

# JVC

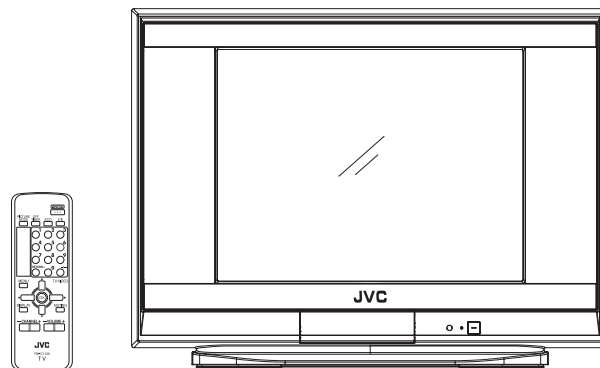
## SERVICE MANUAL

COLOUR TELEVISION

**AV-2100QE, AV-21Q17,  
AV-21Q17<sub>/L</sub>, AV-21QMG7<sub>/G</sub>,  
AV-21QMG7<sub>/S</sub>, AV-21QMG7B<sub>/G</sub>**

BASIC CHASSIS

CQ



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## SPECIFICATION

Items		Contents		
		AV-21QMG7/G, AV-21QMG7/S, AV-21QMG7B/G	AV-21Q17	AV-2100QE, AV-21Q17/L
Dimensions (W × H × D)		64.9cm × 48.7 cm × 35.1 cm		
Mass		21 kg		
TV RF System		B/G, I, D/K, M	B/G, I, D/K	
Colour System	TV Mode	PAL, SECAM, NTSC 3.58 / NTSC 4.43	PAL, SECAM	
	Video Mode	PAL, SECAM, NTSC 3.58 / NTSC 4.43		
Receiving Frequency	VHF Low VHF High UHF CATV	46.25 MHz to 140.25 MHz 147.25 MHz to 423.25 MHz 431.25 MHz to 863.25 MHz Mid (X to Z+2, S1 to S10) / Super (S11 to S20) / Hyper (S21 to S41) bands		
Intermediate Frequency	VIF	38.0 MHz (B/G, I, D/K, M)		
	SIF	32.5 MHz (5.5 MHz: B/G) 32MHz (6.0 MHz: I) 31.5MHz (6.5 MHz: D/K) 33.5MHz (4.5 MHz: M)		
Colour Sub Carrier	PAL SECAM NTSC	4.43 MHz 4.40625 MHz / 4.25 MHz 3.58 MHz / 4.43 MHz		
Power Input	AC110 V to AC240 V, 50 Hz / 60Hz		AC160 V to AC240 V, 50 Hz / 60Hz	
Power Consumption	88 W (Max) / 99 W(Avg)			
Picture Tube	Visible size: 52 cm measured diagonally ( H : 41.6 cm × V : 31.5 cm)			
High Voltage	24.5 kV±1.5 kV (at zero beam current)			
Speaker	6.5cm × 13cm , Oval type × 2			
Audio Power Output	3 W (monaural)			
Aerial Input Terminal	75 Ω unbalanced, coaxial			
Input Terminal [Front / Rear]	Video	1 V(p-p), 75 Ω, negative sync, RCA pin jack × 2		
	Audio	500 mV(rms) (-4 dBs), High impedance, RCA pin jack × 2		
Output Terminal [Rear]	Video	1 V(p-p), 75Ω, RCA pin jack × 1		
	Audio	500 mV(rms) (-4 dBs), Low impedance, RCA pin jack × 1		
Headphone Jack	3.5 mm mini jack × 1			
Remote Control Unit	RM-C1150 (Battery size : AA / R6 / UM-3 × 2)			

Design and 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 (  $\Delta$  ) 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 : (  $\perp$  ) side GND, the ISOLATED (NEUTRAL) : (  $\frac{\perp}{\text{---}}$  ) side GND and EARTH : (  $\oplus$  ) 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 10k $\Omega$  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.

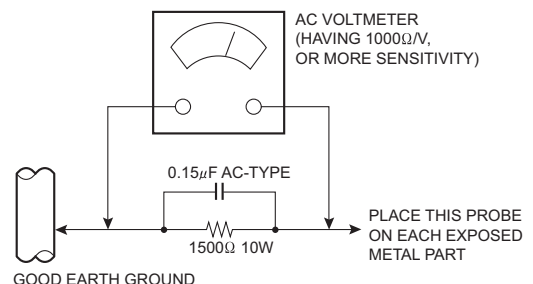
### b) Leakage Current Check

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 $\Omega$  per volt or more sensitivity in the following manner. Connect a 1500 $\Omega$  10W resistor paralleled by a 0.15 $\mu$ F 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

##### PICTURE MODE

This function can adjust the picture settings automatically.  
There are USER, VIVID and SOFT in the PICTURE MODE.

##### CHILD LOCK

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

##### RETURN +

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

##### VNR

This function can reduce the picture noise.

#### 2.2 MAIN DIFFERENCE LIST

Item	AV-2100QE	AV-21Q17	AV-21Q17/L	AV-21QMG7/G	AV-21QMG7/S	AV-21QMG7B/G
Language	Eng, Rus, Ukr	Eng, Chi, Rus, Mal, Ind	←	Eng, Ara, Per, Fre, Rus	←	←
Power voltage	AC160-240V	AC110-240V	AC160-240V	AC110-240V	←	←
Cabinet colour	Silver	←	←	←	←	Black
Main PWB	SCQ-1403A-H2	SCQ-1402A-H2	SCQ-1407A-H2	SCQ-1401A-H2	SCQ-1408A-H2	SCQ-1401A-H2

#### 2.3 TECHNICAL INFORMATION

##### 2.3.1 MAIN MI-COM (CPU) PIN FUNCTION

Pin No.	Pin name	I/O	Function	Pin No.	Pin name	I/O	Function
1	NC	-	Not used	33	SIF-IN	I	SIF signal
2	NC	-	Not used	34	DC NF	-	Not used
3	KEY	I	Key scan for front key	35	PIF PLL	-	Not used
4	GND	-	GND for Power supply	36	IF-VCC(5V)	I	Vcc (5V supply) IF circuit
5	RESET	I	Reset	37	S-Reg	-	Not used
6	X-TAL	O	System clock oscillation	38	AUD MON 1	O	Audio signal for output terminal
7	X-TAL	I	System clock oscillation	39	IF AGC	-	Not used
8	TEST	-	Not used	40	IF GND	-	GND for IF circuit
9	5V	I	Vdd (5V supply)	41	SAW	I	IF signal
10	GND	-	GND for Slice circuit	42	SAW	I	IF signal
11	GND	-	GND for Def block	43	RE AGC	O	RF AGC control level
12	FBP	I	FBP	44	BLACK DET	-	Not used
13	H-OUT	O	Horizontal driving pulse	45	MONITOR-OUT	O	Video signal for output terminal
14	H-AFC	I	Connected capacitor for H. AFC filter	46	APC FIL	-	Not used
15	V-SAM	-	Not used	47	5V	I	Vcc (5V supply) Y/C circuit
16	V-OUT	O	Vertical driving pulse	48	SYNC-OUT	-	Not used
17	A_VCC 8V	I	Vcc (8V supply) Def,RGB,Audio out and PIF	49	VCC 3.3V	-	Vcc for Digital block
18	GND	-	GND for TV block	50	R-OUT	O	Red signal
19	Cb	-	Not used	51	G-OUT	O	Green signal
20	Y-IN	-	Not used	52	B-OUT	O	Blue signal
21	Cr	-	Not used	53	GND	-	GND for digital block
22	EXT AUDIO 1	I	Audio signal 1	54	GND	-	GND for Oscillation circuit
23	V3	I	Video signal	55	5V	-	Vdd (5V supply) for Oscillation circuit
24	V2	I	Video signal	56	POWER ON/OFF	O	Main power control (Hi:Power ON Low:Off)
25	ALC FILTER	-	Not used	57	SADA 1	I/O	I <sup>2</sup> C bus serial data In/Out
26	TV-INC(Vp-p)	I	Video signal (input level = 1Vp-p)	58	SCL 1	I	I <sup>2</sup> C bus serial clock
27	ABCL-IN	I	ABL control	59	PROTECT	I	B1 voltage detection (Hi:OK Low:NG)
28	AUDIO-OUT1	O	Audio signal	60	3.58/OTH	O	NTSC 3.58 detection (Hi:Detect)
29	AUDIO-OUT2	-	Not used	61	A-MUTE	I	Audio muting (Hi:Mute)
30	TV-OUT	O	Video (Detected PIF signal)	62	NC	-	Not used
31	SIF-OUT/AUD MON OUT 2	O	Audio (Detected SIF signal)	63	REMOT	I	Remote control
32	EXT AUDIO 2	I	Audio signal 2	64	POWER LED	O	Lighting for power LED (Hi:Off Low:ON)

## **SECTION 3 DISASSEMBLY**

### **3.1 DISASSEMBLY PROCEDURE**

#### **3.1.1 REMOVING THE REAR COVER**

- Unplug the power cord.
  - (1) Remove the 9 screws **[A]** and 1 screw **[B]** 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 MAIN PW BOARD**

- Remove the REAR COVER.
  - (1) Slightly raise the both sides of the MAIN PWB by hand.
  - (2) Withdraw the MAIN PWB backward.  
(If necessary, take off the wire clamp and connectors, etc.)

#### **3.1.3 REMOVING THE SPEAKER**

- Remove the REAR COVER.
  - (1) Remove the 2 screws **[C]**.
  - (2) Withdraw the SPEAKER toward you.
  - (3) Follow the same steps when removing the other hand SPEAKER.

#### **3.1.4 REMOVING THE CHOKE COIL**

- Remove the REAR COVER.
  - (1) Remove the 2 screws **[D]**.
  - (2) Withdraw the CHOKE COIL.

#### **3.1.5 CHECKING THE MAIN PW BOARD**

- To check the solder side of the MAIN PWB.
  - (1) Pull out the MAIN PWB. (Refer to REMOVING THE MAIN PW BOARD).
  - (2) The MAIN PW BOARD turns the front side down and erect it so that you can easily check its solder side.

#### **CAUTIONS:**

- 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.

#### **3.1.6 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.

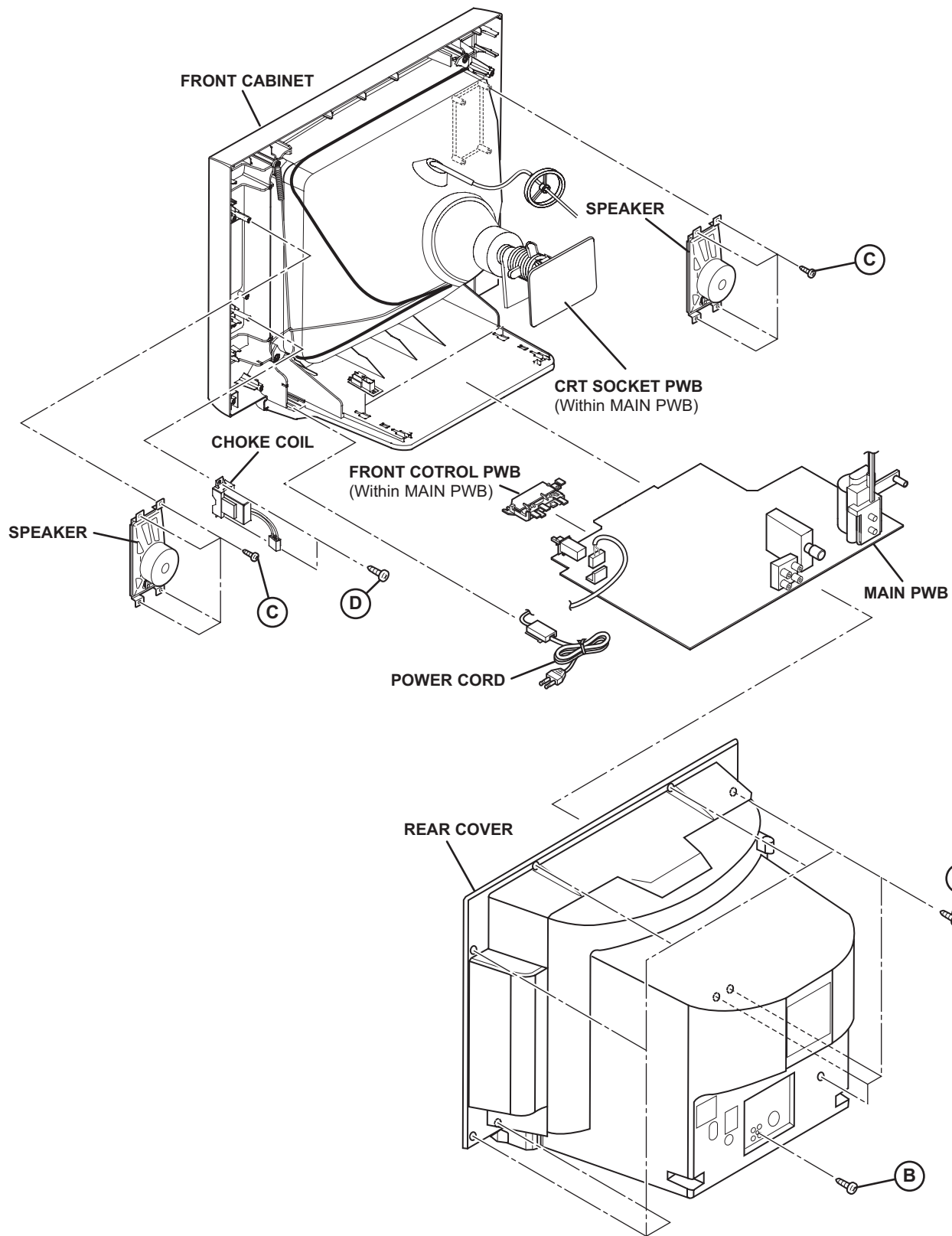


Fig.1

### 3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

#### 3.2.1 MEMORY IC REPLACEMENT PROCEDURE

##### 1. Power off

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

##### 2. Replace the memory IC

Be sure to use the memory IC written with the initial setting values.

##### 3. Power on

Connect the power plug to the AC outlet and switch on the power.

##### 4. System constant check and setting

- It must not adjust without adjustment signals.
  - (1) Press the **[DISPLAY]** key and the **[PICTURE MODE]** key of the REMOTE CONTROL UNIT simultaneously.
  - (2) The SERVICE MENU screen of Fig. 1 will be displayed.
  - (3) While the SERVICE MENU is displayed, again press the **[DISPLAY]** key and the **[PICTURE MODE]** key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed.
  - (4) Check the setting values of the SYSTEM CONSTANT SETTING. If the value is different, select the setting item with the **[MENU ▲/▼]** key, and set the correct value with the **[MENU - / +]** key.
  - (5) Press the **[DISPLAY]** key twice, and return to the normal screen.

##### 5. Receiving channel setting

Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

##### 6. User settings

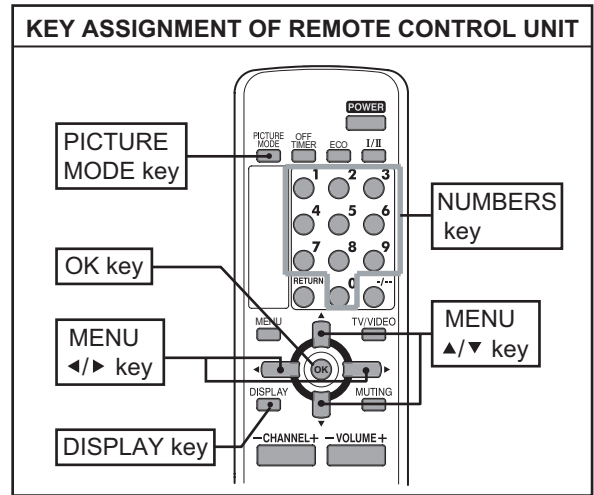
Check the user setting items according to the given in page later.

Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

##### 7. SERVICE MENU setting

Verify what to set in the SERVICE MENU, and set whatever is necessary (Fig.1).

Refer to the SERVICE ADJUSTMENT for setting.



SERVICE MENU	
1.IF	2.V/C
3.DEF	4.VSM W/B
5.PRESET	
6.PLUG & PLAY (OFF)	
7.HOTEL MODE (OFF)	
1-7 : SELECT	DISP : EXIT

Fig.1

SYSTEM CONSTANT	
SYSTEM CONSTANT	
SYSTEM	: TRIPLE
LANGUAGE	: E/R/U
BLUE BACK MUTE	: NO
COLOR AUTO	: NO
BILINGUAL	: NO
EXT BPF	: OFF
PICTURE BOOSTER	: NO
▼/▲	: SELECT
</>	: OPERATE    DISP : EXIT

Fig.2

### 3.2.2 SETTINGS OF FACTORY SHIPMENT

#### 3.2.2.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	PR1
VOLUME	15

#### 3.2.2.2 REMOTE CONTROL DIRECT OPERATION

Setting item	Setting position
CHANNEL	PR1
VOLUME	15
TV/VIDEO	TV
PICTURE MODE	VIVID

### 3.2.2.3 REMOTE CONTROL MENU OPERATION

#### (1) MENU-1

Setting item	Setting position
PICTURE SETTING	CENTRE
WHITE BALANCE	COOL
ECO MODE	OFF
ON TIMER	PR1 0:00
OFF TIMER	OFF

#### (2) MENU-2

Setting item	Setting position
AI VOLUME	OFF
CHILD LOCK	OFF
BLUE BACK	ON
VNR	AUTO

#### (3) MENU-3

Setting item	Setting position
LANGUAGE	ENGLISH
COLOUR SYSTEM	PAL
SOUND SYSTEM	B/G

### 3.2.3 SYSTEM CONSTANT SETTING

Setting item	Setting value					
	AV-2100QE	AV-21Q17/L	AV-21Q17	AV-21QMG7/G	AV-21QMG7B/G	AV-21QMG7/S
SYSTEM	TRIPLE	←	←	MULTI	←	←
LANGUAGE	Eng,Rus,Ukr	Eng,Chi,Rus,Mal,Ind	←	Eng,Ara,Per,Fre,Rus	←	←
BLUE BACK MUTE	NO	←	←	←	←	YES
COLOUR AUTO	NO	←	←	YES	←	←
BILINGUAL	NO	←	←	←	←	←
EXT BPF	OFF	B/G	←	←	←	←
PICTURE BOOSTER	NO	←	←	←	←	←



### 3.2.4 SERVICE MENU SETTING ITEMS

Setting item	Setting value	Setting item	Setting value	
1. IF	1.VCO 2.DELAY POINT	4. VSM/WB	CONT. BRIGHT SHARP COLOUR TINT WDR G WDR B	
2. V/C	1.CUTOFF (R/B/G) 2.WRD (G/B) 3.BRIGHT (TV/VDO 1,2) 4.CONT. (TV/VDO 1,2) 5.COLOUR (TV/VDO 1,2) 6.TINT (TV/VDO 1,2) 7.SHARP (TV/VDO 1,2) 8.Y DELAY (TV/VDO 1,2) 9.VNR STATUS(AUTO)			
3. DEFLECTION	1.VER POS 2.VER SIZE 3.VER LIN 4.HOR POS 5.HOR BOW 6.HOR PARA 7.VER BLK 8.VER CENT 9.V.S-CR	10.HOR SIZE 11.EW PIN 12.TRAPEZ 13.COR-UP 14.COR-LO 15.HOR EHT 16.VER EHT	5. PRESET <b>[Do not adjust]</b>	1.OVER MOD 2. N BUZZ 3.S TARP A 4. S TRAP F0 5.STRAP Q 6.SHARP GD 7.S. TRAP HP/LP 8.AF AMP SPEED 9.PIF FREQ 10.AU MON 11.ALC

### 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

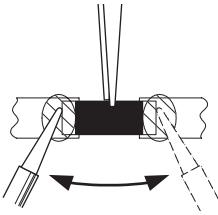
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

#### 3.3.3 REPLACEMENT STEPS

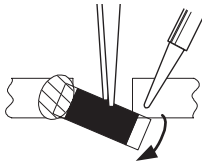
##### 1. How to remove Chip parts

###### [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 the tweezers and remove the chip part.

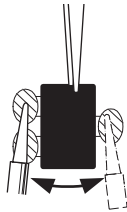


###### [Transistors, diodes, variable resistors, etc.]

- (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.



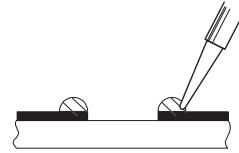
#### NOTE :

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

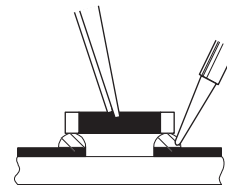
##### 2. How to install Chip parts

###### [Resistors, capacitors, etc.]

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

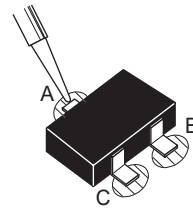


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

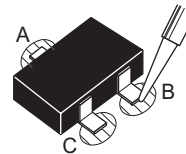


###### [Transistors, diodes, variable resistors, etc.]

- (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) There are 2 ways of adjusting this TV : One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.
- (2) The adjustment 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.
- (3) Make sure that connection is correctly made AC to AC power source.
- (4) Turn on the power of the TV and measuring instruments for warming up for at least 30 minutes before starting adjustments.
- (5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- (6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

## 4.2 PRESET SETTING BEFORE ADJUSTMENT

Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

Item	Preset value
PICTURE MODE	VIVID
PICTURE SETTING FOR USER MODE	Centre
VNR	OFF
BLUE BACK	OFF
OFF TIMER	OFF

## 4.3 MEASURING INSTRUMENT AND FIXTURES

- (1) DC voltmeter (or digital voltmeter)
- (2) Oscilloscope
- (3) Signal generator  
(Pattern generator : PAL / SECAM / NTSC)
- (4) Remote control unit
- (5) High voltmeter (with 100MΩ input impedance)

## 4.4 ADJUSTMENT ITEMS

### ■ CHECK ITEM

- B1 VOLTAGE check
- HIGH VOLTAGE check

### ■ TUNER / IF CIRCUIT

- IF VCO adjustment
- DELAY POINT adjustment

### ■ FOCUS

- FOCUS adjustment

### ■ DEFLECTION CIRCUIT

- V.POSITION adjustment
- V.SIZE adjustment
- V.LINEARITY adjustment
- V.S-CURVE adjustment
- H.POSITION adjustment
- H.BOW adjustment
- H.PARALLEL adjustment
- H. SIZE adjustment
- SIDE PIN adjustment
- TRAPEZIUM adjustment
- CORNER PIN adjustment

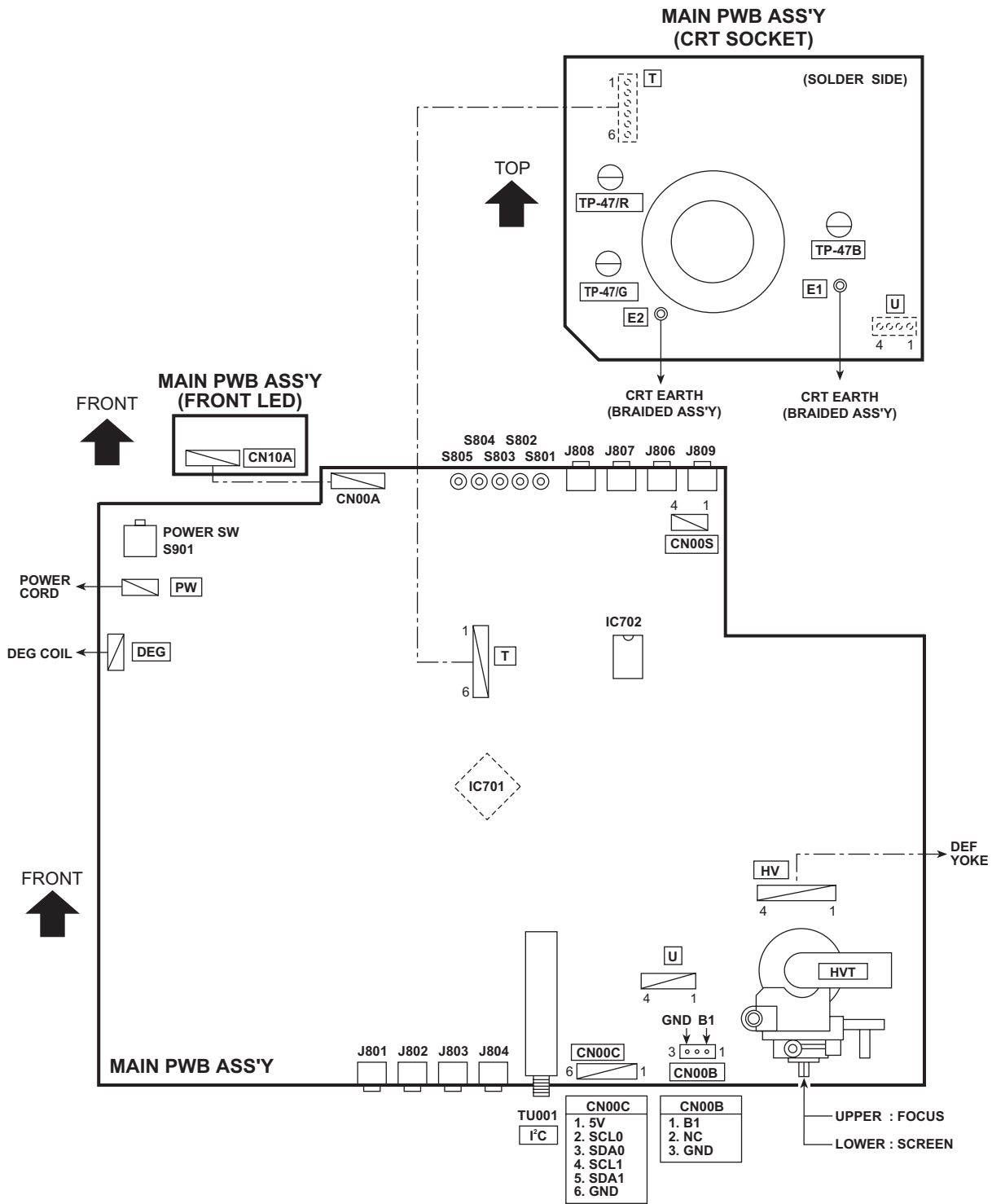
### ■ VIDEO CIRCUIT

- WHITE BALANCE adjustment
- SUB BRIGHT adjustment
- SUB CONTRAST adjustment
- SUB COLOUR adjustment
- SUB TINT adjustment

### ■ VSM/WB SETTING

- VSM adjustment

## 4.5 ADJUSTMENT LOCATIONS



## 4.6 BASIC OPERATION OF SERVICE MENU

### 4.6.1 TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

### 4.6.2 SERVICE MENU ITEMS

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

1.IF	Adjustment of the IF circuits.
2.V/C	Adjustment of the VIDEO circuit.
3.DEF	Adjustment of the DEFLECTION circuit.
4.VSM/WB	Adjustment of the initial setting values of VSM condition as SOFT and USER.
5.PRESET	Adjustment of the RF circuit <b>[Do not adjust]</b> .

### 4.6.3 HOW TO ENTER THE SERVICE MENU

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

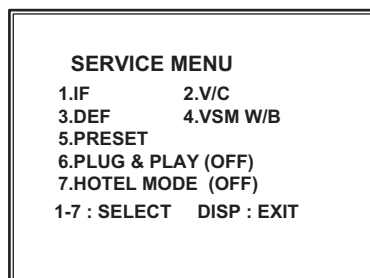
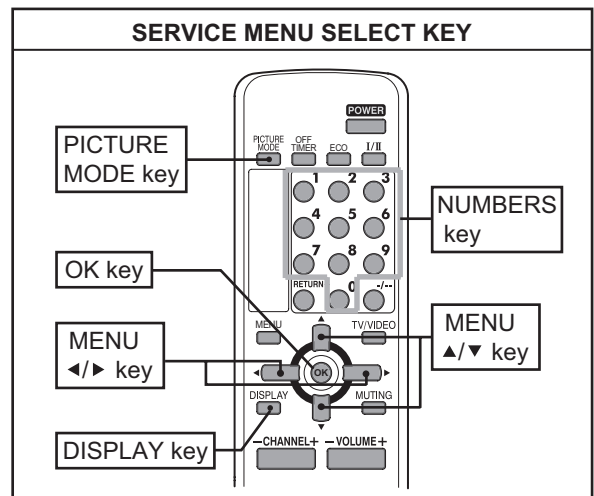


Fig.1



### 4.6.4 HOW TO STORE OF SETTING VALUE

The setting value will be stored automatically when release the REMOTE CONTROL UNIT keys.

### 4.6.5 HOW TO EXIT THE SERVICE MENU

Press the **[DISPLAY]** key from the state of SERVICE MENU.

#### 4.6.6 METHOD OF SETTING

##### ■ 1. IF

[1. VCO]

- (1) [1] key Select **1. IF**.
- (2) [1] key Select **1. VCO**.  
Check the arrow position between the ABOBE REF. and BELOW REF.
- (4) [DISPLAY] key As you press this key twice, you will return to the **SERVICE MENU**.

[2. DELAY POINT]

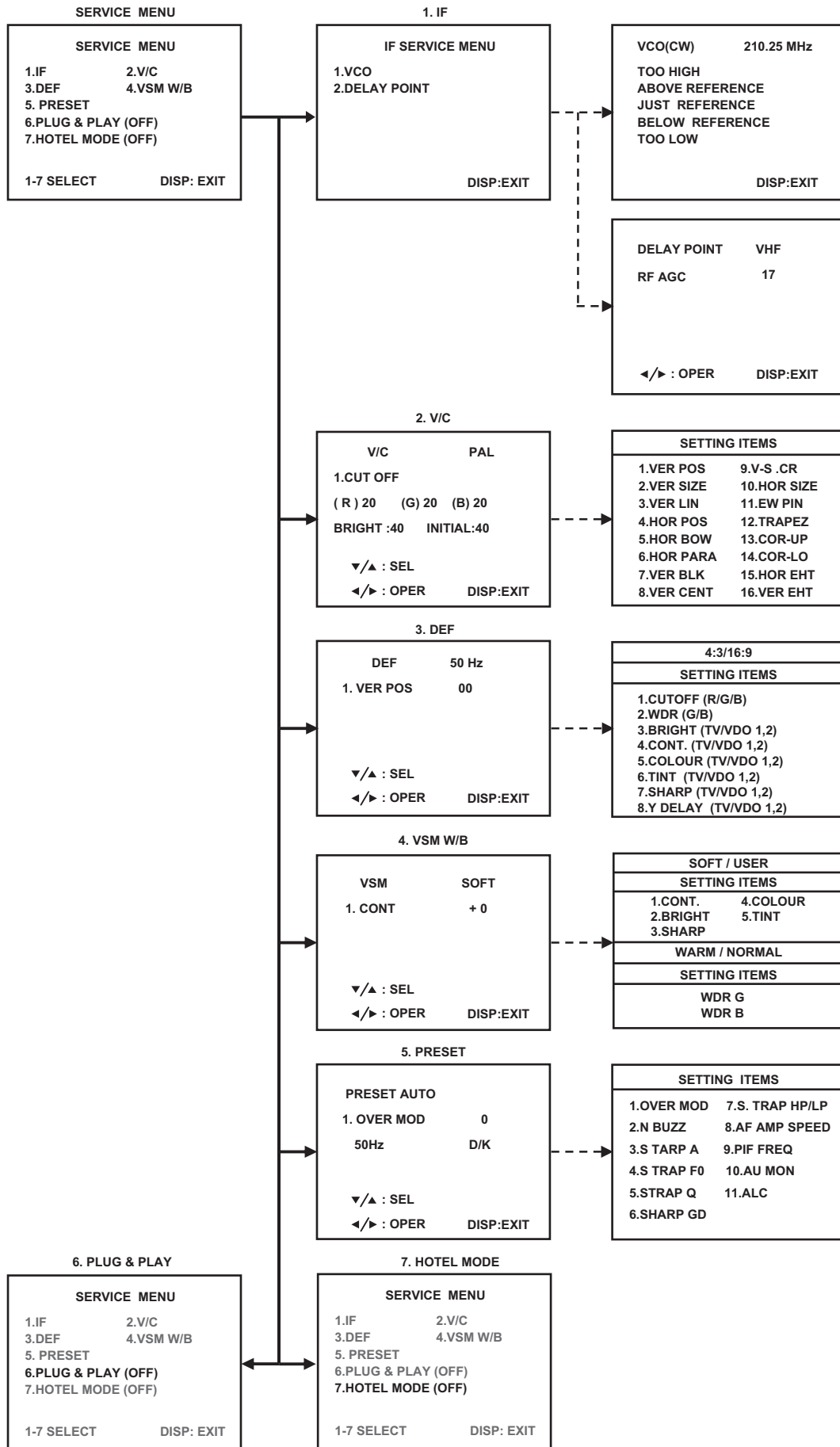
- (1) [1] key Select **1. IF**.
- (2) [2] key Select **2. DELAY POINT**.
- (3) [MENU ◀ / ▶] keys Set (adjust) the setting values of the setting items.
- (4) [DISPLAY] key When this is pressed twice, you will return to the **SERVICE MENU**.

##### ■ 2. V/C, 3. DEF and 4. VSM W/B

- (1) [2] to [4] keys Select one from **2. V/C**, **3. DEF** and **4. VSM W/B**.
- (2) [MENU ▲ / ▼] keys Select setting items.
- (3) [MENU ◀ / ▶] keys Adjust the values of the items.
- (4) [DISPLAY] key When this is pressed, you will return to the **SERVICE MENU**.

##### ■ 5. PRESET (Do not adjust)

### 4.6.7 SERVICE MENU FLOW CHART



#### 4.7 INITIAL SETTING VALUE OF SERVICE MENU

- Adjustment of the SERVICE MENU is made on the basis of the initial setting values ; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.
- Do not change the initial Setting Values of the Setting (Adjustment) items not listed in "ADJUSTMENT PROCEDURE".
- The " --- " means adjustment is not possible.
- " \* " is variable values for adjustment and other value variable when have problem only.

[2. V/C] (Values for adjustment indicate in hexadecimal number.)

[AV-2100QE, AV-21Q17, AV-21Q17/L]

Setting item		Variable range	Initial setting value			
			PAL	SECAM	NTSC 3.58	NTSC 4.43
1.CUT OFF	R	00 - FF	20*			
	G	00 - FF	20*			
	B	00 - FF	20*			
2.WDR	G	00 - FF	40*			
	B	00 - FF	40*			
3.BRIGHT	RF	00 - (+127)	+65*			
	VIDEO-1	(-128) - (+127)	-01			
	VIDEO-2	(-128) - (+127)	00			
4.CONT.	RF	00 - (+127)	+107			
	VIDEO-1	(-128) - (+127)	+07			
	VIDEO-2	(-128) - (+127)				
5.COLOUR	RF	00 - (+127)	+67	+64	---	---
	VIDEO-1	(-128) - (+127)	-02	-6	-01	+08
	VIDEO-2	(-128) - (+127)				
6.TINT	RF	00 - (+127)	+67	+65	---	---
	VIDEO 1/2	(-128) - (+127)	-02	-03	+07	+6
7.SHARP	RF	00 - (+63)	+40		+40	+40
	VIDEO 1/2	00 - (+63)	+45		+40	+45
8.Y DELAY	RF	00 - 07	03	01	02	00
	VIDEO 1/2	00 - 07	02	00	00	05
9.VNR STATUS	RF	---	---			
	VIDEO 1/2	---				



[AV-21QMG7/G, AV-21QMG7/S, AV-21QMG7B/G]

Setting item		Variable range	Initial setting value			
			PAL	SECAM	NTSC 3.58	NTSC 4.43
1.CUT OFF	R	00 - FF	20*			
	G	00 - FF	20*			
	B	00 - FF	20*			
2.WDR	G	00 - FF	40*			
	B	00 - FF	40*			
3.BRIGHT	RF	00 - (+127)	+65*			
	VIDEO-1	(-128) - (+127)	-01			
	VIDEO-2	(-128) - (+127)	-00			
4.CONT.	RF	00 - (+127)	+107			
	VIDEO-1	(-128) - (+127)	+07			
	VIDEO-2	(-128) - (+127)				
5.COLOUR	RF	00 - (+127)	+67	+64	+69	+06
	VIDEO-1	(-128) - (+127)	-02	-06	-01	+08
	VIDEO-2	(-128) - (+127)				
6.TINT	RF	00 - (+127)	+67	+65	+57	+04
	VIDEO 1/2	(-128) - (+127)	-02	-03	+07	+06
7.SHARP	RF	00 - (+63)	+40		+40	+40
	VIDEO 1/2	00 - (+63)	+45		+40	+45
8.Y DELAY	RF	00 - 07	03	01	02	00
	VIDEO 1/2	00 - 07	02	00	00	05
9.VNR STATUS	RF	---	---			
	VIDEO 1/2	---				

[3. DEFLECTION] (Values for adjustment indicate in hexadecimal number.)

Setting item	Variable range		Initial setting value	
	50Hz	60Hz	50Hz	60Hz
1.VER. POS	00 - 0F	00 - 0F	00	00
2.VER. SIZE	00 - 3F	C0 - 3F	2A*	00*
3. VER LIN	00 - 1F	E0 - FF	0D*	00*
4. HOR POS	00 - 1F	E0 - FF	0A*	03*
5. HOR BOW	00 - 07		03*	03*
6. HOR PARA	00 - 07		03*	03*
7. VER BLK	00 - 0F		04	04
8. VER CENT	00 - 3F		21*	00*
9. V.S-CR	00 - 1F	E0 - 1F	19*	00*
10. HOR SIZE			30*	00*
11. EW-PIN			45*	00*
12. TRAPEZ			23*	00*
13. COR-UP			0A*	0A*
14. COR-LOW			0B*	0B*
15. H EHT			04	04
16. V EHT			04	04

**[4. VSM/WB] (Values for adjustment indicate in hexadecimal number.)**

Setting item	Variable range	Initial setting value	
		SOFT	USER
CONT.	80 - 7F	DF	00
BRIGHT	80 - 7F	00	00
SHARP	80 - 7F	FA	00
COLOUR	80 - 7F	00	00
TINT	80 - 7F	00	00

Setting item	Initial setting value	
	WARM	NORMAL
WDR G	F4	07
WDR B	EA	F9

**[5. PRESET] (Do not adjust)**

The items in the following table, it is no requirement for adjustment. If values had changed by the miss operation, set the initial setting values in the following table.

Setting item	Variable range	Initial setting value			
		M	B/G	I	D/K
1. OVER MOD	00 - 01	00			
2. N BUZZ	00 - 01	01			
3. S TRAP A	00 - 01	00	00	00	00
4. S TRAP F0	00 - 0F	08	06	08	08
5. S TRAP Q	00 - 03	02	02	02	01
6. S TRAP GD	00 - 03	01	00	00	00
7. S TRAP HP/LP	00 - 03	00	00	00	00
8. AF AMP SPEED	00 - 01	00			
9. PIF FREQ	00 - 03	00			
10. AU MOM	00 - 03	00			
11. ALC	FC - FF	FF			

**[6.PLUG & PLAY]**

Setting of the last memory for shipment to "ON".

When this mode is ON, the TV can be turned on/off power by connecting/disconnecting the AC plug into AC outlet.

**[7.HOTEL MODE]**

Setting of the last memory for shipment to "OFF".

When this mode is ON, all keys except following ones are invalid.

[POWER / CHANNEL,VOLUME +/- / 10KEY / MUTING / "TV/VIDEO" / OFF TIMER / "-/-" / DISPLAY]

## 4.8 ADJUSTMENT PROCEDURE

### 4.8.1 CHECK ITEM

Item	Measuring instrument	Test point	Adjustment part	Description
<b>B1 VOLTAGE</b>	Signal generator DC voltmeter	TP-B1 : 1-pin TP-E : 5-pin (S1 connector) [MAIN PWB]		(1) Receive a whole black signal. (2) Connect a DC voltmeter to 1-pin and 5-pin of S1 connector. (3) Make sure that the voltage is <b>DC115.2V±2.0V</b> .
<b>HIGH VOLTAGE</b>	HV voltmeter Signal generator	CRT anode Chassis GND		(1) Receive any broadcast. (2) Connect the earth clip of High voltmeter to chassis GND. (3) Connect the probe of High voltmeter to CRT anode. (4) Make sure that the voltage is <b>DC24.5kV ±1.5kV</b> . <b>NOTE:</b> • Remove the probe before removing the earth clip.

### 4.8.2 TUNER / IF CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
<b>IF VCO</b>	Remote control unit		[1.IF] 1.VCO	<ul style="list-style-type: none"> <li>Under normal conditions, no adjustment is required.</li> <li>Confirmation adjustment.               <ol style="list-style-type: none"> <li>Select 1.IF from the SERVICE MENU.</li> <li>Select &lt;1.VCO&gt;</li> <li>Receive any broadcast.</li> <li>Check the ←(Arrow) position between the ABOVE REF. and BELOW REF.</li> </ol> </li> </ul>

Item	Measuring instrument	Test point	Adjustment part	Description										
<b>DELAY POINT (AGC)</b>	Signal generator		[1. IF] 2. DELAY POINT (AGC TAKE-OVER)	(1) Receive a black and white signal (colour off). (2) Select 1. IF. (3) Select <2. DELAY POINT>. (4) Set the setting values of the setting items as shown below table. (5) Adjust the [MENU ◀/▶] keys until video noise disappears. (6) Turn to other channels and make sure that there are no irregularities.										
	Remote control unit													
<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <p>DELAY POINT VHF</p> <p>RF AGC **</p> <p>◀/▶ : OPERATE    DISP : EXIT</p> </div>														
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Setting Item</th> <th>Variable range</th> <th>Initial setting value</th> </tr> </thead> <tbody> <tr> <td rowspan="2">DELAY POINT (AGC TAKE-OVER)</td> <td>NTSC3.58</td> <td style="text-align: center;">0 - 127</td> <td style="text-align: center;">17</td> </tr> <tr> <td>OTHER</td> <td></td> <td style="text-align: center;">17</td> </tr> </tbody> </table>		Setting Item	Variable range	Initial setting value	DELAY POINT (AGC TAKE-OVER)	NTSC3.58	0 - 127	17	OTHER		17	
Setting Item	Variable range	Initial setting value												
DELAY POINT (AGC TAKE-OVER)	NTSC3.58	0 - 127	17											
	OTHER		17											

#### 4.8.3 FOCUS

Item	Measuring instrument	Test point	Adjustment part	Description
<b>FOCUS</b>	Signal generator		FOCUS VR [In HVT]	(1) Receive a crosshatch signal. (2) While looking at the screen center, adjust the <b>FOCUS VR</b> to make the vertical and horizontal lines as fine and sharp as possible. (3) Make sure that when the screen is darkened, the lines remain in good focus.

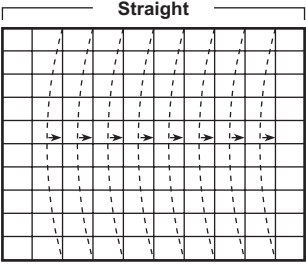
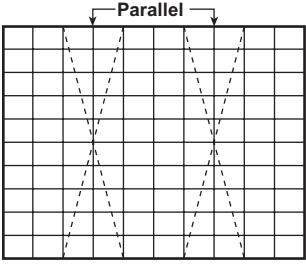
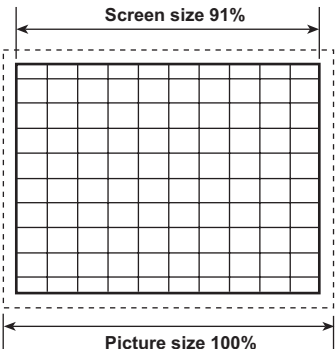
#### 4.8.4 DEFLECTION CIRCUIT

- There are 2 modes of adjustment (setting value) 50Hz mode and 60Hz mode, depending upon the kind of signals (vertical frequency 50Hz / 60Hz).
- When adjusted in 50Hz mode and 60Hz mode will be automatically set.  
**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.**
- Make sure that the adjustment is properly done on the screen of 60Hz mode.

#### NOTE:

- Adjust to make both 50Hz & 60Hz are the same V. size and fine straight line.
- When adjust again, adjust 50Hz mode first.
- When adjust in 60Hz mode, only 60Hz mode is adjust.

Item	Measuring instrument	Test point	Adjustment part	Description
<b>V. POSITION / V. SIZE</b>	Signal generator		[3. DEF] 1. VER. POS 2. VER. SIZE	(1) Receive a crosshatch signal. (2) Select 3. DEF from the SERVICE MENU. (3) Select <1. VER. POS>. (4) Set the initial setting value of <1. VER. POS>. (5) Adjust <1. VER. POS> to make the vertical centre fall on the display centre. (6) Select <2. VER. SIZE>. (7) Set the initial setting value of <2. VER. SIZE>. (8) Adjust <2. VER. SIZE> to make the vertical screen size be <b>92%</b> of the picture size.
	Remote control unit			
<b>V.LINEARITY / V-S.CURVE</b>	Signal generator		[3. DEF] 3. VER. LIN. 9. V.S-CR	<ul style="list-style-type: none"> <li>• If the vertical linearity is noticeably deteriorated, perform the following steps.</li> <li>(1) Receive a crosshatch signal.</li> <li>(2) Select 3. DEF from the SERVICE MENU.</li> <li>(3) Select &lt;3. VER. LIN.&gt;.</li> <li>(4) Set the initial setting value of &lt;3. VER. LIN.&gt;.</li> <li>(5) Select &lt;9. V.S-CR&gt;.</li> <li>(6) Set the initial setting value of &lt;9. V.S-CR&gt;.</li> <li>(7) Adjust &lt;3. VER. LIN.&gt; and &lt;9. V.S-CR&gt; so that the space of upper and lower lines on TOP, CENTRE and BOTTOM become uniform.</li> </ul>
	Remote control unit			
<b>H. POSITION</b>	Signal generator		[3. DEF] 4. HOR. POS	(1) Receive a circle pattern signal. (2) Select 3. DEF from the SERVICE MENU. (3) Select <4. HOR. POS>. (4) Set the initial setting value of <4. HOR. POS>. (5) Adjust <4.HOR. POS> to be equal the width of (A) and (B).
	Remote control unit			

Item	Measuring instrument	Test point	Adjustment part	Description
<b>H. BOW</b>	Signal generator  Remote control unit		[4.DEF] 5. HOR BOW	(1) Receive a crosshatch signal. (2) Select 4. DEF from the SERVICE MENU. (3) Select <5. HOR BOW>. (4) Set the initial setting value of <5. HOR BOW>. (5) Adjust <5. HOR BOW> to straighten the vertical arc distortion.
				
<b>H. PARALLEL</b>	Signal generator  Remote control unit		[4.DEF] 6. HOR PARA	(1) Receive a crosshatch signal. (2) Select 4. DEF from the SERVICE MENU. (3) Select <6. HOR PARA>. (4) Set the initial setting value of <6. HOR PARA>. (5) Adjust <6. HOR PARA> to straighten with parallel the trapezium distortion at the centre of the screen.
				
<b>H. SIZE</b>	Signal generator  Remote control unit		[4.DEF] 10. H-SIZE	<b>PAL H. SIZE</b> (1) Receive a PAL crosshatch signal. (2) Select 4. DEF from the SERVICE MODE. (3) Select <10. H-SIZE>. (4) Set the initial setting value of <10. H-SIZE>. (5) Adjust <10. H-SIZE> to make the horizontal screen size to 91% of the picture size. (6) Press the [OK] key to memorize the set values. <b>NTSC H. SIZE</b> (1) Receive a NTSC crosshatch signal. (2) Follow the same step 2 to 6 as in PAL H. SIZE.
				

Item	Measuring instrument	Test point	Adjustment part	Description
<b>SIDE PIN</b>	Signal generator		[4. DEF] 11. EW-PIN	<p><b>PAL SIDE PIN</b></p> <ol style="list-style-type: none"> <li>(1) Receive a PAL crosshatch signal.</li> <li>(2) Select <b>4. DEF</b> from the SERVICE MODE.</li> <li>(3) Select <b>&lt;11. EW-PIN&gt;</b>.</li> <li>(4) Set the initial setting value of <b>&lt;11. EW-PIN&gt;</b>.</li> <li>(5) Adjust <b>&lt;11. EW-PIN&gt;</b> so that the first vertical lines at the left and right edges on the screen are straight.</li> <li>(6) Press the <b>[OK]</b> key to memorize the set values.</li> </ol> <p><b>NTSC SIDE PIN</b></p> <ol style="list-style-type: none"> <li>(1) Receive a NTSC crosshatch signal.</li> <li>(2) Follow the same step 2 to 6 as in PAL SIDE PIN.</li> </ol>
	Remote control unit			
<b>TRAPEZIUM</b>	Signal generator		[4. DEF] 12. TRAPEZ	<p><b>PAL TRAPEZIUM</b></p> <ol style="list-style-type: none"> <li>(1) Receive a PAL crosshatch signal.</li> <li>(2) Select <b>4. DEF</b> from the SERVICE MODE.</li> <li>(3) Select <b>&lt;12. TRAPEZ&gt;</b>.</li> <li>(4) Set the initial setting value of <b>12. TRAPEZ</b>.</li> <li>(5) Adjust <b>&lt;12. TRAPEZ&gt;</b> so that the vertical lines at the left and right edges on the screen are in parallel.</li> <li>(6) Press the <b>[OK]</b> key to memorize the set values.</li> </ol> <p><b>NTSC TRAPEZIUM</b></p> <ol style="list-style-type: none"> <li>(1) Receive a NTSC crosshatch signal.</li> <li>(2) Follow the same step 2 to 6 as in PAL TRAPEZIUM.</li> </ol>
	Remote control unit			
<b>CORNER PIN</b>	Signal generator		[4. DEF] 13. COR-UP 14. COR-LO	<p><b>PAL CORNER PIN</b></p> <ol style="list-style-type: none"> <li>(1) Receive a PAL crosshatch signal.</li> <li>(2) Select <b>4. DEF</b> from the SERVICE MODE.</li> <li>(3) Select <b>&lt;13. COR-UP&gt;</b>.</li> <li>(4) Set the initial setting value of <b>&lt;13. COR-UP&gt;</b>.</li> <li>(5) Select <b>&lt;14. COR-LO&gt;</b>.</li> <li>(6) Set the initial setting value of <b>&lt;14. COR-LO&gt;</b>.</li> <li>(7) Adjust <b>&lt;13. COR-UP&gt;</b> and <b>&lt;14. COR-LO&gt;</b> so that the vertical lines at the four corners on the screen are straight.</li> <li>(8) Press the <b>[OK]</b> key to memorize the set values.</li> </ol> <p><b>NTSC CORNER PIN</b></p> <ol style="list-style-type: none"> <li>(1) Receive a NTSC crosshatch signal.</li> <li>(2) Follow the same step 2 to 8 as in PAL CORNER.</li> </ol>
	Remote control unit			

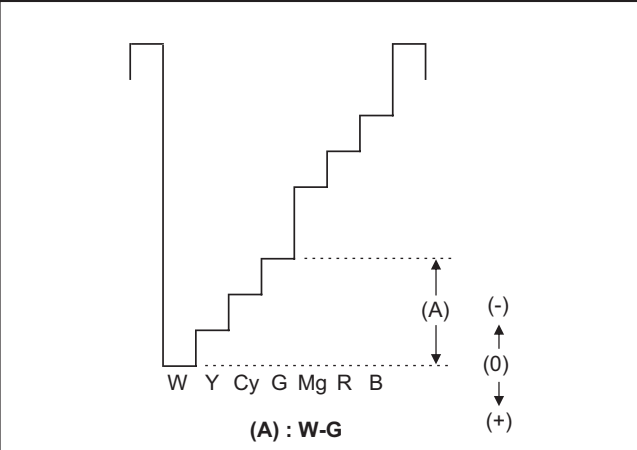
#### 4.8.5 VIDEO CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
<b>WHITE BALANCE (LOW LIGHT)</b>	Signal generator  Remote control unit		[2.V/C] 1. CUT OFF (R) 1. CUT OFF (G) 1. CUT OFF (B)  SCREEN VR [IN HVT]	<ol style="list-style-type: none"> <li>(1) Receive a 100% all white signal (colour off).</li> <li>(2) Select 2. V/C from the SERVICE MENU.</li> <li>(3) Select &lt;1. CUT OFF&gt;.</li> <li>(4) Set the initial setting value of &lt;1. CUT OFF&gt;.</li> <li>(5) Press the [1] key to show the single horizontal line on screen.</li> <li>(6) Turn the SCREEN VR fully counter-clockwise, then slowly turn it clockwise to where one of a red, blue or green colour is faintly visible.</li> <li>(7) Adjust the two colors which did not appear until the single horizontal line that is displayed becomes white using the [4] to [9] keys.</li> <li>(8) Turn the SCREEN VR to where the single horizontal line glows faintly.</li> <li>(9) Press the [1] key to turn off the single horizontal line.</li> </ol>
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;"><b>KEY ASSIGNMENT OF REMOTE CONTROL UNIT</b></p> </div>				
<b>WHITE BALANCE (HIGH LIGHT)</b>	Signal generator  Remote control unit		[2.V/C] 2. WDR (G) 2. WDR (B)	<ol style="list-style-type: none"> <li>(1) Receive a 100% all white signal (colour off).</li> <li>(2) Select 2. V/C from the SERVICE MENU.</li> <li>(3) Select &lt;2. WDR&gt;.</li> <li>(4) Set the initial setting value of &lt;2. WDR&gt;.</li> <li>(5) Adjust the screen until it becomes white using the [5], [8], [6] and [9] keys.</li> </ol>
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;"><b>KEY ASSIGNMENT OF REMOTE CONTROL UNIT</b></p> </div>				
<b>SUB BRIGHT</b>	Remote control unit		[2. V/C] 3. BRIGHT	<ol style="list-style-type: none"> <li>(1) Receive any broadcast.</li> <li>(2) Select 2. V/C from the SERVICE MENU.</li> <li>(3) Select &lt;3. BRIGHT&gt;.</li> <li>(4) Set the initial setting value of &lt;3. BRIGHT&gt;.</li> <li>(5) If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness.</li> </ol>
<b>SUB CONTRAST</b>	Remote control unit		[2. V/C] 4. CONT.	<ol style="list-style-type: none"> <li>(1) Receive any broadcast.</li> <li>(2) Select 2. V/C from the SERVICE MENU.</li> <li>(3) Select &lt;4. CONT&gt;.</li> <li>(4) Set the initial setting value of &lt;4. CONT&gt;.</li> <li>(5) If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast.</li> </ol>



Item	Measuring instrument	Test point	Adjustment part	Description
SUB COLOUR	Remote control unit		[2. V/C] 5. COLOUR	<p><b>[Method of adjustment without measuring instrument]</b></p> <p><b>PAL COLOUR</b></p> <ol style="list-style-type: none"> <li>Receive a PAL broadcast.</li> <li>Select 2. V/C from the SERVICE MENU.</li> <li>Select &lt;5. COLOUR&gt;.</li> <li>Set the initial setting value of &lt;5. COLOUR&gt;.</li> <li>If the colour is not the best with the initial setting value, make fine adjustment until you get the best colour.</li> </ol> <p><b>SECAM COLOUR</b></p> <ol style="list-style-type: none"> <li>Receive a SECAM broadcast.</li> <li>Make fine adjustment of SECAM COLOUR as previously.</li> </ol> <p><b>NTSC 3.58 COLOUR</b></p> <ol style="list-style-type: none"> <li>Receive a NTSC 3.58MHz broadcast.</li> <li>Make similar fine adjustment of NTSC 3.58 COLOUR as previously.</li> </ol> <p><b>NTSC 4.43 COLOUR</b></p> <ol style="list-style-type: none"> <li>When NTSC 3.58 adjustment completed, NTSC 4.43 will be automatically set at the respective values.</li> </ol>
	Signal generator  Oscilloscope  Remote control unit	TP-47R/G TP-E [CRT SOCKET PWB]	[2. V/C] 5. COLOUR	<p><b>[Method of adjustment using measuring instrument]</b></p> <p><b>PAL COLOUR</b></p> <ol style="list-style-type: none"> <li>Receive a PAL full field colour bar signal (75% white).</li> <li>Select 2. V/C from the SERVICE MENU.</li> <li>Select &lt;5. COLOUR&gt;.</li> <li>Set the initial setting value of &lt;5. COLOUR&gt;.</li> <li>Connect the oscilloscope to TP-47R/G and TP-E.</li> <li>Adjust PAL COLOUR to bring the value of (A) in the voltage table.</li> </ol> <p><b>SECAM COLOUR</b></p> <ol style="list-style-type: none"> <li>Receive a SECAM full field colour bar signal (75% white).</li> <li>Set the initial setting value of SECAM COLOUR .</li> <li>Adjust SECAM COLOUR to bring the value of (A) in the voltage table.</li> </ol> <p><b>NTSC 3.58 COLOUR</b></p> <ol style="list-style-type: none"> <li>Receive a NTSC 3.58 full field colour bar signal (75% white).</li> <li>Set the initial setting value of NTSC 3.58 COLOUR.</li> <li>Adjust NTSC 3.58 COLOUR to bring the value of (A) in the voltage table.</li> </ol> <p><b>NTSC 4.43 COLOUR</b></p> <ol style="list-style-type: none"> <li>When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.</li> </ol>



(A) : W-G

	Voltage setting (A)		
	PAL	SECAM	NTSC3.58
AV-21Q17 AV-21Q17/L AV-2100QE	+18V	+16V	+17V (VDO)
AV-21QMG7/G AV-21QMG7/S AV-21QMG7B/G	+18V	+16V	+21V (RF)

Item	Measuring instrument	Test point	Adjustment part	Description
SUB TINT	Signal generator  Remote control unit		[2. V/C] 6. TINT	<p><b>[Method of adjustment without measuring instrument]</b></p> <p><b>PAL TINT</b></p> <ol style="list-style-type: none"> <li>Receive a PAL broadcast.</li> <li>Select 2. V/C from the SERVICE MENU.</li> <li>Select <b>&lt;6. TINT&gt;</b>.</li> <li>Set the initial setting value of <b>&lt;6. TINT&gt;</b>.</li> <li>If you cannot get the best tint with the initial setting value, make fine adjustment until you get the best tint.</li> </ol> <p><b>NTSC 3.58 TINT</b></p> <ol style="list-style-type: none"> <li>Receive a NTSC 3.58MHz broadcast.</li> <li>Make similar fine adjustment of NTSC 3.58 TINT as previously.</li> </ol> <p><b>NTSC 4.43 TINT</b></p> <ol style="list-style-type: none"> <li>When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.</li> </ol>
	Signal generator  Oscilloscope  Remote control unit	TP-47R/G TP-E [CRT SOCKET PWB]	[2. V/C] 6. TINT	<p><b>[Method of adjustment using measuring instrument]</b></p> <p><b>PAL TINT</b></p> <ol style="list-style-type: none"> <li>Receive a PAL full field colour bar signal (75% white).</li> <li>Select 2. V/C from the SERVICE MENU.</li> <li>Select <b>&lt;6. TINT&gt;</b>.</li> <li>Set the initial setting value of <b>&lt;6. TINT&gt;</b>.</li> <li>Connect the oscilloscope to TP-47R/G and TP-E.</li> <li>Adjust PAL TINT to bring the value of <b>(B)</b> in the voltage table in the left.</li> </ol> <p><b>NTSC 3.58 TINT</b></p> <ol style="list-style-type: none"> <li>Receive a NTSC 3.58 full colour bar signal (75% white).</li> <li>Set the initial setting value of NTSC 3.58 TINT.</li> <li>Adjust NTSC 3.58 TINT to bring the value of <b>(B)</b> in the voltage table in the left.</li> </ol> <p><b>NTSC 4.43 TINT</b></p> <ol style="list-style-type: none"> <li>When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.</li> </ol>

(B) : W-Cy

	Voltage setting (B)	
	PAL	NTSC3.58
AV-21Q17 AV-21Q17/L AV-2100QE	+14V	+17V (VDO)
AV-21QMG7/G AV-21QMG7/S AV-21QMG7B/G	+14V	+15V (RF)

#### 4.8.6 VSM/WB SETTING

Item	Measuring instrument	Test point	Adjustment part	Description																															
<b>VSM/WB</b>	Remote control unit		[4. VSM] CONT. BRIGHT SHARP COLOUR TINT WDR G WDR B	<p>(1) Select 4. VSM from the SERVICE MENU.            (2) Select PICTURE MODE to "<b>SOFT</b>".            (3) Select <b>&lt;CONT.&gt;</b>.            (4) Set the initial setting value of <b>&lt;CONT.&gt;</b> as shown in the below table.            (5) Select <b>&lt;BRIGHT&gt;</b> to <b>&lt;TINT&gt;</b> in turn, and set the values.            (6) Respectively select the "<b>USER</b>". Make similar adjustment as same step as above.            (7) Select WHITE BALANCE to "<b>WARM</b>".            (8) Select <b>&lt;WDR G&gt;</b>.            (9) Set the initial setting value of <b>&lt;WDR G&gt;</b> as shown in the below table.            (10) Select <b>&lt;WDR B&gt;</b>, and set the values.            (11) Respectively select the "<b>NORMAL</b>". Make similar adjustment as same step as above.</p> <p>• <b>VSM</b></p> <table border="1" data-bbox="1010 772 1468 1024"> <thead> <tr> <th rowspan="2">Setting item</th> <th colspan="2">Setting value</th> </tr> <tr> <th>SOFT</th> <th>USER</th> </tr> </thead> <tbody> <tr> <td>CONT.</td> <td>DF</td> <td>00</td> </tr> <tr> <td>BRIGHT</td> <td>00</td> <td>00</td> </tr> <tr> <td>SHARP</td> <td>FA</td> <td>00</td> </tr> <tr> <td>COLOUR</td> <td>00</td> <td>00</td> </tr> <tr> <td>TINT</td> <td>00</td> <td>00</td> </tr> </tbody> </table> <p>• <b>WB</b></p> <table border="1" data-bbox="1010 1073 1468 1203"> <thead> <tr> <th rowspan="2">Setting item</th> <th colspan="2">Setting value</th> </tr> <tr> <th>WARM</th> <th>NORMAL</th> </tr> </thead> <tbody> <tr> <td>WDR.G</td> <td>F4</td> <td>07</td> </tr> <tr> <td>WDR.B</td> <td>EA</td> <td>F9</td> </tr> </tbody> </table>	Setting item	Setting value		SOFT	USER	CONT.	DF	00	BRIGHT	00	00	SHARP	FA	00	COLOUR	00	00	TINT	00	00	Setting item	Setting value		WARM	NORMAL	WDR.G	F4	07	WDR.B	EA	F9
Setting item	Setting value																																		
	SOFT	USER																																	
CONT.	DF	00																																	
BRIGHT	00	00																																	
SHARP	FA	00																																	
COLOUR	00	00																																	
TINT	00	00																																	
Setting item	Setting value																																		
	WARM	NORMAL																																	
WDR.G	F4	07																																	
WDR.B	EA	F9																																	

## SECTION 5 TROUBLESHOOTING

### 5.1 SELF CHECK FUNCTIONS

#### 5.1.1 OUTLINE

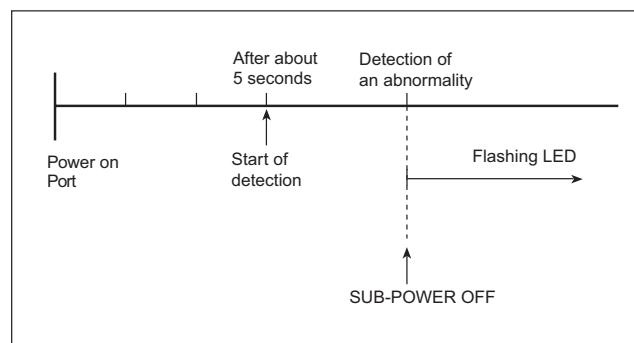
This model has self check functions given below. When an abnormality has been detected, the SUB POWER is turned off and POWER LED flashes to inform of the failure. An abnormality is detected by the signal input state of the control line connected to the microcomputer.

#### 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 24-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 disconnected and connected again.
CRT neck broken protection	Operation of CRT neck protection circuit.		

#### 5.1.3 SELF CHECK INDICATING FUNCTION

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



#### [ INDICATION BY THE POWER LED ]

Item	LED flashing intervals
B1 over-current protection / CRT neck broken protection	0.3 seconds



# JVC

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Display category 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

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(No.YA552)

# JVC

Preliminary

## SCHEMATIC DIAGRAMS

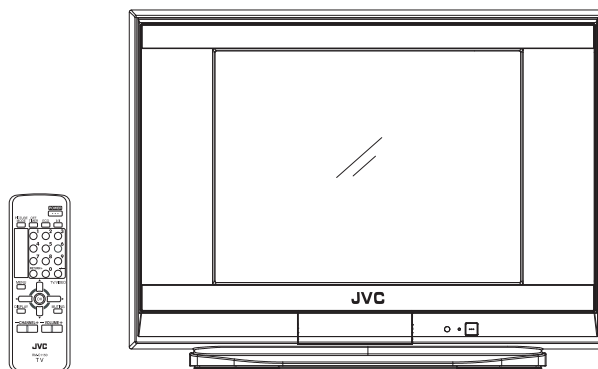
COLOUR TELEVISION

**AV-2100QE, AV-21Q17,  
AV-21Q17<sub>/L</sub>, AV-21QMG7<sub>/G</sub>,  
AV-21QMG7<sub>/S</sub>, AV-21QMG7B<sub>/G</sub>**

CD-ROM No.SML200708

BASIC CHASSIS

CQ



# AV-2100QE, AV-21Q17, AV-21Q17/L, AV-21QMG7/G, AV-21QMG7B/G, AV-21QMG7/S STANDARD CIRCUIT DIAGRAM

## NOTE ON USING CIRCUIT DIAGRAMS

### 1.SAFETY

The components identified by the  $\triangle$  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : 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 $\Omega$ /V
- (4)Oscilloscope sweeping time : H  $\Rightarrow$  20 $\mu$ s / div  
: V  $\Rightarrow$  5ms / div  
: Others  $\Rightarrow$  Sweeping time is specified
- (5)Voltage values : All DC voltage values

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

### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R1209  $\rightarrow$  R209

### 4.INDICATIONS ON THE CIRCUIT DIAGRAM

#### (1)Resistors

##### ● Resistance value

- No unit : [ $\Omega$ ]
- K : [k $\Omega$ ]
- M : [M $\Omega$ ]

##### ● Rated allowable power

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

##### ● Type

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

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

#### (2)Capacitors

##### ● Capacitance value

- 1 or higher : [pF]
- less than 1 : [ $\mu$ F]

##### ● Withstand voltage

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

\* Electrolytic Capacitors

47/50[Example]: Capacitance value [ $\mu$ F]/withstand voltage[V]

##### ● Type

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

#### (3)Coils

- No unit : [ $\mu$ H]
- Others : As specified

#### (4)Power Supply



\* Respective voltage values are indicated

#### (5)Test point

- : Test point
- : Only test point display

#### (6)Connecting method

- : Connector
- : Wrapping or soldering
- : Receptacle

#### (7)Ground symbol

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

### 5.NOTE FOR REPAIRING SERVICE

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

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

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

#### 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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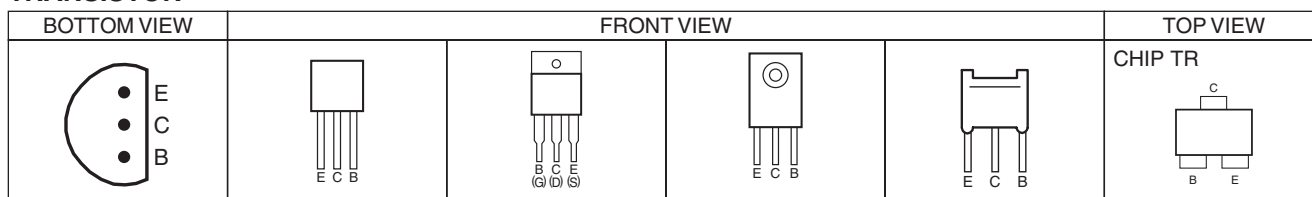
**WAVEFORMS ..... 2-12**

**USING P.W. BOARD**

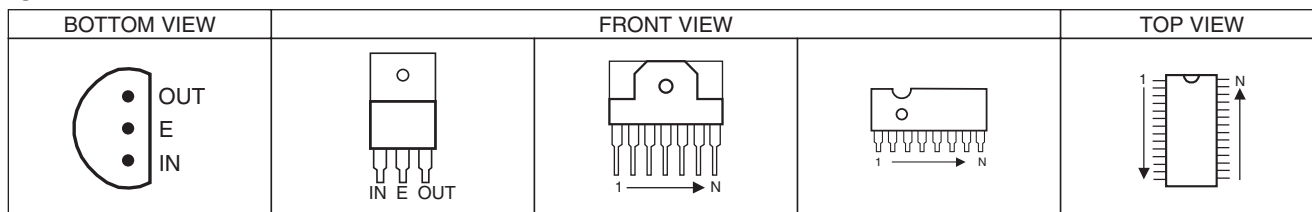
P.W.B ASS'Y name	AV-2100QE	AV-21Q17	AV-21Q17/L	AV-21QMG7/G	AV-21QMG7B/G	AV-21QMG7/S
MAIN P.W. BOARD	SCQ-1403A-H2	SCQ-1402A-H2	SCQ-1407A-H2	SCQ-1401A-H2	←	SCQ-1401A-H2

## SEMICONDUCTOR SHAPES

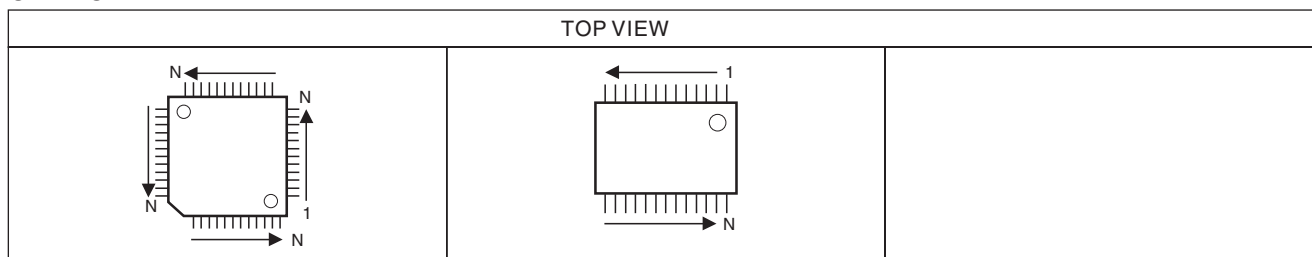
### TRANSISTOR



### IC

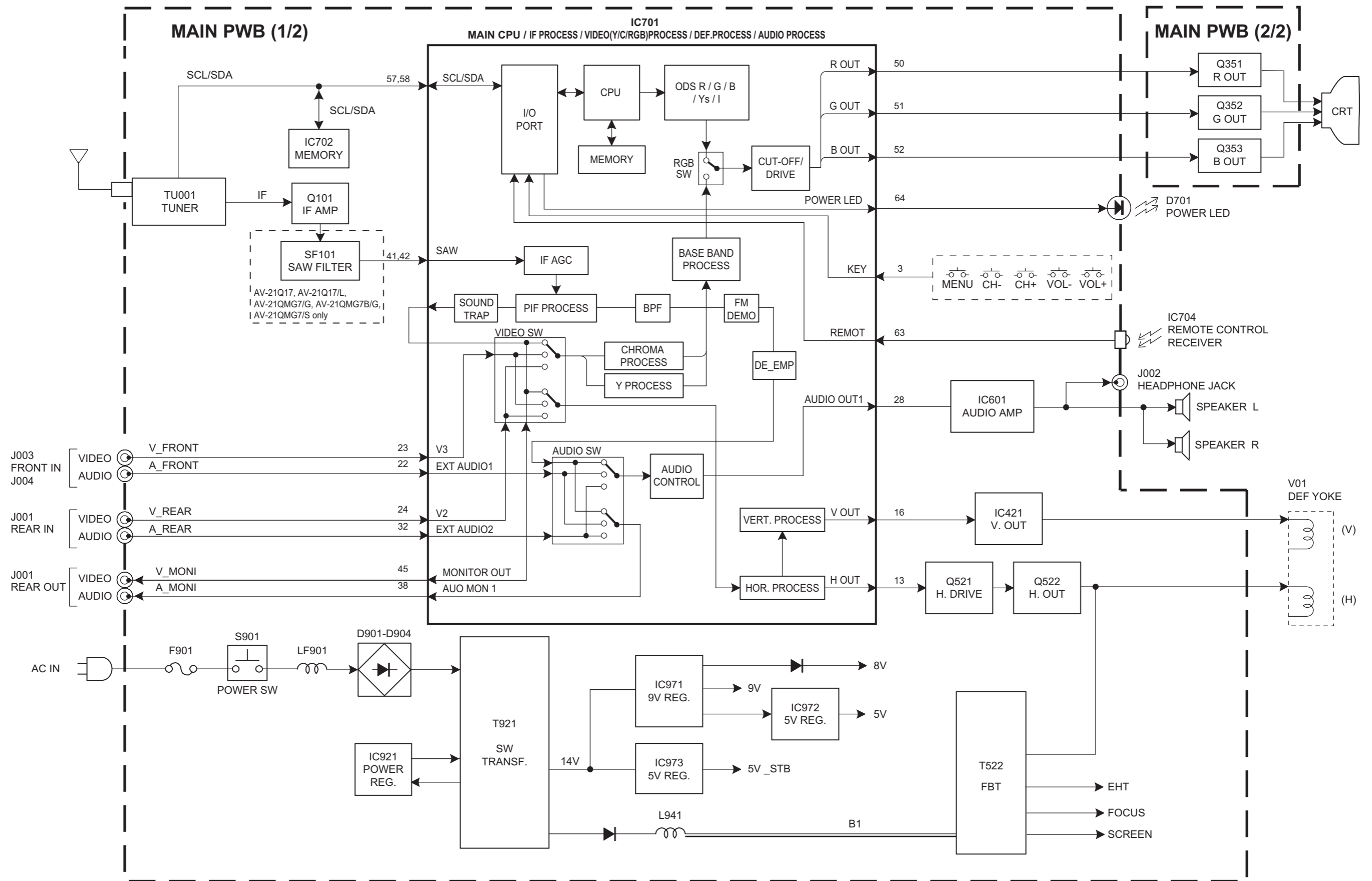


### CHIP IC





# BLOCK DIAGRAM

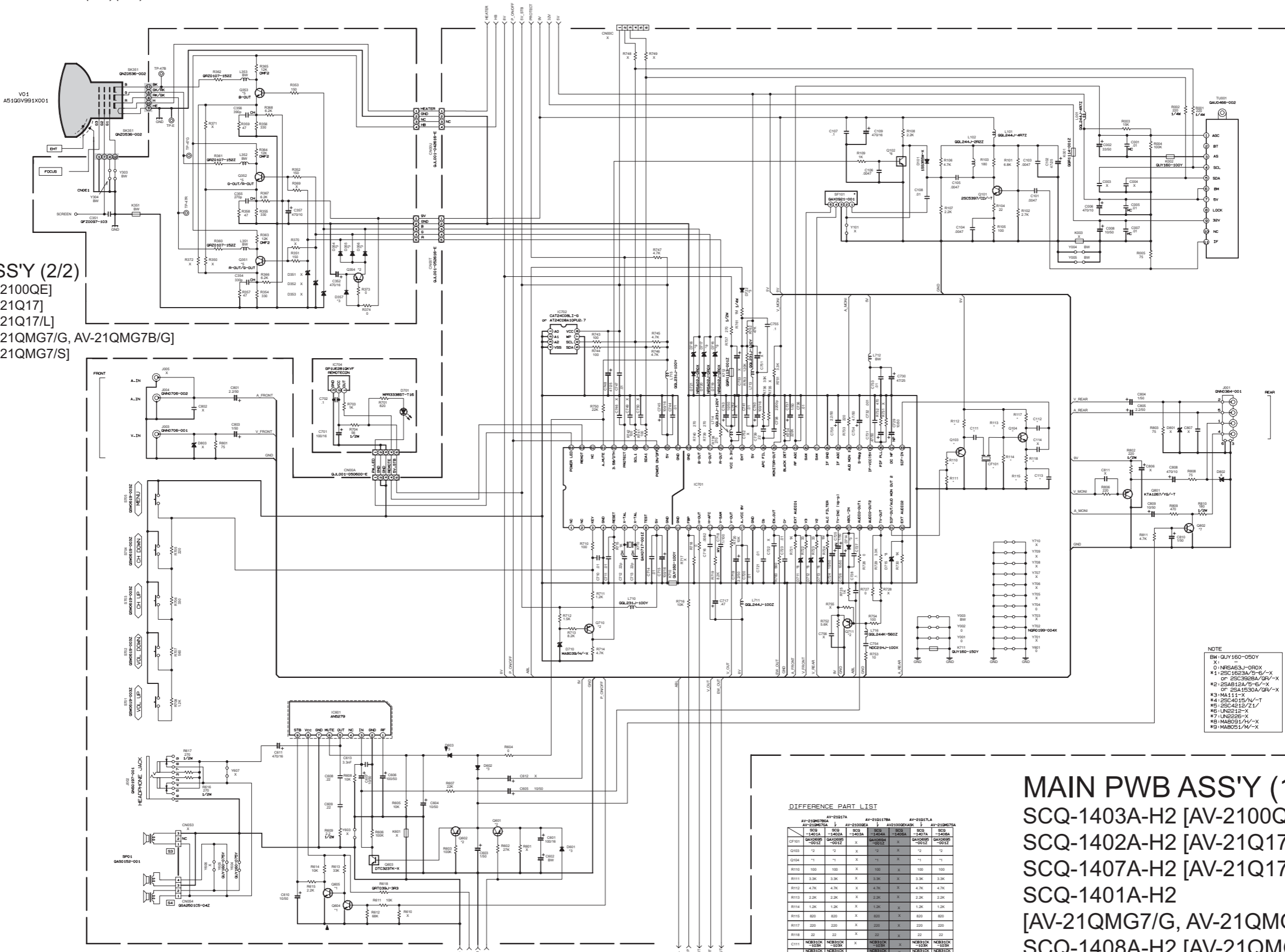


# CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/2)(2/2) SHEET 1

## MAIN PWB ASS'Y (2/2)

- SCQ-1403A-H2 [AV-2100QE]
- SCQ-1402A-H2 [AV-21Q17]
- SCQ-1407A-H2 [AV-21Q17/L]
- SCQ-1401A-H2 [AV-21QMG7/G, AV-21QMG7B/G]
- SCQ-1408A-H2 [AV-21QMG7/S]



NOTE  
 BW: GUY160-050Y  
 X: 0: NFR3387-1.6  
 #1: SSC1823A/5-B/-X  
 or SSC392BA/QR/-X  
 #2: 2SAB12A/5-B/-X  
 or 2SA1530A/QR/-X  
 #3: MA111-X  
 #4: 2SC4016A/-T  
 #5: 2SC4212/Z1  
 #6: UN2212-X  
 #7: UN2226-X  
 #8: MAB091/H/-X  
 #9: MAB051/M/-X

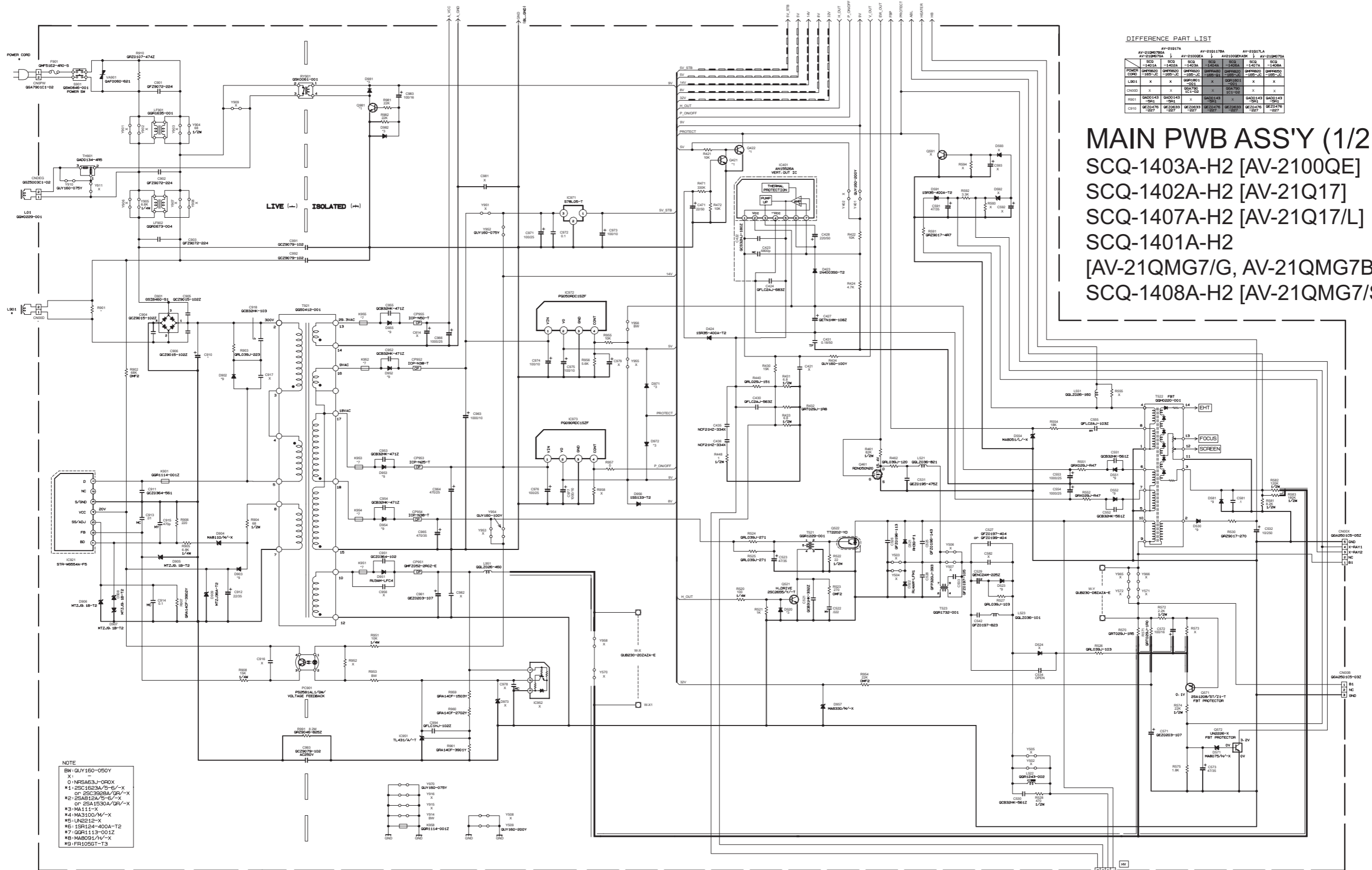
DIFFERENCE PART LIST

AV-2100QE	AV-21Q17	AV-21Q17/L	AV-21QMG7/G	AV-21QMG7B/G	AV-21QMG7/S
IC701	SCQ-1403A-H2	SCQ-1403A-H2	SCQ-1403A-H2	SCQ-1403A-H2	SCQ-1403A-H2
IC702	AT24C08A16PLUG.7	AT24C08A16PLUG.7	AT24C08A16PLUG.7	AT24C08A16PLUG.7	AT24C08A16PLUG.7
IC703	NFR3387-1.6	NFR3387-1.6	NFR3387-1.6	NFR3387-1.6	NFR3387-1.6
IC704	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC705	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC706	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC707	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC708	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC709	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC710	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC711	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC712	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC713	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC714	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC715	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC716	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC717	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC718	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC719	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC720	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC721	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC722	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC723	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC724	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC725	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC726	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC727	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC728	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC729	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC730	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC731	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC732	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC733	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC734	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC735	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC736	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC737	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC738	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC739	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC740	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC741	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC742	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC743	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC744	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC745	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC746	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC747	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC748	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC749	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC750	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC751	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC752	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC753	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC754	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC755	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC756	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC757	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC758	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC759	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V
IC760	GFL18010V	GFL18010V	GFL18010V	GFL18010V	GFL18010V

## MAIN PWB ASS'Y (1/2)

SCQ-1403A-H2 [AV-2100QE]  
 SCQ-1402A-H2 [AV-21Q17]  
 SCQ-1407A-H2 [AV-21Q17/L]  
 SCQ-1401A-H2  
 [AV-21QMG7/G, AV-21QMG7B/G]  
 SCQ-1408A-H2 [AV-21QMG7/S]

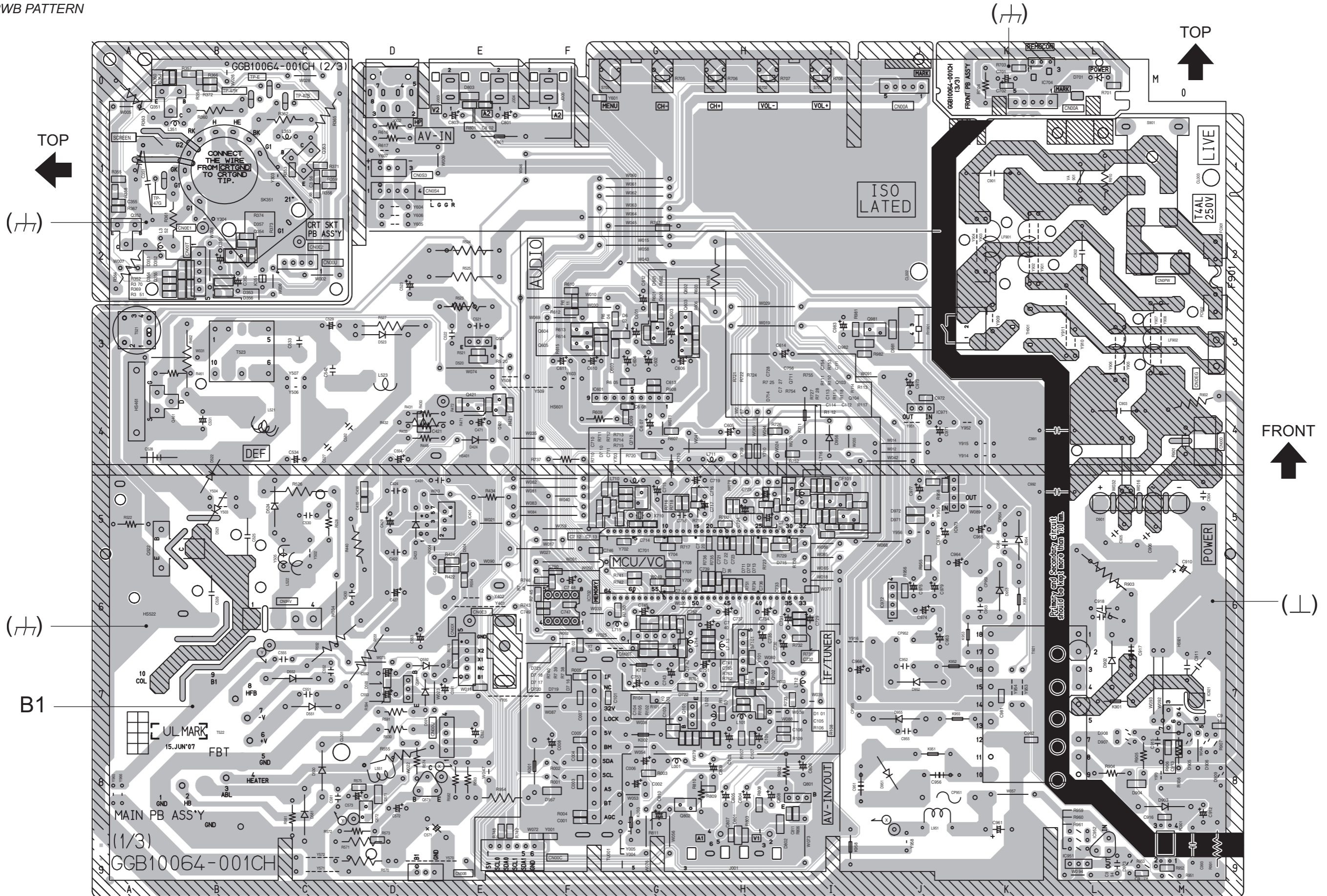
NOTE) 1. Refer to the part list for the part number of IC701 and IC702.  
 2. Refer to page 2-xx for voltages of this circuit diagram.  
 3. Refer to page 2-xx for waveforms of this circuit diagram.



NOTE  
 BW: GUY160-050Y  
 X1: Q1NRS63J-CR0X  
 #1: 25C1623A/B-E-X  
 or 25C3808A/GR-V-X  
 #2: 25A812A/B-E-X  
 or 25A1530A/GR-V-X  
 #3: MA111-X  
 #4: MA3100/M-X  
 #5: UNB212-X  
 #6: 15R124-400A-T2  
 #7: GQR1113-001Z  
 #8: MAB091/M-X  
 #9: FR105G1-T3

NOTE) 1. Refer to page 2-xx for voltages of this circuit diagram.  
 2. Refer to page 2-xx for waveforms of this circuit diagram.

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







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(No.YA552)

# PARTS LIST

## CAUTION

- The parts identified by the  $\Delta$  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

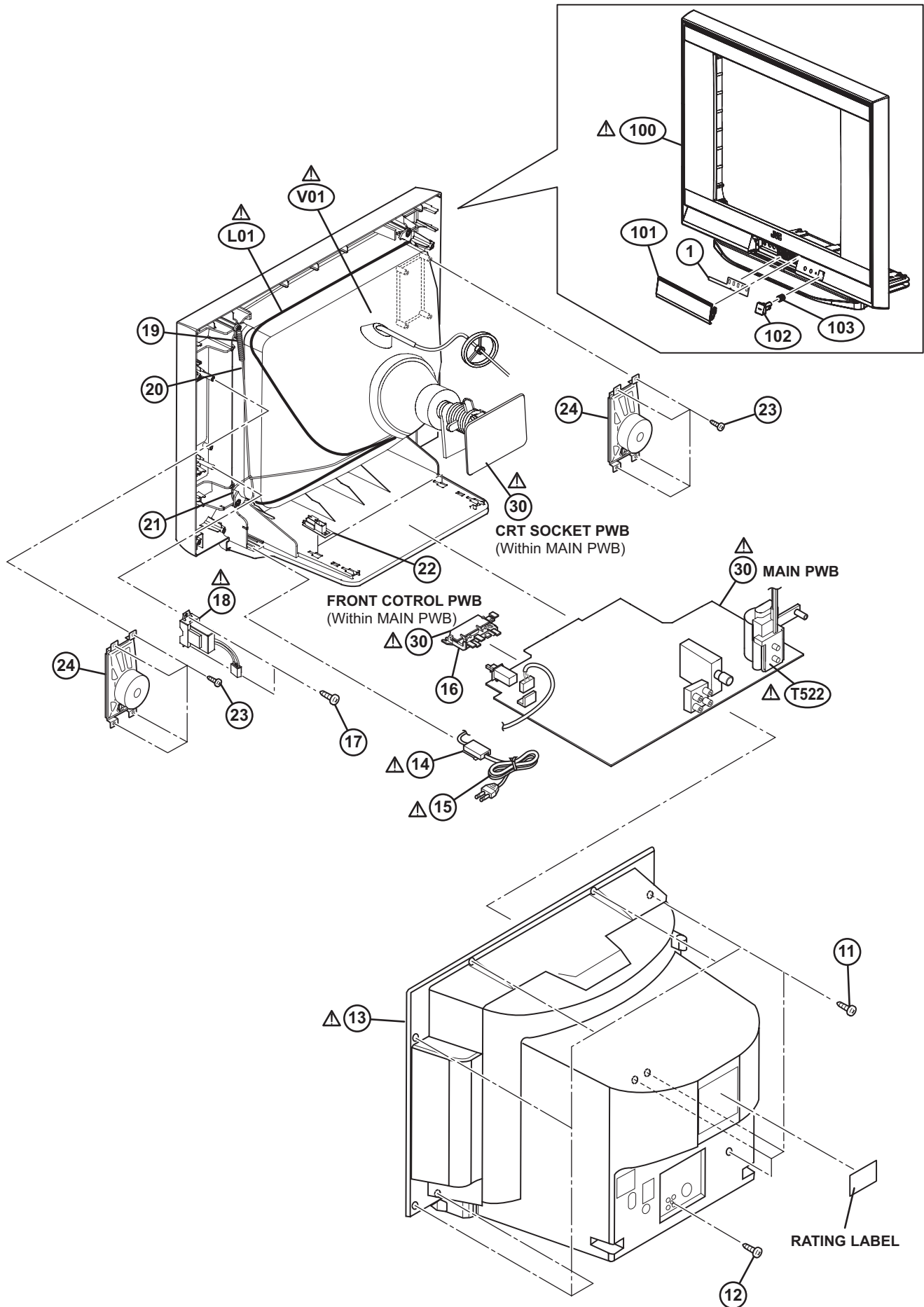
P.W.B ASS'Y name	AV-2100QE	AV-21Q17	AV-21Q17/L	AV-21QMG7/S	AV-21QMG7/G	AV-21QMG7B/G
MAIN P.W.B	SCQ-1403A-H2	SCQ-1402A-H2	SCQ-1407A-H2	SCQ-1408A-H2	SCQ-1401A-H2	←
REMOTE CONTROL UNIT	RM-C1150-1H	←	←	←	←	←

# EXPLODED VIEW PARTS LIST

△ Ref.No.	Part No.	Part Name	Description	Local
△ V01	A51QGV991X001	PICTURE TUBE(ITC)	Inc.DEF YOKE/PC MAGNET	
△ L01	QQW0229-001	DEG COIL		
△ T522	QQH0220-001	FB TRANSF		
1	GG30174-002A-H	OPERATION SHEET		
11	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x9)	
12	QYSBSF3010ZA	TAP SCREW	M3 x 10mm	
△ 13	GG10482-002A-H	REAR COVER		
△ 14	CM47005-A01-H	POWER CORD CLAMP		
△ 15	QMPPR820-165-JC	POWER CORD	1.65m BLACK	AV-2100QE,AV-21Q17,AV-21Q17L,AV-21QMG7G,AV-21QMG7BG
△ 15	QMPPR650-165-JC	POWER CORD	1.65m BLACK	AV-21QMG7S
16	GG30119-001B-H	SUB PCB HOLDER		
17	QYSBSF4012ZA	TAP SCREW	M4 x 12mm(x2)	AV-2100QE
△ 18	QQR1801-001	CHOKE COIL		AV-2100QE
19	A48457-3-H	SPRING		
20	WJY0008-002A-E	E-BRAIDED ASSY		
21	WJY0013-003A-E	E-BRAIDED ASSY		
22	GG30151-001B-H	CHASSIS RAIL	(x2)	
23	QYSBSF4012ZA	TAP SCREW	M4 x 12mm(x4)	
24	QAS0152-001	SPEAKER	SP01/SP02(x2)	AV-2100QE,AV-21QMG7G,AV-21QMG7BG
24	QAS0544-001	SPEAKER	SP01/SP02(x2)	AV-21Q17,AV-21Q17L,AV-21QMG7S
△ 30	SCQ-1403A-H2	MAIN PWB		AV-2100QE
△ 30	SCQ-1402A-H2	MAIN PWB		AV-21Q17
△ 30	SCQ-1407A-H2	MAIN PWB		AV-21Q17L
△ 30	SCQ-1401A-H2	MAIN PWB		AV-21QMG7G,AV-21QMG7BG
△ 30	SCQ-1408A-H2	MAIN PWB		AV-21QMG7S
△ 100	GG10478-009A-H	FRONT CABINET ASSY	Inc.101-103	AV-2100QE,AV-21Q17,AV-21Q17L,AV-21QMG7G,AV-21QMG7S
△ 100	GG10478-010A-H	FRONT CABINET ASSY	Inc.101-103	AV-21QMG7BG
101	GG20159-001C-H	DOOR		AV-2100QE,AV-21Q17,AV-21Q17L,AV-21QMG7G,AV-21QMG7S
101	GG20159-002A-H	DOOR		AV-21QMG7BG
102	GG30173-001A-H	POWER KNOB		AV-2100QE,AV-21Q17,AV-21Q17L,AV-21QMG7G,AV-21QMG7S
102	GG30173-002A-H	POWER KNOB		AV-21QMG7BG
103	CM35235-003-H	SPRING		



# EXPLODED VIEW



# PRINTED WIRING BOARD PARTS LIST [AV-2100QE]

## MAIN P.W. BOARD ASS'Y (SCQ-1403A-H2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC401	AN15526A	IC		D955	FR105GT-T3	SI DIODE	
IC601	AN5279	IC		D956	1SS133-T2	SI DIODE	
IC701	A8897CPBNG-6RJ3	IC(MCU)	(SERVICE)	D957	MA8330/M-X	Z DIODE	
IC702	ATE08-14UMG7	IC	(SERVICE)	D971	MA111-X	SI DIODE	
IC704	GP1UE281QKVF	IR DETECT UNIT		D972	MA111-X	SI DIODE	
IC921	STR-W6554A-F5	IC		D981	MA111-X	SI DIODE	
IC951	TL431/A-T	IC		D982	MA111-X	SI DIODE	
IC971	S78L05-T	IC		C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC972	PQ050RDA1SZ	IC		C002	QETN1HM-336Z	E CAPACITOR	33uF 50V M
IC973	PQ090RDA1SSH	IC		C005	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q101	2SC5397/CD-T	TRANSISTOR		C006	QETN1AM-477Z	E CAPACITOR	470uF 10V M
Q102	UN2212-X	DIGI TRANSISTOR		C007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q103	2SA812A/5-6/-X	TRANSISTOR		C008	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q104	2SC1623A/5-6/-X	TRANSISTOR		C101	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q351	2SC4212/Z1/	TRANSISTOR		C102	QETN1EM-476Z	E CAPACITOR	47uF 25V M
Q352	2SC4212/Z1/	TRANSISTOR		C103	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q353	2SC4212/Z1/	TRANSISTOR		C104	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q354	2SA812A/5-6/-X	TRANSISTOR		C105	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q421	2SC1623A/5-6/-X	TRANSISTOR		C106	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q422	2SC1623A/5-6/-X	TRANSISTOR		C107	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
Q461	RDN050N20	POWER MOS FET		C108	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q521	2SC2655/Y-T	TRANSISTOR		C109	QETN1CM-477Z	E CAPACITOR	470uF 16V M
Q522	TT2202-YD	POW TRANSISTOR		C351	QFZ0097-103	MM CAPACITOR	0.01uF 1250V K
Q571	2SA1208/ST/Z1-T	TRANSISTOR		C352	QETN1CM-477Z	E CAPACITOR	470uF 16V M
Q572	UN2226-X	DIGI TRANSISTOR		C354	NDC31HJ-331X	C CAPACITOR	330pF 50V J
Q601	2SA812A/5-6/-X	TRANSISTOR		C355	NDC31HJ-271X	C CAPACITOR	270pF 50V J
Q602	2SA812A/5-6/-X	TRANSISTOR		C356	NDC31HJ-391X	C CAPACITOR	390pF 50V J
Q603	DTC323TK-X	DIGI TRANSISTOR		C357	QETN1AM-477Z	E CAPACITOR	470uF 10V M
Q604	2SC1623A/5-6/-X	TRANSISTOR		C422	QCS32HJ-180Z	C CAPACITOR	18pF 500V J
Q605	2SC1623A/5-6/-X	TRANSISTOR		C423	NCB31HK-682X	C CAPACITOR	6800pF 50V K
Q710	2SA812A/5-6/-X	TRANSISTOR		C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J
Q711	2SA812A/5-6/-X	TRANSISTOR		C427	QETM1HM-108	E CAPACITOR	1000uF 50V M
Q801	KTA1267/YG-T	TRANSISTOR		C428	QETN1HM-227Z	E CAPACITOR	220uF 50V M
Q802	UN2226-X	DIGI TRANSISTOR		C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J
Q981	2SC1623A/5-6/-X	TRANSISTOR		C431	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J
D101	1SS355W-X	DIODE		C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
D354	MA111-X	SI DIODE		C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
D355	MA111-X	SI DIODE		C471	QETN1HM-226Z	E CAPACITOR	22uF 50V M
D356	MA111-X	SI DIODE		C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K
D357	MA111-X	SI DIODE		C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J
D423	1N4003SG-T2	SI DIODE		C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M
D424	1SR35-400A-T2	SI DIODE		C525	QFZ0196-143	MPP CAPACITOR	0.014uF 1.5kV H
D520	MA111-X	SI DIODE		C526	QFZ0196-113	MPP CAPACITOR	0.011uF 1.5kV H
D521	RH3G-F1	SI DIODE		C527	QFZ0197-404	MPP CAPACITOR	0.4uF 250V J
D522	RU4AM-LFM1	SI DIODE		C528	QFP32GJ-393	PP CAPACITOR	0.039uF 400V J
D523	FR105GT-T3	SI DIODE		C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M
D530	FR105GT-T3	SI DIODE		C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K
D551	FR105GT-T3	SI DIODE		C531	QEZO195-475Z	BP E CAPACITOR	4.7uF 50V M
D552	FR105GT-T3	SI DIODE		C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M
D554	MA8091/H/-X	Z DIODE		C533	QFZ0197-105	MPP CAPACITOR	1uF 250V J
D571	MA8075/H/-X	Z DIODE		C542	QFZ0197-823	MPP CAPACITOR	0.082uF 250V J
D581	FR105GT-T3	SI DIODE		C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K
D591	1SR35-400A-T2	SI DIODE		C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K
D601	MA111-X	SI DIODE		C553	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
D602	MA111-X	SI DIODE		C554	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
D603	MA111-X	SI DIODE		C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J
D701	MPR3338ST-T16	LED	POWER	C571	QEZO203-107	E CAPACITOR	100uF 160V M
D710	MA8039/H/-X	Z DIODE		C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D711	MA8091/H/-X	Z DIODE		C573	QETN1VM-476Z	E CAPACITOR	47uF 35V M
D712	MA8091/H/-X	Z DIODE		C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
D713	MA8091/H/-X	Z DIODE		C591	QETN1VM-476Z	E CAPACITOR	47uF 35V M
D714	MA111-X	SI DIODE		C601	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D715	MA8091/H/-X	Z DIODE		C603	QETN1HM-105Z	E CAPACITOR	1uF 50V M
D716	MA8051/M/-X	Z DIODE		C604	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D717	MA8051/M/-X	Z DIODE		C605	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D718	MA8051/M/-X	Z DIODE		C606	QETN1HM-107Z	E CAPACITOR	100uF 50V M
D719	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	C607	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D720	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	C608	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D721	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	C609	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D722	MA111-X	SI DIODE		C610	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D901	GSIB460-S1	BRIDGE DIODE		C611	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D902	FR105GT-T3	SI DIODE		C701	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D903	FR105GT-T3	SI DIODE		C702	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
D904	MA8110/M/-X	Z DIODE		C710	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D905	MTZJ9.1B-T2	Z DIODE		C711	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D906	MTZJ9.1B-T2	Z DIODE		C712	NDC31HJ-220X	C CAPACITOR	22pF 50V J
D907	MTZJ9.1B-T2	Z DIODE		C713	NDC31HJ-220X	C CAPACITOR	22pF 50V J
D908	MTZJ9.1B-T2	Z DIODE		C714	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D909	MTZJ36A-T2	Z DIODE		C715	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D951	RU3AM-LFC4	SI DIODE		C716	NCB31HK-822X	C CAPACITOR	8200pF 50V K
D952	FR105GT-T3	SI DIODE		C717	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M
D953	FR105GT-T3	SI DIODE		C718	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J
D954	FR105GT-T3	SI DIODE		C719	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
				C720	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C721	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C723	NCB31HK-103X	C CAPACITOR	0.01uF 50V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C724	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R358	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C725	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R359	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R360	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
C727	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R361	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
C728	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R362	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
C729	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R363	QRL029J-123	OMF RESISTOR	12kΩ 2W J
C730	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R364	QRL029J-123	OMF RESISTOR	12kΩ 2W J
C731	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	R365	QRL029J-123	OMF RESISTOR	12kΩ 2W J
C732	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R366	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J
C733	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R367	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J
C734	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R368	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J
C735	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R373	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R374	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C737	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R421	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C738	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R422	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C739	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	R424	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C740	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R430	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C741	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R431	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R432	QRT029J-1R8	MF RESISTOR	1.8Ω 2W J
C744	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R433	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J
C745	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R440	QRL029J-151	OMF RESISTOR	150Ω 2W J
C747	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
C748	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R461	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
C754	NDC21HJ-100X	C CAPACITOR	10pF 50V J	R462	QRL039J-120	OMF RESISTOR	12Ω 3W J
C755	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R471	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J
C801	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R472	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C803	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R520	QRE141J-101Y	C RESISTOR	100Ω 1/4W J
C804	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R521	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C805	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
C808	QETN1AM-477Z	E CAPACITOR	470uF 10V M	R523	QRL029J-271	OMF RESISTOR	270Ω 2W J
C809	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R524	QRL039J-271	OMF RESISTOR	270Ω 3W J
C810	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R525	QRL039J-271	OMF RESISTOR	270Ω 3W J
△C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R526	QRL039J-103	OMF RESISTOR	10kΩ 3W J
△C902	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R527	QRL039J-103	OMF RESISTOR	10kΩ 3W J
△C903	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
△C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	△R530	QRZ9017-270	FUSI RESISTOR	27Ω 1/4W J
△C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R551	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
△C906	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R552	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
C910	QEZO633-227	E CAPACITOR	220uF 450V M	R554	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C911	QCZ0364-561	C CAPACITOR	560pF 2kV K	R570	QRT029J-1R5	MF RESISTOR	1.5Ω 2W J
C912	QETN1VM-226Z	E CAPACITOR	22uF 35V M	R571	QRT029J-1R0	MF RESISTOR	1Ω 2W J
C913	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R572	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
C914	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R574	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
C915	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J	R575	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C918	QCB32HK-103	C CAPACITOR	0.01uF 500V K	R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
C951	QCZ0364-102	C CAPACITOR	1000pF 2kV K	R582	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J
C952	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
C953	QCB32HK-471Z	C CAPACITOR	470pF 500V K	△R591	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
C954	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R592	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C955	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R602	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
C961	QEZO203-107	E CAPACITOR	100uF 160V M	R603	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C963	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	R604	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C964	QETN1EM-477Z	E CAPACITOR	470uF 25V M	R605	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C965	QETN1VM-477Z	E CAPACITOR	470uF 35V M	R606	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C966	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R607	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C971	QETN1EM-107Z	E CAPACITOR	100uF 25V M	R608	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C972	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R609	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
C973	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C974	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R612	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
C975	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R613	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C976	QETN1EM-107Z	E CAPACITOR	100uF 25V M	R614	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C977	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	R615	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C981	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R616	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
C983	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R617	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
△C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R618	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J
△C992	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R701	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
△C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C994	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J	R704	QRE121J-560Y	C RESISTOR	56Ω 1/2W J
				R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R001	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	R706	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R002	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	R707	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R003	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R708	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R004	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R710	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R711	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R101	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R712	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R102	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R713	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R103	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R714	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R104	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R715	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R716	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R106	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R718	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R107	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R719	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R720	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R109	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R351	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R722	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R352	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R723	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R353	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R724	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R354	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R355	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R726	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R356	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R727	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R357	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R729	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R730	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K953	QQR1113-001Z	FERRITE BEADS	
R732	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	K954	QQR1113-001Z	FERRITE BEADS	
R733	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K955	QQR1113-001Z	FERRITE BEADS	
R734	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	K958	QQR1114-001Z	FERRITE BEADS	
R736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	△LF901	QQR1635-001	LINE FILTER	
R737	QRE121J-271Y	C RESISTOR	270Ω 1/2W J	△LF902	QQR0673-004	LINE FILTER	
R738	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△PC901	PS2581AL1/QW/	PHOTO COUPLER	
R739	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△RY901	QSK0061-001	RELAY	
R740	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	S701	QSW0619-003Z	PUSH SWITCH	VOL+
R741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S702	QSW0619-003Z	PUSH SWITCH	VOL-
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S703	QSW0619-003Z	PUSH SWITCH	CH+
R743	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S704	QSW0619-003Z	PUSH SWITCH	CH-
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S705	QSW0619-003Z	PUSH SWITCH	MENU
R745	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	△S901	QSW0846-001	PUSH SWITCH	POWER
R746	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	SF101	QAX0921-001	SAW FILTER	
R747	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	△SK351	QNZ0536-002	CRT SOCKET	
R750	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	△TH901	QAD0134-4R5	P THERMISTOR	4.5Ω
R751	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	TU001	QAU0466-002	TUNER	
R752	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	△VA901	QAF0060-621	VARISTOR	620V
R753	NRSA63J-100X	MG RESISTOR	100Ω 1/16W J	X710	QAX0717-001Z	CRYSTAL	8.000MHz
R754	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R760	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J				
R761	QRE141J-105Y	C RESISTOR	1MΩ 1/4W J				
R762	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J				
R763	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J				
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R802	QRE121J-221Y	C RESISTOR	220Ω 1/2W J				
R803	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R806	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R808	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R809	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J				
R810	QRE121J-181Y	C RESISTOR	180Ω 1/2W J				
R811	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R902	QRL029J-683	OMF RESISTOR	68kΩ 2W J				
R903	QRL039J-223	OMF RESISTOR	22kΩ 3W J				
R904	QRE121J-680Y	C RESISTOR	68Ω 1/2W J				
R905	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J				
R906	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R907	QRA14CF-3902Y	CMF RESISTOR	39kΩ 1/4W F				
R908	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J				
△R910	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K				
R951	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J				
R954	QRL029J-223	OMF RESISTOR	22kΩ 2W J				
R955	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R956	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J				
R957	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R959	QRA14CF-1503Y	CMF RESISTOR	150kΩ 1/4W F				
R960	QRA14CF-2702Y	CMF RESISTOR	27kΩ 1/4W F				
R961	QRA14CF-3901Y	CMF RESISTOR	3.9kΩ 1/4W F				
R981	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R982	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
△R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K				
L001	QQL244J-4R7Z	P COIL	4.7uH J				
L101	QQL244J-4R7Z	P COIL	4.7uH J				
L102	QQL244J-2R2Z	PEAKING COIL	2.2uH J				
L521	QQLZ036-821	COIL	820uH K				
L522	QQR1243-002	LINEARITY COIL					
L523	QQLZ036-101	COIL	100uH K				
L551	QQLZ026-160	COIL	16uH				
L710	QQL231J-100Y	COIL	10uH J				
L711	QQL244J-100Z	COIL	10uH J				
L713	QQL231J-100Y	COIL	10uH J				
L714	QQL231J-120Y	COIL	12uH J				
L715	QQL231J-100Y	COIL	10uH J				
L716	QQL244K-560Z	PEAKING COIL	56uH K				
L951	QQLZ026-460	COIL	46uH				
△T521	QQR1229-001	DRIVE TRANSF					
△T523	QQR1732-001	PIN TRANSF					
△T921	QQS0412-001	SW TRANSF					
CN00A	QJL001-050600-E	SIN CR B-B WIRE					
CN00T	QJL001-052616-E	SIN CR B-B WIRE					
CN00U	QJL001-042616-E	SIN CR B-B WIRE					
CN0E1	QUB130-30A6AS-E	SIN TWIST WIRE					
△CP951	QMFZ052-2R0Z-E	FUSE	2A				
△CP952	ICP-N38-T	IC PROTECTOR	1.5A				
△CP953	ICP-N25-T	IC PROTECTOR	1.0A				
△CP954	ICP-N38-T	IC PROTECTOR	1.5A				
△CP955	ICP-N50-T	IC PROTECTOR	2.0A				
△F901	QMF51E2-4R0-S	FUSE	4A AC250V				
J001	QNN0384-001	PIN JACK	VIDEO,AUDIO IN/OUT(REAR)				
J002	QNS0197-001	3.5 JACK	HEADPHONE				
J003	QNN0706-001	PIN JACK	VIDEO IN(FRONT)				
J004	QNN0706-002	PIN JACK	AUDIO IN(FRONT)				
K001	QQR1114-001Z	FERRITE BEADS					
K712	QQR1113-001Z	FERRITE BEADS					
K901	QQR1114-001Z	FERRITE BEADS					
K951	QQR1113-001Z	FERRITE BEADS					
K952	QQR1113-001Z	FERRITE BEADS					

# PRINTED WIRING BOARD PARTS LIST [AV-21Q17]

## MAIN P.W. BOARD ASS'Y (SCQ-1402A-H2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
				D955	FR105GT-T3	SI DIODE	
				D956	1SS133-T2	SI DIODE	
				D957	MA8330/M-X	Z DIODE	
				D971	MA111-X	SI DIODE	
				D972	MA111-X	SI DIODE	
			(SERVICE)	D981	MA111-X	SI DIODE	
			(SERVICE)	D982	MA111-X	SI DIODE	
IC401	AN15526A	IC		C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC601	AN5279	IC		C002	QETN1HM-336Z	E CAPACITOR	33uF 50V M
IC701	A8897CPBNG-6RJ3	IC(MCU)		C005	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC702	ATE08-14UMG7	IC		C006	QETN1AM-477Z	E CAPACITOR	470uF 10V M
IC704	GP1UE281QKVF	IR DETECT UNIT		C007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC921	STR-W6554A-F5	IC		C008	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC951	TL431/A-T	IC		C101	NCB31HK-472X	C CAPACITOR	4700pF 50V K
IC971	S78L05-T	IC		C102	QETN1EM-476Z	E CAPACITOR	47uF 25V M
IC972	PQ050RDC1S2F	IC		C103	NCB31HK-472X	C CAPACITOR	4700pF 50V K
IC973	PQ090RDA1SSH	IC		C104	NCB31HK-472X	C CAPACITOR	4700pF 50V K
				C105	NCB31HK-472X	C CAPACITOR	4700pF 50V K
				C106	NCB31HK-472X	C CAPACITOR	4700pF 50V K
				C107	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
				C108	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C109	QETN1CM-477Z	E CAPACITOR	470uF 16V M
				C111	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
				C112	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
				C113	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
				C351	QFZ0097-103	MM CAPACITOR	0.01uF 1250V K
				C352	QETN1CM-477Z	E CAPACITOR	470uF 16V M
				C354	NDC31HJ-331X	C CAPACITOR	330pF 50V J
				C355	NDC31HJ-271X	C CAPACITOR	270pF 50V J
				C356	NDC31HJ-391X	C CAPACITOR	390pF 50V J
				C357	QETN1AM-477Z	E CAPACITOR	470uF 10V M
				C422	QCS32HJ-180Z	C CAPACITOR	18pF 500V J
				C423	NCB31HK-682X	C CAPACITOR	6800pF 50V K
				C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J
				C427	QETM1HM-108	E CAPACITOR	1000uF 50V M
				C428	QETN1HM-227Z	E CAPACITOR	220uF 50V M
				C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J
				C431	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J
				C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
				C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
				C471	QETN1HM-226Z	E CAPACITOR	22uF 50V M
				C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K
				C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J
				C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M
				C525	QFZ0196-143	MPP CAPACITOR	0.014uF 1.5kV H
				C526	QFZ0196-113	MPP CAPACITOR	0.011uF 1.5kV H
				C527	QFZ0197-404	MPP CAPACITOR	0.4uF 250V J
				C528	QFP32GJ-393	PP CAPACITOR	0.039uF 100V J
				C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 400V M
				C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K
				C531	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M
				C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M
				C533	QFZ0197-105	MPP CAPACITOR	1uF 250V J
				C542	QFZ0197-823	MPP CAPACITOR	0.082uF 250V J
				C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K
				C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K
				C553	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
				C554	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
				C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J
				C571	QEZ0203-107	E CAPACITOR	100uF 160V M
				C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M
				C573	QETN1VM-476Z	E CAPACITOR	47uF 35V M
				C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
				C591	QETN1VM-476Z	E CAPACITOR	47uF 35V M
				C601	QETN1CM-107Z	E CAPACITOR	100uF 16V M
				C603	QETN1HM-105Z	E CAPACITOR	1uF 50V M
				C604	QETN1HM-106Z	E CAPACITOR	10uF 50V M
				C605	QETN1HM-106Z	E CAPACITOR	10uF 50V M
				C606	QETN1HM-107Z	E CAPACITOR	100uF 50V M
				C607	QETN1HM-106Z	E CAPACITOR	10uF 50V M
				C608	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
				C609	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
				C610	QETN1HM-106Z	E CAPACITOR	10uF 50V M
				C611	QETN1CM-477Z	E CAPACITOR	470uF 16V M
				C701	QETN1CM-107Z	E CAPACITOR	100uF 16V M
				C702	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
				C710	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C711	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C712	NDC31HJ-220X	C CAPACITOR	22pF 50V J
				C713	NDC31HJ-220X	C CAPACITOR	22pF 50V J
				C714	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C715	QETN1CM-107Z	E CAPACITOR	100uF 16V M
				C716	NCB31HK-822X	C CAPACITOR	8200pF 50V K
				C717	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M
				C718	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J
				C719	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
Q101	2SC5397/CD/-T	TRANSISTOR					
Q102	UN2212-X	DIGI TRANSISTOR					
Q103	2SA812A/5-6/-X	TRANSISTOR					
Q104	2SC1623A/5-6/-X	TRANSISTOR					
Q351	2SC4212/Z1/	TRANSISTOR					
Q352	2SC4212/Z1/	TRANSISTOR					
Q353	2SC4212/Z1/	TRANSISTOR					
Q354	2SA812A/5-6/-X	TRANSISTOR					
Q421	2SC1623A/5-6/-X	TRANSISTOR					
Q422	2SC1623A/5-6/-X	TRANSISTOR					
Q461	RDN050N20	POWER MOS FET					
Q521	2SC2655/Y/-T	TRANSISTOR					
Q522	TT2202-YD	POW TRANSISTOR					
Q571	2SA1208/ST/Z1-T	TRANSISTOR					
Q572	UN2226-X	DIGI TRANSISTOR					
Q601	2SA812A/5-6/-X	TRANSISTOR					
Q602	2SA812A/5-6/-X	TRANSISTOR					
Q603	DTC323TK-X	DIGI TRANSISTOR					
Q604	2SC1623A/5-6/-X	TRANSISTOR					
Q605	2SC1623A/5-6/-X	TRANSISTOR					
Q710	2SA812A/5-6/-X	TRANSISTOR					
Q711	2SA812A/5-6/-X	TRANSISTOR					
Q801	KTA1267/YG/-T	TRANSISTOR					
Q802	UN2226-X	DIGI TRANSISTOR					
Q981	2SC1623A/5-6/-X	TRANSISTOR					
D101	1SS355W-X	DIODE					
D354	MA111-X	SI DIODE					
D355	MA111-X	SI DIODE					
D356	MA111-X	SI DIODE					
D357	MA111-X	SI DIODE					
D423	1N4003SG-T2	SI DIODE					
D424	1SR35-400A-T2	SI DIODE					
D520	MA111-X	SI DIODE					
D521	RH3G-F1	SI DIODE					
D522	RU4AM-LFM1	SI DIODE					
D523	FR105GT-T3	SI DIODE					
D530	FR105GT-T3	SI DIODE					
D551	FR105GT-T3	SI DIODE					
D552	FR105GT-T3	SI DIODE					
D554	MA8091/H/-X	Z DIODE					
D571	MA8075/H/-X	Z DIODE					
D581	FR105GT-T3	SI DIODE					
D591	1SR35-400A-T2	SI DIODE					
D601	MA111-X	SI DIODE					
D602	MA111-X	SI DIODE					
D603	MA111-X	SI DIODE					
D701	MPPR3338ST-T16	LED	POWER				
D710	MA8039/H/-X	Z DIODE					
D711	MA8091/H/-X	Z DIODE					
D712	MA8091/H/-X	Z DIODE					
D713	MA8091/H/-X	Z DIODE					
D714	MA111-X	SI DIODE					
D715	MA8091/H/-X	Z DIODE					
D716	MA8051/M/-X	Z DIODE					
D717	MA8051/M/-X	Z DIODE					
D718	MA8051/M/-X	Z DIODE					
D719	NRSA02J-OR0X	MG RESISTOR	0Ω 1/10W J				
D720	NRSA02J-OR0X	MG RESISTOR	0Ω 1/10W J				
D721	NRSA02J-OR0X	MG RESISTOR	0Ω 1/10W J				
D722	MA111-X	SI DIODE					
D901	GSIB460-S1	BRIDGE DIODE					
D902	FR105GT-T3	SI DIODE					
D903	FR105GT-T3	SI DIODE					
D904	MA8110/M/-X	Z DIODE					
D905	MTZJ9.1B-T2	Z DIODE					
D906	MTZJ9.1B-T2	Z DIODE					
D907	MTZJ9.1B-T2	Z DIODE					
D908	MTZJ9.1B-T2	Z DIODE					
D909	MTZJ36A-T2	Z DIODE					
D951	RU3AM-LFC4	SI DIODE					
D952	FR105GT-T3	SI DIODE					
D953	FR105GT-T3	SI DIODE					
D954	FR105GT-T3	SI DIODE					

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C720	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R114	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
C721	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R115	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
C723	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R117	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C724	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R118	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C725	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R351	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R352	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C727	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R353	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C728	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R354	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C729	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R355	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C730	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R356	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C731	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	R357	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C732	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R358	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C733	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R359	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C734	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R360	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
C735	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R361	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R362	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
C737	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R363	QRL029J-123	OMF RESISTOR	12kΩ 2W J
C738	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R364	QRL029J-123	OMF RESISTOR	12kΩ 2W J
C739	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	R365	QRL029J-123	OMF RESISTOR	12kΩ 2W J
C740	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R366	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J
C741	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R367	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R368	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J
C744	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R373	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C745	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R374	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C747	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R421	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C748	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R422	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C754	NDC21HJ-100X	C CAPACITOR	10pF 50V J	R424	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C755	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R430	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C801	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R431	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J
C803	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R432	QRT029J-1R8	MF RESISTOR	1.8Ω 2W J
C804	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R433	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J
C805	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R440	QRL029J-151	OMF RESISTOR	150Ω 2W J
C808	QETN1AM-477Z	E CAPACITOR	470uF 10V M	R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
C809	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R461	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
C810	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R462	QRL039J-120	OMF RESISTOR	12Ω 3W J
△C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R471	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J
△C902	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R472	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
△C903	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R520	QRE141J-101Y	C RESISTOR	100Ω 1/4W J
△C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R521	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
△C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
△C906	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R523	QRL029J-271	OMF RESISTOR	270Ω 2W J
C910	QEZO633-227	E CAPACITOR	220uF 450V M	R524	QRL039J-271	OMF RESISTOR	270Ω 3W J
C911	QCZ0364-561	C CAPACITOR	560pF 2kV K	R525	QRL039J-271	OMF RESISTOR	270Ω 3W J
C912	QETN1VM-226Z	E CAPACITOR	22uF 35V M	R526	QRL039J-103	OMF RESISTOR	10kΩ 3W J
C913	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R527	QRL039J-103	OMF RESISTOR	10kΩ 3W J
C914	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
C915	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J	△R530	QRZ9017-270	FUSI RESISTOR	27Ω 1/4W J
C918	QCB32HK-103	C CAPACITOR	0.01uF 500V K	R551	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
C951	QCZ0364-102	C CAPACITOR	1000pF 2kV K	R552	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
C952	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R554	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C953	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R570	QRT029J-1R5	MF RESISTOR	1.5Ω 2W J
C954	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R571	QRT029J-1R0	MF RESISTOR	1Ω 2W J
C955	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R572	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
C961	QEZO203-107	E CAPACITOR	100uF 160V M	R574	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
C963	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	R575	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C964	QETN1EM-477Z	E CAPACITOR	470uF 25V M	R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
C965	QETN1VM-477Z	E CAPACITOR	470uF 35V M	R582	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J
C966	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
C971	QETN1EM-107Z	E CAPACITOR	100uF 25V M	△R591	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
C972	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R592	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C973	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R602	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
C974	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R603	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C975	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R604	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C976	QETN1EM-107Z	E CAPACITOR	100uF 25V M	R605	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C977	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	R606	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C981	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R607	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C983	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R608	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
△C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R609	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
△C992	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
△C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R612	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
C994	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J	R613	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
				R614	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R001	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	R615	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R002	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	R616	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R003	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R617	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R004	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R618	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R701	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R101	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R102	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R704	QRE121J-560Y	C RESISTOR	56Ω 1/2W J
R103	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R104	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R706	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R707	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R106	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R708	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R107	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R710	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R711	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R109	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R712	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R110	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R713	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R111	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R714	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R112	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R715	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R113	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R716	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R718	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	△CP953	ICP-N25-T	IC PROTECTOR	1.0A
R719	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	△CP954	ICP-N38-T	IC PROTECTOR	1.5A
R720	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	△CP955	ICP-N50-T	IC PROTECTOR	2.0A
R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	△F901	QMF51E2-4R0-S	FUSE	4A AC250V
R722	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	J001	QNN0384-001	PIN JACK	VIDEO,AUDIO IN/OUT(REAR)
R723	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	J002	QNS0197-001	3.5 JACK	HEADPHONE
R724	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	J003	QNN0706-001	PIN JACK	VIDEO IN(FRONT)
R725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	J004	QNN0706-002	PIN JACK	AUDIO IN(FRONT)
R726	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K001	QQR1114-001Z	FERRITE BEADS	
R727	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K712	QQR1113-001Z	FERRITE BEADS	
R729	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	K901	QQR1114-001Z	FERRITE BEADS	
R730	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K951	QQR1113-001Z	FERRITE BEADS	
R732	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	K952	QQR1113-001Z	FERRITE BEADS	
R733	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K953	QQR1113-001Z	FERRITE BEADS	
R734	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	K954	QQR1113-001Z	FERRITE BEADS	
R736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	K955	QQR1113-001Z	FERRITE BEADS	
R737	QRE121J-271Y	C RESISTOR	270Ω 1/2W J	K958	QQR1114-001Z	FERRITE BEADS	
R738	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△LF901	QQR1635-001	LINE FILTER	
R739	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△LF902	QQR0673-004	LINE FILTER	
R740	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△PC901	PS2581AL1/QW/	PHOTO COUPLER	
R741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△RY901	QSK0061-001	RELAY	
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S701	QSW0619-003Z	PUSH SWITCH	VOL+
R743	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S702	QSW0619-003Z	PUSH SWITCH	VOL-
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S703	QSW0619-003Z	PUSH SWITCH	CH+
R745	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	S704	QSW0619-003Z	PUSH SWITCH	CH-
R746	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	S705	QSW0619-003Z	PUSH SWITCH	MENU
R747	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	△S901	QSW0846-001	PUSH SWITCH	POWER
R750	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	SF101	QAX0921-001	SAW FILTER	
R751	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	△SK351	QNZ0536-002	CRT SOCKET	
R752	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	△TH901	QAD0134-4R5	P THERMISTOR	4.5Ω
R753	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	TU001	QAU0466-002	TUNER	
R754	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△VA901	QAF0060-621	VARISTOR	620V
R760	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	X710	QAX0717-001Z	CRYSTAL	8.000MHz
R761	QRE141J-105Y	C RESISTOR	1MΩ 1/4W J				
R762	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J				
R763	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J				
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R802	QRE121J-221Y	C RESISTOR	220Ω 1/2W J				
R803	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R806	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R808	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R809	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J				
R810	QRE121J-181Y	C RESISTOR	180Ω 1/2W J				
R811	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R901	QAD0143-5R1	N THERMISTOR	5.1Ω				
R902	QRL029J-683	OMF RESISTOR	68kΩ 2W J				
R903	QRL039J-223	OMF RESISTOR	22kΩ 3W J				
R904	QRE121J-680Y	C RESISTOR	68Ω 1/2W J				
R905	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J				
R906	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R907	QRA14CF-3902Y	CMF RESISTOR	39kΩ 1/4W F				
R908	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J				
△R910	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K				
R951	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J				
R954	QRL029J-223	OMF RESISTOR	22kΩ 2W J				
R955	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R956	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J				
R957	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R959	QRA14CF-1503Y	CMF RESISTOR	150kΩ 1/4W F				
R960	QRA14CF-2702Y	CMF RESISTOR	27kΩ 1/4W F				
R961	QRA14CF-3901Y	CMF RESISTOR	3.9kΩ 1/4W F				
R981	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R982	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
△R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K				
L001	QQL244J-4R7Z	P COIL	4.7uH J				
L101	QQL244J-4R7Z	P COIL	4.7uH J				
L102	QQL244J-2R2Z	PEAKING COIL	2.2uH J				
L521	QQLZ036-821	COIL					
L522	QQR1243-002	LINEARITY COIL					
L523	QQLZ036-101	COIL	100uH K				
L551	QQLZ026-160	COIL	16uH				
L710	QQL231J-100Y	COIL	10uH J				
L711	QQL244J-100Z	COIL	10uH J				
L713	QQL231J-100Y	COIL	10uH J				
L714	QQL231J-120Y	COIL	12uH J				
L715	QQL231J-100Y	COIL	10uH J				
L716	QQL244K-560Z	PEAKING COIL	56uH K				
L951	QQLZ026-460	COIL	46uH				
△T521	QQR1229-001	DRIVE TRANSF					
△T523	QQR1732-001	PIN TRANSF					
△T921	QQS0412-001	SW TRANSF					
CF101	QAX0695-001Z	C FILTER	5.500MHz				
CN00A	QJL001-050600-E	SIN CR B-B WIRE					
CN00T	QJL001-052616-E	SIN CR B-B WIRE					
CN00U	QJL001-042616-E	SIN CR B-B WIRE					
CN0E1	QUB130-30A6AS-E	SIN TWIST WIRE					
△CP951	QMFZ052-2R0Z-E	FUSE	2A				
△CP952	ICP-N38-T	IC PROTECTOR	1.5A				

# PRINTED WIRING BOARD PARTS LIST [AV-21Q17/L]

## MAIN P.W. BOARD ASS'Y (SCQ-1407A-H2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
				D955	FR105GT-T3	SI DIODE	
				D956	1SS133-T2	SI DIODE	
				D957	MA8330/M-X	Z DIODE	
				D971	MA111-X	SI DIODE	
				D972	MA111-X	SI DIODE	
				D981	MA111-X	SI DIODE	
				D982	MA111-X	SI DIODE	
IC401	AN15526A	IC		C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC601	AN5279	IC		C002	QETN1HM-336Z	E CAPACITOR	33uF 50V M
IC701	A8897CPBNG-6RJ3	IC(MCU)	(SERVICE)	C005	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC702	ATE08-14UMG7	IC	(SERVICE)	C006	QETN1AM-477Z	E CAPACITOR	470uF 10V M
IC704	GP1UE281QKVF	IR DETECT UNIT		C007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC921	STR-W6554A-F5	IC		C008	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC951	TL431/A-T	IC		C101	NCB31HK-472X	C CAPACITOR	4700pF 50V K
IC971	S78L05-T	IC		C102	QETN1EM-476Z	E CAPACITOR	47uF 25V M
IC972	PQ050RDA1SZ	IC		C103	NCB31HK-472X	C CAPACITOR	4700pF 50V K
IC973	PQ090RDA1SSH	IC		C104	NCB31HK-472X	C CAPACITOR	4700pF 50V K
				C105	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q101	2SC5397/CD-T	TRANSISTOR		C106	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q102	UN2212-X	DIGI TRANSISTOR		C107	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
Q103	2SA812A/5-6/-X	TRANSISTOR		C108	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q104	2SC1623A/5-6/-X	TRANSISTOR		C109	QETN1CM-477Z	E CAPACITOR	470uF 16V M
Q351	2SC4212/Z1/	TRANSISTOR		C111	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
Q352	2SC4212/Z1/	TRANSISTOR		C112	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
Q353	2SC4212/Z1/	TRANSISTOR		C113	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
Q354	2SA812A/5-6/-X	TRANSISTOR		C351	QFZ0097-103	MM CAPACITOR	0.01uF 1250V K
Q421	2SC1623A/5-6/-X	TRANSISTOR		C352	QETN1CM-477Z	E CAPACITOR	470uF 16V M
Q422	2SC1623A/5-6/-X	TRANSISTOR		C354	NDC31HJ-331X	C CAPACITOR	330pF 50V J
Q461	RDN050N20	POWER MOS FET		C355	NDC31HJ-271X	C CAPACITOR	270pF 50V J
Q521	2SC2655/Y-T	TRANSISTOR		C356	NDC31HJ-391X	C CAPACITOR	390pF 50V J
Q522	TT2202-YD	POW TRANSISTOR		C357	QETN1AM-477Z	E CAPACITOR	470uF 10V M
Q571	2SA1208/ST/Z1-T	TRANSISTOR		C422	QCS32HJ-180Z	C CAPACITOR	18pF 500V J
Q572	UN2226-X	DIGI TRANSISTOR		C423	NCB31HK-682X	C CAPACITOR	6800pF 50V K
Q601	2SA812A/5-6/-X	TRANSISTOR		C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J
Q602	2SA812A/5-6/-X	TRANSISTOR		C427	QETM1HM-108	E CAPACITOR	1000uF 50V M
Q603	DTC323TK-X	DIGI TRANSISTOR		C428	QETN1HM-227Z	E CAPACITOR	220uF 50V M
Q604	2SC1623A/5-6/-X	TRANSISTOR		C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J
Q605	2SC1623A/5-6/-X	TRANSISTOR		C431	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J
Q710	2SA812A/5-6/-X	TRANSISTOR		C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
Q711	2SA812A/5-6/-X	TRANSISTOR		C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
Q801	KTA1267/YG-T	TRANSISTOR		C471	QETN1HM-226Z	E CAPACITOR	22uF 50V M
Q802	UN2226-X	DIGI TRANSISTOR		C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K
Q981	2SC1623A/5-6/-X	TRANSISTOR		C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J
				C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M
D101	1SS355W-X	DIODE		C525	QFZ0196-143	MPP CAPACITOR	0.014uF 1.5kV H
D354	MA111-X	SI DIODE		C526	QFZ0196-113	MPP CAPACITOR	0.011uF 1.5kV H
D355	MA111-X	SI DIODE		C527	QFZ0197-404	MPP CAPACITOR	0.4uF 250V J
D356	MA111-X	SI DIODE		C528	QFP32GJ-393	PP CAPACITOR	0.039uF 400V J
D357	MA111-X	SI DIODE		C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M
D423	1N4003SG-T2	SI DIODE		C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K
D424	1SR35-400A-T2	SI DIODE		C531	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M
D520	MA111-X	SI DIODE		C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M
D521	RH3G-F1	SI DIODE		C533	QFZ0197-105	MPP CAPACITOR	1uF 250V J
D522	RU4AM-LFM1	SI DIODE		C542	QFZ0197-823	MPP CAPACITOR	0.082uF 250V J
D523	FR105GT-T3	SI DIODE		C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K
D530	FR105GT-T3	SI DIODE		C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K
D551	FR105GT-T3	SI DIODE		C553	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
D552	FR105GT-T3	SI DIODE		C554	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
D554	MA8091/H/-X	Z DIODE		C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J
D571	MA8075/H/-X	Z DIODE		C571	QEZ0203-107	E CAPACITOR	100uF 160V M
D581	FR105GT-T3	SI DIODE		C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D591	1SR35-400A-T2	SI DIODE		C573	QETN1VM-476Z	E CAPACITOR	47uF 35V M
D601	MA111-X	SI DIODE		C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
D602	MA111-X	SI DIODE		C591	QETN1VM-476Z	E CAPACITOR	47uF 35V M
D603	MA111-X	SI DIODE		C601	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D701	MPR3338ST-T16	LED	POWER	C603	QETN1HM-105Z	E CAPACITOR	1uF 50V M
D710	MA8039/H/-X	Z DIODE		C604	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D711	MA8091/H/-X	Z DIODE		C605	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D712	MA8091/H/-X	Z DIODE		C606	QETN1HM-107Z	E CAPACITOR	100uF 50V M
D713	MA8091/H/-X	Z DIODE		C607	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D714	MA111-X	SI DIODE		C608	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D715	MA8091/H/-X	Z DIODE		C609	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D716	MA8051/M/-X	Z DIODE		C610	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D717	MA8051/M/-X	Z DIODE		C611	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D718	MA8051/M/-X	Z DIODE		C701	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D719	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	C702	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
D720	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	C710	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D721	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	C711	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D722	MA111-X	SI DIODE		C712	NDC31HJ-220X	C CAPACITOR	22pF 50V J
D901	GSIB460-S1	BRIDGE DIODE		C713	NDC31HJ-220X	C CAPACITOR	22pF 50V J
D902	FR105GT-T3	SI DIODE		C714	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D903	FR105GT-T3	SI DIODE		C715	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D904	MA8110/M/-X	Z DIODE		C716	NCB31HK-822X	C CAPACITOR	8200pF 50V K
D905	MTZJ9.1B-T2	Z DIODE		C717	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M
D906	MTZJ9.1B-T2	Z DIODE		C718	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J
D907	MTZJ9.1B-T2	Z DIODE		C719	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
D908	MTZJ9.1B-T2	Z DIODE					
D909	MTZJ36A-T2	Z DIODE					
D951	RU3AM-LFC4	SI DIODE					
D952	FR105GT-T3	SI DIODE					
D953	FR105GT-T3	SI DIODE					
D954	FR105GT-T3	SI DIODE					



△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C720	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R114	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
C721	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R115	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
C723	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R117	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C724	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R118	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C725	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R351	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R352	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C727	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R353	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C728	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R354	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C729	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R355	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C730	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R356	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C731	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	R357	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C732	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R358	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C733	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R359	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C734	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R360	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
C735	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R361	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R362	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
C737	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R363	QRL029J-123	OMF RESISTOR	12kΩ 2W J
C738	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R364	QRL029J-123	OMF RESISTOR	12kΩ 2W J
C739	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	R365	QRL029J-123	OMF RESISTOR	12kΩ 2W J
C740	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R366	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J
C741	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R367	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R368	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J
C744	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R373	NRSA63J-0R0X	MG RESISTOR	Ω 1/16W J
C745	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R374	NRSA63J-0R0X	MG RESISTOR	Ω 1/16W J
C747	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R421	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C748	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R422	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C754	NDC21HJ-100X	C CAPACITOR	10pF 50V J	R424	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C755	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R430	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C801	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R431	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J
C803	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R432	QRT029J-1R8	MF RESISTOR	1.8Ω 2W J
C804	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R433	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J
C805	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R440	QRL029J-151	OMF RESISTOR	150Ω 2W J
C808	QETN1AM-477Z	E CAPACITOR	470uF 10V M	R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
C809	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R461	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
C810	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R462	QRL039J-120	OMF RESISTOR	12Ω 3W J
△C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R471	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J
△C902	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R472	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
△C903	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R520	QRE141J-101Y	C RESISTOR	100Ω 1/4W J
△C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R521	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
△C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
△C906	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R523	QRL029J-271	OMF RESISTOR	270Ω 2W J
C910	QEZO476-227	E CAPACITOR	220uF 400V M	R524	QRL039J-271	OMF RESISTOR	270Ω 3W J
C911	QCZ0364-561	C CAPACITOR	560pF 2kV K	R525	QRL039J-271	OMF RESISTOR	270Ω 3W J
C912	QETN1VM-226Z	E CAPACITOR	22uF 35V M	R526	QRL039J-103	OMF RESISTOR	10kΩ 3W J
C913	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R527	QRL039J-103	OMF RESISTOR	10kΩ 3W J
C914	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
C915	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J	△R530	QRZ9017-270	FUSI RESISTOR	27Ω 1/4W J
C918	QCB32HK-103	C CAPACITOR	0.01uF 500V K	R551	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
C951	QCZ0364-102	C CAPACITOR	1000pF 2kV K	R552	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
C952	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R554	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C953	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R570	QRT029J-1R5	MF RESISTOR	1.5Ω 2W J
C954	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R571	QRT029J-1R0	MF RESISTOR	1Ω 2W J
C955	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R572	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
C961	QEZO203-107	E CAPACITOR	100uF 160V M	R574	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
C963	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	R575	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C964	QETN1EM-477Z	E CAPACITOR	470uF 25V M	R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
C965	QETN1VM-477Z	E CAPACITOR	470uF 35V M	R582	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J
C966	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
C971	QETN1EM-107Z	E CAPACITOR	100uF 25V M	△R591	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
C972	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R592	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C973	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R602	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
C974	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R603	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C975	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R604	NRSA63J-0R0X	MG RESISTOR	Ω 1/16W J
C976	QETN1EM-107Z	E CAPACITOR	100uF 25V M	R605	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C977	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	R606	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C981	NRSA63J-0R0X	MG RESISTOR	Ω 1/16W J	R607	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C983	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R608	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
△C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R609	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
△C992	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
△C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R612	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
C994	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J	R613	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R001	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	R614	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R002	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	R615	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R003	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R616	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R004	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R617	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R618	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J
R101	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R701	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R102	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R103	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R704	QRE121J-560Y	C RESISTOR	56Ω 1/2W J
R104	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R706	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R106	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R707	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R107	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R708	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R710	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R109	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R711	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R110	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R712	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R111	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R713	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R112	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R714	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R113	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R715	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
				R716	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R718	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	△CP953	ICP-N25-T	IC PROTECTOR	1.0A
R719	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	△CP954	ICP-N38-T	IC PROTECTOR	1.5A
R720	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	△CP955	ICP-N50-T	IC PROTECTOR	2.0A
R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	△F901	QMF51E2-4R0-S	FUSE	4A AC250V
R722	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	J001	QNN0384-001	PIN JACK	VIDEO AUDIO IN/OUT(REAR)
R723	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	J002	QNS0197-001	3.5 JACK	HEADPHONE
R724	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	J003	QNN0706-001	PIN JACK	VIDEO IN(FRONT)
R725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	J004	QNN0706-002	PIN JACK	AUDIO IN(FRONT)
R726	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K001	QQR1114-001Z	FERRITE BEADS	
R727	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K712	QQR1113-001Z	FERRITE BEADS	
R729	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	K901	QQR1114-001Z	FERRITE BEADS	
R730	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K951	QQR1113-001Z	FERRITE BEADS	
R732	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	K952	QQR1113-001Z	FERRITE BEADS	
R733	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K953	QQR1113-001Z	FERRITE BEADS	
R734	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	K954	QQR1113-001Z	FERRITE BEADS	
R736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	K955	QQR1113-001Z	FERRITE BEADS	
R737	QRE121J-271Y	C RESISTOR	270Ω 1/2W J	K958	QQR1114-001Z	FERRITE BEADS	
R738	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△LF901	QQR1635-001	LINE FILTER	
R739	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△LF902	QQR0673-004	LINE FILTER	
R740	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△PC901	PS2581AL1/QW/	PHOTO COUPLER	
R741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△RY901	QSK0061-001	RELAY	
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S701	QSW0619-003Z	PUSH SWITCH	VOL+
R743	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S702	QSW0619-003Z	PUSH SWITCH	VOL-
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S703	QSW0619-003Z	PUSH SWITCH	CH+
R745	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	S704	QSW0619-003Z	PUSH SWITCH	CH-
R746	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	S705	QSW0619-003Z	PUSH SWITCH	MENU
R747	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	△S901	QSW0846-001	PUSH SWITCH	POWER
R750	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	SF101	QAX0921-001	SAW FILTER	
R751	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	△SK351	QNZ0536-002	CRT SOCKET	
R752	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	△TH901	QAD0134-4R5	P THERMISTOR	4.5Ω
R753	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	TU001	QAU0466-002	TUNER	
R754	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△VA901	QAF0060-621	VARISTOR	620V
R760	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	X710	QAX0717-001Z	CRYSTAL	8.000MHz
R761	QRE141J-105Y	C RESISTOR	1MΩ 1/4W J				
R762	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J				
R763	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J				
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R802	QRE121J-221Y	C RESISTOR	220Ω 1/2W J				
R803	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R806	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R808	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R809	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J				
R810	QRE121J-181Y	C RESISTOR	180Ω 1/2W J				
R811	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R901	QAD0143-5R1	N THERMISTOR	5.1Ω				
R902	QRL029J-683	OMF RESISTOR	68kΩ 2W J				
R903	QRL039J-223	OMF RESISTOR	22kΩ 3W J				
R904	QRE121J-680Y	C RESISTOR	68Ω 1/2W J				
R905	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J				
R906	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R907	QRA14CF-3902Y	CMF RESISTOR	39kΩ 1/4W F				
R908	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J				
△R910	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K				
R951	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J				
R954	QRL029J-223	OMF RESISTOR	22kΩ 2W J				
R955	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R956	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J				
R957	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R959	QRA14CF-1503Y	CMF RESISTOR	150kΩ 1/4W F				
R960	QRA14CF-2702Y	CMF RESISTOR	27kΩ 1/4W F				
R961	QRA14CF-3901Y	CMF RESISTOR	3.9kΩ 1/4W F				
R981	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R982	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
△R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K				
L001	QQL244J-4R7Z	P COIL	4.7uH J				
L101	QQL244J-4R7Z	P COIL	4.7uH J				
L102	QQL244J-2R2Z	PEAKING COIL	2.2uH J				
L521	QQLZ036-821	COIL	820uH K				
L522	QQR1243-002	LINEARITY COIL					
L523	QQLZ036-101	COIL	100uH K				
L551	QQLZ026-160	COIL	16uH				
L710	QQL231J-100Y	COIL	10uH J				
L711	QQL244J-100Z	COIL	10uH J				
L713	QQL231J-100Y	COIL	10uH J				
L714	QQL231J-120Y	COIL	12uH J				
L715	QQL231J-100Y	COIL	10uH J				
L716	QQL244K-560Z	PEAKING COIL	56uH K				
L951	QQLZ026-460	COIL	46uH				
△T521	QQR1229-001	DRIVE TRANSF					
△T523	QQR1732-001	PIN TRANSF					
△T921	QQS0412-001	SW TRANSF					
CF101	QAX0695-001Z	C FILTER	5.500MHz				
CN00A	QJL001-050600-E	SIN CR B-B WIRE					
CN00T	QJL001-052616-E	SIN CR B-B WIRE					
CN00U	QJL001-042616-E	SIN CR B-B WIRE					
CN0E1	QUB130-30A6AS-E	SIN TWIST WIRE					
△CP951	QMFZ052-2R0Z-E	FUSE	2A				
△CP952	ICP-N38-T	IC PROTECTOR	1.5A				

# PRINTED WIRING BOARD PARTS LIST [AV-21QMG7/S]

## MAIN P.W. BOARD ASS'Y (SCQ-1408A-H2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
				D955	FR105GT-T3	SI DIODE	
				D956	1SS133-T2	SI DIODE	
				D957	MA8330/M-X	Z DIODE	
				D971	MA111-X	SI DIODE	
				D972	MA111-X	SI DIODE	
			(SERVICE)	D981	MA111-X	SI DIODE	
			(SERVICE)	D982	MA111-X	SI DIODE	
IC401	AN15526A	IC		C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC601	AN5279	IC		C002	QETN1HM-336Z	E CAPACITOR	33uF 50V M
IC701	A8897CPBNG-6RJ2	IC(MCU)		C005	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC702	ATE08-14UMG7	IC	(SERVICE)	C006	QETN1AM-477Z	E CAPACITOR	470uF 10V M
IC704	GP1UE281QKVF	IR DETECT UNIT		C007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC921	STR-W6554A-F5	IC		C008	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC951	TL431/A-T	IC		C101	NCB31HK-472X	C CAPACITOR	4700pF 50V K
IC971	S78L05-T	IC		C102	QETN1EM-476Z	E CAPACITOR	47uF 25V M
IC972	PQ050RDC1SZF	IC		C103	NCB31HK-472X	C CAPACITOR	4700pF 50V K
IC973	PQ090RDC1SZF	IC		C104	NCB31HK-472X	C CAPACITOR	4700pF 50V K
				C105	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q101	2SC5397/CD/-T	TRANSISTOR		C106	NCB31HK-472X	C CAPACITOR	4700pF 50V K
Q102	UN2212-X	DIGI TRANSISTOR		C107	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
Q103	2SA812A/5-6/-X	TRANSISTOR		C108	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q104	2SC1623A/5-6/-X	TRANSISTOR		C109	QETN1CM-477Z	E CAPACITOR	470uF 16V M
Q351	2SC4212/Z1/	TRANSISTOR		C111	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
Q352	2SC4212/Z1/	TRANSISTOR		C112	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
Q353	2SC4212/Z1/	TRANSISTOR		C113	NCB31CK-103X	C CAPACITOR	0.01uF 16V K
Q354	2SA812A/5-6/-X	TRANSISTOR		C351	QFZ0097-103	MM CAPACITOR	0.01uF 1250V K
Q421	2SC1623A/5-6/-X	TRANSISTOR		C352	QETN1CM-477Z	E CAPACITOR	470uF 16V M
Q422	2SC1623A/5-6/-X	TRANSISTOR		C354	NDC31HJ-331X	C CAPACITOR	330pF 50V J
Q461	RDN050N20	POWER MOS FET		C355	NDC31HJ-271X	C CAPACITOR	270pF 50V J
Q521	2SC2655/Y/-T	TRANSISTOR		C356	NDC31HJ-391X	C CAPACITOR	390pF 50V J
Q522	TT2202-YD	POW TRANSISTOR		C357	QETN1AM-477Z	E CAPACITOR	470uF 10V M
Q571	2SA1208/ST/Z1-T	TRANSISTOR		C422	QCS32HJ-180Z	C CAPACITOR	18pF 500V J
Q572	UN2226-X	DIGI TRANSISTOR		C423	NCB31HK-682X	C CAPACITOR	6800pF 50V K
Q601	2SA812A/5-6/-X	TRANSISTOR		C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J
Q602	2SA812A/5-6/-X	TRANSISTOR		C427	QETM1HM-108	E CAPACITOR	1000uF 50V M
Q603	DTC323TK-X	DIGI TRANSISTOR		C428	QETN1HM-227Z	E CAPACITOR	220uF 50V M
Q604	2SC1623A/5-6/-X	TRANSISTOR		C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J
Q605	2SC1623A/5-6/-X	TRANSISTOR		C431	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J
Q710	2SA812A/5-6/-X	TRANSISTOR		C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
Q711	2SA812A/5-6/-X	TRANSISTOR		C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z
Q801	KTA1267/YG/-T	TRANSISTOR		C471	QETN1HM-226Z	E CAPACITOR	22uF 50V M
Q802	UN2226-X	DIGI TRANSISTOR		C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K
Q981	2SC1623A/5-6/-X	TRANSISTOR		C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J
				C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M
D101	1SS355W-X	DIODE		C525	QFZ0196-143	MPP CAPACITOR	0.014uF 1.5kV H
D354	MA111-X	SI DIODE		C526	QFZ0196-113	MPP CAPACITOR	0.011uF 1.5kV H
D355	MA111-X	SI DIODE		C527	QFZ0197-404	MPP CAPACITOR	0.4uF 250V J
D356	MA111-X	SI DIODE		C528	QFP32GJ-393	PP CAPACITOR	0.039uF 400V J
D357	MA111-X	SI DIODE		C529	QEN2AM-225Z	BP E CAPACITOR	2.2uF 100V M
D423	1N4003SG-T2	SI DIODE		C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K
D424	1SR35-400A-T2	SI DIODE		C531	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M
D520	MA111-X	SI DIODE		C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M
D521	RH3G-F1	SI DIODE		C533	QFZ0197-105	MPP CAPACITOR	1uF 250V J
D522	RU4AM-LFM1	SI DIODE		C542	QFZ0197-823	MPP CAPACITOR	0.082uF 250V J
D523	FR105GT-T3	SI DIODE		C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K
D530	FR105GT-T3	SI DIODE		C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K
D551	FR105GT-T3	SI DIODE		C553	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
D552	FR105GT-T3	SI DIODE		C554	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
D554	MA8091/H/-X	Z DIODE		C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J
D571	MA8075/H/-X	Z DIODE		C571	QEZ0203-107	E CAPACITOR	100uF 160V M
D581	FR105GT-T3	SI DIODE		C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D591	1SR35-400A-T2	SI DIODE		C573	QETN1VM-476Z	E CAPACITOR	47uF 35V M
D601	MA111-X	SI DIODE		C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
D602	MA111-X	SI DIODE		C591	QETN1VM-476Z	E CAPACITOR	47uF 35V M
D603	MA111-X	SI DIODE		C601	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D701	MPP3338ST-T16	LED	POWER	C603	QETN1HM-105Z	E CAPACITOR	1uF 50V M
D710	MA8039/H/-X	Z DIODE		C604	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D711	MA8091/H/-X	Z DIODE		C605	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D712	MA8091/H/-X	Z DIODE		C606	QETN1HM-107Z	E CAPACITOR	100uF 50V M
D713	MA8091/H/-X	Z DIODE		C607	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D714	MA111-X	SI DIODE		C608	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D715	MA8091/H/-X	Z DIODE		C609	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D716	MA8051/M/-X	Z DIODE		C610	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D717	MA8051/M/-X	Z DIODE		C611	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D718	MA8051/M/-X	Z DIODE		C701	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D719	NRSA02J-OR0X	MG RESISTOR	0Ω 1/10W J	C702	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
D720	NRSA02J-OR0X	MG RESISTOR	0Ω 1/10W J	C710	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D721	NRSA02J-OR0X	MG RESISTOR	0Ω 1/10W J	C711	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D722	MA111-X	SI DIODE		C712	NDC31HJ-220X	C CAPACITOR	22pF 50V J
D901	GSIB460-S1	BRIDGE DIODE		C713	NDC31HJ-220X	C CAPACITOR	22pF 50V J
D902	FR105GT-T3	SI DIODE		C714	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D903	FR105GT-T3	SI DIODE		C715	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D904	MA8110/M/-X	Z DIODE		C716	NCB31HK-822X	C CAPACITOR	8200pF 50V K
D905	MTZJ9.1B-T2	Z DIODE		C717	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M
D906	MTZJ9.1B-T2	Z DIODE		C718	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J
D907	MTZJ9.1B-T2	Z DIODE		C719	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
D908	MTZJ9.1B-T2	Z DIODE					
D909	MTZJ36A-T2	Z DIODE					
D951	RU3AM-LFC4	SI DIODE					
D952	FR105GT-T3	SI DIODE					
D953	FR105GT-T3	SI DIODE					
D954	FR105GT-T3	SI DIODE					

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C720	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R114	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
C721	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R115	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
C723	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R117	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C724	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R118	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C725	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	R351	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R352	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C727	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R353	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C728	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R354	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C729	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R355	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C730	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R356	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C731	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	R357	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C732	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R358	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C733	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R359	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C734	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R360	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
C735	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R361	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R362	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
C737	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R363	QRL029J-123	OMF RESISTOR	12kΩ 2W J
C738	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R364	QRL029J-123	OMF RESISTOR	12kΩ 2W J
C739	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	R365	QRL029J-123	OMF RESISTOR	12kΩ 2W J
C740	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R366	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J
C741	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R367	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R368	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J
C744	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R373	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C745	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R374	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C747	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R421	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C748	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R422	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C754	NDC21HJ-100X	C CAPACITOR	10pF 50V J	R424	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C755	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R430	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C801	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R431	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J
C803	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R432	QRT029J-1R8	MF RESISTOR	1.8Ω 2W J
C804	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R433	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J
C805	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R440	QRL029J-151	OMF RESISTOR	150Ω 2W J
C808	QETN1AM-477Z	E CAPACITOR	470uF 10V M	R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J
C809	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R461	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J
C810	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R462	QRL039J-120	OMF RESISTOR	12Ω 3W J
△C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R471	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J
△C902	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R472	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
△C903	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R520	QRE141J-101Y	C RESISTOR	100Ω 1/4W J
△C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R521	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
△C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
△C906	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R523	QRL029J-271	OMF RESISTOR	270Ω 2W J
C910	QEZO476-227	E CAPACITOR	220uF 400V M	R524	QRL039J-271	OMF RESISTOR	270Ω 3W J
C911	QCZ0364-561	C CAPACITOR	560pF 2kV K	R525	QRL039J-271	OMF RESISTOR	270Ω 3W J
C912	QETN1VM-226Z	E CAPACITOR	22uF 35V M	R526	QRL039J-103	OMF RESISTOR	10kΩ 3W J
C913	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R527	QRL039J-103	OMF RESISTOR	10kΩ 3W J
C914	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
C915	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J	△R530	QRZ9017-270	FUSI RESISTOR	27Ω 1/4W J
C918	QCB32HK-103	C CAPACITOR	0.01uF 500V K	R551	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
C951	QCZ0364-102	C CAPACITOR	1000pF 2kV K	R552	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
C952	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R554	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C953	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R570	QRT029J-1R5	MF RESISTOR	1.5Ω 2W J
C954	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R571	QRT029J-1R0	MF RESISTOR	1Ω 2W J
C955	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R572	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
C961	QEZO203-107	E CAPACITOR	100uF 160V M	R574	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
C963	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	R575	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C964	QETN1EM-477Z	E CAPACITOR	470uF 25V M	R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
C965	QETN1VM-477Z	E CAPACITOR	470uF 35V M	R582	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J
C966	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
C971	QETN1EM-107Z	E CAPACITOR	100uF 25V M	△R591	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
C972	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R592	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C973	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R602	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
C974	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R603	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C975	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R604	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C976	QETN1EM-107Z	E CAPACITOR	100uF 25V M	R605	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C977	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	R606	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C981	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R607	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C983	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R608	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
△C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R609	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
△C992	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
△C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R612	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
C994	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J	R613	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
				R614	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R001	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	R615	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R002	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	R616	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R003	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R617	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R004	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R618	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R701	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R101	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R102	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R704	QRE121J-560Y	C RESISTOR	56Ω 1/2W J
R103	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R104	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R706	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R707	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R106	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R708	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R107	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R710	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R711	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R109	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R712	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R110	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R713	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R111	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R714	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R112	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R715	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R113	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R716	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R718	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	△CP953	ICP-N25-T	IC PROTECTOR	1.0A
R719	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	△CP954	ICP-N38-T	IC PROTECTOR	1.5A
R720	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	△CP955	ICP-N50-T	IC PROTECTOR	2.0A
R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	△F901	QMF51E2-4R0-S	FUSE	4A AC250V
R722	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	J001	QNN0384-001	PIN JACK	VIDEO,AUDIO IN/OUT(REAR)
R723	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	J002	QNS0197-001	3.5 JACK	HEADPHONE
R724	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	J003	QNN0706-001	PIN JACK	VIDEO IN(FRONT)
R725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	J004	QNN0706-002	PIN JACK	AUDIO IN(FRONT)
R726	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K001	QQR1114-001Z	FERRITE BEADS	
R727	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K712	QQR1113-001Z	FERRITE BEADS	
R729	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	K901	QQR1114-001Z	FERRITE BEADS	
R730	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K951	QQR1113-001Z	FERRITE BEADS	
R732	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	K952	QQR1113-001Z	FERRITE BEADS	
R733	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K953	QQR1113-001Z	FERRITE BEADS	
R734	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	K954	QQR1113-001Z	FERRITE BEADS	
R736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	K955	QQR1113-001Z	FERRITE BEADS	
R737	QRE121J-271Y	C RESISTOR	270Ω 1/2W J	K958	QQR1114-001Z	FERRITE BEADS	
R738	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△LF901	QQR1635-001	LINE FILTER	
R739	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△LF902	QQR0673-004	LINE FILTER	
R740	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△PC901	PS2581AL1/QW/	PHOTO COUPLER	
R741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△RY901	QSK0061-001	RELAY	
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S701	QSW0619-003Z	PUSH SWITCH	VOL+
R743	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S702	QSW0619-003Z	PUSH SWITCH	VOL-
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S703	QSW0619-003Z	PUSH SWITCH	CH+
R745	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	S704	QSW0619-003Z	PUSH SWITCH	CH-
R746	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	S705	QSW0619-003Z	PUSH SWITCH	MENU
R747	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	△S901	QSW0846-001	PUSH SWITCH	POWER
R750	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	SF101	QAX0921-001	SAW FILTER	
R751	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	△SK351	QNZ0536-002	CRT SOCKET	
R752	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	△TH901	QAD0134-4R5	P THERMISTOR	4.5Ω
R753	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	TU001	QAU0383-002	TUNER	
R754	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△VA901	QAF0060-621	VARISTOR	620V
R760	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	X710	QAX0717-001Z	CRYSTAL	8.000MHZ
R761	QRE141J-105Y	C RESISTOR	1MΩ 1/4W J				
R762	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J				
R763	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J				
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R802	QRE121J-221Y	C RESISTOR	220Ω 1/2W J				
R803	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R806	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R808	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R809	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J				
R810	QRE121J-181Y	C RESISTOR	180Ω 1/2W J				
R811	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R901	QAD0143-5R1	N THERMISTOR	5.1Ω				
R902	QRL029J-683	OMF RESISTOR	68kΩ 2W J				
R903	QRL039J-223	OMF RESISTOR	22kΩ 3W J				
R904	QRE121J-680Y	C RESISTOR	68Ω 1/2W J				
R905	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J				
R906	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R907	QRA14CF-3902Y	CMF RESISTOR	39kΩ 1/4W F				
R908	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J				
△R910	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K				
R951	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J				
R954	QRL029J-223	OMF RESISTOR	22kΩ 2W J				
R955	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R956	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J				
R957	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R959	QRA14CF-1503Y	CMF RESISTOR	150kΩ 1/4W F				
R960	QRA14CF-2702Y	CMF RESISTOR	27kΩ 1/4W F				
R961	QRA14CF-3901Y	CMF RESISTOR	3.9kΩ 1/4W F				
R981	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R982	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
△R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K				
L001	QQL244J-4R7Z	P COIL	4.7uH J				
L101	QQL244J-4R7Z	P COIL	4.7uH J				
L102	QQL244J-2R2Z	PEAKING COIL	2.2uH J				
L521	QQLZ036-821	COIL	820uH K				
L522	QQR1243-002	LINEARITY COIL					
L523	QQLZ036-101	COIL	100uH K				
L551	QQLZ026-160	COIL	16uH				
L710	QQL231J-100Y	COIL	10uH J				
L711	QQL244J-100Z	COIL	10uH J				
L713	QQL231J-100Y	COIL	10uH J				
L714	QQL231J-120Y	COIL	12uH J				
L715	QQL231J-100Y	COIL	10uH J				
L716	QQL244K-560Z	PEAKING COIL	56uH K				
L951	QQLZ026-460	COIL	46uH				
△T521	QQR1229-001	DRIVE TRANSF					
△T523	QQR1732-001	PIN TRANSF					
△T921	QQS0412-001	SW TRANSF					
CF101	QAX0695-001Z	C FILTER	5.500MHZ				
CN00A	QJL001-050600-E	SIN CR B-B WIRE					
CN00T	QJL001-052616-E	SIN CR B-B WIRE					
CN00U	QJL001-042616-E	SIN CR B-B WIRE					
CN0E1	QUB130-30A6AS-E	SIN TWIST WIRE					
△CP951	QMFZ052-2R0Z-E	FUSE	2A				
△CP952	ICP-N38-T	IC PROTECTOR	1.5A				

# PRINTED WIRING BOARD PARTS LIST [AV-21QMG7/G,AV-21QMG7B/G]

## MAIN P.W. BOARD ASS'Y (SCQ-1401A-H2)

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
IC401	AN15526A	IC			D955	FR105GT-T3	SI DIODE		
IC601	AN5279	IC			D956	1SS133-T2	SI DIODE		
IC701	A8897CPBNG-6RJ2	IC(MCU)	(SERVICE)		D957	MA8330/M-X	Z DIODE		
IC702	ATE08-14UMG7	IC	(SERVICE)		D971	MA111-X	SI DIODE		
IC704	GP1UE281QKVF	IR DETECT UNIT			D972	MA111-X	SI DIODE		
IC921	STR-W6554A-F5	IC			D981	MA111-X	SI DIODE		
IC951	TL431/A-T	IC			D982	MA111-X	SI DIODE		
IC971	S78L05-T	IC			C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
IC972	PQ050RDA1SZ	IC			C002	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
IC973	PQ090RDA1SSH	IC			C005	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q101	2SC5397/CD-T	TRANSISTOR			C006	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
Q102	UN2212-X	DIGI TRANSISTOR			C007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q103	2SA812A/5-6/-X	TRANSISTOR			C008	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q104	2SC1623A/5-6/-X	TRANSISTOR			C101	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q351	2SC4212/Z1/	TRANSISTOR			C102	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
Q352	2SC4212/Z1/	TRANSISTOR			C103	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q353	2SC4212/Z1/	TRANSISTOR			C104	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q354	2SA812A/5-6/-X	TRANSISTOR			C105	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q421	2SC1623A/5-6/-X	TRANSISTOR			C106	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q422	2SC1623A/5-6/-X	TRANSISTOR			C107	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
Q461	RDN050N20	POWER MOS FET			C108	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q521	2SC2655/Y-T	TRANSISTOR			C109	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
Q522	TT2202-YD	POW TRANSISTOR			C111	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
Q571	2SA1208/ST/Z1-T	TRANSISTOR			C112	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
Q572	UN2226-X	DIGI TRANSISTOR			C113	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
Q601	2SA812A/5-6/-X	TRANSISTOR			C351	QFZ0097-103	MM CAPACITOR	0.01uF 1250V K	
Q602	2SA812A/5-6/-X	TRANSISTOR			C352	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
Q603	DTC323TK-X	DIGI TRANSISTOR			C354	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
Q604	2SC1623A/5-6/-X	TRANSISTOR			C355	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
Q605	2SC1623A/5-6/-X	TRANSISTOR			C356	NDC31HJ-391X	C CAPACITOR	390pF 50V J	
Q710	2SA812A/5-6/-X	TRANSISTOR			C357	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
Q711	2SA812A/5-6/-X	TRANSISTOR			C422	QCS32HJ-180Z	C CAPACITOR	18pF 500V J	
Q801	KTA1267/YG-T	TRANSISTOR			C423	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
Q802	UN2226-X	DIGI TRANSISTOR			C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
Q981	2SC1623A/5-6/-X	TRANSISTOR			C427	QETM1HM-108	E CAPACITOR	1000uF 50V M	
D101	1SS355W-X	DIODE			C428	QETN1HM-227Z	E CAPACITOR	220uF 50V M	
D354	MA111-X	SI DIODE			C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	
D355	MA111-X	SI DIODE			C431	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J	
D356	MA111-X	SI DIODE			C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
D357	MA111-X	SI DIODE			C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
D423	1N4003SG-T2	SI DIODE			C471	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
D424	1SR35-400A-T2	SI DIODE			C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K	
D520	MA111-X	SI DIODE			C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
D521	RH3G-F1	SI DIODE			C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
D522	RU4AM-LFM1	SI DIODE			C525	QFZ0196-143	MPP CAPACITOR	0.014uF 1.5kV H	
D523	FR105GT-T3	SI DIODE			C526	QFZ0196-113	MPP CAPACITOR	0.011uF 1.5kV H	
D530	FR105GT-T3	SI DIODE			C527	QFZ0197-404	MPP CAPACITOR	0.4uF 250V J	
D551	FR105GT-T3	SI DIODE			C528	QFP32GJ-393	PP CAPACITOR	0.039uF 400V J	
D552	FR105GT-T3	SI DIODE			C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	
D554	MA8091/H/-X	Z DIODE			C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
D571	MA8075/H/-X	Z DIODE			C531	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M	
D581	FR105GT-T3	SI DIODE			C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
D591	1SR35-400A-T2	SI DIODE			C533	QFZ0197-105	MPP CAPACITOR	1uF 250V J	
D601	MA111-X	SI DIODE			C542	QFZ0197-823	MPP CAPACITOR	0.082uF 250V J	
D602	MA111-X	SI DIODE			C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
D603	MA111-X	SI DIODE			C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
D701	MPR3338ST-T16	LED	POWER		C553	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	
D710	MA8039/H/-X	Z DIODE			C554	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	
D711	MA8091/H/-X	Z DIODE			C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J	
D712	MA8091/H/-X	Z DIODE			C571	QEZ0203-107	E CAPACITOR	100uF 160V M	
D713	MA8091/H/-X	Z DIODE			C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D714	MA111-X	SI DIODE			C573	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
D715	MA8091/H/-X	Z DIODE			C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
D716	MA8051/M/-X	Z DIODE			C591	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
D717	MA8051/M/-X	Z DIODE			C601	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D718	MA8051/M/-X	Z DIODE			C603	QETN1HM-105Z	E CAPACITOR	0.1uF 50V M	
D719	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		C604	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D720	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		C605	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D721	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		C606	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
D722	MA111-X	SI DIODE			C607	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D901	GSIB460-S1	BRIDGE DIODE			C608	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
D902	FR105GT-T3	SI DIODE			C609	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
D903	FR105GT-T3	SI DIODE			C610	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D904	MA8110/M/-X	Z DIODE			C611	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
D905	MTZJ9.1B-T2	Z DIODE			C701	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D906	MTZJ9.1B-T2	Z DIODE			C702	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
D907	MTZJ9.1B-T2	Z DIODE			C710	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
D908	MTZJ9.1B-T2	Z DIODE			C711	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
D909	MTZJ36A-T2	Z DIODE			C712	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
D951	RU3AM-LFC4	SI DIODE			C713	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
D952	FR105GT-T3	SI DIODE			C714	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
D953	FR105GT-T3	SI DIODE			C715	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D954	FR105GT-T3	SI DIODE			C716	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
					C717	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	
					C718	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
					C719	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
C720	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R114	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
C721	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R115	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C723	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R117	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C724	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R118	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C725	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M		R351	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R352	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
C727	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R353	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
C728	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R354	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C729	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R355	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C730	QETN1EM-476Z	E CAPACITOR	47uF 25V M		R356	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C731	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M		R357	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
C732	NCB31HK-102X	C CAPACITOR	1000pF 50V K		R358	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
C733	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R359	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
C734	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		R360	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K	
C735	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M		R361	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K	
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R362	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K	
C737	QETN1HM-105Z	E CAPACITOR	1uF 50V M		R363	QRL029J-123	OMF RESISTOR	12kΩ 2W J	
C738	NCB31HK-222X	C CAPACITOR	2200pF 50V K		R364	QRL029J-123	OMF RESISTOR	12kΩ 2W J	
C739	NCB31CK-224X	C CAPACITOR	0.22uF 16V K		R365	QRL029J-123	OMF RESISTOR	12kΩ 2W J	
C740	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R366	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
C741	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R367	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R368	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
C744	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R373	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C745	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R374	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C747	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R421	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C748	QETN1EM-476Z	E CAPACITOR	47uF 25V M		R422	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C754	NDC31HJ-100X	C CAPACITOR	10pF 50V J		R424	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C755	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R430	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
C801	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M		R431	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J	
C803	QETN1HM-105Z	E CAPACITOR	1uF 50V M		R432	QRT029J-1R8	MF RESISTOR	1.8Ω 2W J	
C804	QETN1HM-105Z	E CAPACITOR	1uF 50V M		R433	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J	
C805	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M		R440	QRL029J-151	OMF RESISTOR	150Ω 2W J	
C808	QETN1AM-477Z	E CAPACITOR	470uF 10V M		R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J	
C809	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R461	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J	
C810	QETN1HM-105Z	E CAPACITOR	1uF 50V M		R462	QRL039J-120	OMF RESISTOR	12Ω 3W J	
△C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K		R471	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
△C902	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K		R472	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
△C903	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K		R520	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
△C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z		R521	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
△C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z		R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J	
△C906	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z		R523	QRL029J-271	OMF RESISTOR	270Ω 2W J	
C910	QEZO476-227	E CAPACITOR	220uF 400V M		R524	QRL039J-271	OMF RESISTOR	270Ω 3W J	
C911	QCZ0364-561	C CAPACITOR	560pF 2kV K		R525	QRL039J-271	OMF RESISTOR	270Ω 3W J	
C912	QETN1VM-226Z	E CAPACITOR	22uF 35V M		R526	QRL039J-103	OMF RESISTOR	10kΩ 3W J	
C913	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R527	QRL039J-103	OMF RESISTOR	10kΩ 3W J	
C914	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J	
C915	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J		△R530	QRZ9017-270	FUSI RESISTOR	27Ω 1/4W J	
C918	QCB32HK-103	C CAPACITOR	0.01uF 500V K		R551	QRX029J-R47	MF RESISTOR	0.47Ω 2W J	
C951	QCZ0364-102	C CAPACITOR	1000pF 2kV K		R552	QRX029J-R47	MF RESISTOR	0.47Ω 2W J	
C952	QCB32HK-471Z	C CAPACITOR	470pF 500V K		R554	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
C953	QCB32HK-471Z	C CAPACITOR	470pF 500V K		R570	QRT029J-1R5	MF RESISTOR	1.5Ω 2W J	
C954	QCB32HK-471Z	C CAPACITOR	470pF 500V K		R571	QRT029J-1R0	MF RESISTOR	1Ω 2W J	
C955	QCB32HK-471Z	C CAPACITOR	470pF 500V K		R572	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J	
C961	QEZO203-107	E CAPACITOR	100uF 160V M		R574	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J	
C963	QETN1AM-108Z	E CAPACITOR	1000uF 10V M		R575	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
C964	QETN1EM-477Z	E CAPACITOR	470uF 25V M		R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J	
C965	QETN1VM-477Z	E CAPACITOR	470uF 35V M		R582	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J	
C966	QETN1EM-108Z	E CAPACITOR	1000uF 25V M		R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J	
C971	QETN1EM-107Z	E CAPACITOR	100uF 25V M		△R591	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J	
C972	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R592	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C973	QETN1AM-107Z	E CAPACITOR	100uF 10V M		R602	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
C974	QETN1AM-107Z	E CAPACITOR	100uF 10V M		R603	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C975	QETN1AM-107Z	E CAPACITOR	100uF 10V M		R604	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C976	QETN1EM-107Z	E CAPACITOR	100uF 25V M		R605	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C977	QETN1AM-108Z	E CAPACITOR	1000uF 10V M		R606	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C981	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R607	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C983	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R608	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
△C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M		R609	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J	
△C992	QCZ9079-102	C CAPACITOR	1000pF AC250V M		R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
△C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M		R612	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
C994	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J		R613	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
					R614	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R001	QRE141J-221Y	C RESISTOR	220Ω 1/4W J		R615	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R002	QRE141J-221Y	C RESISTOR	220Ω 1/4W J		R616	QRE121J-271Y	C RESISTOR	270Ω 1/2W J	
R003	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R617	QRE121J-271Y	C RESISTOR	270Ω 1/2W J	
R004	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R618	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J	
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		R701	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R101	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R102	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J		R704	QRE121J-560Y	C RESISTOR	56Ω 1/2W J	
R103	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R104	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J		R706	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R707	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R106	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R708	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R107	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R710	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R711	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R109	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R712	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R110	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R713	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R111	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R714	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R112	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R715	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R113	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R716	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	

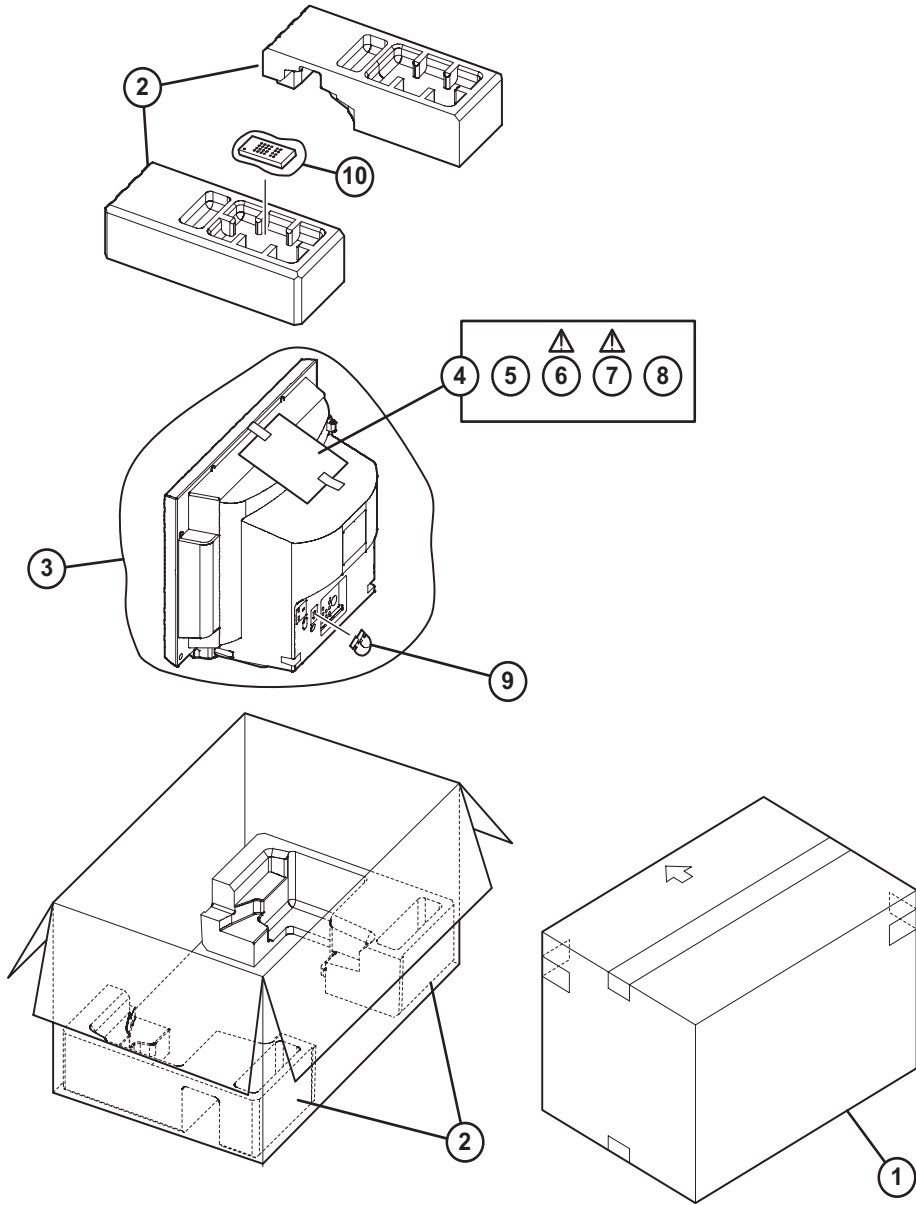
△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R718	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	△CP953	ICP-N25-T	IC PROTECTOR	1.0A
R719	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	△CP954	ICP-N38-T	IC PROTECTOR	1.5A
R720	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	△CP955	ICP-N50-T	IC PROTECTOR	2.0A
R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	△F901	QMF51E2-4R0-S	FUSE	4A AC250V
R722	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	J001	QNN0384-001	PIN JACK	VIDEO,AUDIO IN(OUT)(REAR)
R723	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	J002	QNS0197-001	3.5 JACK	HEADPHONE
R724	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	J003	QNN0706-001	PIN JACK	VIDEO IN(FRONT)
R725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	J004	QNN0706-002	PIN JACK	AUDIO IN(FRONT)
R726	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K001	QQR1114-001Z	FERRITE BEADS	
R727	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K712	QQR1113-001Z	FERRITE BEADS	
R729	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	K901	QQR1114-001Z	FERRITE BEADS	
R730	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K951	QQR1113-001Z	FERRITE BEADS	
R732	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	K952	QQR1113-001Z	FERRITE BEADS	
R733	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K953	QQR1113-001Z	FERRITE BEADS	
R734	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	K954	QQR1113-001Z	FERRITE BEADS	
R736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	K955	QQR1113-001Z	FERRITE BEADS	
R737	QRE121J-271Y	C RESISTOR	270Ω 1/2W J	K958	QQR1114-001Z	FERRITE BEADS	
R738	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△LF901	QQR1635-001	LINE FILTER	
R739	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△LF902	QQR0673-004	LINE FILTER	
R740	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	△PC901	PS2581AL1/QW/	PHOTO COUPLER	
R741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△RY901	QSK0061-001	RELAY	
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S701	QSW0619-003Z	PUSH SWITCH	VOL+
R743	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S702	QSW0619-003Z	PUSH SWITCH	VOL-
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	S703	QSW0619-003Z	PUSH SWITCH	CH+
R745	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	S704	QSW0619-003Z	PUSH SWITCH	CH-
R746	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	S705	QSW0619-003Z	PUSH SWITCH	MENU
R747	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	△S901	QSW0846-001	PUSH SWITCH	POWER
R750	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	SF101	QAX0921-001	SAW FILTER	
R751	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	△SK351	QNZ0536-002	CRT SOCKET	
R752	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	△TH901	QAD0134-4R5	P THERMISTOR	4.5Ω
R753	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	TU001	QAU0466-002	TUNER	
R754	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	△VA901	QAF0060-621	VARISTOR	620V
R760	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	X710	QAX0717-001Z	CRYSTAL	8.000MHz
R761	QRE141J-105Y	C RESISTOR	1MΩ 1/4W J				
R762	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J				
R763	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J				
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R802	QRE121J-221Y	C RESISTOR	220Ω 1/2W J				
R803	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R806	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R808	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R809	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J				
R810	QRE121J-181Y	C RESISTOR	180Ω 1/2W J				
R811	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R901	QAD0143-5R1	N THERMISTOR	5.1Ω				
R902	QRL029J-683	OMF RESISTOR	68kΩ 2W J				
R903	QRL039J-223	OMF RESISTOR	22kΩ 3W J				
R904	QRE121J-680Y	C RESISTOR	68Ω 1/2W J				
R905	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J				
R906	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R907	QRA14CF-3902Y	CMF RESISTOR	39kΩ 1/4W F				
R908	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J				
△R910	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K				
R951	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J				
R954	QRL029J-223	OMF RESISTOR	22kΩ 2W J				
R955	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R956	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J				
R957	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R959	QRA14CF-1503Y	CMF RESISTOR	150kΩ 1/4W F				
R960	QRA14CF-2702Y	CMF RESISTOR	27kΩ 1/4W F				
R961	QRA14CF-3901Y	CMF RESISTOR	3.9kΩ 1/4W F				
R981	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R982	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
△R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K				
L001	QQL244J-4R7Z	P COIL	4.7uH J				
L101	QQL244J-4R7Z	P COIL	4.7uH J				
L102	QQL244J-2R2Z	PEAKING COIL	2.2uH J				
L521	QQLZ036-821	COIL	820uH K				
L522	QQR1243-002	LINEARITY COIL					
L523	QQLZ036-101	COIL	100uH K				
L551	QQLZ026-160	COIL	16uH				
L710	QQL231J-100Y	COIL	10uH J				
L711	QQL244J-100Z	COIL	10uH J				
L713	QQL231J-100Y	COIL	10uH J				
L714	QQL231J-120Y	COIL	12uH J				
L715	QQL231J-100Y	COIL	10uH J				
L716	QQL244K-560Z	PEAKING COIL	56uH K				
L951	QQLZ026-460	COIL	46uH				
△T521	QQR1229-001	DRIVE TRANSF					
△T523	QQR1732-001	PIN TRANSF					
△T921	QQS0412-001	SW TRANSF					
CF101	QAX0695-001Z	C FILTER	5.500MHz				
CN00A	QJL001-050600-E	SIN CR B-B WIRE					
CN00T	QJL001-052616-E	SIN CR B-B WIRE					
CN00U	QJL001-042616-E	SIN CR B-B WIRE					
CN0E1	QUB130-30A6AS-E	SIN TWIST WIRE					
△CP951	QMFZ052-2R0Z-E	FUSE	2A				
△CP952	ICP-N38-T	IC PROTECTOR	1.5A				



# REMOTE CONTROL UNIT PARTS LIST (RM-C1150-1H)

△ Ref.No.	Part No.	Part Name	Description	Local
	R56-1400	BATTERY COVER		

## PACKING



## PACKING PARTS LIST

△ Ref.No.	Part No.	Part Name	Description	Local
1	GG10285-017B-H	PACKING CASE		AV-2100QE,AV-21Q17,AV-21Q17L,AV-21QMG7S
1	GG10282-047B-H	PACKING CASE		AV-21QMG7G,AV-21QMG7BG
2	GG10483-001A-H	CUSHION ASSY	4pcs in 1set	
3	GG30097-003B-H	POLY BAG		
4	GG30096-001B-H	POLY BAG		
5	-----	BATTERY	AA/R6(x2)	
△ 6	GGT0180-001A-H	INST BOOK	Ukrainian/Russain	AV-2100QE
△ 6	GGT0177-001A-H	INST BOOK	English	AV-21Q17,AV-21Q17L,AV-21QMG7G,AV-21QMG7S,AV-21QMG7BG
△ 7	GGT0179-001A-H	INST BOOK	Chinese/Russain	AV-21Q17
△ 7	GGT0178-001A-H	INST BOOK	Chinese/Russain	AV-21QMG7G,AV-21QMG7S,AV-21QMG7BG
8	-----	WARRANTY CARD	BT-54031-1H	AV-2100QE
9	GG40042-001A-H	CORD CLAMP R/C		
10	RM-C1150-1H	REMOTE CONTROL UNIT		

# JVC

## SERVICE MANUAL

COLOUR TELEVISION

**AV-2100QE/KSK,**  
**AV-2100QE/NSK**

BASIC CHASSIS

CQ

### Supplementary

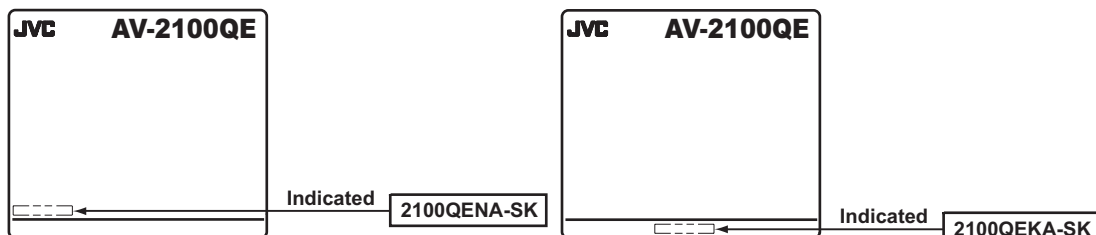
AV-2100QE/KSK and AV-2100QE/NSK are the models whose production place and destination were changed from that of AV-2100QE.

Therefore, this service manual describes only the items which differ from those of the AV-2100QE service manual.

For details other than those described in this manual, please refer to the AV-2100QE service manual ([No. YA552](#), 2007/9).

## HOW TO IDENTIFY MODELS

Distinguish name is added at the bottom of the rating label.



# DIFFERENCE LIST

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

P.W.B ASS'Y Name	AV-2100QE	AV-2100QE/KSK	DESCRIPTION
MAIN PWB	SCQ-1403A-H2	SCQ-1406A-H2	Compatible(Change only in PWB ASS'Y No.)

P.W.B ASS'Y Name	AV-2100QE	AV-2100QE/NSK	DESCRIPTION
MAIN PWB	SCQ-1403A-H2	SCQ-1409A-H2	No compatible
CRT SOCKET PWB	---	SCQ-3003A-H2	

## EXPLODED VIEW PARTS LIST (Page 3-3)

△	Ref. No.	Part No.		PART NAME	DESCRIPTION
		AV-2100QE	AV-2100QE/KSK		
△	30	SCQ-1403A-H2	SCQ-1406A-H2	MAIN PWB	
△	100	GG10478-009A-H	GG10478-009A-HK	FRONT CABINET ASSY	Inc.101-103

△	Ref. No.	Part No.		PART NAME	DESCRIPTION
		AV-2100QE	AV-2100QE/NSK		
△	30	SCQ-1403A-H2	SCQ-1409A-H2	MAIN PWB	
△	30	---	SCQ-3003A-H2	CRT SOCKET PWB	
△	100	GG10478-009A-H	GG10478-009A-HK	FRONT CABINET ASSY	Inc.101-103

## PRINTED WIRING BOARD PARTS LIST [AV-2100QE/NSK]

As there are many difference points, all parts are listed. Please refer to the PARTS LIST for details.

# PARTS LIST

## PRINTED WIRING BOARD PARTS LIST [AV-2100QE/NSK]

### MAIN P.W. BOARD ASS'Y (SCQ-1409A-H2)

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
IC401	AN15526A	IC			D981	MA111-X	SI DIODE		
IC601	AN5279	IC			D982	MA111-X	SI DIODE		
IC701	A8897CPBNG-6RJ3	IC(MCU)	(SERVICE)		C001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
IC702	ATE08-14UMG7	IC	(SERVICE)		C002	QETN1HM-336Z	E CAPACITOR	33uF 50V M	
IC704	GP1UE281QKVF	IR DETECT UNIT			C005	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
IC921	STR-W6554A-F5	IC			C006	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
IC951	TL431A/A-T	IC			C007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
IC971	S78L05-T	IC			C008	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
IC972	PQ050RDC1SZF	IC			C101	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
IC973	PQ090RDA1SSH	IC			C102	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
Q101	2SC5397/CD/-T	TRANSISTOR			C103	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q102	UN2212-X	DIGI TRANSISTOR			C104	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q421	2SC1623A/5-6/-X	TRANSISTOR			C105	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q422	2SC1623A/5-6/-X	TRANSISTOR			C106	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q461	RDN050N20	POWER MOS FET			C107	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
Q521	2SC2655/Y/-T	TRANSISTOR			C108	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q522	TT2202-YD	POW TRANSISTOR			C109	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
Q571	2SA1208/ST/Z1-T	TRANSISTOR			C422	QCS32HJ-180Z	C CAPACITOR	18pF 500V J	
Q572	UN2226-X	DIGI TRANSISTOR			C423	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
Q601	2SA812A/5-6/-X	TRANSISTOR			C424	QFLC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
Q602	2SA812A/5-6/-X	TRANSISTOR			C427	QETM1HM-108	E CAPACITOR	1000uF 50V M	
Q603	DTC323TK-X	DIGI TRANSISTOR			C428	QETN1HM-227Z	E CAPACITOR	220uF 50V M	
Q604	2SC1623A/5-6/-X	TRANSISTOR			C430	QFLC2AJ-563Z	M CAPACITOR	0.056uF 100V J	
Q605	2SC1623A/5-6/-X	TRANSISTOR			C431	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J	
Q710	2SA812A/5-6/-X	TRANSISTOR			C435	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
Q711	2SA812A/5-6/-X	TRANSISTOR			C436	NCF21HZ-334X	C CAPACITOR	0.33uF 50V Z	
Q801	KTA1267/YG/-T	TRANSISTOR			C471	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
Q802	UN2226-X	DIGI TRANSISTOR			C521	QCB31HK-332Z	C CAPACITOR	3300pF 50V K	
Q981	2SC1623A/5-6/-X	TRANSISTOR			C522	QFLC1HJ-223Z	M CAPACITOR	0.022uF 50V J	
D101	1SS355W-X	DIODE			C523	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
D423	1N4003SG-T2	SI DIODE			C525	QFZ0196-103	MPP CAPACITOR	0.01uF 1.5kV H	
D424	1SR35-400A-T2	SI DIODE			C526	QFZ0196-143	MPP CAPACITOR	0.014uF 1.5kV H	
D520	MA111-X	SI DIODE			C527	QFZ0197-564	MPP CAPACITOR	0.56uF 250V J	
D521	RH3G-F1	SI DIODE			C528	QFP32GJ-273	PP CAPACITOR	0.027uF 400V J	
D522	RU4AM-LFM1	SI DIODE			C529	QENC2AM-225Z	BP E CAPACITOR	2.2uF 100V M	
D523	FR105GT-T3	SI DIODE			C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
D530	FR105GT-T3	SI DIODE			C531	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M	
D551	FR105GT-T3	SI DIODE			C532	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
D552	FR105GT-T3	SI DIODE			C533	QFZ0197-684	MPP CAPACITOR	0.68uF 250V J	
D554	MA8091/H/-X	Z DIODE			C542	QFZ0197-823	MPP CAPACITOR	0.082uF 250V J	
D571	MA8075/H/-X	Z DIODE			C551	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
D581	FR105GT-T3	SI DIODE			C552	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
D591	1SR35-400A-T2	SI DIODE			C553	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	
D601	MA111-X	SI DIODE			C554	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	
D602	MA111-X	SI DIODE			C555	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J	
D603	MA111-X	SI DIODE			C571	QEZ0203-107	E CAPACITOR	100uF 160V M	
D701	MPR3338ST-T16	LED	POWER		C572	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D710	MA8039/H/-X	Z DIODE			C573	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
D711	MA8091/H/-X	Z DIODE			C581	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
D712	MA8091/H/-X	Z DIODE			C591	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
D713	MA8091/H/-X	Z DIODE			C601	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D714	MA111-X	SI DIODE			C603	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
D715	MA8091/H/-X	Z DIODE			C604	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D716	MA8051/M/-X	Z DIODE			C605	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D717	MA8051/M/-X	Z DIODE			C606	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
D718	MA8051/M/-X	Z DIODE			C607	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D719	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		C608	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
D720	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		C609	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
D721	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		C610	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D722	MA111-X	SI DIODE			C611	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
D901	GSIB460-S1	BRIDGE DIODE			C701	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D902	FR105GT-T3	SI DIODE			C702	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
D903	FR105GT-T3	SI DIODE			C710	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
D904	MA8110/M/-X	Z DIODE			C711	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
D905	MTZJ9.1B-T2	Z DIODE			C712	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
D906	MTZJ9.1B-T2	Z DIODE			C713	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
D907	MTZJ9.1B-T2	Z DIODE			C714	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
D908	MTZJ9.1B-T2	Z DIODE			C715	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D909	MTZJ36A-T2	Z DIODE			C716	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
D951	RU3AM-LFC4	SI DIODE			C717	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	
D952	FR105GT-T3	SI DIODE			C718	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
D953	FR105GT-T3	SI DIODE			C719	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
D954	FR105GT-T3	SI DIODE			C720	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
D955	FR105GT-T3	SI DIODE			C721	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
D956	1SS133-T2	SI DIODE			C723	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
D957	MA8330/M/-X	Z DIODE			C724	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D971	MA111-X	SI DIODE			C725	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	
D972	MA111-X	SI DIODE			C726	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
					C727	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
					C728	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
					C729	QETN1HM-106Z	E CAPACITOR	10uF 50V M	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C730	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R472	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C731	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	R520	QRE141J-101Y	C RESISTOR	100Ω 1/4W J
C732	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R521	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C733	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R522	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
C734	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	R523	QRL029J-271	OMF RESISTOR	270Ω 2W J
C735	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R524	QRL039J-271	OMF RESISTOR	270Ω 3W J
C736	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R525	QRL039J-271	OMF RESISTOR	270Ω 3W J
C737	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R527	QRL039J-103	OMF RESISTOR	10kΩ 3W J
C738	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R528	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
C739	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	△R530	QRZ9017-270	FUSI RESISTOR	27Ω 1/4W J
C740	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R551	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
C741	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R552	QRX029J-R47	MF RESISTOR	0.47Ω 2W J
C743	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R554	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C744	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R570	QRT029J-1R5	MF RESISTOR	1.5Ω 2W J
C745	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R571	QRT029J-1R0	MF RESISTOR	1Ω 2W J
C747	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R572	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
C748	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R574	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
C754	NDC21HJ-100X	C CAPACITOR	10pF 50V J	R575	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C755	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R581	QRE121J-822Y	C RESISTOR	8.2kΩ 1/2W J
C801	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R582	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J
C803	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R583	QRE121J-184Y	C RESISTOR	180kΩ 1/2W J
C804	QETN1HM-105Z	E CAPACITOR	1uF 50V M	△R591	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
C805	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R592	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C808	QETN1AM-477Z	E CAPACITOR	470uF 10V M	R602	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
C809	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R603	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C810	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R604	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
△C901	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R605	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
△C902	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R606	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
△C903	QFZ9072-224	MM CAPACITOR	0.22uF AC250V K	R607	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
△C904	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R608	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
△C905	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R609	QRE121J-2R2Y	C RESISTOR	2.2Ω 1/2W J
△C906	QCZ9015-102Z	C CAPACITOR	1000pF AC250V Z	R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C910	QEZ0633-227	E CAPACITOR	220uF 450V M	R612	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
C911	QCZ0364-561	C CAPACITOR	560pF 2kV K	R613	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C912	QETN1VM-226Z	E CAPACITOR	22uF 35V M	R614	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C913	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R615	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C914	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R616	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
C915	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J	R617	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
C918	QCB32HK-103	C CAPACITOR	0.01uF 500V K	R618	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J
C951	QCZ0364-102	C CAPACITOR	1000pF 2kV K	R701	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
C952	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C953	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R704	QRE121J-560Y	C RESISTOR	56Ω 1/2W J
C954	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C955	QCB32HK-471Z	C CAPACITOR	470pF 500V K	R706	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C961	QEZ0203-107	E CAPACITOR	100uF 160V M	R707	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
C963	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	R708	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
C964	QETN1EM-477Z	E CAPACITOR	470uF 25V M	R710	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C965	QETN1VM-477Z	E CAPACITOR	470uF 35V M	R711	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
C966	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R712	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
C971	QETN1EM-107Z	E CAPACITOR	100uF 25V M	R713	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C972	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R714	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C973	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R715	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C974	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R716	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
C975	QETN1AM-107Z	E CAPACITOR	100uF 10V M	R718	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C976	QETN1EM-107Z	E CAPACITOR	100uF 25V M	R719	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C977	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R720	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C981	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C983	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R722	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
△C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R723	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
△C992	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R724	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
△C993	QCZ9079-102	C CAPACITOR	1000pF AC250V M	R725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C994	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J	R726	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
				R727	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R001	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	R729	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R002	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	R730	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R003	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R732	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R004	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R733	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R734	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R101	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R736	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R102	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R737	QRE121J-271Y	C RESISTOR	270Ω 1/2W J
R103	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R738	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R104	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R739	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R740	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R106	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R107	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R743	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R109	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R421	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R745	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R422	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R746	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R424	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R747	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R430	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R750	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R431	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J	R751	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R432	QRT029J-1R8	MF RESISTOR	1.8Ω 2W J	R752	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R433	QRE121J-6R8Y	C RESISTOR	6.8Ω 1/2W J	R753	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R440	QRL029J-151	OMF RESISTOR	15Ω 2W J	R754	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R448	QRE121J-1R0Y	C RESISTOR	1Ω 1/2W J	R760	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R461	QRE121J-823Y	C RESISTOR	82kΩ 1/2W J	R761	QRE141J-105Y	C RESISTOR	1MΩ 1/4W J
R462	QRL039J-120	OMF RESISTOR	12Ω 3W J	R762	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R471	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	R763	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local
R801	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R802	QRE121J-221Y	C RESISTOR	220Ω 1/2W J
R803	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R806	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R808	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R809	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R810	QRE121J-181Y	C RESISTOR	180Ω 1/2W J
R811	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R902	QRL029J-683	OMF RESISTOR	68kΩ 2W J
R903	QRL039J-223	OMF RESISTOR	22kΩ 3W J
R904	QRE121J-680Y	C RESISTOR	68Ω 1/2W J
R905	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J
R906	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R907	QRA14CF-3902Y	CMF RESISTOR	39kΩ 1/4W F
R908	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
△R910	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K
R951	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R954	QRL029J-223	OMF RESISTOR	22kΩ 2W J
R955	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R956	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R957	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R959	QRA14CF-1503Y	CMF RESISTOR	150kΩ 1/4W F
R960	QRA14CF-2702Y	CMF RESISTOR	27kΩ 1/4W F
R961	QRA14CF-3901Y	CMF RESISTOR	3.9kΩ 1/4W F
R981	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R982	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
△R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
L001	QQL244J-4R7Z	P COIL	4.7uH J
L101	QQL244J-4R7Z	P COIL	4.7uH J
L102	QQL244J-2R2Z	PEAKING COIL	2.2uH J
L521	QQLZ036-821	COIL	820uH K
L522	QQR1243-002	LINEARITY COIL	
L523	QQLZ036-101	COIL	100uH K
L551	QQLZ026-240	COIL	24uH
L710	QQL231J-100Y	COIL	10uH J
L711	QQL244J-100Z	COIL	10uH J
L713	QQL231J-100Y	COIL	10uH J
L714	QQL231J-120Y	COIL	12uH J
L715	QQL231J-100Y	COIL	10uH J
L716	QQL244K-560Z	PEAKING COIL	56uH K
L951	QQLZ026-460	COIL	46uH
△T521	QQR1229-001	DRIVE TRANSF	
△T523	QQR1732-001	PIN TRANSF	
△T921	QQS0412-001	SW TRANSF	
CN00A	QJL001-050600-E	SIN CR B-B WIRE	
CN00T	QJK002-053220-E	SIN CR B-B WIRE	
CN00U	QJK002-042624-E	SIN CR C-B WIRE	
△CP951	QMFZ052-2R0Z-E	FUSE	2A
△CP952	ICP-N38-T	IC PROTECTOR	1.5A
△CP953	ICP-N25-T	IC PROTECTOR	1.0A
△CP954	ICP-N38-T	IC PROTECTOR	1.5A
△CP955	ICP-N50-T	IC PROTECTOR	2.0A
△F901	QMF51E2-4R0-S	FUSE	4A AC250V
J001	QNN0384-001	PIN JACK	VIDEO AUDIO IN/ OUT(REAR)
J002	QNS0197-001	3.5 JACK	HEADPHONE
J003	QNN0706-001	PIN JACK	VIDEO IN(FRONT)
J004	QNN0706-002	PIN JACK	AUDIO IN(FRONT)
K001	QQR1114-001Z	FERRITE BEADS	
K712	QQR1113-001Z	FERRITE BEADS	
K901	QQR1114-001Z	FERRITE BEADS	
K951	QQR1113-001Z	FERRITE BEADS	
K952	QQR1113-001Z	FERRITE BEADS	
K953	QQR1113-001Z	FERRITE BEADS	
K954	QQR1113-001Z	FERRITE BEADS	
K955	QQR1113-001Z	FERRITE BEADS	
K958	QQR1114-001Z	FERRITE BEADS	
△LF901	QQR1635-001	LINE FILTER	
△LF902	QQR0673-004	LINE FILTER	
△PC901	PS2581AL1/QW/	PHOTO COUPLER	
△RY901	QSK0061-001	RELAY	
S701	QSW0619-003Z	PUSH SWITCH	VOL+
S702	QSW0619-003Z	PUSH SWITCH	VOL-
S703	QSW0619-003Z	PUSH SWITCH	CH+
S704	QSW0619-003Z	PUSH SWITCH	CH-
S705	QSW0619-003Z	PUSH SWITCH	MENU
△S901	QSW0846-001	PUSH SWITCH	POWER
SF101	QAX0921-001	SAW FILTER	
△TH901	QAD0134-4R5	P THERMISTOR	4.5Ω
TU001	QAU0466-002	TUNER	
△VA901	QAF0060-621	VARISTOR	620V
X710	QAX0717-001Z	CRYSTAL	8.000MHz

### CRT SOCKET P.W. BOARD ASS'Y (SCQ-3003A-H2)

△Ref No.	Part No.	Part Name	Description Local
Q351	2SC4212/Z1/	TRANSISTOR	
Q352	2SC4212/Z1/	TRANSISTOR	
Q353	2SC4212/Z1/	TRANSISTOR	
Q354	KTA1267/YG/-T	TRANSISTOR	
D354	1SS244-T3	SI DIODE	
D355	1SS244-T3	SI DIODE	
D356	1SS244-T3	SI DIODE	
D357	1SS244-T3	SI DIODE	
C351	QFZ0097-103	MM CAPACITOR	0.01uF 1250V K
C352	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C354	QCS31HJ-331Z	C CAPACITOR	330pF 50V J
C355	QDC31HJ-271Z	C CAPACITOR	270pF 50V J
C356	QCS31HJ-391Z	C CAPACITOR	390pF 50V J
C357	QETN1AM-477Z	E CAPACITOR	470uF 10V M
R351	QRE141J-151Z	C RESISTOR	150Ω 1/4W J
R352	QRE141J-151Z	C RESISTOR	150Ω 1/4W J
R353	QRE141J-151Z	C RESISTOR	150Ω 1/4W J
R354	QRE141J-331Z	C RESISTOR	330Ω 1/4W J
R355	QRE141J-331Z	C RESISTOR	330Ω 1/4W J
R356	QRE141J-331Z	C RESISTOR	330Ω 1/4W J
R357	QRE141J-470Z	C RESISTOR	47Ω 1/4W J
R358	QRE141J-470Z	C RESISTOR	47Ω 1/4W J
R359	QRE141J-470Z	C RESISTOR	47Ω 1/4W J
R360	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R361	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R362	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R363	QRL029J-123	OMF RESISTOR	12kΩ 2W J
R364	QRL029J-123	OMF RESISTOR	12kΩ 2W J
R365	QRL029J-123	OMF RESISTOR	12kΩ 2W J
R366	QRE141J-622Y	C RESISTOR	6.2kΩ 1/4W J
R367	QRE141J-622Y	C RESISTOR	6.2kΩ 1/4W J
R368	QRE141J-622Y	C RESISTOR	6.2kΩ 1/4W J
R373	QRE141J-0R0Z	C RESISTOR	0Ω 1/4W J
CN0E1	QUB130-30A6AS-E	SIN TWIST WIRE	
△SK351	QNZ0536-002	CRT SOCKET	

## **SECTION 1 PRECAUTION**

Please refer to "AV-2100QE ([No.YA552](#))" about this section.

## **SECTION 2 SPECIFIC SERVICE INSTRUCTIONS**

Please refer to "AV-2100QE ([No.YA552](#))" about this section.

## **SECTION 3 DISASSEMBLY**

Please refer to "AV-2100QE ([No.YA552](#))" about this section.

## **SECTION 4 ADJUSTMENT**

Please refer to "AV-2100QE ([No.YA552](#))" about this section.

## **SECTION 5 TROUBLESHOOTING**

Please refer to "AV-2100QE ([No.YA552](#))" about this section.

# **JVC**

Victor company of Japan, Limited  
Display category 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

(No.YA552B)

# JVC

## SERVICE MANUAL

### COLOUR TELEVISION

**AV-2100QE, AV-2100QE<sub>/B</sub>, AV-2100QE<sub>/KBSK</sub>,  
AV-2100QE<sub>/KSK</sub>, AV-2100QE<sub>/NSK</sub>, AV-21Q17,  
AV-21Q17<sub>/B</sub>, AV-21Q17<sub>/L</sub>, AV-21Q17<sub>/LB</sub>,  
AV-21QMG7<sub>/G</sub>, AV-21QMG7<sub>/GB</sub>, AV-21QMG7<sub>/S</sub>,  
AV-21QMG7B<sub>/G</sub>**

BASIC CHASSIS

CQ

Supplementary

Please be informed that there are errors in the following service manuals.

AV-2100QE, AV-21Q17, AV-21Q17/L, AV-21QMG7/G, AV-21QMG7/S, AV-21QMG7B/G ([No.YA552](#), 2007/9)

AV-2100QE/KSK, AV-2100QE/NSK ([No.YA552B](#), 2007/10)

AV-2100QE/B, AV-2100QE/KBSK, AV-21Q17/B, AV-21Q17/LB, AV-21QMG7/GB ([No.YA552C](#), 2008/8)

## CORRECTION ITEM

### PRINTED WIRING BOARD PARTS LIST [AV-2100QE, AV-2100QE/KSK, AV-2100QE/B, AV-2100QE/KBSK]

MAIN P.W. BOARD ASS'Y (Page 3-5)

△	Ref. No.	Part No.		PART NAME	DESCRIPTION
		INCORRECT	CORRECT		
	IC702	ATE08-14UMG7	ATE08-21QMG7	IC	(SERVICE)

### PRINTED WIRING BOARD PARTS LIST [AV-21Q17, AV-21Q17/B]

MAIN P.W. BOARD ASS'Y (Page 3-8)

△	Ref. No.	Part No.		PART NAME	DESCRIPTION
		INCORRECT	CORRECT		
	IC702	ATE08-14UMG7	ATE08-21QMG7	IC	(SERVICE)



## PRINTED WIRING BOARD PARTS LIST [AV-21Q17/L,AV-21Q17/LB]

MAIN P.W. BOARD ASS'Y (Page 3-11)

△	Ref. No.	Part No.		PART NAME	DESCRIPTION
		INCORRECT	CORRECT		
	IC702	ATE08-14UMG7	ATE08-21QMG7	IC	(SERVICE)

## PRINTED WIRING BOARD PARTS LIST [AV-21QMG7/S]

MAIN P.W. BOARD ASS'Y (Page 3-14)

△	Ref. No.	Part No.		PART NAME	DESCRIPTION
		INCORRECT	CORRECT		
	IC702	ATE08-14UMG7	ATE08-21QMG7	IC	(SERVICE)

## PRINTED WIRING BOARD PARTS LIST [AV-21QMG7/G,AV-21QMG7B/G,AV-21QMG7/GB]

MAIN P.W. BOARD ASS'Y (Page 3-17)

△	Ref. No.	Part No.		PART NAME	DESCRIPTION
		INCORRECT	CORRECT		
	IC702	ATE08-14UMG7	ATE08-21QMG7	IC	(SERVICE)

## PRINTED WIRING BOARD PARTS LIST [AV-2100QE/NSK]

MAIN P.W. BOARD ASS'Y (Additionally: [No.YA552B](#) Page 1-3)

△	Ref. No.	Part No.		PART NAME	DESCRIPTION
		INCORRECT	CORRECT		
	IC702	ATE08-2100BENS	ATE08-21QMG7	IC	(SERVICE)

**SECTION 1  
PRECAUTION**

Please refer to "AV-2100QE ([No.YA552](#))" about this section.

**SECTION 2  
SPECIFIC SERVICE INSTRUCTIONS**

Please refer to "AV-2100QE ([No.YA552](#))" about this section.

**SECTION 3  
DISASSEMBLY**

Please refer to "AV-2100QE ([No.YA552](#))" about this section.

**SECTION 4  
ADJUSTMENT**

Please refer to "AV-2100QE ([No.YA552](#))" about this section.

**SECTION 5  
TROUBLESHOOTING**

Please refer to "AV-2100QE ([No.YA552](#))" about this section.



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