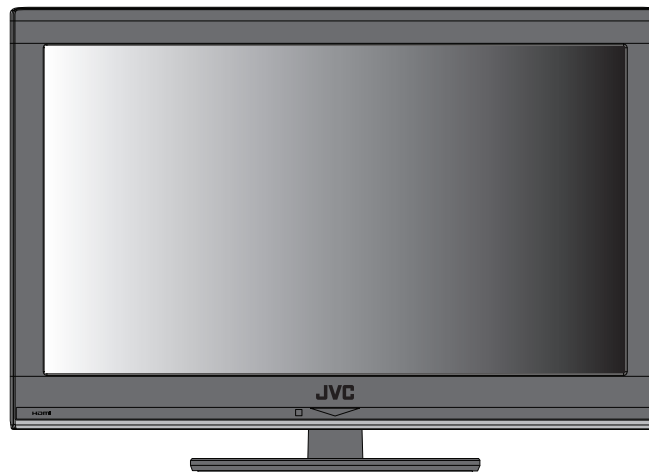


# JVC

## SERVICE MANUAL

### LCD COLOUR TELEVISION

**LT-22EX19/AT, LT-22EX19/BAT,  
LT-22EX19/EAT, LT-22EX19/LAT,  
LT-22EX19/MAT, LT-22EX19/NASK,  
LT-22EX19/SAT, LT-22EX19/VASK**



BASIC CHASSIS

FU2

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

#### <FU2 CHASSIS LINEUP>

<a href="#">No.YA587</a> : LT-32EX18 SERIES	<a href="#">No.YA645</a> : LT-32BX18 SERIES	<a href="#">No.YA649</a> : LT-32BX38 SERIES
<a href="#">No.YA644</a> : LT-32FX38 SERIES	<a href="#">No.YA645</a> : LT-32BX38 SERIES	<a href="#">No.YA588</a> : LT-42EX18 SERIES
<a href="#">No.YA655</a> : LT-26KM18/28 SERIES	<a href="#">No.YA663</a> : LT-26EX18 SERIES	<a href="#">No.YA674</a> : LT-22EX19 SERIES

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# SPECIFICATION

For LT-22EX19/AT, LT-22EX19/BA, LT-22EX19/EAT, LT-22EX19/LAT, LT-22EX19/NASK, LT-22EX19/SAT, LT-22EX19/VASK

Items		Contents
Dimensions ( W × H × D )		53.8 cm × 38.8 cm × 24.0 cm [with stand] 53.8 cm × 34.9 cm × 6.59 cm [without stand]
Mass		5.4 kg [with stand] 4.6 kg [without stand]
Power Input		AC110V - AC240 V, 50 Hz / 60 Hz [Others models] AC220V - AC240 V, 50 Hz / 60 Hz [LT-22EX19/EAT,LT-22EX19/NASK only]
Power Consumption		51 W (Standby:1.6 W)
TV RF System		B, G, I, D, K, M
Colour System		PAL / SECAM / NTSC 3.58 / NTSC 4.43
Stereo System		A2 (B/G, D/K), NICAM (B/G, I, D/K)
Teletext System		FLOF (Fastext), WST (World Standard System)
Receiving Frequency	VHF Low VHF High UHF CATV	46.25 MHz - 140.25 MHz 147.25 MHz - 423.25 MHz 431.25 MHz - 863.25 MHz Mid (X - Z+2, S1 - S10) / Super (S11 - S20) / Hyper (S21 - S41) bands
Intermediate Frequency	VIF SIF	38.9 MHz (B, G, I, D, K, M) 32.26 MHz (5.74 MHz: B), 32.15 MHz (5.85 MHz: G), 31.45 MHz (6.55 MHz: I) 31.75 MHz (6.25 MHz: D), 32.15 MHz (5.85 MHz: K)
Colour Sub Carrier	PAL SECAM NTSC	4.43 MHz 4.40625 MHz / 4.25 MHz 3.58 MHz / 4.43 MHz
LCD panel		22 V-inch wide aspect (16 : 9)
Screen Size		Diagonal : 54.8 cm (H: 47.9 cm × V:27.0 cm)
Display Pixels		Horizontal : 1366 pixels × Vertical : 768 pixels (W-XGA)
Audio Power Output		3 W + 3 W
Speaker		6.3 cm × 3.5 cm, oval type × 2
Aerial terminal (VHF/UHF)		75 Ω unbalanced, coaxial
Video / Audio Input-1	Component Video 750p / 1125i 625p / 525p / 625i / 525i	RCA pin jack × 3 Y : 1V (p-p) (Sync signal: ±0.35V(p-p), 3-value sync.), 75 Ω / Pb/Pr : ±0.35V(p-p), 75 Ω Y : 1V (p-p), Positive (Negative sync provided), 75 Ω / Pb/Pr : 0.7V(p-p), 75 Ω
	Video	1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 1
	Audio	500mV (rms), High impedance, RCA pin jack × 2
Video / Audio Input-2	Video	1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 1
	Audio	500mV (rms), High impedance, RCA pin jack × 2
PC (RGB) Input	Video	D-sub 15 pin × 1 R/G/B : 0.7 V (p-p), 75Ω HD / VD : 1 V (p-p) to 5 V (p-p), high impedance < Available signal > VGA : 640 pixels × 480 pixels (Horizontal : 31.5 kHz / Vertical : 60 Hz) XGA : 1024 pixels × 768 pixels (Horizontal : 48.4 kHz / Vertical : 60 Hz)
	Audio	3.5 mm stereo mini jack × 1
HDMI Input	Video	HDMI connector × 2 (Digital-input terminal is not compatible with picture signals of computer signal)
	Audio	Digital: HDMI connector × 2 Analog: 500mV(rms) (-4dBs), high impedance, RCA pin jack × 2 [HDMI-1]
Headphone		3.5 mm stereo mini jack × 1
Remote Control Unit		RM-C2020 (UM-3/AAA/R6 dry cell battery × 2)

Design & specifications are subject to change without notice.

**For LT-22EX19/MAT**

Items		Contents
Dimensions ( W × H × D )		53.8 cm × 38.8 cm × 24.0 cm [with stand] 53.8 cm × 34.9 cm × 6.59 cm [without stand]
Mass		5.4 kg [with stand] 4.6 kg [without stand]
Power Input		AC110V - AC240 V, 50 Hz / 60 Hz
Power Consumption		51 W (Standby:1.6 W)
TV RF System		For Area-1 setting : B, G, I, D, K, M For Area-2 setting : M, N
Colour System		For Area-1 setting : PAL / SECAM / NTSC 3.58 / NTSC 4.43 For Area-2 setting : NTSC / PAL-M / PAL-N
Stereo System		For Area-1 setting : A2 (B/G, D/K), NICAM (B/G, I,DK) For Area-2 setting : MTS (Multi-channel Television Sound)
Teletext System		For Area-1 setting : FLOF (Fastext), WST (World Standard System) For Area-2 setting : CLOSED CAPTION
Receiving Frequency	VHF Low VHF High UHF CATV	46.25 MHz - 140.25 MHz (Area-1) / 55.25MHz - 127.25MHz (Area-2) 147.25 MHz - 423.25 MHz (Area-1) / 133.25MHz - 361.25MHz (Area-2) 431.25 MHz - 863.25 MHz (Area-1) / 367.25MHz - 801.25MHz (Area-2) Mid (X - Z+2, S1 - S10) / Super (S11 - S20) / Hyper (S21 - S41) bands
Intermediate Frequency	VIF SIF	38.9 MHz (B, G, I, D, K, M) 32.26 MHz (5.74 MHz: B), 32.15 MHz (5.85 MHz: G), 31.45 MHz (6.55 MHz: I) 31.75 MHz (6.25 MHz: D), 32.15 MHz (5.85 MHz: K)
Colour Sub Carrier	PAL SECAM NTSC	4.43 MHz 4.40625 MHz / 4.25 MHz 3.58 MHz / 4.43 MHz
LCD panel		22 V-inch wide aspect (16 : 9)
Screen Size		Diagonal : 54.8 cm (H: 47.9 cm × V:27.0 cm)
Display Pixels		Horizontal : 1366 pixels × Vertical : 768 pixels (W-XGA)
Audio Power Output		3 W + 3 W
Speaker		6.3 cm × 3.5 cm, oval type × 2
Aerial terminal (VHF/UHF)		75 Ω unbalanced, coaxial
Video / Audio Input-1	Component Video	RCA pin jack × 3
	750p / 1125i	Y : 1V (p-p) (Sync signal: ±0.35V(p-p), 3-value sync.), 75 Ω / Pb/Pr : ±0.35V(p-p), 75 Ω
	625p / 525p / 625i / 525i	Y : 1V (p-p), Positive (Negative sync provided), 75 Ω / Pb/Pr : 0.7V(p-p), 75 Ω
	Video	1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 1
	Audio	500mV (rms), High impedance, RCA pin jack × 2
Video / Audio Input-2	Video	1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 1
	Audio	500mV (rms), High impedance, RCA pin jack × 2
PC (RGB) Input	Video	D-sub 15 pin × 1 R/G/B : 0.7 V (p-p), 75Ω HD / VD : 1 V (p-p) to 5 V (p-p), high impedance < Available signal > VGA : 640 pixels × 480 pixels (Horizontal : 31.5 kHz / Vertical : 60 Hz) XGA : 1024 pixels × 768 pixels (Horizontal : 48.4 kHz / Vertical : 60 Hz)
	Audio	3.5 mm stereo mini jack × 1
HDMI Input	Video	HDMI connector × 2 (Digital-input terminal is not compatible with picture signals of computer signal)
	Audio	Digital: HDMI connector × 2 Analog: 500mV(rms) (-4dBs), high impedance, RCA pin jack × 2 [HDMI-1]
Headphone		3.5 mm stereo mini jack × 1
Remote Control Unit		RM-C2020 (UM-3/AAA/R6 dry cell battery × 2)

Design & specifications are subject to change without notice.

# SECTION 1

## PRECAUTION

### 1.1 SAFETY PRECAUTIONS

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (  $\Delta$  ) 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) : (  $\equiv$  ) 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) 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.

#### (6) 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

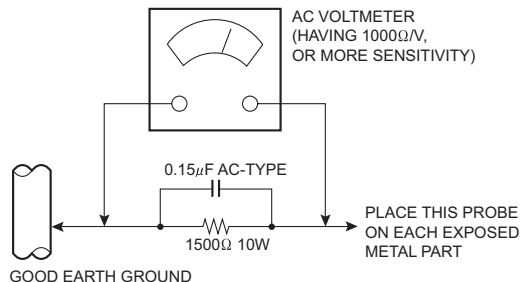
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. ( . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated 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 0.7mA AC (r.m.s.). However, in tropical area, this must not exceed 0.35V AC (r.m.s.). This corresponds to 0.3mA AC (r.m.s.).

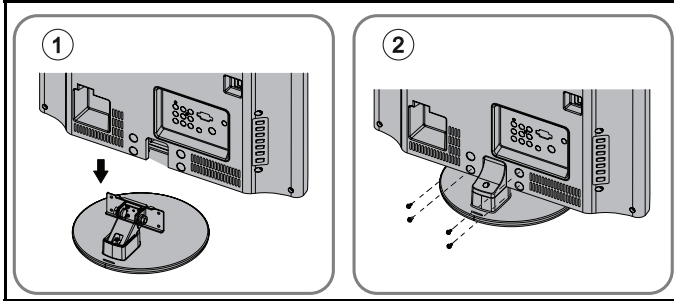


## 1.2 INSTALLATION

### 1.2.1 ATTACH THE STAND TO THE TV

When installing the unit on the floor, it is required to attach the supplied stand.

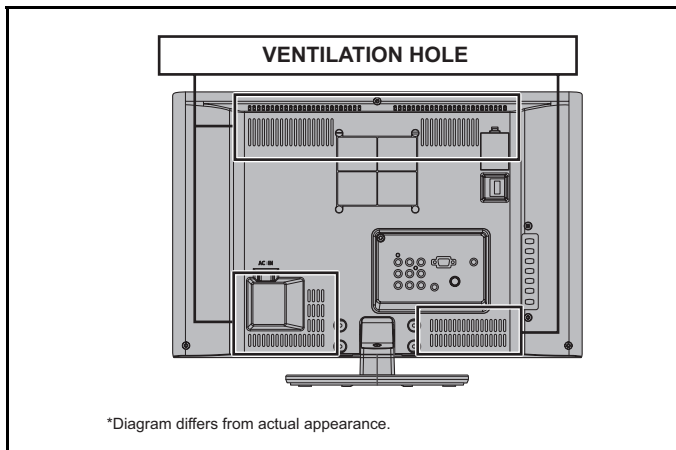
To attach the stand to the TV, follow the procedure below.



To prevent scratches on the panel, lay a piece of soft cloth on an even platform and place the TV onto it.

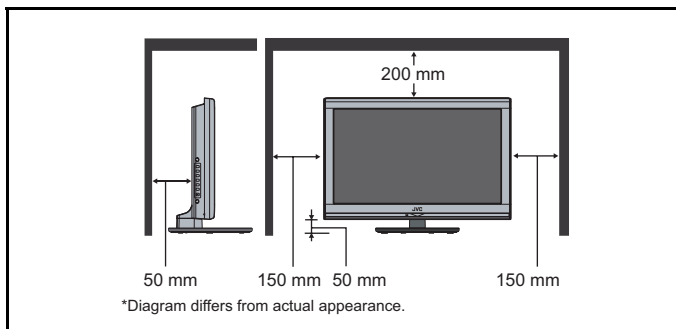
### 1.2.2 HEAT DISSIPATION

If the heat dissipation vent behind this unit is blocked, cooling efficiency may deteriorate and temperature inside the unit will rise. The temperature sensor that protects the unit will be activated when internal temperature exceeds the pre-determined level and power will be turned off automatically. Therefore, please make sure pay attention not to block the heat dissipation vent as well as the ventilation outlet behind the unit and ensure that there is room for ventilation around it.



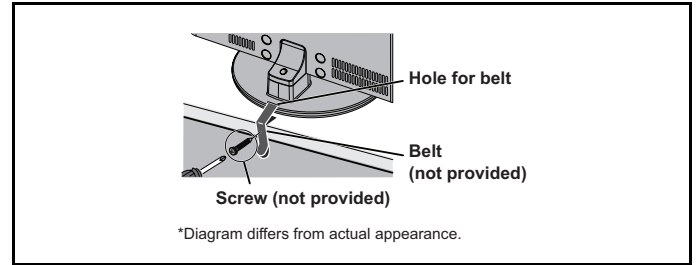
### 1.2.3 INSTALLATION REQUIREMENTS

Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls, as well as the floor etc. Install the unit on stable flooring or stands. Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.



### 1.2.4 INSTALLATION REQUIREMENTS

To ensure safety in an emergency such as an earthquake, and to prevent accidents, ensure that measures are taken to prevent the TV dropping or falling over.



### 1.2.5 NOTES ON HANDLING

When taking the unit out of a packing case, do not grasp the upper part of the unit. If you take the unit out while grasping the upper part, the LCD PANEL may be damaged because of a pressure. Instead of grasping the upper part, put your hands on the lower backside or sides of the unit.

## 1.3 HANDLING LCD PANEL

### 1.3.1 PRECAUTIONS FOR TRANSPORTATION

When transporting the unit, pressure exerted on the internal LCD panel due to improper handling (such as tossing and dropping) may cause damages even when the unit is carefully packed. To prevent accidents from occurring during transportation, pay careful attention before delivery, such as through explaining the handling instructions to transporters.

Ensure that the following requirements are met during transportation, as the LCD panel of this unit is made of glass and therefore fragile:

- (1) **USE A SPECIAL PACKING CASE FOR THE LCD PANEL**  
When transporting the LCD panel of the unit, use a special packing case (packing materials). A special packing case is used when a LCD panel is supplied as a service spare part.
- (2) **ATTACH PROTECTION SHEET TO THE FRONT**  
Since the front (display part) of the panel is vulnerable, attach the protection sheet to the front of the LCD panel before transportation. Protection sheet is used when a LCD panel is supplied as a service spare part.
- (3) **AVOID VIBRATIONS AND IMPACTS**  
The unit may be broken if it is toppled sideways even when properly packed. Continuous vibration may shift the gap of the panel, and the unit may not be able to display images properly. Ensure that the unit is carried by at least 2 persons and pay careful attention not to exert any vibration or impact on it.
- (4) **DO NOT PLACE EQUIPMENT HORIZONTALLY**  
Ensure that it is placed upright and not horizontally during transportation and storage as the LCD panel is very vulnerable to lateral impacts and may break. During transportation, ensure that the unit is loaded along the traveling direction of the vehicle, and avoid stacking them on one another. For storage, ensure that they are stacked in 2 layers or less even when placed upright.

### 1.3.2 OPTICAL FILTER (ON THE FRONT OF THE LCD PANEL)

- (1) Avoid placing the unit under direct sunlight over a prolonged period of time. This may cause the optical filter to deteriorate in quality and COLOUR.
- (2) Clean the filter surface by wiping it softly and lightly with a soft and lightly fuzz cloth (such as outing flannel).
- (3) Do not use solvents such as benzene or thinner to wipe the filter surface. This may cause the filter to deteriorate in quality or the coating on the surface to come off. When cleaning the filter, usually use the neutral detergent diluted with water. When cleaning the dirty filter, use water-diluted ethanol.
- (4) Since the filter surface is fragile, do not scratch or hit it with hard materials. Be careful enough not to touch the front surface, especially when taking the unit out of the packing case or during transportation.

### 1.3.3 PRECAUTIONS FOR REPLACEMENT OF EXTERIOR PARTS

Take note of the following when replacing exterior parts (REAR COVER, FRONT PANEL, etc.):

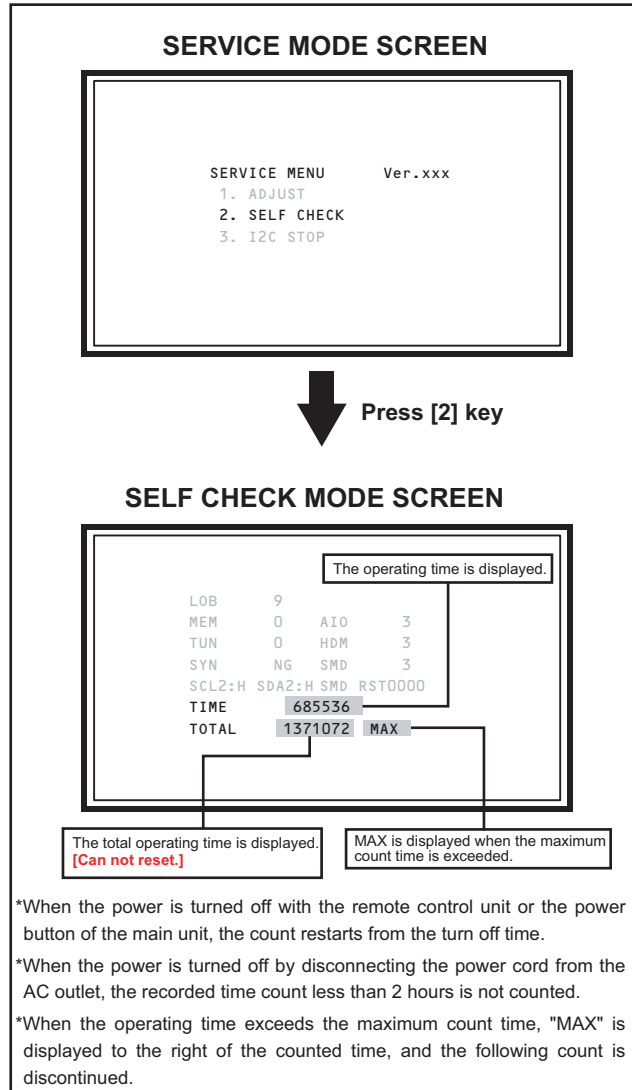
- (1) Do not exert pressure on the front of the LCD panel (filter surface). It may cause irregular COLOUR.
- (2) Pay careful attention not to scratch or stain the front of the LCD panel (filter surface) with hands.
- (3) When replacing exterior parts, the front (LCD panel) should be placed facing downward. Place a mat, etc. underneath to avoid causing scratches to the front (filter surface).

### 1.3.4 HOW TO CHECK THE OPERATING TIME

This model has a function to count and record the LCD panel operating time. The operating time can be checked in the following procedure.

- Maximum count time = 131072 hours

- (1) Press the **[DISPLAY]** key and **[MUTING]** key simultaneously, then enter the SERVICE MODE.
- (2) When the Main Menu is displayed, press **[2]** key to enter the self check mode.
- (3) The operating time of the LCD panel is displayed in 6 -digit decimal number.(Refer to the below figure)



### 1.3.5 HOW TO RESET THE OPERATING TIME

- (1) Press the **[DISPLAY]** key and **[MUTING]** key simultaneously, then enter the SERVICE MODE.
- (2) When the Main Menu is displayed, press **[2]** key to enter the self check mode.
- (3) When the self check screen is displayed, press **[ZOOM]** key to reset the operating time.

#### NOTE:

- When the LCD PANEL UNIT is replaced, be sure to reset the operating time following the above method.
- Cannot reset Total operating time.

## SECTION 2

### SPECIFIC SERVICE INSTRUCTIONS

#### 2.1 FEATURES

##### Clear SD

LCD picture is unstable due to a large number of signal noise. Such noise appears extensively especially when an LCD displays SD signals. Clear SD mode resolves disadvantage for better picture quality.

##### HDMI INPUT

By connecting a HDMI compatible device, high definition pictures can be displayed on your TV in their digital form.

##### COLOUR MANAGEMENT

This function ensures dull colours are compensated to produce natural hues.

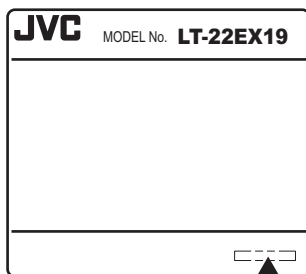
#### 2.2 MAIN DIFFERENCE LIST

Item	LT-22EX19/AT	LT-22EX19/BAT	LT-22EX19/EAT	LT-22EX19/LAT
Power Input	AC110V - AC240V	AC110V - AC240V	AC220V - AC240V	AC110V - AC240V
Plug Type	Round pin(BU) type	Round pin(BU) type	Round pin(BU) type	Round pin(BU) type
OSD Language	Eng/Chi/Rus/Ara/Fre/Thai Viet/Ukr/Spa/Mal	Eng/Chi/Rus/Ara/Fre/Thai Viet/Ukr/Spa/Mal	Eng/Chi/Rus/Ara/Fre/Thai Viet/Ukr/Spa/Mal	Eng/Chi/Rus/Ara/Fre/Thai Viet/Ukr/Spa/Mal
Stereo system	A2/NICAM	A2/NICAM	A2/NICAM	A2/NICAM
Teletext	FLOF/WST	FLOF/WST	FLOF/WST	FLOF/WST
DIGITAL PWB	SFU0D554A-H2	SFU0D554A-H8	SFU0D554A-H2	SFU0D554A-H2
LED+IR PWB	SFU-8515A-H2	SFU-8515A-H8	SFU-8515A-H2	SFU-8515A-H2
SW PWB	SFU-7527A-H2	SFU-7527A-H8	SFU-7527A-H2	SFU-7527A-H2
ANALOG PWB	SFU-1517A-H2	SFU-1517A-H8	SFU-1517A-H2	SFU-1517A-H2

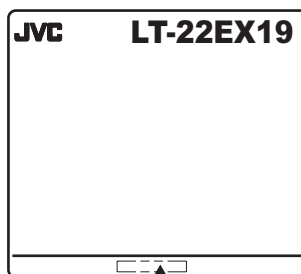
Item	LT-22EX19/MAT	LT-22EX19/NASK	LT-22EX19/SAT	LT-22EX19/VASK
Power Input	AC110V - AC240V	AC220V - AC240V	AC110V - AC240V	AC110V - AC240V
Plug Type	Round pin type	Round pin(BU) type	UK Type	Round pin(BU) type
OSD Language	Eng/Rus/Spa/Por	Eng/Chi/Rus/Ara/Fre/Thai Viet/Ukr/Spa/Mal	Eng/Chi/Rus/Ara/Fre/Thai Viet/Ukr/Spa/Mal	Eng/Chi/Rus/Ara/Fre/Thai Viet/Ukr/Spa/Mal
Stereo system	A2/NICAM/MTS	A2/NICAM	A2/NICAM	A2/NICAM
Teletext	FLOF/WST/CLOSED CAPTION	FLOF/WSTFLOF/WST FLOF/WST	FLOF/WSTFLOF/WST FLOF/WST	FLOF/WSTFLOF/WST FLOF/WST
DIGITAL PWB	SFU0D559A-H2	SFU0D561A-H2	SFU0D557A-H2	SFU0D562A-H2
LED+IR PWB	SFU-8515A-H2	SFU-8517A-H2	SFU-8515A-H2	SFU-8515A-H2
SW PWB	SFU-7527A-H2	SFU-7529A-H2	SFU-7527A-H2	SFU-7527A-H2
ANALOG PWB	SFU-1517A-H2	SFU-1520A-H6	SFU-1517A-H2	SFU-1517A-H2

#### 2.3 HOW TO IDENTIFY MODELS

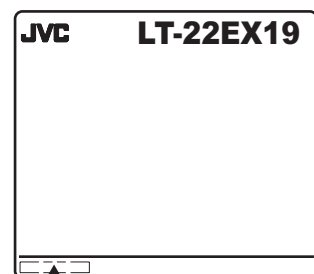
Distinguish name is added at the bottom of the rating label.



LT-22EX19AT  
LT-22EX19SAT  
22EX19VA-SK



LT-22EX19BAT  
LT-22EX19LAT



LT-22EX19EAT  
LT-22EX19MAT  
22EX19NA-SK

## 2.4 TECHNICAL INFORMATION

### 2.4.1 LCD PANEL

This unit uses the flat type panel LCD (Liquid Crystal Display) panel that occupies as little space as possible, instead of the conventional CRT (Cathode Ray Tube), as a display unit.

This panel adopts "normally white" mode where the transmittance or reflective rate is maximum, and the screen is white when no voltage is applied.

#### 2.4.1.1 SPECIFICATIONS

The following table shows the specifications of this unit.

Item	Specifications
Maximum dimensions ( W × H × D )	50.1 cm × 29.7 cm × 1.73 cm
Weight	2.35 kg
Screen size	Diagonal : 54.8 cm (H: 47.9 cm × V:27.0 cm)
Aspect ratio	16 : 9
Drive device / system	a-Si-TFT active matrix system
Resolution	Horizontally 1366 × Vertically 768 × RGB <W-XGA> 3147264 dots in total
Pixel pitch (pixel size)	Horizontally: 0.1165 mm, Vertically: 0.3495 mm
Displayed colour	16777216 colours 256 colours for R G and B
Brightness	400 cd/m <sup>2</sup>
Contrast ratio	800 : 1
Response time (Tr)	less than 1.3 ms
View angle (Horizontally)	170°
View angle (Vertically)	160°
Surface polarizer	Anti-Glare type Low reflective coat
Colour filter	Vertical stripe
Backlight	Cold cathode fluorescent lamp × 4
Power supply voltage in LCD	5 V
Panel interface system	LVDS (Low Voltage Differential Signaling)

#### 2.4.1.2 PIXEL FAULT

There are three pixel faults - bright fault, dark fault and flicker fault - that are respectively defined as follows.

##### ■ BRIGHT FAULT

In this pixel fault, a cell that should not light originally is lighting on and off.

For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting on and off.

##### ■ DARK FAULT

In this pixel fault, a cell that should light originally is not lighting or lighting with the brightness twice as brighter as originally lighting.

For checking this pixel fault, input 100% of each R/G/B colour and find out the cell that is not lighting.

##### ■ FLICKER FAULT

In the pixel fault, a cell that should light originally or not light originally is flashing on and off.

For checking this pixel fault, input ALL BLACK SCREEN signal or 100% of each RGB colour and find out the cell that is flashing on and off.



## 2.4.2 MAIN CPU PIN FUNCTION [IC7001 : DIGITAL PWB]

Pin	Pin name	I/O	Function
1	DGND	-	GND
2	NC	-	Not used
3	NC	-	Not used
4	VDD33	-	3.3V power supply
5	VSS33	-	GND
6	VDD18	-	1.8V power supply
7	VSS18	-	GND
8	SSIN1	I	V sync for Input-1
9	SSIN2	I	V sync for PC
10	VOUTA	-	Not used
11	VIN1A	I	Video for Input-1
12	ADCVSSA	-	GND
13	VIN2A	I	Y for Input-1
14	ADCVDDA	-	3.3V power supply
15	VIN3A	I	G for PC
16	VREFA	I	Reference voltage setting
17	VIN4A	I	Not used
18	VRPA	I	Reference voltage setting
19	VIN5A	I	Video for Input-2
20	VRMA	I	Reference voltage setting
21	VIN6A	I	Video for VHF/UHF tuner
22	ADCVSSB	-	GND
23	VIN1B	I	Not used
24	ADCVddb	-	3.3V power supply
25	VIN2B	I	Pb for Input-1
26	VREFB	I	Reference voltage setting
27	VIN3B	I	B for PC
28	VRPB	I	Reference voltage setting
29	VIN4B	I	Not used
30	VRMB	I	Reference voltage setting
31	VINFB	I	Not used
32	DVSSABC	-	GND
33	DVDDABC	-	3.3V power supply
34	VINMX	I	Not used
35	ADCVSSC	-	GND
36	VIN1C	I	Not used
37	ADCVDDC	-	3.3V power supply
38	VIN2C	I	Pr for Input-1
39	VREFC	I	Reference voltage setting
40	VIN3C	I	R for PC
41	VRPC	I	Reference voltage setting
42	VRMC	I	Reference voltage setting
43	PLL1VDD33A	-	3.3V power supply
44	LPF1	I	LPF setting for PLL
45	PLL1VSS33A	-	GND
46	PLL1VDDD	-	3.3V power supply
47	PLL1VSSD	-	GND
48	VDD18	-	1.8V power supply
49	VSS18	-	GND
50	VDD33	-	3.3V power supply
51	VSS33	-	GND
52	NC	-	Not used
53	NC	-	Not used
54	DGND	-	GND
55	VCCQ10	-	1.0V power supply

Pin	Pin name	I/O	Function
56	MCLK	O	Not used
57	SDITDO	O	Data for SDI
58	SDITDI	I	Data for SDI
59	SDITCK	I	Clock for SDI
60	SDITRST	I	Reset for SDI
61	IISSD	O	Not used
62	IISWS	O	Not used
63	IISCK	O	Not used
64	VCCQ33	-	3.3V power supply
65	VREF1	I	Reference voltage setting
66	VREF2	I	Reference voltage setting
67	SIF	I	SIF for VHF/UHF tuner
68	SAVDD	-	3.3V power supply
69	SXIN	I	36.864MHz oscillation for sampling clock
70	SXOUT	O	36.864MHz oscillation for sampling clock
71	TEST0	I	Test mode setting [L fixed]
72	TEST1	I	Test mode setting [L fixed]
73	VCCQ10	-	1.0V power supply
74	SDITMS	I	Mode select for SDI
75	ROUT	O	Audio (Right) for Monitor out
76	VCOM	I	Reference voltage setting
77	LOUT	O	Audio (Left) for Monitor out
78	AVDDPLL	-	3.3V power supply
79	PLLXFCA	I	Filter setting for HDMI
80	AVSSPLL	-	GND
81	PLLXFCA	I	Filter setting for HDMI
82	AVSSPLL	-	GND
83	PLLXFCX	I	Filter setting for HDMI
84	AVSSPLL	-	GND
85	PWR	I	Power status detect for HDMI
86	SCL	O	Clock for I <sup>2</sup> C bus (for HDMI)
87	SDA	I/O	Data for I <sup>2</sup> C bus (for HDMI)
88	VSSE	-	GND
89	VDDE	-	3.3V power supply
90	AVDDHDMI	-	3.3V power supply
91	RXCN	I	TMDS clock for HDMI
92	RXCP	I	TMDS clock for HDMI
93	AVSSHDMI	-	GND
94	RX0N	I	TMDS data for HDMI
95	RX0P	I	TMDS data for HDMI
96	AVSSHDMI	-	GND
97	AVDDHDMI	-	3.3V power supply
98	AVSSHDMI	-	GND
99	RX1N	I	TMDS data for HDMI
100	RX1P	I	TMDS data for HDMI
101	AVDDHDMI	-	3.3V power supply
102	AVDDHDMI	-	3.3V power supply
103	RX2N	I	TMDS data for HDMI
104	RX2P	I	TMDS data for HDMI
105	AVSSHDMI	-	GND
106	EXTRES	I	For external resistor
107	PVDD	-	3.3V power supply
108	PVSS	-	GND
109	VCCQ10	-	1.0V power supply
110	MPSEL	I	Mode select for external operation [External = L]

Pin	Pin name	I/O	Function
111	SDVDD	-	3.3V power supply
112	XOUT	O	27MHz oscillation for CPU system clock
113	XIN	I	27MHz oscillation for CPU system clock
114	RESET	I	CPU reset [Reset = L]
115	VCCQ33	-	3.3V power supply
116	SCK	O	Clock for external flash memory
117	VCCQ10	-	1.0V power supply
118	VDDQ	-	GND
119	SDI	I	Data for external flash memory
120	SDO	O	Data for external flash memory
121	VCCQ10	-	1.0V power supply
122	CS	O	Chip select for external flash memory
123	PXD00	O	Reset for HDMI-1 [Reset = L]
124	PXD01	-	Not used
125	PXD02	-	Not used
126	PXD03	-	Not used
127	PXD04	O	For digital input protection
128	PXD05	-	Not used
129	VCCQ10	-	1.0V power supply
130	PXD06	-	Not used
131	PXD07	-	Not used
132	VDIN	I	Not used
133	HDIN	I	Not used
134	PXCLK	I	Not used
135	MI_TCON_POW	-	Not used
136	PXD09	-	Not used
137	PXD10	I	Not used
138	PXD11	I	Not used
139	VCCQ33	-	3.3V power supply
140	PXD12	I	Not used
141	PXD13	I	Not used
142	PXD14	I	Not used
143	PXD15	I	Not used
144	SDVDD	-	3.3V power supply
145	VCCQ10	-	1.0V power supply
146	MSN	I	Control signal for external operation
147	MST	I	Clock for external operation
148	VCCQ10	-	1.0V power supply
149	MSD	I	Data for external operation
150	MSQ	O	Data for external operation
151	VCCQ10	-	1.0V power supply
152	VCCQ33	-	3.3V power supply
153	MAVDD	-	3.3V power supply
154	ADIN4	I	Not used
155	ADIN3	I	AFT voltage for VHF/UHF tuner
156	ADIN2	I	Key scan for side control (POWER/CH+/CH-/MENU)
157	ADIN1	I	Key scan for side control (INPUT/VOL+/VOL-)
158	ADIN0	I	Not used
159	PLLMAVDD	-	3.3V power supply
160	PLLDVDD	-	3.3V power supply
161	PLLSAVDD	-	3.3V power supply
162	SDVDD	-	3.3V power supply
163	SDA1	I/O	Data for I <sup>2</sup> C bus (for tuner/audio/HDMI/etc.)
164	VCCQ33	-	3.3V power supply
165	SCL1	O	Clock for I <sup>2</sup> C bus (for tuner/audio/HDMI/etc.)
166	SDA0	I/O	Data for I <sup>2</sup> C bus (for EEPROM)

Pin	Pin name	I/O	Function
167	SCL0	O	Clock for I <sup>2</sup> C bus (for E2PROM)
168	VCCQ33	-	3.3V power supply
169	AUDIO_MUTE	O	Speaker/monitor output muting [Muting = H]
170	REMOTE	I	Remote control sensor input
171	MAIN_POW1	O	Power on/off control for main power [ON = L]
172	LB_POW	O	Power on/off control for low bias line [ON = L]
173	PFC_POW	O	Not used
174	PWD1	-	Not used
175	A_DIM1	O	DC dimming control for back-light inverter
176	VCCQ10	-	1.0V power supply
177	LPF2	I	LPF setting for PLL
178	VDD33BIAS	-	3.3V power supply
179	REFRIN	I	Bias setting for LVDS
180	VSS33BIAS	-	GND
181	ETXOUT3P	O	Not used
182	ETXOUT3M	O	Not used
183	ETXCLKOUTP	O	Not used
184	ETXCLKOUTM	O	Not used
185	VDD33LVDS	-	3.3V power supply
186	ETXOUT2P	O	Not used
187	ETXOUT2M	O	Not used
188	VSS33LVDS	-	GND
189	ETXOUT1P	O	Not used
190	ETXOUT1M	O	Not used
191	ETXOUT0P	O	Not used
192	ETXOUT0M	O	Not used
193	OTXOUT3P	O	LVDS data for LCD panel
194	OTXOUT3M	O	LVDS data for LCD panel
195	OTXCLKOUTP	O	LVDS clock for LCD panel
196	OTXCLKOUTM	O	LVDS clock for LCD panel
197	VDD33LVDS	-	3.3V power supply
198	OTXOUT2P	O	LVDS data for LCD panel
199	OTXOUT2M	O	LVDS data for LCD panel
200	VSS33LDVS	-	GND
201	OTXOUT1P	O	LVDS data for LCD panel
202	OTXOUT1M	O	LVDS data for LCD panel
203	OTXOUT0P	O	LVDS data for LCD panel
204	OTXOUT0M	O	LVDS data for LCD panel
205	PROTECTOR	I	Power abnormality detection [Emergent = H]
206	LCD_POW1	O	Power on/off control for LCD drive [ON = L]
207	BL_ON1	O	Power on/off control for back-light [ON = L]
208	RXD	-	Not used
209	POWER_LED	O	POWER LED(blue) lighting [ON = H]
210	HP_DET	I	Headphone detect [Detect = H]
211	VCCQ10	-	1.0V power supply
212	VCCQ33	-	3.3V power supply
213	SSIN3	I	H sync for PC
214	VCCQ10	-	1.0V power supply
215	NC	-	Not used
216	VCCQ33	-	3.3V power supply

## SECTION 3 DISASSEMBLY

### 3.1 DISASSEMBLY PROCEDURE

- Make sure that the power cord is disconnected from the outlet.
- Pay special attention not to break or damage the parts.
- Make sure that there is no bent or stain on the connectors before inserting, and firmly insert the connectors.
- Be sure to reattach the wire clamps removed during the procedure to the original positions. (Attaching the wire clamps in wrong positions may affect the performance.)

#### REFERENCE:

When removing each board, remove the connector if necessary. The operation is easier if you write down the connection points (connector numbers) of the connector. For connection of each board, refer to the "WIRING DIAGRAM" of the Standard Circuit Diagram.

#### 3.1.1 REMOVING THE STAND (Fig.3-1)

- (1) Remove the 4 screws [A].
- (2) Remove the STAND.

#### 3.1.2 REMOVING THE REAR COVER (Fig.3-1)

- Remove the STAND.
  - (1) Remove the 4 hooks [a], 5 screws [B], 1 screw [C] and 1 screw [D].
  - (2) Remove the REAR COVER.

#### 3.1.3 REMOVING THE POWER UNIT (Fig.3-1)

- Remove the REAR COVER.
- Remove the STAND.
  - (1) Remove the 2 screws [E].
  - (2) Remove the AC BRACKET.
  - (3) Remove the 6 screws [F].
  - (4) Remove the POWER UNIT.

#### 3.1.4 REMOVING THE ANALOG PWB (Fig.3-1)

- Remove the REAR COVER.
  - (1) Remove the 3 screws [G].
  - (2) Remove the ANALOG PWB.

#### 3.1.5 REMOVING THE DIGITAL PWB (Fig.3-1)

- Remove the REAR COVER.
- Remove the STAND.
  - (1) Remove the 4 screws [H].
  - (2) Remove the DIGITAL PWB.

#### 3.1.6 REMOVING THE CONTROL ASSY / SW PWB (Fig.3-1)

- Remove the REAR COVER.
- Remove the STAND.
  - (1) Remove the 2 screws [J].
  - (2) Remove the SW PWB.
  - (3) Remove the 2 screws [K].
  - (4) Remove the CONTROL ASSY.

#### 3.1.7 REMOVING THE SPEAKER (Fig.3-1)

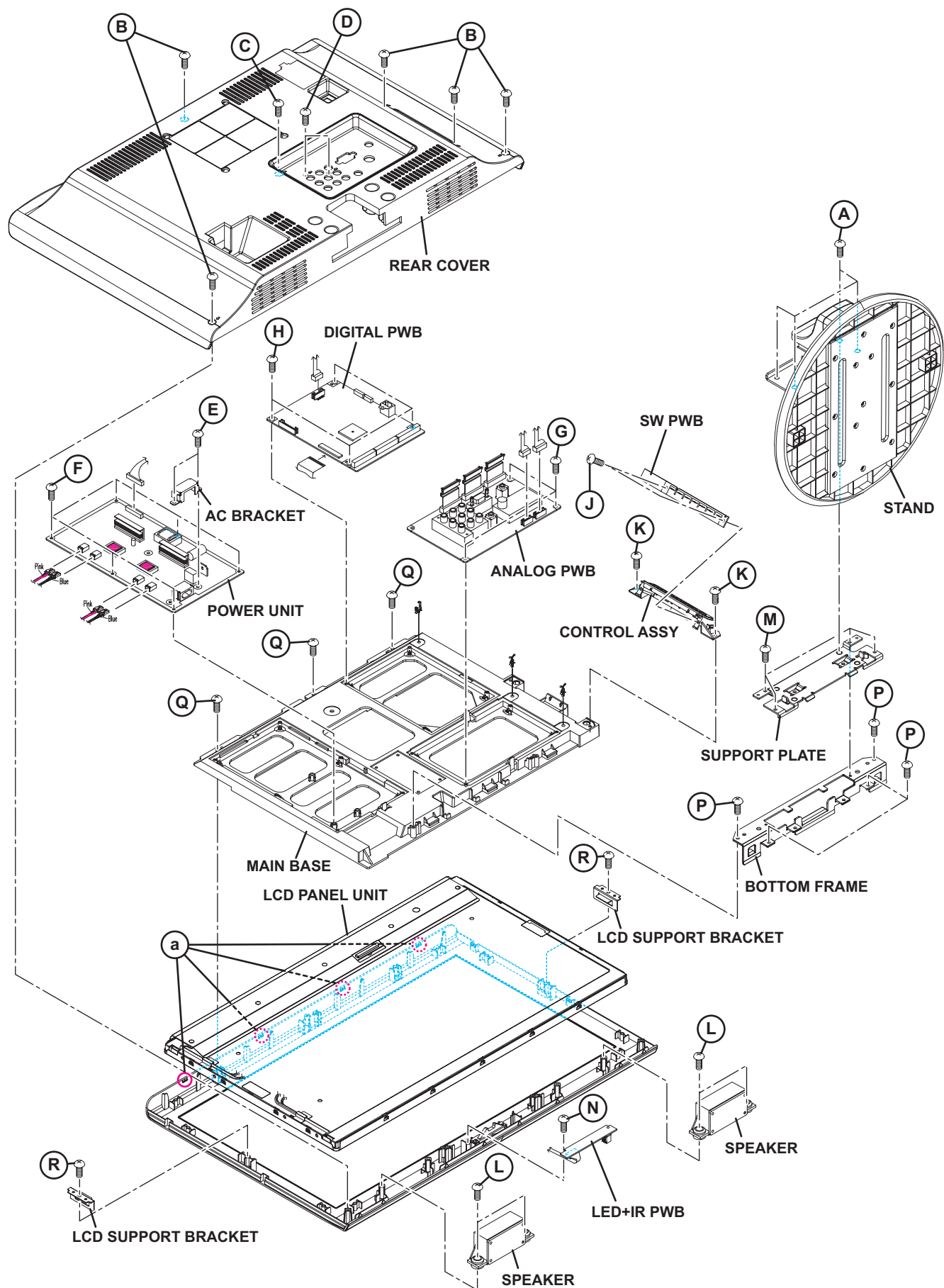
- Remove the REAR COVER.
- Remove the STAND.
  - (1) Remove the 4 screws [L].
  - (2) Remove the SPEAKER (L/R).

#### 3.1.8 REMOVING THE LED+IR PWB (Fig.3-1)

- Remove the REAR COVER.
- Remove the STAND.
  - (1) Remove the 4 screws [M].
  - (2) Remove the SUPPORT PLATE.
  - (3) Remove the 1 screw [N].
  - (4) Remove the LED+IR PWB.

#### 3.1.9 REMOVING THE LCD PANEL UNIT (Fig.3-1)

- Remove the REAR COVER.
- Remove the STAND.
- Remove the SUPPORT PLATE.
  - (1) Remove the 4 screws [P].
  - (2) Remove the BOTTOM FRAME.
  - (3) Remove the 3 screws [Q].
  - (4) Remove the MAIN BASE.
  - (5) Remove the 2 screws [R].
  - (6) Remove the LCD SUPPORT BRACKET.
  - (7) Remove the LCD PANEL UNIT from the FRONT PANEL.





## ■SYSTEM CONSTANT SETTING

Setting item	Setting value		
	Other models	LT-22EX19/SAT	LT-22EX19/MAT
1.For Saudi Arabia	No	Yes	No
2.Area Menu	Off	Off	On
3.Area	1	1	1
4.For Argentina	No	No	No
5.For Philipines	No	No	No
6.Language Number	10	10	5
7.Clear SD	RV	←	←

### 3.2.3 SETTINGS OF FACTORY SHIPMENT [LT-22EX18/MAT]

#### 3.2.3.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	PR01 (Area-1) CH 02 (Area-2)
VOLUME	15
TV/AV	TV

#### 3.2.3.2 REMOTE CONTROL DIRECT OPERATION

Setting item	Setting position
CHANNEL	PR01 (Area-1) CH 02 (Area-2)
VOLUME	15
SUB POWER	OFF

#### 3.2.3.3 REMOTE CONTROL MENU OPERATION

##### (1) PICTURE

Setting item	Setting position
PICTURE MODE	Bright
White balance	Cool
<b>FEATURES</b>	
Clear SD	Off
Digital VNR	On
DigiPure	On
Pull Down	Off
Coloure Management	On
Picture Management	On
COLOUR SYSTEM	TV Depends on PR/CH
	EXT Auto
Zoom	Panoramic

##### (2) SOUND

Setting item	Setting position
STEREO / I•II	Stereo sound (Area-1)
MTS	Stereo (Area-2)
Bass	Centre
Treble	Centre
Balance	Centre
Cinema Surround	Off

##### (3) FEATURES

Setting item	Setting position
On Timer	Off
Sleep Timer	Off
Channel Guard	Off (ID:0000)
Blue Back	On
Child Lock	Off
Auto Shutoff	Off
Favourite Setting	Blank
Power Lamp	On
Eco Mode	Off

##### (4) SET UP

Setting item	Setting position
Auto Program	TV channel automatically set
Edit/manual	Preset CH only (Area-1)
Channel Summary	Preset CH only (Area-2)
Language	English
Video-1 Setting	Component
AI Volume	On
Appearance	Size-1
Teletext Language	Group-1 (Area-1)
Closed caption	OFF (Area-2)
<b>HDMI SETTING</b>	
HDMI-1 Size	Auto
HDMI-1 Audio	Auto
HDMI-2 Size	Auto

### 3.2.4 SETTINGS OF FACTORY SHIPMENT [Others model]

#### 3.2.4.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	PR1
VOLUME	15
TV/AV	TV

#### 3.2.4.2 REMOTE CONTROL DIRECT OPERATION

Setting item	Setting position
CHANNEL	PR1
VOLUME	15
SUB POWER	OFF

#### 3.2.4.3 REMOTE CONTROL MENU OPERATION

##### (1) PICTURE

Setting item	Setting position
PICTURE MODE	Bright
White balance	Cool
<b>FEATURES</b>	
Clear SD	Off
Digital VNR	On
DigiPure	On
Pull Down	Off
Coloure Management	On
Picture Management	On
COLOUR SYSTEM	TV Depends on PR/CH
	EXT Auto
Zoom	Panoramic

##### (2) SOUND

Setting item	Setting position
STEREO / I•II	Stereo sound
Bass	Centre
Treble	Centre
Balance	Centre
Cinema Surround	Off
MaxxBass	Low

##### (3) FEATURES

Setting item	Setting position
On Timer	Off
Sleep Timer	Off
Channel Guard	Off (ID:0000)
Blue Back	On
Child Lock	Off
Auto Shutoff	Off
Favourite Setting	Blank
Power Lamp	On
Eco Mode	Off

##### (4) SET UP

Setting item	Setting position
Auto Program	TV channel automatically set
Edit/manual	Preset CH only
Language	English
Video-1 Setting	Component
AI Volume	On
Appearance	Size-1
Teletext Language	Group-1
<b>HDMI SETTING</b>	
HDMI-1 Size	Auto
HDMI-1 Audio	Auto
HDMI-2 Size	Auto

### 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

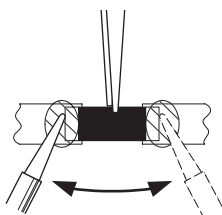
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

#### 3.3.3 REPLACEMENT STEPS

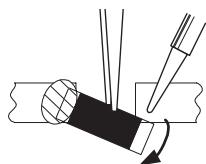
##### 1. How to remove Chip parts

[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.

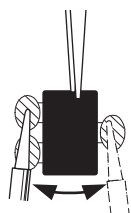


[Transistors, diodes, variable resistors, etc.]

- (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.



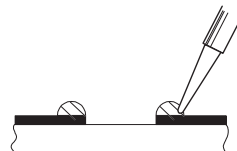
#### NOTE :

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

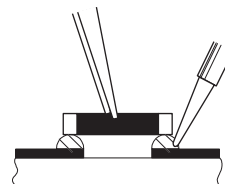
##### 2. How to install Chip parts

[Resistors, capacitors, etc.]

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

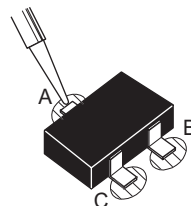


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

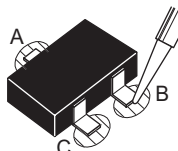


[Transistors, diodes, variable resistors, etc.]

- (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) This TV is adjusted by using REMOTE CONTROL UNIT.
- (2) The adjustment using the REMOTE CONTROL UNIT is made on the basic 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 ADJUSTMENTS

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

Setting item	Settings position
Picture Mode	Standard
PICTURE adjustments	Centre
White Balance	Mid

### 4.3 MEASURING INSTRUMENT AND FIXTURES

- Signal generator (Pattern generator)[PAL]
- Remote control unit

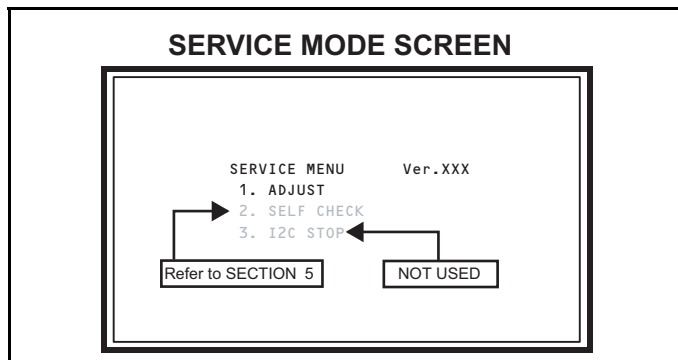
### 4.4 BASIC OPERATION OF SERVICE MODE

#### 4.4.1 HOW TO ENTER THE SERVICE MODE

- (1) Press **[DISPLAY]** key and **[MUTING]** key on the remote control unit simultaneously to enter the SERVICE MODE SCREEN.

#### 4.4.2 HOW TO EXIT THE SERVICE MODE

Press the **[MENU]** key to exit the Service mode.



#### 4.4.3 CHANGE AND MEMORY OF SETTING VALUE

##### SELECTION OF SETTING ITEM

- **[FUNCTION ▲/▼]** key.  
For scrolling up / down the setting items.

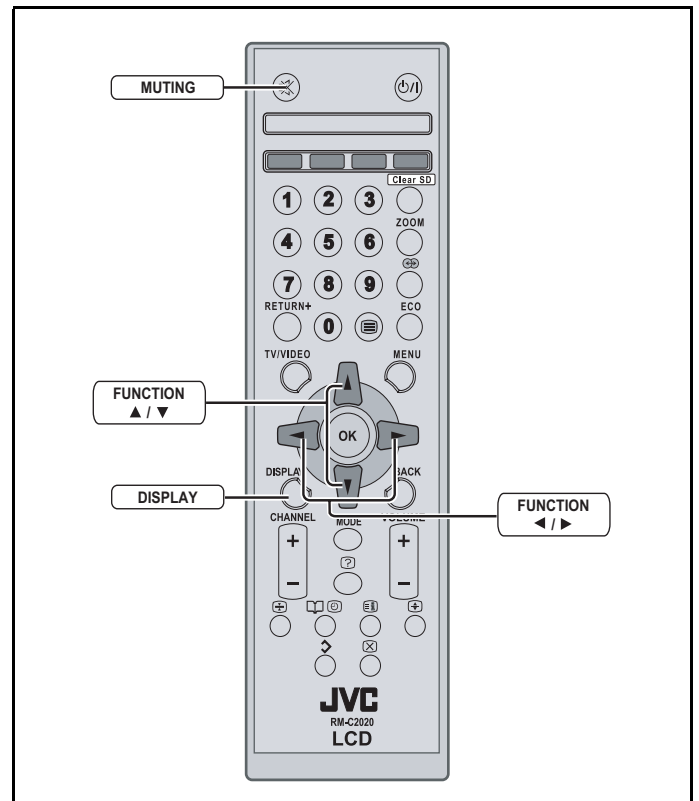
##### CHANGE OF SETTING VALUE (DATA)

- **[FUNCTION ◀/▶]** key.  
For scrolling up / down the setting values.

##### MEMORY OF SETTING VALUE (DATA)

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

#### 4.4.4 SERVICE MODE SELECT KEY LOCATION



#### 4.4.5 ADJUSTMENT MODE

This mode is used to adjust the VIDEO CIRCUIT.

##### 4.4.5.1 HOW TO ENTER THE ADJUSTMENT MODE

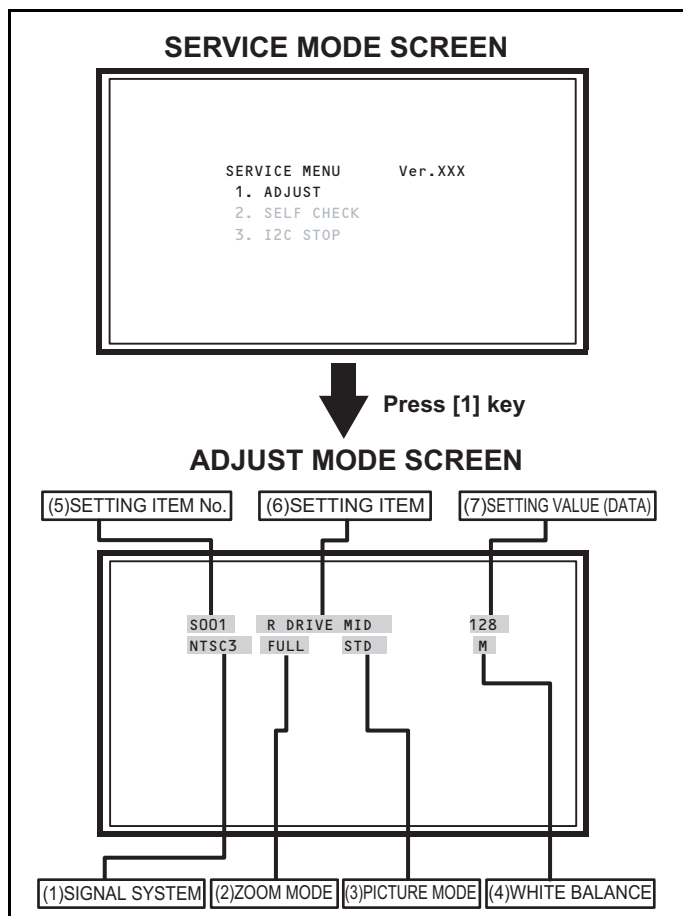
When the SERVICE MENU SCREEN of SERVICE MODE is displayed, press **[1]** key to enter the ADJUSTMENT MODE.

##### NOTE:

- When a number key other than the **[1]** key is pressed in the SERVICE MODE SCREEN, the other relevant screen may be displayed.

This is not used in the adjustment procedure. Press the **[MENU]** key to return to the SERVICE MODE SCREEN.

#### 4.4.5.2 DESCRIPTION OF STATUS DISPLAY



##### (1) SIGNAL SYSTEM

The signal displayed on the screen is displayed.

PAL50 : PAL50Hz  
PAL60 : PAL60Hz  
SECAM : SECAM  
NTSC3 : NTSC3.58  
NTSC4 : NTSC4.43  
525I : 525i  
525P : 525p  
625I : 625i  
625P : 625p  
750P5 : 750p 50Hz  
750P6 : 750p 60Hz  
1125I5 : 1125i 50Hz  
1125I6 : 1125i 60Hz  
1125P5 : 1125P 50Hz  
1125P6 : 1125P 60Hz  
--- : Others  
HXGA : HDMI XGA

PCVGA : PC VGA/60  
PCXGA : PC XGA/60  
PCSXGA : SXGA/60  
PCSVGA : PC SVGA/60  
PCWXGA : WideXGA(1360)/60  
H525I : HDMI 525i  
H525P : HDMI 525p  
H625I : HDMI 625i  
H625P : HDMI 625p  
H750P5 : HDMI 750p 50Hz  
H750P6 : HDMI 750p 60Hz  
H125I5 : HDMI 1125i 50Hz  
H125I6 : HDMI 1125i 60Hz  
H125P5 : HDMI 1125P 50Hz  
H125P6 : HDMI 1125P 60Hz

##### (2) ZOOM MODE

State of the ZOOM MODE is displayed.

FUL : FULL  
PAN : PANORAMIC  
16Z : 16:9 ZOOM  
SUB : 16:9 ZOOM SUBTITLE  
14Z : 14:9 ZOOM  
REG : REGULAR  
TEXT : TEXT

##### (3) PICTURE MODE

State of the PICTURE MODE is displayed.

STD : Standard  
BRI : Bright  
SOFT : Soft

##### (4) WHITE BALANCE MODE

State of the WHITE BALANCE MODE is displayed.

H : Cool  
M : Mid  
L : Warm

##### (5) SETTING ITEM No.

State of the Setting Item No. are displayed.

##### (6) SETTING ITEM NAME

Setting item name are displayed. The setting item numbers to be displayed are listed below.

Setting mode	Setting items	Settings
1.ADJUST	R DRIVE MID	Do not adjust
	G DRIVE MID	Adjust (Do not over 128)
	B DRIVE MID	Adjust (Do not over 128)
	R DRIVE COOL	Do not adjust
	G DRIVE COOL	Do not adjust
	B DRIVE COOL	Do not adjust
	R DRIVE WARM	Do not adjust
	G DRIVE WARM	Do not adjust
	B DRIVE WARM	Do not adjust

##### (7) SETTING VALUE (DATA)

The SETTING VALUE is displayed.

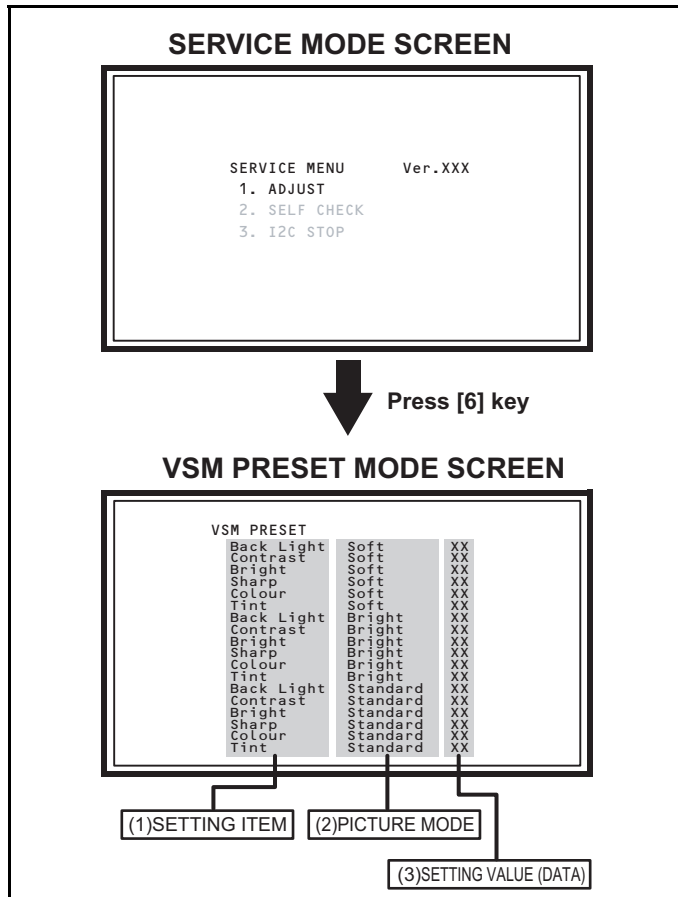
#### 4.4.6 VSM PRESET MODE

This mode is used to adjust the VSM.

##### 4.4.6.1 HOW TO ENTER THE VSM PRESET MODE

When the SERVICE MENU SCREEN of SERVICE MODE is displayed, press [6] key to enter the VSM PRESET MODE.

##### 4.4.6.2 DESCRIPTION OF STATUS DISPLAY



##### (1) SETTING ITEM NAME

Setting item name are displayed.

##### (2) PICTURE MODE

The picture mode name are displayed.

##### (3) SETTING VALUE (DATA)

The setting values are displayed. The setting value to be displayed are listed below.

	Soft	Bright	Standard
Back Light	16	32	23
Contrast	16	19	16
Bright	16	16	16
Sharp	16	20	16
Colour	16	16	16
Tint	16	16	16

#### 4.5 INITIAL SETTING VALUES IN THE SERVICE MODE

- Perform fine-tuning based on the "initial values" using the remote control when in the Service mode.
- The "initial values" serve only as an indication rough standard and therefore the values with which optimal display can be achieved may be different from the default values.
- <S004> to <S009> are the off set values.

##### 4.5.1 ADJUSTMENT MODE

Item No.	Item name	Variable range	Setting value
S001	R DRIVE MID	0000 - 0255	0128 [Do not adjust]
S002	G DRIVE MID	0000 - 0255	0128*
S003	B DRIVE MID	0000 - 0255	0128*
S004	R DRIVE COOL	0000 - 0255	(-021) [Do not adjust]
S005	G DRIVE COOL	0000 - 0255	(-009) [Do not adjust]
S006	B DRIVE COOL	0000 - 0255	(-003) [Do not adjust]
S007	R DRIVE WARM	0000 - 0255	(-000) [Do not adjust]
S008	G DRIVE WARM	0000 - 0255	(-004) [Do not adjust]
S009	B DRIVE WARM	0000 - 0255	(-019) [Do not adjust]

\*Adjustable range is 0000-0128 only (Don't over "0128")

## 4.6 ADJUSTMENT PROCEDURE

### 4.6.1 VIDEO CIRCUIT

Item	Measuring instrument	Adjustment part	Description
<b>WHITE BALANCE (HIGH LIGHT)</b>	Remote control unit  Signal generator	[1.ADJUST] S001: R DRIVE MID S002: G DRIVE MID S003: B DRIVE MID	<p>(1) Receive a PAL 75% all white signal.</p> <p>(2) Set PICTURE MODE to "<b>STANDARD</b>".</p> <p>(3) Set ZOOM to "<b>FULL</b>".</p> <p>(4) Set WHITE BALANCE. to "<b>MID</b>".</p> <p>(5) Select "<b>1.ADJUST</b>" from the SERVICE MODE.</p> <p>(6) Adjustment is select item from <b>&lt;S001&gt;</b>(R DRIVE MID), <b>&lt;S002&gt;</b>(G DRIVE MID), <b>&lt;S003&gt;</b>(B DRIVE MID).</p> <p>(7) Select <b>&lt;S001&gt;</b> item fix to 128 Other color <b>&lt;S002&gt;</b>, <b>&lt;S003&gt;</b> should be less than 128.</p> <p><b>NOTE:</b> Adjusttable range is 0000-0128 only (Don't over "0128").</p> <p>(8) Must check white balance adjustment correctry with low light to high light.</p>
<b>VSM PRESET</b>	Remote control unit	[VSM PRESET] Back Light (Soft/Bright/Standard) Contrast (Soft/Bright/Standard) Bright (Soft/Bright/Standard) Sharp (Soft/Bright/Standard) Colour (Soft/Bright/Standard) Tint (Soft/Bright/Standard)	<p>(1) Select "<b>VSM PRESET</b>" from the SERVICE MODE.</p> <p>(2) Set the initital setting value of <b>&lt;Back Light&gt;</b> - <b>&lt;Tint&gt;</b>.</p>

## SECTION 5 TROUBLESHOOTING

### 5.1 SELF CHECK FEATURE

#### 5.1.1 OUTLINE

This unit comes with the "Self check" feature, which checks the operational state of the circuit and displays/saves it during failure. Diagnosis is performed when power is turned on, and information input to the main microcomputer is monitored at all time. Diagnosis is displayed in 2 ways via screen display and LED flashes. Failure detection is based on input state of I<sup>2</sup>C bus and the various control lines connected to the main microcomputer.

#### 5.1.2 HOW TO ENTER THE SELF CHECK MODE

- (1) Press the **[DISPLAY]** key and **[MUTING]** key simultaneously, then enter the SERVICE MODE.
- (2) Press the **[2]** key then enter the SELF CHECK MODE.

#### NOTE:

When a number key other than the **[2]** key is pressed in the SERVICE MODE screen, the other relevant screen may be displayed.

This is not used in the SELF CHECK MODE. Press the **[MENU]** key to return to the MAIN MENU SCREEN.

#### 5.1.3 HOW TO EXIT THE SELF CHECK MODE

##### To Save Failure History:

Turn off the power by unplugging the AC power cord plug when in the Self check display mode.

##### To Clear (Reset) Failure History:

Turn off the power by pressing the **[POWER]** key on the remote control unit when in the Self check display mode.

#### 5.1.4 FAILURE HISTORY

Failure history can be counted up to 9 times for each item. When the number exceeds 9, display will remain as 9. Failure history will be stored in the memory unless it has been deleted.

#### NOTE:

Only SYNC (with/without sync signals) will be neither counted nor stored.

#### 5.1.5 POINTS TO NOTE WHEN USING THE SELF CHECK FEATURE

In addition to circuit failures (abnormal operation), the following cases may also be diagnosed as "Abnormal" and counted.

- (1) Temporary defective transmissions across circuits due to pulse interruptions.
- (2) Misalignment in the on/off timing of power for I<sup>2</sup>C bus (Vcc) when turning on/off the main power.

Therefore, turn on the main power, and then wait for about 3 seconds before starting Self check.

If recurrences are expected, ensure to clear (reset) the failure history and record the new diagnosis results.

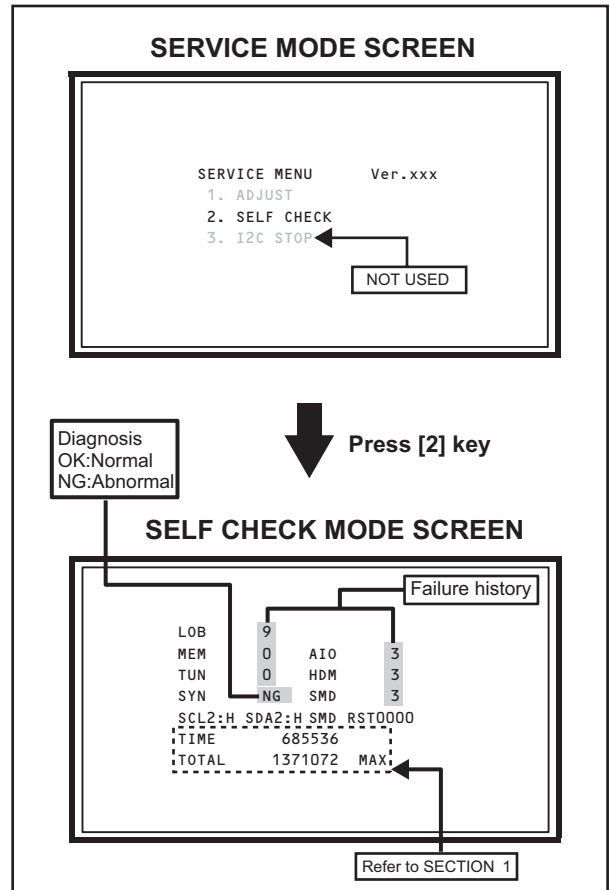


Fig.5-1

### 5.1.6 DETAILS

Self check is performed for the following items:

Detection item	Display	Detection content	Diagnosis signal (line)	Detection timing
Low bias line short protection	LOB	Confirm the operation of the low bias(5V/12V/14V/24V) protection circuit. 5V: <a href="#">Q9201</a> [DIGITAL PWB] 12V: <a href="#">Q9301</a> [DIGITAL PWB]	PROTECTOR	Detection starts 3 seconds after the power is turned on. If error continues between 200 ms the power is turned off.
MAIN MEMORY	MEM	Confirmation of reply of ACK signal which uses I <sup>2</sup> C communication. <a href="#">IC7002</a> [DIGITAL PWB]	SDA	Detection starts 3 seconds after the power is turned on.If it checks whenever I <sup>2</sup> C communication is performed and no reply of ACK signal an error will be counted.
AUDIO	AIO	Confirmation of reply of ACK signal which uses I <sup>2</sup> C communication. <a href="#">IC6002</a> [DIGITAL PWB]	SDA	Detection starts 3 seconds after the power is turned on.If it checks whenever I <sup>2</sup> C communication is performed and no reply of ACK signal an error will be counted.
RF TUNER	TUN	Confirmation of reply of ACK signal which uses I <sup>2</sup> C communication. <a href="#">TU1001</a> [ANALOG PWB]	SDA	Detection starts 3 seconds after the power is turned on.If it checks whenever I <sup>2</sup> C communication is performed and no reply of ACK signal an error will be counted.
HDMI	HDM	Confirmation of reply of ACK signal which uses I <sup>2</sup> C communication. <a href="#">IC8501</a> [DIGITAL PWB]	SDA	Detection starts 3 seconds after the power is turned on.If it checks whenever I <sup>2</sup> C communication is performed and no reply of ACK signal an error will be counted.
SYNC SIGNAL	SYN	Confirmation of presence of sync signal in selected video signal. <a href="#">IC7001</a> [DIGITAL PWB]	---	The selected video input signal is always checked and if there is the sync signal, it is displayed as "OK", and if not as "NG".

### 5.1.7 METHOD OF DISPLAY WHEN A RASTER IS NOT OUTPUT

In the state where a raster is not output by breakdown of the set, an error is displayed by blink of the POWER LED.

Type of error	POWER LED flash cycle
Low bias line short protection	Power LED turnig on and off at 1 second intervals.

#### < Explanation of operation >

If error is detected, the power is turned off. Shortly after the power is turned off, POWER LED will be blinked.

When the protection of low bias line short operates, the power cannot be turned on until the power cord takes out and inserts, after the power is turned off.



Victor Company of Japan, Limited

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

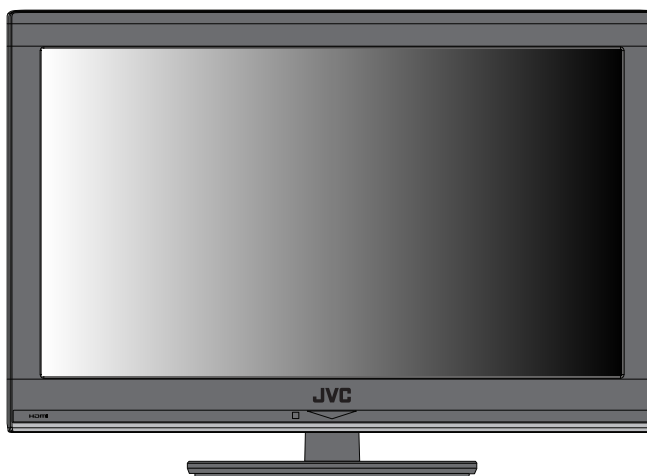
# JVC

## SCHEMATIC DIAGRAMS

LCD COLOUR TELEVISION

**LT-22EX19/AT, LT-22EX19/BAT,  
LT-22EX19/EAT, LT-22EX19/LAT,  
LT-22EX19/MAT, LT-22EX19/NASK,  
LT-22EX19/SAT, LT-22EX19/VASK**

DVD-ROM No.SML2008Q4



BASIC CHASSIS


FU2

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

# LT-22EX19/AT, LT-22EX19/BAT, LT-22EX19/EAT, LT-22EX19/LAT, LT-22EX19/MAT, LT-22EX19/NASK, LT-22EX19/SAT, LT-22EX19/VASK STANDARD CIRCUIT DIAGRAM

## ■ NOTE ON USING CIRCUIT DIAGRAMS

### 1.SAFETY

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

### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

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

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20k $\Omega$ /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



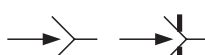
-  : B1
-  : B2 (12V)
-  : 9V
-  : 5V

\* Respective voltage values are indicated





#### (5)Test point

-  : Test point
-  : Only test point display



#### (6)Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

#### (7)Ground symbol

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

## 5.NOTE FOR REPAIRING SERVICE

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

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure 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. (No.YA674<Rev.001>)2-1



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USING P.W. BOARD	

P.W.B ASS'Y name	LT-22EX19/AT	LT-22EX19/EAT	LT-22EX19/LAT	LT-22EX19/MAT	LT-22EX19/SAT	LT-22EX19/VASK	LT-22EX19/NASK	LT-22EX19/BAT
ANALOG P.W. BOARD	SFU-1517A-H2	←	←	←	←	←	SFU-1520A-H6	SFU-1517A-H8
SW P.W. BOARD	SFU-7527A-H2	←	←	←	←	←	SFU-7529A-H2	SFU-7527A-H8
LED+IR P.W. BOARD	SFU-8515A-H2	←	←	←	←	←	SFU-8517A-H2	SFU-8515A-H8
DIGITAL P.W. BOARD	SFU0D554A-H2	←	←	SFU0D559A-H2	SFU0D557A-H2	SFU0D562A-H2	SFU0D561A-H2	SFU0D554A-H8

## SEMICONDUCTOR SHAPES

### TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

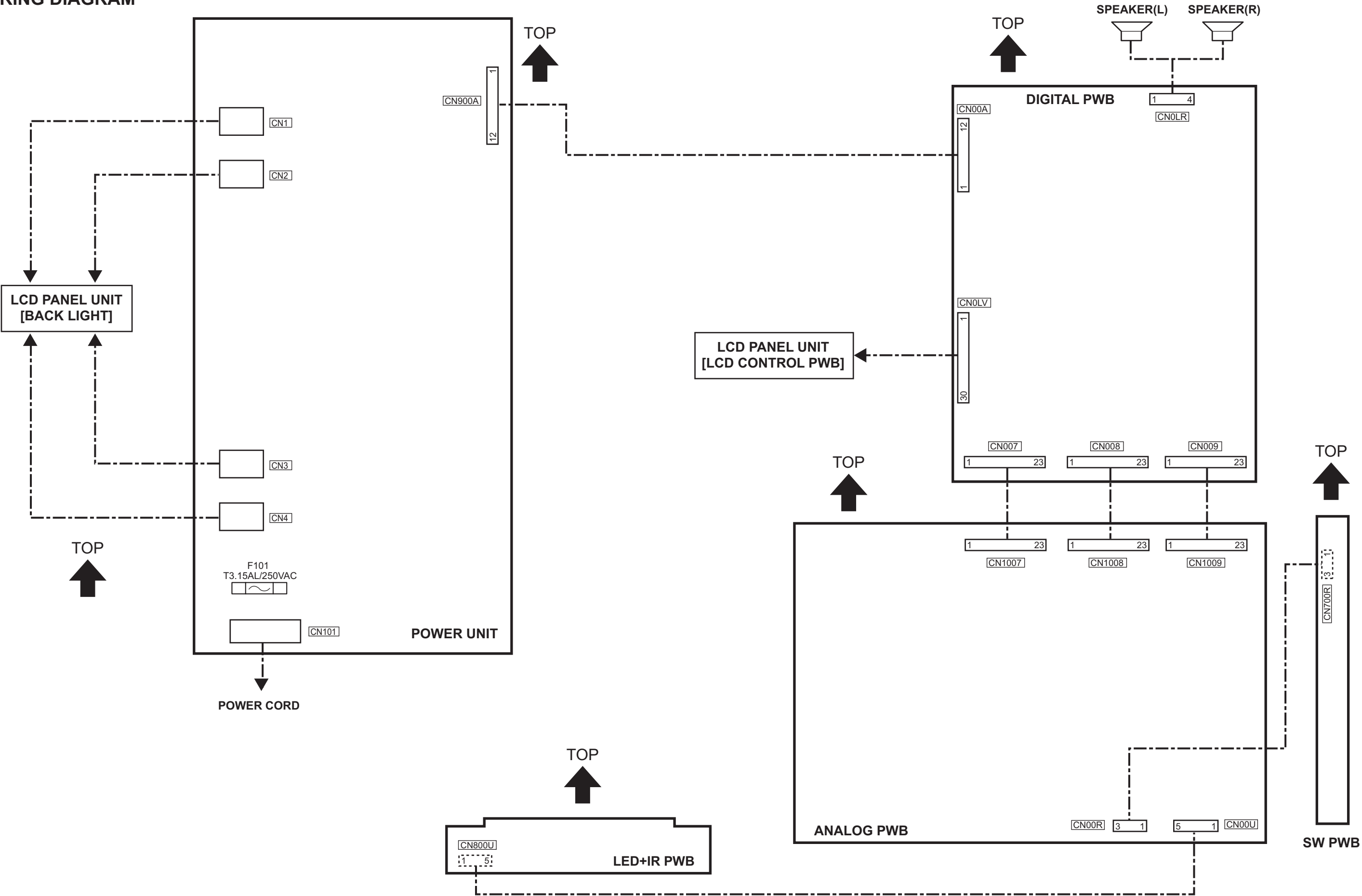
### IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW

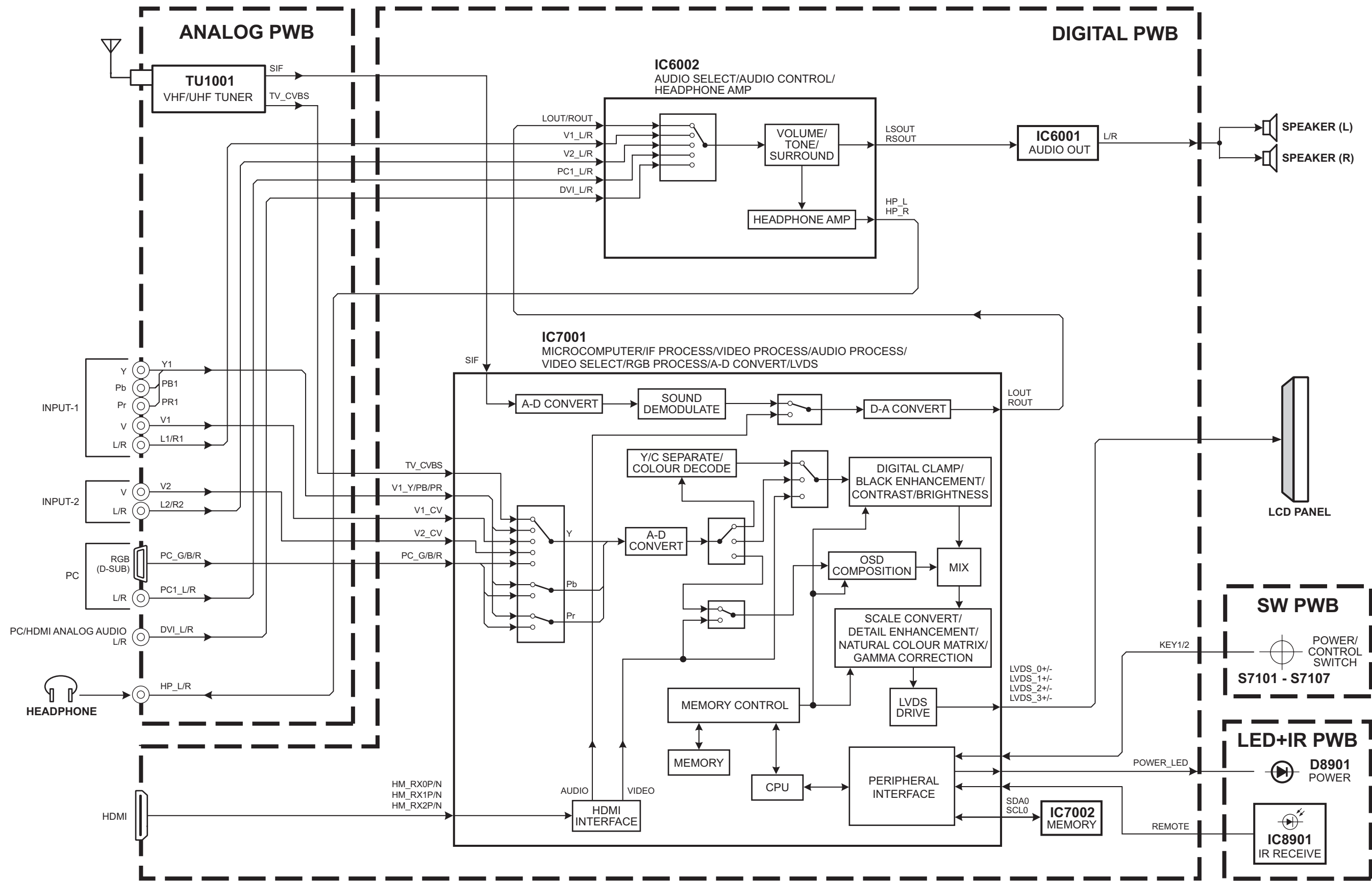
### CHIP IC

TOP VIEW		

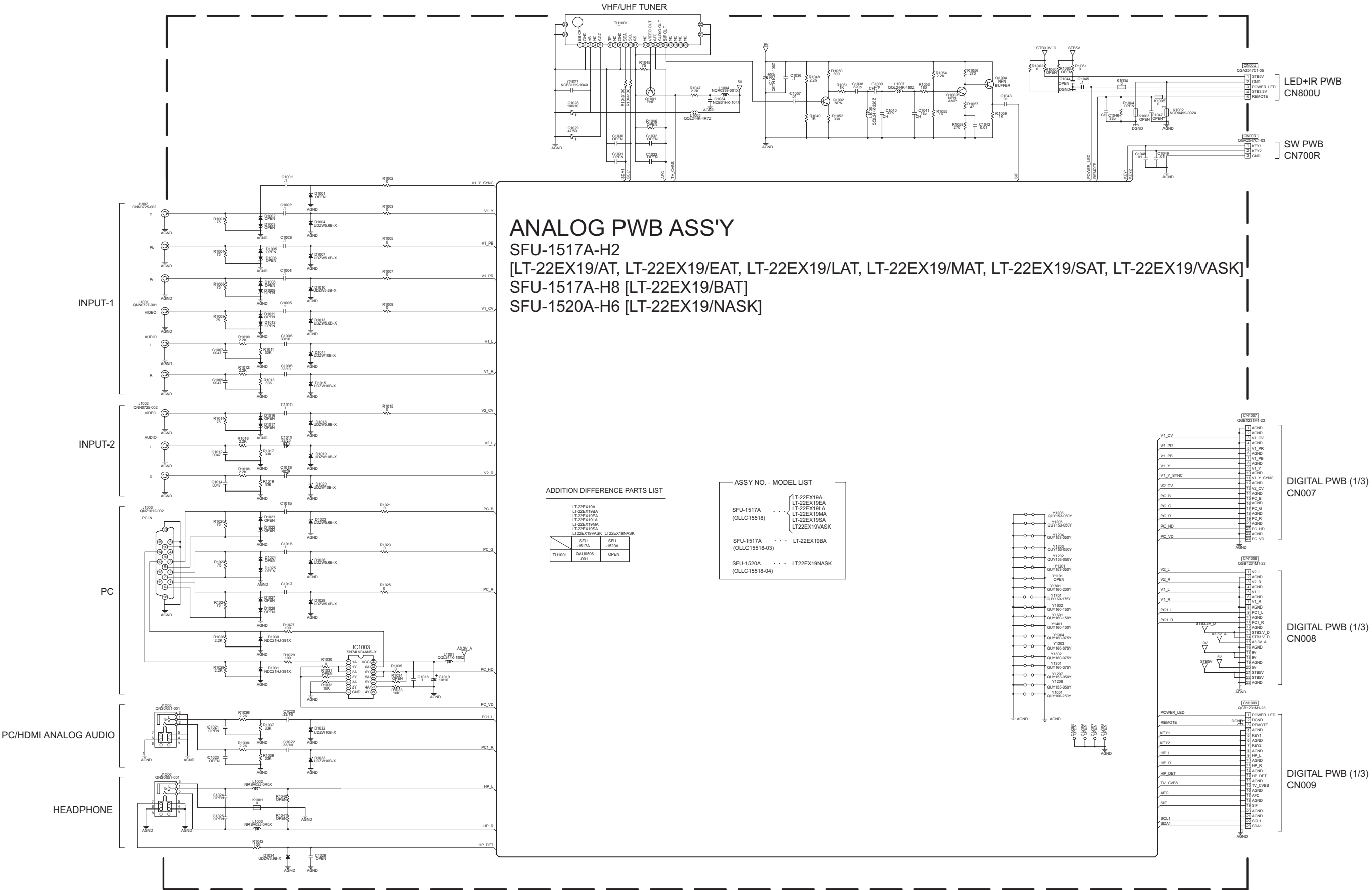
WIRING DIAGRAM



BLOCK DIAGRAM



CIRCUIT DIAGRAMS  
ANALOG PWB CIRCUIT DIAGRAM



DIGITAL PWB ASS'Y (1/3)

SFU0D554A-H2

[LT-22EX19/AT, LT-22EX19/EAT, LT-22EX19/LAT]

SFU0D554A-H8 [LT-22EX19/BAT]

SFU0D557A-H2 [LT-22EX19/SAT]

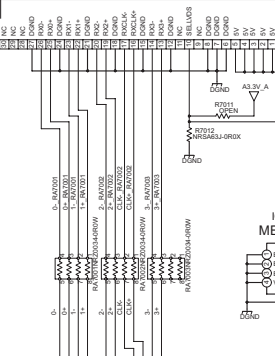
SFU0D559A-H2 [LT-22EX19/MAT]

SFU0D561A-H2 [LT-22EX19/NASK]

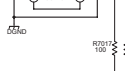
SFU0D562A-H2 [LT-22EX19/VASK]

ASSY NO. - MODEL LIST	
SFU0D554A (CLLC15517-07)	LT-22EX19A
SFU0D554A (CLLC15517-07)	LT-22EX19A
SFU0D554A (CLLC15517-07)	LT-22EX19A
SFU0D557A (CLLC15517-02)	LT-22EX19A
SFU0D559A (CLLC15517-04)	LT-22EX19A
SFU0D561A (CLLC15517-08)	LT-22EX19A
SFU0D562A (CLLC15517-08)	LT-22EX19A
SFU0D562A (CLLC15517-05)	LT-22EX19A

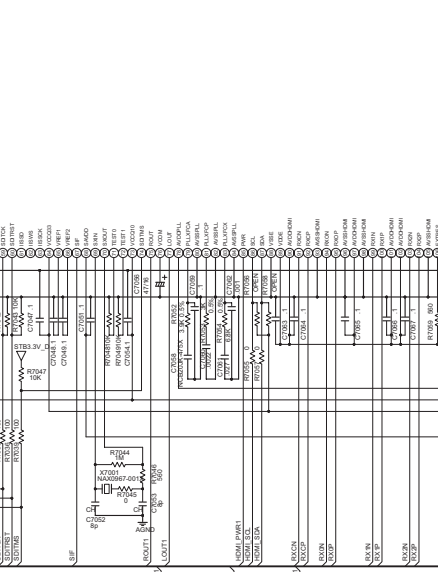
LCD PANEL UNIT  
[LCD CONTROL PWB]



IC7002  
MEMORY



IC7001  
R8J03020FP  
MICROCOMPUTER/IF PROCESS/VIDEO PROCESS/AUDIO PROCESS/  
VIDEO SELECT/RGB PROCESS/A-D CONVERT/LVDS



ANALOG PWB  
CN1007

ANALOG PWB  
CN1008

ANALOG PWB  
CN1009

HDMI CONNECTOR

DIGITAL PWB (3/3)

OPEN

OPEN

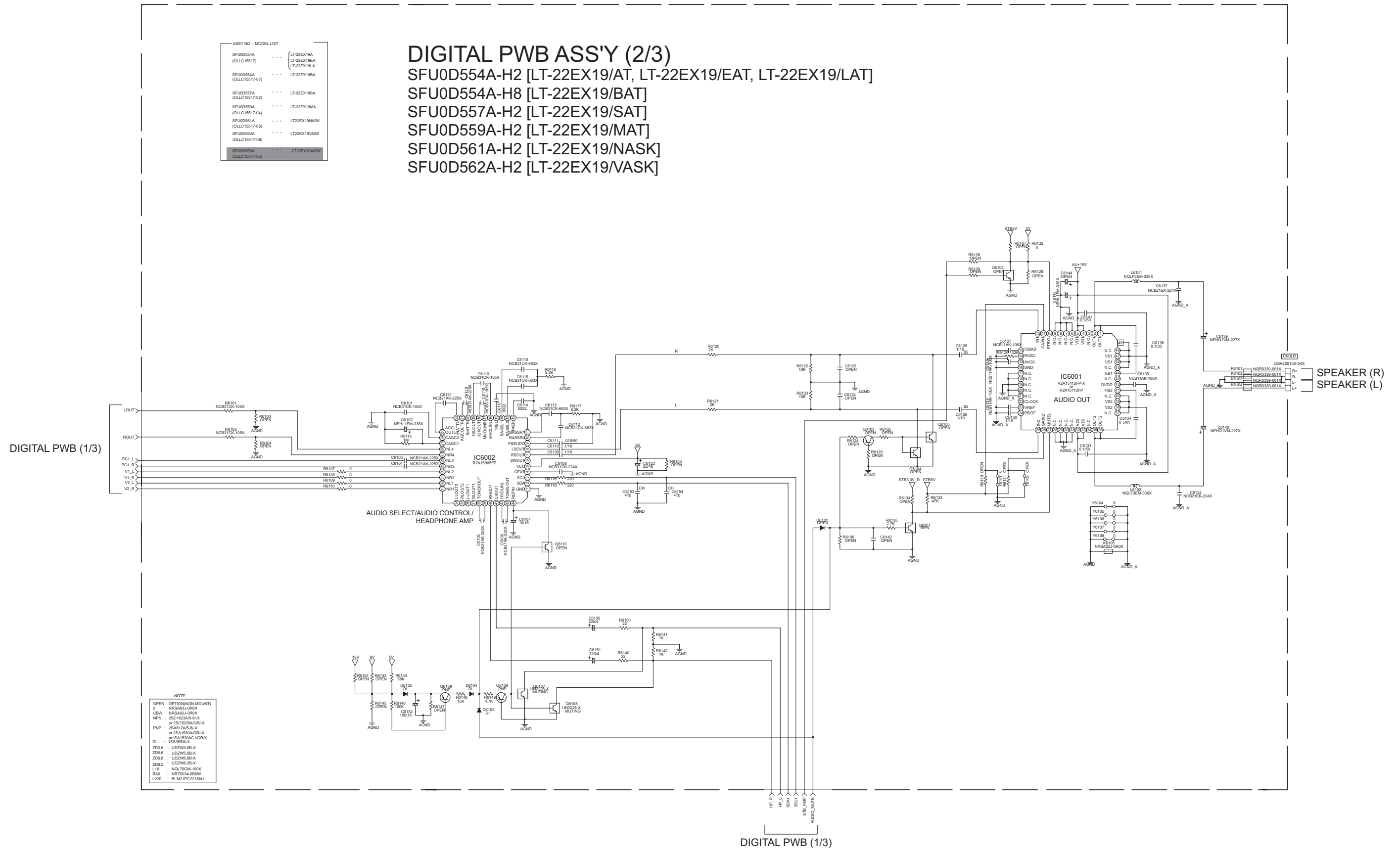
OPEN

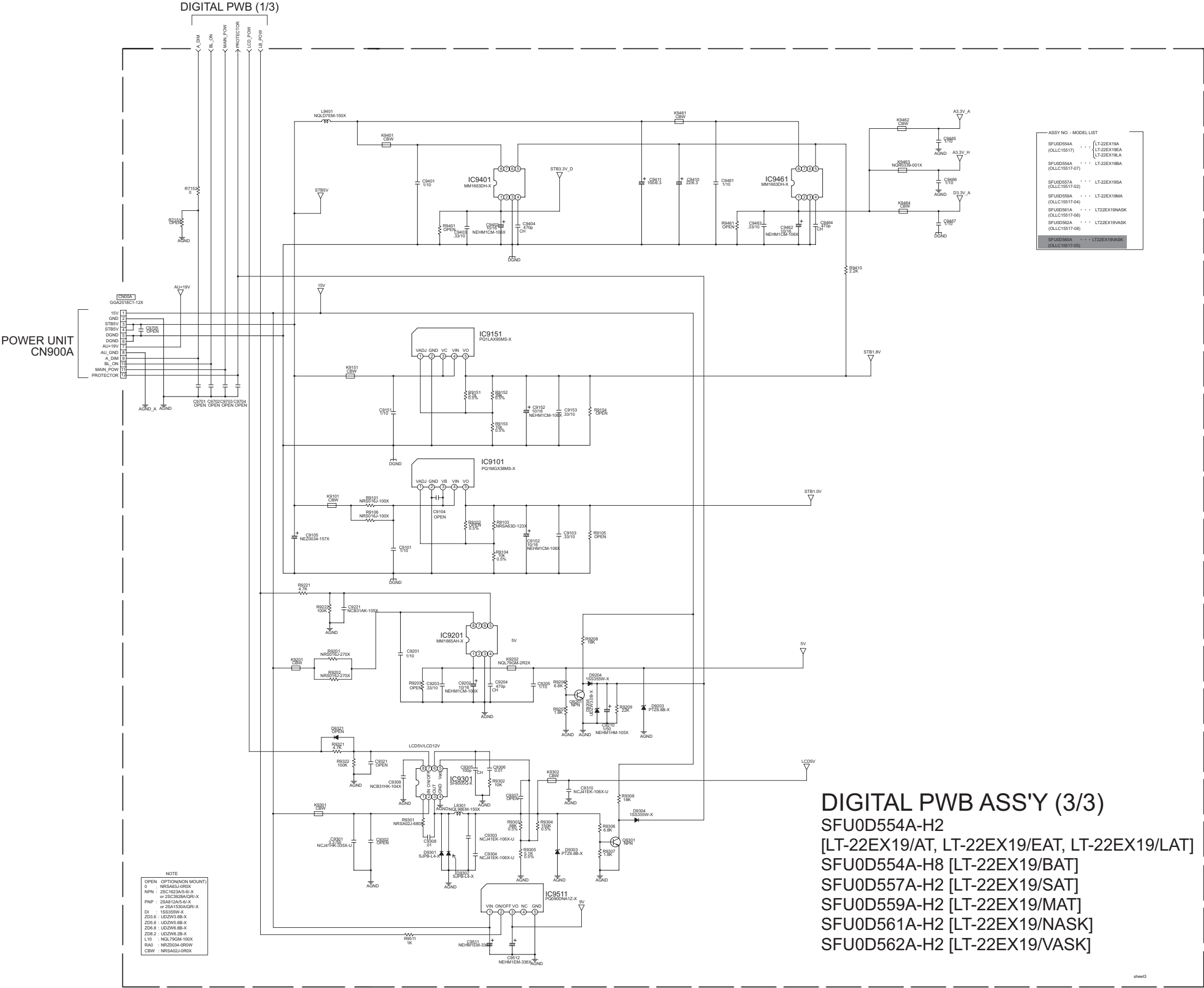
DIGITAL PWB (2/3)

DIGITAL PWB (3/3)

DIGITAL PWB (2/3)

NOTE : Refer to the part list for the part number of IC7002,IC7003 and IC8501.





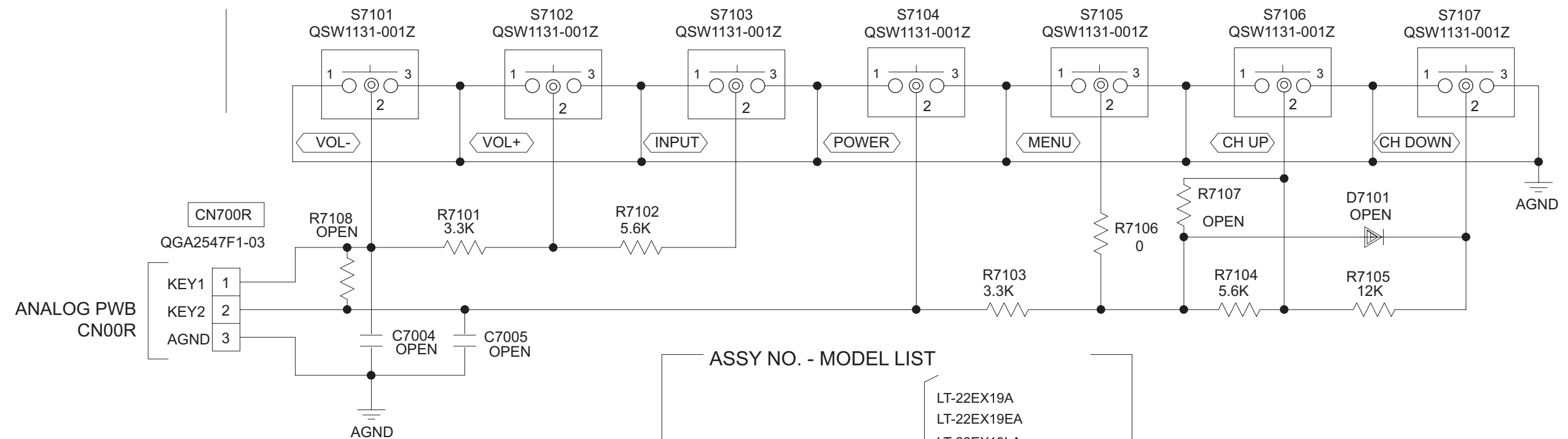
## SW PWB ASS'Y

SFU-7527A-H2 [LT-22EX19/AT, LT-22EX19/EAT, LT-22EX19/LAT, LT-22EX19/MAT, LT-22EX19/SAT, LT-22EX19/VASK]

SFU-7527A-H8 [LT-22EX19/BAT]

SFU-7529A-H2 [LT-22EX19/NAŠK]

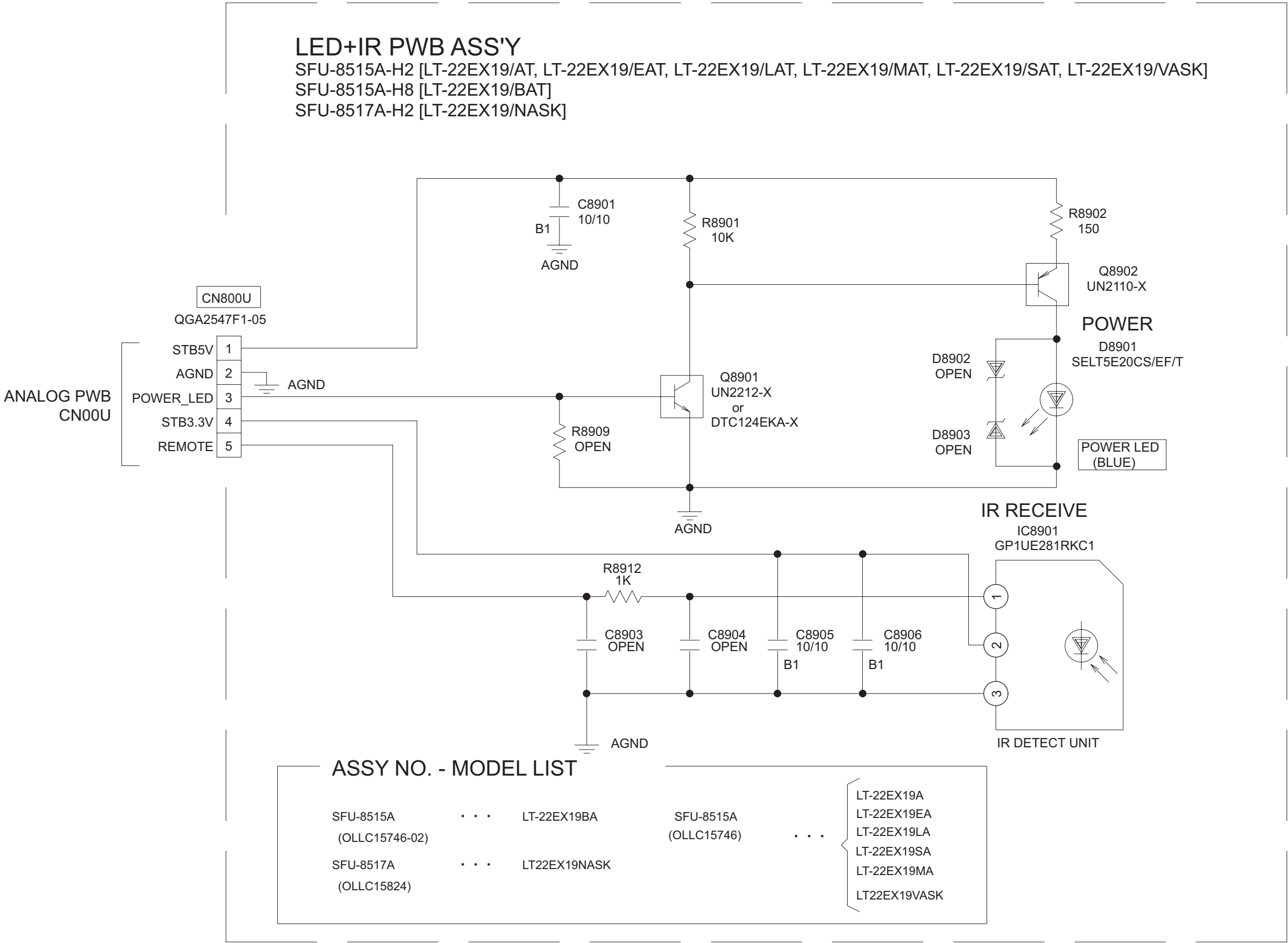
## POWER/CONTROL SWITCH



ASSY NO. - MODEL LIST

SFU-7527A (OLLC15715)	. . .	LT-22EX19A LT-22EX19EA LT-22EX19LA LT-22EX19SA LT-22EX19MA LT22EX19VASK
SFU-7527A (OLLC15747-02)	. . .	LT-22EX19BA
SFU-7529A (OLLC15825)	. . .	LT22EX19NASK





## ANALOG PWB PATTERN

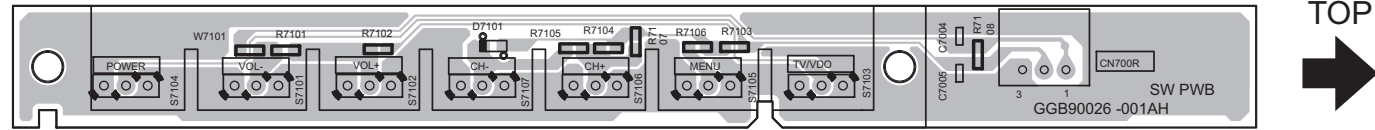


2-22(No.YA674&lt;Rev.001&gt;)

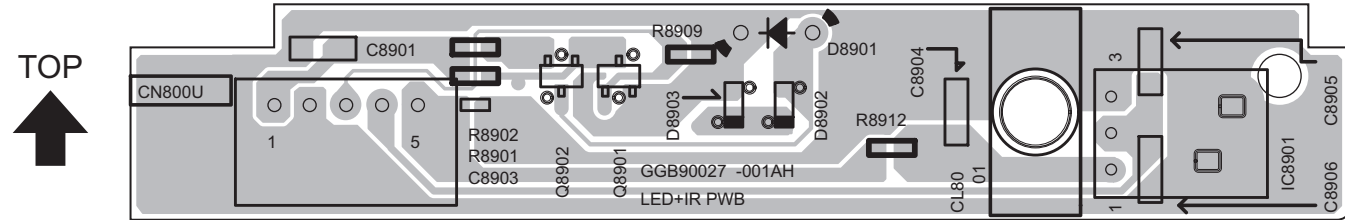




## SW PWB PATTERN



### LED+IR PWB PATTERN



## VOLTAGE CHARTS

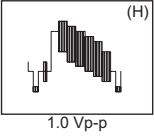
<ANALOG PWB>

MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)
IC1003		41	0	138	NC	IC7004		26	15.5	IC9101		41	7.8	IC6002		1	0	22	4.3	IC9511		1	13.4
1	0	42	0.1	139	3.2	1	3.2	27	15.5	1	0.4	2	0	1	0	2	0	23	4.3	2	0	2	0
2	0.1	43	3.2	140	NC	2	3.2	28	0	2	0	3	2.3	2	3.2	3	0	24	4.3	3	0	3	0
3	0.1	44	3.2	141	NC	3	NC	29	0	3	2.3	4	2.3	3	4.4	4	0	25	4.3	4	0	4	0
4	NC	45	0	142	NC	4	0	30	10.4	5	1	5	1	4	7.2	5	0	26	5.5	6	0	6	0
5	0	46	3.2	143	NC	5	0	31	10.3	6	NC	7	0	5	8.8	7	3.1	27	5.5	7	NC	7	NC
6	NC	47	0	144	3.2	6	0	32	0	8	4.8	8	4.8	6	4.4	8	4.7	28	5.5	8	4.7	8	4.7
7	0	48	1.7	145	1	7	3.2	33	0	IC9401		7	4.4	7	4.4	1	3.2	29	4.3	9	0	9	0
8	NC	49	0	146	3.2	8	3.2	34	15.5	1	1.2	8	4.4	8	4.4	2	NC	30	4.3	10	0.8	10	0.8
9	0	50	3.2	147	3.2	2	0	35	15.5	2	0	9	4.4	9	4.4	3	0	31	4.4	11	0.1	11	0.1
10	NC	51	0	148	1	1	0	36	0	3	4.5	10	4.4	10	4.4	4	1.9	32	4.4	12	0	12	0
11	0.1	52	NC	149	3.2	2	3.2	37	0	4	0	11	4.3	11	4.3	5	1.7	33	4.4	13	0.1	13	0.1
12	0.1	53	NC	150	3.2	3	0	38	17.3	5	1.7	12	4.4	12	4.4	6	NC	34	4.3	14	3.2	14	3.2
13	0	54	0	151	0.9	4	3.2	39	7.8	6	NC	13	4.4	13	4.4	7	NC	35	4.4	15	0.1	15	0.1
14	3.2	55	1	152	3.2	5	3.9	40	7.8	7	3.1	14	4.3	14	4.3	8	4.4	36	4.4	16	0.8	16	0.8
Q1001		56	NC	153	3.2	6	2.4	41	7.8	8	4.7	15	4.4	15	4.4	9	4.8	37	4.4	17	0.8	17	0.8
E	1.6	57	0	154	0	7	4.5	42	7.8	IC9401		16	4.3	16	4.3	10	4.4	38	4.4	18	0.8	18	0.8
C	0	58	3.2	155	3.1	8	4.5	43	17.3	1	3.2	17	4.3	17	4.3	11	4.3	39	4.4	19	0.1	19	0.1
B	1	59	0	156	3.2	B	0	44	3.2	2	3.9	18	4.3	18	4.3	12	4.4	40	4.4	20	0.1	20	0.1
Q1002		60	0	157	3.2	C	3.5	45	0	3	4.9	19	4.4	19	4.4	13	4.4	41	4.4	21	0.1	21	0.1
E	2.1	61	NC	158	0	E	0	46	0	4	2.1	20	4.3	20	4.3	14	4.3	42	4.4	22	0.1	22	0.1
C	4.5	62	NC	159	3.2	B	0	47	15.5	5	2.1	21	4.3	21	4.3	15	4.4	43	4.4	23	0.1	23	0.1
B	2.7	63	NC	160	3.2	C	3.5	48	15.5	6	2.7	22	4.3	22	4.3	16	4.4	44	4.4	24	0.1	24	0.1
Q1003		64	3.2	161	3.2	E	3.2	IC6002		7	4.4	23	4.3	23	4.3	17	4.4	45	4.4	25	0.1	25	0.1
E	2.1	65	1.4	162	3.2	B	0	1	0	8	4.4	24	4.3	24	4.3	18	4.4	46	4.4	26	0.1	26	0.1
C	7.1	66	0.6	163	3.2	C	3.2	2	3.2	9	4.4	25	4.4	25	4.4	19	4.4	47	4.4	27	0.1	27	0.1
B	2.8	67	1	164	3.2	B	0	3	3.2	10	4.4	26	5.5	26	5.5	20	4.4	48	4.4	28	0.1	28	0.1
Q1004		68	3.2	165	3.2	Q7002		4	7.2	11	4.3	27	5.5	27	5.5	21	4.4	49	4.4	29	0.1	29	0.1
E	6.4	69	1.4	166	3.3	E	0	5	8.8	12	4.4	28	5.5	28	5.5	22	4.4	50	4.4	30	0.1	30	0.1
C	9	70	0.9	167	3.3	C	3.5	6	4.4	13	4.4	29	4.3	29	4.3	23	4.4	51	4.4	31	0.1	31	0.1
B	7.1	71	0	168	3.2	B	0	7	4.4	14	4.3	30	4.3	30	4.3	24	4.4	52	4.4	32	0.1	32	0.1
TU001		72	0	169	0.1	Q7004		8	4.4	15	4.4	31	4.3	31	4.3	25	4.4	53	4.4	33	0.1	33	0.1
1	NC	73	1	170	2	E	3.2	9	4.4	16	4.3	32	4.3	32	4.3	26	4.4	54	4.4	34	0.1	34	0.1
2	0	74	3.2	171	0	C	3.2	10	4.4	17	4.3	33	4.4	33	4.4	27	4.4	55	4.4	35	0.1	35	0.1
3	4.9	75	1.6	172	0	B	0	11	4.3	18	4.4	34	4.4	34	4.4	28	4.4	56	4.4	36	0.1	36	0.1
4	NC	76	1.6	173	0	Q7005		12	4.4	19	4.4	35	4.4	35	4.4	29	4.4	57	4.4	37	0.1	37	0.1
5	4.1	77	1.6	174	0.1	E	3.2	13	4.4	20	4.3	36	4.4	36	4.4	30	4.4	58	4.4	38	0.1	38	0.1
6	NC	78	3.2	175	0.1	C	3.2	14	4.3	21	4.5	37	4.4	37	4.4	31	4.4	59	4.4	39	0.1	39	0.1
7	NC	79	0	176	1	B	0	15	4.4	22	4.3	38	4.4	38	4.4	32	4.4	60	4.4	40	0.1	40	0.1
8	0	80	0	177	1.4	Q7007		16	4.3	23	4.4	39	4.4	39	4.4	33	4.4	61	4.4	41	0.1	41	0.1
9	3.2	81	0	178	3.2	E	0	17	4.3	24	4.3	40	4.4	40	4.4	34	4.4	62	4.4	42	0.1	42	0.1
10	3.2	82	0	179	1.2	C	2.4	18	4.4	25	4.4	41	4.4	41	4.4	35	4.4	63	4.4	43	0.1	43	0.1
11	0	83	0	180	0	B	0.1	19	4.4	26	5.5	42	4.3	42	4.3	36	4.4	64	4.4	44	0.1	44	0.1
12	NC	84	0	181	NC	Q8501		20	4.3	27	5.5	43	4.3	43	4.3	37	4.4	65	4.4	45	0.1	45	0.1
13	1	85	0.1	182	NC	E	0.5	21	4.5	28	4.3	44	4.3	44	4.3	38	4.4	66	4.4	46	0.1	46	0.1
14	3.8	86	2.7	183	NC	C	0.1	22	4.3	29	4.3	45	4.3	45	4.3	39	4.4	67	4.4	47	0.1	47	0.1
15	2.3	87	3.2	184	NC	B	0	23	4.4	30	4.3	46	4.3	46	4.3	40	4.4	68	4.4	48	0.1	48	0.1
16	2	88	0	185	3.2	Q8502		24	1.7	31	4.3	47	4.3	47	4.3	41	4.4	69	4.4	49	0.1	49	0.1
17	NC	89	3.2	186	NC	E	0	25	4.4	32	4.3	48	4.3	48	4.3	42	4.4	70	4.4	50	0.1	50	0.1
18	NC	90	3.2	187	NC	C	0	26	5.5	33	4.4	49	4.3	49	4.3	43	4.4	71	4.4	51	0.1	51	0.1
19	NC	91	0.8	188	0	B	2.9	27	5.5	34	4.3	50	4.3	50	4.3	44	4.4	72	4.4	52	0.1	52	0.1
20	NC	92	0.8	189	NC	Q8503		28	4.3	35	4.4	51	4.3	51	4.3	45	4.4	73	4.4	53	0.1	53	0.1
		93	0	190	NC	E	0	29	4.3	36	4.4	52	4.3	52	4.3	46	4.4	74	4.4	54	0.1	54	0.1
		94	0.8	191	NC	C	4.5	30	4.3	37	4.4	53	4.3	53	4.3	47	4.4	75	4.4	55	0.1	55	0.1
		95	0.8	192	NC	B	0	31	4.3	38	4.4	54	4.3	54	4.3	48	4.4	76	4.4	56	0.1	56	0.1
		96	0	193	1.1	Q8504		32	4.3	39	4.4	55	4.3	55	4.3	49	4.4	77	4.4	57	0.1	57	0.1
		97	3.2	194	1.3	E	0	33	4.4	40	4.4	56	4.3	56	4.3	50	4.4	78	4.4	58	0.1	58	0.1
		98	0	195	1.2	C	0	34	4.3	41	4.4	57	4.3	57	4.3	51	4.4	79	4.4	59	0.1	59	0.1
		99	0.8	196	1.1	B	3.2	35	4.4	42	4.3	58	4.3	58	4.3	52	4.4	80	4.4	60	0.1	60	0.1
		100	0.8	197	3.2	Q8507		36	4.4	43	4.3	59	4.3	59	4.3	53	4.4	81	4.4	61	0.1	61	0.1
		101	3.2	198	1.2	S	3.2	37	4.4	44	4.3	60	4.3	60	4.3	54	4.4	82	4.4	62	0.1	62	0.1
		102	3.2	199	1.2	D	4.4	38	4.4	45	4.3	61	4.3	61	4.3	55	4.4	83	4.4	63	0.1	63	0.1
		103	0.8	200	0	G	3.3	39	4.4	46	4.3	62	4.3	62	4.3	56	4.4	84	4.4	64	0.1	64	0.1
		104	0.8	201	1.1	Q8508		40	4.4	47	4.3	63	4.3	63	4.3	57	4.4	85	4.4	65	0.1	65	0.1
		105	0	202	1.3	S	2.7	41	4.4	48	4.3	64	4.3	64	4.3	58	4.4	86	4.4	66	0.1	66	0.1
		106	3.2	203	1	D	2.6	42	4.3	49	4.3	65	4.3	65	4.3	59	4.4	87	4.4	67	0.1	67	0.1
		107	3.2	204	1.3	G	3.3	43	4.3	50	4.3	66	4.3	66	4.3	60	4.4	88	4.4	68	0.1	68	0.1
		108	0	205	0			44	4.3	51	4.3	67	4.3	67	4.3	61	4.4	89	4.4	69	0.1	69	0.1
		109	1	206	0			45	4.3	52	4.3	68	4.3	68	4.3	62	4.4	90	4.4	70	0.1	70	0.1
		110	3.2	207	0			46	4.3	53</													

# WAVEFORMS

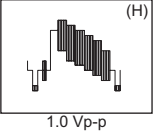
ANALOG PWB

TU1001-13

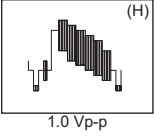


DIGITAL PWB(1/3)

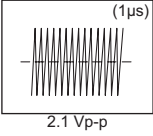
IC7001-10



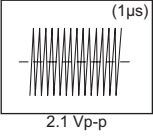
IC7001-21



IC7001-112



IC7001-113





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VPT

# 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	P.W.B ASS'Y No.							
	LT-22EX19/AT	LT-22EX19/EAT	LT-22EX19/LAT	LT-22EX19/MAT	LT-22EX19/SAT	LT-22EX19/VASK	LT-22EX19/NASK	LT-22EX19/BAT
ANALOG P.W.B	SFU-1517A-H2	←	←	←	←	←	SFU-1520A-H6	SFU-1517A-H8
SW P.W.B	SFU-7527A-H2	←	←	←	←	←	SFU-7529A-H2	SFU-7527A-H8
LED+IR P.W.B	SFU-8515A-H2	←	←	←	←	←	SFU-8517A-H2	SFU-8515A-H8
DIGITAL P.W.B	SFU0D554A-H2	←	←	SFU0D559A-H2	SFU0D557A-H2	SFU0D562A-H2	SFU0D561A-H2	SFU0D554A-H8
REMOTE CONTROL UNIT	RM-C2020-1C	←	←	←	←	←	←	←

# EXPLODED VIEW PARTS LIST

△	Ref.No.	Part No.	Part Name	Description	Local
△	LV1 TU1	WJU0028-001A-E QAU0506-001	DIGITAL(LVDS) CABLE TUNER	DIGITAL CN0LV-LCD PANEL UNIT	EX19NASK
△	1	GG10688-001A-H	REAR COVER	Inc.1A	EX19AT,EX19BAT,EX19EAT,EX19LAT,EX19MAT,EX19SAT
△	1	GG10688-001A-HL	REAR COVER	Inc.1A	EX19NASK
△	1	GG10688-001A-HK	REAR COVER	Inc.1A	EX19VASK
△	1A	GG30264-001B-H	SERVICE COVER		
△	2	GG10664-001C-H	FRONT PANEL		EX19AT,EX19BAT,EX19EAT,EX19LAT,EX19MAT,EX19SAT
△	2	GG10664-001C-HK	FRONT PANEL		EX19NASK,EX19VASK
△	3	QLD0593-001-JMT	LCD PANEL UNIT		
	5	QAS0588-001	SPEAKER(L)		
	6	QAS0588-002	SPEAKER(R)		
	9	GG10667-001B-H	MAIN BASE		EX19AT,EX19BAT,EX19EAT,EX19LAT,EX19MAT,EX19NASK,EX19SAT
	9	GG10667-001B-HK	MAIN BASE		EX19VASK
	11	GG30260-001A-H	BACK BRACKET	(x2)	
	17	GG20282-001B-H	SUPPORT PLATE		
△	21	GG30257-001B-H	CONTROL ASSY		
	33	GG30255-001A-H	LCD PANEL BRACKET	(x2)	
	37	GG10666-001B-H	BOTTOM FRAME		EX19AT,EX19BAT,EX19EAT,EX19LAT,EX19MAT,EX19NASK,EX19SAT
	37	GG10666-001B-HK	BOTTOM FRAME		EX19VASK
	50	QYSBSFG3012ZA	TAP SCREW	M3 x 12mm(x5)	
	52	QYSBSFG3014MA	TAP SCREW	M3 x 14mm	
	53	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x2)	
	54	WJZ0351-001A-E	WIRE	ANALOG CN00U-IR+RED CN800U / ANALOG CN00R-SW CN700R	
	55	QNB0036-001	CONNECTOR ACCESSORY	(x2)	
	56	WJJ1047-001A-E	WIRE	DIGITAL CN0LR-SPEAKER	
	57	QJJ049-121312-E	WIRE	POWER UNIT CN900A-DIGITAL CN00A	
	58	GG30265-001B-H	AC BRACKET		
	59	GG30206-004A-H	EARTH PLATE	(x10)	
	60	QZW0156-002	WIRE CLAMP		EX19AT,EX19EAT,EX19LAT,EX19MAT,EX19NASK,EX19SAT,EX19VASK
	61	QZW0028-001	WIRE CLAMP	(x2)	
△	200	QAL1180-001	POWER UNIT		
△	201	SFU-1517A-H2	ANALOG PWB		EX19AT,EX19EAT,EX19LAT,EX19MAT,EX19SAT,EX19VASK
△	201	SFU-1517A-H8	ANALOG PWB		EX19BAT
△	201	SFU-1520A-H6	ANALOG PWB	Please note that the TUNER is not included in ANALOG PWB	EX19NASK
△	202	SFU0D554A-H2	DIGITAL PWB		EX19AT,EX19EAT,EX19LAT
△	202	SFU0D554A-H8	DIGITAL PWB		EX19BAT
△	202	SFU0D559A-H2	DIGITAL PWB		EX19MAT
△	202	SFU0D561A-H2	DIGITAL PWB		EX19NASK
△	202	SFU0D557A-H2	DIGITAL PWB		EX19SAT
△	202	SFU0D562A-H2	DIGITAL PWB		EX19VASK
△	203	SFU-7527A-H2	SW PWB		EX19AT,EX19EAT,EX19LAT,EX19MAT,EX19SAT,EX19VASK
△	203	SFU-7527A-H8	SW PWB		EX19BAT
△	203	SFU-7529A-H2	SW PWB		EX19NASK
△	204	SFU-8515A-H2	LED+IR PWB		EX19AT,EX19EAT,EX19LAT,EX19MAT,EX19SAT,EX19VASK
△	204	SFU-8515A-H8	LED+IR PWB		EX19BAT
△	204	SFU-8517A-H2	LED+IR PWB		EX19NASK

[illegible]

# PRINTED WIRING BOARD PARTS LIST [LT-22EX19/AT] [LT-22EX19/EAT][LT-22EX19/LAT]

## ANALOG P.W. BOARD ASS'Y (SFU-1517A-H2)

△Ref No.	Part No.	Part Name	Description	Local
IC1003	SN74LV04ANS-X	IC		
Q1001	2SA812A/5-6/-X	TRANSISTOR		
Q1002	2SC1623A/5-6/-X	TRANSISTOR		
Q1003	2SC1623A/5-6/-X	TRANSISTOR		
Q1004	2SC1623A/5-6/-X	TRANSISTOR		
D1004	UDZW5.6B-X	Z DIODE		
D1007	UDZW5.6B-X	Z DIODE		
D1010	UDZW5.6B-X	Z DIODE		
D1013	UDZW5.6B-X	Z DIODE		
D1014	UDZW10B-X	Z DIODE		
D1015	UDZW10B-X	Z DIODE		
D1018	UDZW5.6B-X	Z DIODE		
D1019	UDZW10B-X	Z DIODE		
D1020	UDZW10B-X	Z DIODE		
D1023	UDZW5.6B-X	Z DIODE		
D1026	UDZW5.6B-X	Z DIODE		
D1029	UDZW5.6B-X	Z DIODE		
D1030	NDC21HJ-391X	C CAPACITOR	390pF 50V J	
D1031	NDC21HJ-391X	C CAPACITOR	390pF 50V J	
D1032	UDZW10B-X	Z DIODE		
D1033	UDZW10B-X	Z DIODE		
D1034	UDZW3.9B-X	Z DIODE		
C1001	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1002	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1004	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1005	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1006	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1007	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1008	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1009	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1010	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1011	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1012	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1013	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1014	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1015	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1016	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1017	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1018	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1019	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C1020	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1022	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1027	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1028	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C1029	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C1034	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1035	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C1036	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1037	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1038	NCB31HK-821X	C CAPACITOR	820pF 50V K	
C1039	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C1040	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C1041	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C1042	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1043	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1046	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1048	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1049	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
R1001	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1004	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1008	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1010	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1011	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1012	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1013	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1014	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1015	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1016	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1017	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1018	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	

△Ref No.	Part No.	Part Name	Description	Local
R1019	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1020	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1022	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1023	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1024	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1025	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1026	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1027	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1028	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1029	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1030	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1032	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1033	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1036	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1037	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1038	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1039	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1042	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1043	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1044	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1045	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1047	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1048	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1049	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1050	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1051	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1052	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R1053	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R1054	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1055	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1056	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1057	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R1058	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1059	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1062	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
L1001	QQL244K-100Z	PEAKING COIL	10uH K	
L1002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L1003	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L1004	NQR0339-001X	FERRITE BEADS		
L1005	QQL244K-4R7Z	PEAKING COIL	4.7uH K	
L1006	QQL244K-220Z	P COIL	22uH K	
L1007	QQL244K-180Z	PEAKING COIL	18uH K	
CN1007	QGB1231M1-23	CONNECTOR	B-B (1-23)	
CN1008	QGB1231M1-23	CONNECTOR	B-B (1-23)	
CN1009	QGB1231M1-23	CONNECTOR	B-B (1-23)	
J1001	QNN0727-001	PIN JACK	VIDEO-1	
J1002	QNN0725-002	PIN JACK	VIDEO-1/VIDEO-2	
J1003	QNZ0781-001	D CONNECTOR	PC IN	
J1005	QNS0051-001	3.5 JACK	PC/HDMI ANALOG AUDIO	
J1006	QNS0051-001	3.5 JACK	HEADPHONE	
K1001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1002	NQR0499-002X	FERRITE BEADS		
K1004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
TU1001	QAU0506-001	TUNER		

## SW P.W. BOARD ASS'Y (SFU-7527A-H2)

△Ref No.	Part No.	Part Name	Description	Local
R7101	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R7102	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R7103	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R7104	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R7105	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R7106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
S7101	QSW1131-001Z	TACT SWITCH	VOL-	
S7102	QSW1131-001Z	TACT SWITCH	VOL+	
S7103	QSW1131-001Z	TACT SWITCH	TV/VIDEO	
S7104	QSW1131-001Z	TACT SWITCH	POWER	
S7105	QSW1131-001Z	TACT SWITCH	MENU/OK	
S7106	QSW1131-001Z	TACT SWITCH	CH+	
S7107	QSW1131-001Z	TACT SWITCH	CH-	

# LED+IR P.W. BOARD ASS'Y (SFU-8515A-H2)

△Ref No.	Part No.	Part Name	Description	Local
IC8901	GP1UE281RKC1	IR DETECT UNIT		
Q8901	DTC124EKA-X	DIGI TRANSISTOR		
Q8902	UN2110-X	DIGI TRANSISTOR		
D8901	SELT5E20CS/EF/T	LED		
C8901	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C8905	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C8906	NCB11AK-106X	C CAPACITOR	10uF 10V K	
R8901	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8902	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R8912	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	

# DIGITAL P.W. BOARD ASS'Y (SFU0D554A-H2)

△Ref No.	Part No.	Part Name	Description	Local
IC6001	R2A15112FP-X	IC		
IC6002	R2A15905FP	IC		
IC7001	R8J03020FP	IC		
IC7002	ATF64-22EX19	IC	(SERVICE)	
IC7003	25VF080B32EX18A	IC(MICRO C ROM)	(SERVICE)	
IC7004	TC7WH08FU-X	IC		
IC7005	S-80928CLNB-G-W	IC		
IC8501	ATF02-32EX18A1	IC	(SERVICE)	
IC9101	PQ1MGX38MS-X	IC		
IC9151	PQ1LAX95MS-X	IC		
IC9201	MM1665AH-X	IC		
IC9301	SI-8005Q-X	IC		
IC9401	MM1663DH-X	IC		
IC9461	MM1663DH-X	IC		
IC9511	PQ090DNA1Z-X	IC		
Q6101	2SC1623A/5-6/-X	TRANSISTOR		
Q6106	UN2226-X	DIGI TRANSISTOR		
Q6107	UN2226-X	DIGI TRANSISTOR		
Q6108	2SA812A/5-6/-X	TRANSISTOR		
Q6109	2SA812A/5-6/-X	TRANSISTOR		
Q7001	DTA144EKA-X	DIGI TRANSISTOR		
Q7002	2SC1623A/5-6/-X	TRANSISTOR		
Q7004	DTA144EKA-X	DIGI TRANSISTOR		
Q7005	DTA144EKA-X	DIGI TRANSISTOR		
Q7007	2SC1623A/5-6/-X	TRANSISTOR		
Q8501	DTA144EKA-X	DIGI TRANSISTOR		
Q8502	DTC144EKA-X	DIGI TRANSISTOR		
Q8503	DTC144EKA-X	DIGI TRANSISTOR		
Q8504	DTC144EKA-X	DIGI TRANSISTOR		
Q8507	2SK1228-X	MOS FET		
Q8508	2SK1228-X	MOS FET		
Q8509	DTC144EKA-X	DIGI TRANSISTOR		
Q8510	DTC144EKA-X	DIGI TRANSISTOR		
Q9201	2SC1623A/5-6/-X	TRANSISTOR		
Q9301	2SC1623A/5-6/-X	TRANSISTOR		
D6103	1SS355W-X	DIODE		
D6104	1SS355W-X	DIODE		
D6105	1SS355W-X	DIODE		
D7008	UDZW5.6B-X	Z DIODE		
D7009	UDZW5.6B-X	Z DIODE		
D7010	UDZW5.6B-X	Z DIODE		
D7011	UDZW5.6B-X	Z DIODE		
D7012	UDZW5.6B-X	Z DIODE		
D7013	UDZW5.6B-X	Z DIODE		
D7014	UDZW5.6B-X	Z DIODE		
D7015	UDZW5.6B-X	Z DIODE		
D7016	UDZW5.6B-X	Z DIODE		
D7017	UDZW5.6B-X	Z DIODE		
D7018	UDZW5.6B-X	Z DIODE		
D7019	UDZW5.6B-X	Z DIODE		
D7020	UDZW5.6B-X	Z DIODE		
D7021	UDZW5.6B-X	Z DIODE		
D7022	UDZW5.6B-X	Z DIODE		
D8502	1SS355W-X	DIODE		
D8503	1SS355W-X	DIODE		
D8504	1SS355W-X	DIODE		
D8533	1SS355W-X	DIODE		
D9203	PTZ6.8B-X	Z DIODE		
D9204	1SS355W-X	DIODE		
D9206	UDZW3.0B-X	Z DIODE		
D9301	SJPB-L4-X	SB DIODE		
D9302	SJPB-L4-X	SB DIODE		

△Ref No.	Part No.	Part Name	Description	Local
D9303	PTZ6.8B-X	Z DIODE		
D9304	1SS355W-X	DIODE		
C6101	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6102	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6103	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6104	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6105	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6106	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6107	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C6108	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C6109	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6110	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6111	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C6112	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6113	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6114	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6115	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6116	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6117	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6118	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6119	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6120	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6121	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6122	NEHL1CM-226X	E CAPACITOR	22uF 16V M	
C6125	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6126	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6127	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6128	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6129	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6130	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6131	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6132	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C6134	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6135	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6136	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6137	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C6139	NEHQ1VM-227X	E CAPACITOR	220uF 35V M	
C6140	NEHQ1VM-227X	E CAPACITOR	220uF 35V M	
C6141	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6143	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6150	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C6151	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C6152	NEHL1CM-107X	E CAPACITOR	100uF 16V M	
C6153	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C6154	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C6501	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6502	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6507	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6508	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C7001	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7002	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C7003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7005	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7006	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C7007	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7009	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7010	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7011	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7015	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7017	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7018	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7019	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7021	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7023	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7024	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7026	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7028	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7029	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7030	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7031	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7032	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7033	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7034	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7035	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7039	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7040	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7041	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7043	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7044	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7046	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7047	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7048	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7049	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7050	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7051	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C7052	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	C9221	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7053	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	C9301	NCJ41HK-335X-U	C CAPACITOR	3.3uF 50V K
C7054	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9303	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7056	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C9304	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7058	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	C9305	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C7059	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9306	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7060	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C9308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7061	NCB31HK-273X	C CAPACITOR	0.027uF 50V K	C9309	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7062	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C9310	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7063	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9401	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7064	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9402	NEHM1CM-106X	E CAPACITOR	10uF 16V M
C7065	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9403	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C7066	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9404	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C7067	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9410	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M
C7068	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9411	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M
C7069	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9461	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7070	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9462	NEHM1CM-106X	E CAPACITOR	10uF 16V M
C7071	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C9463	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C7072	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C9464	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C7073	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9465	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7074	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9466	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7075	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9467	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7076	NCB31CK-105X	C CAPACITOR	1uF 16V K	C9511	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C7078	NCB31CK-105X	C CAPACITOR	1uF 16V K	C9512	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C7079	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6101	NCB31CK-105X	C CAPACITOR	1uF 16V K
C7080	NCB31CK-105X	C CAPACITOR	1uF 16V K	R6102	NCB31CK-105X	C CAPACITOR	1uF 16V K
C7083	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7084	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6108	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7085	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7086	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7087	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6115	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C7088	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6116	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C7089	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6117	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C7090	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6118	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7091	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6119	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7092	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6120	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
C7093	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6121	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
C7094	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7095	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6123	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7096	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6129	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C7097	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7098	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6133	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C7099	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6135	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C7101	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6140	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C7102	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6141	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7103	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6142	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7104	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6144	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
C7105	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6146	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C7107	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6148	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C7108	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R6149	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7109	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6150	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C7111	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7112	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7113	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6508	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7114	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6509	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7115	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7116	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7117	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7005	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C7118	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7119	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7120	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7121	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7122	NCB31CK-105X	C CAPACITOR	1uF 16V K	R7017	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7123	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R7020	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7124	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7023	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C7127	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7025	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7129	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7026	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7131	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7034	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7135	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7035	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7136	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R7036	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7138	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7037	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7139	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7038	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7140	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7039	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C8501	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R7040	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C8502	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C8503	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9101	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7043	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9102	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7044	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C9103	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7045	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9105	NEZ0034-157X	E CAPACITOR	150uF	R7046	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
C9151	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7047	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9152	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7048	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9153	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7049	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9201	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7052	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D
C9202	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7053	NRSA63D-302X	MG RESISTOR	3kΩ 1/16W D
C9203	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7054	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D
C9204	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R7055	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9205	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7057	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9210	NEHM1HM-105X	E CAPACITOR	1uF 50V M				

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R7059	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R9305	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D
R7061	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R9306	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R7062	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R9307	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R7063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	R9308	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R7064	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9321	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R7070	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R9322	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R7071	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R9410	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R7072	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7073	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA7001	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7077	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA7002	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7078	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA7003	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7079	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA8001	NRZ0033-0R0W	NET RESISTOR	0Ω
R7080	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8002	NRZ0033-0R0W	NET RESISTOR	0Ω
R7081	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8003	NRZ0033-0R0W	NET RESISTOR	0Ω
R7082	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8004	NRZ0033-0R0W	NET RESISTOR	0Ω
R7083	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L6101	NQLF3EM-330X	COIL	33uH M
R7084	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L6102	NQLF3EM-330X	COIL	33uH M
R7085	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7001	NQR0339-001X	FERRITE BEADS	
R7086	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7002	NQR0339-001X	FERRITE BEADS	
R7087	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7003	NQR0339-001X	FERRITE BEADS	
R7088	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	L7004	NQR0339-001X	FERRITE BEADS	
R7089	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7005	NQR0339-001X	FERRITE BEADS	
R7090	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7006	NQR0339-001X	FERRITE BEADS	
R7091	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	L7007	NQR0339-001X	FERRITE BEADS	
R7094	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L7008	NQR0339-001X	FERRITE BEADS	
R7095	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L7009	NQR0339-001X	FERRITE BEADS	
R7096	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L7010	NQR0339-001X	FERRITE BEADS	
R7097	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L7011	NQR0339-001X	FERRITE BEADS	
R7098	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L7012	NQR0339-001X	FERRITE BEADS	
R7099	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L7013	NQR0339-001X	FERRITE BEADS	
R7101	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L7014	NQR0339-001X	FERRITE BEADS	
R7102	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	L7015	NQR0339-001X	FERRITE BEADS	
R7103	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L7016	NQR0339-001X	FERRITE BEADS	
R7107	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7017	NQR0339-001X	FERRITE BEADS	
R7108	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L7018	NQR0339-001X	FERRITE BEADS	
R7109	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	L7019	NQR0339-001X	FERRITE BEADS	
R7111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L9301	NQL98EM-150X	COIL	15uH M
R7113	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L9401	NQLD7EM-150X	COIL	15uH M
R7114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	CN007	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN008	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7116	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	CN009	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	CN0LV	QGF1048F1-30X	CONNECTOR	FFC/FPC (1-30)
R7118	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	J8501	NNZ0228-001	HDMI CONNECTOR	DIGITAL IN
R7119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K6101	NQR0339-001X	FERRITE BEADS	
R7120	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K6102	NQR0339-001X	FERRITE BEADS	
R7121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K6103	NQR0339-001X	FERRITE BEADS	
R7122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K6104	NQR0339-001X	FERRITE BEADS	
R7123	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K6105	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7126	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	K7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7129	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K7002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7133	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7134	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7135	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7136	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7137	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7139	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7140	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7141	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7142	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7013	NQR0199-004X	FERRITE BEADS	
R8501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K7014	NQR0199-004X	FERRITE BEADS	
R8503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	K7020	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8504	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	K7022	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8508	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7024	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8509	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7026	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8520	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	K9101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8521	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K9151	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8536	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	K9201	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8537	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	K9202	NQL79GM-2R2X	COIL	2.2uH M
R9101	NRS016J-100X	MG RESISTOR	10Ω 1W J	K9301	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9103	NRSA63D-123X	MG RESISTOR	12kΩ 1/16W D	K9302	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9104	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9106	NRS016J-100X	MG RESISTOR	10Ω 1W J	K9461	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9151	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	K9462	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9152	NRSA63D-393X	MG RESISTOR	39kΩ 1/16W D	K9463	NQR0339-001X	FERRITE BEADS	
R9153	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9464	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9201	NRS016J-270X	MG RESISTOR	27Ω 1W J	X7001	NAX0967-001X	CRYSTAL	36.864MHz
R9202	NRS016J-270X	MG RESISTOR	27Ω 1W J	X7002	NAX0900-001X	CRYSTAL	27.000MHz
R9206	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J				
R9207	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J				
R9208	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J				
R9209	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R9221	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R9222	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J				
R9301	NRSA02J-680X	MG RESISTOR	68Ω 1/10W J				
R9302	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R9303	NRSA63D-683X	MG RESISTOR	68kΩ 1/16W D				
R9304	NRSA63D-154X	MG RESISTOR	150kΩ 1/16W D				



# PRINTED WIRING BOARD PARTS LIST [LT-22EX19/BAT]

## ANALOG P.W. BOARD ASS'Y (SFU-1517A-H8)

△Ref No.	Part No.	Part Name	Description	Local
IC1003	SN74LV04ANS-X	IC		
Q1001	2SA812A/5-6/-X	TRANSISTOR		
Q1002	2SC1623A/5-6/-X	TRANSISTOR		
Q1003	2SC1623A/5-6/-X	TRANSISTOR		
Q1004	2SC1623A/5-6/-X	TRANSISTOR		
D1004	UDZW5.6B-X	Z DIODE		
D1007	UDZW5.6B-X	Z DIODE		
D1010	UDZW5.6B-X	Z DIODE		
D1013	UDZW5.6B-X	Z DIODE		
D1014	UDZW10B-X	Z DIODE		
D1015	UDZW10B-X	Z DIODE		
D1018	UDZW5.6B-X	Z DIODE		
D1019	UDZW10B-X	Z DIODE		
D1020	UDZW10B-X	Z DIODE		
D1023	UDZW5.6B-X	Z DIODE		
D1026	UDZW5.6B-X	Z DIODE		
D1029	UDZW5.6B-X	Z DIODE		
D1030	NDC21HJ-391X	C CAPACITOR	390pF 50V J	
D1031	NDC21HJ-391X	C CAPACITOR	390pF 50V J	
D1032	UDZW10B-X	Z DIODE		
D1033	UDZW10B-X	Z DIODE		
D1034	UDZW3.9B-X	Z DIODE		
C1001	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1002	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1004	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1005	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1006	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1007	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1008	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1009	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1010	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1011	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1012	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1013	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1014	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1015	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1016	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1017	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1018	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1019	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C1020	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1022	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1027	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1028	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C1029	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C1034	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1035	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C1036	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1037	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1038	NCB31HK-821X	C CAPACITOR	820pF 50V K	
C1039	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C1040	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C1041	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C1042	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1043	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1046	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1048	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1049	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
R1001	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1004	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1008	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1010	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1011	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1012	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1013	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1014	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1015	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1016	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1017	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1018	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1019	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1020	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	

△Ref No.	Part No.	Part Name	Description	Local
R1021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1022	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1023	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1024	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1025	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1026	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1027	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1028	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1029	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1030	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1032	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1033	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1036	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1037	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1038	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1039	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1042	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1043	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1044	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1045	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1047	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1048	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1049	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1050	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1051	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1052	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R1053	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R1054	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1055	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1056	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1057	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R1058	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1059	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1062	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
L1001	QQL244K-100Z	PEAKING COIL	10uH K	
L1002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L1003	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L1004	NQR0339-001X	FERRITE BEADS		
L1005	QQL244K-4R7Z	PEAKING COIL	4.7uH K	
L1006	QQL244K-220Z	P COIL	22uH K	
L1007	QQL244K-180Z	PEAKING COIL	18uH K	
CN1007	QGB1231M1-23	CONNECTOR	B-B (1-23)	
CN1008	QGB1231M1-23	CONNECTOR	B-B (1-23)	
CN1009	QGB1231M1-23	CONNECTOR	B-B (1-23)	
J1001	QNN0727-001	PIN JACK	VIDEO-1	
J1002	QNN0725-002	PIN JACK	VIDEO-1/VIDEO-2	
J1003	QNZ1012-001	D CONNECTOR	PC IN	
J1005	QNS0051-001	3.5 JACK	PCHDMI ANALOG AUDIO	
J1006	QNS0051-001	3.5 JACK	HEADPHONE	
K1001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1002	NQR0499-002X	FERRITE BEADS		
K1004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
TU1001	QAU0506-001	TUNER		

## SW P.W. BOARD ASS'Y (SFU-7527A-H8)

△Ref No.	Part No.	Part Name	Description	Local
R7101	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R7102	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R7103	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R7104	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R7105	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R7106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
S7101	QSW1131-001Z	TACT SWITCH	VOL-	
S7102	QSW1131-001Z	TACT SWITCH	VOL+	
S7103	QSW1131-001Z	TACT SWITCH	TV/VIDEO	
S7104	QSW1131-001Z	TACT SWITCH	POWER	
S7105	QSW1131-001Z	TACT SWITCH	MENU/OK	
S7106	QSW1131-001Z	TACT SWITCH	CH+	
S7107	QSW1131-001Z	TACT SWITCH	CH-	

# LED+IR P.W. BOARD ASS'Y (SFU-8515A-H8)

△Ref No.	Part No.	Part Name	Description	Local
IC8901	GP1UE281RKC1	IR DETECT UNIT		
Q8901	DTC124EKA-X	DIGI TRANSISTOR		
Q8902	UN2110-X	DIGI TRANSISTOR		
D8901	SELT5E20CS/EF/T	LED		
C8901	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C8905	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C8906	NCB11AK-106X	C CAPACITOR	10uF 10V K	
R8901	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8902	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R8912	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	

# DIGITAL P.W. BOARD ASS'Y (SFU0D554A-H8)

△Ref No.	Part No.	Part Name	Description	Local
IC6001	R2A15112FP-X	IC		
IC6002	R2A15905FP	IC		
IC7001	R8J03020FP	IC		
IC7002	ATF64-22EX19BA	IC	(SERVICE)	
IC7003	25VF080B32EX18A	IC(MICRO C ROM)	(SERVICE)	
IC7004	TC7WH08FU-X	IC		
IC7005	S-80928CLNB-G-W	IC		
IC8501	ATF02-32EX18A1	IC	(SERVICE)	
IC9101	PQ1MGX38MS-X	IC		
IC9151	PQ1LAX95MS-X	IC		
IC9201	MM1665AH-X	IC		
IC9301	SI-8005Q-X	IC		
IC9401	MM1663DH-X	IC		
IC9461	MM1663DH-X	IC		
IC9511	PQ090DNA1Z-X	IC		
Q6101	2SC1623A/5-6/-X	TRANSISTOR		
Q6106	UN2226-X	DIGI TRANSISTOR		
Q6107	UN2226-X	DIGI TRANSISTOR		
Q6108	2SA812A/5-6/-X	TRANSISTOR		
Q6109	2SA812A/5-6/-X	TRANSISTOR		
Q7001	DTA144EKA-X	DIGI TRANSISTOR		
Q7002	2SC1623A/5-6/-X	TRANSISTOR		
Q7004	DTA144EKA-X	DIGI TRANSISTOR		
Q7005	DTA144EKA-X	DIGI TRANSISTOR		
Q7007	2SC1623A/5-6/-X	TRANSISTOR		
Q8501	DTA144EKA-X	DIGI TRANSISTOR		
Q8502	DTC144EKA-X	DIGI TRANSISTOR		
Q8503	DTC144EKA-X	DIGI TRANSISTOR		
Q8504	DTC144EKA-X	DIGI TRANSISTOR		
Q8507	2SK1228-X	MOS FET		
Q8508	2SK1228-X	MOS FET		
Q8509	DTC144EKA-X	DIGI TRANSISTOR		
Q8510	DTC144EKA-X	DIGI TRANSISTOR		
Q9201	2SC1623A/5-6/-X	TRANSISTOR		
Q9301	2SC1623A/5-6/-X	TRANSISTOR		
D6103	1SS355W-X	DIODE		
D6104	1SS355W-X	DIODE		
D6105	1SS355W-X	DIODE		
D7008	UDZW5.6B-X	Z DIODE		
D7009	UDZW5.6B-X	Z DIODE		
D7010	UDZW5.6B-X	Z DIODE		
D7011	UDZW5.6B-X	Z DIODE		
D7012	UDZW5.6B-X	Z DIODE		
D7013	UDZW5.6B-X	Z DIODE		
D7014	UDZW5.6B-X	Z DIODE		
D7015	UDZW5.6B-X	Z DIODE		
D7016	UDZW5.6B-X	Z DIODE		
D7017	UDZW5.6B-X	Z DIODE		
D7018	UDZW5.6B-X	Z DIODE		
D7019	UDZW5.6B-X	Z DIODE		
D7020	UDZW5.6B-X	Z DIODE		
D7021	UDZW5.6B-X	Z DIODE		
D7022	UDZW5.6B-X	Z DIODE		
D8502	1SS355W-X	DIODE		
D8503	1SS355W-X	DIODE		
D8504	1SS355W-X	DIODE		
D8533	1SS355W-X	DIODE		
D9203	PTZ6.8B-X	Z DIODE		
D9204	1SS355W-X	DIODE		
D9206	UDZW3.0B-X	Z DIODE		
D9301	SJPB-L4-X	SB DIODE		
D9302	SJPB-L4-X	SB DIODE		

△Ref No.	Part No.	Part Name	Description	Local
D9303	PTZ6.8B-X	Z DIODE		
D9304	1SS355W-X	DIODE		
C6101	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6102	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6103	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6104	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6105	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6106	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6107	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C6108	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C6109	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6110	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6111	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C6112	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6113	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6114	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6115	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6116	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6117	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6118	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6119	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6120	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6121	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6122	NEHL1CM-226X	E CAPACITOR	22uF 16V M	
C6125	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6126	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6127	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6128	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6129	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6130	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6131	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6132	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C6134	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6135	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6136	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6137	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C6139	NEHQ1VM-227X	E CAPACITOR	220uF 35V M	
C6140	NEHQ1VM-227X	E CAPACITOR	220uF 35V M	
C6141	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6143	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6150	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C6151	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C6152	NEHL1CM-107X	E CAPACITOR	100uF 16V M	
C6153	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C6154	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C6501	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6502	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6507	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6508	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C7001	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7002	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C7003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7005	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7006	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C7007	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7009	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7010	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7011	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7015	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7017	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7018	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7019	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7021	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7023	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7024	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7026	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7028	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7029	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7030	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7031	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7032	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7033	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7034	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7035	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7039	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7040	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7041	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7043	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7044	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7046	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7047	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7048	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7049	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7050	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7051	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C7052	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	C9221	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7053	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	C9301	NCJ41HK-335X-U	C CAPACITOR	3.3uF 50V K
C7054	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9303	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7056	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C9304	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7058	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	C9305	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C7059	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9306	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7060	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C9308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7061	NCB31HK-273X	C CAPACITOR	0.027uF 50V K	C9309	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7062	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C9310	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7063	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9401	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7064	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9402	NEHM1CM-106X	E CAPACITOR	10uF 16V M
C7065	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9403	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C7066	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9404	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C7067	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9410	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M
C7068	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9411	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M
C7069	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9461	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7070	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9462	NEHM1CM-106X	E CAPACITOR	10uF 16V M
C7071	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C9463	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C7072	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C9464	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C7073	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9465	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7074	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9466	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7075	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9467	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7076	NCB31CK-105X	C CAPACITOR	1uF 16V K	C9511	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C7078	NCB31CK-105X	C CAPACITOR	1uF 16V K	C9512	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C7079	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6101	NCB31CK-105X	C CAPACITOR	1uF 16V K
C7080	NCB31CK-105X	C CAPACITOR	1uF 16V K	R6102	NCB31CK-105X	C CAPACITOR	1uF 16V K
C7083	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7084	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6108	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7085	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7086	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7087	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6115	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C7088	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6116	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C7089	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6117	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C7090	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6118	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7091	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6119	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7092	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6120	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
C7093	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6121	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
C7094	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7095	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6123	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7096	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6129	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C7097	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7098	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6133	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C7099	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6135	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C7101	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6140	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C7102	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6141	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7103	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6142	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7104	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6144	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
C7105	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6146	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C7107	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6148	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C7108	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R6149	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7109	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6150	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C7111	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7112	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7113	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6508	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7114	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6509	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7115	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7116	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7117	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7005	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C7118	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7119	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7120	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7121	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7122	NCB31CK-105X	C CAPACITOR	1uF 16V K	R7017	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7123	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R7020	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7124	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7023	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C7127	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7025	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7129	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7026	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7131	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7034	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7135	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7035	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7136	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R7036	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7138	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7037	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7139	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7038	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7140	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7039	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C8501	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R7040	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C8502	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C8503	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9101	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7043	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9102	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7044	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C9103	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7045	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9105	NEZ0034-157X	E CAPACITOR	150uF	R7046	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
C9151	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7047	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9152	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7048	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9153	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7049	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9201	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7052	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D
C9202	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7053	NRSA63D-302X	MG RESISTOR	3kΩ 1/16W D
C9203	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7054	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D
C9204	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R7055	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9205	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7057	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9210	NEHM1HM-105X	E CAPACITOR	1uF 50V M				

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R7059	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R9305	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D
R7061	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R9306	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R7062	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R9307	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R7063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	R9308	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R7064	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9321	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R7070	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R9322	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R7071	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R9410	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R7072	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7073	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA7001	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7077	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA7002	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7078	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA7003	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7079	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA8001	NRZ0033-0R0W	NET RESISTOR	0Ω
R7080	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8002	NRZ0033-0R0W	NET RESISTOR	0Ω
R7081	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8003	NRZ0033-0R0W	NET RESISTOR	0Ω
R7082	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8004	NRZ0033-0R0W	NET RESISTOR	0Ω
R7083	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L6101	NQLF3EM-330X	COIL	33uH M
R7084	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L6102	NQLF3EM-330X	COIL	33uH M
R7085	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7001	NQR0339-001X	FERRITE BEADS	
R7086	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7002	NQR0339-001X	FERRITE BEADS	
R7087	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7003	NQR0339-001X	FERRITE BEADS	
R7088	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	L7004	NQR0339-001X	FERRITE BEADS	
R7089	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7005	NQR0339-001X	FERRITE BEADS	
R7090	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7006	NQR0339-001X	FERRITE BEADS	
R7091	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	L7007	NQR0339-001X	FERRITE BEADS	
R7094	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L7008	NQR0339-001X	FERRITE BEADS	
R7095	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L7009	NQR0339-001X	FERRITE BEADS	
R7096	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L7010	NQR0339-001X	FERRITE BEADS	
R7097	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L7011	NQR0339-001X	FERRITE BEADS	
R7098	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L7012	NQR0339-001X	FERRITE BEADS	
R7099	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L7013	NQR0339-001X	FERRITE BEADS	
R7101	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L7014	NQR0339-001X	FERRITE BEADS	
R7102	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	L7015	NQR0339-001X	FERRITE BEADS	
R7103	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L7016	NQR0339-001X	FERRITE BEADS	
R7107	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7017	NQR0339-001X	FERRITE BEADS	
R7108	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L7018	NQR0339-001X	FERRITE BEADS	
R7109	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	L7019	NQR0339-001X	FERRITE BEADS	
R7111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L9301	NQL98EM-150X	COIL	15uH M
R7113	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L9401	NQLD7EM-150X	COIL	15uH M
R7114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	CN007	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN008	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7116	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	CN009	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	CN0LV	QGF1048F1-30X	CONNECTOR	FFC/FPC (1-30)
R7118	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	J8501	NNZ0228-001	HDMI CONNECTOR	DIGITAL IN
R7119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K6101	NQR0339-001X	FERRITE BEADS	
R7120	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K6102	NQR0339-001X	FERRITE BEADS	
R7121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K6103	NQR0339-001X	FERRITE BEADS	
R7122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K6104	NQR0339-001X	FERRITE BEADS	
R7123	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K6105	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7126	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	K7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7129	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K7002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7133	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7134	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7135	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7136	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7137	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7139	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7140	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7141	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7142	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7013	NQR0199-004X	FERRITE BEADS	
R8501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K7014	NQR0199-004X	FERRITE BEADS	
R8503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	K7020	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8504	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	K7022	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8508	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7024	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8509	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7026	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8520	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	K9101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8521	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K9151	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8536	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	K9201	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8537	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	K9202	NQL79GM-2R2X	COIL	2.2uH M
R9101	NRS016J-100X	MG RESISTOR	10Ω 1W J	K9301	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9103	NRSA63D-123X	MG RESISTOR	12kΩ 1/16W D	K9302	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9104	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9106	NRS016J-100X	MG RESISTOR	10Ω 1W J	K9461	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9151	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	K9462	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9152	NRSA63D-393X	MG RESISTOR	39kΩ 1/16W D	K9463	NQR0339-001X	FERRITE BEADS	
R9153	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9464	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9201	NRS016J-270X	MG RESISTOR	27Ω 1W J	X7001	NAX0967-001X	CRYSTAL	36.864MHz
R9202	NRS016J-270X	MG RESISTOR	27Ω 1W J	X7002	NAX0900-001X	CRYSTAL	27.000MHz
R9206	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J				
R9207	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J				
R9208	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J				
R9209	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R9221	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R9222	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J				
R9301	NRSA02J-680X	MG RESISTOR	68Ω 1/10W J				
R9302	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R9303	NRSA63D-683X	MG RESISTOR	68kΩ 1/16W D				
R9304	NRSA63D-154X	MG RESISTOR	150kΩ 1/16W D				

# PRINTED WIRING BOARD PARTS LIST [LT-22EX19/MAT]

## ANALOG P.W. BOARD ASS'Y (SFU-1517A-H2)

REFER TO PARTS LIST IN PAGE 3-6 FOR THIS P.W. BOARD.

## SW P.W. BOARD ASS'Y (SFU-7527A-H2)

REFER TO PARTS LIST IN PAGE 3-6 FOR THIS P.W. BOARD.

## LED+IR P.W. BOARD ASS'Y (SFU-8515A-H2)

REFER TO PARTS LIST IN PAGE 3-7 FOR THIS P.W. BOARD.

## DIGITAL P.W. BOARD ASS'Y (SFU0D559A-H2)

△Ref No.	Part No.	Part Name	Description	Local
IC6001	R2A15112FP-X	IC		
IC6002	R2A15905FP	IC		
IC7001	R8J03020FP	IC		
IC7002	ATF64-22EX19M	IC	(SERVICE)	
IC7003	25VF080B32EX18B	IC(MICRO C ROM)	(SERVICE)	
IC7004	TC7WH08FU-X	IC		
IC7005	S-80928CLNB-G-W	IC		
IC8501	ATF02-32EX18A1	IC	(SERVICE)	
IC9101	PQ1MGX38MS-X	IC		
IC9151	PQ1LAX95MS-X	IC		
IC9201	MM1665AH-X	IC		
IC9301	SI-8005Q-X	IC		
IC9401	MM1663DH-X	IC		
IC9461	MM1663DH-X	IC		
IC9511	PQ090DNA1Z-X	IC		
Q6101	2SC1623A/5-6/-X	TRANSISTOR		
Q6106	UN2226-X	DIGI TRANSISTOR		
Q6107	UN2226-X	DIGI TRANSISTOR		
Q6108	2SA812A/5-6/-X	TRANSISTOR		
Q6109	2SA812A/5-6/-X	TRANSISTOR		
Q7001	DTA144EKA-X	DIGI TRANSISTOR		
Q7002	2SC1623A/5-6/-X	TRANSISTOR		
Q7004	DTA144EKA-X	DIGI TRANSISTOR		
Q7005	DTA144EKA-X	DIGI TRANSISTOR		
Q7007	2SC1623A/5-6/-X	TRANSISTOR		
Q8501	DTA144EKA-X	DIGI TRANSISTOR		
Q8502	DTC144EKA-X	DIGI TRANSISTOR		
Q8503	DTC144EKA-X	DIGI TRANSISTOR		
Q8504	DTC144EKA-X	DIGI TRANSISTOR		
Q8507	2SK1228-X	MOS FET		
Q8508	2SK1228-X	MOS FET		
Q8509	DTC144EKA-X	DIGI TRANSISTOR		
Q8510	DTC144EKA-X	DIGI TRANSISTOR		
Q9201	2SC1623A/5-6/-X	TRANSISTOR		
Q9301	2SC1623A/5-6/-X	TRANSISTOR		
D6103	1SS355W-X	DIODE		
D6104	1SS355W-X	DIODE		
D6105	1SS355W-X	DIODE		
D7008	UDZW5.6B-X	Z DIODE		
D7009	UDZW5.6B-X	Z DIODE		
D7010	UDZW5.6B-X	Z DIODE		
D7011	UDZW5.6B-X	Z DIODE		
D7012	UDZW5.6B-X	Z DIODE		
D7013	UDZW5.6B-X	Z DIODE		
D7014	UDZW5.6B-X	Z DIODE		
D7015	UDZW5.6B-X	Z DIODE		
D7016	UDZW5.6B-X	Z DIODE		
D7017	UDZW5.6B-X	Z DIODE		
D7018	UDZW5.6B-X	Z DIODE		
D7019	UDZW5.6B-X	Z DIODE		
D7020	UDZW5.6B-X	Z DIODE		
D7021	UDZW5.6B-X	Z DIODE		
D7022	UDZW5.6B-X	Z DIODE		
D8502	1SS355W-X	DIODE		
D8503	1SS355W-X	DIODE		
D8504	1SS355W-X	DIODE		
D8533	1SS355W-X	DIODE		
D9203	PTZ6.8B-X	Z DIODE		
D9204	1SS355W-X	DIODE		
D9206	UDZW3.0B-X	Z DIODE		
D9301	SJPB-L4-X	SB DIODE		
D9302	SJPB-L4-X	SB DIODE		
D9303	PTZ6.8B-X	Z DIODE		
D9304	1SS355W-X	DIODE		

△Ref No.	Part No.	Part Name	Description	Local
C6101	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6102	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6103	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6104	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6105	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6106	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6107	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C6108	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C6109	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6110	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6111	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C6112	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6113	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6114	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6115	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6116	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6117	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6118	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6119	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6120	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6121	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6122	NEHL1CM-226X	E CAPACITOR	22uF 16V M	
C6125	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6126	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6127	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6128	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6129	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6130	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6131	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6132	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C6134	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6135	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6136	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6137	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C6139	NEHQ1VM-227X	E CAPACITOR	220uF 35V M	
C6140	NEHQ1VM-227X	E CAPACITOR	220uF 35V M	
C6141	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6143	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6150	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C6151	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C6152	NEHL1CM-107X	E CAPACITOR	100uF 16V M	
C6153	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C6154	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C6501	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6502	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6507	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6508	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C7001	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7002	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C7003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7005	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7006	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C7007	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7009	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7010	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7011	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7015	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7017	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7018	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7019	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7021	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7023	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7024	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7026	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7028	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7029	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7030	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7031	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7032	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7033	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7034	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7035	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7039	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7040	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7041	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7043	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7044	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7046	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7047	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7048	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7049	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7050	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C7051	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9210	NEHM1HM-105X	E CAPACITOR	1uF 50V M
C7052	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	C9221	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7053	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	C9301	NCJ41HK-335X-U	C CAPACITOR	3.3uF 50V K
C7054	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9303	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7056	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C9304	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7058	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	C9305	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C7059	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9306	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7060	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C9308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7061	NCB31HK-273X	C CAPACITOR	0.027uF 50V K	C9309	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7062	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C9310	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7063	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9401	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7064	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9402	NEHM1CM-106X	E CAPACITOR	10uF 16V M
C7065	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9403	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C7066	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9404	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C7067	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9410	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M
C7068	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9411	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M
C7069	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9461	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7070	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9462	NEHM1CM-106X	E CAPACITOR	10uF 16V M
C7071	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C9463	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C7072	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C9464	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C7073	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9465	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7074	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9466	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7075	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9467	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7076	NCB31CK-105X	C CAPACITOR	1uF 16V K	C9511	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C7078	NCB31CK-105X	C CAPACITOR	1uF 16V K	C9512	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C7079	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6101	NCB31CK-105X	C CAPACITOR	1uF 16V K
C7080	NCB31CK-105X	C CAPACITOR	1uF 16V K	R6102	NCB31CK-105X	C CAPACITOR	1uF 16V K
C7083	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7084	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6108	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7085	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7086	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7087	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6115	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C7088	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6116	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C7089	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6117	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C7090	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6118	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7091	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6119	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7092	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6120	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
C7093	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6121	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
C7094	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7095	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6123	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7096	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6129	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C7097	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7098	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6133	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C7099	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6135	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C7101	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6140	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C7102	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6141	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7103	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6142	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7104	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6144	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
C7105	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6146	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C7107	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6148	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C7108	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R6149	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7109	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6150	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C7111	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7112	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7113	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6508	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7114	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6509	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7115	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7116	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7117	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7005	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C7118	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7119	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7120	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7121	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7122	NCB31CK-105X	C CAPACITOR	1uF 16V K	R7017	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7123	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R7020	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7124	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7023	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C7127	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7025	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7129	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7026	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7131	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7034	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7135	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7035	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7136	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R7036	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7138	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7037	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7139	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7038	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7140	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7039	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C8501	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R7040	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C8502	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C8503	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9101	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7043	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9102	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7044	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C9103	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7045	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9105	NEZ0034-157X	E CAPACITOR	150uF	R7046	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
C9151	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7047	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9152	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7048	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9153	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7049	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9201	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7052	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D
C9202	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7053	NRSA63D-302X	MG RESISTOR	3kΩ 1/16W D
C9203	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7054	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D
C9204	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R7055	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9205	NCB31AK-105X	C CAPACITOR	1uF 10V K				

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R7057	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	R9304	NRSA63D-154X	MG RESISTOR	150kΩ 1/16W D
R7059	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R9305	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D
R7061	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R9306	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R7062	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R9307	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R7063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	R9308	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R7064	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9321	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R7070	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R9322	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R7071	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R9410	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R7072	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7073	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA7001	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7077	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA7002	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7078	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA7003	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7079	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA8001	NRZ0033-0R0W	NET RESISTOR	0Ω
R7080	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8002	NRZ0033-0R0W	NET RESISTOR	0Ω
R7081	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8003	NRZ0033-0R0W	NET RESISTOR	0Ω
R7082	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8004	NRZ0033-0R0W	NET RESISTOR	0Ω
R7083	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R7084	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L6101	NQLF3EM-330X	COIL	33uH M
R7085	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L6102	NQLF3EM-330X	COIL	33uH M
R7086	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7001	NQR0339-001X	FERRITE BEADS	
R7087	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7002	NQR0339-001X	FERRITE BEADS	
R7088	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	L7003	NQR0339-001X	FERRITE BEADS	
R7089	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7004	NQR0339-001X	FERRITE BEADS	
R7090	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7005	NQR0339-001X	FERRITE BEADS	
R7091	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	L7006	NQR0339-001X	FERRITE BEADS	
R7094	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L7007	NQR0339-001X	FERRITE BEADS	
R7095	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L7008	NQR0339-001X	FERRITE BEADS	
R7096	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L7009	NQR0339-001X	FERRITE BEADS	
R7097	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L7010	NQR0339-001X	FERRITE BEADS	
R7098	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L7011	NQR0339-001X	FERRITE BEADS	
R7099	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L7012	NQR0339-001X	FERRITE BEADS	
R7101	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L7013	NQR0339-001X	FERRITE BEADS	
R7102	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	L7014	NQR0339-001X	FERRITE BEADS	
R7103	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L7015	NQR0339-001X	FERRITE BEADS	
R7107	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7016	NQR0339-001X	FERRITE BEADS	
R7108	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L7017	NQR0339-001X	FERRITE BEADS	
R7109	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	L7018	NQR0339-001X	FERRITE BEADS	
R7111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L7019	NQR0339-001X	FERRITE BEADS	
R7113	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L9301	NQL98EM-150X	COIL	15uH M
R7114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	L9401	NQLD7EM-150X	COIL	15uH M
R7115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R7116	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	CN007	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	CN008	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7118	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN009	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN0LV	QGF1048F1-30X	CONNECTOR	FFC/FPC (1-30)
R7120	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	J8501	NNZ0228-001	HDMI CONNECTOR	DIGITAL IN
R7121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K6101	NQR0339-001X	FERRITE BEADS	
R7122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K6102	NQR0339-001X	FERRITE BEADS	
R7123	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K6103	NQR0339-001X	FERRITE BEADS	
R7126	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	K6104	NQR0339-001X	FERRITE BEADS	
R7129	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K6105	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7133	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7134	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7135	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7136	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7137	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7139	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7140	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7141	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7142	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R8501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K7012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R8503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	K7013	NQR0199-004X	FERRITE BEADS	
R8504	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	K7014	NQR0199-004X	FERRITE BEADS	
R8508	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7020	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8509	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7022	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8520	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	K7024	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8521	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7026	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8536	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	K9101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8537	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	K9151	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9101	NRS016J-100X	MG RESISTOR	10Ω 1W J	K9201	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9103	NRSA63D-123X	MG RESISTOR	12kΩ 1/16W D	K9202	NQL79GM-2R2X	COIL	2.2uH M
R9104	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9301	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9106	NRS016J-100X	MG RESISTOR	10Ω 1W J	K9302	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9151	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	K9401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9152	NRSA63D-393X	MG RESISTOR	39kΩ 1/16W D	K9461	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9153	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9462	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9201	NRS016J-270X	MG RESISTOR	27Ω 1W J	K9463	NQR0339-001X	FERRITE BEADS	
R9202	NRS016J-270X	MG RESISTOR	27Ω 1W J	K9464	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9206	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	X7001	NAX0967-001X	CRYSTAL	36.864MHz
R9207	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	X7002	NAX0900-001X	CRYSTAL	27.000MHz
R9208	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J				
R9209	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R9221	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R9222	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J				
R9301	NRSA02J-680X	MG RESISTOR	68Ω 1/10W J				
R9302	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R9303	NRSA63D-683X	MG RESISTOR	68kΩ 1/16W D				

# PRINTED WIRING BOARD PARTS LIST [LT-22EX19/NASK]

## ANALOG P.W. BOARD ASS'Y (SFU-1520A-H6)

△Ref No.	Part No.	Part Name	Description	Local
IC1003	SN74LV04ANS-X	IC		
Q1001	2SA812A/5-6/-X	TRANSISTOR		
Q1002	2SC1623A/5-6/-X	TRANSISTOR		
Q1003	2SC1623A/5-6/-X	TRANSISTOR		
Q1004	2SC1623A/5-6/-X	TRANSISTOR		
D1004	UDZW5.6B-X	Z DIODE		
D1007	UDZW5.6B-X	Z DIODE		
D1010	UDZW5.6B-X	Z DIODE		
D1013	UDZW5.6B-X	Z DIODE		
D1014	UDZW10B-X	Z DIODE		
D1015	UDZW10B-X	Z DIODE		
D1018	UDZW5.6B-X	Z DIODE		
D1019	UDZW10B-X	Z DIODE		
D1020	UDZW10B-X	Z DIODE		
D1023	UDZW5.6B-X	Z DIODE		
D1026	UDZW5.6B-X	Z DIODE		
D1029	UDZW5.6B-X	Z DIODE		
D1030	NDC21HJ-391X	C CAPACITOR	390pF 50V J	
D1031	NDC21HJ-391X	C CAPACITOR	390pF 50V J	
D1032	UDZW10B-X	Z DIODE		
D1033	UDZW10B-X	Z DIODE		
D1034	UDZW3.9B-X	Z DIODE		
C1001	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1002	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1004	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1005	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1006	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1007	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1008	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1009	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1010	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1011	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1012	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1013	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1014	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1015	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1016	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1017	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1018	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1019	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C1020	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1022	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1027	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1028	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C1029	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C1034	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1035	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C1036	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1037	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1038	NCB31HK-821X	C CAPACITOR	820pF 50V K	
C1039	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C1040	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C1041	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C1042	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1043	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1046	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1048	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1049	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
R1001	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1004	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1008	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1010	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1011	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1012	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1013	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1014	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1015	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1016	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1017	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1018	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1019	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1020	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1022	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1023	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1024	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1025	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1026	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1027	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1028	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1029	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1030	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1032	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1033	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1036	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1037	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1038	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1039	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R1042	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1043	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1044	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1045	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R1047	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1048	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1049	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1050	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1051	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1052	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R1053	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R1054	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1055	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1056	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1057	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R1058	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1059	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1062	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
L1001	QQL244K-100Z	PEAKING COIL	10uH K	
L1002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L1003	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L1004	NQR0339-001X	FERRITE BEADS		
L1005	QQL244K-4R7Z	PEAKING COIL	4.7uH K	
L1006	QQL244K-220Z	P COIL	22uH K	
L1007	QQL244K-180Z	PEAKING COIL	18uH K	
CN1007	QGB1231M1-23	CONNECTOR	B-B (1-23)	
CN1008	QGB1231M1-23	CONNECTOR	B-B (1-23)	
CN1009	QGB1231M1-23	CONNECTOR	B-B (1-23)	
J1001	QNN0727-001	PIN JACK	VIDEO-1	
J1002	QNN0725-002	PIN JACK	VIDEO-1/VIDEO-2	
J1003	QNZ0781-001	D CONNECTOR	PC IN	
J1005	QNS0051-001	3.5 JACK	PC/HDMI ANALOG AUDIO	
J1006	QNS0051-001	3.5 JACK	HEADPHONE	
K1001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1002	NQR0499-002X	FERRITE BEADS		
K1004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
SW P.W. BOARD ASS'Y (SFU-7529A-H2)				
△Ref No.	Part No.	Part Name	Description	Local
R7101	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R7102	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R7103	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R7104	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R7105	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R7106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
S7101	QSW1131-001Z	TACT SWITCH	VOL-	
S7102	QSW1131-001Z	TACT SWITCH	VOL+	
S7103	QSW1131-001Z	TACT SWITCH	TV/VIDEO	
S7104	QSW1131-001Z	TACT SWITCH	POWER	
S7105	QSW1131-001Z	TACT SWITCH	MENU/OK	
S7106	QSW1131-001Z	TACT SWITCH	CH+	
S7107	QSW1131-001Z	TACT SWITCH	CH-	



## LED+IR P.W. BOARD ASS'Y (SFU-8517A-H2)

△Ref No.	Part No.	Part Name	Description	Local
IC8901	GP1UE281RKC1	IR DETECT UNIT		
Q8901	UN2212-X	DIGI TRANSISTOR		
Q8902	UN2110-X	DIGI TRANSISTOR		
D8901	SELT5E20CS/EF/T	LED		
C8901	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C8905	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C8906	NCB11AK-106X	C CAPACITOR	10uF 10V K	
R8901	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8902	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R8912	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	

## DIGITAL P.W. BOARD ASS'Y (SFU0D561A-H2)

△Ref No.	Part No.	Part Name	Description	Local
IC6001	R2A15112FP-X	IC		
IC6002	R2A15905FP	IC		
IC7001	R8J03020FP	IC		
IC7002	ATF64-22EX19NA	IC	(SERVICE)	
IC7003	25VF080B32EX18A	IC(MICRO C ROM)	(SERVICE)	
IC7004	TC7WH08FU-X	IC		
IC7005	S-80928CLNB-G-W	IC		
IC8501	ATF02-32EX18A1	IC	(SERVICE)	
IC9101	PQ1MGX38MS-X	IC		
IC9151	PQ1LAX95MS-X	IC		
IC9201	MM1665AH-X	IC		
IC9301	SI-8005Q-X	IC		
IC9401	MM1663DH-X	IC		
IC9461	MM1663DH-X	IC		
IC9511	PQ090DNA12-X	IC		
Q6101	2SC1623A/5-6/-X	TRANSISTOR		
Q6106	UN2226-X	DIGI TRANSISTOR		
Q6107	UN2226-X	DIGI TRANSISTOR		
Q6108	2SA812A/5-6/-X	TRANSISTOR		
Q6109	2SA812A/5-6/-X	TRANSISTOR		
Q7001	DTA144EKA-X	DIGI TRANSISTOR		
Q7002	2SC1623A/5-6/-X	TRANSISTOR		
Q7004	DTA144EKA-X	DIGI TRANSISTOR		
Q7005	DTA144EKA-X	DIGI TRANSISTOR		
Q7007	2SC1623A/5-6/-X	TRANSISTOR		
Q8501	DTA144EKA-X	DIGI TRANSISTOR		
Q8502	DTC144EKA-X	DIGI TRANSISTOR		
Q8503	DTC144EKA-X	DIGI TRANSISTOR		
Q8504	DTC144EKA-X	DIGI TRANSISTOR		
Q8507	2SK1228-X	MOS FET		
Q8508	2SK1228-X	MOS FET		
Q8509	DTC144EKA-X	DIGI TRANSISTOR		
Q8510	DTC144EKA-X	DIGI TRANSISTOR		
Q9201	2SC1623A/5-6/-X	TRANSISTOR		
Q9301	2SC1623A/5-6/-X	TRANSISTOR		
D6103	1SS355W-X	DIODE		
D6104	1SS355W-X	DIODE		
D6105	1SS355W-X	DIODE		
D7008	UDZW5.6B-X	Z DIODE		
D7009	UDZW5.6B-X	Z DIODE		
D7010	UDZW5.6B-X	Z DIODE		
D7011	UDZW5.6B-X	Z DIODE		
D7012	UDZW5.6B-X	Z DIODE		
D7013	UDZW5.6B-X	Z DIODE		
D7014	UDZW5.6B-X	Z DIODE		
D7015	UDZW5.6B-X	Z DIODE		
D7016	UDZW5.6B-X	Z DIODE		
D7017	UDZW5.6B-X	Z DIODE		
D7018	UDZW5.6B-X	Z DIODE		
D7019	UDZW5.6B-X	Z DIODE		
D7020	UDZW5.6B-X	Z DIODE		
D7021	UDZW5.6B-X	Z DIODE		
D7022	UDZW5.6B-X	Z DIODE		
D8502	1SS355W-X	DIODE		
D8503	1SS355W-X	DIODE		
D8504	1SS355W-X	DIODE		
D8533	1SS355W-X	DIODE		
D9203	PTZ6.8B-X	Z DIODE		
D9204	1SS355W-X	DIODE		
D9206	UDZW3.0B-X	Z DIODE		
D9301	SJPB-L4-X	SB DIODE		
D9302	SJPB-L4-X	SB DIODE		

△Ref No.	Part No.	Part Name	Description	Local
D9303	PTZ6.8B-X	Z DIODE		
D9304	1SS355W-X	DIODE		
C6101	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6102	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6103	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6104	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6105	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6106	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6107	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C6108	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C6109	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6110	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6111	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C6112	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6113	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6114	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6115	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6116	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6117	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6118	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6119	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6120	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6121	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6122	NEHL1CM-226X	E CAPACITOR	22uF 16V M	
C6125	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6126	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6127	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6128	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6129	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6130	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6131	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6132	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C6134	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6135	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6136	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6137	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C6139	NEHQ1VM-227X	E CAPACITOR	220uF 35V M	
C6140	NEHQ1VM-227X	E CAPACITOR	220uF 35V M	
C6141	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6144	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6150	NEHLOGM-227X	E CAPACITOR	220uF 4V M	
C6151	NEHLOGM-227X	E CAPACITOR	220uF 4V M	
C6152	NEHL1CM-107X	E CAPACITOR	100uF 16V M	
C6153	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C6154	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C6501	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6502	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6507	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6508	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C7001	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7002	NEHLOGM-227X	E CAPACITOR	220uF 4V M	
C7003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7005	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7006	NEHLOGM-227X	E CAPACITOR	220uF 4V M	
C7007	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7009	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7010	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7011	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7015	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7017	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7018	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7019	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7021	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7023	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7024	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7026	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7028	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7029	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7030	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7031	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7032	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7033	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7034	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7035	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7039	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7040	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7041	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7043	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7044	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7046	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7047	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7048	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7049	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7050	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7051	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C7052	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	C9221	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7053	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	C9301	NCJ41HK-335X-U	C CAPACITOR	3.3uF 50V K
C7054	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9303	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7056	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C9304	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7058	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	C9305	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C7059	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9306	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7060	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C9308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7061	NCB31HK-273X	C CAPACITOR	0.027uF 50V K	C9309	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7062	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C9310	NCJ41EK-106X-U	C CAPACITOR	0.1uF 50V K
C7063	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9401	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7064	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9402	NEHM1CM-106X	E CAPACITOR	10uF 16V M
C7065	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9403	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C7066	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9404	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C7067	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9410	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M
C7068	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9411	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M
C7069	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9461	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7070	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9462	NEHM1CM-106X	E CAPACITOR	10uF 16V M
C7071	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C9463	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C7072	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C9464	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C7073	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9465	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7074	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9466	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7075	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9467	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7076	NCB31CK-105X	C CAPACITOR	1uF 16V K	C9511	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C7078	NCB31CK-105X	C CAPACITOR	1uF 16V K	C9512	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C7079	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6101	NCB31CK-105X	C CAPACITOR	1uF 16V K
C7080	NCB31CK-105X	C CAPACITOR	1uF 16V K	R6102	NCB31CK-105X	C CAPACITOR	1uF 16V K
C7083	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7084	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6108	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7085	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7086	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7087	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6115	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C7088	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6116	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C7089	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6117	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C7090	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6118	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7091	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6119	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7092	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6120	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
C7093	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6121	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
C7094	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7095	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6123	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7096	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6129	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C7097	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7098	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6133	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C7099	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6135	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C7101	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6140	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C7102	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6141	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7103	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6142	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7104	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6144	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
C7105	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6146	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C7107	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6148	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C7108	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R6149	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7109	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6150	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C7111	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7112	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7113	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6508	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7114	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6509	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7115	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7116	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7117	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7005	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C7118	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7119	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7120	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7121	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7122	NCB31CK-105X	C CAPACITOR	1uF 16V K	R7017	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7123	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R7020	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7124	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7023	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C7127	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7025	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7129	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7026	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7131	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7034	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7135	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7035	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7136	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R7036	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7138	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7037	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7139	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7038	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7140	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7039	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C8501	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R7040	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C8502	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C8503	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9101	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7043	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9102	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7044	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C9103	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7045	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9105	NEZ0034-157X	E CAPACITOR	150uF	R7046	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
C9151	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7047	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9152	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7048	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9153	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7049	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9201	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7052	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D
C9202	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7053	NRSA63D-302X	MG RESISTOR	3kΩ 1/16W D
C9203	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7054	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D
C9204	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R7055	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9205	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7057	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9210	NEHM1HM-105X	E CAPACITOR	1uF 50V M				

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R7059	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R9305	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D
R7061	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R9306	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R7062	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R9307	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R7063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	R9308	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R7064	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9321	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R7070	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R9322	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R7071	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R9410	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R7072	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7073	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA7001	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7077	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA7002	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7078	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA7003	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7079	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA8001	NRZ0033-0R0W	NET RESISTOR	0Ω
R7080	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8002	NRZ0033-0R0W	NET RESISTOR	0Ω
R7081	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8003	NRZ0033-0R0W	NET RESISTOR	0Ω
R7082	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8004	NRZ0033-0R0W	NET RESISTOR	0Ω
R7083	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R7084	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L6101	NQLF3EM-330X	COIL	33uH M
R7085	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L6102	NQLF3EM-330X	COIL	33uH M
R7086	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7001	NQR0339-001X	FERRITE BEADS	
R7087	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7002	NQR0339-001X	FERRITE BEADS	
R7088	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	L7003	NQR0339-001X	FERRITE BEADS	
R7089	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7004	NQR0339-001X	FERRITE BEADS	
R7090	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7005	NQR0339-001X	FERRITE BEADS	
R7091	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	L7006	NQR0339-001X	FERRITE BEADS	
R7094	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L7007	NQR0339-001X	FERRITE BEADS	
R7095	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L7008	NQR0339-001X	FERRITE BEADS	
R7096	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L7009	NQR0339-001X	FERRITE BEADS	
R7097	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L7010	NQR0339-001X	FERRITE BEADS	
R7098	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L7011	NQR0339-001X	FERRITE BEADS	
R7099	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L7012	NQR0339-001X	FERRITE BEADS	
R7101	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L7013	NQR0339-001X	FERRITE BEADS	
R7102	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	L7014	NQR0339-001X	FERRITE BEADS	
R7103	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L7015	NQR0339-001X	FERRITE BEADS	
R7107	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7016	NQR0339-001X	FERRITE BEADS	
R7108	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L7017	NQR0339-001X	FERRITE BEADS	
R7109	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	L7018	NQR0339-001X	FERRITE BEADS	
R7111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L7019	NQR0339-001X	FERRITE BEADS	
R7113	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L9301	NQL98EM-150X	COIL	15uH M
R7114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	L9401	NQLD7EM-150X	COIL	15uH M
R7115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R7116	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	CN007	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	CN008	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7118	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN009	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN0LV	QGF1048F1-30X	CONNECTOR	FFC/FPC (1-30)
R7120	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	J8501	NNZ0228-001	HDMI CONNECTOR	DIGITAL IN
R7121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K6101	NQR0339-001X	FERRITE BEADS	
R7122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K6102	NQR0339-001X	FERRITE BEADS	
R7123	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K6103	NQR0339-001X	FERRITE BEADS	
R7126	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	K6104	NQR0339-001X	FERRITE BEADS	
R7129	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K6105	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7133	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7134	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7135	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7136	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7137	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7139	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7140	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7141	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7142	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R8501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K7012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R8503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	K7013	NQR0199-004X	FERRITE BEADS	
R8504	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	K7014	NQR0199-004X	FERRITE BEADS	
R8508	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7020	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8509	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7022	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8520	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	K7024	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8521	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7026	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8536	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	K9101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8537	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	K9151	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9101	NRS016J-100X	MG RESISTOR	10Ω 1W J	K9201	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9103	NRSA63D-123X	MG RESISTOR	12kΩ 1/16W D	K9202	NQL79GM-2R2X	COIL	2.2uH M
R9104	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9301	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9106	NRS016J-100X	MG RESISTOR	10Ω 1W J	K9302	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9151	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	K9401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9152	NRSA63D-393X	MG RESISTOR	39kΩ 1/16W D	K9461	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9153	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9462	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9201	NRS016J-270X	MG RESISTOR	27Ω 1W J	K9463	NQR0339-001X	FERRITE BEADS	
R9202	NRS016J-270X	MG RESISTOR	27Ω 1W J	K9464	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9206	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	X7001	NAX0967-001X	CRYSTAL	36.864MHz
R9207	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	X7002	NAX0900-001X	CRYSTAL	27.000MHz
R9208	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J				
R9209	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R9221	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R9222	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J				
R9301	NRSA02J-680X	MG RESISTOR	68Ω 1/10W J				
R9302	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R9303	NRSA63D-683X	MG RESISTOR	68kΩ 1/16W D				
R9304	NRSA63D-154X	MG RESISTOR	150kΩ 1/16W D				

# PRINTED WIRING BOARD PARTS LIST [LT-22EX19/SAT]

## ANALOG P.W. BOARD ASS'Y (SFU-1517A-H2)

REFER TO PARTS LIST IN PAGE 3-6 FOR THIS P.W. BOARD.

## SW P.W. BOARD ASS'Y (SFU-7527A-H2)

REFER TO PARTS LIST IN PAGE 3-6 FOR THIS P.W. BOARD.

## LED+IR P.W. BOARD ASS'Y (SFU-8515A-H2)

REFER TO PARTS LIST IN PAGE 3-7 FOR THIS P.W. BOARD.

## DIGITAL P.W. BOARD ASS'Y (SFU0D557A-H2)

△Ref No.	Part No.	Part Name	Description	Local
IC6001	R2A15112FP-X	IC		
IC6002	R2A15905FP	IC		
IC7001	R8J03020FP	IC		
IC7002	ATF64-22EX19S	IC	(SERVICE)	
IC7003	25VF080B32EX18A	IC(MICRO C ROM)	(SERVICE)	
IC7004	TC7WH08FU-X	IC		
IC7005	S-80928CLNB-G-W	IC		
IC8501	ATF02-32EX18A1	IC	(SERVICE)	
IC9101	PQ1MGX38MS-X	IC		
IC9151	PQ1LAX95MS-X	IC		
IC9201	MM1665AH-X	IC		
IC9301	SI-8005Q-X	IC		
IC9401	MM1663DH-X	IC		
IC9461	MM1663DH-X	IC		
IC9511	PQ090DNA1Z-X	IC		
Q6101	2SC1623A/5-6/-X	TRANSISTOR		
Q6106	UN2226-X	DIGI TRANSISTOR		
Q6107	UN2226-X	DIGI TRANSISTOR		
Q6108	2SA812A/5-6/-X	TRANSISTOR		
Q6109	2SA812A/5-6/-X	TRANSISTOR		
Q7001	DTA144EKA-X	DIGI TRANSISTOR		
Q7002	2SC1623A/5-6/-X	TRANSISTOR		
Q7004	DTA144EKA-X	DIGI TRANSISTOR		
Q7005	DTA144EKA-X	DIGI TRANSISTOR		
Q7007	2SC1623A/5-6/-X	TRANSISTOR		
Q8501	DTA144EKA-X	DIGI TRANSISTOR		
Q8502	DTC144EKA-X	DIGI TRANSISTOR		
Q8503	DTC144EKA-X	DIGI TRANSISTOR		
Q8504	DTC144EKA-X	DIGI TRANSISTOR		
Q8507	2SK1228-X	MOS FET		
Q8508	2SK1228-X	MOS FET		
Q8509	DTC144EKA-X	DIGI TRANSISTOR		
Q8510	DTC144EKA-X	DIGI TRANSISTOR		
Q9201	2SC1623A/5-6/-X	TRANSISTOR		
Q9301	2SC1623A/5-6/-X	TRANSISTOR		
D6103	1SS355W-X	DIODE		
D6104	1SS355W-X	DIODE		
D6105	1SS355W-X	DIODE		
D7008	UDZW5.6B-X	Z DIODE		
D7009	UDZW5.6B-X	Z DIODE		
D7010	UDZW5.6B-X	Z DIODE		
D7011	UDZW5.6B-X	Z DIODE		
D7012	UDZW5.6B-X	Z DIODE		
D7013	UDZW5.6B-X	Z DIODE		
D7014	UDZW5.6B-X	Z DIODE		
D7015	UDZW5.6B-X	Z DIODE		
D7016	UDZW5.6B-X	Z DIODE		
D7017	UDZW5.6B-X	Z DIODE		
D7018	UDZW5.6B-X	Z DIODE		
D7019	UDZW5.6B-X	Z DIODE		
D7020	UDZW5.6B-X	Z DIODE		
D7021	UDZW5.6B-X	Z DIODE		
D7022	UDZW5.6B-X	Z DIODE		
D8502	1SS355W-X	DIODE		
D8503	1SS355W-X	DIODE		
D8504	1SS355W-X	DIODE		
D8533	1SS355W-X	DIODE		
D9203	PTZ6.8B-X	Z DIODE		
D9204	1SS355W-X	DIODE		
D9206	UDZW3.0B-X	Z DIODE		
D9301	SJPB-L4-X	SB DIODE		
D9302	SJPB-L4-X	SB DIODE		
D9303	PTZ6.8B-X	Z DIODE		
D9304	1SS355W-X	DIODE		

△Ref No.	Part No.	Part Name	Description	Local
C6101	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6102	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6103	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6104	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6105	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6106	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6107	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C6108	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C6109	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6110	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6111	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C6112	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6113	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6114	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6115	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6116	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6117	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6118	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6119	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6120	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6121	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6122	NEHL1CM-226X	E CAPACITOR	22uF 16V M	
C6125	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6126	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6127	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6128	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6129	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6130	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6131	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6132	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C6134	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6135	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6136	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6137	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C6139	NEHQ1VM-227X	E CAPACITOR	220uF 35V M	
C6140	NEHQ1VM-227X	E CAPACITOR	220uF 35V M	
C6141	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6143	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6150	NEHLOGM-227X	E CAPACITOR	220uF 4V M	
C6151	NEHLOGM-227X	E CAPACITOR	220uF 4V M	
C6152	NEHL1CM-107X	E CAPACITOR	100uF 16V M	
C6153	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C6154	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C6501	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6502	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6507	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6508	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C7001	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7002	NEHLOGM-227X	E CAPACITOR	220uF 4V M	
C7003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7005	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7006	NEHLOGM-227X	E CAPACITOR	220uF 4V M	
C7007	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7009	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7010	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7011	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7015	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7017	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7018	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7019	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7021	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7023	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7024	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7026	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7028	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7029	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7030	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7031	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7032	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7033	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7034	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7035	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7039	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7040	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7041	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7043	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7044	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7046	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7047	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7048	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7049	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7050	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C7051	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9210	NEHM1HM-105X	E CAPACITOR	1uF 50V M
C7052	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	C9221	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7053	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	C9301	NCJ41HK-335X-U	C CAPACITOR	3.3uF 50V K
C7054	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9303	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7056	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C9304	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7058	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	C9305	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C7059	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9306	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7060	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C9308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7061	NCB31HK-273X	C CAPACITOR	0.027uF 50V K	C9309	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7062	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C9310	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7063	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9401	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7064	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9402	NEHM1CM-106X	E CAPACITOR	10uF 16V M
C7065	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9403	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C7066	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9404	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C7067	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9410	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M
C7068	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9411	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M
C7069	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9461	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7070	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9462	NEHM1CM-106X	E CAPACITOR	10uF 16V M
C7071	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C9463	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C7072	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C9464	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C7073	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9465	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7074	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9466	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7075	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9467	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7076	NCB31CK-105X	C CAPACITOR	1uF 16V K	C9511	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C7078	NCB31CK-105X	C CAPACITOR	1uF 16V K	C9512	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C7079	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6101	NCB31CK-105X	C CAPACITOR	1uF 16V K
C7080	NCB31CK-105X	C CAPACITOR	1uF 16V K	R6102	NCB31CK-105X	C CAPACITOR	1uF 16V K
C7083	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7084	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6108	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7085	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7086	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7087	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6115	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C7088	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6116	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C7089	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6117	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C7090	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6118	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7091	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6119	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7092	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6120	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
C7093	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6121	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
C7094	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7095	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6123	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7096	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6129	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C7097	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7098	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6133	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C7099	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6135	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C7101	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6140	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C7102	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6141	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7103	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6142	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7104	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6144	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
C7105	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6146	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C7107	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6148	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C7108	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R6149	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7109	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6150	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C7111	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7112	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7113	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6508	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7114	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6509	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7115	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7116	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7117	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7005	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C7118	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7119	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7120	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7121	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7122	NCB31CK-105X	C CAPACITOR	1uF 16V K	R7017	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7123	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R7020	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7124	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7023	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C7127	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7025	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7129	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7026	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7131	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7034	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7135	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7035	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7136	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R7036	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7138	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7037	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7139	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7038	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7140	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7039	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C8501	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R7040	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C8502	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C8503	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9101	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7043	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9102	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7044	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C9103	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7045	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9105	NEZ0034-157X	E CAPACITOR	150uF	R7046	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
C9151	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7047	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9152	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7048	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9153	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7049	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9201	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7052	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D
C9202	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7053	NRSA63D-302X	MG RESISTOR	3kΩ 1/16W D
C9203	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7054	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D
C9204	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R7055	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9205	NCB31AK-105X	C CAPACITOR	1uF 10V K				

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R7057	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	R9304	NRSA63D-154X	MG RESISTOR	150kΩ 1/16W D
R7059	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R9305	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D
R7061	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R9306	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R7062	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R9307	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R7063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	R9308	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R7064	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9321	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R7070	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R9322	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R7071	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R9410	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R7072	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7073	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA7001	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7077	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA7002	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7078	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA7003	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7079	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA8001	NRZ0033-0R0W	NET RESISTOR	0Ω
R7080	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8002	NRZ0033-0R0W	NET RESISTOR	0Ω
R7081	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8003	NRZ0033-0R0W	NET RESISTOR	0Ω
R7082	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8004	NRZ0033-0R0W	NET RESISTOR	0Ω
R7083	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R7084	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L6101	NQLF3EM-330X	COIL	33uH M
R7085	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L6102	NQLF3EM-330X	COIL	33uH M
R7086	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7001	NQR0339-001X	FERRITE BEADS	
R7087	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7002	NQR0339-001X	FERRITE BEADS	
R7088	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	L7003	NQR0339-001X	FERRITE BEADS	
R7089	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7004	NQR0339-001X	FERRITE BEADS	
R7090	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7005	NQR0339-001X	FERRITE BEADS	
R7091	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	L7006	NQR0339-001X	FERRITE BEADS	
R7094	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L7007	NQR0339-001X	FERRITE BEADS	
R7095	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L7008	NQR0339-001X	FERRITE BEADS	
R7096	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L7009	NQR0339-001X	FERRITE BEADS	
R7097	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L7010	NQR0339-001X	FERRITE BEADS	
R7098	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L7011	NQR0339-001X	FERRITE BEADS	
R7099	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L7012	NQR0339-001X	FERRITE BEADS	
R7101	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L7013	NQR0339-001X	FERRITE BEADS	
R7102	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	L7014	NQR0339-001X	FERRITE BEADS	
R7103	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L7015	NQR0339-001X	FERRITE BEADS	
R7107	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7016	NQR0339-001X	FERRITE BEADS	
R7108	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L7017	NQR0339-001X	FERRITE BEADS	
R7109	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	L7018	NQR0339-001X	FERRITE BEADS	
R7111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L7019	NQR0339-001X	FERRITE BEADS	
R7113	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L9301	NQL98EM-150X	COIL	15uH M
R7114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	L9401	NQLD7EM-150X	COIL	15uH M
R7115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R7116	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	CN007	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	CN008	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7118	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN009	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN0LV	QGF1048F1-30X	CONNECTOR	FFC/FPC (1-30)
R7120	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	J8501	NNZ0228-001	HDMI CONNECTOR	DIGITAL IN
R7121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K6101	NQR0339-001X	FERRITE BEADS	
R7122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K6102	NQR0339-001X	FERRITE BEADS	
R7123	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K6103	NQR0339-001X	FERRITE BEADS	
R7126	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	K6104	NQR0339-001X	FERRITE BEADS	
R7129	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K6105	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7133	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7134	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7135	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7136	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7137	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7139	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7140	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7141	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7142	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R8501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K7012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R8503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	K7013	NQR0199-004X	FERRITE BEADS	
R8504	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	K7014	NQR0199-004X	FERRITE BEADS	
R8508	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7020	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8509	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7022	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8520	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	K7024	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8521	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7026	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8536	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	K9101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8537	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	K9151	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9101	NRS016J-100X	MG RESISTOR	10Ω 1W J	K9201	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9103	NRSA63D-123X	MG RESISTOR	12kΩ 1/16W D	K9202	NQL79GM-2R2X	COIL	2.2uH M
R9104	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9301	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9106	NRS016J-100X	MG RESISTOR	10Ω 1W J	K9302	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9151	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	K9401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9152	NRSA63D-393X	MG RESISTOR	39kΩ 1/16W D	K9461	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9153	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9462	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9201	NRS016J-270X	MG RESISTOR	27Ω 1W J	K9463	NQR0339-001X	FERRITE BEADS	
R9202	NRS016J-270X	MG RESISTOR	27Ω 1W J	K9464	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9206	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	X7001	NAX0967-001X	CRYSTAL	36.864MHz
R9207	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	X7002	NAX0900-001X	CRYSTAL	27.000MHz
R9208	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J				
R9209	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R9221	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R9222	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J				
R9301	NRSA02J-680X	MG RESISTOR	68Ω 1/10W J				
R9302	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R9303	NRSA63D-683X	MG RESISTOR	68kΩ 1/16W D				

# PRINTED WIRING BOARD PARTS LIST [LT-22EX19/VASK]

## ANALOG P.W. BOARD ASS'Y (SFU-1517A-H2)

REFER TO PARTS LIST IN PAGE 3-6 FOR THIS P.W. BOARD.

## SW P.W. BOARD ASS'Y (SFU-7527A-H2)

REFER TO PARTS LIST IN PAGE 3-6 FOR THIS P.W. BOARD.

## LED+IR P.W. BOARD ASS'Y (SFU-8515A-H2)

REFER TO PARTS LIST IN PAGE 3-7 FOR THIS P.W. BOARD.

## DIGITAL P.W. BOARD ASS'Y (SFU0D562A-H2)

△Ref No.	Part No.	Part Name	Description Local
IC6001	R2A15112FP-X	IC	
IC6002	R2A15905FP	IC	
IC7001	R8J03020FP	IC	
IC7002	ATF64-22EX19VA	IC	(SERVICE)
IC7003	25VF080B32EX18A	IC(MICRO C ROM)	(SERVICE)
IC7004	TC7WH08FU-X	IC	
IC7005	S-80928CLNB-G-W	IC	
IC8501	ATF02-32EX18A1	IC	(SERVICE)
IC9101	PQ1MGX38MS-X	IC	
IC9151	PQ1LAX95MS-X	IC	
IC9201	MM1665AH-X	IC	
IC9301	SI-8005Q-X	IC	
IC9401	MM1663DH-X	IC	
IC9461	MM1663DH-X	IC	
IC9511	PQ090DNA1Z-X	IC	
Q6101	2SC1623A/5-6/-X	TRANSISTOR	
Q6106	UN2226-X	DIGI TRANSISTOR	
Q6107	UN2226-X	DIGI TRANSISTOR	
Q6108	2SA812A/5-6/-X	TRANSISTOR	
Q6109	2SA812A/5-6/-X	TRANSISTOR	
Q7001	DTA144EKA-X	DIGI TRANSISTOR	
Q7002	2SC1623A/5-6/-X	TRANSISTOR	
Q7004	DTA144EKA-X	DIGI TRANSISTOR	
Q7005	DTA144EKA-X	DIGI TRANSISTOR	
Q7007	2SC1623A/5-6/-X	TRANSISTOR	
Q8501	DTA144EKA-X	DIGI TRANSISTOR	
Q8502	DTC144EKA-X	DIGI TRANSISTOR	
Q8503	DTC144EKA-X	DIGI TRANSISTOR	
Q8504	DTC144EKA-X	DIGI TRANSISTOR	
Q8507	2SK1228-X	MOS FET	
Q8508	2SK1228-X	MOS FET	
Q8509	DTC144EKA-X	DIGI TRANSISTOR	
Q8510	DTC144EKA-X	DIGI TRANSISTOR	
Q9201	2SC1623A/5-6/-X	TRANSISTOR	
Q9301	2SC1623A/5-6/-X	TRANSISTOR	
D6103	1SS355W-X	DIODE	
D6104	1SS355W-X	DIODE	
D6105	1SS355W-X	DIODE	
D7008	UDZW5.6B-X	Z DIODE	
D7009	UDZW5.6B-X	Z DIODE	
D7010	UDZW5.6B-X	Z DIODE	
D7011	UDZW5.6B-X	Z DIODE	
D7012	UDZW5.6B-X	Z DIODE	
D7013	UDZW5.6B-X	Z DIODE	
D7014	UDZW5.6B-X	Z DIODE	
D7015	UDZW5.6B-X	Z DIODE	
D7016	UDZW5.6B-X	Z DIODE	
D7017	UDZW5.6B-X	Z DIODE	
D7018	UDZW5.6B-X	Z DIODE	
D7019	UDZW5.6B-X	Z DIODE	
D7020	UDZW5.6B-X	Z DIODE	
D7021	UDZW5.6B-X	Z DIODE	
D7022	UDZW5.6B-X	Z DIODE	
D8502	1SS355W-X	DIODE	
D8503	1SS355W-X	DIODE	
D8504	1SS355W-X	DIODE	
D8533	1SS355W-X	DIODE	
D9203	PTZ6.8B-X	Z DIODE	
D9204	1SS355W-X	DIODE	
D9206	UDZW3.0B-X	Z DIODE	
D9301	SJPB-L4-X	SB DIODE	
D9302	SJPB-L4-X	SB DIODE	
D9303	PTZ6.8B-X	Z DIODE	
D9304	1SS355W-X	DIODE	

△Ref No.	Part No.	Part Name	Description Local
C6101	NCB31CK-105X	C CAPACITOR	1uF 16V K
C6102	NEHL1EM-336X	E CAPACITOR	33uF 25V M
C6103	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C6104	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C6105	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C6106	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C6107	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C6108	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C6109	NCB31CK-105X	C CAPACITOR	1uF 16V K
C6110	NCB31CK-105X	C CAPACITOR	1uF 16V K
C6111	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C6112	NCB31CK-683X	C CAPACITOR	0.068uF 16V K
C6113	NCB31CK-683X	C CAPACITOR	0.068uF 16V K
C6114	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C6115	NCB31CK-683X	C CAPACITOR	0.068uF 16V K
C6116	NCB31CK-683X	C CAPACITOR	0.068uF 16V K
C6117	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C6118	NCB31CK-105X	C CAPACITOR	1uF 16V K
C6119	NCB31CK-105X	C CAPACITOR	1uF 16V K
C6120	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C6121	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C6122	NEHL1CM-226X	E CAPACITOR	22uF 16V M
C6125	NCB31AK-105X	C CAPACITOR	1uF 10V K
C6126	NCB31AK-105X	C CAPACITOR	1uF 10V K
C6127	NCB11AK-106X	C CAPACITOR	10uF 10V K
C6128	NCB11AK-106X	C CAPACITOR	10uF 10V K
C6129	NCB11AK-106X	C CAPACITOR	10uF 10V K
C6130	NCB31CK-105X	C CAPACITOR	1uF 16V K
C6131	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C6132	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C6134	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C6135	NCB11AK-106X	C CAPACITOR	10uF 10V K
C6136	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C6137	NCB21EK-224X	C CAPACITOR	0.22uF 25V K
C6139	NEHQ1VM-227X	E CAPACITOR	220uF 35V M
C6140	NEHQ1VM-227X	E CAPACITOR	220uF 35V M
C6141	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C6143	NEHL1EM-336X	E CAPACITOR	33uF 25V M
C6150	NEHL0GM-227X	E CAPACITOR	220uF 4V M
C6151	NEHL0GM-227X	E CAPACITOR	220uF 4V M
C6152	NEHL1CM-107X	E CAPACITOR	100uF 16V M
C6153	NDC31HJ-470X	C CAPACITOR	47pF 50V J
C6154	NDC31HJ-470X	C CAPACITOR	47pF 50V J
C6501	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M
C6502	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M
C6507	NCB31CK-683X	C CAPACITOR	0.068uF 16V K
C6508	NCB31CK-683X	C CAPACITOR	0.068uF 16V K
C7001	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7002	NEHL0GM-227X	E CAPACITOR	220uF 4V M
C7003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7005	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7006	NEHL0GM-227X	E CAPACITOR	220uF 4V M
C7007	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7009	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7010	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7011	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7015	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7017	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7018	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7019	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7021	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7023	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7024	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7026	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7028	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7029	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7030	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7031	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7032	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7033	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7034	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7035	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7039	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7040	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7041	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7043	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7044	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7046	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7047	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7048	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7049	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7050	NCB31HK-104X	C CAPACITOR	0.1uF 50V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C7051	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9210	NEHM1HM-105X	E CAPACITOR	1uF 50V M
C7052	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	C9221	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7053	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	C9301	NCJ41HK-335X-U	C CAPACITOR	3.3uF 50V K
C7054	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9303	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7056	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C9304	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7058	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	C9305	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C7059	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9306	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7060	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C9308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7061	NCB31HK-273X	C CAPACITOR	0.027uF 50V K	C9309	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7062	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C9310	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C7063	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9401	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7064	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9402	NEHM1CM-106X	E CAPACITOR	10uF 16V M
C7065	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9403	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C7066	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9404	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C7067	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9410	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M
C7068	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9411	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M
C7069	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9461	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7070	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9462	NEHM1CM-106X	E CAPACITOR	10uF 16V M
C7071	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C9463	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C7072	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C9464	NDC31HJ-471X	C CAPACITOR	470pF 50V J
C7073	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9465	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7074	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9466	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7075	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C9467	NCB31AK-105X	C CAPACITOR	1uF 10V K
C7076	NCB31CK-105X	C CAPACITOR	1uF 16V K	C9511	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C7078	NCB31CK-105X	C CAPACITOR	1uF 16V K	C9512	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C7079	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6101	NCB31CK-105X	C CAPACITOR	1uF 16V K
C7080	NCB31CK-105X	C CAPACITOR	1uF 16V K	R6102	NCB31CK-105X	C CAPACITOR	1uF 16V K
C7083	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7084	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6108	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7085	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7086	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7087	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6115	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C7088	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6116	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C7089	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6117	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C7090	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6118	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7091	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6119	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7092	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6120	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
C7093	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6121	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J
C7094	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7095	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6123	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7096	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6129	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C7097	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7098	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6133	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C7099	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6135	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C7101	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6140	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C7102	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6141	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7103	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6142	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7104	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6144	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
C7105	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6146	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C7107	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6148	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C7108	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R6149	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7109	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6150	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C7111	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7112	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7113	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R6508	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7114	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6509	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7115	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7116	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7117	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7005	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C7118	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7119	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7120	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7121	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7122	NCB31CK-105X	C CAPACITOR	1uF 16V K	R7017	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7123	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R7020	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7124	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7023	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C7127	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7025	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7129	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7026	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C7131	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7034	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7135	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7035	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7136	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R7036	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7138	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7037	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7139	NEHL0GM-227X	E CAPACITOR	220uF 4V M	R7038	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7140	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7039	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C8501	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R7040	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C8502	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C8503	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R7042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9101	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7043	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9102	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7044	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C9103	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7045	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9105	NEZ0034-157X	E CAPACITOR	150uF	R7046	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
C9151	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7047	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9152	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7048	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9153	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7049	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9201	NCB31AK-105X	C CAPACITOR	1uF 10V K	R7052	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D
C9202	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R7053	NRSA63D-302X	MG RESISTOR	3kΩ 1/16W D
C9203	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R7054	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D
C9204	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R7055	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
C9205	NCB31AK-105X	C CAPACITOR	1uF 10V K				

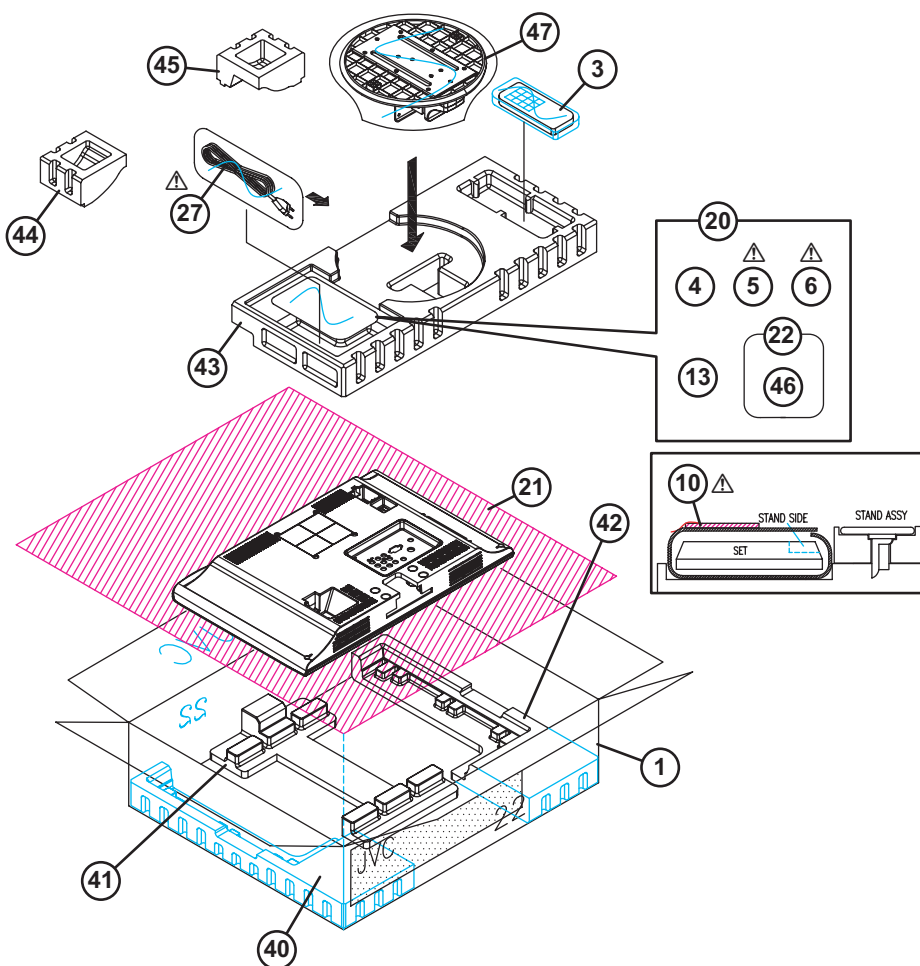


△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R7057	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	R9304	NRSA63D-154X	MG RESISTOR	150kΩ 1/16W D
R7059	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R9305	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D
R7061	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R9306	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R7062	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R9307	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R7063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	R9308	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R7064	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9321	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R7070	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R9322	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R7071	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R9410	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R7072	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7073	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA7001	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7077	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA7002	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7078	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA7003	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7079	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA8001	NRZ0033-0R0W	NET RESISTOR	0Ω
R7080	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8002	NRZ0033-0R0W	NET RESISTOR	0Ω
R7081	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8003	NRZ0033-0R0W	NET RESISTOR	0Ω
R7082	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA8004	NRZ0033-0R0W	NET RESISTOR	0Ω
R7083	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R7084	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L6101	NQLF3EM-330X	COIL	33uH M
R7085	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L6102	NQLF3EM-330X	COIL	33uH M
R7086	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7001	NQR0339-001X	FERRITE BEADS	
R7087	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7002	NQR0339-001X	FERRITE BEADS	
R7088	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	L7003	NQR0339-001X	FERRITE BEADS	
R7089	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7004	NQR0339-001X	FERRITE BEADS	
R7090	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7005	NQR0339-001X	FERRITE BEADS	
R7091	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	L7006	NQR0339-001X	FERRITE BEADS	
R7094	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L7007	NQR0339-001X	FERRITE BEADS	
R7095	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L7008	NQR0339-001X	FERRITE BEADS	
R7096	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L7009	NQR0339-001X	FERRITE BEADS	
R7097	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L7010	NQR0339-001X	FERRITE BEADS	
R7098	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L7011	NQR0339-001X	FERRITE BEADS	
R7099	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L7012	NQR0339-001X	FERRITE BEADS	
R7101	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L7013	NQR0339-001X	FERRITE BEADS	
R7102	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	L7014	NQR0339-001X	FERRITE BEADS	
R7103	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	L7015	NQR0339-001X	FERRITE BEADS	
R7107	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L7016	NQR0339-001X	FERRITE BEADS	
R7108	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L7017	NQR0339-001X	FERRITE BEADS	
R7109	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	L7018	NQR0339-001X	FERRITE BEADS	
R7111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L7019	NQR0339-001X	FERRITE BEADS	
R7113	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L9301	NQL98EM-150X	COIL	15uH M
R7114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	L9401	NQLD7EM-150X	COIL	15uH M
R7115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R7116	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	CN007	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	CN008	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7118	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN009	QGB1231L2-23W	CONNECTOR	B-B (1-23)
R7119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	CN0LV	QGF1048F1-30X	CONNECTOR	FFC/FPC (1-30)
R7120	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	J8501	NNZ0228-001	HDMI CONNECTOR	DIGITAL IN
R7121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K6101	NQR0339-001X	FERRITE BEADS	
R7122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K6102	NQR0339-001X	FERRITE BEADS	
R7123	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K6103	NQR0339-001X	FERRITE BEADS	
R7126	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	K6104	NQR0339-001X	FERRITE BEADS	
R7129	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K6105	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7133	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7134	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7135	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7136	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7137	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7139	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7140	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7141	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7142	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R7152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	K7011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R8501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K7012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J
R8503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	K7013	NQR0199-004X	FERRITE BEADS	
R8504	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	K7014	NQR0199-004X	FERRITE BEADS	
R8508	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7020	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8509	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7022	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8520	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	K7024	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8521	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	K7026	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8536	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	K9101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R8537	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	K9151	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9101	NRS016J-100X	MG RESISTOR	10Ω 1W J	K9201	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9103	NRSA63D-123X	MG RESISTOR	12kΩ 1/16W D	K9202	NQL79GM-2R2X	COIL	2.2uH M
R9104	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9301	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9106	NRS016J-100X	MG RESISTOR	10Ω 1W J	K9302	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9151	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	K9401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9152	NRSA63D-393X	MG RESISTOR	39kΩ 1/16W D	K9461	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9153	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9462	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9201	NRS016J-270X	MG RESISTOR	27Ω 1W J	K9463	NQR0339-001X	FERRITE BEADS	
R9202	NRS016J-270X	MG RESISTOR	27Ω 1W J	K9464	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9206	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	X7001	NAX0967-001X	CRYSTAL	36.864MHz
R9207	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	X7002	NAX0900-001X	CRYSTAL	27.000MHz
R9208	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J				
R9209	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R9221	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J				
R9222	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J				
R9301	NRSA02J-680X	MG RESISTOR	68Ω 1/10W J				
R9302	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R9303	NRSA63D-683X	MG RESISTOR	68kΩ 1/16W D				

# REMOTE CONTROL UNIT PARTS LIST (RM-C2020-1C)

△ Ref.No.	Part No.	Part Name	Description	Local
	10030-0040700	BATTERY COVER		

# PACKING



## PACKING PARTS LIST

△	Ref.No.	Part No.	Part Name	Description	Local
	1	GG10410-029B-H	PACKING CASE		EX19AT,EX19BAT,EX19EAT,EX19LAT,EX19MAT,EX19SAT,EX19VASK
	1	GG10323-034B	PACKING CASE		EX19NASK
	3	RM-C2020-1C	REMOTE CONTROL UNIT		
	4	-----	BATTERY	AAA/R03(x2)	
△	5	GGT0285-001A-H	INST BOOK	English	EX19AT,EX19SAT
△	5	GGT0291-001A-H	INST BOOK	English/Thai	EX19BAT
△	5	GGT0290-001A-H	INST BOOK	Russian/Ukrainian	EX19EAT,EX19NASK
△	5	GGT0289-001A-H	INST BOOK	English/Chinese/Melayu	EX19LAT
△	5	GGT0287-001A-H	INST BOOK	English/Castallano/Russian/Portugal	EX19MAT
△	5	GGT0292-001A-E	INST BOOK	English/Vietnam	EX19VASK
△	6	GGT0286-001A-H	INST BOOK	Russian/French/Chinese/Arabic/Persian	EX19/AT,EX19SAT
△	10	GGT0229-001A-H	INST SHEET	English/Thai/Arabic/Persian/French/Russian/Ukrainian/Chinese/Spanish	EX19AT,EX19BAT,EX19EAT,EX19LAT,EX19MAT,EX19NASK,EX19SAT
△	10	GGT0239-001A-E	INST SHEET	English/Vietnam	EX19VASK
	13	-----	WARRANTY CARD	BT-54036-1H	EX19EAT,EX19NASK
	20	GG30096-001B-H	POLY BAG		
	21	GG30225-003A-H	FOAM SHEET		
	22	QPA00500705	POLY BAG	5cm x 7cm	
△	27	QMPL410-190-JS	POWER CORD	1.9m BLACK	EX19AT,EX19EAT,EX19LAT,EX19MAT,EX19NASK
△	27	QMPS550-162-JC	POWER CORD		EX19BAT
△	27	QMPL150-190-JC	POWER CORD		EX19VASK
△	27	QMPP400-190-JS	POWER CORD	1.9m BLACK	EX19SAT
	40	GG10671-002B-H	CUSHION B.LEFT		
	41	GG10671-007A-H	CUSHION B.CENTE		
	42	GG10671-003B-H	CUSHION B.RIGHT		
	43	GG10671-006A-H	CUSHION T.FRONT		
	44	GG10671-004A-H	CUSHION T.LEFT		
	45	GG10671-005A-H	CUSHION T.RIGHT		
	46	QYSPSPD5010MA	SCREW	For STAND(x4)	
	47	GG10669-001A-H	STAND BASE UNIT	Inc. POLY BAG	EX19AT,EX19BAT,EX19EAT,EX19LAT,EX19MAT,EX19SAT
	47	GG10669-001A-HK	STAND BASE UNIT	Inc. POLY BAG	EX19NASK,EX19VASK