PAGE

Service Manual

Remote Control



SU-G700PP Product Color: (S)...Silver Type

Model No. SU-G700E

Stereo Integrated Amplifier

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE =

There are special components used in this equipment which are important for safety. These parts are marked by Δ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 Safety Precautions

1.1. General Guidelines

1. IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ▲ in the Schematic Diagrams, Circuit Board Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

- 2. An Isolation Transformer should always be used during the servicing of AC Adaptor whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect AC Adaptor from being damaged by accidental shorting that may occur during servicing.
- 3. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 4. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- 5. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

(This "Safety Precaution" is applied only in U.S.A.)

- 1. Before servicing, unplug the power cord to prevent an electric shock.
- 2. When replacing parts, use only manufacturer's recommended components for safety.
- 3. Check the condition of the power cord. Replace if wear or damage is evident.
- 4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
- 5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

1.1.1. Leakage Current Cold Check

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$.

When the exposed metal does not have a return path to the chassis, the reading must be ∞

1.1.2. Leakage Current Hot Check

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a 1.5kΩ, 10 watts resistor, in parallel with a 0.15µF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1-1.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.



Figure 1-1

1.2. Before Repair and Adjustment

Disconnect Power Supply AC to discharge AC capacitor in SMPS P.C.B. and AC Inlet P.C.B. through a 10 Ω , 10 W resistor to ground.

1.2.1. SMPS P.C.B.



Caution:

Figure 1-2

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices. After repairs are completed, restore power gradually using a variac to avoid overcurrent.

- Current consumption at AC 220V 240V, should be 50/60 Hz during power on (In Standby mode) should be ~0.30W. (E)
- Current consumption at AC 120V, 60 Hz during power on (In Standby mode) should be ~0.30W. (PP)

1.3. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

• No sound is heard when the power is turned on.

• Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used. If this occurs, follow the procedure outlines below:

- 1. Turn off the power.
- 2. Determine the cause of the problem and correct it.
- 3. Turn on the power once again after one minute.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

1.4. Safety Parts Information

Safety Parts List:

There are special components used in this equipment which are important for safety.

These parts are marked by \underline{A} in the Schematic Diagrams, Exploded View & Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

Safety	Ref No.	Part No.	Part Name & Description	Remarks
⚠	20	RFKKSUG700ES	TOP CABINET ASS'Y	
⚠	38	TKFA22401A	REAR PANEL	G700E-S
⚠	38	TKFA22501A	REAR PANEL	G700PP-S
⚠	A2	K2CM3YY00041	AC CORD	G700E-S
⚠	A2	K2CS3YY00033	AC CORD	G700E-S
⚠	A2	K2CG3YY00191	AC CORD	G700PP-S
⚠	A3	TQBM0061	OI(En/Ge/Fr/It/Du)	G700E-S
⚠	A3	TQBM0062	OI(Sp/Sw/Da/Fi/Po)	G700E-S
⚠	A3	TQBM0060	OI(En/Cf)	G700PP-S
⚠	PCB4	TNPA6359AA	SMPS P.C.B	G700E-S
⚠	PCB4	TNPA6359AB	SMPS P.C.B	G700PP-S

2 Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices.

Examples of typical ES devices are IC (integrated circuits) and some field-effect transistors and semiconductor "chip" components.

The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
 CAUTION:
 - Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
- 8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

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2.2. General description about Lead Free Solder (PbF)

The lead free solder has been used in the mounting process of all electrical components on the printed circuit boards used for this equipment in considering the globally environmental conservation.

The normal solder is the alloy of tin (Sn) and lead (Pb). On the other hand, the lead free solder is the alloy mainly consists of tin (Sn), silver (Ag) and Copper (Cu), and the melting point of the lead free solder is higher approx.30 degrees C (86°F) more than that of the normal solder.

Definition of PCB Lead Free Solder being used

The letter of "PbF" is printed either foil side or components side on the PCB using the lead free solder.	
(See right figure)	PbF

Service caution for repair work using Lead Free Solder (PbF)

- The lead free solder has to be used when repairing the equipment for which the lead free solder is used.
- (Definition: The letter of "PbF" is printed on the PCB using the lead free solder.)
- To put lead free solder, it should be well molten and mixed with the original lead free solder.
- Remove the remaining lead free solder on the PCB cleanly for soldering of the new IC.
- Since the melting point of the lead free solder is higher than that of the normal lead solder, it takes the longer time to melt the lead free solder.

• Use the soldering iron (more than 70W) equipped with the temperature control after setting the temperature at 350±30 degrees C (662±86°F).

Recommended Lead Free Solder (Service Parts Route.)

• The following 3 types of lead free solder are available through the service parts route.

RFKZ03D01K-----(0.3mm 100g Reel)

RFKZ06D01K------(0.6mm 100g Reel)

RFKZ10D01K-----(1.0mm 100g Reel)

Note

* Ingredient: tin (Sn), 96.5%, silver (Ag) 3.0%, Copper (Cu) 0.5%, Cobalt (Co) / Germanium (Ge) 0.1 to 0.3%

2.3. Grounding for electrostatic breakdown prevention

• As for parts that use optical pick-up (laser diode), the optical pick-up is destroyed by the static electricity of the working environment.

Repair in the working environment that is grounded.

2.3.1. Worktable grounding

• Put a conductive material (sheet) or iron sheet on the area where the optical pickup is placed and ground the sheet.

2.3.2. Human body grounding

• Use the anti-static wrist strap to discharge the static electricity form your body Figure 2-2.



3 Service Navigation

3.1. Service Information

This service manual contains technical information which will allow service personnel's to understand and service this model. Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

• Adjustment of Meter Unit.

Refer to Section 10.1 for procedures to adjust the Meter Unit after replacement of Meter Unit and Meter Drive P.C.B..

4 Specifications

General Power supply

Power consumption Power Consumption in standby mode Dimensions (W x H x D)

Mass Operating temperature range

Operating humidity range

Amplifier section Output power

Load impedance Frequency response PHONO (MM)

LINE DIGITAL Input sensitivity/Input impedance PHONO (MM) LINE

Terminals section Headphones Jack

PC

Analogue input LINE IN × 2 PHONO (MM) Digital input OPT IN × 2 COAX IN × 2 Format support Analogue output LINE OUT PRE OUT System port System control

■ Format section USB-B USB Standard

DSD control mode

Note:

- Specifications are subject to change without notice.
- Mass and dimension are approximate.
- DSD is a trademark of Sony Corporation.

AC 220 V to 240 V, 50/60 Hz (E) AC 120 V, 60 Hz (PP) 85 W Approx. 0.3 W

 $\begin{array}{l} 430 \text{ mm } (16 \ ^{15}\!/_{16}") \times \\ 148 \text{ mm } (5 \ ^{13}\!/_{16}") \times \\ 428 \text{ mm } (16 \ ^{27}\!/_{32}") \\ \text{Approx. } 12.3 \text{ kg } (27.2 \text{ lbs}) \\ 0 \ ^\circ\text{C} \text{ to } +40 \ ^\circ\text{C} \\ (+32 \ ^\circ\text{F} \text{ to } +104 \ ^\circ\text{F}) \\ 35\% \text{ to } 80\% \text{ RH} \\ (\text{no condensation}) \end{array}$

 $\begin{array}{l} \text{70 W} + \text{70 W} (1 \text{ kHz}, \text{T.H.D. 0.5} \\ \text{\%, 8 } \Omega, \text{20 kHz LPF} \\ \text{140 W} + \text{140 W} (1 \text{ kHz}, \text{T.H.D.} \\ \text{0.5 \%, 4 } \Omega, \text{20 kHz LPF} \\ \text{4 } \Omega - \text{16 } \Omega \end{array}$

20 Hz to 20 kHz (RIAA DEVIA-TION ±1 dB, 8 Ω) 5 Hz to 80 kHz (—3 dB, 8 Ω) 5 Hz to 90 kHz (—3 dB, 8 Ω)

> 2.5 mV / 47 kΩ 200 mV / 22 kΩ

Stereo, Ø6.3 mm (¹/₄") 0.75 mW, 32 Ω REAR USB Type B Connector

> Pin jack Pin jack

Optical terminal Pin jack LPCM

> Pin jack Pin jack

Ø3.5 mm (1/8"), jack

USB 2.0 high-speed USB Audio Class 2.0, Asynchronous mode ASIO Native mode, DoP mode

5 Location of Controls and Components

5.1. Remote Control Key Button Operation



01 [AMP 也]: Standby/on button

- Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- 02 [AMP]/[NWP]/[CD]: Select the device to be operated
- 03 [>INPUT<]: Switch the input source

04 [MENU]: Enter menu

05 [SETUP]: Enter setup menu

- 06 [LAPC]: Measure the output signal of the amplifier when speakers are connected, and correct its output
- 07 [+VOL-]: Adjust the volume

• Volume range: -- (min), 1 to 100 (max)

08 [MUTE]: Mute the sound

• Press [MUTE] again to cancel. "MUTE" is also cancelled when you adjust the volume with this unit or when you turn the unit to standby.

09 [DIMMER]: Adjust the brightness of the peak power meter light, display, etc.

- When the display is turned off, it will light up for a few seconds only when you operate this unit. Before the display turns off, "Display Off" will be displayed for a few seconds.
- Press repeatedly to switch the brightness.
- Peak power meter does not work while the light is turned off.

10 [INFO]: View content information*

• Press this button to display sampling frequency and other information. (The information varies depending on the input source.)

11 [▲], [▼], [◀], [▶]/[OK]: Selection/OK*

12 [RETURN]: Return to the previous display*

*: Press [AMP] first to operate this unit. (The remote control may work for other Technics devices and may not for this unit when pressing [NWP] or [CD].)

Buttons that work for Technics devices supporting system control function

The remote control of this unit also works for Technics devices supporting system control function (Network Audio Player, Compact Disc Player, etc.). For information on the operations of the devices, please also refer to their operating instructions.

- 01 [也] Standby/on switch for the Compact Disc Player
- 02 [也] Standby/on switch for the Network Audio Player
- 03 Select the device to be operated
- 04 Select the input source of the Network Audio Player
- 05 Turn on/off Direct mode
- 06 Turn on/off Re-master
- 07 Playback control buttons
- 08 Numeric buttons, etc.
- 09 Playback control buttons

5.2. Main Unit Key Button Operation



01 Standby/on button (心/I)

 Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

02 Power indicator

- Blue: The unit is on.
- Off: The unit is in standby mode.

03 Headphones jack

- When a plug is connected, the speakers and PRE OUT terminals do not output sound.
- Sound is not output from headphones jack while "MAIN IN" is selected as input source of this unit.
- Excessive sound pressure from earphones and headphones can cause hearing loss.
- Listening at full volume for long periods may damage the user's ears.

04 Volume knob

- -- (min), 1 to 100 (max)
- To display the volume, set "VOLUME Display" to "On".

05 Display

 Information such as input source, etc. is displayed.

06 Input selector knob

 Turn this knob clockwise or anticlockwise to switch the input source.

07 Peak power meter

- Display the output level. 100 % is the rated output.
- Peak power meter does not work while the light is turned off.

08 LAPC indicator

09 Remote control signal sensor

 Reception distance: Within approx. 7 m directly in front

• Reception angle: Approx. 30° left and right

10 USB-B terminal

- For connecting to a PC, etc.
- 11 Optical digital input terminal (OPT1 IN/OPT2 IN)
- 12 UPDATE terminal (USB-A) (--- DC 5 V 500 mA)
- 13 Coaxial digital input terminals (COAX1 IN/COAX2 IN)
- 14 System terminal (CONTROL)

15 Speaker output terminals

16 PHONO EARTH terminal

• For connecting the ground wire of a turntable.

17 Analogue audio input terminals (PHONO) • MM cartridges are supported.

18 Analogue audio input terminals (LINE2 IN/MAIN IN) These input terminals are combined with LINE2 and MAIN IN. Switch the function

according to the connected equipment.

19 Analogue audio input terminals (LINE1 IN)

- 20 Analogue audio output terminals (LINE OUT)
- 21 Analogue audio output terminals (PRE OUT)
- The model number is indicated.
- 23 AC IN terminal (~)

6 Service Mode

6.1. Doctor Mode

Normal Operation

Step 1 Disconnect AC.

Step 2 Power switch (Main Unit) in OFF condition.

Step 3 Connect AC.

Step 4 Press and hold the [AMP] button on remote control.

Step 5 Power on the Main Unit while holding the [AMP] button on remote control.

Step 6 Adjust the volume knob from around center to minimum while holding the [AMP] on remote control.

The indication of Doctor Mode is:

- OLED shows the icon of "Doctor Mode" with flashing (1Hz) continously.



6.1.1. Doctor Mode Table 1

Item		OLED Display	Key Operation
Mode Name	Description		,
Model Name and Region Check	To check model name and region	SU-G700 E	Step 1 Enter into Doctor Mode. Step 2 Press one time [AMP] button on remote control.
		Select Knob on main unit to normal display (maintain Doctor Mode)	on remote control.
Main Version Check	To check main firmware version	Main:6ME 001 ^{■07} "001" / "0001" means each version number. Select Knob on main unit to normal display (maintain Doctor Mode)	Step 1 Enter into Doctor Mode. Step 2 Press two time [AMP] button on remote control. To exit, power off on remote control.
Display Check	To check the display version	Disp:6MF 001 ^{■07} "001" / "0001" means each version number. Select Knob on main unit to normal display (maintain Doctor Mode)	Step 1 Enter into Doctor Mode. Step 2 Press three time [AMP] button on remote control. To exit, power off on remote control.
USB DAC Check	To check USB DAC firmware version	USB-DAC:0001 [©] "001" / "0001" means each version number. Select Knob on main unit to normal display (maintain Doctor Mode)	Step 1 Enter into Doctor Mode. Step 2 Press four time [AMP] button on remote control. To exit, power off on remote control.
Font Check	To check font verify confirmation	Font:XXXXXXX (Check sum [lower 7 characters of 4 Byte]) for the font area in EEPROM). - The check sum will be included in every official F/W release. - It will take several seconds before display of the check sum result Select Knob on main unit to normal display (maintain Doctor Mode)	Step 1 Enter into Doctor Mode. Step 2 Press five time [AMP] button on remote control. To exit, power off on remote control.

6.1.2. Doctor Mode Table 2

lte	em		OLED	Display			Key Operation
Mode Name	Description	After finish the confirmation	on of firmura				Ctor 1 Enter inte
Kev Check	main set kev	starts the all main set key	check	re version or	FONT, next	[AIVIP] Key	Doctor Mode
ney oncon	button and		CHOOK				Step 2 Press six
	switch	(6th [AMP] press) Main se	et key check	ζ.			time [AMP]
			PV+VCV-S	S+ S-			button on remote control.
		ĸ	Key		OLED		
		Power Switch press	,		P		
		Volume knob around ma	aximum	(Vol:100)	V+		
		Volume knob around me	edium	(Vol:45-55)	VC		
		Volume knob around mi	nimum	(Vol:0)	V-		
		Detect the clockwise of	selector knc	b	S+		
		Detect the counterclocky	wise of sele	ctor knob	S-		
		Press [AMP] key to skip k confirmation.	ey check. G	So to the next	LED and OL	.ED	To exit, power off on remote control.
All LED and	To confirm	After success the key che	ck, key star	ts the all LAF	C LED and	OLED	Step 1 Enter into
OLED	LED and	confirmation					Doctor Mode.
Confirmation	OLED						Step 2 Press
		(7th [AMP] press) LED an		mmauon			button on remote
		Key Check End					control.
		[[AMP]		[A	MP] / 16× 16	dot	
			>		\rightarrow		
			/	16dot			
				▲ ▲			
			16	[A idot	MP]		
		STEP		OLED	LAPC	LED	
		Key Check End	ALL O	N			
		or					
		if skip Key Check by					
		press 7th [AMP] Key				N	
		Next [AMP]			0		
			Grid Pa	attern (Pover	(bos		
			diagon		seu)		
							To exit, power off
Dimension	Talahar	Select Knob on main unit	to normal d	isplay (maint	ain Doctor M		on remote control.
Dimmer	the level of	You can change the level	of brightnes	ss by pressin	g the [DIMME	=K] on	Doctor Mode
OHECK	brightness	remote. This spec is same	as numidi	moue.			Step 2 Press
		Standard -> Dimmer level	1 -> Dimme	er level 2 -> [Display Off ->	Standard	[DIMMER] button
		Standard: OLED brig	htness is St	andard			on remote control.
		Dimmer level 1: OLE	D brightnes	s is Level 1			
		Dimmer level 2: OLE	D brightnes:	s is Level 2			
			UII				
		Part of DIMMER	Standard	Level1	Level2	Off	
		OLED Backlight to Pock Dower Motor	Standard	Dimmer Level1	Dimmer Level2	Display Off	
		Power LED	Standard	Dimmer	Off ※	Off 💥	
		LACP LED	Standard	Dimmer	Off 💥	Off 💥	
		* Please be careful becau Mode are not same as th	se these rea	sults by DIMI al DIMMER o	MER operatic peration.	on in Doctor	To exit, power off on remote control.
	I						1

Ite Mode Name	em Description	OLED Display	Key Operation
Volume Maximum, Volume Minimum		[INPUT+] key, it setup the Volume Maximum. [INPUT-] key, it setup the Volume Medium. During this test, it does not work the volume knob on main unit. Vol Max	Step 1 Enter into Doctor Mode. Step 2 Press [INPUT+] button or [INPUT-] button on remote control.
		Select Knob on main unit to normal display (maintain Doctor Mode)	To exit, power off on remote control.
System Combination Check	To check the system combination	Before start this test, please connect the SU-G700 to ST-C700D/ST-C700 with Control cable. When press [NWP] key on remote control, it starts communicate with SU-G700 and ST-C700D/ST-C700 for System Combination function. NWP Tx Rx NWP Tx : Send the command to NWP NWP Rx : Send the command to NWP : Checking Rx : Success Blank : Fail Select Knob on main unit to normal display (maintain Doctor Mode)	Step 1 Enter into Doctor Mode. Step 2 Press [NWP] button on remote control. To exit, power off on remote control.
Shipment Mode	To initialize all of the information	 Switch off main unit during Doctor Mode => exit Doctor Mode and it initialize as shipment. (recommend) Power off by remote control during Doctor Mode => exit Doctor Mode and it initialize as shipment AC Off => exit Doctor Mode and all memory in EEPROM should be initialized (include Error code history and Accumulation time) 	Step 1 Enter into Doctor Mode. To exit, power off on main unit.

6.2. Error Code Table

- When any abnormal state occurs, there are some error indication with LED displayed.
- This feature implemented in the model in order to help in indentifying and troubleshooting abnormal conditions.

Ite	em		Koy Operation
Mode Name	Description	OLED Display	Key Operation
Error Code F76	Current Abnormality	F76 Output in Log: F76	To exit, power off on remote control.
Error Code F61	1) Short Speaker 2) AMP Error	F61 Dr. Output in Log: F61	To exit, power off on remote control.
Error Code F70	DSP Error		
		F70(DSP) Output in Log: F70(DSP)	
	DAP Error		
		Output in Log: F70(DAP)	
	USB Error		
		F70(USBDAC)	
	EEPROM Error		
		F70(EEPROM)	
		Output in Log: F70(EEPROM) *F70(EEPROM) only show during Doctor Mode.	To exit, power off on remote control.
Error Code F78	VirtualBatt Error	F78(V-Batt) Output in Log: F78(VirtualBatt)	To exit, power off on remote control.

7 Troubleshooting Guide

7.1. Check the problem is reproduced



7.2. No power







7.3. Automatically shutdown during operation



7.4. No Display



7.5. Power Indicator - Not Light



7.6. Meter Illumination - No Light



7.7. No Remote Control Operation



7.8. Can not control Volume +/-



7.9. Can not control Input Selection



7.10. No SUB Function (Firmware UPDATE terminal)



7.11. No Sound input from PC (USB-B), COAX IN or OPT IN



7.12. No Sound from Speaker Unit



7.13. No Sound from Headphone



7.14. No Sound from LINE OUT Terminal



7.15. No Meter Operation



7.16. No System Control (Control Terminal)



7.17. No Audio Output from PRE OUT terminal



7.18. No LAPC Function



7.19. Pin function of each connectors



7.20. Function and Possible failure PCB or Module

This is a table for shown the possible failure PCB or Module for each function.

Item No.	Function	Possible failure PCB or Module
1	LINE IN 1/2, PHONO	Main
2	COAX1/2, OPT1/2	Main / Digital
3	PC (USB-B)	Main / Digital
4	LINE OUT	Main / REC Out
5	PRE OUT	Main / AMP
6	LAPC	Main / AMP
7	Display (OLED)	Main / OLED
8	VOL	Main / OLED / Volume
9	Selector	Main / OLED / Selector
10	Speaker Out	Main / AMP
11	HeadPhone Out	Main / AMP
12	IR	Main / Meter
13	Meter	Main / Meter
14	Meter Illumination	Main / Meter / Meter Illumi LED R , L
15	Controller	Main / Digital / Control
16	Firm up data	Main / Digital / Control

8 Disassembly and Assembly Instructions

- This section describes the disassembly and/or assembly procedures for all major printed circuit boards & main components for the unit. (You may refer to the section of "Main components and P.C.B. Locations" as described in this service manual)
- Before carrying out the disassembly process, please ensure all the safety precautions & procedures are followed.
- During the disassembly and/or assembly process, please handle with care as there may be chassis components with sharp edges.
- Avoid touching heatsinks due to its high temperature after prolong use.
- Be sure to use proper service tools, equipments or jigs during repair.
- Select items from the following indexes when disassembly or replacement are required.
- Disassembly of Top Cabinet Ass'y
- Disassembly of SMPS P.C.B.
- Disassembly of AMP P.C.B.
- Disassembly of Speaker L P.C.B. and Speaker R P.C.B.
- Disassembly of Control P.C.B.
- Disassembly of Digital P.C.B.
- Disassembly of REC Out P.C.B.
- Disassembly of Main P.C.B.
- Disassembly of Front Panel Unit
- Disassembly of Selector P.C.B.
- Disassembly of Volume P.C.B.
- Disassembly of Main SW P.C.B.
- Disassembly of OLED P.C.B.
- Disassembly of Shade Sheet B
- Disassembly of Headphone P.C.B.
- Disassembly of Meter Illumi LED L P.C.B. and Meter Illumi LED R P.C.B.
- Disassembly of Meter P.C.B.
- Disassembly of Meter Unit

8.1. Type of Screws

CAUTION NOTE: Please use original screw and at correct locations.

Below shown is part no. of different screw types used:

- a :RHD30119-K
- b :THEC283N h :XYN3+F5FN
- C :RHD30111-31
- d :XYN3+C8FJK
- e :RHDC0023
- f :XYM4+F8FJ
- k :RHD26045-L

1 :XSB3+8FN

(g):XYN3+F5FJK

RHD26016-1L

8.2. Disassembly Flow Chart



8.3. Main Components and P.C.B. Locations



8.4. Disassembly of Top Cabinet 8.5. Ass'y • Refer

Step 1 Remove 8 screws.



Step 2 Remove 4 screws.



Step 3 Lift up to remove Top Cabinet Ass'y.



8.5. Disassembly of SMPS P.C.B.

• Refer to "Disassembly of Top Cabinet Ass'y".

Step 1 Remove 13 screws. Step 2 Remove SMPS Top Shield.



Step 3 Detach 23P Bridge Connector at the connector (P6001) on AMP P.C.B..

Step 4 Remove 6 screws.





Step 7 Slightly release the side of the rear panel.Step 8 Release 2 spacers.Step 9 Remove SMPS P.C.B..



8.6. Disassembly of AMP P.C.B.

• Refer to "Disassembly of Top Cabinet Ass'y".

Step 1 Remove 2 screws.



Step 2 Remove 9 screws. Step 3 Remove 3 screws. Step 4 Remove 4 screws.



Step 5 Detach 30P FFC at the connector (P6502) on AMP P.C.B..

Step 6 Detach 40P FFC at the connector (P6503) on AMP P.C.B..

Step 7 Detach 23P Bridge Connector at the connector (P6001) on AMP P.C.B..

Step 8 Detach 7P Cable at the connector (P6801) on AMP P.C.B..

Step 9 Remove AMP P.C.B..



8.7. Disassembly of Speaker L P.C.B. and Speaker R P.C.B.

• Refer to "Disassembly of Top Cabinet Ass'y".

Note:

The disassembling procedure for Speaker L P.C.B. will be described here.

For Speaker R P.C.B., please refer to the same prodecure described here.

Step 1 Remove 1 screw.



Step 2 Remove 2 screws. Step 3 Remove 2 nuts. Step 4 Remove Speaker L P.C.B..



8.8. Disassembly of Control P.C.B.

• Refer to "Disassembly of Top Cabinet Ass'y".

Step 1 Remove 1 screw. **Step 2** Remove 1 screw.



Step 3 Detach 8P Cable at the connector (P8601) on Control P.C.B..

Step 4 Remove Control P.C.B..



8.9. Disassembly of Digital P.C.B.

• Refer to "Disassembly of Top Cabinet Ass'y".

Step 1 Remove 2 screws. **Step 2** Remove 4 screws.



Step 3 Remove 2 screws.

Step 4 Detach 8P Cable at the connector (P9502) on Digital P.C.B..

Step 5 Detach 30P FFC at the connector (P9503) on Digital P.C.B..

Step 6 Detach 15P FFC at the connector (P4001) on Digital P.C.B..

Step 7 Remove Digital P.C.B..



8.10. Disassembly of REC Out P.C.B.

Refer to "Disassembly of Top Cabinet Ass'y".

• Refer to "Disassembly of Digital P.C.B.".

Step 1 Remove 1 screw. **Step 2** Remove 2 screws.



Step 3 Detach 4P Cable at the connector (P2801) on REC Out P.C.B..

Step 4 Remove REC Out P.C.B..



8.11. Disassembly of Main P.C.B.

- Refer to "Disassembly of Top Cabinet Ass'y".
- Refer to "Disassembly of Digital P.C.B.".

Step 1 Remove 6 screws.



Step 2 Remove 5 screws.

Step 3 Remove 2 screws.

Step 4 Detach 30P FFC at the connector (P4551) on Main P.C.B..

Step 5 Detach 40P FFC at the connector (P4552) on Main P.C.B..

Step 6 Detach 14P FFC at the connector (P7003) on Main P.C.B..

Step 7 Detach 30P FFC at the connector (P7005) on Main P.C.B..

Step 8 Detach 4P Cable at the connector (P2001) on Main P.C.B..

Step 9 Remove Main P.C.B..



8.12. Disassembly of Front Panel Unit

• Refer to "Disassembly of Top Cabinet Ass'y".

Step 1 Remove 4 screws.



Step 2 Remove 1 screw.

Step 3 Detach 30P FFC at the connector (P7005) on Main P.C.B..

Step 4 Detach 14P FFC at the connector (P7003) on Main P.C.B..

Step 5 Detach 7P Cable at the connector (P6801) on AMP P.C.B..

Step 6 Remove Front Panel Unit.



8.13. Disassembly of Selector P.C.B.

- Refer to "Disassembly of Top Cabinet Ass'y".
- Refer to "Disassembly of Front Panel Unit".

Step 1 Detach Selector Knob Unit.



elector Knob Ur (Step 1)

Step 2 Desolder the pins of Selector P.C.B..

Step 3 Detach 6P FFC at the connector (P8301) on Selector P.C.B..

Step 4 Remove Selector P.C.B..



8.14. Disassembly of Volume P.C.B.

• Refer to "Disassembly of Top Cabinet Ass'y".

• Refer to "Disassembly of Front Panel Unit".

Step 1 Remove 1 screw.Step 2 Detach Volume Knob Unit.Step 3 Remove nut.



Step 4 Detach 8P Cable at the connector (P8005) on OLED P.C.B..

Step 5 Remove Volume P.C.B..



8.15. Disassembly of Main SW P.C.B. 8.17. Disassembly of Shade Sheet B

- Refer to "Disassembly of Top Cabinet Ass'y".
- Refer to "Disassembly of Front Panel Unit".

Step 1 Remove 3 screws.

Step 2 Detach 7P FFC at the connector (P8401) on Main SW P.C.B..

Step 3 Remove Main SW P.C.B..



(Step 3)

8.16. Disassembly of OLED P.C.B.

• Refer to "Disassembly of Top Cabinet Ass'y".

• Refer to "Disassembly of Front Panel Unit".

Step 1 Remove 4 screws.

Step 2 Detach 6P FFC at the connector (P8004) on OLED P.C.B..

Step 3 Detach 8P Cable at the connector (P8005) on OLED P.C.B..

Step 4 Detach 7P FFC at the connector (P8003) on OLED P.C.B..

Step 5 Remove OLED P.C.B..



- Refer to "Disassembly of Top Cabinet Ass'y".
- Refer to "Disassembly of Front Panel Unit".

Step 1 Remove 3 screws. Step 2 Remove Shade Sheet B.



8.18. Disassembly Headphone of P.C.B.

- Refer to "Disassembly of Top Cabinet Ass'y".
- Refer to "Disassembly of Front Panel Unit".
- Refer to "Disassembly of Shade Sheet B".

Step 1 Remove 1 screw.

Step 2 Detach 2P Cable at the connector (P2902) on Headphone P.C.B.,

Step 3 Remove Headphone P.C.B..



8.19. Disassembly of Meter Illumi LED L P.C.B. and Meter Illumi LED R P.C.B.

- Refer to "Disassembly of Top Cabinet Ass'y".
- Refer to "Disassembly of Front Panel Unit".
- Refer to "Disassembly of Shade Sheet B".

Step 1 Remove 3 screws.

Step 2 Detach 6P Wire at the connector (P8901) on Meter Illumi LED L P.C.B..

Step 3 Remove Meter Illumi LED L P.C.B. and Meter Illumi LED R P.C.B..



8.20. Disassembly of Meter P.C.B.

- Refer to "Disassembly of Top Cabinet Ass'y".
- Refer to "Disassembly of Front Panel Unit".
- Refer to "Disassembly of Shade Sheet B".

Step 1 Detach 6P Cable at the connector (P8901) on Meter Illumi LED L P.C.B..

Step 2 Remove 2 screws.

Step 3 Desolder the pins of Meter P.C.B.. **Step 4** Remove Meter P.C.B..



8.21. Disassembly of Meter Unit

- Refer to "Disassembly of Top Cabinet Ass'y".
- Refer to "Disassembly of Front Panel Unit".
- Refer to "Disassembly of Shade Sheet B".
- Refer to "Disassembly of Meter Illumi LED L P.C.B. and Meter Illumi LED R P.C.B.".
- Refer to "Disassembly of Meter P.C.B.".

Step 1 Remove 4 screws. **Step 2** Remove Shade Sheet A.



Step 3 Remove 4 screws. **Step 4** Remove Meter Unit.



Meter Unit (Step 4)

9 Service Position

Note: For description of the disassembly procedures, see the Section 8.

9.1. Checking and Repairing of SMPS P.C.B., AMP P.C.B., Main P.C.B., Control P.C.B., Digital P.C.B. and REC Out P.C.B.

Step 1 Remove Top Cabinet Ass'y. Step 2 Remove Front Panel Unit. Step 3 Remove SMPS P.C.B.. Step 4 Remove AMP P.C.B.. Step 5 Remove Main P.C.B.. Step 6 Remove Control P.C.B.. Step 7 Remove Digital P.C.B.. Step 8 Remove REC Out P.C.B.. Step 9 Place SMPS P.C.B., AMP P.C.B., Main P.C.B., Control P.C.B., Digital P.C.B. and REC Out P.C.B. on the insulated material. Step 10 Attach 23P Bridge Connector at the connector (P6001) on AMP P.C.B.. Step 11 Attach 7P Cable at the connector (P6801) on AMP P.C.B.. Step 12 Attach 4P Cable at the connector (P2801) on REC Out P.C.B.. Step 13 Attach 8P Cable at the connector (P8601) on Control P.C.B.. Step 14 Attach 15P FFC at the connector (P4553) on Main P.C.B.. Step 15 Attach 30P FFC at the connector (P3003) on Main P.C.B.. Step 16 Attach 30P FFC at the connector (P7005) on Main P.C.B.. Step 17 Attach 14P FFC at the connector (P7003) on Main P.C.B..

Step 18 Attach 40P FFC at the connector (P4552) on Main P.C.B..

Step 19 Attach 30P FFC at the connector (P4551) on Main P.C.B..

Step 20 SMPS P.C.B., AMP P.C.B., Main P.C.B., Control P.C.B., Digital P.C.B. and REC Out P.C.B. can be checked as diagram shown.



10 Measurement and Adjustment

10.1. Adjustment of the Peak Power Meter

Subject

After replacement of METER UNIT or AMP PCB, meter adjustment is required.

Connection

Connect CD Player or Audio device to COAX1 IN terminal to play Audio Test Disc or USB Memory with Audio Test sound.



Test sound preparation:

Following test sound is required. Download it and make CD test disc or store the USB Memory.

a. MP3 file for 1 kHz sine wave 2 Vrms (0dB)

Go into Meter Adjustment mode:

- Step 1. Turn the unit off and disconnect the AC mains lead from wall outlet. Reconnect the AC mains lead.
- Step 2. Press "AMP" button on the remote control and keep pressing until step 4. And then turn the unit on by pressing "Standby/on" button on the unit.
- Step 3. Rotate Volume knob from center to minimum (anticlockwise) position. (Pressing "AMP" button on the remote control continuously.)
- Step 4. Release the pressing "AMP" button on the remote control. Press "LAPC" button on the remote control.
- Step 5. The unit goes into Meter Adjustment mode. "Adjustment" is indicated at Display.



Exit from Meter Adjustment mode to Normal operation:

Press power button for AMP on the remote control or press "Standby/on" button to turn the unit off.

Play 2Vrms (0dB) of 1 kHz sine wave from CD player or Audio device.

Adjustment procedure:

Step 1. Adjustment of 2Vrms (0dB) Level



Step 2. Exit from Meter Adjustment mode by turn the unit off.

11 Block Diagram



12 Wiring Connection Diagram



NOTE: " * " REF IS FOR INDICATION ONLY.

SU-G700E/PP WIRING CONNECTION DIAGRAM

13 Exploded View and Replacement Parts List

13.1. Cabinet Parts Location 1





SU-G700 CABINET DRAWING







Important Safety Notice

Components identified by $\underline{\Lambda}$ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- All parts mentioned are supplied by PAVCJM unless indicated likewise.
- Reference for O/I book languages are as follows:

Ar:	Arabic	Du:	Dutch	lt:	Italian	Sp:	Spanish
Cf:	Canadian French	En:	English	Ko:	Korean	Sw:	Swedish
Cz:	Czech	Fr:	French	Po:	Polish	Co:	Traditional Chinese
Da:	Danish	Ge:	German	Ru:	Russian	Cn:	Simplified Chinese
Pe:	Persian	Ur:	Ukraine	Pr:	Portuguese	Fi:	Finnish

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	K4AA01J00005	SPEAKER TERMI- NAL WHITE	2	
	2	K4AA01J00006	SPEAKER TERMI- NAL RED	2	
	3	REE2127	30P FFC (MAIN- AMP)	1	
	4	REE2128	40P FFC (MAIN- AMP)	1	
	5	REX1784	4P WIRE (METER ILLUMI LED R- METER ILLUMI LED L)	1	
	6	REX1897	2P WIRE (HEAD- PHONE-SMPS)	1	
	7	TXJ001AJ6E	7P FFC (OLED- MAIN SW)	1	
	8	TXJ002AJ6E	30P FFC (MAIN- OLED)	1	
	9	TXJ003AJ6E	14P FFC (MAIN- METER)	1	
	10	TXJ006AJ6E	30P FFC (MAIN- DIGITAL)	1	
	11	TXJ007AJ6E	15P FFC (MAIN- DIGITAL)	1	
	12	TXJ008AJ6E	6P FFC (OLED- SELECTOR)	1	
	13	TXJ009AJ6E	8P WIRE (CON- TROL-DIGITAL)	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	14	TXJ010AJ6E	6P WIRE (METER ILLUMI LED R- METER ILLUMI LED L)	1	
	15	TXJ012AJ6E	1P WIRE RED (SPEAKER-AMP)	2	
	16	TXJ013AJ6E	1P WIRE BLACK (SPEAKER-AMP)	2	
	17	TXJ014AJ6E	4P WIRE (MAIN- REC OUT)	1	
	18	TXJ015AJ6E	7P WIRE (HEAD- PHONE-AMP)	1	
Δ	20	RFKKSUG700ES	TOP CABINET ASS'Y	1	
	21	RFKZSUG700ES	OLED ASS'Y	1	
	22	RFKNSUG700ES	METER UNIT ASS'Y	1	
	23	RFKGSUG700ES	FRONT PANEL ASS'Y	1	
	24	RGL0812-Q	LPD LIGHT GUIDE	1	
	25	RGL0814-Q	LIGHT GUIDE	1	
	26	RGW0452A-S	SELECTOR KNOB UNIT	1	
	27	RHN90001-1	NUT	2	
	28	RMA2534	CONDUCTION TER- MINAL	4	
	29	RMN1082	PCB SUPPORT	5	
	33	RMR2182-K	SPEAKER TERMI- NAL HOLDER	2	
	34	RMX0536	LPD SHEET	1	
	36	TBXA60901	VOLUME KNOB	1	
	37	THNA037J	NUT	4	
⚠	38	TKFA22401A	REAR PANEL	1	G700E-S

Safety	Ref.	Part No.	Part Name &	Qty	Remarks
	No.		Description		
⚠	38	TKFA22501A	REAR PANEL	1	G700PP- S
	40	TKPB68101	METER WINDOW	1	
	42	TMM23417	PCB SUPPORT	2	
	43	TMWX0891	TERMINAL HOLDER	1	
	44	TMWX0901	MAIN PCB SUPPORT	1	
	45	RMA2255-J	GND ANGLE	3	
	46	TMXX0921	SHADE SHEET A	1	
	47	TMXX0931	SHADE SHEET B	1	
	48	TYL0018	GRILLE METER ASS'Y	1	
	49	TYL0019	GRILLE LEFT ASS'Y	1	
	50	XWE8G16FJ	WASHER	4	
	51	RHD26016-1L	SCREW	1	
	52	RHD26045-L	SCREW	21	
	53	RHD26046-L	SCREW	5	
	54	RHD30070	SCREW	1	
	55	RHD30111-31	SCREW	71	
	56	RHD30119-K	SCREW	36	
	57	RHDC0023	SCREW	5	
	58	RHDX30005-J	SCREW	4	
	59	THEC283N	SCREW	4	
	60	XSB3+8FN	SCREW	22	
	61	XTB3+8JFJ	SCREW	1	
	62	XTB4+12JTFJK	SCREW	4	
	63	XXE4D8F.TK	SCREW	1	
	64	VVMA POPT	SCREW	-	
	65	XIMITFOFU	SCREW	7	
	65	XING+COFUR	SCREW	2	
	67	XINSTF SFOR	SCREW	2	
	60		OD WIDE (OLED	1	
	60	TRUCTING OF	VOLUME)	1	
	69	TEEX5017-1	ING SHEET	1	
			DACKING MATERI-		
			ALS		
	P1	TPCD69301A	PACKING CASE	1	
	P3	TPEH865	MIRAMAT SHEET	1	
	P2	TPH0035	POLYFOAM	1	
			ACCESSORIES		
	21	N203V3000142	REMOTE CONTROL	1	
A	A1 A2	K2CM3VV00041	AC CORD	1	G7008-C
<u> </u>	3.2	K2CH31100041	AC CORD	-	G700E-5
	H2	K2CS31100033	AC CORD	1	GIUUE-S
	A2	K2CG3YY00191	AC CORD	1	G700PP- S
Δ	A3	TQBM0061	OI(En/Ge/Fr/It/ Du)	1	G700E-S
	A3	TQBM0062	OI(Sp/Sw/Da/Fi/ Po)	1	G700E-S
Δ	A3	TQBM0060	OI (En/Cf)	1	G700PP- S

Important Safety Notice

Components identified by $\underline{\Lambda}$ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- Capacitor value are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF), F=Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1000 (OHM).
- · All parts mentioned are supplied by PAVCJM unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by JAPAN.

E.S.D. standards for Electrostatically Sensitive Devices, refer to "PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATIC SENSITIVE (ES) DEVICES" section.

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIRCUIT BOARDS		
	PCB1	TNPA6368AA	MAIN P.C.B	1	G700E-S
	PCB1	TNPA6368AB	MAIN P.C.B	1	G700PP- S
	PCB2	TNPA6336	DIGITAL P.C.B	1	
	PCB3	TNPA6335	AMP P.C.B	1	
⚠	PCB4	TNPA6359AA	SMPS P.C.B	1	G700E-S
Δ	PCB4	TNPA6359AB	SMPS P.C.B	1	G700PP- S
	PCB5	TNPA6364	REC OUT P.C.B	1	1

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	PCB6	TNPA6361	CONTROL P.C.B	1	
	PCB7	TNPA6366	METER P.C.B	1	
	PCB8	TNPA6337	METER ILLUMI LED L P.C.B	1	
	PCB9	TNPA6338	METER ILLUMI LED R P.C.B	1	
	PCB10	TNPA6367	VOLUME P.C.B	1	
	PCB11	TNPA6365	SELECTOR P.C.B	1	
	PCB12	TNPA6339	OLED P.C.B	1	
	PCB13	TNPA6340	MAIN SW P.C.B	1	
	PCB14	TNPA6360	HEADPHONE P.C.B	1	
	PCB15	TNPA6362	SPEAKER L P.C.B	1	
	PCB16	TNPA6363	SPEAKER R P.C.B	1	

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