DACE

Service Manual

Wireless Speaker System







Model No. SC-NA10EB SC-NA10EG SC-NA10GN SC-NA10P SC-NA10PC

Product Color: (A)...Blue Type (For EB/EG only)

(R)...Red Type (For EG only)

(K)...Black Type (For P/PC/GN only)

⚠ WARNING

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

IMPORTANT SAFETY NOTICE

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

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1 Safety Precautions

1.1. General Guidelines

1. IMPORTANT SAFETY NOTICE

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

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

1.1.1. Leakage Current Cold Check

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. measure the resistance value, with an ohmmeter between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$. When the exposed metal does not have a return path to the chassis, the reading must be ∞

1.1.2. Leakage Current Hot Check

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

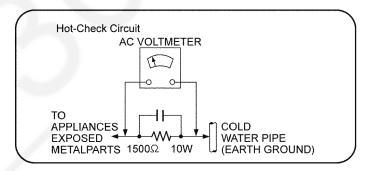


Figure 1-1

1.2. Caution for AC Mains Lead (For EB only)

(For the AC mains plug of three pins)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark \circledast or the BSI mark \Im on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

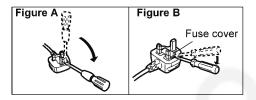
If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from your local dealer.

Before use

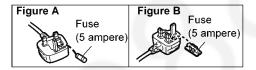
Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below. Illustrations may differ from actual AC mains plug. 1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.



1.3. Before Repair and Adjustment

Caution:

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

- Current consumption at AC 240V, at 50Hz during power on at volume minimum, (Selector: AUX mode) should be ~200 mA. (For EB/EG/GN)
- Current consumption at AC 120V, at 60Hz during power on at volume minimum, (Selector : AUX mode) should be ~200 mA. (For P/PC)

1.4. Protection Circuitry

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

- No sound is heard when the power is turned on.
- Sound stops during a performance.

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

If this occurs, follow the procedure outlines below:

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

Note:

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

1.5. Safety Part Information

Safety Parts List:

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

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

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	2	N4HULNZ00001	BATTERY PACK	P,PC
<u> </u>	2	N4HULNZ00003	BATTERY PACK	EB,EG,GN
<u>^</u>	20	RKS0532-K	REAR CABINET	EB,EG,GN
<u>^</u>	20	RKS0532B-K	REAR CABINET	P,PC
Λ	A1	K2CQ2YY00119	AC CORD	EG
Δ	A1	K2CT2YY00097	AC CORD	EB
<u>^</u>	A1	K2CJ2YY00093	AC CORD	GN
Δ	A2	RFEA228C-AG	AC ADAPTOR	P,PC
<u>^</u>	A2	RFEA229E-AH	AC ADAPTOR	EB,EG,GN
Λ	A3	VQT5C36	O/I BOOK (En)	P,PC
Δ	A3	VQT5C37	O/I BOOK (Cf)	PC
Δ	A3	VQT5C38	O/I BOOK (Ge/Fr/lt/Sp/Du)	EG
<u>^</u>	A3	VQT5C39	O/I BOOK (Sw/Da/Fi)	EG
Δ	A3	VQT5C51	O/I BOOK (En)	EB,EG,GN
<u> </u>	IP1891	D4FB1R100015	RESETTABLE FUSE	
Λ	IP1901	D1JBR015A007	PROTECTOR	

2 Warning

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

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

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

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

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION:

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

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

2.2. Service caution based on Legal restrictions

2.2.1. General description about Lead Free Solder (PbF)

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

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

Definition of PCB Lead Free Solder being used

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

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

- The lead free solder has to be used when repairing the equipment for which the lead free solder is used. (Definition: The letter of "PbF" is printed on the PCB using the lead free solder.)
- To put lead free solder, it should be well molten and mixed with the original lead free solder.
- Remove the remaining lead free solder on the PCB cleanly for soldering of the new IC.
- Since the melting point of the lead free solder is higher than that of the normal lead solder, it takes the longer time to melt the lead free solder.
- Use the soldering iron (more than 70W) equipped with the temperature control after setting the temperature at 350±30 degrees C (662±86°F).

Recommended Lead Free Solder (Service Parts Route.)

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

RFKZ03D01K-----(0.3mm 100g Reel) RFKZ06D01K-----(0.6mm 100g Reel) RFKZ10D01K-----(1.0mm 100g Reel)

Note

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

3 Service Navigation

3.1. Service Information

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

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

Specifications

■ Amplifier Section

RMS Output Power (AC Adaptor)

Normal Mode

10% total harmonic distortion

5 W per channel (1 kHz, 6 Ω) Front (both ch driven):

Total RMS output power 10 W

RMS Output Power (Battery)

Normal Mode

10% total harmonic distortion

Front (both ch driven): 4 W per channel (1 kHz, 6 Ω)

Total RMS output power

RMS Output Power (AC Adaptor/Battery)

10% total harmonic distortion

Front (both ch driven): 0.5 W per channel (1 kHz, 6 Ω)

Total RMS output power

FTC Output Power (AC Adaptor) (For P/PC)

Long Play Mode

10% total harmonic distortion

Front (both ch driven): 250Hz - 16 kHz 3.5 W per channel

 (6Ω)

Total FTC power

■ Speaker Section Front Speaker (L/R)

Type 1 way, 1 speaker system (passive radiator type)

Unit(s) 4 cm x 2 (1 5/8" x 2)

Impedance

Passive Radiator

Unit 8 cm x 1 (3 1/8" x 1)

■ Bluetooth Section

Ver. 3.0 Bluetooth® system specifica-

tion:

Class 2 (2.5 mW) Wireless equipment classifica-

Supported profiles: A2DP/AVRCP/HFP Supported codec: aptX®, AAC, SBC

Frequency band: 2.4 GHz band FH-SS Approx. 10 m (33 ft.) Line of Sight Operating distance:

Prospective communication distance.

Measurement environment: Height 1.0 m (33 ft.)

■ Microphone Section

Type: Mono

■ Terminal Section

DC IN: 12 V 3 A **AUX input:** Stereo, 3.5 mm (1/8") jack DC OUT (USB A type): (5 V 1 A) Supply output only

power-on

■ ACCESSORIES Section

AC Adaptor

Input:

AC 100 V to 240 V 50/60 Hz 1000 mA (For EB/EG/GN)

AC 100 V to 240 V 50/60 Hz 800 mA (P/PC)

Output: DC 12 V 3A

■ General

Power supply: DC 12 V 3 A Internal Battery: 7.4 V (Li-ion: 1240 mAh) Power consumption: Approx. 12 W Power consumption in standby Approx. 0.4 W

Battery Life in Use (Bluetooth®:

SBC mode)

Normal Mode: Approx. 10 h* LP Mode: Approx. 20 h* Approx. 3 h

Battery Charge Time (25 °C

(77 °F))

Dimensions (W x H x D): 204 mm x 105 mm x 41 mm

(8 1/32" x 4 5/32" x 1 5/8")

(With cover)

200 mm x 99 mm x 29 mm

(7 7/8" x 3 29/32" x 1 5/32")

(Without cover)

Approx. 520 g (1.15 lbs) Mass:

> (With cover) Approx. 415 g (0.92 lbs)

(Without cover) Operating temperature range 0 °C to +40 °C

(+32 °F to +104 °F)

Charge temperature range 10 °C to +35 °C (+50 °F to +95 °F)

Operating humidity range 35% to 80 % RH

(no condensation)

· Specifications are subject to change without notice.

Mass and dimensions are approximate.

• Total harmonic distortion is measured by the digital spectrum analyzer.

* By the measurement method prescribed in the provisions

4.1. Others (Licenses)

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Declaration of Conformity (DoC)

Hereby, "Panasonic Corporation" declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. Customers can download a copy of the original DoC to our R&TTE products from

Contact to Authorised Representative: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

This product is intended for general consumer. (Category 3)

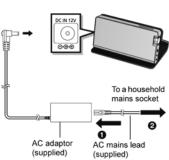
General/Introduction

About the power of this unit (For EB/EG/GN) 5.1.

This unit has a built-in battery. Please charge the battery before using this unit for the first time.

Charging the battery

- Connect the AC mains lead to the AC adaptor.The AC mains lead must be
 - connected in order of 1 to 2. Insert all the way in.
- While the unit is turned off, connect the AC adaptor to the DC IN terminal.
 - If charging is necessary, the Battery indicator (red) lights. When charging is complete, the Battery indicator goes off.



About the battery status

Battery indicator (red)	Battery status
Fast blinking (at approximately 1 second intervals)	About 5%*1
Slow blinking (at approximately 2 second intervals)	About 15%*1

[&]quot;1 These battery statuses of the unit serve only as an approximation, and may vary according to the conditions of use

Battery life in use/Battery charge time/Rechargeable times

	NA10
Battery life in use	Approx. 10 hours*2
Battery life in use (LP mode)	Approx. 20 hours*2
Battery Charge time	Approx. 3 hours*3
Rechargeable times	About 500 times

Measured by the test method established by the company [while connecting with Bluetooth®, using at the surrounding temperature of 25 °C]
 When charging at the surrounding temperature of 25 °C after the battery is depleted.

■ Using the unit by connecting it to a household mains socket

Press [0/I] to turn on the unit. Connecting the AC adaptor before turning on the unit allows you to supply power from a household mains socket during use.

· It takes longer to charge while this unit is turned on.

- · Do not use any other AC adaptors except the supplied one
- When this unit is not used over a long period of time, charge the built-in battery at least once every six months to prevent it from deteriorating.
- Charging may not start if the battery level is sufficiently high even if it is not full. It is recommended to charge the battery in the temperature of between 10 °C and 35 °C. The Battery indicator (red) may flash and charging may not be possible when it is out of recommended temperature range.
- The battery may not charge when the temperature surrounding the battery is high during the
 operation or right after the operation even when it is within the recommended temperature range. In such case, stop the usage and let it cool down.

 To ensure safety, in the case of an excessive input signal, the system may be automatically
- interrupted and power is turned off.

 Use of the DC OUT terminal will reduce the operating time.

5.2. About the power of this unit (For P/PC)

This unit has a built-in battery. Please charge the battery before using this unit for the first time.

Charging the battery

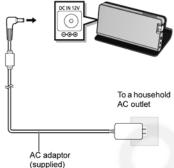
Connect the AC adaptor to the household AC outlet.

If charging is necessary, the Battery indicator (red) lights. When charging is complete, the Battery indicator goes off.

About the battery status

Battery indicator (red)	Battery status						
Fast blinking (at approximately 1 second intervals)	About 5%*1						
Slow blinking (at approximately 2 second intervals)	About 15%*1						
1 These battery statuses of the unit serve							

only as an approximation, and may vary according to the conditions of use



Battery life in use/Battery charge time/Rechargeable times

	NA10
Battery life in use	Approx. 10 hours*2
Battery life in use (LP mode)	Approx. 20 hours*2
Battery Charge time	Approx. 3 hours*3
Rechargeable times	About 500 times

- Calculated by the test method established by the company [while connecting with Bluetooth®, using at the surrounding temperature of 25 °C (+77 °F)]
 When charging at the surrounding temperature of 25 °C (+77 °F) after the battery is depleted.

 \blacksquare Using the unit by connecting it to a household AC outlet Press [\circlearrowleft //] to turn on the unit. Connecting the AC adaptor before turning on the unit allows you to supply power from a household AC outlet during use.

· It takes longer to charge while this unit is turned on.

- Do not use any other AC adaptors except the supplied one.

 When this unit is not used over a long period of time, charge the built-in battery at least once
- every six months to prevent it from deteriorating.

 Charging may not start if the battery level is sufficiently high even if it is not full.
- this recommended to charge the battery in the temperature of between 10 °C and 35 °C (+50 °F to +95 °F). The Battery indicator (red) may flash and charging may not be possible when it is out of recommended temperature range.

 The battery may not charge when the temperature surrounding the battery is high during the
- operation or right after the operation even when it is within the recommended temperature range. In such case, stop the usage and let it cool down.
- To ensure safety, in the case of an excessive input signal, the system may be automatically interrupted and power is turned off.
- Use of the DC OUT terminal will reduce the operating time

About the DC OUT terminal (USB) 5.3.

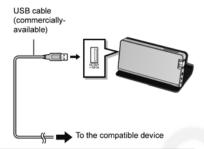
The DC OUT terminal of this unit is for supplying/charging power to a connected device (rated value: 5 V/1 A). Note that the port cannot be used for purposes other than supplying/charging power.

Note that when the unit is turned off, charging is not possible.

Preparation

Turn on the unit.

- Using a USB cable (commercially-available), connect the unit and a compatible device.
- Once fully charged, remove the USB cable (commercially-available) from the DC OUT terminal.



Note

- A cable compatible with your device is required. If a cable is supplied with your device, use the cable
- Even if you connect a cable compatible with the DC OUT terminal of this unit, your device may not be charged. In that case, use a charger supplied with your device.
- Depending on your device, charging methods other than the specified one may not be allowed. Check the operating instructions of your device before use.
- Do not connect a device with a rated value higher than 5 V/1 A to this unit. Doing so may cause malfunction.
- To check if charging is complete, look at the screen of the connected device, etc.
- · After charging, pull out the compatible cable

Listening to audio from a Bluetooth® device 5.4.

Preparation

Enable the Bluetooth® function of the device you want to connect to, and bring it closer to the unit.

- Use a Bluetooth® device within the approximate range of 10 m from the unit.
- If you intend to use an NFC (Near Field Communication)-compatible Bluetooth® device, proceed to "One-Touch Connection (Connecting by NFC)"

Connecting via Bluetooth® menu

■ Pairing with Bluetooth® device

Press [U/I] to turn this unit on.

The Bluetooth® indicator (blue) blinks slowly.

- If this unit is being used for the first time (factory preset state):

 The Bluetooth® indicator (blue) blinks fast.

 The unit will enter pairing standby. → Skip to step 3.
- Press and hold [🚱] until the Bluetooth® indicator (blue) blinks fast. The unit will enter pairing standby.
- Select "SC-NA10" from the Bluetooth® device's Bluetooth® menu. When the Bluetooth® device is paired and connected, the Bluetooth® indicator (blue) on the unit lights up.
 - If prompted for a passkey, input "0000".
 - If the Bluetooth® device need to operate the Bluetooth® pairing setting and the Bluetooth® connecting setting, operate both settings.
- Start playing back music, a movie, etc. on your Bluetooth® device.
 - The volume can be adjusted by rotating the volume knob of the unit. When the maximum or minimum volume is reached, you will be notified by a beep

Listening to audio from a paired device

When this unit is turned on, the Bluetooth® indicator (blue) will blink slowly indicating that the unit is in connection standby mode. Please perform Steps 3 and 4.

When the power is turned on, this unit is connected to the last-used Bluetooth® device. At this point, please perform Step 4.

One-Touch Connection (Connecting by NFC) 5.5.

For NFC-compatible Android™ devices only

Just placing an NFC (Near Field Communication)-compatible Bluetooth® device on the unit, you can complete all preparations, from registering a Bluetooth® device to establishing a connection.

Preparation
Enable the NFC function on the Bluetooth® device

- Download the app "Panasonic Music Streaming" (free of charge) to your Bluetooth[®] device from Google Play™.
 - Enter "Panasonic Music Streaming" in the search box of Google Play™ and search
 → select "Panasonic Music Streaming" to download the app
- Start the app "Panasonic Music Streaming" on your Bluetooth® device.

 Follow on-screen instructions on your device.

 - Always use the latest version of the app.
- Touch and hold your device on the NFC touch area of this unit. (Until a pop-up window on your device indicates that the connection is established.)

- When the unit recognises your device, a beep sound is emitted.

 When the Bluetooth® device is paired and connected, the Bluetooth® indicator (blue) on the unit lights up. Once the registration and connection of the Bluetooth® device is complete, move the device away from the unit.

 When the Bluetooth® indicator (blue) does not light up even if you have touched the NFC touch area, change the touching position.
- Start playing back music, a movie, etc. on your Bluetooth® device.

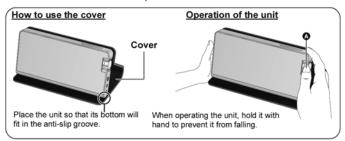
Connecting to another device

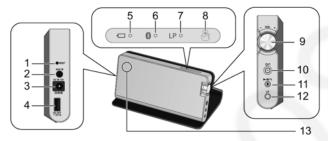
If you touch another device to this unit, you can update the Bluetooth® connection. The previously connected device will be disconnected automatically.

6 Location of Controls and Components

6.1. Main Unit Key Button Operations

■ How to use the cover and operation of the unit





- 1 RESET switch [RESET]
 - Use a paper clip, etc., to press the switch if this unit does not operate correctly, like when you cannot turn
- off/on the power.

 AUX IN jack
- B DC IN terminal
- 4 DC OUT terminal
 - When using this port, use a USB cable (commercially-available).
- Battery indicator (red)
- 6 Bluetooth® indicator (blue)
- 7 LP Mode indicator (green)
- 8 NFC touch area

- 9 Volume knob: Adjusts the volume
 - To operate the knob, place your thumb on the knob as indicated by
 - and turn it vertically.
 When the maximum or minimum volume is reached, you will be notified by a beep sound.
- notified by a beep sound.

 10 Standby/on switch [Ů/l]
- 11 Bluetooth® pairing button/ Play button/Pause button/Call button
- 12 LP button [LP]
- 13 Microphone

7 Service Mode

This unit is equipped with features of service mode & doctor mode setting for checking the functions & reliability.

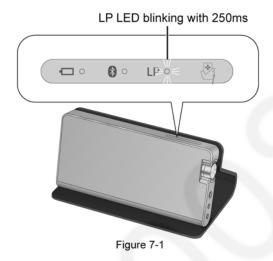
7.1. Service Mode

Here is the procedures to enter into Service Mode.

Step 1: Turn on the unit.

Step 2 : Press and hold [BT] \rightarrow [BT + POWER] \rightarrow [BT + POWER + VOL+] on the unit.

Step 3: LP LED start blinking with 250ms (Refer to Figure 7-1).



To exit the Service Mode

• Press the power button on the main unit.

7.1.1. Service Mode Table

Mode	Key		Par	nel Key		LE	D Indicate	ors	Mode Description
Name	Buttons	SELECTOR	LP	OTHER SETTING	VOLUME SETTING	LED 1 (Battery)	LED 2 (BT)	LED 3 (LP)	
Software Version	Volume Up (clockwise rotation)	No Change	No Change		No Change	Bit 2	Bit 1	Bit 0	Firmware version (Refer to Table 7-1)
BT Version	ВТ	No Change	No Change	-	No Change	Bit 2	Bit 1	Bit 0	BT version (Refer to Table 7-1)
Exit Service mode and power OFF	POWER	Exit Service Mode and Power Off X X X					Х	Exit Service Mode and clear all setting without total Running Time, Error History	

Link Status

[&]quot;O" means LED on

[&]quot;X" means LED off

[&]quot;*" means LED blink 125ms

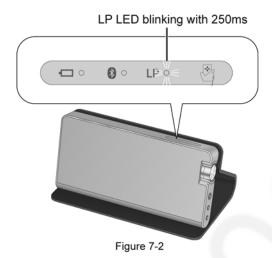
7.2. Doctor Mode

Here is the procedures to enter into Doctor Mode.

Step 1: Turn on the unit.

Step 2 : Press and hold [LP] \rightarrow [LP + POWER] \rightarrow [LP + POWER + VOL+] on the unit.

Step 3: LP LED start blinking with 250ms (Refer to Figure 7-2).



To exit the Doctor Mode

• Press the power button on the main unit.

7.2.1. Doctor Mode Table

Mode	Key				LED Indicators			Mode Description		
Name	Name	Buttons	SELECTOR	LP	OTHER SETTING	VOLUME SETTING	LED 1 (Battery)	LED 2 (BT)	LED 3 (LP)	
B.B.D check Mode	LP	No Change	OFF (Default)	(Default)	VOL 10	-	0	*	LP mode = OFF	
Software Version	Volume Up (clockwise rotation)	No Change	No Change	-	No Change	Bit 2	Bit 1	Bit 0	Firmware version (Refer to Table 7-1)	
Key LED Check	Volume Down (anticlockwise rotation)	110	No Change	-	No Change	Х	X	Х	Volume Up (Power) → LP (LP led) → BT (BT led) → power (END)	
NFC Lock Release (NFC_INIT)	press and hold [BT] for 2sec	No Change	No Change	-	No Change	-	Blink Once	*	Opecon send "INIT" command to NFC_IC_CHIP	
BT connection codec check	No Operation (Default)	ВТ	No Change	(Default)	No Change	-	depends on BT codec	*	BT LED lights up or blinks like following: - BT connected via aptX: on - BT connected via SBC: blink (100msOn/100msOff)	
Exit Doctor mode and power OFF	POWER	Exit Doctor Mode and Power Off			Х	Х	Х	Clear all setting and memory		

Link Status

"O" means LED on

"X" means LED off

"*" means LED blink 125ms

7.3. Version Display Mapping

Version	POWER	ВТ	LP	Remarks
	Bit 2	Bit 1	Bit 0	
-	Х	Х	Х	No use in this blank pattern
01,08,15,22,,,,71,78,85,92,99	Х	Х	0	
02,09,16,23,,,,,72,79,86,93,100	Х	0	Х	
03,10,17,24,,,,73,80,87,94,101	Х	0	0	
04,11,18,25,,,,74,81,88,95,102	0	Х	Х	
05,12,19,26,,,,,75,82,89,96,103	0	Х	0	
06,13,20,27,,,,,76,83,90,97,104	0	0	Х	
07,14,21,28,,,,,77,84,91,98,105	0	0	0	

Table 7-1

Link Status
"O" means LED on
"X" means LED off
"*" means LED blink 250ms

8 Troubleshooting Guide

This section is not available at the time of issue

9 Disassembly and Assembly Instructions

Caution Note:

- This section describes the disassembly and/or assembly procedures for all major printed circuit boards & main components for the unit. (You may refer to the section of "Main components and P.C.B Locations" as described in the service manual)
- Before carrying out the disassembly process, please ensure all the safety precautions & procedures are followed.
- During the disassembly and/or assembly process, please handle with care as there may be chassis components with sharp edges.
- Avoid touching heatsinks due to its high temperature after prolong use. (See caution as described below)

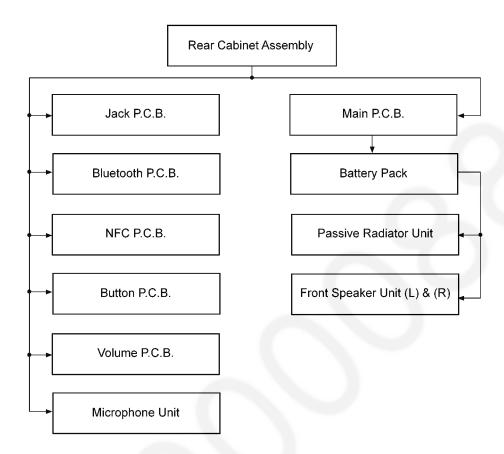
CAUTION: HOT!!
PLEASE DO NOT
TOUCH THE HEAT SINK

- During disassembly and assembly, please ensure proper service tools, equipments or jigs is being used.
- During replacement of component parts, please refer to the section of "Replacement Parts List" as described in the service manual.
- · Select items from the following indexes when disassembly or replacement are required.
- Disassembly of Rear Cabinet Assembly
- Disassembly of Jack P.C.B.
- Disassembly of Bluetooth P.C.B.
- Disassembly of NFC P.C.B.
- Disassembly of Button P.C.B.
- Disassembly of Volume P.C.B.
- Disassembly of Microphone Unit
- Disassembly of Main P.C.B.
- Disassembly of Battery Pack
- Disassembly of Passive Radiator Unit
- Disassembly of Front Speaker Unit (L) & (R)

9.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the chart below.



9.2. Types of Screws

CAUTION NOTE:

Please use original screw and at correct locations.

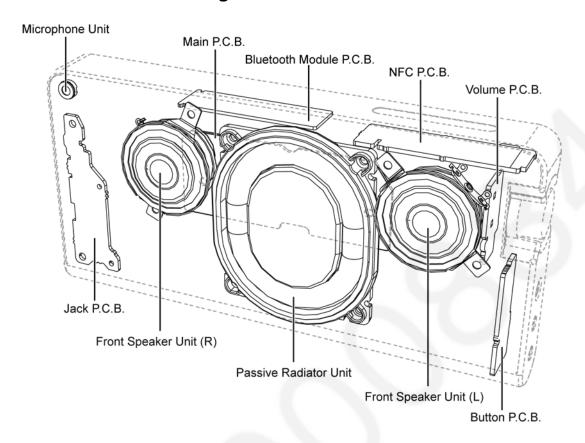
Below shown is part no. of different screw types used:

a: RHD26076

d : RHD26045-L **e** : VHD1224-1A

b: XTS2+8JFJK **c**: RHD25001

9.3. Main Parts Location Diagram



Disassembly of Rear Cabinet 9.4. **Assembly**

Step 1: Remove 2 Screw Ornaments.

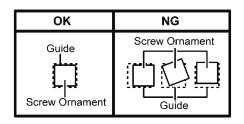
Caution: Replace the Screw Ornaments if they are torn

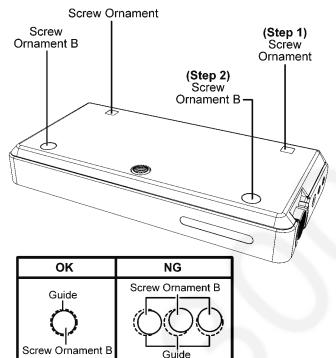
during disassembling.

Step 2: Remove 2 Screw Ornaments B.

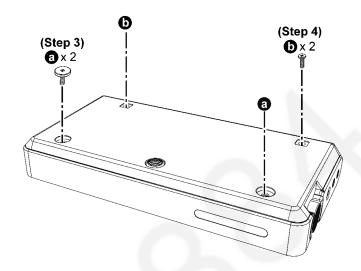
Caution: Replace the Screw Ornaments B if they are torn

during disassembling.

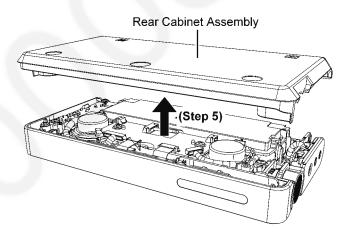




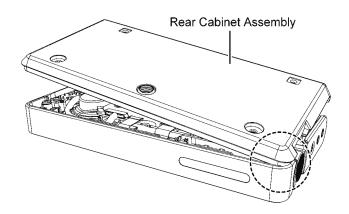
Step 3: Remove 2 screws. Step 4: Remove 2 screws.



Step 5: Detach the Rear Cabinet Assembly.



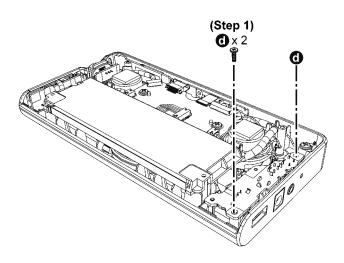
Caution: During assembling, ensure that the Rear Cabinet Assembly is fitted to the Front Cabinet Assembly starting from the dotted area.



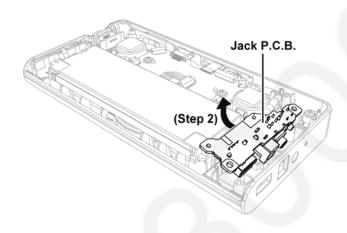
9.5. Disassembly of Jack P.C.B.

• Refer to "Disassembly of Rear Cabinet Assembly"

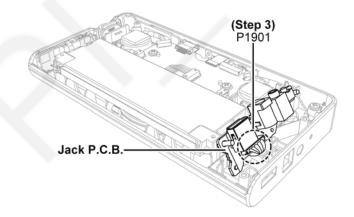
Step 1: Remove 2 screws.



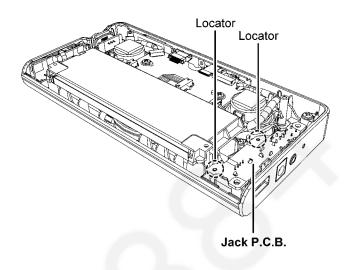
Step 2: Lift up and upset the Jack P.C.B..



Step 3: Detach 15P wire at connector (P1901) on the Jack P.C.B..



Caution : During assembling, ensure that the Jack P.C.B. is properly seated into the locators.



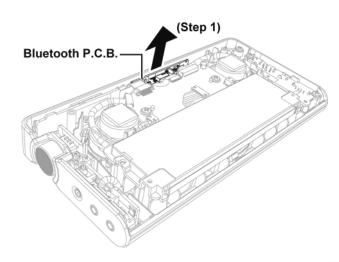
9.6. Disassembly of Bluetooth P.C.B.

• Refer to "Disassembly of Rear Cabinet Assembly"

Caution:

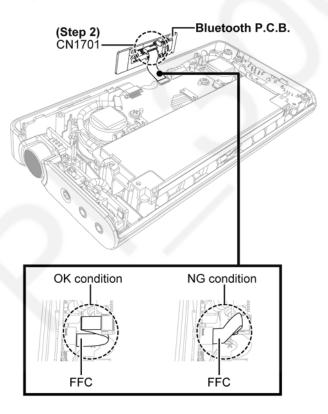
If either Bluetooth Module or NFC P.C.B need to be change, it have to be replaced together.

Step 1 : Lift up the Bluetooth P.C.B..

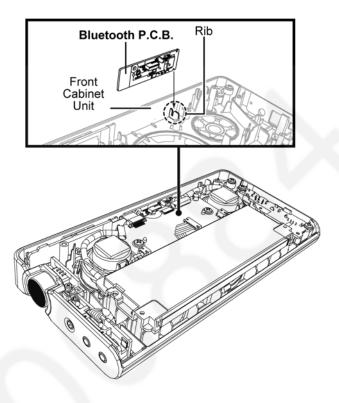


Step 2: Detach 16P FFC at connector (CN1701) on the Bluetooth P.C.B..

Caution 1 : During assembling, ensure that the 16P FFC is properly dressed.



Caution 2 : During assembling, ensure that the Bluetooth P.C.B. is properly seated into the rib of the Front Cabinet Unit.



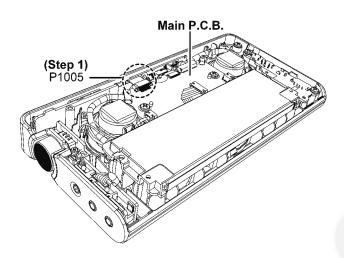
9.7. Disassembly of NFC P.C.B.

• Refer to "Disassembly of Rear Cabinet Assembly"

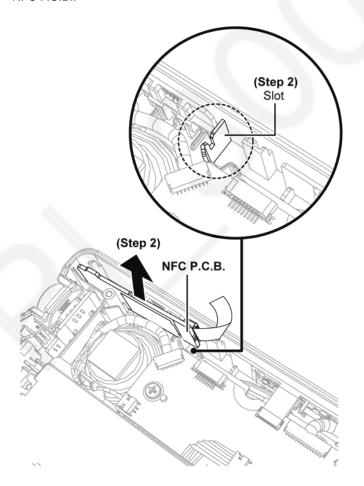
Caution:

If either Bluetooth Module or NFC P.C.B need to be change, it have to be replaced together.

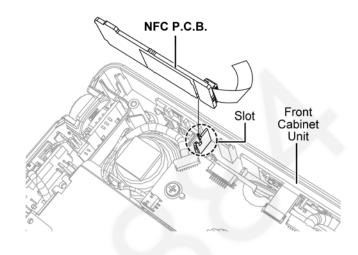
Step 1: Detach 9P FFC at connector (P1005) on the Main P.C.B..



Step 2: Lift up the NFC P.C.B. from the slot and remove the NFC P.C.B..



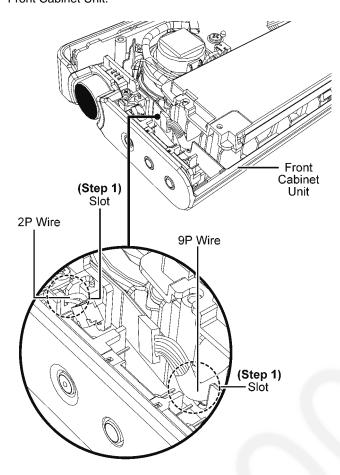
Caution: During assembling, ensure that the NFC P.C.B. is inserted properly and seated into the slot of the Front Cabinet Unit.



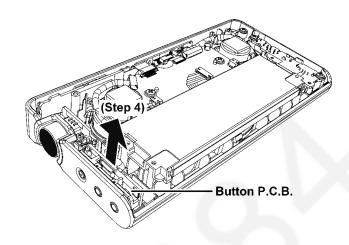
9.8. Disassembly of Button P.C.B.

• Refer to "Disassembly of Rear Cabinet Assembly"

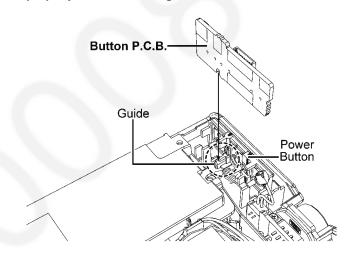
Step 1 : Remove the 2P wire and 9P wire from the slots of the Front Cabinet Unit.



Step 4: Remove the Button P.C.B..

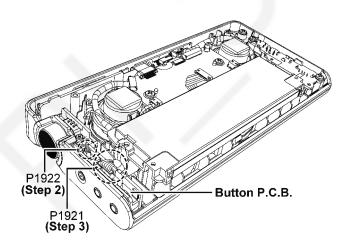


Caution : During assembling, ensure that the Button P.C.B. is properly seated into the guide of the Power Button.



Step 2: Detach 2P wire at connector (P1922) on the Button

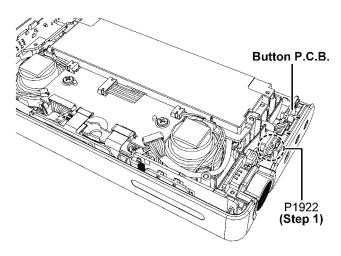
 $\mbox{\bf Step 3}:\mbox{Detach 9P}$ wire at connector (P1921) on the Button P.C.B..



9.9. Disassembly of Volume P.C.B.

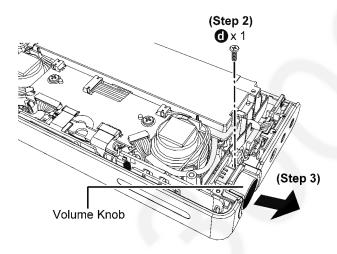
• Refer to "Disassembly of Rear Cabinet Assembly"

Step 1 : Detach 2P wire at connector (P1922) on the Button P.C.B..



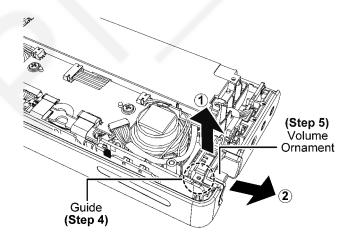
Step 2: Remove 1 screw.

Step 3: Remove the Volume Knob.

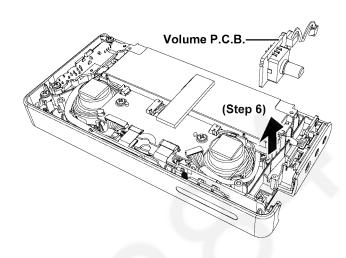


Step 4 : Tilt the Volume Ornament slightly to release the guide as arrow shown in order of sequences (1) to (2).

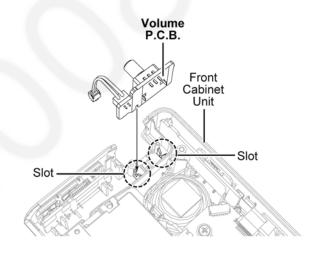
Step 5 : Remove the Volume Ornament.



Step 6: Remove the Volume P.C.B..



Caution: During assembling, ensure that the Volume P.C.B. is properly inserted into the slots of the Front Cabinet Unit.



9.10. Disassembly of Microphone Unit

• Refer to "Disassembly of Rear Cabinet Assembly"

Step 1 : Remove 1 screw.

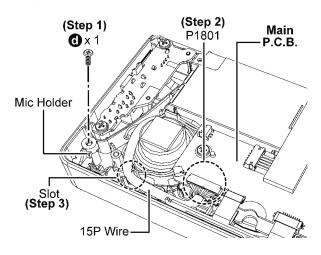
Step 2: Detach 15P FFC at connector (P1801) on the Main

P.C.B..

Step 3: Lift up and release the 15P Wire from the slot.

Caution: During assembling, ensure that the 15P wire is

properly seated into the slot.

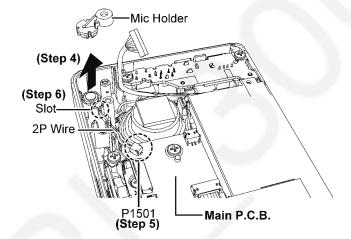


Step 4: Remove the Mic Holder.

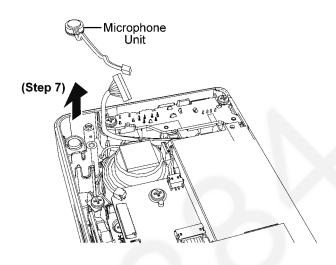
Step 5: Detach 2P wire at connector (P1501) on the Main

P.C.B..

Step 6: Lift up and release the 2P Wire from the slot.



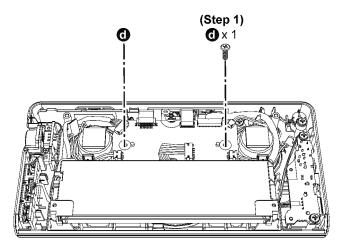
Step 7: Remove the Microphone Unit.



Disassembly of Main P.C.B. 9.11.

• Refer to "Disassembly of Rear Cabinet Assembly"

Step 1: Remove 2 screws.



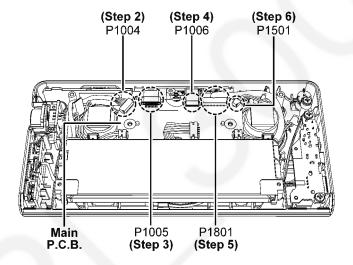
Step 2: Detach 9P wire at connector (P1004) on the Main

Step 3: Detach 9P FFC at connector (P1005) on the Main P.C.B..

Step 4: Detach 16P FFC at connector (P1006) on the Main P.C.B..

Step 5: Detach 15P wire at connector (P1801) on the Main

Step 6: Detach 2P wire at connector (P1501) on the Main P.C.B..

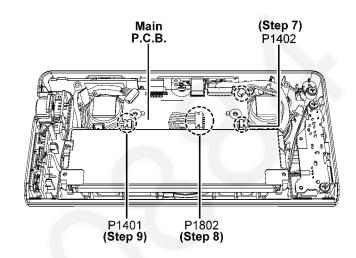


Step 7: Detach 2P wire at connector (P1402) on the Main P.C.B..

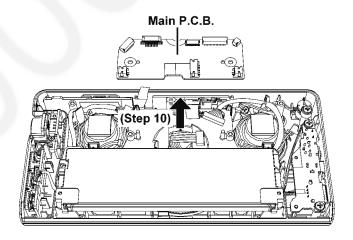
Step 8: Detach 6P wire at connector (P1802) on the Main

P.C.B..

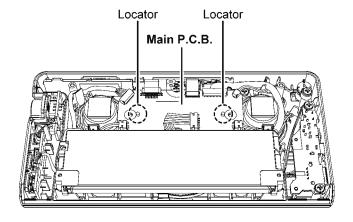
Step 9: Detach 2P wire at connector (P1401) on the Main P.C.B..



Step 10: Remove the Main P.C.B..



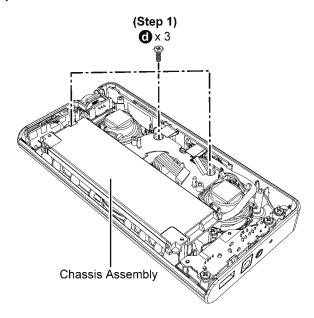
Caution: During assembling, ensure that the Volume P.C.B. is properly seated into the locators.



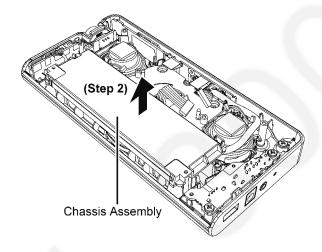
9.12. Disassembly of Battery Pack

- Refer to "Disassembly of Rear Cabinet Assembly"
- Refer to "Disassembly of Main P.C.B."

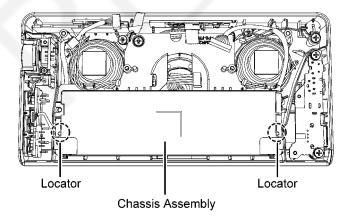
Step 1 : Remove 3 screws.



Step 2: Remove the Chassis Assembly.

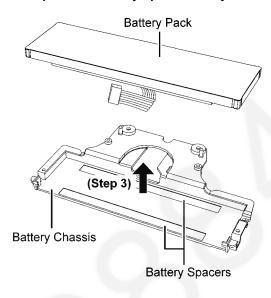


Caution : During assembling, ensure that the Battery Pack Unit is properly seated into the locators.



Step 3: Remove the Battery Pack.

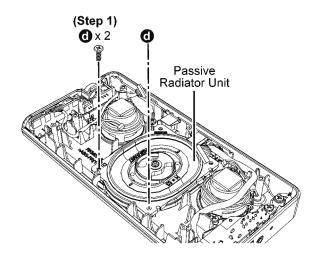
Caution: Replace the Battery Spacers if they are torn.



9.13. Disassembly of Passive Radiator Unit

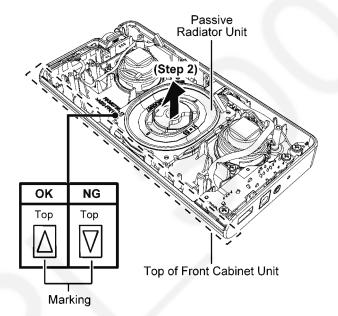
- Refer to "Disassembly of Rear Cabinet Assembly"
- Refer to "Disassembly of Main P.C.B."
- Refer to (Step 1) (Step 2) of item 9.12

Step 1: Remove 2 screws.



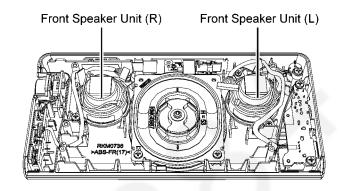
Step 2: Remove the Passive Radiator Unit.

Caution: During assembling, ensure that the marking of Passive Radiator Unit is facing to the top of the Front Cabinet Unit.



9.14. Disassembly of Front Speaker Unit (L) & (R)

Picture shows the location of the Front Speaker Unit (L) & (R).

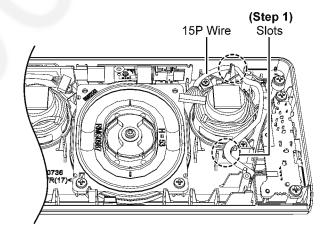


 $\mbox{\bf Note}:$ The disassembling procedure for Front Speaker Unit (L) will be described only.

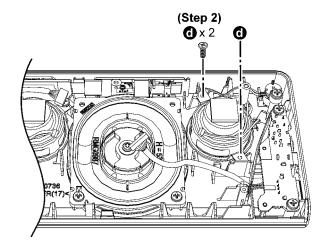
For Front Speaker Unit (R) please refer to the same procedure described here.

- Refer to "Disassembly of Rear Cabinet Assembly"
- Refer to "Disassembly of Main P.C.B."
- Refer to (Step 1) (Step 2) of item 9.12

Step 1: Lift up and release the 15P Wire from the slots.



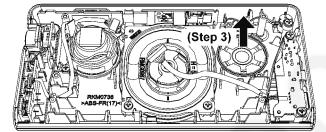
Step 2: Remove 2 screws.



Step 3: Remove the Front Speaker Unit (L).

Front Speaker Unit (L)

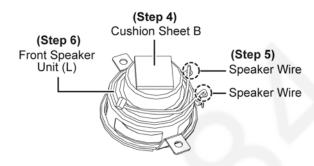


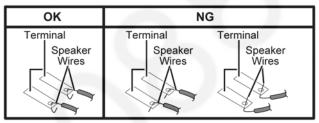


Step 4 : Remove the Cushion Sheet B. **Step 5 :** Desolder the speaker wires.

Step 6: Remove the Front Speaker Unit (L).

Caution : During assembling, ensure that the Speaker Wires are bend as below shown before solder.





10 Service Position

Note: For description of the disassembly procedures, see the Section 9

10.1. Checking of Main P.C.B. (Side B), NFC P.C.B. (Side B), Bluetooth P.C.B. (Side B)

Step 1: Remove the Rear Cabinet Assembly.

Step 2: Remove the Jack P.C.B..

Step 3: Remove the Bluetooth P.C.B..

Step 4: Remove the NFC P.C.B..

Step 5: Remove the Button P.C.B..

Step 6: Remove the Volume P.C.B..

Step 7: Remove the Main P.C.B..

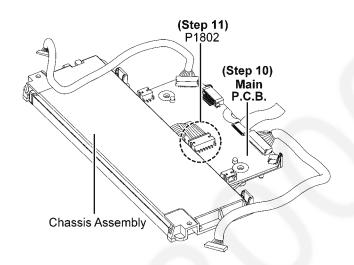
Step 8: Remove the Chassis Assembly.

Step 9: Remove the Front Speaker Unit (L).

Step 10: Place the Main P.C.B. on the Chassis Assembly.

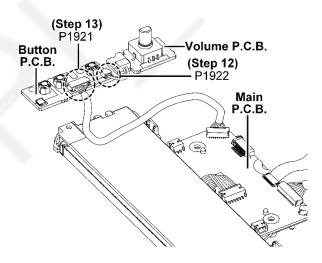
Step 11 : Connect 6P wire at connector (P1802) on the Main

P.C.B..



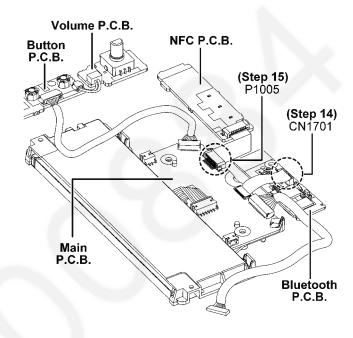
Step 12: Connect 2P wire at connector (P1922) on the Button P.C.B..

Step 13 : Connect 9P wire at connector (P1921) on the Button P.C.B..



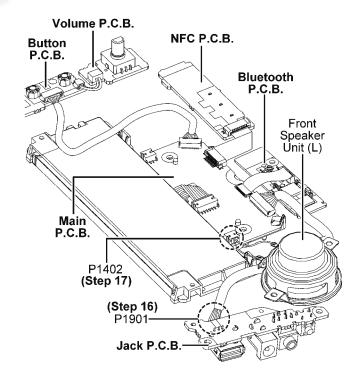
Step 14: Connect 16P FFC at connector (CN1701) on the Bluetooth P.C.B..

Step 15 : Connect 9P FFC at connector (P1005) on the Main P.C.B..

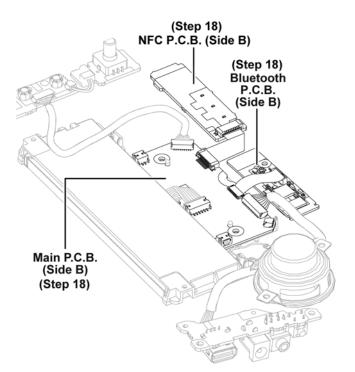


Step 16 : Connect 15P wire at connector (P1901) on the Jack P.C.B..

Step 17 : Connect 2P wire at connector (P1402) on the Main P.C.B..



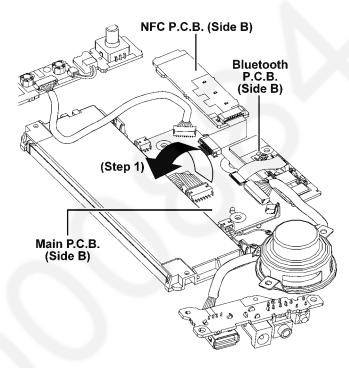
Step 18 : Check Main P.C.B. (Side B), NFC P.C.B. (Side B), Bluetooth P.C.B. (Side B) according to the diagram shown.



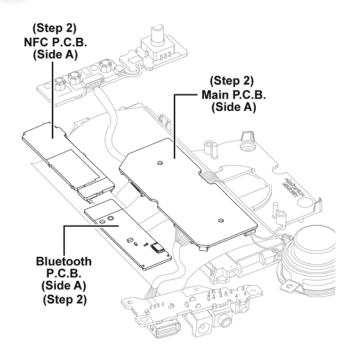
10.2. Checking of Main P.C.B. (Side A), NFC P.C.B. (Side A), Bluetooth P.C.B. (Side A)

• Refer to (Step 1) - (Step 17) of item 10.1.

Step 1: Upset the Main P.C.B., NFC P.C.B., Bluetooth P.C.B..



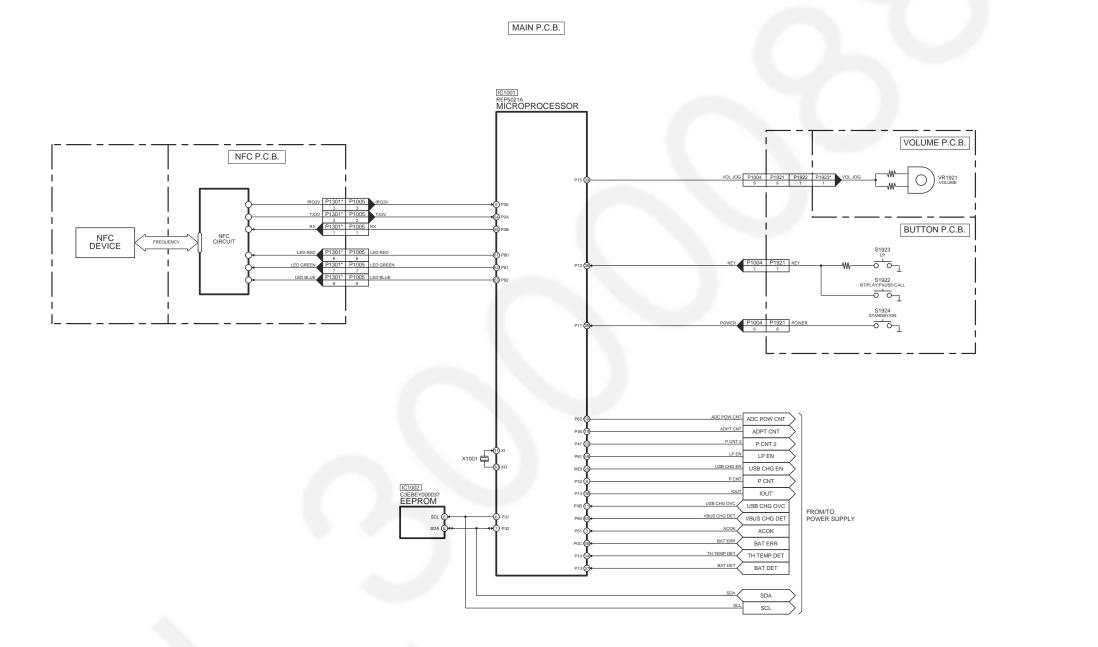
Step 2: Check Main P.C.B. (Side A), NFC P.C.B. (Side A), Bluetooth P.C.B. (Side A) according to the diagram shown.



11 Block Diagram

11.1. SYSTEM CONTROL & AUDIO (1/2) BLOCK DIAGRAM

皿(): AUX/MIC/BLUETOOTH AUDIO INPUT SIGNAL LINE □□□ : AUDIO OUTPUT SIGNAL LINE

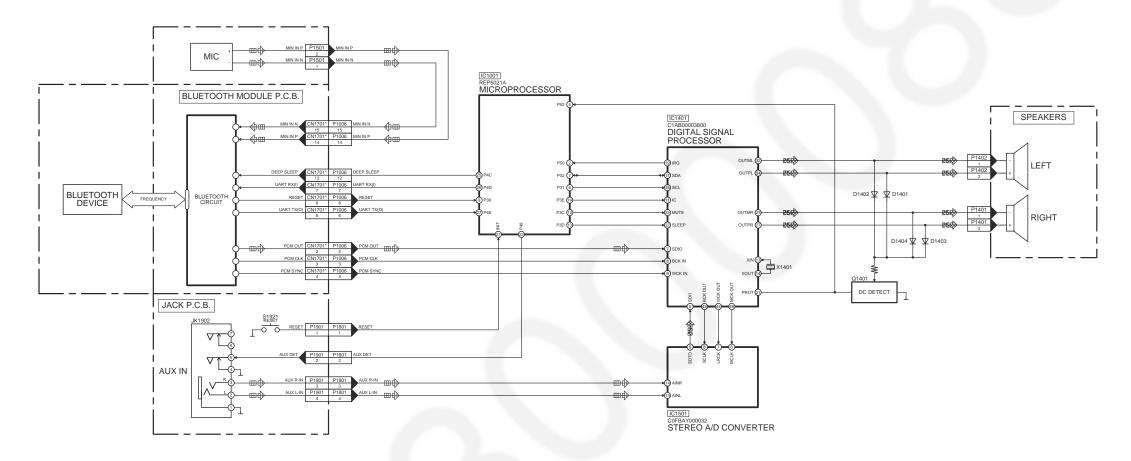


NOTE: " * " REF IS FOR INDICATION ONLY

SC-NA10EB/EG/GN/P/PC SYSTEM CONTROL & AUDIO (1/2) BLOCK DIAGRAM

TO SYSTEM CONTROL & AUDIO BLOCK (2/2) □□□ : AUX/MIC/BLUETOOTH AUDIO INPUT SIGNAL LINE

MAIN P.C.B.

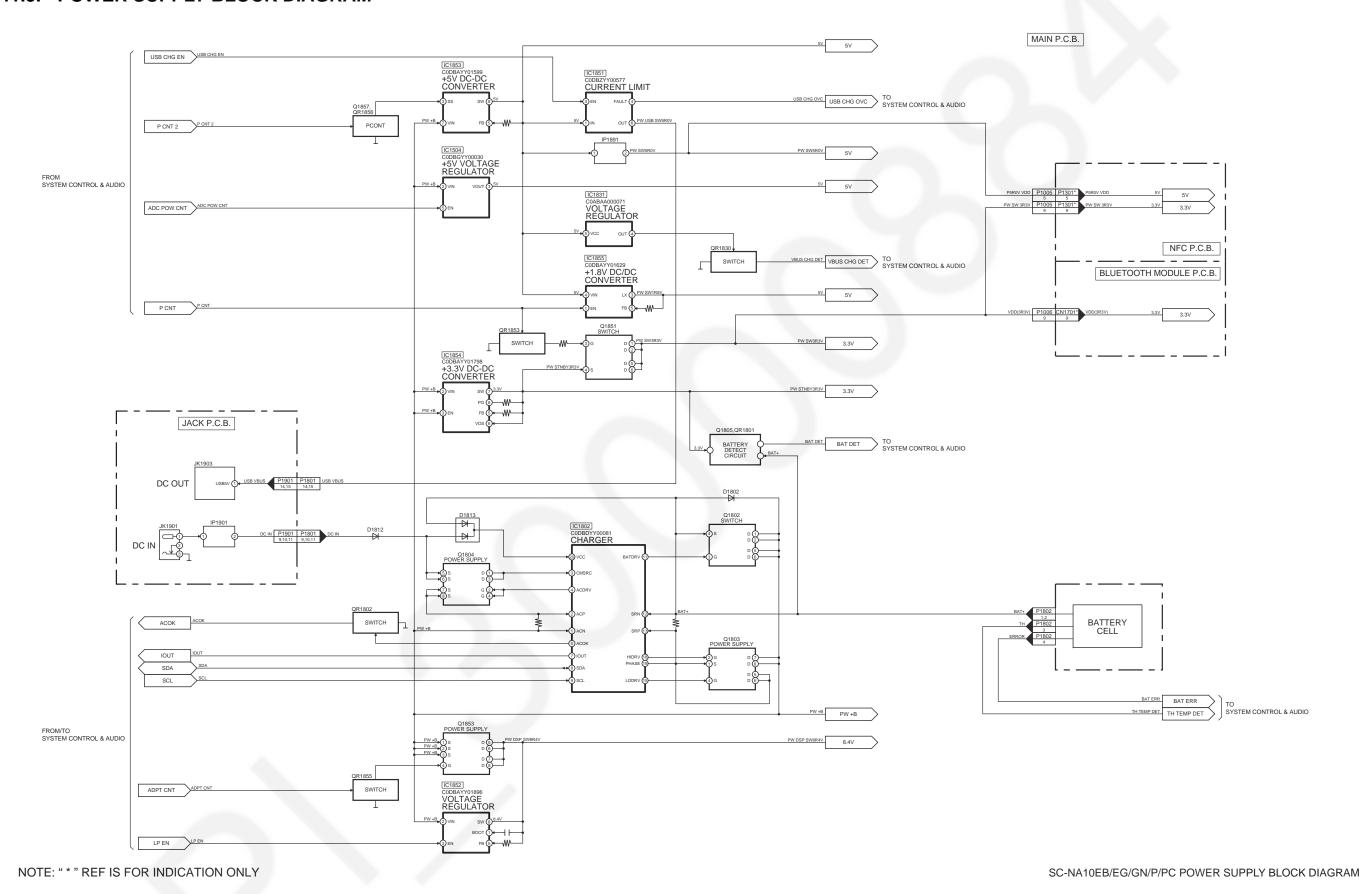




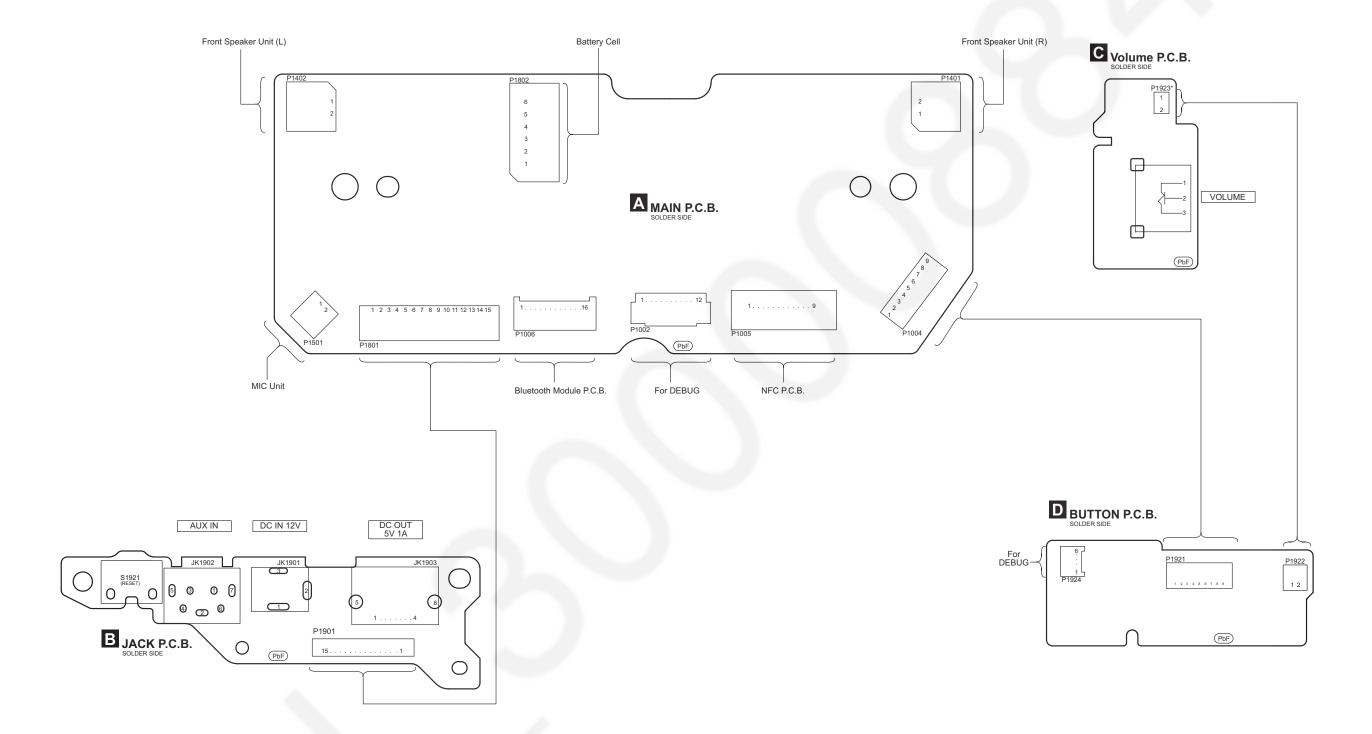
NOTE: " * " REF IS FOR INDICATION ONLY

SC-NA10EB/EG/GN/P/PC SYSTEM CONTROL & AUDIO (2/2) BLOCK DIAGRAM

11.3. POWER SUPPLY BLOCK DIAGRAM



12 Wiring Connection Diagram



SC-NA10EB/EG/GN/P/PC
Note: " * " REF IS FOR INDICATION ONLY.

WIRING CONNECTION DIAGRAM

13 Schematic Diagram

13.1. Schematic Diagram Notes

(All schematic diagrams may be modified at any time with the development of new technology)

Notes:

S1921: S1922: RESET switch.

BT/PLAY/PAUSE/CALL switch (3).

S1923: LP switch.

S1924: Standby/On switch (心/I).

• Important safety notice:

Components identified by A mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high quality sound (capacitors), low-noise (resistors), etc are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Resistor

Unit of resistance is OHM $[\Omega]$ (K=1,000, M=1,000,000).

Capacitor

Unit of capacitance is μF , unless otherwise noted. F=Farads, pF=pico-Farad.

Coil

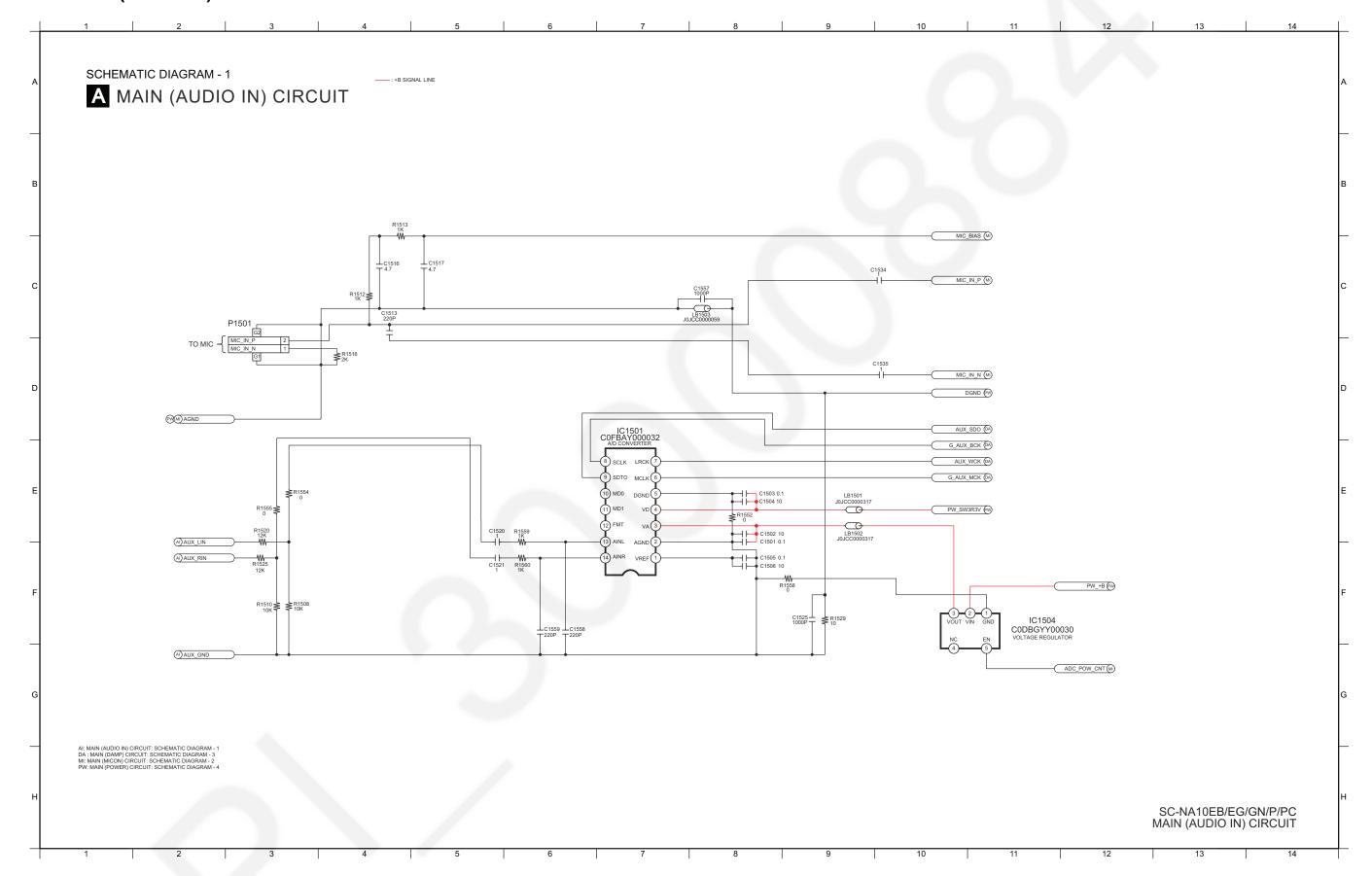
Unit of inductance is H, unless otherwise noted.

REF IS FOR INDICATION ONLY.

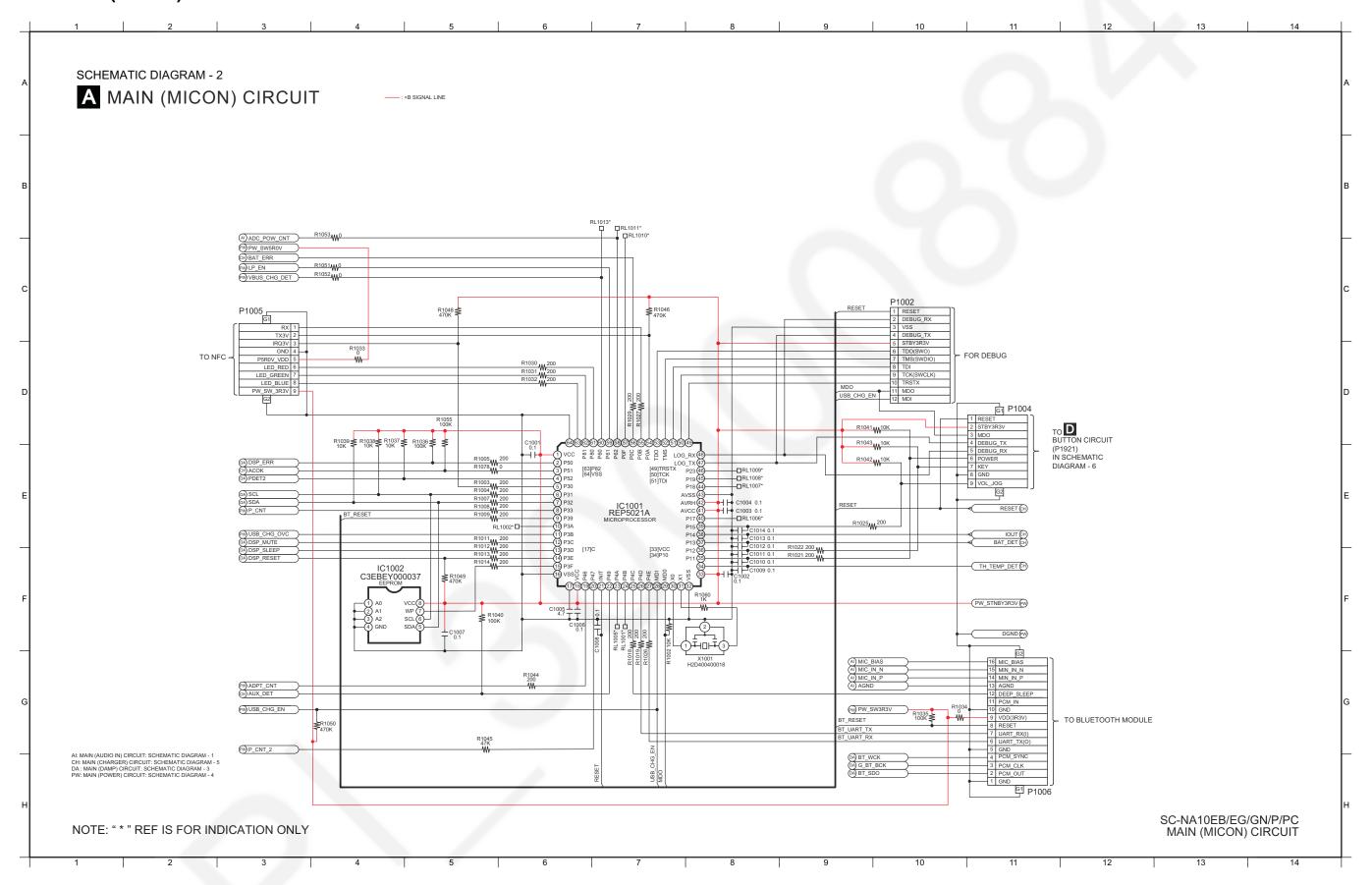
• Voltage and signal line

: +B Signal Line

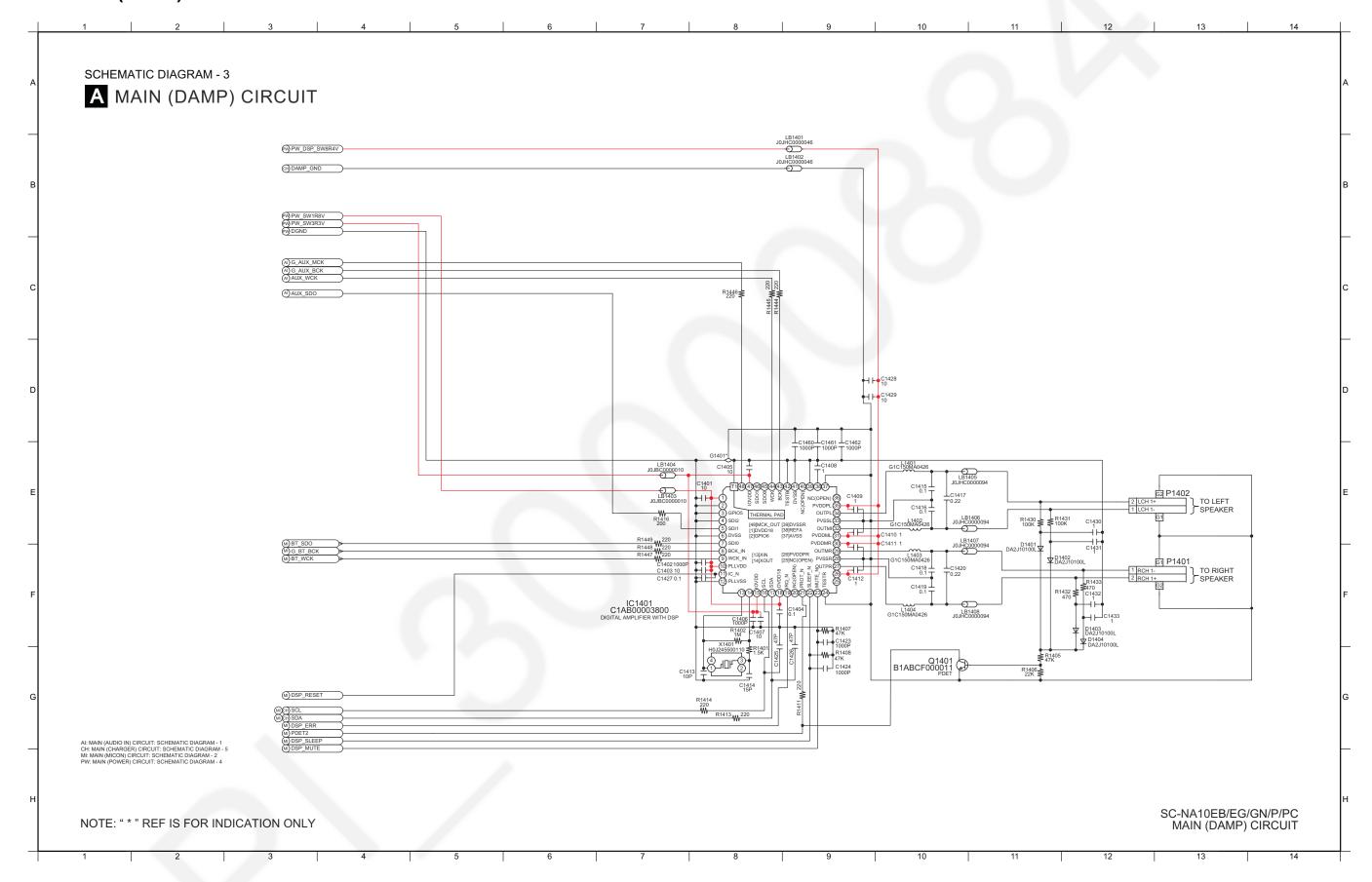
13.2. MAIN (AUDIO IN) CIRCUIT



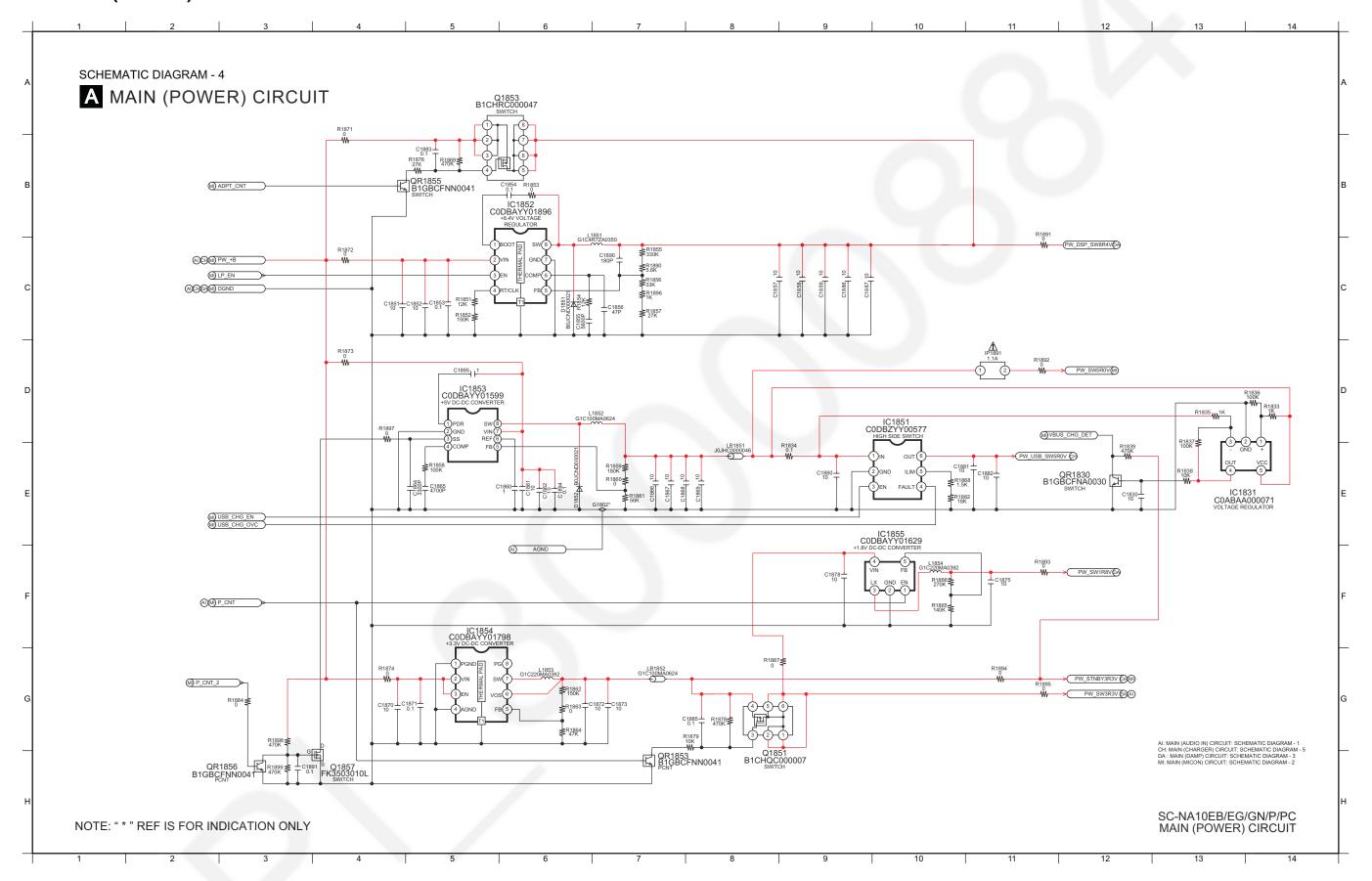
13.3. MAIN (MICON) CIRCUIT



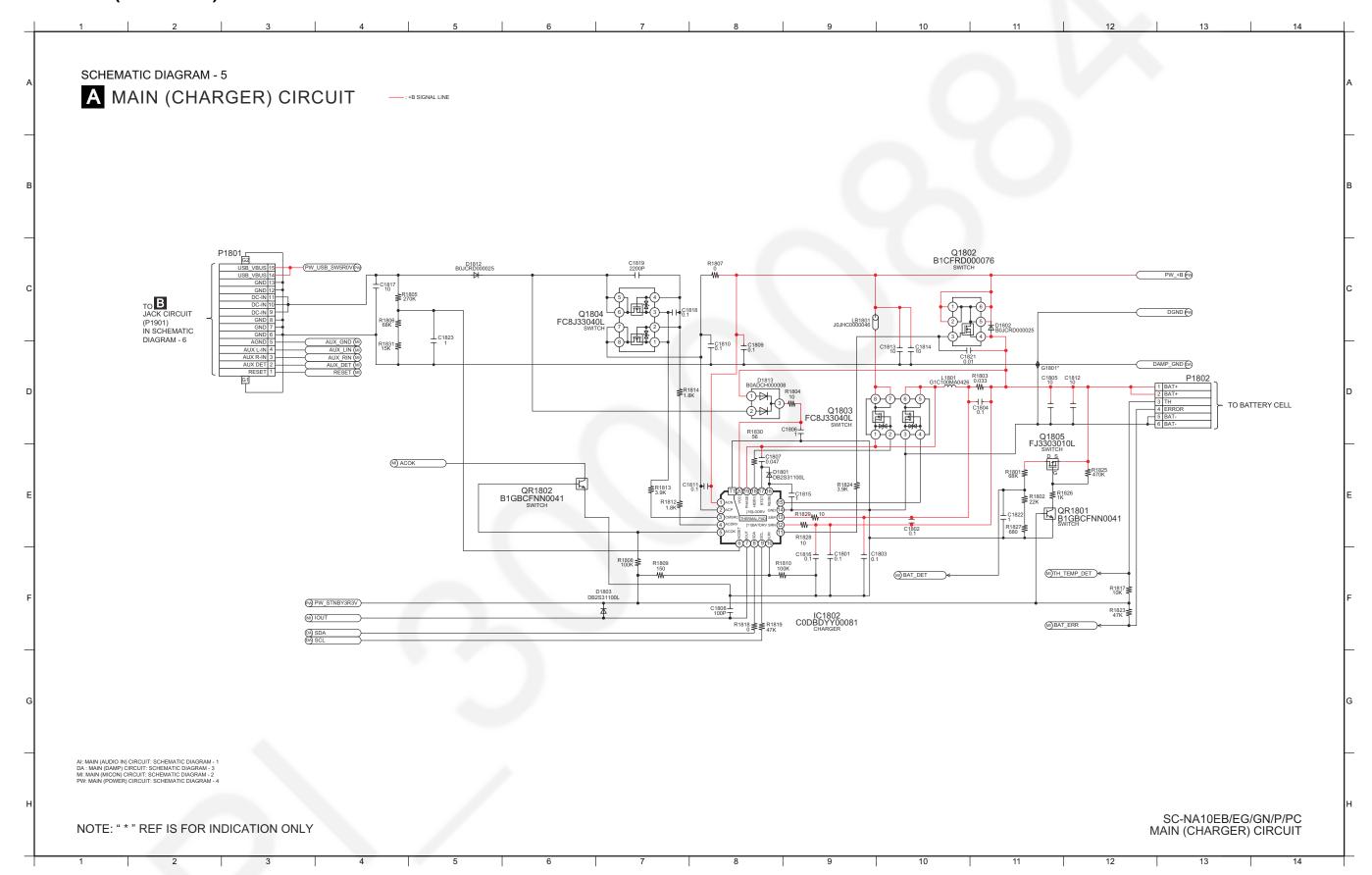
13.4. MAIN (DAMP) CIRCUIT



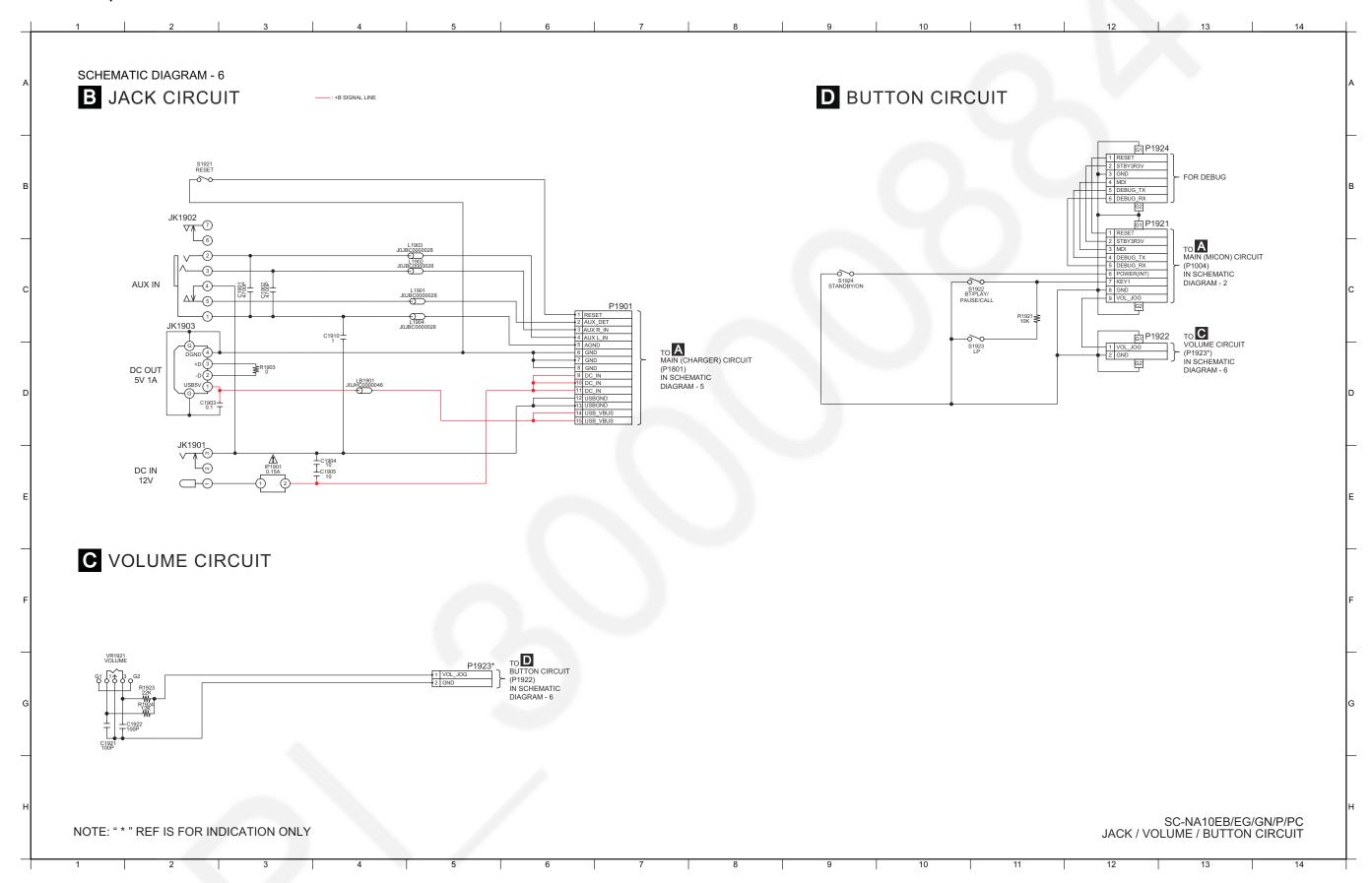
13.5. MAIN (POWER) CIRCUIT



13.6. MAIN (CHARGER) CIRCUIT

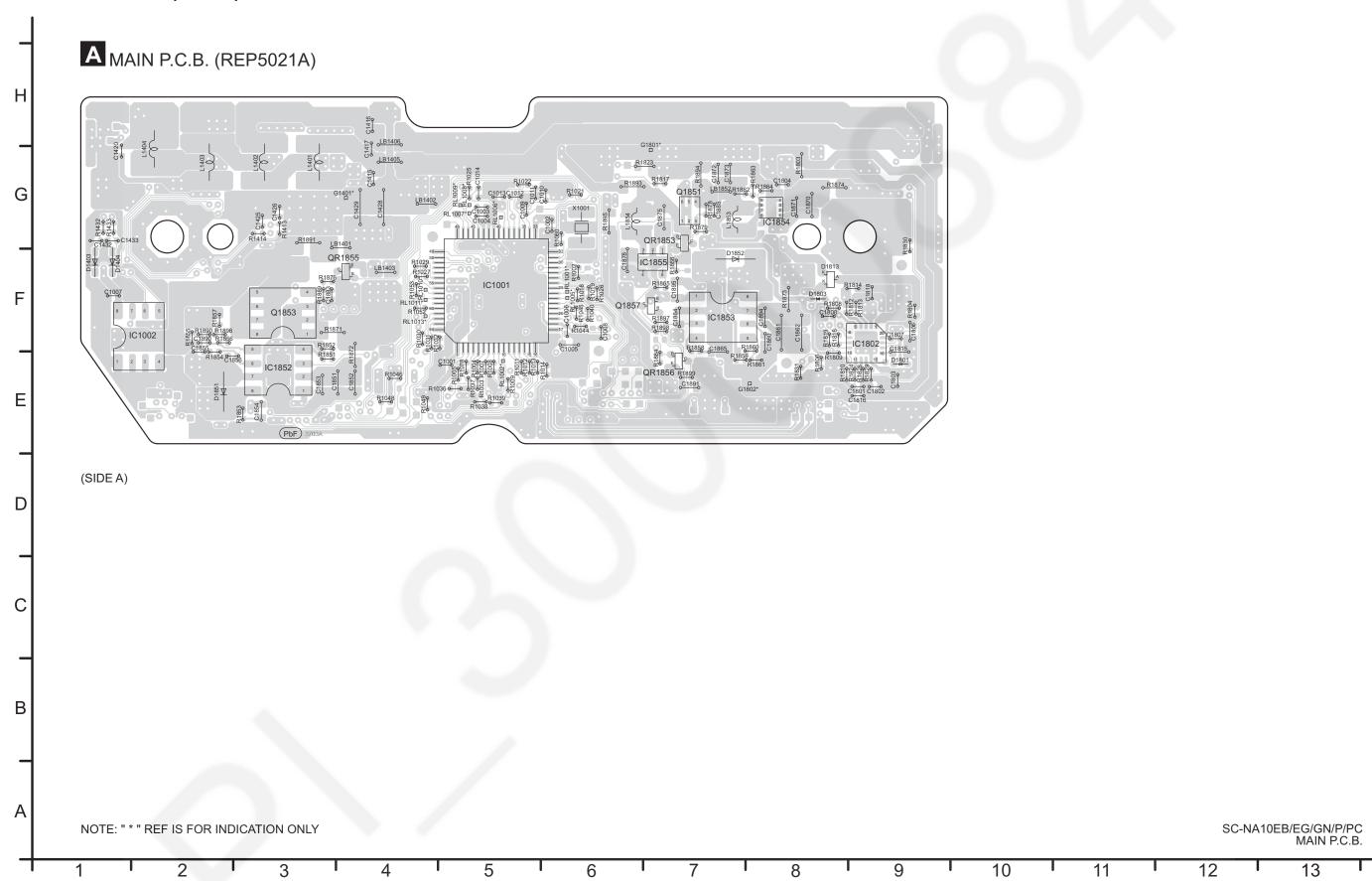


13.7. JACK, VOLUME & BUTTON CIRCUIT

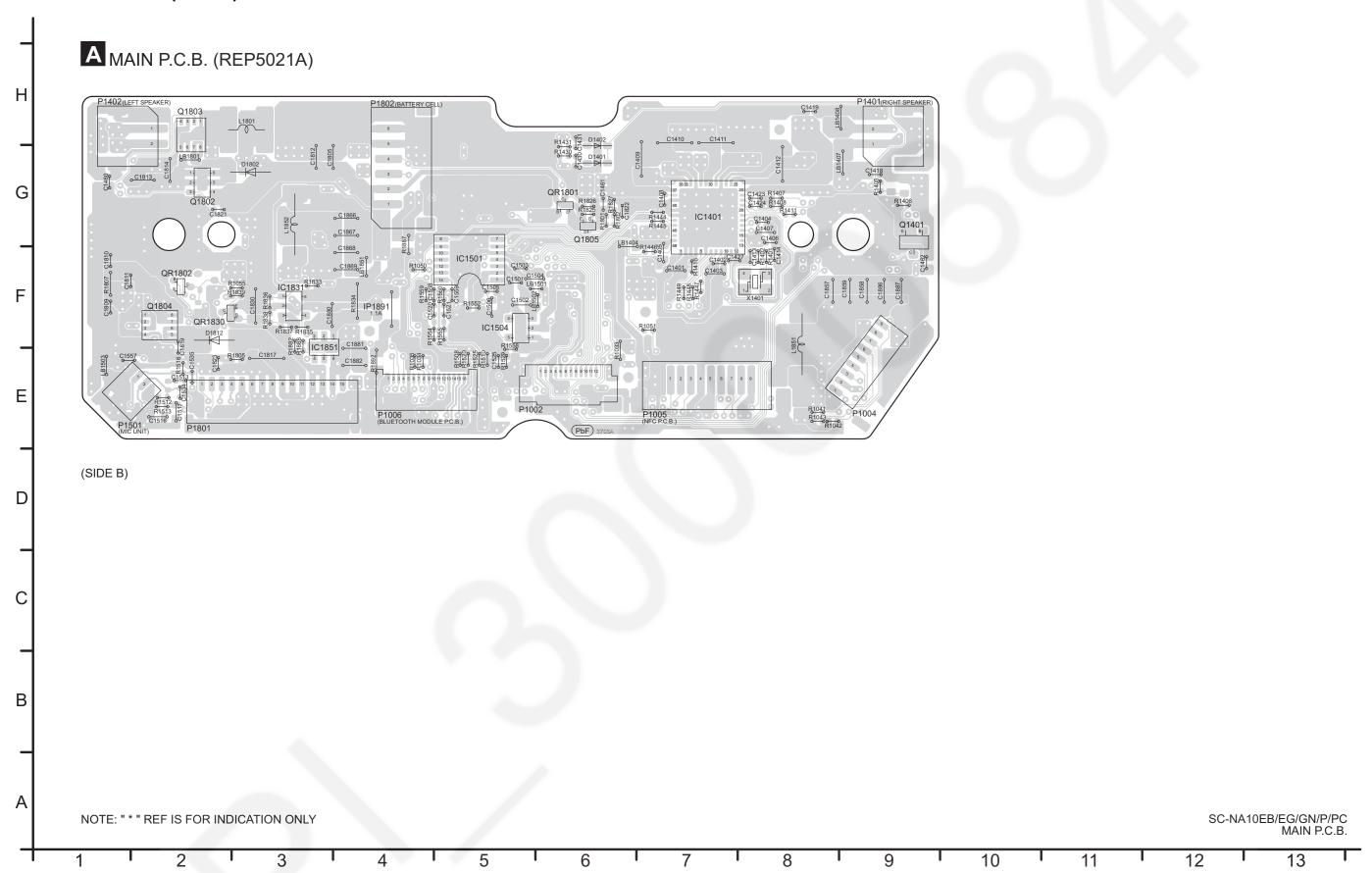


14 Printed Circuit Board

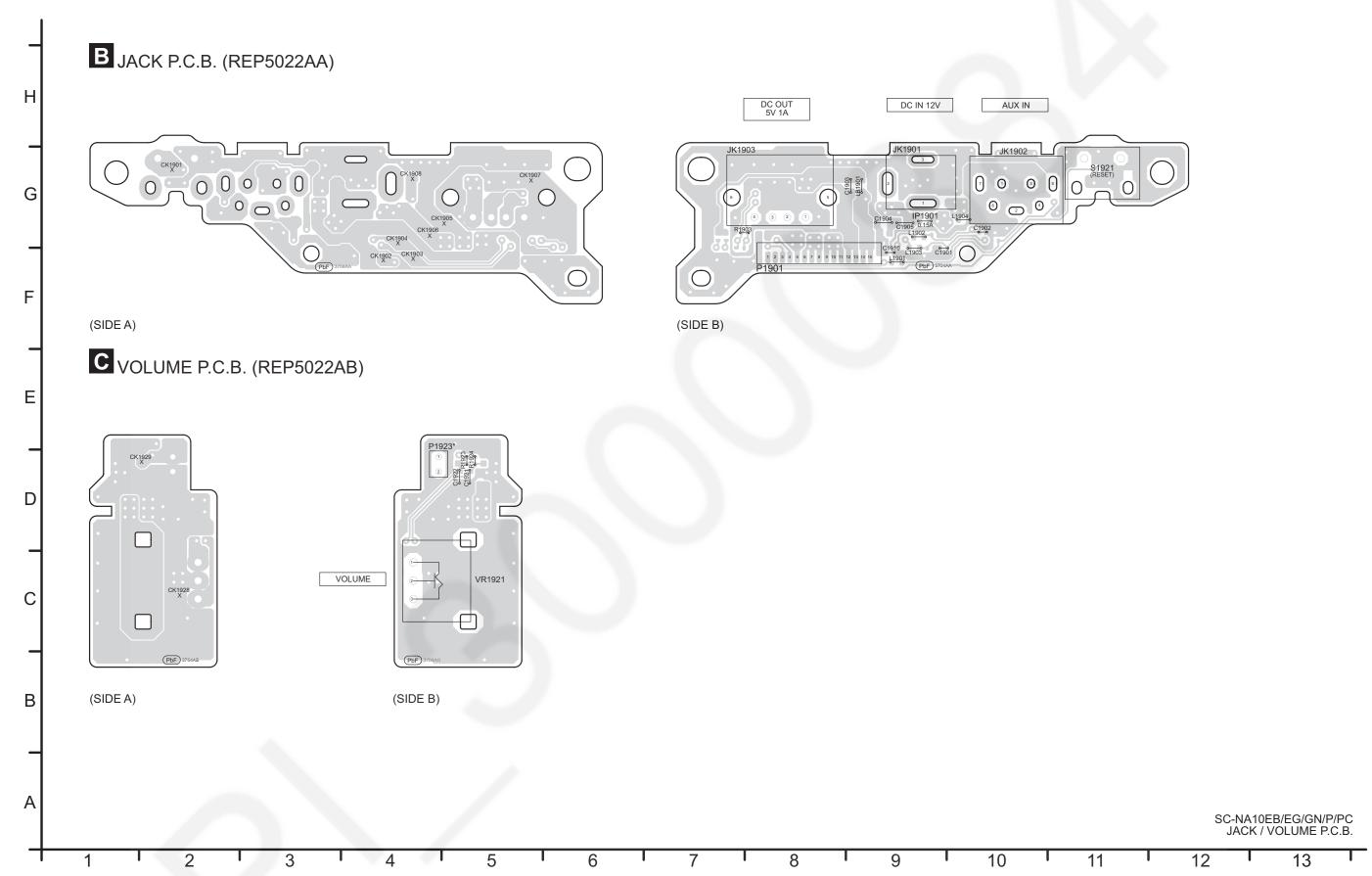
14.1. MAIN P.C.B. (Side A)



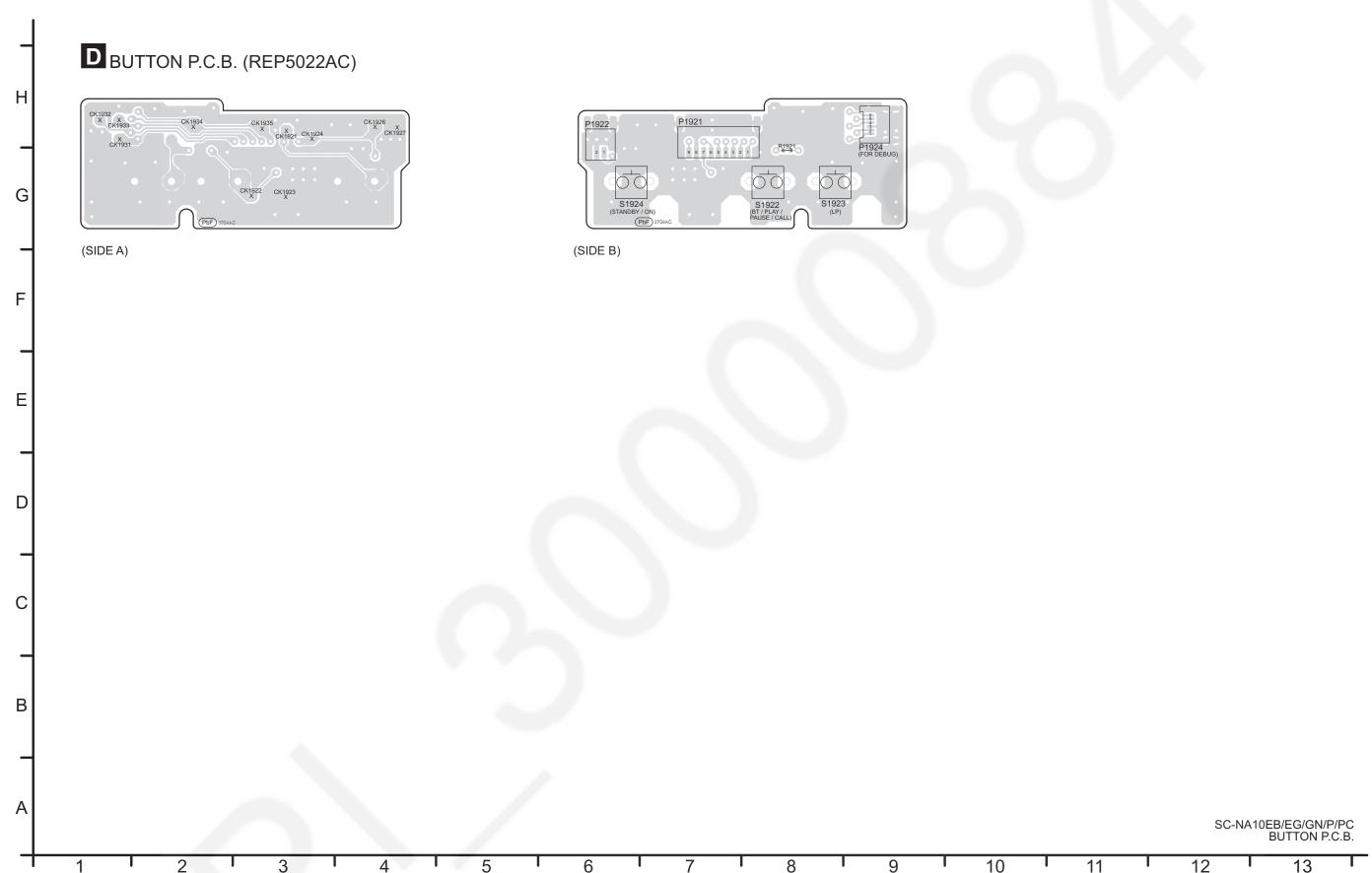
14.2. MAIN P.C.B. (Side B)



14.3. JACK & VOLUME P.C.B.



14.4. BUTTON P.C.B.



15 Appendix Information of Schematic Diagram

15.1. Voltage Measurement & Waveform Chart

Note:

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
 - Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point because it may differ from actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

15.1.1. MAIN P.C.B. (1/3)

REF NO.										IC1	001									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER ON	3.3	3.3	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	1.8	3.3	3.3	3.3
STANDBY	3.3	3.3	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	1.8	3.3	3.3	3.3
			_																	
REF NO.										IC1	001									
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
POWER ON	3.3	0	0	3.3	0	3.3	3.3	0	0	0	0	0	3.3	3.3	3.3	3.3	2.1	2.1	0.1	3.3
STANDBY	3.3	0	0	3.3	0	3.3	3.3	0	0	0	0	0	3.3	3.3	3.3	3.3	2.1	2.1	0.1	3.3
REF NO.										IC1	001									
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
POWER ON	3.3	0	0	3.3	0	0	3.3	0	0	0	1.4	1.4	1.4	3.3	0	0	3.3	3.3	0	3.3
STANDBY	3.3	0	0	3.3	0	0	3.3	0	0	0	1.4	1.4	1.4	3.3	0	0	3.3	3.3	0	3.3
REF NO.										IC1	001									
MODE	61	62	63	64																
POWER ON	1.7	3.3	3.3	0																
STANDBY	1.7	3.3	3.3	0																
REF NO.										IC1	002									
MODE \	1	2	3	4	5	6	7	8												
POWER ON	0	0	0	0	3.3	3.3	3.3	3.3												
STANDBY	0	0	0	0	3.3	3.3	3.3	3.3												<u> </u>
REF NO.			•		_		_			IC1		4.0				l			- 40	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER ON	1.77	0	0	0	0	1.2	0	1.4	1.6	1.7	3.0	0	0	1.5	3.3	2.5	3.3	1.9	0	14
STANDBY	1.77	0	0	0	0	1.2	0	1.4	1.6	1.7	3.0	0	0	1.5	3.3	2.5	3.3	1.9	0	14
DEE NO. 1										IC1	401									
REF NO.	21	22	23	24	25	26	27	28	29			32	22	24	35	36	37	38	20	40
POWER ON	3.2	3.3	3.3	0	0.8	11.9	2.0	0	2.0	30 2.0	31 2.0	2.2	33 0	34 2.2	2.2	0.8	0	0	39	40
STANDBY	3.2	3.3	3.3	0	0.8	11.9	2.0	0	2.0	2.0	2.0	2.2	0	2.2	2.2	0.8	0	0	3.4	0
STANDET	3.2	3.3	3.3	U	0.0	11.9	2.0	U	2.0	2.0	2.0	۷.۷	U	2.2	۷.۷	0.6	U	U	3.4	
REF NO.										IC1	401									
MODE	41	42	43	44	45	46	47	48												
POWER ON	1.6	0	0	1.6	1.6	0	0.6	1.6												
STANDBY	1.6	0	0	1.6	1.6	0	0.6	1.6												
REF NO.										IC1	501									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
POWER ON	2.6	0	5.2	3.3	0	1.6	1.6	1.6	0	0	0	0	2.6	2.6						
STANDBY	2.6	0	5.2	3.3	0	1.6	1.6	1.6	0	0	0	0	2.6	2.6						
REF NO.										IC1	504									
MODE	1	2	3	4	5															
POWER ON	0	11.8	5.2	0	5.0															
STANDBY	0	11.8	5.2	0	5.0															
													SC	-NA1	0EB/	EG/G	N/P/F	C MA	AIN P	.C.B.

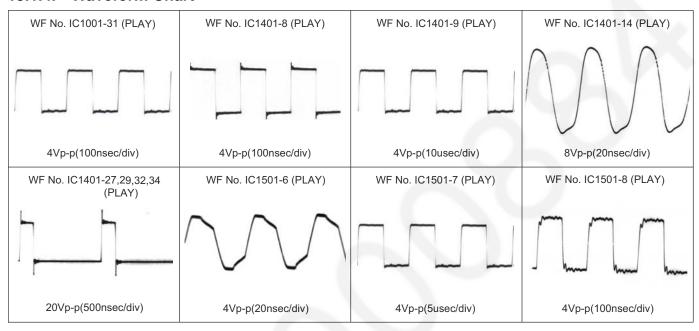
15.1.2. MAIN P.C.B. (2/3)

REF NO.										IC1	802									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
POWER ON	0	11.3	11.9	11.8	0	0	0	0	0	0	7.2	7.3	7.3	0	2.0	6.0	13.2	10.4	7.0	11.
STANDBY	0	11.3	11.9	11.8	0	0	0	0	0	0	7.2	7.3	7.3	0	2.0	6.0	13.2	10.4	7.0	11.
REF NO.										IC1	831									
MODE	1	2	3	4	5															
POWER ON	0	0	0	0	0															
STANDBY	0	0	0	0	0															
REF NO.										IC1	QE1									-
MODE MODE	1	2	3	4	5	6	<u> </u>				001	1				1				
POWER ON		0	_		0.4	_														
STANDBY	5.2	0	1.6 1.6	3.3	0.4	5.2 5.2														-
STAINDET	5.2	U	1.0	3.3	0.4	5.2														
REF NO.										IC1	852									
MODE	1	2	3	4	5	6	7	8												
POWER ON	11.7	12.0	0	0	12.0	0	0.2	1.7												
STANDBY	11.7	12.0	0	0	12.0	0	0.2	1.7												
REF NO.										IC1	853									
MODE \	1	2	3	4	5	6	7	8												
POWER ON	7.0	0	4.2	0.8	1.3	4.3	12.0	5.2												
STANDBY	7.0	0	4.2	8.0	1.3	4.3	12.0	5.2												
REF NO.										IC1	854									
MODE	1	2	3	4	5	6	7	8												
POWER ON	0	11.8	11.8	0	0.8	3.3	3.3	3.3												
STANDBY	0	11.8	11.8	0	0.8	3.3	3.3	3.3												
							•									•				
REF NO.										IC1	855									
MODE	1	2	3	4	5															
POWER ON	3.3	0	1.8	5.2	0.6															<u> </u>
STANDBY	3.3	0	1.8	5.2	0.6															
DEENO		Q1401			1		Q18	202							01	803				
REF NO.	Е	C 1401	В		1	2	3	4	5	6		1	2	3	4	5	6	7	8	
POWER ON	0	3.3					-					9.0	0	0	0	0	0	0	0	
STANDBY	0	3.3	0.3		11.8	11.8	7.3 7.3	7.3	11.8	11.8		9.0	0	0	0	0	0	0	0	
OTANDDT	U	0.0	0.0		11.0	11.0	7.0	7.0	11.0	11.0		0.0	U	U	U	ı °	U	O	0	
REF NO.				Q1	804							Q1	851							
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6					
POWER ON	11.9	18	12	18	12	11.8	11.8	11.9		3.3	3.3	0.6	3.3	3.3	3.3					
STANDBY	11.9	18	12	18	12	11.8	11.8	11.9		3.3	3.3	0.6	3.3	3.3	3.3					
N DEE NO.					050						D400	4			20400				D400	^
REF NO.		_			853	_					QR180				QR180				QR183	_
MODE	1	2	3	4	5	6	7	8		E	С	В		E	С	В		E	С	В
POWER ON	11.8	11.8	11.8	2.5	11.8	11.8	11.8	11.8		0	0	3.3		0	0	2.8		0	3.3	0
STANDBY	11.8	11.8	11.8	2.5	11.8	11.8	11.8	11.8		0	0	3.3		0	0	2.8		0	3.3	0 .C.E

15.1.3. MAIN P.C.B. (3/3)

REF NO.	Ú	QR185	3	(QR185	5	(QR185	6								
MODE	Ш	С	В	Е	C	В	ш	C	В								
POWER ON	0	0	3.3	0	0	3.2	0	0	3.2								
STANDBY	0	0	3.3	0	0	3.2	0	0	3.2								
										SC	-NA1	0EB/	EG/G	N/P/F	C M	AIN P	.C.B.

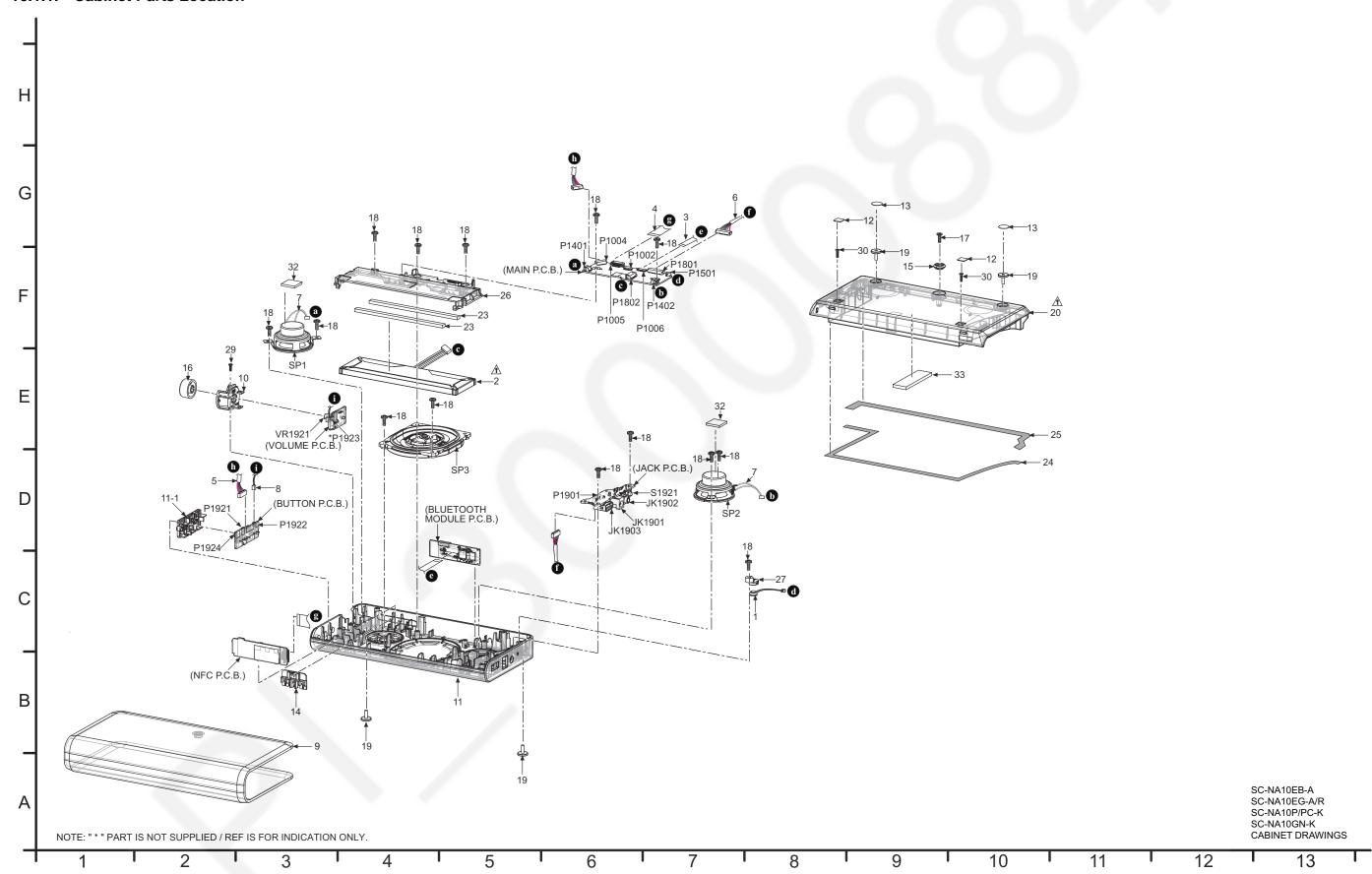
15.1.4. Waveform Chart

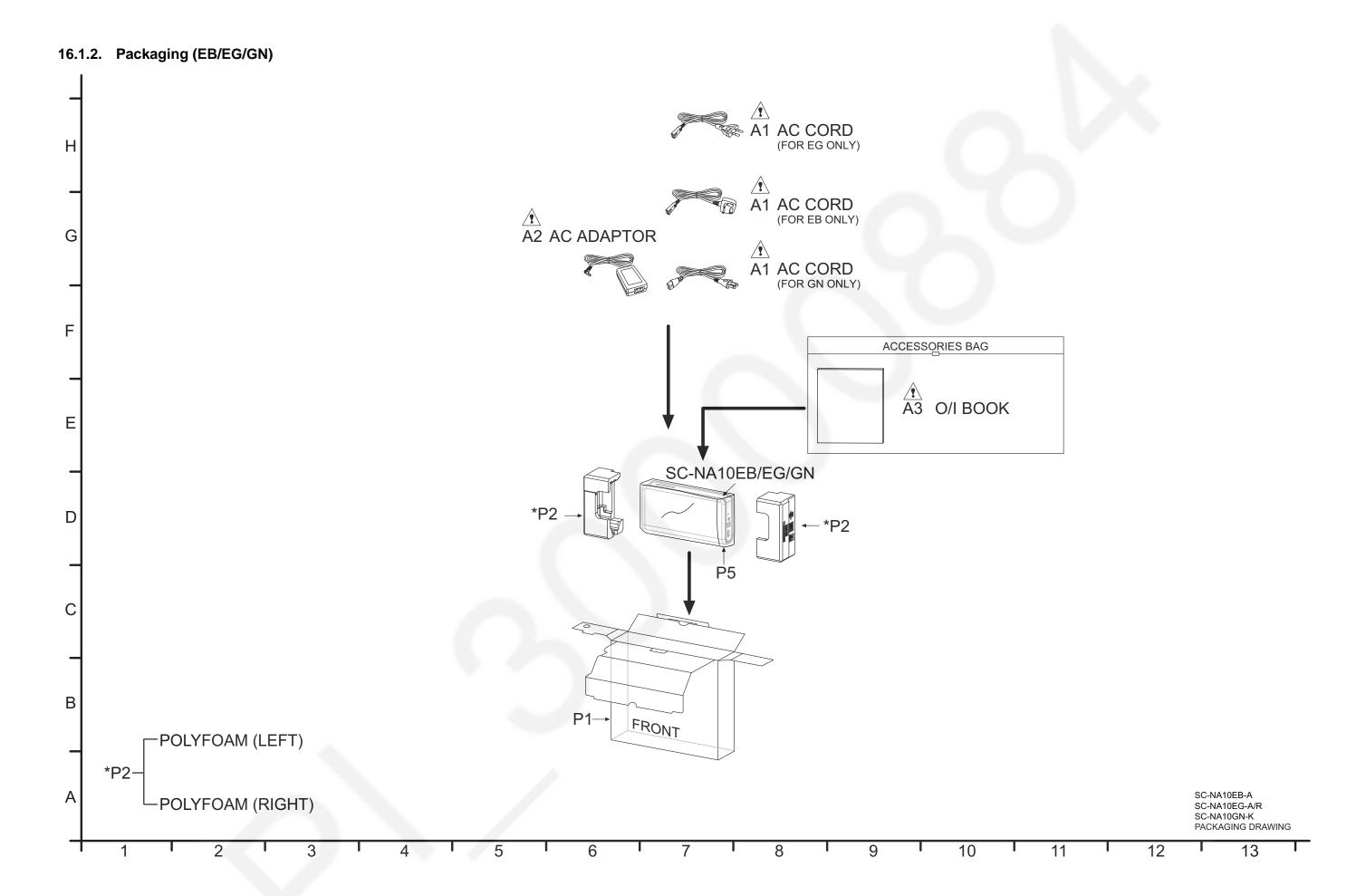


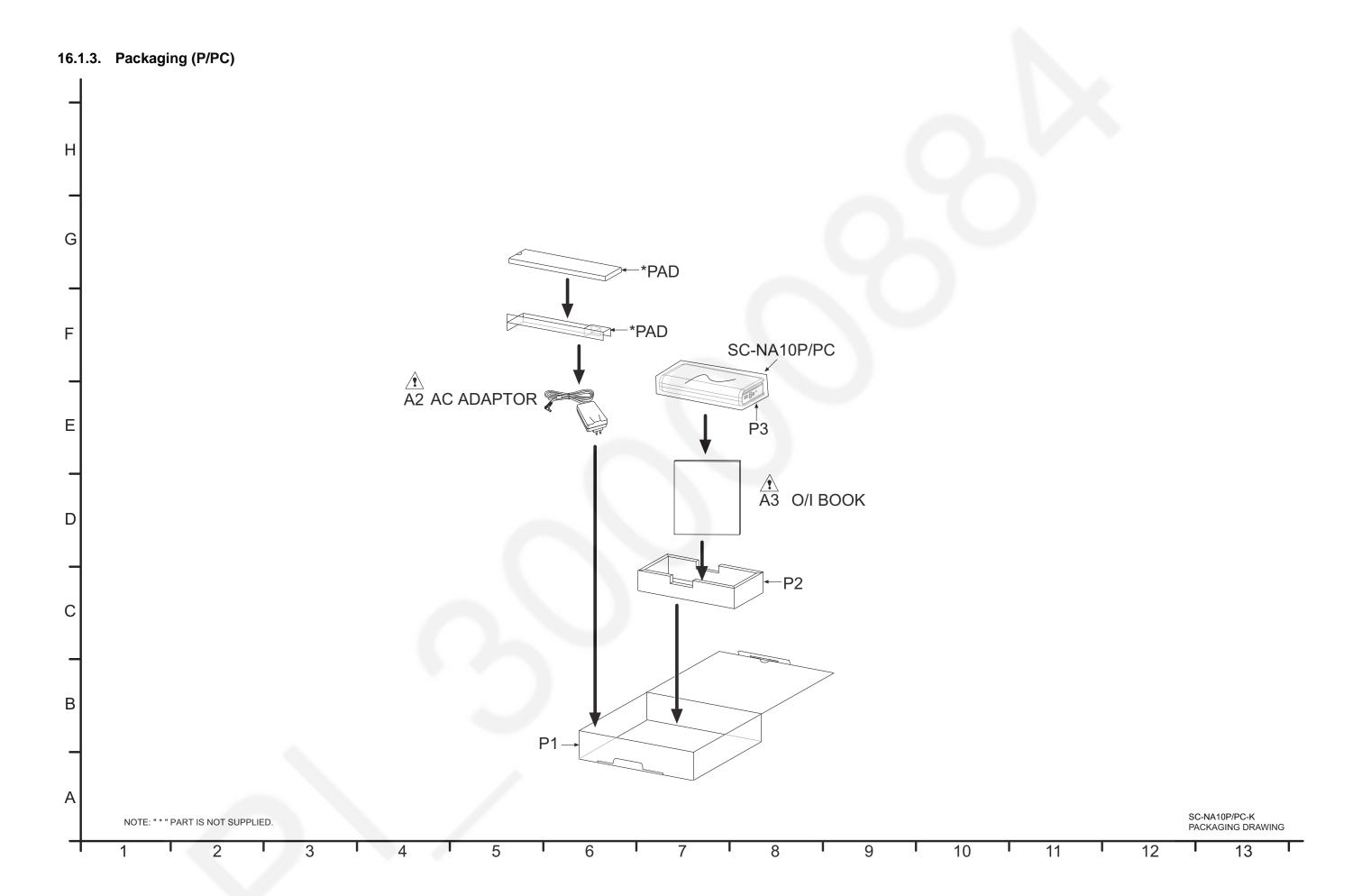
16 Exploded View and Replacement Parts List

16.1. Exploded View and Mechanical replacement Parts List

16.1.1. Cabinet Parts Location







16.1.4. Mechanical Replacement Parts List

Important Safety Notice

Components identified by A mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Note:

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

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

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			CABINET AND CHASSIS		
	1	L0CZAY000015	MIC UNIT	1	
<u> </u>	2	N4HULNZ00001	BATTERY PACK	1	P,PC
Λ	2	N4HULNZ00003	BATTERY PACK	1	EB,EG, GN
	3	REE1854	16P FFC (MAIN - BLUETOOTH)	1	
	4	REE1866	9P FFC (MAIN - NFC)	1	
	5	REX1641	9P WIRE (MAIN - BUTTON)	1	
	6	REX1642	15P WIRE (MAIN - JACK)	1	
	7	REX1645	SPEAKER WIRE	2	
	8	REX1646	2P WIRE (VOLUME - BUTTON)	1	
	9	RFC0159-A	CASE	1	EB-A ,EG-A
	9	RFC0159-K	CASE	1	GN-K,P- K,PC-K
	9	RFC0159-R	CASE	1	EG-R
	10	RGK2522-S	VOLUME ORNAMENT	1	
	11	RFKGCNA10EBK	FRONT CABINET ASS'Y	1	
	11-1	RGU2930-S	POWER BUTTON	1	
	12	RGK2527-K	SCREW ORNAMENT	2	
	13	RGK2534-K	SCREW ORNAMENT B	2	
	14	RGL0793-Q	LED LIGHTING PIECE	1	

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	15	RGQ0789-K	SNAP BUTTON SOCKET	1	
	16	RGW0442-S	VOLUME KNOB	1	
	17	RHD25001	SCREW	1	
	18	RHD26045-L	SCREW	14	
	19	RHD26076	SCREW	4	
	20	RKS0532-K	REAR CABINET	1	EB,EG, GN
Λ	20	RKS0532B-K	REAR CABINET	1	P,PC
	23	RMG0969-K	BATTERY SPACER	2	
	24	RMQ2231	NON WOVEN FAB- RIC CLOTH A	1	
	25	RMQ2232	NON WOVEN FAB- RIC CLOTH B	1	
	26	RMR2136-K	CHASSIS	1	
	27	RMR2139-C	MIC HOLDER	1	
	29	VHD1224-1A	SCREW	1	
	30	XTS2+8JFJK	SCREW	2	
	32	RMG0984-K	CUSHION SHEET B	2	
	33	RMG0985-K	CUSHION SHEET C	1	
			SPEAKERS		
	SP1	L0AA04A00058	FRONT SPEAKER UNIT (L)	1	
	SP2	L0AA04A00058	FRONT SPEAKER UNIT (R)	1	
	SP3	RAQ0103	PASSIVE RADIA- TOR UNIT	1	
			PACKING MATERI- ALS		

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	P1	RPK3010	PACKING CASE	1	EG-A
	P1	RPK3012	PACKING CASE	1	EB-A
	P1	RPK3041	PACKING CASE	1	EG-R
	P1	RPK3014	PACKING CASE	1	PC-K
	P1	RPK3015	PACKING CASE	1	GN-K
	P1	RPK3057	PACKING CASE	1	P
	P2	RPN2605	POLYFOAM	1	EB,EG, GN,PC
	P2	RPQ3269	POLYFOAM	1	P
	P3	RPF0694	BAG	1	P
	P5	RPF0682	PROTECTION SHEET	1	EB,EG, GN,PC
			ACCESSORIES		
⚠	A1	K2CQ2YY00119	AC CORD	1	EG
⚠	A1	K2CT2YY00097	AC CORD	1	EB
Δ	A1	K2CJ2YY00093	AC CORD	1	GN
Δ	A2	RFEA228C-AG	AC ADAPTOR	1	P,PC
A	A2	RFEA229E-AH	AC ADAPTOR	1	EB,EG, GN
Δ	A3	VQT5C36	O/I BOOK (En)	1	P,PC
Δ	A3	VQT5C37	O/I BOOK (Cf)	1	PC
⚠	A3	VQT5C38	O/I BOOK (Ge/Fr/ It/Sp/Du)	1	EG
A	A3	VQT5C39	O/I BOOK (Sw/Da/ Fi)	1	EG
A	A3	VQT5C51	O/I BOOK (En)	1	EB,EG, GN

16.2. Electrical Replacement Parts List

Important Safety Notice

Components identified by A mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Note:

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

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

Safety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
			PRINTED CIR- CUITS BOARD		
	PCB1	REP5021A	MAIN P.C.B.	1	(RTL)
	PCB2	REP5022AA	JACK P.C.B.	1	(RTL)
	PCB3	REP5022AB	VOLUME P.C.B.	1	(RTL)
	PCB4	REP5022AC	BUTTON P.C.B.	1	(RTL)
	PCB5	REP5022AD	NFC P.C.B.	1	
	PCB6	REP5025A	BLUETOOTH MOD- ULE UNIT	1	
			INTEGRATED CIR-		
4			CUITS		
	IC1001	REP5021A	IC	1	(E.S.D)
	IC1002	C3EBEY000037	IC	1	(E.S.D)
	IC1401	C1AB00003800	IC	1	(E.S.D)
	IC1501	C0FBAY000032	IC	1	(E.S.D)
	IC1504	C0DBGYY00030	IC	1	(E.S.D)
	IC1802	C0DBDYY00081	IC	1	(E.S.D)
	IC1831	C0ABAA000071	IC	1	(E.S.D)
	IC1851	C0DBZYY00577	IC	1	(E.S.D)
	IC1852	CODBAYY01896	IC	1	(E.S.D)
	IC1853	CODBAYY01599	IC	1	(E.S.D)
	IC1854	CODBAYY01798	IC	1	(E.S.D)
	IC1855	CODBAYY01629	IC	1	(E.S.D)
			TRANSISTORS		
				1	
	Q1401	B1ABCF000011	TRANSISTOR	1	(E.S.D)
	Q1802	B1CFRD000076	TRANSISTOR	1	(E.S.D)
	Q1803	FC8J33040L	TRANSISTOR	1	(E.S.D)
	Q1804	FC8J33040L	TRANSISTOR	1	(E.S.D)
	01805	FJ3303010L	TRANSISTOR	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name &	QTY	Remarks
			Description		
	Q1851	B1CHQC000007	TRANSISTOR	1	(E.S.D)
	Q1853	B1CHRC000047	TRANSISTOR	1	(E.S.D)
	Q1857	FK3503010L	TRANSISTOR	1	(E.S.D)
	QR1801	B1GBCFNN0041	TRANSISTOR	1	(E.S.D)
	QR1802	B1GBCFNN0041	TRANSISTOR	1	(E.S.D)
	QR1830	B1GBCFNA0030	TRANSISTOR	1	(E.S.D)
	QR1853	B1GBCFNN0041	TRANSISTOR	1	(E.S.D)
	QR1855	B1GBCFNN0041	TRANSISTOR	1	(E.S.D)
	QR1856	B1GBCFNN0041	TRANSISTOR	1	(E.S.D)
			DIODES		
			DIODES		
	D1401	DA2J10100L	DIODE	1	(E.S.D)
	D1402	DA2J10100L	DIODE	1	(E.S.D)
	D1403	DA2J10100L	DIODE	1	(E.S.D)
	D1404	DA2J10100L	DIODE	1	(E.S.D)
	D1801	DB2S31100L	DIODE	1	(E.S.D)
	D1802	B0JCRD000025	DIODE	1	(E.S.D)
	D1803	DB2S31100L	DIODE	1	(E.S.D)
	D1812	B0JCRD000025	DIODE	1	(E.S.D)
	D1813	B0ADCH000008	DIODE	1	(E.S.D)
	D1851	B0JCND000021	DIODE	1	(E.S.D)
	D1852	B0JCND000021	DIODE	1	(E.S.D)
			VARIABLE RESIS- TOR		
	VR1921	K0N201C00005	VOLUME JOG	1	
			SWITCHES		
				-	
	S1921	EVQPC105K	SW RESET	1	
	S1922	EVQ11G04M	SW BT/PLAY/ PAUSE/CALL	1	
	S1923	EVQ11G04M	SW LP	1	

Safety	Ref. No	. Part No.	Part Name & Description	QTY	Remarks
	S1924	EVQ11G04M	SW STANDBY/ON	1	
	-	~			<u> </u>
			COILS AND INDUC-		
			TORS		
	L1401	G1C150MA0426	INDUCTOR	1	
	L1402	G1C150MA0426	INDUCTOR	1	
	L1403	G1C150MA0426	INDUCTOR	1	
	L1404 L1801	G1C150MA0426 G1C100MA0426	INDUCTOR	1	
	L1851	G1C4R7ZA0350	INDUCTOR INDUCTOR	1	-
	L1852	G1C100MA0624	INDUCTOR	1	
	L1853	G1C220MA0392	INDUCTOR	1	
	L1854	G1C220MA0392	INDUCTOR	1	
	L1901	J0JBC0000028	INDUCTOR	1	
	L1902	J0JBC0000028	INDUCTOR	1	
	L1903	J0JBC0000028	INDUCTOR	1	
	L1904	J0JBC0000028	INDUCTOR	1	
	LB1401	J0JHC0000046	INDUCTOR	1	
	LB1402	J0JHC0000046	INDUCTOR	1	
	LB1403	J0JBC0000010	INDUCTOR	1	
	LB1404	J0JBC0000010	INDUCTOR	1	
	LB1405	J0JHC0000094	INDUCTOR	1	
	LB1406	J0JHC0000094	INDUCTOR	1	
	LB1407	J0JHC0000094	INDUCTOR	1	
	LB1408	J0JHC0000094	INDUCTOR	1	
	LB1501	J0JCC0000317	INDUCTOR	1	
	LB1502	J0JCC0000317	INDUCTOR	1	
	LB1503	J0JCC0000059	INDUCTOR	1	
	LB1801	J0JHC0000046	INDUCTOR	1	
	LB1851	J0JHC0000046	INDUCTOR	1	
	LB1852	J0JHC0000046	INDUCTOR	1	
	LB1901	J0JHC0000046	INDUCTOR	1	
			CONNECTORS		
	P1002	K1MN12BA0189	12P CONNECTOR	1	
	P1004	K1KA09BA0014	9P CONNECTOR	1	
	P1005	K1MN09BA0148	9P CONNECTOR	1	
	P1006	K1MY16BA0641	16P CONNECTOR	1	
	P1401	K1KA02BA0047	2P CONNECTOR	1	
	P1402	K1KA02BA0047	2P CONNECTOR	1	
	P1501	K1KA02BA0014	2P CONNECTOR	1	
	P1801	K1KA15BA0014	15P CONNECTOR	1	
	P1802	K1KA06BA0047	6P CONNECTOR	1	
	P1901	K1KA15AA0200	15P CONNECTOR	1	
	P1921	K1KA09BA0014	9P CONNECTOR	1	
	P1922	K1KA02BA0014 K1MY06BA0641	2P CONNECTOR	1	
	P1924	AIMIUOBAU641	6P CONNECTOR	1	<u> </u>
	1		OCCITI AMORG	1	<u> </u>
		+	OSCILLATORS	1	
	X1001	H2D400400018	OSCILLATOR	1	
	X1401	H0J245500110	OSCILLATOR	1	
	117.101	10024000110	SSCILLARIOR	Ė	-
			RESETTABLE FUSE	1	
				1	
Δ	IP1891	D4FB1R100015	RESETTABLE FUSE	1	
دد				Ε	-
			PROTECTOR	1	
		+		 	
<u> </u>	IP1901	D1JBR015A007	PROTECTOR	1	
5.3				Ε	-
			JACKS	-	-
				-	-
	JK1901	K2EZYB000009	JK DC IN	1	-
	JK1901	K2HC1YYB0033	JK AUX IN	1	-
	JK1902	K1FY104B0076	JK DC OUT	1	-
	221703	277 770 7500 / 6	JR 20 001	1	-
	1		RESISTORS	-	
			KESISIOKS		
	1	1	1	<u> </u>	
	R1002	D0GA103JA023	10K 1/16W	1	

R1004 ERJ2GEJ2O1X 200 1/16W 1 R1005 ERJ2GEJ2O1X 200 1/16W 1 R1007 ERJ2GEJ2O1X 200 1/16W 1 R1008 ERJ2GEJ2O1X 200 1/16W 1 R1009 ERJ2GEJ2O1X 200 1/16W 1 R10101 ERJ2GEJ2O1X 200 1/16W 1 R1011 ERJ2GEJ2O1X 200 1/16W 1 R1012 ERJ2GEJ2O1X 200 1/16W 1 R1013 ERJ2GEJ2O1X 200 1/16W 1 R1014 ERJ2GEJ2O1X 200 1/16W 1 R1015 ERJ2GEJ2O1X 200 1/16W 1 R1016 ERJ2GEJ2O1X 200 1/16W 1 R1017 ERJ2GEJ2O1X 200 1/16W 1 R1018 ERJ2GEJ2O1X 200 1/16W 1 R1019 ERJ2GEJ2O1X 200 1/16W 1 R1019 ERJ2GEJ2O1X 200 1/16W 1 R1021 ERJ2GEJ2O1X 200 1/16W 1 R1022 ERJ2GEJ2O1X 200 1/16W 1 R1025 ERJ2GEJ2O1X 200 1/16W 1 R1026 ERJ2GEJ2O1X 200 1/16W 1 R1027 ERJ2GEJ2O1X 200 1/16W 1 R1028 ERJ2GEJ2O1X 200 1/16W 1 R1039 ERJ2GEJ2O1X 200 1/16W 1 R1030 ERJ2GEJ2O1X 200 1/16W 1 R1031 ERJ2GEJ2O1X 200 1/16W 1 R1032 ERJ2GEJ2O1X 200 1/16W 1 R1033 ERJ2GEJ2O1X 200 1/16W 1 R1033 ERJ2GEJ2O1X 200 1/16W 1 R1034 ERJ2GEJ2O1X 200 1/16W 1 R1035 ERJ2GEJ2O1X 200 1/16W 1 R1036 ERJ2GEJ2O1X 200 1/16W 1 R1037 ERJ2GEJ2O1X 200 1/16W 1 R1038 ERJ2GEJ2O1X 200 1/16W 1 R1039 DGGAIO4JA023 100K 1/16W 1 R1036 DGGAIO4JA023 100K 1/16W 1 R1037 DGGAIO4JA023 100K 1/16W 1 R1038 DGGAIO4JA023 100K 1/16W 1 R1038 DGGAIO4JA023 100K 1/16W 1 R1039 DGGAIO4JA023 100K 1/16W 1 R1039 DGGAIO3JA023 10K 1/16W 1 R1040 DGGAIO3JA023 10K 1/16W 1 R1040 DGGAIO3JA023 10K 1/16W 1 R1041 DGGAIO3JA023 10K 1/16W 1 R1042 DGGAIO3JA023 10K 1/16W 1 R1044 ERJ2GEJ474X 470K 1/16W 1 R1045 ERJ2GEJ474X 470K 1/16W 1 R1046 ERJ2GEJ474X 470K 1/16W 1 R1047 ERJ2GEJAGEJ474X 470K 1/16W 1 R1048 ERJ2GEJ474X 470K 1/16W 1 R1050 ERJ2GEJ474X 470K 1/16W 1 R1051 ERJ2GEGROOX 0 1/16W 1 R1052 ERJ2GEGROOX 0 1/16W 1 R1053 ERJ2GEGROOX 0 1/16W 1 R1054 ERJ2GEJ474X 470K 1/16W 1 R1055 DGGAIO4JA023 10K 1/16W 1 R1046 ERJ2GEJ474X 470K 1/16W 1 R1051 ERJ2GEGROOX 0 1/16W 1 R1053 ERJ2GEOROX 0 1/16W 1 R1054 ERJ2GEJATAX 470K 1/16W 1 R1055 DGGAIO4JA023 10K 1/16W 1 R1050 ERJ2GEJATAX 470K 1/16W 1 R1051 ERJ2GEGROOX 0 1/16W 1 R1051 ERJ2GEGROOX 0 1/16W 1 R1051 ERJ2GEGROOX 0 1/16W 1 R1052 ERJ2GEGROOX 0 1/16W 1 R1053 ERJ2GEGROOX 0 1/16W 1 R1054 ERJ2GEJAGA 22 20 1/16W 1 R1058 DGGAIO3JAO23 20	Safety	Ref. No.	Part No.		rt Name & scription	QTY	Remarks
R1005 ERJZGEJ201X 200 1/16W 1 R1007 ERJZGEJ201X 200 1/16W 1 R1008 ERJZGEJ201X 200 1/16W 1 R1009 ERJZGEJ201X 200 1/16W 1 R1011 ERJZGEJ201X 200 1/16W 1 R1011 ERJZGEJ201X 200 1/16W 1 R1011 ERJZGEJ201X 200 1/16W 1 R1013 ERJZGEJ201X 200 1/16W 1 R1014 ERJZGEJ201X 200 1/16W 1 R1018 ERJZGEJ201X 200 1/16W 1 R1019 ERJZGEJ201X 200 1/16W 1 R1021 ERJZGEJ201X 200 1/16W 1 R1022 ERJZGEJ201X 200 1/16W 1 R1025 ERJZGEJ201X 200 1/16W 1 R1026 ERJZGEJ201X 200 1/16W 1 R1027 ERJZGEJ201X 200 1/16W 1 R1028 ERJZGEJ201X 200 1/16W 1 R1029 ERJZGEJ201X 200 1/16W 1 R1030 ERJZGEJ201X 200 1/16W 1 R1031 ERJZGEJ201X 200 1/16W 1 R1032 ERJZGEJ201X 200 1/16W 1 R1033 DOGB00JA008 0 1/16W 1 R1034 ERJZGEJ201X 200 1/16W 1 R1035 DOGA104JA023 100K 1/16W 1 R1036 DOGA104JA023 100K 1/16W 1 R1037 DOGA103JA023 10K 1/16W 1 R1038 DOGA103JA023 10K 1/16W 1 R1039 DOGA103JA023 10K 1/16W 1 R1039 DOGA103JA023 10K 1/16W 1 R1040 DOGA104JA023 10K 1/16W 1 R1041 DOGA103JA023 10K 1/16W 1 R1042 DOGA103JA023 10K 1/16W 1 R1044 ERJZGEJ201X 200 1/16W 1 R1046 ERJZGEJ474X 470K 1/16W 1 R1047 ERJZGEJ701X 200 1/16W 1 R1048 ERJZGEJ701X 200 1/16W 1 R1049 ERJZGEJ701X 200 1/16W 1 R1041 DOGA103JA023 10K 1/16W 1 R1042 DOGA103JA023 10K 1/16W 1 R1043 DOGA103JA023 10K 1/16W 1 R1044 ERJZGEJ701X 200 1/16W 1 R1041 DOGA103JA023 10K 1/16W 1 R1043 DOGA103JA023 10K 1/16W 1 R1044 ERJZGEJ701X 200 1/16W 1 R1045 ERJZGED700X 0 1/16W 1 R1046 ERJZGEJ701X 200 1/16W 1 R1047 ERJZGEJ701X 200 1/16W 1 R1048 ERJZGEJ701X 200 1/16W 1 R1049 ERJZGEJ701X 200 1/16W 1 R1040 DOGA103JA023 10K 1/16W 1 R1041 DOGA103JA023 10K 1/16W 1 R1041 DOGA103JA023 10K 1/16W 1 R1041 DOGA22JJA023 200 1/16W 1 R1041 DOGA22JJA023 200 1/16W 1 R1044 DOGA22JJA023 200 1/16W 1 R1044 DOG	1	R1004	ERJ2GEJ201X			1	
R1008 ERJ2GEJ2O1X 200 1/16W 1 R1009 ERJ2GEJ2O1X 200 1/16W 1 R1011 ERJ2GEJ2O1X 200 1/16W 1 R1012 ERJ2GEJ2O1X 200 1/16W 1 R1013 ERJ2GEJ2O1X 200 1/16W 1 R1014 ERJ2GEJ2O1X 200 1/16W 1 R1018 ERJ2GEJ2O1X 200 1/16W 1 R1019 ERJ2GEJ2O1X 200 1/16W 1 R1019 ERJ2GEJ2O1X 200 1/16W 1 R1019 ERJ2GEJ2O1X 200 1/16W 1 R1021 ERJ2GEJ2O1X 200 1/16W 1 R1022 ERJ2GEJ2O1X 200 1/16W 1 R1022 ERJ2GEJ2O1X 200 1/16W 1 R1022 ERJ2GEJ2O1X 200 1/16W 1 R1025 ERJ2GEJ2O1X 200 1/16W 1 R1026 ERJ2GEJ2O1X 200 1/16W 1 R1027 ERJ2GEJ2O1X 200 1/16W 1 R1028 ERJ2GEJ2O1X 200 1/16W 1 R1029 ERJ2GEJ2O1X 200 1/16W 1 R1030 ERJ2GEJ2O1X 200 1/16W 1 R1031 ERJ2GEJ2O1X 200 1/16W 1 R1031 ERJ2GEJ2O1X 200 1/16W 1 R1031 ERJ2GEJ2O1X 200 1/16W 1 R1032 ERJ2GEJ2O1X 200 1/16W 1 R1033 DOGROOJA008 0 1/16W 1 R1034 ERJ2GEJ2O1X 200 1/16W 1 R1035 DOGA104JA003 100X 1/16W 1 R1036 DOGA104JA023 100X 1/16W 1 R1037 DOGA103JA023 10X 1/16W 1 R1038 DOGA103JA023 10X 1/16W 1 R1039 DOGA103JA023 10X 1/16W 1 R1039 DOGA103JA023 10X 1/16W 1 R1039 DOGA103JA023 10X 1/16W 1 R1040 DOGA103JA023 10X 1/16W 1 R1041 DOGA103JA023 10X 1/16W 1 R1042 DOGA103JA023 10X 1/16W 1 R1044 ERJ2GEJ2O1X 200 1/16W 1 R1045 ERJ2GEJ474X 470X 1/16W 1 R1046 ERJ2GEJ474X 470X 1/16W 1 R1047 ERJ2GEJ474X 470X 1/16W 1 R1048 ERJ2GEJ474X 470X 1/16W 1 R1049 ERJ2GEJ474X 470X 1/16W 1 R1051 ERJ2GEORO0X 0 1/16W 1 R1051 ERJ2GEORO0X 0 1/16W 1 R1051 ERJ2GEDRO0X 0 1/16W 1 R1051 ERJ2GEORO0X 0 1/16W 1 R1051 ERJ2GEORO0X 0 1/16W 1 R1064 DOGA103JA023 1X 1/16W 1 R1065 DOGA103JA023 1X 1/16W 1 R1065 DOGA103JA023 1X 1/16W 1 R1061 DOGA103JA023 1X 1/16W 1 R1062 DOGA103JA023 1X 1/16W 1 R1063 DOGA103JA023 1X 1/16W 1 R1064 ERJ2GEJ474X 470X 1/16W 1 R1065 ERJ2GEJ474X 470X 1/16W 1 R1066 DOGA22JA023 1X 1/16W 1 R1067 ERJ2GEJ474X 470X 1/16W 1 R1068 ERJ2GEJ474X 470X 1/16W 1 R1069 DOGA103JA023 1X 1/16W	1	R1005				1	
R1009 ERJZGEJZOLX 200 1/16W 1 R1011 ERJZGEJZOLX 200 1/16W 1 R1012 RJZGEJZOLX 200 1/16W 1 R1013 ERJZGEJZOLX 200 1/16W 1 R1014 ERJZGEJZOLX 200 1/16W 1 R1014 ERJZGEJZOLX 200 1/16W 1 R1018 ERJZGEJZOLX 200 1/16W 1 R1019 ERJZGEJZOLX 200 1/16W 1 R1019 ERJZGEJZOLX 200 1/16W 1 R1021 ERJZGEJZOLX 200 1/16W 1 R1021 ERJZGEJZOLX 200 1/16W 1 R1022 ERJZGEJZOLX 200 1/16W 1 R1023 ERJZGEJZOLX 200 1/16W 1 R1024 ERJZGEJZOLX 200 1/16W 1 R1025 ERJZGEJZOLX 200 1/16W 1 R1026 ERJZGEJZOLX 200 1/16W 1 R1027 ERJZGEJZOLX 200 1/16W 1 R1027 ERJZGEJZOLX 200 1/16W 1 R1030 ERJZGEJZOLX 200 1/16W 1 R1031 ERJZGEJZOLX 200 1/16W 1 R1031 ERJZGEJZOLX 200 1/16W 1 R1031 ERJZGEJZOLX 200 1/16W 1 R1033 DOGROOJAOOS 0 1/16W 1 R1034 ERJZGEJZOLX 200 1/16W 1 R1035 DOGALOJAOOS 0 1/16W 1 R1036 DOGALOJAOOS 0 1/16W 1 R1037 DOGALOJAOOS 0 1/16W 1 R1038 DOGALOJAOOS 10OK 1/16W 1 R1039 DOGALOJAOOS 10OK 1/16W 1 R1039 DOGALOJAOOS 10OK 1/16W 1 R1039 DOGALOJAOOS 10OK 1/16W 1 R1030 DOGALOJAOOS 10OK 1/16W 1 R1031 DOGALOJAOOS 10OK 1/16W 1 R1034 ERJZGEJZOLX 200 1/16W 1 R1035 DOGALOJAOOS 10OK 1/16W 1 R1036 DOGALOJAOOS 10OK 1/16W 1 R1037 DOGALOJAOOS 10OK 1/16W 1 R1038 DOGALOJAOOS 10OK 1/16W 1 R1040 DOGALOJAOOS 10OK 1/16W 1 R1041 DOGALOJAOOS 10OK 1/16W 1 R1042 DOGALOJAOOS 10OK 1/16W 1 R1044 ERJZGEJYOX 4V 1/16W 1 R1044 ERJZGEJYOX 10OK 1/16W 1 R1045 DOGALOJAOOS 10OK 1/16W 1 R1046 ERJZGEJYOX 4V 1/16W 1 R1047 DOGALOJAOOS 10OK 1/16W 1 R1048 ERJZGEJYOX 4V 1/16W 1 R1049 ERJZGEJYOX 4V 1/16W 1 R1049 ERJZGEJYOX 10OK 1/16W 1 R1040 DOGALOJAOOS 10OK 1/16W 1 R1041 DOGALOJAOOS 10OK 1/16W 1 R1042 DOGALOJAOOS 10OK 1/16W 1 R1044 ERJZGEJYOX 4V 4VOK 1/16W 1 R1045 ERJZGEJYOX 4VOK 1/16W 1 R1046 ERJZGEJYOX 4VOK 1/16W 1 R1047 DOGALOJAOOS 10OK 1/16W 1 R1048 ERJZGEJYOX 4VOK 1/16W 1 R1049 ERJZGEJYOX 4VOK 1/16W 1 R1041 DOGALOJAOOS 10OK 1/16W 1 R1041 DOGALOJAOOS 20OK	1	R1007	ERJ2GEJ201X	200	1/16W	1	
R1011	1	R1008	ERJ2GEJ201X	200	1/16W	1	
R1012	1	R1009	ERJ2GEJ201X	200	1/16W	1	
R1013	1	R1011	ERJ2GEJ201X	200	1/16W	1	
R1014		R1012	ERJ2GEJ201X	200	1/16W	1	
R1018		R1013	ERJ2GEJ201X	200	1/16W	1	
R1019		R1014	ERJ2GEJ201X	200	1/16W	1	
R1021 ERJ2GEJ201X 200 1/16W 1 R1022 ERJ2GEJ201X 200 1/16W 1 R1025 ERJ2GEJ201X 200 1/16W 1 R1026 ERJ2GEJ201X 200 1/16W 1 R1027 ERJ2GEJ201X 200 1/16W 1 R1029 ERJ2GEJ201X 200 1/16W 1 R1030 ERJ2GEJ201X 200 1/16W 1 R1031 ERJ2GEJ201X 200 1/16W 1 R1032 ERJ2GEJ201X 200 1/16W 1 R1033 DGGB00JA008 0 1/10W 1 R1034 ERJ2GEJ201X 200 1/16W 1 R1035 DGGA104JA023 100K 1/16W 1 R1036 DGGA104JA023 10K 1/16W 1 R1037 DGGA104JA023 10K 1/16W 1 R1038 DGGA104JA023 10K 1/16W 1 R1039 DGGA103JA023 10K 1/16W 1 R1039 DGGA103JA023 10K 1/16W 1 R1039 DGGA103JA023 10K 1/16W 1 R1040 DGGA103JA023 10K 1/16W 1 R1041 DGGA103JA023 10K 1/16W 1 R1042 DGGA103JA023 10K 1/16W 1 R1043 DGGA103JA023 10K 1/16W 1 R1044 ERJ2GEJ201X 200 1/16W 1 R1045 ERJ2GEJ474X 470K 1/16W 1 R1046 ERJ2GEJ474X 470K 1/16W 1 R1047 ERJ2GEJ474X 470K 1/16W 1 R1048 ERJ2GEJ474X 470K 1/16W 1 R1049 ERJ2GEJ474X 470K 1/16W 1 R1049 ERJ2GEJ474X 470K 1/16W 1 R1051 ERJ2GEDGOX 0 1/16W 1 R1052 ERJ2GEJ474X 470K 1/16W 1 R1052 ERJ2GEJ474X 470K 1/16W 1 R1053 ERJ2GEOROX 0 1/16W 1 R1051 ERJ2GEOROX 0 1/16W 1 R1052 ERJ2GEJ474X 470K 1/16W 1 R1053 ERJ2GEOROX 0 1/16W 1 R1051 ERJ2GEOROX 0 1/16W 1 R1052 ERJ2GEDJ474X 470K 1/16W 1 R1053 ERJ2GEOROX 0 1/16W 1 R1054 ERJ2GEDGOX 0 1/16W 1 R1055 DGGA104JA023 10K 1/16W 1 R1056 DGGA104JA023 10K 1/16W 1 R1057 ERJ2GEOROX 0 1/16W 1 R1058 ERJ2GEOROX 0 1/16W 1 R1059 ERJ2GEOROX 0 1/16W 1 R1051 ERJ2GEOROX 0 1/16W 1 R1051 ERJ2GEOROX 0 1/16W 1 R1052 ERJ2GEOROX 0 1/16W 1 R1053 ERJ2GEOROX 0 1/16W 1 R1054 ERJ2GEOROX 0 1/16W 1 R1055 DGGA104JA023 10K 1/16W 1 R1056 DGGA104JA023 10K 1/16W 1 R1057 ERJ2GEOROX 0 1/16W 1 R1040 DGGA104JA023 10K 1/16W 1 R1040 DGGA104JA023 10K 1/16W 1 R1040 DGGA104JA023 10K 1/16W 1 R1051 ERJ2GEOROX 0 1/16W 1 R1052 ERJ2GEOROX 0 1/16W 1 R1054 ERJ2GEOROX 0 1/16W 1 R1055 DGGA104JA023 10K 1/16W 1 R1056 DGGA104JA023 10K 1/16W 1 R1040 DGGA104JA023 200 1/16W 1 R1041 DGGA104JA023 200 1/16W 1 R1044 DGGA22JA023 220 1/16W 1 R1044 DGGA22JA023 220 1/16W	1	R1018	ERJ2GEJ201X	200	1/16W	1	
R1022	1	R1019	ERJ2GEJ201X	200	1/16W	1	
R1025	1	R1021	ERJ2GEJ201X	200	1/16W	1	
R1026	1	R1022	ERJ2GEJ201X	200	1/16W	1	
R1027 ERJ2GEJ201X 200 1/16W 1 R1029 ERJ2GEJ201X 200 1/16W 1 R1030 ERJ2GEJ201X 200 1/16W 1 R1031 ERJ2GEJ201X 200 1/16W 1 R1032 ERJ2GEJ201X 200 1/16W 1 R1033 DOGBROJA008 0 1/10W 1 R1034 ERJ2GEDZ01X 200 1/16W 1 R1035 DOGA104JA023 100K 1/16W 1 R1036 DOGA104JA023 100K 1/16W 1 R1037 DOGA103JA023 100K 1/16W 1 R1038 DOGA103JA023 10K 1/16W 1 R1039 DOGA103JA023 10K 1/16W 1 R1040 DOGA103JA023 10K 1/16W 1 R1041 DOGA103JA023 10K 1/16W 1 R1041 DOGA103JA023 10K 1/16W 1 R1044 ERJ2GEJ201X 200 1/16W 1 R1045 ERJ2GEJ474X 470K 1/16W 1 R1046 ERJ2GEJ474X 470K 1/16W 1 R1048 ERJ2GEJ474X 470K 1/16W 1 R1050 ERJ2GEJ474X 470K 1/16W 1 R1051 ERJ2GEOROOX 0 1/16W 1 R1052 ERJ2GEOROOX 0 1/16W 1 R1053 ERJ2GEOROOX 0 1/16W 1 R1054 ERJ2GEJ274X 470K 1/16W 1 R1055 DOGA104JA023 10K 1/16W 1 R1056 ERJ2GEJ474X 470K 1/16W 1 R1057 ERJ2GEOROOX 0 1/16W 1 R1058 ERJ2GEDJ47AX 470K 1/16W 1 R1059 ERJ2GEJ74PAX 470K 1/16W 1 R1050 ERJ2GEJ74PAX 470K 1/16W 1 R1051 ERJ2GEOROOX 0 1/16W 1 R1053 ERJ2GEOROOX 0 1/16W 1 R1053 ERJ2GEOROOX 0 1/16W 1 R1054 ERJ2GEDJ47AX 470K 1/16W 1 R1055 DOGA104JA023 10K 1/16W 1 R1051 ERJ2GEOROOX 0 1/16W 1 R1053 ERJ2GEOROOX 0 1/16W 1 R1054 ERJ2GEOROOX 0 1/16W 1 R1055 DOGA104JA023 10K 1/16W 1 R1056 DOGA104JA023 10K 1/16W 1 R1057 ERJ2GEOROOX 0 1/16W 1 R1058 ERJ2GEOROOX 0 1/16W 1 R1059 DOGA104JA023 10K 1/16W 1 R1060 DOGA102JA023 1K 1/16W 1 R1078 ERJ2GEOROOX 0 1/16W 1 R1040 DOGA152JA023 1.5K 1/16W 1 R1040 DOGA152JA023 1.5K 1/16W 1 R1040 DOGA15JA023 1M 1/16W 1 R1401 DOGA152JA023 2Z 1/16W 1 R1401 DOGA22JJA023 2Z 1/16W 1 R1401 DOGA22JJA023 2Z 1/16W 1 R1414 DOGA22JJA023 2Z 1/16W 1 R1415 DOGA22JJA023 2Z 1/16W 1 R1416 DOGA22JJA023 2Z 1/16W 1 R1417 DOGA22JJA023 2Z 1/16W 1 R1448 DOGA22JJA023 2Z 1/16W 1 R1448 DOGA22JJA023 2Z 1/16W 1 R1449 DOGA22JJA023 2Z 1/16W 1	1	R1025	ERJ2GEJ201X	200	1/16W	1	
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R1401 D0GA152JA023 1.5K 1/16W 1 R1402 D0GA105JA023 1M 1/16W 1 R1405 D0GA473JA023 47K 1/16W 1 R1406 D0GA223JA023 22K 1/16W 1 R1407 D0GA473JA023 47K 1/16W 1 R1408 D0GA473JA023 47K 1/16W 1 R1411 D0GA221JA023 220 1/16W 1 R1413 D0GA221JA023 220 1/16W 1 R1414 D0GA221JA023 220 1/16W 1 R1415 D0GA221JA023 220 1/16W 1 R1416 D0GA221JA023 220 1/16W 1 R1430 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 470 1/16W 1 R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1	1	R1060	D0GA102JA023	1K	1/16W	1	
R1402 D0GA105JA023 1M 1/16W 1 R1405 D0GA473JA023 47K 1/16W 1 R1406 D0GA223JA023 22K 1/16W 1 R1407 D0GA473JA023 47K 1/16W 1 R1408 D0GA473JA023 47K 1/16W 1 R1411 D0GA221JA023 220 1/16W 1 R1413 D0GA221JA023 220 1/16W 1 R1414 D0GA221JA023 220 1/16W 1 R1415 D0GA221JA023 220 1/16W 1 R1416 D0GA221JA023 220 1/16W 1 R1430 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 100K 1/16W 1 R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1443 D0GA221JA023 220 1/16W 1 R1443 D0GA221JA023 220 1/16W 1 R1443 D0GA221JA023 220 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1	1	R1078	ERJ2GE0R00X	0	1/16W	1	
R1405 D0GA473JA023 47K 1/16W 1 R1406 D0GA223JA023 22K 1/16W 1 R1407 D0GA473JA023 47K 1/16W 1 R1408 D0GA473JA023 47K 1/16W 1 R1411 D0GA221JA023 220 1/16W 1 R1413 D0GA221JA023 220 1/16W 1 R1414 D0GA221JA023 220 1/16W 1 R1415 D0GA221JA023 220 1/16W 1 R1416 D0GA221JA023 220 1/16W 1 R1430 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 470 1/16W 1 R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1	1	R1401	D0GA152JA023	1.5K	1/16W	1	
R1406 D0GA223JA023 22K 1/16W 1 R1407 D0GA473JA023 47K 1/16W 1 R1408 D0GA473JA023 47K 1/16W 1 R1411 D0GA221JA023 220 1/16W 1 R1413 D0GA221JA023 220 1/16W 1 R1414 D0GA221JA023 220 1/16W 1 R1416 D0GA221JA023 220 1/16W 1 R1430 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 470 1/16W 1 R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1	1	R1402	D0GA105JA023		1/16W	1	
R1407 D0GA473JA023 47K 1/16W 1 R1408 D0GA473JA023 47K 1/16W 1 R1411 D0GA221JA023 220 1/16W 1 R1413 D0GA221JA023 220 1/16W 1 R1414 D0GA221JA023 220 1/16W 1 R1416 D0GA221JA023 220 1/16W 1 R1430 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 100K 1/16W 1 R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1	1	R1405	D0GA473JA023	47K	1/16W	1	
R1408 D0GA473JA023 47K 1/16W 1 R1411 D0GA221JA023 220 1/16W 1 R1413 D0GA221JA023 220 1/16W 1 R1414 D0GA221JA023 220 1/16W 1 R1416 D0GA221JA023 220 1/16W 1 R1430 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 100K 1/16W 1 R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1443 D0GA221JA023 220 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1	1	R1406	D0GA223JA023	22K	1/16W	1	
R1408 D0GA473JA023 47K 1/16W 1 R1411 D0GA221JA023 220 1/16W 1 R1413 D0GA221JA023 220 1/16W 1 R1414 D0GA221JA023 220 1/16W 1 R1416 D0GA221JA023 220 1/16W 1 R1430 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 100K 1/16W 1 R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1443 D0GA221JA023 220 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1	1	R1407	D0GA473JA023	47K	1/16W	1	
R1413 D0GA221JA023 220 1/16W 1 R1414 D0GA221JA023 220 1/16W 1 R1416 D0GA221JA023 220 1/16W 1 R1430 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 100K 1/16W 1 R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1	1	R1408	D0GA473JA023	47K		1	
R1413 D0GA221JA023 220 1/16W 1 R1414 D0GA221JA023 220 1/16W 1 R1416 D0GA221JA023 220 1/16W 1 R1430 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 100K 1/16W 1 R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1					1/16W	1	
R1414 D0GA221JA023 220 1/16W 1 R1416 D0GA221JA023 220 1/16W 1 R1430 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 100K 1/16W 1 R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1						1	
R1416 D0GA221JA023 220 1/16W 1 R1430 D0GA104JA023 100K 1/16W 1 R1431 D0GA104JA023 100K 1/16W 1 R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1	1	R1414	D0GA221JA023	220	1/16W	1	
R1431 D0GA104JA023 100K 1/16W 1 R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1	1	R1416	D0GA221JA023	220		1	
R1431 D0GA104JA023 100K 1/16W 1 R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1					1/16W	1	
R1432 D0GA471JA023 470 1/16W 1 R1433 D0GA471JA023 470 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1						1	
R1433 D0GA471JA023 470 1/16W 1 R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1						1	
R1444 D0GA221JA023 220 1/16W 1 R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1						1	
R1445 D0GA221JA023 220 1/16W 1 R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1							
R1446 D0GA221JA023 220 1/16W 1 R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1						1	
R1447 D0GA221JA023 220 1/16W 1 R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1							
R1448 D0GA221JA023 220 1/16W 1 R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1							
R1449 D0GA221JA023 220 1/16W 1 R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1						1	
R1508 D0GA103JA023 10K 1/16W 1 R1510 D0GA103JA023 10K 1/16W 1							
R1510 D0GA103JA023 10K 1/16W 1							
						_	
R1513 D0GA102JA023 1K 1/16W 1							
R1516 ERJ2GEJ202X 2K 1/16W 1							
R1520 D0GA123JA023 12K 1/16W 1							
R1525 D0GA123JA023 12K 1/16W 1							
R1529 D0GA1230A023 12K 1/16W 1							
R1552 ERJ2GE0R00X 0 1/16W 1				_			
R1552 ER02GE0R00X 0 1/16W 1 R1554 ER02GE0R00X 0 1/16W 1				_		_	

afety	Ref. No.	Part No.		Name & ription	QTY	Remarks
	R1555	ERJ2GE0R00X	0	1/16W	1	
	R1558	ERJ2GE0R00X	0	1/16W	1	
	R1559	D0GA102JA023	1K	1/16W	1	
	R1560	D0GA102JA023	1K	1/16W	1	
	R1801	ERJ2RHD683X	68K	1/16W	1	
	R1802	ERJ2RHD223X	22K	1/16W	1	
	R1803	D1BDR033A111	0.033	1/3W	1	
	R1804	DOGA100JA023	10	1/16W	1	
	R1805	ERJ2RKD274X	270K	1/16W	1	
	R1806	ERJ2RHD683X	68K	1/16W	1	
	R1807	D0GDR00JA017	0	1/8W	1	
	R1808	D0GA104JA023	100K	1/16W	1	
	R1809	D0GA151JA023	150	1/16W	1	
	R1810	D0GA104JA023	100K	1/16W	1	
	R1812	ERJ2GEJ182X	1.8K	1/16W	1	
	R1813	ERJ2GEJ392X	3.9K	1/16W	1	
	R1814	ERJ2GEJ182X	1.8K	1/16W	1	
	R1817	ERJ2RHD103X	10K	1/16W	1	
	R1818	ERJ2GE0R00X	0	1/16W	1	
	R1819	D0GA473JA023	47K	1/16W	1	
	R1823	D0GB473JA008	47K	1/10W	1	
	R1824	ERJ2GEJ392X	3.9K	1/16W	1	
	R1825	ERJ2GEJ474X	470K	1/16W	1	
	R1826	D0GA102JA023	1K	1/16W	1	
	R1827	ERJ2RHD681X	680	1/16W	1	
	R1828	D0GA100JA023	10	1/16W	1	
	R1829	D0GA100JA023	10	1/16W	1	
	R1830	D0GA560JA023	56	1/16W	1	
	R1831	ERJ2RHD153X	15K	1/16W	1	
	R1833	ERJ2RHD102X	1K	1/16W	1	
	R1834	D0GZR10JA027	0.1	1/2W	1	
	R1835	ERJ2RHD102X	1K	1/16W	1	
					1	
	R1836	ERJ2RHD104X	100K	1/16W		
	R1837	ERJ2RHD104X	100K	1/16W	1	
	R1838	D0GA103JA023	10K	1/16W	1	
	R1839	ERJ2GEJ474X	470K	1/16W	1	
	R1851	D0GA123JA023	12K	1/16W	1	
	R1852	ERJ2GEJ154X	150K	1/16W	1	
	R1853	ERJ2GE0R00X	0	1/16W	1	
	R1854	D0GA123JA023	12K	1/16W	1	
	R1855	ERJ2RKD334X	330K	1/16W	1	
	R1856	ERJ2RHD333X	33K	1/16W	1	
	R1857	ERJ2RHD273X	27K	1/16W	1	
	R1858	D0GA104JA023	100K	1/16W	1	
	R1859	ERJ2RKD184X	180K	1/16W	1	
			0		1	
	R1860	ERJ2GE0R00X		1/16W		
	R1861	ERJ2RHD563X	56K	1/16W	1	
	R1862	ERJ2RKD154X	150K	1/16W	1	
	R1863	ERJ2GE0R00X	0	1/16W	1	
	R1864	ERJ2RHD473X	47K	1/16W	1	
	R1865	ERJ2RKD1403X	140K	1/16W	1	
	R1866	ERJ2RKD2703X	270K	1/16W	1	
	R1868	ERJ2RHD152X	1.5K	1/16W	1	
	R1869	ERJ2GEJ474X	470K	1/16W	1	
	R1871	D0GDR00JA017	0	1/8W	1	
	R1872	D0GDR00JA017	0	1/8W	1	1
	R1873	DOGDROOJA017	0	1/8W	1	
	R1874	DOGDROOJA017	0	1/8W	1	1
	R1876	D0GA273JA023	27K	1/16W	1	
	R1878	ERJ2GEJ474X	470K	1/16W	1	
	R1879	D0GA103JA023	10K	1/16W	1	
	R1882	ERJ2RHD183X	18K	1/16W	1	
	R1884	ERJ2GE0R00X	0	1/16W	1	
	R1887	D0GBR00JA008	0	1/10W	1	
	R1890	ERJ2RHD562X	5.6K	1/16W	1	
	R1891	D0GDR00JA017	0	1/8W	1	
	R1892	D0GDR00JA017	0	1/8W	1	1
	R1893	DOGDROOJA017	0	1/8W	1	
	R1894	DOGDROOJA017	0	1/8W	1	
			_			
	R1895	DOGDROOJA017	0	1/8W	1	
	R1896	ERJ2RHD102X	1K	1/16W	1	
	101007	ERJ2GE0R00X	0	1/16W	1	l
	R1897	EROZGEOROOX				

Sarety	Ref. No.	Part No.	Part Name & Description	QTY	Remarks
	R1899	ERJ2GEJ474X	470K 1/16W	1	
	R1903	ERJ2GE0R00X	0 1/16W	1	
	R1921	D0GA103JA023	10K 1/16W	1	
	R1923	D0GA223JA023	22K 1/16W	1	
	R1924	D0GA123JA023	12K 1/16W	1	
			CAPACITORS		
	C1001	F1G1A1040006	0.1uF 10V	1	
	C1001	F1G1A1040006	0.1uF 10V	1	
	C1003	F1G1A1040006	0.1uF 10V	1	
	C1004	F1G1A1040006	0.1uF 10V	1	
	C1005	F1H0J4750005	4.7uF 6.3V	1	
	C1006	F1G1A1040006	0.1uF 10V	1	
	C1007	F1G1A1040006	0.1uF 10V	1	
	C1008	F1G1A1040006	0.1uF 10V	1	
	C1009	F1G1A1040006	0.1uF 10V	1	
	C1010	F1G1A1040006	0.1uF 10V	1	
	C1011 C1012	F1G1A1040006 F1G1A1040006	0.1uF 10V 0.1uF 10V	1	
	C1012	F1G1A1040006	0.1uF 10V	1	
	C1014	F1G1A1040006	0.1uF 10V	1	
	C1401	F1H0J1060006	10uF 6.3V	1	
	C1402	F1G1E102A086	1000pF 25V	1	
	C1403	F1H0J1060006	10uF 6.3V	1	
	C1404	F1G1A1040006	0.1uF 10V	1	
	C1405	F1H0J1060006	10uF 6.3V	1	
	C1406	F1G1E102A086	1000pF 25V	1	
	C1407	F1H0J1060006	10uF 6.3V	1	
	C1408	F1G0J1050007	1uF 6.3V	1	
	C1409	F1K1E105A090 F1K1E105A090	1uF 25V 1uF 25V	1	
	C1411	F1K1E105A090	1uF 25V	1	
	C1412	F1K1E105A090	1uF 25V	1	
	C1413	F1G1H100A834	10pF 50V	1	
	C1414	F1G1H150A541	15pF 50V	1	
	C1415	F1G1C104A077	0.1uF 16V	1	
	C1416	F1G1C104A077	0.1uF 16V	1	
	C1417	F1G1E2240002	0.22uF 25V	1	
	C1418	F1G1C104A077	0.1uF 16V	1	
	C1419	F1G1C104A077	0.1uF 16V	1	
	C1420	F1G1E2240002 F1G1E102A086	0.22uF 25V 1000pF 25V	1	
	C1423	F1G1E102A086	1000pF 25V 1000pF 25V	1	
	C1425	F1G1H4700003	47pF 50V	1	
	C1426	F1G1H4700003	47pF 50V	1	
	C1427	F1G1A1040006	0.1uF 10V	1	
	C1428	F1K1E1060008	10uF 25V	1	
	C1429	F1K1E1060008	10uF 25V	1	
	C1430	F1G0J1050007	1uF 6.3V	1	
	C1431	F1G0J1050007	1uF 6.3V	1	
	C1432	F1G0J1050007	1uF 6.3V	1	
	C1433	F1G0J1050007	1uF 6.3V	1	
	C1460 C1461	F1G1E102A086 F1G1E102A086	1000pF 25V 1000pF 25V	1	
	C1461	F1G1E102A086	1000pF 25V	1	
	C1501	F1G1A1040006	0.1uF 10V	1	
	C1502	F1H0J1060006	10uF 6.3V	1	
	C1503	F1G1A1040006	0.1uF 10V	1	
	C1504	F1H0J1060006	10uF 6.3V	1	
	C1505	F1G1A1040006	0.1uF 10V	1	
	C1506	F1H0J1060006	10uF 6.3V	1	
	C1513	F1G1H221A541	220pF 50V	1	ļ
	C1516	F1H0J4750004	4.7uF 6.3V	1	
	C1517	F1H0J4750004	4.7uF 6.3V	1	
	C1520 C1521	F1G0J1050007 F1G0J1050007	1uF 6.3V 1uF 6.3V	1	
	C1525	F1G1H1020008	1000pF 50V	1	
	C1534	F1G0J1050007	1uF 6.3V	1	
	C1535	F1G0J1050007	1uF 6.3V	1	
	C1557	F1G1H1020008	1000pF 50V	1	
	C1558	F1G1H221A541	220pF 50V	1	
			220pF 50V	1	

Safety	Ref. No.	Part No.	Descr	Name & iption	QTY	Remarks
	C1801	F1G1C104A077	0.1uF	16V	1	
	C1802	F1G1A1040006	0.1uF	10V	1	
	C1803	F1G1C104A077	0.1uF	16V	1	
	C1804	F1G1C104A077	0.1uF	16V	1	
	C1805	F1J1A106A043	10uF	10V	1	
	C1806	F1H1E105A116	1uF	25V	1	
	C1807	F1G1E473A091		25V	1	
	C1808	F1G1H101A541	100pF	50V	1	
	C1809	F1G1E1040001	0.1uF	25V	1	
	C1810	F1G1E1040001	0.1uF	25V	1	
	C1811	F1G1E1040001	0.1uF	25V	1	
	C1812	F1J1A106A043	10uF	10V	1	
	C1813	F1J1A106A043	10uF	10V	1	
	C1814	F1J1A106A043	10uF	10V	1	
	C1815	F1H1E105A116	1uF	25V	1	
	C1816	F1G1A1040006	0.1uF	10V	1	
	C1817	F1K1E1060008	10uF	25V	1	
	C1818	F1G1A1040006	0.1uF	10V	1	
	C1819	F1G1E222A086	2200pF	25V	1	
	C1821	F1G1C1030008	0.01uF	16V	1	
	C1822	F1G0J1050007	1uF 6.3	BV	1	
	C1823	F1G0J1050007	1uF	6.3V	1	
	C1830	F1K1E1060008	10uF	25V	1	
	C1851	F1J1C1060001	10uF	16V	1	
	C1852	F1J1C1060001	10uF	16V	1	
	C1853	F1H1E104A029	0.1uF	25V	1	
	C1854	F1H1E104A029	0.1uF	25V	1	
	C1855	F1G1E562A086	5600pF	25V	1	
	C1856	F1G1H4700003	47pF	50V	1	
	C1857	F1J1A1060011	10uF	10V	1	
	C1858	F1J1A1060011	10uF	10V	1	
	C1859	F1J1A1060011	10uF	10V	1	
	C1860	F1H1A105A036	1uF	10V	1	
	C1861	F1K1E1060008	10uF	25V	1	
	C1862	F1K1E1060008	10uF	25V	1	
	C1864	F1H1H332A219	3300pF	50V	1	
	C1865	F1H1H472A219	4700pF	50V	1	
	C1866	F1J1A1060011	10uF	10V	1	
	C1867	F1J1A1060011	10uF	10V	1	
	C1868	F1J1A1060011	10uF	10V	1	
	C1869	F1J1A1060011	10uF	10V	1	
	C1870	F1J1C1060001	10uF	16V	1	
	C1871	F1H1E104A029	0.1uF	25V	1	
	C1872	F1H0J1060006	10uF	6.3V	1	
	C1873	F1H0J1060006	10uF	6.3V	1	
	C1875	F1J1A106A043	10uF	10V	1	
	C1878	F1J1A106A043	10uF	10V	1	
	C1880	F1J1A1060011	10uF	10V	1	
	C1881	F1J1A1060011	10uF	10V	1	
	C1882	F1J1A1060011	10uF	10V	1	
	C1883	F1G1C104A077	0.1uF	16V	1	
	C1885	F1G1C104A077	0.1uF	16V	1	
	C1886	F1J1A1060011	10uF	10V	1	
	C1887	F1J1A1060011	10uF	10V	1	
	C1890	F1G1H181A551	180pF	50V	1	
	C1891	F1H1E104A029	0.1uF	25V	1	
	C1894	F1H1E104A029	0.1uF	25V	1	
	C1895	F1J1E105A171	1uF	25V	1	
	C1901	F1G1E472A086	4700pF	25V	1	
	C1902	F1G1E472A086	4700pF	25V	1	
	C1903	F1H1C104A178	0.1uF	16V	1	
	C1904	F1J1A106A043	10uF	10V	1	
	C1905	F1J1A106A043	10uF	10V	1	
	C1910	F1G0J1050007	1uF	6.3V	1	
	C1921	F1H1H101B052	100pF	50V	1	
	C1922	F1H1H101B052	100pF	50V	1	
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