

MULTIMEDIA SPEAKER NX-U10

SERVICE MANUAL

IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

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

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

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

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

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

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YAMAHA

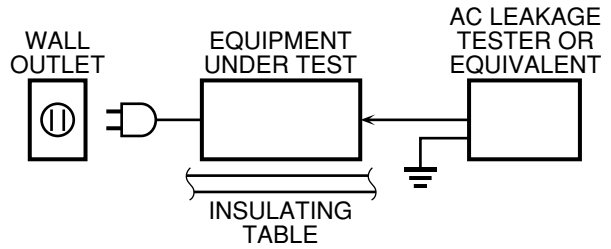
YAMAHA CORPORATION
P.O.Box 1, Hamamatsu, Japan

07.01

NX-U10

■ TO SERVICE PERSONNEL

1. Critical Components Information
Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
2. Leakage Current Measurement (For 120V Models Only)
When service has been completed, it is imperative to verify that all exposed conductive surfaces are properly insulated from supply circuits.
 - Meter impedance should be equivalent to 1500 ohms shunted by 0.15μF.



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

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the manufacturing process except soldering of the P.C.B. ass'y contains LEAD. In addition, other electrical/electronic and /or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

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

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

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

About lead free solder / 無鉛ハンダについて

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

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

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

Caution:

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

本機に搭載されているすべての基板およびハンダ付けによる接合部は無鉛ハンダでハンダ付けされています。

無鉛ハンダにはいくつかの種類がありますが、修理時には下記のような無鉛ハンダの使用を推奨します。

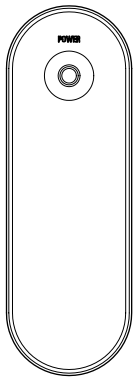
- ・ Sn+Ag+Cu(錫+銀+銅)
- ・ Sn+Cu(錫+銅)
- ・ Sn+Zn+Bi(錫+亜鉛+ビスマス)

注意：

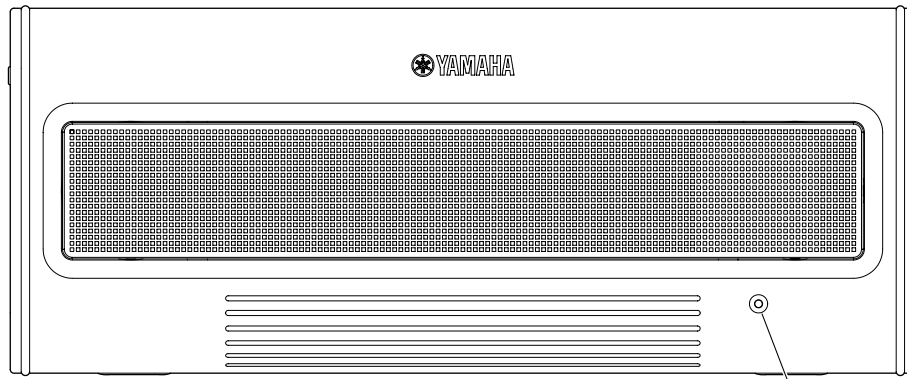
無鉛ハンダの融点温度は通常の鉛入りハンダに比べ30～40°C程度高くなっていますので、それぞれのハンダに合ったハンダごてをご使用ください。

FRONT PANEL

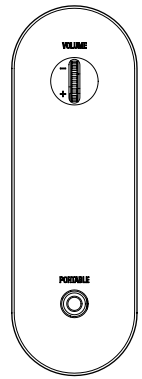
L side view



Front view



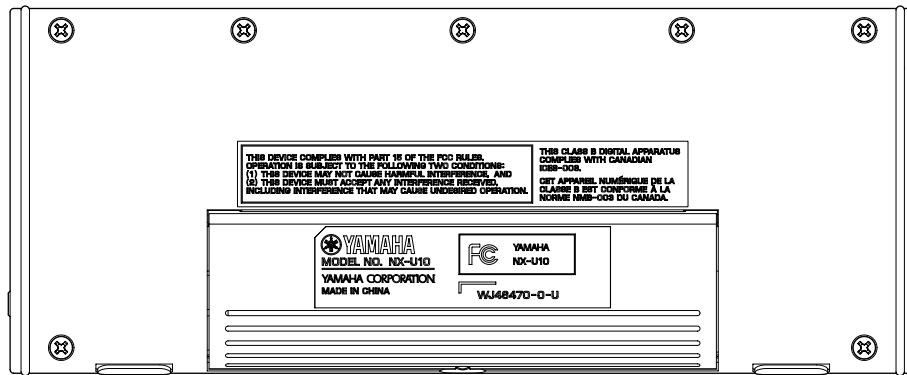
R side view



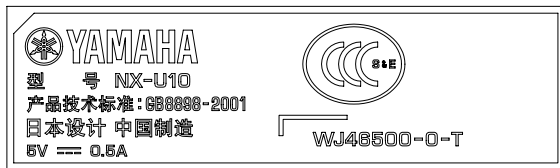
Status indicator LED

REAR PANELS

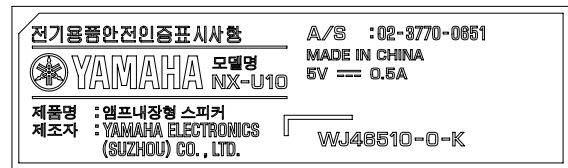
U model



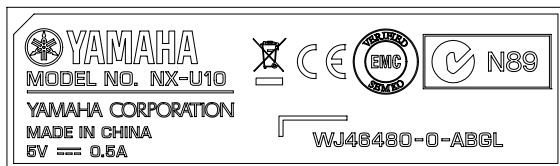
T model



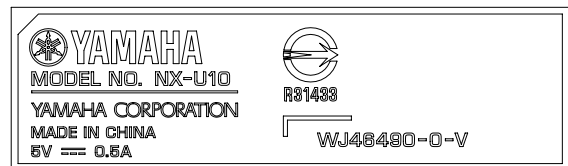
K model



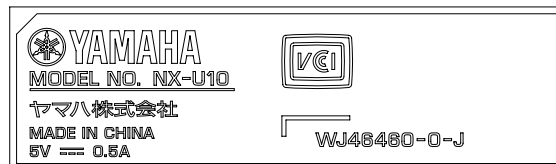
A, B, G, L models



V model



J model



■ SPECIFICATIONS / 参考仕様

■ SPEAKER Section / スピーカー部

Type / 型式 YAMAHA SR-BASS technology /
YAMAHA SR-BASS方式

Driver / スピーカーユニット
..... 38 mm Titanium-cone full-range driver x 2,
Magnetic shielding type /
38 mmチタン振動板フルレンジ×2、防磁型

Impedance / インピーダンス 6 ohms

■ AMPLIFIER Section / アンプ部

Input / 入力端子
PORTABLE input 3.5 mm stereo mini jack /
3.5 mmステレオミニジャック
USB input USB terminal (mini B) /
USB端子(ミニB)

Dynamic Power / ダイナミックパワー
1 kHz, 6 ohms 6 W x 2

Maximum Instantaneous Power / 瞬間最大パワー
1 kHz, 6 ohms, 10 % THD 10 W x 2
* Refers to the power that can be output for 100 ms continuously. /
連続して100 ms出力可能なパワーです。

Input Sensitivity/Input Impedance / 入力感度/入力インピーダンス
PORTABLE input 300 mV / 10 k-ohms

Maximum Input Signal / 最大許容入力
PORTABLE input 2.0 V

Frequency Response / 周波数特性 90 Hz to 20 kHz

■ USB Section / USB部

PC / 対応機種
PC equipped with a USB port on which a Windows or Macintosh
operating system is installed. /
USBポートを備えたWindows PCおよびMacintosh

OS
Windows PC Windows XP, 2000, Me, 98SE
Macintosh Mac OS 9.1 or later, Mac OS X 10.0 or later /
Mac OS 9.1以降、Mac OS X 10.1以降

■ GENERAL / 総合

Power Supply / 電源電圧
USB bus power / USBバスパワー 5 V / 500 mA
USB/AC adapter / USB/ACアダプター
Input AC100 to 240V, 50/60 Hz
Output 5 V / 500 mA

Battery / 乾電池 AAA/R03/UM-4 x 4 / 単4乾電池×4
* Battery life / 乾電池の寿命
3 hours as alkaline (Output : 10 mW + 10 mW) /
アルカリ乾電池使用時約3時間(10 mW+10 mW出力時)

Power Consumption / 消費電力
When the USB/AC adaptor is used / USB/ACアダプター使用時
Less than 5 W / 5 W未満

Dimensions (W x H x D) / 外形寸法(幅×高さ×奥行き)
248 x 100 x 33 mm (9-3/4" x 3-15/16" x 1-5/16")

Weight / 質量 500 g (1 lb. 2 oz.)

Finish / 仕上げ Silver color

Accessories / 付属品
USB/AC adapter x 1, Battery holder x 1, USB cable (1 m, A-miniB)
x 1, 3.5 mm stereo mini plug cable (0.5 m) x 1, Carrying case x 1,
Nonskid pad (2pcs/set) x 1

* Specifications are subject to change without notice due to product improvements.

※ 参考仕様および外観は予告なく変更されることがあります。

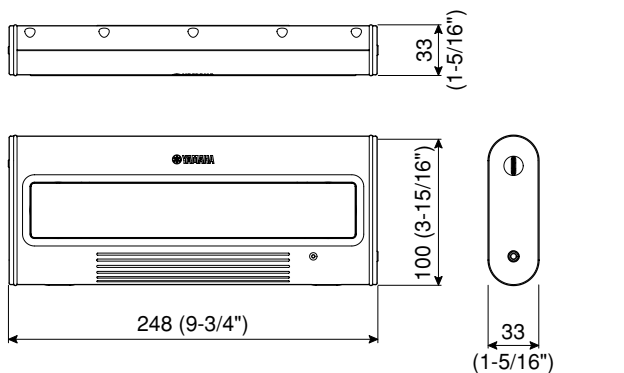
U U.S.A. and Canada models
T Chinese model K Korean model
A Australian model B British model
G European model L Singapore model
V Taiwan model J Japanese model

SR-Bass "Swing Radiator Bass™" is a trademark of YAMAHA CORPORATION.
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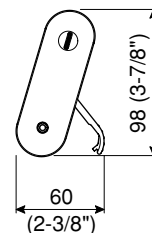
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• DIMENSIONS



When using the stand.



Unit: mm (inch)
単位: mm (インチ)

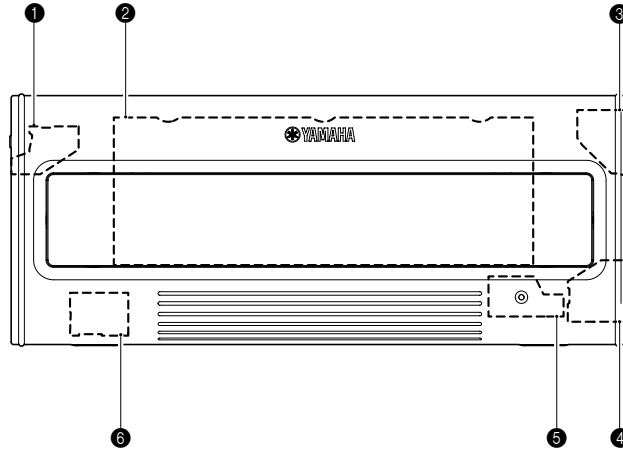
• **About the Status Indicator (LED) / ステータスインジケータ (LED) について**

The status indicator turns on or flashes to indicate the status of this unit.

本機の状態を表示するために、ステータスインジケータが点灯または点滅します。

LED status / ステータスインジケータ	The current status of this unit / 本機の状態
On / 点灯	This unit is on. / 電源がオンの状態。
Off / 消灯	This unit is off, or power supply is not connected. / 電源がオフ、または電源が接続されていない状態。
Flashing / 点滅	Limiter control has been activated due to excessive input. (Turn down the volume level until the LED stops flashing.) / 大音量の入力により、リミッターが作動している状態。(点灯状態に戻るまでボリュームを下げてください。)

■ **INTERNAL VIEW**



- ① MAIN (3) P.C.B.
- ② MAIN (1) P.C.B.
- ③ MAIN (5) P.C.B.
- ④ MAIN (4) P.C.B.
- ⑤ MAIN (6) P.C.B.
- ⑥ MAIN (2) P.C.B.

DISASSEMBLY PROCEDURES / 分解手順

Note)

- After disassembling the unit or replacing any part, be sure to input a signal (20 Hz to 20 kHz) from the PORTABLE terminal to make sure that the unit is free from chattering or abnormal sound.
- The double coated adhesive tape and bush once removed cannot be reused. Be sure to use a new double coated adhesive tape and bush for replacement.

注意)

- 分解または部品交換後には、必ずPORTABLE端子から信号(20Hz-20kHz)を入力し、本機のビリ付きまたは異音等がないか確認してください。
- 一度取り外した両面粘着テープおよびブッシュは、使用できません。必ず、新しい両面粘着テープおよびブッシュに交換してください。

1. Removal of Driver L/R

- Remove 2 rings. (Fig. 1)
- Remove side cover L. (Fig. 1)
- Remove side cover R. (Fig. 1)
- Remove 7 screws (①). (Fig. 1)
- Open the rear cover, remove 3 screws (②). (Fig. 2)
- Remove CB10. (Fig. 1)
- Remove front panel unit. (Fig. 1)
- Remove screw (③) and 4 screws (④). (Fig. 1)
- Remove CB3 (driver L) and CB2 (driver R). (Fig. 1)
- Remove the driver L/R. (Fig. 1)

1. スピーカーユニットL/Rの外し方

- リング2個を外します。(Fig. 1)
- サイドカバーLを外します。(Fig. 1)
- サイドカバーRを外します。(Fig. 1)
- ①のネジ7本を外します。(Fig. 1)
- リアカバーを開けて、②のネジ3本を外します。(Fig. 2)
- CB10を外します。(Fig. 1)
- フロントパネルユニットを外します。(Fig. 1)
- ③のネジ1本、④のネジ4本を外します。(Fig. 1)
- CB3(スピーカーユニットL)、CB2(スピーカーユニットR)を外します。(Fig. 1)
- スピーカーユニットL/Rを取り外します。(Fig. 1)

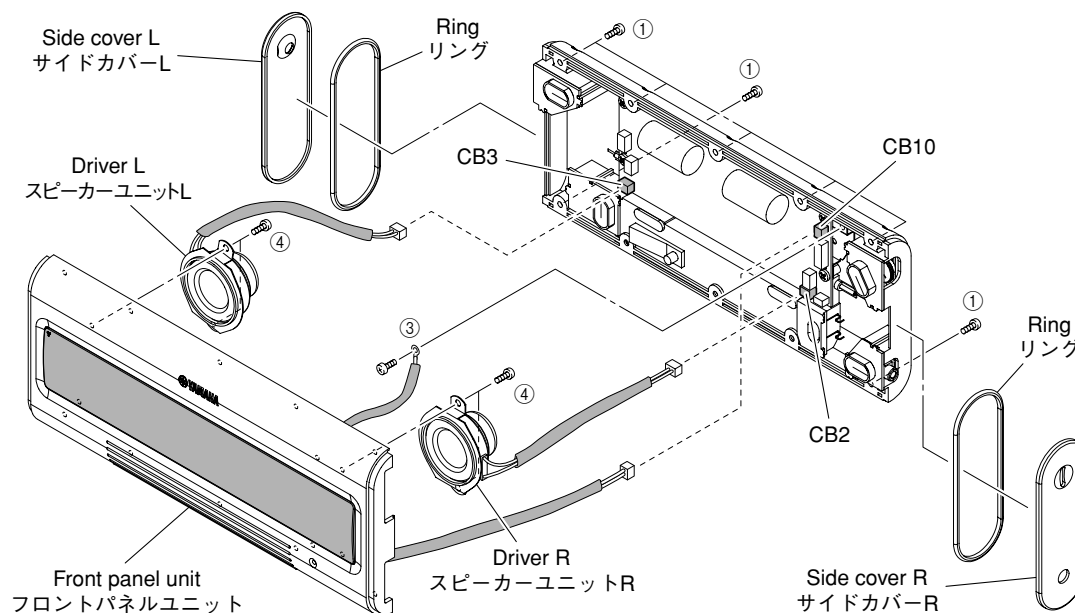


Fig. 1

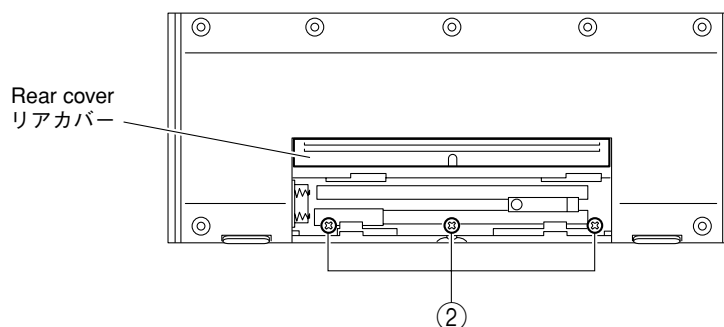


Fig. 2

2. Removal of MAIN (1) P.C.B.

- a. Remove 4 screws (⑤). (Fig. 3)
- b. Remove CB5, CB6, CB7, CB8 and CB9. (Fig. 3)
- c. Remove MAIN (1) P.C.B. (Fig. 3)

2. MAIN(1)P.C.B.の外し方

- a. ⑤のネジ4本を外します。(Fig. 3)
- b. CB5、CB6、CB7、CB8、CB9を外します。(Fig. 3)
- c. MAIN(1)P.C.B.を取り外します。(Fig. 3)

3. Removal of MAIN (2), (3), (4) and (5) P.C.B.s

- a. Remove 4 bush. (Fig. 3)
- b. Remove cover shield (2), (3), (4) and (5). (Fig. 3)
- c. Remove 4 screws (⑥). (Fig. 3)
- d. Remove the MAIN (2), (3), (4) and (5) P.C.B.s. (Fig. 3)

3. MAIN(2)、(3)、(4)、(5)P.C.B.の外し方

- a. ブッシュ4個を外します。(Fig. 3)
- b. カバーシールド (2)、(3)、(4)、(5)を外します。(Fig. 3)
- c. ⑥のネジ4本を外します。(Fig. 3)
- d. MAIN(2)、(3)、(4)、(5)P.C.B.を取り外します。(Fig. 3)

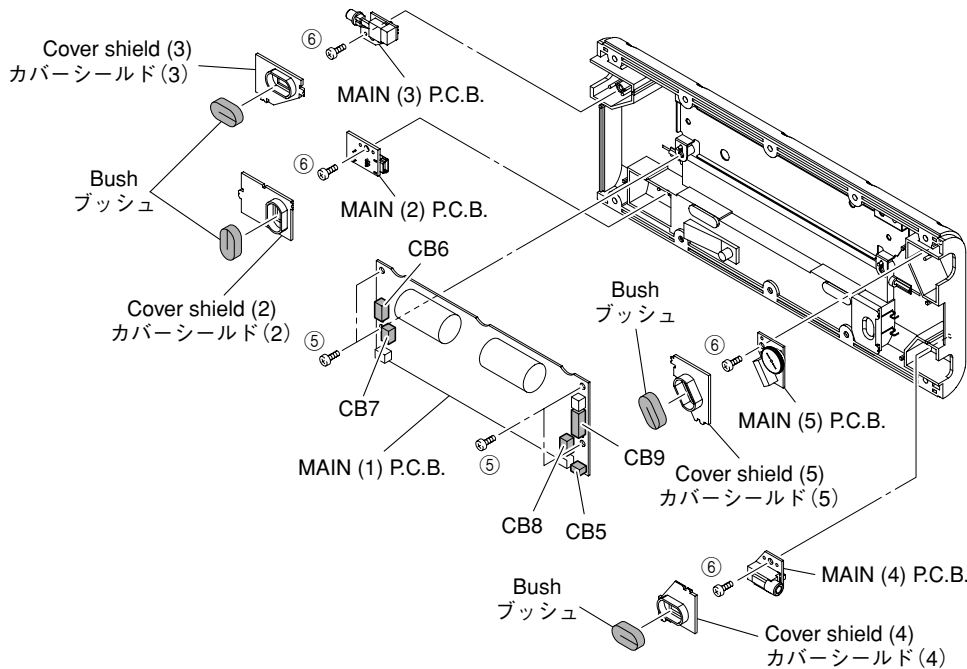


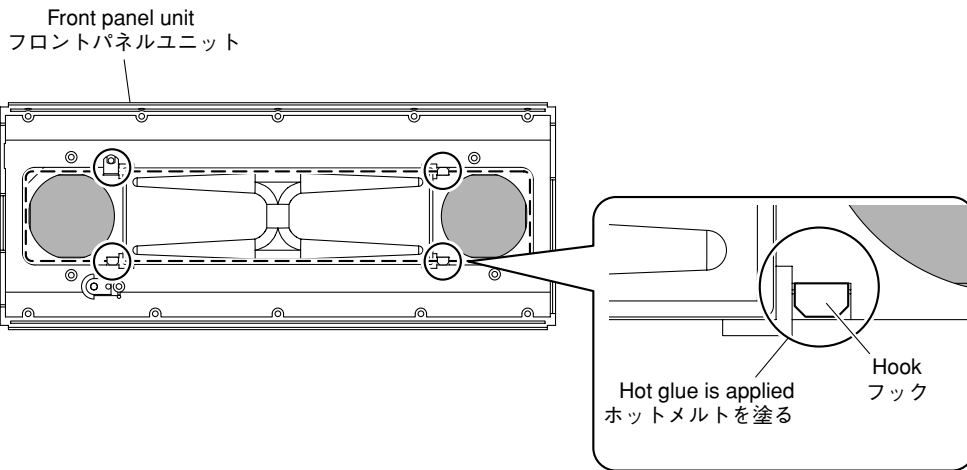
Fig. 3

• Caution when replacing the front panel unit

The new front panel unit has no hot glue applied.
Be sure to apply hot glue to the new front panel unit at 4 locations as shown below before using it.

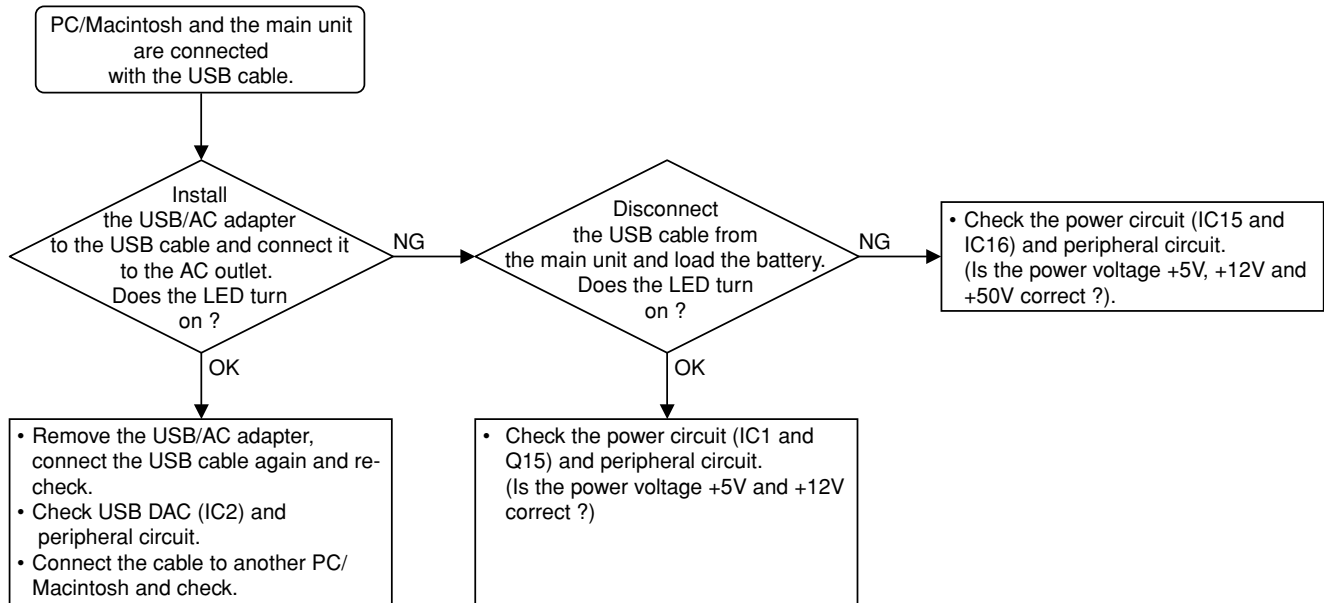
• フロントパネルユニット交換時の注意

新しいフロントパネルユニットには、ホットメルトが塗られていません。
必ず、新しいフロントパネルユニットの下記4箇所ホットメルトを塗ってから使用してください。

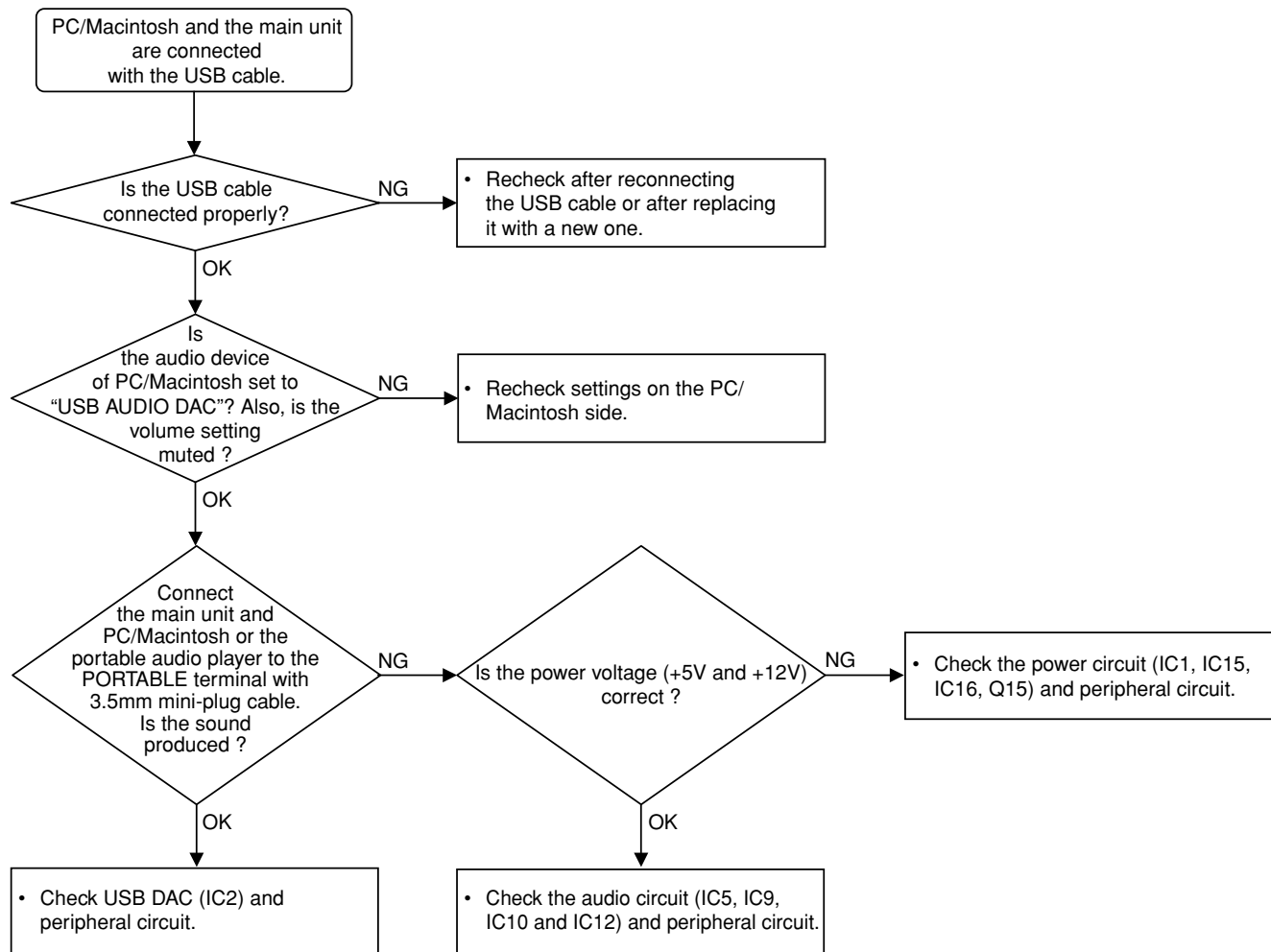


■ TROUBLESHOOTING

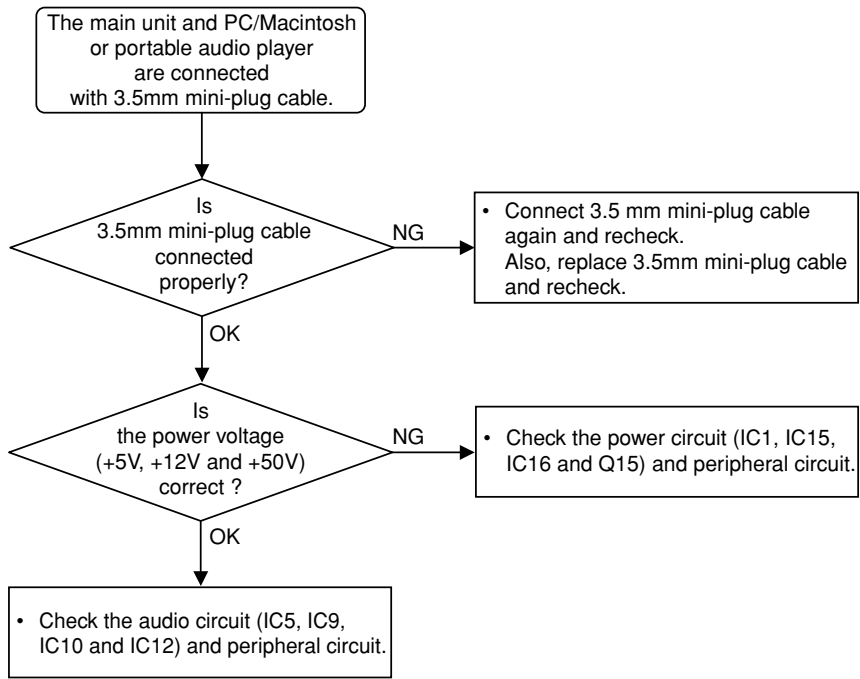
- When the status indicator LED does not light up when "POWER" key is pressed.



- When no sound is produced.

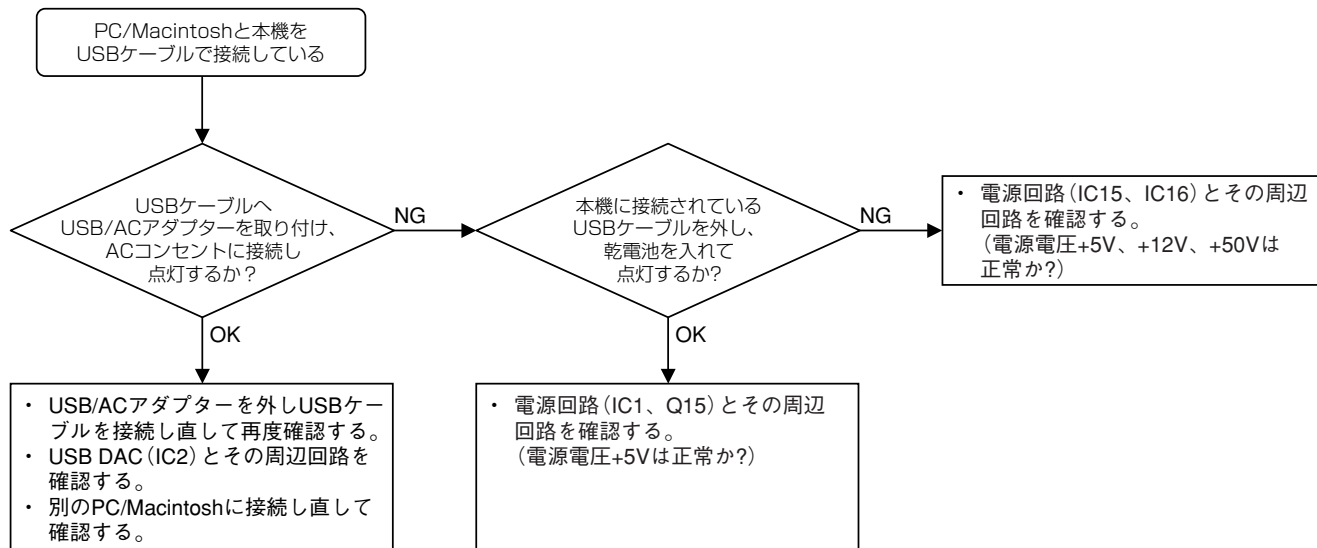


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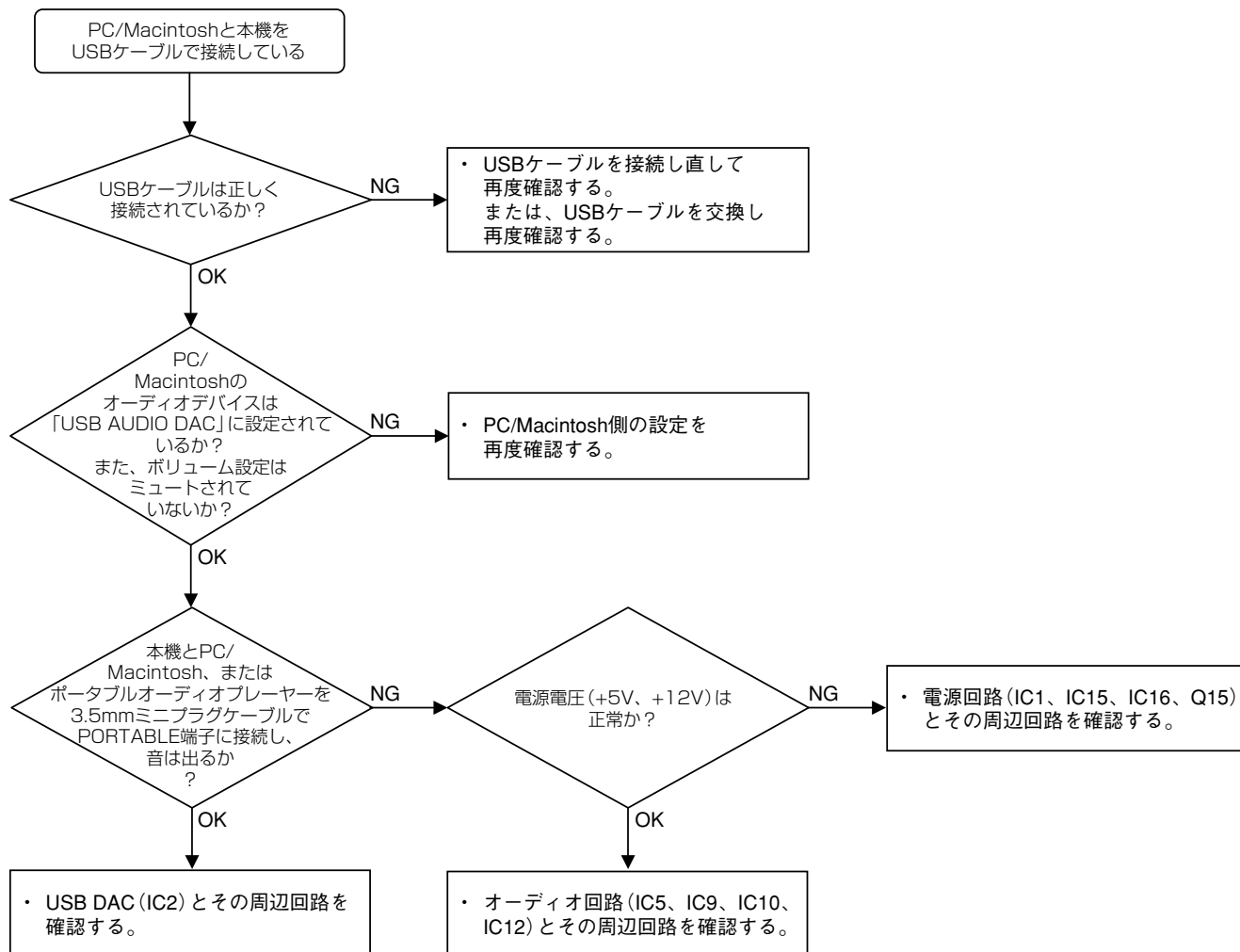


■ トラブルシューティング

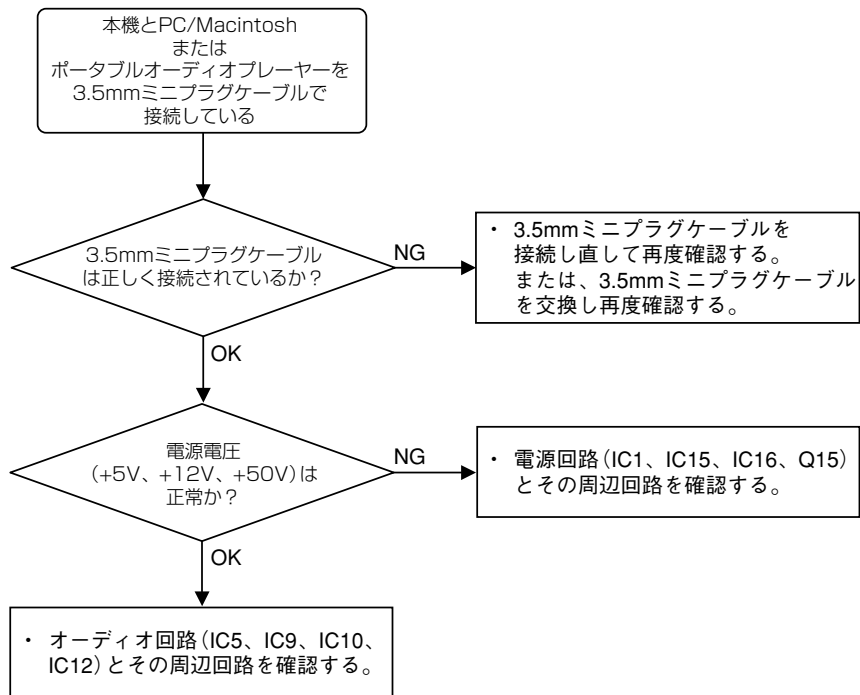
- ・ “POWER” キーを押してステータスインジケータLEDが点灯しない場合



- ・ 音が出ない場合

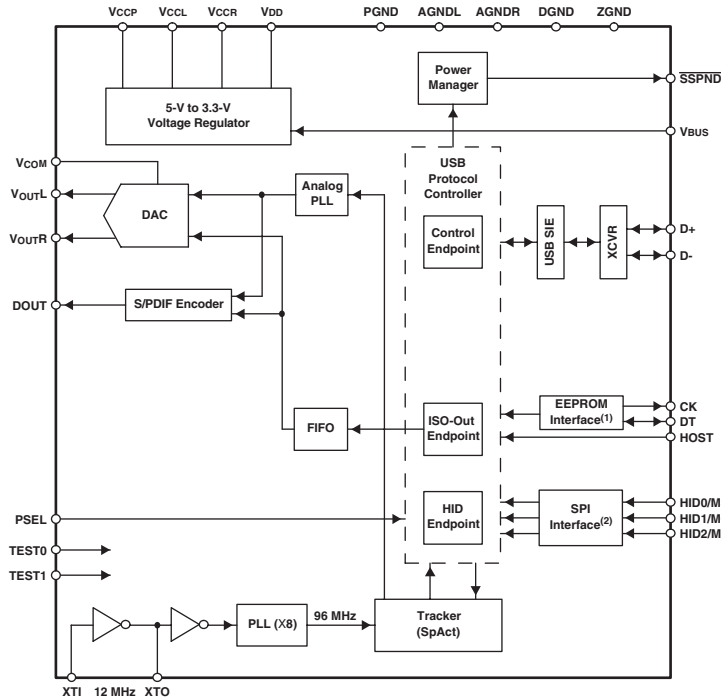


NX-U10



IC DATA

IC2: PCM2704DBR (MAIN P.C.B.)
Stereo audio DAC with USB interface

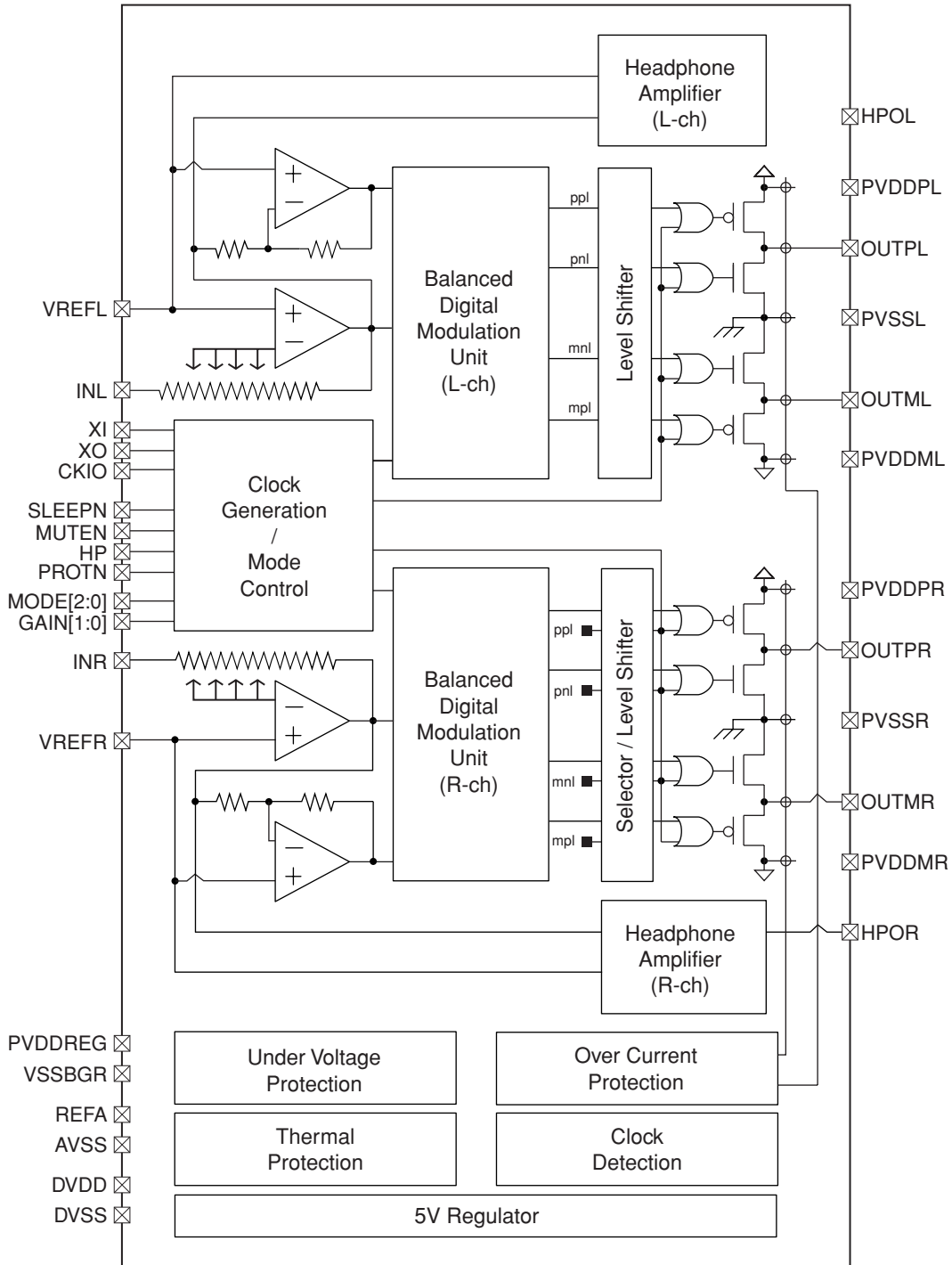


(1)AppliestoPCM2704DB
(2)AppliestoPCM2705DB

No.	Terminal Name	I/O	Function
1	XTO	O	Crystal oscillator output.
2	CK	O	Clock output for external ROM (PCM2704). Must be left open (PCM2705).
3	DT	I/O	Data input/output for external ROM (PCM 2704). Must be left open with pull-up resistor (PCM2705). (1)
4	PSEL	I	Power source select (LOW: self-power, HIGH: bus-power). (1)
5	DOUT	O	S/PDIF output.
6	DGND	-	Digital ground.
7	VDD	-	Digital power supply. (4)
8	D-	I/O	USB differential input/output minus. (1)
9	D+	I/O	USB differential input/output plus. (1)
10	VBUS	-	Connect to USB power (Vbus) for bus-powered operation. Connect to VDD for self-powered operation.
11	ZGND	-	Ground for internal regulator.
12	AGNDL	-	Analog ground for headphone amplifier of L-channel.
13	VCCL	-	Analog power supply for headphone amplifier of L-channel. (4)
14	VOUTL	O	DAC analog output for L-channel.
15	VOUTR	O	DAC analog output for R-channel.
16	VCCR	-	Analog power supply for headphone amplifier of R-channel. (4)
17	AGNDR	-	Analog ground for headphone amplifier of R-channel.
18	VCOM	-	Common voltage for DAC (VCCP/2). Connect decoupling capacitor to PGND.
19	PGND	-	Analog ground for DAC, OSC, and PLL.
20	VCCP	-	Analog power supply for DAC, OSC, and PLL. (4)
21	HOST	I	Host detection during self-powered operation (connect to Vbus). Max power select during bus-powered operation (LOW: 100 mA, HIGH: 500 mA). (3)
22	HID0/MS	I	HID key state input (mute), active HIGH (PCM2704). MS input (PCM2705). (2)
23	HID1/MC	I	HID key state input (volume up), active HIGH (PCM2704). MC input (PCM2705). (2)
24	HID2/MD	I	HID key state input (volume down), active HIGH (PCM2704). MD input (PCM2705). (2)
25	TEST1	I	Test pin. Must be set HIGH. (1)
26	TEST0	I	Test pin. Must be set HIGH. (1)
27	SSPND	O	Suspend flag, active LOW (LOW: suspend, HIGH: operational)
28	XTI	I	Crystal oscillator input. (1)

(1) LV-TTL level
(2) LV-TTL level with internal pulldown
(3) LV-TTL level, 5-V tolerant
(4) Connect decoupling capacitor to GND. Supply 3.3 V for self-powered applications.

IC10: YDA143-EZE2 (MAIN P.C.B.)
Stereo 15W digital audio power amplifier



IC10: YDA143-EZE2 (MAIN P.C.B.)

Stereo 15W digital audio power amplifier

No.	Terminal Name	I/O	Function	Pressure resistant
1	HPOR	O	R-ch headphone output terminal.	LV
2	AVSS	GND	5V analog ground terminal.	-
3	VSSBGR	GND	Ground terminal for reference voltage source.	-
4	VREFR	O	R-ch reference voltage terminal. (capacitor connected externally)	LV
5	INR	I	R-ch analog signal input terminal.	LV
6	MUTEN	I	Mute control terminal.	LV
7	NC	-	Usually, use this with nothing connected.	-
8	VSS	GND	Ground terminal. (connected to the IC die pad)	-
9	VSS	GND	Ground terminal. (connected to the IC die pad)	-
10	PVDDPR	Power supply	R-ch 12V type VDD terminal.	HV
11	PVDDPR	Power supply	R-ch 12V type VDD terminal.	HV
12	OUTPR	O	R-ch positive side output terminal.	HV
13	VSS	GND	Ground terminal. (connected to the IC die pad)	-
14	PVSSR	GND	R-ch 12V type VSS terminal.	-
15	OUTMR	O	R-ch negative side output terminal.	HV
16	PVDDMR	Power supply	R-ch 12V type VDD terminal.	HV
17	PVDDMR	Power supply	R-ch 12V type VDD terminal.	HV
18	VSS	GND	Ground terminal. (connected to the IC die pad)	-
19	VSS	GND	Ground terminal. (connected to the IC die pad)	-
20	NC	-	Usually, use this with nothing connected.	-
21	PROTN	O/D	Warning signal output terminal.	HV
22	SLEEPN	I	Sleep control terminal.	HV
23	DVSS	GND	Digital ground terminal.	-
24	CKIO	I/D	Clock input/output terminal.	LV
25	XO	O	Connection terminal.	LV
26	XI	I	Connection terminal.	LV
27	DVDD	I	Digital ground terminal. (connected to REFA terminal externally)	LV
28	MODE0	I	Operation mode select terminal.	LV
29	MODE1	I	Operation mode select terminal.	LV
30	MODE2	I	Operation mode select terminal.	LV
31	GAIN0	I	Input sensitivity setting terminal.	LV
32	GAIN1	I	Input sensitivity setting terminal.	LV
33	NC	-	Usually, use this with nothing connected.	-
34	VSS	GND	Ground terminal. (connected to the IC die pad)	-
35	VSS	GND	Ground terminal. (connected to the IC die pad)	-
36	PVDDML	Power supply	L-ch 12V type VDD terminal.	HV
37	PVDDML	Power supply	L-ch 12V type VDD terminal.	HV
38	OUTML	O	L-ch negative side output terminal.	HV
39	PVSSL	GND	L-ch 12V type VSS terminal.	-
40	VSS	GND	Ground terminal. (connected to the IC die pad)	-
41	OUTPL	O	L-ch positive side output terminal.	HV
42	PVDDPL	Power supply	L-ch 12V type VDD terminal.	HV
43	PVDDPL	Power supply	L-ch 12V type VDD terminal.	HV
44	VSS	GND	Ground terminal. (connected to the IC die pad)	-
45	VSS	GND	Ground terminal. (connected to the IC die pad)	-
46	NC	-	Usually, use this with nothing connected.	-
47	HP	I	Headphone control terminal.	LV
48	INL	I	L-ch analog signal input terminal.	LV
49	VREFL	O	L-ch reference voltage terminal. (capacitor connected externally)	LV
50	PVDDREG	Power supply	12V type PVDD terminal for regulator circuit.	HV
51	REFA	O	5V regulator output terminal. (capacitor connected externally)	LV
52	HPOL	O	L-ch headphone output terminal.	LV

Notes

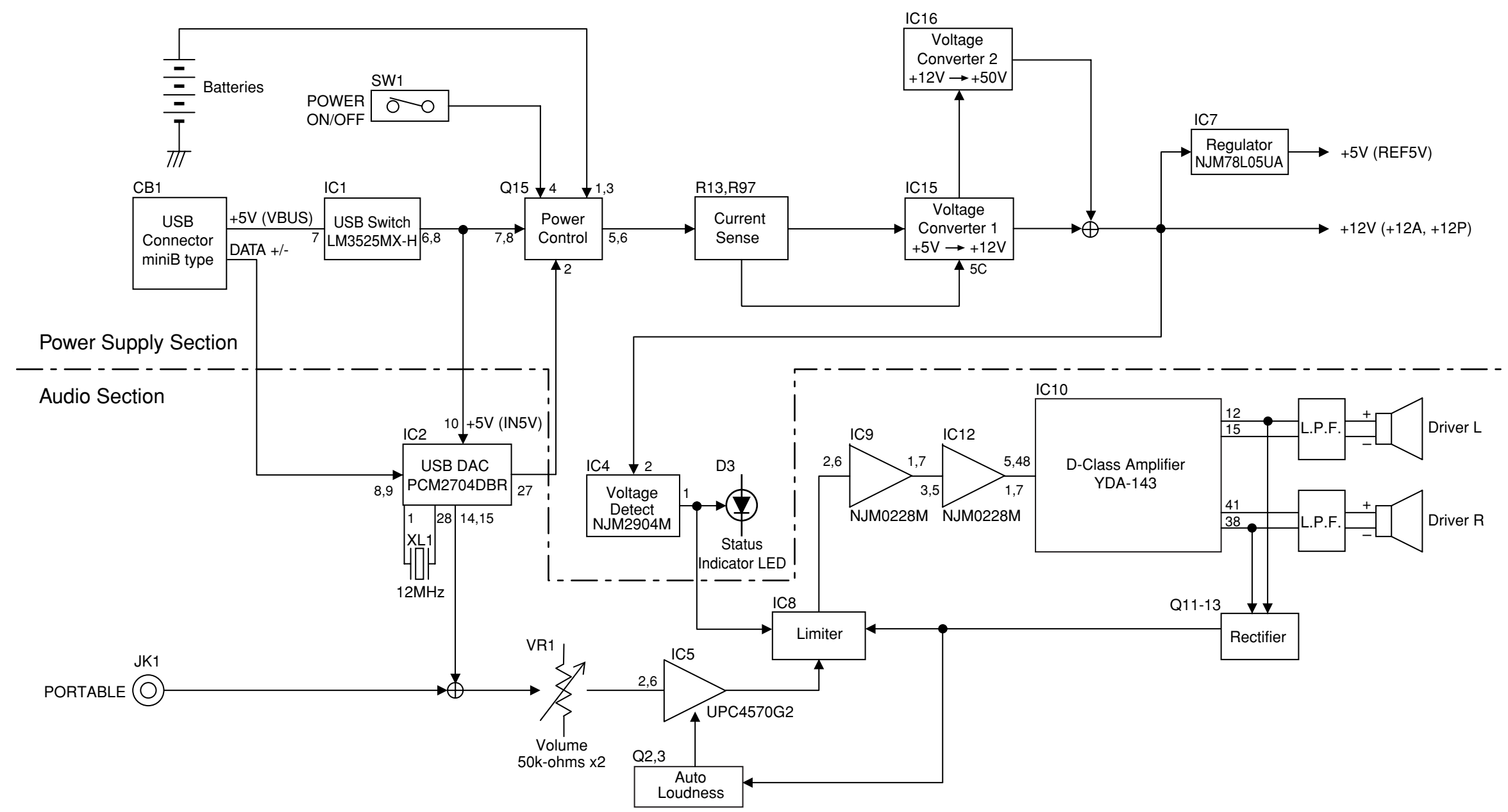
[I/O]: I: Input terminal, O: Output terminal, I/O: Input/output terminal, O/D: Open drain output terminal

LV : Terminal with the input voltage range same as VRE power voltage range.

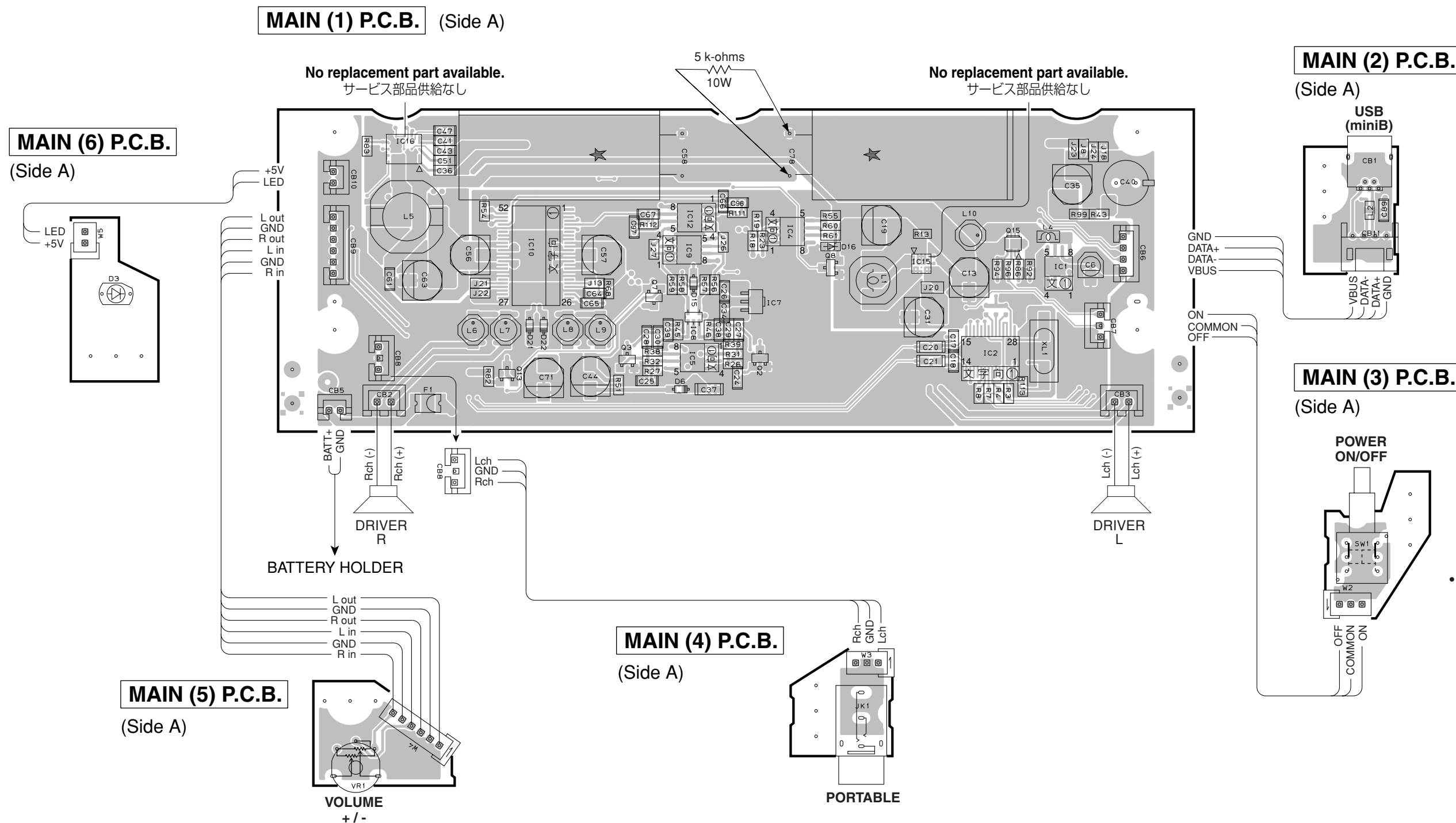
HV : Terminal with the input voltage range same as VDDP power voltage range.

1 ■ BLOCK DIAGRAM

2 MAIN



PRINTED CIRCUIT BOARDS



Safety Measures

- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
- C58 and C78 on the MAIN (1) P.C.B. are dangerous, for a high voltage is retained there even after the power is turned off. Before the repair work, connect a resistor about 5k-ohm/10W between terminals of the capacitor to force discharge. After the repair work, also perform force discharge by connecting a resistor about 5k-ohm/10W between terminals of the capacitor.

安全対策

- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を行ってください。
- MAIN(1)P.C.B.のC58、およびC78には電源OFF後も高電圧が維持されるため危険です。修理前に5kΩ/10W程度の抵抗をコンデンサの端子間に接続して強制放電してください。また、修理後も同様に5kΩ/10W程度の抵抗をコンデンサの端子間に接続して強制放電してください。

• Semiconductor Location

Ref no.	Location
D3	B3
D6	E4
D15	E3
D16	F3
D21	D3
D22	D3
IC1	G3
IC2	G4
IC4	F3
IC5	E4
IC7	E3
IC8	E3
IC9	E3
IC10	D3
IC12	E3
IC15	F3
IC16	C2
Q2	E4
Q3	E4
Q7	E3
Q8	F3
Q13	D4
Q15	G3

1

2

3

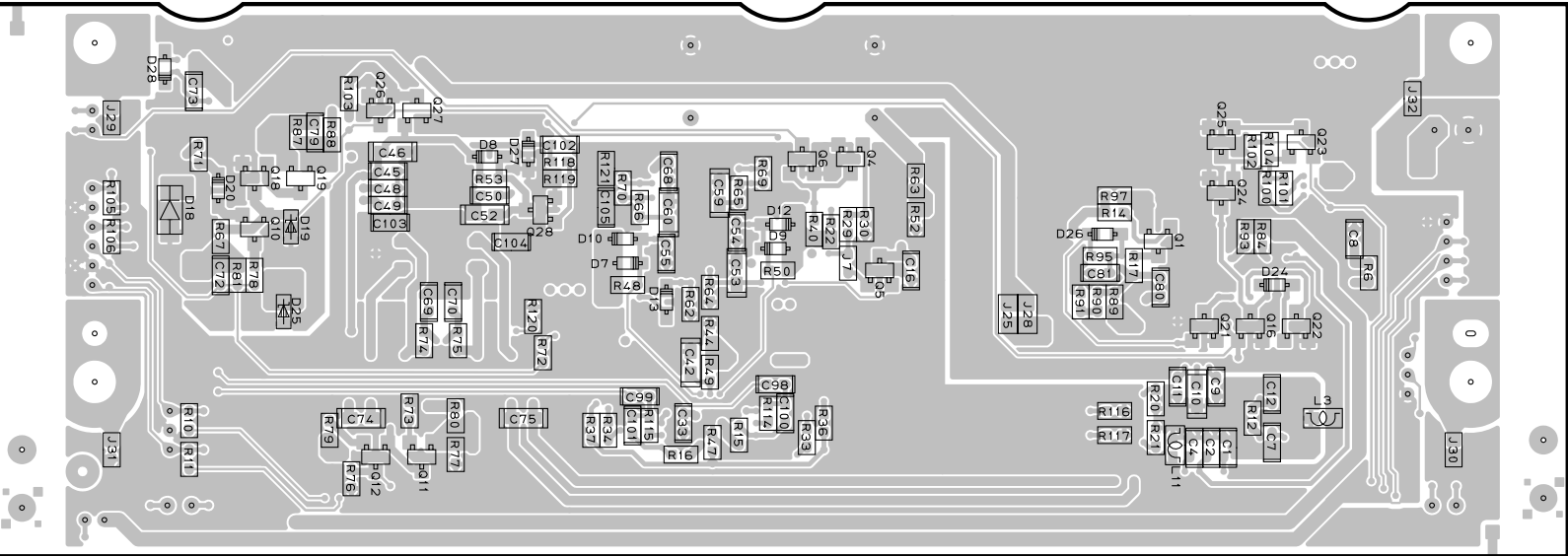
4

5

6

7

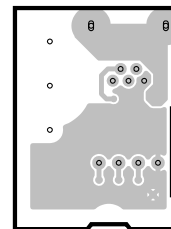
MAIN (1) P.C.B. (Side B)



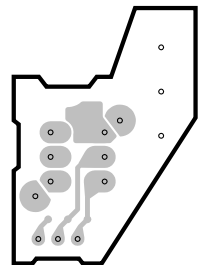
• **Semiconductor Location**

Ref no.	Location	Ref no.	Location
D7	D3	Q5	D3
D8	C2	Q6	D2
D9	D3	Q10	B3
D10	D3	Q11	C3
D12	D3	Q12	C3
D13	D3	Q16	F3
D18	B3	Q18	B3
D19	B3	Q19	B3
D20	B3	Q21	E3
D24	F3	Q22	F3
D25	B3	Q23	F2
D26	E3	Q24	F3
D27	C2	Q25	F2
D28	B2	Q26	C2
Q1	E3	Q27	C2
Q4	D2	Q28	C3

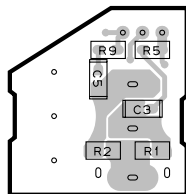
MAIN (2) P.C.B. (Side B)



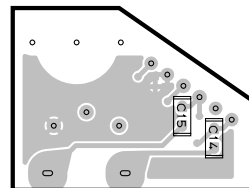
MAIN (3) P.C.B. (Side B)



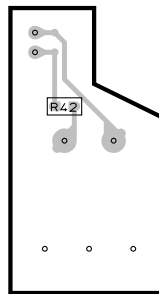
MAIN (4) P.C.B. (Side B)



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

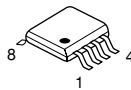
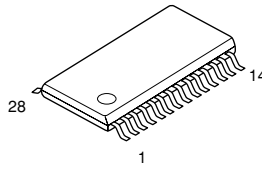
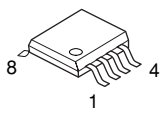
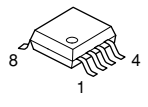
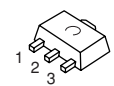
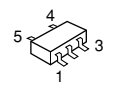
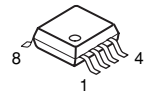
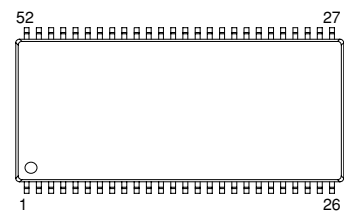


MAIN (6) P.C.B. (Side B)

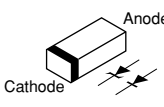
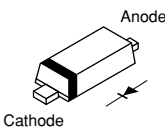


■ PIN CONNECTION DIAGRAMS


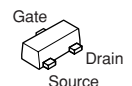

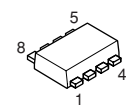
• ICs

<p>LM3525MX-H</p> 	<p>PCM2704DBR</p> 	<p>NJM2904M</p> 	<p>μPC4570G2</p> 
<p>NJM78L05UA</p>  <p>1: OUTPUT 2: GND 3: INPUT</p>	<p>2SK2145</p> 	<p>NJM022BM</p> 	<p>YDA143-EZE2</p> 

• Diodes

<p>1SS355 MA8068-H MA8120-L MA8160-M</p> 	<p>RB160L-60</p> 
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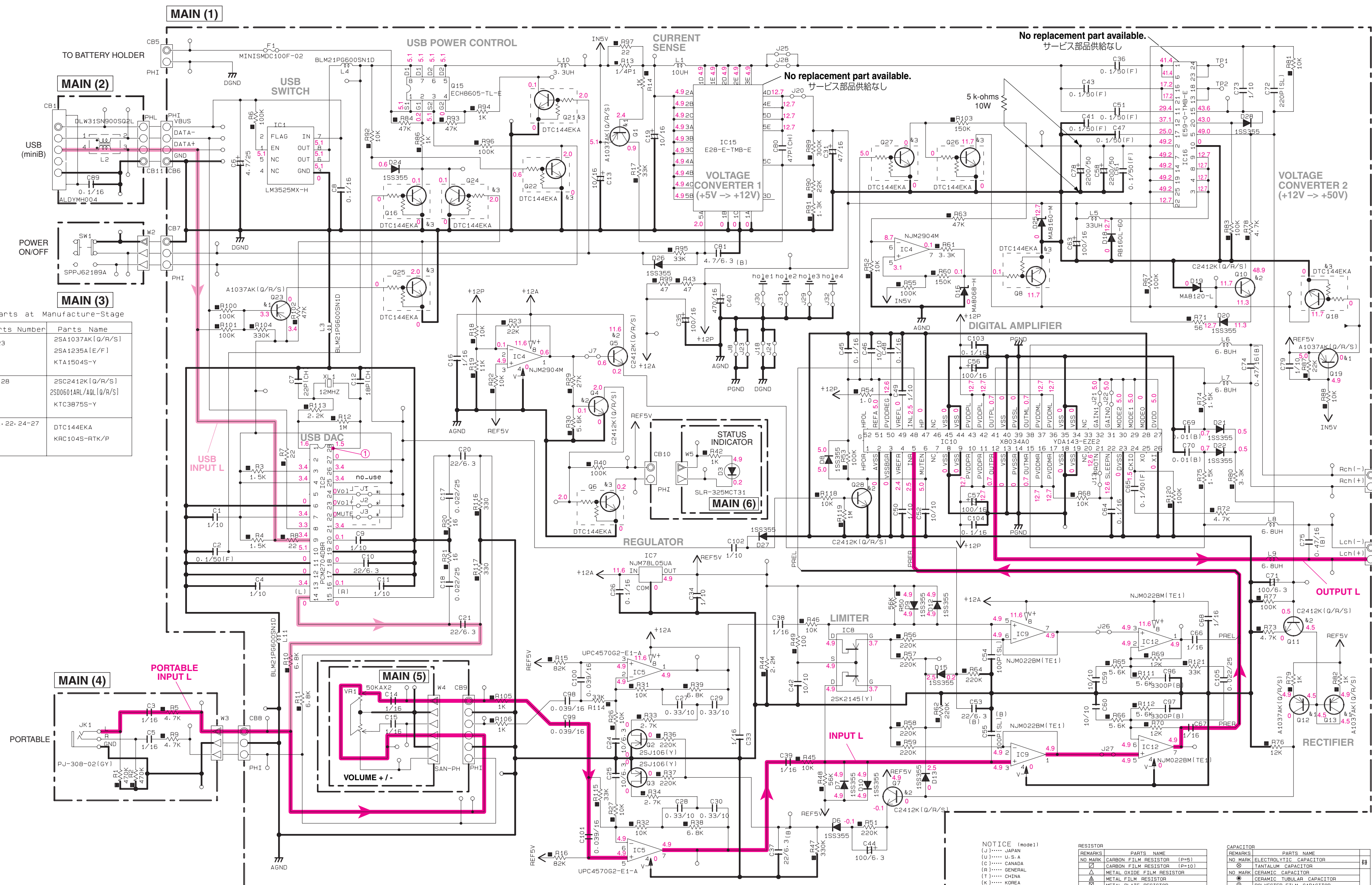
• Transistors

<p>2SA1037K 2SC2412K</p> 	<p>2SJ106</p> 	<p>DTC144EKA</p> 	<p>ECH8605</p>  <p>1. Source 1 2. Gate 1 3. Source 2 4. Gate 2 5. Drain 2 6. Drain 2 7. Drain 1 8. Drain 1</p>
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SCHEMATIC DIAGRAM
MAIN

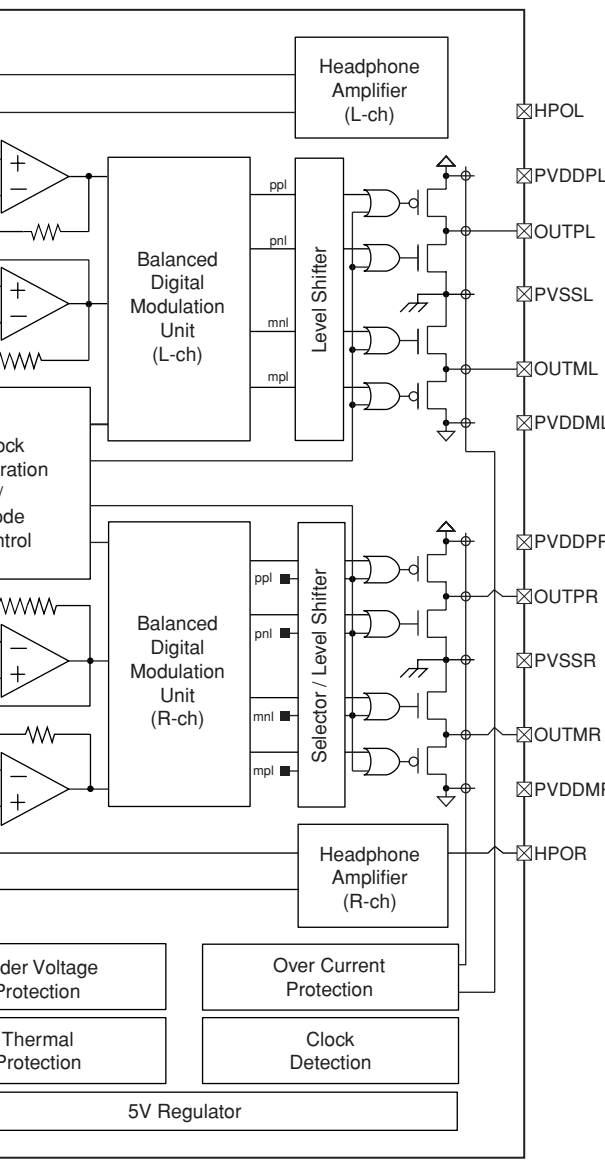
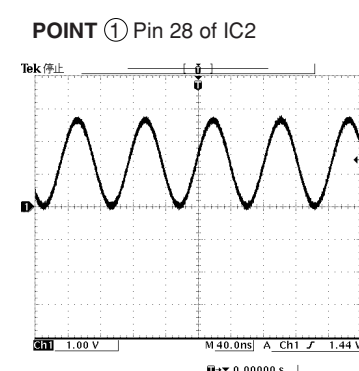
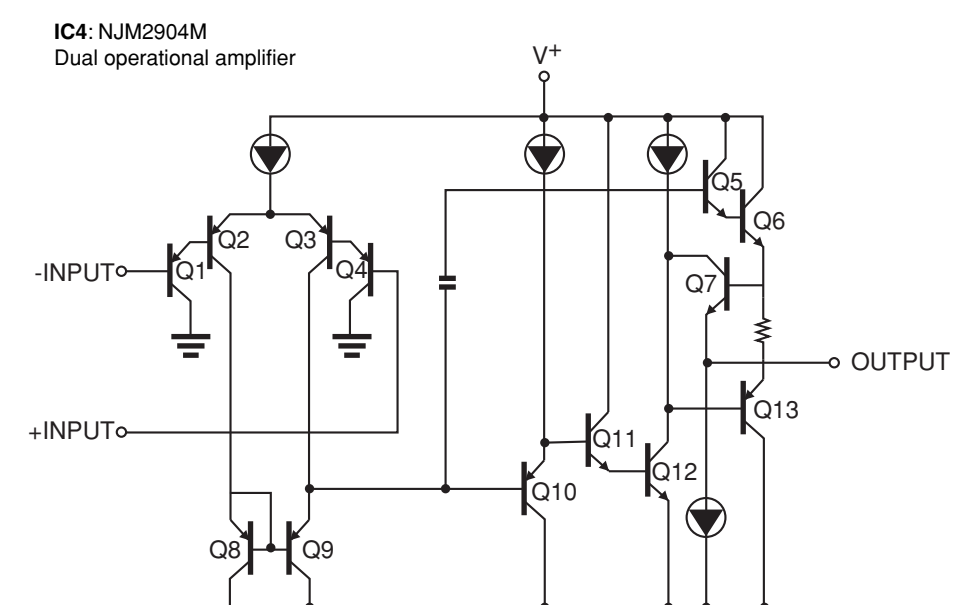
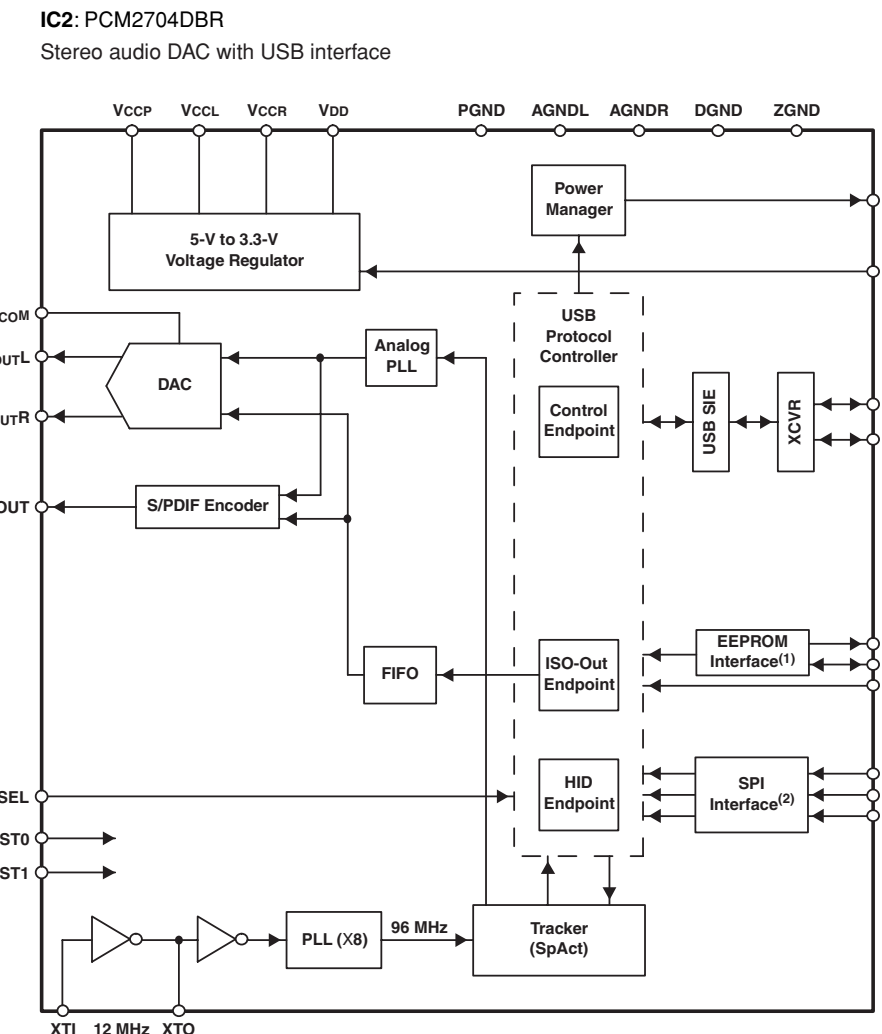
* Voltage measurement condition: USB/AC adapter is used
* 電圧測定条件: USB/AC ADAPTER使用時

IC10: YDA143-EZE2
Stereo 15W digital audio power amplifier

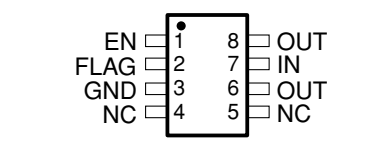


Interchangeable Parts at Manufacture-Stage

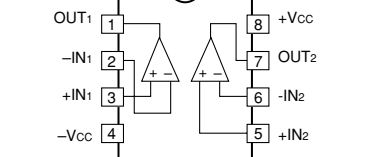
Mark	Reference Parts Number	Parts Name
♠1	01-12-13-19-23	25A1037AK(G/R/S) 25A1235A(E/F) KTA1504S-Y
♠2	04-5-7-10-11-28	25C2412K(G/R/S) 25D0610AL(Q/L)(G/R/S) KTC3975S-Y
♠3	06-8-16-18-21-22-24-27	DTC144EKA KRC104S-RTK/P



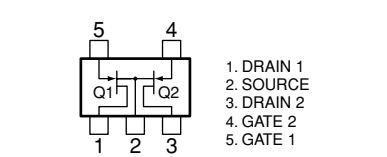
IC1: LM3525MX-H
Single port USB power switch and over current protection



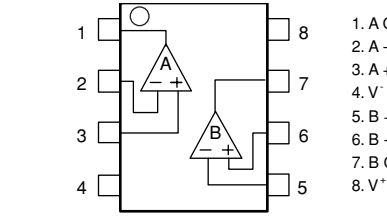
IC5: µPC4570G2
Dual operational amplifier



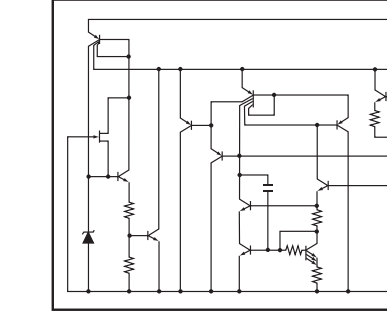
IC8: 2SK2145
Audio frequency low noise amplifier



IC9, 12: NJM022BM
Dual low power operational amplifiers



IC7: NJM78L05UA
Voltage regulator



NOTICE (note1)

REMARKS	PARTS NAME	REMARKS	PARTS NAME
(J)..... JAPAN	(U)..... U.S.A	(NO MARK)	CARBON FILM RESISTOR (P=5)
(C)..... CANADA	(E)..... EUROPE	(E)	TANTALUM CAPACITOR
(B)..... GENERAL	(K)..... KOREA	(A)	CERAMIC CAPACITOR
(I)..... INDIA	(A)..... AUSTRALIA	(M)	METAL FILM RESISTOR
(K)..... KOREA	(E)..... EUROPE	(P)	METAL OXIDE FILM RESISTOR
(A)..... AUSTRALIA	(B)..... BRITISH	(F)	FILM PROOF CARBON FILM CAPACITOR
(E)..... EUROPE	(S)..... SINGAPORE	(C)	POLYESTER FILM CAPACITOR
(S)..... SINGAPORE	(L)..... SOUTH EUROPE	(I)	CEMENT MOUNTED RESISTOR
(V)..... TAIWAN	(V)..... TAIWAN	(V)	SEMICONDUCTIVE CERAMIC CAPACITOR
(V)..... TAIWAN		(V)	SEMI VARIABLE RESISTOR
		(V)	DIAPHRAGM RESISTOR

Safety Measures

- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures during servicing, such as wearing insulating gloves.
- CSB and C78 on the MAIN (1) P.C.B. are dangerous, for a high voltage is retained there even after the power is turned off. Before the repair work, connect a resistor about 5k-ohm/10W between terminals of the capacitor to force discharge. After the repair work, also perform force discharge by connecting a resistor about 5k-ohm/10W between terminals of the capacitor.

安全対策

- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用などの安全対策を行ってください。
- MAIN(1) P.C.B.のCSB、およびC78には電源OFF後も高電圧が維持されるため危険です。修理前に5kΩ/10W程度の抵抗をコンデンサの端子間に接続して強制放電してください。また、修理後も同様に5kΩ/10W程度の抵抗をコンデンサの端子間に接続して強制放電してください。

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

● 電圧は、内部抵抗10MΩの電圧計で測定したものです。
● ♠印のある部品は、安全性能確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
● 本回路図は標準回路図です。改良のため予告なく変更することがございます。

(1)ApplisProPCM2704DB
(2)ApplisProPCM2705DB

■ REPLACEMENT PARTS LIST

● ELECTRICAL COMPONENT PARTS

WARNING

- Components having special characteristics are marked \triangle and must be replaced with parts having specifications equal to those originally installed.
- The chip resistor is not supplied as a replacement part.
 - * When a chip resistor is necessary, use the following part.
AAX60720: CHIP RESISTOR SAMPLE BOOK
- \triangle 印のある部分は、安全確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
- 部品価格ランクは、予告なく変更することがあります。
- チップ抵抗はサービス部品として供給しません。
 - ※ チップ抵抗が必要な場合は、下記の部品をご利用ください。
AAX60720: CHIP RESISTOR SAMPLE BOOK

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS:

C.A.EL.CHP	: CHIP ALUMI.ELECTROLYTIC CAP	L.EMIT	: LIGHT EMITTING MODULE
C.CE	: CERAMIC CAP	LED.DSPLY	: LED DISPLAY
C.CE.ARRAY	: CERAMIC CAP ARRAY	LED.INFRD	: LED,INFRARED
C.CE.CHP	: CHIP CERAMIC CAP	MODUL.RF	: MODULATOR,RF
C.CE.ML	: MULTILAYER CERAMIC CAP	PHOT.CPL	: PHOTO COUPLER
C.CE.M.CHP	: CHIP MULTILAYER CERAMIC CAP	PHOT.INTR	: PHOTO INTERRUPTER
C.CE.SAFTY	: RECOGNIZED CERAMIC CAP	PHOT.RFLCT	: PHOTO REFLECTOR
C.CE.TUBLR	: CERAMIC TUBULAR CAP	PIN.TEST	: PIN,TEST POINT
C.CE.SMI	: SEMI CONDUCTIVE CERAMIC CAP	PLST.RIVET	: PLASTIC RIVET
C.EL	: ELECTROLYTIC CAP	R.ARRAY	: RESISTOR ARRAY
C.MICA	: MICA CAP	R.CAR.	: CARBON RESISTOR
C.ML.FLM	: MULTILAYER FILM CAP	R.CAR.CHP	: CHIP RESISTOR
C.MP	: METALLIZED PAPER CAP	R.CAR.FP	: FLAME PROOF CARBON RESISTOR
C.MYLAR	: MYLAR FILM CAP	R.FUS	: FUSABLE RESISTOR
C.MYLAR.ML	: MULTILAYER MYLAR FILM CAP	R.MTL.CHP	: CHIP METAL FILM RESISTOR
C.PAPER	: PAPER CAPACITOR	R.MTL.FLM	: METAL FILM RESISTOR
C.PLS	: POLYSTYRENE FILM CAP	R.MTL.OXD	: METAL OXIDE FILM RESISTOR
C.POL	: POLYESTER FILM CAP	R.MTL.PLAT	: METAL PLATE RESISTOR
C.POLY	: POLYETHYLENE FILM CAP	RSNR.CE	: CERAMIC RESONATOR
C.PP	: POLYPROPYLENE FILM CAP	RSNR.CRYS	: CRYSTAL RESONATOR
C.TNTL	: TANTALUM CAP	R.TW.CEM	: TWIN CEMENT FIXED RESISTOR
C.TNTL.CHP	: CHIP TANTALUM CAP	R.CEMENT	: CEMENT RESISTOR
C.TRIM	: TRIMMER CAP	SCR.BND.HD	: BIND HEAD B-TIGHT SCREW
CN	: CONNECTOR	SCR.BW.HD	: BW HEAD TAPPING SCREW
CN.BS.PIN	: CONNECTOR,BASE PIN	SCR.CUP	: CUP TIGHT SCREW
CN.CANNON	: CONNECTOR,CANNON	SCR.TERM	: SCREW TERMINAL
CN.DIN	: CONNECTOR,DIN	SCR.TR	: SCREW,TRANSISTOR
CN.FLAT	: CONNECTOR,FLAT CABLE	SUPRT.PCB	: SUPPORT,P.C.B.
CN.POST	: CONNECTOR,BASE POST	SURG.PRTCT	: SURGE PROTECTOR
COIL.MX.AM	: COIL,AM MIX	SW.TACT	: TACT SWITCH
COIL.AT.FM	: COIL,FM ANTENNA	SW.LEAF	: LEAF SWITCH
COIL.DT.FM	: COIL,FM DETECT	SW.LEVER	: LEVER SWITCH
COIL.MX.FM	: COIL,FM MIX	SW.MICRO	: MICRO SWITCH
COIL.OUTPT	: OUTPUT COIL	SW.PUSH	: PUSH SWITCH
DIOD.ARRAY	: DIODE ARRAY	SW.RT.ENC	: ROTARY ENCODER
DIODE.BRG	: DIODE BRIDGE	SW.RT.MTR	: ROTARY SWITCH WITH MOTOR
DIODE.CHP	: CHIP DIODE	SW.RT	: ROTARY SWITCH
DIODE.VAR	: VARACTOR DIODE	SW.SLIDE	: SLIDE SWITCH
DIOD.Z.CHP	: CHIP ZENER DIODE	TERM.SP	: SPEAKER TERMINAL
DIODE.ZENR	: ZENER DIODE	TERM.WRAP	: WRAPPING TERMINAL
DSCR.CE	: CERAMIC DISCRIMINATOR	THRMST.CHP	: CHIP THERMISTOR
FER.BEAD	: FERRITE BEADS	TR.CHP	: CHIP TRANSISTOR
FER.CORE	: FERRITE CORE	TR.DGT	: DIGITAL TRANSISTOR
FET.CHP	: CHIP FET	TR.DGT.CHP	: CHIP DIGITAL TRANSISTOR
FL.DSPLY	: FLUORESCENT DISPLAY	TRANS	: TRANSFORMER
FLTR.CE	: CERAMIC FILTER	TRANS.PULS	: PULSE TRANSFORMER
FLTR.COMB	: COMB FILTER MODULE	TRANS.PWR	: POWER TRANSFORMER ASS'Y
FLTR.LC.RF	: LC FILTER,EMI	TUNER.AM	: TUNER PACK,AM
GND.MTL	: GROUND PLATE	TUNER.FM	: TUNER PACK,FM
GND.TERM	: GROUND TERMINAL	TUNER.PK	: FRONT-ENDTUNER PACK
HOLDER.FUS	: FUSE HOLDER	VR	: ROTARY POTENTIOMETER
IC.PRTCT	: IC PROTECTOR	VR.MTR	: POTENTIOMETER WITH MOTOR
JUMPER.CN	: JUMPER CONNECTOR	VR.SW	: POTENTIOMETER WITH ROTARY SW
JUMPER.TST	: JUMPER,TEST POINT	VR.SLIDE	: SLIDE POTENTIOMETER
L.DTCT	: LIGHT DETECTING MODULE	VR.TRIM	: TRIMMER POTENTIOMETER

P.C.B. MAIN

Ref. No.	Part No.	Description	Remarks	Markets	部 品 名	ラング
	WJ681100	P. C. B.	MAIN		P C B メイン	
* *	CB1	WJ289700	CN.USB MN	5P MINI B-TYPE	ミニUSBコネクター	
	CB2-3	LB918020	CN.BS.PIN	2P	ベース付ポスト	01
	CB5	VB389800	CN.BS.PIN	2P	ベースピン	01
	CB6	VB390000	CN.BS.PIN	4P	ベースピン	01
	CB7-8	VB389900	CN.BS.PIN	3P	ベースピン	01
	CB9	VB390200	CN.BS.PIN	6P	コネクタベースポスト	01
	CB10	VB389800	CN.BS.PIN	2P	ベースピン	01
	CB11	VB858300	CN.BS.PIN	4P	ベースピン	
	C1	US126100	C.CE.CHP	1uF 10V	チップセラコン	01
	C2	US065100	C.CE.CHP	0.1uF 50V B	チップセラコン	
*	C3	WJ881200	C.CE.CHP	1uF 16V	チップセラコン	
	C4	US126100	C.CE.CHP	1uF 10V	チップセラコン	01
*	C5	WJ881200	C.CE.CHP	1uF 16V	チップセラコン	
	C6	UF046470	C.EL.CHP	4.7uF 25V	チップケミコン	01
	C7	US061220	C.CE.CHP	22pF 50V B	チップセラコン	01
	C8	US035100	C.CE.CHP	0.1uF 16V B	チップセラコン	01
	C9	US126100	C.CE.CHP	1uF 10V	チップセラコン	01
	C10	WD758100	C.CE.CHP	22uF 6.3V	チップセラコン	01
	C11	US126100	C.CE.CHP	1uF 10V	チップセラコン	01
	C12	US061180	C.CE.CHP	18pF 50V B	チップセラコン	01
*	C13	WE477100	C.EL	10uF 16V	ケミコン	
*	C14-16	WJ881200	C.CE.CHP	1uF 16V	チップセラコン	
	C17-18	US044220	C.CE.CHP	0.022uF 25V B	チップセラコン	01
*	C19	WE477100	C.EL	10uF 16V	ケミコン	
*	C20-21	WJ344400	C.CE.CHP	22uF 6.3V	チップセラコン	
*	C24-25	WJ344100	C.CE.CHP	10uF 6.3V	チップセラコン	
	C26	US035100	C.CE.CHP	0.1uF 16V B	チップセラコン	01
*	C27-30	WJ343900	C.CE.CHP	0.33uF 10V	チップセラコン	
	C31	UF037470	C.EL.CHP	47uF 16V	チップケミコン	01
*	C33	WJ881200	C.CE.CHP	1uF 16V	チップセラコン	
	C34	US126100	C.CE.CHP	1uF 10V	チップセラコン	01
	C35	UF038100	C.EL.CHP	100uF 16V	チップケミコン	01
	C36	US065100	C.CE.CHP	0.1uF 50V B	チップセラコン	
*	C37	WJ344400	C.CE.CHP	22uF 6.3V	チップセラコン	
*	C38-39	WJ881200	C.CE.CHP	1uF 16V	チップセラコン	
*	C40	WJ984000	C.EL	470uF 16V	ケミコン FW	
	C41	US065100	C.CE.CHP	0.1uF 50V B	チップセラコン	
	C42	WD758300	C.CE.CHP	10uF 10V	チップセラコン	01
	C43	US065100	C.CE.CHP	0.1uF 50V B	チップセラコン	
	C44	UF018100	C.EL.CHP	100uF 6.3V	チップケミコン	01
	C45	US035100	C.CE.CHP	0.1uF 16V B	チップセラコン	01
	C46	WD758300	C.CE.CHP	10uF 10V	チップセラコン	01
	C47	US065100	C.CE.CHP	0.1uF 50V B	チップセラコン	
	C48	US035100	C.CE.CHP	0.1uF 16V B	チップセラコン	01
	C49-50	US126100	C.CE.CHP	1uF 10V	チップセラコン	01
	C51	US065100	C.CE.CHP	0.1uF 50V B	チップセラコン	
	C52	WD758300	C.CE.CHP	10uF 10V	チップセラコン	01
	C53	WD758100	C.CE.CHP	22uF 6.3V	チップセラコン	01
	C54-55	US062100	C.CE.CHP	100pF 50V B	チップセラコン	01
	C56-57	UF038100	C.EL.CHP	100uF 16V	チップケミコン	01
*	C58	WJ344500	C.EL	2200uF 50V	ケミコン	
	C59-60	WD758300	C.CE.CHP	10uF 10V	チップセラコン	01
	C61	US065100	C.CE.CHP	0.1uF 50V B	チップセラコン	
	C63	UF038100	C.EL.CHP	100uF 16V	チップケミコン	01
	C64	US035100	C.CE.CHP	0.1uF 16V B	チップセラコン	01
	C65	US065100	C.CE.CHP	0.1uF 50V B	チップセラコン	

* New Parts * 新規部品

P.C.B. MAIN

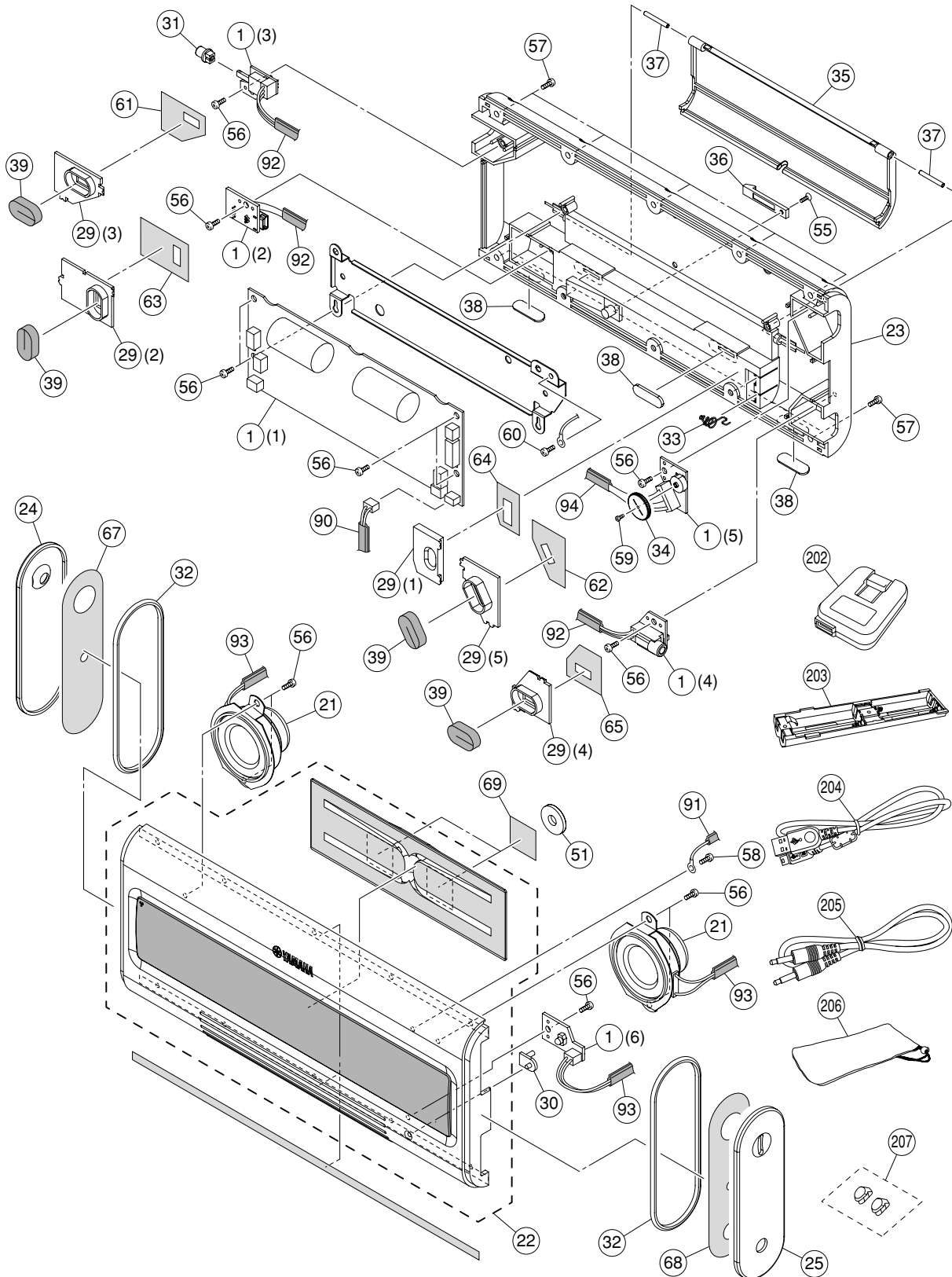
Ref. No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
*	C66-68	WJ881200 C. CE. CHP	1uF 16V		チップセラコン	
	C69-70	US064100 C. CE. CHP	0.01uF 50V B		チップセラコン	01
	C71	UF018100 C. EL. CHP	100uF 6.3V		チップケミコン	01
	C72	US062220 C. CE. CHP	220pF 50V B		チップセラコン	01
	C73	US126100 C. CE. CHP	1uF 10V		チップセラコン	01
	C74-75	VZ281900 C. CE. CHP	0.47uF 16V K		チップセラコン	01
*	C78	WJ344500 C. EL	2200uF 50V		ケミコン	
	C79	US126100 C. CE. CHP	1uF 10V		チップセラコン	01
	C80	US061470 C. CE. CHP	47pF 50V B		チップセラコン	01
	C81	WG251600 C. CE. CHP	4.7uF 6.3V		チップセラコン	01
	C89	US035100 C. CE. CHP	0.1uF 16V B		チップセラコン	01
	C96-97	US063330 C. CE. CHP	3300pF 50V		チップセラコン	01
	C98-101	US034390 C. CE. CHP	0.039uF 16V B		チップセラコン	01
	C102	US126100 C. CE. CHP	1uF 10V		チップセラコン	01
	C103-104	US035100 C. CE. CHP	0.1uF 16V		チップセラコン	01
	C105	US044220 C. CE. CHP	0.022uF 25V		チップセラコン	01
	D3	VR711400 LED(gr)	GREEN SLR-325MC		L E D	01
	D6-10	VT332900 DIODE	1SS355		ダイオード	01
	D12-13	VT332900 DIODE	1SS355		ダイオード	01
	D15	VT332900 DIODE	1SS355		ダイオード	01
	D16	VU993900 DIODE. ZENR	MA8068-H 7V		ツェナーダイオード	01
	D18	V8409200 DIODE. CHP	RB160L-60		チップダイオード	01
*	D19	VU996100 DIODE. ZENR	MA8120-L 11.7V		ツェナーダイオード	
	D20-22	VT332900 DIODE	1SS355		ダイオード	01
	D24	VT332900 DIODE	1SS355		ダイオード	01
*	D25	VU997500 DIODE. ZENR	MA8160-M 16.0V		ツェナーダイオード	
	D26-28	VT332900 DIODE	1SS355		ダイオード	01
	F1	V2429100 SW. POLY	SMDC100-02		ポリスイッチ	02
	IC1	X3119A00 IC	LM3525MX-H/NOPB		電源 I C	05
*	IC2	X8261A00 IC	PCM2704DBR		I C	
	IC4	XV190A00 IC	NJM2904M OP AMP		アンプ I C	01
	IC5	X7351A00 IC	UPC4570G2-E1-A		アンプ I C	01
	IC7	XJ598A00 IC	NJM78L05UA 5V		電源 I C	02
*	IC8	WJ122600 FET	2SK2145 Y TP		F E T	
	IC9	X6168A00 IC	NJM022BM(TE1)		アンプ I C	02
*	IC10	X8034A00 IC	YDA143-EZE2		デジタルアンプ I C	
	IC12	X6168A00 IC	NJM022BM(TE1)		アンプ I C	02
*	JK1	WJ823700 JACK	3.5mm 2P, PORTABLE		3.5mmステレオミニジャック	
	Q1	VV556500 TR	2SA1037K Q, R, S		トランジスタ	01
*	Q2-3	V2734100 FET	2SJ106(Y)		F E T	
	Q4-5	VV556400 TR	2SC2412K Q, R, S		トランジスタ	01
	Q6	VV655700 TR. DGT	DTC144EKA		デジタルトランジスタ	01
	Q7	VV556400 TR	2SC2412K Q, R, S		トランジスタ	01
	Q8	VV655700 TR. DGT	DTC144EKA		デジタルトランジスタ	01
	Q10-11	VV556400 TR	2SC2412K Q, R, S		トランジスタ	01
	Q12-13	VV556500 TR	2SA1037K Q, R, S		トランジスタ	01
*	Q15	WJ314500 FET	ECH8605-TL-E		F E T	
	Q16	VV655700 TR. DGT	DTC144EKA		デジタルトランジスタ	01
	Q18	VV655700 TR. DGT	DTC144EKA		デジタルトランジスタ	01
	Q19	VV556500 TR	2SA1037K Q, R, S		トランジスタ	01
	Q21-22	VV655700 TR. DGT	DTC144EKA		デジタルトランジスタ	01
	Q23	VV556500 TR	2SA1037K Q, R, S		トランジスタ	01
	Q24-27	VV655700 TR. DGT	DTC144EKA		デジタルトランジスタ	01
	Q28	VV556400 TR	2SC2412K Q, R, S		トランジスタ	01
	SW1	VP597600 SW. PUSH	POWER ON/OFF		プッシュ SW	03
*	VR1	WJ123400 VR.	A 50KΩ VOLUME		二連ロータリー V R	
	XL1	WG538400 RSNR. CRYST	12MHz SMD-49		水晶振動子	

* New Parts * 新規部品

• OVERALL ASS'Y

- Notes) • After disassembling the unit or replacing any part, be sure to input a signal (20 Hz to 20 kHz) from the PORTABLE terminal to make sure that the unit is free from chattering or abnormal sound.
- The double coated adhesive tape and bush once removed cannot be reused. Be sure to use a new double coated adhesive tape and bush for replacement.

- 注意) • 分解または部品交換後には、必ずPORTABLE端子から信号(20Hz-20kHz)を入力し、本機のビリ付きまたは異音等がないか確認してください。
- 一度取り外した両面粘着テープおよびブッシュは、使用できません。必ず、新しい両面粘着テープおよびブッシュに交換してください。



Ref No.	Part No.	Description	Remarks	Markets	部 品 名	ランク
*	1	WJ681100 P.C.B. ASS'Y	MAIN		P C B メイン	
*	21	X8544A00 DRIVER FULL-RANGE	3.8cm 6Ω	JA05H3	スピーカーユニット	
*	22	WK534500 FRONT PANEL UNIT			フロントパネルユニット	
*	23	WJ460800 REAR CABINET			リアキャビネット	
*	24	WJ461100 SIDE COVER L	POWER ON/OFF		サイドカバー L	
*	25	WJ461300 SIDE COVER R	VOLUME +/-		サイドカバー R	
*	29	WJ461900 COVER SHIELD			シールドカバー	
*	30	WJ462000 LENS	1P		レンズ	
*	31	WJ462200 BUTTON POWER	POWER ON/OFF		ボタンパワー	
*	32	WJ463100 RING			リング	
*	33	WJ464300 COIL SPRING C			コイルスプリングC	
*	34	WJ462100 VOLUME	D14		ボリューム	
*	35	WJ461000 REAR COVER	STAND		リアカバー	
*	36	WJ462500 BATTERY HOOK			バッテリーフック	
*	37	V3263300 SPRING PIN			スプリングピン	
*	38	WJ465300 CUSHION LEG	20x6x1.5		クッション/レッグ	
*	39	WJ465200 BUSH	18x10x5		ブッシュ	
*	51	WH117100 PLAIN WASHER	5x16x2 MFZN2W3		平座金みがき丸	
*	55	WG870100 FLAT HEAD P-TIGHT SCREW	2x5 MFZN2W3		精密皿Pタイトネジ	
*	56	WE774800 BIND HEAD P-TIGHT SCREW	3x8 MFZN2W3		バインドPタイトネジ	01
*	57	WA231700 BIND HEAD P-TIGHT SCREW	3x8 MFN133		バインドPタイトネジ	01
*	58	WF305600 BIND HEAD P-TIGHT SCREW	3x6 MFZN2B3		バインドPタイトネジ	01
*	59	WJ590100 BIND HEAD SCREW	1.4x4 MFZN2W3		精密小ネジ	
*	60	WE774400 BIND HEAD B-TIGHT SCREW	3x8 MFZN2B3		バインドBタイトネジ	01
*	61	WJ976200 DOUBLE COATED ADHESIVE TAPE	30.8x23 POWER		両面粘着テープ	
*	62	WJ976300 DOUBLE COATED ADHESIVE TAPE	23x30 VOLUME		両面粘着テープ	
*	63	WJ976400 DOUBLE COATED ADHESIVE TAPE	33.5x22.5 USB		両面粘着テープ	
*	64	WJ976500 DOUBLE COATED ADHESIVE TAPE	24.7x15.5 BATTERY		両面粘着テープ	
*	65	WJ976600 DOUBLE COATED ADHESIVE TAPE	24.3x23 PORTABLE		両面粘着テープ	
*	67	WJ465500 DOUBLE COATED ADHESIVE TAPE	96.5x29.5 SIDE L		両面粘着テープ	
*	68	WJ585600 DOUBLE COATED ADHESIVE TAPE	96.5x29.5 SIDE R		両面粘着テープ	
*	69	WH117200 DOUBLE COATED ADHESIVE TAPE	18x18 WASHER		両面粘着テープ	
*	90	WJ970700 PACKING	45x20 t=1		パッキン	
*	91	WJ970800 PACKING	60x20 t=1		パッキン	
*	92	WJ970900 PACKING	80x20 t=1		パッキン	
*	93	WJ971000 PACKING	100x20 t=1		パッキン	
*	94	WJ971100 PACKING	70x30 t=1		パッキン	
		ACCESSORIES			付属品	
*	202	WJ840900 USB/AC ADAPTOR	5V/100-240V 1pc	FU03-21050-A20F	JU	USB/ACアダプター
*	202	WJ845700 USB/AC ADAPTOR	5V/100-240V 1pc	IU03-61050-013F	T	USB/ACアダプター
*	202	WJ846400 USB/AC ADAPTOR	5V/100-240V 1pc	IU03-61050-017F	K	USB/ACアダプター
*	202	WJ845900 USB/AC ADAPTOR	5V/100-240V 1pc	IU03-61050-015F	A	USB/ACアダプター
*	202	WJ846200 USB/AC ADAPTOR	5V/100-240V 1pc	IU03-61050-014F	B	USB/ACアダプター
*	202	WJ846100 USB/AC ADAPTOR	5V/100-240V 1pc	IU03-61050-012F	GL	USB/ACアダプター
*	202	WJ845400 USB/AC ADAPTOR	5V/100-240V 1pc	FU03-21050-A21F	V	USB/ACアダプター
*	203	WJ792400 BATTERY HOLDER	1pc			バッテリーホルダー
*	204	WK196000 USB CABLE	1m A-miniB 1pc	ALDYMHO08		USBケーブル
*	205	WJ841100 3.5mm STEREO MINI PLUG CABLE	2P 0.5m 1pc			3.5mmステレオミニプラグケーブル
*	206	WJ976800 CARRYING CASE	1pc			キャリングケース
*	207	WK366100 NONSKID PAD	2pcs/set			滑止パッド

* New Parts * 新規部品

NX-U10

