

RECEIVER

R-S700

SERVICE MANUAL

IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel.

It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components, and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that any service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and part replacement. Recheck all work before you apply power to the unit.

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This Service Manual uses recycled paper.



■ TO SERVICE PERSONNEL

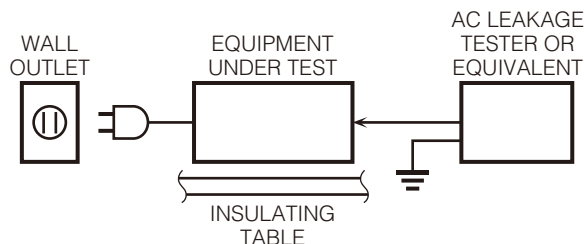
1. Critical Components Information

Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.

2. Leakage Current Measurement (For 120V Models Only)

When service has been completed, it is imperative to verify that all exposed conductive surfaces are properly insulated from supply circuits.

- Meter impedance should be equivalent to 1500 ohms shunted by 0.15 μ F.



- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.



For U model “CAUTION”

“F1: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 8A, 125V FUSE.”

For C model CAUTION

F1: REPLACE WITH SAME TYPE 8A, 125V FUSE.

ATTENTION

F1: UTILISER UN FUSIBLE DE RECHANGE DE MÊME TYPE DE 8A, 125V.

WARNING: CHEMICAL CONTENT NOTICE!

This product contains chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHATSOEVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

About lead free solder

All of the P.C.B.s installed in this unit and solder joints are soldered using the lead free solder.

Among some types of lead free solder currently available, it is recommended to use one of the following types for the repair work.

- Sn + Ag + Cu (tin + silver + copper)
- Sn + Cu (tin + copper)
- Sn + Zn + Bi (tin + zinc + bismuth)

Caution:

As the melting point temperature of the lead free solder is about 30°C to 40°C (50°F to 70°F) higher than that of the lead solder, be sure to use a soldering iron suitable to each solder.

WARNING: Lithium batteries

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

WARNING: Lithium batteries are dangerous because they can be exploded by improper handling. Observe the following precautions when handling or replacing lithium batteries.

- Leave lithium battery replacement to qualified service personnel.
- Always replace with batteries of the same type.
- When installing on the PC board by soldering, solder using the connection terminals provided on the battery cells. Never solder directly to the cells. Perform the soldering as quickly as possible.
- Never reverse the battery polarities when installing.
- Do not short the batteries.
- Do not attempt to recharge these batteries.
- Do not disassemble the batteries.
- Never heat batteries or throw them into fire.

ADVARSEL!

Lithiumbatteri –Eksplodingsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

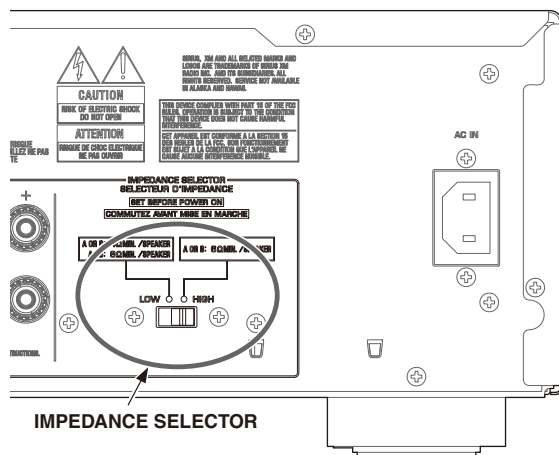
VARNING

Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikan-
tens instruktion.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

■ IMPEDANCE SELECTOR

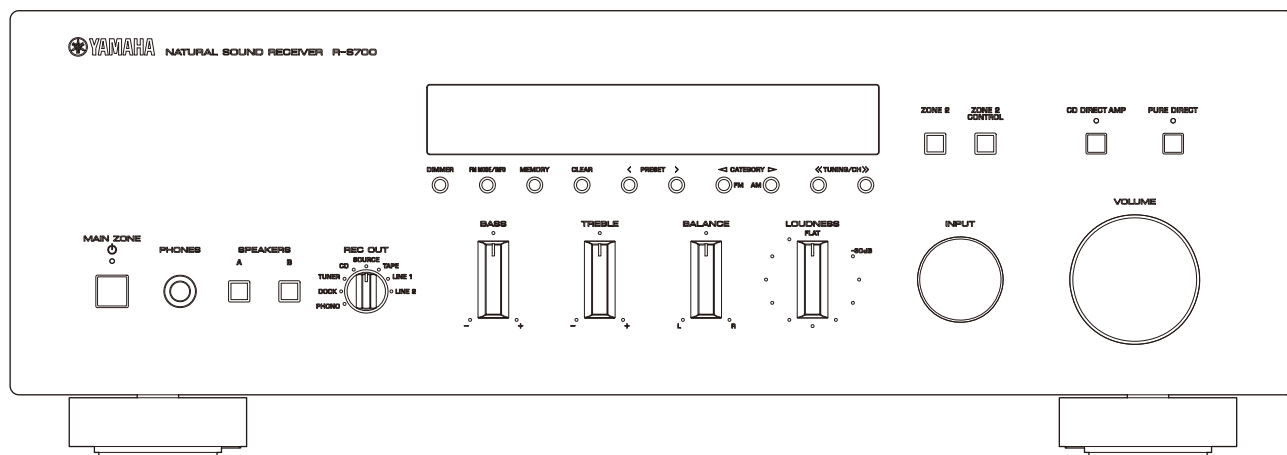


WARNING:

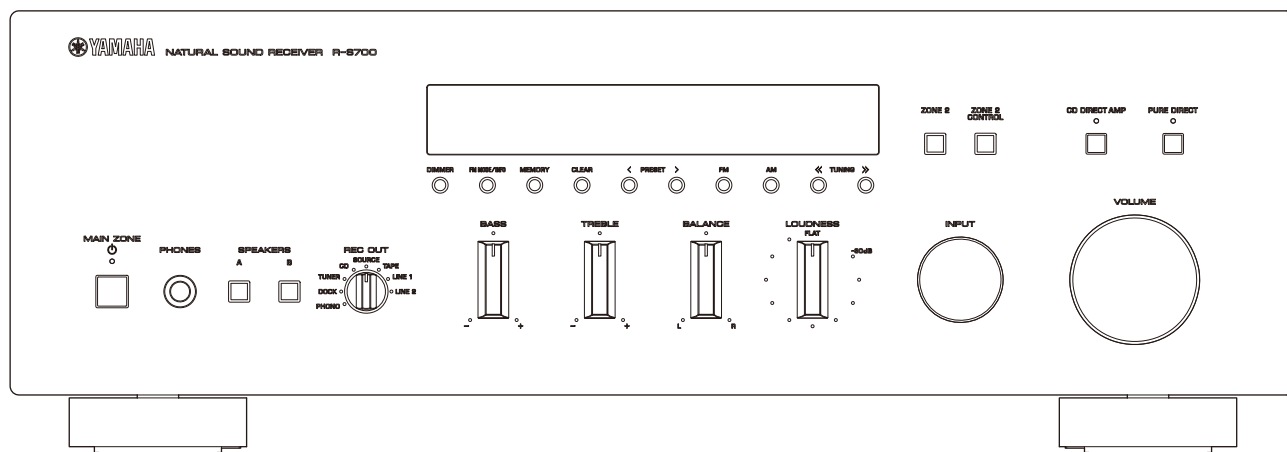
Do not change the setting of the IMPEDANCE SELECTOR switch when the unit power is switched on, as doing so may damage the unit.

FRONT PANELS

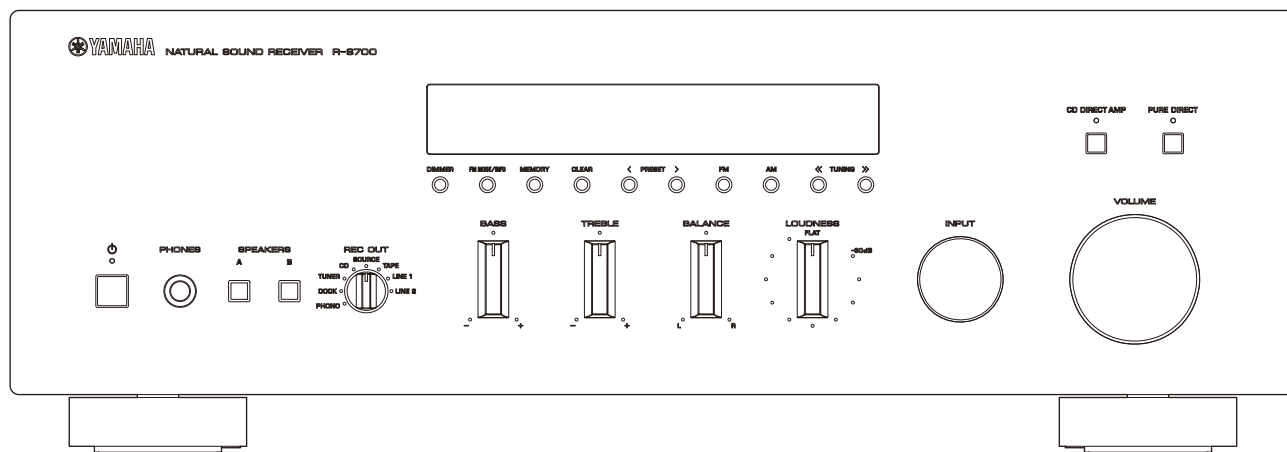
R-S700 (U model)



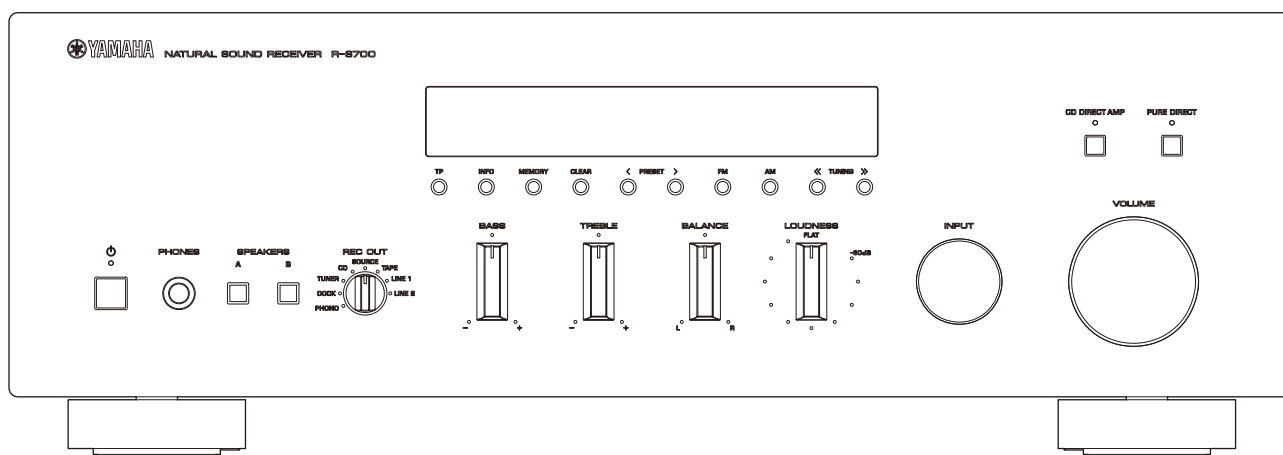
R-S700 (C, A models)



R-S700 (R model)

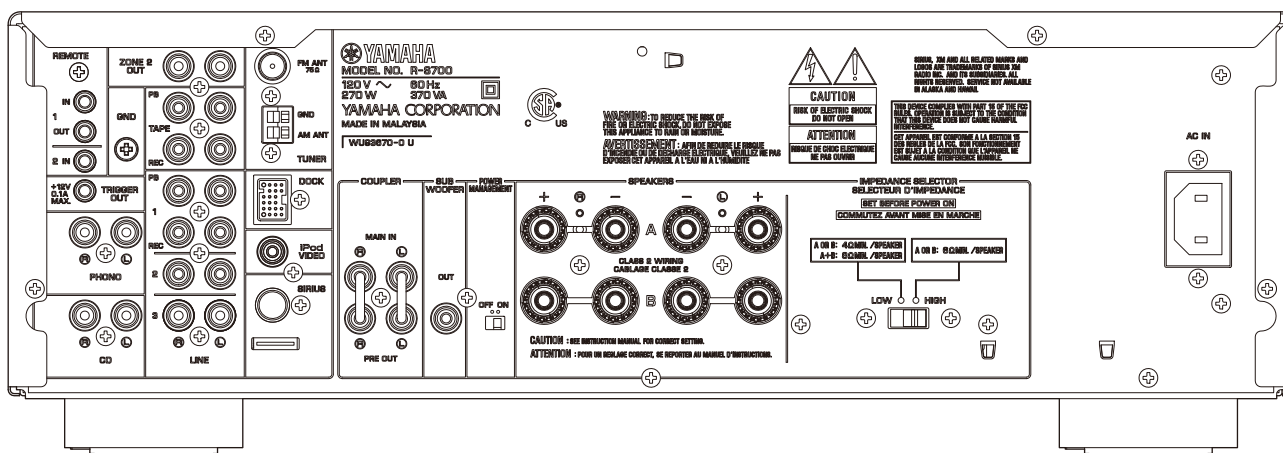


R-S700 (G model)

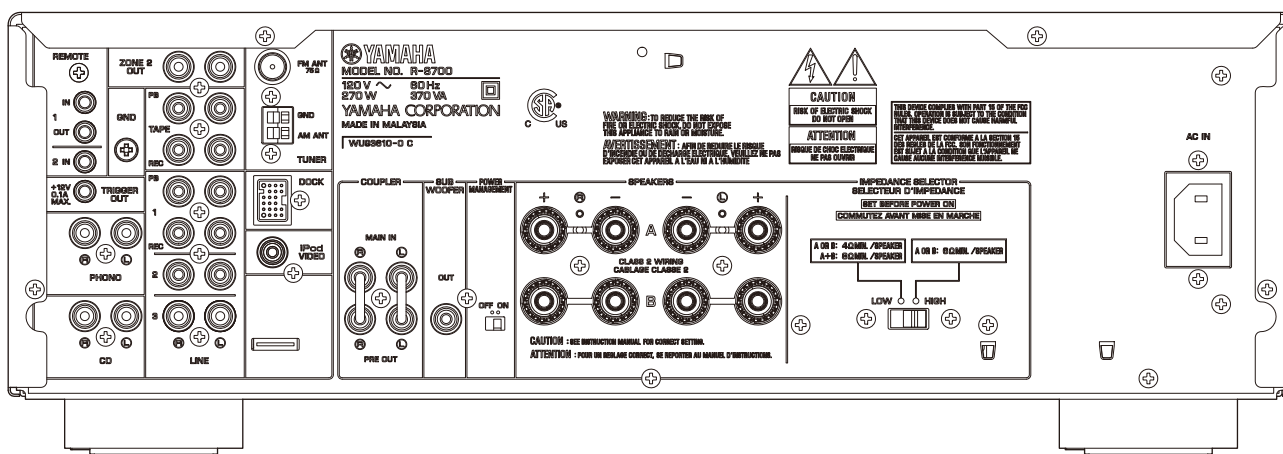


REAR PANELS

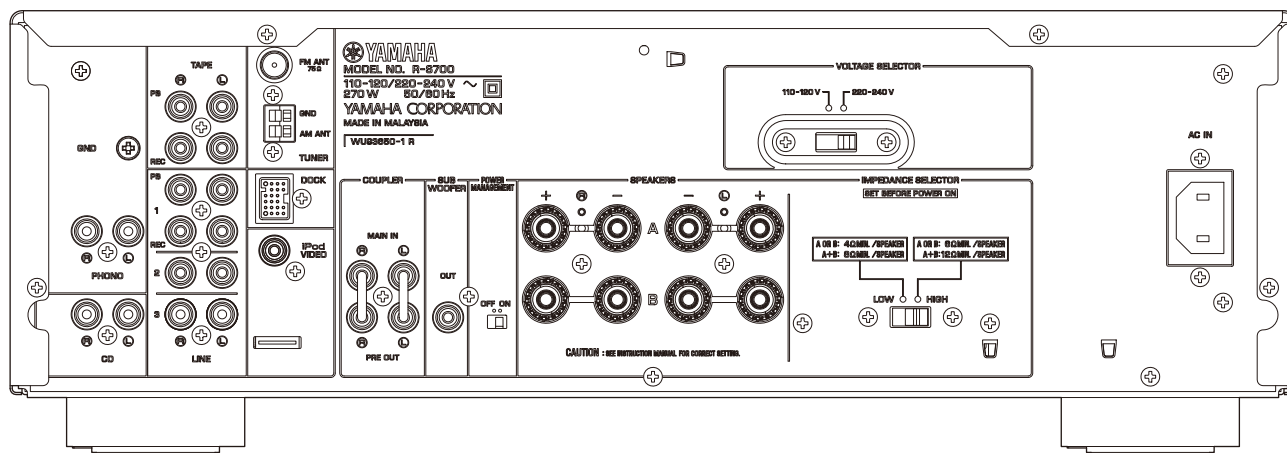
R-S700 (U model)



R-S700 (C model)

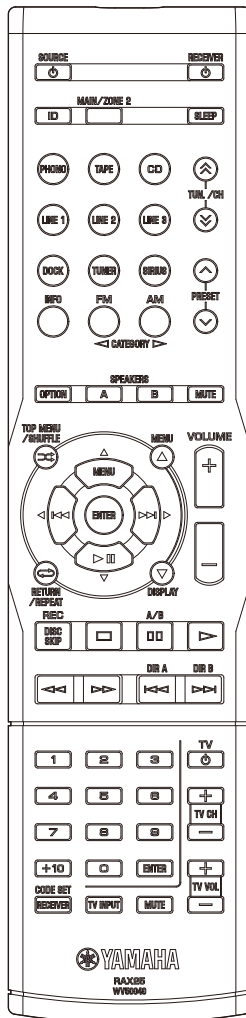


R-S700 (R model)

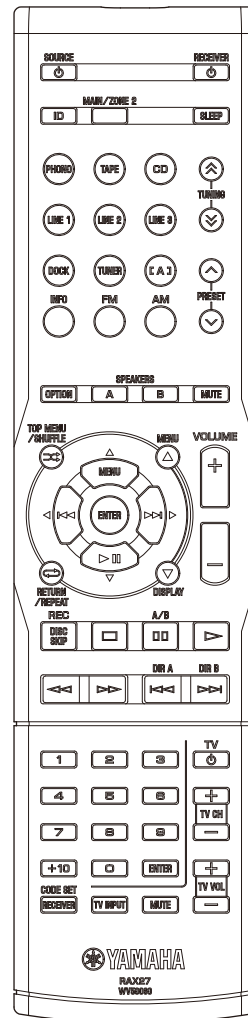


■ REMOTE CONTROL PANELS

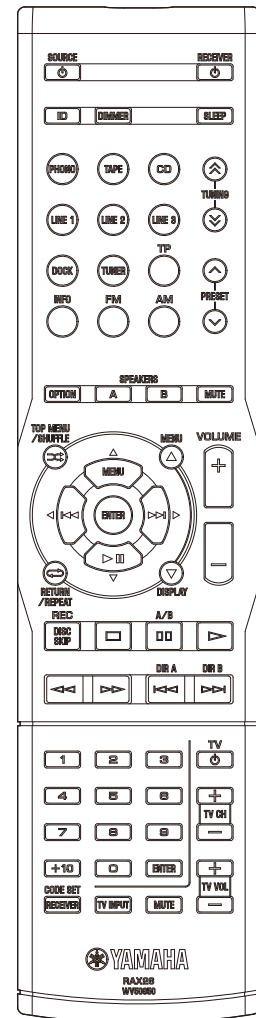
RAX25
(U model)



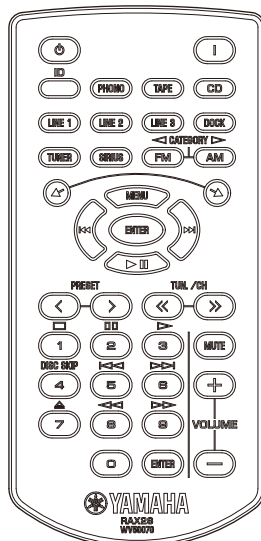
RAX27
(C, A models)



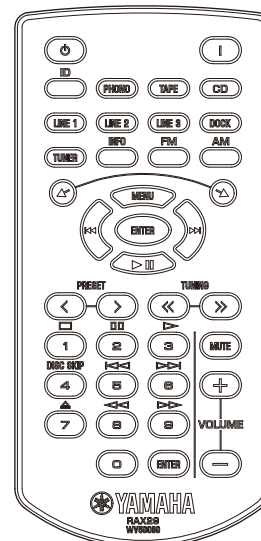
RAX26
(R, G models)



RAX28
(U model)



RAX29
(C, A models)



SPECIFICATIONS

Audio Section

Minimum RMS Output Power (Power Amp. Section)

(20 Hz to 20 kHz)	
(8 ohms, 0.019 % THD)	100 W + 100 W
(6 ohms, 0.03 % THD)	120 W + 120 W

Dynamic Power Per Channel (IHF)

(8/6/4/2 ohms)	140/170/220/290 W
----------------	-------------------

MAX Power Per Channel (1 kHz, 0.7 % THD, 4 ohms)

G model	160 W
---------	-------

IEC Power (1 kHz, 0.019 % THD, 8 ohms)

G model	115 W
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Power Band Width

(0.06 % THD, 50 W, 8 ohms)	10 Hz to 50 kHz
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Damping Factor (SPEAKER-A)

(1 kHz, 8 ohms)	240 or more
-----------------	-------------

Maximum Effective Output Power (1 kHz, 10 % THD, JEITA)

R model	
(8 ohms)	145 W
(6 ohms)	170 W

Input Sensitivity/Input Impedance

PHONO (MM)	3.5 mV / 47 k-ohms
CD, etc.	200 mV / 47 k-ohms
MAIN IN	1.0 V / 47 k-ohms

Maximum Input Signal (1 kHz)

PHONO (MM) (0.003 % THD)	60 mV or more
CD, etc. (0.5 % THD)	2.2 V or more

Output Level/Output Impedance

CD, etc. (Input, 1 kHz, 200 mV)	
REC OUT	200 mV / 1.0 k-ohms
CD, etc. (Input, 1 kHz, 200 mV, 8 ohms load)	
Headphone Jack	470 mV / 470 ohms

Frequency Response

CD, etc. (20 Hz to 20 kHz)	
	0 ±0.5 dB
CD, etc. Pure DIRECT ON / MAIN IN (10 Hz to 100 kHz)	
	0 ±1.0 dB

RIAA Equalization Deviation

PHONO (MM)	±0.5 dB
------------	---------

Total Harmonic Distortion (20 Hz to 20 kHz)

PHONO (MM) to REC OUT (3 V)	0.025 % or less
CD, etc. to SRE OUT (1 V)	0.005 % or less
CD, etc. to SP OUT (50 W, 8 ohms)	0.015 % or less

Signal to Noise Ratio (IHF-A Network)

PHONO (MM) (5 mV Input shorted)	
	87 dB or more
CD, etc. (Pure DIRECT ON) (200 mV input shorted)	
	100 dB or more
CD (CD DIRECT AMP ON) (200 mV input shorted)	
	107 dB or more

Residual Noise (IHF-A Network)

	30 µV
--	-------

Channel Separation

CD, etc. (Input 5.1 k-ohms shorted)	
1 kHz	65 dB or more
10 kHz	50 dB or more

Tone Control Characteristics

BASS	
Boost/Cut (50 Hz)	±10 dB
Turnover frequency	350 Hz
TREBLE	
Boost/Cut (20 kHz)	±10 dB
Turnover frequency	3.5 kHz

Continuous Loudness Control

Attenuation (1 kHz)	-30 dB
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Gain Tracking Error

(0 to -99 dB)	0.5 dB or less
---------------	----------------

FM Section

Tuning Range

U, C models	87.5 to 107.9 MHz
R, A, G models	87.50 to 108.00 MHz

50 dB Quieting Sensitivity (IHF)

(1 kHz, 100 % MOD.)	
Mono	3.0 µV (20.8 dBf)

Signal to Noise Ratio (IHF)

Mono/Stereo	74 dB/70 dB
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Harmonic Distortion (1 kHz)

Mono/Stereo	0.3 %
-------------	-------

Antenna Input

	75 ohms unbalanced
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AM Section

Tuning Range

U, C models	530 to 1,710 kHz
R, A, G models	531 to 1,611 kHz

Antenna

	Loop antenna
--	--------------

General

Power Supply

U, C models	AC 120 V, 60 Hz
R model	AC 110-120/220-240 V, 50/60 Hz
A model	AC 240 V, 50 Hz
G model	AC 230 V, 50 Hz

Power Consumption

U, C models	270 W, 370 VA
R, A, G models	270 W

Standby Power Consumption

	0.5 W or less
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YID-W10 Standby Power Consumption (YID-W10 connect)

	1.2 W or less
--	---------------

iPod Charge Power Consumption

	40 W or less
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Maximum Power Consumption

(1 kHz, 6 ohms, 10 % THD)	
R model	570 W

Dimensions (W x H x D)

	435 x 151 x 387 mm (17-1/8" x 6" x 15-1/4")
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Weight

	11.2 kg (24.7 lbs.)
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Finish

Black color	U, C, R, A, G models
Silver color	R, A, G models

Accessories

Remote control	x 1
ZONE2 remote control (U, C, A models)	x 1
Indoor FM antenna (1.4 m)	x 1
AM loop antenna (1.2 m)	x 1
Batteries (R03, AAA, UM-4)	x 2
Lithium battery (CR2025) (U, C, A models)	x 1
Power cable (2 m)	x 1

* Specifications are subject to change without notice.

U.....U.S.A. model

C.....Canadian model

R.....General model

A.....Australian model

G.....European model



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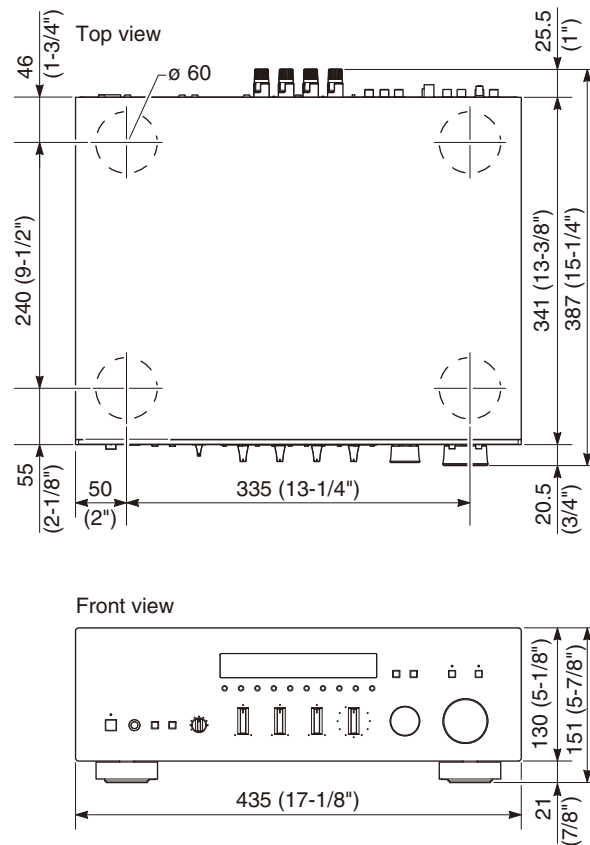
iPhone, iPod

iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

Bluetooth™

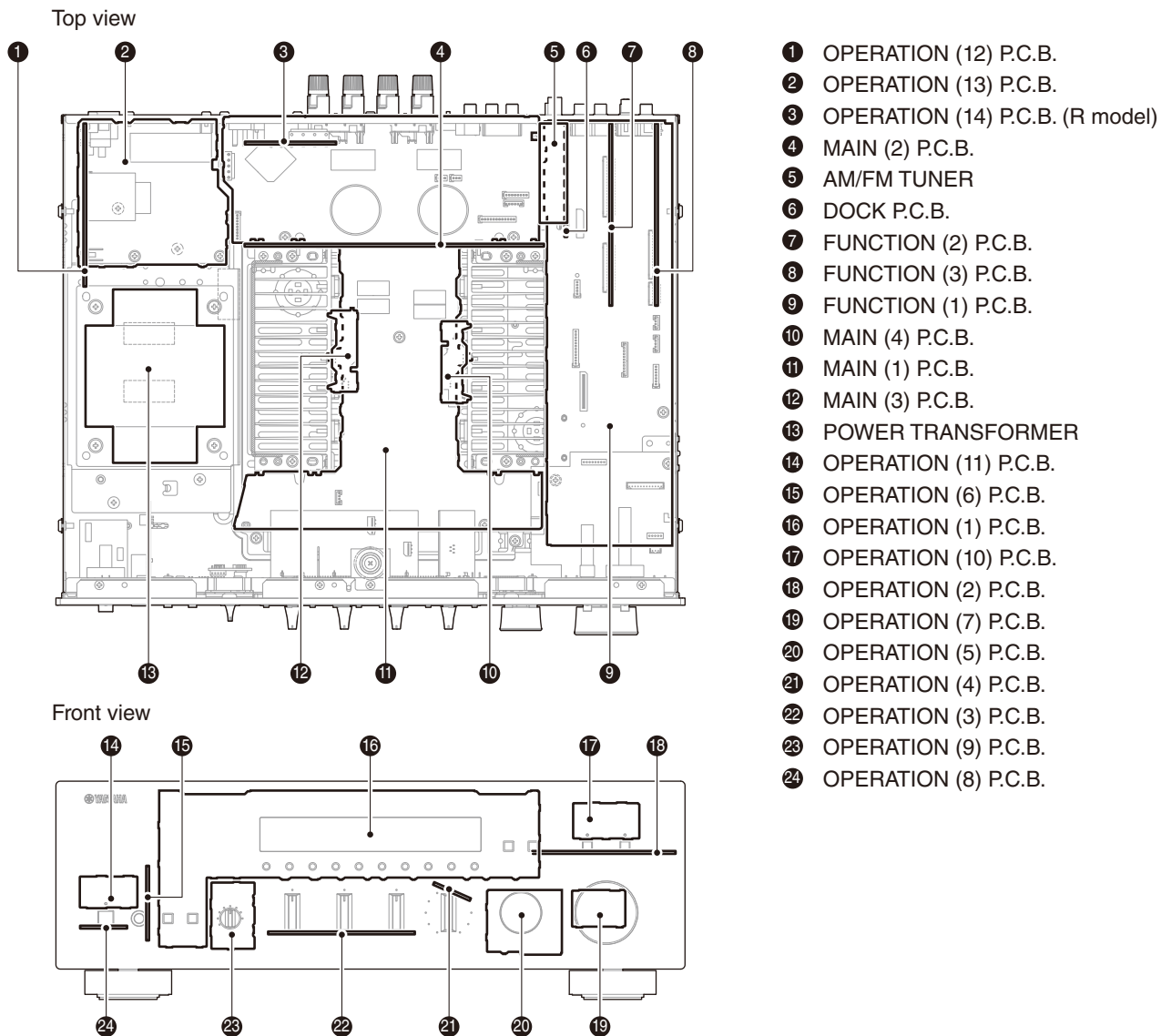
Bluetooth is a registered trademark of the Bluetooth SIG and is used by Yamaha in accordance with a license agreement.

• DIMENSIONS



Unit: mm (inch)

INTERNAL VIEW



SERVICE PRECAUTIONS

Safety measures

- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
- Note that the capacitors indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there.
Before starting any repair work, connect a discharging resistor (5k-ohms/10W) to the terminals of each capacitor indicated below to discharge electricity. The time required for discharging is about 30 seconds per each.

C134, C135 on MAIN (1) P.C.B.

For details, refer to "PRINTED CIRCUIT BOARDS: MAIN (1) P.C.B.".

■ DISASSEMBLY PROCEDURES

(Remove parts in the order as numbered.)

Disconnect the power cable from the AC outlet.

1. Removal of Top Cover

- Remove 4 screws (①), 4 screws (②) and screw (③). (Fig. 1)
- Remove the top cover. (Fig. 1)

2. Removal of Front Panel Unit

- Remove screw (④) and then remove the support top. (Fig. 1)
- Remove the knobs and caps. (Fig. 1)
- Remove 7 screws (⑤). (Fig. 1)
- Remove the front panel unit. (Fig. 1)

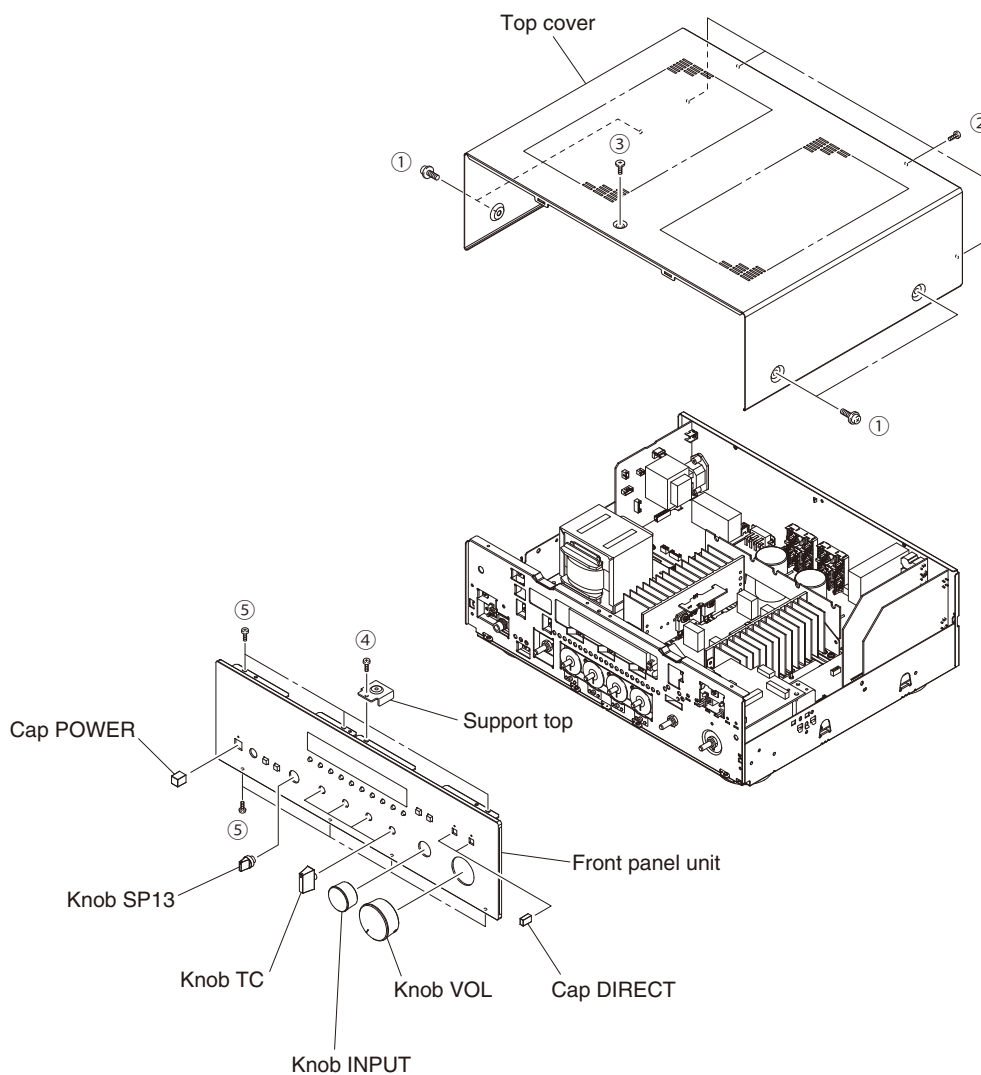


Fig. 1

3. Removal of Sub-chassis Unit

- Remove 2 screws (⑥) and screw (⑦). (Fig. 2)
- Remove CB11, CB101, CB108, CB503-505, CB513, CB706, CB801 and CB804. (Fig. 2)
- Release 2 hooks and then remove the sub-chassis unit. (Fig. 2)

4. Removal of AM/FM Tuner

- Remove 2 screws (⑧). (Fig. 3)
- Remove CB403. (Fig. 2)
- Remove the AM/FM tuner. (Fig. 2)

5. Removal of FUNCTION (1)-(3) and DOCK P.C.B.s

- Remove 11 screws (U model) / 10 screws (C, R, A, G models) (⑨). (Fig. 3)
- Remove screw (⑩) and screw (⑪). (Fig. 2)
- Remove CB2, CB14, CB21 and CB506. (Fig. 2)
- Remove the FUNCTION (1)-(3) P.C.B.s and DOCK P.C.B. together. (Fig. 2)

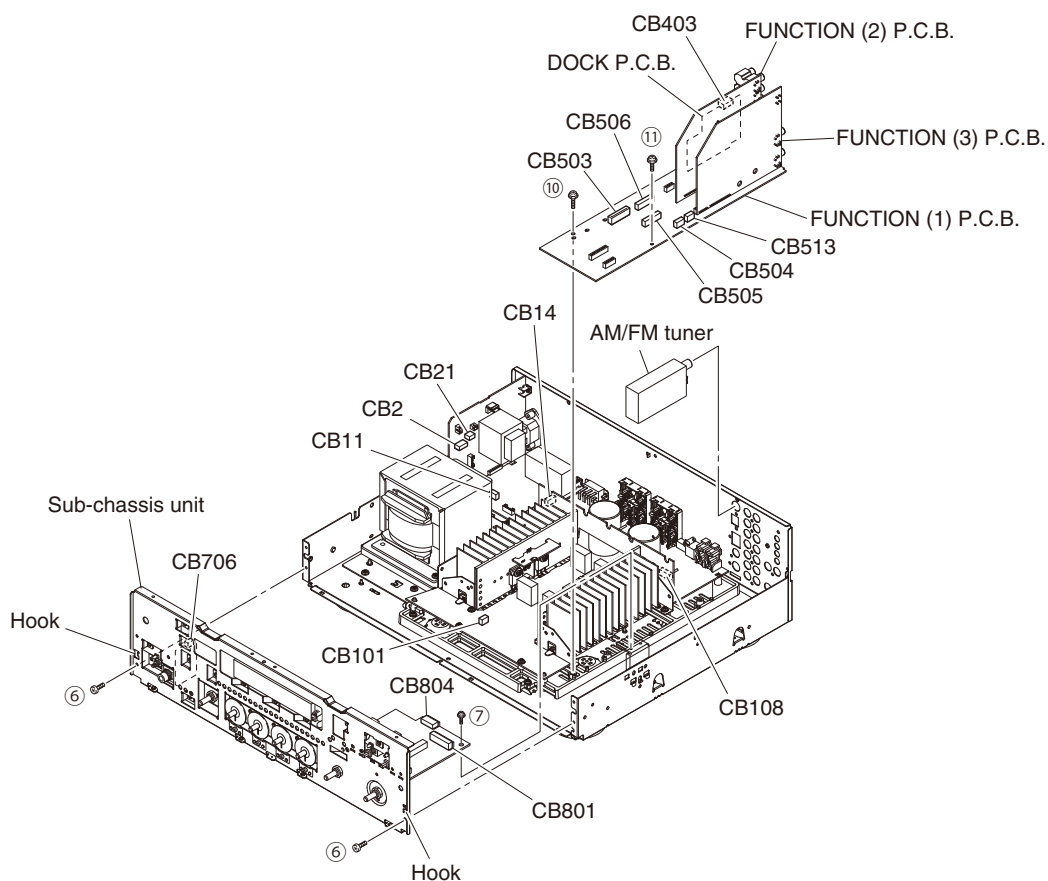


Fig. 2

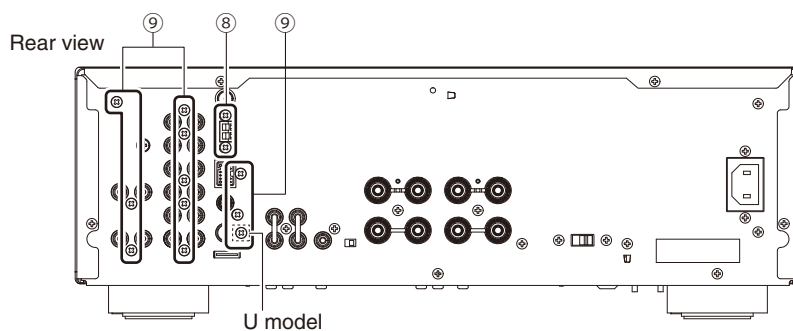
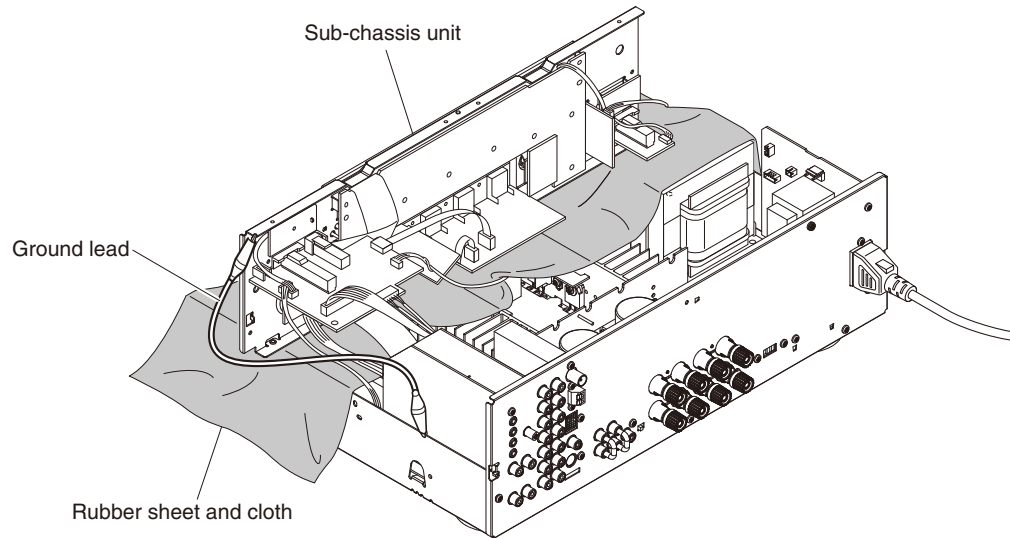


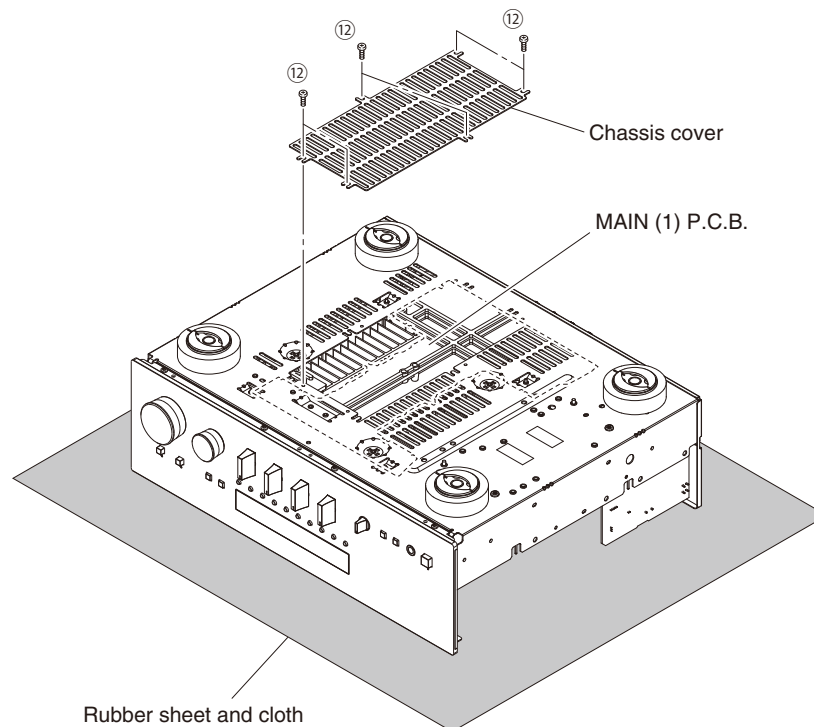
Fig. 3

When checking the P.C.B.s:

- Put the rubber sheet and cloth over this unit. Then place the sub-chassis unit on the cloth and check it. (Fig. 4)
- Connect the ground point of the sub-chassis unit to the chassis with a ground lead or the like. (Fig. 4)
- Reconnect all cables (connectors) that have been disconnected.
- When connecting the flexible flat cable, be careful with polarity.

**Fig. 4****When checking the MAIN (1) P.C.B.:**

- Spread the rubber sheet and the cloth. Then place this unit upside down. (Fig. 5)
- Remove 6 screws (12) and then remove the chassis cover. (Fig. 5)

**Fig. 5**

■ UPDATING FIRMWARE

When the following parts are replaced, the firmware must be updated to the latest version.

- FUNCTION P.C.B.
- Microprocessor (IC502 on FUNCTION P.C.B.)

● Confirmation of firmware version and checksum

Before and after updating the firmware, check the firmware version and checksum by using the self-diagnostic function menu.

Start up the self-diagnostic function and select “1. FIRMWARE VERSION” menu.
Using the sub-menu, have the firmware version and checksum displayed, and note them down.
(See “SELF-DIAGNOSTIC FUNCTION”)

* When the firmware version is different from written one, perform the UPDATING FIRMWARE from the beginning.

● Initializing the back-up IC (EEPROM: IC503 on FUNCTION P.C.B.)

After updating the firmware, the back-up IC MUST be initialized by the following procedure to have proper memorization of the set up information.

Start up the self-diagnostic function and select “3. FACTORY PRESET” menu.
(See “SELF-DIAGNOSTIC FUNCTION”)
Select “3. PRESET RSRV”, press the “MAIN ZONE ϕ” key (U, C, A models) / “ϕ” (Power) key (R, G models) to turn off the power once and press the “MAIN ZONE ϕ” key (U, C, A models) / “ϕ” (Power) key (R, G models) to turn on the power again. Then the back-up IC is initialized.

● Required Tools

- Firmware downloader program
..... FlashSta.exe
- Firmware
..... RSx00_xxx.mot
..... RSx00_xxx.id
- RS-232C cross cable “D-sub 9 pin female”
(Specifications)

Pin No.2 RxD	—————	Pin No.2 RxD
Pin No.3 TxD	—————	Pin No.3 TxD
Pin No.5 GND	—————	Pin No.5 GND
Pin No.7 RTS	—————	Pin No.7 RTS
Pin No.8 CTS	—————	Pin No.8 CTS
- RS-232C conversion adaptor (Part No.: WR492800)

● Preparation and precautions

- Download the firmware downloader program and the latest firmware from the specified download source to the same folder of the PC.
- Prepare the above specified RS-232C cross cable.
- While writing the firmware, keep the other application software on the PC closed.
It is also recommended to keep the software on the task tray closed as well.

● Connection

- * Disconnect the power cable of this unit from the AC outlet.
- Set the switch (SW7) of RS-232C conversion adaptor to the “FLASH UCOM” position. (Fig. 1)
- Connect the writing port (CB509 on FUNCTION P.C.B.) located on the rear panel of this unit to the serial port (RS-232C) of the PC with RS-232C cross cable, RS-232C conversion adaptor and flexible flat cable as shown below. (Fig. 1)

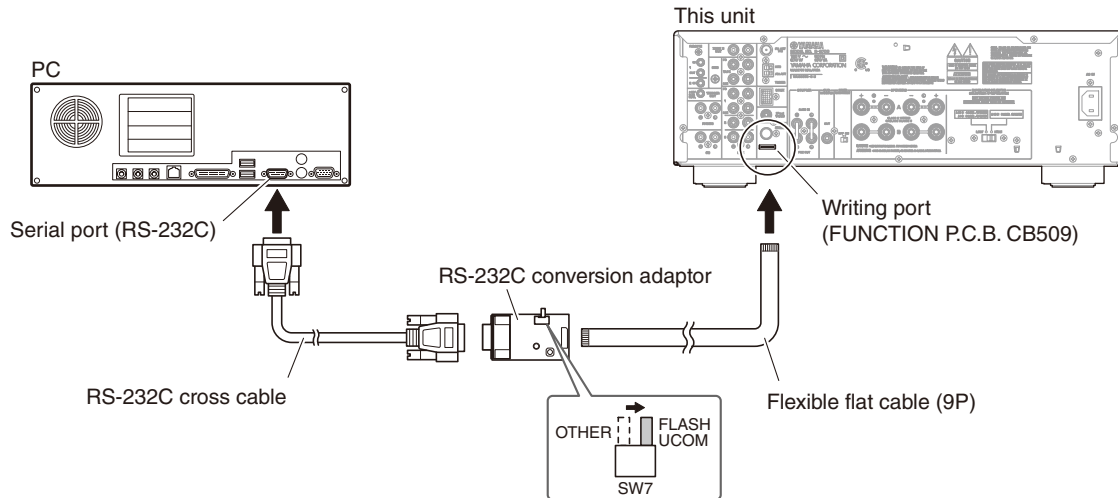


Fig. 1

● Operation procedure

1. Connect the power cable of this unit to the AC outlet.
The power to this unit is supplied and the microprocessor is in the writing mode.
 2. Start up FlashSta.exe.
The screen appears as shown below. (Fig. 2)
 3. Select the data to be transmitted and port. (Fig. 2)
 - Select Program
Select Internal flash memory.
 - RS-232C
Select the port of RS-232C.
- * For selection of the port, COM1 to 4 can be used.
As COM5 or higher port cannot be used, select out of COM 1 to 4 of the setting on the PC side.

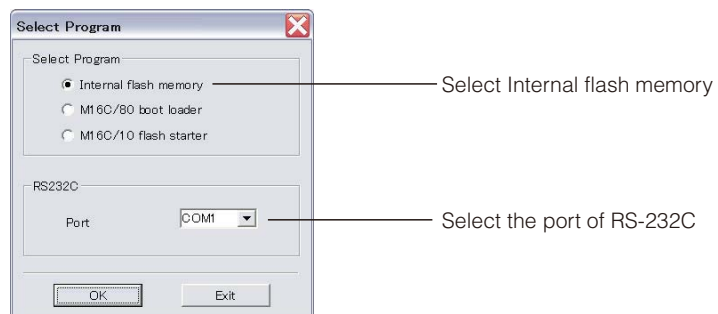


Fig. 2

4. Click [Refer...] and select the firmware name. (Fig. 3)

* The ID and MCU Type are loaded automatically when the file is selected. (Fig. 3)
Click [OK]. (Fig. 3)

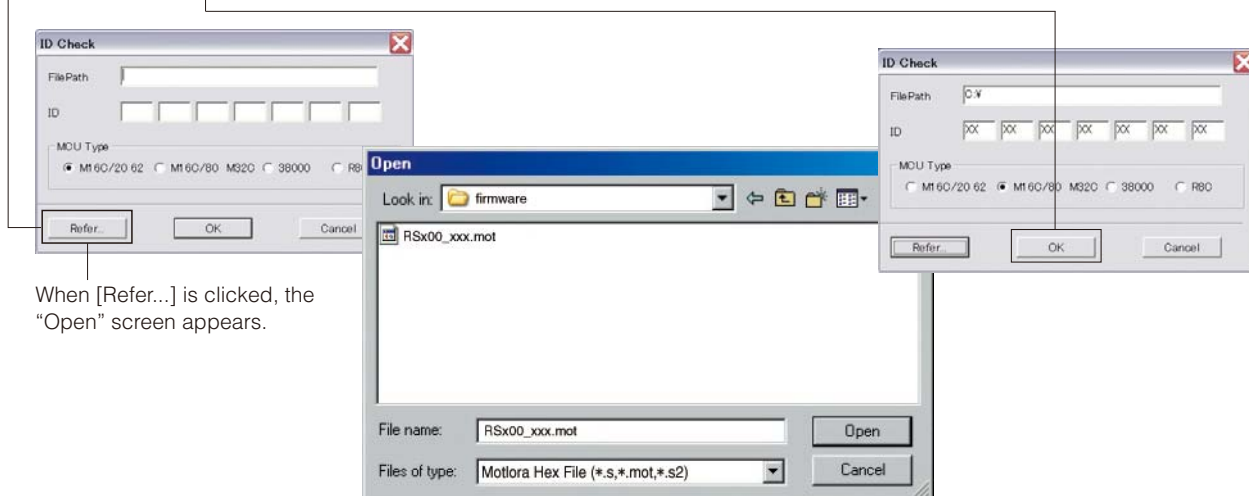


Fig. 3

5. Click [Setting], and set the baud rate. (Fig. 4)

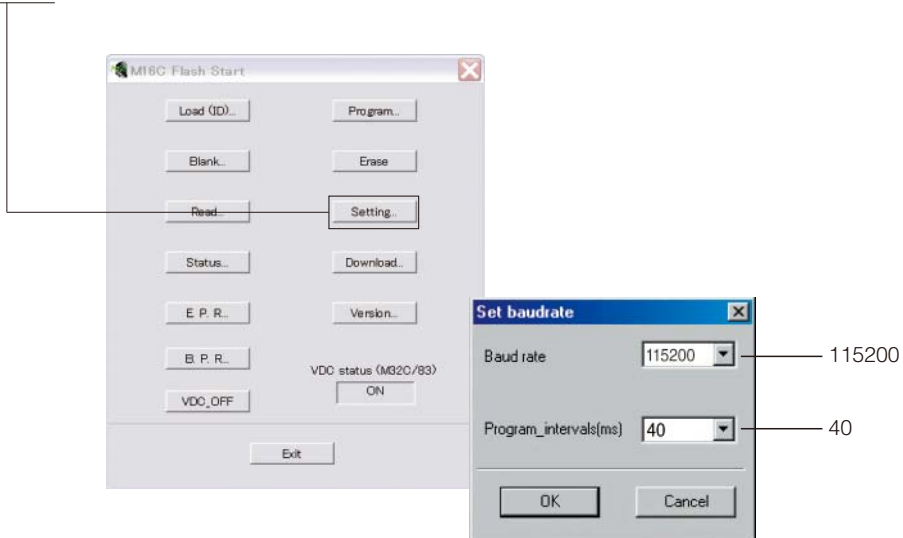


Fig. 4

6. Click [E.P.R.], then the “Erase” screen appears. (Fig. 5)

7. Click [OK] to start writing. (Fig. 5)

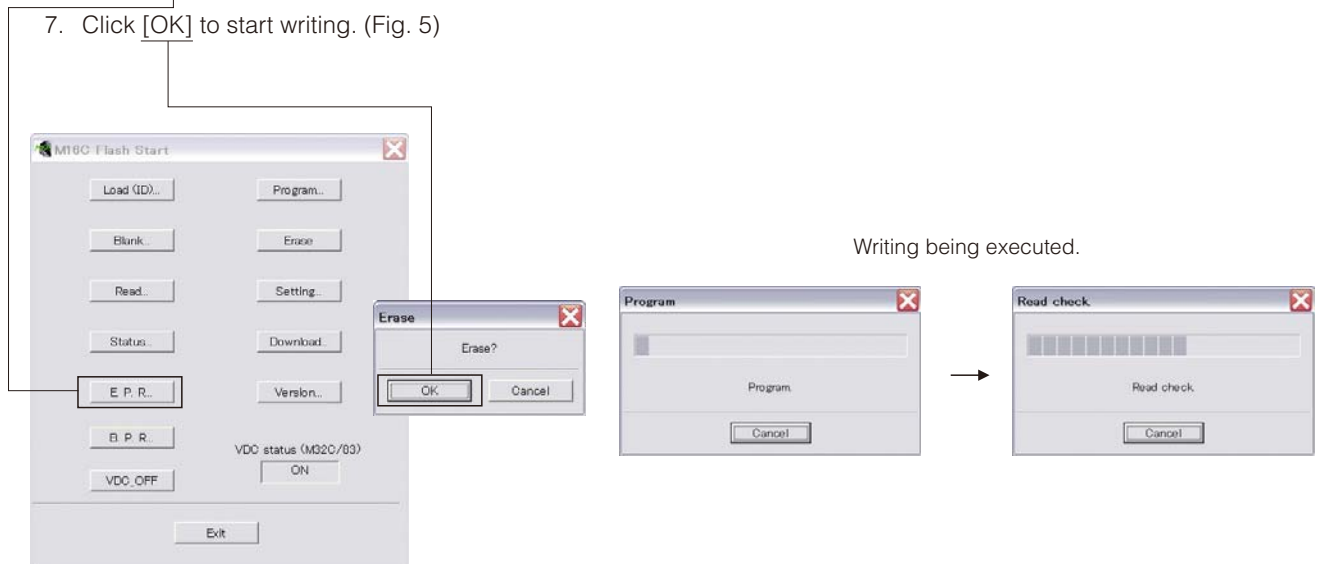


Fig. 5

8. When writing of the firmware is completed, the screen appears as shown below. (Fig. 6)

Click [OK]. (Fig. 6)

9. Click [Exit] to end FlashSta.exe. (Fig. 6)

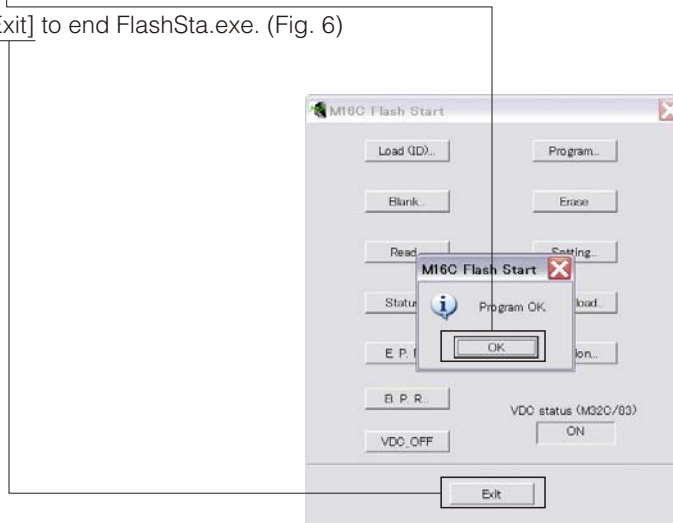


Fig. 6

10. Disconnect the power cable of this unit from the AC outlet.

11. Remove the RS-232C conversion adaptor and flexible flat cable from the writing port of this unit.

12. Connect the power cable of this unit to the AC outlet, start up the self-diagnostic function and check that the firmware version is the same as written one. (See “Confirmation of firmware version and checksum”)

■ SELF-DIAGNOSTIC FUNCTION

This unit has self-diagnostic functions that are intended for inspection, measurement and location of faulty point.

There are 8 main menu items, each of which has sub-menu items.

Listed in the table below are main menu items and sub-menu items.

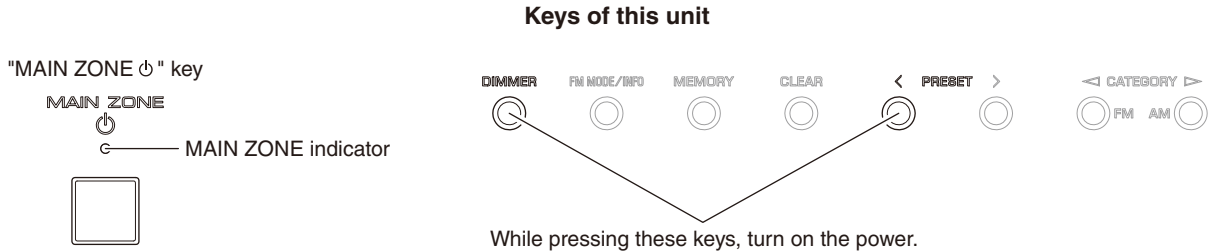
Note that not all menu items listed will apply to the models covered in this service manual.

No.	Main menu	No.	Sub-menu
1	VERSION	1	FIRMWARE VERSION
		2	FIRMWARE CHECKSUM
		3	SIRIUS VERSION (U model)
		4	MODEL/DESTINATION
		5	VERIFY ERROR (Not for service)
2	DISPLAY	1	VFD CHECK
		2	ALL SEGMENT OFF
		3	ALL SEGMENT ON
		4	ALL SEGMENT DIMMER
		5	CHECK PATTERN
3	FACTORY PRESET	1	PRESET INHIBIT
		2	PRESET RESERVE
4	AD DATA	1	PS/DC
		2	TA/TB
		3	KEY 0/KEY 1
		4	REC OUT SWITCH/DOCK TYPE
		5	MODEL/DESTINATION
5	DOCK	1	LOOP BACK CHECK
		2	BT VERSION
6	PROTECTION HISTORY	1	HISTORY 1
		2	HISTORY 2
		3	HISTORY 3
		4	HISTORY 4
7	SIRIUS (U model)	1	SIRIUS
		2	SR
		3	SSP
		4	MAC
		5	ADP
		6	PRDID
		7	SEQID
8	POWER OFF FACTOR HISTORY	1	LAST
		2	HISTORY 1
		3	HISTORY 2
		4	HISTORY 3
		5	HISTORY 4

● Starting Self-Diagnostic Function

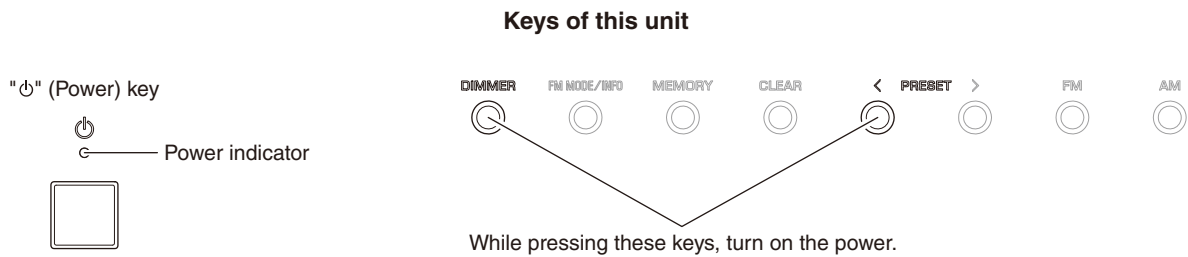
— U, C, A models —

While pressing the “DIMMER” and “PRESET <” keys, press the “MAIN ZONE ϕ ” key to turn on the power.
The self-diagnostic function mode is activated.



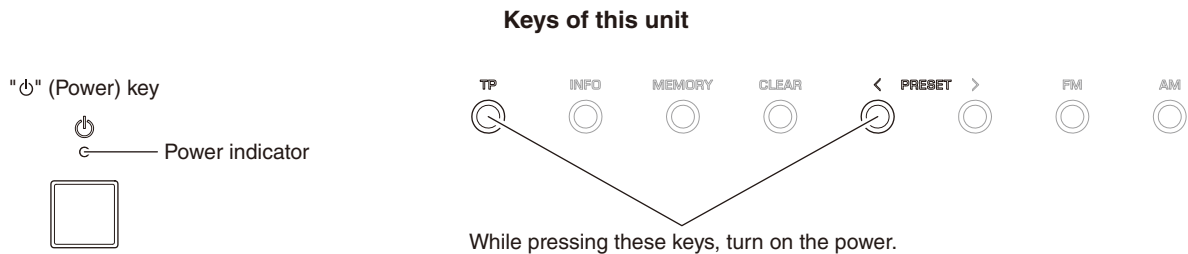
— R model —

While pressing the “DIMMER” and “PRESET <” keys, press the “ ϕ ” (Power) key to turn on the power.
The self-diagnostic function mode is activated.



— G model —

While pressing the “TP” and “PRESET <” keys, press the “ ϕ ” (Power) key to turn on the power.
The self-diagnostic function mode is activated.



● Starting Self-Diagnostic Function in the protection cancel mode

If the protection function works and causes hindrance to trouble shoot, cancel the protection function as described below, and it will be possible to enter the self-diagnostic function mode. The protection functions other than the excess current detect function will be disabled.

While pressing the “DIMMER” key (U, C, R, A models) / “TP” key (G model) and “PRESET <” key as shown in the figure above, press the “MAIN ZONE ϕ ” key (U, C, A models) / “ ϕ ” (Power) key (R, G models) to turn on the power and keep pressing those 2 keys for 3 seconds or longer.

The self-diagnostic function mode is activated with the protection functions disabled.

In this mode, the “SLEEP” segment of the FL display flashes to indicate that the mode is self-diagnostic function mode with the protection functions disabled.

CAUTION!

Using this product with the protection function disabled may cause further damage to this unit. Use special care for this point when using this mode.

● Canceling Self-Diagnostic Function

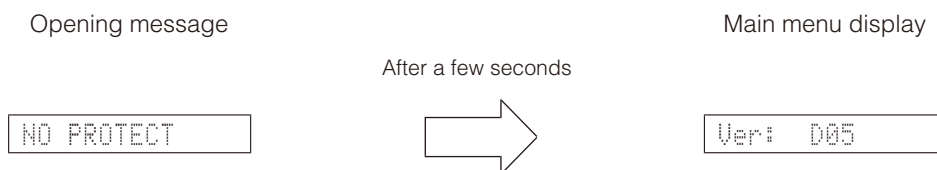
- Before canceling self-diagnostic function, execute setting for FACTORY PRESET of main menu No. 3. (Memory initialization inhibited or Memory initialized).
 - * In order to keep the user memory preserved, be sure to select PRESET INHIBIT (Memory initialization inhibited).
- Press the “MAIN ZONE ϕ ” key (U, C, A models) / “ ϕ ” (Power) key (R, G models) to turn off the power.

● Display provided when Self-Diagnostic Function started

The display is as described below depending on the situation the last time the power to this unit is turned off.

1. When the power is turned off by usual operation:

“NO PROTECT” is displayed. Then the “1-1. FIRMWARE VERSION” menu is displayed in a few seconds.



2. When the protection function worked to turn off the power:

The data of protection function which worked at the moment is displayed. Then “1-1. FIRMWARE VERSION” menu is displayed in a few seconds.

Note: At that time if you reactivate the self-diagnostic function after turning off the power once by pressing the “MAIN ZONE ϕ ” key (U, C, A models) / “ ϕ ” (Power) key (R, G models), “NO PROTECT” will be displayed because that situation is equal to “1. When the power is turned off by usual operation:” described above.

However the protection function history is stored in a back-up IC with a backup. For details, refer to main menu “6. PROTECTION HISTORY.”

2-1. When there is a history of protection function due to excess current.

I PROTECT

Display: The MAIN ZONE indicator is flashing. (U, C, A models)

The Power indicator is flashing. (R, G models)

Cause: An excessive current flowed through the power amplifier.

Supplementary information: As current of the power amplifier is detected, the abnormal channel can be identified by checking the current detect transistor.

Turning on the power without correcting the abnormality will cause the protection function to work immediately and the power supply will instantly be shut off.

Notes)

- Applying the power to this unit without correcting the abnormality can be dangerous and cause additional circuit damage. To avoid this, if protection function due to excess current works 1 time, the power will not turn on even when the “MAIN ZONE ϕ ” key (U, C, A models) / “ ϕ ” (Power) key (R, G models) is pressed. In order to turn on the power again, disconnect the power cable of this unit from the AC outlet once and then reconnect it again.
- The output transistors in each amplifier channel should be checked for damage before applying power to this unit.
- Amplifier current should be monitored by measuring DC voltage across the emitter resistors for each channel.

2-2. When the protection function worked due to abnormal DC output.

DC FRT:xxxH

AD conversion value when the protection function is working

Cause: DC output of the power amplifier is abnormal.

Supplementary information: The protection function worked due to a DC voltage appearing at the speaker terminal. A cause could be a defect in the amplifier.

Turning on the power without correcting the abnormality will cause the protection function to work in 3 seconds and the power supply will be shut off.

2-3. When the protection function worked due to abnormal voltage in the power supply section.

PS FRT:xxxL

AD conversion value when the protection function is working

Cause: The voltage in the power supply section is abnormal.

Supplementary information: The protection function worked due to a defect or overload in the power supply.

Turning on the power without correcting the abnormality will cause the protection function to work in 1 seconds and the power supply will be shut off.

Notes)

- Applying the power to this unit without correcting the abnormality can be dangerous and cause additional circuit damage. To avoid this, if “PS” and “DC” protection function works 3 times consecutively, the power will not turn on even when the “MAIN ZONE ⏻” key (U, C, A models) / “⏻” (Power) key (R, G models) is pressed. In order to turn on the power again, disconnect the power cable of this unit from the AC outlet once and then reconnect it again.
- The output transistors in each amplifier channel should be checked for damage before applying power to this unit.
- Amplifier current should be monitored by measuring DC voltage across the emitter resistors for each channel.

2-4. When the protection function worked due to excessive heatsink temperature.

THA FRT:xxxH

AD conversion value when the protection function is working

Cause: The temperature of the heatsink is excessive.

Supplementary information: The protection function worked due to the temperature limit being exceeded. Causes could be poor ventilation or a defect related to the thermal sensor.

Turning on the power without correcting the abnormality will cause the protection function to work in 1 seconds and the power supply will be shut off.

● History of protection function

When the protection function has worked, its history is stored in memory with a backup.

Even if no abnormality is noted while servicing the unit, an abnormality which has occurred previously can be defined as long as the backup data has been stored.

For details, refer to main menu 6 PROTECTION HISTORY.

● Operation procedure of Main menu and Sub-menu

There are 8 main menu items, each of which has sub-menu items.

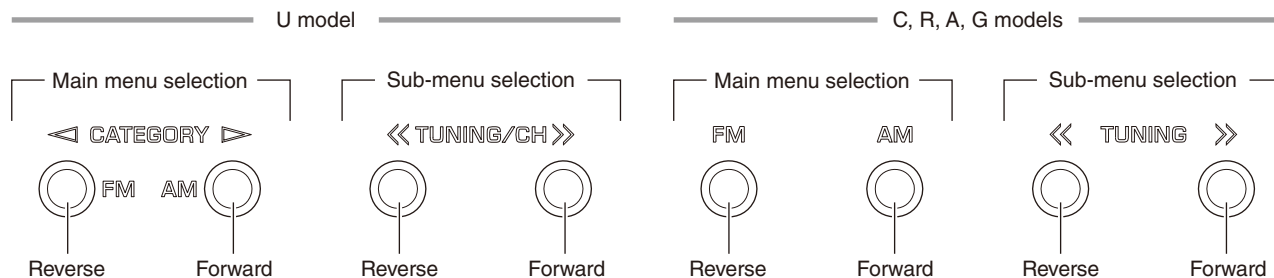
Main menu selection

Select the main menu using "AM" (forward) and "FM" (reverse) keys.

Sub-menu selection

Select the sub-menu using "TUNING >>" (forward) and "TUNING <<" (reverse) keys.

Keys of this unit



● Functions in Self-Diagnostic Function mode

In addition to the self-diagnostic function menu items, functions as listed below are available.

- Power ON/OFF
- Master volume
- Tone control
- CD DIRECT AMP ON/OFF
- PURE DIRECT ON/OFF
- ZONE 2 ON/OFF (U, C, A models)

* Functions related to the tuner and the set menu are not available.

● Initial settings when Self-Diagnostic Function started

The following initial settings are used when starting self-diagnostic function.

When self-diagnostic function is canceled, these settings are restored to those before starting self-diagnostic function.

- Master volume: -20 dB
- Input: CD
- ZONE 2: ON (U, C, A models)
- SPEAKER: SP A on

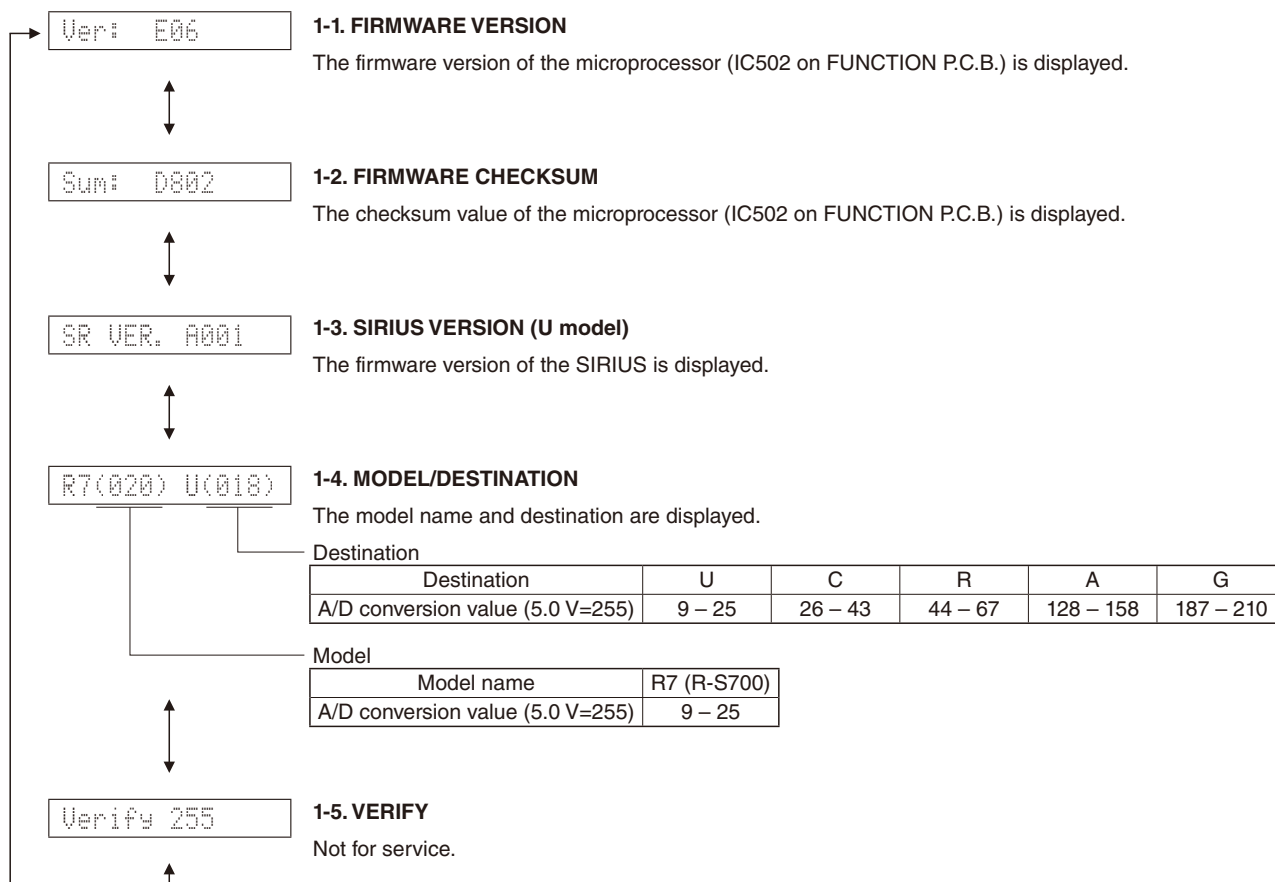
● Details of Self-Diagnostic Function menu

1. VERSION

The firmware version and checksum values are displayed.

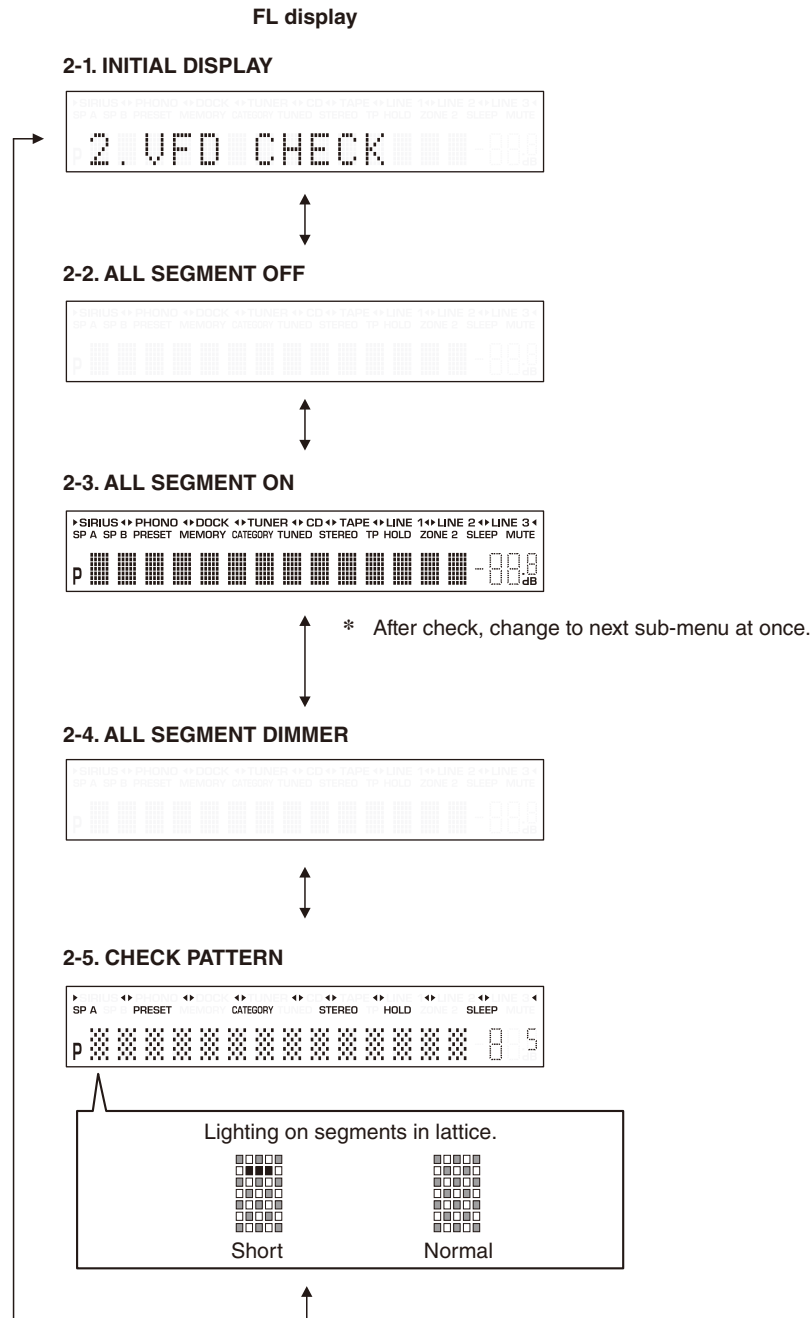
The checksum is obtained by adding the data at every 8-bit and expressing the result as a 4-figure hexadecimal notation.

* Numeric values in the figure are given as reference only.



2. DISPLAY

This menu is used to check the FL display.



Segment conditions of the FL driver and the FL tube are checked by turning ON and OFF all segments.

Next, the operation of the FL driver is checked by using the dimmer control.

Then a short between segments next to each other is checked by turning ON and OFF all segments alternately (in lattice).

(In the above example, the segments in the second row from the top are shorted.)

3. FACTORY PRESET

This menu is used to reserve/inhibit initialization of the back-up IC (EEPROM: IC503 on FUNCTION P.C.B.).

3. PRESET INHI



3. PRESET RSRV

3-1. PRESET INHIBIT (Initialization inhibited)

Initialization of the back-up IC is not executed. Select this sub-menu to protect the values set by the user.

3-2. PRESET RESERVED (Initialization reserved)

Initialization of the back-up IC is reserved. (Actual initialization is executed the next time the power is turned on.) To reset to the original factory settings or to reset the backup IC, select this sub-menu and press the "MAIN ZONE 0" key (U, C, A models) / "0" (Power) key (R, G models) to turn off the power.

CAUTION: Before setting to the PRESET RESERVED, write down the existing preset memory content of the tuner. (This is because setting to the PRESET RESERVED will cause the user memory content to be erased.)

4. AD DATA

This menu is used to display the A/D conversion value of the microprocessor which detects panel keys and protection functions by using the sub-menu.

When "4-3. KEY 0/KEY 1" sub-menu is selected, keys become non-operable due to detection of the values of all keys. However, it is possible to advance to the next sub-menu by turning the "INPUT" knob.

* Numeric values in the figure are given as reference only.

4-1. PS/DC

PS: Power supply voltage protection detection

The voltage at 93 pin (PRV) of the IC502 is displayed.

Voltage detects:

PS: ACL, AC15, ± 15 , +5S, +15UNREG (R model)

Normal value:

PS: 36 to 77 (Reference voltage: 5.0 V=255)

* If PS becomes out of the normal value range, the protection function works to turn off the power.

DC: Power amplifier DC (DC voltage) output is detected.

The voltage at 89 pin (PRD) of the IC502 is displayed.

Normal value: 48 to 128 (Reference voltage: 5.0 V=255)

* If DC becomes out of the normal value range, the protection function works to turn off the power.

PS:052 DC:077

4-2. TA/TB

Temperature of the heatsink is detected.

TA: The voltage at 84 pin (THM_L) of the IC502 is displayed.

TB: The voltage at 83 pin (THM_R) of the IC502 is displayed.

Normal value: TA/TB 10 to 85 (Reference voltage: 5.0 V=255)

* If TA or TB becomes out of the normal value range, the protection function works to turn off the power.

TA:046 TB:045

4-3. KEY 0/KEY 1

Panel key is detected.

KEY 0: The voltage at 95 pin (KEY0) of the IC502 is displayed.

KEY 1: The voltage at 94 pin (KEY1) of the IC502 is displayed.

(Reference voltage: 5.0 V=255)

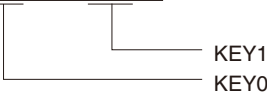
When the A/D conversion value of the panel key becomes out of the specified range, normal operation will not be available.

In that case, check the constant of voltage dividing resistor, solder condition, etc. Refer to table.

* When “4-3. KEY 0/KEY 1” sub-menu is selected, keys become non-operable due to detection of the values of all keys. However, it is possible to advance to the next sub-menu by turning the “INPUT” knob of this unit.

(Reference voltage: 5.0 V=255)

K0:255 K1:255



Display	K0	
0 – 11	DIMMER	(U, C, R, A models)
	TP	(G model)
12 – 32	FM MODE / INFO	(U, C, R, A models)
	INFO	(G model)
33 – 54	MEMORY	
55 – 79	CLEAR	
80 – 107	ZONE 2 CONTROL (U, C, A models)	
108 – 134	SPEAKERS A	
135 – 156	SPEAKERS B	
157 – 255	Key off	

Display	K1	
0 – 11	PRESET <	
12 – 32	PRESET >	
33 – 54	FM	
55 – 79	AM	
80 – 107	TUNING/CH <<	(U model)
	TUNING <<	(C, R, A, G models)
108 – 134	TUNING/CH >>	(U model)
	TUNING >>	(C, R, A, G models)
135 – 156	ZONE 2 (U, C, A models)	
157 – 255	Key off	

4-4. REC OUT SWITCH/DOCK TYPE

REC OUT SWITCH: REC OUT switch is detected.

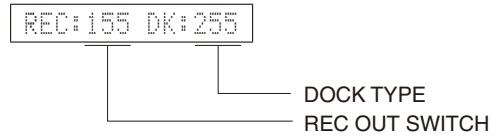
The voltage at 97 pin (REC) of the IC502 is displayed. (Reference voltage: 5.0 V=255)

When the A/D conversion value of the REC OUT switch becomes out of the specified range, normal operation will not be available.

In that case, check the constant of voltage dividing resistor, solder condition, etc. Refer to table.

DOCK TYPE: DOCK type is detected.

The voltage at 69 pin (DOCK_TYP) of the IC502 is displayed. (Reference voltage: 5.0 V=255)



REC OUT SWITCH

A/D conversion value (5.0 V=255)	16 – 46	47 – 77	78 – 108	109 – 139	140 – 171	172 – 203	204 – 237	238 – 255
REC OUT selector	PHONO	DOCK	TUNER	CD	SOURCE	TAPE	LINE 1	LINE 2

DOCK TYPE

DOCK type	Bluetooth (YBA-10)	Wireless iPod (YID-W10)	iPod		No connected
			(YDS-11/12 (B*))	(YDS-12 (A*))	
A/D conversion value (5.0 V=255)	0 – 32	82 – 109	110 – 146	147 – 175	238 – 255

* Mode switch setting of the YDS-12

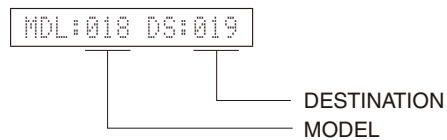
4-5. MODEL/DESTINATION

MODEL: Model name is detected.

The voltage at 72 pin (MODEL) of the IC502 is displayed. (Reference voltage: 5.0 V=255)

DESTINATION: Destination is detected.

The voltage at 71 pin (DEST) of the IC502 is displayed. (Reference voltage: 5.0 V=255)



MODEL

A/D conversion value (5.0 V=255)	9 – 25
Model name	R-S700

DESTINATION

A/D conversion value (5.0 V=255)	9 – 25	26 – 43	44 – 67	128 – 158	187 – 210
Destination	U	C	R	A	G

5. DOCK

5-1. LOOP BACK CHECK

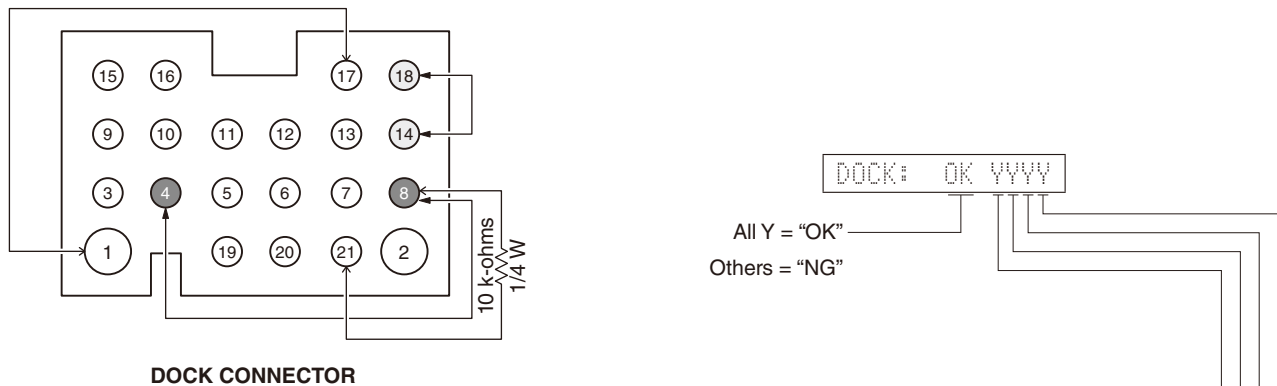
This menu is used to check the DOCK connector without the iPod itself.

With the power turned off, short the pins of the DOCK connector as shown in the figure below.

Start up the self-diagnostic function and select this menu.

The check result is displayed according to the following display specifications.

Note) Be sure to return the shorted pins to their original condition after executing this test.



Check item	Result		Display
UART loop back test	OK		Y
	NG		N
IPD_N_APDET (iPod accessory power) detection	IC502 pin No. 23	Low = YES	Y
		High = NO	N
IPD_N_DET (iPod installation to DOCK) detection	IC502 pin No. 68	Low = installed	Y
		High = not installed	N
DOCK_TYP (DOCK ID) detection	IC502 pin No. 69	10 k-ohms, 1/4 W pull down	Y
		Other	N

5-2. BT VERSION

The DOCK (Bluetooth module: YBA-10) version is displayed.

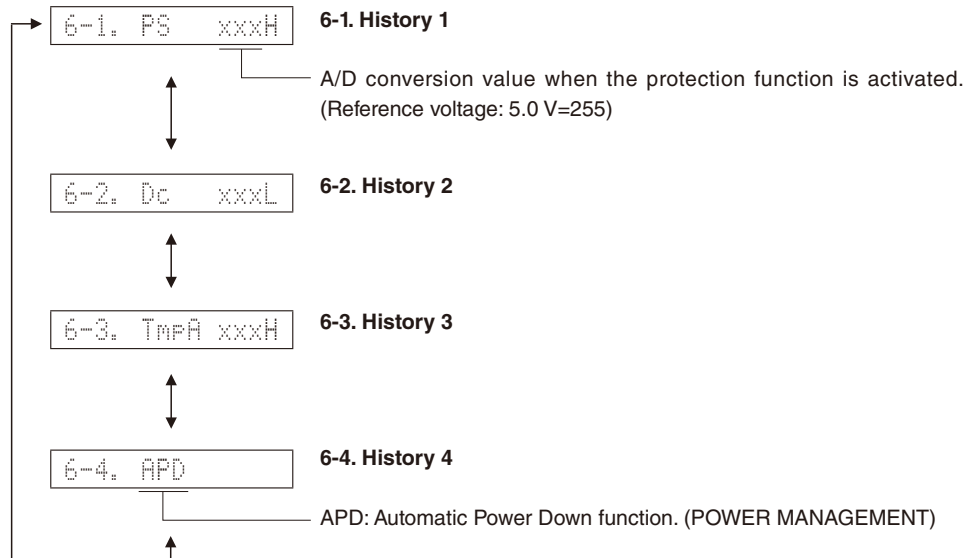


6. PROTECTION HISTORY

This menu is used to display the history of protection function.

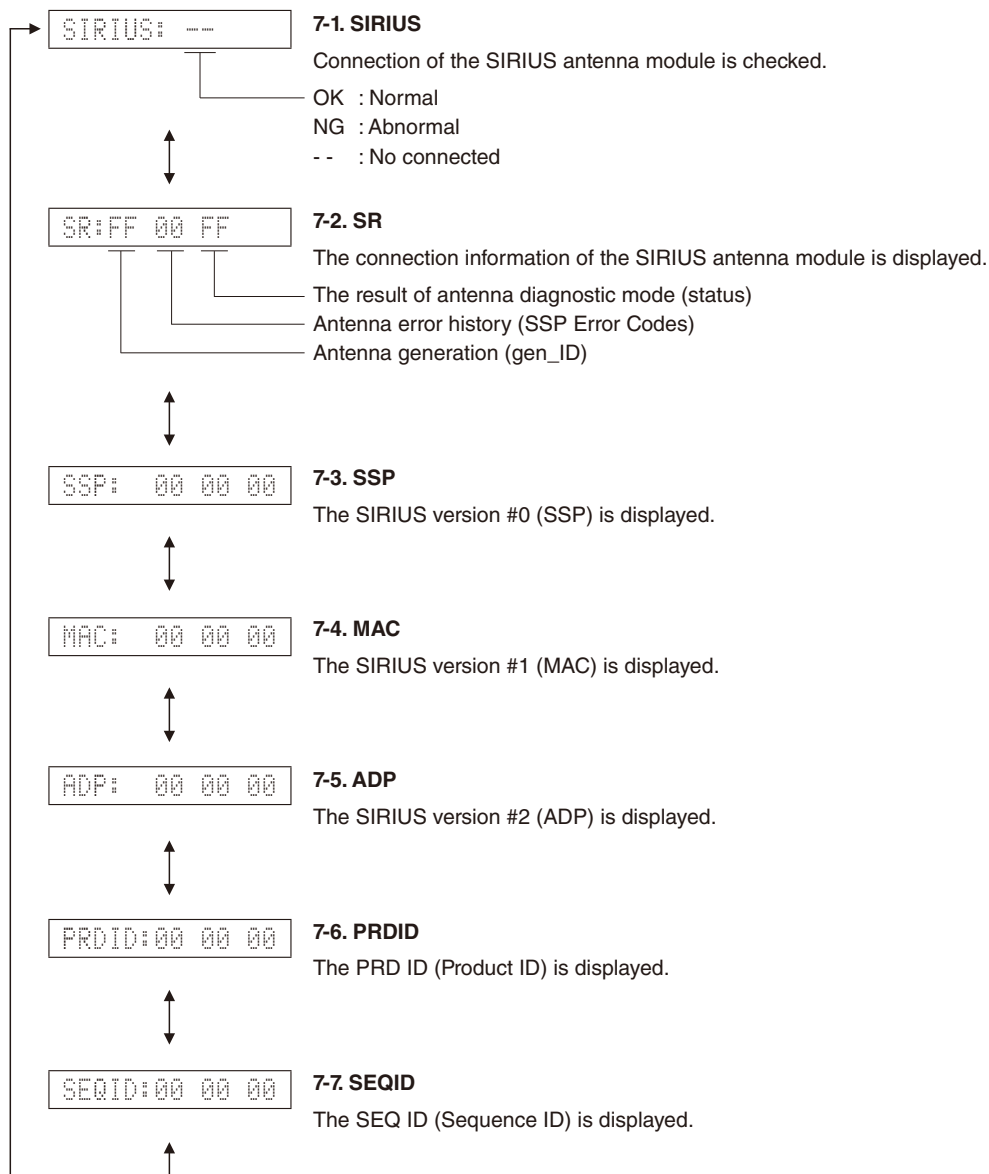
All history of protection function will be erased by pressing the "CLEAR" key.

* Numeric values in the figure are given as reference only.



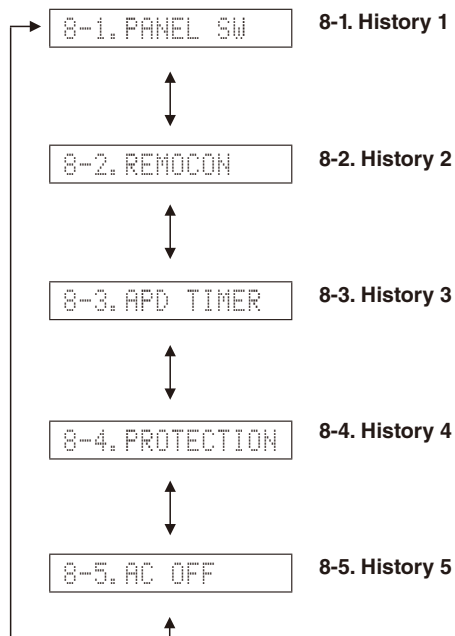
7. SIRIUS (U model)

This menu is used to display the information of SIRIUS.



8. POWER OFF FACTOR HISTORY

This menu is used to display the history of power off factor.



Power off factor are as follows.

8-x PANEL SW	"MAIN ZONE ϕ" key (U, C, A models) / "ϕ" (Power) key (R, G models) of this unit
8-x REMOCON	"RECEIVER ϕ" key on the remote control
8-x SLEEP	SLEEP timer
8-x APD TIMER	POWER MANAGEMENT (Automatic Power Down) timer
8-x PROTECTION	Protection
8-x AC OFF	AC OFF
8-x NO HISTORY	No history

■ AMP ADJUSTMENT

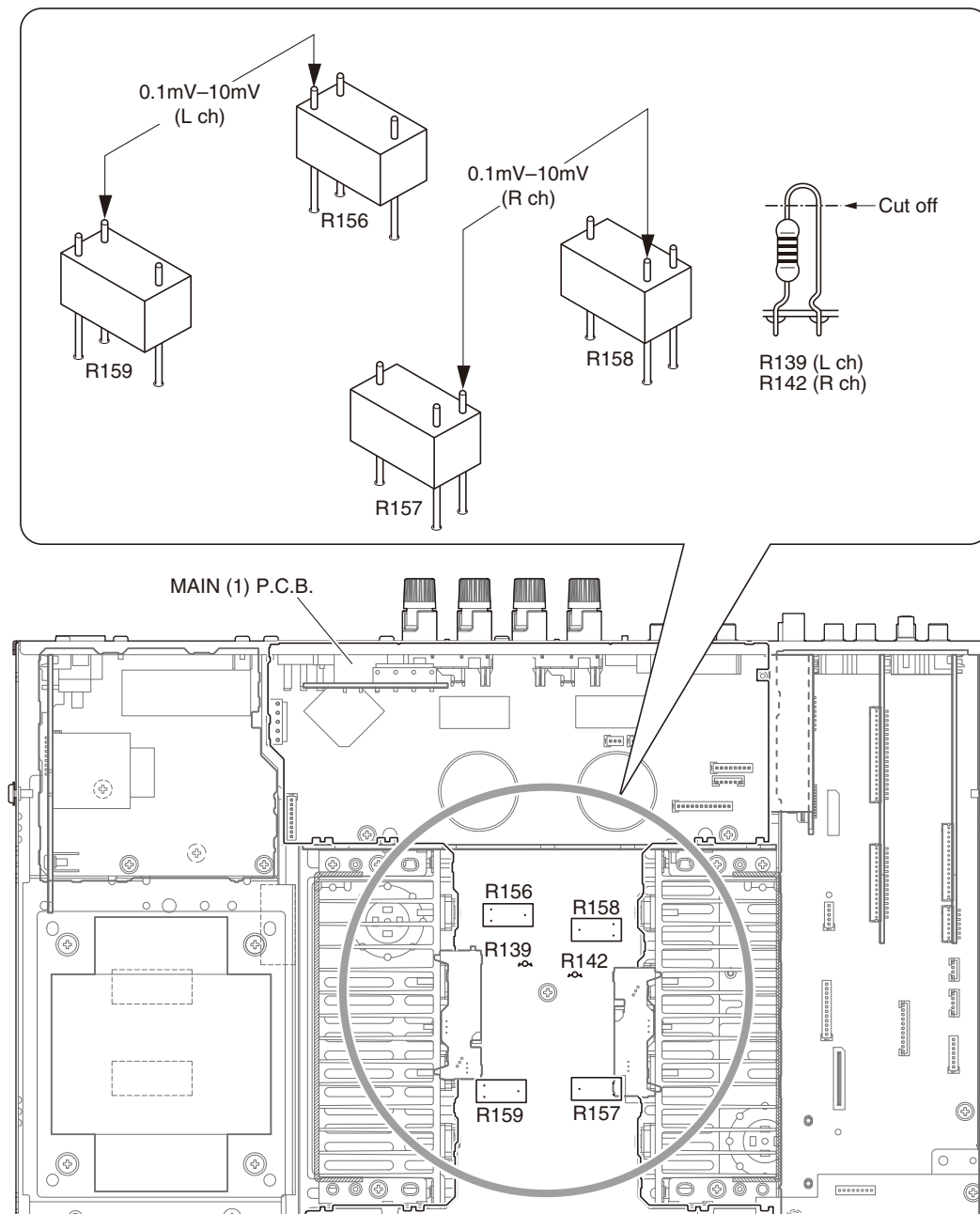
● CONFIRMATION OF IDLING CURRENT

1. Right after power is turned on, confirm that the voltage across the terminals of R156–R159 (L ch) and R157–R158 (R ch) are between 0.1 mV and 10 mV.
2. If measured voltage exceeds 10 mV, open (cut off) R139 (L ch), R142 (R ch) and reconfirm the voltage.

Attention

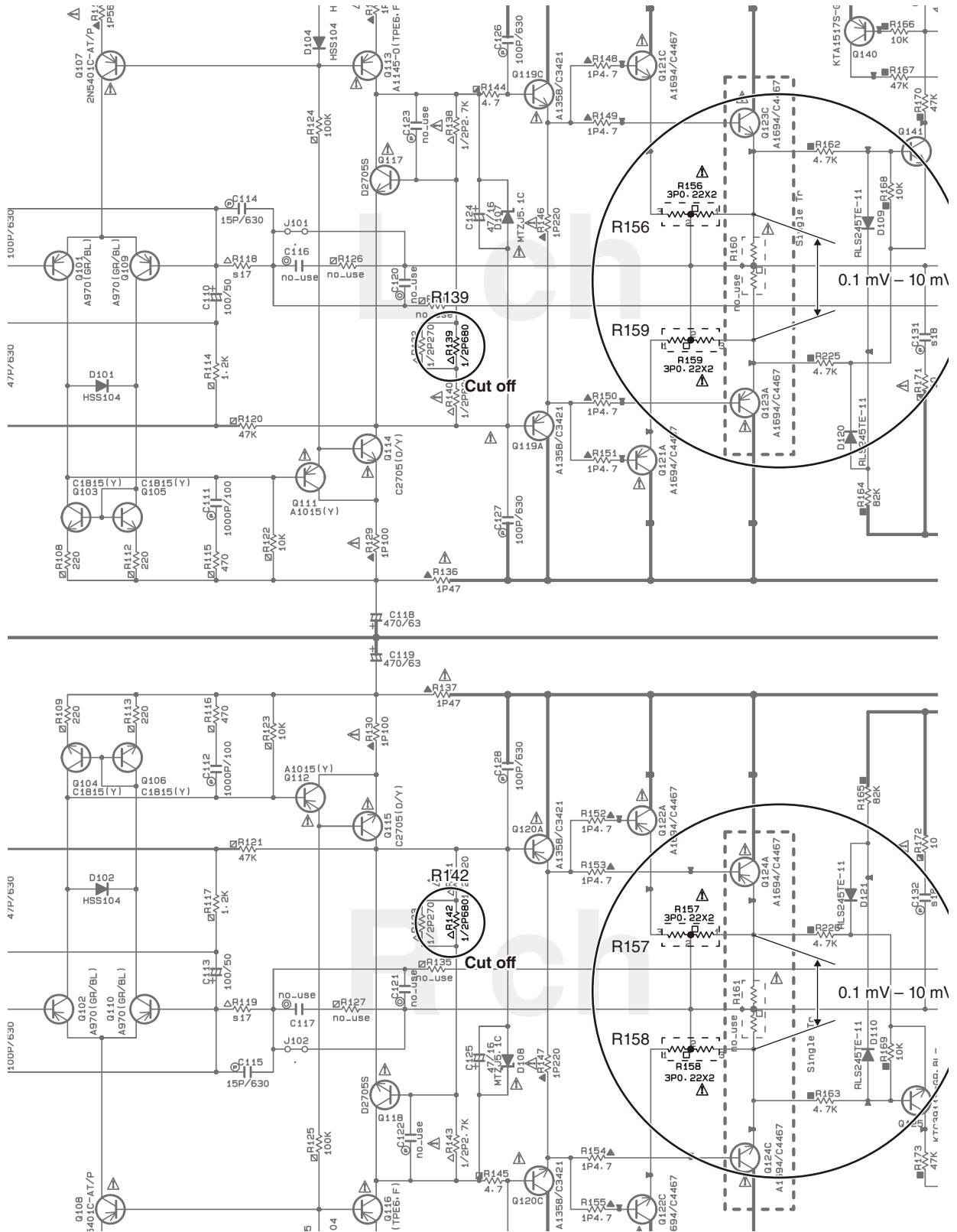
If the measured voltage exceeds 10 mV after repairing the power amplifier, check other parts again for any possible defect before cutting the resistor.

3. Confirm that the voltage is between 0.2 mV and 15 mV after 60 minutes.



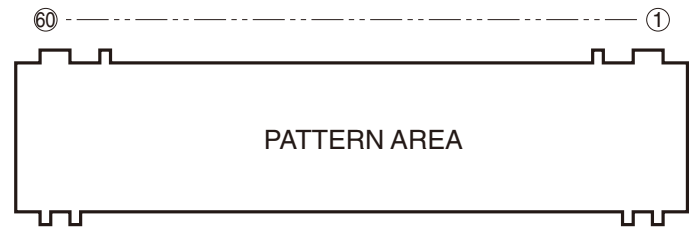
SCHEMATIC DIAGRAM

MAIN (1)



■ DISPLAY DATA

● V701 : 16-BT-164GNK (OPERATION P.C.B.)



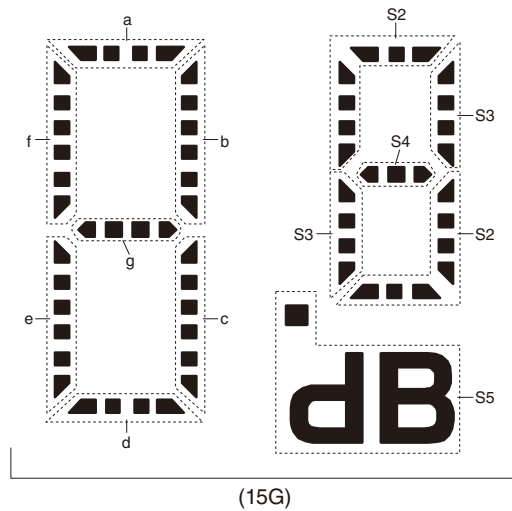
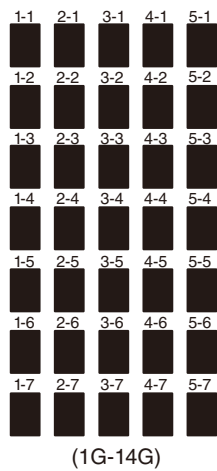
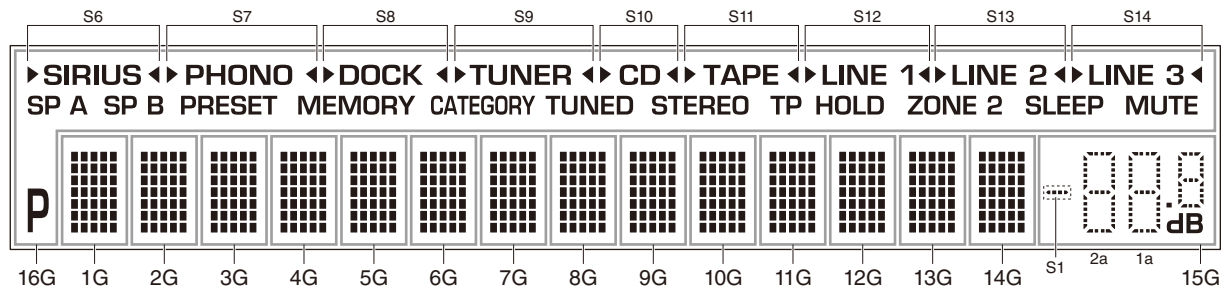
● PIN CONNECTION

Pin No.	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
Connection	F2	NX	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31

Pin No.	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Connection	P32	P33	P34	P35	NX	16G	15G	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	NX	F1

Note : 1) F1, F2 Filament pin 2) NP No pin 3) NX No extend pin 4) DL Datum line 5) 1G-16G Grid pin

● GRID ASSIGNMENT

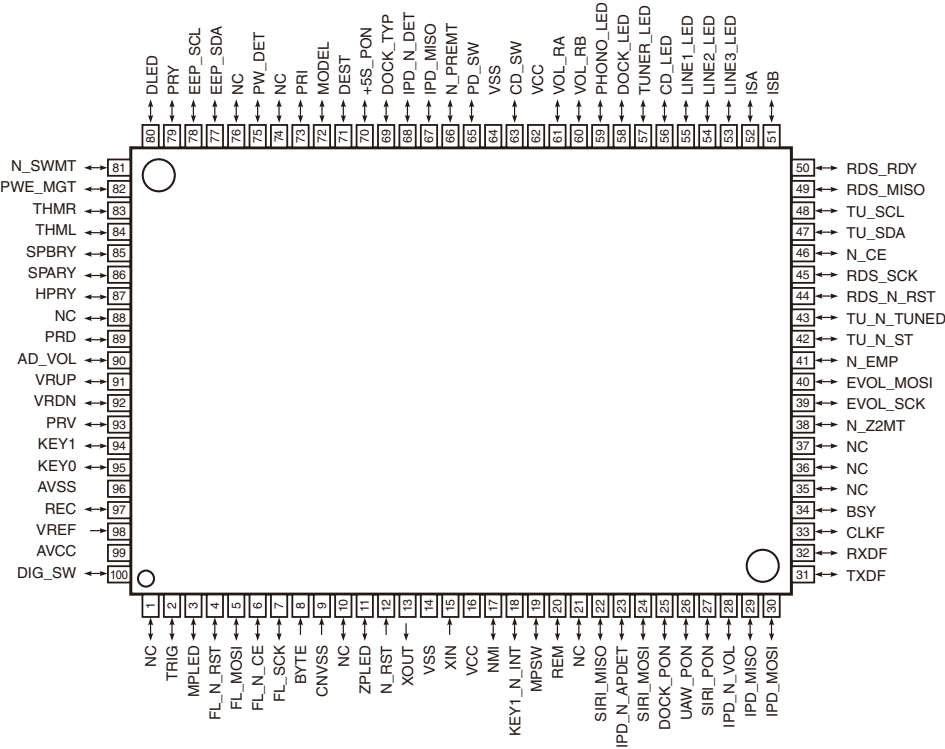
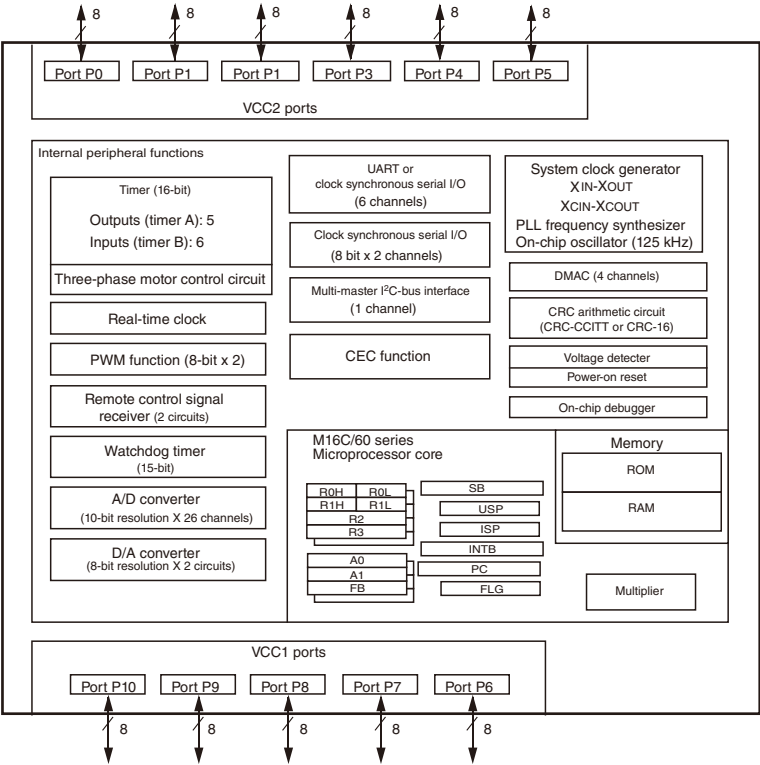


● ANODE CONNECTION

	1G-14G	15G	16G
P1	1-1	—	SP A
P2	2-1	—	SP B
P3	3-1	—	PRESET
P4	4-1	—	MEMORY
P5	5-1	—	CATEGORY
P6	1-2	—	TUNED
P7	2-2	—	STEREO
P8	3-2	—	TP
P9	4-2	—	HOLD
P10	5-2	S1	ZONE 2
P11	1-3	2a	SLEEP
P12	2-3	1a	MUTE
P13	3-3	2f	S6
P14	4-3	1f	SIRIUS
P15	5-3	2b	S7
P16	1-4	1b	PHONO
P17	2-4	2g	S8
P18	3-4	1g	DOCK
P19	4-4	2e	S9
P20	5-4	1e	TUNER
P21	1-5	2c	S10
P22	2-5	1c	CD
P23	3-5	2d	S11
P24	4-5	1d	TAPE
P25	5-5	S2	S12
P26	1-6	S3	LINE 1
P27	2-6	S4	S13
P28	3-6	S5	LINE 2
P29	4-6	—	S14
P30	5-6	—	LINE 3
P31	1-7	—	P
P32	2-7	—	—
P33	3-7	—	—
P34	4-7	—	—
P35	5-7	—	—

IC DATA

IC502: R5F364AENFA (FUNCTION P.C.B.)
Single chip 16-bit microprocessor



Pin No.	Port Name	Function Name (P.C.B.)	I/O			Detail of Function
			Power On	Standby	MCU Sleep [AC OFF]	
1	P9_6/ANEX1/SOUT4	NC	O	O	O	
2	P9_5/ANEX0/CLK4	TRIG	O	O	O	CONTROL +12V control
3	P9_4/DA1/TB4IN	MPLED	O	O	O	LED control for MAIN POWER ON display
4	P9_3/DA0/TB3IN	FL_N_RST	O	O	O	FL initial clear control
5	P9_2/TB2IN/SOUT3	FL_MOSI	SO	O	O	FL communication serial data
6	P9_1/TB1IN/SIN3	FL_N_CE	O	O	O	FL communication chip select
7	P9_0/TB0IN/CLK3	FL_SCK	SO	O	O	FL communication serial clock
8	BYTE	BYTE	MCU	MCU	MCU	Connect to Vss when in the single chip mode (External data bus width change: 16 bit) Low: processor mode select: single chip mode Hi: To the FLASH included boot mode
9	CNVss	CNVSS	MCU	MCU	MCU	
10	P8_7/XCIN	NC	O	O	O	
11	P8_6/XCOUT	ZPLED	O	O	O	
12	RESET	N_RST	MCU	MCU	MCU	Reset input
13	Xout	XOUT	MCU	MCU	MCU	Main clock 20MHz output
14	Vss	VSS	MCU	MCU	MCU	
15	Xin	XIN	MCU	MCU	MCU	Main clock 20MHz input
16	Vcc1	VCC	MCU	MCU	MCU	
17	P8_5/NMI/SD * Nch Open Drain	NMI	MCU	MCU	MCU	Unused, Pull Up
18	P8_4/INT2/ZP	KEY1_N_INT	IRQ	IRQ	I	Tuner control SW/ZONE2 POWER SW detection interrupt input With this interrupt, the KEY 1 voltage is read
19	P8_3/INT1	MPSW	I	IRQ	I	MAIN POWER SW detection interrupt input
20	P8_2/INT0	REM	IRQ	IRQ	I	Remote control pulse input detection interrupt input
21	P8_1/TA4IN/U/CTS5/ RTS5	NC	O	O	O	Free terminal
22	P8_0/TA4OUT/U// RXD5/SCL5	SIRI_MISO	SI	O	O	SIRIUS UART communication
23	P7_7/TA3IN/CLK5	IPD_N_APDET	I	I	I	iPod accessory power control
24	P7_6/TA3OUT/TXD5/ SDA5	SIRI_MOSI	SO	O	O	SIRIUS UART communication
25	P7_5/TA2IN/W	DOCK_PON	O	O	O	DOCK power supply ON/OFF control Hi = ON, Low = Off
26	P7_4/TA2OUT/W	UAW_PON	O	O	O	UAW power supply ON/OFF control Hi = ON, Low = Off
27	P7_3/CTS2/RTS2/ TA1IN/V	SIRI_PON	O	O	O	SIRIUS power supply ON/OFF control Hi = ON, Low = Off
28	P7_2/CLK2/TA1OUT/ V	IPD_N_VON	O	O	O	iPod video signal ON/OFF control
29	P7_1/RXD2/SCL2/ TA0IN/TB5IN * Nch Open Drain	IPD_MISO	SI	IRQ	I	iPod UART communication iPod communication detection interrupt input when in the standby mode
30	P7_0/TXD2/SDA2/ * Nch Open Drain	IPD_MOSI	SO	O	O	iPod UART communication
31	P6_7/TXD1/SDA1	TXDF	SO	SO	[MCU]	For easy emulation For writing FLASH (Rx)
32	P6_6/RXD1/SCL1	RXDF	SI	SI	[MCU]	For easy emulation For writing FLASH (Tx)
33	P6_5/CLK1	CLKF	SO	SO	[MCU]	For easy emulation For writing FLASH (Clock)
34	P6_4/CTS1/RTS1/ CTS0/CLKS1	BSY	O	O	[MCU]	For easy emulation BUSY signal output for writing FLASH
35	P6_3/TXD0/SDA0	NC	O	O	O	
36	P6_2/RXD0/SCL0	NC	O	O	O	
37	P6_1/CLK0	NC	O	O	O	
38	P6_0/CTS0/RTS0	N_Z2MT	O	O	O	ZONE2 MUTE control Low = MUTE ON
39	P5_7/RDY/CLKOUT	EVOL_SCK	O	O	O	Electronic VOLUME control serial clock
40	P5_6/ALE	EVOL_MOSI	O	O	O	Electronic VOLUME control serial data
41	P5_5/HOLD	N_EPM	I	-	-	For writing FLASH (Low) Pull it down as it may fall in the Hiz state while the emulator is working
42	P5_4/HLDA	TU_N_ST	I	I	I	TUNER STEREO detection input
43	P5_3/BCLK	TU_N_TUNED	I	I	I	TUNER TUNED input
44	P5_2/RD	RDS_N_RST	O	O	O	RDS preset control
45	P5_1/WRH/BHE	RDS_SCK	O	O	O	Serial clock for RDS communication
46	P5_0/WRL/WR	N_CE	I	-	-	For writing FLASH (Hi)
47	P4_7/TXD7/SDA7/ /CS3	TU_SDA	SIO	O	O	TUNER communication I2C bus data
48	P4_6/RXD7/SCL7/ CS2	TU_SCL	SO	O	O	TUNER communication I2C bus clock
49	P4_5/CLK7/CS1	RDS_MISO	I	I	I	Serial data for RDS communication
50	P4_4/CTS7/RTS7/ CS0	RDS_RDY	I	I	I	RDS READY input terminal
51	P4_3/A19	ISB	I	I	I	Encoder phase detection input/output for Input selector
52	P4_2/A18	ISA	I	I	I	Encoder phase detection input/output for Input selector
53	P4_1/A17	LINE3_LED	O	O	O	
54	P4_0/A16	LINE2_LED	O	O	O	
55	P3_7/A15	LINE1_LED	O	O	O	
56	P3_6/A14	CD_LED	O	O	O	
57	P3_5/A13	TUNER_LED	O	O	O	
58	P3_4/A12	DOCK_LED	O	O	O	
59	P3_3/A11	PHONO_LED	O	O	O	
60	P3_2/A10	VOL_RB	I	I	I	Encoder input for VOLUME UP/DOWN
61	P3_1/A9	VOL_RA	I	I	I	Encoder input for VOLUME UP/DOWN

Pin No.	Port Name	Function Name (P.C.B.)	I/O			Detail of Function
			Power On	Standby	MCU Sleep [AC OFF]	
62	Vcc2	VCC	MCU	MCU	MCU	
63	P3_0/A8	CD_SW	I	I	I	CD Direct detection
64	Vss	VSS	MCU	MCU	MCU	
65	P2_7/AN2_7/A7	PD_SW	I	I	I	Pure Direct detection
66	P2_6/AN2_6/A6	N_PREMT	O	O	O	PRE OUT MUTE control Low = MUTE ON
67	P2_5/INT7/AN2_5/A5	IPD_MISO	IRQ	IRQ	IRQ	iPod communication detection interrupt input when in the standby mode (Used when 29 pin common terminal is not available)
68	P2_4/INT6/AN2_4/A4	IPD_DET	IRQ	IRQ	IRQ	iPod detection interrupt input
69	P2_3/AN2_3/A3	DOCK_TYPE	AD	AD	AD	Equipment type detection AD value input
70	P2_2/AN2_2/A2	+5S_PON	O	O	O	+5S drive control
71	P2_1/AN2_1/A1	DEST	AD	AD	AD	Destination discrimination AD value input
72	P2_0/AN2_0/A0	MODEL	AD	AD	AD	MODEL discrimination AD value input
73	P1_7/INT5/D15	PRI	IRQ	IRQ	IRQ	POWER AMP current protection detection interrupt input Low = Normal, Hi = Abnormal
74	P1_6/INT4/D14	NC	O	O	O	Free terminal
75	P1_5/INT3/D13	PW_DET	IRQ	IRQ	IRQ	PW_DET detection interrupt input
76	P1_4/D12	NC	O	O	O	Free terminal
77	P1_3/TXD6/SDA6/D11	EEP_SDA	SO	O	O	EEPROM I2C communication bus data
78	P1_2/RXD6/SCL6/D10	EEP_SCL	SO	O	O	EEPROM I2C communication bus clock
79	P1_1/CLK6/D9	PRY	O	O	O	Power relay control
80	P1_0/CTS6/RTS6/D8	DLED	O	O	O	Direct LED power supply control
81	P0_7/ANO_7/D7	N_SWMT	O	O	O	SUBWOOFER MUTE control Low = MUTE ON
82	P0_6/ANO_6/D6	PWR_MGT	I	I	I	Power management detection input
83	P0_5/ANO_5/D5	THMR	AD	AD	AD	Right-hand side heatsink temperature detection AD value input
84	P0_4/ANO_4/D4	THML	AD	AD	AD	Left-hand side heatsink temperature detection AD value input
85	P0_3/ANO_3/D3	SPBRY	O	O	O	Speaker B relay control
86	P0_2/ANO_2/D2	SPARY	O	O	O	Speaker A relay control
87	P0_1/ANO_1/D1	HPRY	O	O	O	Headphone relay control
88	P0_0/ANO_0/D0	NC	O	O	O	Free terminal
89	P10_7/AN7/K13	PRD	AD	AD	AD	DC protection detection
90	P10_6/AN6/K12	AD_VOL	AD	AD	AD	
91	P10_5/AN5/K11	VRUP	O	O	O	
92	P10_4/AN4/K10	VRDN	O	O	O	
93	P10_3/AN3	PRV	AD	AD	AD	Protection voltage detection AD value taken input
94	P10_2/AN2	KEY1	AD	AD	AD	KEY1 AD value taken input
95	P10_1/AN1	KEY0	AD	AD	AD	
96	Avss	AVSS	MCU	MCU	MCU	
97	P10_0/ANO0	REC	AD	AD	AD	REC OUT selector voltage detection AD value taken input
98	Vref	VREF	MCU	MCU	MCU	
99	Avcc	AVCC	MCU	MCU	MCU	
100	P9_7/ADTRG/SIN4	DIG_SW	I	I	I	DIG_SW input

Key detection for A/D port

Key input (A/D) pull-up resistance 10 k-ohms

Ohm	0	+ 1.0 k	+ 1.0 k	+ 1.5 k	+ 2.2 k	+ 3.3 k	+ 4.7 k
V	0 – 0.22	0.23 – 0.64	0.65 – 1.06	1.07 – 1.55	1.56 – 2.09	2.10 – 2.62	2.63 – 3.94
A/D conversion value (5.0 V=255)	0 – 11	12 – 32	33 – 54	55 – 79	80 – 107	108 – 134	135 – 156
KEY0 (95 pin of the microprocessor)	DIMMER (U, C, R, A models)	FM MODE INFO (U, C, R, A models)	MEMORY	CLEAR	ZONE2 CONTROL (U, C, A models)	SPEAKERS A	SPEAKERS B
	TP (G model)	INFO (G model)					

Ohm	0	+ 1.0 k	+ 1.0 k	+ 1.5 k	+ 2.2 k	+ 3.3 k	+ 4.7 k
V	0 – 0.22	0.23 – 0.64	0.65 – 1.06	1.07 – 1.55	1.56 – 2.09	2.10 – 2.62	2.63 – 3.94
A/D conversion value (5.0 V=255)	0 – 11	12 – 32	33 – 54	55 – 79	80 – 107	108 – 134	135 – 156
KEY1 (94 pin of the microprocessor)	PRESET <	PRESET >	FM	AM	TUNING/CH << (U model)	TUNING/CH >> (U model)	ZONE 2 (U, C, A models)
					TUNING << (C, R, A, G models)	TUNING >> (C, R, A, G models)	

Destination detection for AD port

Pull-up resistance 10 k-ohms

R550 (FUNCTION P.C.B.)	820	1.5 k	2.7 k	12 k	33 k
V	0.15 – 0.49	0.5 – 0.84	0.85 – 1.88	1.89 – 3.29	3.3 – 4.47
Destination	U	C	R	A	G
A/D conversion value (5.0 V=255)	9 – 25	26 – 43	44 – 67	128 – 158	187 – 210

Model detection for A/D port

Model input (A/D) pull-up resistance 10 k-ohms

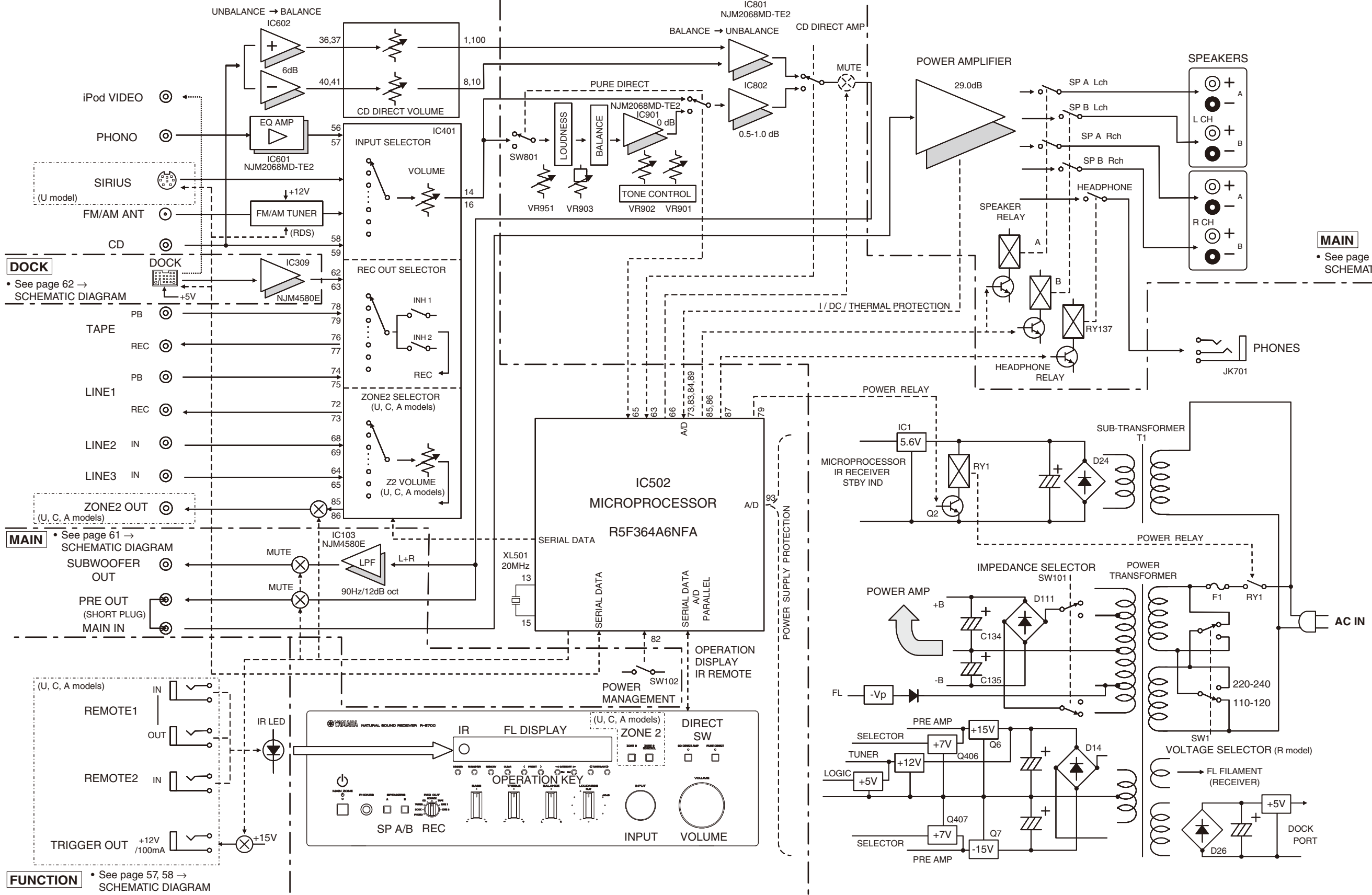
R516 (FUNCTION P.C.B.)	820
V	0.15 – 0.49
Model name	R7 (R-S700)
A/D conversion value (5.0 V=255)	8-25

1 ■ BLOCK DIAGRAM

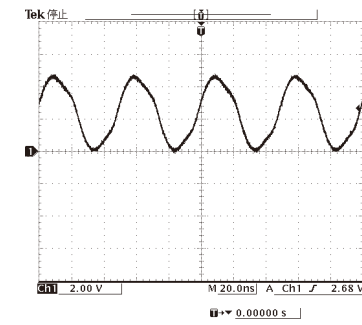
FUNCTION • See page 57, 58 → SCHEMATIC DIAGRAM

OPERATION • See page 59, 60 → SCHEMATIC DIAGRAM

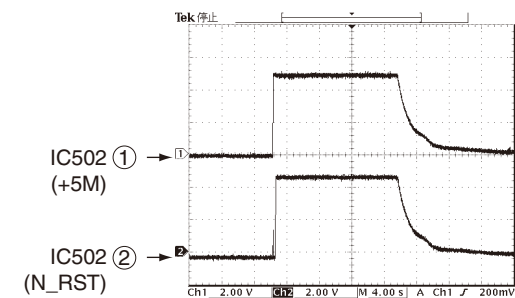
MAIN
• See page 61 → SCHEMATIC DIAGRAM



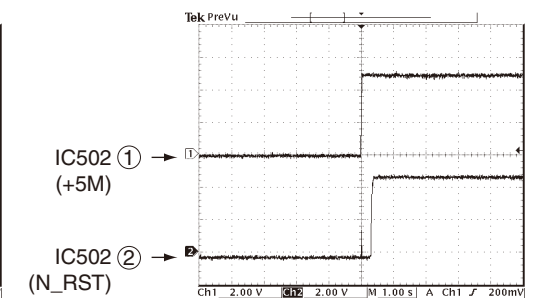
FUNCTION (1) P.C.B. (Side B)



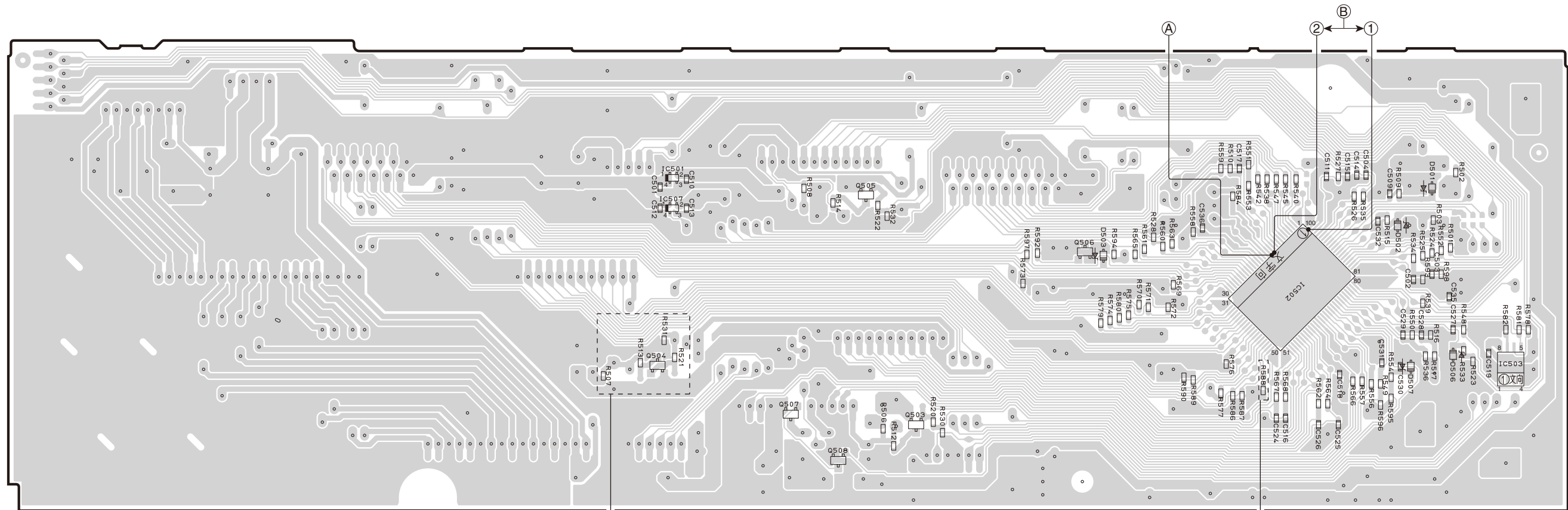
POINT ①/ IC502 (99 pin, +5M), ②/ IC502 (12 pin, N_RST)



AC POWER ON (Connect the power cable) AC POWER OFF (Disconnect the power cable)



AC POWER ON
(Connect the power cable)



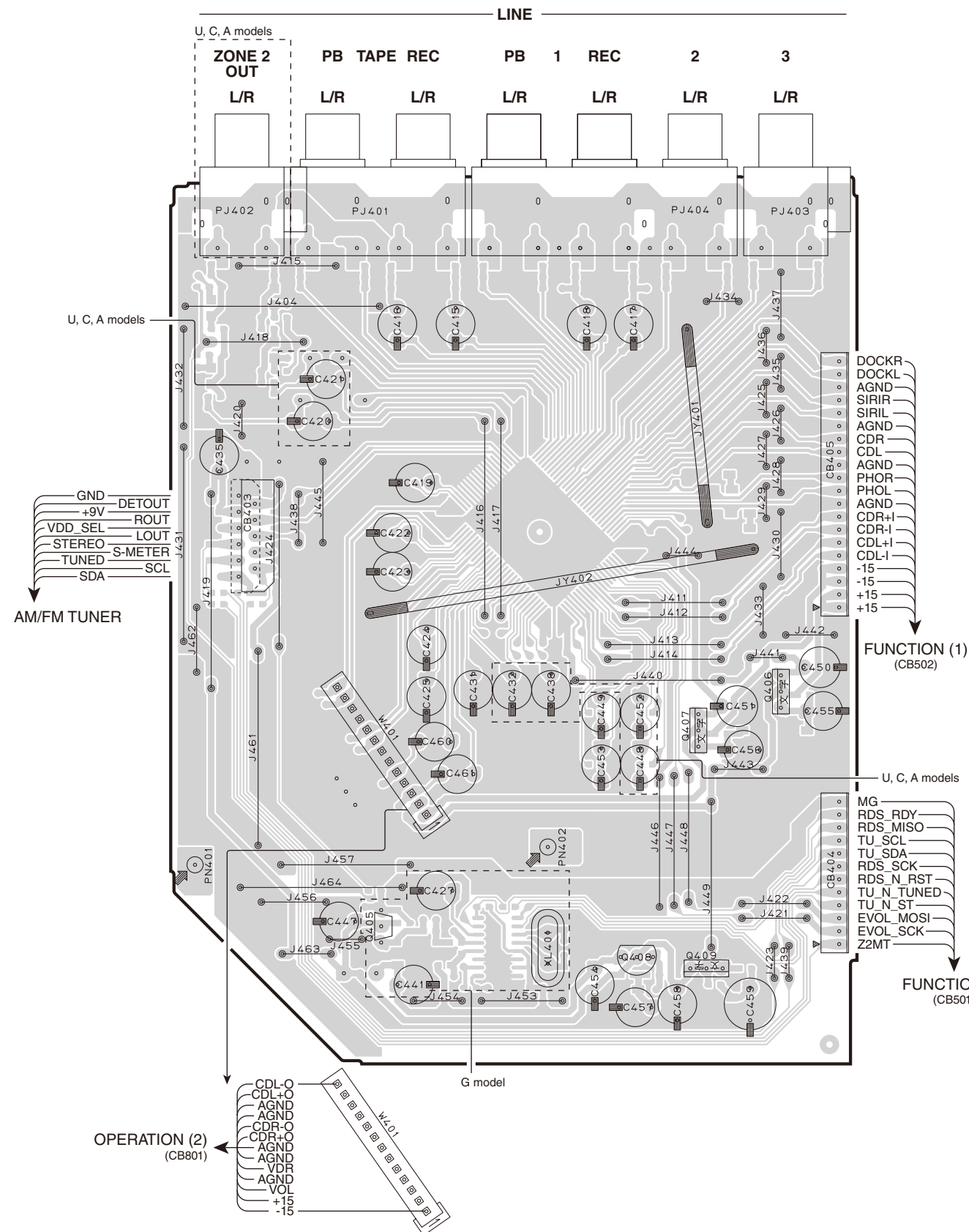
U, C, A models

G model

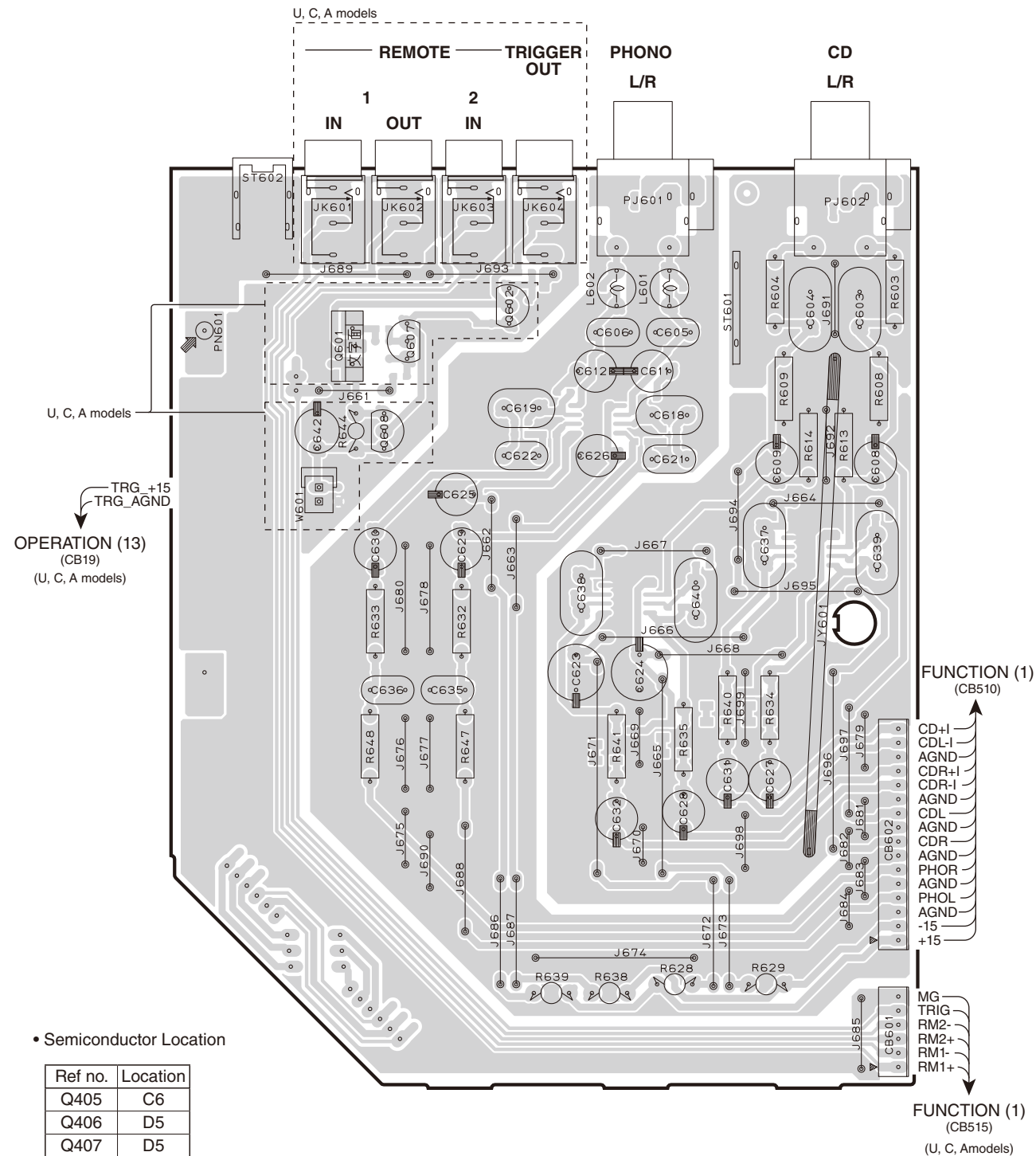
- Semiconductor Location

Ref no.	Location
D501	I3
D502	I4
D503	G4
D506	I4
D507	I4
IC501	E3
IC502	H4
IC503	I4
IC507	E3
Q503	F5
Q504	E4
Q505	F3
Q506	G4
Q507	E5
Q508	F5

FUNCTION (2) P.C.B. (Side A)



FUNCTION (3) P.C.B. (Side A)

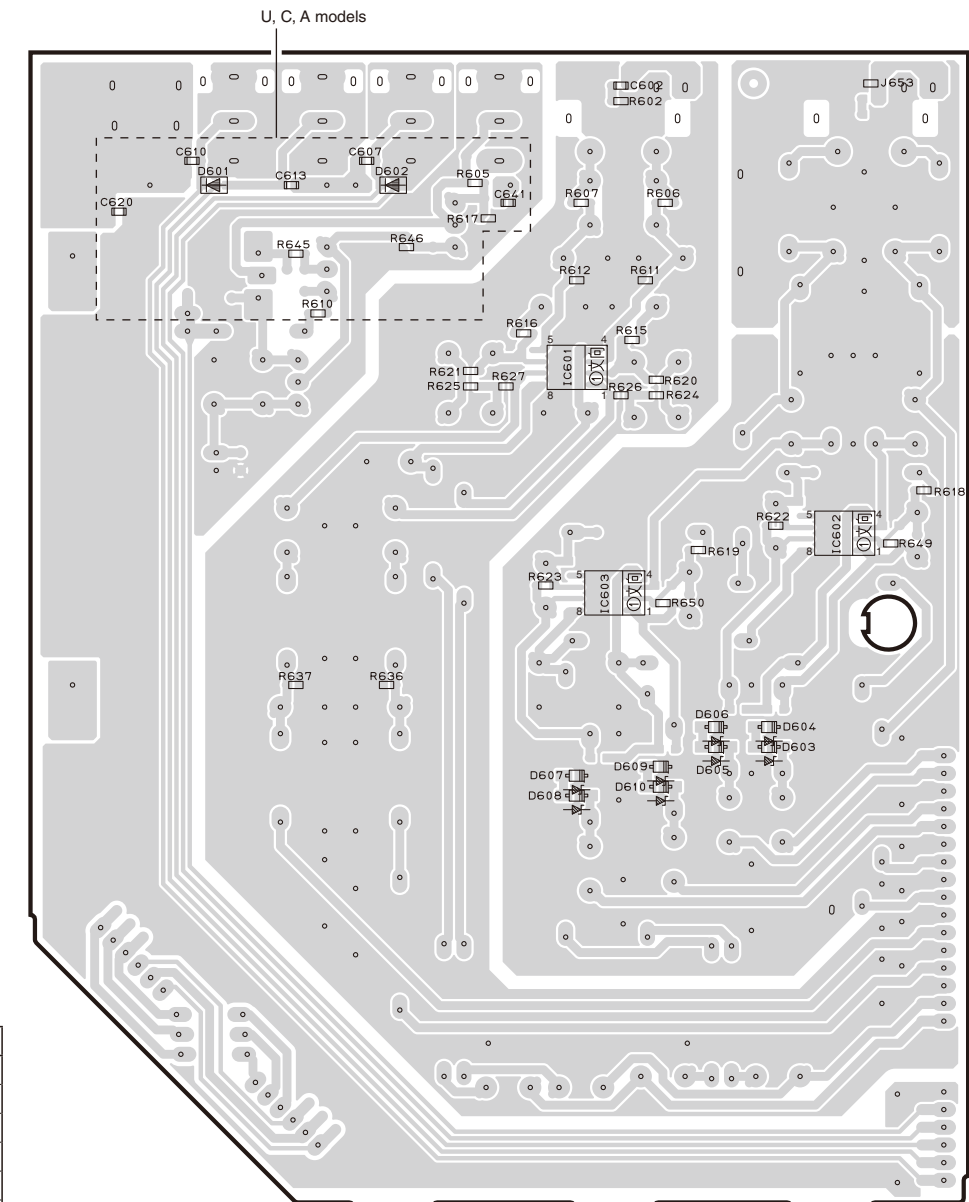
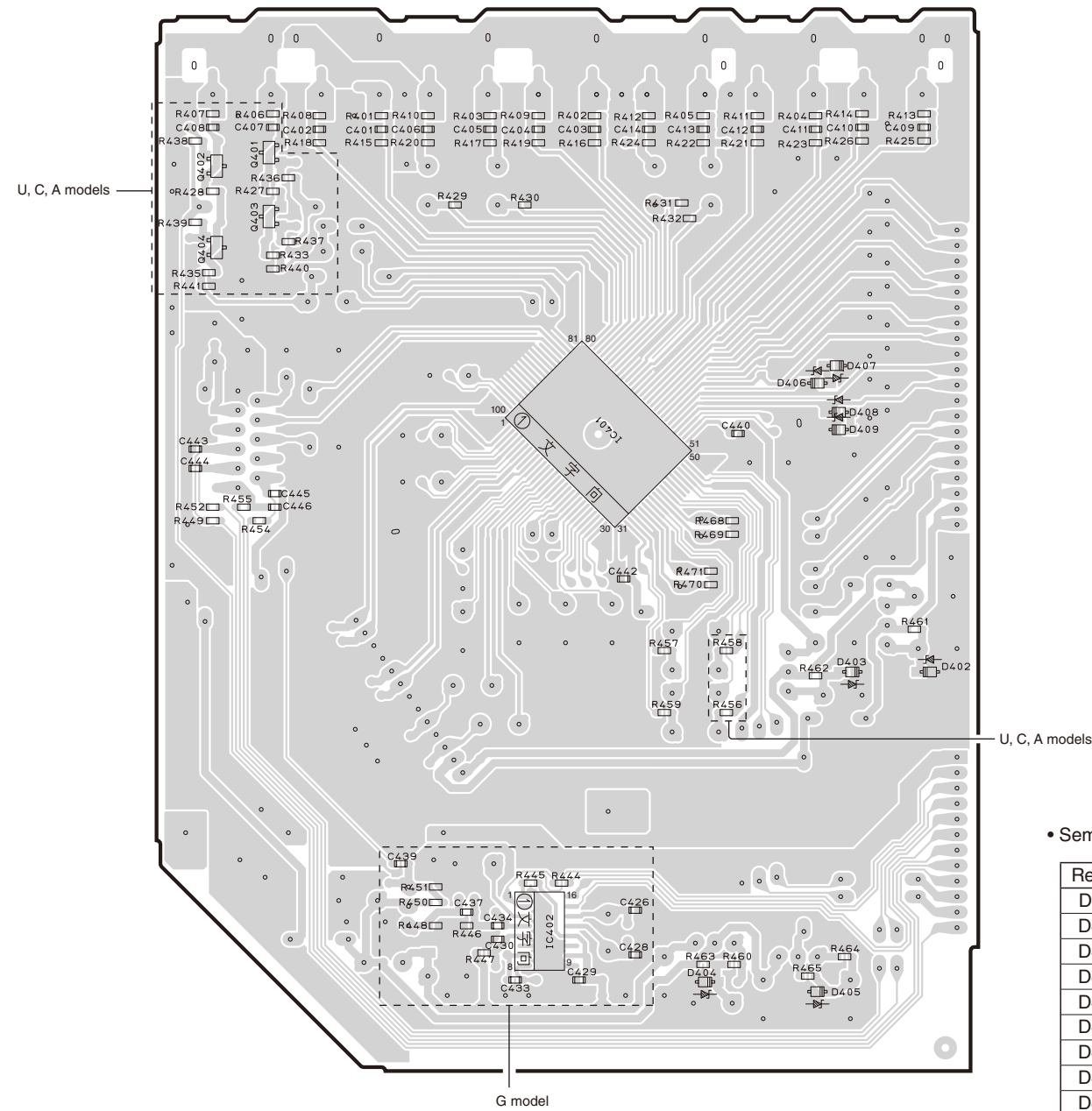


- Semiconductor Location

Ref no.	Location
Q405	C6
Q406	D5
Q407	D5
Q408	D6
Q409	D6
Q601	G3
Q602	H3
Q607	G3
Q608	G4

FUNCTION (2) P.C.B. (Side B)

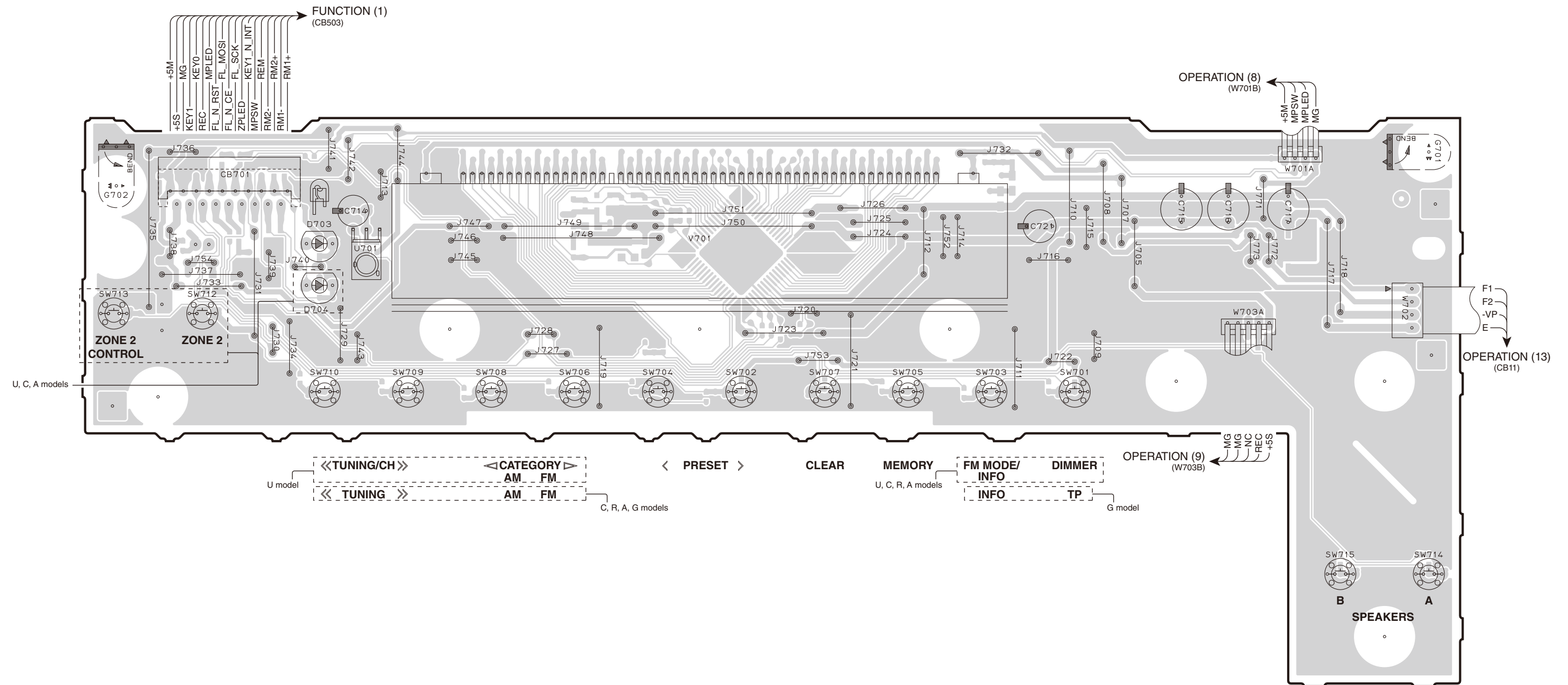
FUNCTION (3) P.C.B. (Side B)



- Semiconductor Location

Ref no.	Location	Ref no.	Location
D401	C6	D606	I5
D402	E5	D607	H5
D403	D5	D608	H5
D404	D6	D609	H5
D405	D6	D610	H5
D406	D4	IC401	C4
D407	D4	IC402	C6
D408	D4	IC601	H4
D409	D4	IC602	I4
D601	G3	IC603	H4
D602	G3	Q401	B3
D603	I5	Q402	B3
D604	I5	Q403	B3
D605	I5	Q404	B3

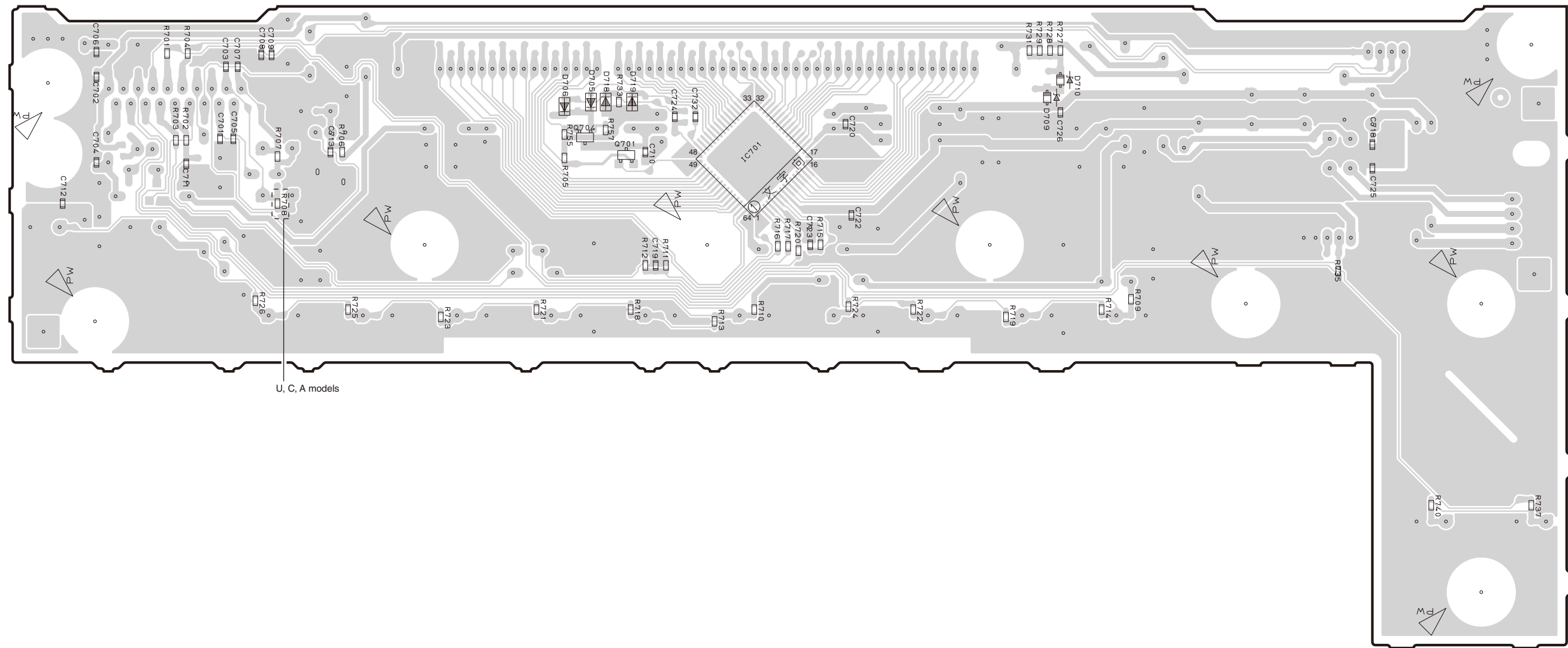
OPERATION (1) P.C.B. (Side A)



- Semiconductor Location

Ref no.	Location
D703	C3
D704	C3

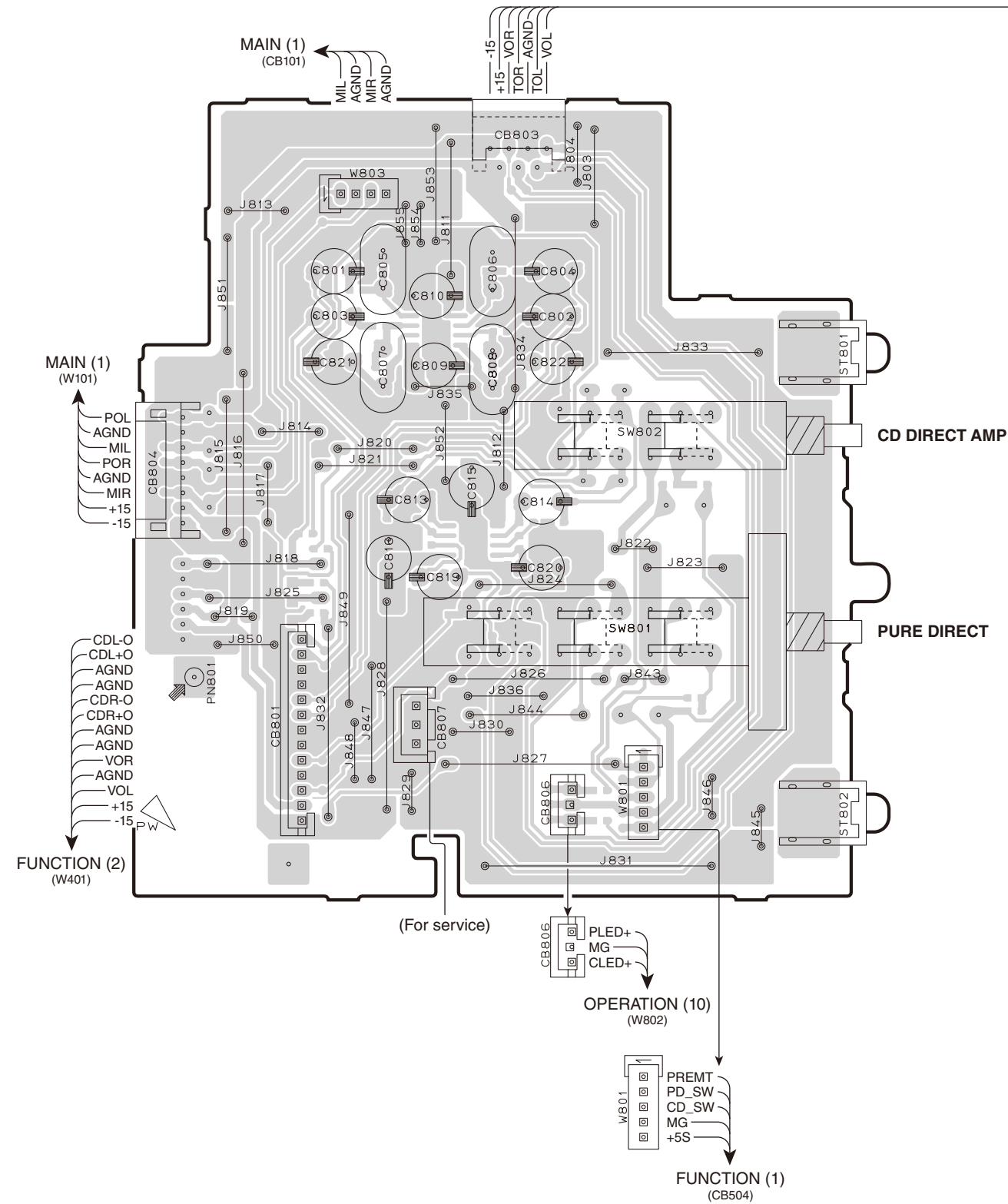
OPERATION (1) P.C.B. (Side B)



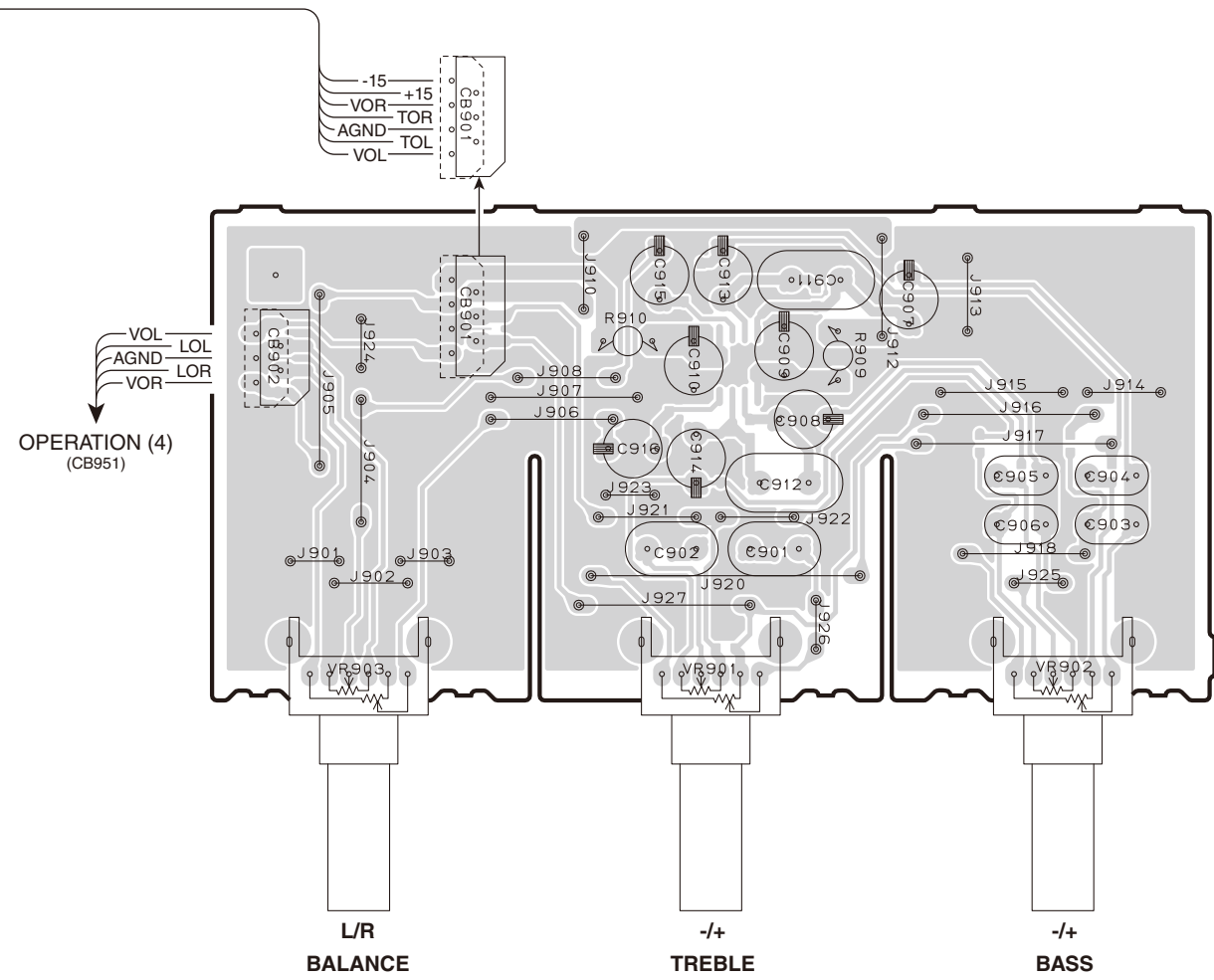
• Semiconductor Location

Ref no.	Location
D705	D3
D706	D3
D709	G3
D710	G3
D718	E3
D719	E3
IC701	E3
Q701	E3
Q704	D3

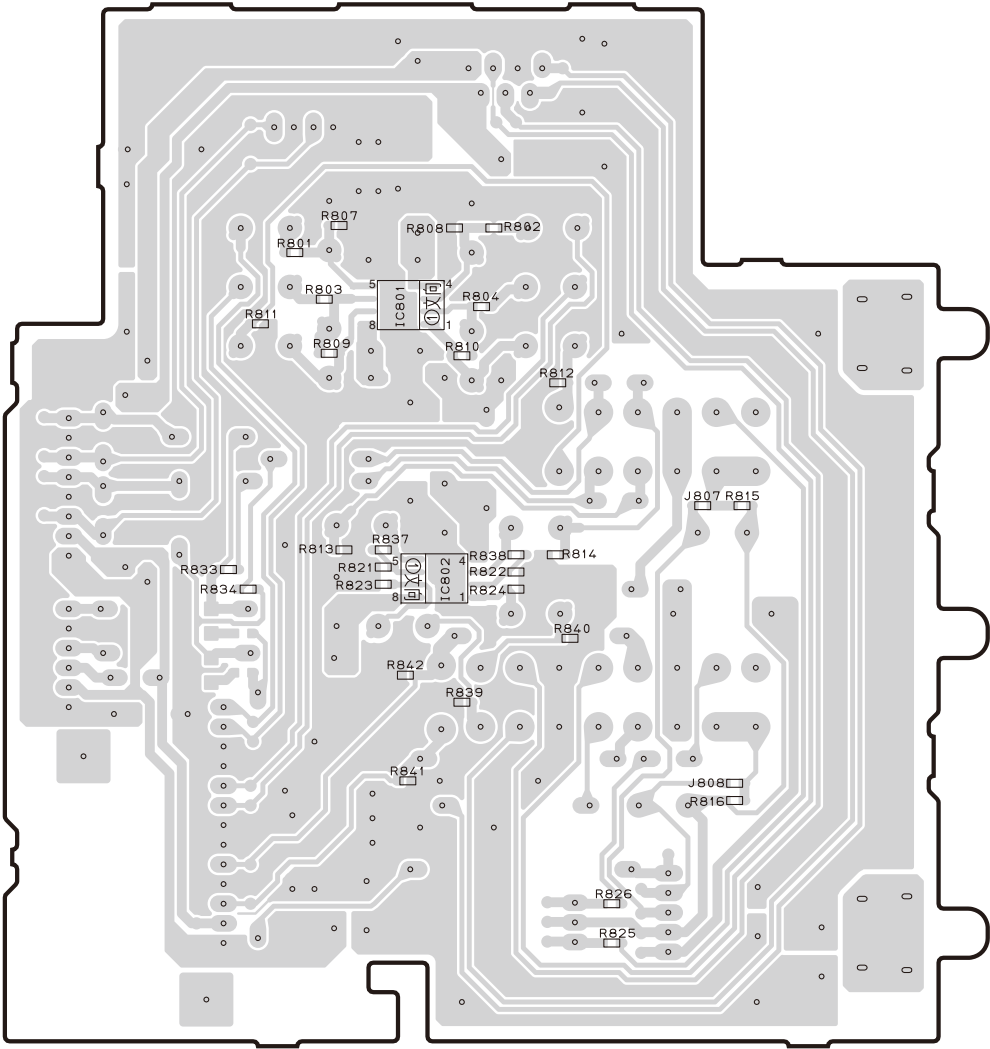
OPERATION (2) P.C.B. (Side A)



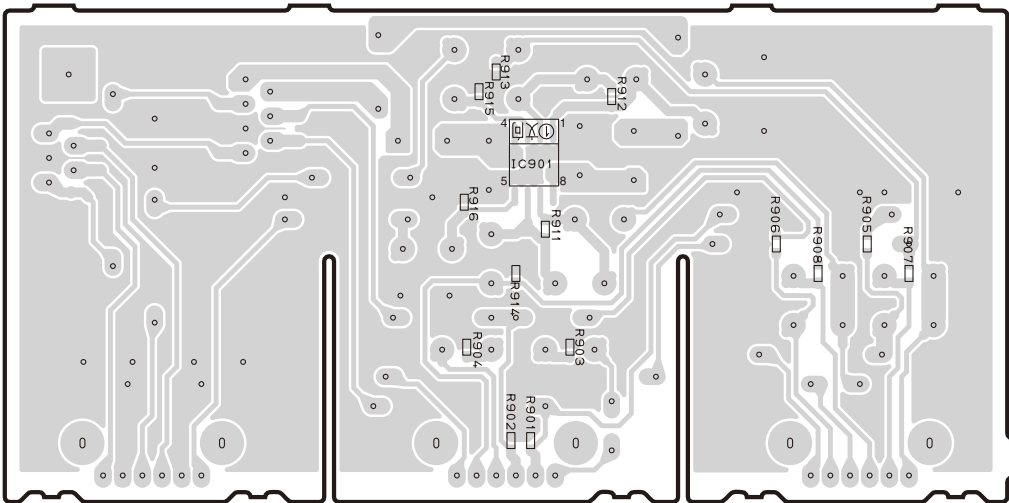
OPERATION (3) P.C.B. (Side A)



OPERATION (2) P.C.B. (Side B)



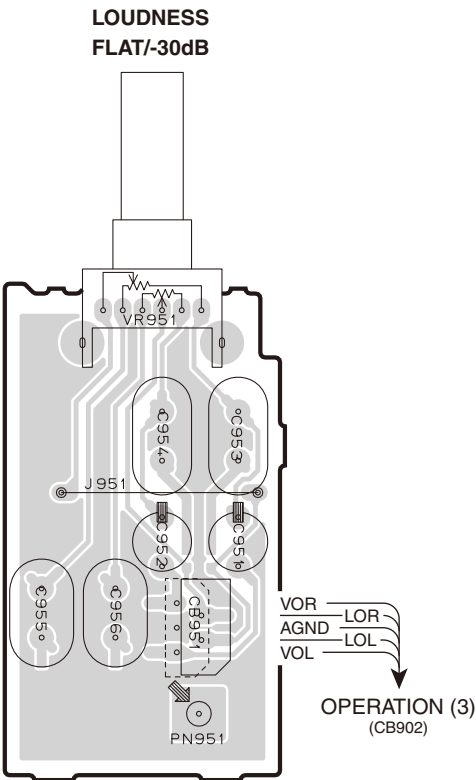
OPERATION (3) P.C.B. (Side B)



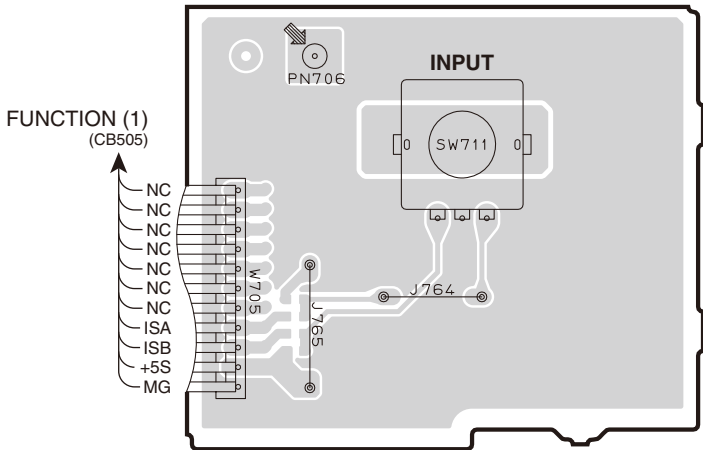
• Semiconductor Location

Ref no.	Location
IC801	C3
IC802	C4
IC901	H3

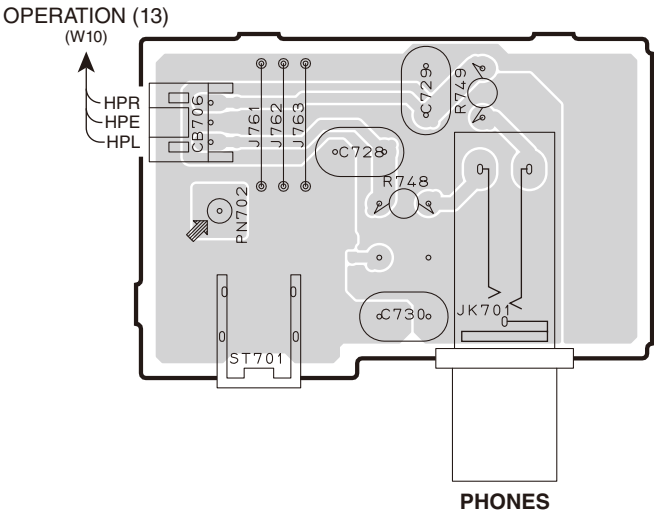
OPERATION (4) P.C.B. (Side A)



OPERATION (5) P.C.B. (Side A)



OPERATION (6) P.C.B. (Side A)



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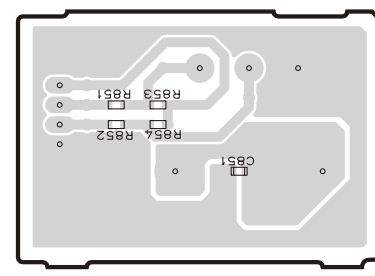
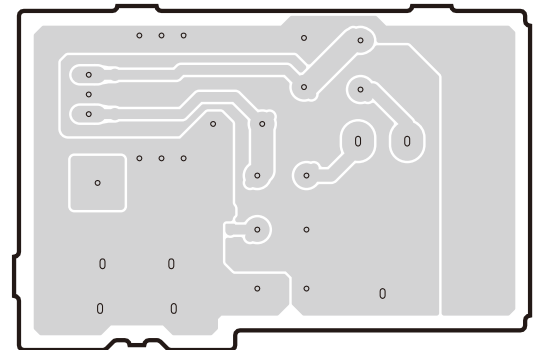
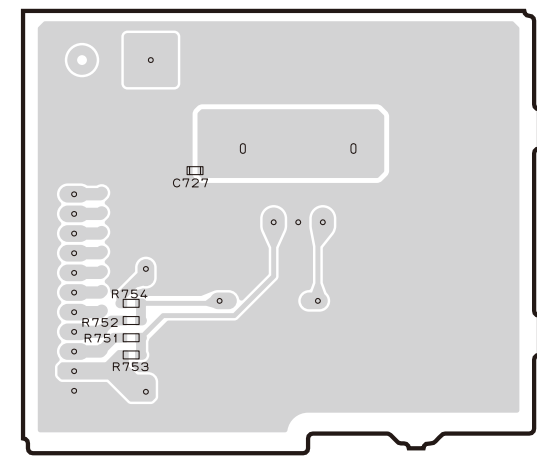
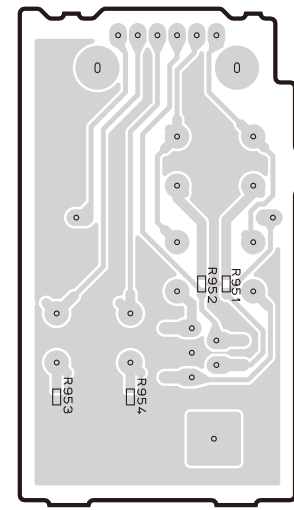
7

OPERATION (4) P.C.B. (Side B)

OPERATION (5) P.C.B. (Side B)

OPERATION (6) P.C.B. (Side B)

OPERATION (7) P.C.B. (Side B)

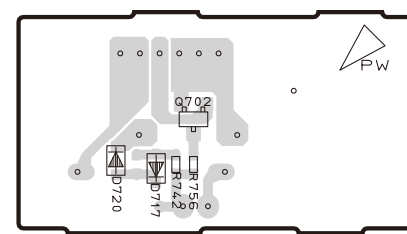
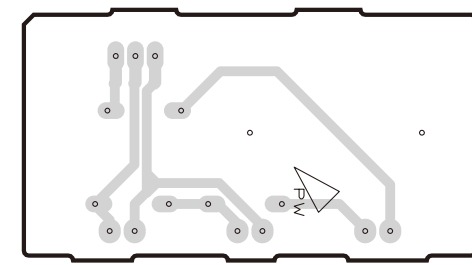
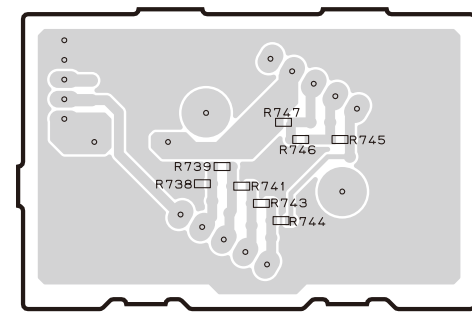
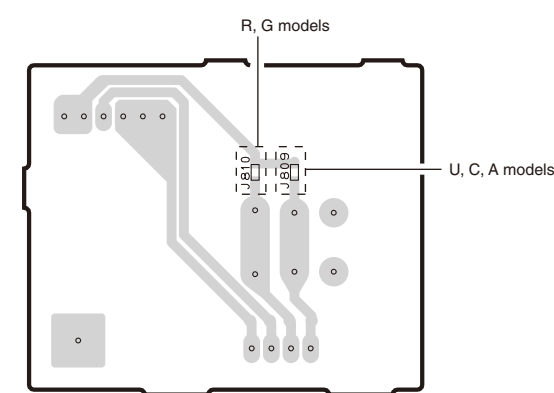


OPERATION (8) P.C.B. (Side B)

OPERATION (9) P.C.B. (Side B)

OPERATION (10) P.C.B. (Side B)

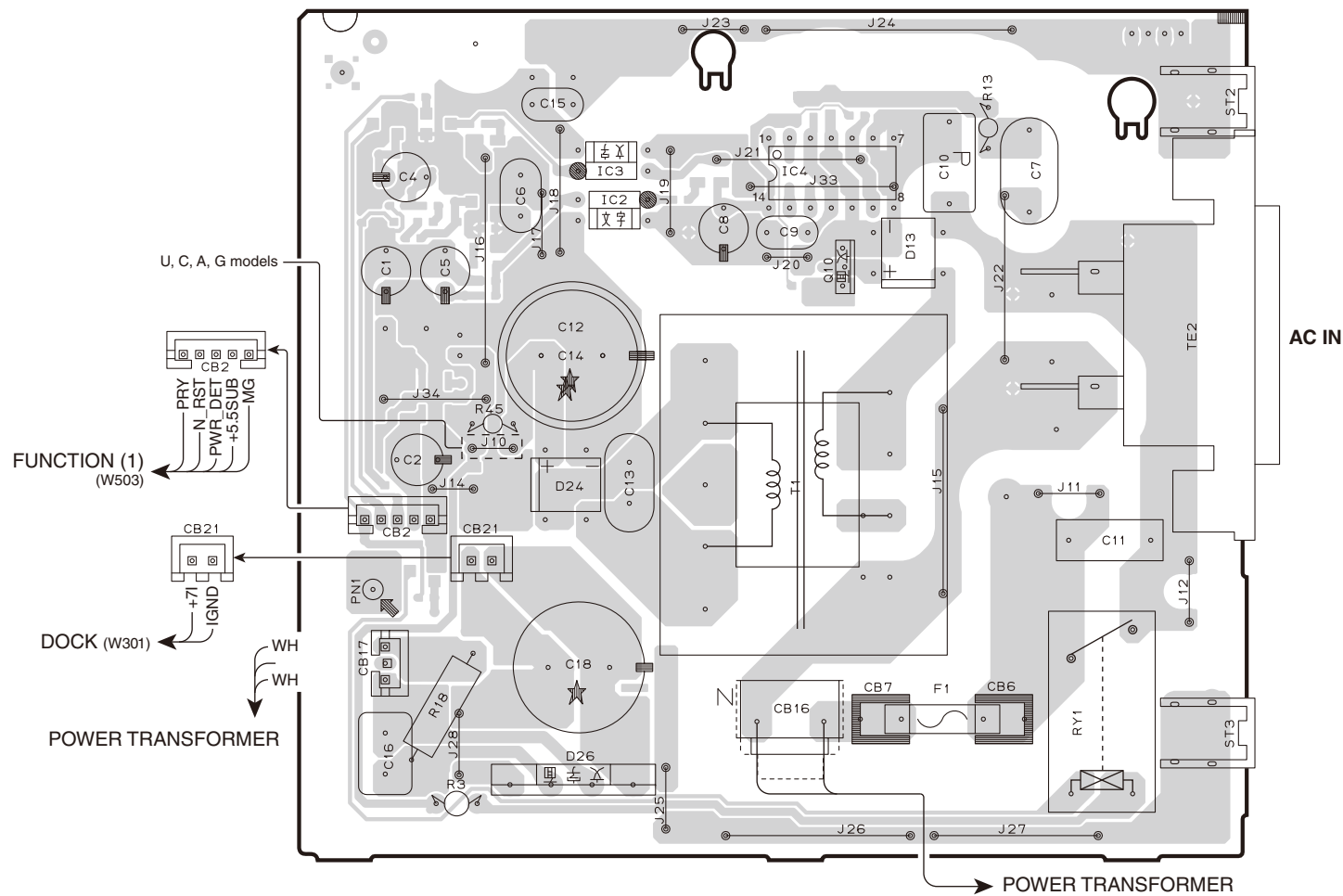
OPERATION (11) P.C.B. (Side B)



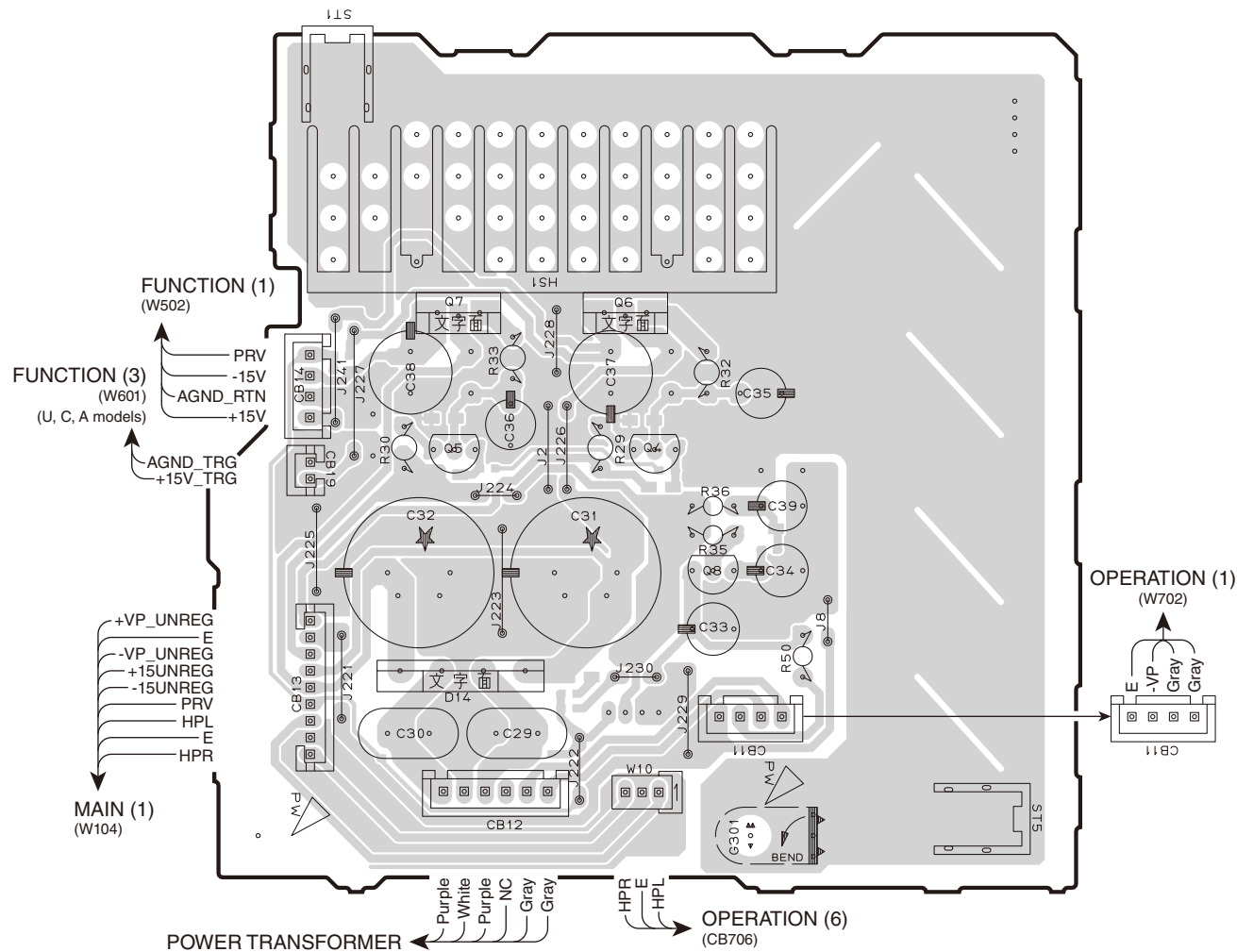
• Semiconductor Location

Ref no.	Location
D717	I6
D720	I6
Q702	I6

OPERATION (12) P.C.B. (Side A)

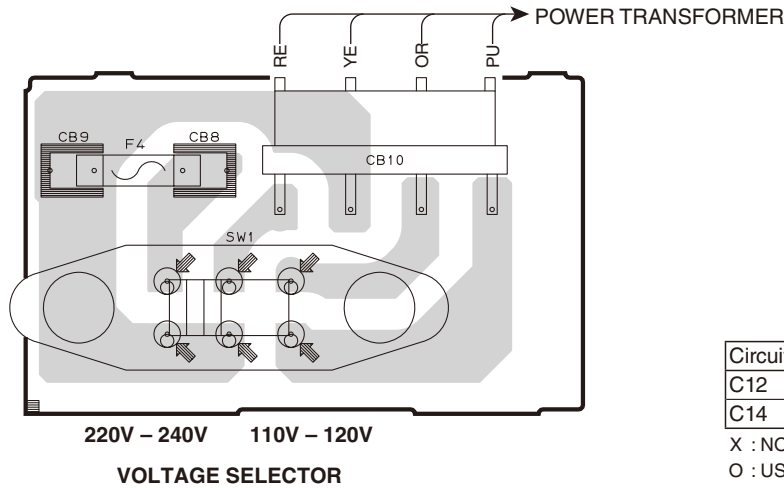


OPERATION (13) P.C.B. (Side A)



OPERATION (14) P.C.B. (Side A)

R model

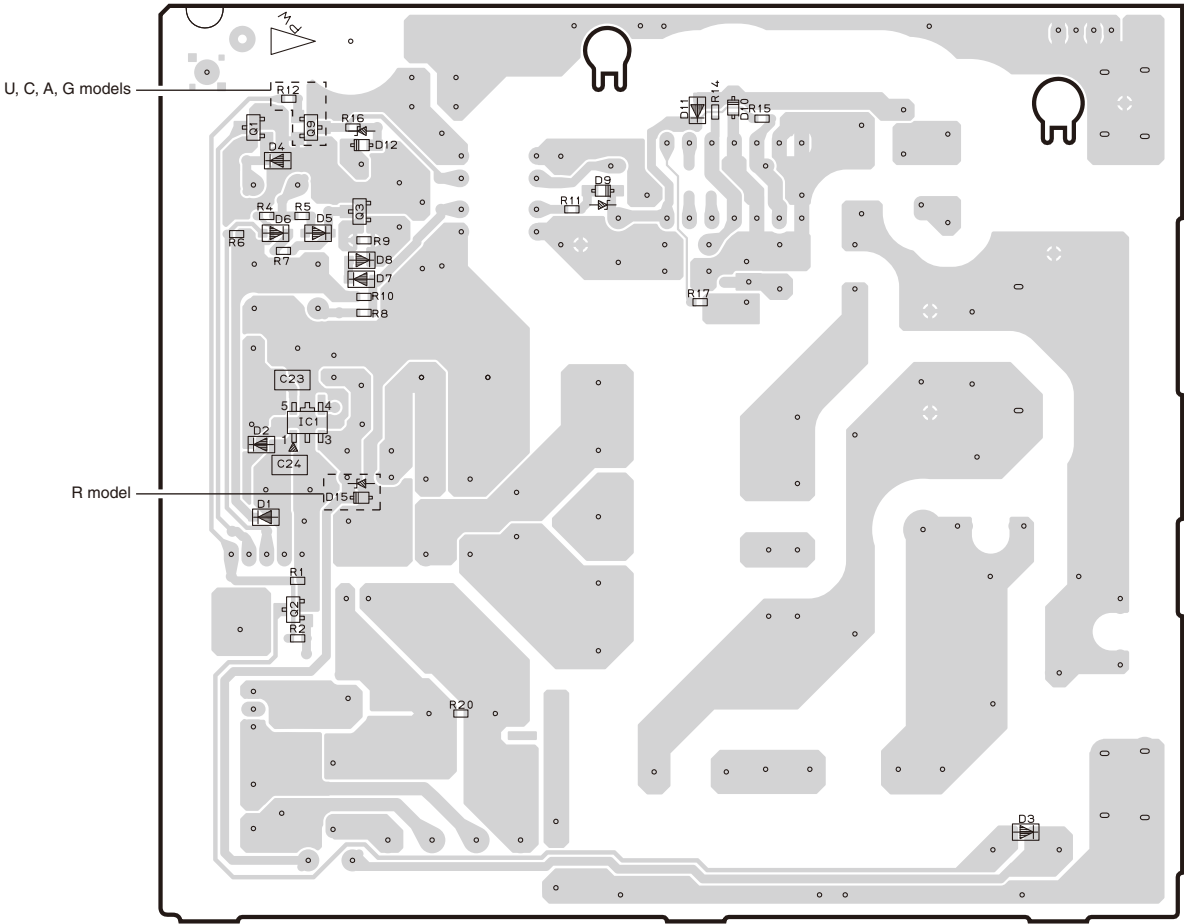


Circuit No.	U, C, A, G	R
C12	X	O
C14	O	X
X : NOT USED		
O : USED/APPLICABLE		

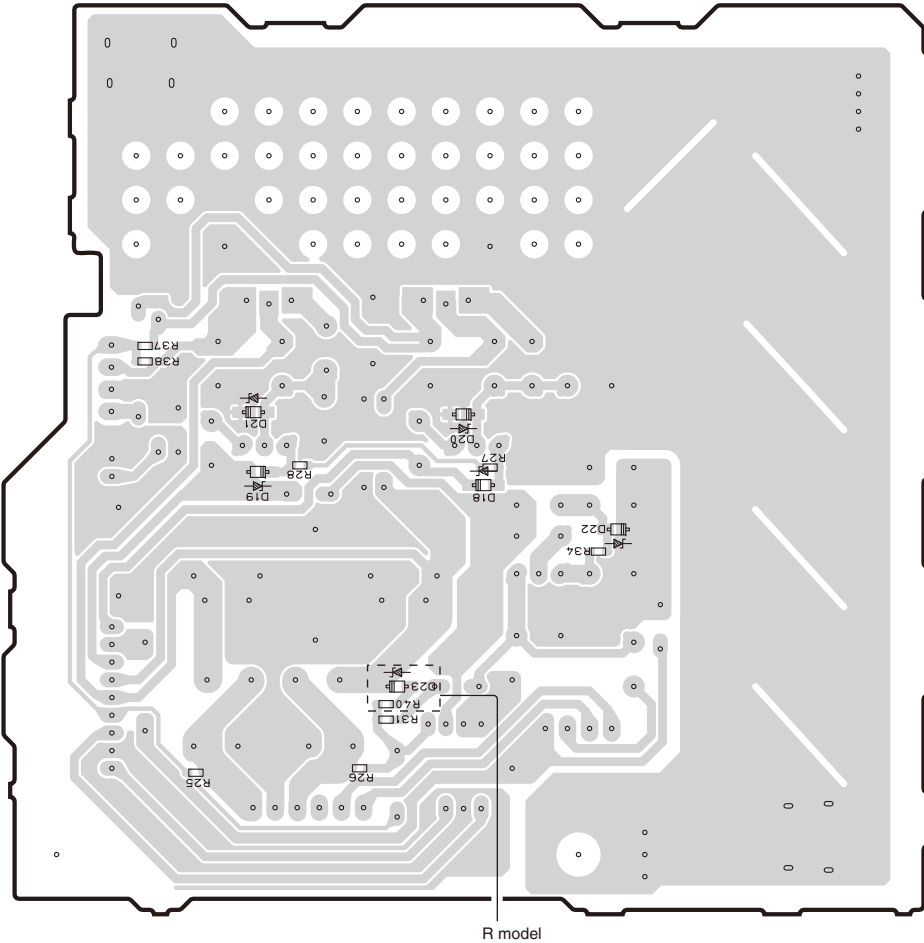
• Semiconductor Location

Ref no.	Location
D13	D3
D14	G4
D24	C4
D26	C5
IC2	C3
IC3	C2
IC4	D3
Q4	H3
Q5	G3
Q6	H3
Q7	G3
Q8	H4
Q10	D3

OPERATION (12) P.C.B. (Side B)

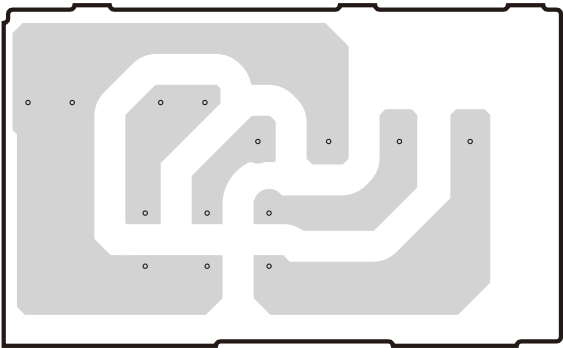


OPERATION (13) P.C.B. (Side B)



OPERATION (14) P.C.B. (Side B)

R model



• Semiconductor Location

Ref no.	Location	Ref no.	Location
D1	B4	D15	C4
D2	B3	D18	H4
D3	E5	D19	G3
D4	B2	D20	H3
D5	B3	D21	G3
D6	B3	D22	I4
D7	C3	D23	H4
D8	C3	IC1	B3
D9	C3	Q1	B2
D10	D2	Q2	B4
D11	D2	Q3	C3
D12	C2	Q9	B2

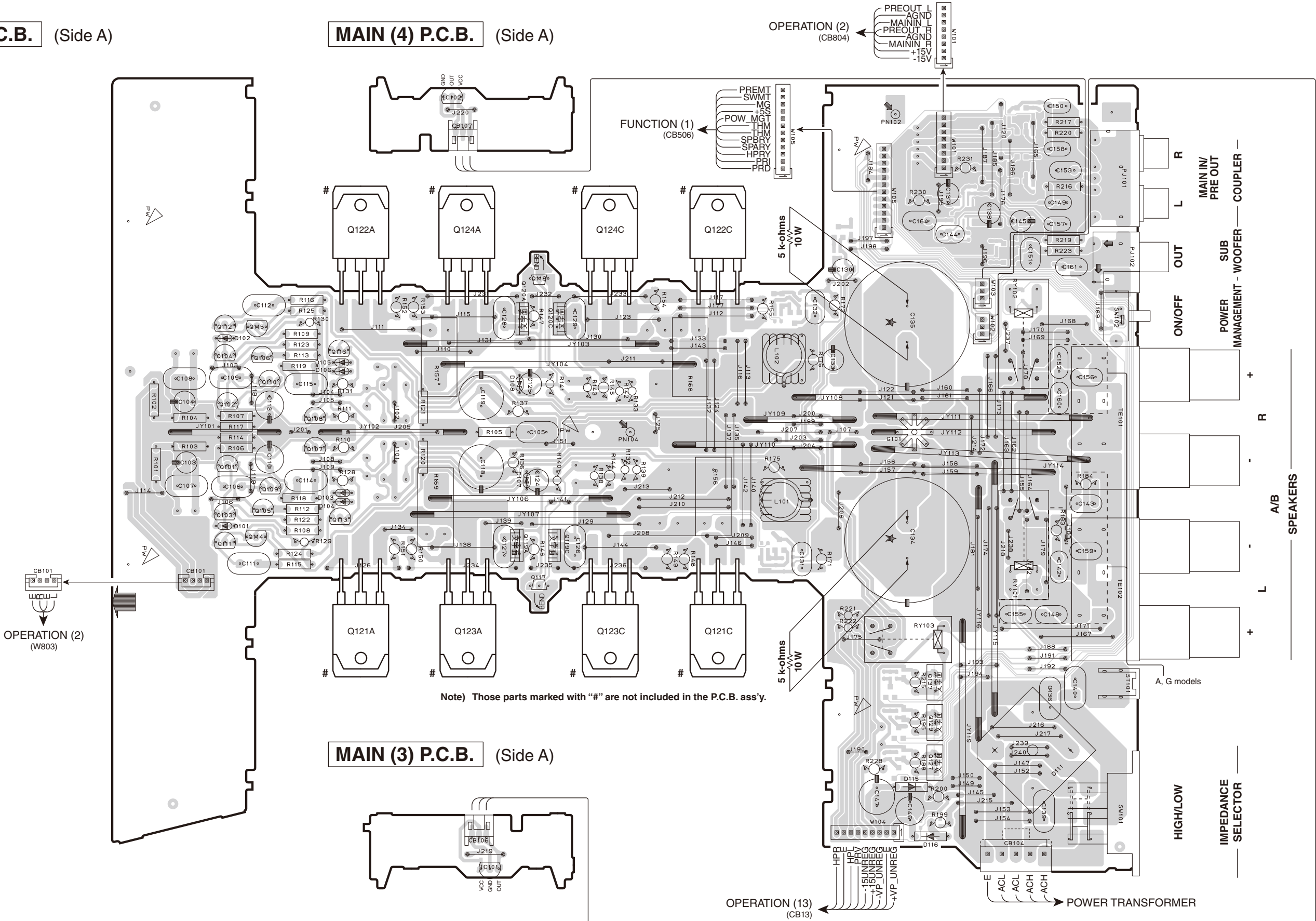
- Notes)
- Safety measures
- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
 - Note that the capacitors indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there. Before starting any repair work, connect a discharging resistor (5k-ohms/10W) to the terminals of each capacitor indicated below to discharge electricity. The time required for discharging is about 30 seconds per each. C134 and C135 on MAIN (1) P.C.B.

MAIN (1) P.C.B. (Side A)

MAIN (4) P.C.B. (Side A)

Semiconductor Location

Ref no.	Location
D101	C5
D102	C3
D103	D4
D104	D4
D105	D4
D106	D4
D107	E4
D108	E4
D111	I6
D115	H6
D116	H7
IC101	E7
IC102	E2
Q101	C4
Q102	C4
Q103	C5
Q104	C4
Q105	D5
Q106	D4
Q107	D4
Q108	D4
Q109	D4
Q110	D4
Q111	C5
Q112	C3
Q113	D5
Q114	D5
Q115	D3
Q116	D3
Q117	E5
Q118	E3
Q119A	E5
Q119C	F5
Q120A	E3
Q120C	F3
Q121A	E5
Q121C	F5
Q122A	D3
Q122C	F3
Q123A	D5
Q123C	G5
Q124A	E3
Q124C	G3
Q127	H6
Q129	H6
Q137	H6



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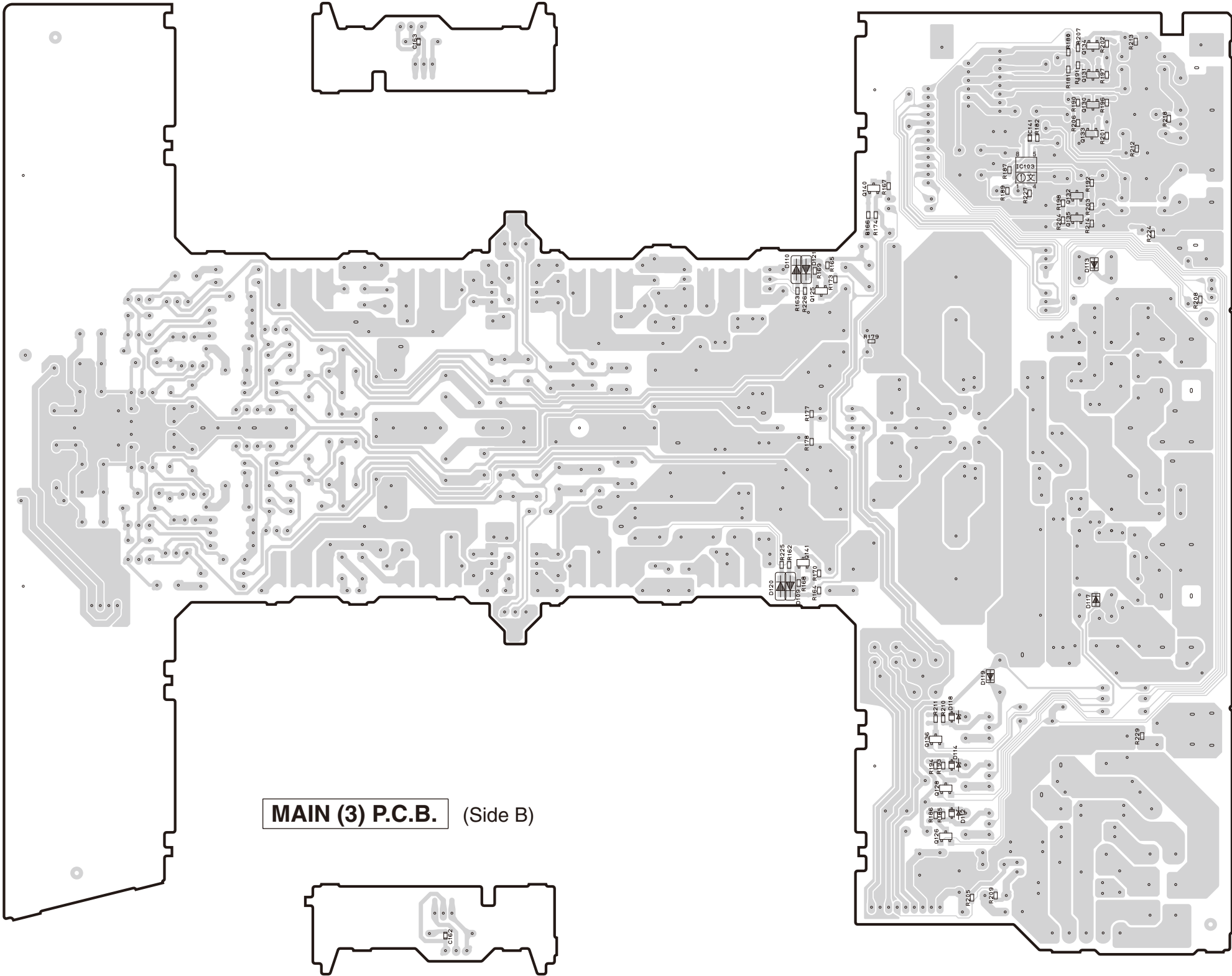
6

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MAIN (1) P.C.B. (Side B)

MAIN (4) P.C.B. (Side B)

MAIN (3) P.C.B. (Side B)



• Semiconductor Location

Ref no.	Location
D109	G5
D110	G3
D112	G6
D113	H3
D114	G6
D117	H5
D118	G6
D119	H5
D120	F5
D121	G3
IC103	H3
Q125	G3
Q126	G6
Q128	G6
Q130	H2
Q131	H2
Q132	H3
Q133	H2
Q134	H2
Q135	H3
Q136	G6
Q140	G3
Q141	G5

R-S700

1

MAIN (2) P.C.B. (Side A)

2

3

4

MAIN (2) P.C.B. (Side B)

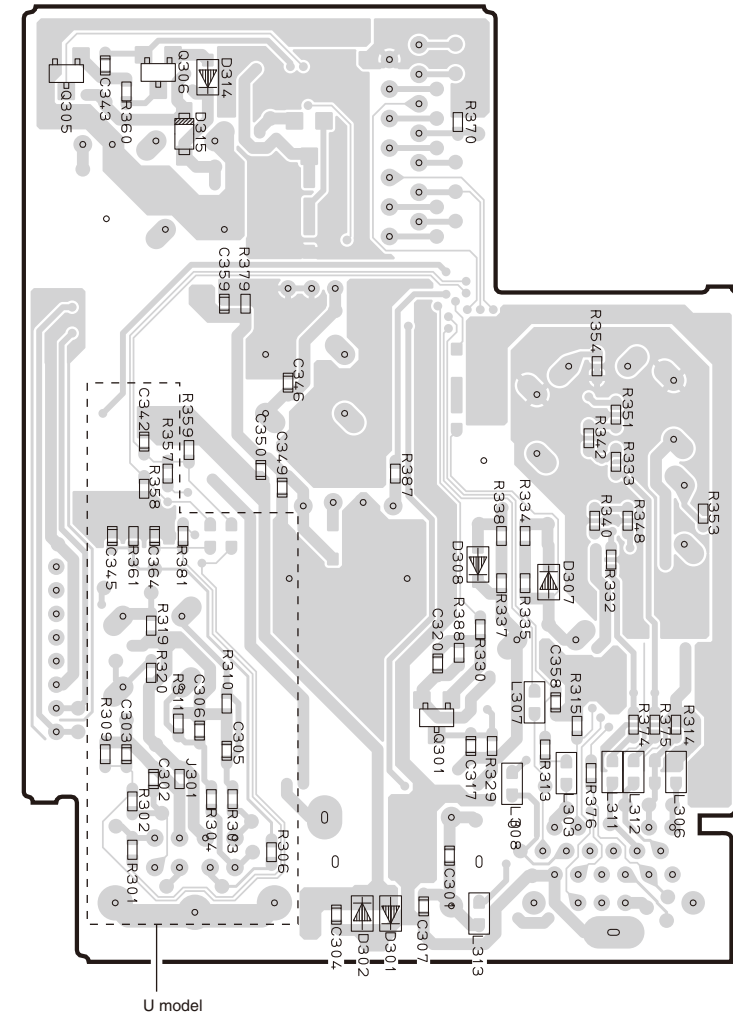
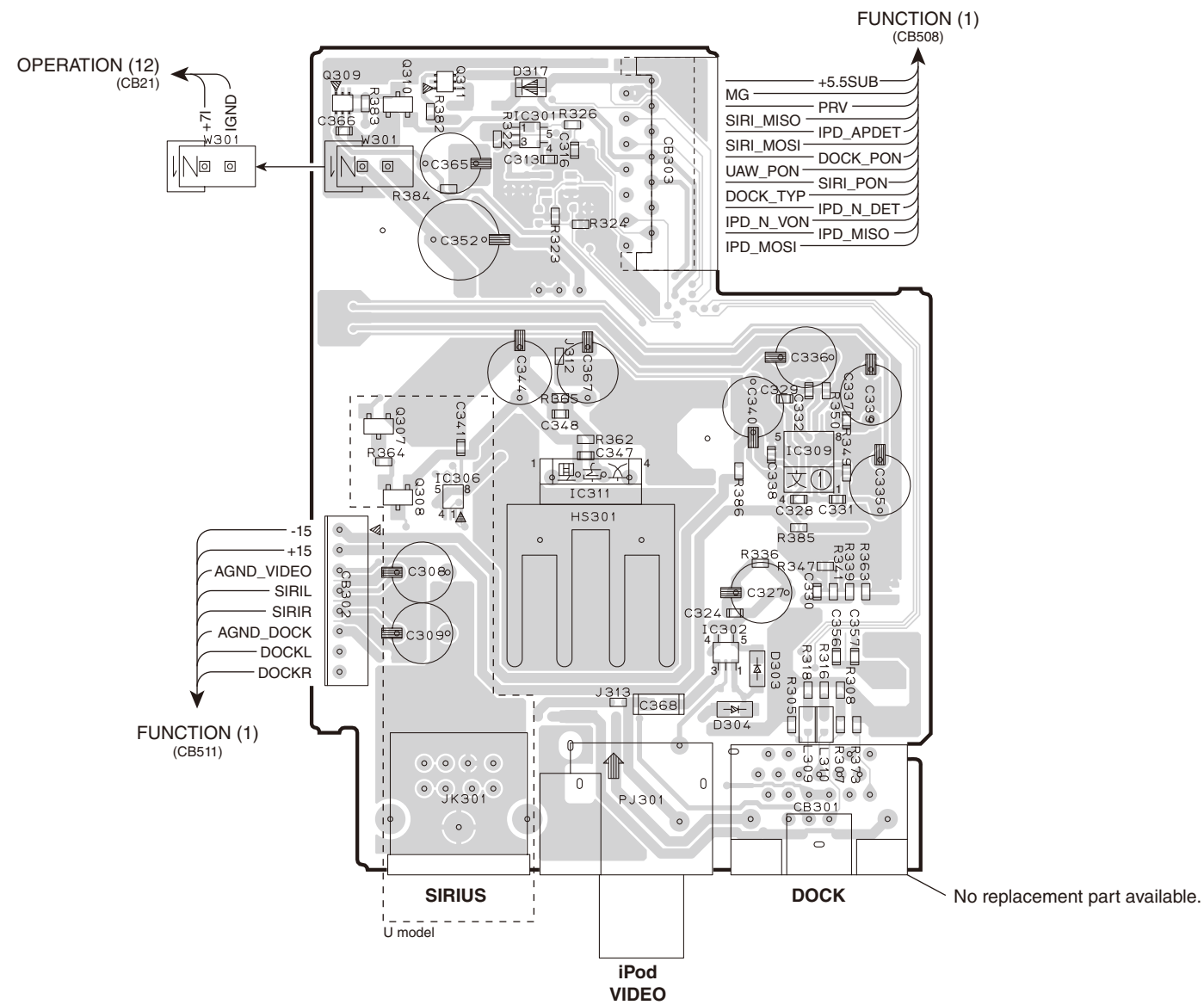
5

6

7

DOCK P.C.B. (Side A)

DOCK P.C.B. (Side B)



- Semiconductor Location

Ref no.	Location
D301	H5
D302	H5
D303	D4
D304	D5
D307	H4
D308	H4
D314	G2
D315	G3
D317	C2
IC301	C2
IC302	D4
IC306	C4
IC309	D4
IC311	C4
Q301	H4
Q305	G2
Q306	G2
Q307	B4
Q308	B4
Q309	B2
Q310	B2
Q311	C2

PIN CONNECTION DIAGRAMS

ICs

LC72725KM-UY-TLM-E 	LE24C023M-TLM-E 	LM61CIZ 	NJM2068MD-TE2 	NJM2388F05
NJM4580E 	NJM5532M-D 	M66003-0131FP-R 	R1190H055B-T1-FE 	R2A15220FP
R5F364AENFA 	RP130Q501D-TR-F 	TC4013BP 	TC7SB66FU TC7SET32FU 	TC7WZ32FK (TE85L, F)

Diodes

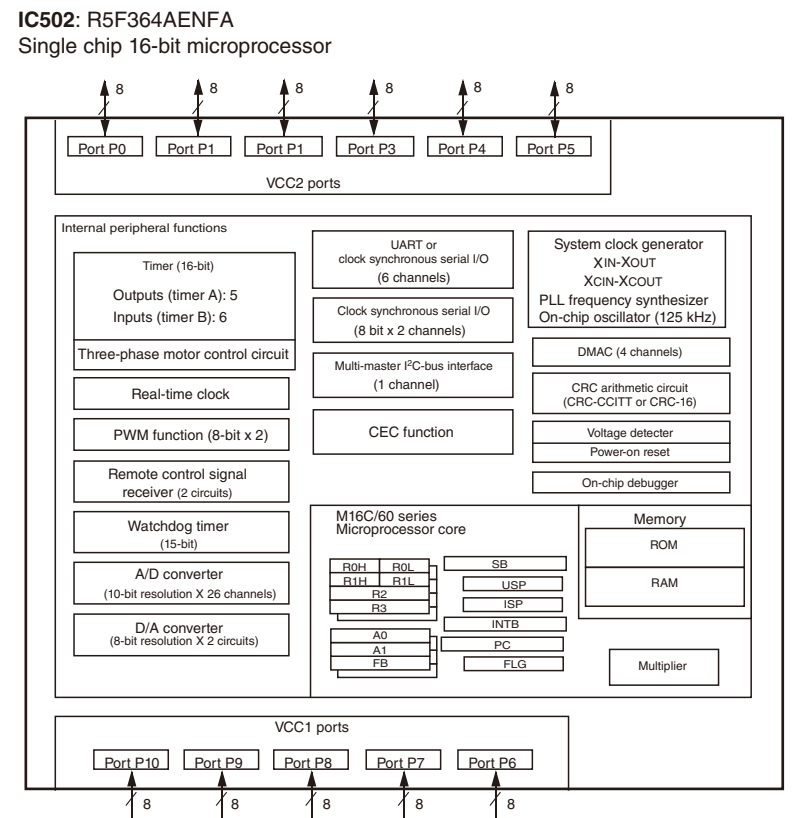
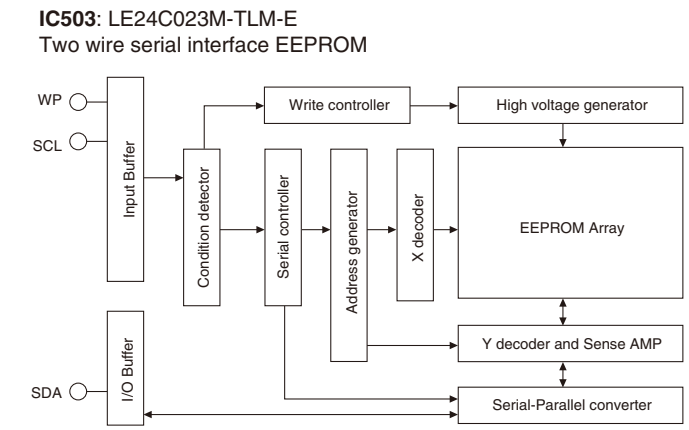
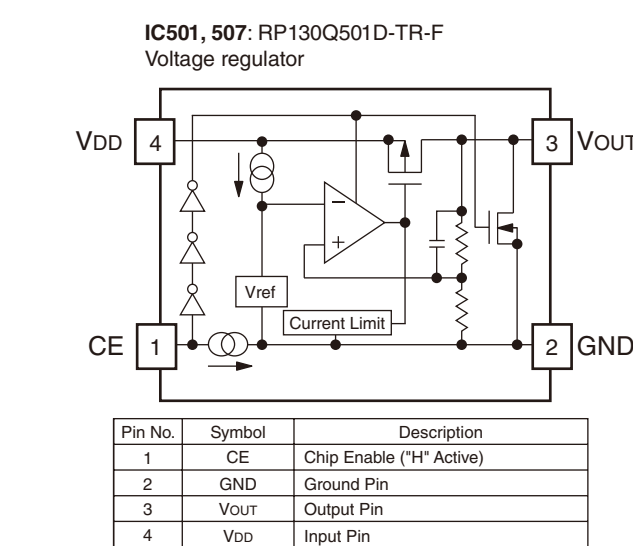
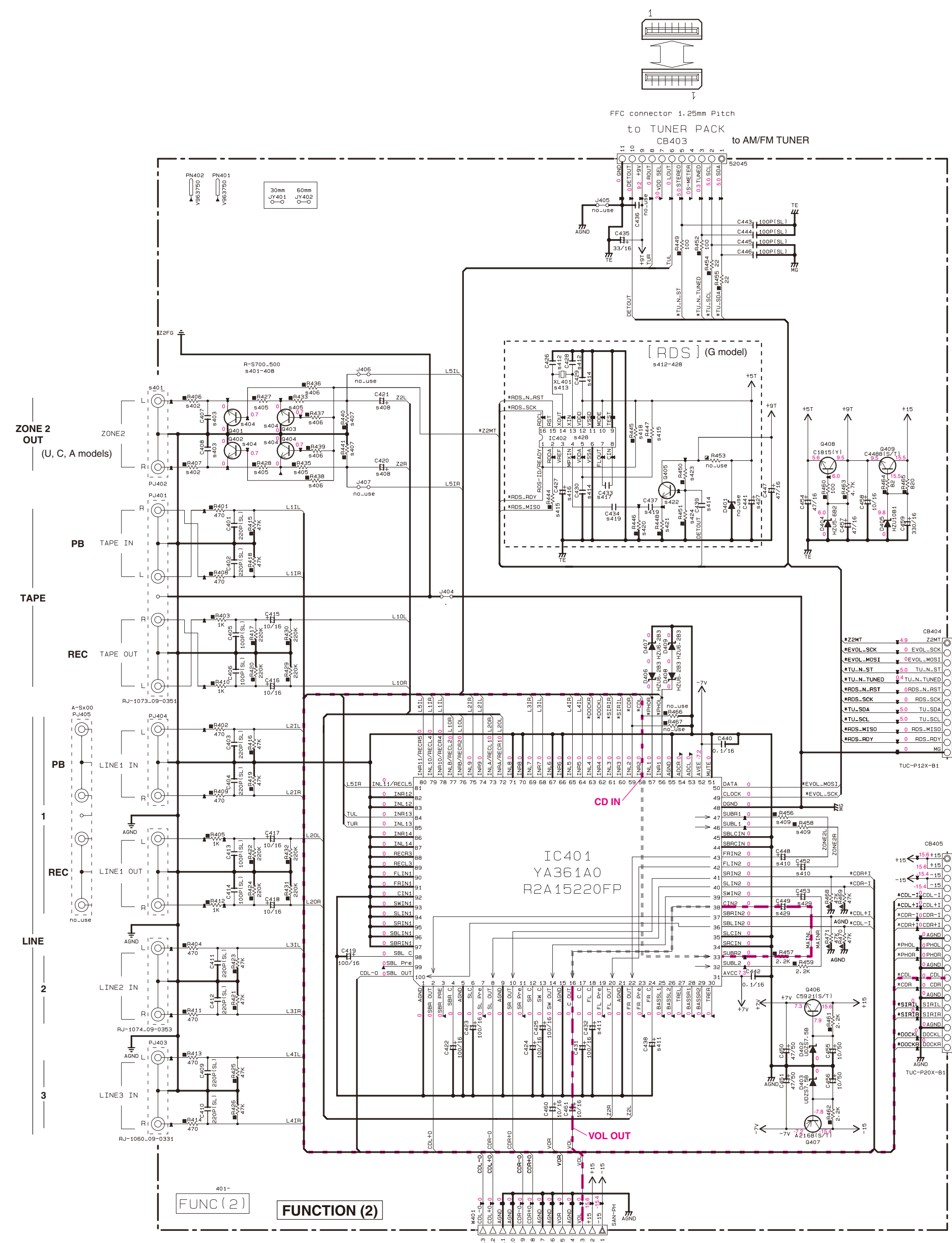
1SS133 1SS176	1T2	DB105	HSU119TRF	HZU3.3B2 TRF-E HZU5.1B2 TRF-E HZU5.6B1 TRF-E HZU5.6B2 TRF-E HZU6.2B3 TRF-E HZU6.8B2 TRF-E HZU7.5B1 TRF-E HZU7.5B3 TRF-E HZU8.2B1 TRF-E	HZU10B1 TRF-E HZU10B2 HZU11B2 TRF-E HZU15B3 TRF-E HZU16B2 TRF-E HZU22B3 TRF-E HZU30B TRF-E
MTZJ5.1C MTZJ10A	RLS245	RB500V-40 RR264M-400TR	RS203M-B-C-J80	S5VB60	UDZS3.0B 3.0V

Transistors

2SA1015-Y 	2SA1037K 	2SA1145 	2SA1358 O,Y 2SC3421 O,Y 	2SA1694 O,P,Y 2SC4467 O,P,Y 	2SA1708 2SC4488 	2SA970-GR, BL 		
2SA2220 	2SB1257 	2SC1740S 	2SC1815 Y 	2SC2412K 	2SC2705 	2SD2014 	2SD2704 K 	2SD2705S TP
2SK3850 	2N5401C-AT/P 	DTA114EKA DTA143EKA DTA144EKA DTC114EKA 1: GND 2: IN 3: OUT		KRC104S-RTK 	KTA1046-Y-U/P 	KTA1517S KTC3875S KTC3911S 	MCH6336-TL-E 1. Drain 2. Drain 3. Gate 4. Source 5. Drain 6. Drain	

SCHEMATIC DIAGRAMS

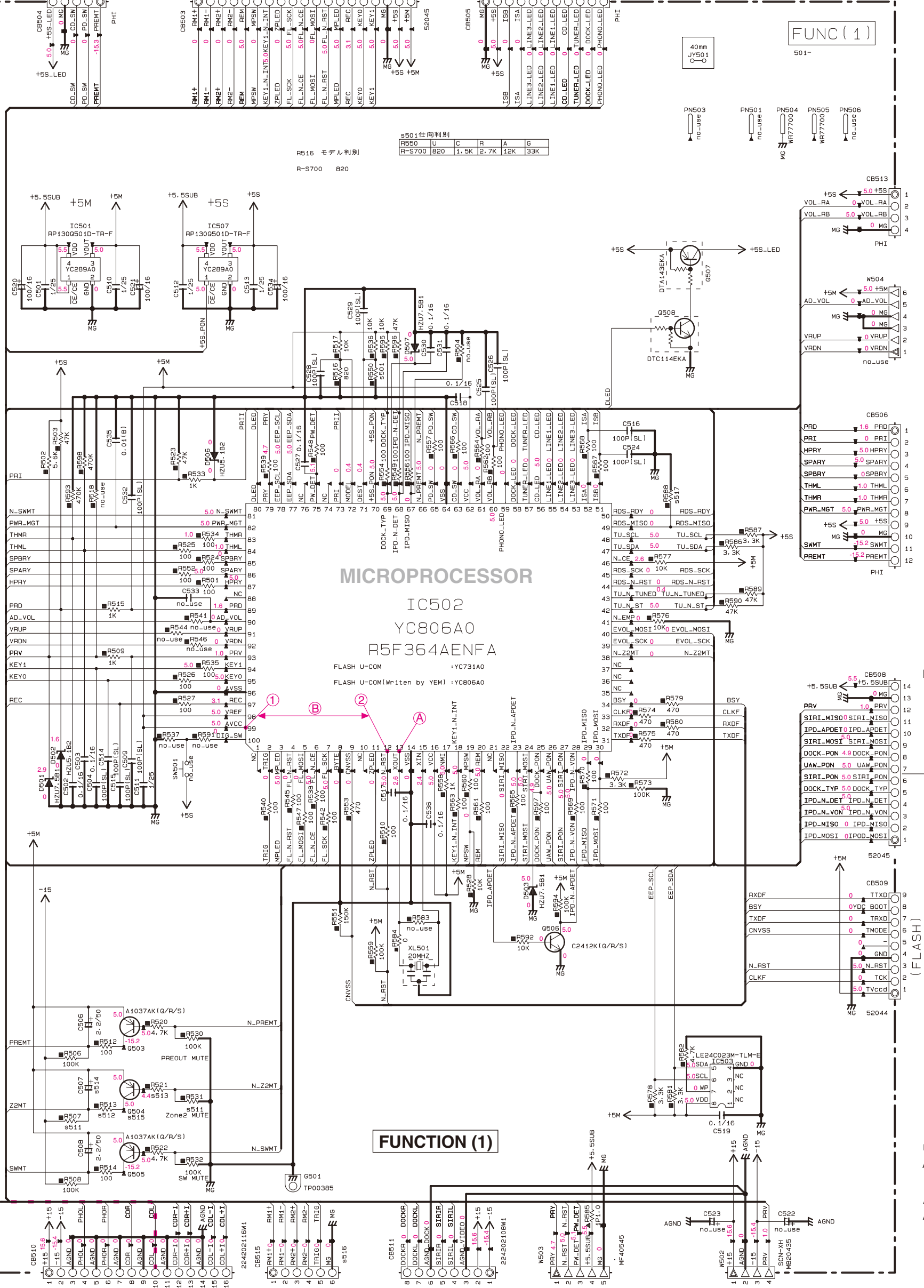
FUNCTION 1/2



Page 59 [B5]
to OPERATION (2)_W801
to OPER(2)

Page 59 [B9]
to OPERATION (1)_CB701
to OPER(1)

Page 59 [I8]
to OPERATION (5)_W705
to OPER(5)



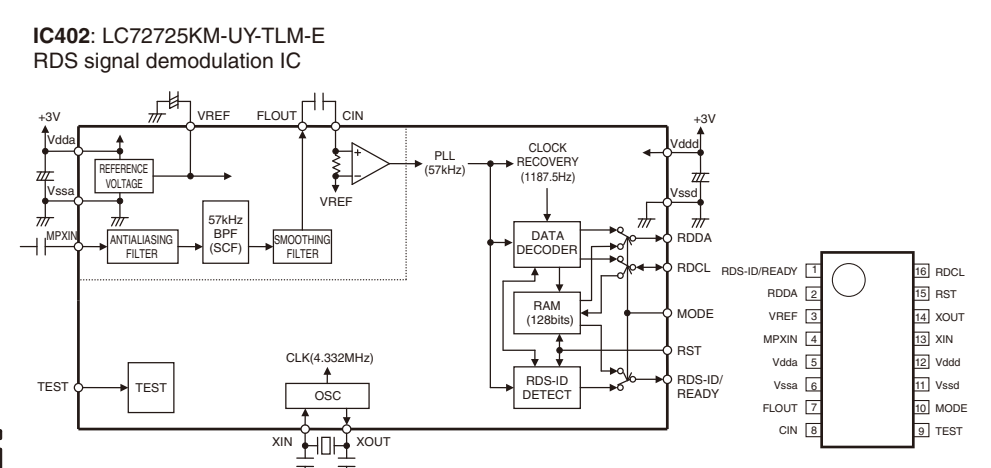
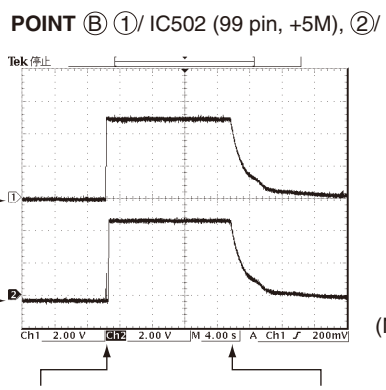
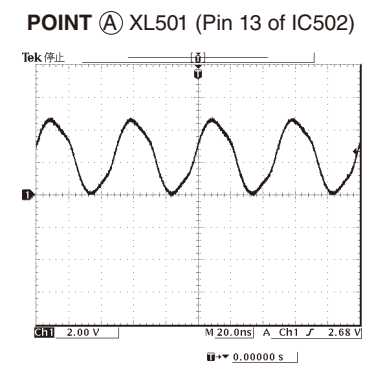
Page 58 [G6]
to FUNCTION (3)_CB602

Page 58 [G3]
to FUNCTION (3)_CB601
(U, C, A models)

Page 62 [F10]
to DOCK_CB302

Page 60 [G8]
to OPERATION (12)_CB2

Page 60 [G4]
to OPERATION (13)_CB14



REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
△	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
△	METAL PLATE RESISTOR
△	FIRE PROOF CARBON FILM RESISTOR
△	CEMENT MOLDED RESISTOR
△	SEMI VARIABLE RESISTOR
△	CHIP RESISTOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
△	TANTALUM CAPACITOR
△	CERAMIC TUBULAR CAPACITOR
△	POLYESTER FILM CAPACITOR
△	POLYSTYRENE FILM CAPACITOR
△	MICA CAPACITOR
△	POLYPROPYLENE FILM CAPACITOR
△	SEMICONDUCTIVE CERAMIC CAPACITOR
△	POLYPHENYLENE SULFIDE FILM CAPACITOR

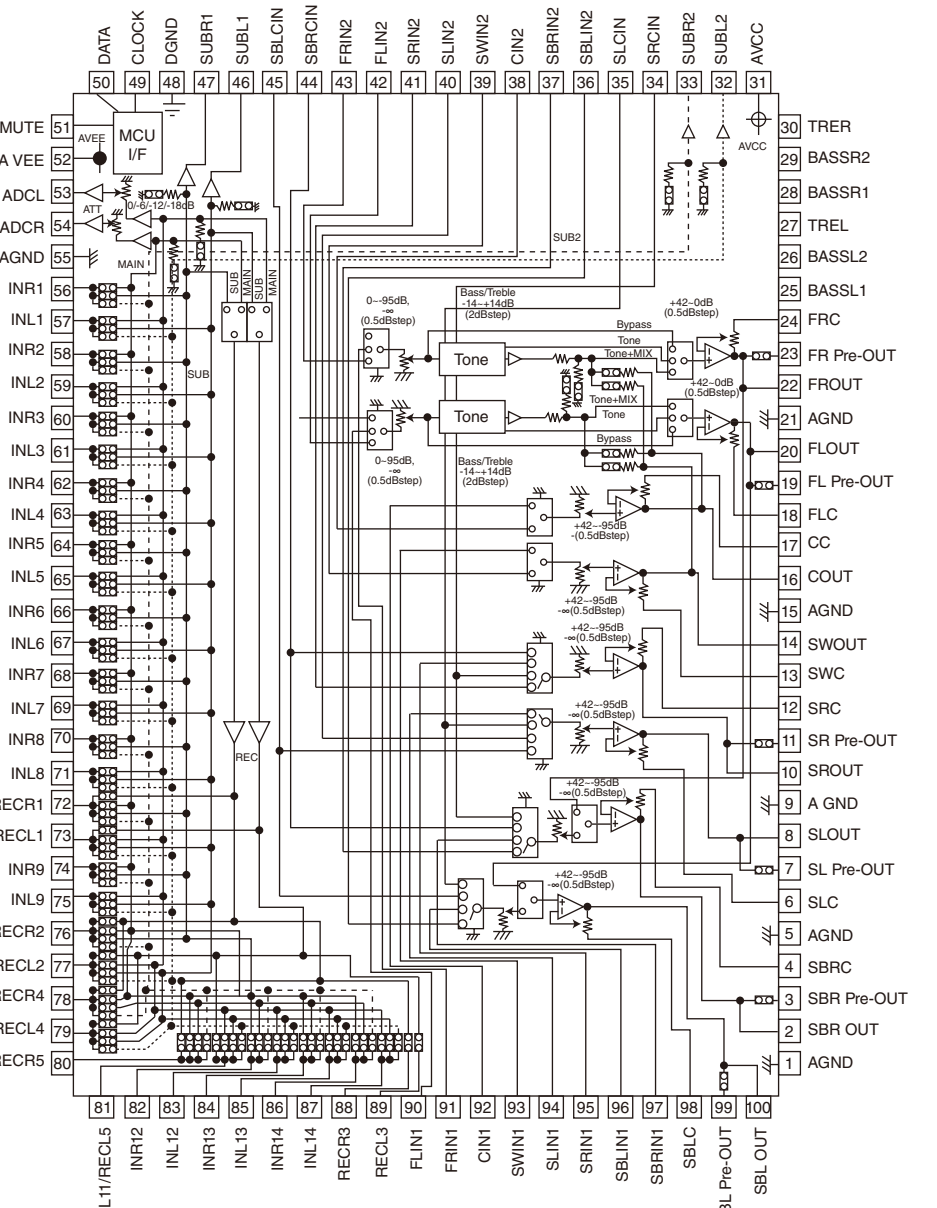
NOTICE (model)
(J)..... JAPAN
(U)..... U.S.A
(C)..... CANADA
(A)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(L)..... EUROPE
(S)..... SINGAPORE
(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL

Page 59 [J5]
to OPERATION (7)_W851
to OPER(7)

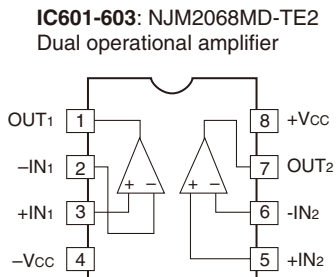
Page 61 [H9]
to MAIN (1)_W105
to MAIN(1)

Page 62 [I3]
to DOCK_CB303
to DOCK

IC401: R2A15220FP
8-channel electronic volume with 11 input selector and tone control



* All voltages are measured with a 10MΩ DC electronic voltmeter.
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

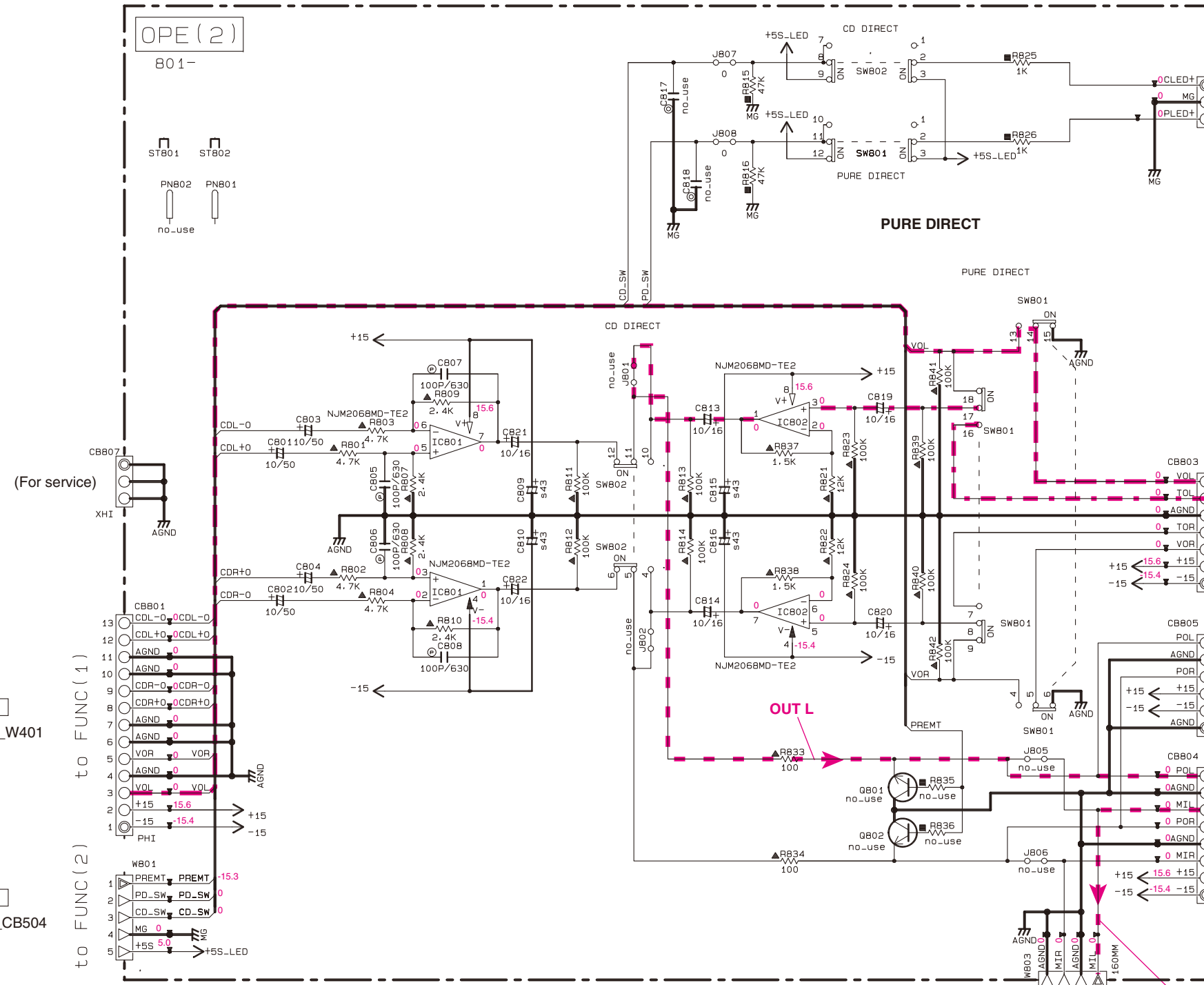


```
NOTICE (model)
(J)..... JAPAN
(U)..... U. S. A
(C)..... CANADA
(R)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE
(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
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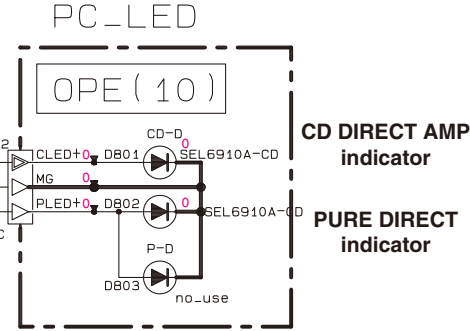
58

OPERATION 1/2

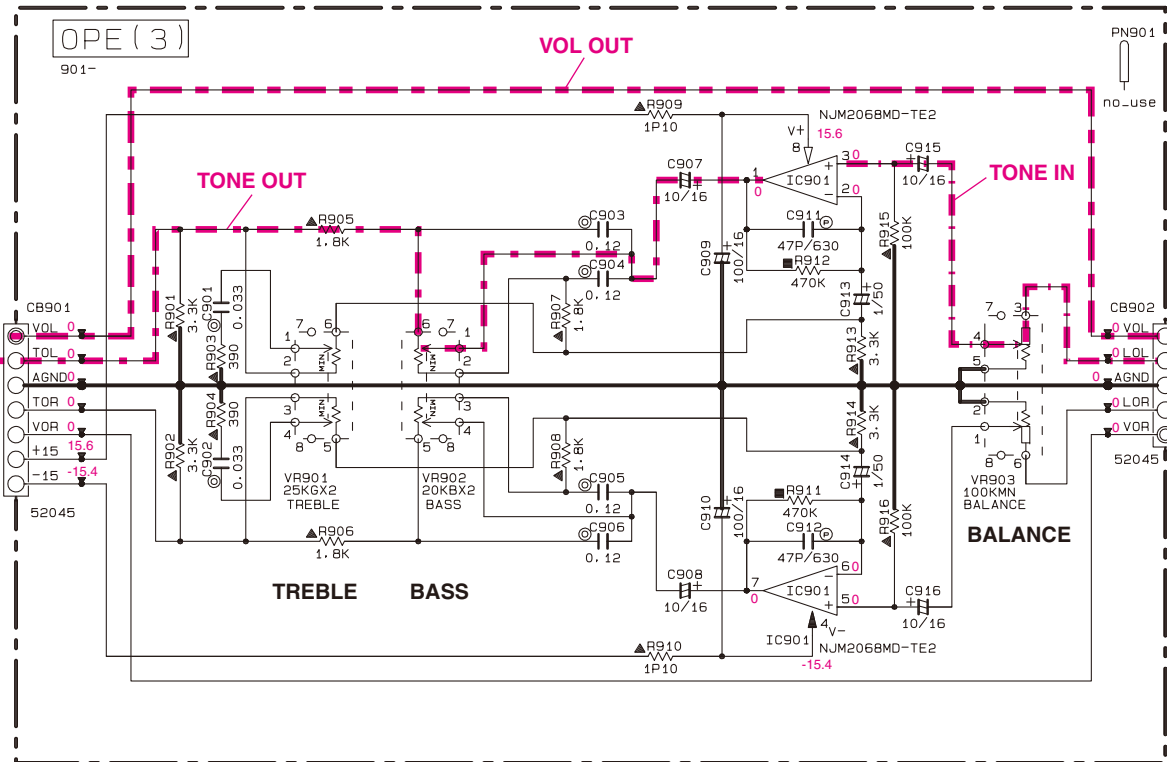
PD_CDD OPERATION (2)



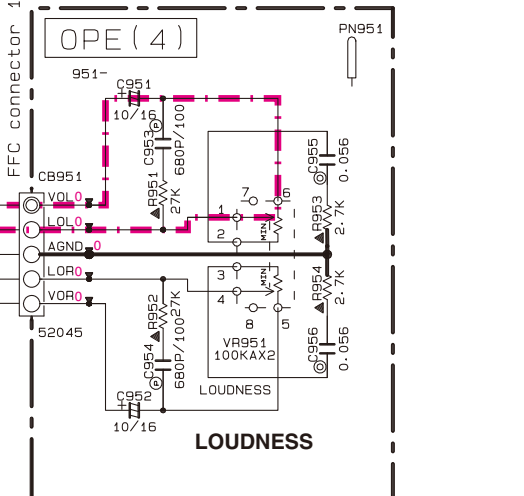
OPERATION (10)



OPERATION (3)

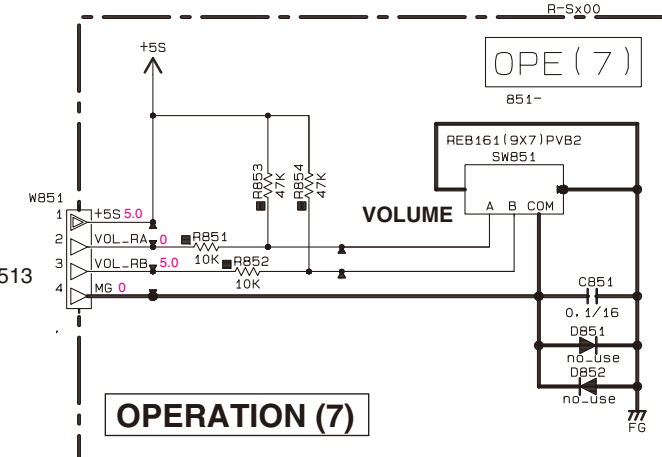


OPERATION (4)



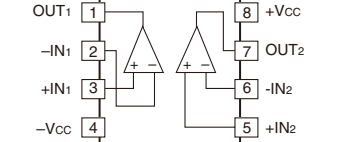
Destination Part List									
P.C.B.	8XX	LOC	UC	R	A	G			
(1)	#2	R708	V209820	X	V209820	X			
(8)	#5	SW712	MD49310	X	MD49310	X			
(12)	#11	C7	MD05420	X	MD05420	X			
(14)	#15	C88	MD05420	X	MD05420	X			
(16)	#16	C89	MD05420	X	MD05420	X			
(17)	#17	D15	MD05420	X	MD05420	X			
(18)	#18	D23	MD05420	X	MD05420	X			
(19)	#19	F4	MD05420	X	MD05420	X			
(20)	#20	J9	MD05420	X	MD05420	X			
(21)	#21	J10	MD05420	X	MD05420	X			
(22)	#22	Q9	MD05420	X	MD05420	X			
(23)	#23	R12	MD05420	X	MD05420	X			
(24)	#24	R40	MD05420	X	MD05420	X			
(25)	#25	R45	MD05420	X	MD05420	X			
(26)	#26	SW1	MD05420	X	MD05420	X			
(28)	#28	F1	MD05420	X	MD05420	X			
(29)	#29	T1	MD05420	X	MD05420	X			
(30)	#30	C31	MD05420	X	MD05420	X			
(31)	#31	C32	MD05420	X	MD05420	X			
(32)	#32	C33	MD05420	X	MD05420	X			
(33)	#33	C34	MD05420	X	MD05420	X			
(34)	#34	C35	MD05420	X	MD05420	X			
(35)	#35	C36	MD05420	X	MD05420	X			
(36)	#36	C37	MD05420	X	MD05420	X			
(37)	#37	C38	MD05420	X	MD05420	X			
(38)	#38	C39	MD05420	X	MD05420	X			
(39)	#39	C40	MD05420	X	MD05420	X			
(40)	#40	C41	MD05420	X	MD05420	X			
(41)	#41	C42	MD05420	X	MD05420	X			
(42)	#42	C43	MD05420	X	MD05420	X			
(43)	#43	C44	MD05420	X	MD05420	X			
(44)	#44	C45	MD05420	X	MD05420	X			
(45)	#45	C46	MD05420	X	MD05420	X			
(46)	#46	C47	MD05420	X	MD05420	X			

EVOL



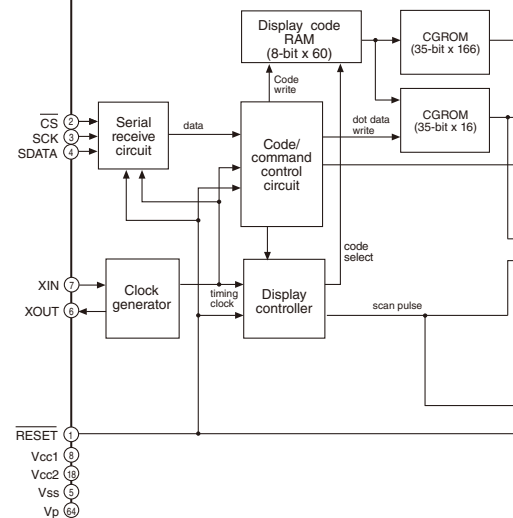
IC801, 802, 901: NJM2068MD-TE2

Dual operational amplifier



IC701: M66003-0131FP-R

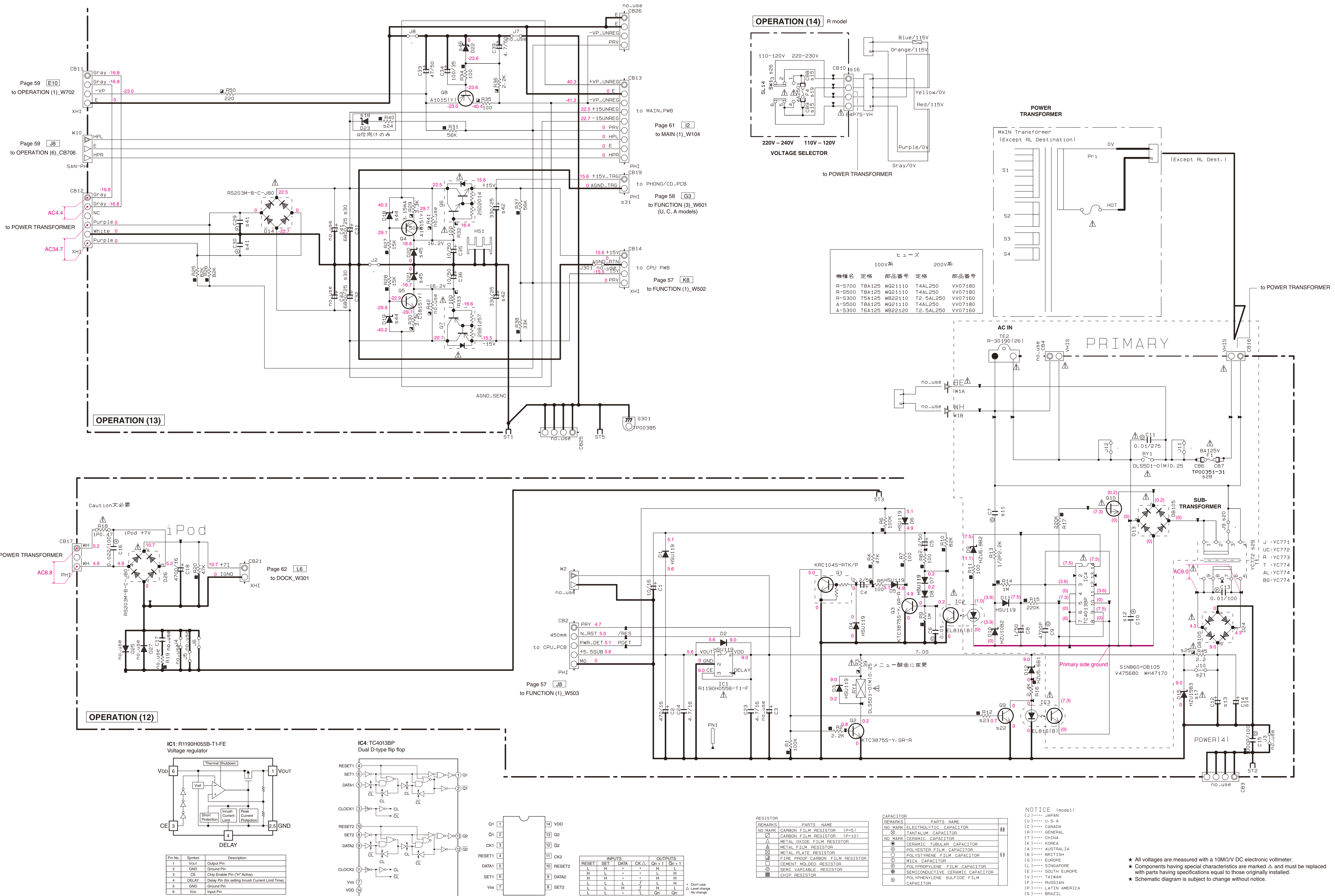
18 digit 5 x 7 segment VFD controller/driver



Key detection for A/D port									
Key input (A/D) pull-up resistance 10 k-ohms	Ohm	0	+1.0 k	+1.0 k	+1.5 k	+2.2 k	+3.3 k	+4.7 k	
A/D conversion value (5.0 V=255)	0 - 11	0.23 - 0.64	0.65 - 1.06	1.07 - 1.55	1.56 - 2.09	2.10 - 2.62	2.63 - 3.94		
KEY0 (95 pin of the microprocessor)	0	0 - 11	12 - 32	33 - 54	55 - 79	80 - 107	108 - 134	135 - 156	
KEY1 (94 pin of the microprocessor)	0	0 - 11	12 - 32	33 - 54	55 - 79	80 - 107	108 - 134	135 - 156	

- ★ All voltages are measured with a 10MΩ/V DC electronic voltmeter.
- ★ Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
- ★ Schematic diagram is subject to change without notice.

OPERATION 2/2



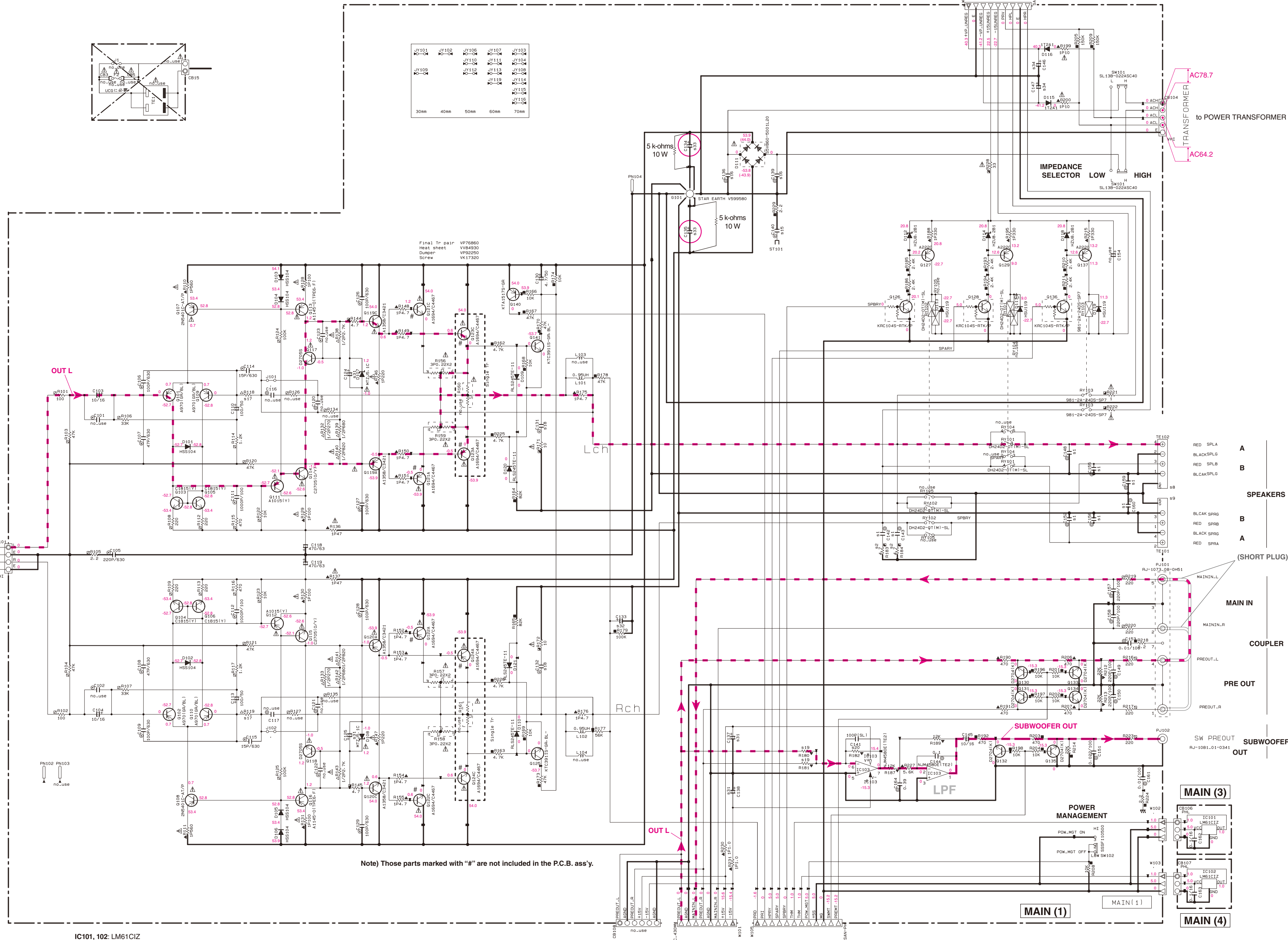
MAIN

Notes

Safety measures

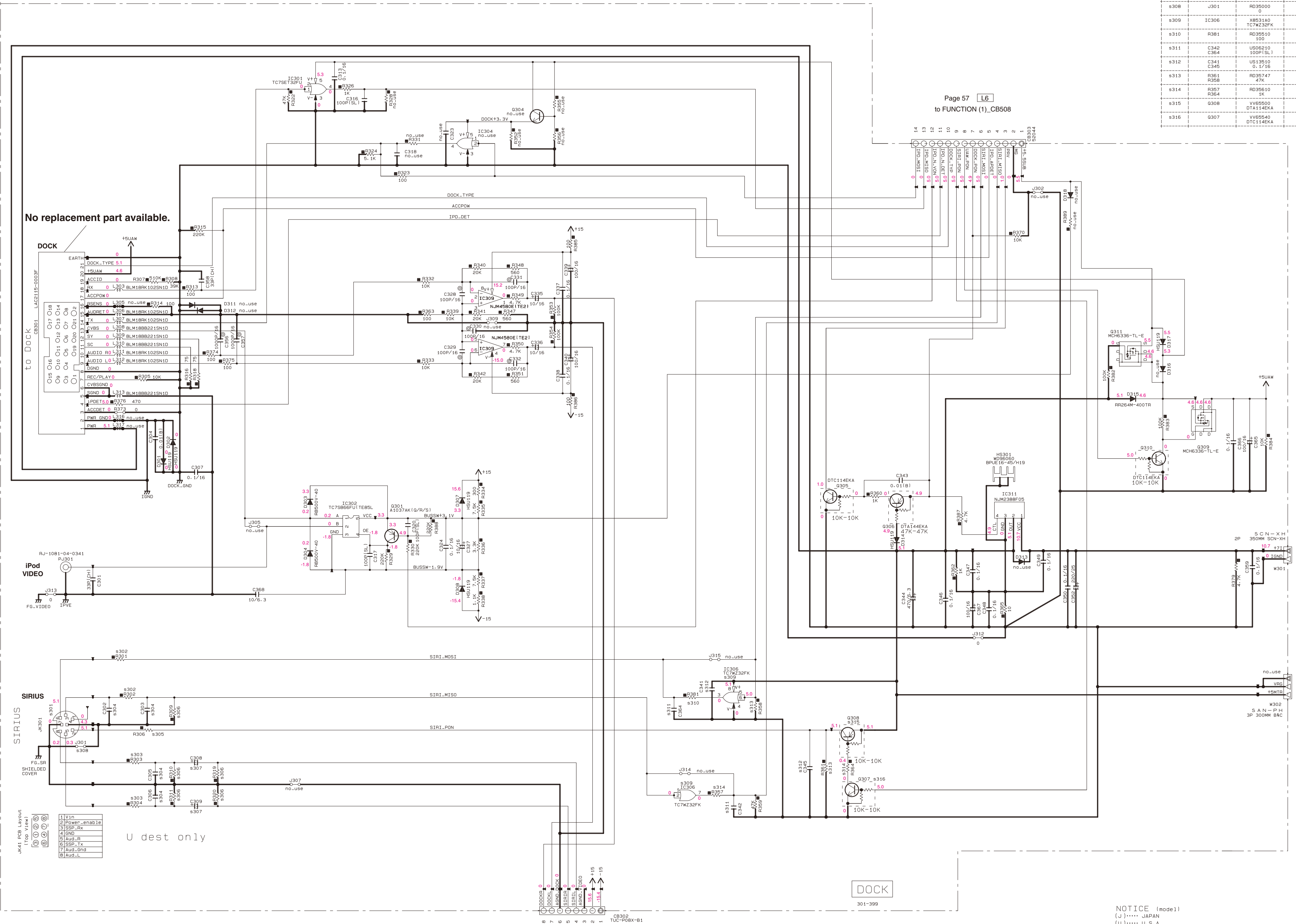
- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
- Note that the capacitors indicated below are dangerous even after the power is turned off because an electric charge remains and a high voltage continues to exist there. Before starting any repair work, connect a discharging resistor (5k-ohms/10W) to the terminals of each capacitor indicated below to discharge electricity. The time required for discharging is about 30 seconds per each.

C134 and C135 on MAIN (1) P.C.B.

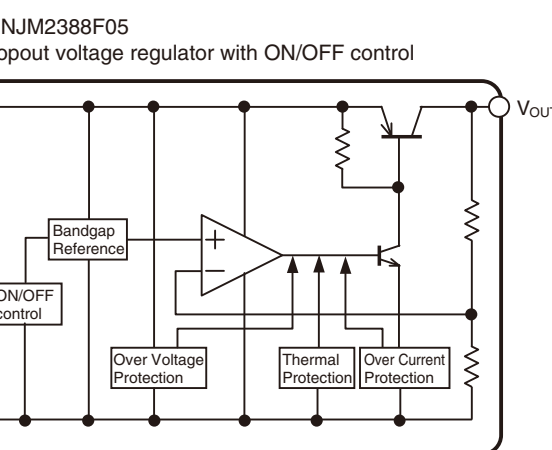
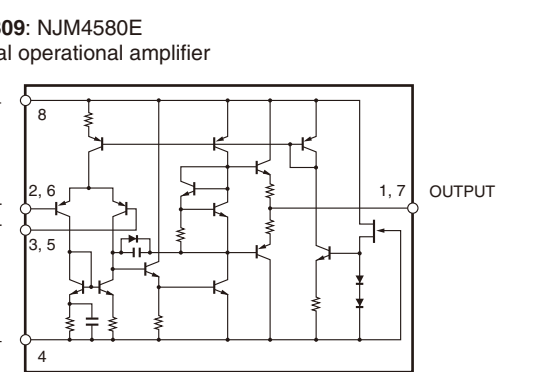
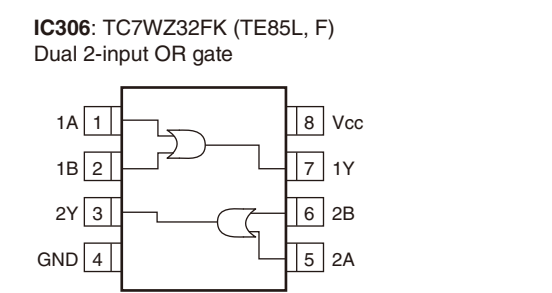
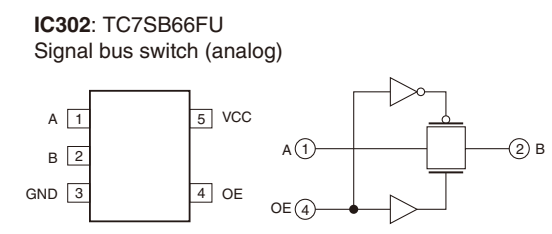
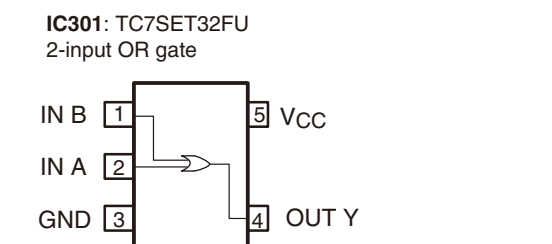
Page 60 [G2]
to OPERATION (13)_CB13

Destination Part List					
SXX	LDC	UC	R	A	G
s1	C101	X	X	X	X
	C102				
	C103				
	C104				
	C105				
	C106				
	C107				
s2	R101	X	X	X	X
	R102				
s3	TE101	X	X	X	X
	TE102				
s4	C108	X	X	X	X
	C109				
	C110				
	C111				
	C112				
	C113				
	C114				
	C115				
	C116				
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DOCK



sXX	LOC	U	CR45L
s301	JK301	VV8950	X
s302	R301	RD35822	X
s303	R303	RD35810	X
s304	C305	U068222	X
s305	R306	RD35410	X
s306	R311	RD35822	X
s307	C308	UR83710	X
s308	R301	RD35000	X
s309	IC306	X8531A0	X
s310	R381	RD35810	X
s311	C342	U068210	X
s312	C341	U013510	X
s313	R381	RD35747	X
s314	R387	RD35610	X
s315	Q308	VV65500	X
s316	Q307	DT114EXA	X



NOTICE (model)
(J)..... JAPAN
(U)..... U.S.A
(C)..... CANADA
(R)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(L)..... EUROPE
(G)..... SINGAPORE
(E)..... SOUTH EUROPE
(V)..... TAIWAN
(P)..... RUSSIAN
(S)..... LATIN AMERICA
(S)..... BRAZIL

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
NO MARK	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
NO MARK	CERAMIC TUBULAR CAPACITOR
NO MARK	POLYESTER FILM CAPACITOR
NO MARK	POLYSTYRENE FILM CAPACITOR
NO MARK	MICA CAPACITOR
NO MARK	POLYPROPYLENE FILM CAPACITOR
NO MARK	SEMICONDUCTIVE CERAMIC CAPACITOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
NO MARK	CARBON FILM RESISTOR (P=10)
NO MARK	METAL OXIDE FILM RESISTOR
NO MARK	METAL FILM RESISTOR
NO MARK	METAL PLATE RESISTOR
NO MARK	FIRE PROOF CARBON FILM RESISTOR
NO MARK	CEMENT MOLDED RESISTOR
NO MARK	SEMIVARIABLE RESISTOR
NO MARK	CHIP RESISTOR

* All voltages are measured with a 10MΩ/V DC electronic voltmeter.
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

TO FUNC(1)

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■ REPLACEMENT PARTS LIST

• ELECTRICAL COMPONENT PARTS

WARNING

- Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS:

C.A.EL.CHP	: CHIP ALUMI.ELECTROLYTIC CAP	JUMPER.TST	: JUMPER,TEST POINT
C.CE	: CERAMIC CAP	L.DTCT	: LIGHT DETECTING MODULE
C.CE.ARRAY	: CERAMIC CAP ARRAY	LED.CHP	: CHIP LED
C.CE.CHP	: CHIP CERAMIC CAP	LED.DSPLY	: LED DISPLAY
C.CE.M.CHP	: CHIP MULTILAYER CERAMIC CAP	LED.INFRD	: LED,INFRARED
C.CE.SAFTY	: RECOGNIZED CERAMIC CAP	PHOT.CPL	: PHOTO COUPLER
C.CE.TUBLR	: CERAMIC TUBULAR CAP	PHOT.INTR	: PHOTO INTERRUPTER
C.CE.SMI	: SEMI CONDUCTIVE CERAMIC CAP	PHOT.RFLCT	: PHOTO REFLECTOR
C.EL	: ELECTROLYTIC CAP	PHOT.TR	: PHOTO TRANSISTOR
C.EL.BP	: BIPOLAR ELECTROLYTIC CAP	PIN.TEST	: PIN,TEST POINT
C.EL.CHP	: CHIP ELECTROLYTIC CAP	R.ARRAY	: RESISTOR ARRAY
C.MICA	: MICA CAP	R.CAR.	: CARBON RESISTOR
C.ML.FLM	: MULTILAYER FILM CAP	R.CAR.CHP	: CHIP RESISTOR
C.MP	: METALLIZED POLYESTER FILM CAP	R.CAR.FP	: FLAME PROOF CARBON RESISTOR
C.MYLAR	: MYLAR FILM CAP	R.CEMENT	: CEMENT RESISTOR
C.MYLAR.ML	: MULTILAYER MYLAR FILM CAP	R.FUS	: FUSIBLE RESISTOR
C.NIOB.OXD	: NIOBIUM OXIDE CAP	R.MTL.CHP	: CHIP METAL FILM RESISTOR
C.PAPER	: PAPER CAPACITOR	R.MTL.FLM	: METAL FILM RESISTOR
C.PLS	: POLYSTYRENE FILM CAP	R.MTL.OXD	: METAL OXIDE FILM RESISTOR
C.POL	: POLYESTER FILM CAP	R.MTL.PLAT	: METAL PLATE RESISTOR
C.PP	: POLYPROPYLENE FILM CAP	RSNR.CE	: CERAMIC RESONATOR
C.PP.CHP	: CHIP POLYPROPYLENE FILM CAP	RSNR.CRYS	: CRYSTAL RESONATOR
C.TNTL	: TANTALUM CAP	SCR.BND.HD	: BIND HEAD B-TIGHT SCREW
C.TNTL.CHP	: CHIP TANTALUM CAP	SCR.TERM	: SCREW TERMINAL
C.TRIM	: TRIMMER CAP	SCR.TR	: SCREW,TRANSISTOR
CN	: CONNECTOR	SURG.PRTCT	: SURGE PROTECTOR
CN.BS.PIN	: CONNECTOR,BASE PIN	SUPRT.PCB	: P.C.B. SUPPORT
CN.CANNON	: CONNECTOR,CANNON	SW.LEVER	: LEVER SWITCH
CN.DIN	: CONNECTOR,DIN	SW.MICRO	: MICRO SWITCH
CN.FLAT	: CONNECTOR,FLAT CABLE	SW.LEAF	: LEAF SWITCH
CN.FFC	: CONNECTOR,FLEXIBLE FLAT CABLE	SW.PUSH	: PUSH SWITCH
CN.HDMI	: HDMI CONNECTOR	SW.RT	: ROTARY SWITCH
CN.PHOTO.R	: PHOTO FIBER SENSOR,RECEIVED	SW.RT.ENC	: ROTARY ENCODER
CN.PHOTO.T	: PHOTO FIBER SENSOR,TRANSMITTED	SW.RT.MTR	: ROTARY SWITCH WITH MOTOR
DIODE.ARRAY	: DIODE ARRAY	SW.SLIDE	: SLIDE SWITCH
DIODE.BRG	: DIODE BRIDGE	SW.TACT	: TACT SWITCH
DIODE.CHP	: CHIP DIODE	TERM.SP	: SPEAKER TERMINAL
DIODE.VAR	: VARACTOR DIODE	TERM.WRAP	: WRAPPING TERMINAL
DIODE.ZENR	: ZENER DIODE	THRMST.CHP	: CHIP THERMISTOR
DIODE.Z.CHP	: CHIP ZENER DIODE	TR	: TRANSISTOR
DIODE.SCHOTTKY	: SCHOTTKY BARRIER DIODE	TR.CHP	: CHIP TRANSISTOR
DIODE.PHOT	: PHOTO DIODE	TR.DGT	: DIGITAL TRANSISTOR
FER.BEAD	: FERRITE BEADS	TR.DGT.CHP	: CHIP DIGITAL TRANSISTOR
FER.CORE	: FERRITE CORE	TR.PAIR	: PAIR TRANSISTOR
FET.CHP	: CHIP FET	TRANS	: TRANSFORMER
FL.DSPLY	: FLUORESCENT DISPLAY	TRANS.PULS	: PULSE TRANSFORMER
FLTR.CE	: CERAMIC FILTER	TRANS.PWR	: POWER TRANSFORMER
FLTR.COMB	: COMB FILTER MODULE	VOLT.SELCT	: VOLTAGE SELECTOR
FLTR.LC.RF	: LC FILTER,EMI	VR	: ROTARY POTENTIOMETER
FUSE.CHP	: CHIP FUSE	VR.MTR	: POTENTIOMETER WITH MOTOR
GND.MTL	: GROUND PLATE	VR.SLIDE	: SLIDE POTENTIOMETER
GND.TERM	: GROUND TERMINAL	VR.SW	: POTENTIOMETER WITH SWITCH
JUMPER.CN	: JUMPER CONNECTOR	VR.TRIM	: TRIMMER POTENTIOMETER

P.C.B. FUNCTION

Ref No.	Part No.	Description	Markets
* WV014000	P. C. B.	FUNCTION	U
* WV014100	P. C. B.	FUNCTION	C
* WV014200	P. C. B.	FUNCTION	R
* WV014400	P. C. B.	FUNCTION	A
* WV014500	P. C. B.	FUNCTION	G
CB403	VM859500	CN. BS. PIN	11P
CB404	V7827900	SOCKET	12P TE TUC SERIES
CB405	V7828700	SOCKET	20P SE TUC SERIES
CB501	V7826200	CN	12P TE TUC SERIES
CB502	V7827000	CN	20P TE TUC SERIES
CB503	VQ047400	CN. BS. PIN	19P
CB504	VB390100	CN. BS. PIN	5P
CB505	VB390700	CN. BS. PIN	11P
CB506	VB390800	CN. BS. PIN	12P
CB508	VN394900	CN. BS. PIN	14P
CB509	VQ044400	CN. BS. PIN	9P
CB510	V7826600	CN	16P TE TUC SERIES
CB511	V7825800	CN	8P TE TUC SERIES
CB513	VB390000	CN. BS. PIN	4P
CB515	V7825600	CN	6P TE TUC SERIES
CB601	V7827300	SOCKET	6P TE TUC SERIES
CB602	V7828300	SOCKET	16P TE TUC SERIES
C401-404	US062220	C. CE. CHP	220pF 50V B
C405-406	US062100	C. CE. CHP	100pF 50V B
C407-408	US062100	C. CE. CHP	100pF 50V B
C409-412	US062220	C. CE. CHP	220pF 50V B
C413-414	US062100	C. CE. CHP	100pF 50V B
C415-418	UR237100	C. EL	10uF 16V
C419	UR238100	C. EL	100uF 16V
C420-421	UR237100	C. EL	10uF 16V
C422-425	UR238100	C. EL	100uF 16V
C426	US061270	C. CE. CHP	27pF 50V B
C427	UR037100	C. EL	10uF 16V
C428	US061270	C. CE. CHP	27pF 50V B
C429-430	US035100	C. CE. CHP	0.1uF 16V B
C431	UR238100	C. EL	100uF 16V
C432	UR238100	C. EL	100uF 16V
C433	US062560	C. CE. CHP	560pF 50V B
C434	US062330	C. CE. CHP	330pF 50V B
* C435	UR037330	C. EL	33uF 16V
C437	US062330	C. CE. CHP	330pF 50V B
C438	UR238100	C. EL	100uF 16V
C439	US035100	C. CE. CHP	0.1uF 16V B
C440	US035100	C. CE. CHP	0.1uF 16V B
C441	UR037470	C. EL	47uF 16V
C442	US035100	C. CE. CHP	0.1uF 16V B
C443-446	US062100	C. CE. CHP	100pF 50V B
C447	UR037470	C. EL	47uF 16V
C448	UR267100	C. EL	10uF 50V
C449	UR267100	C. EL	10uF 50V
C449	UU237100	C. EL	10uF 16V
C450-451	UR067470	C. EL	47uF 50V
C452	UR267100	C. EL	10uF 50V
C453	UR267100	C. EL	10uF 50V
C453	UU237100	C. EL	10uF 16V
C454	UR037470	C. EL	47uF 16V
C455-456	UR067100	C. EL	10uF 50V

* New Parts

Ref No.	Part No.	Description	Markets
C457	UR037470	C. EL	47uF 16V
C458	UR037100	C. EL	10uF 16V
* C459	UR038330	C. EL	330uF 16V
C460	UR237100	C. EL	10uF 16V
C460	UU237100	C. EL	10uF 16V
C461	UR237100	C. EL	10uF 16V
C461	UU237100	C. EL	10uF 16V
C501	US046100	C. CE. CHP	1uF 25V
C502-503	US135100	C. CE. CHP	0.1uF 16V
C504	US062100	C. CE. CHP	100pF 50V B
C506	UR066220	C. EL	2.2uF 50V
C507	UR066220	C. EL	2.2uF 50V
C508	UR066220	C. EL	2.2uF 50V
C509	US062100	C. CE. CHP	100pF 50V B
C510-513	US046100	C. CE. CHP	1uF 25V
C514-516	US062100	C. CE. CHP	100pF 50V B
C517-519	US135100	C. CE. CHP	0.1uF 16V
C520-521	UR038100	C. EL	100uF 16V
C524-526	US062100	C. CE. CHP	100pF 50V B
C527	US135100	C. CE. CHP	0.1uF 16V
C528-529	US062100	C. CE. CHP	100pF 50V B
C530-531	US135100	C. CE. CHP	0.1uF 16V
C532	US062100	C. CE. CHP	100pF 50V B
C534	UR038100	C. EL	100uF 16V
C535	US064100	C. CE. CHP	0.01uF 50V B
C536	US035100	C. CE. CHP	0.1uF 16V B
C602	US135100	C. CE. CHP	0.1uF 16V
C603-604	WE100500	C. PP	100pF 630V K
C605-606	WJ603100	C. MYLAR	220pF 50V
C607	US063100	C. CE. CHP	1000pF 50V B
C608-609	UR266470	C. EL	4.7uF 50V
C610	US063100	C. CE. CHP	1000pF 50V B
C611-612	UR218220	C. EL	220uF 6.3V
C613	US063100	C. CE. CHP	1000pF 50V B
* C618-619	WJ605600	C. MYLAR	0.033uF 50V
C620	US063100	C. CE. CHP	1000pF 50V B
* C621-622	WJ604900	C. MYLAR	9100pF 50V
* C623-624	UR038330	C. EL	330uF 16V
C625-626	UR038100	C. EL	100uF 16V
C627-632	UR237100	C. EL	10uF 16V
* C635-636	WJ604100	C. MYLAR	2200pF 50V
C637-640	WE100500	C. PP	100pF 630V K
C641	US135100	C. CE. CHP	0.1uF 16V
C642	UR067470	C. EL	47uF 50V
D402-403	VU172300	DIODE. ZENR	UDZS7.5B 7.5V
* D404	WS694400	DIODE. ZENR	HZU5.6B2 TRF-E
* D405	WS696600	DIODE. ZENR	HZU10B1 TRF-E
* D406-409	WS694900	DIODE. ZENR	HZU6.2B3 TRF-E
D501	WS695500	DIODE. ZENR	HZU7.5B1 TRF-E
* D502	WS694000	DIODE. ZENR	HZU5.1B2 TRF-E
D503	WS695500	DIODE. ZENR	HZU7.5B1 TRF-E
* D506	WS694000	DIODE. ZENR	HZU5.1B2 TRF-E
D507	WS695500	DIODE. ZENR	HZU7.5B1 TRF-E
* D601-602	V9599200	DIODE. CHP	HSU119 TRF-E
* D603-610	WS694900	DIODE. ZENR	HZU6.2B3 TRF-E
* IC401	YA361A00	IC	R2A15220FP
IC402	X8235A00	IC	LC72725KM

* New Parts

P.C.B. FUNCTION and P.C.B. OPERATION

Ref No.	Part No.	Description	Markets
* IC501	YC289A00	IC	RP130Q501D-TR
* IC502	YC731A00	IC. CPU	R5F364AENFA (unwritten)
* IC503	YA765A00	IC	LE24C023M
* IC507	YC289A00	IC	RP130Q501D-TR
IC601	X3505A00	IC	NJM2068MD-TE2
IC602	X3505A00	IC	NJM2068MD-TE2
IC602	X9127A00	IC	NJM5532M-D
IC603	X3505A00	IC	NJM2068MD-TE2
IC603	X9127A00	IC	NJM5532M-D
JK601-604	WE260000	JACK. MNI	LG6501-0900FC
PJ401	WD195200	JACK. PIN	4P
PJ402	WD195100	JACK. PIN	2P
PJ403	WD195100	JACK. PIN	2P
PJ404	WD195400	JACK. PIN	6P
* PJ601-602	WD194900	JACK. PIN	RJ-1060_09-0531A
Q401-404	WC883400	TR	2SD2704 K
Q405	iC174020	TR	2SC1740S QRS
Q406	WG408900	TR	2SC5291 S, T
Q407	WG408800	TR	2SA2168 S, T
Q408	iC181510	TR	2SC1815 Y
Q409	VP872700	TR	2SC4488 S, T
Q503	VV556500	TR	2SA1037K Q, R, S
Q504	VV556500	TR	2SA1037K Q, R, S
Q505	VV556500	TR	2SA1037K Q, R, S
Q506	VV556400	TR	2SC2412K Q, R, S
Q507	VV655200	TR. DGT	DTA143EKA
Q508	VV655400	TR. DGT	DTG114EKA
Q601	WG538600	TR	KTA1046-Y-U/P
Q602	iC181510	TR	2SC1815 Y
Q607	iC181510	TR	2SC1815 Y
Q608	iA101510	TR	2SA1015 Y
R585	V8070000	R. MTL. FLM	1Ω 1W
R638-639	V8071300	R. MTL. FLM	470Ω 1W
R644	HV753560	R. CAR. FP	5.6Ω 1/4W
ST602	V4040500	SCR. TERM	M3
XL401	V2731100	RSNR. CRYST	4.332M HC-49/U
XL501	WV402100	RSNR. CE	20MHz CSTLS20MOX51
*	WV017400	P. C. B.	OPERATION
*	WV017500	P. C. B.	OPERATION
*	WV017700	P. C. B.	OPERATION
*	WV017800	P. C. B.	OPERATION
CB2	VB390100	CN. BS. PIN	5P
CB6-7	WN103000	CLIP. FUSE	TP00351-31
CB8-9	WN103000	CLIP. FUSE	TP00351-31
CB10	V9377900	CN. BS. PIN	4P
CB11	VL844800	CN. BS. PIN	4P
CB12	VL845000	CN. BS. PIN	6P
CB13	VB390500	CN. BS. PIN	9P
CB14	VL844800	CN. BS. PIN	4P
△ CB16	VG879900	CN. BS. PIN	2P
CB17	VB389900	CN. BS. PIN	3P
CB19	VB389800	CN. BS. PIN	2P
CB21	LB918020	CN. BS. PIN	2P
CB701	VQ044900	CN. BS. PIN	19P

* New Parts

Ref No.	Part No.	Description	Markets
CB706	VB858200	CN. BS. PIN	3P
CB801	VF283100	CN. BS. PIN	13P
CB803	VQ044300	CN. BS. PIN	7P
CB804	VB858700	CN. BS. PIN	8P
CB806	VB389900	CN. BS. PIN	3P
CB807	VL844700	CN. BS. PIN	3P
CB901	VQ047100	CN. BS. PIN	7P
CB902	VQ046900	CN. BS. PIN	5P
CB951	VQ046900	CN. BS. PIN	5P
C1	UR237100	C. EL	10uF 16V
C2	UR038470	C. EL	470uF 16V
C4	UU266220	C. EL	2.2uF 50V
C5	UR266220	C. EL	2.2uF 50V
C6	WJ605000	C. MYLAR	0.01uF 50V J
C7	WJ361200	C. POL. MTL	0.047uF 400V
C7	WD054200	C. POL. MTL	0.047uF 630V
C8	UU266100	C. EL	1uF 50V
* C9	WJ604500	C. MYLAR	4700pF 50V
C10	WB696300	C. POL. MTL	0.1uF 400V
C10	WF081500	C. PP	0.047uF 630V J
△ C11	V6185300	C. CE. SAFTY	0.01uF 275V
C12	WDO47300	C. EL	3300uF 50V
C13	WE102900	C. PP	0.01uF 100V J
C14	UU249330	C. EL	3300uF 25V
C15	WJ608900	C. MYLAR	1000pF 100V
* C18	UR239470	C. EL	4700uF 16V
C23-24	WHO46700	C. CE. M. CHP	4.7uF 16V
C29	WJ611400	C. MYLAR	0.1uF 100V J
C29	WN165300	C. PP	0.01uF 100V
C29	WE102900	C. PP	0.01uF 100V J
C30	WJ611400	C. MYLAR	0.1uF 100V J
C30	WN165300	C. PP	0.01uF 100V
C30	WE102900	C. PP	0.01uF 100V J
C31	URO49680	C. EL	6800uF 25V
* C31	UR259470	C. EL	4700uF 35V
C32	URO49680	C. EL	6800uF 25V
* C32	UR259470	C. EL	4700uF 35V
C33	URO67470	C. EL	47uF 50V
C34	URO58100	C. EL	100uF 35V
C35	UR267100	C. EL	10uF 50V
C35	URO67100	C. EL	10uF 50V
C36	UR267100	C. EL	10uF 50V
C36	URO67100	C. EL	10uF 50V
* C37	URO48330	C. EL	330uF 25V
C37	URO48470	C. EL	470uF 25V
* C38	URO48330	C. EL	330uF 25V
C38	URO48470	C. EL	470uF 25V
C39	URO66470	C. EL	4.7uF 50V
C701	US063100	C. CE. CHP	1000pF 50V B
C703	US063100	C. CE. CHP	1000pF 50V B
C705	US063100	C. CE. CHP	1000pF 50V B
C707	US063100	C. CE. CHP	1000pF 50V B
C708-709	US062100	C. CE. CHP	100pF 50V B
C711	US062100	C. CE. CHP	100pF 50V B
C712-713	US035100	C. CE. CHP	0.1uF 16V B
C714	UM397100	C. EL	10uF 16V
* C715-717	WQ711900	C. EL	47uF 35V

* New Parts

P.C.B. OPERATION

Ref No.	Part No.	Description	Markets
C719-720	US035100	C. CE. CHP	0. 1uF 16V B
C721	UM397470	C. EL	47uF 16V
C722	US035100	C. CE. CHP	0. 1uF 16V B
C723	US062100	C. CE. CHP	100pF 50V B
C724	US064150	C. CE. CHP	0. 015uF 50V B
C726	US064100	C. CE. CHP	0. 01uF 50V B
C728-730	WJ605000	C. MYLAR	0. 01uF 50V J
C732	US064150	C. CE. CHP	0. 015uF 50V B
C801-804	UR267100	C. EL	10uF 50V
C805-808	WE100500	C. PP	100pF 630V K
C809	UR038100	C. EL	100uF 16V UCRA
C809	UR038220	C. EL	220uF 16V G
C810	UR038100	C. EL	100uF 16V UCRA
C810	UR038220	C. EL	220uF 16V G
C813-814	UR237100	C. EL	10uF 16V
C815	UR038100	C. EL	100uF 16V UCRA
C815	UR038220	C. EL	220uF 16V G
C816	UR038100	C. EL	100uF 16V UCRA
C816	UR038220	C. EL	220uF 16V G
C819-822	UR237100	C. EL	10uF 16V
*C901-902	WJ605600	C. MYLAR	0. 033uF 50V
C903-906	VR168400	C. MYLAR	0. 12uF 50V
C907-908	UR237100	C. EL	10uF 16V
C909-910	UR038100	C. EL	100uF 16V
C911-912	WE100400	C. PP	47pF 630V K
C913-914	UR266100	C. EL	1uF 50V
C915-916	UR237100	C. EL	10uF 16V
C951-952	UR237100	C. EL	10uF 16V
C953-954	WE101500	C. PP	680pF 100V J
*C955-956	WJ605900	C. MYLAR	0. 056uF 50V
*D1-8	V9599200	DIODE. CHP	HSU119 TRF-E
*D9	WS695200	DIODE. ZENR	HZU6. 8B2 TRF-E
*D10	V2425200	DIODE. ZENR	HZU10B2
*D11	V9599200	DIODE. CHP	HSU119 TRF-E
*D12	WS694300	DIODE. ZENR	HZU5. 6B1 TRF-E
△ D13	WH471700	DIODE. BRG	DB105 1A 600V
△ D14	WH487300	DIODE. BRG	RS203M 2. 0A 200V
△ *D15	WS698200	DIODE. ZENR	HZU15B3 TRF-E R
*D18	WS697000	DIODE. ZENR	HZU11B2 TRF-E UCRA
D18	VU172700	DIODE. ZENR	UDZS11B 11V G
*D19	WS697000	DIODE. ZENR	HZU11B2 TRF-E UCRA
D19	VU172700	DIODE. ZENR	UDZS11B 11V G
*D20-21	WS698500	DIODE. ZENR	HZU16B2 TRF-E UCRA
D20-21	VU173100	DIODE. ZENR	UDZS16B 16V G
*D22	WS699800	DIODE. ZENR	HZU22B3 TRF-E UCRA
D22	VU173400	DIODE. ZENR	UDZS22B 22V G
*D23	WS700400	DIODE. ZENR	HZU30B TRF-E R
△ D24	WH471700	DIODE. BRG	DB105 1A 600V
△ D26	WH487300	DIODE. BRG	RS203M 2. 0A 200V
D703	V2598200	LED	SIR-505ST
D704	V2598200	LED	SIR-505ST UCA
*D705-706	V9599200	DIODE. CHP	HSU119 TRF-E
D709-710	VU171300	DIODE. ZENR	UDZS3. 0B 3. 0V
D714	WA467800	LED	SEL6910A-CD
*D717-720	V9599200	DIODE. CHP	HSU119 TRF-E
D801-802	WA467800	LED	SEL6910A-CD
△ *F1	WQ211100	FUSE	8A 125V UCR

* New Parts

Ref No.	Part No.	Description	Markets
△ *F1	VV071800	FUSE	4A 250V AG
△ *F4	VV071800	FUSE	4A 250V R
* IC1	YC730A00	IC	R1190H055B-T1-FE
△ * IC2-3	WJ688100	PHOT. CPL	EL816 (B)
△ IC4	iG001180	IC	TC4013BP FF
IC701	X6386A00	IC	M66003-0131FP
IC801	X3505A00	IC	NJM2068MD-TE2 UCRA
IC801	X9127A00	IC	NJM5532M-D G
IC802	X3505A00	IC	NJM2068MD-TE2 UCRA
IC802	X9127A00	IC	NJM5532M-D G
IC901	X3505A00	IC	NJM2068MD-TE2
JK701	V2700900	JACK. PHONE	JY-6317-03-030GD
Q1	WC435100	TR. DGT	KRC104S-RTK
Q2-3	WC529400	TR	KTC3875S Y GR RTK
Q4	iA101510	TR	2SA1015 Y
Q5	iC181510	TR	2SC1815 Y
△ Q6	WF691400	TR	2SD2014
△ Q7	WF691300	TR	2SB1257
Q8	iA101510	TR	2SA1015 Y
Q9	WC529400	TR	KTC3875S Y GR RTK
△ Q10	WC741200	FET	2SK3850 UCAG
Q701	VV556400	TR	2SC2412K Q, R, S
Q702	VV655400	TR. DGT	DTC114EKA
Q704	VV556400	TR	2SC2412K Q, R, S
R3	HV754390	R. CAR. FP	39Ω 1/4W
R13	HF356220	R. CAR	2. 2KΩ 1/2W
△ R18	WH819500	R. FUS	0. 47Ω 1W
R29-30	V8071900	R. MTL. OXD	3. 3KΩ 1W
△ R32-33	V8070900	R. MTL. FLM	100Ω 1W
R35	HV755100	R. CAR. FP	100Ω 1/4W
R36	HV756220	R. CAR. FP	2. 2KΩ 1/4W
△ R45	HV753220	R. CAR. FP	2. 2Ω 1/4W R
R50	HV755220	R. CAR. FP	220Ω 1/4W
R748-749	V8071300	R. MTL. FLM	470Ω 1W
R909-910	V8070300	R. MTL. FLM	10Ω 1W
△ *RY1	WQ804100	RELAY	DC DLS5D1-0 (M) 0. 25
ST1-3	V4040500	SCR. TERM	M3
ST5	V4040500	SCR. TERM	M3
ST701	WG095100	SCR. TERM	M3
ST801-802	WG095100	SCR. TERM	M3
△ SW1	VZ075500	SW. SLIDE	SL14-22AM5F R
SW701-710	WD483100	SW. TACT	SKRGAAD010
* SW711	WU974300	SW. RT. ENC	XREB12505PVB25F INA
SW712-713	WD483100	SW. TACT	SKRGAAD010 UCA
SW714-715	WD483100	SW. TACT	SKRGAAD010
* SW716	WU720700	SW. RT	SRBV181004
SW717	V3573100	SW. PUSH	SPUN120200 UCA
* SW717	WQ270000	SW. PUSH	SPUN122100 RG
SW801	VV399800	SW. PUSH	SPUN12
SW802	VA983800	SW. PUSH	SPUN
* SW851	WU974000	SW. RT. ENC	REB161 (9X7) PVB20FI
* T1	YC772A00	TRANS. SUB	
* T1	YC773A00	TRANS. SUB	
* T1	YC774A00	TRANS. SUB	
△ TE2	WB782600	INLET. AC	R-30190 (26)
U701	WK918500	L. DTCT	GP1UE271RKVF
V701	WV418900	FL. DSPLY	16-BT-164GNK

* New Parts

P.C.B. OPERATION and P.C.B. MAIN

Ref No.	Part No.	Description	Markets	Ref No.	Part No.	Description	Markets
* VR901	WP293500	VR	G 25k Ω (EVJC50FA36F4)	C139	WJ611000	C. MYLAR	0.047uF 100V AG
* VR902	WP293400	VR	B 20k Ω (EVJC50FA3B2)	C139	WJ611400	C. MYLAR	0.1uF 100V J R
* VR903	WP293600	VR	BH 100k Ω (EVJC50FA3375)	C139	WJ611400	C. MYLAR	0.1uF 100V J UCR
* VR951	WP293300	VR	A 100k Ω (EVJC20FA3A15)	C140	WJ610200	C. MYLAR	0.01uF 100V UCRA
*	WP324200	SHEET		C140	WE102900	C. PP	0.01uF 100V J G
	VR380100	SPACER	FL-T6	C141	US062100	C. CE. CHP	100pF 50V B
	WE774300	SCR. BND. HD	3x8 MFZN2W3	C142-143	WJ610200	C. MYLAR	0.01uF 100V AG
	WN440100	DAMPER	15x80 t=2	G			
* WV020600	P. C. B.	MAIN	UC	C144	VR168300	C. MYLAR	0.1uF 50V
* WV020700	P. C. B.	MAIN	R	C145	UR237100	C. EL	10uF 16V
* WV020900	P. C. B.	MAIN	A	C146	UR267100	C. EL	10uF 50V UCRA
* WV021000	P. C. B.	MAIN	G	C146	UU297330	C. EL	33uF 100V G
CB101	VB390000	CN. BS. PIN	4P	C147	UR268100	C. EL	100uF 50V UCRA
CB104	LB932050	CN. BS. PIN	5P	C147	UU297330	C. EL	33uF 100V G
CB106-107	VB858200	CN. BS. PIN	3P	C148	WJ610200	C. MYLAR	0.01uF 100V AG
C103	UR237100	C. EL	10uF 16V UCRA	C149-150	WJ608300	C. MYLAR	220pF 100V
C103	UU237100	C. EL	10uF 16V G	C151	WJ610600	C. MYLAR	0.022uF 100V
C104	UR237100	C. EL	10uF 16V UCRA	C152	WJ610200	C. MYLAR	0.01uF 100V AG
C104	UU237100	C. EL	10uF 16V G	C153	WJ610200	C. MYLAR	0.01uF 100V
C105	WE100900	C. PP	220pF 630V K	C155-156	WJ610200	C. MYLAR	0.01uF 100V AG
C106	WE100500	C. PP	100pF 630V K	C157-158	WJ608300	C. MYLAR	220pF 100V
C107-108	WE100400	C. PP	47pF 630V K	C159-160	WJ610200	C. MYLAR	0.01uF 100V AG
C109	WE100500	C. PP	100pF 630V K	C161	WJ610200	C. MYLAR	0.01uF 100V
C110	UR268100	C. EL	100uF 50V	C162-163	US135100	C. CE. CHP	0.1uF 16V
C111-112	WE101700	C. PP	1000pF 100V J	C164	VR169100	C. MYLAR	0.39uF 50V
C113	UR268100	C. EL	100uF 50V	D101-106	VD631600	D10DE	1SS133, 176
C114-115	WE100100	C. PP	15pF 630V K	Δ D107-108	VG437500	D10DE. ZENR	MTZJ5. 1C 5.1V
* C118	UR278470	C. EL	470uF 63V UCRA	D109-110	VH282500	D10DE	RLS245
C118	UR078470	C. EL	470uF 63V G	Δ * D111	WV189000	D10DE. BRG	S5VB60 3.5A 600V
* C119	UR278470	C. EL	470uF 63V UCRA	* D112	WS695900	D10DE. ZENR	HZU8. 2B1 TRF-E
C119	UR078470	C. EL	470uF 63V G	* D113	V9599200	D10DE. CHP	HSU119 TRF-E
C124	UR237470	C. EL	47uF 16V UCRA	* D114	WS695900	D10DE. ZENR	HZU8. 2B1 TRF-E
C124	UR348100	C. EL	100uF 25V G	D115-116	VS997800	D10DE	1T2
C125	UR237470	C. EL	47uF 16V UCRA	Δ * D117	V9599200	D10DE. CHP	HSU119 TRF-E
C125	UR348100	C. EL	100uF 25V G	* D118	WS695900	D10DE. ZENR	HZU8. 2B1 TRF-E
C126-129	WE100500	C. PP	100pF 630V K	* D119	V9599200	D10DE. CHP	HSU119 TRF-E
C130	UR266470	C. EL	4.7uF 50V	D120-121	VH282500	D10DE	RLS245
C131	WJ610700	C. MYLAR	0.027uF 100V UCRA	G101	V5995800	PLATE. GND	
C131	WQ209700	C. PP	0.027uF 100V G	* IC101-102	X0515B00	IC	LM61C1Z THERMAL
C132	WJ610700	C. MYLAR	0.027uF 100V UCRA	IC103	X2331A00	IC	NUM4580E OP AMP
C132	WQ209700	C. PP	0.027uF 100V G	* PJ101	WV031800	JACK. PIN	4P RJ-1073_08-0351
C133	UR218100	C. EL	100uF 6.3V UCRA	PJ102	WD195600	JACK. PIN	1P
C133	UR038100	C. EL	100uF 16V G	Q101-102	iA097030	TR	2SA970 GR, BL
C134	WG399500	C. EL	12000uF 63V UCRA	Q103-106	iC181510	TR	2SC1815 Y
C134	WJ788600	C. EL	12000uF 71V G	Δ Q107-108	WC397700	TR	2N5401C-AT
C135	WG399500	C. EL	12000uF 63V UCRA	Q109-110	iA097030	TR	2SA970 GR, BL
C135	WJ788600	C. EL	12000uF 71V G	Δ Q111-112	iA101510	TR	2SA1015 Y
C136	WJ611000	C. MYLAR	0.047uF 100V AG	Δ Q113	VE198700	TR	2SA1145 O, Y
C136	WJ611400	C. MYLAR	0.1uF 100V J R	Δ Q114-115	VE198800	TR	2SC2705 O, Y
C136	WJ611400	C. MYLAR	0.1uF 100V J UCR	Δ Q116	VE198700	TR	2SA1145 O, Y
C137	UR237470	C. EL	47uF 16V UCRA	Δ * Q117-118	WT676000	TR	2SD2705S
C137	UR038100	C. EL	100uF 16V G	Δ Q119-120	iP011600	TR. PAIR	2SA1358/C3421 O, Y
C138	UR237470	C. EL	47uF 16V UCRA	# Δ Q121-124	VP768600	TR. PAIR	2SA1694/C4467 OPY (1X615750/1X615760)
C138	UR038100	C. EL	100uF 16V G	Q125	WC139600	TR	KTC3911S GR BL
				Q126	WC435100	TR. DGT	KRC104S-RTK
				* Q127	WR859300	TR	2SA2220
				Q128	WC435100	TR. DGT	KRC104S-RTK
				* Q129	WR859300	TR	2SA2220

* New Parts

* New Parts

Note) Those parts marked with “#” are not included in the P.C.B. ass'y.

P.C.B. MAIN and P.C.B. DOCK

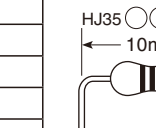
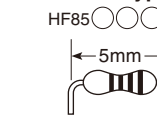
Ref No.	Part No.	Description	Markets
Q130-135	WC883400	TR	2SD2704 K
Q136	WC435100	TR. DGT	KRC104S-RTK
*Q137	WR859300	TR	2SA2220
Q140	WH372100	TR	KTA1517S GR TP
Q141	WC139600	TR	KTC3911S GR BL
△ R110-111	V8071400	R. MTL. FLM	560Ω 1W
R118-119	WN462200	R. MTL. OXD	33KΩ 1W
△ R128-131	V8070900	R. MTL. FLM	100Ω 1W
R132-133	HL005270	R. MTL. OXD	270Ω 1/2W
△ R136-137	V8070700	R. MTL. FLM	47Ω 1W
△ R138	HL006270	R. MTL. OXD	2.7KΩ 1/2W
R139	HL005680	R. MTL. OXD	680Ω 1/2W
△ R140-141	HL005820	R. MTL. OXD	820Ω 1/2W
R142	HL005680	R. MTL. OXD	680Ω 1/2W
△ R143	HL006270	R. MTL. OXD	2.7KΩ 1/2W
R144-145	HV753470	R. CAR. FP	4.7Ω 1/4W
△ R146-147	V8071100	R. MTL. FLM	220Ω 1W
R148-155	V8070200	R. MTL. FLM	4.7Ω 1W
R156-159	V3873200	R. CEMENT	0.22Ω 3W
△ R171-172	HV754100	R. CAR. FP	10Ω 1/4W
R175-176	V8070200	R. MTL. FLM	4.7Ω 1W
R183-184	HV753470	R. CAR. FP	4.7Ω 1/4W
R188	V8071200	R. MTL. OXD	330Ω 1W J
R195	V8071200	R. MTL. OXD	330Ω 1W J
△ R199-200	V8070300	R. MTL. FLM	10Ω 1W
R215	V8071200	R. MTL. OXD	330Ω 1W J
△ R221-222	HV753100	R. CAR. FP	1Ω 1/4W
R228	HV754330	R. CAR. FP	33Ω 1/4W
R230-231	V8070000	R. MTL. FLM	1Ω 1W
RY101-102	V6322600	RELAY	DC DH24D2-OT (M) -SL
RY103	WJ122400	RELAY	981-2A-24DS-SP7
ST101	V4040500	SCR. TERM	M3
SW101	V4104200	SW. SLIDE	SL13B-022-AMCS
SW102	VF541200	SW. SLIDE	SSSF11
*TE101	WU987300	TERM. SP	4P MST-224VD-02
*TE101	WU987300	TERM. SP	4P MST-224VD-02
*TE101	WU987500	TERM. SP	4P MST-224VD-02
*TE102	WU987400	TERM. SP	4P MST-224VD-03
*TE102	WU987400	TERM. SP	4P MST-224VD-03
*TE102	WU987600	TERM. SP	4P MST-224VD-03
*	WV024400	P. C. B.	DOCK
*	WV024500	P. C. B.	DOCK
CB302	V7827500	SOCKET	8P SE TUC SERIES
CB303	VF982200	CN. BS. PIN	14P
C301	US061330	C. CE. CHP	33pF 50V B
C302-303	US062220	C. CE. CHP	220pF 50V B
C304	US064100	C. CE. CHP	0.01uF 50V B
C305-306	US062220	C. CE. CHP	220pF 50V B
C307	US135100	C. CE. CHP	0.1uF 16V
C308-309	UR837100	C. EL	10uF 16V
C313	US035100	C. CE. CHP	0.1uF 16V B
C316-317	US062100	C. CE. CHP	100pF 50V B
C320	US062100	C. CE. CHP	100pF 50V B
C324	US135100	C. CE. CHP	0.1uF 16V

* New Parts

Ref No.	Part No.	Description	Markets
C327	UR037100	C. EL	10uF 16V
C328-332	WB570100	C. MYLA. CHP	0.0001uF 16V
C335-336	UR237100	C. EL	10uF 16V
C339-340	UR038100	C. EL	100uF 16V
C341	US135100	C. CE. CHP	0.1uF 16V
C342	US062100	C. CE. CHP	100pF 50V B
C343	US064100	C. CE. CHP	0.01uF 50V B
C344	UR018470	C. EL	470uF 6.3V
C345	US135100	C. CE. CHP	0.1uF 16V
C346-349	US035100	C. CE. CHP	0.1uF 16V B
C352	UR048220	C. EL	220uF 25V
C356-357	WB571300	C. MYLA. CHP	0.001uF 16V
C358	US061330	C. CE. CHP	33pF 50V B
C364	US062100	C. CE. CHP	100pF 50V B
C365	UR038100	C. EL	100uF 16V
C367	UR038100	C. EL	100uF 16V
C368	WP882000	C. CE. CHP	10uF 6.3V
*D301-302	V9599200	DIODE. CHP	HSU119 TRF-E
D303-304	V2376600	DIODE. SCHO	RB500V-40
*D307-308	V9599200	DIODE. CHP	HSU119 TRF-E
*D314	V9599200	DIODE. CHP	HSU119 TRF-E
*D315	WR897300	DIODE	RR264M-400TR
*D317	V9599200	DIODE. CHP	HSU119 TRF-E
IC301	XW814A00	IC	TC7SET32FU
*IC302	YA873A00	IC	TC7SB66FU (TE85L, F)
IC306	X8531A00	IC	TC7WZ32FK
IC309	X2331A00	IC	NJM4580E OP AMP
IC311	X6143A00	IC	NJM2388F05 5.0V
JK301	VV269500	CN	8P DIN
PJ301	VZ149900	JACK. PIN	1P
Q301	VV556500	TR	2SA1037K Q, R, S
Q305	VV655400	TR. DGT	DTC114EKA
Q306	VV655300	TR. DGT	DTA144EKA
Q307	VV655400	TR. DGT	DTC114EKA
Q308	VV655000	TR. DGT	DTA114EKA
Q309	WQ381000	FET	MCH6336-TL-E
Q310	VV655400	TR. DGT	DTC114EKA
Q311	WQ381000	FET	MCH6336-TL-E
	WE774300	SCR. BND. HD	3x8 MFZN2W3
	WK020500	DAMPER	15x40x2

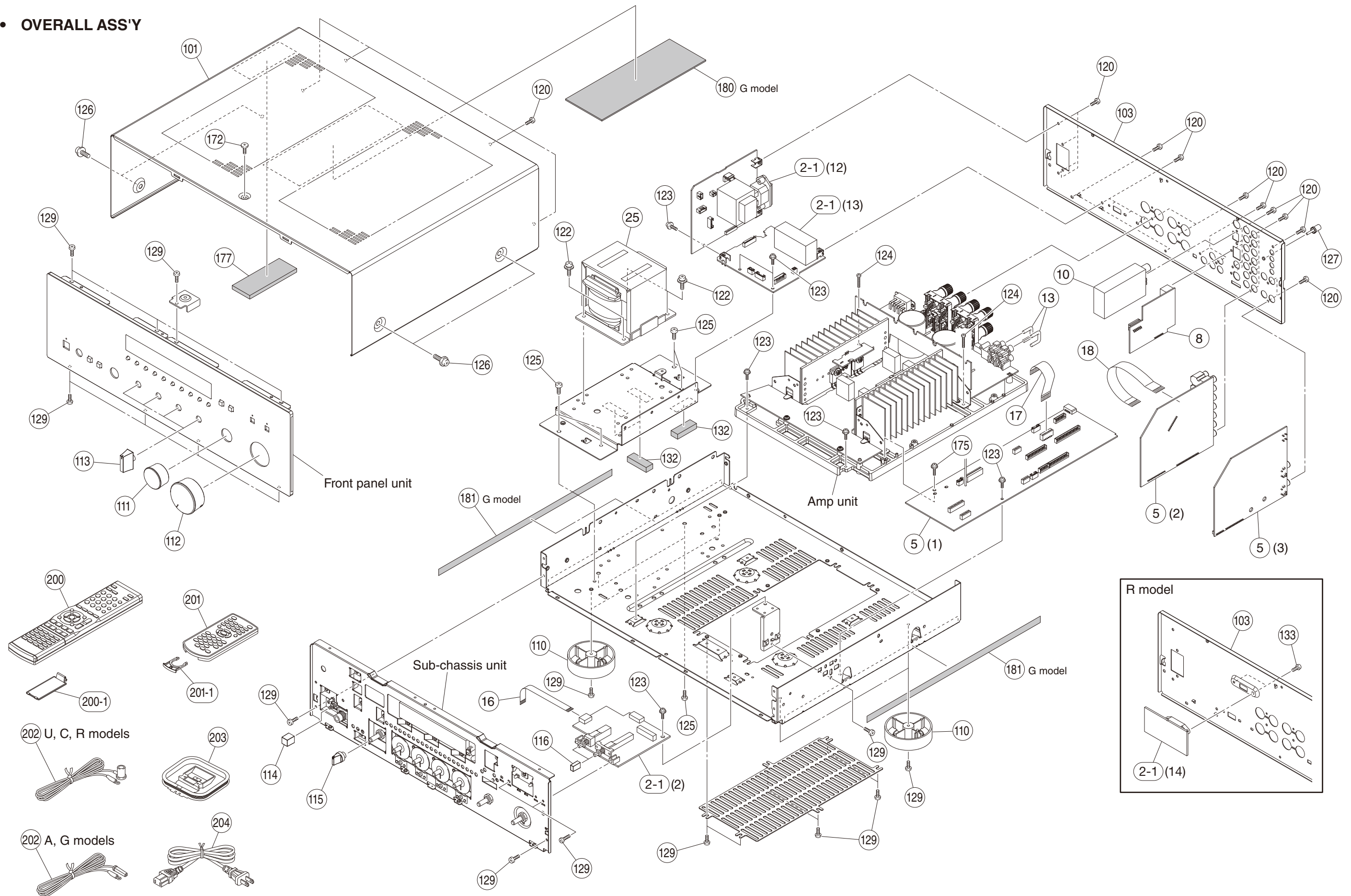
* New Parts

Carbon Resistors

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ35 3100	HF85 3100	11 kΩ	HF45 7110	HF45 7110
1.8 Ω	HJ35 3180	*	12 kΩ	HJ35 7120	HF85 7120
2.2 Ω	HJ35 3220	HF85 3220	13 kΩ	HF45 7130	HF45 7130
3.3 Ω	HJ35 3330	HF85 3330	15 kΩ	HF45 7150	HF45 7150
4.7 Ω	HJ35 3470	HF85 3470	18 kΩ	HF45 7180	HF45 7180
5.6 Ω	HJ35 3560	HF85 3560	22 kΩ	HF45 7220	HF45 7220
10 Ω	HF45 4100	HF45 4100	24 kΩ	HF45 7240	HF45 7240
15 Ω	HJ35 4150	HF85 4150	27 kΩ	HJ35 7270	HF85 7270
22 Ω	HF45 4220	HF45 4220	30 kΩ	HF45 7300	HF45 7300
27 Ω	HJ35 4270	HF85 4270	33 kΩ	HF45 7330	HF45 7330
33 Ω	HF45 4330	HF45 4330	36 kΩ	HF45 7360	HF45 7360
39 Ω	HJ35 4470	HF85 4390	39 kΩ	HF45 7390	HF45 7390
47 Ω	HF45 4470	HF45 4470	47 kΩ	HF45 7470	HF45 7470
56 Ω	HF45 4560	HF45 4560	51 kΩ	HF45 7510	HF45 7510
68 Ω	HF45 4680	HF45 4680	56 kΩ	HF45 7560	HF45 7560
75 Ω	HF45 4750	HF45 4750	62 kΩ	HF45 7620	HF45 7620
82 Ω	HF45 4820	HF45 4820	68 kΩ	HF45 7680	HF45 7680
91 Ω	HF45 4910	HF45 4910	82 kΩ	HF45 7820	HF45 7820
100 Ω	HF45 5100	HF45 5100	91 kΩ	HF45 7910	HF45 7910
110 Ω	HJ35 5110	HF85 5110	100 kΩ	HF45 8100	HF45 8100
120 Ω	HF45 5120	HF45 5120	110 kΩ	HF45 8110	HF45 8110
150 Ω	HF45 5150	HF45 5150	120 kΩ	HF45 8120	HF45 8120
160 Ω	HJ35 5160	*	130 kΩ	HF45 8130	*
180 Ω	HF45 5180	HF45 5180	150 kΩ	HF45 8150	HF45 8150
200 Ω	HF45 5200	HF45 5200	180 kΩ	HF45 8180	HF45 8180
220 Ω	HF45 5220	HF45 5220	220 kΩ	HJ35 8220	HF85 8220
270 Ω	HF45 5270	HF45 5270	270 kΩ	HF45 8270	HF45 8270
330 Ω	HF45 5330	HF45 5330	300 kΩ	HF45 8300	HF45 8300
390 Ω	HF45 5390	HF45 5390	330 kΩ	HF45 8330	HF45 8330
430 Ω	HF45 5430	HF45 5430	390 kΩ	HJ35 8390	HF85 8390
470 Ω	HF45 5470	HF45 5470	470 kΩ	HF45 8470	HF45 8470
510 Ω	HF45 5510	HF45 5510	560 kΩ	HJ35 8560	HF85 8560
560 Ω	HF45 5560	HF45 5560	680 kΩ	HJ35 8680	HF85 8680
680 Ω	HF45 5680	HF45 5680	820 kΩ	HJ35 8820	HF85 8820
820 Ω	HF45 5820	HF45 5820	1.0 MΩ	HF45 9100	HF45 9100
910 Ω	HF45 5910	HF45 5910	1.2 MΩ	HJ35 9120	*
1.0 kΩ	HF45 6100	HF45 6100	1.5 MΩ	HJ35 9150	HF85 9150
1.2 kΩ	HF45 6120	HF45 6120	1.8 MΩ	HJ35 9180	HF85 9180
1.5 kΩ	HF45 6150	HF45 6150	2.2 MΩ	HJ35 9220	HF85 9220
1.8 kΩ	HF45 6180	HF45 6180	3.3 MΩ	HJ35 9330	HF85 9330
2.0 kΩ	HJ35 6200	HF85 6200	3.9 MΩ	HJ35 9390	*
2.2 kΩ	HF45 6220	HF45 6220	4.7 MΩ	HJ35 9470	HF85 9470
2.4 kΩ	HJ35 6240	HF85 6240			
2.7 kΩ	HF45 6270	HF45 6270			
3.0 kΩ	HF45 6300	HF45 6300		1/4W Type  1/4W Type  <td></td>	
3.3 kΩ	HF45 6330	HF45 6330			
3.6 kΩ	HJ35 6360	HF85 6360			
3.9 kΩ	HF45 6390	HF45 6390			
4.7 kΩ	HF45 6470	HF45 6470			
5.1 kΩ	HF45 6510	HF45 6510			
5.6 kΩ	HF45 6560	HF45 6560			
6.8 kΩ	HF45 6680	HF45 6680			
8.2 kΩ	HF45 6820	HF45 6820			
9.1 kΩ	HF45 6910	HF45 6910			
10 kΩ	HF45 7100	HF45 7100			

※ : Not available

• OVERALL ASS'Y



	Ref No.	Part No.	Description	Remarks	Markets
	* 2-1	WV017400	P. C. B. ASS' Y	OPERATION	UC
	* 2-1	WV017500	P. C. B. ASS' Y	OPERATION	R
	* 2-1	WV017700	P. C. B. ASS' Y	OPERATION	A
	* 2-1	WV017800	P. C. B. ASS' Y	OPERATION	G
	* 5	WV014000	P. C. B. ASS' Y	FUNCTION	U
	* 5	WV014100	P. C. B. ASS' Y	FUNCTION	C
	* 5	WV014200	P. C. B. ASS' Y	FUNCTION	R
	* 5	WV014400	P. C. B. ASS' Y	FUNCTION	A
	* 5	WV014500	P. C. B. ASS' Y	FUNCTION	G
	* 8	WV024400	P. C. B. ASS' Y	DOCK	U
	* 8	WV024500	P. C. B. ASS' Y	DOCK	CRAG
	10	WQ756600	AM/FM TUNER	FAEH06-A	UCR
	10	WQ756700	AM/FM TUNER	FAEH06-E	AG
	13	VQ194100	SHORT PLUG		
	* 16	MF107140	FLEXIBLE FLAT CABLE	7P 140mm P=1.25	
	17	MF114070	FLEXIBLE FLAT CABLE	14P 70mm P=1.25	
	18	MF111100	FLEXIBLE FLAT CABLE	11P 100mm P=1.25	
△	* 25	YC884A00	POWER TRANSFORMER		UC
△	* 25	YC885A00	POWER TRANSFORMER		R
△	* 25	YC886A00	POWER TRANSFORMER		A
△	* 25	YC887A00	POWER TRANSFORMER		G
	101	WQ616500	TOP COVER	BL	
	101	WQ616600	TOP COVER	SI	
	* 103	WU936700	REAR PANEL		U
	* 103	WU936100	REAR PANEL		C
	* 103	WU936500	REAR PANEL		R
	* 103	WU936000	REAR PANEL		A
	* 103	WU936200	REAR PANEL		G
	110	WQ379900	LEG	D60 H21	
	* 111	WV002800	KNOB	INPUT	BL
	* 111	WV002700	KNOB	INPUT	SI
	* 112	WV004900	KNOB	VOLUME	BL
	* 112	WV004800	KNOB	VOLUME	SI
	113	WP083200	KNOB	TC	BL
	113	WP083100	KNOB	TC	SI
	114	WP084000	CAP	POWER	BL
	114	WP083900	CAP	POWER	SI
	115	WP083600	KNOB	SP13	BL
	115	WP083500	KNOB	SP13	SI
	* 116	WU966400	CAP	DIRECT	BL
	* 116	WU966300	CAP	DIRECT	SI
	120	WE774100	BIND HEAD BONDING B-T. SCREW	3x8 MFZN2B3	
	122	WU048900	BIND HEAD S-TIGHT SCREW	4x10 MFZN2W3	
	123	WF002600	PW HEAD B-TIGHT SCREW	3x8 MFZN2W3	
	124	WE973300	BIND HEAD B-TIGHT SCREW	3x16 MFZN2B3	
	125	WF821300	BIND HEAD S-TIGHT SCREW	4x7 MFZN2W3	
	126	VH313200	PW HEAD S-TIGHT SCREW	4x8-10 MFN13BL	BL
	126	VDO69600	PW HEAD S-TIGHT SCREW	4x8-10 MFN133	SI
	127	AA627310	GROUND TERMINAL		
	129	WE774300	BIND HEAD B-TIGHT SCREW	3x8 MFZN2W3	
	132	WQ790900	DAMPER	15x35x10	
	133	WE877900	BIND HEAD S-TIGHT SCREW	3x6 MFZN2W3	R
	172	WE200400	DISH HEAD B-TIGHT SCREW	3x6 MFN133	
	172	WE200500	DISH HEAD B-TIGHT SCREW	3x6 MFN13BL	
	175	VB770200	PW HEAD P-TIGHT SCREW	3x10-8 MFC2	
	177	WT770800	DAMPER	30x90x8	
	180	WA207100	DAMPER	70x200x2	G
	181	WQ621800	DAMPER	10x310x2	G

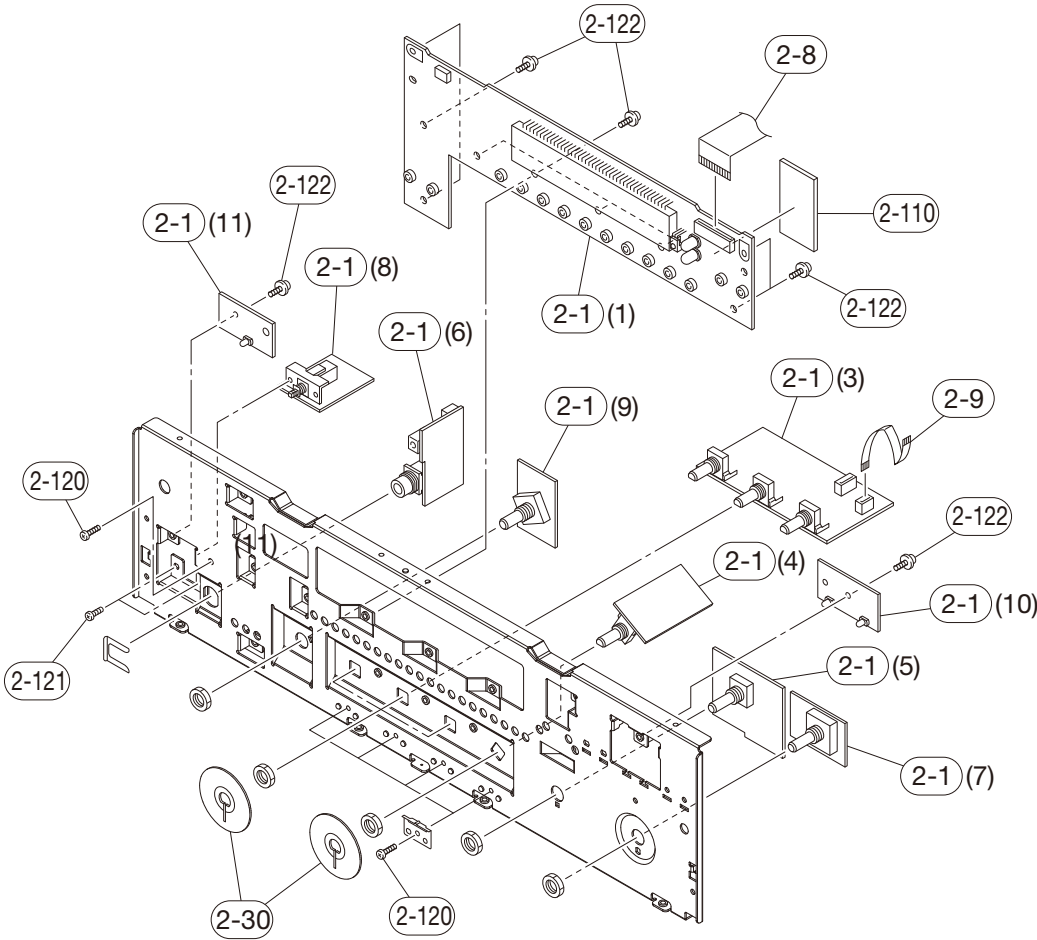
* New Parts

	Ref No.	Part No.	Description	Remarks	Markets
			ACCESSORIES		
	* 200	WV500400	REMOTE CONTROL	RAX25	000-001101460 U
	* 200	WV500500	REMOTE CONTROL	RAX26	000-001101470 RG
	* 200	WV500600	REMOTE CONTROL	RAX27	000-001101480 CA
	* 200-1	WW606600	BATTERY COVER	CG-2209 Gray	10030-0057100
	* 201	WV500700	ZONE 2 REMOTE CONTROL	RAX28	000-000820130 U
	* 201	WV500800	ZONE 2 REMOTE CONTROL	RAX29	000-000820140 CA
	* 201-1	WW606500	BATTERY HOLDER	CG-2296 Gray	10030-0057200 UCA
	202	V6267000	INDOOR FM ANTENNA	1.4m 1pc	UCR
	202	VQ147100	INDOOR FM ANTENNA	1.4m 1pc	AG
	203	VQ307400	AM LOOP ANTENNA	1.2m 1pc	
△	204	WK991800	POWER CABLE	2m 1pc	UC
△	204	WK391000	POWER CABLE	2m 1pc	R
△	204	WB750900	POWER CABLE	2m 1pc	A
△	204	WK991900	POWER CABLE	2m 1pc	G
			BATTERY	R03, AAA, UM-4 2pcs	
			LITHIUM BATTERY	CR2025 1pc	
		WR492800	SERVICE TOOL		
			RS-232C CONVERSION ADAPTOR	3.3Vtype with FFC9P	

* New Parts

R-S700

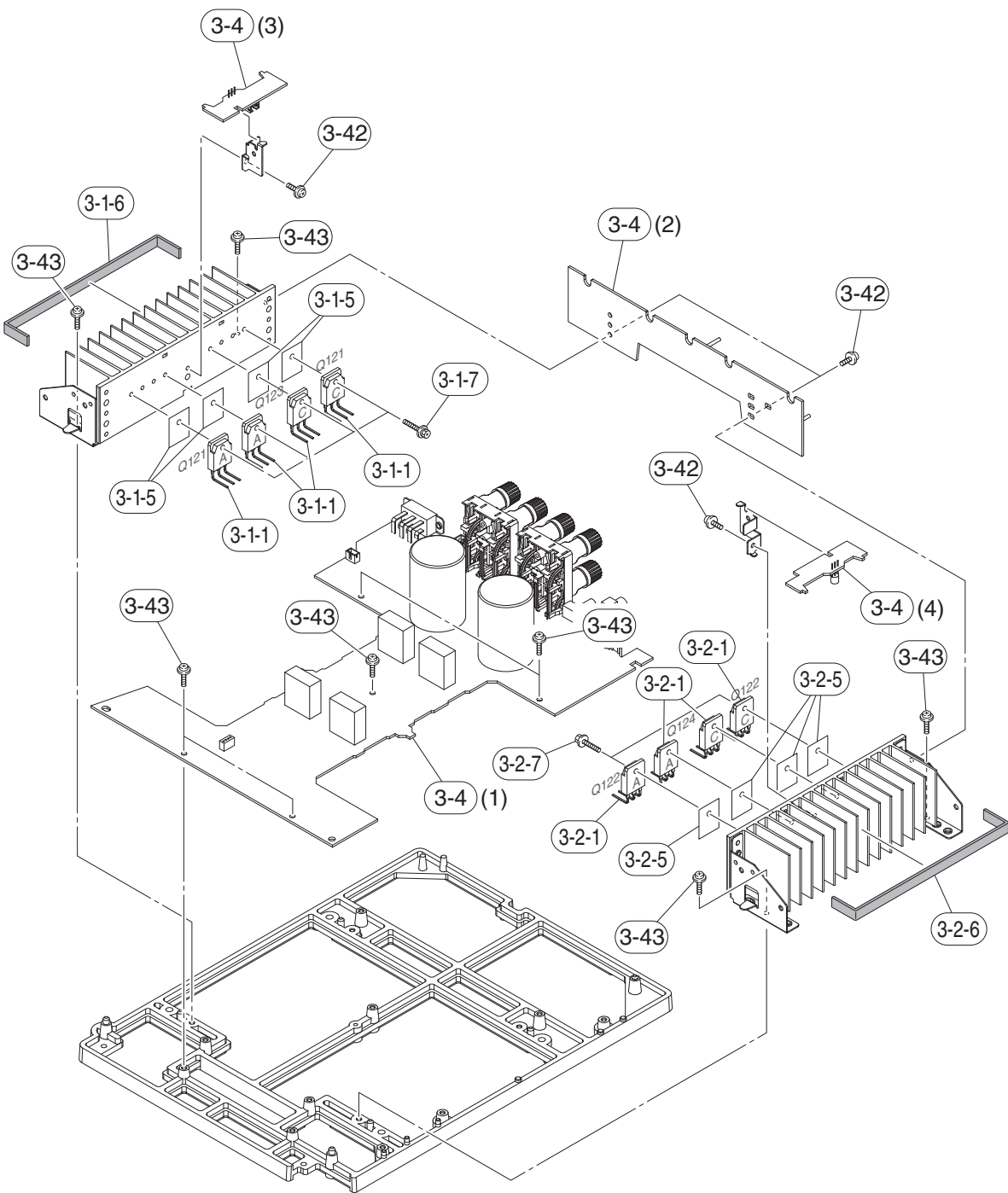
• FRONT PANEL UNIT and SUB-CHASSIS UNIT



Ref No.	Part No.	Description	Remarks	Markets
* 1-1	WU981800	FRONT PANEL	BL	U
* 1-1	WU982000	FRONT PANEL	BL	CA
* 1-1	WU982200	FRONT PANEL	BL	R
* 1-1	WV036400	FRONT PANEL	SI	R
* 1-1	WV046800	FRONT PANEL	SI	A
* 1-1	WU982100	FRONT PANEL	BL	G
* 1-1	WU981600	FRONT PANEL	SI	G
* 1-2	WU965700	SUB-PANEL	BL	UCA
* 1-2	WU965900	SUB-PANEL	BL	RG
* 1-2	WU965800	SUB-PANEL	SI	RG
* 1-2	WU965600	SUB-PANEL	SI	A
1-3	WP080600	LED LENS		
1-4	WP081200	SIDE PLATE	BL	
1-4	WP081100	SIDE PLATE	SI	
* 1-5	WW649000	LENS SUPPORT	POWER DIRECT	
* 1-6	WW649200	LENS SUPPORT		
* 1-7	WU961700	WINDOW PANEL LID		U
* 1-7	WU961600	WINDOW PANEL LID		CARG
* 2-1	WV017400	P. C. B. ASS' Y	OPERATION	UC
* 2-1	WV017500	P. C. B. ASS' Y	OPERATION	R
* 2-1	WV017700	P. C. B. ASS' Y	OPERATION	A
* 2-1	WV017800	P. C. B. ASS' Y	OPERATION	G
2-8	MF119350	FLEXIBLE FLAT CABLE	19P 350mm P=1.25	
* 2-9	MF105060	FLEXIBLE FLAT CABLE	5P 60mm P=1.25	
* 2-30	WU966500	DISC	TONE CONTROL	
2-110	V3422200	DAMPER		
2-120	WE774300	BIND HEAD B-TIGHT SCREW	3x8 MFZN2W3	
2-121	WE877900	BIND HEAD S-TIGHT SCREW	3x6 MFZN2W3	
2-122	WF002600	PW HEAD B-TIGHT SCREW	3x8 MFZN2W3	

* New Parts

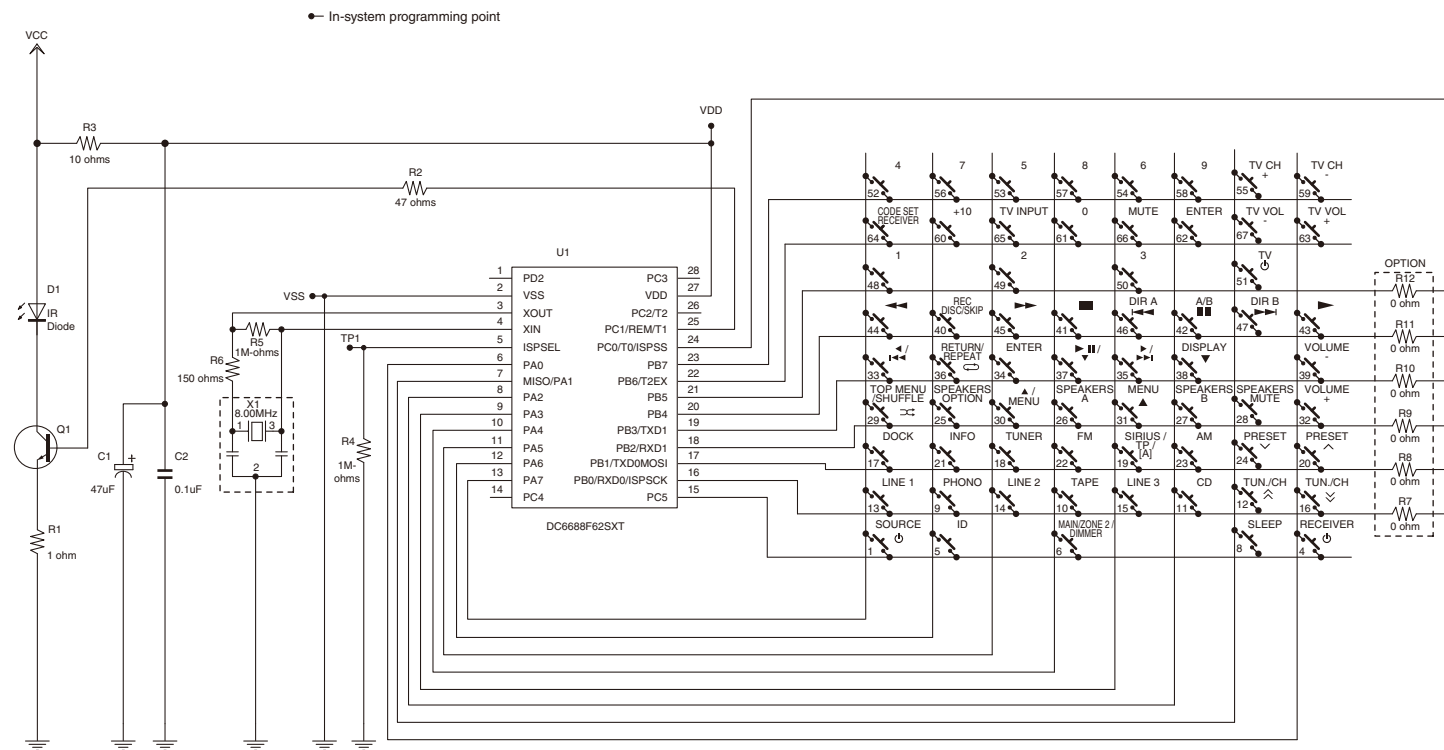
• AMP UNIT



	Ref No.	Part No.	Description	Remarks	Markets
# △	3-1-1	VP768600	PAIR TRANSISTOR	2SA1694/C4467 OPY	Q121, Q123
	3-1-5	VV849300	RADIATION SHEET	19x24	
	3-1-6	VP922500	DAMPER	2x10x170	
	3-1-7	VK173200	TRANSISTOR SCREW	3x15 SP MFC2	
# △	3-2-1	VP768600	PAIR TRANSISTOR	2SA1694/C4467 OPY	Q122, Q124
	3-2-5	VV849300	RADIATION SHEET	19x24	
	3-2-6	VP922500	DAMPER	2x10x170	
	3-2-7	VK173200	TRANSISTOR SCREW	3x15 SP MFC2	
*	3-4	WV020600	P. C. B. ASS'Y	MAIN	UC
*	3-4	WV020700	P. C. B. ASS'Y	MAIN	R
*	3-4	WV020900	P. C. B. ASS'Y	MAIN	A
*	3-4	WV021000	P. C. B. ASS'Y	MAIN	G
	3-42	WF002600	PW HEAD B-TIGHT SCREW	3x8 MFZN2W3	
	3-43	VB770200	PW HEAD P-TIGHT SCREW	3x10-8 MFC2	

* New Parts **Note)** Those parts marked with “#” are not included in the P.C.B. ass'y.

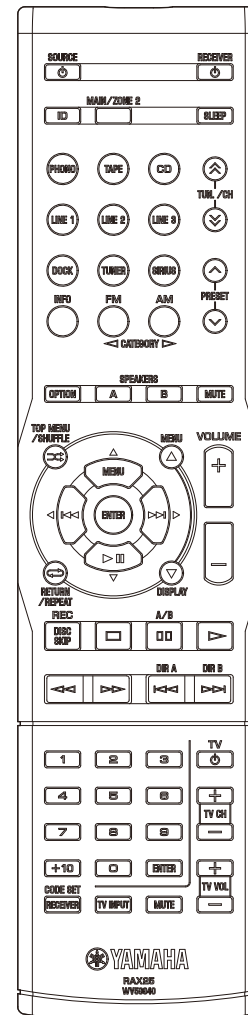
SCHEMATIC DIAGRAM



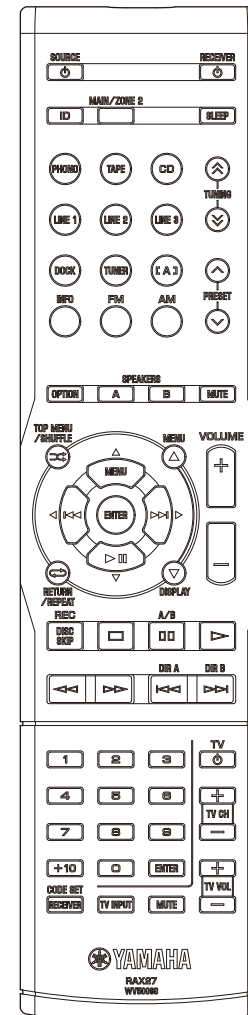
option model	R7	R8	R9	R10	R11	R12
RAX25	✓	X	X	X	X	X
RAX26	X	✓	X	X	X	X
RAX27	X	X	✓	X	X	X

PANELS

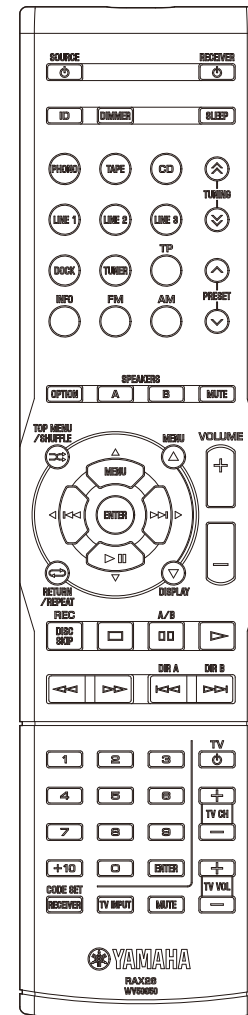
RAX25
(U model)



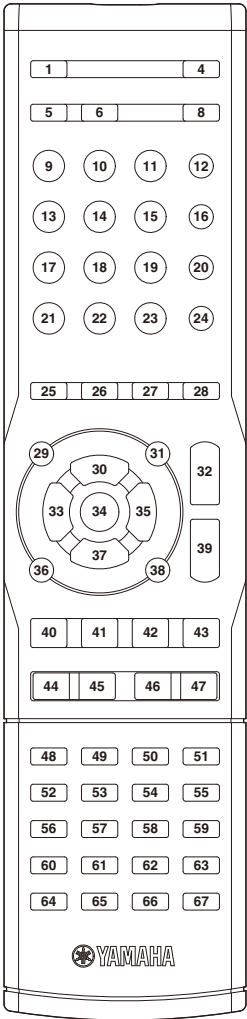
RAX27
(C, A models)



RAX26
(R, G models)



KEY NO. LAYOUT



KEY CODE (RAX25/RAX27)

Key No.	RAX25/27 FUNCTION	RECEIVER / DEVICE				SIRIUS or [A]	TUNER	DOCK	LINE3 (BD)	LINE2 (DVD)	LNE1 (CD-R)	CD	TAPE	PHONO
		MAIN		ZONE2										
		ID1	ID2 (default)	ID1	ID2 (default)									
K4	⏻ (RECEIVER)	7E 81-2A D5	7E 81-2AD4	7A 85-453A	7A 85-453B				(Default: 2064)	(Default: 2082)	(Default: 5083)	(Default: 5082)	(Default: 5087)	
K8	SLEEP	7A 85-30 CF	7A 85-30CE	7A 85-31 CE	7A 85-31CF									
K9	PHONO	7A 85-14 EB	7A 85-14EA	7A 85-D0 2F	7A 85-D02E									
K10	TAPE	7A 85-18 E7	7A 85-18E6	7A 85-D3 2C	7A 85-D32D									
K11	CD	7A 85-15 EA	7A 85-15EB	7A 85-D1 2E	7A 85-D12F									
K12	⏶ TUN./CH (RAX25) / ⏶ TUNING (RAX27)	7F01-611E	7F01-611F	7F01-621D	7F01-621C									
K13	LINE 1	7A 85-19 E6	7A 85-19E7	7A 85-D4 2B	7A 85-D42A									
K14	LINE 2	7A 85-C1 3E	7A 85-C13F	7A 85-CD 32	7A 85-CD33									
K15	LINE 3	7A 85-C0 3F	7A 85-C03E	7A 85-CC 33	7A 85-CC32									
K16	⏷ TUN./CH (RAX25) / ⏷ TUNING (RAX27)	7F01-641B	7F01-641A	7F01-651A	7F01-651B									
K17	DOCK	7F01-4A B5	7F01-4AB4	7F01-4B B4	7F01-4BB5									
K18	TUNER	7A 85-16 E9	7A 85-16E8	7A 85-D2 2D	7A 85-D22C									
K19	SIRIUS (RAX25) / [A] (RAX27)	7A 85-39 C6	7A 85-39C7	7A 85-3A C5	7A 85-3AC4									
K20	⏴ PRESET	7F01-5B24	7F01-5B25	7F01-5C23	7F01-5C22					RECEIVER				
K21	INFO	7A 85-2758	7A 85-2759	7A 85-2857	7A 85-2856									
K22	FM/CATEGORY (RAX25) / FM (RAX27)	7F01-5827	7F01-5826	7F01-5926	7F01-5927									
K23	AM/CATEGORY (RAX25) / AM (RAX27)	7F01-552A	7F01-552B	7F01-5629	7F01-5628									
K24	⏵ PRESET	7F01-5E21	7F01-5E20	7F01-5F20	7F01-5F21									
K26	SPEAKERS A	7A 85-9A 65	7A 85-9A64	—	—									
K27	SPEAKERS B	7A 85-9B 64	7A 85-9B65	—	—									
K28	MUTE	7A 85-1C E3	7A 85-1CE2	7A 85-DC 23	7A 85-DC22									
K32	VOLUME (+)	7A 85-1A E5	7A 85-1AE4	7A 85-DA 25	7A 85-DA24									
K39	VOLUME (-)	7A 85-1B E4	7A 85-1BE5	7A 85-DB 24	7A 85-DB25									
K25	OPTION	7A 85-6B14	7A 85-6B15	7A 85-6C13	7A 85-6C12									
K64	RECEIVER / CODE SET	SUCCESS: 7D 82-AA 55, FAIL: 7D 82-AB 54												
K5	ID	SUCCESS: 7D 82-AA 55, FAIL: 7D 82-AB 54												
K6	MAIN/ZONE 2	SUCCESS: 7D 82-AA 55, FAIL: 7D 82-AB 54												
K29	⏴ TOP MENU/SHUFFLE	7F01-46 B9	7F01-46B8	—	—	RECEIVER	RECEIVER	RECEIVER	7C 83-B1 4E	7C 83-B1 4E	—	—	—	RECEIVER
K30	MENU	7A 85-9D 62	7A 85-9D63	7A 85-2B54	7A 85-2B55				7C 83-B4 4B	7C 83-B4 4B	—	—	—	
K31	▲ MENU	7F01-61 9E	7F01-619F	7F01-81 7E	7F01-817F	ID1/MAIN	ID1/MAIN	ID1/MAIN	7C 83-CF 30	7C 83-B2 4D	—	—	—	ID1/MAIN
K33	⏮ (LEFT)	7A 85-9F 60	7A 85-9F61	7A 85-2D52	7A 85-2D53	ID1/ZONE2	ID1/ZONE2	ID1/ZONE2	7C 83-B5 4A	7C 83-B5 4A	—	—	—	ID1/ZONE2
K34	ENTER	7A 85-DE 21	7A 85-DE20	7A 85-2F50	7A 85-2F51	ID2/MAIN	ID2/MAIN	ID2/MAIN	7C 83-B8 47	7C 83-B8 47	—	—	—	ID2/MAIN
K35	⏭ (RIGHT)	7A 85-9E 61	7A 85-9E60	7A 85-2E51	7A 85-2E50	ID2/ZONE2	ID2/ZONE2	ID2/ZONE2	7C 83-B6 49	7C 83-B6 49	—	—	—	ID2/ZONE2
K36	RETURN/REPEAT	7A 85-AA 55	7A 85-AA54	7A 85-3C43	7A 85-3C42				7C 83-B7 48	7C 83-B7 48	—	—	—	
K37	▶ (DOWN)	7A 85-9C 63	7A 85-9C62	7A 85-2C53	7A 85-2C52				7C 83-B3 4C	7C 83-B3 4C	—	—	—	
K38	▼ DISPLAY	7F01-65 9A	7F01-659B	7F01-85 7A	7F01-857B				7C 83-A6 59	7C 83-A6 59	7F 80-9E 61	79 86-0A F5	—	
K48	1	7F01-51 AE	7F01-51AF	7F01-71 8E	7F01-718F				7C 83-94 6B	7C 83-94 6B	7F 80-91 6E	79 86-11 EE	—	
K49	2	7F01-52 AD	7F01-52AC	7F01-72 8D	7F01-728C				7C 83-95 6A	7C 83-95 6A	7F 80-92 6D	79 86-12 ED	—	
K50	3	7F01-53 AC	7F01-53AD	7F01-73 8C	7F01-738D				7C 83-96 69	7C 83-96 69	7F 80-93 6C	79 86-13 EC	—	
K52	4	7F01-54 AB	7F01-54AA	7F01-74 8B	7F01-748A				7C 83-97 68	7C 83-97 68	7F 80-94 6B	79 86-14 EB	—	
K53	5	7F01-55 AA	7F01-55AB	7F01-75 8A	7F01-758B				7C 83-98 67	7C 83-98 67	7F 85-95 6A	79 86-15 EA	—	
K54	6	7F01-56 A9	7F01-56A8	7F01-76 89	7F01-7688				7C 83-99 66	7C 83-99 66	7F 80-96 69	79 86-16 E9	—	
K56	7	7F01-57 A8	7F01-57A9	7F01-77 88	7F01-7789				7C 83-9A 65	7C 83-9A 65	7F 80-97 68	79 86-17 E8	—	
K57	8	7F01-58 A7	7F01-58A6	7F01-78 87	7F01-7886				7C 83-9B 64	7C 83-9B 64	7F 80-98 67	79 86-18 E7	—	
K58	9	7F01-59 A6	7F01-59A7	7F01-79 86	7F01-7987				7C 83-9C 63	7C 83-9C 63	7F 80-99 66	79 86-19 E6	—	
K60	+10	7F01-5B A4	7F01-5BA5	7F01-7B 84	7F01-7B85				7C 83-9D 62	7C 83-9D 62	7F 80-9A 65	79 86-1A E5	—	
K61	0	7F01-5A A5	7F01-5AA4	7F01-7A 85	7F01-7A84				7C 83-93 6C	7C 83-93 6C	7F 80-90 6F	79 86-10 EF	—	
K62	ENTER	7F01-5C A3	7F01-5CA2	7F01-7C 83	7F01-7C82				7C 83-B8 47	7C 83-B8 47	7F 80-8A 75	79 86-0B F4	—	
K1	⏻ (SOURCE)	Press to DEVICE				—	—	—	7C 83-80 7F	7C 83-80 7F	7F 80-80 7F	79 86-60 9F	—	—
K40	DISC SKIP / REC					—	—	—	7C 83-8B 74	7C 83-8B 74	—	79 86-4F B0	7A 85-04 FB	—
K41	■ (STOP)					—	—	—	7C 83-85 7A	7C 83-85 7A	7F 80-84 7B	79 86-56 A9	7A 85-03 FC	—
K42	■ ■ (PAUSE) A/B					—	—	—	7C 83-83 7C	7C 83-83 7C	7F 80-83 7C	79 86-55 AA	7A 85-06 F9	—
K43	▶ (PLAY)					—	—	—	7C 83-82 7D	7C 83-82 7D	7F 80-82 7D	79 86-02 FD	7A 85-00 FF	—
K44	⏮ (SEARCH - / REW)					—	—	—	7C 83-86 79	7C 83-86 79	7F 80-88 77	79 86-05 FA	7A 85-01 FE	—
K45	⏭ (SEARCH + / FF)					—	—	—	7C 83-87 78	7C 83-87 78	7F 80-89 76	79 86-06 F9	7A 85-02 FD	—
K46	⏮ (SKIP -) DIR A					—	—	—	7C 83-B9 46	7C 83-B9 46	7F 80-86 79	79 86-04 FB	7A 85-07 F8	—
K47	⏭ (SKIP +) DIR B					—	—	—	7C 83-BA 45	7C 83-BA 45	7F 80-87 78	79 86-07 F8	7A 85-40 BF	—
K51	⏻ TV	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)
K55	TV CH +	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)
K59	TV CH -	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)
K63	TV VOLUME +	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)
K65	TV INPUT	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)
K66	MUTE	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)
K67	TV VOLUME -	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)

KEY CODE (RAX26)

Key No.	RAX26 FUNCTION	RECEIVER / DEVICE		TUNER	DOCK	LINE3 (BD)	LINE2 (DVD)	LNE1 (CD-R)	CD	TAPE	PHONO
		ID1	ID2 (default)								
		MAIN	MAIN			(Default: 2064)	(Default: 2082)	(Default: 5083)	(Default: 5082)	(Default: 5087)	
K4	⏻ (RECEIVER)	7E 81-2A D5	7E 81-2AD4	RECEIVER							
K8	SLEEP	7A 85-30 CF	7A 85-30CE								
K9	PHONO	7A 85-14 EB	7A 85-14EA								
K10	TAPE	7A 85-18 E7	7A 85-18E6								
K11	CD	7A 85-15 EA	7A 85-15EB								
K12	⏴ TUNING	7F01-611E	7F01-611F								
K13	LINE 1	7A 85-19 E6	7A 85-19E7								
K14	LINE 2	7A 85-C1 3E	7A 85-C13F								
K15	LINE 3	7A 85-C0 3F	7A 85-C03E								
K16	⏵ TUNING	7F01-641B	7F01-641A								
K17	DOCK	7F01-4A B5	7F01-4AB4								
K18	TUNER	7A 85-16 E9	7A 85-16E8								
K19	TP (RDS)	7A 85-A5 5A	7A 85-A55B								
K20	⏴ PRESET	7F01-5B24	7F01-5B25								
K21	INFO	7A 85-2758	7A 85-2759								
K22	FM	7F01-5827	7F01-5826								
K23	AM	7F01-552A	7F01-552B								
K24	⏵ PRESET	7F01-5E21	7F01-5E20								
K26	SPEAKERS A	7A 85-9A 65	7A 85-9A64								
K27	SPEAKERS B	7A 85-9B 64	7A 85-9B65								
K28	MUTE	7A 85-1C E3	7A 85-1CE2								
K32	VOLUME (+)	7A 85-1A E5	7A 85-1AE4								
K39	VOLUME (-)	7A 85-1B E4	7A 85-1BE5								
K25	OPTION	7A 85-6B14	7A 85-6B15								
K64	RECEIVER / CODE SET	SUCCESS: 7D 82-AA 55, FAIL: 7D 82-AB 54									
K5	ID	SUCCESS: 7D 82-AA 55, FAIL: 7D 82-AB 54									
K6	DIMMER	7A 85-82FD	7A 85-82FC								
K29	⏴ TOP MENU/SHUFFLE	7F01-46 B9	7F01-46B8	RECEIVER	RECEIVER	7C 83-B1 4E	7C 83-B1 4E	—	—	—	RECEIVER
K30	MENU	7A 85-9D 62	7A 85-9D63			7C 83-B4 4B	7C 83-B4 4B	—	—	—	
K31	▲ MENU	7F01-61 9E	7F01-619F	ID1/MAIN	ID1/MAIN	7C 83-CF 30	7C 83-B2 4D	—	—	—	ID1/MAIN
K33	⏴ (LEFT)	7A 85-9F 60	7A 85-9F61	ID1/ZONE2	ID1/ZONE2	7C 83-B5 4A	7C 83-B5 4A	—	—	—	ID1/ZONE2
K34	ENTER	7A 85-DE 21	7A 85-DE20	ID2/MAIN	ID2/MAIN	7C 83-B8 47	7C 83-B8 47	—	—	—	ID2/MAIN
K35	▶▶ (RIGHT)	7A 85-9E 61	7A 85-9E60	ID2/ZONE2	ID2/ZONE2	7C 83-B6 49	7C 83-B6 49	—	—	—	ID2/ZONE2
K36	RETURN/REPEAT	7A 85-AA 55	7A 85-AA54			7C 83-B7 48	7C 83-B7 48	—	—	—	
K37	▶▶ (DOWN)	7A 85-9C 63	7A 85-9C62			7C 83-B3 4C	7C 83-B3 4C	—	—	—	
K38	▼ DISPLAY	7F01-65 9A	7F01-659B			7C 83-A6 59	7C 83-A6 59	7F 80-9E 61	79 86-0A F5	—	
K48	1	7F01-51 AE	7F01-51AF			7C 83-94 6B	7C 83-94 6B	7F 80-91 6E	79 86-11 EE	—	
K49	2	7F01-52 AD	7F01-52AC			7C 83-95 6A	7C 83-95 6A	7F 80-92 6D	79 86-12 ED	—	
K50	3	7F01-53 AC	7F01-53AD			7C 83-96 69	7C 83-96 69	7F 80-93 6C	79 86-13 EC	—	
K52	4	7F01-54 AB	7F01-54AA			7C 83-97 68	7C 83-97 68	7F 80-94 6B	79 86-14 EB	—	
K53	5	7F01-55 AA	7F01-55AB			7C 83-98 67	7C 83-98 67	7F 85-95 6A	79 86-15 EA	—	
K54	6	7F01-56 A9	7F01-56A8			7C 83-99 66	7C 83-99 66	7F 80-96 69	79 86-16 E9	—	
K56	7	7F01-57 A8	7F01-57A9			7C 83-9A 65	7C 83-9A 65	7F 80-97 68	79 86-17 E8	—	
K57	8	7F01-58 A7	7F01-58A6			7C 83-9B 64	7C 83-9B 64	7F 80-98 67	79 86-18 E7	—	
K58	9	7F01-59 A6	7F01-59A7			7C 83-9C 63	7C 83-9C 63	7F 80-99 66	79 86-19 E6	—	
K60	+10	7F01-5B A4	7F01-5BA5			7C 83-9D 62	7C 83-9D 62	7F 80-9A 65	79 86-1A E5	—	
K61	0	7F01-5A A5	7F01-5AA4			7C 83-93 6C	7C 83-93 6C	7F 80-90 6F	79 86-10 EF	—	
K62	ENTER	7F01-5C A3	7F01-5CA2			7C 83-B8 47	7C 83-B8 47	7F 80-8A 75	79 86-0B F4	—	
K1	⏻ (SOURCE)	Press to DEVICE		—	—	7C 83-80 7F	7C 83-80 7F	7F 80-80 7F	79 86-60 9F	—	—
K40	DISC SKIP / REC			—	—	7C 83-8B 74	7C 83-8B 74	—	79 86-4F B0	7A 85-04 FB	—
K41	■ (STOP)			—	—	7C 83-85 7A	7C 83-85 7A	7F 80-84 7B	79 86-56 A9	7A 85-03 FC	—
K42	■ (PAUSE) A/B			—	—	7C 83-83 7C	7C 83-83 7C	7F 80-83 7C	79 86-55 AA	7A 85-06 F9	—
K43	▶ (PLAY)			—	—	7C 83-82 7D	7C 83-82 7D	7F 80-82 7D	79 86-02 FD	7A 85-00 FF	—
K44	⏴ (SEARCH - / REW)			—	—	7C 83-86 79	7C 83-86 79	7F 80-88 77	79 86-05 FA	7A 85-01 FE	—
K45	▶▶ (SEARCH + / FF)			—	—	7C 83-87 78	7C 83-87 78	7F 80-89 76	79 86-06 F9	7A 85-02 FD	—
K46	⏴ (SKIP -) DIR A			—	—	7C 83-B9 46	7C 83-B9 46	7F 80-86 79	79 86-04 FB	7A 85-07 F8	—
K47	▶▶ (SKIP +) DIR B			—	—	7C 83-BA 45	7C 83-BA 45	7F 80-87 78	79 86-07 F8	7A 85-40 BF	—
K51	⏻ TV	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)	(TV POWER A)
K55	TV CH +	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)	(TV CH + A)
K59	TV CH -	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)	(TV CH - A)
K63	TV VOLUME +	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)	(TV VOL + A)
K65	TV INPUT	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)	(TV INPUT A)
K66	MUTE	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)	(TV MUTE A)
K67	TV VOLUME -	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)	(TV VOL - A)

PRESET CODE

How to set the preset method	RAX25	1st.	Press and hold K64 [CODE SET] key on the RC for more than 3 seconds.	(Choose the preset area)
	RAX26	2nd	Press the "INPUT" key (K10 [TAPE] or K11 [CD] or K13 [LINE1] or K14 [LINE2] or K15 [LINE3]).	
		3rd	Press the "numeric" key of the preset code number.	
	RAX27	1st.	Press and hold K64 [CODE SET] key on the RC for more than 3 seconds.	(Choose the preset area)
		2nd	Press the "INPUT" key (K10 [TAPE] or K11 [CD] or K13 [LINE1] or K14 [LINE2] or K15 [LINE3] or K19 [[A]])	
		3rd	Press the "numeric" key of the preset code number.	

How to set the TV preset method	1st.	Press and hold K64 [CODE SET] key on the RC for more than 3 seconds.	(Choose the preset area)
	2nd	Press the K51 [TV POWER] key.	
	3rd	Press the "numeric" key of the preset code number.	

How to reset all remote control codes	1st.	Press and hold K64 [CODE SET] key on the RC for more than 3 seconds.
	2nd	Press the K25 [OPTION] key.
	3rd	Press the numeric buttons to enter the code number "9981".

How to 30 sec. ON (Default)	1st.	Press and hold K64 [CODE SET] key on the RC for more than 3 seconds.
	2nd	Press the K25 [OPTION] key.
	3rd	Press the numeric buttons to enter the code number "9999".

How to 30 sec. OFF (Continue to transmit permanent)	1st.	Press and hold "K28 (MUTE)"
	2nd	Press and release "K21 (INFO)"
	3nd	iii. Press and release "K22 (FM/CATEGORY DOWN)"

PRESET AREA		SIRIUS or [A]	TUNER	DOCK	LINE3	LINE2	LINE1	CD	TAPE	PHONO	TV POWER
	RAX25	Impossible	Impossible	Impossible	Possible	Possible	Possible	Possible	Possible	Impossible	Possible
	RAX26	Impossible	Impossible	Impossible	Possible	Possible	Possible	Possible	Possible	Impossible	Possible
	RAX27	Possible	Impossible	Impossible	Possible	Possible	Possible	Possible	Possible	Impossible	Possible

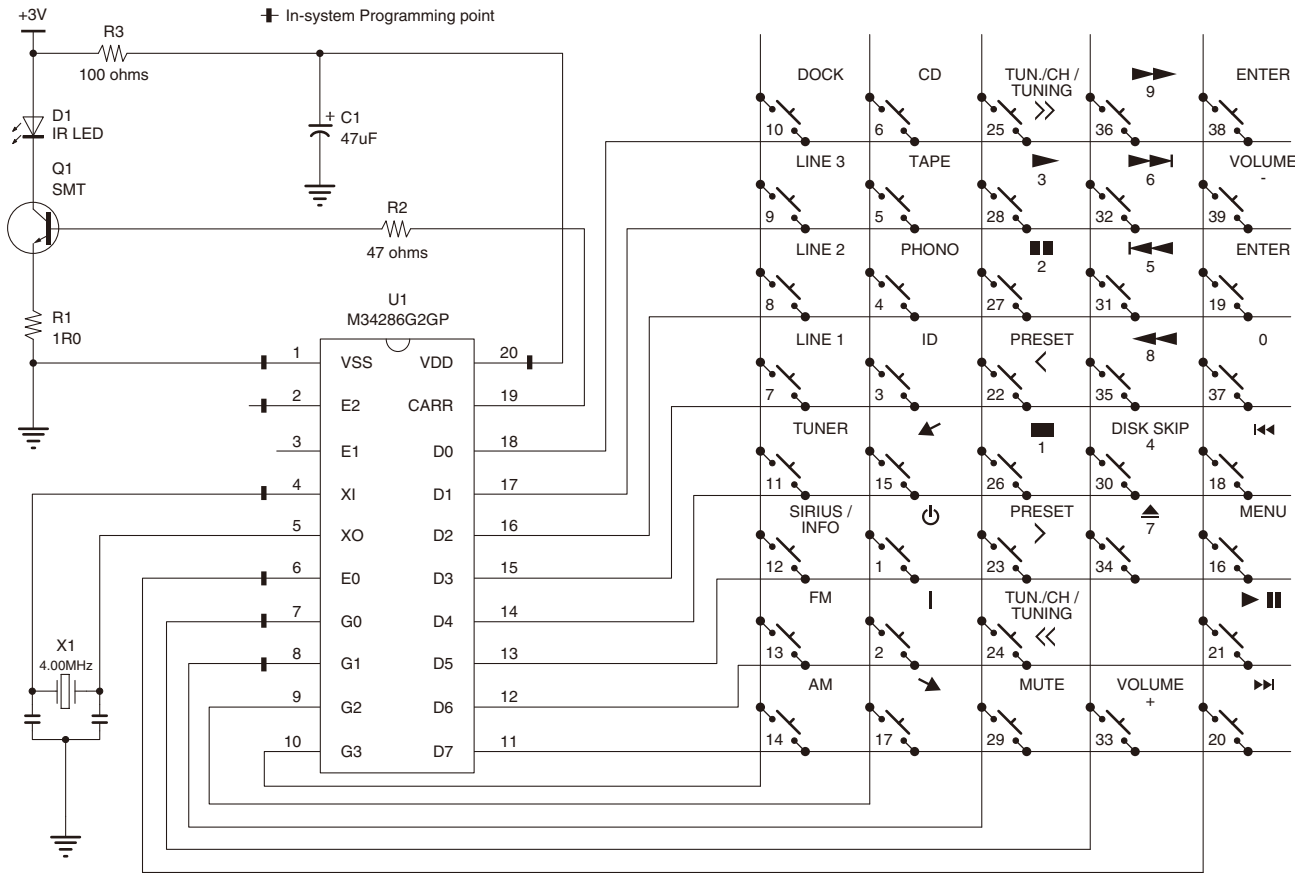
RAX25, RAX27

Key No.	Label	SIRIUS or [A]	TUNER	DOCK	LINE3 (BD)	LINE2 (DVD)	LINE1 (CD-R)	CD	TAPE	PHONO	TV POWER
		ID2 (Default)	ID2 (Default)	ID2 (Default)	2064 MAIN	2082 MAIN	5067 MAIN	5085 MAIN	0082 MAIN	ID2 (Default)	0080 MAIN
K1	⊕ (SOURCE)	—	—	—	7C 83-80 7F	7C 83-80 7F	7F01-D0 2F	D1 2E-1B E4	* empty *	—	* empty *
K29	⏮ TOP MENU/SHUFFLE	7F01-46B8	7F01-46B8	7F01-46B8	7C 83-B1 4E	7C 83-B1 4E	7F01-DD 22	7A 85-AE 51	—	7F01-46B8	—
K31	▲ MENU	7F01-619F	7F01-619F	7F01-619F	7C 83-CF 30	7C 83-B2 4D	7F01-DE 21	7A 85-AB 54	D1 2E D3 2C	7F01-619F	50 AF 70 8F
K30	MENU	7A 85-9D63	7A 85-9D63	7A 85-9D63	7C 83-B4 4B	7C 83-B4 4B	7F01-E1 1E	7A 85-10 EF	D1 2E CC 33	7A 85-9D63	50 AF 53 AC
K33	◀ (LEFT)	7A 85-9F61	7A 85-9F61	7A 85-9F61	7C 83-B5 4A	7C 83-B5 4A	7F01-E2 1D	7A 85-AC 53	D1 2E CE 31	7A 85-9F61	50 AF 73 8C
K34	ENTER	7A 85-DE20	7A 85-DE20	7A 85-DE20	7C 83-B8 47	7C 83-B8 47	7F01-E3 1C	7A 85-AD 52	D1 2E D0 2F	7A 85-DE20	50 AF 33 CC
K35	▶ (RIGHT)	7A 85-9E60	7A 85-9E60	7A 85-9E60	7C 83-B6 49	7C 83-B6 49	7F01-E4 1B	7A 85-12 ED	D1 2E CF 30	7A 85-9E60	50 AF 72 8D
K36	RETURN/REPEAT	7A 85-AA54	7A 85-AA54	7A 85-AA54	7C 83-B7 48	7C 83-B7 48	7F01-DF 20	7A 85-AF 50	D1 2E D5 2A	7A 85-AA54	50 AF 0A F5
K37	▶⏮ (DOWN)	7A 85-9C62	7A 85-9C62	7A 85-9C62	7C 83-B3 4C	7C 83-B3 4C	7F01-E5 1A	7A 85-11 EE	D1 2E CD 32	7A 85-9C62	50 AF 71 8E
K38	▼ DISPLAY	7F01-659B	7F01-659B	7F01-659B	7C 83-A6 59	7C 83-A6 59	7F01-E0 1F	7A 85-B0 4F	—	7F01-659B	50 AF 10 EF
K40	DISC SKIP / REC	—	—	—	7C 83-8B 74	7C 83-8B 74	7F01-E6 19	—	* empty *	—	* empty *
K41	■ (STOP)	—	—	—	7C 83-85 7A	7C 83-85 7A	7F01-E9 16	—	* empty *	—	* empty *
K42	■ (PAUSE) A/B	—	—	—	7C 83-83 7C	7C 83-83 7C	7F01-E7 18	—	* empty *	—	* empty *
K43	▶ (PLAY)	—	—	—	7C 83-82 7D	7C 83-82 7D	7F01-E8 17	—	* empty *	—	* empty *
K44	◀ (SEARCH - / REW)	—	—	—	7C 83-86 79	7C 83-86 79	7F01-EA 15	—	* empty *	—	* empty *
K45	▶ (SEARCH + / FF)	—	—	—	7C 83-87 78	7C 83-87 78	7F01-EB 14	7A 85-A5 5A	* empty *	—	* empty *
K46	◀ (SKIP -) DIR A	—	—	—	7C 83-B9 46	7C 83-B9 46	7F01-EC 13	7A 85-A6 59	* empty *	—	* empty *
K47	▶ (SKIP +) DIR B	—	—	—	7C 83-BA 45	7C 83-BA 45	7F01-ED 12	7A 85-A7 58	* empty *	—	* empty *
K48	1	7F01-51AF	7F01-51AF	7F01-51AF	7C 83-94 6B	7C 83-94 6B	7F01-D1 2E	7A 85-E5 1A	D1 2E E1 1E	7F01-51AF	50 AF 0D F2
K49	2	7F01-52AC	7F01-52AC	7F01-52AC	7C 83-95 6A	7C 83-95 6A	7F01-D2 2D	7A 85-E6 19	D1 2E E2 1D	7F01-52AC	50 AF 0E F1
K50	3	7F01-53AD	7F01-53AD	7F01-53AD	7C 83-96 69	7C 83-96 69	7F01-D3 2C	7A 85-E7 18	D1 2E E3 1C	7F01-53AD	50 AF 0F F0
K52	4	7F01-54AA	7F01-54AA	7F01-54AA	7C 83-97 68	7C 83-97 68	7F01-D4 2B	7A 85-E8 17	D1 2E E4 1B	7F01-54AA	50 AF 1C E3
K53	5	7F01-55AB	7F01-55AB	7F01-55AB	7C 83-98 67	7C 83-98 67	7F01-D5 2A	7A 85-E9 16	D1 2E E5 1A	7F01-55AB	50 AF 1D E2
K54	6	7F01-56A8	7F01-56A8	7F01-56A8	7C 83-99 66	7C 83-99 66	7F01-D6 29	7A 85-EA 15	D1 2E E6 19	7F01-56A8	50 AF 1E E1
K56	7	7F01-57A9	7F01-57A9	7F01-57A9	7C 83-9A 65	7C 83-9A 65	7F01-D7 28	7A 85-EB 14	—	7F01-57A9	50 AF 1F E0
K57	8	7F01-58A6	7F01-58A6	7F01-58A6	7C 83-9B 64	7C 83-9B 64	7F01-D8 27	7A 85-EC 13	—	7F01-58A6	50 AF 04 FB
K58	9	7F01-59A7	7F01-59A7	7F01-59A7	7C 83-9C 63	7C 83-9C 63	7F01-D9 26	7A 85-B1 4E	—	7F01-59A7	50 AF 05 FA
K60	+10	7F01-5BA5	7F01-5BA5	7F01-5BA5	7C 83-9D 62	7C 83-9D 62	7F01-DB 24	—	—	7F01-5BA5	50 AF 06 F9
K61	0	7F01-5AA4	7F01-5AA4	7F01-5AA4	7C 83-93 6C	7C 83-93 6C	7F01-DA 25	7A 85-B2 4D	—	7F01-5AA4	50 AF 0C F3
K62	ENTER	7F01-5CA2	7F01-5CA2	7F01-5CA2	7C 83-9E 61	7C 83-9E 61	7F01-DC 23	7A 85-B3 4C	—	7F01-5CA2	50 AF 06 F9
K51	⊕ TV	50 AF 17 E8	50 AF 17 E8	50 AF 17 E8	50 AF 17 E8	50 AF 17 E8	50 AF 17 E8	50 AF 17 E8	D1 2E C2 3D	50 AF 17 E8	50 AF 17 E8
K55	TV CH +	50 AF 19 E6	50 AF 19 E6	50 AF 19 E6	50 AF 19 E6	50 AF 19 E6	50 AF 19 E6	50 AF 19 E6	—	50 AF 19 E6	50 AF 19 E6
K59	TV CH -	50 AF 18 E7	50 AF 18 E7	50 AF 18 E7	50 AF 18 E7	50 AF 18 E7	50 AF 18 E7	50 AF 18 E7	—	50 AF 18 E7	50 AF 18 E7
K63	TV VOLUME +	50 AF 12 ED	50 AF 12 ED	50 AF 12 ED	50 AF 12 ED	50 AF 12 ED	50 AF 12 ED	50 AF 12 ED	—	50 AF 12 ED	50 AF 12 ED
K65	TV INPUT	50 AF 09 F6	50 AF 09 F6	50 AF 09 F6	50 AF 09 F6	50 AF 09 F6	50 AF 09 F6	50 AF 09 F6	D1 2E D6 29	50 AF 09 F6	50 AF 09 F6
K66	MUTE	50 AF 0B F4	50 AF 0B F4	50 AF 0B F4	50 AF 0B F4	50 AF 0B F4	50 AF 0B F4	50 AF 0B F4	—	50 AF 0B F4	50 AF 0B F4
K67	TV VOLUME -	50 AF 15 EA	50 AF 15 EA	50 AF 15 EA	50 AF 15 EA	50 AF 15 EA	50 AF 15 EA	50 AF 15 EA	—	50 AF 15 EA	50 AF 15 EA

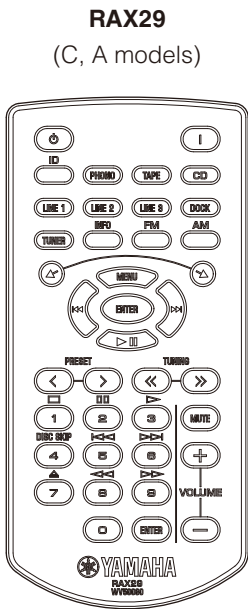
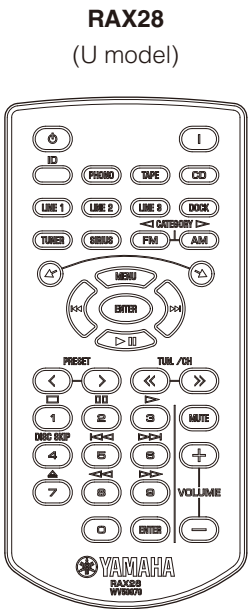
RAX26

Key No.	Label	SIRIUS or [A]	TUNER	DOCK	LINE3 (BD) 2064	LINE2 (DVD) 2082	LINE1 (CD-R) 5067	CD 5085	TAPE 0082	PHONO	TV POWER 0080
		ID2 (Default)	ID2 (Default)	ID2 (Default)	MAIN	MAIN	MAIN	MAIN	MAIN	ID2 (Default)	
K1	⏻ (SOURCE)	Press to DEVICE	–	–	7C 83-80 7F	7C 83-80 7F	7F01-D0 2F	D1 2E-1B E4	* empty *	–	* empty *
K29	⏮ TOP MENU/SHUFFLE	7F01-46B8	7F01-46B8	7F01-46B8	7C 83-B1 4E	7C 83-B1 4E	7F01-DD 22	7A 85-AE 51	–	7F01-46B8	–
K31	▲ MENU	7F01-619F	7F01-619F	7F01-619F	7C 83-CF 30	7C 83-B2 4D	7F01-DE 21	7A 85-AB 54	D1 2E D3 2C	7F01-619F	50 AF 70 8F
K30	MENU	7A 85-9D63	7A 85-9D63	7A 85-9D63	7C 83-B4 4B	7C 83-B4 4B	7F01-E1 1E	7A 85-10 EF	D1 2E CC 33	7A 85-9D63	50 AF 53 AC
K33	⏮ (LEFT)	7A 85-9F61	7A 85-9F61	7A 85-9F61	7C 83-B5 4A	7C 83-B5 4A	7F01-E2 1D	7A 85-AC 53	D1 2E CE 31	7A 85-9F61	50 AF 73 8C
K34	ENTER	7A 85-DE20	7A 85-DE20	7A 85-DE20	7C 83-B8 47	7C 83-B8 47	7F01-E3 1C	7A 85-AD 52	D1 2E D0 2F	7A 85-DE20	50 AF 33 CC
K35	⏭ (RIGHT)	7A 85-9E60	7A 85-9E60	7A 85-9E60	7C 83-B6 49	7C 83-B6 49	7F01-E4 1B	7A 85-12 ED	D1 2E CF 30	7A 85-9E60	50 AF 72 8D
K36	RETURN/REPEAT	7A 85-AA54	7A 85-AA54	7A 85-AA54	7C 83-B7 48	7C 83-B7 48	7F01-DF 20	7A 85-AF 50	D1 2E D5 2A	7A 85-AA54	50 AF 0A F5
K37	⏮ (DOWN)	7A 85-9C62	7A 85-9C62	7A 85-9C62	7C 83-B3 4C	7C 83-B3 4C	7F01-E5 1A	7A 85-11 EE	D1 2E CD 32	7A 85-9C62	50 AF 71 8E
K38	▼ DISPLAY	7F01-659B	7F01-659B	7F01-659B	7C 83-A6 59	7C 83-A6 59	7F01-E0 1F	7A 85-B0 4F	–	7F01-659B	50 AF 10 EF
K40	DISC SKIP / REC	Press to DEVICE	–	–	7C 83-8B 74	7C 83-8B 74	7F01-E6 19	–	* empty *	–	* empty *
K41	■ (STOP)	Press to DEVICE	–	–	7C 83-85 7A	7C 83-85 7A	7F01-E9 16	–	* empty *	–	* empty *
K42	■ (PAUSE) A/B	Press to DEVICE	–	–	7C 83-83 7C	7C 83-83 7C	7F01-E7 18	–	* empty *	–	* empty *
K43	▶ (PLAY)	Press to DEVICE	–	–	7C 83-82 7D	7C 83-82 7D	7F01-E8 17	–	* empty *	–	* empty *
K44	⏮ (SEARCH - / REW)	Press to DEVICE	–	–	7C 83-86 79	7C 83-86 79	7F01-EA 15	–	* empty *	–	* empty *
K45	⏭ (SEARCH + / FF)	Press to DEVICE	–	–	7C 83-87 78	7C 83-87 78	7F01-EB 14	7A 85-A5 5A	* empty *	–	* empty *
K46	⏮ (SKIP -) DIR A	Press to DEVICE	–	–	7C 83-B9 46	7C 83-B9 46	7F01-EC 13	7A 85-A6 59	* empty *	–	* empty *
K47	⏭ (SKIP +) DIR B	Press to DEVICE	–	–	7C 83-BA 45	7C 83-BA 45	7F01-ED 12	7A 85-A7 58	* empty *	–	* empty *
K48	1	7F01-51AF	7F01-51AF	7F01-51AF	7C 83-94 6B	7C 83-94 6B	7F01-D1 2E	7A 85-E5 1A	D1 2E E1 1E	7F01-51AF	50 AF 0D F2
K49	2	7F01-52AC	7F01-52AC	7F01-52AC	7C 83-95 6A	7C 83-95 6A	7F01-D2 2D	7A 85-E6 19	D1 2E E2 1D	7F01-52AC	50 AF 0E F1
K50	3	7F01-53AD	7F01-53AD	7F01-53AD	7C 83-96 69	7C 83-96 69	7F01-D3 2C	7A 85-E7 18	D1 2E E3 1C	7F01-53AD	50 AF 0F F0
K52	4	7F01-54AA	7F01-54AA	7F01-54AA	7C 83-97 68	7C 83-97 68	7F01-D4 2B	7A 85-E8 17	D1 2E E4 1B	7F01-54AA	50 AF 1C E3
K53	5	7F01-55AB	7F01-55AB	7F01-55AB	7C 83-98 67	7C 83-98 67	7F01-D5 2A	7A 85-E9 16	D1 2E E5 1A	7F01-55AB	50 AF 1D E2
K54	6	7F01-56A8	7F01-56A8	7F01-56A8	7C 83-99 66	7C 83-99 66	7F01-D6 29	7A 85-EA 15	D1 2E E6 19	7F01-56A8	50 AF 1E E1
K56	7	7F01-57A9	7F01-57A9	7F01-57A9	7C 83-9A 65	7C 83-9A 65	7F01-D7 28	7A 85-EB 14	–	7F01-57A9	50 AF 1F E0
K57	8	7F01-58A6	7F01-58A6	7F01-58A6	7C 83-9B 64	7C 83-9B 64	7F01-D8 27	7A 85-EC 13	–	7F01-58A6	50 AF 04 FB
K58	9	7F01-59A7	7F01-59A7	7F01-59A7	7C 83-9C 63	7C 83-9C 63	7F01-D9 26	7A 85-B1 4E	–	7F01-59A7	50 AF 05 FA
K60	+10	7F01-5BA5	7F01-5BA5	7F01-5BA5	7C 83-9D 62	7C 83-9D 62	7F01-DB 24	–	–	7F01-5BA5	50 AF 06 F9
K61	0	7F01-5AA4	7F01-5AA4	7F01-5AA4	7C 83-93 6C	7C 83-93 6C	7F01-DA 25	7A 85-B2 4D	–	7F01-5AA4	50 AF 0C F3
K62	ENTER	7F01-5CA2	7F01-5CA2	7F01-5CA2	7C 83-9E 61	7C 83-9E 61	7F01-DC 23	7A 85-B3 4C	–	7F01-5CA2	50 AF 06 F9
K51	⏻ TV	50 AF 17 E8	50 AF 17 E8	50 AF 17 E8	50 AF 17 E8	50 AF 17 E8	50 AF 17 E8	50 AF 17 E8	D1 2E C2 3D	50 AF 17 E8	50 AF 17 E8
K55	TV CH +	50 AF 19 E6	50 AF 19 E6	50 AF 19 E6	50 AF 19 E6	50 AF 19 E6	50 AF 19 E6	50 AF 19 E6	–	50 AF 19 E6	50 AF 19 E6
K59	TV CH -	50 AF 18 E7	50 AF 18 E7	50 AF 18 E7	50 AF 18 E7	50 AF 18 E7	50 AF 18 E7	50 AF 18 E7	–	50 AF 18 E7	50 AF 18 E7
K63	TV VOLUME +	50 AF 12 ED	50 AF 12 ED	50 AF 12 ED	50 AF 12 ED	50 AF 12 ED	50 AF 12 ED	50 AF 12 ED	–	50 AF 12 ED	50 AF 12 ED
K65	TV INPUT	50 AF 09 F6	50 AF 09 F6	50 AF 09 F6	50 AF 09 F6	50 AF 09 F6	50 AF 09 F6	50 AF 09 F6	D1 2E D6 29	50 AF 09 F6	50 AF 09 F6
K66	MUTE	50 AF 0B F4	50 AF 0B F4	50 AF 0B F4	50 AF 0B F4	50 AF 0B F4	50 AF 0B F4	50 AF 0B F4	–	50 AF 0B F4	50 AF 0B F4
K67	TV VOLUME -	50 AF 15 EA	50 AF 15 EA	50 AF 15 EA	50 AF 15 EA	50 AF 15 EA	50 AF 15 EA	50 AF 15 EA	–	50 AF 15 EA	50 AF 15 EA

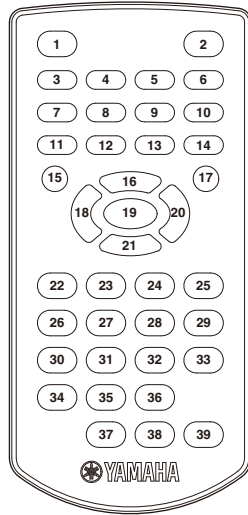
● RAX28: U model / RAX29: C, A models
SCHEMATIC DIAGRAMS



PANELS



KEY NO. LAYOUT



KEY CODE

Key No.	FUNCTION	ZONE2			
		ID1		ID2 (default)	
		RECEIVER	CD	RECEIVER	CD
1	⏻ (POWER)	7E-BB	←	7E-BB45	←
2	I (ON)	7E-BA	←	7E-BA44	←
3	ID	SUCCESS: 7D-AA	←	←	←
		FAIL: 7D-AB	←	←	←
4	PHONO	7A-D0	←	7A-D02E	←
5	TAPE	7A-D3	←	7A-D32D	←
6	CD	7A-D1	←	7A-D12F	←
7	LINE 1	7A-D4	←	7A-D42A	←
8	LINE 2	7A-CD	←	7A-CD33	←
9	LINE 3	7A-CC	←	7A-CC32	←
10	DOCK	7F01-4B	←	7F01-4BB5	←
11	TUNER	7A-D2	←	7A-D22C	←
12	SIRIUS (RAX28)	7A-3A	←	7A-3AC4	←
	INFO (RAX29)	7A-2857	←	7A-2856	←
13	FM CATEGORY (RAX28)	7F01-5926	←	7F01-5927	←
	FM (RAX29)				
14	AM CATEGORY (RAX28)	7F01-5629	←	7F01-5628	←
	AM (RAX29)				
15	▲ iPod MENU-UP	7F01-81	←	7F01-817F	←
16	MENU	7A-2B54	←	7A-2B55	←
17	▼ iPod MENU-DOWN	7F01-85	←	7F01-857B	←
18	⏮	7A-2D52	←	7A-2D53	←
19	ENTER	7A-2F50	←	7A-2F51	←
20	⏭	7A-2E51	←	7A-2E50	←
21	▶⏭	7A-2C53	←	7A-2C52	←
22	◀ PRESET	7F01-5F20	←	7F01-5F21	←
23	▶ PRESET	7F01-5C23	←	7F01-5C22	←
24	◀◀ TUN./CH (RAX28)	7F01-651A	←	7F01-651B	←
	◀◀ TUNING (RAX29)				
25	◀◀ TUN./CH (RAX28)	7F01-621D	←	7F01-621C	←
	◀◀ TUNING (RAX29)				
26	1 ■	7F01-71	79-56	7F01-718F	79-56
27	2 ■■	7F01-72	79-55	7F01-728C	79-55
28	3 ►	7F01-73	79-02	7F01-738D	79-02
29	MUTE	7A-DC	←	7A-DC22	←
30	4 DISK SKIP	7F01-74	79-4F	7F01-748A	79-4F
31	5 ◀◀	7F01-75	79-04	7F01-758B	79-04
32	6 ►►	7F01-76	79-07	7F01-7688	79-07
33	VOLUME (+)	7A-DA	←	7A-DA24	←
34	7 ▲	7F01-77	79-01	7F01-7789	79-01
35	8 ◀◀	7F01-78	79-05	7F01-7886	79-05
36	9 ►►	7F01-79	79-06	7F01-7987	79-06
37	0	7F01-7A	—	7F01-7A84	—
38	ENTER	7F01-7C	—	7F01-7C82	—
39	VOLUME (-)	7A-DB	←	7A-DB25	←

■ ADVANCED SETUP

(U, C, A models)

■ ADVANCED SETUP menu parameters

Change the initial settings to reflect the needs of your listening environment.



The default settings are marked with “*”.

REMOTE ID

Choices: ID1, ID2*

Changes the remote control ID of this unit.

- Select ID1 to operate this unit using an alternative code.
- Select ID2 to operate this unit using the default code.

Note

The remote control’s ID must be set to the same ID as this unit.

SR PIN (SIRIUS Personal Identification Number) (U model)

Choices: CANCEL*, RESET

Resets the Parental Lock code used to lock/unlock SIRIUS satellite radio channels.

APD (Automatic Power Down) TIMER

Choices: 4H (4 hours), 8H* (8 hours), 12H (12 hours)

When the POWER MANAGEMENT switch on the rear panel of this unit is set to ON, this unit’s Main zone and Zone 2 automatically enters standby mode if this unit is not operated for the specified amount of time.

Note

When the POWER MANAGEMENT switch is set to OFF, “APD TIMER -OFF” is displayed.

INITIALIZE

Choices: NO*, YES

Resets all parameters to their factory presets.

- Select NO to cancel without resetting all parameters to their factory presets.
- Select YES to reset all parameters to their factory presets.

Note

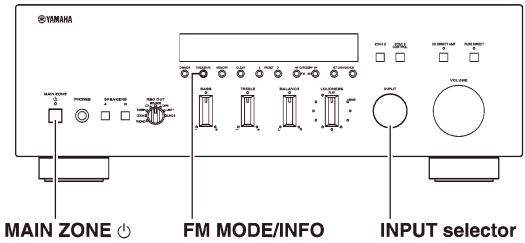
If “YES” is selected the parameters are reset the next time you turn on the power of this unit.

Changing the ADVANCED SETUP menu parameters

The ADVANCED SETUP menu is displayed in the front panel display.



- Audio output is muted while setting parameters in the ADVANCED SETUP menu.
- While setting parameters in the ADVANCED SETUP menu, most controls on the front panel are disabled; only MAIN ZONE , the INPUT selector and FM MODE/INFO are operational.



- 1 Press and hold FM MODE/INFO on the front panel, and then press MAIN ZONE . This unit turns on, and the ADVANCED SETUP menu is displayed on the front panel display.

- 2 Rotate the INPUT selector on the front panel to select the parameter you want to change. See “ADVANCED SETUP menu parameters” for a complete list of available parameters.

- 3 Press FM MODE/INFO on the front panel repeatedly to change the selected parameter setting. To change other settings, repeat steps 2 and 3.

- 4 Press MAIN ZONE  to set this unit to standby mode to confirm your setting.

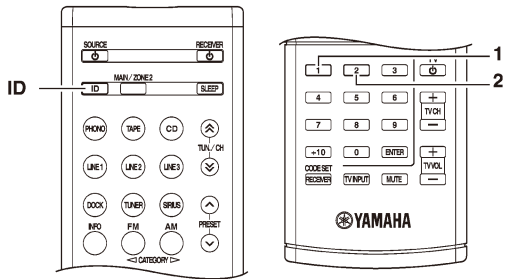
Note

The settings you made take effect the next time you turn on this unit.

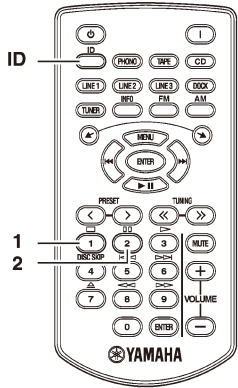
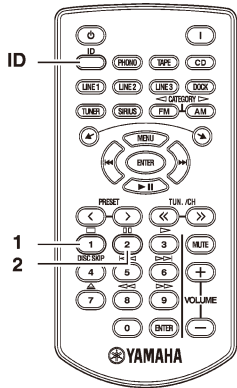
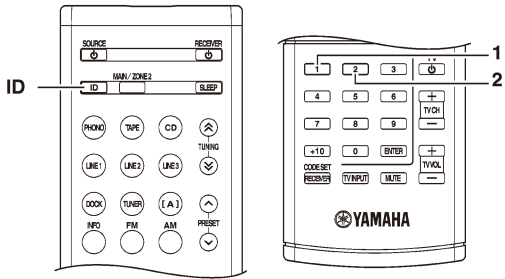
Switching the remote control ID

When using multiple Yamaha receivers or amplifiers with the same default code setting, you may unintentionally operate those components simultaneously. In this case, set one of the alternative codes for this unit to operate this unit separately.

(U model)



(C, A models)



- Switching to ID1 Press and hold the ID button and the numeric button “1” on the remote control together for about 3 seconds.
- Switching to ID2 Press and hold the ID button and the numeric button “2” on the remote control together for about 3 seconds.

Remote control ID* (this unit’s setting)	Function
ID1	To operate this unit using an alternative code.
ID2 (default setting)	To operate this unit using the default code.

* When you change the remote control ID, you must change the remote control ID of this unit .

Note

If the remote control batteries are weak or removed, the remote control ID will switch to the default setting (ID2). In this case, replace the batteries and set the remote control ID again.

ADVANCED OPERATION

(R, G models)**■ ADVANCED SETUP menu parameters**

Change the initial settings to reflect the needs of your listening environment.



The default settings are marked with “*”.

REMOTE ID

Choices: ID1, ID2*

Changes the remote control ID of this unit.

- Select ID1 to operate this unit using an alternative code.
- Select ID2 to operate this unit using the default code.

Note

The remote control’s ID must be set to the same ID as this unit.

APD (Automatic Power Down) TIMER

Choices: 4H (4 hours), 8H* (8 hours), 12H (12 hours)

When the POWER MANAGEMENT switch on the rear panel of this unit is set to ON, this unit automatically enters standby mode if it is not operated for the specified amount of time.

Note

When the POWER MANAGEMENT switch is set to OFF, “APD TIMER -OFF” is displayed.

INITIALIZE

Choices: NO*, YES

Resets all parameters to their factory presets.

- Select NO to cancel without resetting all parameters to their factory presets.
- Select YES to reset all parameters to their factory presets.

Note

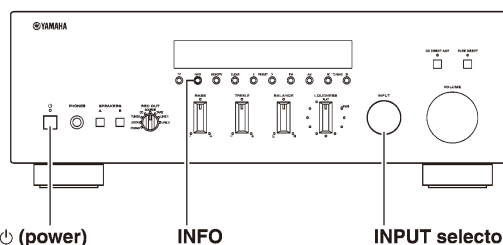
If “YES” is selected the parameters are reset the next time you turn on the power of this unit.

Changing the ADVANCED SETUP menu parameters

The ADVANCED SETUP menu is displayed in the front panel display.



- Audio output is muted while setting parameters in the ADVANCED SETUP menu.
- While setting parameters in the ADVANCED SETUP menu, most controls on the front panel are disabled; only ϕ (power), the INPUT selector and INFO are operational.



- 1 Press and hold INFO on the front panel, and then press ϕ (power) inward.**

This unit turns on, and the ADVANCED SETUP menu is displayed on the front panel display.

- 2 Rotate the INPUT selector on the front panel to select the parameter you want to change.**

See “ADVANCED SETUP menu parameters” for a complete list of available parameters.

- 3 Press INFO on the front panel repeatedly to change the selected parameter setting.**

To change other settings, repeat steps 2 and 3.

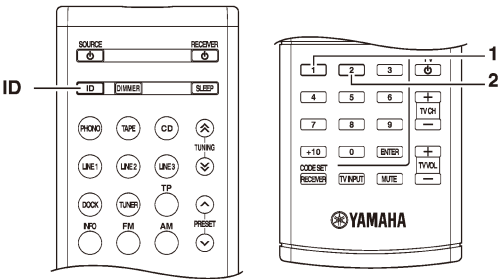
- 4 Press ϕ (power) on the front panel outward to turn off this unit to confirm your setting.**

Note

The settings you made take effect the next time you turn on this unit.

Switching the remote control ID

When using multiple Yamaha receivers or amplifiers with the same default code setting, you may unintentionally operate those components simultaneously. In this case, set one of the alternative codes for this unit to operate this unit separately.



- Switching to ID1
Press and hold the ID button and the numeric button “1” on the remote control together for about 3 seconds.
- Switching to ID2
Press and hold the ID button and the numeric button “2” on the remote control together for about 3 seconds.

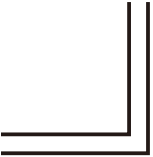
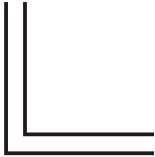
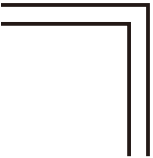
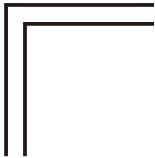
Remote control ID* (this unit's setting)	Function
ID1	To operate this unit using an alternative code.
ID2 (default setting)	To operate this unit using the default code.

* When you change the remote control ID, you must change the remote control ID of this unit .

Note

If the remote control batteries are weak or removed, the remote control ID will switch to the default setting (ID2). In this case, replace the batteries and set the remote control ID again.

MEMO



R-S700

