/QR/-X	TRANSISTOR	
Q3105	2SC3928A/QR/-X	TRANSISTOR	
Q3106	2SC3928A/QR/-X	TRANSISTOR	
Q3107	2SA1530A/QR/-X	TRANSISTOR	
Q3121	2SC4212/Z1/	TRANSISTOR	
Q3122	2SA1530A/QR/-X	TRANSISTOR	
Q3123	2SA1530A/QR/-X	TRANSISTOR	
Q3204	KTC3199/YG/-T	TRANSISTOR	
Q3205	KTC3199/YG/-T	TRANSISTOR	
Q3206	KTA1267/YG/-T	TRANSISTOR	
Q3209	2SA1964/DE/	POW TRANSISTOR	
Q3210	2SC5248/DE/	POW TRANSISTOR	
Q3251	2SA1530A/QR/-X	TRANSISTOR	
Q3252	2SC3928A/QR/-X	TRANSISTOR	
Q3253	2SA1530A/QR/-X	TRANSISTOR	
Q3261	2SA1530A/QR/-X	TRANSISTOR	
Q3262	2SA1530A/QR/-X	TRANSISTOR	
Q3263	2SA1530A/QR/-X	TRANSISTOR	
Q3264	2SC3928A/QR/-X	TRANSISTOR	
Q3265	2SC3928A/QR/-X	TRANSISTOR	
Q3266	2SC3928A/QR/-X	TRANSISTOR	
D3106	MA111-X	SI DIODE	
D3107	MA111-X	SI DIODE	
D3108	MA3075/H/-X	Z DIODE	
D3109	MA3051/H/-X	Z DIODE	
D3110	MA111-X	SI DIODE	
D3111	MA3051/H/-X	Z DIODE	
D3112	MA111-X	SI DIODE	
D3113	MA3051/H/-X	Z DIODE	
D3114	MA111-X	SI DIODE	
D3115	EU01N-T2	SI DIODE	
D3116	EU01N-T2	SI DIODE	
D3117	EU01N-T2	SI DIODE	
D3121	1N4003-T2	SI DIODE	
D3122	1N4003-T2	SI DIODE	
D3123	1N4003-T2	SI DIODE	
D3127	MA111-X	SI DIODE	
D3128	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
D3201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
D3202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
D3203	RGP10J-5025-T3	SI DIODE	
D3204	RGP10J-5025-T3	SI DIODE	
C3101	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C3102	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3107	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3108	QETM2EM-336	E CAPACITOR	33uF 250V M
C3110	QCZ0131-222	C CAPACITOR	2200pF 2kV K
C3114	QCS31HJ-151Z	C CAPACITOR	150pF 50V J
C3115	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C3121	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
C3123	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M
C3204	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C3205	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
C3206	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C3207	QCS31HJ-5R0Z	C CAPACITOR	5pF 50V J
C3209	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C3211	NDC31HJ-821X	C CAPACITOR	820pF 50V J
C3212	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
C3213	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C3214	QETN2CM-106Z	E CAPACITOR	10uF 160V M
C3215	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
C3216	QETN2CM-106Z	E CAPACITOR	10uF 160V M
C3217	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C3218	QETN1AM-107Z	E CAPACITOR	100uF 10V M

△Ref No.	Part No.	Part Name	Description Local
C3219	QETN1AM-337Z	E CAPACITOR	330uF 10V M
C3220	QCS32HJ-680Z	C CAPACITOR	68pF 500V J
C3251	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M
C3252	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C3253	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C3255	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3264	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C3265	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C3266	QETN1AM-107Z	E CAPACITOR	100uF 10V M
C3267	QETN1CM-107Z	E CAPACITOR	100uF 16V M
R3101	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R3102	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3103	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R3104	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R3105	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3106	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3107	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R3108	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3109	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3110	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R3111	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R3112	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R3113	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R3114	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R3116	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J
R3121	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R3122	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R3123	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R3125	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3126	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R3128	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R3129	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3130	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3142	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3150	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R3152	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3160	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3166	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R3170	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K
R3171	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R3172	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
△R3175	QRZ9022-R47	FUSI RESISTOR	0.47Ω 1W K
R3176	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R3177	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R3178	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3179	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3211	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3212	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R3213	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R3214	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R3215	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R3216	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
△R3217	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J
R3221	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R3222	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R3224	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3225	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R3226	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R3227	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3228	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R3229	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R3230	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R3231	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R3232	QRE121J-121Y	C RESISTOR	120Ω 1/2W J
R3233	QRL029J-391	OMF RESISTOR	390Ω 2W J
R3251	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R3252	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R3253	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3254	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R3255	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3256	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R3257	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3258	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R3259	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3260	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R3261	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3262	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3263	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3264	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R3265	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3266	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3267	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3268	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R3269	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3270	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3271	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R3272	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J				
R3273	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L8401	QQL244K-820Z	PEAKING COIL	82uH K
R3274	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	△F8901	QMF51E2-4R0J4	FUSE	4A AC250V
R3275	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	FC8901	CEMG002-001Z	FUSE CLIP	(x2)
L3121	QQL244J-5R6Z	COIL	5.6uH J	J8302	QNN0279-003	PIN JACK	VIDEO3 V IN
L3251	QQL244K-150Z	PEAKING COIL	15uH K	J8303	QNN0279-002	PIN JACK	VIDEO3 L IN
CL3001	QZW0028-002	WIRE CLAMP		J8304	QNN0279-001	PIN JACK	VIDEO3 R IN
DL3261	CE41925-001	DELAY LINE		J8801	QNS0155-001	3.5 JACK	HEADPHONE
DL3262	CE41925-001	DELAY LINE		△LF8901	QQR1356-001	LINE FILTER	
DL3263	CE41925-001	DELAY LINE		S8801	QSW0619-003Z	TACT SWITCH	CH+
△FR3201	QRZ9021-561	FUSI RESISTOR	560Ω 1W J	S8802	QSW0619-003Z	TACT SWITCH	CH-
K3201	CE41492-001Z	CHOKE COIL		S8803	QSW0619-003Z	TACT SWITCH	MENU
K3202	CE41492-001Z	CHOKE COIL		S8804	QSW0619-003Z	TACT SWITCH	TV/VIDEO
K3203	CE41492-001Z	CHOKE COIL		S8805	QSW0619-003Z	TACT SWITCH	VOL+
K3204	CE41492-001Z	CHOKE COIL		S8806	QSW0619-003Z	TACT SWITCH	VOL-
K3205	QQR1113-001Z	FERRITE BEADS		△S8901	QSW0750-001	PUSH SWITCH	POWER
△SK3001	QNZ0536-001	CRT SOCKET		△VA8901	QAF0052-621	VARISTOR	620V
W3019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	Y8401	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W3034	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		CM35921-005-H	CDS HOLDER	
					CM36626-B01-H	LED HOLDER	

FRONT CONTROL P.W. BOARD ASS'Y (SCH-8006A-H2)

△Ref No.	Part No.	Part Name	Description Local
IC8481	LA6515	IC	
IC8801	GP1UM281QK	IR DETECT UNIT	38kHz
Q8481	2SC3928A/QR/-X	TRANSISTOR	
Q8801	2SA1530A/QR/-X	TRANSISTOR	
D8801	MA111-X	SI DIODE	
D8802	P1241-04	PHOTO CONDUCTOR	
D8803	LH22440-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
R8807	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R8808	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R8809	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R8810	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R8811	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R8812	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R8813	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R8815	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R8816	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R8817	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8818	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8819	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R8826	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8830	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R8831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
△R8901	QRZ0111-474	C RESISTOR	470kΩ 1/2W K

PRINTED WIRING BOARD PARTS LIST [AV-29WX11/S]

MAIN P.W. BOARD ASS'Y (SCH-1183A-H2)

△Ref No.	Part No.	Part Name	Description Local
IC1130	M52342SP	IC	(SERVICE)
IC1301	TDA9181T/N1-X	IC	
IC1401	LA78041	IC	
IC1461	JLC1562BF-X	IC	
IC1480	UPC358G2-XE	IC	
IC1602	NJW1136GL1-W	IC	
IC1650	AN5277	IC	
IC1701	TDA9386N231215	IC (MCU)	
IC1702	AT24WC0829VX71G	IC	
IC1801	MM1492AF	IC	
IC1901	STR-F6256S-F7	IC	
IC1951	SE135N	IC	
IC1972	MM1563DF-X	IC	
IC1973	L7812CP	IC	
IC1974	MM1565AF-X	IC	
IC1975	PQ090RD01SZ	IC	
Q1101	2SC5083/L-P/-T	TRANSISTOR	
Q1102	UN2212-X	DIGI TRANSISTOR	
Q1104	2SA1530A/QR/-X	TRANSISTOR	
Q1105	2SC3928A/QR/-X	TRANSISTOR	
Q1106	2SA1530A/QR/-X	TRANSISTOR	
Q1107	UN2212-X	DIGI TRANSISTOR	
Q1108	2SC3928A/QR/-X	TRANSISTOR	
Q1109	UN2212-X	DIGI TRANSISTOR	
Q1110	UN2212-X	DIGI TRANSISTOR	
Q1130	2SA1530A/QR/-X	TRANSISTOR	
Q1131	UN2212-X	DIGI TRANSISTOR	
Q1132	2SC3928A/QR/-X	TRANSISTOR	
Q1133	2SA1530A/QR/-X	TRANSISTOR	
Q1134	UN2212-X	DIGI TRANSISTOR	
Q1135	UN2212-X	DIGI TRANSISTOR	
Q1136	2SC3928A/QR/-X	TRANSISTOR	
Q1137	2SC3928A/QR/-X	TRANSISTOR	
Q1138	UN2212-X	DIGI TRANSISTOR	
Q1139	UN2212-X	DIGI TRANSISTOR	
Q1301	2SA1530A/QR/-X	TRANSISTOR	
Q1302	2SA1530A/QR/-X	TRANSISTOR	
Q1303	UN2212-X	DIGI TRANSISTOR	
Q1304	2SC3928A/QR/-X	TRANSISTOR	
Q1480	2SD1913(RS)	TRANSISTOR	
Q1521	BSN304-T	TRANSISTOR	
△Q1522	2SD2634-YD	TRANSISTOR	
Q1591	2SA1208/ST/Z1-T	TRANSISTOR	
Q1592	UN2212-X	DIGI TRANSISTOR	
Q1660	2SC3928A/QR/-X	TRANSISTOR	
Q1661	2SC3928A/QR/-X	TRANSISTOR	
Q1683	2SA1530A/QR/-X	TRANSISTOR	
Q1684	2SA1530A/QR/-X	TRANSISTOR	
Q1685	DTC323TK-X	DIGI TRANSISTOR	
Q1686	DTC323TK-X	DIGI TRANSISTOR	
Q1701	2SA1530A/QR/-X	TRANSISTOR	
Q1702	2SA1530A/QR/-X	TRANSISTOR	
Q1720	2SA1530A/QR/-X	TRANSISTOR	
Q1801	DTC323TK-X	DIGI TRANSISTOR	
Q1802	DTC323TK-X	DIGI TRANSISTOR	
Q1803	2SA1530A/QR/-X	TRANSISTOR	
Q1804	KTC3199/YG/-T	TRANSISTOR	
Q1860	2SC3928A/QR/-X	TRANSISTOR	
Q1861	2SA1530A/QR/-X	TRANSISTOR	
Q1862	2SA1530A/QR/-X	TRANSISTOR	
Q1901	2SC3852A	POW TRANSISTOR	
Q1951	2SA1013/RO/-T	TRANSISTOR	
Q1952	2SC3928A/QR/-X	TRANSISTOR	
Q1953	2SC3928A/QR/-X	TRANSISTOR	
Q1954	2SC3928A/QR/-X	TRANSISTOR	
Q1955	2SC3928A/QR/-X	TRANSISTOR	
D1101	1SS268-X	SI DIODE	(SERVICE)
D1301	MTZJ5.1B-T2	Z DIODE	
D1401	RGP10J-5025-T3	SI DIODE	
D1402	MTZJ75-T2	Z DIODE	
D1405	1N4003-T2	SI DIODE	
D1408	MA111-X	SI DIODE	
D1480	MTZJ4.3A-T2	Z DIODE	
D1521	RH3G-F1	SI DIODE	
D1522	31DF6N-FC5	SI DIODE	
D1523	RGP10J-5025-T3	SI DIODE	
D1541	RGP10J-5025-T3	SI DIODE	
D1551	EU2-T3	SI DIODE	
D1553	RGP10J-5025-T3	SI DIODE	
D1554	RGP10J-5025-T3	SI DIODE	

△Ref No.	Part No.	Part Name	Description	Local
D1592	MA3075/H-X	Z DIODE		
D1652	MA3330/L/-X	Z DIODE		
D1653	MA3330/L/-X	Z DIODE		
D1655	MA111-X	SI DIODE		
D1657	MA111-X	SI DIODE		
D1701	MA111-X	SI DIODE		
D1702	MA3020-X	Z DIODE		
D1703	MA3036-X	Z DIODE		
D1730	MA111-X	SI DIODE		
D1731	MA111-X	SI DIODE		
D1732	MA111-X	SI DIODE		
D1733	MA111-X	SI DIODE		
D1801	MA3120/M/-X	Z DIODE		
D1802	MA3120/M/-X	Z DIODE		
D1901	GSIB460	BRIDGE DIODE		
D1902	MTZJ33B-T2	Z DIODE		
D1906	MTZJ27B-T2	Z DIODE		
D1907	MTZJ33B-T2	Z DIODE		
D1908	MA3200/M/-X	Z DIODE		
D1909	1SS133-T2	SI DIODE		
D1911	RGP10J-5025-T3	SI DIODE		
D1912	RGP10J-5025-T3	SI DIODE		
D1913	RGP10M-5010-T3	SI DIODE		
D1914	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D1915	MTZJ39B-T2	Z DIODE		
D1916	MTZJ15B-T2	Z DIODE		
D1917	1SS133-T2	SI DIODE		
D1919	1SS133-T2	SI DIODE		
D1920	MTZJ15B-T2	Z DIODE		
D1950	RGP10J-5025-T3	SI DIODE		
D1952	ERC30-02L38	SI DIODE		
D1953	RGP10J-5025-T3	SI DIODE		
D1954	RU30A-F1	SI DIODE		
D1955	1SR35-400A-T2	SI DIODE		
D1956	31DF6N-FC5	SI DIODE		
D1958	MTZJ5.1A-T2	Z DIODE		
D1960	MA111-X	SI DIODE		
D1961	MA111-X	SI DIODE		
D1964	MA3330/L/-X	Z DIODE		
D1966	MA3047/L/-X	Z DIODE		
D1968	MA111-X	SI DIODE		
D1969	MA111-X	SI DIODE		
D1970	MTZJ9.1B-T2	Z DIODE		
D1971	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
△PC1901	PC123F2	PHOTO COUPLER		
C1001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1004	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C1005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1006	QETN1CM-336Z	E CAPACITOR	33uF 16V M	
C1007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1101	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1102	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1103	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1104	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1105	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1106	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C1107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1109	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1130	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1131	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1132	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1133	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C1134	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1135	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1136	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1137	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1138	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1139	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1140	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1141	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1142	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1143	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1144	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1145	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1305	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1307	NDC31HJ-330X	C CAPACITOR	33pF 50V J	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1732	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1315	QFLC1HJ-473Z	M CAPACITOR	0.047uF 50V J	C1733	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1401	QETN1HM-336Z	E CAPACITOR	33uF 50V M	C1734	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1402	QCB31HK-102Z	C CAPACITOR	1000pF 50V K	C1735	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1403	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	C1736	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1406	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	C1737	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1407	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	C1738	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1411	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1739	NFV91CJ-104X	MPPS CAPACITOR	0.1uF 16V J
C1412	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1740	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
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	C1746	NDC31HJ-101X	C CAPACITOR	100pF 50V J
△C1520	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	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	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	C1753	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1525	QFZ0196-123	MPP CAPACITOR	0.012uF 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	QFZ0199-184	MPP CAPACITOR	0.18uF 250V J	C1803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1528	QFZ0199-204	MPP CAPACITOR	0.2uF 250V J	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	C1806	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1531	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	C1807	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1532	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1808	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1533	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	C1809	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1534	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1810	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1536	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1540	QFV71HJ-104Z	MF CAPACITOR	0.1uF 50V J	C1812	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1541	QETN2EM-106Z	E CAPACITOR	10uF 250V M	C1813	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1550	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	C1814	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1591	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1815	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1592	QETM2CM-227	E CAPACITOR	220uF 160V M	C1817	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1593	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1625	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1820	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1626	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	C1821	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1627	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	C1822	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1628	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	C1823	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1629	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1824	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1630	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1825	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1631	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1826	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1632	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1827	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1633	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1829	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1634	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1830	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1635	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1831	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1636	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1833	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C1637	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1834	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C1638	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1902	QFZ072-104	MM CAPACITOR	0.1uF AC250V K
C1639	QETN1HM-107Z	E CAPACITOR	100uF 50V M	C1903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1640	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1641	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1643	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1907	QEZ0649-337	E CAPACITOR	330uF 400V M
C1644	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1909	QCZ0325-102	C CAPACITOR	1000pF 2kV K
C1645	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1910	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1646	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1911	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1647	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1913	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J
C1650	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C1915	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C1651	QEHR1HM-107Z	E CAPACITOR	100uF 50V M	C1916	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1652	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1917	QCB32HK-181Z	C CAPACITOR	180pF 500V K
C1653	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1918	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C1654	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1919	QCZ0325-391	C CAPACITOR	390pF 2kV K
C1655	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1920	QCZ0122-561	C CAPACITOR	560pF 2kV K
C1656	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1921	QFN31HJ-473Z	M CAPACITOR	0.047uF 50V J
C1662	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1922	QETN2AM-226Z	E CAPACITOR	22uF 100V M
C1681	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1952	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1682	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1953	QEHQ1VM-228	E CAPACITOR	2200uF 35V M
C1683	QETN1CM-336Z	E CAPACITOR	33uF 16V M	C1955	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1684	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1956	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1702	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1957	QCB31HK-471Z	C CAPACITOR	470pF 50V K
C1703	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1958	QEHR1CM-108Z	E CAPACITOR	1000uF 16V M
C1704	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1959	QCZ0364-561	C CAPACITOR	560pF 2kV K
C1706	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1960	QEZ0203-227	E CAPACITOR	220uF 160V M
C1707	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	C1961	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1709	QETN1CM-477Z	E CAPACITOR	470uF 16V M	C1962	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1710	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1963	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1964	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1712	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C1965	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C1713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1966	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1720	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1967	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1725	NCB31HK-681X	C CAPACITOR	680pF 50V K	C1968	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1726	QCS32HJ-180Z	C CAPACITOR	18pF 500V J	C1969	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C1729	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C1970	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1730	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1971	NCB31HK-471X	C CAPACITOR	470pF 50V K
C1731	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1972	QETN1EM-476Z	E CAPACITOR	47uF 25V M

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1974	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1485	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
C1975	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R1486	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C1977	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1487	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C1978	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	R1489	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
C1980	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R1490	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C1981	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R1491	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C1982	QETN1CM-476Z	E CAPACITOR	47uF 16V M	R1492	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C1983	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R1493	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
C1984	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1494	QRL039J-330	OMF RESISTOR	33Ω 3W J
C1985	NCB31HK-471X	C CAPACITOR	470pF 50V K	R1521	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C1986	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1522	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C1991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R1523	QRL039J-121	OMF RESISTOR	120Ω 3W J
△C1992	QCZ9079-471	C CAPACITOR	470pF AC250V K	R1524	QRL039J-121	OMF RESISTOR	120Ω 3W J
△C1993	QCZ9079-471	C CAPACITOR	470pF AC250V K	R1526	QRL029J-271	OMF RESISTOR	270Ω 2W J
				R1527	QRL039J-103	OMF RESISTOR	10kΩ 3W J
R1001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1528	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R1002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1529	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R1003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	R1531	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R1004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1532	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R1005	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R1541	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R1006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R1542	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R1101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R1543	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
R1102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1545	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R1103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R1546	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R1104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	△R1547	QRL029J-221	OMF RESISTOR	220Ω 2W J
R1105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1591	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R1106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1592	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R1107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1593	NRSA02F-332X	MG RESISTOR	3.3kΩ 1/10W F
R1108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1594	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R1109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1595	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1623	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1115	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1626	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1627	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1130	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1628	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1131	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1629	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1132	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1630	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1133	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1134	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1651	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1135	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1652	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1136	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1137	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1138	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1655	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1139	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1656	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1140	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1657	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1141	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1142	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1661	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R1143	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1662	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1144	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1145	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	R1664	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1146	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1688	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1147	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1690	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1148	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R1691	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1149	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1695	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1155	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1303	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1704	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1304	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1705	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1305	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1306	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1707	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1708	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1308	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1709	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1310	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1311	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1712	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1317	QRL029J-101	OMF RESISTOR	100Ω 2W J	R1713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1401	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1405	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1406	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1408	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1718	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1410	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1719	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1411	QRG01GJ-331	OMF RESISTOR	330Ω 1W J	R1720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1412	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J	R1721	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1413	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J	R1722	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1414	QRE121J-120Y	C RESISTOR	12Ω 1/2W J	R1723	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1416	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R1724	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1425	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R1725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1726	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1727	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1480	QRE121J-681Y	C RESISTOR	680Ω 1/2W J	R1728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1481	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1730	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1482	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1483	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R1732	NRSA02F-393X	MG RESISTOR	39kΩ 1/10W F
R1484	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1733	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R1734	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R1958	QRL039J-820	OMF RESISTOR	82Ω 3W J
R1735	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R1959	QRE121J-820Y	C RESISTOR	82Ω 1/2W J
R1736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R1960	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1737	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R1961	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R1738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1962	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R1739	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1963	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R1740	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1964	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1965	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1742	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1966	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1967	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1745	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R1968	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R1746	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R1969	QRT029J-2R2	MF RESISTOR	2.2Ω 2W J
R1747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1970	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1748	NRSA02J-225X	MG RESISTOR	2.2MΩ 1/10W J	R1971	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R1749	NRSA02J-185X	MG RESISTOR	1.8MΩ 1/10W J	R1972	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R1750	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1973	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R1755	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1974	QRL029J-220	OMF RESISTOR	22Ω 2W J
R1756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△R1991	QRZ0057-825	C RESISTOR	8.2MΩ 1W J
R1757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1001	QQL244K-8R2Z	PEAKING COIL	8.2uH K
R1758	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1002	QQL244K-8R2Z	PEAKING COIL	8.2uH K
R1790	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	L1101	QQLZ014-R82	COIL	0.82uH 100mA L
R1801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1102	QQL244K-180Z	PEAKING COIL	18uH K
R1802	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1301	QQL244K-221Z	PEAKING COIL	220uH K
R1803	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	L1401	QQL26AK-220Z	CHOKE COIL	22uH K
R1804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1480	QQR1138-001	CHOKE COIL	
R1805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1523	QQR1243-001	LINEARITY COIL	
R1806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1541	QQL244K-220Z	PEAKING COIL	22uH K
R1807	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1701	QQL244K-100Z	PEAKING COIL	10uH K
R1808	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	L1702	QQL244K-100Z	PEAKING COIL	10uH K
R1809	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	L1731	QQL244J-101Z	PEAKING COIL	100uH J
R1810	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	L1951	QQLZ034-460	HEATER CHOKE	46uH
R1811	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	L1953	QQL244J-5R6Z	COIL	5.6uH J
R1812	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	L1954	QQL26AK-820Z	CHOKE COIL	82uH K
R1813	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	T1521	QQR1229-001	DRIVE TRANSF	
R1815	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△T1901	QQS0226-001	SW TRANSF	
R1817	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
R1819	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CF1140	QAX0695-001Z	C FILTER	5.000MHz
R1820	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CF1141	QAX0696-001Z	C FILTER	6.000MHz
R1821	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	CF1142	QAX0697-001Z	C FILTER	6.500MHz
R1823	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△CP1951	ICP-N75-Y	IC PROTECTOR	2.7A
R1824	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	△CP1952	ICP-N38-Y	IC PROTECTOR	1.5A
R1826	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△CP1953	ICP-N38-Y	IC PROTECTOR	1.5A
R1829	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	J1801	QNZ0454-001	AV JACK	VIDEO1 IN
R1830	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	J1802	QNN0349-002	PIN JACK	COMP/VIDEO2 IN
R1831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	J1803	QNN0348-001	PIN JACK	VIDEO2 L,R IN
R1832	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	J1804	QNN0349-001	PIN JACK	OUTPUT
R1833	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	K1101	QQR1114-001Z	FERRITE BEADS	
R1834	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	K1704	QQR0582-001Z	FERRITE BEADS	
R1835	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	K1706	QQR1113-001Z	FERRITE BEADS	
R1836	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	K1901	QQR1214-001Y	FERRITE BEADS	
R1837	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K1902	QQR1214-001Y	FERRITE BEADS	
R1838	QRK126J-121X	UNF C RESISTOR	120Ω 1/2W J	K1903	QQR1214-001Y	FERRITE BEADS	
R1839	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	K1904	QQR1113-001Z	FERRITE BEADS	
R1840	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	K1905	QQR1113-001Z	FERRITE BEADS	
R1841	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K1906	QQR1113-001Z	FERRITE BEADS	
R1842	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K1951	QQR1214-001Y	FERRITE BEADS	
R1843	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	K1953	QQR1214-001Y	FERRITE BEADS	
R1844	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	K1954	QQR1214-001Y	FERRITE BEADS	
R1845	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K1955	QQR1214-001Y	FERRITE BEADS	
R1846	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	△LF1901	QQR1356-001	LINE FILTER	
R1847	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	△RY1901	QSK0061-001	RELAY	
R1848	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	SF1101	QAX0325-001	SAW FILTER	
R1849	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	SF1102	QAX0731-001	SAW FILTER	
R1880	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	△TH1901	QAD0145-2R3	P THERMISTOR	2.3Ω
R1881	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	TU1001	QAU0287-001	TUNER	
R1882	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	W1010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	W1239	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1902	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K	W1257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1903	QRL039J-393	OMF RESISTOR	39kΩ 3W J	W1273	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1904	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	W1306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1905	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	W1307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1906	QRE141J-1R5Y	C RESISTOR	1.5Ω 1/4W J	W1309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1908	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	W1321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1911	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	W1325	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1912	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J	W1326	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
△R1913	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J	W1334	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1914	QRL039J-473	OMF RESISTOR	47kΩ 3W J	W1360	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1915	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	W1379	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1916	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	W1386	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1951	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J	W1395	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1952	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	W1397	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1953	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	W1405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1954	QRE121J-150Y	C RESISTOR	15Ω 1/2W J	W1406	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1955	QRG01GJ-330	OMF RESISTOR	33Ω 1W J	W1418	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1956	QRE121J-120Y	C RESISTOR	12Ω 1/2W J				
R1957	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J				

△Ref No.	Part No.	Part Name	Description Local
W1423	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1428	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
X1701	QAX0737-001	CRYSTAL	12.000MHz
Y1001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y1130	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y1601	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

CRT SOCKET P.W. BOARD ASS'Y (SCH-3006A-H2)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

FRONT CONTROL P.W. BOARD ASS'Y (SCH-8006A-H2)

REFER TO PARTS LIST IN PAGE 3-11 FOR THIS P.W. BOARD.

PRINTED WIRING BOARD PARTS LIST [AV-29WX11/U]

MAIN P.W. BOARD ASS'Y (SCH-1185A-H2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC1130	M52342SP	IC	(SERVICE)	D1553	RGP10J-5025-T3	SI DIODE	
IC1301	TDA9181T/N1-X	IC		D1554	RGP10J-5025-T3	SI DIODE	
IC1401	LA78041	IC		D1592	MA3075/H/-X	Z DIODE	
IC1461	JLC1562BF-X	IC		D1593	1SR124-400A-T2	SI DIODE	
IC1480	UPC358G2-XE	IC		D1594	MTZJ7.5S-T2	Z DIODE	
IC1602	NJW1136GL1-W	IC		D1595	MA111-X	SI DIODE	
IC1650	AN5277	IC		D1596	MA111-X	SI DIODE	
IC1701	TDA9386N2311215	IC (MCU)		D1652	MA3330/L/-X	Z DIODE	
IC1702	AT24WC0829VX71G	IC		D1653	MA3330/L/-X	Z DIODE	
IC1801	MM1492AF	IC		D1655	MA111-X	SI DIODE	
IC1901	STR-F6256S-F7	IC		D1657	MA111-X	SI DIODE	
IC1951	SE135N	IC		D1701	MA111-X	SI DIODE	
IC1972	MM1563DF-X	IC		D1702	MA3020-X	Z DIODE	
IC1973	L7812CP	IC		D1703	MA3036-X	Z DIODE	
IC1974	MM1565AF-X	IC		D1730	MA111-X	SI DIODE	
IC1975	PQ090RD01SZ	IC		D1731	MA111-X	SI DIODE	
				D1732	MA111-X	SI DIODE	
				D1733	MA111-X	SI DIODE	
Q1101	2SC5083/L-P/-T	TRANSISTOR		D1801	MA3120/M/-X	Z DIODE	
Q1102	UN2212-X	DIGI TRANSISTOR		D1802	MA3120/M/-X	Z DIODE	
Q1104	2SA1530A/QR/-X	TRANSISTOR		D1901	GSIB460	BRIDGE DIODE	
Q1105	2SC3928A/QR/-X	TRANSISTOR		D1902	MTZJ33B-T2	Z DIODE	
Q1106	2SA1530A/QR/-X	TRANSISTOR		D1906	MTZJ27B-T2	Z DIODE	
Q1107	UN2212-X	DIGI TRANSISTOR		D1907	MTZJ33B-T2	Z DIODE	
Q1108	2SC3928A/QR/-X	TRANSISTOR		D1908	MA3200/M/-X	Z DIODE	
Q1109	UN2212-X	DIGI TRANSISTOR		D1909	1SS133-T2	SI DIODE	
Q1110	UN2212-X	DIGI TRANSISTOR		D1911	RGP10J-5025-T3	SI DIODE	
Q1130	2SA1530A/QR/-X	TRANSISTOR		D1912	RGP10J-5025-T3	SI DIODE	
Q1131	UN2212-X	DIGI TRANSISTOR		D1913	RGP10M-5010-T3	SI DIODE	
Q1132	2SC3928A/QR/-X	TRANSISTOR		D1914	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Q1133	2SA1530A/QR/-X	TRANSISTOR		D1915	MTZJ39B-T2	Z DIODE	
Q1134	UN2212-X	DIGI TRANSISTOR		D1916	MTZJ15B-T2	Z DIODE	
Q1135	UN2212-X	DIGI TRANSISTOR		D1917	1SS133-T2	SI DIODE	
Q1136	2SC3928A/QR/-X	TRANSISTOR		D1919	1SS133-T2	SI DIODE	
Q1137	2SC3928A/QR/-X	TRANSISTOR		D1920	MTZJ15B-T2	Z DIODE	
Q1138	UN2212-X	DIGI TRANSISTOR		D1950	RGP10J-5025-T3	SI DIODE	
Q1139	UN2212-X	DIGI TRANSISTOR		D1952	ERC30-02L38	SI DIODE	
Q1301	2SA1530A/QR/-X	TRANSISTOR		D1953	RGP10J-5025-T3	SI DIODE	
Q1302	2SA1530A/QR/-X	TRANSISTOR		D1954	RU30A-F1	SI DIODE	
Q1303	UN2212-X	DIGI TRANSISTOR		D1955	1SR35-400A-T2	SI DIODE	
Q1304	2SC3928A/QR/-X	TRANSISTOR		D1956	31DF6N-FC5	SI DIODE	
Q1480	2SD1913(RS)	TRANSISTOR		D1958	MTZJ5.1A-T2	Z DIODE	
Q1521	BSN304-T	TRANSISTOR		D1960	MA111-X	SI DIODE	
△Q1522	2SD2634-YD	TRANSISTOR	H OUT	D1961	MA111-X	SI DIODE	
Q1523	2SC2785/JH/-T	SI TRANSISTOR		D1964	MA3330/L/-X	Z DIODE	
Q1524	2SA1530A/QR/-X	TRANSISTOR		D1966	MA3047/L/-X	Z DIODE	
Q1591	2SA1208/ST/Z1-T	TRANSISTOR		D1968	MA111-X	SI DIODE	
Q1592	UN2212-X	DIGI TRANSISTOR		D1969	MA111-X	SI DIODE	
Q1660	2SC3928A/QR/-X	TRANSISTOR		D1970	MTZJ9.1B-T2	Z DIODE	
Q1661	2SC3928A/QR/-X	TRANSISTOR		D1971	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
Q1683	2SA1530A/QR/-X	TRANSISTOR					
Q1684	2SA1530A/QR/-X	TRANSISTOR		△PC1901	PC123F2	PHOTO COUPLER	
Q1685	DTC323TK-X	DIGI TRANSISTOR		C1001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1686	DTC323TK-X	DIGI TRANSISTOR		C1002	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q1701	2SA1530A/QR/-X	TRANSISTOR		C1003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
Q1702	2SA1530A/QR/-X	TRANSISTOR		C1004	QETN1CM-477Z	E CAPACITOR	470uF 16V M
Q1720	2SA1530A/QR/-X	TRANSISTOR		C1005	NCB31HK-222X	C CAPACITOR	2200pF 50V K
Q1801	DTC323TK-X	DIGI TRANSISTOR		C1006	QETN1CM-336Z	E CAPACITOR	33uF 16V M
Q1802	DTC323TK-X	DIGI TRANSISTOR		C1007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1803	2SA1530A/QR/-X	TRANSISTOR		C1101	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1804	KTC3199/YG/-T	TRANSISTOR		C1102	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1860	2SC3928A/QR/-X	TRANSISTOR		C1103	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1861	2SA1530A/QR/-X	TRANSISTOR		C1104	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1862	2SA1530A/QR/-X	TRANSISTOR		C1105	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q1901	2SC3852A	POW TRANSISTOR		C1106	NDC31HJ-180X	C CAPACITOR	18pF 50V J
Q1951	2SA1013/RO/-T	TRANSISTOR		C1107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1952	2SC3928A/QR/-X	TRANSISTOR		C1109	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q1953	2SC3928A/QR/-X	TRANSISTOR		C1130	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1954	2SC3928A/QR/-X	TRANSISTOR		C1131	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1955	2SC3928A/QR/-X	TRANSISTOR		C1132	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C1133	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D1101	1SS268-X	SI DIODE		C1134	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1301	MTZJ5.1B-T2	Z DIODE		C1135	QETN1EM-476Z	E CAPACITOR	47uF 25V M
D1401	RGP10J-5025-T3	SI DIODE		C1136	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1402	MTZJ75-T2	Z DIODE		C1137	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1405	1N4003-T2	SI DIODE		C1138	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1408	MA111-X	SI DIODE		C1139	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1480	MTZJ4.3A-T2	Z DIODE		C1140	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1521	RH3G-F1	SI DIODE		C1141	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1522	31DF6N-FC5	SI DIODE		C1142	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1523	RGP10J-5025-T3	SI DIODE		C1143	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D1541	RGP10J-5025-T3	SI DIODE		C1144	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
D1551	EU2-T3	SI DIODE		C1145	NCB31HK-103X	C CAPACITOR	0.01uF 50V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1720	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1725	NCB31HK-681X	C CAPACITOR	680pF 50V K
C1305	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1726	QCS32HJ-180Z	C CAPACITOR	18pF 500V J
C1306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1729	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1307	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1730	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1731	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C1315	QFLC1HJ-473Z	M CAPACITOR	0.047uF 50V J	C1732	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1401	QETN1HM-336Z	E CAPACITOR	33uF 50V M	C1733	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1402	QCB31HK-102Z	C CAPACITOR	1000pF 50V K	C1734	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1403	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	C1735	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1406	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	C1736	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1407	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	C1737	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1411	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1738	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1412	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1739	NFV91CJ-104X	MPPS CAPACITOR	0.1uF 16V J
C1413	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	C1740	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C1422	QEHQ1VM-108	E CAPACITOR	1000uF 35V M	C1741	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1471	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1742	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1480	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1743	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1483	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M	C1744	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1485	QETN1HM-226Z	E CAPACITOR	22uF 50V M	C1745	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1521	QETN1VM-476Z	E CAPACITOR	47uF 35V M	C1746	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1522	QFLC1HJ-332Z	M CAPACITOR	3300pF 50V J	C1747	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
C1523	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	C1749	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1524	QFZ0196-562	MPP CAPACITOR	5600pF 1.5KV H	C1751	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1525	QFZ0196-123	MPP CAPACITOR	0.012uF 1.5KV H	C1752	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1526	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	C1753	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1527	QFZ0199-184	MPP CAPACITOR	0.18uF 250V J	C1801	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1528	QFZ0199-204	MPP CAPACITOR	0.2uF 250V J	C1802	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	C1803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1804	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1531	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	C1805	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1532	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1806	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1533	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	C1807	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1534	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1808	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1536	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	C1809	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1537	QETN1VM-476Z	E CAPACITOR	47uF 35V M	C1810	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1538	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1540	QFV71HJ-104Z	MF CAPACITOR	0.1uF 50V J	C1812	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1541	QETN2EM-106Z	E CAPACITOR	10uF 250V M	C1813	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1550	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	C1814	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1591	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1815	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1592	QETM2CM-227	E CAPACITOR	220uF 160V M	C1817	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1593	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1625	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1820	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1626	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	C1821	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1627	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	C1822	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1628	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	C1823	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1629	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1824	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1630	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1825	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1631	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1826	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1632	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1827	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1633	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1829	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1634	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1830	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1635	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1831	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1636	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1833	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C1637	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1834	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C1638	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1902	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
C1639	QETN1HM-107Z	E CAPACITOR	100uF 50V M	C1903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1640	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1641	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1643	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1907	QEZ0649-337	E CAPACITOR	330uF 400V M
C1644	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1909	QCZ0325-102	C CAPACITOR	1000pF 2kV K
C1645	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1910	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1646	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1911	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1647	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1913	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J
C1650	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C1915	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C1651	QEHR1HM-107Z	E CAPACITOR	100uF 50V M	C1916	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1652	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1917	QCB32HK-181Z	C CAPACITOR	180pF 500V K
C1653	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1918	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C1654	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1919	QCZ0325-391	C CAPACITOR	390pF 2kV K
C1655	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1920	QCZ0122-561	C CAPACITOR	560pF 2kV K
C1656	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1921	QFN31HJ-473Z	M CAPACITOR	0.047uF 50V J
C1662	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1922	QETN2AM-226Z	E CAPACITOR	22uF 100V M
C1681	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1952	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1682	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1953	QEHQ1VM-228	E CAPACITOR	2200uF 35V M
C1683	QETN1CM-336Z	E CAPACITOR	33uF 16V M	C1955	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1684	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1956	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1702	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1957	QCB31HK-471Z	C CAPACITOR	470pF 50V K
C1703	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1958	QEHR1CM-108Z	E CAPACITOR	1000uF 16V M
C1704	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1959	QCZ0364-561	C CAPACITOR	560pF 2kV K
C1706	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1960	QEZ0203-227	E CAPACITOR	220uF 160V M
C1707	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	C1961	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1709	QETN1CM-477Z	E CAPACITOR	470uF 16V M	C1962	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1710	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1963	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1964	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1712	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C1965	QETN1VM-476Z	E CAPACITOR	47uF 35V M

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1966	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C1967	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C1968	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R1480	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
C1969	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	R1481	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C1970	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R1482	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C1971	NCB31HK-471X	C CAPACITOR	470pF 50V K	R1483	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C1972	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1484	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C1974	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1485	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
C1975	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R1486	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C1977	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1487	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C1978	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	R1489	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
C1980	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R1490	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C1981	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R1491	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C1982	QETN1CM-476Z	E CAPACITOR	47uF 16V M	R1492	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C1983	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R1493	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
C1984	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1494	QRL039J-330	OMF RESISTOR	33Ω 3W J
C1985	NCB31HK-471X	C CAPACITOR	470pF 50V K	R1521	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C1986	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1522	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C1991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R1523	QRL039J-121	OMF RESISTOR	120Ω 3W J
△C1992	QCZ9079-471	C CAPACITOR	470pF AC250V K	R1524	QRL039J-121	OMF RESISTOR	120Ω 3W J
△C1993	QCZ9079-471	C CAPACITOR	470pF AC250V K	R1526	QRL029J-271	OMF RESISTOR	270Ω 2W J
				R1527	QRL039J-103	OMF RESISTOR	10kΩ 3W J
R1001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1528	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R1002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1529	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R1003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	R1531	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R1004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1532	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R1005	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R1533	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R1006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R1534	NRSA02F-362X	MG RESISTOR	3.6kΩ 1/10W F
R1101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R1535	NRSA02F-6341X	MG RESISTOR	6.34kΩ 1/10W F
R1102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1536	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R1537	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R1104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R1538	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R1105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1539	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1541	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R1107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1542	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R1108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1543	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
R1109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1545	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R1111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1546	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R1113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	△R1547	QRL029J-221	OMF RESISTOR	220Ω 2W J
R1114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1591	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R1115	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1592	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R1117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1593	NRSA02F-332X	MG RESISTOR	3.3kΩ 1/10W F
R1130	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1594	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R1131	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1595	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1132	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1623	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1133	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1134	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1135	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1626	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1136	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1627	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1137	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1628	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1138	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1629	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1139	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1630	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1140	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1141	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1651	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1142	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1652	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1143	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1144	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1145	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	R1655	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1146	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1656	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1147	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1657	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1148	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R1660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1149	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1661	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R1155	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1662	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1664	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1303	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1688	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1304	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1690	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1305	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1691	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1306	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1695	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1308	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1310	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1704	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1311	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1705	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1317	QRL029J-101	OMF RESISTOR	100Ω 2W J	R1706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1401	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1707	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1708	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1405	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1709	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1406	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1408	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1410	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1712	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1411	QRG01GJ-331	OMF RESISTOR	330Ω 1W J	R1713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1412	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J	R1714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1413	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J	R1715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1414	QRE121J-120Y	C RESISTOR	12Ω 1/2W J	R1716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1416	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R1717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1425	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R1718	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R1719	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1908	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1911	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
R1721	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1912	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J
R1722	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1913	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J
R1723	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1914	QRL039J-473	OMF RESISTOR	47kΩ 3W J
R1724	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1915	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R1725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1916	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R1726	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1951	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
R1727	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R1952	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1953	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
R1730	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1954	QRE121J-150Y	C RESISTOR	15Ω 1/2W J
R1731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1955	QRG01GJ-330	OMF RESISTOR	33Ω 1W J
R1732	NRSA02F-393X	MG RESISTOR	39kΩ 1/10W F	R1956	QRE121J-120Y	C RESISTOR	12Ω 1/2W J
R1733	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R1957	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J
R1734	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R1958	QRL039J-820	OMF RESISTOR	82Ω 3W J
R1735	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R1959	QRE121J-820Y	C RESISTOR	82Ω 1/2W J
R1736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R1960	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1737	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R1961	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R1738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1962	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R1739	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1963	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R1740	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1964	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1965	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1742	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1966	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1967	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1745	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R1968	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R1746	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R1969	QRT029J-2R2	MF RESISTOR	2.2Ω 2W J
R1747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1970	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1748	NRSA02J-225X	MG RESISTOR	2.2MΩ 1/10W J	R1971	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R1749	NRSA02J-185X	MG RESISTOR	1.8MΩ 1/10W J	R1972	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R1750	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1973	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R1755	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1974	QRL029J-220	OMF RESISTOR	22Ω 2W J
R1756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△R1991	QRZ0057-825	C RESISTOR	8.2MΩ 1W J
R1757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1001	QQL244K-8R2Z	PEAKING COIL	8.2uH K
R1758	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1002	QQL244K-8R2Z	PEAKING COIL	8.2uH K
R1790	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	L1101	QQLZ014-R82	COIL	0.82uH 100mA L
R1801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1102	QQL244K-180Z	PEAKING COIL	18uH K
R1802	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1301	QQL244K-221Z	PEAKING COIL	220uH K
R1803	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	L1401	QQL26AK-220Z	CHOKE COIL	22uH K
R1804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1480	QQR1138-001	CHOKE COIL	
R1805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1523	QQR1243-001	LINEARITY COIL	
R1806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1541	QQL244K-220Z	PEAKING COIL	22uH K
R1807	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1701	QQL244K-100Z	PEAKING COIL	10uH K
R1808	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	L1702	QQL244K-100Z	PEAKING COIL	10uH K
R1809	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	L1731	QQL244J-101Z	PEAKING COIL	100uH J
R1810	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	L1951	QQLZ034-460	HEATER CHOKE	46uH
R1811	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	L1953	QQL244J-5R6Z	COIL	5.6uH J
R1812	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	L1954	QQL26AK-820Z	CHOKE COIL	82uH K
R1813	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	T1521	QQR1229-001	DRIVE TRANSF	
R1815	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△T1901	QQS0226-001	SW TRANSF	
R1817	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
R1819	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CF1140	QAX0695-001Z	C FILTER	5.500MHz
R1820	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CF1141	QAX0696-001Z	C FILTER	6.000MHz
R1821	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	CF1142	QAX0697-001Z	C FILTER	6.500MHz
R1822	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	△CP1951	ICP-N75-Y	IC PROTECTOR	2.7A
R1826	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△CP1952	ICP-N38-Y	IC PROTECTOR	1.5A
R1829	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	△CP1953	ICP-N38-Y	IC PROTECTOR	1.5A
R1830	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	J1801	ICNZ0454-001	AV JACK	VIDEO1 IN
R1831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	J1802	QNN0349-002	PIN JACK	COMP/VIDEO2 IN
R1832	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	J1803	QNN0348-001	PIN JACK	VIDEO2 L,R IN
R1833	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	J1804	QNN0349-001	PIN JACK	OUTPUT
R1834	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	K1101	QQR1114-001Z	FERRITE BEADS	
R1835	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	K1704	QQR0582-001Z	FERRITE BEADS	
R1836	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	K1706	QQR1113-001Z	FERRITE BEADS	
R1837	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K1901	QQR1214-001Y	FERRITE BEADS	
R1838	QRK126J-121X	UNF C RESISTOR	120Ω 1/2W J	K1902	QQR1214-001Y	FERRITE BEADS	
R1839	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	K1903	QQR1214-001Y	FERRITE BEADS	
R1840	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	K1904	QQR1113-001Z	FERRITE BEADS	
R1841	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K1905	QQR1113-001Z	FERRITE BEADS	
R1842	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K1906	QQR1113-001Z	FERRITE BEADS	
R1843	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	K1951	QQR1214-001Y	FERRITE BEADS	
R1844	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	K1953	QQR1214-001Y	FERRITE BEADS	
R1845	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K1954	QQR1214-001Y	FERRITE BEADS	
R1846	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	K1955	QQR1214-001Y	FERRITE BEADS	
R1847	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	△LF1901	QQR1356-001	LINE FILTER	
R1848	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△RY1901	QSK0061-001	RELAY	
R1849	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	SF1101	QAX0325-001	SAW FILTER	
R1880	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	SF1102	QAX0731-001	SAW FILTER	
R1881	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	△TH1901	QAD0145-2R3	P THERMISTOR	2.3Ω
R1882	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	TU1001	QAU0287-001	TUNER	
R1883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	W1010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1902	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K	W1239	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1903	QRL039J-393	OMF RESISTOR	39kΩ 3W J	W1257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1904	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	W1273	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1905	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	W1306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1906	QRE141J-1R5Y	C RESISTOR	1.5Ω 1/4W J				

△Ref No.	Part No.	Part Name	Description Local
W1307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1325	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1326	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1334	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1360	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1379	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1386	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1395	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1397	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1406	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1418	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1423	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1428	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
X1701	QAX0737-001	CRYSTAL	12.000MHz
Y1001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y1130	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y1601	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

CRT SOCKET P.W. BOARD ASS'Y (SCH-3006A-H2)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

FRONT CONTROL P.W. BOARD ASS'Y (SCH-8006A-H2)

REFER TO PARTS LIST IN PAGE 3-11 FOR THIS P.W. BOARD.

PRINTED WIRING BOARD PARTS LIST [AV-2932W1/E]

MAIN P.W. BOARD ASS'Y (SCH-1184A-H2)

△Ref No.	Part No.	Part Name	Description Local
IC1130	M52342SP	IC	(SERVICE)
IC1301	TDA9181T/N1-X	IC	
IC1401	LA78041	IC	
IC1461	JLC1562BF-X	IC	
IC1480	UPC358G2-XE	IC	
IC1602	NJW1136GL1-W	IC	
IC1650	AN5277	IC	
IC1701	TDA9365N241291	IC (MCU)	
IC1702	AT24WC0829VX71G	IC	
IC1801	MM1492AF	IC	
IC1901	STR-F6256S-F7	IC	
IC1951	SE135N	IC	
IC1972	MM1563DF-X	IC	
IC1973	L7812CP	IC	
IC1974	MM1565AF-X	IC	
IC1975	PQ090RD01SZ	IC	
Q1101	2SC5083/L-P/-T	TRANSISTOR	
Q1102	UN2212-X	DIGI TRANSISTOR	
Q1104	2SA1530A/QR/-X	TRANSISTOR	
Q1105	2SC3928A/QR/-X	TRANSISTOR	
Q1106	2SA1530A/QR/-X	TRANSISTOR	
Q1107	UN2212-X	DIGI TRANSISTOR	
Q1108	2SC3928A/QR/-X	TRANSISTOR	
Q1109	UN2212-X	DIGI TRANSISTOR	
Q1110	UN2212-X	DIGI TRANSISTOR	
Q1130	2SA1530A/QR/-X	TRANSISTOR	
Q1131	UN2212-X	DIGI TRANSISTOR	
Q1132	2SC3928A/QR/-X	TRANSISTOR	
Q1133	2SA1530A/QR/-X	TRANSISTOR	
Q1134	UN2212-X	DIGI TRANSISTOR	
Q1135	UN2212-X	DIGI TRANSISTOR	
Q1136	2SC3928A/QR/-X	TRANSISTOR	
Q1137	2SC3928A/QR/-X	TRANSISTOR	
Q1138	UN2212-X	DIGI TRANSISTOR	
Q1139	UN2212-X	DIGI TRANSISTOR	
Q1301	2SA1530A/QR/-X	TRANSISTOR	H OUT
Q1302	2SA1530A/QR/-X	TRANSISTOR	
Q1303	UN2212-X	DIGI TRANSISTOR	
Q1304	2SC3928A/QR/-X	TRANSISTOR	
Q1480	2SD1913(RS)	TRANSISTOR	
Q1521	BSN304-T	TRANSISTOR	
△Q1522	2SD2634-YD	TRANSISTOR	
Q1591	2SA1208/ST/Z1-T	TRANSISTOR	
Q1592	UN2212-X	DIGI TRANSISTOR	
Q1660	2SC3928A/QR/-X	TRANSISTOR	
Q1661	2SC3928A/QR/-X	TRANSISTOR	
Q1683	2SA1530A/QR/-X	TRANSISTOR	
Q1684	2SA1530A/QR/-X	TRANSISTOR	
Q1685	DTC323TK-X	DIGI TRANSISTOR	
Q1686	DTC323TK-X	DIGI TRANSISTOR	
Q1701	2SA1530A/QR/-X	TRANSISTOR	
Q1702	2SA1530A/QR/-X	TRANSISTOR	
Q1720	2SA1530A/QR/-X	TRANSISTOR	
Q1801	DTC323TK-X	DIGI TRANSISTOR	
Q1802	DTC323TK-X	DIGI TRANSISTOR	
Q1803	2SA1530A/QR/-X	TRANSISTOR	
Q1804	KTC3199/YG/-T	TRANSISTOR	
Q1860	2SC3928A/QR/-X	TRANSISTOR	
Q1861	2SA1530A/QR/-X	TRANSISTOR	
Q1862	2SA1530A/QR/-X	TRANSISTOR	
Q1901	2SC3852A	POW TRANSISTOR	
Q1951	2SA1013/RO/-T	TRANSISTOR	
Q1952	2SC3928A/QR/-X	TRANSISTOR	
Q1953	2SC3928A/QR/-X	TRANSISTOR	
Q1954	2SC3928A/QR/-X	TRANSISTOR	
Q1955	2SC3928A/QR/-X	TRANSISTOR	
D1101	1SS268-X	SI DIODE	
D1301	MTZJ5.1B-T2	Z DIODE	
D1401	RGP10J-5025-T3	SI DIODE	
D1402	MTZJ75-T2	Z DIODE	
D1405	1N4003-T2	SI DIODE	
D1408	MA111-X	SI DIODE	
D1480	MTZJ4.3A-T2	Z DIODE	
D1521	RH3G-F1	SI DIODE	
D1522	31DF6N-FC5	SI DIODE	
D1523	RGP10J-5025-T3	SI DIODE	
D1541	RGP10J-5025-T3	SI DIODE	
D1551	EU2-T3	SI DIODE	
D1553	RGP10J-5025-T3	SI DIODE	
D1554	RGP10J-5025-T3	SI DIODE	

△Ref No.	Part No.	Part Name	Description Local
D1592	MA3075/H-X	Z DIODE	
D1652	MA3330/L/-X	Z DIODE	
D1653	MA3330/L/-X	Z DIODE	
D1655	MA111-X	SI DIODE	
D1657	MA111-X	SI DIODE	
D1701	MA111-X	SI DIODE	
D1702	MA3020-X	Z DIODE	
D1703	MA3036-X	Z DIODE	
D1730	MA111-X	SI DIODE	
D1731	MA111-X	SI DIODE	
D1732	MA111-X	SI DIODE	
D1733	MA111-X	SI DIODE	
D1801	MA3120/M/-X	Z DIODE	
D1802	MA3120/M/-X	Z DIODE	
D1901	GSIB460	BRIDGE DIODE	
D1902	MTZJ33B-T2	Z DIODE	
D1906	MTZJ27B-T2	Z DIODE	
D1907	MTZJ33B-T2	Z DIODE	
D1908	MA3200/M/-X	Z DIODE	
D1909	1SS133-T2	SI DIODE	
D1911	RGP10J-5025-T3	SI DIODE	
D1912	RGP10J-5025-T3	SI DIODE	
D1913	RGP10M-5010-T3	SI DIODE	
D1914	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
D1915	MTZJ39B-T2	Z DIODE	
D1916	MTZJ15B-T2	Z DIODE	
D1917	1SS133-T2	SI DIODE	
D1919	1SS133-T2	SI DIODE	
D1920	MTZJ15B-T2	Z DIODE	
D1950	RGP10J-5025-T3	SI DIODE	
D1952	ERC30-02L38	SI DIODE	
D1953	RGP10J-5025-T3	SI DIODE	
D1954	RU30A-F1	SI DIODE	
D1955	1SR35-400A-T2	SI DIODE	
D1956	31DF6N-FC5	SI DIODE	
D1958	MTZJ5.1A-T2	Z DIODE	
D1960	MA111-X	SI DIODE	
D1961	MA111-X	SI DIODE	
D1964	MA3330/L/-X	Z DIODE	
D1966	MA3047/L/-X	Z DIODE	
D1968	MA111-X	SI DIODE	
D1969	MA111-X	SI DIODE	
D1970	MTZJ9.1B-T2	Z DIODE	
D1971	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
△PC1901	PC123F2	PHOTO COUPLER	
C1001	NCB31HK-103X	C CAPACITOR	
C1002	QETN1HM-106Z	E CAPACITOR	
C1003	NCB31HK-104X	C CAPACITOR	
C1004	QETN1CM-477Z	E CAPACITOR	
C1005	NCB31HK-222X	C CAPACITOR	
C1006	QETN1CM-336Z	E CAPACITOR	
C1007	NCB31HK-103X	C CAPACITOR	
C1101	NCB31HK-472X	C CAPACITOR	
C1102	NCB31HK-472X	C CAPACITOR	
C1103	NCB31HK-472X	C CAPACITOR	
C1104	NCB31HK-472X	C CAPACITOR	
C1105	NCB31HK-472X	C CAPACITOR	
C1106	NDC31HJ-180X	C CAPACITOR	
C1107	NCB31HK-103X	C CAPACITOR	
C1109	QETN1HM-106Z	E CAPACITOR	
C1130	NCB31HK-103X	C CAPACITOR	
C1131	NCB31HK-103X	C CAPACITOR	
C1132	NCB31HK-103X	C CAPACITOR	
C1133	QETN1CM-107Z	E CAPACITOR	
C1134	NCB31HK-103X	C CAPACITOR	
C1135	QETN1EM-476Z	E CAPACITOR	
C1136	NCB31HK-103X	C CAPACITOR	
C1137	NCB31HK-103X	C CAPACITOR	
C1138	NCB31HK-103X	C CAPACITOR	
C1139	NCB31HK-103X	C CAPACITOR	
C1140	NCB31HK-103X	C CAPACITOR	
C1141	NCB31HK-103X	C CAPACITOR	
C1142	NCB31HK-103X	C CAPACITOR	
C1143	QETN1HM-106Z	E CAPACITOR	
C1144	NCB31HK-223X	C CAPACITOR	
C1145	NCB31HK-103X	C CAPACITOR	
C1301	NCB31CK-104X	C CAPACITOR	
C1302	NCB31CK-104X	C CAPACITOR	
C1304	NCB31HK-103X	C CAPACITOR	
C1305	NCB31HK-103X	C CAPACITOR	
C1306	NCB31CK-104X	C CAPACITOR	
C1307	NDC31HJ-330X	C CAPACITOR	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1732	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1315	QFLC1HJ-473Z	M CAPACITOR	0.047uF 50V J	C1733	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1401	QETN1HM-336Z	E CAPACITOR	33uF 50V M	C1734	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1402	QCB31HK-102Z	C CAPACITOR	1000pF 50V K	C1735	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C1403	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	C1736	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1406	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	C1737	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1407	QCS32HJ-560Z	C CAPACITOR	56pF 500V J	C1738	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1411	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1739	NFV91CJ-104X	MPPS CAPACITOR	0.1uF 16V J
C1412	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1740	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
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	C1746	NDC31HJ-101X	C CAPACITOR	100pF 50V J
△C1520	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	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	QFZ0196-282	MPP CAPACITOR	2800pF 1.5kV H	C1753	NCB21HK-104X	C CAPACITOR	0.1uF 50V K
C1525	QFZ0196-123	MPP CAPACITOR	0.012uF 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	QFZ0199-184	MPP CAPACITOR	0.18uF 250V J	C1803	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1528	QFZ0199-204	MPP CAPACITOR	0.2uF 250V J	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	C1806	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1531	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	C1807	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1532	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1808	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1533	QEHR1EM-108Z	E CAPACITOR	1000uF 25V M	C1809	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1534	QCB32HK-561Z	C CAPACITOR	560pF 500V K	C1810	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1536	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1540	QFV71HJ-104Z	MF CAPACITOR	0.1uF 50V J	C1812	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1541	QETN2EM-106Z	E CAPACITOR	10uF 250V M	C1813	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1550	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	C1814	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1591	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1815	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1592	QETM2CM-227	E CAPACITOR	220uF 160V M	C1817	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1593	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1625	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1820	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1626	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	C1821	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1627	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	C1822	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1628	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	C1823	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1629	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1824	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1630	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1825	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1631	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1826	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1632	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1827	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1633	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1829	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1634	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1830	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1635	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1831	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1636	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1833	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C1637	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1834	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C1638	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	△C1902	QFZ072-104	MM CAPACITOR	0.1uF AC250V K
C1639	QETN1HM-107Z	E CAPACITOR	100uF 50V M	C1903	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1640	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	C1904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1641	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	C1905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z
C1643	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1907	QEZ0633-337	E CAPACITOR	330uF 450V M
C1644	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C1909	QCZ0325-102	C CAPACITOR	1000pF 2kV K
C1645	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1910	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1646	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C1911	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1647	NCF21EZ-474X	C CAPACITOR	0.47uF 25V Z	C1913	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J
C1650	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C1915	QCB32HK-222Z	C CAPACITOR	2200pF 500V K
C1651	QEHR1HM-107Z	E CAPACITOR	100uF 50V M	C1916	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1652	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1917	QCB32HK-181Z	C CAPACITOR	180pF 500V K
C1653	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1918	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C1654	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1919	QCZ0325-391	C CAPACITOR	390pF 2kV K
C1655	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1920	QCZ0122-561	C CAPACITOR	560pF 2kV K
C1656	NCF21HZ-224X	C CAPACITOR	0.22uF 50V Z	C1921	QFN31HJ-473Z	M CAPACITOR	0.047uF 50V J
C1662	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1922	QETN2AM-226Z	E CAPACITOR	22uF 100V M
C1681	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1952	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1682	QETN1CM-227Z	E CAPACITOR	220uF 16V M	C1953	QEHQ1VM-228	E CAPACITOR	2200uF 35V M
C1683	QETN1CM-336Z	E CAPACITOR	33uF 16V M	C1955	QCB32HK-471Z	C CAPACITOR	470pF 500V K
C1684	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1956	QETN1VM-107Z	E CAPACITOR	100uF 35V M
C1702	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1957	QCB31HK-471Z	C CAPACITOR	470pF 50V K
C1703	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1958	QEHR1CM-108Z	E CAPACITOR	1000uF 16V M
C1704	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1959	QCZ0364-561	C CAPACITOR	560pF 2kV K
C1706	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1960	QEZ0203-227	E CAPACITOR	220uF 160V M
C1707	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	C1961	QETN1CM-476Z	E CAPACITOR	47uF 16V M
C1709	QETN1CM-477Z	E CAPACITOR	470uF 16V M	C1962	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1710	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1963	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1964	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1712	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C1965	QETN1VM-476Z	E CAPACITOR	47uF 35V M
C1713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1966	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1720	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1967	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1725	NCB31HK-681X	C CAPACITOR	680pF 50V K	C1968	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1726	QCS32HJ-180Z	C CAPACITOR	18pF 500V J	C1969	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C1729	QETN1CM-476Z	E CAPACITOR	47uF 16V M	C1970	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1730	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1971	NCB31HK-471X	C CAPACITOR	470pF 50V K
C1731	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	C1972	QETN1EM-476Z	E CAPACITOR	47uF 25V M

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1974	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1485	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
C1975	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R1486	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C1977	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1487	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C1978	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	R1489	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
C1980	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R1490	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C1981	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R1491	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C1982	QETN1CM-476Z	E CAPACITOR	47uF 16V M	R1492	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C1983	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R1493	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
C1984	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1494	QRL039J-330	OMF RESISTOR	33Ω 3W J
C1985	NCB31HK-471X	C CAPACITOR	470pF 50V K	R1521	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C1986	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1522	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C1991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R1523	QRL039J-121	OMF RESISTOR	120Ω 3W J
△C1992	QCZ9079-471	C CAPACITOR	470pF AC250V K	R1524	QRL039J-121	OMF RESISTOR	120Ω 3W J
△C1993	QCZ9079-471	C CAPACITOR	470pF AC250V K	R1526	QRL029J-271	OMF RESISTOR	270Ω 2W J
				R1527	QRL039J-103	OMF RESISTOR	10kΩ 3W J
R1001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1528	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R1002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1529	QRZ9021-1R0	FUSI RESISTOR	1Ω 1W J
R1003	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	R1531	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R1004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	△R1532	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R1005	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R1541	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
R1006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R1542	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
R1101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R1543	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
R1102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1545	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R1103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R1546	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
R1104	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	△R1547	QRL029J-221	OMF RESISTOR	220Ω 2W J
R1105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1591	QRA14CF-1202Y	CMF RESISTOR	12kΩ 1/4W F
R1106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1592	QRZ0225-2R2	UNF RESISTOR	2.2Ω 7W K
R1107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1593	NRSA02F-332X	MG RESISTOR	3.3kΩ 1/10W F
R1108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1594	QRE121J-183Y	C RESISTOR	18kΩ 1/2W J
R1109	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1595	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1623	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1115	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1626	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1627	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1130	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1628	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1131	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1629	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1132	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1630	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1133	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1650	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1134	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1651	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1135	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1652	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1136	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1653	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1137	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1138	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1655	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1139	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1656	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1140	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1657	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
R1141	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1142	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R1661	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R1143	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1662	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1144	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R1663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1145	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	R1664	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1146	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1688	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R1147	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1690	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1148	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R1691	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1149	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1695	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1155	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1303	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1704	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1304	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1705	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1305	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1306	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1707	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1708	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1308	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1709	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1710	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1310	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1311	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1712	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1317	QRL029J-101	OMF RESISTOR	100Ω 2W J	R1713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1401	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1405	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1406	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1408	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1718	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1410	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1719	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1411	QRG01GJ-331	OMF RESISTOR	330Ω 1W J	R1720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1412	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J	R1721	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1413	QRX01GJ-1R2	MF RESISTOR	1.2Ω 1W J	R1722	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1414	QRE121J-120Y	C RESISTOR	12Ω 1/2W J	R1723	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1416	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R1724	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1425	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R1725	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1726	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1727	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1480	QRE121J-681Y	C RESISTOR	680Ω 1/2W J	R1728	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1481	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1730	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1482	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1483	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R1732	NRSA02F-393X	MG RESISTOR	39kΩ 1/10W F
R1484	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1733	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R1734	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R1958	QRL039J-820	OMF RESISTOR	82Ω 3W J
R1735	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R1959	QRE121J-820Y	C RESISTOR	82Ω 1/2W J
R1736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R1960	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R1737	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R1961	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R1738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1962	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R1739	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1963	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R1740	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1964	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1965	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1742	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1966	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1744	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1967	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1745	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R1968	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R1746	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R1969	QRT029J-2R2	MF RESISTOR	2.2Ω 2W J
R1747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1970	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1748	NRSA02J-225X	MG RESISTOR	2.2MΩ 1/10W J	R1971	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R1749	NRSA02J-185X	MG RESISTOR	1.8MΩ 1/10W J	R1972	QRE121J-182Y	C RESISTOR	1.8kΩ 1/2W J
R1750	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1973	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R1755	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1974	QRL029J-220	OMF RESISTOR	22Ω 2W J
R1756	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△R1991	QRZ0057-825	C RESISTOR	8.2MΩ 1W J
R1757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1001	QQL244K-8R2Z	PEAKING COIL	8.2uH K
R1758	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1002	QQL244K-8R2Z	PEAKING COIL	8.2uH K
R1790	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	L1101	QQLZ014-R82	COIL	0.82uH 100mA L
R1801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1102	QQL244K-180Z	PEAKING COIL	18uH K
R1802	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1301	QQL244K-221Z	PEAKING COIL	220uH K
R1803	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	L1401	QQL26AK-220Z	CHOKE COIL	22uH K
R1804	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1480	QQR1138-001	CHOKE COIL	
R1805	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1523	QQR1243-001	LINEARITY COIL	
R1806	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1541	QQL244K-220Z	PEAKING COIL	22uH K
R1807	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	L1701	QQL244K-100Z	PEAKING COIL	10uH K
R1808	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	L1702	QQL244K-100Z	PEAKING COIL	10uH K
R1809	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	L1731	QQL244J-101Z	PEAKING COIL	100uH J
R1810	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	L1951	QQLZ034-460	HEATER CHOKE	46uH
R1811	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	L1953	QQL244J-5R6Z	COIL	5.6uH J
R1812	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	L1954	QQL26AK-820Z	CHOKE COIL	82uH K
R1813	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	T1521	QQR1229-001	DRIVE TRANSF	
R1815	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△T1901	QQS0226-001	SW TRANSF	
R1817	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
R1819	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CF1140	QAX0695-001Z	C FILTER	5.000MHz
R1820	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CF1141	QAX0696-001Z	C FILTER	6.000MHz
R1821	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	CF1142	QAX0697-001Z	C FILTER	6.500MHz
R1823	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△CP1951	ICP-N75-Y	IC PROTECTOR	2.7A
R1824	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	△CP1952	ICP-N38-Y	IC PROTECTOR	1.5A
R1826	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△CP1953	ICP-N38-Y	IC PROTECTOR	1.5A
R1829	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	J1801	QNZ0454-001	AV JACK	VIDEO1 IN
R1830	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	J1802	QNN0349-002	PIN JACK	COMP/VIDEO2 IN
R1831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	J1803	QNN0348-001	PIN JACK	VIDEO2 L,R IN
R1832	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	J1804	QNN0349-001	PIN JACK	OUTPUT
R1833	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	K1101	QQR1114-001Z	FERRITE BEADS	
R1834	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	K1704	QQR0582-001Z	FERRITE BEADS	
R1835	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	K1706	QQR1113-001Z	FERRITE BEADS	
R1836	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	K1901	QQR1214-001Y	FERRITE BEADS	
R1837	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K1902	QQR1214-001Y	FERRITE BEADS	
R1838	QRK126J-121X	UNF C RESISTOR	120Ω 1/2W J	K1903	QQR1214-001Y	FERRITE BEADS	
R1839	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	K1904	QQR1113-001Z	FERRITE BEADS	
R1840	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	K1905	QQR1113-001Z	FERRITE BEADS	
R1841	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K1906	QQR1113-001Z	FERRITE BEADS	
R1842	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K1951	QQR1214-001Y	FERRITE BEADS	
R1843	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	K1953	QQR1214-001Y	FERRITE BEADS	
R1844	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	K1954	QQR1214-001Y	FERRITE BEADS	
R1845	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K1955	QQR1214-001Y	FERRITE BEADS	
R1846	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	△LF1901	QQR1356-001	LINE FILTER	
R1847	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	△RY1901	QSK0061-001	RELAY	
R1848	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	SF1101	QAX0325-001	SAW FILTER	
R1849	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	SF1102	QAX0731-001	SAW FILTER	
R1880	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	△TH1901	QAD0145-2R3	P THERMISTOR	2.3Ω
R1881	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	TU1001	QAU0287-001	TUNER	
R1882	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	W1010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	W1239	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1902	QRF154K-2R2	UNF WW RESISTOR	2.2Ω 15W K	W1257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1903	QRL039J-393	OMF RESISTOR	39kΩ 3W J	W1273	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1904	QRE121J-221Y	C RESISTOR	220Ω 1/2W J	W1306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1905	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	W1307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1906	QRE141J-1R5Y	C RESISTOR	1.5Ω 1/4W J	W1309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1908	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	W1321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1911	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	W1325	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1912	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J	W1326	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
△R1913	QRZ9017-100	FUSI RESISTOR	10Ω 1/4W J	W1334	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1914	QRL039J-473	OMF RESISTOR	47kΩ 3W J	W1360	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1915	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	W1379	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1916	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	W1386	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1951	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J	W1395	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1952	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	W1397	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1953	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	W1405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1954	QRE121J-150Y	C RESISTOR	15Ω 1/2W J	W1406	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1955	QRG01GJ-330	OMF RESISTOR	33Ω 1W J	W1418	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1956	QRE121J-120Y	C RESISTOR	12Ω 1/2W J				
R1957	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J				

△Ref No.	Part No.	Part Name	Description Local
W1423	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
W1428	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
X1701	QAX0737-001	CRYSTAL	12.000MHz
Y1001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y1130	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Y1601	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

CRT SOCKET P.W. BOARD ASS'Y (SCH-3006A-H2)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

FRONT CONTROL P.W. BOARD ASS'Y (SCH-8006A-H2)

REFER TO PARTS LIST IN PAGE 3-11 FOR THIS P.W. BOARD.

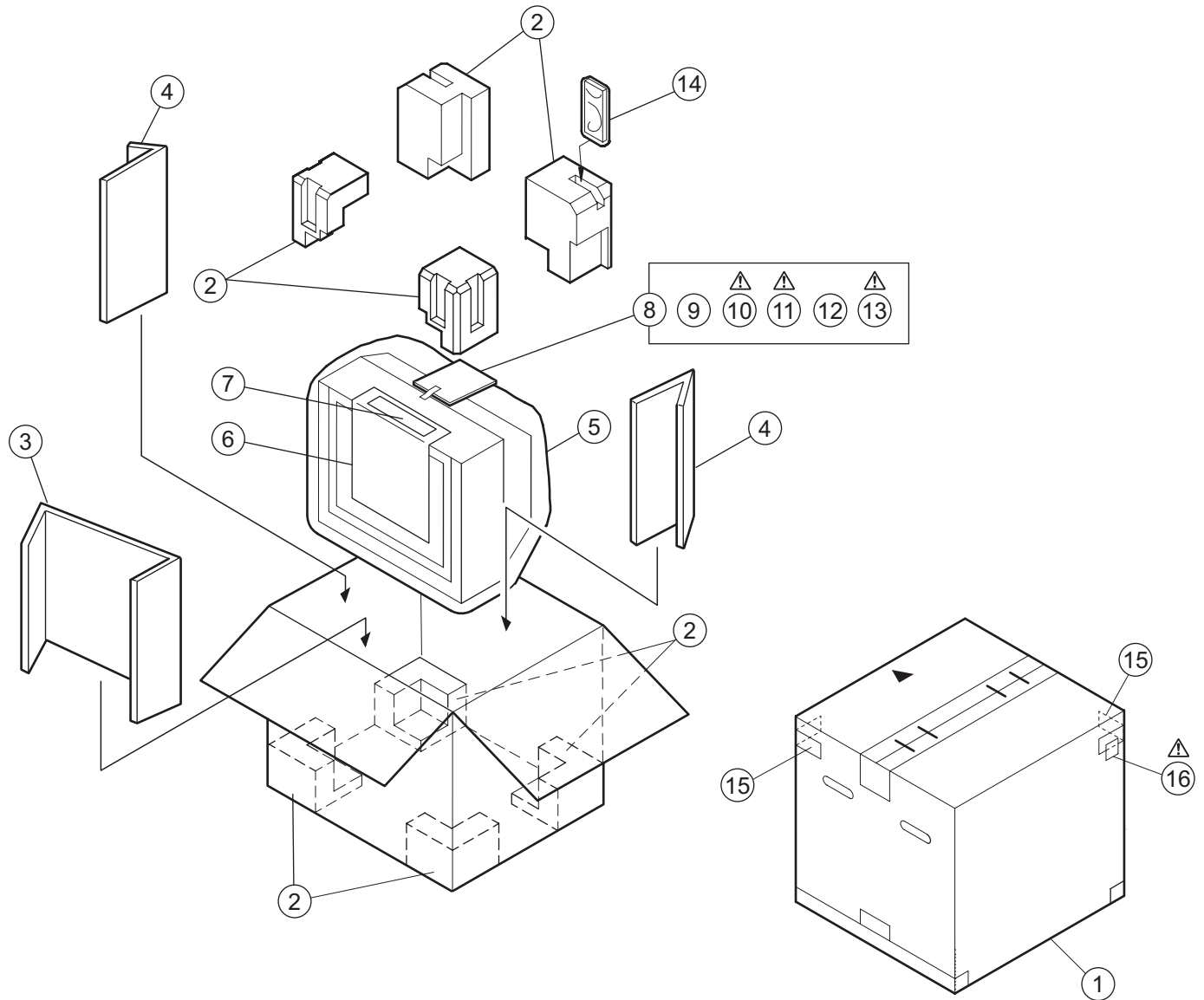
REMOTE CONTROL UNIT PARTS LIST (RM-C1306-1H) [AV-29WX11/G, AV-29WX11/S, AV29WX11/U]

△Ref No.	Part No.	Part Name	Description Local
	R25-8173	BATTERY COVER	

REMOTE CONTROL UNIT PARTS LIST (RM-C1309-1H) [AV-2932W1/E]

△Ref No.	Part No.	Part Name	Description Local
	R25-8173	BATTERY COVER	

PACKING



PACKING PARTS LIST

△ Ref.No.	Part No.	Part Name	Description	Local
1	GG10044-071A-H	PACKING CASE		
2	GG10193-001D-H	CUSHION ASS'Y	8pcs in 1set	
3	GG20011-008A-H	SUPPORT PAD		
4	GG20011-009A-H	SUPPORT PAD	(x2)	
5	CP30967-004-H	POLY BAG		
6	LC30946-001A-H	CRT PROTECTOR		
7	LC30947-002A-H	CAUTION SHEET		
8	CP30966-001-H	POLY BAG		
9		BATTERY	AA/R6 (x2)	
△ 10	GGT0012-001C-H	INST BOOK		AV-29WX11/G,AV-29WX11/S,AV-29WX11/U
△ 10	GGT0013-001B-H	INST BOOK		AV-2932W1/E
△ 11	GGT0017-001B-H	DIGEST MANUAL		AV-29WX11/G,AV-29WX11/S,AV-29WX11/U
12	BT-54012-3H	WARRANTY CARD		AV-2932W1/E
△ 13	QAM0054-001	CONVERSION PLUG		AV-29WX11/U
14	RM-C1306-1H	REMOCON UNIT		AV-29WX11/G,AV-29WX11/S,AV-29WX11/U
14	RM-C1309-1H	REMOCON UNIT		AV-2932W1/E
15	GG20025-003A-H	CORNER LABEL	(x2)	
△ 16	CP30702-001	REC KEEPING CARD		AV-29WX11/U

JVC

SCHEMATIC DIAGRAMS

FLAT COLOUR TELEVISION

BASIC CHASSIS
CH3

AV-29WX11 /G

AV-29WX11 /S

AV-29WX11 /U

AV-2932W1 /E

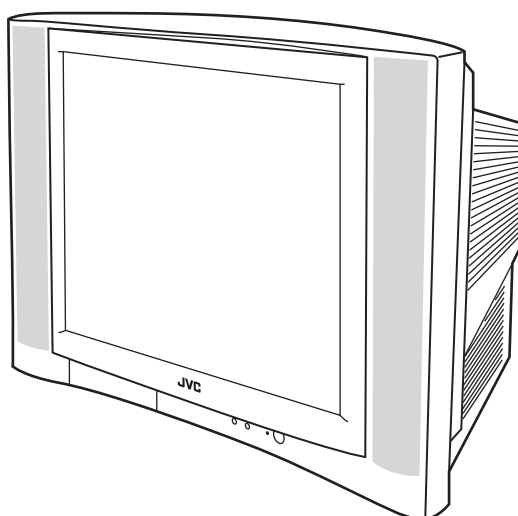
CD-ROM No. SML200310



RM-C1306-1H
[AV-29WX11/G]
[AV-29WX11/S]
[AV-29WX11/U]



RM-C1309-1H
[AV-2932W1/E]



AV-29WX11/G, AV-29WX11/S, AV-29WX11/U, AV-2932W1/E STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the Δ 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 : Uninflamable 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]

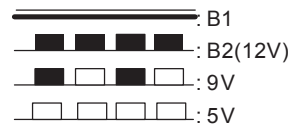
● Type

- No indication : Ceramic capacitor
- MY : Mylar capacitor
- MM : Metalized mylar capacitor
- FP : 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



*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.

NOTE

- ◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.
When ordering parts, please use the numbers that appear in the Parts List.

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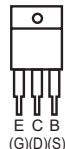
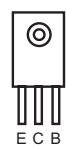

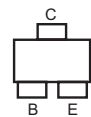
FRONT CONTROL PWB PATTERN2-16

VOLTAGE CHART2-17


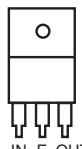
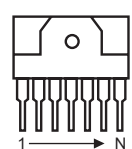
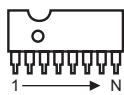
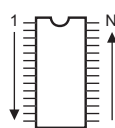
WAVEFORMS2-18

SEMICONDUCTOR SHAPES

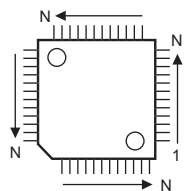
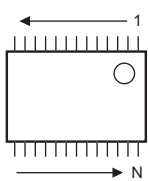
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					<p>CHIP TR</p> 

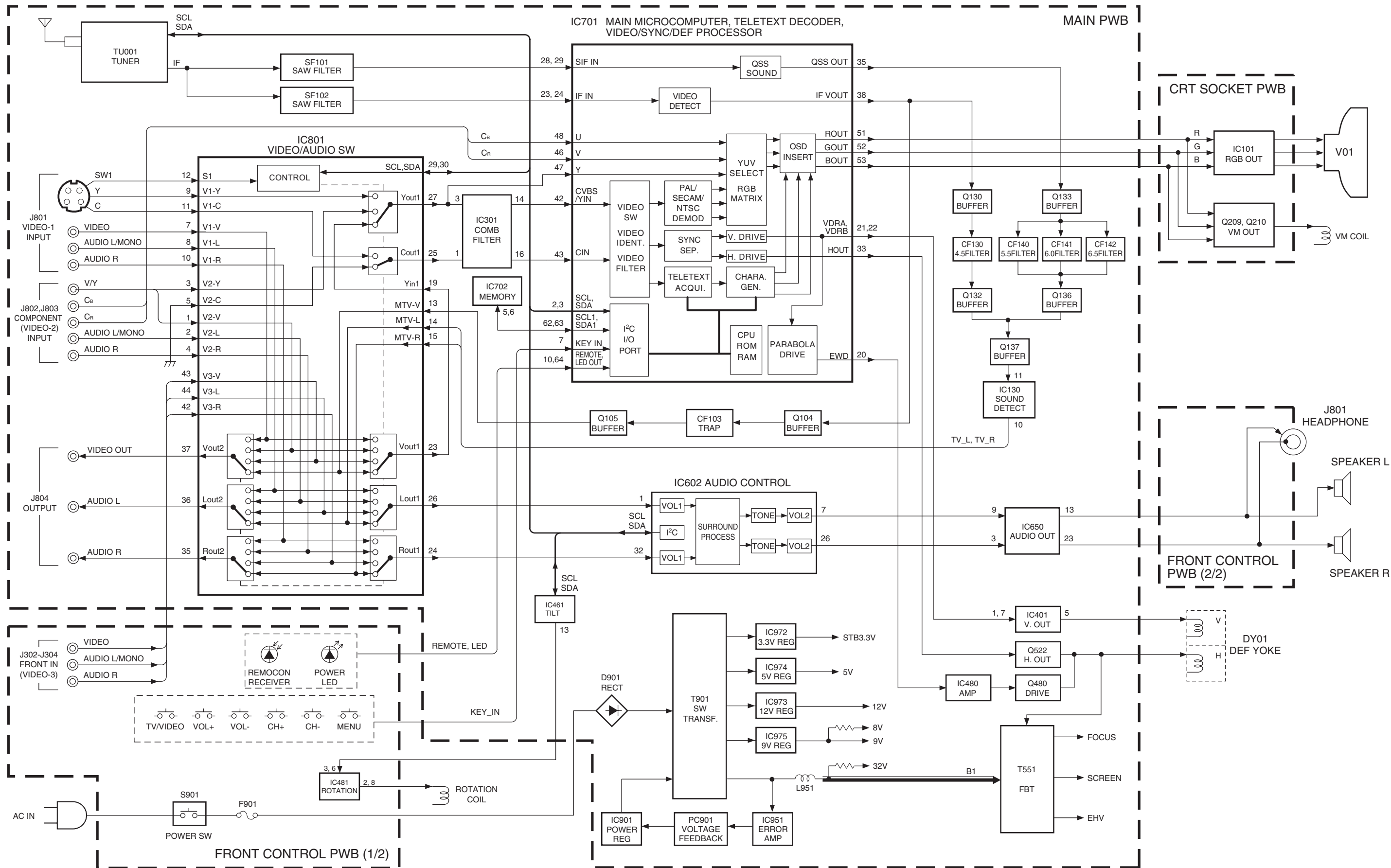
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

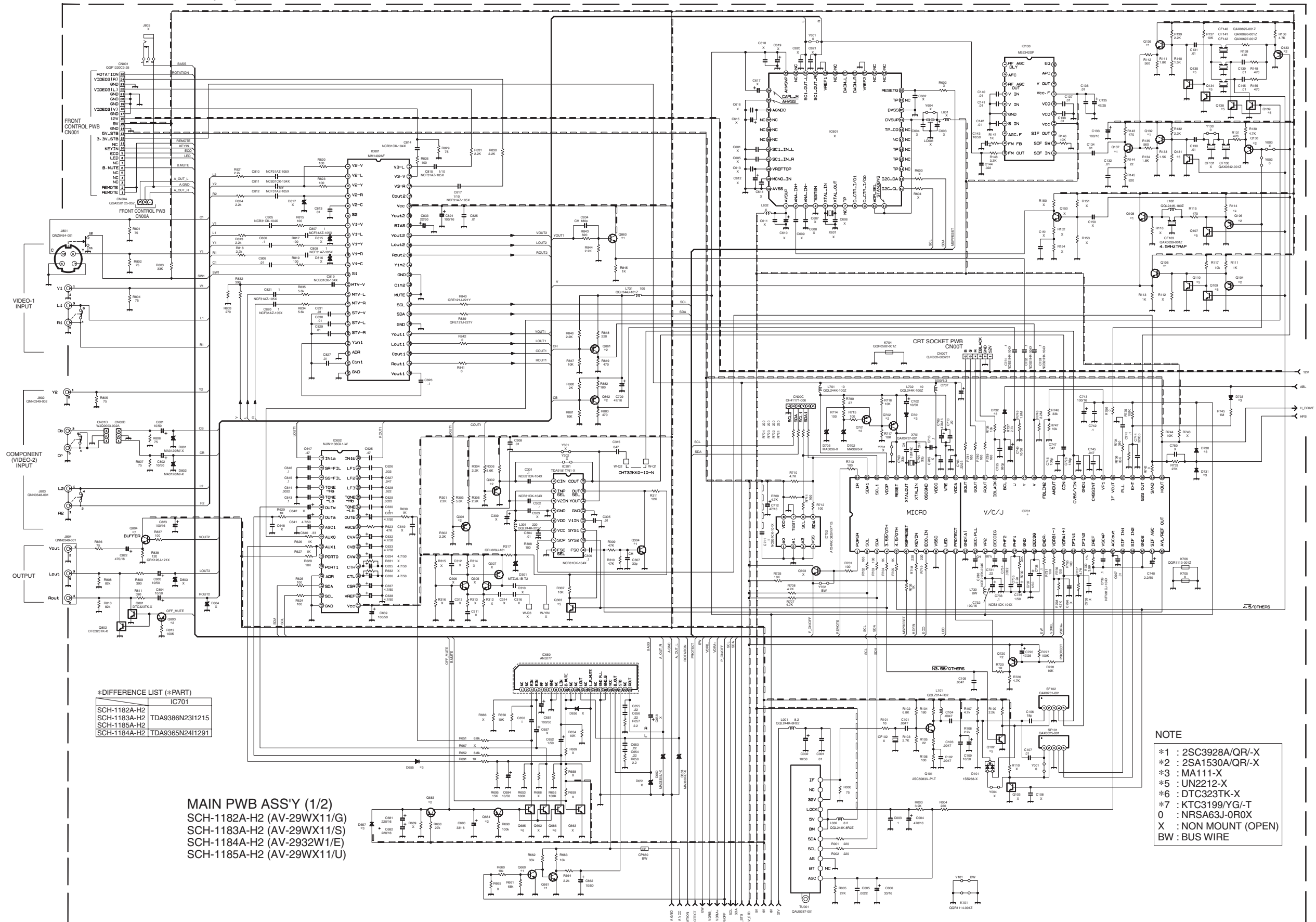
TOP VIEW		
		

BLOCK DIAGRAM



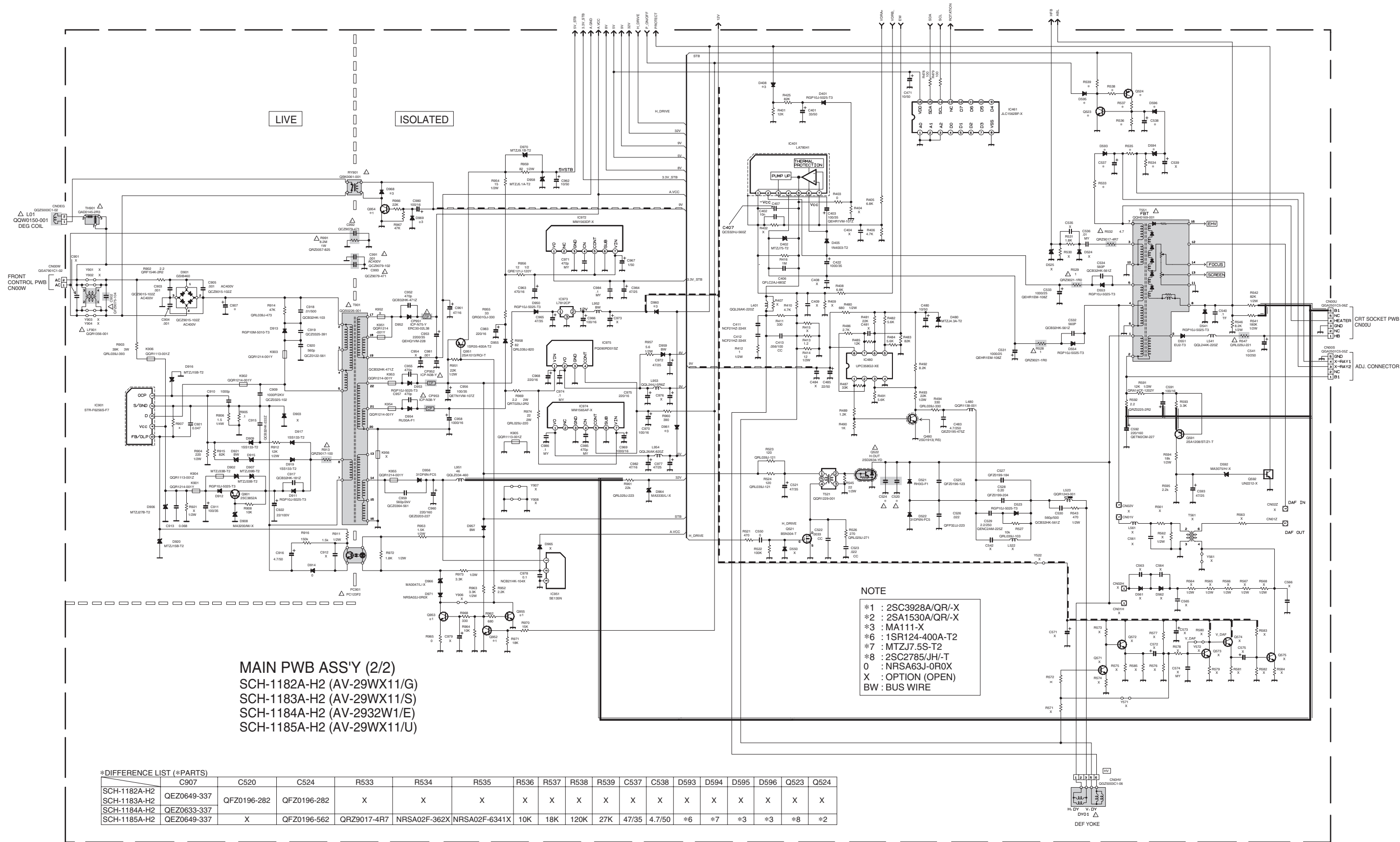
CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/2)



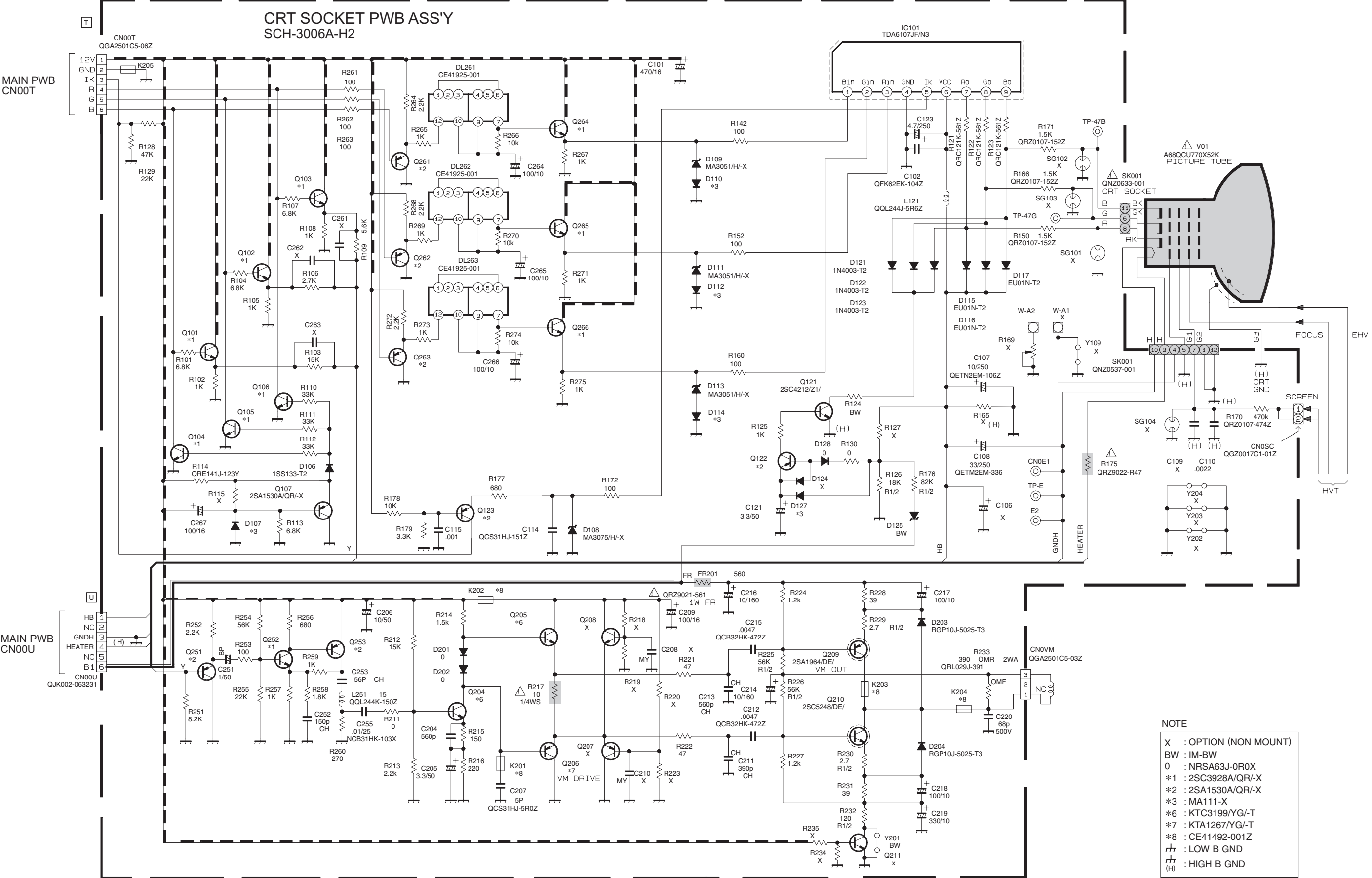
NOTES) 1. Please refer to page 2-17 for voltages of this circuit diagram.
2. Please refer to page 2-18 for waveforms of this circuit diagram.

MAIN PWB CIRCUIT DIAGRAM (2/2)

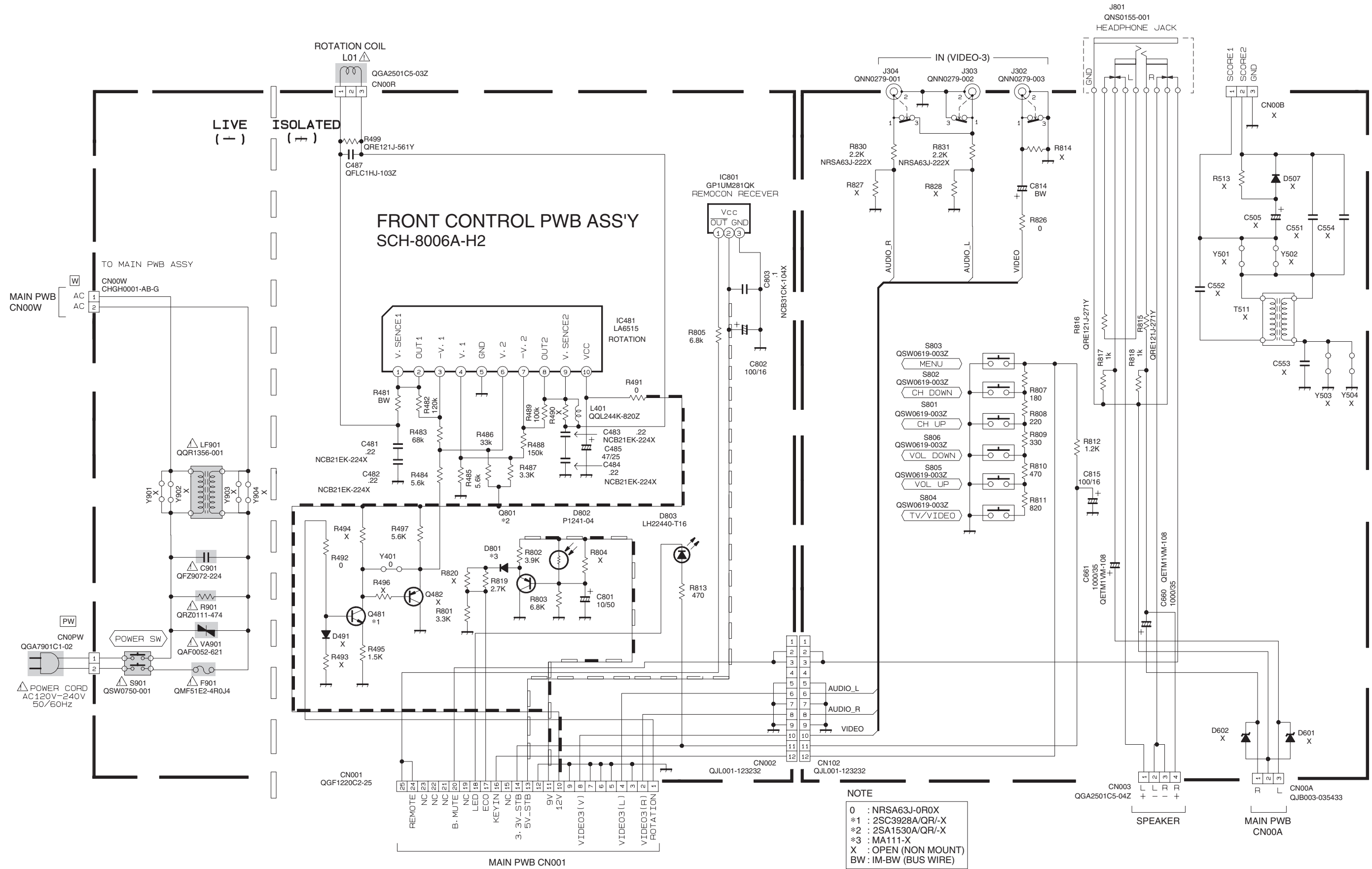


NOTES) 1. Please refer to page 2-17 for voltages of this circuit diagram.
2. Please refer to page 2-18 for waveforms of this circuit diagram.

CRT SOCKET PWB CIRCUIT DIAGRAM

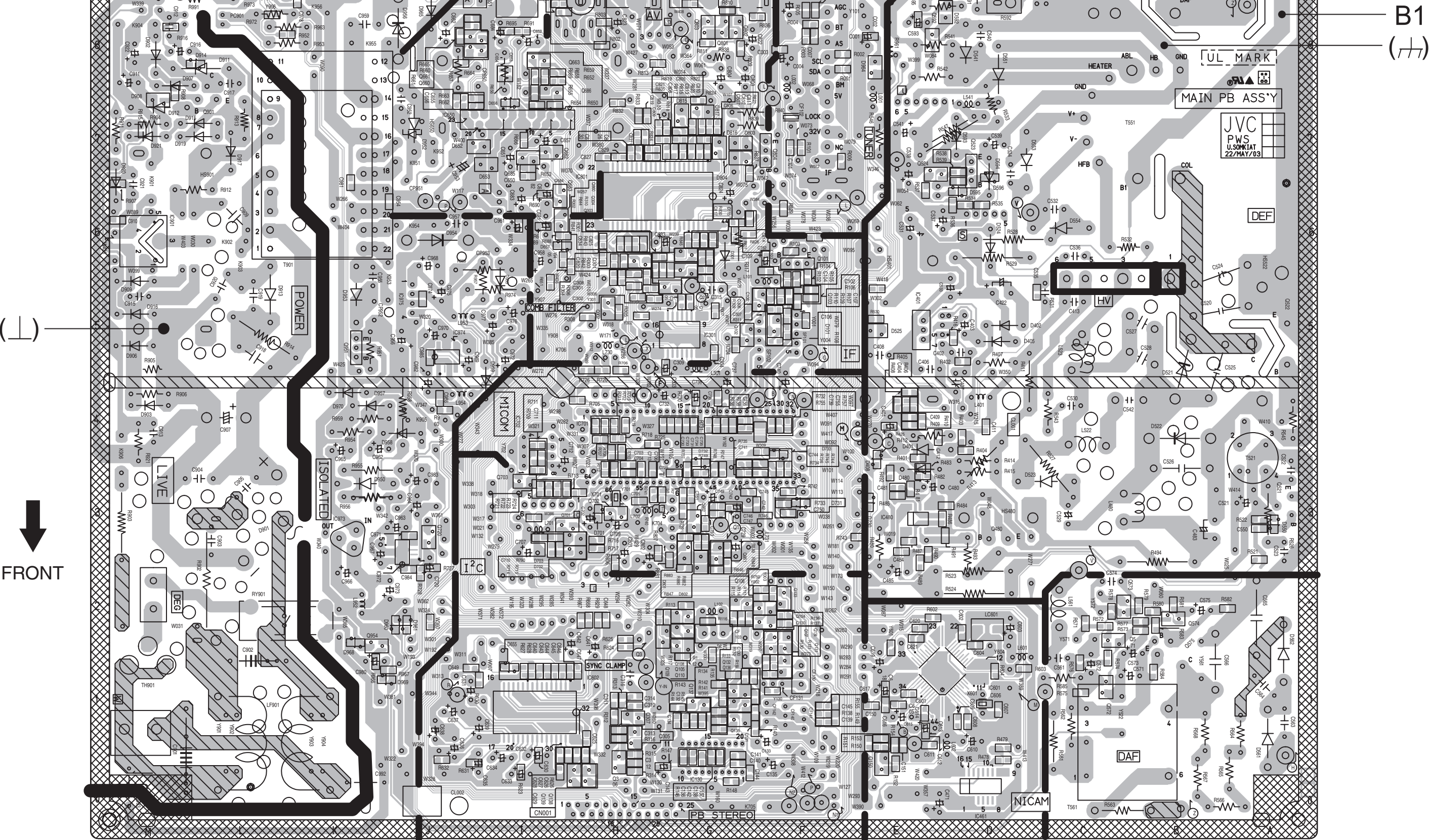


FRONT CONTROL PWB CIRCUIT DIAGRAM



NOTE) Please refer to page 2-17 for voltages of this circuit diagram.

PATTERN DIAGRAM
MAIN PWB PATTERN



CKE1733-CH2-1

CONNECT THE WIRE FROM CRT GND TO CRT GND TIP.

CRT SOCKET

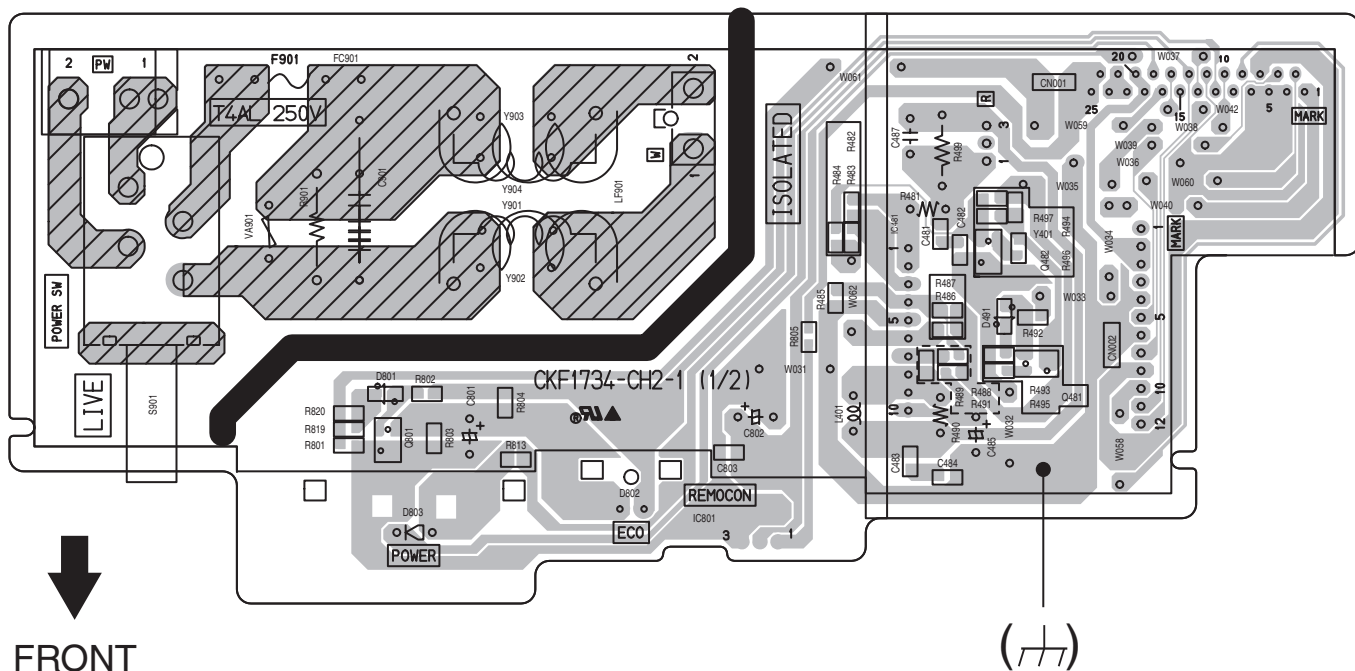
JVC PWS 0.5A/ANALOG 01 JUL '95

MARK

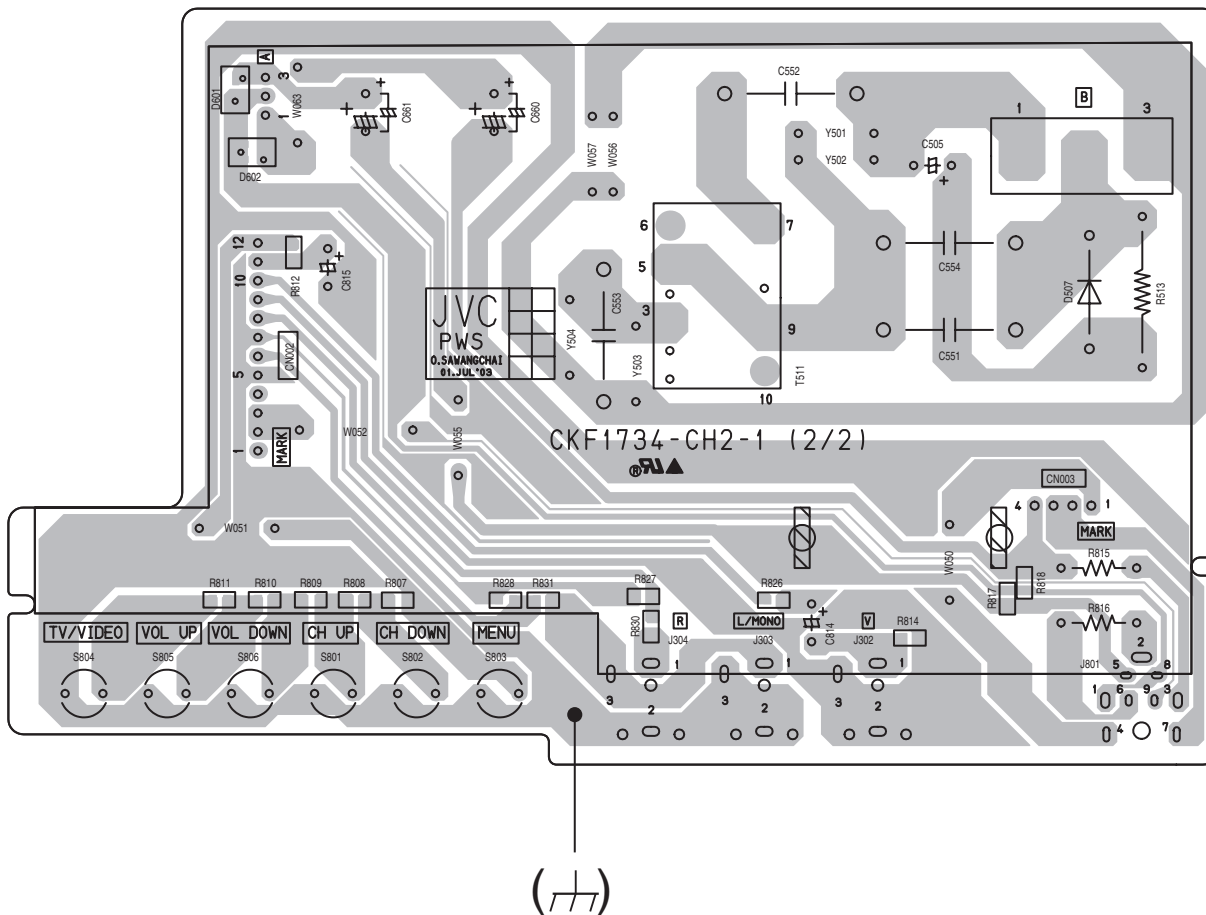

$$\left(\begin{array}{c} | \\ \hline // \end{array} \right)$$

FRONT CONTROL PWB PATTERNS

-FRONT CONTROL (1/2)-



-FRONT CONTROL (2/2)-



VOLTAGE CHART

Note : • Mark * expresses the portion into which a voltage value is changed.

<MAIN PWB>

PIN NO.	VOLTAGE(V)
IC1130	
1	0.5
2	0.3
3	0.3
4	1.4
5	1.4
6	0.0
7	2.4
8	4.4
9	1.9
10	2.3
11	2.2
12	0.0
13	2.3
14	4.9
15	4.3
16	3.6
17	5.0
18	3.5
19	3.4
20	2.4
IC1301	
1	0.9
2	0.0
3	1.6
4	0.0
5	4.9
6	5.0
7	0.4
8	0.0
9	0.6
10	3.0
11	0.0
12	1.5
13	0.0
14	1.7
15	0.0
16	1.5
IC1461	
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	2.2
14	3.0
15	3.0
16	5.0
IC1401	
1	0.5
2	13.5
3	-10.9
4	-13.2
5	0.1
6	13.4
7	0.5
IC1480	
1	1.9
2	3.2
3	3.2
4	0.0
5	2.1
6	2.1
7	3.3
8	8.8
IC1602	
1	4.4
2	4.4
3	4.4
4	4.4
5	4.4
6	4.4
7	4.4
8	1.5
9	4.9
10	0.0
11	0.3
12	0.3
13	0.0
14	3.0
15	3.0
16	0.0
17	8.8
18	4.4
19	0.5
20	3.7
21	3.7
22	0.7

PIN NO.	VOLTAGE(V)
23	2.6
24	2.6
25	0.1
26	4.4
27	4.4
28	4.4
29	5.2
30	5.2
31	4.4
32	4.4
IC1650	
1	0.0
2	0.0
3	0.0
4	0.0
5	25.6
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	12.8
14	0.0
15	0.9
16	0.0
17	0.0
18	0.0
19	26.8
20	0.0
21	16.9
22	0.0
23	12.8
IC1701	
1	3.3
2	2.9
3	3.0
4	3.3
5	3.3
6	5.1
7	3.3
8	2.7
9	0.0
10	0.0
11	0.0
12	0.0
13	2.3
14	8.0
15	5.0
16	2.9
17	3.9
18	0.0
19	4.0
20	2.1
21	1.3
22	1.4
23	1.8
24	1.8
25	3.8
26	3.8
27	3.4
28	1.8
29	1.8
30	0.0
31	2.1
32	2.4
33	1.5
34	0.5
35	2.5
36	2.0
37	2.3
38	3.1
39	8.1
40	3.3
41	0.0
42	3.7
43	1.5
44	3.4
45	1.8
46	2.5
47	2.5
48	2.5
49	2.2
50	4.4
51	2.5
52	2.4
53	2.2
54	3.3
55	0.0
56	3.3
57	0.0
58	1.6
59	1.6
60	0.0

PIN NO.	VOLTAGE(V)
61	3.3
62	4.5
63	4.7
64	5.1
IC1702	
1	0.0
2	0.0
3	0.0
4	0.0
5	4.6
6	4.5
7	0.0
8	5.1
IC1801	
1	4.8
2	4.2
3	4.8
4	4.2
5	4.7
6	0.0
7	5.2
8	4.2
9	4.6
10	4.2
11	4.7
12	6.9
13	5.1
14	4.2
15	4.2
16	4.7
17	4.2
18	4.2
19	5.5
20	0.0
21	4.7
22	0.0
23	4.8
24	4.1
25	3.3
26	4.1
27	3.9
28	0.0
29	3.1
30	3.0
31	0.0
32	4.7
33	0.0
34	4.4
35	4.1
36	4.0
37	4.8
38	4.2
39	3.4
40	8.7
41	3.4
42	4.2
43	4.8
44	4.2
IC1901	
1	3.0
2	0.0
3	297.3
4	19.4
5	0.6
IC1951	
1	135.1
2	24.1
3	0.0
IC1972	
1	3.3
2	0.0
3	0.0
4	1.9
5	7.6
6	0.0
7	7.6
IC1973	
1	24.9
2	11.8
3	0.0
IC1974	
1	5.0
2	0.0
3	0.0
4	3.4
5	3.2
6	0.0
7	7.3
IC1975	
1	10.2
2	8.9
3	0.0
4	3.2

PIN NO.	VOLTAGE(V)
TU1001	
1(IF)	0.0
2(NC)	0.0
3(32V)	34.2
4(LOCK)	0.0
5(5V)	4.9
6(BM)	4.9
7(SDA)	3.0
8(SCL)	3.0
9(AS)	0.0
10(BT)	3.5
11(AGC)	3.5
Q1101	
E	3.3
C	0.0
B	3.4
Q1102	
E	0.0
C	0.0
B	3.0
Q1103	
E	0.0
C	2.8
B	0.0
Q1104	
E	3.7
C	0.0
B	3.1
Q1105	
E	3.1
C	8.8
B	3.7
Q1106	
E	0.0
C	0.0
B	3.1
Q1107	
E	0.0
C	0.0
B	2.9
Q1108	
E	3.1
C	8.8
B	0.0
Q1109	
E	2.8
C	0.0
B	0.0
Q1110	
E	0.0
C	3.7
B	0.0
Q1130	
E	0.0
C	0.0
B	3.0
Q1131	
E	0.0
C	0.0
B	2.8
Q1132	
E	2.9
C	8.8
B	3.6
Q1133	
E	3.1
C	0.0
B	2.5
Q1134	
E	0.0
C	0.0
B	2.9
Q1135	
E	0.0
C	3.5
B	0.0
Q1136	
E	2.9
C	8.8
B	3.5
Q1137	
E	2.3
C	7.5
B	2.9
Q1138	
E	0.0
C	0.0
B	4.5
Q1139	
E	0.0
C	0.0
B	4.5

PIN NO.	VOLTAGE(V)
Q1301	
E	2.6
C	0.0
B	2.0
Q1302	
E	2.2
C	0.0
B	1.7
Q1303	
E	0.0
C	0.0
B	3.0
Q1304	
E	0.0
C	0.0
B	0.6
Q1480	
E	0.6
C	12.9
B	0.0
Q1521	
S	0.0
G	24.4
D	1.5
Q1522	
E	0.0
C	131
B	-0.1
Q1591	
E	135.0
C	0.0
B	134.7
Q1592	
E	0.0
C	5.1
B	0.0
Q1660	
E	0.0
C	18.7
B	0.0
Q1661	
E	0.0
C	0.0
B	0.6
Q1683	
E	8.8
C	0.2
B	8.8
Q1684	
E	0.2
C	-0.2
B	0.0
Q1685	
E	0.0
C	0.0
B	-0.2
Q1701	
E	3.0
C	3.0
B	2.3
Q1702	
E	3.3
C	0.0
B	2.9
Q1720	
E	5.1
C	0.0
B	5.1
Q1801	
E	0.0
C	0.0
B	-0.2
Q1802	
E	0.0
C	0.0
B	-0.2
Q1803	
E	0.2
C	-0.2
B	0.0
Q1804	
E	4.1
C	8.8
B	4.8
Q1860	
E	2.3
C	8.7
B	2.8

PIN NO.	VOLTAGE(V)
Q1861	
E	7.3
C	1.7
B	6.6
Q1862	
E	7.3
C	1.8
B	6.7
Q1901	
E	20.1
C	65.1
B	20.5
Q1951	
E	30.0
C	7.8
B	29.9
Q1952	
E	0.0
C	0.0
B	0.6
Q1953	
E	0.0
C	25.7
B	0.0
Q1954	
E	0.0
C	8.8
B	0.0
Q1955	
E	0.0
C	29.9
B	0.0

<CRT SOCKET PWB>

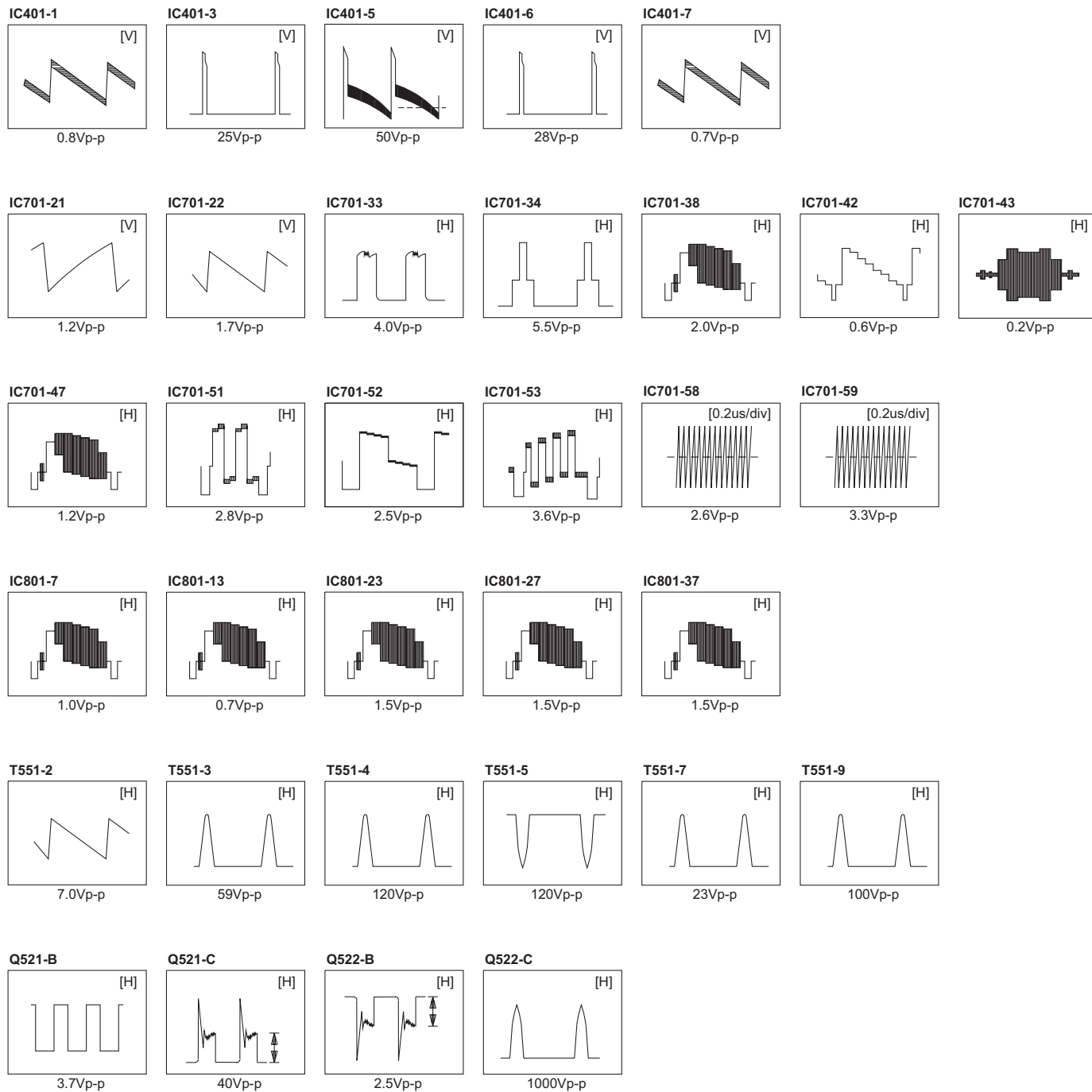
PIN NO.	VOLTAGE(V)
IC3101	
1	2.4
2	2.4
3	2.5
4	0.0
5	5.6
6	214.6
7	128.3
8	130.5
9	134.5
Q3101	
E	1.7
C	11.8
B	2.3
Q3102	
E	1.8
C	11.9
B	2.4
Q3103	
E	1.8
C	11.8
B	2.4
Q3104	
E	0.0
C	2.3
B	0.0
Q3105	
E	0.0
C	2.3
B	0.0
Q3106	
E	0.0
C	2.5
B	0.0
Q3121	
E	0.0
C	181.8
B	-0.6
Q3122	
E	23.8
C	-0.7
B	24.1
Q3123	
E	5.0
C	5.0
B	4.5
Q3204	
E	0.9
C	7.8
B	1.5
Q3205	
E	7.8
C	11.8
B	7.8
Q3206	
E	7.8
C	0.0
B	7.8
Q3209	
E	124.2
C	64.3
B	123.6
Q3210	
E	2.8
C	64.3
B	3.3
Q3251	
E	2.1
C	0.0
B	1.5
Q3252	
E	2.6
C	11.2
B	3.2
Q3253	
E	11.8
C	4.3
B	11.2
Q3261	
E	3.0
C	0.0
B	2.3
Q3262	
E	3.1
C	0.0
B	2.4
Q3264	
E	2.3
C	11.8
B	3.0

<FRONT PWB>

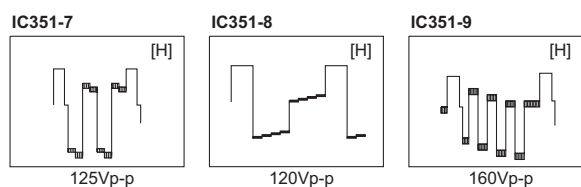
PIN NO.	VOLTAGE(V)
IC8481	
1	7.6
2	7.6
3	7.5
4	7.5
5	0.0
6	7.4
7	7.4
8	7.4
9	7.4
10	11.8
IC8801	
1	4.9
2	5.1
3	0.0
Q8481	
E	1.6
C	6.7
B	2.1
Q8801	
E	5.5
C	7.0
B	0.0

WAVEFORMS

-MAIN PWB-



-CRT SOCKET PWB-





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