DIGITAL PIANO

YDP-121

SERVICE MANUAL



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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 all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

IMPORTANT: This presentation or sale of this manual to any individual or firm does not constitute authorization, certification, recognition of any applicable technical capabilities, or establish a principal-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, therefor, inevitable and changes in specification 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 bus in the unit (heavy gauge black wires connect to this bus).

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

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product 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 WHAT SO EVER!

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.

■ WARNING

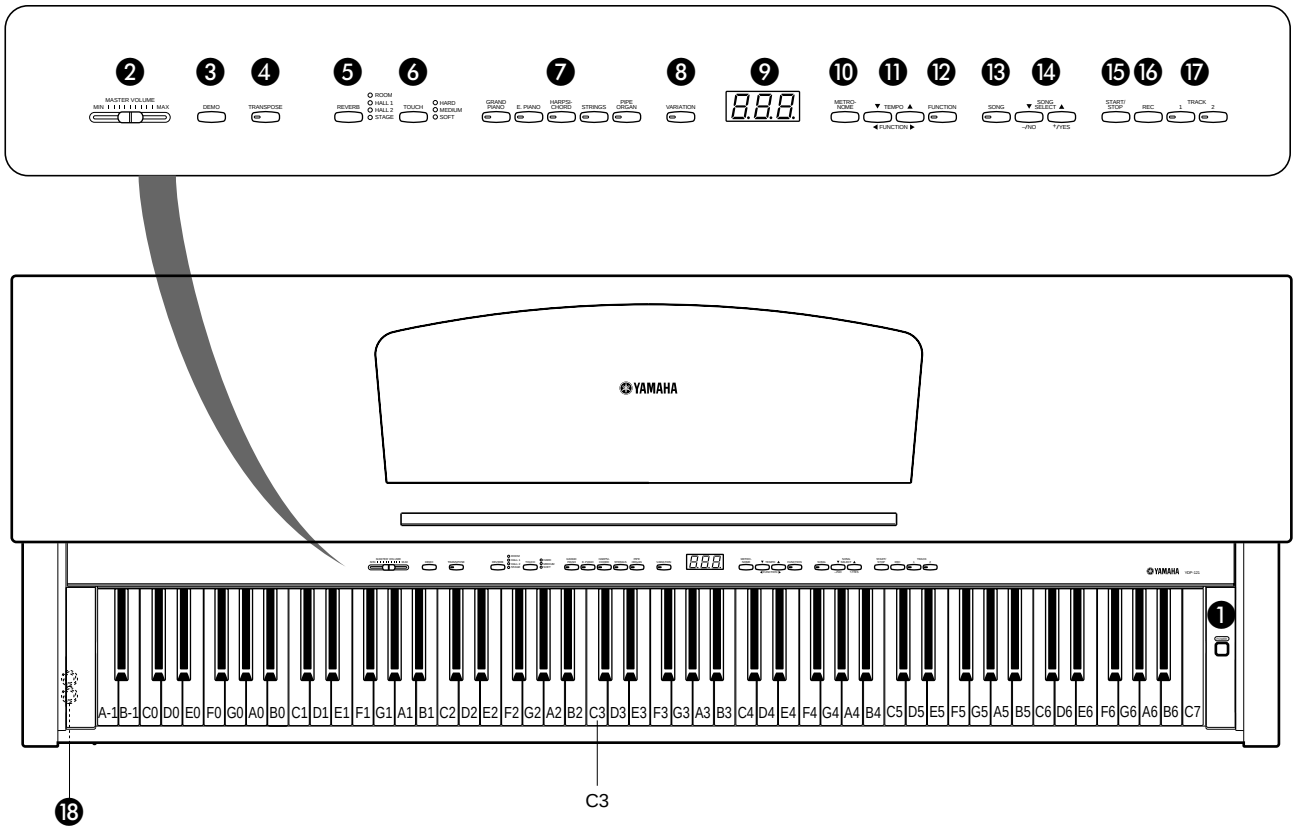
Components having special characteristics are marked and must be replaced with parts having specification equal to those originally installed.

■ SPECIFICATIONS

KEYBOARD		88 KEYS (A-1 ~ C7)
POLYPHONY		32 NOTES MAX.
VOICE SELECTORS		5 voices + Variation for each voice
REVERB		ROOM, HALL 1, HALL 2, STAGE
TOUCH SENSITIVITY		HARD, MEDIUM, SOFT, FIXED
RECORDER		1, 2, START/STOP, REC
PEDAL CONTROLS		SOFT, SOSTENUTO, DAMPER
OTHER CONTROLS		MASTER VOLUME, DEMO, TRANSPOSE, METRONOME TEMPO [▼]/[▲], FUNCTION, SONG, SONG SELECT [▼]/[▲] LED Display
JACKS/CONNECTORS		PHONES x 2, PEDAL
OUTPUT IMPEDANCE		PHONES JACK : Output impedance 100Ω
MAIN AMPLIFIERS		20W x 2
SPEAKERS		16cm x 2
POWER REQUIREMENTS		U.S.A. & Canada 120V AC, 60Hz Europe 230V AC, 50Hz
POWER CONSUMPTION		35W
DIMENSIONS (W x D x H)	**Music stand down**	1384 x 468 x 829mm (54-1/2” x 18-1/2” x 32-5/8”)
	Music stand up	1384 x 468 x 1001mm (54-1/2” x 18-1/2” x 39-3/8”)
WEIGHT		46 kg (101 lbs., 7 oz)

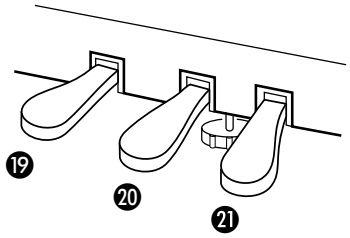
■ PANEL LAYOUT

• Control Panel



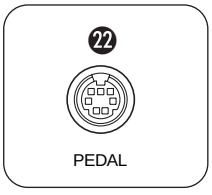
❶ [POWER] Button
❷ [MASTER VOLUME] Knob
❸ [DEMO] Button
❹ [TRANSPOSE] Button
❺ [REVERB] Button
❻ [TOUCH] Button
❼ [VOICE SELECT] Buttons
❽ [VARIATION] Button
❾ DISPLAY
❿ [METRONOME] Button
⓫ [▼] TEMPO [▲] / [◀] FUNCTION [▶] Button
⓬ [FUNCTION] Button
⓭ [SONG] Button
⓮ [▼] SONG SELECT [▲] / [–/NO][+/YES] Button
⓯ [START/STOP] Button
⓰ [REC] Button
⓱ [TRACK] Buttons
[1][2]
⓲ [PHONES]

• Pedal

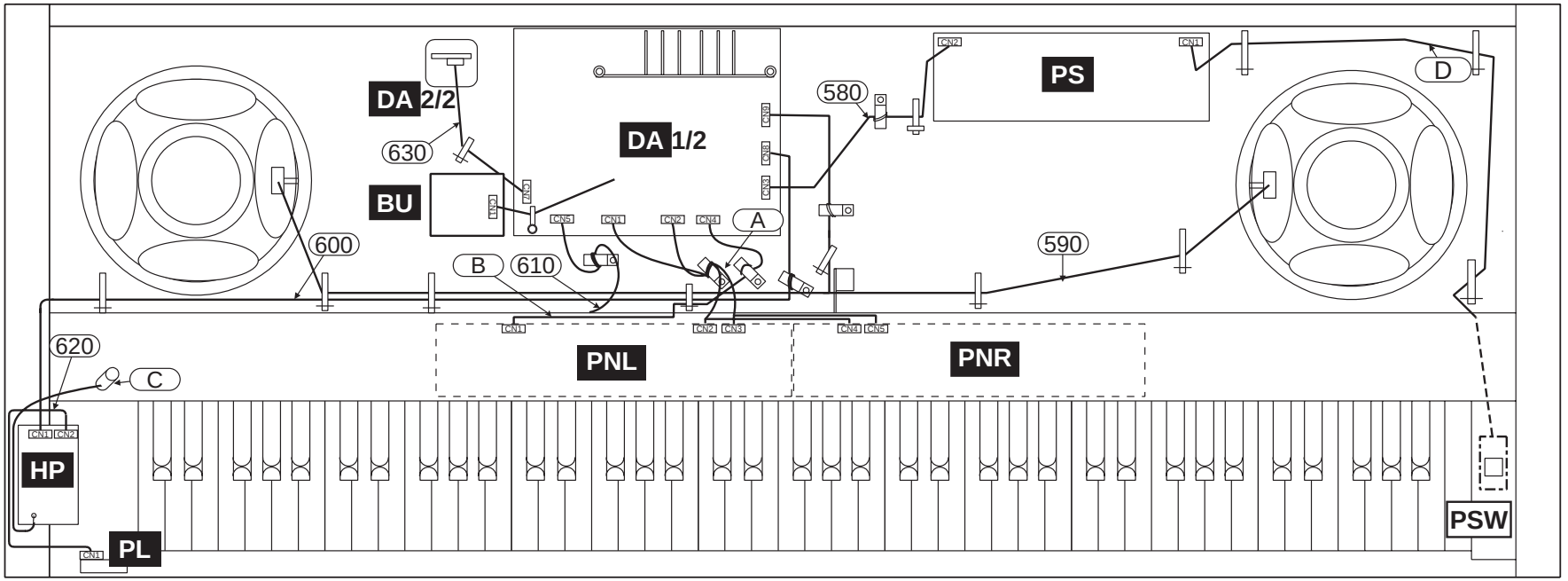


⓳ [SOFT] Pedal
⓴ [SOSTENUTO] Pedal
㉑ [DAMPER] Pedal

• Lower Panel



㉒ PEDAL JACK



NOTE 1) THE MEANING OF SYMBOLS

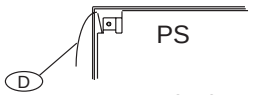
: CORD BINDER

: FERRITE CORE

: CODE BINDER

: CONNECTOR DIRECTION

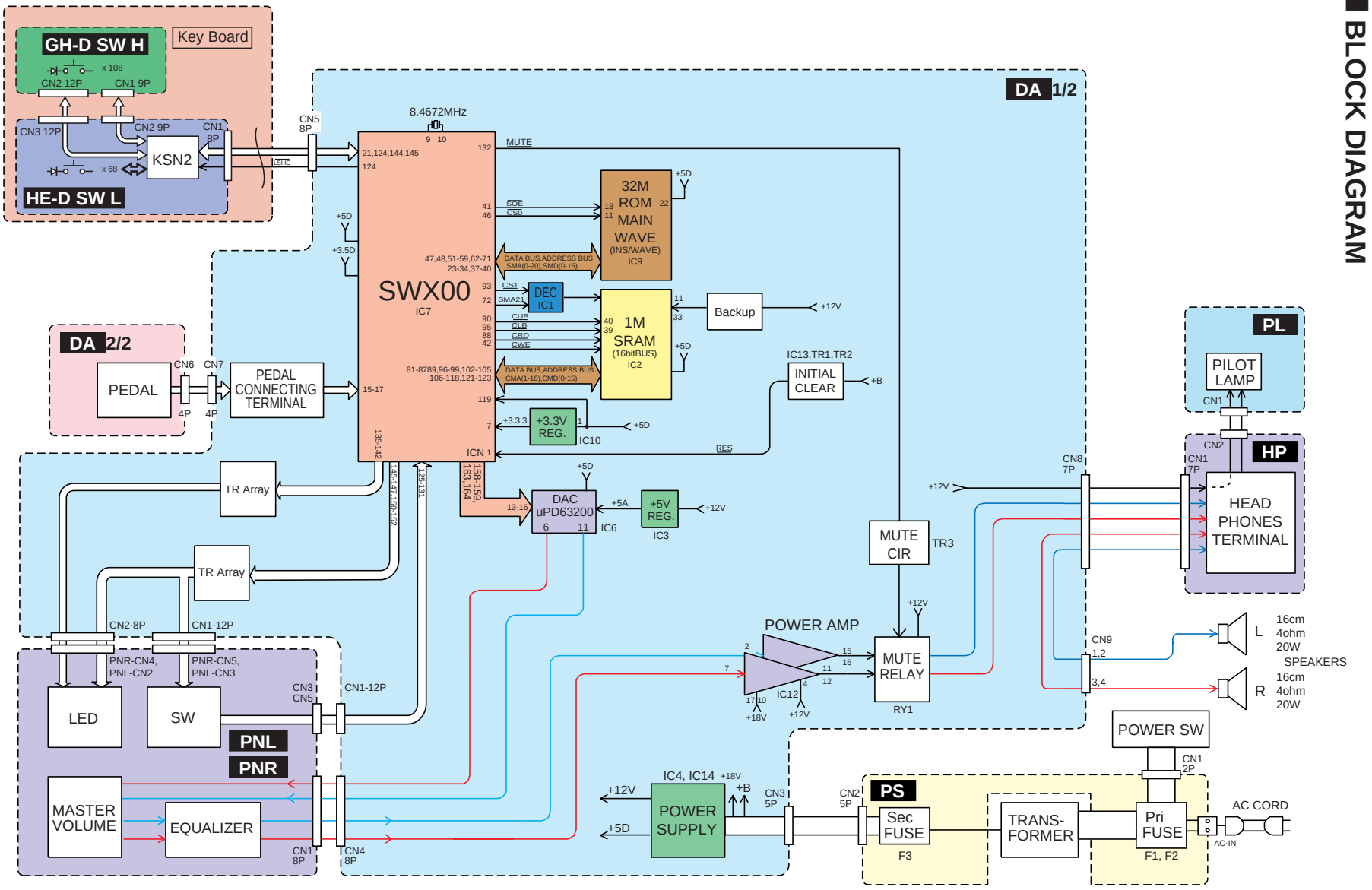
NOTE 2) D WIRE HARNESS SHALL BE AROUND AS THE FOLLOWING DRAWING. (U/C MODEL ONLY)



REAR VIEW OF POWER SUPPLY

LOCATION	PART NAME	PIN NUMBER	DESTINATION	NOTE
580	POWER SUPLLY-LF WIRE HARNESS	5	DA 1/2-CN3 ~ PS-CN2	
590	SP-LF WIRE HARNESS	4	DA 1/2-CN9 ~ SP	
600	HP-LF WIRE HARNESS	7	DA 1/2-CN8 ~ HP-CN1	
610	MK-LF WIRE HARNESS	8	DA 1/2-CN5 ~ KEY BOARD	
620	KRD-KRD WIRE HARNESS	2	HP-CN2 ~ PL-CN1	
630	KRD-KRD WIRE HARNESS	4	DA 1/2-CN7 ~ DA 2/2-CN6	
A	PN-LF WIRE HARNESS	-	DA 1/2-CN2 ~ PNL-CN2 DA 1/2-CN1 ~ PNL-CN3	
B	VOL WIRE HARNESS	8	DA 1/2-CN4 ~ PNL-CN1	
C	GROUND WIRE HARNESS	1	HP-FG ~ KEY BED	
D	P-SW WIRE HARNESS	2	PS-CN1 ~ POWER SW	

■ BLOCK DIAGRAM



28CA1-8819305 1

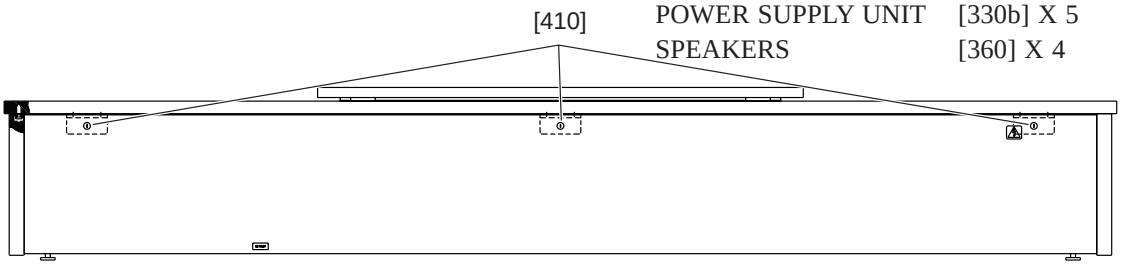
■ DISASSEMBLY PROCEDURE

1. Top Board Assembly (Time required: about 1 min)

1-1 Remove the three (3) screws marked [410], hold top board with both hands, slide it to the front, and then lift it up. (Fig.1)

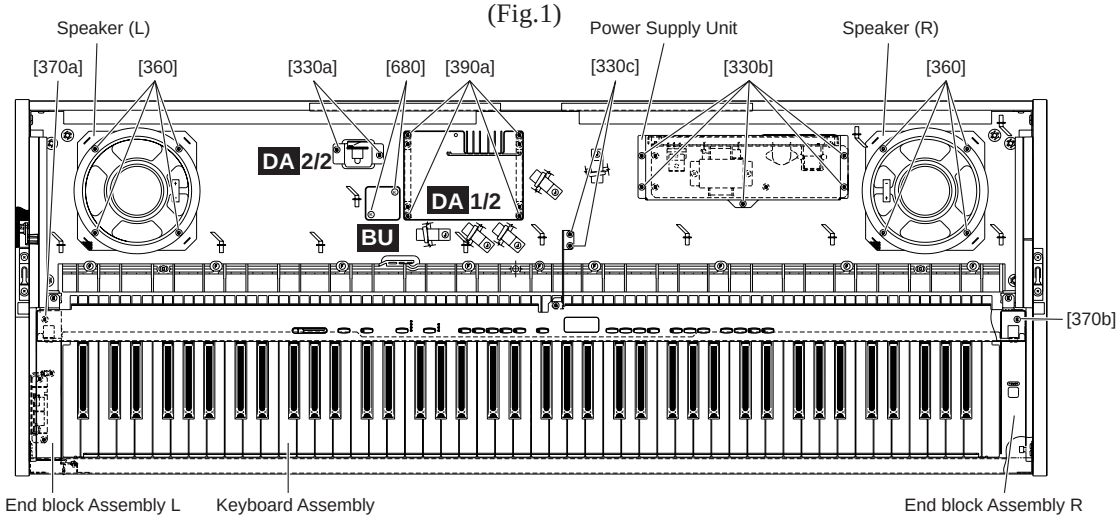
* After removing the top board assembly, remove the following screw. Each circuit board can then be removed. (Fig.2)

DA 1/2 Circuit Board	[390a] X 4
DA 2/2 Circuit Board	[330a] X 2
BU Circuit Board	[680] X 2
POWER SUPPLY UNIT	[330b] X 5
SPEAKERS	[360] X 4



[410]: Twss Head Screw 4.0X20 NFZN2BL (VB934000)

(Fig.1)

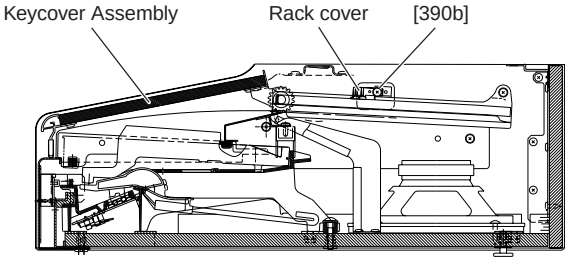


[330]: Bind Head Tapping Screw-1 3.5X12 MFZN2BL (EP040230)
[360]: Truss Head Tapping Screw-1 4X20 MFZN2Y (20338800)
[370]: Bind Head Tapping Screw-B 4.0X10 MFZN2BL (EP600240)
[390]: Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600190)
[680]: Bind Head Tapping Screw-1 3.5X20 MFZN2Y (EP030470)

(Fig.2)

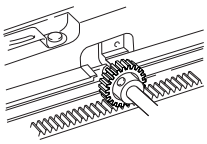
2. Key Cover Assembly (Time required: about 2 min)

2-1 Remove the top board assembly. (See Procedure 1)
2-2 Remove the screw marked [390b], remove the rack cover. (See Fig.3)
2-3 After removing the rack cover, slide the linkage bar to the notch location and then lift it up to remove it. (See Figs.3-1, 3-2, 3-3.)



[390]: Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600190)

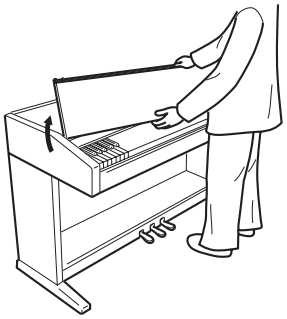
(Fig.3)



(Fig.3-1)



(Fig.3-2)

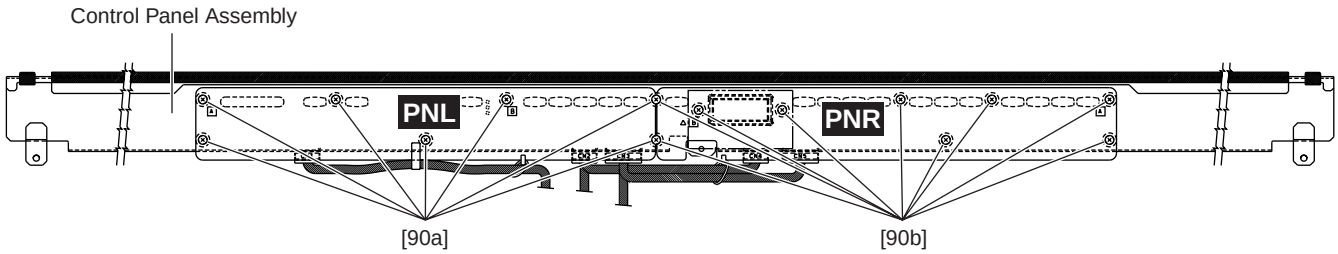


(Fig.3-3)

3. PNL Circuit Board, PNR Circuit Board (Time required: about 5 min)

3-1 Remove the top board assembly. (See Procedure 1)
3-2 Remove the key cover assembly. (See Procedure 2)
3-3 Remove the two (2) screws marked [330] and the two (2) screws marked [370]. The control panel assembly can then be removed. (Fig.2)

* To remove these units, remove the screw below. (Fig.4)
PNL Circuit Board [90a] X 7
PNR Circuit Board [90b] X 9

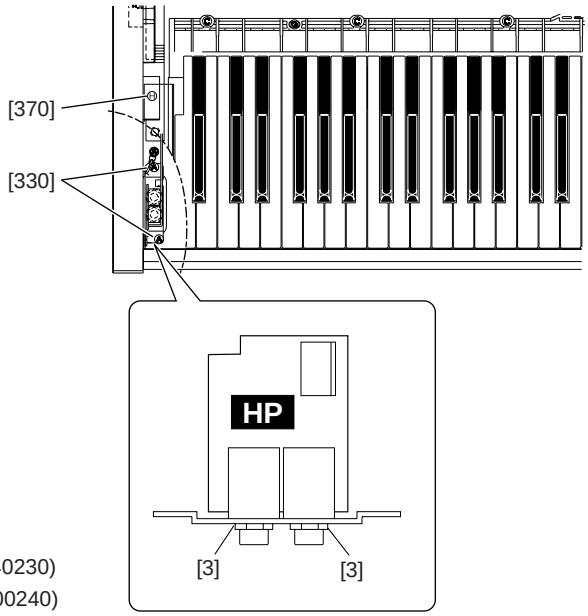


[90]: Bind Head Tapping Screw-B 3.6X6 MFZN2BL (EP600230) (Parts list: Control Panel Assembly [90])

(Fig.4)

4. HP Circuit Board (Time required: about 5 min)

4-1 Remove the top board assembly. (See Procedure 1)
4-2 Remove the key cover assembly. (See Procedure 2)
4-3 Remove the control panel assembly. (See Procedure 3-3)
4-4 Remove the screw marked [370]. The left end block assembly can then be removed. (Fig.5)
4-5 Remove the two (2) screws marked [330]. The headphones jack assembly can then be removed. (Fig.5)
4-6 Remove the two (2) nuts marked [3]. The phone jack holder can then be removed from HP circuit board. (Fig.5)

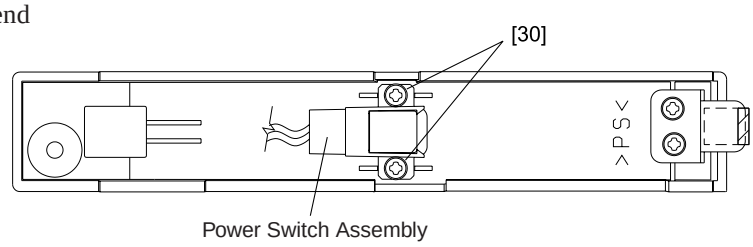


[3]: Hexagonal Nut 12.0 14x2 MFZN2BL (VB508600)
[330]: Bind Head Tapping Screw-1 3.5X12 MFZN2BL (EP040230)
[370]: Bind Head Tapping Screw-B 4.0X10 MFZN2BL (EP600240)

(Fig.5)

5. PSW Assembly (Time required: about 5 min)

5-1 Remove the top board assembly. (See Procedure 1)
5-2 Remove the key cover assembly. (See Procedure 2)
5-3 Remove the control panel assembly. (See Procedure 3-3)
5-4 Remove the screw marked [370b]. The right end block assembly can then be removed. (Fig.2)
5-5 Remove the two (2) screws marked [30]. The power switch assembly can then be removed. (Fig.6)



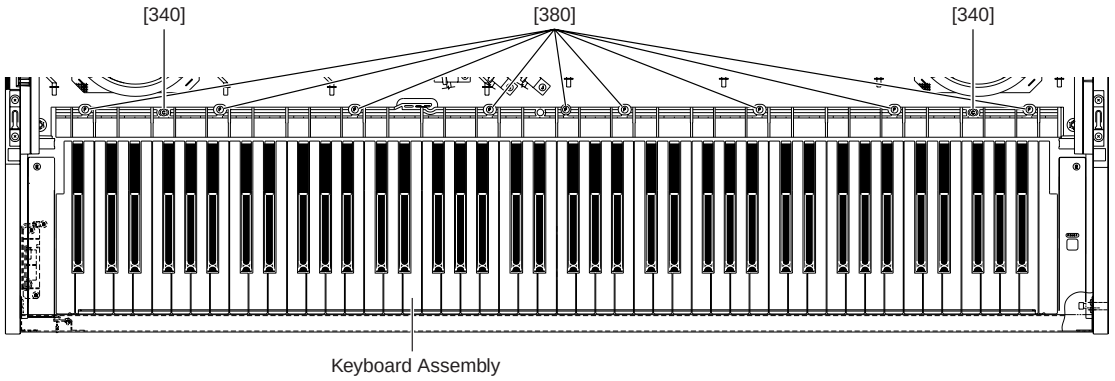
[30]: Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600190)
[370]: Bind Head Tapping Screw-B 4.0X10 MFZN2BL (EP600240)

(Fig.6)

6. Keyboard Assembly (Time required: about 5 min)

6-1 Remove the top board assembly. (See Procedure 1)
6-2 Remove the key cover assembly. (See Procedure 2)
6-3 Remove the control panel assembly. (See Procedure 3-3)
6-4 Remove the left end block assembly. (See Procedure 4-4)
6-5 Remove the right end block assembly. (See Procedure 5-4)
6-6 Remove the nine (9) screws marked [380] and the two (2) screws marked [340]. The keyboard assembly can then be removed. (Fig.7)

* Slide the keyboard unit backward, lift the front side at the center of the frame, and raise up the keyboard assembly to remove.
* Removing the keyboard assembly without rising up can cause the keyboard unit twisted and the frame can be damaged.
* When reinstalling, fasten the screw marked [340], then the screw marked [380]. In addition, when installing the keyboard, make sure that the wire bundle, etc., has not been pinched or caught, and then tighten the screw.

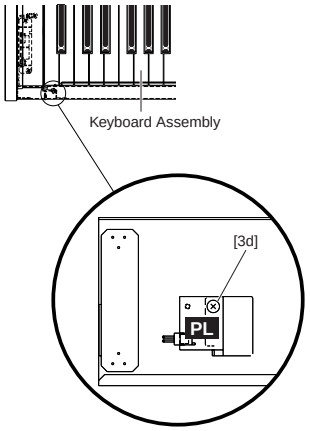


[340]: Bind Head Tapping Screw-1 4.0X14 MFZN2Y (EP040230)
[380]: Pan Head Screw 5.0X25 MFZN2Y PW (VV040700)

(Fig.7)

7. PL Circuit Board (Time required: about 6 min)

7-1 Remove the top board assembly. (See Procedure 1)
7-2 Remove the key cover assembly. (See Procedure 2)
7-3 Remove the control panel assembly. (See Procedure 3-3)
7-4 Remove the keyboard assembly. (See Procedure 6)
7-5 Remove the screw marked [3d]. The PL circuit board can then be removed. (Fig.8)

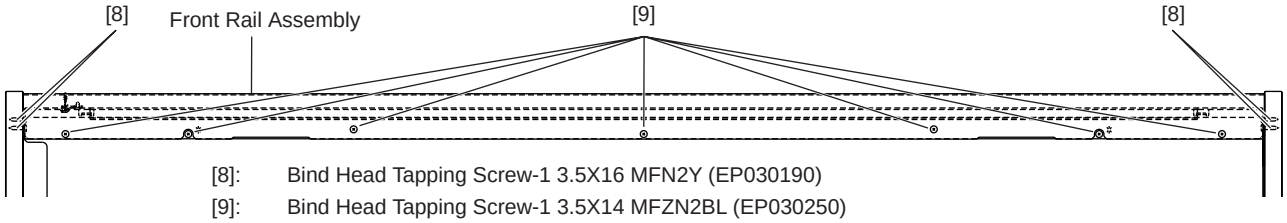


(Fig.8)

[3d]: Bind Head Tapping Screw-B 3.0X6 MFZN2BL (EP600230)

8. Front Rail Assembly (Time required: about 6 min)

8-1 Remove the top board assembly. (See Procedure 1)
8-2 Remove the key cover assembly. (See Procedure 2)
8-3 Remove the control panel assembly. (See Procedure 3-3)
8-4 Remove the keyboard assembly. (See Procedure 6)
8-5 Remove the four (4) screws marked [8] and the seven (7) screws marked [9]. The front rail assembly can then be removed. (Fig.9)



[8]: Bind Head Tapping Screw-1 3.5X16 MFN2Y (EP030190)
[9]: Bind Head Tapping Screw-1 3.5X14 MFZN2BL (EP030250)

(Fig.9)

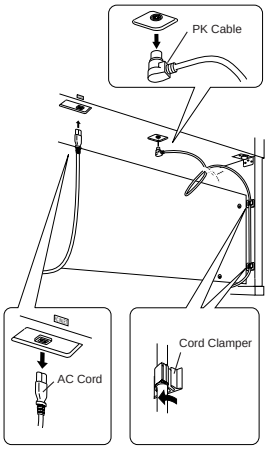
9. Main Unit (Time required: about 3 min)

9-1 Disconnect the PK cable. (Fig.10)

9-2 Disconnect the AC cord. (Fig.10)

9-3 Remove the four (4) screws marked [S3]. Lift the main unit up slightly and then slide it to backward and then lift it up. (Fig.11, 11-1)

* Be sure to place your hands at least 15cm from either end of the main unit and take care not to pinch your fingers when removing it.



(Fig.10)

10. Rack Assembly (Time required: about 10 min)

10-1 Remove the top board assembly. (See Procedure 1)

10-2 Remove the key cover assembly. (See Procedure 2)

10-3 Remove the control panel assembly. (See Procedure 3-3)

10-4 Remove the keyboard assembly. (See Procedure 6)

10-5 Remove the six (6) screw marked [330c]. The rack assembly can then be removed. (Fig.12)

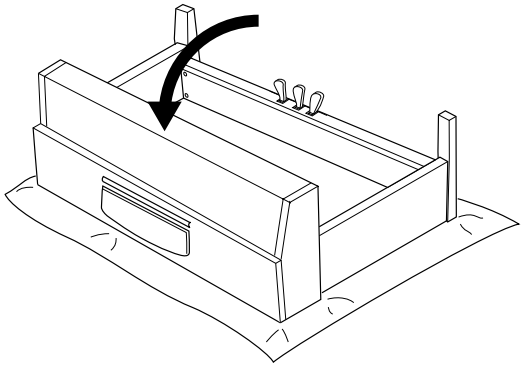
* The removing procedures for left and right rack assembly are same.

11. Pedal Assembly (Time required: about 3 min)

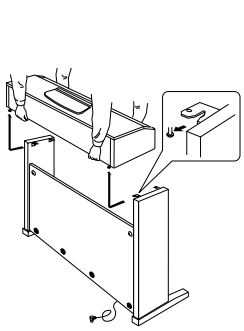
11-1 Disconnect the PK cable. (Fig.10)

11-2 Place the back of the unit on a soft blanket.

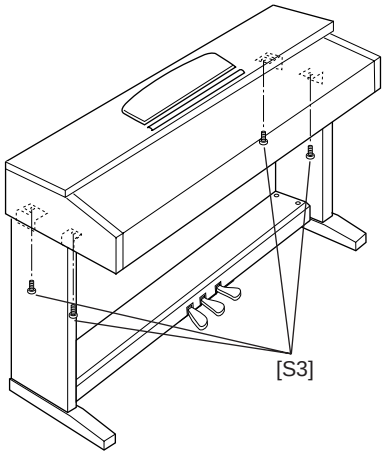
11-3 Remove the eight (8) screws marked [30]. The pedal assembly can then be removed. (Fig.13)



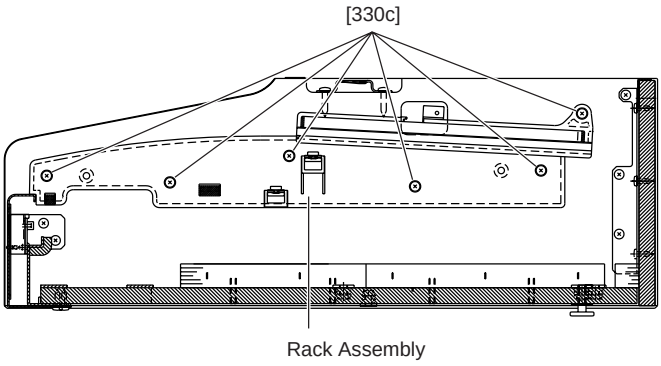
(Fig.13)



(Fig.11)



(Fig.11-1)



[330c]: Bind Head Tapping Screw-1 3.5X12 MFZN2BL (EP030340)

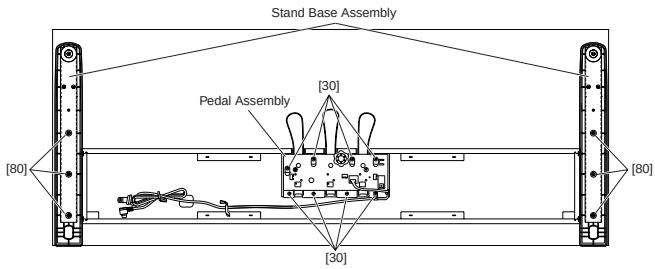
(Fig.12)

12. Stand Base Assembly (Time required: about 5 min)

12-1 Place the back of the unit on a soft blanket. (Fig.13)

12-2 Remove the three (3) screws marked [80]. The stand base assembly can then be removed. (Fig.13-1)

* The removing procedures for left and right stand base assembly are same.



[30]: Bind Head Tapping Screw-1 4.0X14 MFZN2Y (EP040230)

[80]: Pan Head Tapping Screw 4.0X65 MFZN2Y (VV444000)

(Fig.13-1)

13. Disassembling the HED Keyboard (Time required: about 20 min)

* After inserting a round stick (Rod: TX000670) between the frame and keys, remove the circuit boards. (Fig.16)

13-1 Remove the keyboard assembly. (See Procedure 6)

13-2 HE-D SW L circuit board.
Remove the seven (7) screws marked [260a]. The HE-D SW L circuit board can then be removed. (Fig.14)

13-3 GH-D SW H circuit board.
Remove the ten (10) screws marked [260b]. The GH-D SW H circuit board can then be removed. (Fig.14)

* Keys can be removed without removing the circuit boards.

* A black key can be removed after both adjacent white keys have been removed.

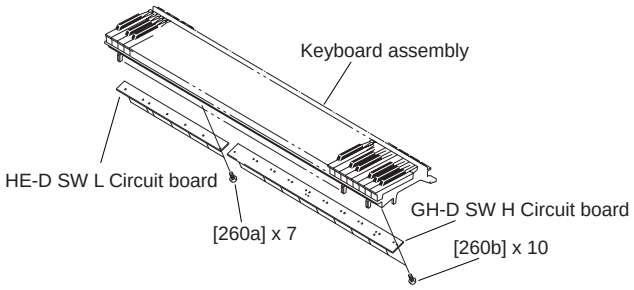
13-4 White Key
Insert a thin plate between the white keys, near the triangle mark around the fulcrum of the key, and press down the stopper marked [A] to remove the key. (Fig.15 and 16)

* Take care not to damage the key spring when removing a key.

* A black key can be removed after both adjacent white keys have been removed.

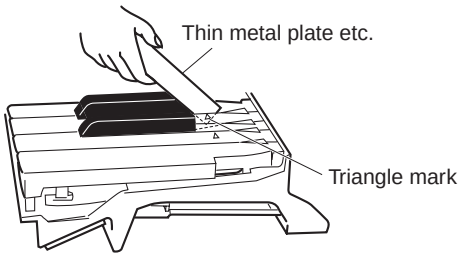
13-5 Hammer, White Key
After a key has been removed, push the key spring down once to take it out of the hook. (Fig.17)
Place the GH keyboard assembly upside down and peel away then stopper L88. The hammer of the white key can then be removed. (Fig.18)

* The hammer of a black key can be removed in the same manner.

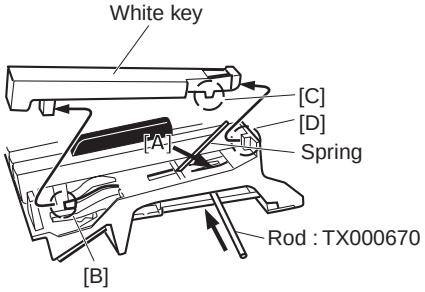


[260]: Bind Head Tapping Screw-P 3.0X10 MFZN2 (VT413400)

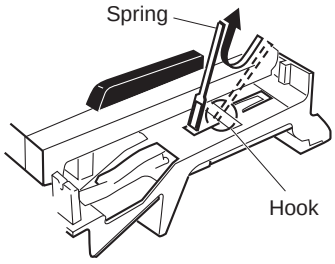
(Fig.14)



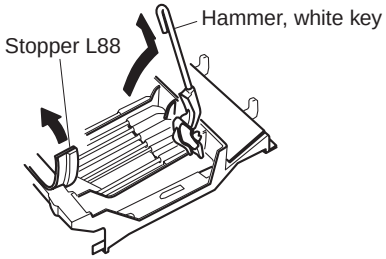
(Fig.15)



(Fig.16)



(Fig. 17)



(Fig.18)

14. Assembling the HED Keyboard

14-1 Hammer of White (Black) Key
Place the keyboard assembly upside down, insert a hammer assembly into the frame, and put the stopper L88 on. (Fig.19)

* There are four kinds of hammers that differ in weight.

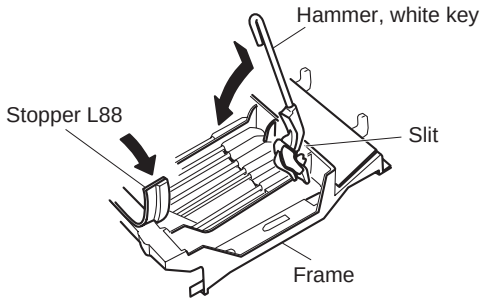
14-2 Key Spring
Place the keyboard assembly right side up, and fix a key spring to the frame by setting it at the slit and pushing it down once. (Fig.20)

* Be careful of the direction of the spring.

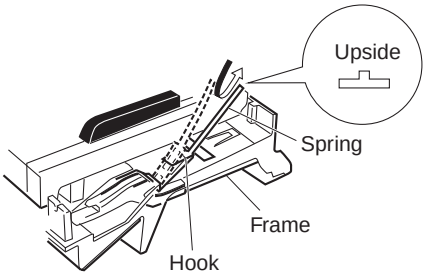
14-3 White (Black) Key
After a key has been fit to part [F] and the key guide, make sure that the spring is fixed to the key. Then press part [E] of the key down. (Fig.21)

14-4 HE-D SW L circuit board.
Tighten the seven [7] screws marked [260a] to fix the HE-D SW L circuit board. (Fig.14)

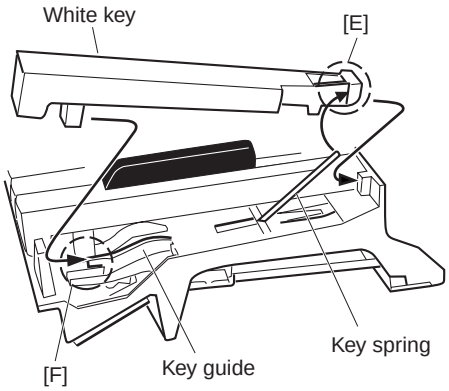
14-5 GH-D SW H circuit board.
Tighten the ten [10] screws marked [260b] to fix the GH-D SW H circuit board. Set the slits of the rubber contact at the marks on the frame. (Fig.14)



(Fig.19)



(Fig.20)



(Fig.21)

■ LSI PIN DESCRIPTION

• **HG73C205AFD** (XU947C00) **SWX00B** TONE GENERATOR

DA1/2: IC7

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	ICN	I	Initial clear	85	CMA3	O	Program address bus
2	RFCLKI	I	PLL Clock	86	CMA8	O	
3	TM2	I	PLL Control	87	CMA2	O	
4	AVDD_PLL		Power supply	88	CRD	O	read signal
5	AVSS_PLL		Ground	89	CMA1	O	Program address bus
6	MODE0	I	SWX dual mode	90	CUB	O	high byte effective signal
7	VCC7		Power supply	91	VCC91		Power supply
8	GND8		Ground	92	GHND92		Ground
9	XIN	I	crystal oscillator	93	CS1	O	CS signal
10	XOUT	O	crystal oscillator	94	CMA0	O	Program address bus
11	MODE1	I	SWX separate mode	95	CLB	O	low byte effective signal
12	TEST0	I	TEST pin	96	CMA12	O	Program address bus
13	TESTON	I	TEST pin	97	CMA11	O	
14	AN0-P40	I	A/D converter	98	CMA10	O	
15	AN1-P41	I		99	CMA9	O	
16	AN2-P42	I		100	GND100		Ground
17	AN3-P43	I		101	CWE	O	write signal
18	AVDD_AN		Power supply	102	CMA16	O	Program address bus
19	AVSS_AN		Ground	103	CMA15	O	
20	TXD0	O	for MIDI or TO-HOST	104	CMA14	O	
21	TXD1	O	for MIDI	105	CMA13	O	
22	EXCLK	I	Crystal oscillator	106	CMD8	I/O	Program memory Data bus
23	SMD11	I/O	Wave memory data bus	107	CMD7	I/O	
24	SMD4	I/O		108	CMD9	I/O	
25	SMD3	I/O		109	CMD6	I/O	
26	SMD12	I/O		110	CMD10	I/O	
27	SMD10	I/O		111	CMD5	I/O	
28	SMD5	I/O		112	CMD11	I/O	
29	SMD2	I/O		113	CMD4	I/O	
30	SMD13	I/O		114	CMD12	I/O	
31	SMD9	I/O		115	CMD3	I/O	
32	SMD6	I/O		116	CMD13	I/O	
33	SMD1	I/O		117	CMD2	I/O	
34	SMD14	I/O		118	CMD14	I/O	
35	VCC35		Power supply	119	VCC119		Power supply
36	GND36		Ground	120	GND115		Ground
37	SMD8	I/O	Wave memory data bus	121	CMD1	I/O	Program memory Data bus
38	SMD7	I/O		122	CMD15	I/O	
39	SMD0	I/O		123	CMD0	I/O	
40	SMD15	I/O		124	CMA21	O	Program address bus
41	SOE	O	read signal	125	PDT15	I/O	SWX access data bus
42	SWE	O	write signal	126	PDT14	I/O	
43	SRAS	O	RAS signal	127	PDT13	I/O	
44	SCAS	O	CAS signal	128	PDT12	I/O	
45	REFRESH	O	REFRESH signal	129	PDT11	I/O	
46	CS0	O	CS signal	130	PDT10	I/O	
47	SMA0	O	Memory address bus	131	PDT9	I/O	
48	SMA16	O		132	PDT8	I/O	
49	VCC49		Power supply	133	VCC133		Power supply
50	GND50		Ground	134	GND134		Ground
51	SMA1	O	Memory address bus	135	PDT7	I/O	SWX access data bus
52	SMA15	O		136	PDT6	I/O	
53	SMA2	O		137	PDT5	I/O	
54	SMA14	O		138	PDT4	I/O	
55	SMA3	O		139	PDT3	I/O	
56	SMA13	O		140	PDT2	I/O	
57	SMA4	O		141	PDT1	I/O	
58	SMA12	O		142	PDT0	I/O	
59	SMA5	O		143	VCA143		Power supply
60	GND60		Ground	144	GND144		Ground
61	VCC61		Power supply	145	PAD2	I	SWX access address bus
62	SMA11	O	Memory address bus	146	PAD1	I	
63	SMA6	O		147	PAD0	I	
64	SMA10	O		148	VCC148		Power supply
65	SMA7	O		149	GND149		Ground
66	SMA9	O		150	PCS	I	Chip select
67	SMA17	O		151	PWR	I	write enable
68	SMA8	O		152	PRD	I	read enable
69	SMA18	O		153	RXD0	I	for Midi or TO-HOST
70	SMA19	O		154	RXD1	I	for Midi or Key scan
71	SMA20	O		155	SCLKI	I	EXT Clock
72	SMA21	O		156	ADIN	I	A/D converter
73	SMA22	O		157	ADLR	O	A/D converter LR clock
74	SMA23	O		158	DO0	O	DAC
75	CMA20	O	Program address bus	159	DO1	O	
76	CMA19	O		160	SYSCLK	O	1/2 clock
77	VCC77		Power supply	161	VCC161		Power supply
78	GND78	O	Ground	162	GND162		Ground
79	CMA18	O	Program address bus	163	WCLK	O	for DAC LR clock
80	CMA17	O		164	QCLK	O	1/12 clock
81	CMA5	O		165	BCLK	O	IIS-DAC clock
82	CMA6	O		166	SYI	I	Synch signal
83	CMA4	O		167	IRQ0	I	Interrupt request
84	CMA7	O		168	NMI	I	

● μ**PD63200GS-E1** (XP867A00) **DAC** (Digital to Analog Converter) DA1/2: IC6

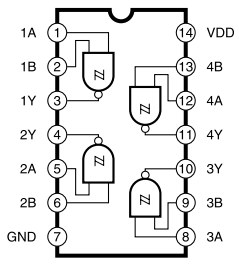
PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	4/8F	I	4/8 Fs selection	9	R. REF		Channel R voltage reference
2	D. GND		Digital ground	10	L. REF		Channel L voltage reference
3	16 BIT	I	16 bit/18 bit selection	11	L. OUT	O	Channel L output
4	D. VDD		Digital power supply	12	A. GND		Analog ground
5	A. GND		Analog ground	13	WDCK	I	Word clock
6	R. OUT	O	Channel R output	14	RSI	I	Channel R series input
7	A. VDD		Analog power supply	15	SI/LSI	I	Series input/Channel L series input
8	A. VDD			16	CLK	I	Clock

● **YMZ702-D** (XR632A00) **KSN2** (Key Scanner) HE-D SW L

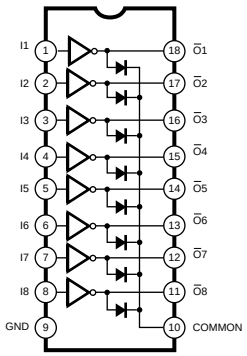
PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	BK5	O	Key block (open drein)	21	GND		Ground
2	BK4	O		22	VDD		Power supply
3	BK3	O		23	SO	O	Serial data
4	BK2	O		24	ACK	I	Acknowledge/mode select
5	BK1	O		25	XCK	I	Clock for serial data
6	BK0	O		26	/IC	I	Initial clear
7	MK15	I	First make contact	27	TST1	I	Test mode
8	MK14	I		28	TST2	I	(L,L: normal mode, others: test)
9	MK13	I		29	XCKINH	I	Inhibit of serial clock
10	MK12	I		30	BK14	O	Key block (open drein)
11	MK11	I		31	BK13	O	
12	MK10	I		32	BK12	O	
13	MK05	I	Second make contact	33	BK11	O	
14	MK04	I		34	BK10	O	
15	MK03	I		35	BK9	O	
16	MK02	I		36	BK8	O	
17	MK01	I		37	BK7	O	
18	MK00	I		38	BK6	O	
19	XIN	I	Crystal osc. input (4 MHz)	39	GND		Ground
20	XOUT	O	Crystal osc. output (4 MHz)	40	VDD		Power supply

■ IC BLOCK DIAGRAM

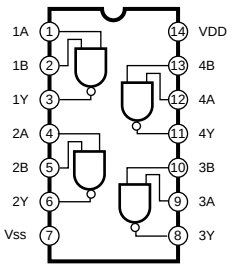
● **MM74HC132SJX** (XY352A00)
Quad 2-Input NAND Schmitt trigger
DA1/2: IC13



● **TD62083F-TP1** (XN153A00)
8ch Driver Array
DA1/2: TA1

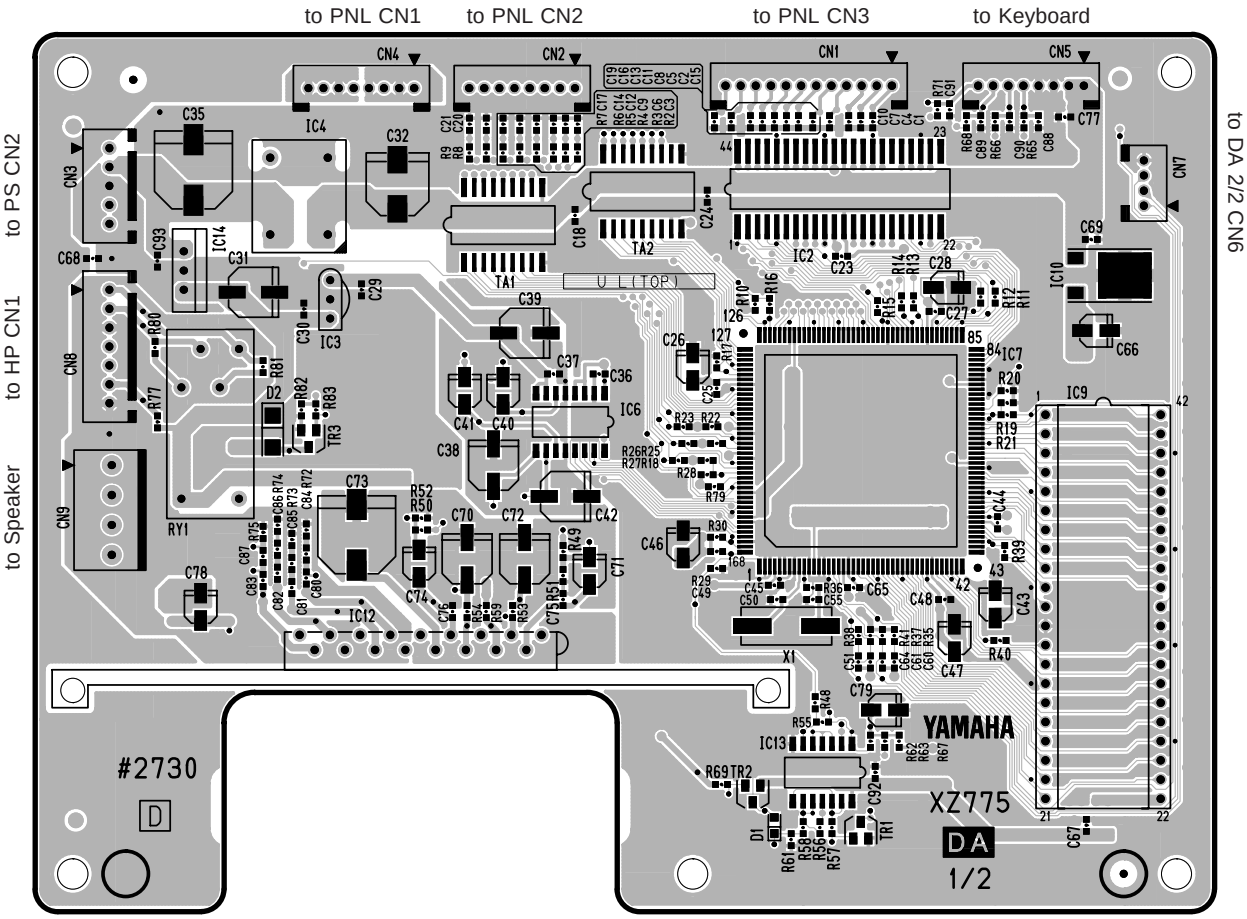


● **HD74HC00FPEL** (XV189A00)
NAND
DA 1/2: IC1



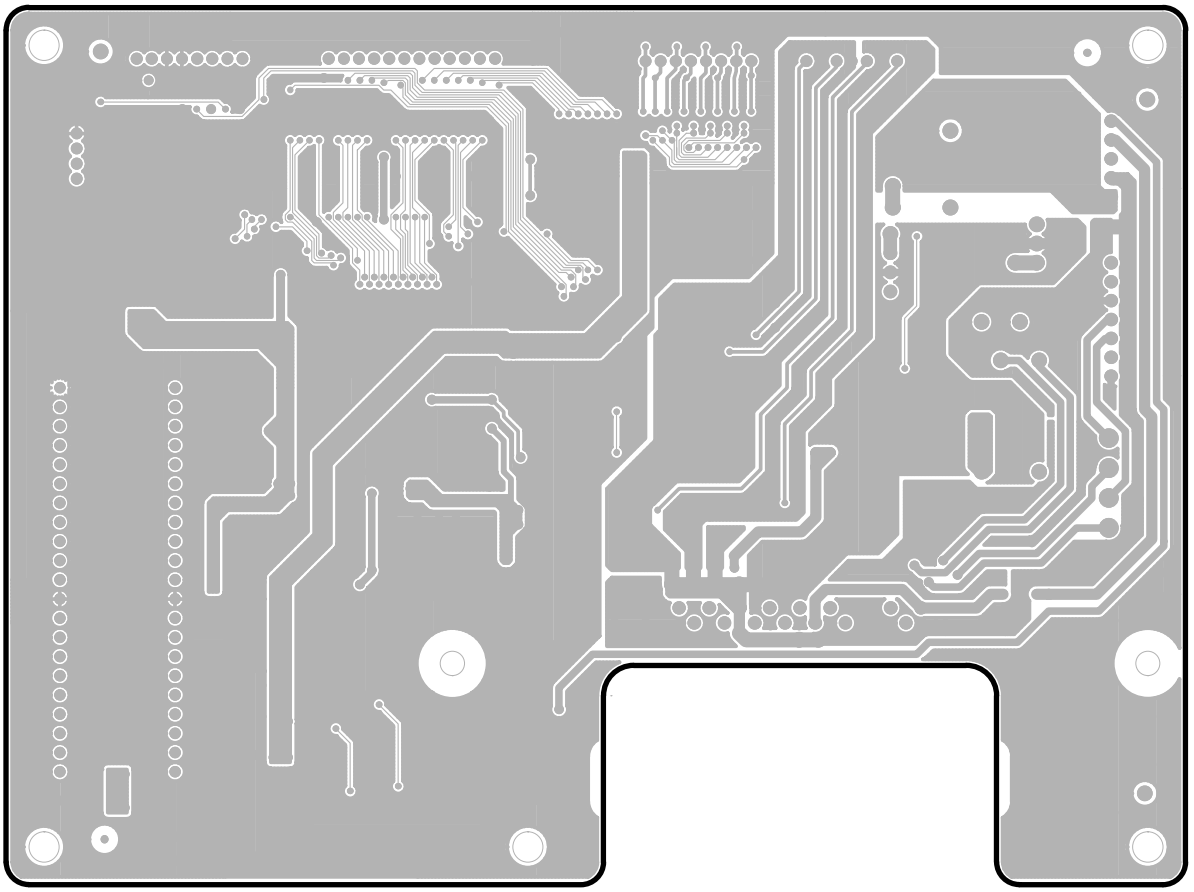
■ CIRCUIT BOARDS

• DA 1/2 Circuit Board



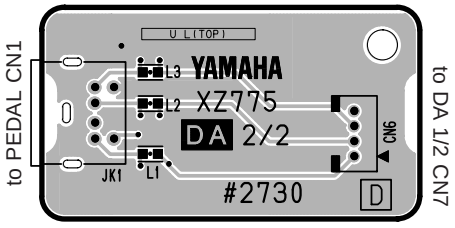
DA 1/2: 2NA-V737310 ⚠3

Note: See parts list for details of circuit board component parts.

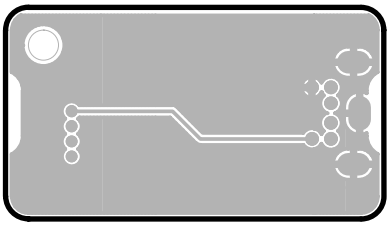


Pattern side

- **DA 2/2 Circuit Board**



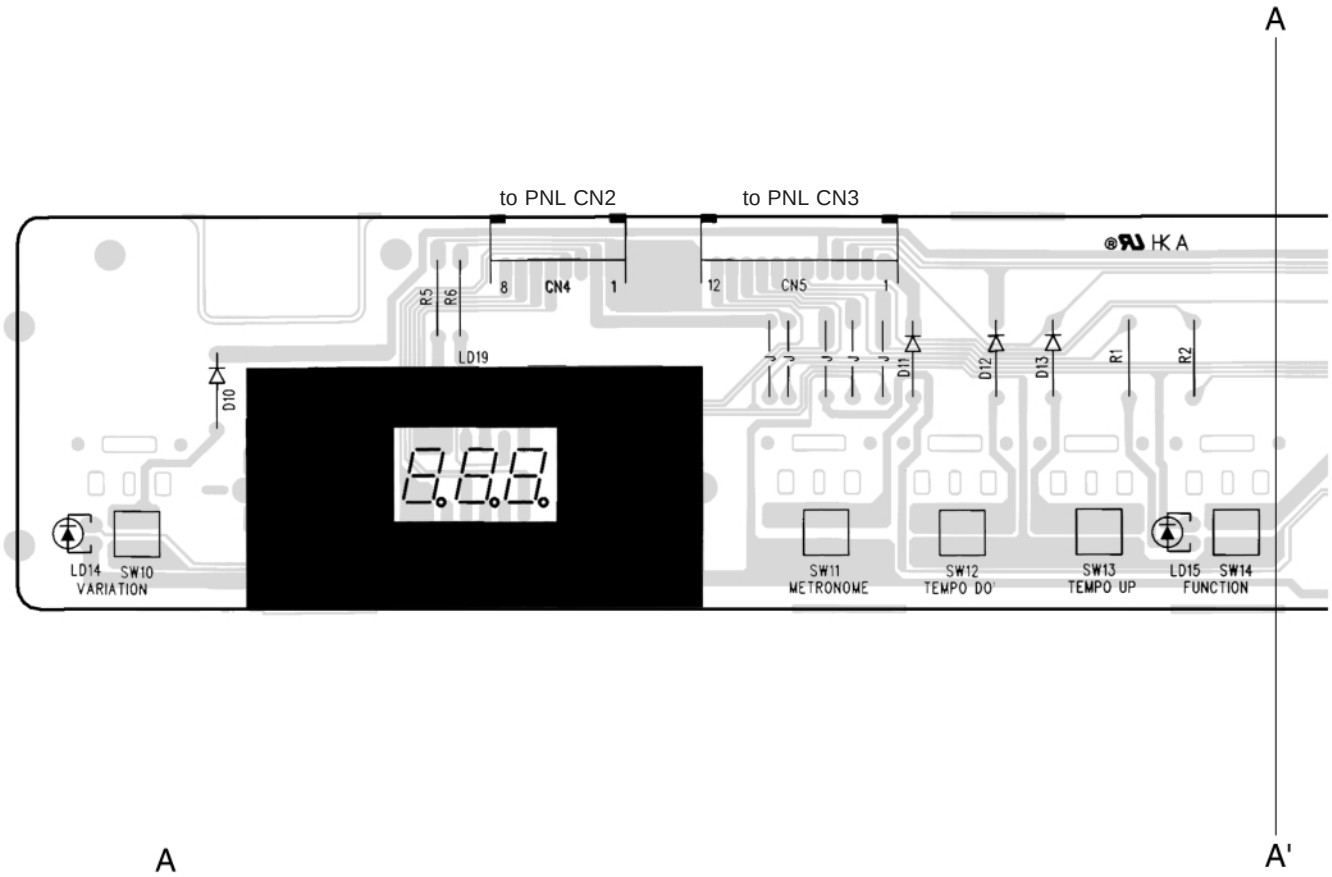
Component side

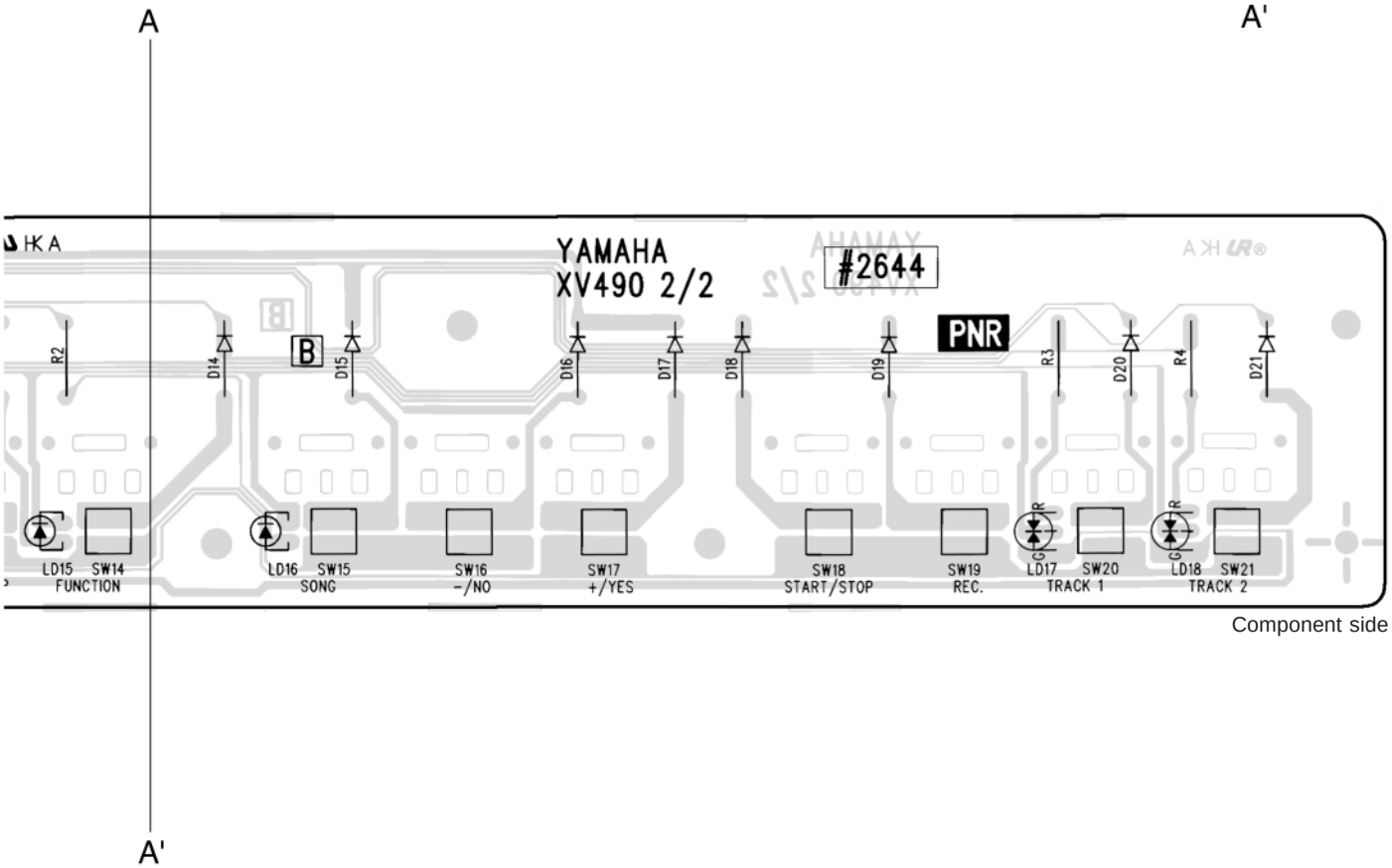


Pattern side

DA 1/2: 2NA-V737310 ⚠3
DA 2/2: 2NA-V737330 ⚠3

- **PNR Circuit Board**

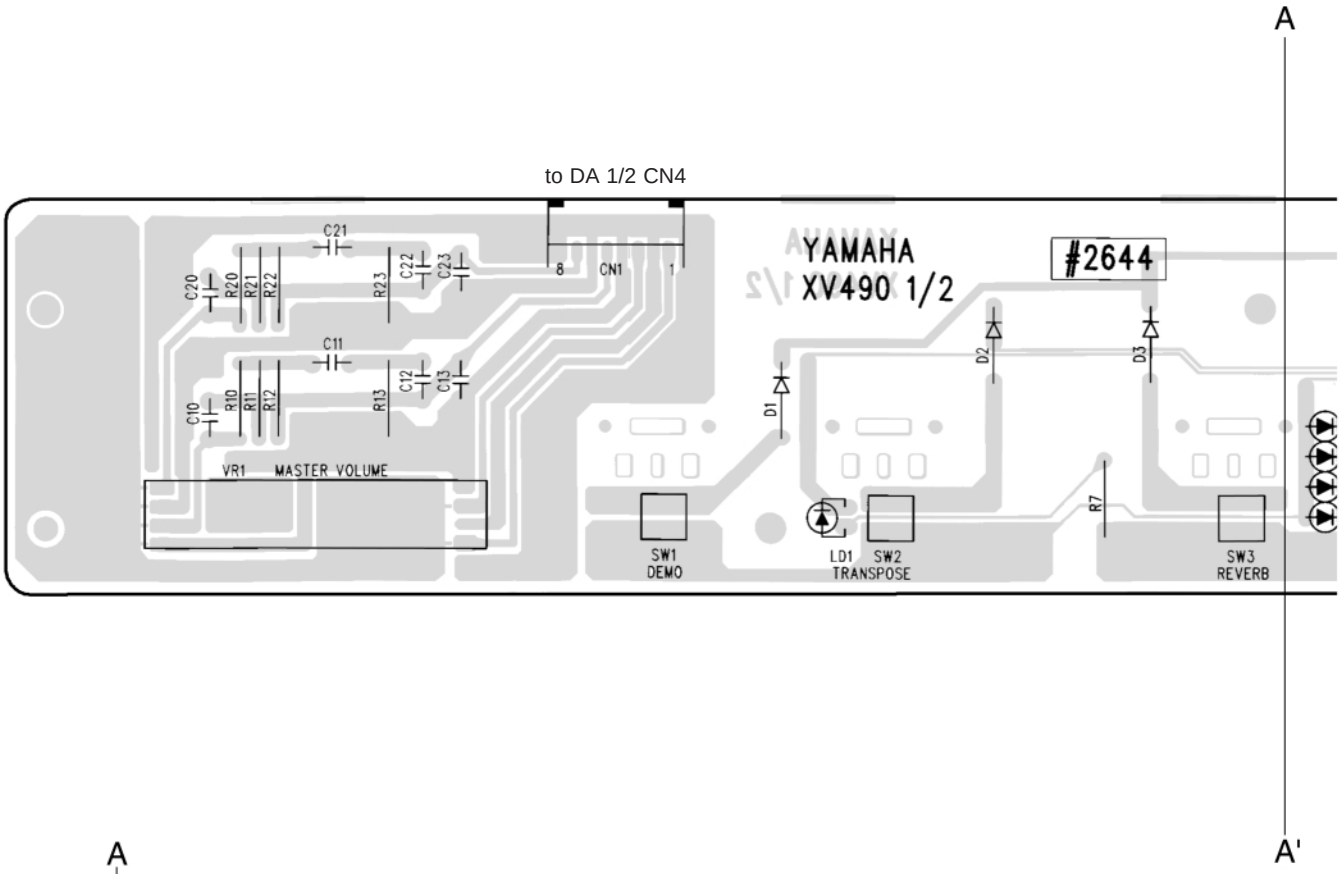


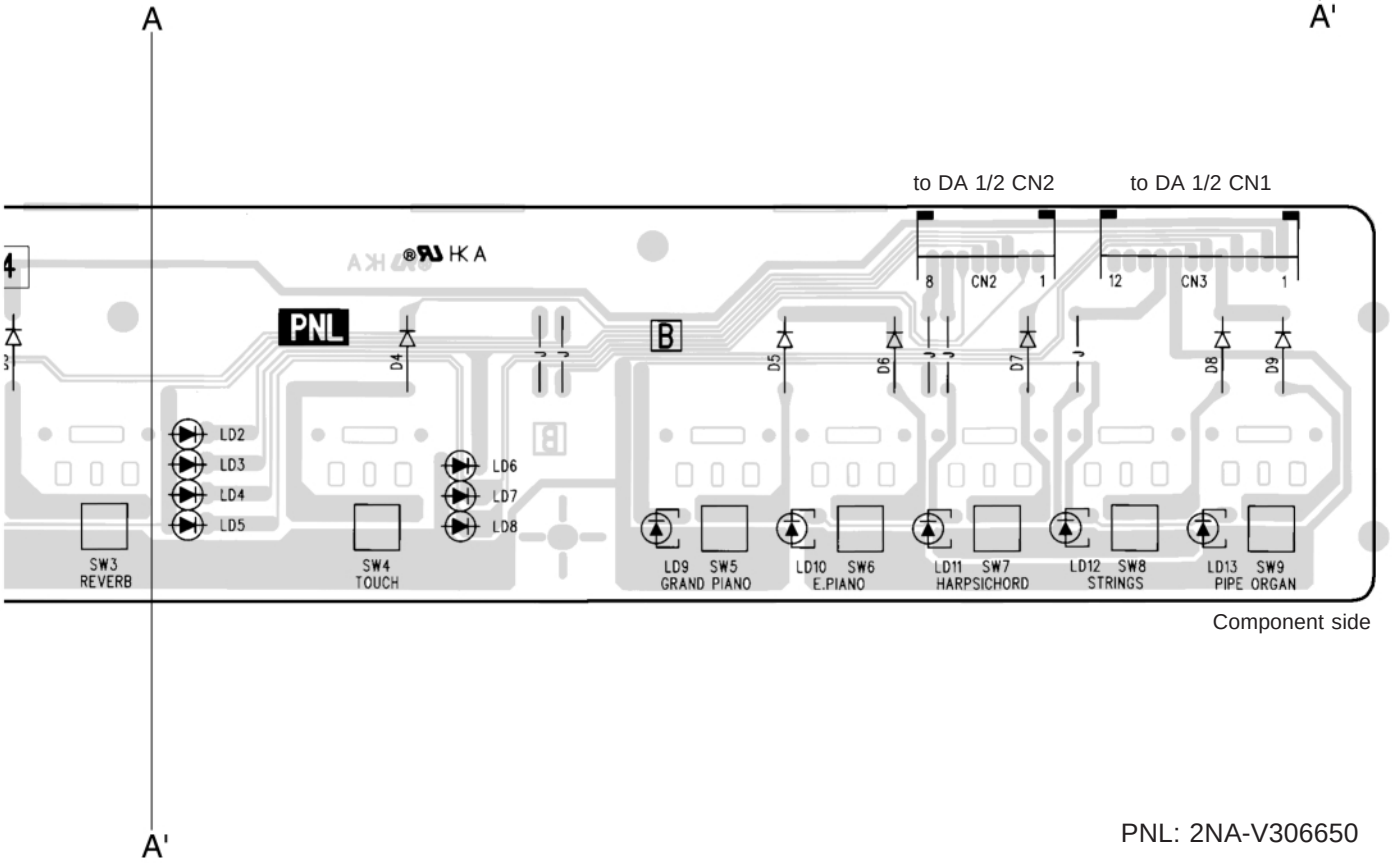


Component side

PNR: 2NA-V306650

- **PNL Circuit Board**



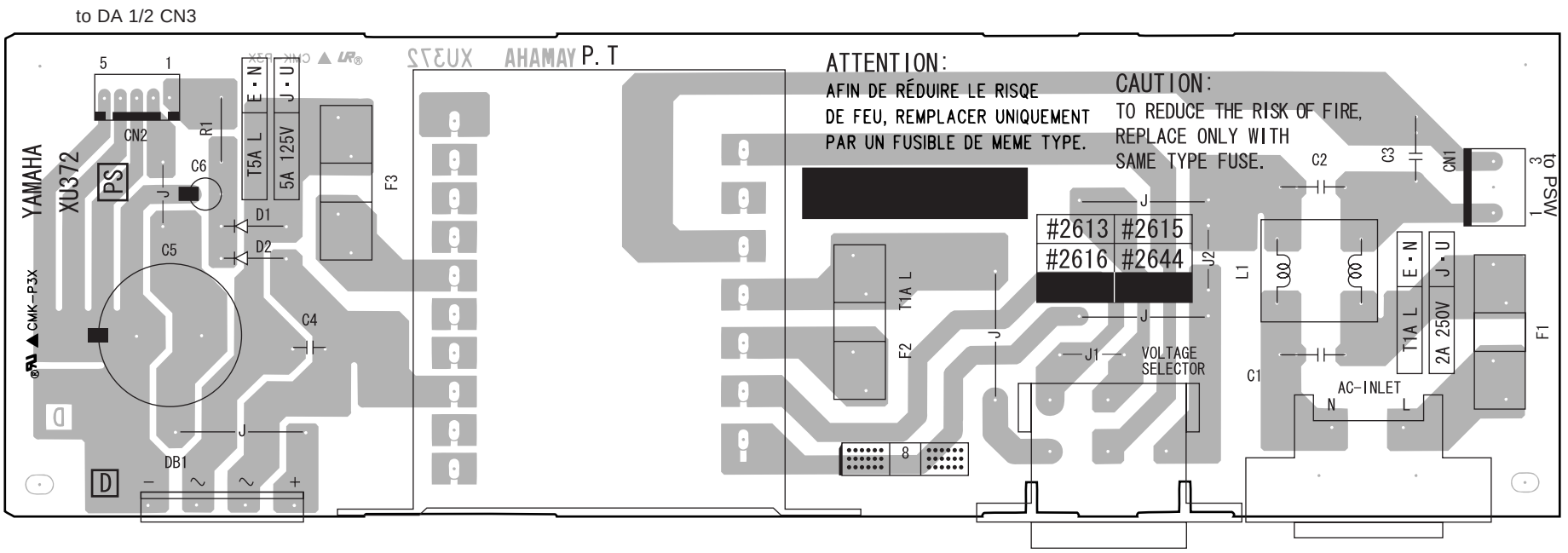


Component side

PNL: 2NA-V306650

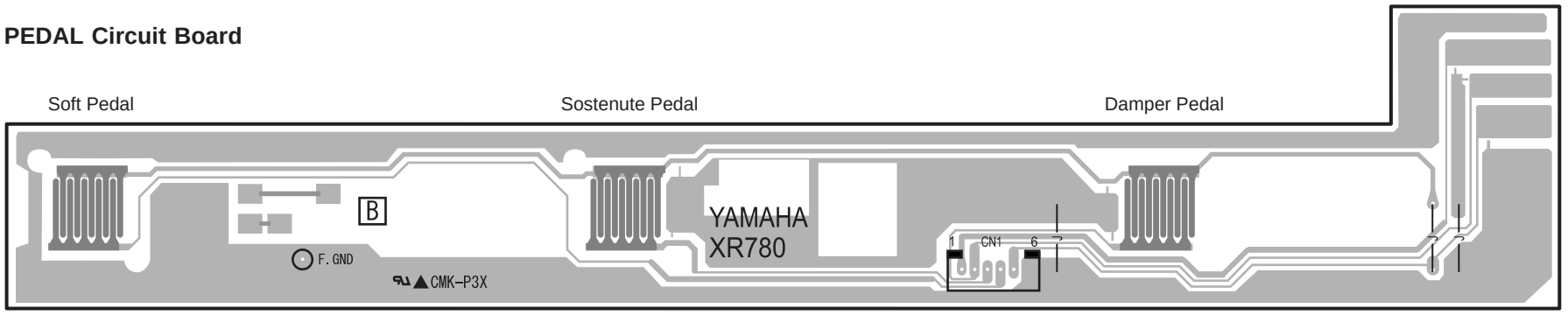
Note: See parts list for details of circuit board component parts.

• PS Circuit Board



Component side

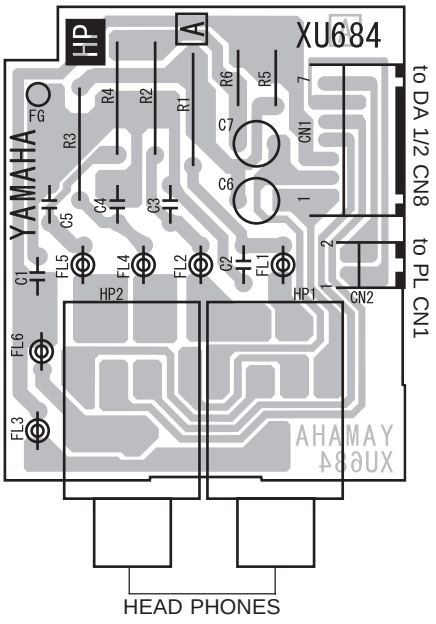
• PEDAL Circuit Board



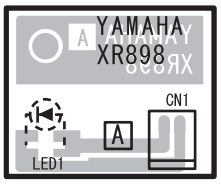
Component side

Note: See parts list for details of circuit board component parts.

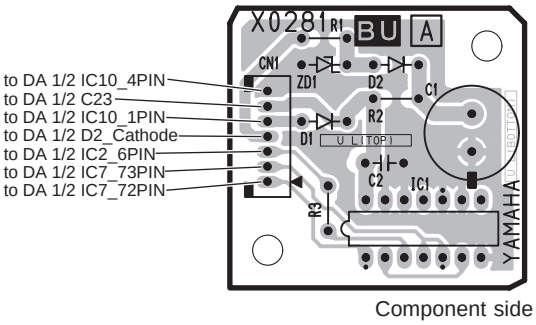
- **HP Circuit Board**



- **PL Circuit Board**



- **BU Circuit Board**



HP: 2NA-V202110 ⚠1
PL: 2NA-VN63740
BU: 2NA-V768220

■ TEST PROGRAM

1. Preparation

To check unit using the test program, the following measuring instruments and jigs will be required:

Level meter (IHF-C curve)

Frequency counter

Notes: Impedance must be 1Mohm or above.

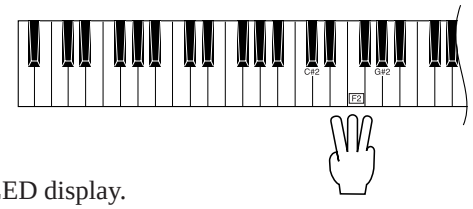
Use stereo plugs, and connect 33-ohm load at PHONES terminal.

Unit setting:

MASTER VOLUME:	Maximum
Tone:	PIANO 1
Pedal:	OFF
Reverb:	OFF
AUX IN, AUX OUT:	Not connected

2. How to enter the Test Program

While depressing the [C2#], [F2] and [G2#] keys, turn the POWER switch ON.



3. Proceeding through the Test Program

When the test program is activated, the sign "rSr" is indicated LED display.

Press [▼] or [▲] buttons of [Tempo] to select the menu of the test program.

Press [START/STOP] buttons to execute the test program.

The LED will display "PAS" if the test result is OK.

The LED will display "nG" if the test result is NG.

In either case, press the [START]/[STOP] button again and proceed to the next item. To return to the test items, press the [DEMO] Button.

4. Test items

No.	LED display for each test	Test Function and Judgment criteria
1	r01: Version	Display version for ROM.
2	r02: ROM Check 1	Check all ROMs, which are connected to CPU.
3	r03: RAM Check 1	Check all RAMs, which are connected to CPU.
11	r11: TG1 Check	Output the sine wave by changing the channels (1ch - 32ch) in sequence from F3 to C6. When a voice switch is depressed, the tone of the voice will sound. After auto scaling is finished, individual keys can be played. (If playing two or more keys simultaneously, the key pressed first takes priority.)
13	r13: PIT	Connect the frequency counter to the [PHONES] terminal. Check that the 441.0 +/- 0.2 Hz sine wave is output.
14	r14: Output R	Check R channel output level (1kHz). AUX OUT L/L+R: Should be lower than R channel by more than 60dB. AUX OUT R: -14dBm PHONES L: Should be lower than R channel by more than 40dB. PHONES R: -19.5dBm

15	r 15: Output L	Check L channel output level (1kHz). AUX OUT L/L+R: -14dBm AUX OUT R: Should be lower than L channel by more than 60dB. PHONES L: -19.5dBm PHONES R: Should be lower than L channel by more than 40dB.
16	r 16: EQ Low	For factory test use only
17	r 17: EQ Mid	For factory test use only
18	r 18: EQ High	For factory test use only
19	r 19: D/A Noise	D/A Noise Checks D/A converter noise. Play a note and check that there is no noise during the PIANO 1 release time. (PAN=center)
20	r20: SW, LED Check	Checks switch and LED's on the panel Play the switch, which is displayed on the LED's. (The order is shown in the Table 1.) A pre-assigned note is output when the switches are pressed. (With some switches, the corresponding LED will light up.)
21	r21: All Panel LED ON	Check that all panel LED's are lit. Executes the test and check that all panel LED's are lit.
31	r31: Soft Pedal Check	Check that C3 is output when pushing the pedal and C4 is output when releasing the pedal, and that the LED display "PAS".
32	r32: Soste. Pedal Check	Check that C3 is output when pushing the pedal and C4 is output when releasing the pedal, and that the LED display "PAS".
33	r33: Damper Pedal Check	Check that C3 is output when pushing the pedal and C4 is output when releasing the pedal, and that the LED display "PAS".
41	r41: ROM Check2	For factory test use only
42	r42: RAM Check2	For factory test use only
46	r46: Back up Check2	For factory test use only
47	r47: Factory Set	Executes the test to erase all the contents of the Flash ROM.
48	r48: Test Mode Exit	Exit from the test program when executing this test.

0dBm = 1mW, 0dBm = 0.775V

• **Table 1**

SW No.	SWITCH	NOTE	LED	SW No.	SWITCH	NOTE	LED
S01	DEMO	C3		S12	FUNCTION	B3	●
S02	TRANSPOSE	C#3	●	S13	TEMPO -	C4	
S03	REVERB	D3	●	S14	TEMPO +	C#4	
S04	TOUCH	D#3	●	S15	PIANO SONG	D4	●
S05	GRAND PIANO	E3	●	S16	SONG SELECT -	D#4	
S06	E. PIANO	F3	●	S17	SONG SELECT +	E4	
S07	HARPSICHORD	F#3	●	S18	RECORDER 1	F4	●
S08	STRINGS	G3	●	S19	RECORDER 2	F#4	●
S09	PIPE ORGAN	G#3	●	S20	START / STOP	G4	
S10	VERIATION	A3	●	S21	REC	G#4	
S11	METRONOME	A#3	●				

■ INSPECTION

1. AUX OUT and PHONES

1-1 Apply a 1kHz, -20dBm sine wave to the AUX IN L/L+R. Confirm that the output meets the following specifications:

AUX OUT L/L+R: -10dBm +/- 2dB
AUX OUT R: -21dBm +/- 2dB
PHONES L: L/L+R less than –60dB
PHONES R: L/L+R less than –40dB

1-2 Apply a 1kHz, -20dBm sine wave to the AUX IN R. Confirm that the output meets the following specifications:

AUX OUT L/L+R: -21dBm +/- 2dB
AUX OUT R: -10dBm +/- 2dB
PHONES L: R less than –60dB
PHONES R: R less than –40dB

2. Noise level

Confirm that the PHONES L and R output noise level is less than –90dBm when no sound is produced.
Note: 0dBm = 0.775V

DIGITAL PIANO
YDP-121

PARTS LIST

■ **CONTENTS**

OVERALL ASSEMBLY 2
MAIN UNIT 4
MAINBOX ASSEMBLY 5
SIDE BOARD ASSEMBLY 8
PEDAL BOX ASSEMBLY 9
PEDAL ASSEMBLY 10
TOP BOARD & MUSIC REST 11
END BLOCK ASSEMBLY R 12
END BLOCK ASSEMBLY L 12
CONTROL PANEL ASSEMBLY 13
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POWER SUPPLY UNIT 15
KEYBOARD ASSEMBLY 16
HEADPHONES JACK ASSEMBLY 17
CONNECTOR, PK 17
BENCH 18
ELECTRICAL PARTS 19

Note) DESTINATION ABBREVIATIONS

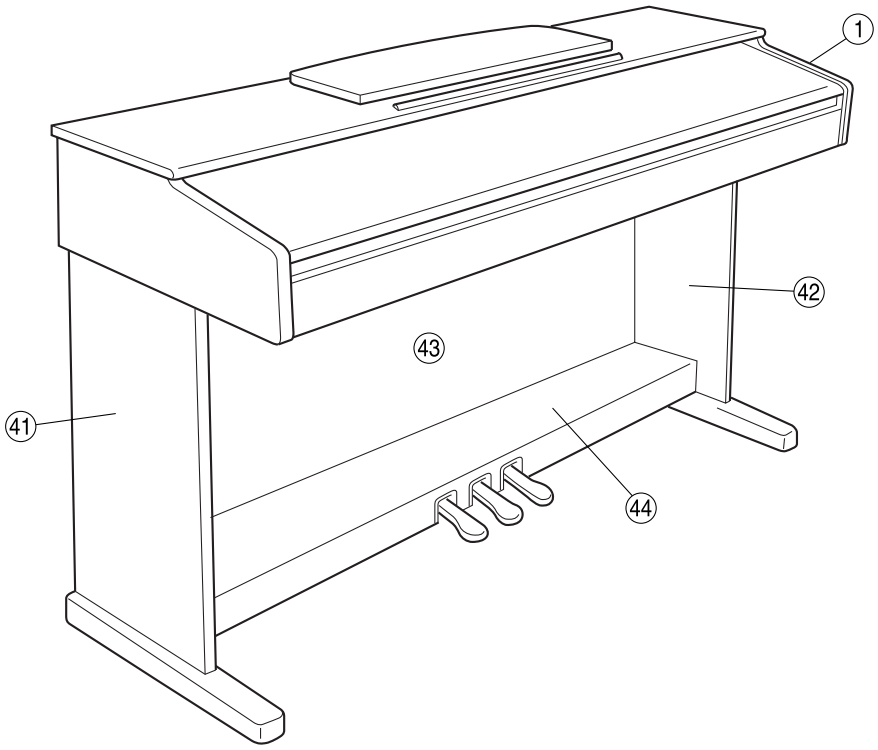
A:	Australian model	M:	South African model
B:	British model	O:	Chinese model
C:	Canadian model	Q:	South-east Asia model
D:	German model	T:	Taiwan model
E:	European model	U:	U.S.A. model
F:	French model	V:	General export model (110V)
H:	North European model	W:	General export model (220V)
I:	Indonesian model	N,X:	General export model
J:	Japanese model	Y:	Export model

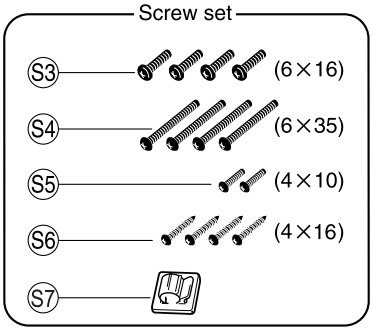
■ WARNING

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

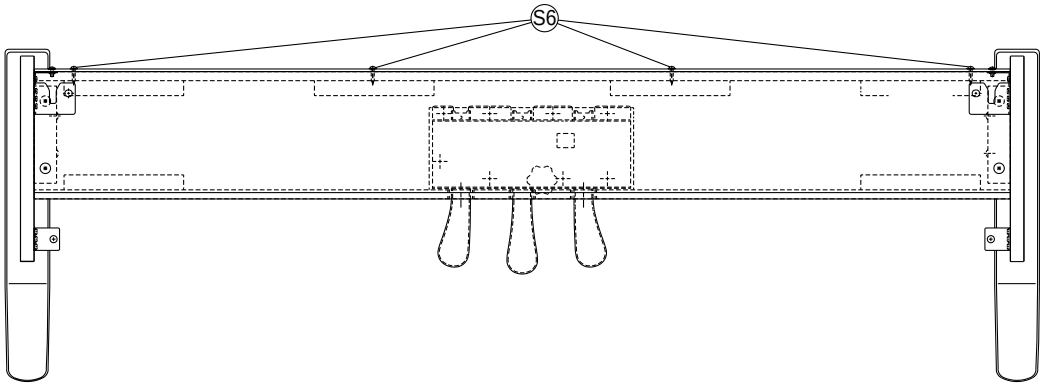
■ The numbers in “QTY” shows quantities for each unit.
■ The parts with “--” in “Part No.” are not available as spare parts.
■ The second letter of the shaded ( ) part number is I, not one.
■ The second letter of the shaded ( ) part number is O, not zero.
■ This mark “ } “ in the REMARKS column means these parts are interchangeable.

■ OVERALL ASSEMBLY

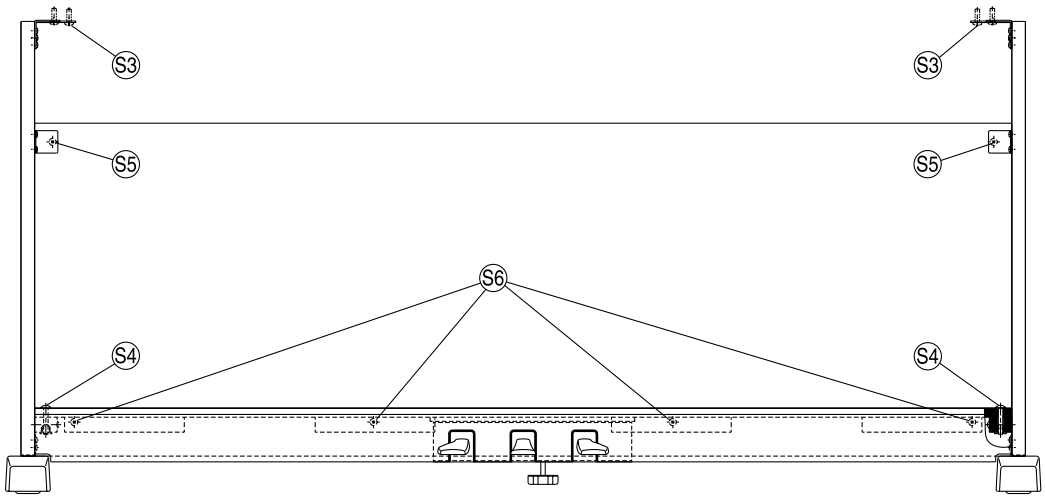




• **Top view**



• **Front view**



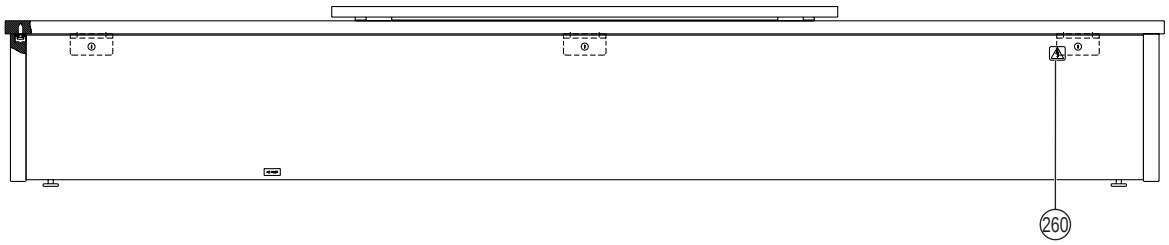
	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
			OVERALL ASSEMBLY			YDP121		
	1	--	Main Unit	J		J (V739190)		
	1	--	Main Unit	U		U (V739200)		
	1	--	Main Unit	E		G (V739210)		
	1	--	Main Unit	N		N (V739220)		
	41	--	Side Board & Stand Base L	LEFT		J (V771220)		
	42	--	Side Board & Stand Base R	RIGHT		J (V771230)		
	43	VV443500	Back Board Set			J		11
	44	--	Pedal Box Assembly			J (V308490)		
			ACCESSORIES					
		--	Bench	CL BC-101 J		J (V739300)		
		--	Bench	CL BC-101 BS		G (V739310)		
		V5771000	Headphone			J		07
⚠		VT015700	AC Cord Set	J 2 2.5m 7A		J		05
⚠		V2916900	AC Cord Set	J 2 7A 2.5m		J		05
⚠		V3126200	AC Cord Set	J 2 2.5m 7A		J		
⚠		VT015800	AC Cord Set	U2 2.44m 7A		U		06
⚠		V2917000	AC Cord Set	UC 2 7A 2.44m		U		06
⚠		V3126400	AC Cord Set	U 2 2.5m		U		
⚠		VT016000	AC Cord Set	B 2 2.5m		G		08
⚠		V3126500	AC Cord Set	B 2 2.5m		G		
⚠		VT015900	AC Cord Set	E 2 2.5m		EN		05
⚠		V2917100	AC Cord Set	E 2 2.5m 2.5A		EN		05
⚠		V3126300	AC Cord Set	E 2 2.5m		EN		
*		V6002600	Screw Set			J		
		VZ176100	Back Toe Set			U		09
*		V6002600	Screw Set					
	S3	EG360020	Bind Head Screw	6.0X16 MFZN2BL			4	01
	S4	VS880300	Truss Head Screw	6.0X35 MFZN2BL			4	
	S5	VT196400	Truss Head Screw	4.0X10 MFZN2BL			2	01
	S6	03747330	Truss Head Tapping Screw-1	4.0X16 MFZN2BL			4	01
	S7	VR410300	Cord Clamp Set					03
	S7a	VP592100	Cord Clamper	DKN-5B (VHB)			2	03

*: New Parts

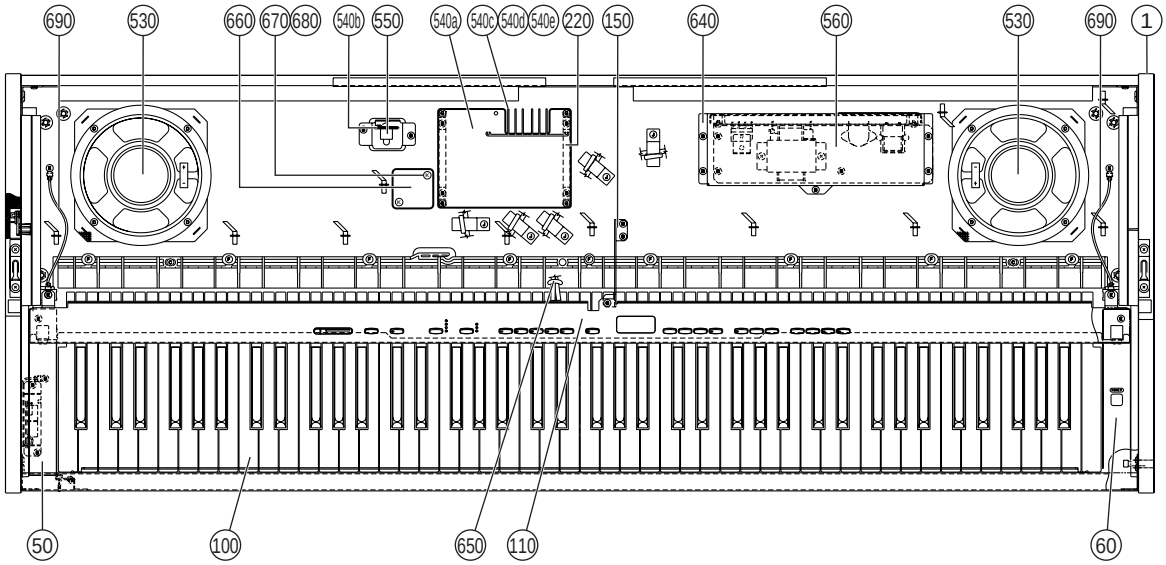
RANK: Japan only

■ MAIN UNIT

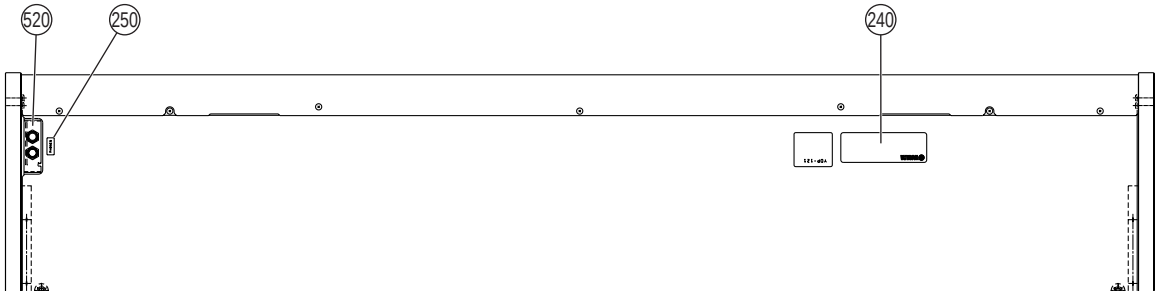
- **Rear view**



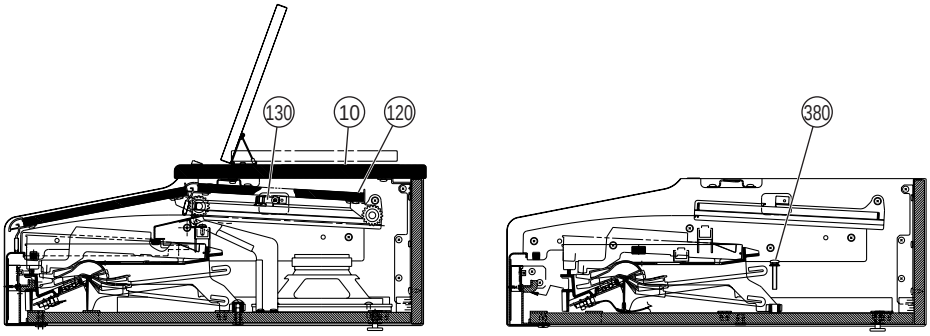
- **Top view**



- **Bottom view**

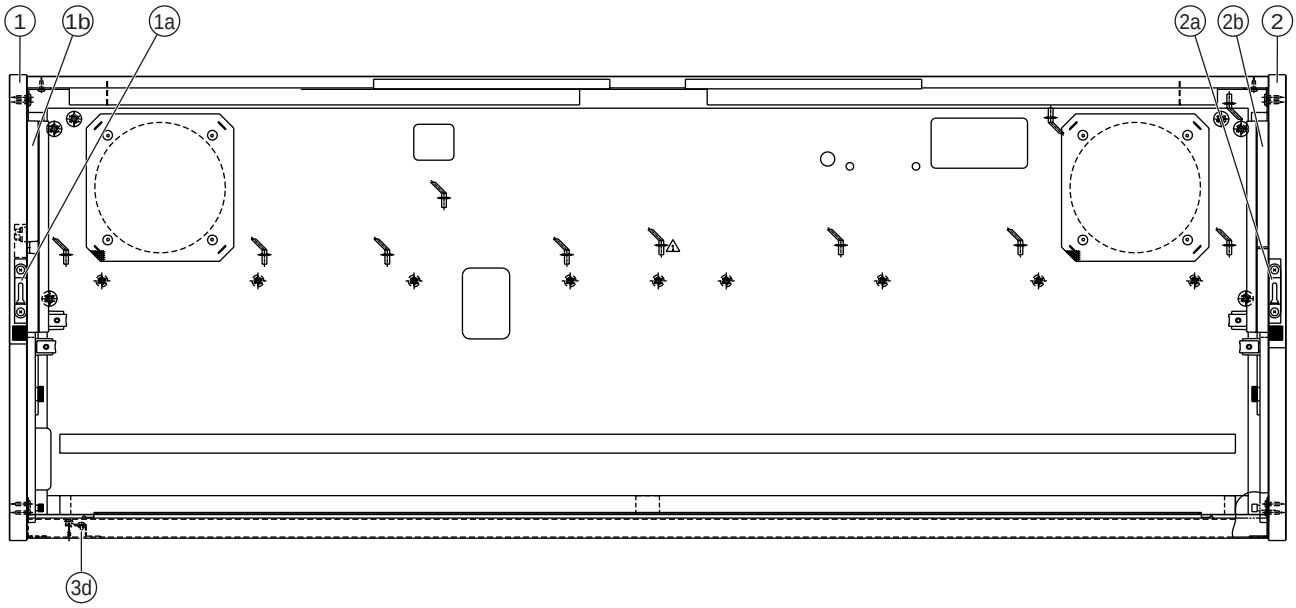


- **Side view**

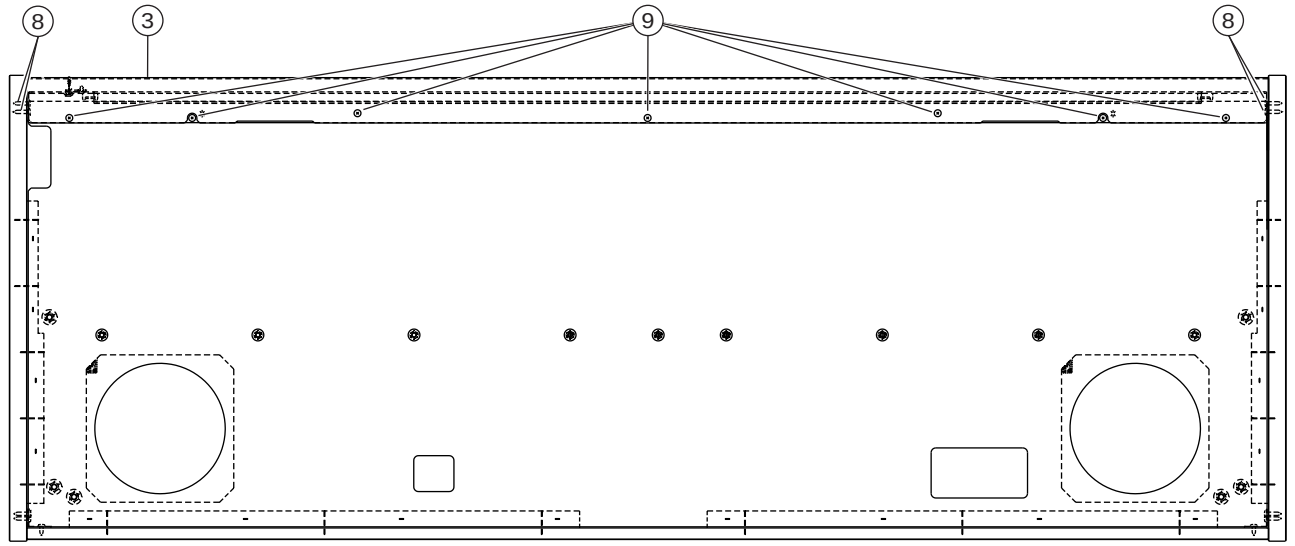


■ MAINBOX ASSEMBLY

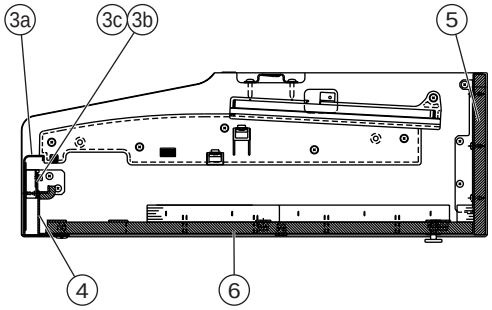
• **Top view**



• **Bottom view**



• **Side view**



Ⓑ	330	Bind Head Tapping Screw-1 (EP030340)	16
Ⓒ	340	Bind Head Tapping Screw-1 (EP040230)	2
Ⓓ	360	Truss Head Tapping Screw-1 (20338800)	8
Ⓔ	370	Bind Head Tapping Screw-B (EP600240)	4
Ⓕ	380	Pan Head Screw (VV040700)	9
Ⓖ	390	Bind Head Tapping Screw-B (EP600190)	6
Ⓘ	410	Truss Head Screw (VB934000)	3
Ⓙ	420	Truss Head Tapping Screw-1 (EN63023)	6
Ⓚ	680	Bind Head Tapping Screw-1 (EP030470)	2

	REF NO.	PART NO.	DESCRIPTION			REMARKS		QTY	RANK
			MAIN UNIT			YDP121			
		--	Main Unit	J		J	(V739190)		
		--	Main Unit	U		U	(V739200)		
		--	Main Unit	E		G,E	(V739210)		
		--	Main Unit	N		N	(V739220)		
		--	Main Unit Sub Assembly			JUGEN	(V739230)		
	240	--	Name Plate	J		J	(V739940)		
	240	--	Name Plate	J		J	(V739950)		
	240	--	Name Plate	U		U	(V739960)		
	240	--	Name Plate	N		N	(V739980)		
	260	VB951400	Graphic Mark	MKX-5 UL		U			03
	330	EP030340	Bind Head Tapping Screw-1	3.5X12 MFZN2BL		U		3	01
⚠	560	V0010200	Power Supply Unit			J			14
⚠	560	V0010300	Power Supply Unit			U			14
⚠	560	V0010400	Power Supply Unit			G,E			14
⚠	560	V0010500	Power Supply Unit			N			22
	640	V2035900	Cover, Power Supply Unit			U			07
	690	VH871600	GND Wire	L=150		U		2	04
		--	Main Unit Sub Assembly				(V739230)		
*	1	V7398800	MainBox Assembly						
	10	--	Top Board & Music Rest				(V741600)		
	50	VV603300	End Block Assembly	LEFT					05
	60	VV877400	End Block Assembly	RIGHT					11
*	100	V7411600	Keyboard Assembly	A88 K6					
	110	--	Control Panel Assembly				(V739890)		
	120	V3083200	Key Cover Assembly						20
	130	VS312100	Rack Cover	LEFT					03
	150	--	Panel Holder Assembly				(V472340)		
	220	--	Holder, DA				(V740000)	2	
	250	--	Label, PHONES				(VS47810)		
	270	VP834600	Adhesive Tape	12X50					02
	330	EP030340	Bind Head Tapping Screw-1	3.5X12 MFZN2BL				16	01
	340	EP040230	Bind Head Tapping Screw-1	4.0X14 MFZN2Y				2	01
	360	20338800	Truss Head Tapping Screw-1	4X20 MFZN2Y				8	01
	370	EP600240	Bind Head Tapping Screw-B	4.0X10 MFZN2BL				4	01
	380	VV040700	Pan Head Screw	5.0X25 MFZN2Y PW				9	01
	390	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL				6	01
	410	VB934000	Truss Head Screw	4.0X20 MFZN2BL				3	01
	420	EN630230	Truss Head Tapping Screw-1	3.5X14 MFZN2Y				6	01
	490	VN887900	Guide Screw	+6X14				2	03
	520	--	Headphones Jack Assembly				(V512890)		
	530	XS419A00	Speaker	16.0cm 4ohm 20W				2	08
	540	--	Circuit Board	DA					
*	540a	V7373200	Circuit Board	DA1/2 J E,U					
	540b	V7373300	Circuit Board	DA 2/2 J E,U					
	540c	V2308300	Heat Sink						04
	540d	VT461100	Transistor Holder						03
	540e	EP600220	Bind Head Tapping Screw-B	3.0X10 MFZN2Y				3	01
	550	--	PK Connector				(V740790)		
	580	--	Connector Assembly	POWER-LF			(V737370)		
	590	--	Connector Assembly	SP-LF			(V737350)		
	600	--	Connector Assembly	HP-LF			(V737360)		
	610	--	Connector Assembly				(VV85230)		
	620	--	Connector Assembly	2P-150			(VK09960)		
	630	--	Connector Assembly	4P-150			(VK10000)		
	650	CB069250	Cord Holder	BK-1					01
*	660	V7682300	Circuit Board	BU		J,U,E			
	670	CB040950	Spacer					2	03
	680	EP030470	Bind Head Tapping Screw-1	3.5X20 MFZN2Y				2	01
			MAINBOX ASSEMBLY			YDP121			
*		V7398800	Mainbox Assembly						
	1	--	Side Cover Assembly	LEFT			(V464290)		
	1a	VV444200	Holder, Top Board	1.20 BLACK					03
	1b	VV282800	Rack Assembly	LEFT					07
	1c	EP030260	Bind Head Tapping Screw-1	3.5X16 MFZN2BL				6	01
	1d	EP040070	Bind Head Tapping Screw-1	4.0X20 MFZN2BL				2	01
	2	--	Side Cover Assembly	RIGHT			(V464300)		
	2a	VV444200	Holder, Top Board	1.20 BLACK					03

*: New Parts

RANK: Japan only

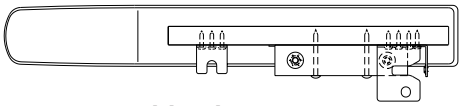
REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
2b	**VV282900**	Rack Assembly	RIGHT				07
2c	**EP030260**	Bind Head Tapping Screw-1	3.5X16 MFZN2BL			6	01
2d	**EP040070**	Bind Head Tapping Screw-1	4.0X20 MFZN2BL			2	01
3	**--**	Front Rail Assembly			(V468790)		
3a	**V4688000**	Front Rail					12
3b	**VN637600**	Circuit Board	PL(YCJ)				03
3c	**VU659100**	Circuit Board	PL(YMMA)				03
3d	**EP600230**	Bind Head Tapping Screw-B	3.0X6 MFZN2BL				01
4	**V4008900**	Holder Assembly, Keyboard					08
5	**--**	Back Top Board Assembly			(V739920)		
6	**--**	Keybed Assembly			(V739900)		
8	**EP030190**	Bind Head Tapping Screw-1	3.5X16 MFZN2Y			10	01
9	**EP030250**	Bind Head Tapping Screw-1	3.5X14 MFZN2BL			7	01

*: New Parts

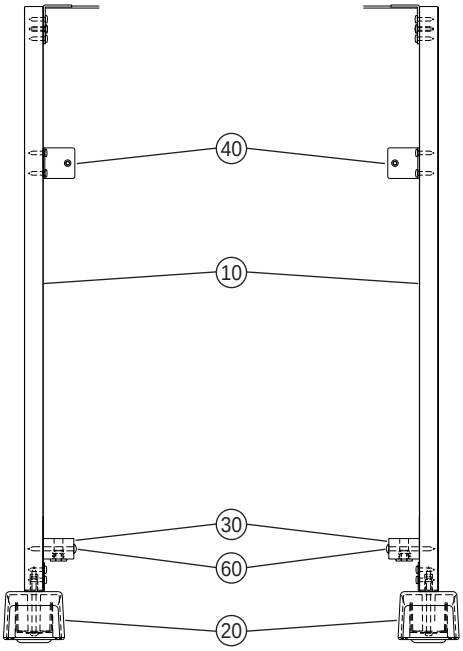
RANK: Japan only

■ SIDE BOARD ASSEMBLY

• Top view

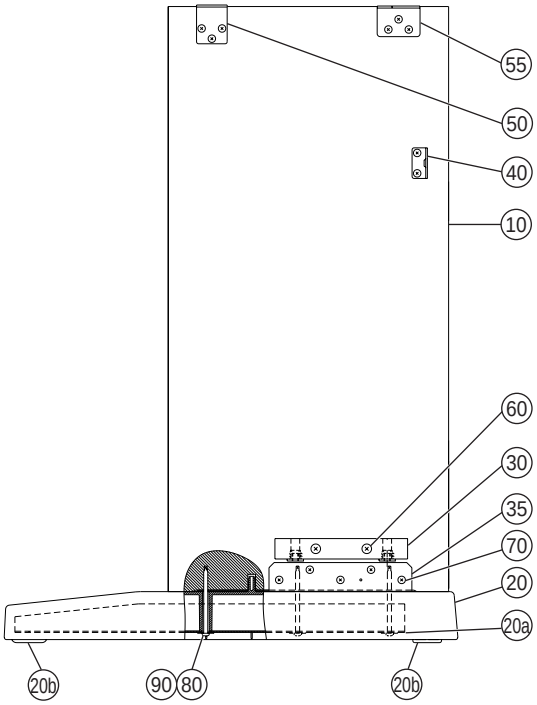


• Front view (L)



• Front view (R)

• Side view

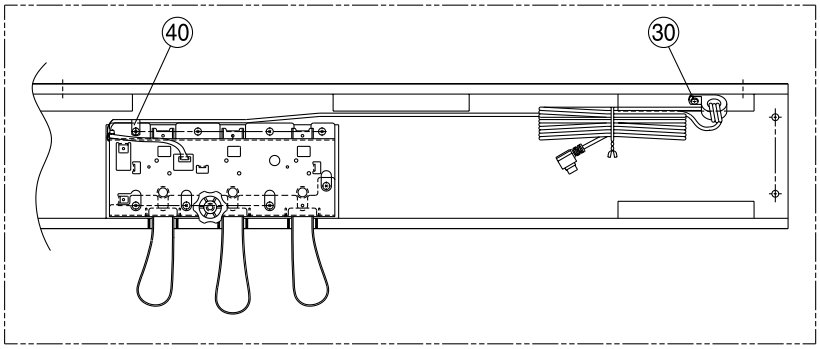


REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		SIDE BOARD ASSEMBLY			YDP121		
	--	Side Board Assembly	LEFT		(V771220)		
10	V4642500	Side Board	LEFT				12
20	V3316300	Stand Base Assembly	BROWN				08
20a	--	Angle Bracket, Stand Base			(VT45800)		
20b	VI235200	Foot	YFP70				01
20c	VA914400	Bind Head Tapping Screw-B	4.0X12 MFZN2Y			3	01
30	--	Pedal Box Stopper			(VZ18000)		
35	VY824800	Angle L	LEFT				03
40	VQ958300	Holder, Back Board					05
50	--	Angle Bracket			(V464270)		
55	VS295500	Holder, ST	LEFT				05
60	VQ488900	Truss Head Tapping Screw-1	4.0X45 MFZN2Y			2	01
70	EP030260	Bind Head Tapping Screw-1	3.5X16 MFZN2BL			13	01
80	VV444000	Pan Head Tapping Screw	4.0X65 MFZN2Y			3	01
90	03765410	Flat Washer	4.0X10X0.8 MFZN2Y			3	01
	--	Side Board Assembly	RIGHT		(V771230)		
10	V4642600	Side Board	RIGHT				12
20	V3316300	Stand Base Assembly	BROWN				08
20a	--	Angle Bracket, Stand Base			(VT45800)		
20b	VI235200	Foot	YFP70				01
20c	VA914400	Bind Head Tapping Screw-B	4.0X12 MFZN2Y			3	01
30	--	Pedal Box Stopper			(VZ18000)		
35	VY824900	Angle R	RIGHT				03
40	VQ958300	Holder, Back Board					05
50	--	Angle Bracket			(V464270)		
55	VS295600	Holder, ST	RIGHT				05
60	VQ488900	Truss Head Tapping Screw-1	4.0X45 MFZN2Y			2	01
70	EP030260	Bind Head Tapping Screw-1	3.5X16 MFZN2BL			13	01
80	VV444000	Pan Head Tapping Screw	4.0X65 MFZN2Y			3	01
90	03765410	Flat Washer	4.0X10X0.8 MFZN2Y			3	01

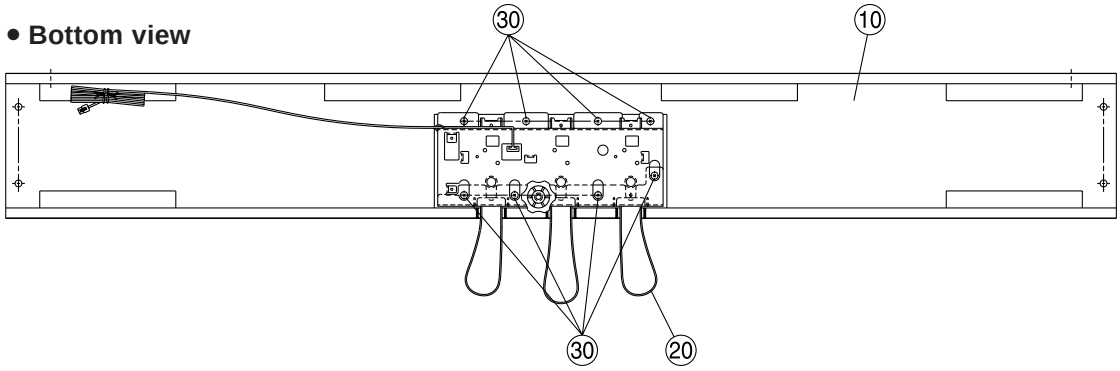
*: New Parts

RANK: Japan only

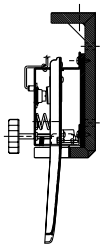
■ PEDAL BOX ASSEMBLY



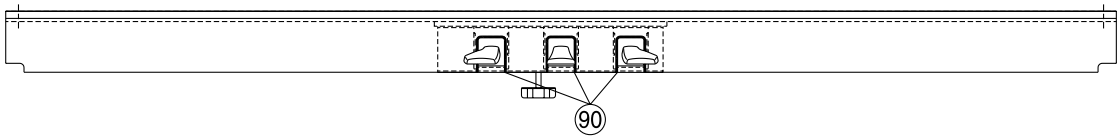
• **Bottom view**



• **Side view**



• **Front view**



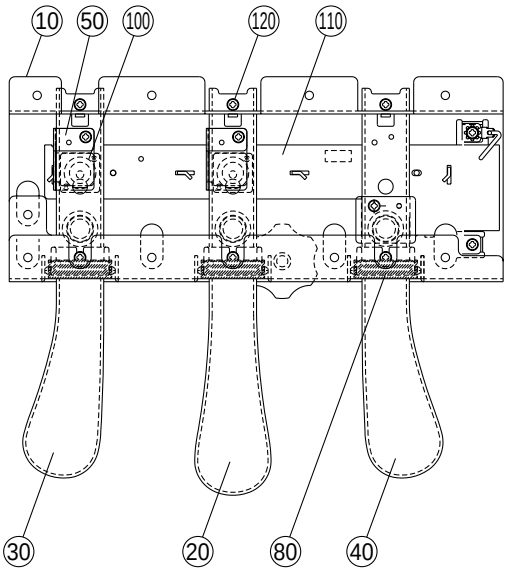
REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		PEDAL BOX ASSEMBLY			YDP121		
	--	Pedal Box Assembly			(V308490)		
10	**V3085700**	Pedal Box					15
20	**V0053700**	Pedal Assembly					18
30	**EP040230**	Bind Head Tapping Screw-1	4.0X14 MFZN2Y			9	01
40	**CB065520**	Nylon Clamp	NK-3N				01
90	**VU464300**	Felt	115X12X2 RED			3	03

*: New Parts

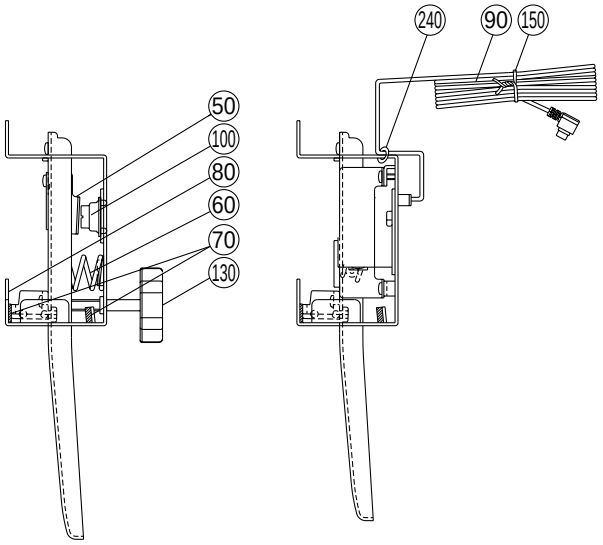
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■ PEDAL ASSEMBLY

• Top view



• Side view



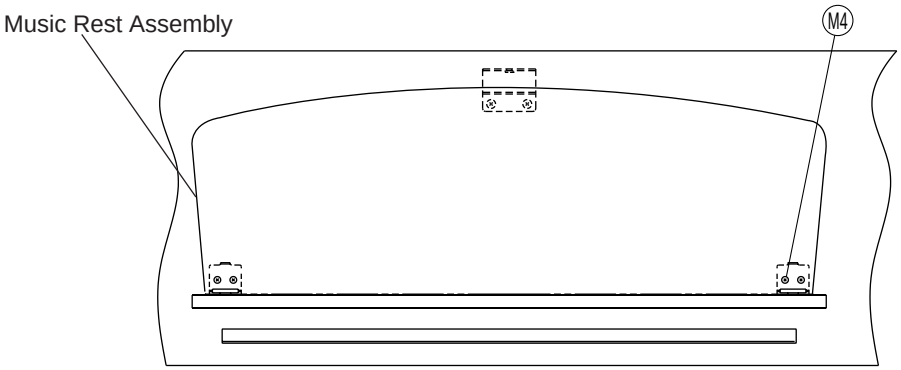
REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		PEDAL ASSEMBLY			YDP121		
	V0053700	Pedal Assembly					18
10	**VU339700**	Pedal Frame					09
20	**VU362000**	Pedal Piece	CENTOR		sostenuto		08
30	**VU362100**	Pedal Piece	LEFT		soft		08
40	**VU362200**	Pedal Piece	RIGHT		damper		08
50	**VV433500**	Actuator	PEDAL			3	03
60	**VP348100**	Pedal Spring				3	03
70	**VU346500**	Felt	BLACK			6	03
80	**VU339800**	Shutter	PEDAL			3	03
90	**V0044700**	Connector Assembly					08
100	**VU456000**	Rubber Contact	1 PEDAL			3	03
110	**V2337300**	Circuit Board	PEDAL				07
120	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			10	01
130	**VU379700**	Adjuster					02
150	**CB033610**	Cord Binder	L=160				01
240	**CB069250**	Cord Holder	BK-1			2	01

*: New Parts

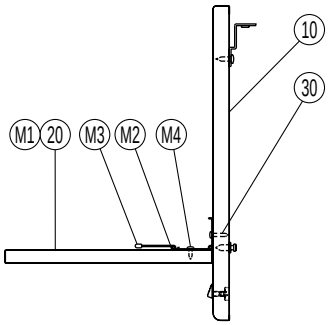
RANK: Japan only

■ TOP BOARD & MUSIC REST

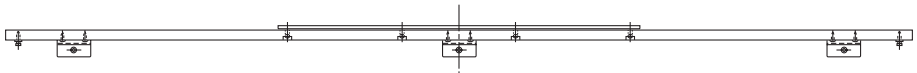
• **Top view**



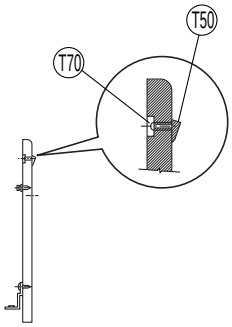
• **Side view**



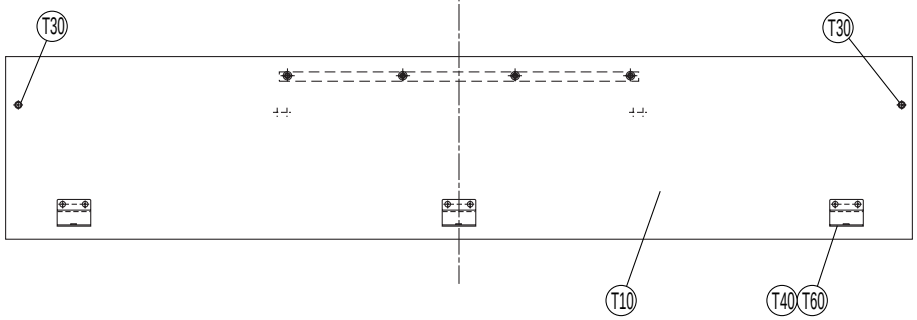
• **Rear view**



• **Side view**



• **Bottom view**



	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
			TOP BOARD & MUSIC REST			YDP121		
		--	Top Board & Music Rest			(V741600)		
	10	V4643900	Top Board Assembly					08
*	20	V7400400	Music Rest Assembly					
	30	EP030310	Bind Head Tapping Screw-1	3.0X16 MFZN2BL			4	01
		V4643900	Top Board Assembly					08
	T10	--	Top Board			(V464630)		
	T30	VV444100	Screw				2	03
	T40	VQ485800	Holder, Top Board	RIGHT			3	05
	T50	V2780400	Stopper Rail, Music Score					05
	T60	EP040230	Bind Head Tapping Screw-1	4.0X14 MFZN2Y			6	01
	T70	VZ179200	PW Head Screw	2.2X5.8 MFZN2Y			4	01
*		V7400400	Music Rest Assembly					
	M1	--	Music Rest			(V740050)		
	M2	VD255900	Hinge				2	07
	M3	CB054920	Cap	BLACK			2	01
	M4	20404200	Bind Head Tapping Screw-1	3.0X10 MFZN2BL			4	

*: New Parts

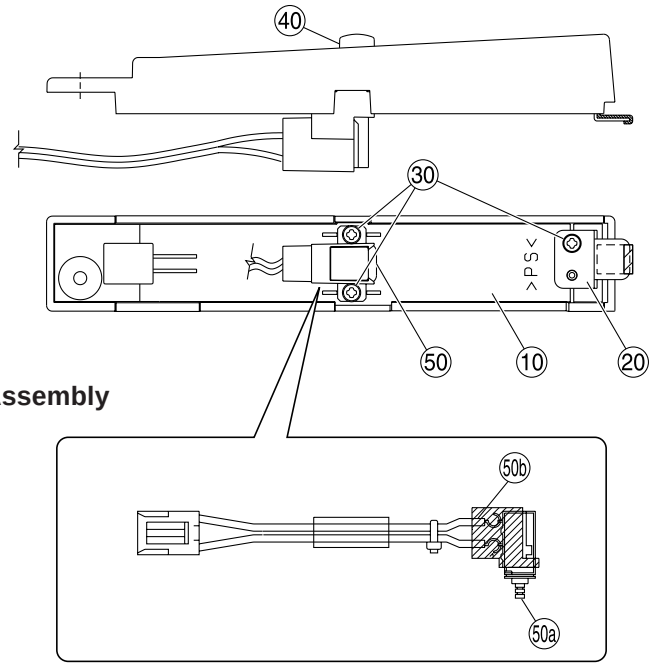
RANK: Japan only

■ END BLOCK ASSEMBLY R

• **Side view**

• **Bottom view**

• **Power Switch Assembly**



REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		END BLOCK ASSEMBLY R			YDP121		
	VV877400	End Block Assembly	RIGHT				11
10	**V4686200**	End Block Sub Assembly	RIGHT				04
20	**VL732000**	Holder Assembly					04
30	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			3	01
40	**VF663400**	Knob	BLACK				02
50	**VS353700**	Power Switch Assembly					08
50a	**VC843500**	Push Switch	SDDLB1216A J.U.C.S		POWER		03
50b	**V5800800**	Switch Cover	IVORY		POWER		01

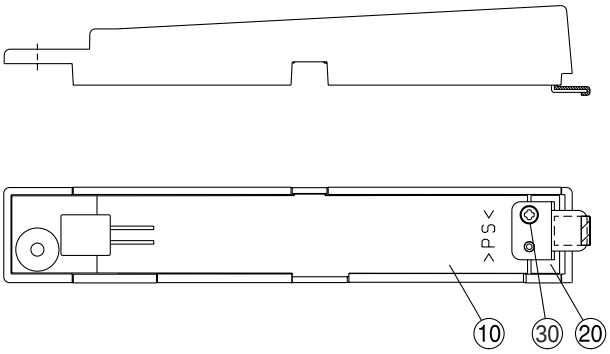
*: New Parts

RANK: Japan only

■ END BLOCK ASSEMBLY L

• **Side view**

• **Bottom view**



REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		END BLOCK ASSEMBLY L			YDP121		
	VV603300	End Block Assembly	LEFT				05
10	**V4686300**	End Block Sub Assembly	LEFT				04
20	**VL732000**	Holder Assembly					04
30	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL				01

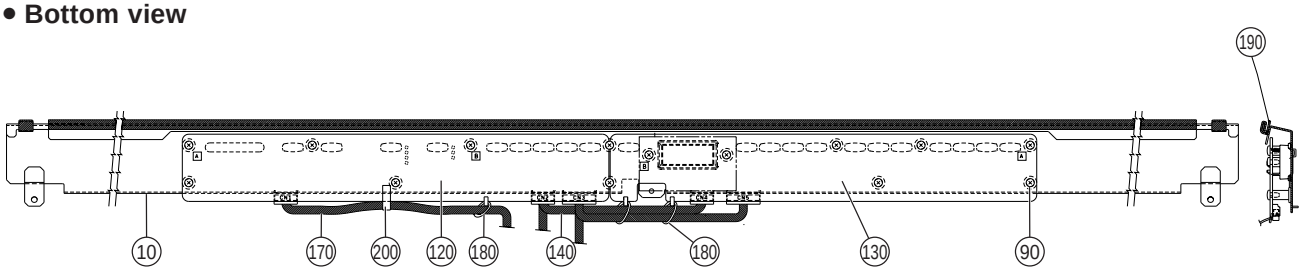
*: New Parts

RANK: Japan only

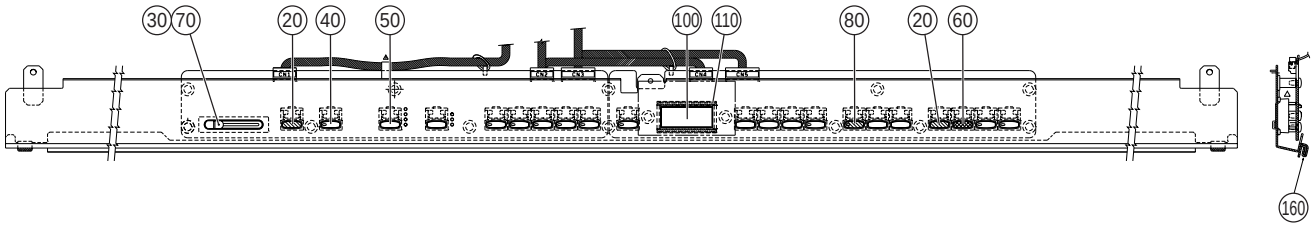
■ CONTROL PANEL ASSEMBLY

• Side view

• Bottom view



• Top view



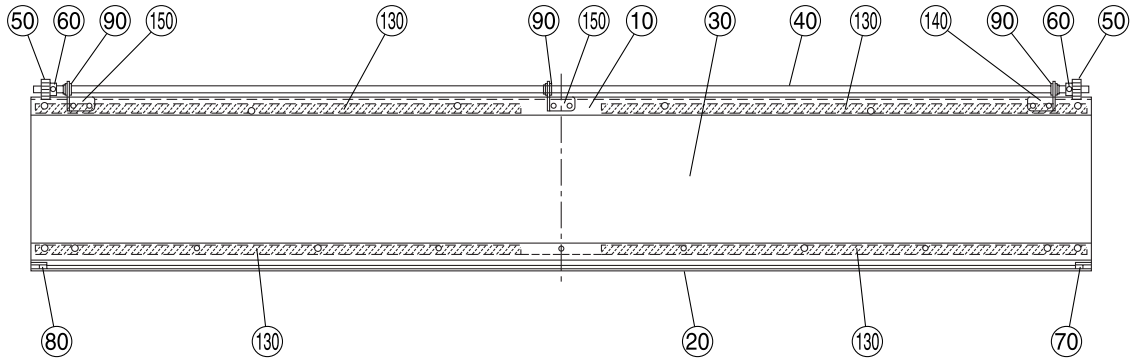
REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		CONTROL PANEL ASSEMBLY			YDP121		
	--	Control Panel Assembly			(V739890)		
* 10	V7399900	Control Panel					
20	VS513300	Knob	GRAY		DEMO,START/STOP	2	03
30	VS179900	Slide Knob			MASTER VOLUME		03
40	VS180000	Knob			TRANSPOSE,GRAND PIANO E.PIANO,HARPSICHORD, STRINGS,PIPE ORGAN, VARIATION,FUNCTION, TRACK 1,TRACK 2	10	03
50	VS180100	Knob			REVERB,TOUCH,METRONOME, TEMPO DOWN,TEMPO UP,-/ NO,+/YES	7	03
60	VS311000	Knob	RED		REC		03
70	VK323500	Escutcheon					05
80	VS311100	Knob	GRAY		SONG		03
90	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL			14	01
100	VP889000	Tempo Housing	SMOKE				04
110	V3237200	Cushion	45X3XT2			2	
120	V4843300	Circuit Board	PNL J,U				08
130	V4843400	Circuit Board	PNR J,U				08
140	--	connector Assembly					
160	--	Felt	16X12X1		(V368090)	2	
170	--	Connector Assembly	L=400		(V345580)		
180	CB069250	Cord Holder	BK-1		(V222620)	2	01
190	--	Felt	MK				
200	VP834600	Adhesive Tape	12X50		(V510750)		02

*: New Parts

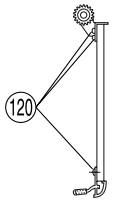
RANK: Japan only

■ KEY COVER ASSEMBLY

• **Bottom view**



• **Side view**



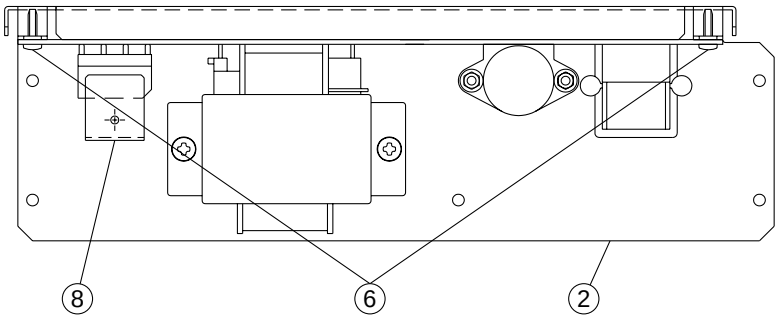
REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		KEY COVER ASSEMBLY			YDP121		
	V3083200	Key Cover Assembly					20
10	**VV285500**	Sash					08
20	**VV285800**	Sash					12
30	**--**	Slide Cover			(V308620)		
40	**VU257800**	Rod					09
50	**VT190400**	Gear				2	03
60	**EG330060**	Bind Head Screw	3.0X10 MFZN2Y			2	01
70	**VS378000**	Sash Cover	BLACK LEFT				03
80	**VS378100**	Sash Cover	BLACK RIGHT				03
90	**VS368500**	Bushing				3	03
120	**VN920900**	Bind Head Tapping Screw-1	3.5X8 MFZN2BL			19	01
130	**--**	Adhesive Tape	600X12		(VO02370)	4	
140	**VV285600**	Holder, Rod	LEFT				03
150	**VV285700**	Holder, Rod	RIGHT			2	03

*: New Parts

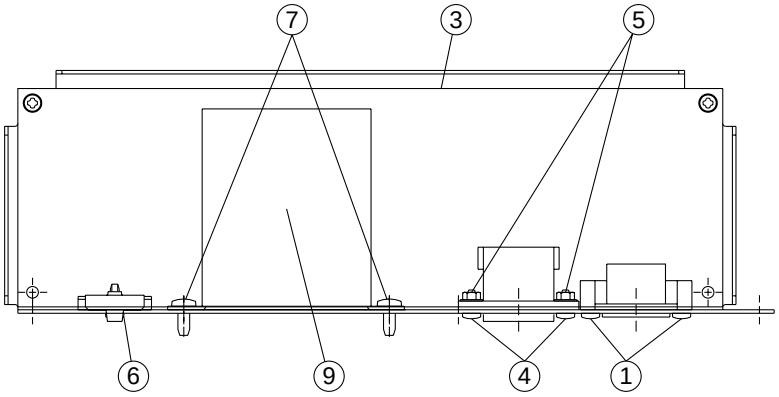
RANK: Japan only

■ POWER SUPPLY UNIT

• **Top view**



• **Front view**

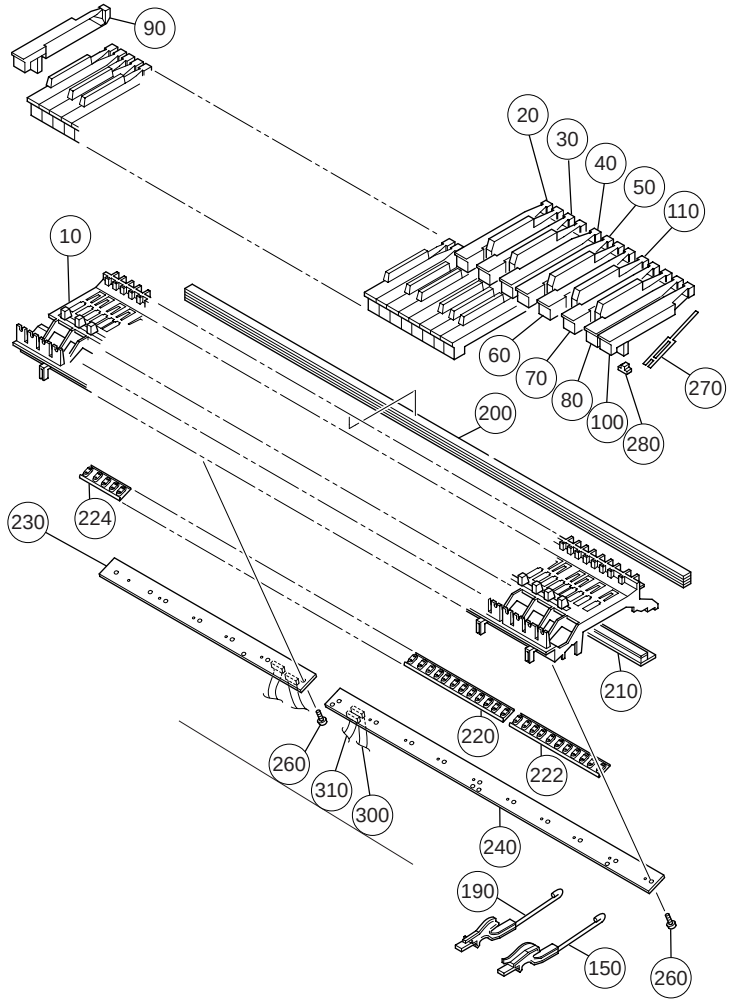


REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		POWER SUPPLY UNIT			YDP121		
⚠	**V0010200**	Power Supply Unit			J		14
⚠	**V0010300**	Power Supply Unit			U		14
⚠	**V0010400**	Power Supply Unit			GE		14
⚠	**V0010500**	Power Supply Unit			N		22
1	**EP600140**	Bind Head Tapping Screw-B	3.0X10 MFZN2BL			2	01
2	**VZ958800**	Plate, AC Inlet					07
2	**VZ958900**	Panel, AC Inlet			U		08
3	**V0010700**	Circuit Board			J		11
3	**V0010800**	Circuit Board			U		11
3	**V0011000**	Circuit Board			GE		11
3	**V0011100**	Circuit Board			N		12
4	**EG330320**	Bind Head Screw	3.0X12 MFZN2BL		U	2	01
5	**VA211900**	Hexagonal Nut	3.0 MFZN2Y		U	2	01
6	**VE683000**	Bind Head Tapping Screw-B	3.0X12 MFZN2Y			3	01
7	**EP600240**	Bind Head Tapping Screw-B	4.0X10 MFZN2BL			2	01
8	**VT461100**	Transistor Holder					03
⚠	9 **XU445A00**	Power Transformer	J/UL/CSA A		J,U		09
⚠	9 **XU446A00**	Power Transformer	IEC65 E		E		09
⚠	9 **XU447A00**	Power Transformer	N IEC65 E		N		09

*: New Parts

RANK: Japan only

■ KEYBOARD ASSEMBLY

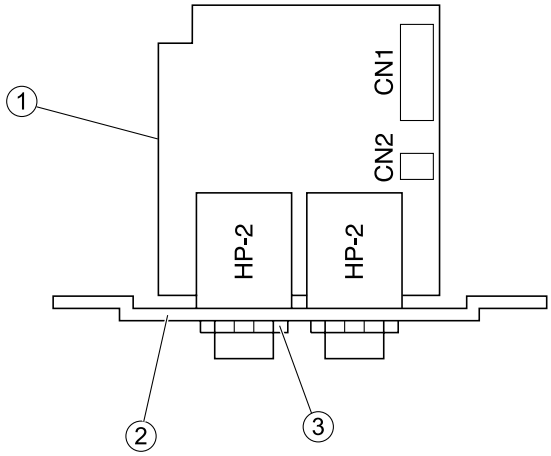


	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
			KEYBOARD ASSEMBLY			YDP121		
*		**V7411600**	Keyboard Assembly	A88 K6				
	10	**--**	MK Frame			(VU42210)		
	20	**VU101000**	White Key	WHITE			7	05
	30	**VU101100**	White Key	WHITE			7	05
	40	**VU101200**	White Key	WHITE			7	05
	50	**VU101300**	White Key	WHITE			7	05
	60	**VU101400**	White Key	WHITE			7	05
	70	**VU101500**	White Key	WHITE			7	05
	80	**VU101600**	White Key	WHITE			8	05
	90	**VU101700**	White Key	WHITE				05
	100	**VU101800**	White Key	WHITE				05
	110	**VU102100**	Black Key	BLACK			36	05
	150	**VY828800**	Hammer, Dome W4				52	05
	190	**VY829200**	Hammer, Dome B4				36	05
	200	**VU342100**	Stopper					09
	210	**V7640100**	Stopper					09
	220	**VY846700**	Seesaw Dome D-C#	GH 2M OCT			6	08
	222	**VY846800**	Seesaw Dome A-C#	GH 2M OCT				08
	224	**VY846900**	Seesaw Dome D-C	GH 2M OCT				08
*	230	**V7411800**	Circuit Board	HE 1 2M				
	240	**VZ705300**	Circuit Board	GH 1 2M				13
	260	**VT413400**	Bind Head Tapping Screw-P	3.0X10 MFZN2			17	01
	270	**V2798500**	Spring R	GH			88	
	280	**V2211300**	Rubber	GH,GHD,HE			88	03
	300	**VU341800**	Connector Assembly	9P				06
	310	**VU341900**	Connector Assembly	12P				07

*: New Parts

RANK: Japan only

■ HEADPHONES JACK ASSEMBLY

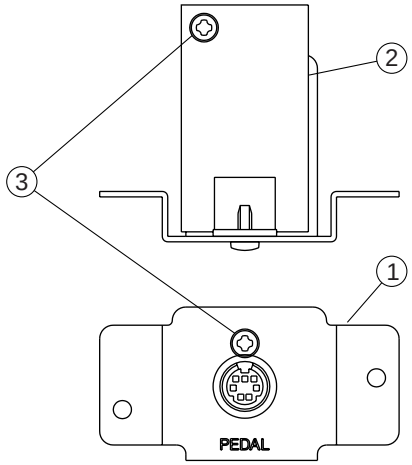


REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		HEADPHONES JACK ASSEMBLY			YDP121		
	--	Headphones Jack Assembly			(V512890)		
1	V5115100	Circuit Board	HP				08
2	VN631800	Angle, Headphone					04
3	VB508600	Hexagonal Nut	12.0 14X2 MFZN2BL			2	01

*: New Parts

RANK: Japan only

■ CONNECTOR, PK

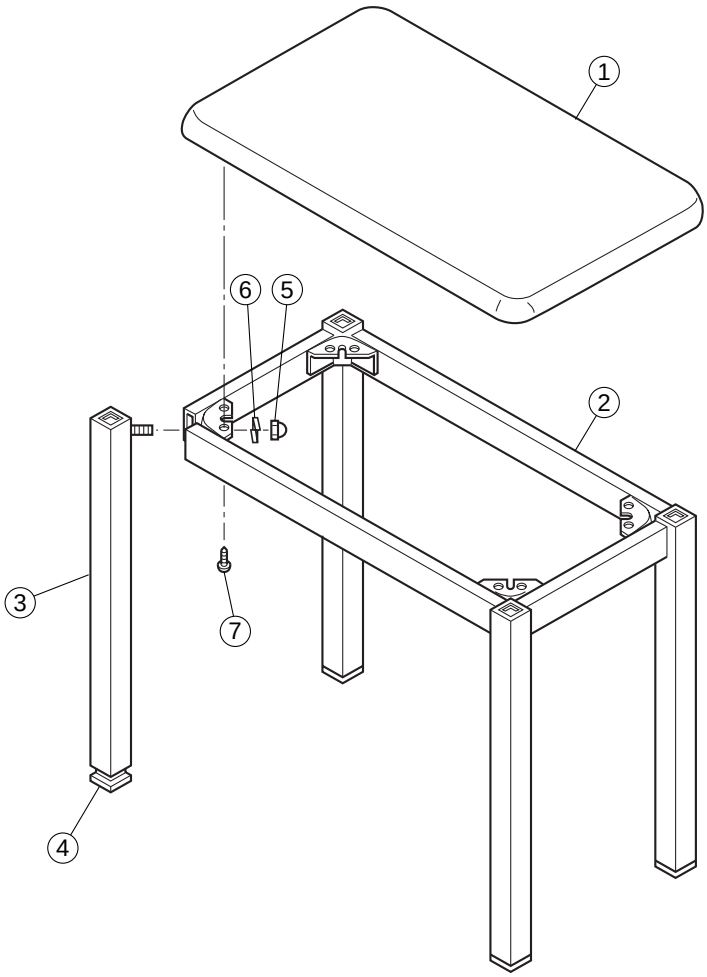


REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
		CONNECTOR, PK			YDP121		
	--	Connector, PK			(V740790)		
1	V4980600	Angle					05
2	--	Circuit Board	J E,U		(V737330)		
3	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			2	01

*: New Parts

RANK: Japan only

■ BENCH



	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
			BENCH			YDP121		
		--	Bench	BC-101		(V739300)		
*	1	AAX24050	Bench Board Assembly					
*	2	AAX24060	Bench Frame Assembly					
*	3	AAX24070	Leg Pipe Assembly				4	
*	4	AAX24080	Leg Cap				4	
*	5	AAX25720	Crown Nut	M10P 1.5L 50 MFZN			4	03
	6	EX001290	Spring Washer	M10 t=2 MFZN2Y			4	03
	7	EX001300	Bind Head Tapping Screw	M4X15 MFZN2Y			8	03

*: New Parts

RANK: Japan only

■ ELECTRICAL PARTS

	REF NO.	PART NO.	DESCRIPTION			REMARKS		QTY	RANK
			ELECTRICAL PARTS			YDP121			
*		V7682300	Circuit Board	BU		J,U,E	(XO281A0)		
*		V7373200	Circuit Board	DA 1/2		J,U,E	(XZ775D0)		
*		V7373300	Circuit Board	DA 2/2		J,U,E	(XZ775D0)		
		VZ705300	Circuit Board	GH-D SW H 1 2M			(XT241A0)		13
*		V7411800	Circuit Board	HE-D SW L 1 2M			(XT240A0)		
		V5115100	Circuit Board	HP		(XU684A0)	(XV858A0)		08
		V4843300	Circuit Board	PNL		J,U	(XV490B0)		08
		V4843400	Circuit Board	PNR		J,U	(XV490B0)		08
		V0010700	Circuit Board	PS		J	(XU372D0)		11
		V0010800	Circuit Board	PS		U	(XU372D0)		11
		V0011000	Circuit Board	PS		GE	(XU372D0)		11
		V0011100	Circuit Board	PS		N	(XU372D0)		12
		VN637600	Circuit Board	PL(YCJ)			(XL151B0)		03
		VU659100	Circuit Board	PL(YMMA)			(XR898A0)		03
		V2337300	Circuit Board	PEDAL			(XR780B0)		07
		V7682300	Circuit Board	BU		J,U,E	(XO281A0)		
	C0001	VI055000	Super Capacitor	0.100F 5.5V FYD0H					04
	C0002	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z					01
	CN001	VB390300	Connector Base Post	PH- 7P TE					01
	D0001	VB941200	Diode	1SS133,1SS176					01
	D0002	VB941200	Diode	1SS133,1SS176					01
	IC001	IR000000	IC	TC74HC00AP		NAND			03
	R0001	HF755470	Carbon Resistor	470.0 1/4 J					01
	R0002	HF755100	Carbon Resistor	100.0 1/4 J					01
	R0003	HF754470	Carbon Resistor	47.0 1/4 J					01
	ZD001	VQ313000	Zener Diode	MTZJ5.6B 5.6V					01
*		V7373200	Circuit Board	DA 1/2		J,U,E	(XZ775D0)		
*		V7373300	Circuit Board	DA 2/2		J,U,E	(XZ775D0)		
		VK863100	IC Socket	DICF-42CS-E					03
	C0001	US062100	Ceramic Capacitor-SL(chip)	100P 50V J					01
	-0017	US062100	Ceramic Capacitor-SL(chip)	100P 50V J					01
	C0018	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K					01
	C0019	US062100	Ceramic Capacitor-SL(chip)	100P 50V J					01
	-0021	US062100	Ceramic Capacitor-SL(chip)	100P 50V J					01
	C0022	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K					01
	-0025	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K					01
	C0026	UF037100	Electrolytic Cap. (chip)	10 16V					01
	C0027	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K					01
	C0028	UF037100	Electrolytic Cap. (chip)	10 16V					01
	C0029	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K					01
	C0030	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K					01
	C0031	UF037470	Electrolytic Cap. (chip)	47 16V					01
	C0032	UF128470	Electrolytic Cap. (chip)	470 10V UUR1A4					02
	C0035	UF148220	Electrolytic Cap. (chip)	220 25V UUR1E2					02
	C0036	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K					01
	C0037	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K					01
	C0038	UF037470	Electrolytic Cap. (chip)	47 16V					01
	C0039	UF037470	Electrolytic Cap. (chip)	47 16V					01
	C0040	UF046470	Electrolytic Cap. (chip)	4.7 25V					01
	C0041	UF046470	Electrolytic Cap. (chip)	4.7 25V					01
	C0042	UF037470	Electrolytic Cap. (chip)	47 16V					01
	C0043	UF037100	Electrolytic Cap. (chip)	10 16V					01
	C0044	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K					01
	C0045	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K					01
	C0046	UF037100	Electrolytic Cap. (chip)	10 16V					01
	C0047	UF037100	Electrolytic Cap. (chip)	10 16V					01
	C0048	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K					01
	C0049	US062220	Ceramic Capacitor-SL(chip)	220P 50V J					01
	C0050	US061220	Ceramic Capacitor-CH(chip)	22P 50V J					01
	C0051	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z					01
	C0055	US061220	Ceramic Capacitor-CH(chip)	22P 50V J					01
	C0060	US062100	Ceramic Capacitor-SL(chip)	100P 50V J					01
	C0061	US062100	Ceramic Capacitor-SL(chip)	100P 50V J					01
	C0064	US062100	Ceramic Capacitor-SL(chip)	100P 50V J					01
	C0065	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K					01
	C0066	UF037100	Electrolytic Cap. (chip)	10 16V					01
	C0067	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K					01

*: New Parts

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	C0068	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C0069	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	C0070	UF037470	Electrolytic Cap. (chip)	47 16V				01
	C0071	UF046470	Electrolytic Cap. (chip)	4.7 25V				01
	C0072	UF037470	Electrolytic Cap. (chip)	47 16V				01
	C0073	UF148220	Electrolytic Cap. (chip)	220 25V UUR1E2				02
	C0074	UF046470	Electrolytic Cap. (chip)	4.7 25V				01
	C0075	US063100	Ceramic Capacitor-B (chip)	1000P 50V K				01
	C0076	US063100	Ceramic Capacitor-B (chip)	1000P 50V K				01
	C0077	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	C0078	UF046470	Electrolytic Cap. (chip)	4.7 25V				02
	C0079	UF037100	Electrolytic Cap. (chip)	10 16V				01
	C0080	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	-0087	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z				01
	C0088	US062100	Ceramic Capacitor-SL(chip)	100P 50V J				01
	-0091	US062100	Ceramic Capacitor-SL(chip)	100P 50V J				01
	C0092	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	C0093	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	C0094	US062100	Ceramic Capacitor-SL(chip)	100P 50V J				01
	-0096	US062100	Ceramic Capacitor-SL(chip)	100P 50V J				01
	C0097	VI055000	Capacitor	0.1F 5.5V				01
	C0098	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K				01
	CN001	VB390800	Connector Base Post	PH-12P TE				01
	CN002	VB390400	Connector Base Post	PH- 8P TE				01
	CN003	LB918050	Base Post Connector	XH 5P TE				01
	CN004	VB390400	Connector Base Post	PH- 8P TE				01
	CN005	VB390400	Connector Base Post	PH- 8P TE				01
	CN006	VB390000	Connector Base Post	PH- 4P TE				01
	CN007	VB390000	Connector Base Post	PH- 4P TE				01
	CN008	LB918070	Base Post Connector	XH 7P TE				01
	CN009	LB932040	Base Post Connector	VH- 4P TE				01
	D0001	VT332900	Diode	1SS355 TE-17				01
	D0002	VS201100	Diode	D1F60				01
	IC001	XV189A00	IC	TC74W00FU		NAND		01
	IC002	XU719A00	IC	HM621664HBLJP-20		SRAM		07
*	IC003	XV678A00	IC	UPC29L05J		REGURATOR +5V		03
	IC004	XR925A00	IC	SI-8401L		REGURATOR +5V		05
	IC006	XP867A00	IC	UPD63200GS-E1		DAC		07
	IC007	XU947C00	IC	HG73C205AFD		SWX00B		09
*	IC009	XZ977100	IC			MASK ROM		08
	IC010	XS516A00	IC	UPC2933T-E1		REGURATOR +3.3V		03
	IC012	XU131A00	IC	TA8233H		POWER AMP 30WX2 BTL		06
	IC013	XY352A00	IC	MM74HC132SJX		NAND		02
	IC014	XU387A00	IC	UPC24M12AHF		REGULATOR +12V		03
	JK001	V4874800	DIN Connector	DIN 6P MD-S613				02
	L0001	VQ724900	Chip Inductance	BK2125HM601-T				01
	-0003	VQ724900	Chip Inductance	BK2125HM601-T				01
	R0001	RD354470	Carbon Resistor (chip)	47 63M J				01
	-0003	RD354470	Carbon Resistor (chip)	47 63M J				01
	R0004	RD355100	Carbon Resistor (chip)	100 63M J				01
	-0009	RD355100	Carbon Resistor (chip)	100 63M J				01
	R0010	RD357470	Carbon Resistor (chip)	47K 63M J				01
	R0011	RD354470	Carbon Resistor (chip)	47 63M J				01
	-0016	RD354470	Carbon Resistor (chip)	47 63M J				01
	R0017	RD357100	Carbon Resistor (chip)	10K 63M J				01
	R0018	RD350000	Carbon Resistor (chip)	0 63M J				01
	R0019	RD357470	Carbon Resistor (chip)	47K 63M J				01
	R0020	RD357470	Carbon Resistor (chip)	47K 63M J				01
	R0021	RD354470	Carbon Resistor (chip)	47 63M J				01
	R0022	RD357100	Carbon Resistor (chip)	10K 63M J				01
	R0023	RD357100	Carbon Resistor (chip)	10K 63M J				01
	R0025	RD357100	Carbon Resistor (chip)	10K 63M J				01
	-0028	RD357100	Carbon Resistor (chip)	10K 63M J				01
	R0029	RD357470	Carbon Resistor (chip)	47K 63M J				01
	R0030	RD357470	Carbon Resistor (chip)	47K 63M J				01
	R0035	RD357100	Carbon Resistor (chip)	10K 63M J				01
	R0036	RD355330	Carbon Resistor (chip)	330 63M J				01
	R0037	RD357100	Carbon Resistor (chip)	10K 63M J				01
	R0038	RD356100	Carbon Resistor (chip)	1.0K 63M J				01
	R0039	RD354470	Carbon Resistor (chip)	47 63M J				01

*: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R0040	RD354470	Carbon Resistor (chip)	47 63M J				01
	R0041	RD357100	Carbon Resistor (chip)	10K 63M J				01
	R0048	RD355220	Carbon Resistor (chip)	220 63M J				01
	R0049	RD355820	Carbon Resistor (chip)	820 63M J				01
	R0050	RD355820	Carbon Resistor (chip)	820 63M J				01
	R0051	RD355220	Carbon Resistor (chip)	220 63M J				01
	R0052	RD355220	Carbon Resistor (chip)	220 63M J				01
	R0053	RD355560	Carbon Resistor (chip)	560 63M J				01
	R0054	RD355560	Carbon Resistor (chip)	560 63M J				01
	R0055	RD358470	Carbon Resistor (chip)	470K 63M J				01
	R0056	RD358470	Carbon Resistor (chip)	470K 63M J				01
	R0057	RD357100	Carbon Resistor (chip)	10K 63M J				01
	R0058	RD357220	Carbon Resistor (chip)	22K 63M J				01
	R0059	RD357100	Carbon Resistor (chip)	10K 63M J				01
	R0061	RD357100	Carbon Resistor (chip)	10K 63M J				01
	R0062	RD357220	Carbon Resistor (chip)	22K 63M J				01
	R0063	RD356100	Carbon Resistor (chip)	1.0K 63M J				01
	R0065	RD355100	Carbon Resistor (chip)	100 63M J				01
	R0066	RD355100	Carbon Resistor (chip)	100 63M J				01
	R0067	RD357100	Carbon Resistor (chip)	10K 63M J				01
	R0068	RD355100	Carbon Resistor (chip)	100 63M J				01
	R0069	RD356270	Carbon Resistor (chip)	2.7K 63M J				01
	R0071	RD355100	Carbon Resistor (chip)	100 63M J				01
	R0072	RD354100	Carbon Resistor (chip)	10 63M J				01
	R0073	RD354100	Carbon Resistor (chip)	10 63M J				01
	R0074	RD354100	Carbon Resistor (chip)	10 63M J				01
	R0075	RD354100	Carbon Resistor (chip)	10 63M J				01
	R0077	RD356470	Carbon Resistor (chip)	4.7K 63M J				01
	R0079	RD357100	Carbon Resistor (chip)	10K 63M J				01
	R0080	RD356560	Carbon Resistor (chip)	5.6K 63M J				01
	R0081	RD356560	Carbon Resistor (chip)	5.6K 63M J				01
	R0082	RD357100	Carbon Resistor (chip)	10K 63M J				01
	R0083	RD356470	Carbon Resistor (chip)	4.7K 63M J				01
	R0084	RD355470	Carbon Resistor (chip)	470.0 63M J				01
	R0085	RD355100	Carbon Resistor (chip)	100 63M J				01
	RY001	VK881200	Relay	DC G5Z-2AB				04
	TA001	XN153A00	IC	TD62083F-TP1				03
	TA002	VQ202400	Transistor Array	TD62785F SOURCE				04
	TR001	VD303700	Transistor	2SC3326 A,B TE85R				01
	TR002	VV556500	Transistor	2SA1037K Q,R,S				01
	TR003	VD303700	Transistor	2SC3326				01
	X0001	VZ703600	Quartz Crystal Unit	8.4672M SMD-49				03
	ZD001	VU172000	Zener Diode	UDZS5-6BTE-17 5.6V				01
		VZ705300	Circuit Board	GH-D H 1 2M		(XT241A0)		13
		VB390500	Connector Base Post	PH- 9P TE				03
		VB390800	Connector Base Post	PH-12P TE				01
		VB941200	Diode	1SS133,1SS176				01
*		V7411800	Circuit Board	HE-D L 1 2M		(XT240A0)		
		XR632A00	IC	YMZ702-D		KSN2		09
		VB390400	Connector Base Post	PH- 8P TE				01
		VB390500	Connector Base Post	PH- 9P TE				03
		VB390800	Connector Base Post	PH-12P TE				01
		VB941200	Diode	1SS133,1SS176				01
	C1	FG644100	Electrolytic Cap.	0.0100 50V Z				01
	-3	FG644100	Electrolytic Cap.	0.0100 50V Z				01
	C5	VF760000	Electrolytic Cap.	100.00 10.0V				01
	CL1	VI653000	Ceramic Resonator	CST4.00MGW040				01
	J1	--	Jumper Wire	0.55		(VD04170)		
	J2	--	Jumper Wire	0.55		(VD04170)		
	R1	HF759100	Carbon Resistor	1.0M 1/4 J				01
	R2	HF755100	Carbon Resistor	100.0 1/4 J				01
	R3	HF755100	Carbon Resistor	100.0 1/4 J				01
	R4	HF756100	Carbon Resistor	1.0K 1/4 J				01
	RA1	VU483500	Resistor Array	RGLD12X103J				01
		V5115100	Circuit Board	HP		(XU684A0)(XV858A0)		08
		VT890700	Earth Wire					01
	CN001	LB919070	Base Post Connector	XH 7P SE				01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS		QTY	RANK
CN002	VB858100	Connector Base Post	PH- 2P SE					01
C0001	FG413330	Ceramic Capacitor-B	3300P 50V K					01
-0005	FG413330	Ceramic Capacitor-B	3300P 50V K					01
C0006	UN847220	Electrolytic Cap.-BP	22.00 25.0V					01
C0007	UN847220	Electrolytic Cap.-BP	22.00 25.0V					01
FL001	VB971100	Coil	FL5R200QN					01
FL002	VB971100	Coil	FL5R200QN					01
FL003	GE300670	Ferrite Bead	BL02RN2-R62T4					02
FL003	VB871100	Ferrite Bead	BL02RN2-R62					01
FL004	VB971100	Coil	FL5R200QN					01
FL005	VB971100	Coil	FL5R200QN					01
FL006	GE300670	Ferrite Bead	BL02RN2-R62T4					02
FL006	VB871100	Ferrite Bead	BL02RN2-R62					01
HP001	LB101870	Phone Jack	YKB21-5006					03
HP002	LB101870	Phone Jack	YKB21-5006					03
R0001	HF455120	Carbon Resistor	120.0 1/4 J					01
-0004	HF455120	Carbon Resistor	120.0 1/4 J					01
R0001	HF755120	Carbon Resistor	120.0 1/4 J					01
-0004	HF755120	Carbon Resistor	120.0 1/4 J					01
R0002	HF455120	Carbon Resistor	120.0 1/4 J					01
R0002	HF755120	Carbon Resistor	120.0 1/4 J					01
R0003	HF455120	Carbon Resistor	120.0 1/4 J					01
R0003	HF755120	Carbon Resistor	120.0 1/4 J					01
R0005	HF455390	Carbon Resistor	390.0 1/4 J					01
R0005	HF755390	Carbon Resistor	390.0 1/4 J					01
R0006	HF455390	Carbon Resistor	390.0 1/4 J					01
R0006	HF755390	Carbon Resistor	390.0 1/4 J					01
	V4843300	Circuit Board	PNL		J,U	(XV490B0)		08
	V4843400	Circuit Board	PNR		J,U	(XV490B0)		08
	V2296000	Spacer						03
	--	Jumper Wire	0.55			(VD04170)		
CN001	VB858700	Connector Base Post	PH- 8P SE					01
CN002	VB858700	Connector Base Post	PH- 8P SE					01
CN003	VC166500	Connector Base Post	PH-12P SE					01
CN004	VB858700	Connector Base Post	PH- 8P SE					01
CN005	VC166500	Connector Base Post	PH-12P SE					01
D0001	VB941200	Diode	1SS133,1SS176					01
-0021	VB941200	Diode	1SS133,1SS176					01
LD001	VS150300	LED	SEL4214S TP5 RED		TRANSPOSE			01
LD002	VD180000	LED	SLZ-190B-03 RED		ROOM			01
LD003	VD180000	LED	SLZ-190B-03 RED		HALL 1			01
LD004	VD180000	LED	SLZ-190B-03 RED		HALL 2			01
LD005	VD180000	LED	SLZ-190B-03 RED		STAGE			01
LD006	VD180000	LED	SLZ-190B-03 RED		HARD			01
LD007	VD180000	LED	SLZ-190B-03 RED		MEDIUM			01
LD008	VD180000	LED	SLZ-190B-03 RED		SOFT			01
LD009	VS150300	LED	SEL4214S TP5 RED		GRAND PIANO			01
LD010	VS150300	LED	SEL4214S TP5 RED		E.PIANO			01
LD011	VS150300	LED	SEL4214S TP5 RED		HARPSICORD			01
LD012	VS150300	LED	SEL4214S TP5 RED		STRINGS			01
LD013	VS150300	LED	SEL4214S TP5 RED		PIPE ORGAN			01
LD014	VS150300	LED	SEL4214S TP5 RED		VARIATION			01
LD015	VS150300	LED	SEL4214S TP5 RED		FUNCTION			01
LD016	VS150300	LED	SEL4214S TP5 RED		SONG			01
LD017	VS150500	LED	SML12460C TP4RE/GR		TRACK 1			01
LD018	VS150500	LED	SML12460C TP4RE/GR		TRACK 2			01
LD019	VN135500	LED Display	LB-303VA		Display			06
R0001	HF754470	Carbon Resistor	47.0 1/4 J					01
-0007	HF754470	Carbon Resistor	47.0 1/4 J					01
R0010	--	Jumper Wire	0.55		(VD04170)			
R0012	--	Jumper Wire	0.55		(VD04170)			
R0020	--	Jumper Wire	0.55		(VD04170)			
R0022	--	Jumper Wire	0.55		(VD04170)			
SW001	VY759800	Tact Switch	SKQNAB		DEMO			01
SW002	VY759800	Tact Switch	SKQNAB		TRANSPOSE			01
SW003	VY759800	Tact Switch	SKQNAB		REVERB			01
SW004	VY759800	Tact Switch	SKQNAB		TOUCH			01
SW005	VY759800	Tact Switch	SKQNAB		GRAND PIANO			01
SW006	VY759800	Tact Switch	SKQNAB		E.PIANO			01

*: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS		QTY	RANK
	SW007	VY759800	Tact Switch	SKQNAB		HARPSICHORD			01
	SW008	VY759800	Tact Switch	SKQNAB		STRINGS			01
	SW009	VY759800	Tact Switch	SKQNAB		PIPE ORGAN			01
	SW010	VY759800	Tact Switch	SKQNAB		VARIATION			01
	SW011	VY759800	Tact Switch	SKQNAB		METRONOME			01
	SW012	VY759800	Tact Switch	SKQNAB		TEMPO DOWN			01
	SW013	VY759800	Tact Switch	SKQNAB		TEMPO UP			01
	SW014	VY759800	Tact Switch	SKQNAB		FUNCTION			01
	SW015	VY759800	Tact Switch	SKQNAB		SONG			01
	SW016	VY759800	Tact Switch	SKQNAB		-/NO			01
	SW017	VY759800	Tact Switch	SKQNAB		+/YES			01
	SW018	VY759800	Tact Switch	SKQNAB		START/STOP			01
	SW019	VY759800	Tact Switch	SKQNAB		REC			01
	SW020	VY759800	Tact Switch	SKQNAB		TRACK 1			01
	SW021	VY759800	Tact Switch	SKQNAB		TRACK 2			01
	VR001	V4007500	Slide Variable Resistor	1B10K RS30112A9A02		MASTER VOLUME			03
		V0010700	Circuit Board	PS		J	(XU372D0)		11
		V0010800	Circuit Board	PS		U	(XU372D0)		11
		V0011000	Circuit Board	PS		GE	(XU372D0)		11
		V0011100	Circuit Board	PS		N	(XU372D0)		12
		VT139600	Voltage Selector	M1684-E		N			04
		VT308100	AC Inlet	CCT9302-0101M		JGEN			02
		VT308200	AC Inlet	CCT9302-0201		U			02
		LB201530	Fuse Holder	PC-PH1					01
		--	Jumper Wire	0.55			(VD04170)		
⚠	C1	FI383470	Capacitor	4700P 400V U.C.S.V					01
⚠	C1	VY675100	Capacitor	4700P 250V J.U.C.S					01
⚠	C2	FI383470	Capacitor	4700P 400V U.C.S.V					01
⚠	C2	VY675100	Capacitor	4700P 250V J.U.C.S					01
⚠	C3	VT575200	Capacitor	0.01 400V J.U.C.S					01
⚠	C3	VY675000	Capacitor	0.010 250V J.U.C.S					01
	C4	UA654470	Mylar Capacitor	0.0470 50V J					01
	C5	V2126200	Electrolytic Cap.	10000 25.0V					04
	C6	UR866330	Electrolytic Cap.	3.30 50.0V		J			01
	C6	UJ866330	Electrolytic Cap.	3.30 50.0V					01
	CN1	LB932030	Base Post Connector	VH- 3P TE					01
	CN2	LB918050	Base Post Connector	XH 5P TE					01
	D1	VB481900	Diode	11ES4					01
	D1	VF195600	Diode	11ES4 TA1					01
	D2	VB481900	Diode	11ES4					01
	D2	VF195600	Diode	11ES4 TA1					01
	DB1	VN011300	Diode Stack	D3SBA20 4.0A 200V					03
⚠	F1	KB003570	Fuse	2.00A JU		JUN			
⚠	F1	KB003040	Fuse	1.00A S		GE			01
⚠	F2	KB003040	Fuse	1.00A S		N			01
⚠	F3	KB003630	Fuse	5.00A JU		JU			01
⚠	F3	KB003240	Fuse	5.00A S		GE			01
⚠	F3	KB003240	Fuse	5.00A S		N			01
	J1	--	Jumper Wire	0.55		J	(VD04170)		
	J2	--	Jumper Wire	0.55		U	(VD04170)		
⚠	L1	VF790900	Coil	SU10V-D20010					03
	R1	HF456100	Carbon Resistor	1.0K 1/4 J					01
	R1	HF756100	Carbon Resistor	1.0K 1/4 J					01
		VN637600	Circuit Board	PL(YCJ)			(XL151B0)		03
		VU659100	Circuit Board	PL(YMMA)			(XR898A0)		03
		VB858100	Connector Base Post	PH- 2P SE					01
		VD180000	LED	SLZ-190B-03 RED		power			01
		V2337300	Circuit Board	PEDAL			(XR780B0)		07
		VB390200	Connector Base Post	PH- 6P TE					01
		--	Jumper Wire	0.55			(VD04170)		
		--	GND Wire	L=30			(VZ01760)		
		V5771000	Headphone			J			07
⚠		VT015700	AC Cord Set	J 2 2.5m 7A		J			05
⚠		V2916900	AC Cord Set	J 2 7A 2.5m		J			05
⚠		V3126200	AC Cord Set	J 2 2.5m 7A		J			
⚠		VT015800	AC Cord Set	U2 2.44m 7A		U			06

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
⚠	V2917000	AC Cord Set	UC 2 7A 2.44m		U		06
⚠	V3126400	AC Cord Set	U 2 2.5m		U		
⚠	VT016000	AC Cord Set	B 2 2.5m		G		08
⚠	V3126500	AC Cord Set	B 2 2.5m		G		
⚠	VT015900	AC Cord Set	E 2 2.5m		EN		05
⚠	V2917100	AC Cord Set	E 2 2.5m 2.5A		EN		05
⚠	V3126300	AC Cord Set	E 2 2.5m		EN		
⚠	V0010200	Power Supply Unit			J		14
⚠	V0010300	Power Supply Unit			U		14
⚠	V0010400	Power Supply Unit			G,E		14
⚠	V0010500	Power Supply Unit			N		22
	V2035900	Cover, Power Supply Unit			U		07
	XS419A00	Speaker	16.0cm 4ohm 20W				08
	VU456000	Rubber Contact	1 PEDAL				03
	VC843500	Push Switch	SDDLB1216A J.U.C.S		Power		03
⚠	XU445A00	Power Transformer	J/UL/CSA A		J,U		09
⚠	XU446A00	Power Transformer	IEC65 E		E		09
⚠	XU447A00	Power Transformer	N IEC65 E		N		09

*: New Parts

RANK: Japan only

■ YDP-121 OVERALL CIRCUIT DIAGRAM (DA 1/2, DA 2/2)

DA 1/2

DA 2/2

28CC1-8819306 △

28CC1-8819306 △2

- **uPC24M12AHF**(XU387A00) REGULATOR +12V IC14

1: INPUT
2: GND
3: OUTPUT

- **uPC2933T-E1**(XS516A00) REGULATOR+3.3V IC3

1 : INPUT
2 : GND
3 : OUTPUT
4 : GND

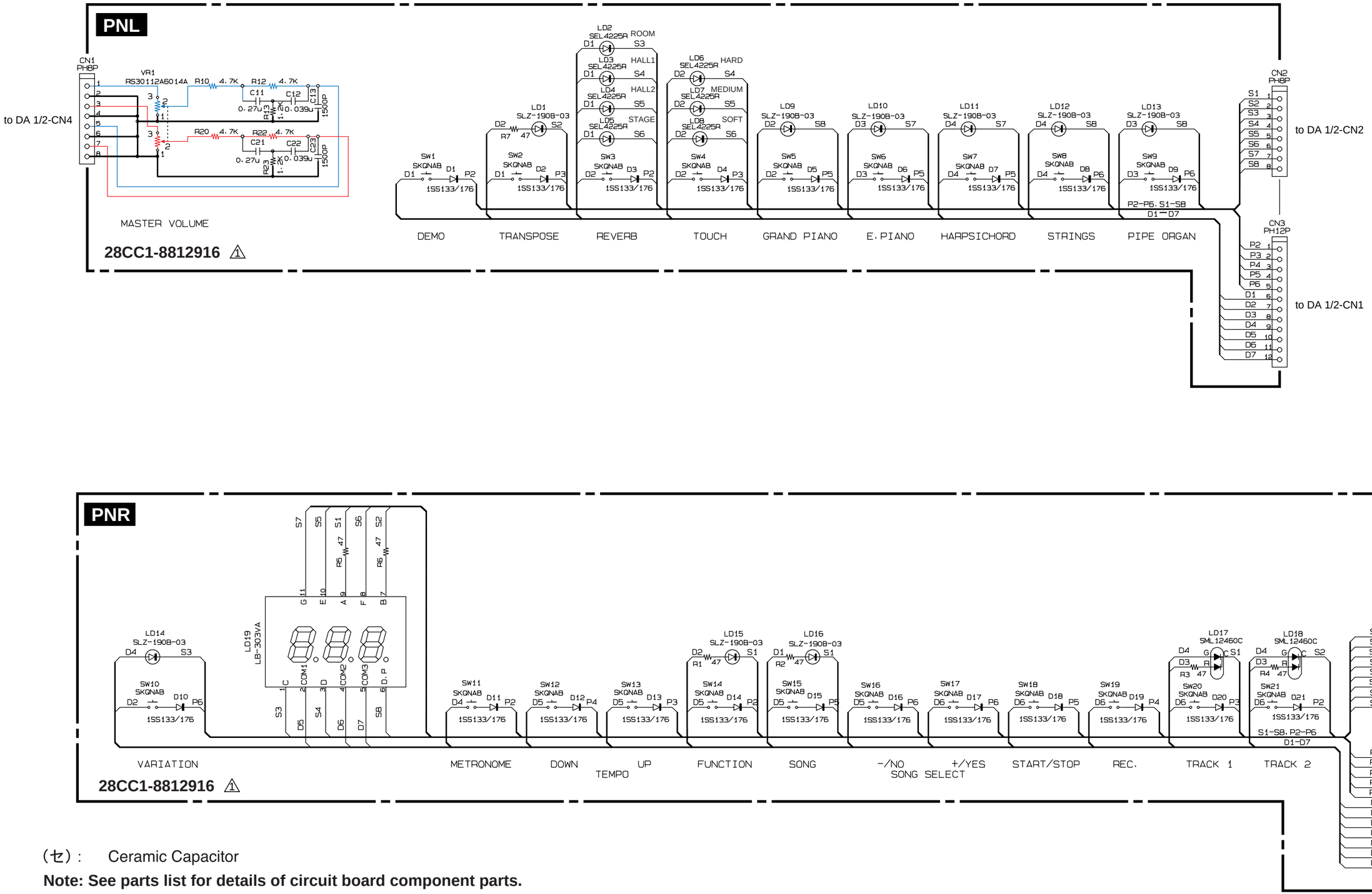
- **SI-8401L** (XR925A00) REGULATOR +5V IC4

1 : VOUT
2 : GND
3 : LIN
4 : VIN

(七)： Ceramic Capacitor

Note: See parts list for details of circuit board component parts.

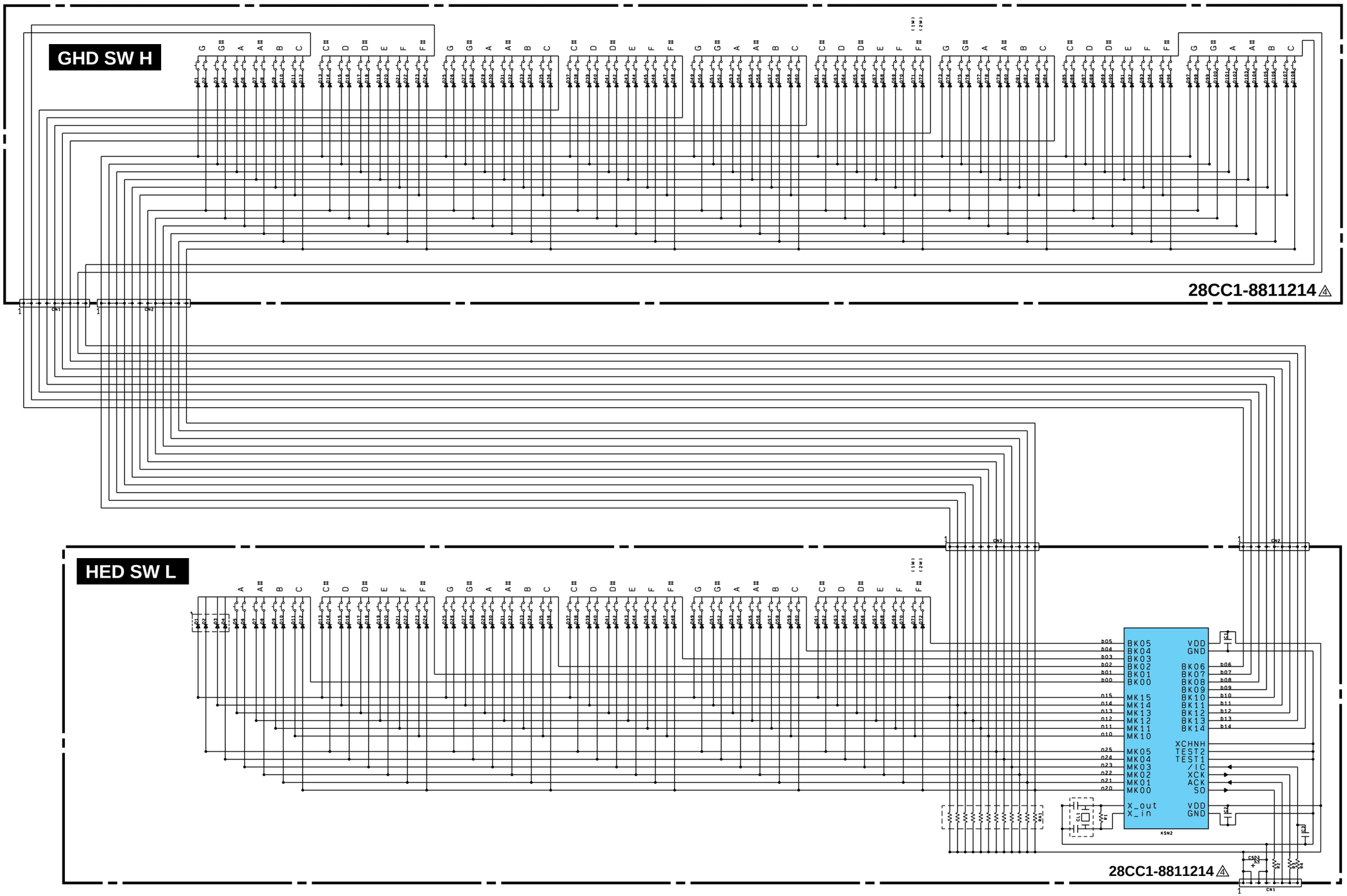
■ YDP-121 OVERALL CIRCUIT DIAGRAM (PNL, PNR)



(セ)： Ceramic Capacitor

Note: See parts list for details of circuit board component parts.

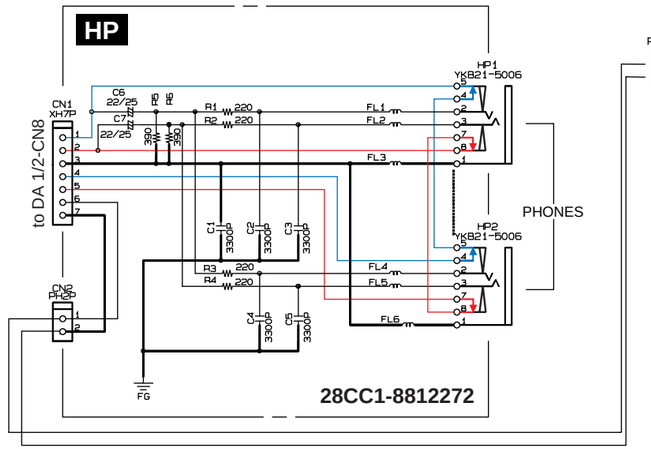
■ YDP-121 OVERALL CIRCUIT DIAGRAM (GHD-SW H, HED-SW L)

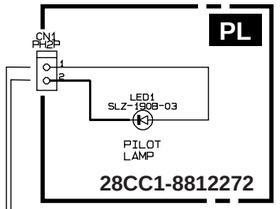


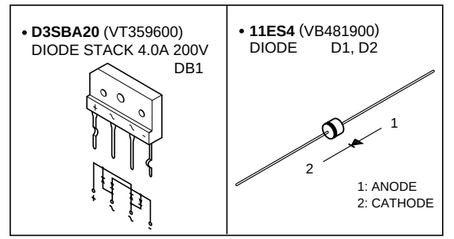
Note: See parts list for details of circuit board component parts.

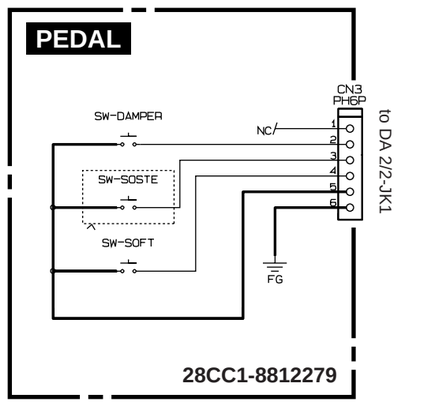
to DA 1/2-CN5

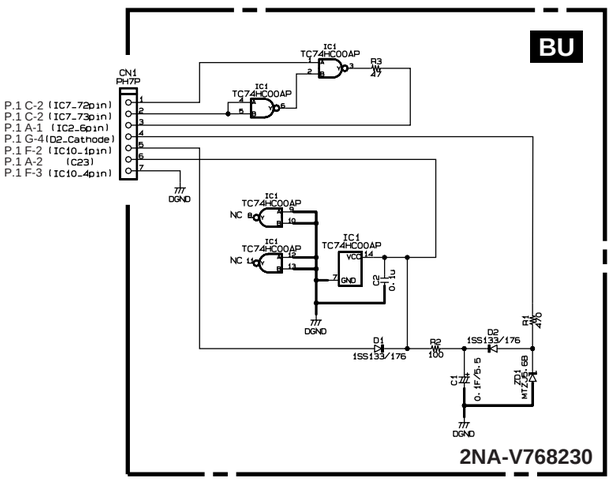
■ YDP-121 OVERALL CIRCUIT DIAGRAM (HP, PL, PEDAL, BU, PS)

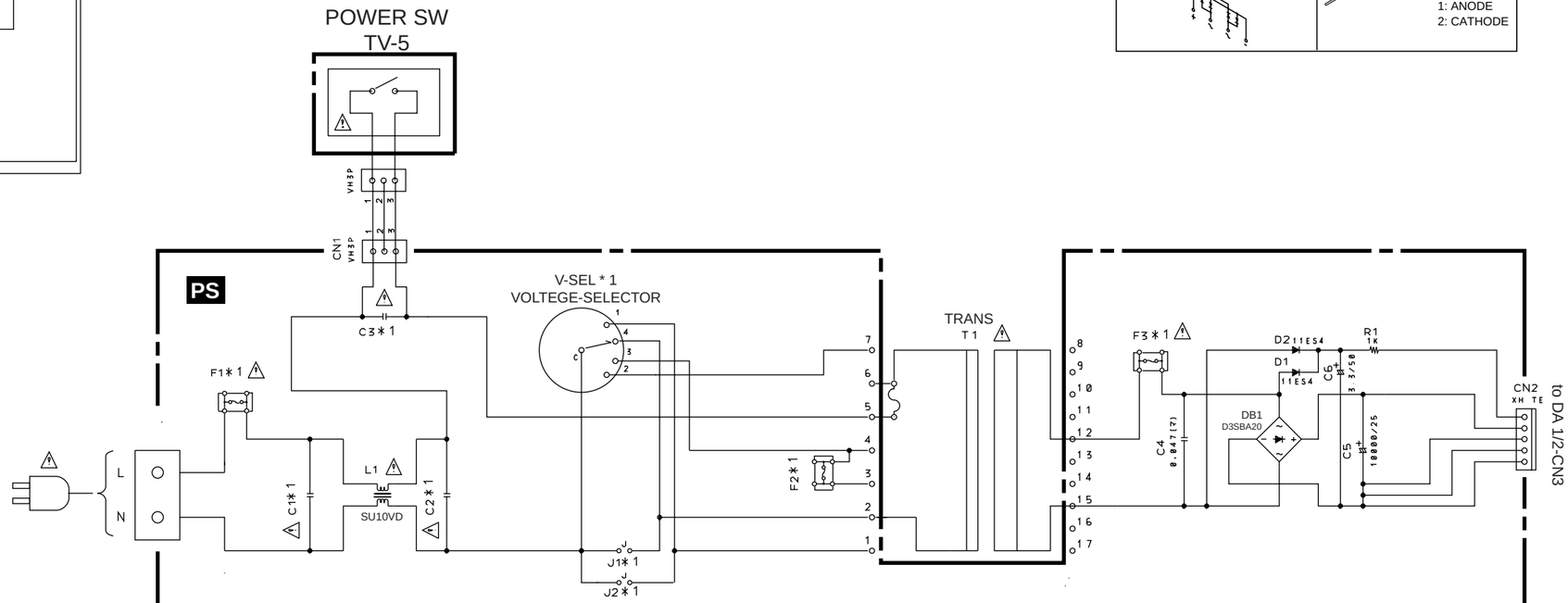












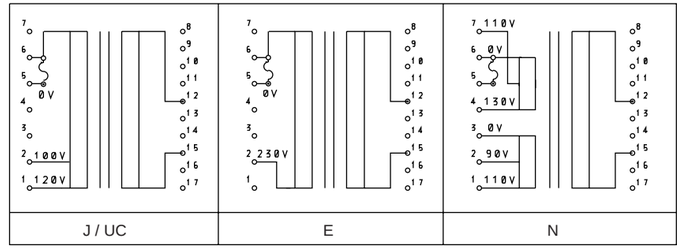
* 1 MODEL SPECIFICATION

DESTINATION	J	U / C	E	N
AC-IN	NONPOLARIZED	POLARIZED	NONPOLARIZED	NONPOLARIZED
V-SEL	Not installed	Not installed	Not installed	Installed
C1.C2	0.0047UF	0.0047UF /125V	0.0047UF /250V	0.0047UF /250V
C3	0.01UF	0.01UF /125V	0.01UF /250V	0.01UF /250V
J1	Installed	Not installed	Installed	—
J2	Not installed	Installed	Not installed	—
F1	2A	2A	T1AL	2A
F2	Not installed	Not installed	Not installed	T1AL
F3	5A	5A	T5AL	T5AL

The above drawing is for Japan

28CB1-8812254

TRANS SPECIFICATION



J / UC	E	N

Note: See parts list for details of circuit board component parts.

■ WARNING
Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.