

Clavinova[®]

CLP-920/CLP-930

SERVICE MANUAL



CLP-930



CLP-920

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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, therefore, 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 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.

■ WARNING

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

■ SPECIFICATIONS : CLP-920

KEYBOARD

88 KEYS (A-1~C-7)

POLYPHONY

32 NOTES MAX.

VOICES

4 voices

REVERB

ON / OFF

PEDAL CONTROLS

SOFT, DAMPER

OTHER CONTROL

MASTER VOLUME

JACKS / CONNECTORS

PHONES x2, AUX OUT R & L / L+R, AUX IN R & L / L+R,
MIDI IN / OUT / THRU, HOST SELECT, TO HOST, PEDAL

INPUT & OUTPUT LEVEL / IMPEDANCE

AUX OUT: Output impedance 600 ohm

AUX IN: Input impedance 10 kohm / Input sensitivity 0.26 V

MAIN AMPLIFIERS

20W x 2

SPEAKERS

16 cm x 2

POWER CONSUMPTION

35W

DIMENSIONS (W x D x H)

without music stand

1370 x 501 x 843 (54" x 19-3/4" x 33-1/4")

with music stand

1370 x 501 x 1030 (54" x 19-3/4" x 40-1/2")

WEIGHT

49.0 kg (108 lbs.)

■ SPECIFICATIONS : CLP-930

KEYBOARD

88 KEYS (A-1~C-7)

POLYPHONY

64 NOTES MAX.

VOICES

8 voices

REVERB

ROOM, HALL 1, HALL 2, STAGE

EFFECT

CHORUS, PHASER, TREMOLO, DELAY

TOUCH SENSITIVITY

HARD, MEDIUM, SOFT, FIXED

SONG CONTROLS

TRACK 1, TRACK 2, SONG [START / STOP], REC

PEDAL CONTROLS

SOFT, SOSTENUTO, DAMPER

OTHER CONTROLS

MASTER VOLUME, DEMO, TRANSPOSE, FUNCTION,
METRONOME [START/STOP], TEMPO/FUNCTION [▲]/[▼],
[-/NO]/[+/YES], PRESET SONG, LED Display

JACKS / CONNECTORS

PHONES x2, AUX OUT R&L/L+R, AUX IN R&L/L+R,
MIDI IN/OUT/THRU, HOST SELECT, TO HOST, PEDAL

INPUT & OUTPUT LEVEL / IMPEDANCE

AUX OUT: Output impedance 600 ohm

AUX IN: Input impedance 10 kohm / Input sensitivity 0.26 V

MAIN AMPLIFIERS

20W x 2

SPEAKERS

16 cm x 2

POWER CONSUMPTION

35w

DIMENSIONS (W x D x H)

without music stand

1370 x 501 x 843 (54" x 19-3/4" x 33-1/4")

with music stand

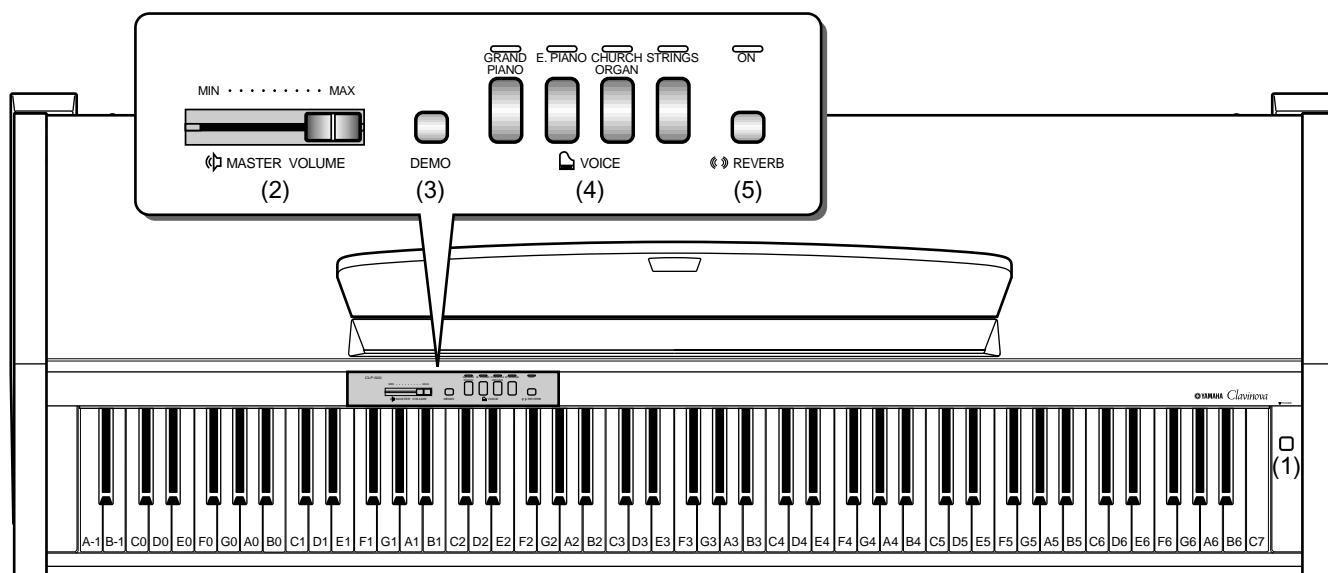
1370 x 501 x 1030 (54" x 19-3/4" x 40-1/2")

WEIGHT

50.0 kg (110.2 lbs.)

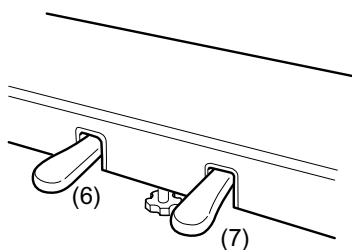
■ PANEL LAYOUT : CLP-920

● Control Panel

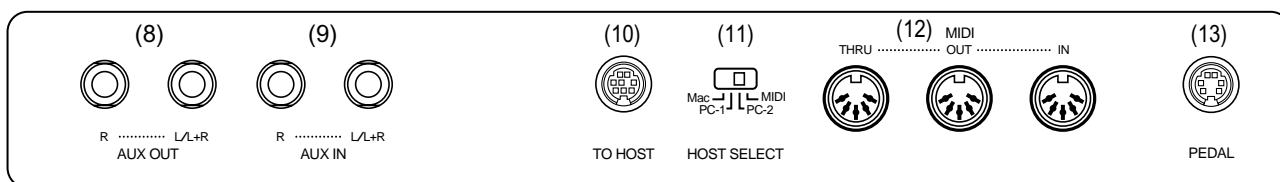


- (1) [POWER] Switch
- (2) [MASTER VOLUME] Control
- (3) [DEMO] Button
- (4) Voice Selectors
- (5) [REVERB] Button

● Pedals



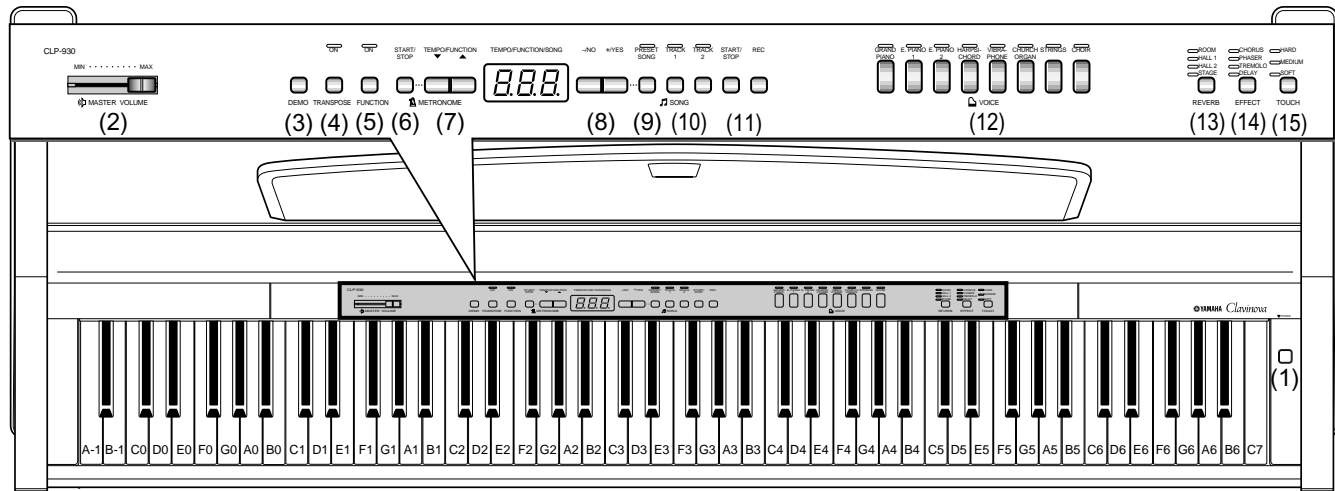
● Rear Panel



- (6) Soft Pedal
- (7) Damper Pedal
- (8) AUX OUT (R) (L / L + R)
- (9) AUX IN (R) (L / L + R)
- (10) TO HOST
- (11) HOST SELECT
- (12) MIDI (IN) (OUT) (THRU)
- (13) PEDAL

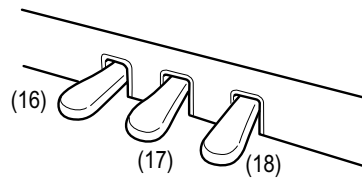
■ PANEL LAYOUT : CLP-930

● Control Panel

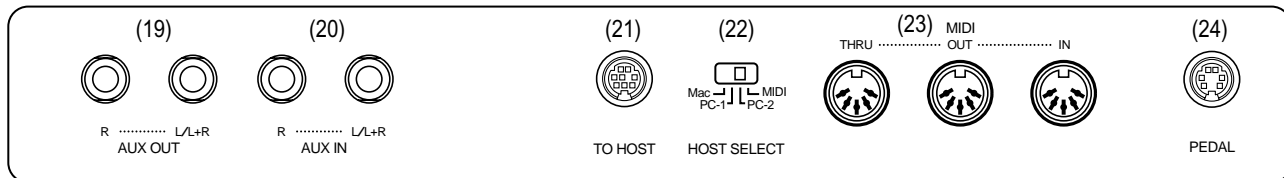


- (1) [POWER] Switch
- (2) [MASTER VOLUME] Control
- (3) [DEMO] Button
- (4) [TRANSPOSE] Button
- (5) [FUNCTION] Button
- (6) METRONOME [START / STOP] Button
- (7) [TEMPO / FUNCTION ▼, ▲] Buttons
- (8) [- / NO], [+ / YES] Buttons
- (9) [PRESET SONG] Button
- (10) TRACK [1] and [2] Buttons
- (11) SONG [START / STOP] and [REC] Buttons
- (12) [VOICE SELECTORS] Button
- (13) [REVERB] Button
- (14) [EFFECT] Button
- (15) [TOUCH] Button

● Pedals



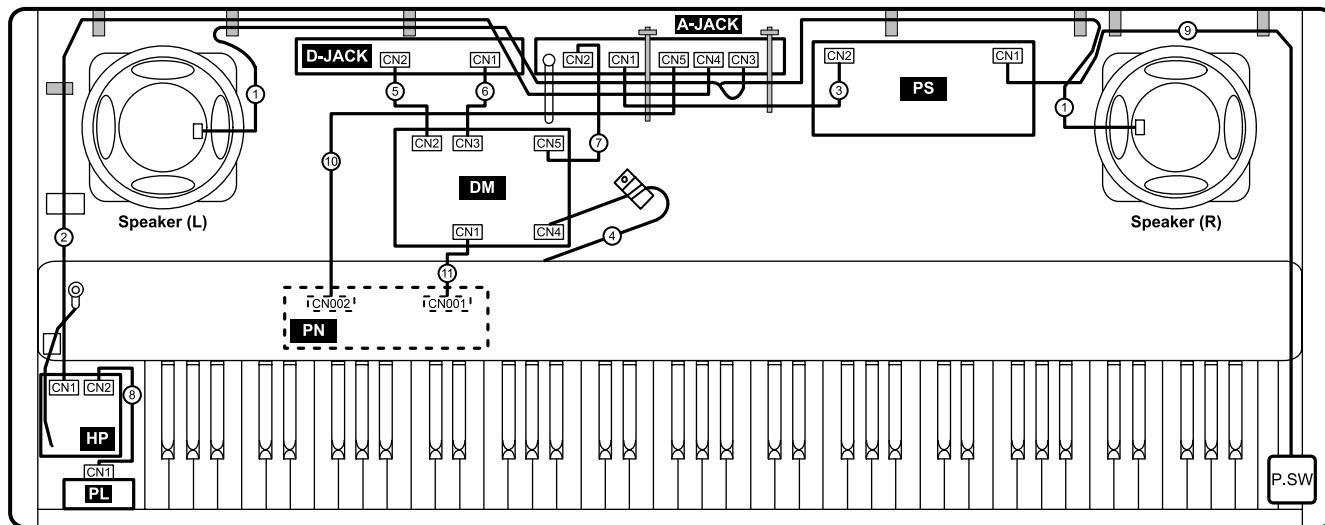
● Rear Panel



- (16) Soft Pedal
- (17) Sostenuto Pedal
- (18) Damper Pedal
- (19) AUX OUT (R) (L / L + R)
- (20) AUX IN (R) (L / L + R)
- (21) TO HOST
- (22) HOST SELECT
- (23) MIDI (IN) (OUT) (THRU)
- (24) PEDAL

CIRCUIT BOARD LAYOUT


● CLP-920




LOCATION	PARTS LIST REFNO.	CONNECTOR NAME	PIN / LENGTH	DESTINATION	
①	MAIN UNIT [26]	SP	4P	A-JACK-CN3	SP Lch WH / BL SP Rch RE / BL
②	MAIN UNIT [27]	HP	7P	A-JACK-CN4	HP-CN1
③	MAIN UNIT [28]	POWER SUPPLY	5P	PS-CN2	A-JACK-CN1
④	MAIN UNIT [29]	MK-LF	8P	DM-CN4	AEXL88L-CN1
⑤	MAIN UNIT [32]	KRD-KRD	5P / L=150	DM-CN2	D-JACK-CN2
⑥	MAIN UNIT [33]	KRD-KRD	10P / L=100	DM-CN3	D-JACK-CN1
⑦	MAIN UNIT [35]	KRD-KRD	11P / L=150	A-JACK-CN2	DM-CN5
⑧	FRONT RAIL [F6]	KRD-KRD	2P / L=150	HP-CN2	PL-CN1
⑨	END BLOCK [4]	PSW	3P	POWER SW	PS-CN1
⑩	PANEL [16]	VOL	8P / L=400	A-JACK-CN5	PN-CN002
⑪	PANEL [17]	KRD-KRD	12P / L=200	DM-CN1	PN-CN001

NOTE: The symbols in above drawing described below.


 : Filament Tape

 : Code Binder

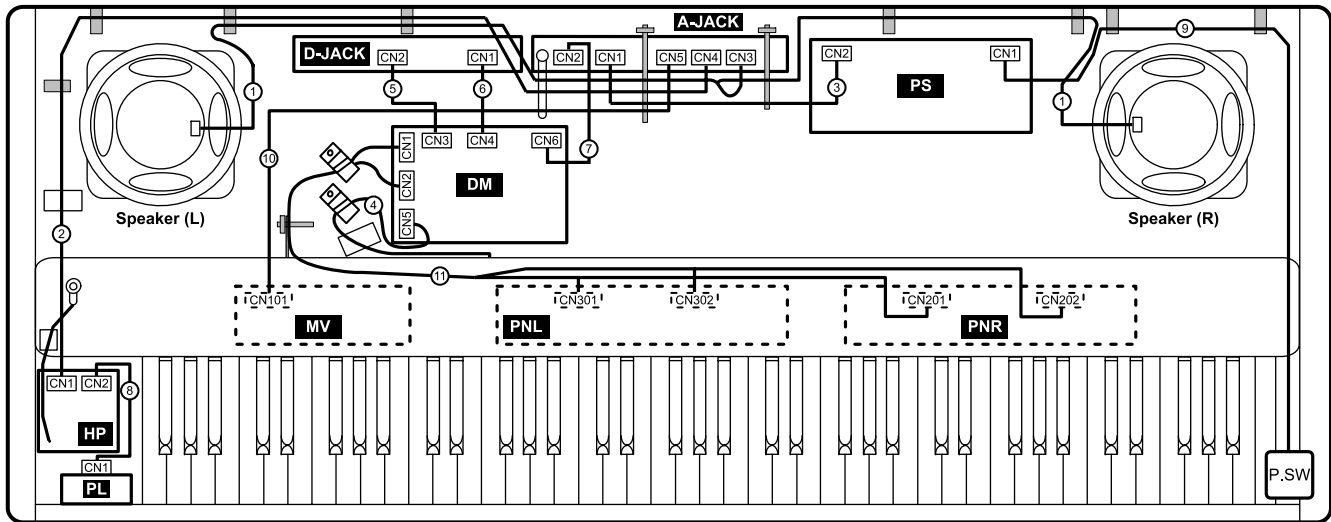
 : Ferrite Core

 : Insulation Lock Tie

 : Cable Holder

 : Connector Direction


● CLP-930




LOCATION	PARTS LIST REF NO.	CONNECTOR NAME	PIN / LENGTH	DESTINATION		
①	MAIN UNIT [26]	SP	4P	A-JACK-CN3	SP Lch WH / BL SP Rch RE / BL	
②	MAIN UNIT [27]	HP	7P	A-JACK-CN4	HP-CN1	
③	MAIN UNIT [28]	POWER SUPPLY	5P	PS-CN2	A-JACK-CN1	
④	MAIN UNIT [29]	MK-LF	8P	DM-CN5	AEXL88L-CN1	
⑤	MAIN UNIT [32]	KRD-KRD	5P / L=150	DM-CN3	D-JACK-CN2	
⑥	MAIN UNIT [33]	KRD-KRD	10P / L=100	DM-CN4	D-JACK-CN1	
⑦	MAIN UNIT [35]	KRD-KRD	11P / L=150	A-JACK-CN2	DM-CN6	
⑧	FRONT RAIL [F6]	KRD-KRD	2P / L=150	HP-CN2	PL-CN1	
⑨	END BLOCK [4]	PSW	3P	POWER SW	PS-CN1	
⑩	PANEL [16]	VOL	8P / L=400	A-JACK-CN5	MV-CN101	
⑪	PANEL [17]	PN-LF	9P	DM-CN1	PNL-CN301	PNR-CN201
				DM-CN2	PNL-CN302	PNR-CN202

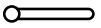
NOTE: The symbols in above drawing described below.


: Filament Tape

: Code Binder

: Ferrite Core

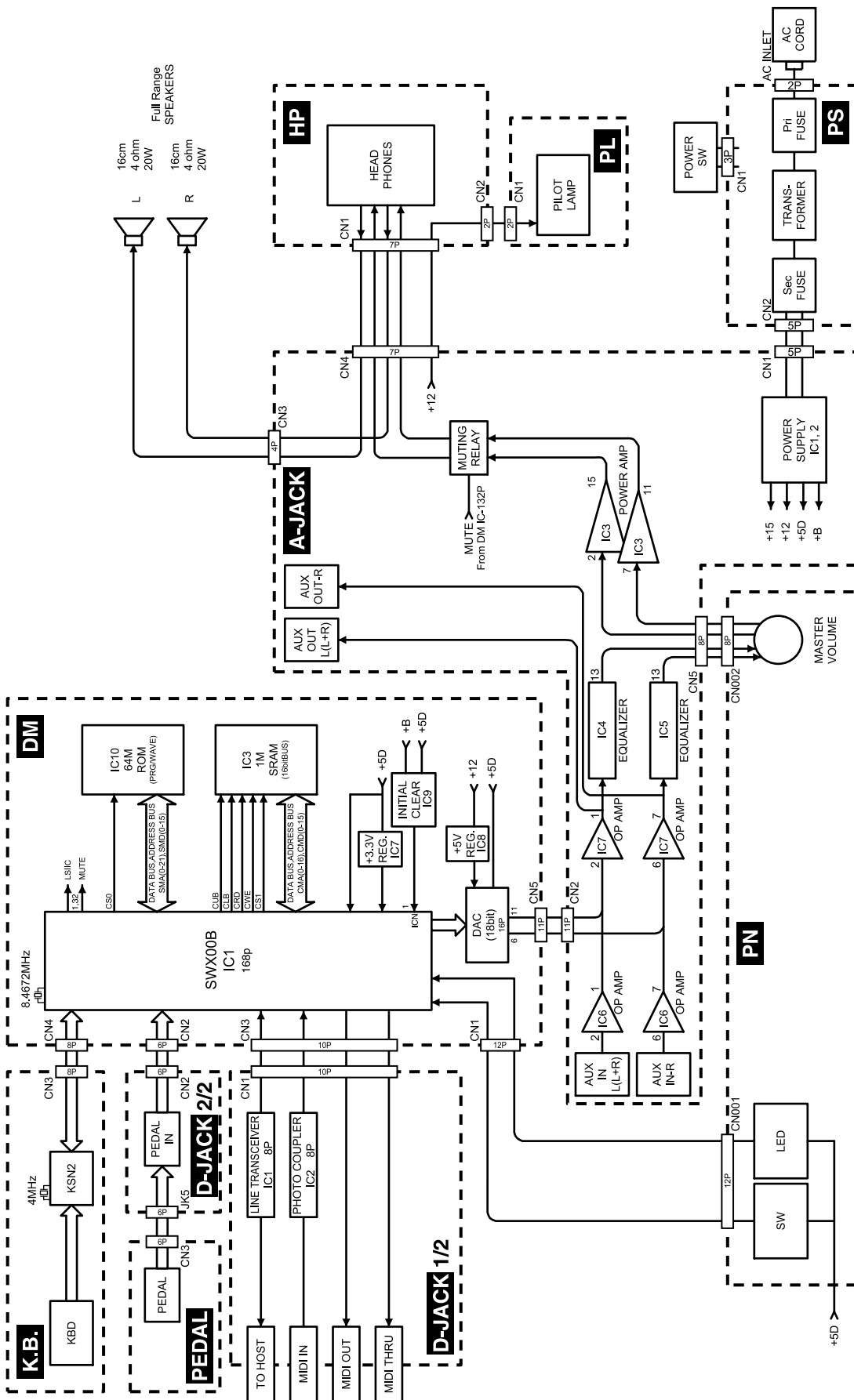
: Insulation Lock Tie

: Cable Holder

: Connector Direction



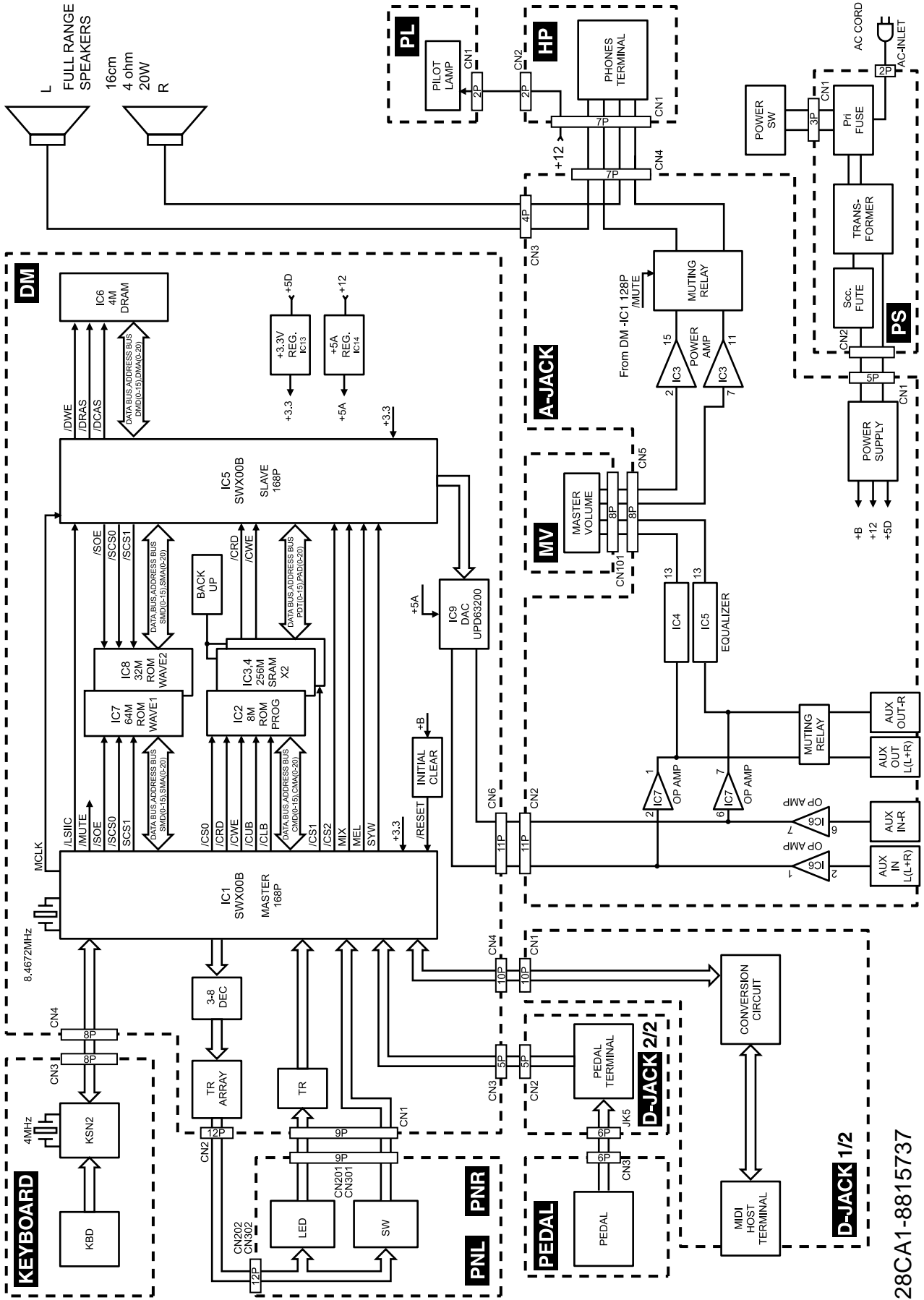
■ BLOCK DIAGRAM



● CLP-920

28CA1-8815747

● CLP-930

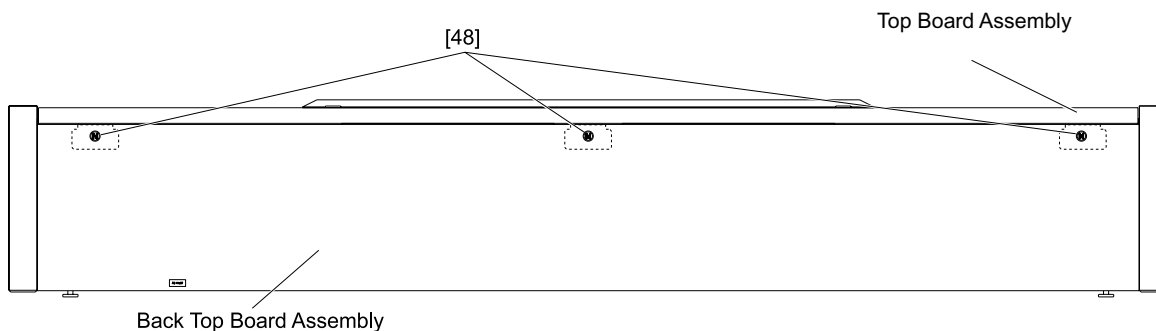


28CA1-8815737

DISASSEMBLY PROCEDURE

1 Top Board Assembly

Remove the three (3) screws marked [48], hold the top board with both hands, slide it to the front, and then lift it up. (Fig. 1)



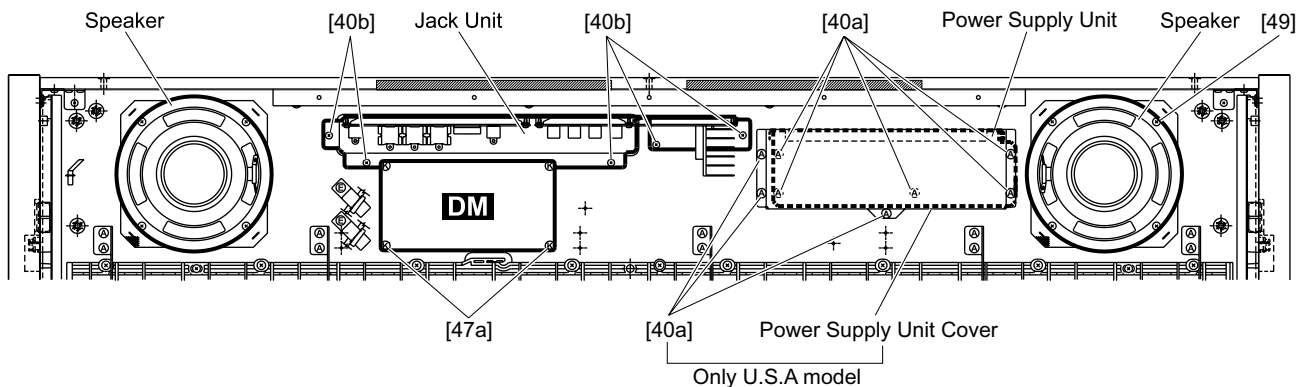
(Fig. 1)

2 Circuit Boards

After removing the Top Board Assembly, remove the following screws. Each circuit board can then be removed. (Fig. 2)

Circuit Board and Unit	Ref.No.	Screw	Qty
DM	47a	Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600190)	4
Power Supply Unit *1	40a	Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600190)	5
Speaker	49	Truss Head Tapping Screw-B 4.0X20 MFZN2Y (20338800)	8

*1: U.S.A model. After removed the five [5] screws marked [40a] and the Power Supply Unit Cover.



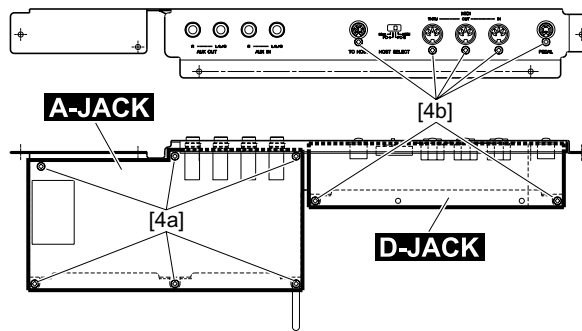
(Fig. 2)

3 Jack Unit

- 3-1 Remove the top board assembly. (See procedure 1.)
- 3-2 Remove the Five [5] screws marked [40b]. The jack unit can then be removed. (Fig. 2)

* After removing the jack unit, remove the following screws. Each circuit board can then be removed. (Fig. 3)

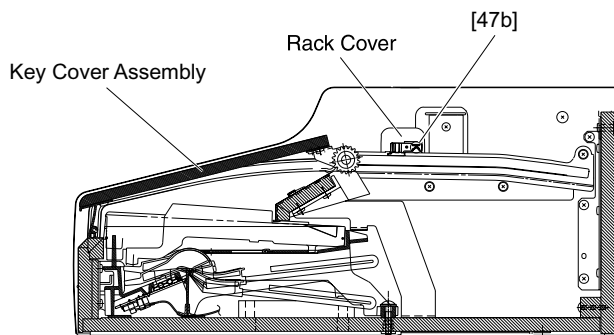
Circuit Board and Unit	Ref.No.	Screw	Qty
A-JACK	4a	Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600190)	6
D-JACK	4b	Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600190)	7



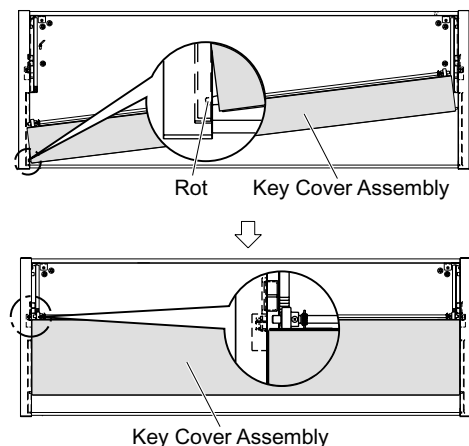
(Fig. 3)

4 Key Cover Assembly

- 4-1 Remove the top board assembly. (See procedure 1.)
- 4-2 Remove the two [2] screws marked [47b]. The rack cover can then be removed. (Fig. 4)
- 4-3 Set the left end of the rot at the slits of the guide and then lift the key cover assembly.
- 4-4 Lean slightly the key cover assembly so that the rot can be removed from the guide rail. When removing, be sure not to make scratches on the sideboard. (Fig. 5)



(Fig. 4)



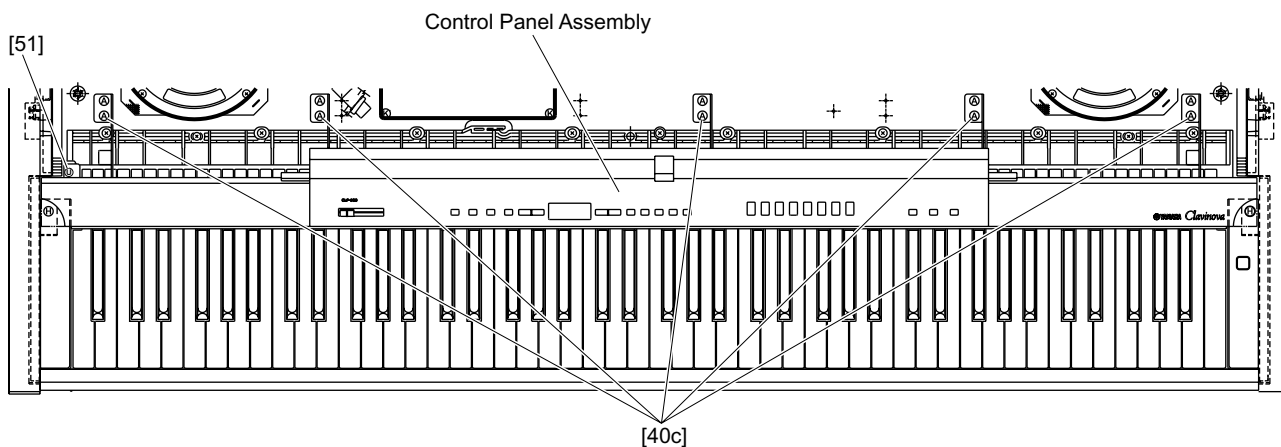
(Fig. 5)

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

5 Control Panel Assembly

- 5-1 Remove the top board assembly. (See procedure 1.)
- 5-2 Remove the key cover assembly. (See procedure 4.)
- 5-3 Remove the ten (10) screws marked [40c] and the screw marked [51]. The control panel assembly can then be removed. (Fig. 6)

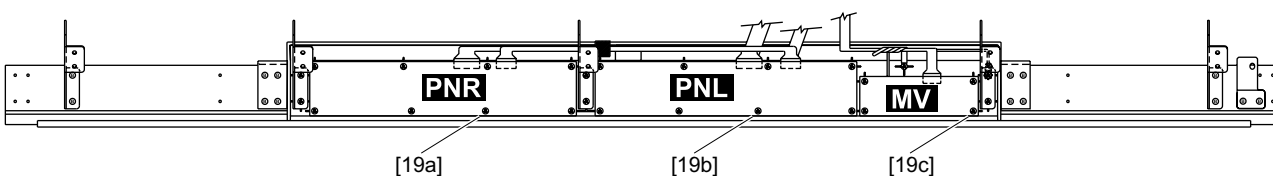
* To remove these units, remove the screws listed below. (Fig. 7,8)



(Fig. 6)

***Only for CLP-930**

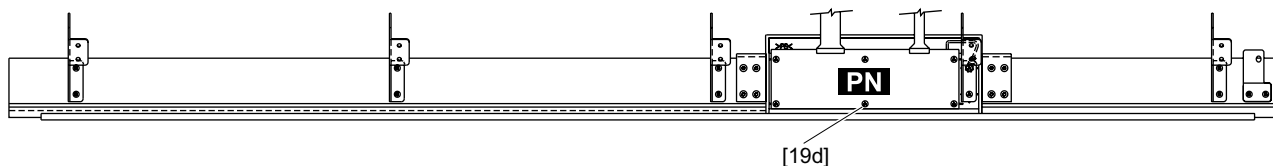
Circuit Board and Unit	Ref.No.	Screw	Qty
PNR	19a	Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600250)	8
PNL	19b	Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600250)	8
MV	19c	Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600250)	4



(Fig. 7)

***Only for CLP-920**

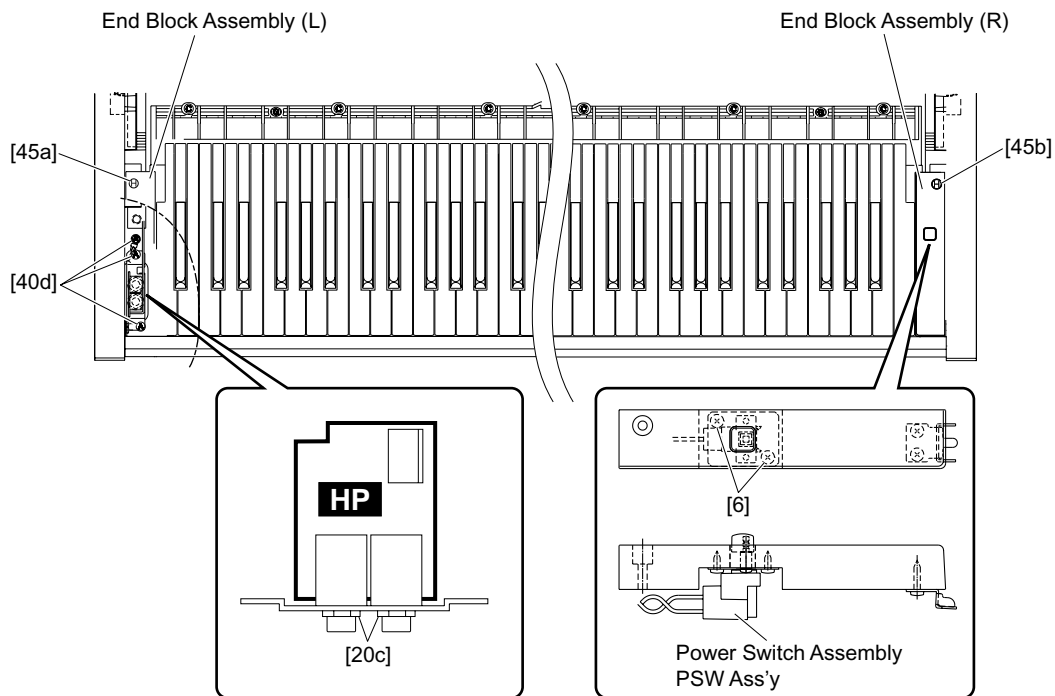
Circuit Board and Unit	Ref.No.	Screw	Qty
PN	19d	Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600250)	6



(Fig. 8)

6 HP Circuit Board

- 6-1 Remove the top board assembly. (See procedure 1.)
- 6-2 Remove the key cover assembly. (See procedure 4.)
- 6-3 Remove the control panel assembly. (See procedure 5-3.)
- 6-4 Remove the screw marked [45a]. The left end block assembly can then be removed. (Fig. 9)
- 6-5 Remove the three (3) screws marked [40d]. The headphones jack Assembly can then be removed. (Fig. 9)
- 6-6 Remove the two (2) nuts marked [20c]. The phone jack holder can then be removed from HP circuit board. (Fig. 9)



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

[45]: Truss Head Tapping Screw-1 3.5X30 MFZN2BL (VU952600)

(Fig. 9)

7 PSW Assembly

- 7-1 Remove the top board assembly. (See procedure 1.)
- 7-2 Remove the key cover assembly. (See procedure 4.)
- 7-3 Remove the control panel assembly. (See procedure 5-3.)
- 7-4 Remove the screw marked [45b]. The right end block assembly can then be removed. (Fig. 9)
- 7-5 Remove the two (2) screws marked [6]. The power switch assembly can then be removed. (Fig. 9)

8 Keyboard assembly

- 8-1 Remove the top board assembly. (See procedure 1.)
- 8-2 Remove the key cover assembly. (See procedure 4.)
- 8-3 Remove the control panel assembly. (See procedure 5-3.)
- 8-4 Remove the left end block assembly. (See procedure 6-4.)
- 8-5 Remove The right end block assembly.(See procedure 7-4.)
- 8-6 Remove the nine (9) screws marked [42] and the two (2) screws marked [44]. The keyboard assembly can then be removed. (Fig. 10)

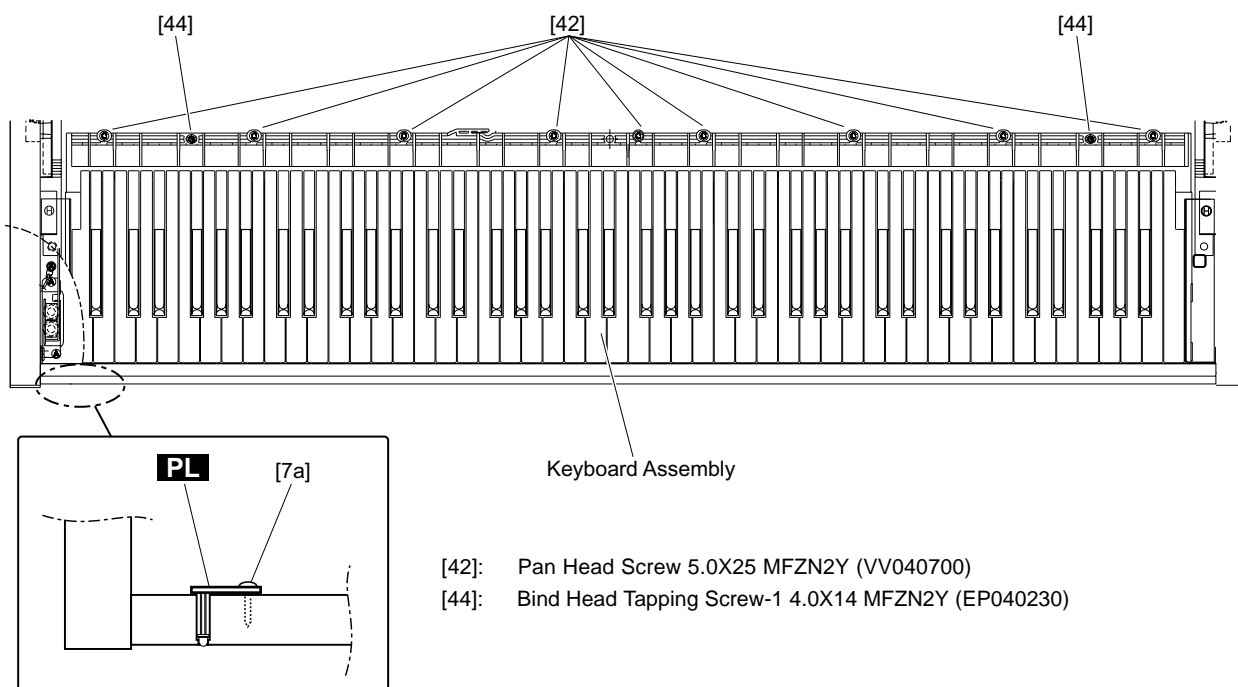
* Slide the keyboard unit backward, lift the front side at the center of the frame, and raise up the GH keyboard assembly to remove.

* Removing the GH keyboard assembly without raising up can cause the keyboard unit twisted and the frame can be damaged.

* When reinstalling, fasten the screw marked [44], then the screw marked [42].

9 PL Circuit Board

- 9-1 Remove the top board assembly. (See procedure 1.)
- 9-2 Remove the key cover assembly. (See procedure 4.)
- 9-3 Remove the control panel assembly. (See procedure 5-3.)
- 9-4 Remove the keyboard assembly. (See procedure 8.)
- 9-5 Remove the screw marked [7a]. The PL circuit board can then be removed. (Fig. 10)

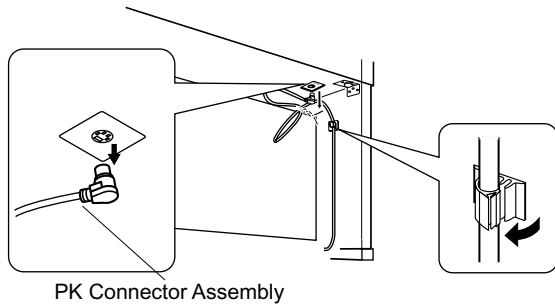


(Fig. 10)

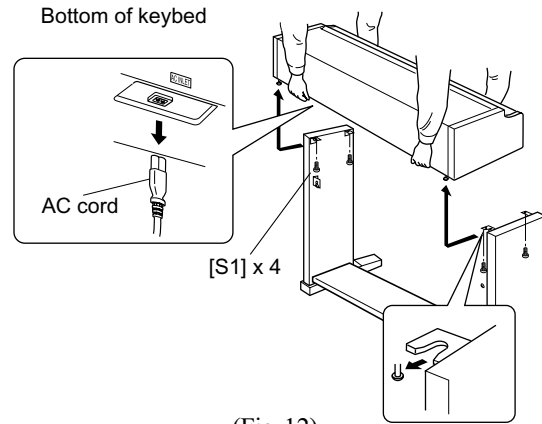
10 Main Unit

- 10-1 Disconnect the PK cable. (Fig. 11)
- 10-2 Disconnect the AC cord. (Fig. 12)
- 10-3 Remove the four (4) screws marked [S1] . Lift the main unit up slightly and then slide it to backward and then lift it up. (Fig. 12)

* 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.



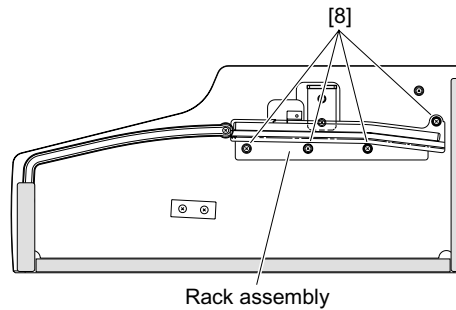
(Fig. 11)



(Fig. 12)

11 Rack Assembly

- 11-1 Remove the top board assembly. (See procedure 1.)
- 11-2 Remove the key cover assembly. (See procedure 4.)
- 11-3 Remove the control panel assembly. (See procedure 5-3.)
- 11-4 Remove the keyboard assembly. (See procedure 8.)
- 11-5 Remove the six (6) screws marked [8]. The Rack assembly can then be removed. (Fig. 13)



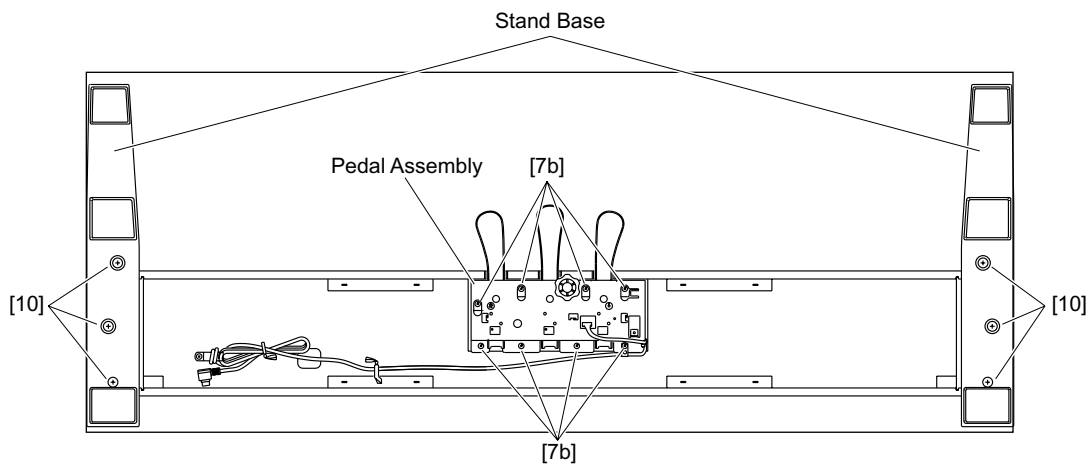
(Fig. 13)

12 Pedal Assembly

- 12-1 Disconnect the PK cable. (See procedure 10-1.)
- 12-2 Place the back of the unit on a soft blanket.
- 12-3 Remove the eight (8) screws marked [7b]. The pedal assembly can then be removed. (Fig. 14)

13 Stand Base Assembly

- 13-1 Place the back of the unit on a soft blanket.
- 13-2 Remove the three (3) screws marked [10]. The stand base assembly can then be removed. (Fig. 14)



(Fig. 14)

14 Disassembling the GH Keyboard

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

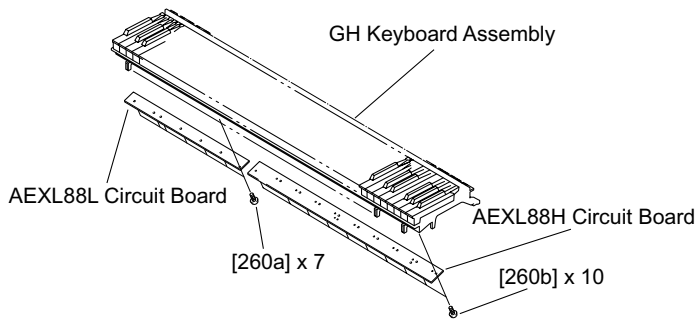
14-A AEXL88-L circuit board

Remove the seven (7) screws marked [260a]. The AEXL88-L circuit board can then be removed. (Fig. 15)

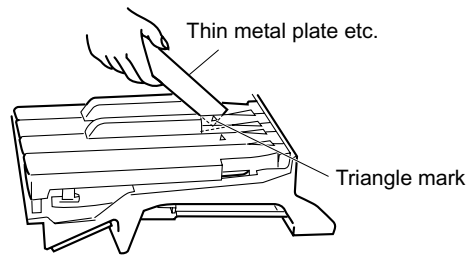
14-B AEXL88-H circuit board

Remove the ten (10) screws marked [260b]. The AEXL88-H circuit board can then be removed. (Fig. 15)

* Keys can be removed without removing the circuit boards.



(Fig. 15)



(Fig. 16)

14-C 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. 16, 17)

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

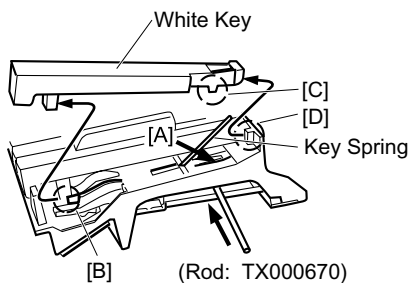
* A black key can be removed after both adjacent white keys have been removed.

14-D Hammer, White Key

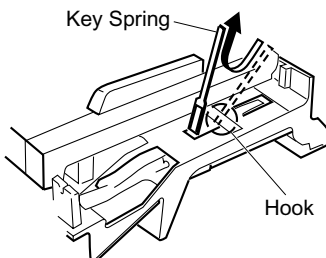
After a key has been removed, push the key spring down once to take it out of the hook. (Fig. 18)

Place the GH keyboard assembly upside down and peel away then stopper L88. The hammer of the white key can then be removed. (Fig. 19)

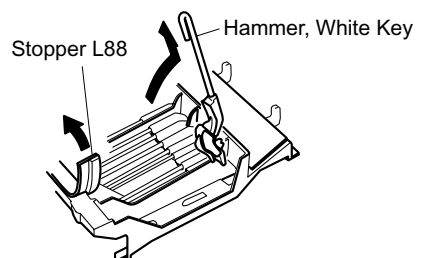
* The hammer of a black key can be removed in the same manner.



(Fig. 17)



(Fig. 18)



(Fig. 19)

15 Assembling the GH keyboard

15-A Hammer of White (Black) Key

Place the GH keyboard assembly upside down, insert a hammer assembly into the frame, and put the stopper L88 on. (Fig. 20)

* There are four kinds of hammers that differ in weight. (See parts list.)

15-B Key Spring

Place the GH keyboard assembly rightside up, and fix a key spring to the frame by setting it at the slit and pushing it down once. (Fig. 21)

* Be careful of the direction of the spring.

15-C 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. 22)

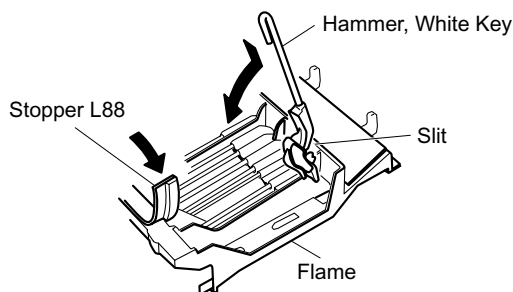
15-D AEXL88-L circuit board

Tighten the seven (7) screws marked [260a] to fix the AEXL88-L circuit board. (Fig. 15)

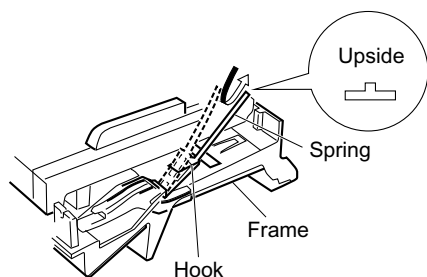
15-E AEXL88-H circuit board

Tighten the ten (10) screws marked [260b] to fix the AEXL88-H circuit board. (Fig. 15)

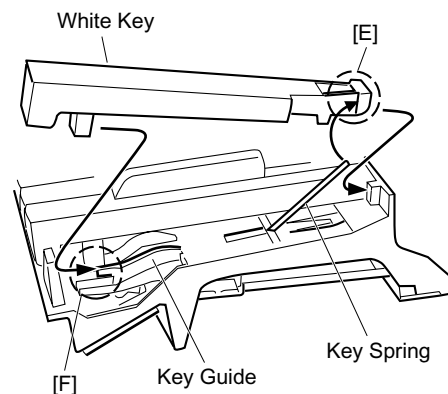
* Set the slits of the rubber contact at the makes on the frame.



(Fig. 20)



(Fig. 21)



(Fig. 22)

LSI PIN DISCRIPTION

● HG73C205AFD (XU947C00) SWX00B TONE GENERATOR

DM: IC 1

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	} Program memory Data bus
22	EXCLK	I	Crystal oscillator	106	CMD8	I/O	
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	
38	SMD7	I/O		122	CMD15	I/O	Program memory Data bus
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	
50	GND50		Ground	134	GND134		Ground
51	SMA1	O	} Memory address bus	135	PDT7	I/O	
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	146	PAD1	I		
63	SMA6	O	147	PAD0	I		
64	SMA10	O	} Memory address bus	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	159	DO1	O		
76	CMA19	O	160	SYSCCLK	O	1/2 clock	
77	VCC77		Power supply	161	VCC161		Power supply
78	GND78		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	Interrupt request

● uPD63200GS-E1 (XP867A00) DAC (Digital to Analog Converter)

DM: [CLP-920] IC 4, [CLP-930] IC 9

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	16bit/18bit selection	11	L.OUT	O	Channel L output
4	D.GND		Digital power supply	12	A.GND		Analog ground
5	A.GND		Analog ground	19	WDCK	I	Word clock
6	R.OUT	O	Channel R output	20	RSI	I	Channel R series input
7	A.VDD		Analog power supply	21	SI/LSI	I	Series input/Channel L series input
8	A.VDD			22	CLK	I	Clock

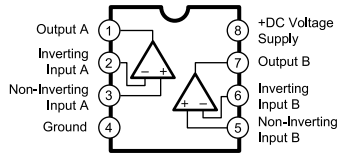
● YMZ702-D (XR632A00) KSN2 (Key Scanner)

AEXL-88L: KSN2

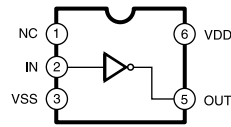
PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	BK5	O	Key block (open drain)	21	GND		Ground
2	BK4	O		22	VDD		Power supply
3	BK3	O		23	SO	O	Serial data
4	BK2	O		24	ACK	I	Acknowledge/mode select
5	BK1	O		25	XCK	I	Clock for serial data
6	BK0	O		26	/IC	I	Initial clear
7	MK15	I	First make contact	27	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 drain)
11	MK11	I		31	BK13	O	
12	MK10	I		32	BK12	O	
13	MK05	I	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	Second make contact	38	BK6	O	
19	XIN	I		39	GND		Ground
20	XOUT	O	Crystal osc. output (4 MHz)	40	VDD		Power supply

IC BLOCK DIAGRAM

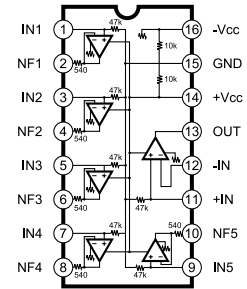
- **μ PC4570G2** (XF291A00)
Dual Operational Amplifier
A-jack: IC6, 7



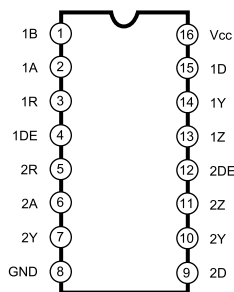
- **SC7SU04FEL** (XI348A00)
Hex Inverter
D-jack: IC1



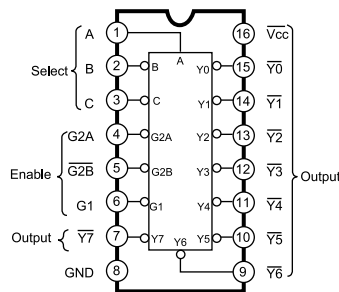
- **M5227FP** (XT773A00)
Hex 3-State Bus Inverter
A-jack: IC4, 5



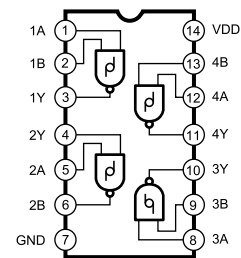
- **SN75C1168NSR** (XU073A00)
Line Driver / Receiver
D-jack: IC2



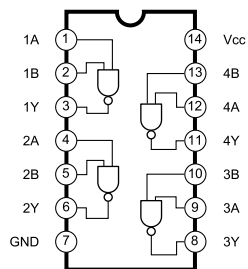
- **TC74HC138AFEL** (XW762A00)
SN74HC138NSR (XW793A00)
MM74HC138SJX (XY353A00)
3 to 8 Demultiplexer DM: [930] IC11



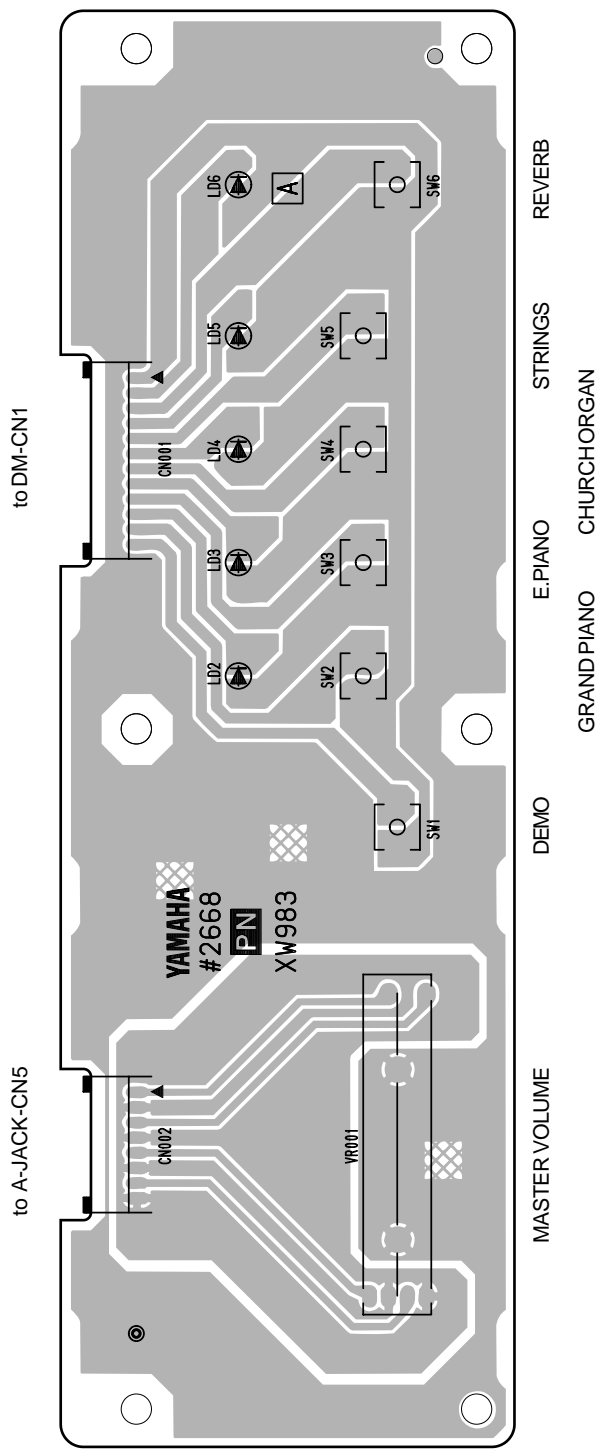
- **SN74HC132NSR** (XW792A00)
MM74HC132SJX (XY352A00)
Quad 2 Input NAND
DM: [920] IC9, [930] IC12



- **MM74HCT00SJX** (XY119A00)
TC74HCT00AF (XY120A00)
NAND DM: [930] IC10



● PN CIRCUIT BOARD (CLP-920)

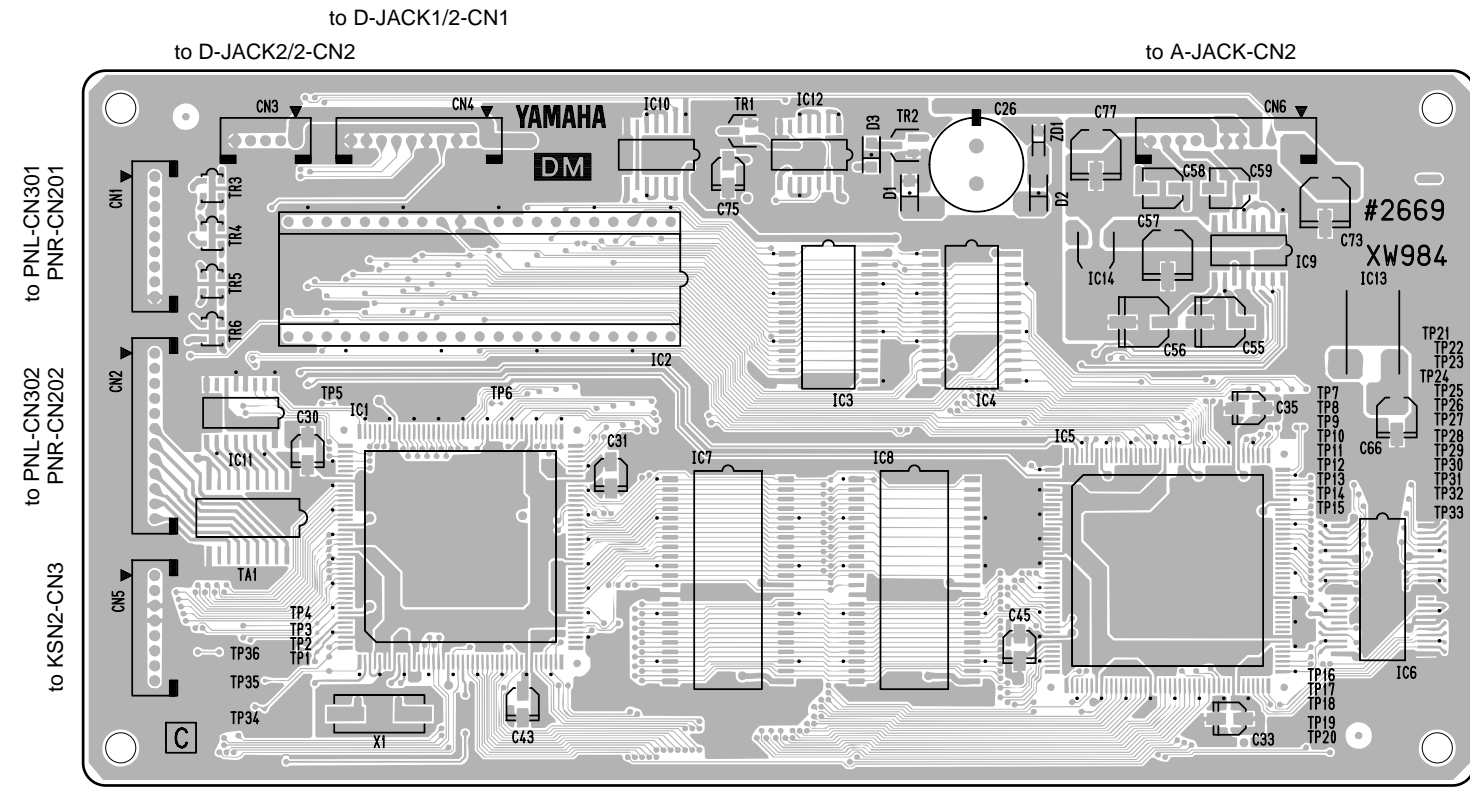


Component side

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

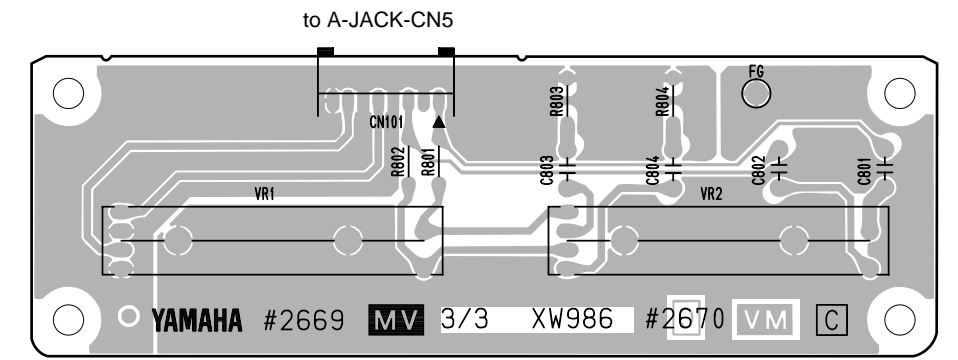
PN: 2NA-V512550

● DM CIRCUIT BOARD (CLP-930)



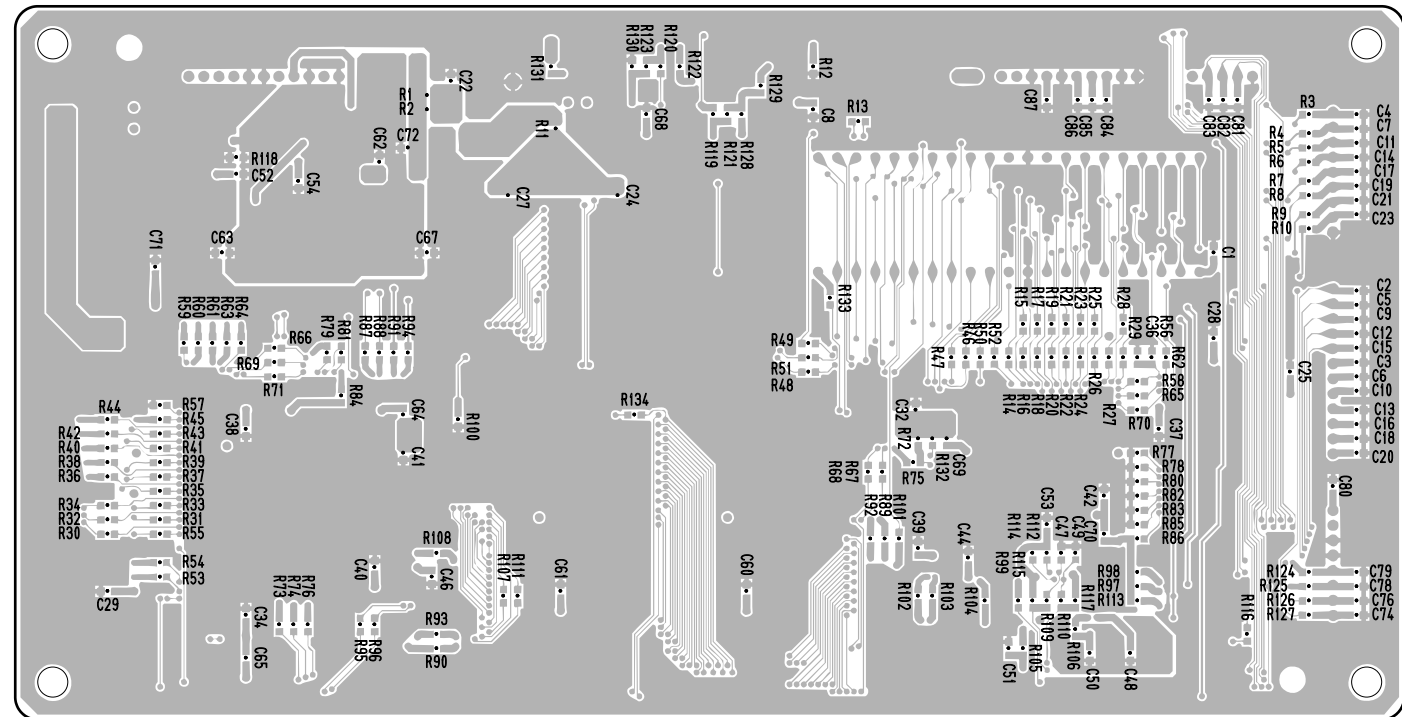
Component side

● MV CIRCUIT BOARD (CLP-930)





MASTER VOLUME

Component side

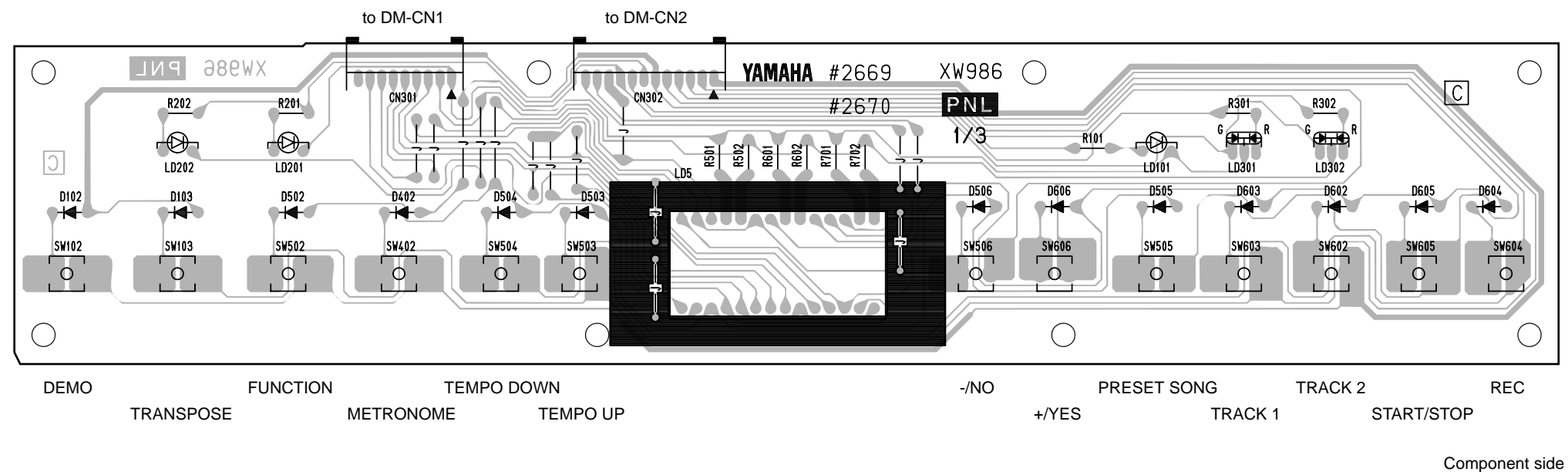


Pattern side

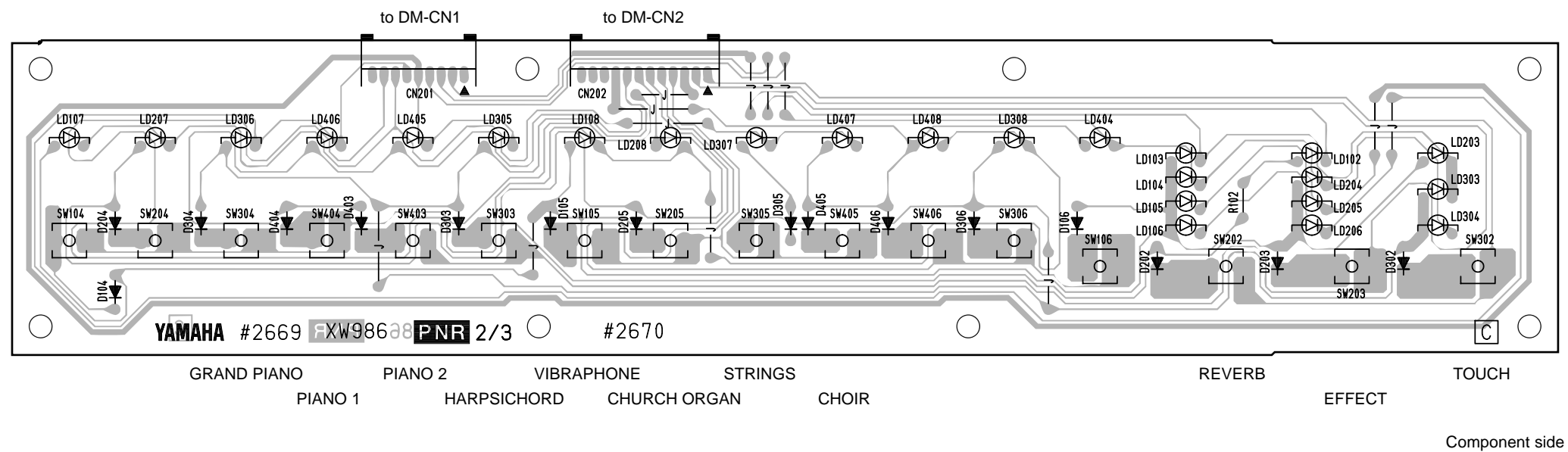
DM: 2NA-V493860 
 MV: 2NA-V512360 

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



● PNL CIRCUIT BOARD (CLP-930)



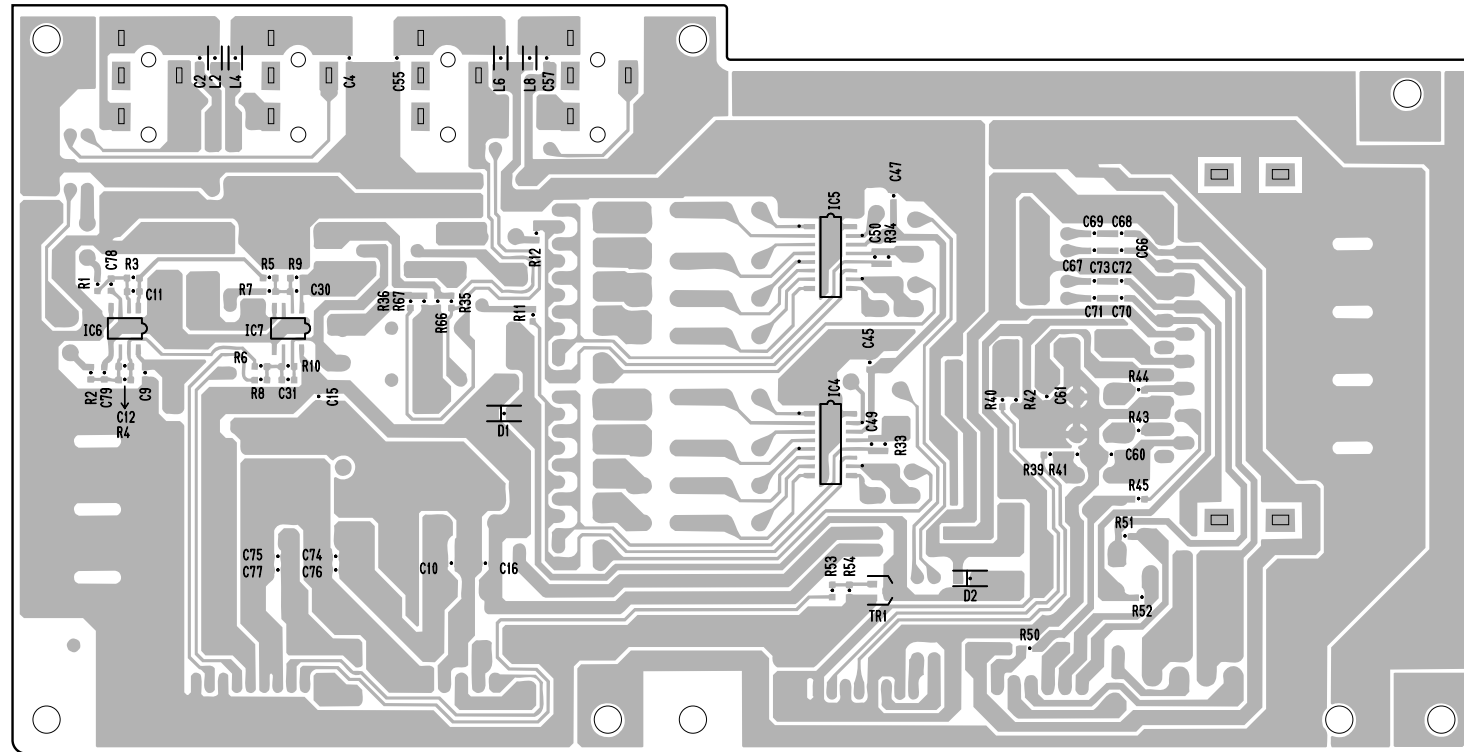
● PNR CIRCUIT BOARD (CLP-930)



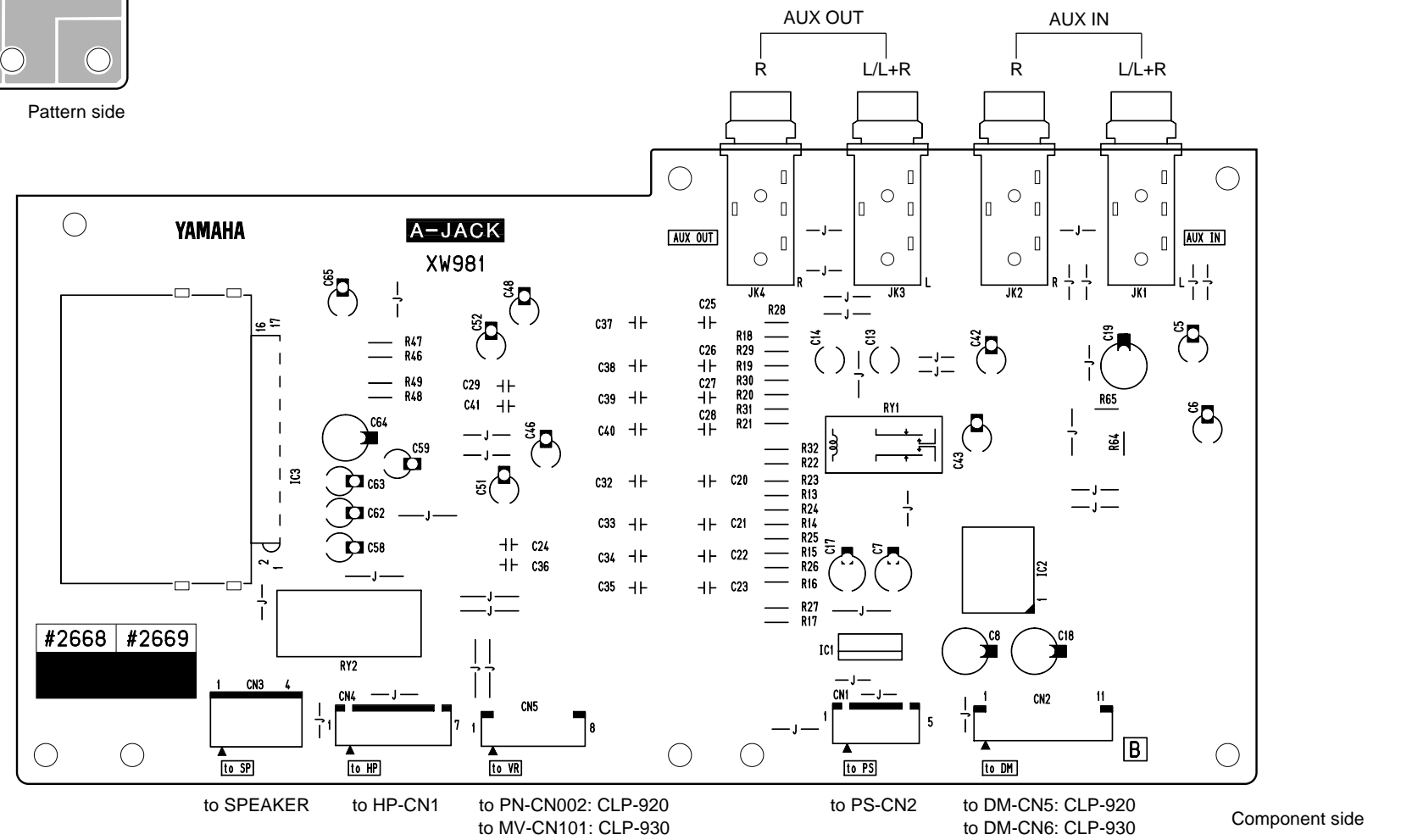
Note: See parts list for details of circuit board component parts.

PNL: 2NA-V512340 
 PNR: 2NA-V512350 

● A-JACK CIRCUIT BOARD (CLP-920 / 930)

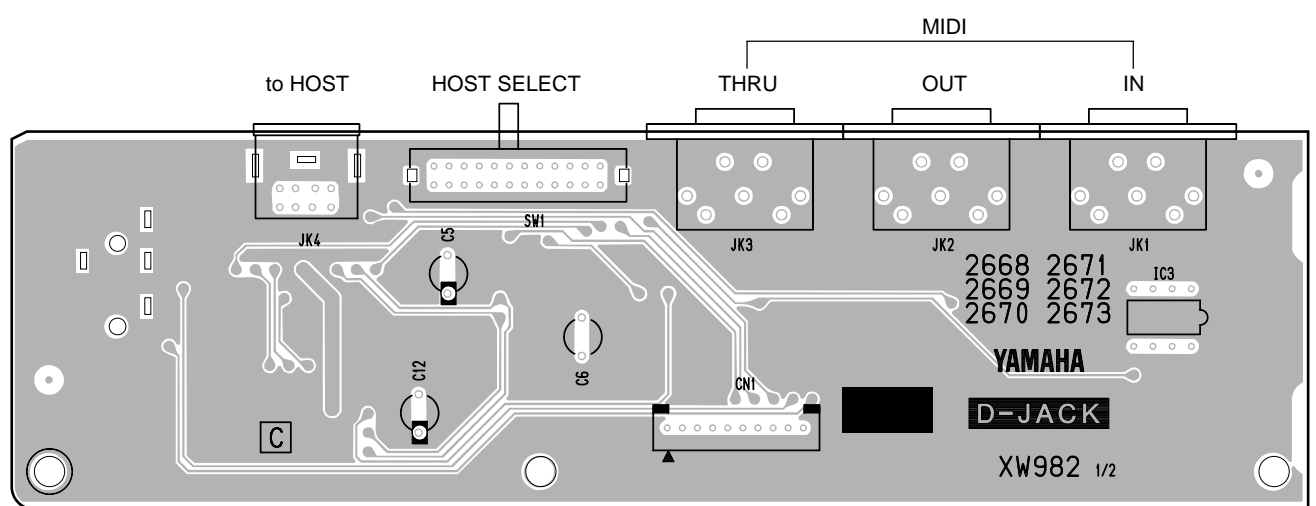
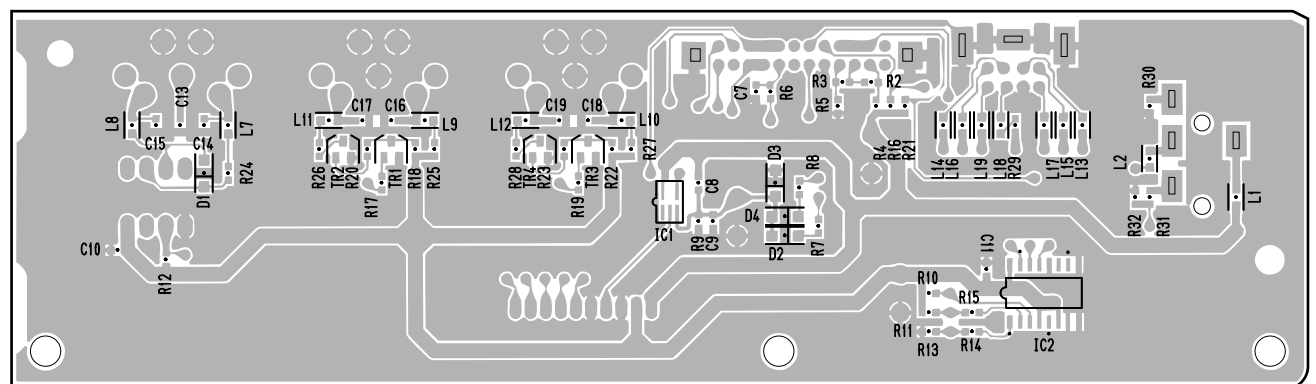


Pattern side



Component side

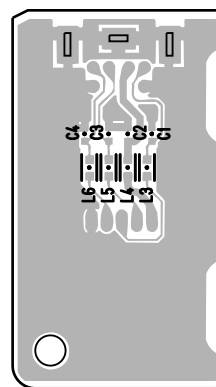
● D-JACK CIRCUIT BOARD 1/2 (CLP-920 / 930)



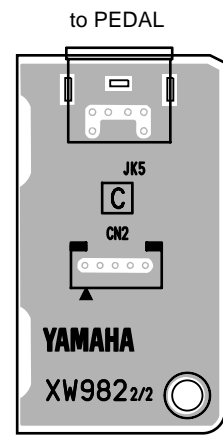
to DM-CN3: CLP-920
to DM-CN4: CLP-930

Component side

● D-JACK CIRCUIT BOARD 2/2 (CLP-920 / 930)



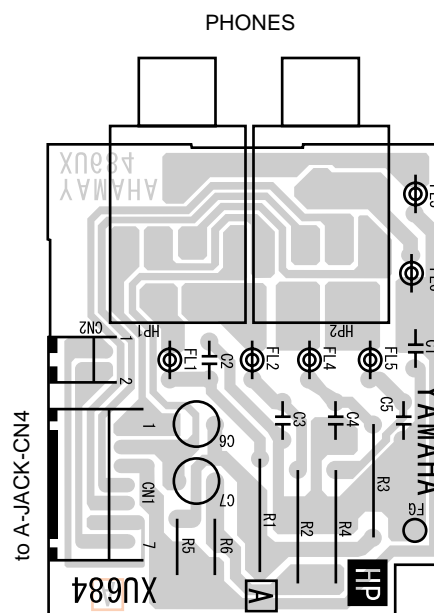
Pattern side



to DM-CN2: CLP-920
to DM-CN3: CLP-930

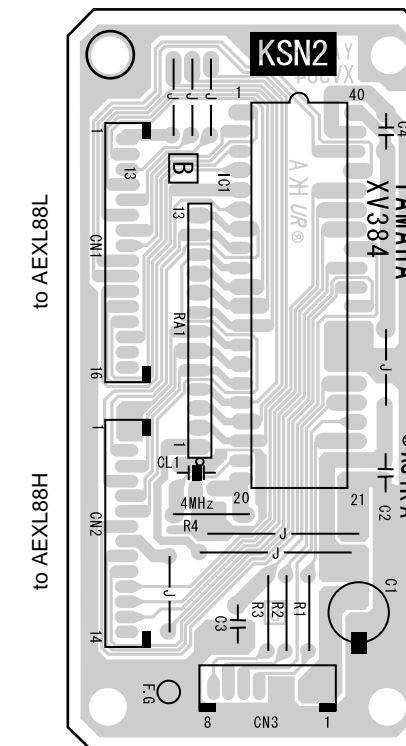
Component side

● HP CIRCUIT BOARD (CLP-920 / 930)



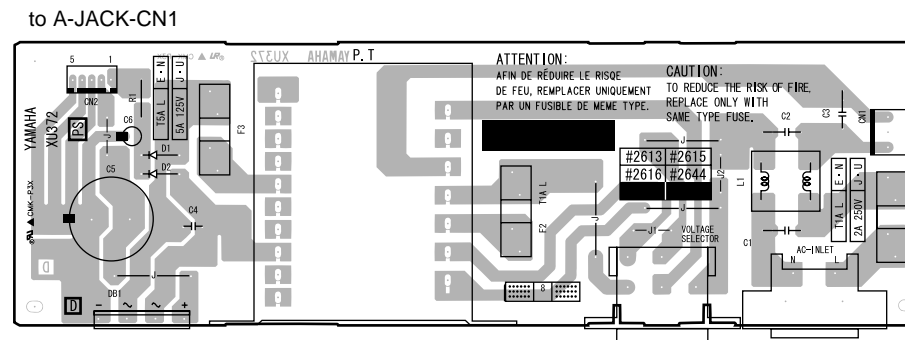
Component side

● KSN2 CIRCUIT BOARD (CLP-920 / 930)



Component side

● PS CIRCUIT BOARD (CLP-920 / 930)



Component side

D-JACK 1/2: 2NA-V493840

D-JACK 2/2: 2NA-V493840

KSN2: 2NA-V306660

HP: 2NA-VT45180

PS: 2NA-V001130

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

■ TEST PROGRAM (CLP-920)

1. Preparation

To check the 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

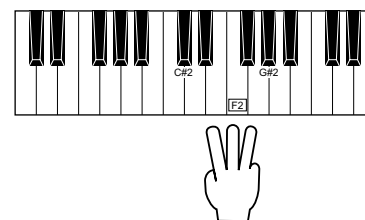
Pedal : OFF

Reverb : OFF

Other terminals : Not connected

2. How to enter the Test Program

While pressing the C#2, F2 and G#2 keys, turn the power switch on. The TEST MODE is activated and the CLP-920 output an A3 sine wave. By pressing any key except the test select keys below, the tone is turned off and the CLP-920 will enter the test select mode.



3. Proceeding through the Test Program

When CLP-920 is in the test select mode, each test is executed by pressing each test select key as in the table below.

Test items

No.	TEST	Test Select Key	Test Function and Judgment criteria
1	Version	C1 - A1, C2 - A2	Checks version for ROM. The integer (decimal) part of the ROM version number can be checked by pressing the keys, one by one from C1 (C2) to A1 (A2). (* The key-number conversion table is shown in the next page.) When the pressed key agrees with the part number of the version, the CLP-920 outputs a C4 sine wave. When the pressed key does not agree with the part number of the version, the CLP-920 outputs a C2 sine wave.
2	ROM Check 1	C3	Checks all ROMs which are connected to CPU. If the result of the test is "OK", a C4 tone is heard. If the result of the test is "NG", a C2 tone is heard.
3	RAM Check 1	C3#	Checks all RAMs which are connected to CPU. If the result of the test is "OK", a C4 tone is heard. If the result of the test is "NG", a C2 tone is heard.
11	TG1 Check	D3	Outputs the sine wave by changing the channels (1 ch - 32 ch) in sequence from F3 to C6. When a voice switch is depressed, the tone of the voice will sound. After autoscaling is finished, individual keys can be played. (If playing two or more keys simultaneously, the key pressed first takes priority.)
13	PITCH Check	D3#	Connect the frequency counter to the [PHONES] terminal. Check that the 441.0 +/- 0.2 Hz sine wave is output.

14	Output R	E3	Check output level (1 kHz) . AUX OUT L / L + R: Less than - 60 dBm AUX OUT R: - 12 dBm +/- 2 dB PHONES L: Less than - 50 dBm, PHONES R: - 16 dBm +/- 2 dB
15	Output L	F3	Check output level (1 kHz) . AUX OUT L / L + R: - 12 dBm +/- 2 dB AUX OUT R: Less than - 60 dBm PHONES L: - 16 dBm +/- 2 dB, PHONES R: Less than - 50 dBm
16	EQLow	F3#	For factory test use only.
17	EQMid	G3	For factory test use only.
18	EQHigh	G3#	For factory test use only.
20	SW, LED Check	A3#	Checks swithcs and LEDs on the panel. A pre-assigned note is output when each switch pressed. (With some switches, the corresponding LED will light up.)
21	All Panel LEDOn	B3	Check that all panel LEDs are lit.
31	Soft Pedal Check	C4	Check that C4 is output when pushing the pedal and C3 is output when releasing the pedal.
33	Damper Pedal Check	C4#	Check that C4 is output when pushing the pedal and C3 is output when releasing the pedal.
37	MIDI Check	D4	After connecting the MIDI IN and MIDI OUT, execute the test . If the result of the test is “OK” , a C4 tone is heard. If the result of the test is “NG” , a C2 tone is heard.
38	To Host Check	D4#	Connect pin to pin 2, pin 3 to pin 5, and pin 6 to pin 8 on the TO HOST terminal, and execute the test. Check that the following notes are output when changing the HOST SELECT switch position. Mac position: C5, PC - 2 position: C4, PC - 1 position: C3
41	ROM Check 2	E4	For factory test use only.
42	RAM Check 2	F4	For factory test use only.
48	Test Mode Exit	C7	Exit from the test program when executing this test.

Notes: 0 dBm = 0.775 V

* Key-number conversion table

C	C#	D	D#	E	F	F#	G	G#	A
0	1	2	3	4	5	6	7	8	9

■ TEST PROGRAM (CLP-930)

1. Preparation

To check the 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

Other terminals: 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

The LED will display "TST" when the test program is entered.

To select the program number, press the [TEMPO +/-] button.

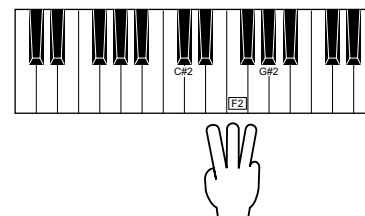
To start the test, press the [START / STOP] button.

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

To proceed to the next test, press the [START / STOP] button again.

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

Press the [DEMO] button to proceed to the next test.



Test items

No.	LED display for each test	Test Function and Judgment criteria
1	T01: Version	Displays version for ROM. (PROGRAM, WAVE) .
2	T02: ROM Check 1	Checks all ROMs which are connected to CPU.
3	T03: RAM Check 1	Checks all RAMs which are connected to CPU.
4	T04: Wave ROM Check 1	Checks the wave ROM.
11	T11: TG1 Check	Outputs the sine wave by changing the channels (1 ch - 32 ch) in sequence from F3 to C6. When a voice switch is depressed, the tone of the voice will sound. After autoscaling is finished, individual keys can be played. (If playing two or more keys simultaneously, the key pressed first takes priority.)
12	T12: TG2 Check	Outputs the sine wave by changing the channels (33 ch - 64 ch) in sequence from F3 to C6. When a voice switch is depressed, the tone of the voice will sound. After autoscaling is finished, individual keys can be played. (If playing two or more keys simultaneously, the key pressed first takes priority.)
13	T13: PICH Check	Connect the frequency counter to the [PHONES] terminal. Check that the 441.0 +/- 0.2 Hz sine wave is output.
14	T14: Output R	Check output level (1 kHz) . AUX OUT L / L + R: Less than - 60 dBm AUX OUT R: - 12 dBm +/- 2 db PHONES L: Less than - 50 dBm, PHONES R: - 15 dBm +/- 2 db

15	T15: Output L	Check output level (1 kHz) . AUX OUT L / L + R: - 12 dBm +/- 2 db AUX OUT R: Less than - 60 dBm PHONES L: - 15 dBm +/- 2 db, PHONES R: Less than - 50 dBm
16	T16: EQ Low	For factory test use only.
17	T17: EQ Mid	For factory test use only.
18	T18: EQ High	For factory test use only.
19	T19: D / A Noise	Checks D / A converter noise. Play a note and check that there is no noise during the PIANO 1 release time. (Damper pedal is ON)
20	T20: SW, LED Check	Checks switches and LEDs on the pedal. Play the switch which is displayed on the LED. (The order is shown in the Table 1.) A pre-assigned note is output when the switches pressed. (With some switches, the corresponding LED will light up.)
21	T21: All Panel LED On	Check that all panel LEDs are lit.
31	T31: Soft Pedal Check	Check that C4 is output when pushing the pedal and C3 is output when releasing the pedal, and that the LED displays "OK".
32	T32: Soste. Pedal Check	Check that C4 is output when pushing the pedal and C3 is output when releasing the pedal, and that the LED displays "OK".
33	T33: Damper Pedal Check	Check that C4 is output when pushing the pedal and C3 is output when releasing the pedal, and that the LED displays "OK".
37	T37: MIDI Check	After connecting the MIDI IN and MIDI OUT, execute the test . The test result appears on the LED display.
38	T38: To Host Check	Connect pin to pin 2, pin 3 to pin 5, and pin 6 to pin 8 on the TO HOST terminal, and execute the test. Check that the following notes are output when changing the HOST SELECT switch position according to the LED indication, and that the LED displays "OK". Mac position: C5, PC - 2 position: C4, PC - 1 position: C3
41	T41: ROM Check 2	For factory test use only.
42	T42: RAM Check 2	For factory test use only.
43	T43: Wave ROM Check 2	For factory test use only.
46	T46: Back Up Check 2	For factory test use only.
47	T47: Factory Set	All RAMs are initialized and set to the factory preset data when executing this test.
48	T48: Test Mode Exit	Exit from the test program when executing this test.

Notes: 0 dBm = 0.775 V

SW NO.	SWITCH	NOTE	LED	SW NO.	SWITCH	NOTE	LED
S01	DEMO	C3	OFF	S13	REC	C4	OFF
S02	TRANSPOSE	C#3	ON	S14	GRANDPIANO	C#4	ON
S03	FUNCTION	D3	ON	S15	E.PIANO 1	D4	ON
S04	METRONOME	D#3	OFF	S16	E.PIANO 2	D#4	ON
S05	TEMPO+	E3	OFF	S17	HARPSICHORD	E4	ON
S06	TEMPO-	F3	OFF	S18	VIBRAPHONE	F4	ON
S07	- / NO	F#3	OFF	S19	CHURCH	F#4	ON
S08	+ / YES	G3	OFF	S20	STRINGS	G4	ON
S09	PRESETSONG	G#3	ON	S21	CHOIR	G#4	ON
S10	TRACK 1	A3	ON	S22	REVERB	A4	ON
S11	TRACK 2	A#3	ON	S23	EFFECT	A#4	ON
S12	START / STOP	B3	OFF	S24	TOUCH	B4	ON

TABLE 1

■ INSPECTION

1. AUX OUT and PHONES

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

AUX OUT L / L + R:	- 10 dBm +/- 2 dB
AUX OUT R:	Less than - 60 dBm
PHONES L:	- 13 dBm +/- 2 dB
PHONES R:	Less than - 50 dBm

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

AUX OUT L / L + R:	Less than - 60 dBm
AUX OUT R:	- 10 dBm +/- 2 dB
PHONES L:	Less than - 50 dBm
PHONES R:	- 13 dBm +/- 2 dB

2. Noise Level

Confirm that the PHONES L and R output noise level is less than - 80 dBm when no sound is produced.

Note: 0 dBm = 0.775 V

■ MIDI IMPLEMENTATION CHART : CLP-920

YAMAHA [Clavinova]

Date: 1 March, 2000

Model: CLP-920

MIDI Implementation Chart

Version: 1.0

Function		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 1~16	1 1~16	
Mode	Default Messages Altered	3 X *****	1 X X	*1 Poly Mode only
Note Number:	True voice	15~114 *****	0~127 21~108	
Velocity	Note on Note off	O 9nH, v=1~127 X 9nH, v=0	O v=1~127 X	
After Touch	key's Ch's	X X	X X	
Pitch Bender		X	X	
Control Change				
	0, 32	O	O	Bank Select
	07	X	O	Volume
	11	O	O	Expression
	64	O	O	Damper
	66	X	O	Sostenuto
	67	O	O	Soft pedal
	91	O	O	Reverb Depth
	94	X	X	Effect Depth
	120	X	O	All sounds off
	121	X	O	Reset All Controllers
Program Change:	True #	O *****	O	
System Exclusive		O	O	
System:	Song Position : Song Select	X X	X X	
Common:	Tune	X	X	
System:	Clock	O	X	
Real Time:	Commands	X	X	
Aux:	Local ON/OFF	X	O	
	: All Notes Off	X	O (123~127)	
Messages:	Active Sense	O	O	
	: Reset	X	X	
Notes: *1 = Recieve Mode is always multi timbre and Poly mode.				

Mode 1: OMNI ON, POLY
Mode 3: OMNI OFF, POLY

Mode 2: OMNI ON, MONO
Mode 4: OMNI OFF, MONO

O: Yes
X: No

MIDI IMPLEMENTATION CHART : CLP-930

YAMAHA[Clavinova]

Date: 1 March, 2000

Model: CLP-930

MIDI Implementation Chart

Version: 1.0

Function	Transmitted	Recognized	Remarks	
Basic Channel	Default Changed	1 1 ~ 16	1 1 ~ 16	
Mode	Default Messages Altered	3 X *****	1 X X	*1 Poly Mode only
Note Number:	True voice	9 ~ 120 *****	0 ~ 127 21 ~ 108	
Velocity	Note on Note off	O 9nH, v=1 ~ 127 X 9nH, v=0	O v=1 ~ 127 X	
After Touch	key's Ch's	X X	X X	
Pitch Bender		X	X	
Control Change				
	0, 32	O	O	Bank Select
	07	X	O	Volume
	11	O	O	Expression
	64	O	O	Damper
	66	O	O	Sostenuto
	67	O	O	Soft pedal
	91	O	O	Reverb Depth
	94	O	O	Effect Depth
	120	X	O	All sounds off
	121	X	O	Reset All Controllers
Program Change:	True #	O *****	O	
System Exclusive		O	O	
System: Common:	Song Position : Song Select Tune	X X X	X X X	
System: Real Time:	Clock Commands	O O	O O	
Aux: Messages:	Local ON/OFF : All Notes Off Active Sense : Reset	X O O X	O O (123 ~ 127) O X	
Notes: *1 = Recieve Mode is always multi timbre and Poly mode.				

Mode 1: OMNI ON, POLY
Mode 3: OMNI OFF, POLY

Mode 2: OMNI ON, MONO
Mode 4: OMNI OFF, MONO

O: Yes
X: No

Clavinova[®]

CLP-920

PARTS LIST

■ CONTENTS

OVERALL ASSEMBLY	2	END BLOCK ASSEMBLY	13
MAIN UNIT	4	PANEL ASSEMBLY	14
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PEDAL BOX ASSEMBLY	8	JACK UNIT	16
PEDAL ASSEMBLY	9	POWER SUPPLY UNIT	17
TOP BOARD ASSEMBLY	10	KEYBOARD ASSEMBLY	18
MUSIC REST ASSEMBLY	11	BENCH	20
SIDE COVER ASSEMBLY	12	ELECTRICAL PARTS	21

Note) DESTINATION ABBREVIATIONS

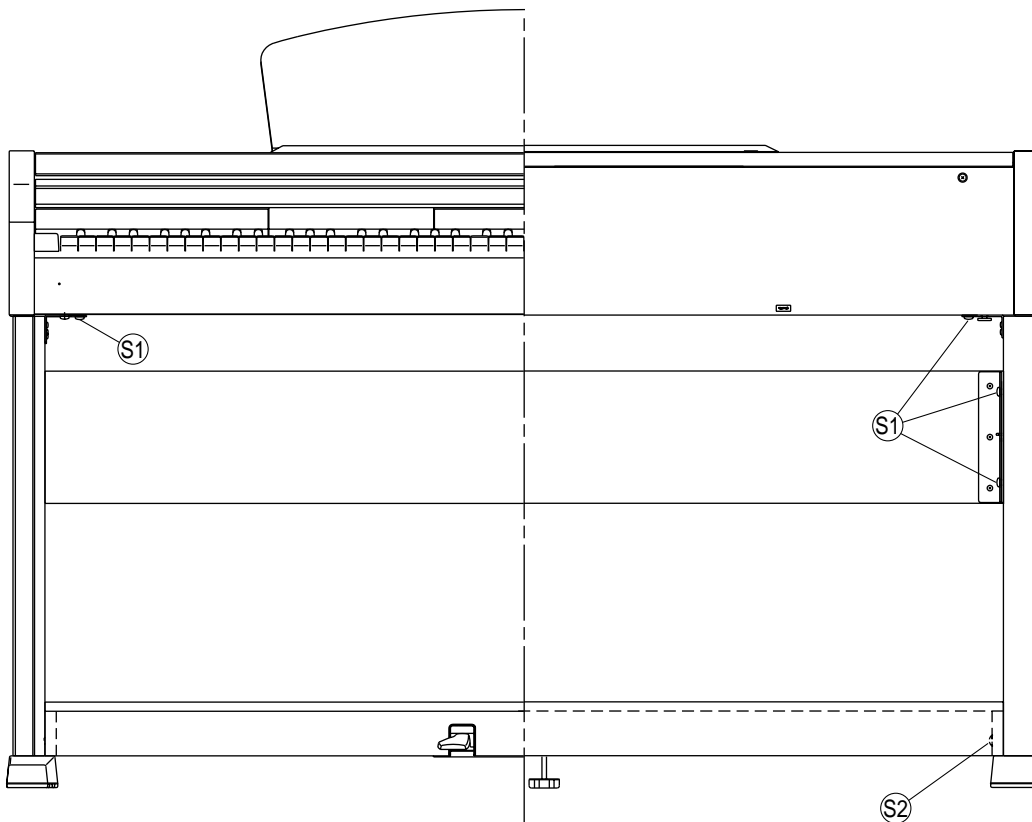
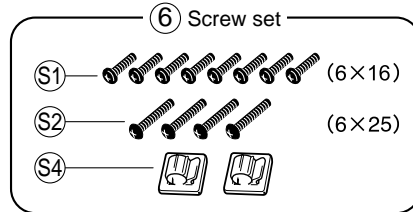
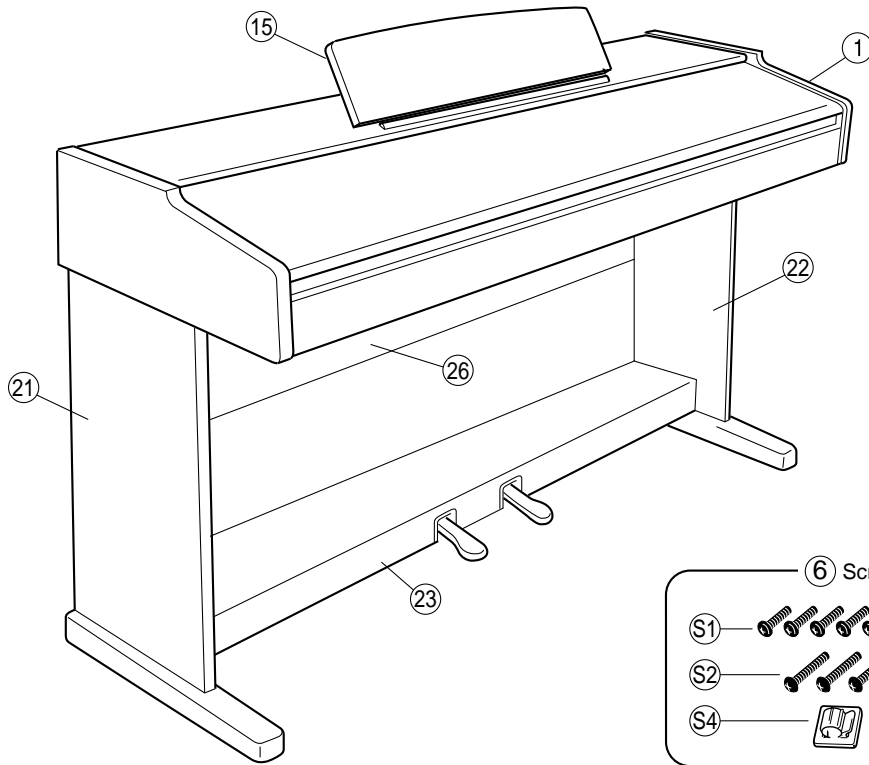
A: Australian model	M: South African model
B: British model	O: Chinese model
C: Canadian model	Q: South-east Asia model
D: German model	T: Taiwan model
E: European model	U: U.S.A. model
F: French model	V: General export model (110V)
H: North European model	W: General export model (220V)
I: Indonesian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

■ WARNING

Components having special characteristics are marked \triangle 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



● Front view

● Rear view

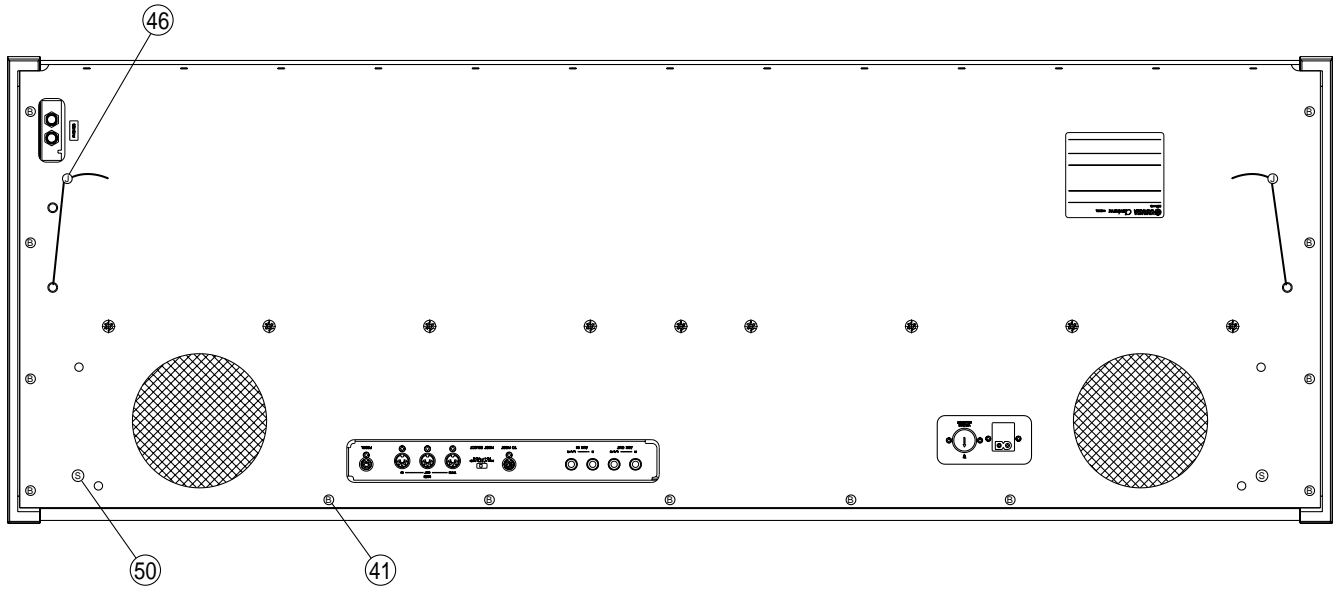
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		OVERALL ASSEMBLY		CLP-920		
1	--	Main Unit		J (V498330)		
1	--	Main Unit		U (V498340)		
1	--	Main Unit		B, E, G, R (V498370)		
1	--	Main Unit		N (V498380)		
△	5	VT015700 AC Cord Set	J 2P 2.5m 7A	J		05
△	5	V2916900 AC Cord Set	J 2P 7A 2.5m	J		05
△	5	V3126200 AC Cord Set	J 2P 2.5m 7A	J		
△	5	VT015800 AC Cord Set	U2P 2.44m 7A	U		06
△	5	V2917000 AC Cord Set	UC 2P 7A 2.44m	U		
△	5	V3126400 AC Cord Set	U 2P 2.5m	U		
△	5	VT016000 AC Cord Set	B 2P 2.5m	B, G, R		08
△	5	V3126500 AC Cord Set	B 2P 2.5m	B, G, R		
△	5	VT015900 AC Cord Set	E 2P 2.5m	E, N		05
△	5	V2917100 AC Cord Set	E 2P 2.5m 2.5A	E, N		05
△	5	V3126300 AC Cord Set	E 2P 2.5m	E, N		
	6	V5283700 Screw Set				
△	13	VK726100 Connector	CCT5902	N		03
	15	-- Music Rest Assembly			(V542890)	
	21	-- Side Board Assembly	LEFT		(V494260)	
	22	-- Side Board Assembly	RIGHT		(V494270)	
	23	-- Pedal Box Assembly			(V494310)	
	26	-- ST Board Assembly			(V495630)	
	26a	V4968800 ST Board				
	26b	VN634400 Holder, Back Top Board				2 06
	26c	EP030250 Bind Head Tapping Screw-1	3.5X14 MFZN2BL			6 01
		ACCESSORIES				
	7	-- Bench	BC100-DR	J, U, N	(V553140)	
	11	V5771000 Headphone	P402522A0000	J		
		V5283700 Screw Set				
	S1	EG360020 Bind Head Screw	6.0X16 MFZN2BL			8 01
	S2	VQ448400 Truss Head Screw	6.0X25 MFZN2BL			4 01
	S4	VR410300 Cord Clamp Set				03
	S4a	VP592100 Cord Clamper	DKN-5B (VHB)			2 03
		JIGS				
		TX900761 Hex,Wrench	6mm			09
		TX000670 Rod				99

△: New Parts

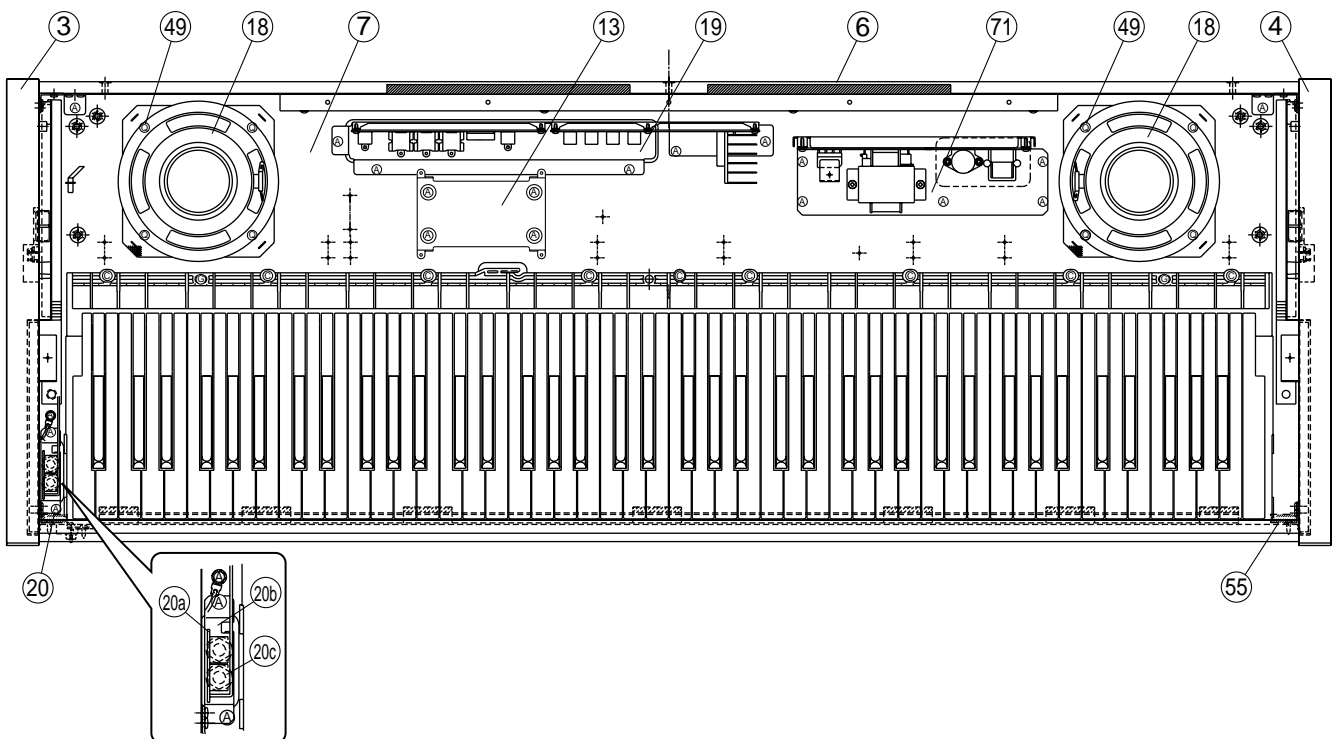
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MAIN UNIT

● Bottom view

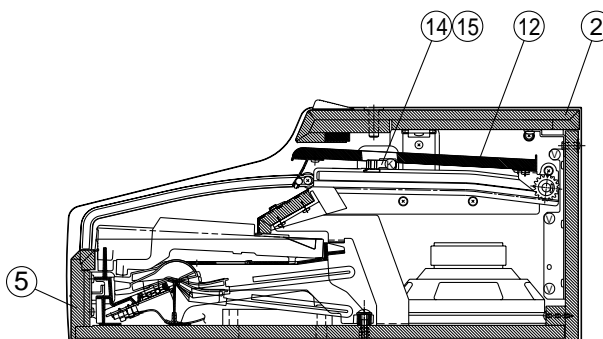


● Top view 1

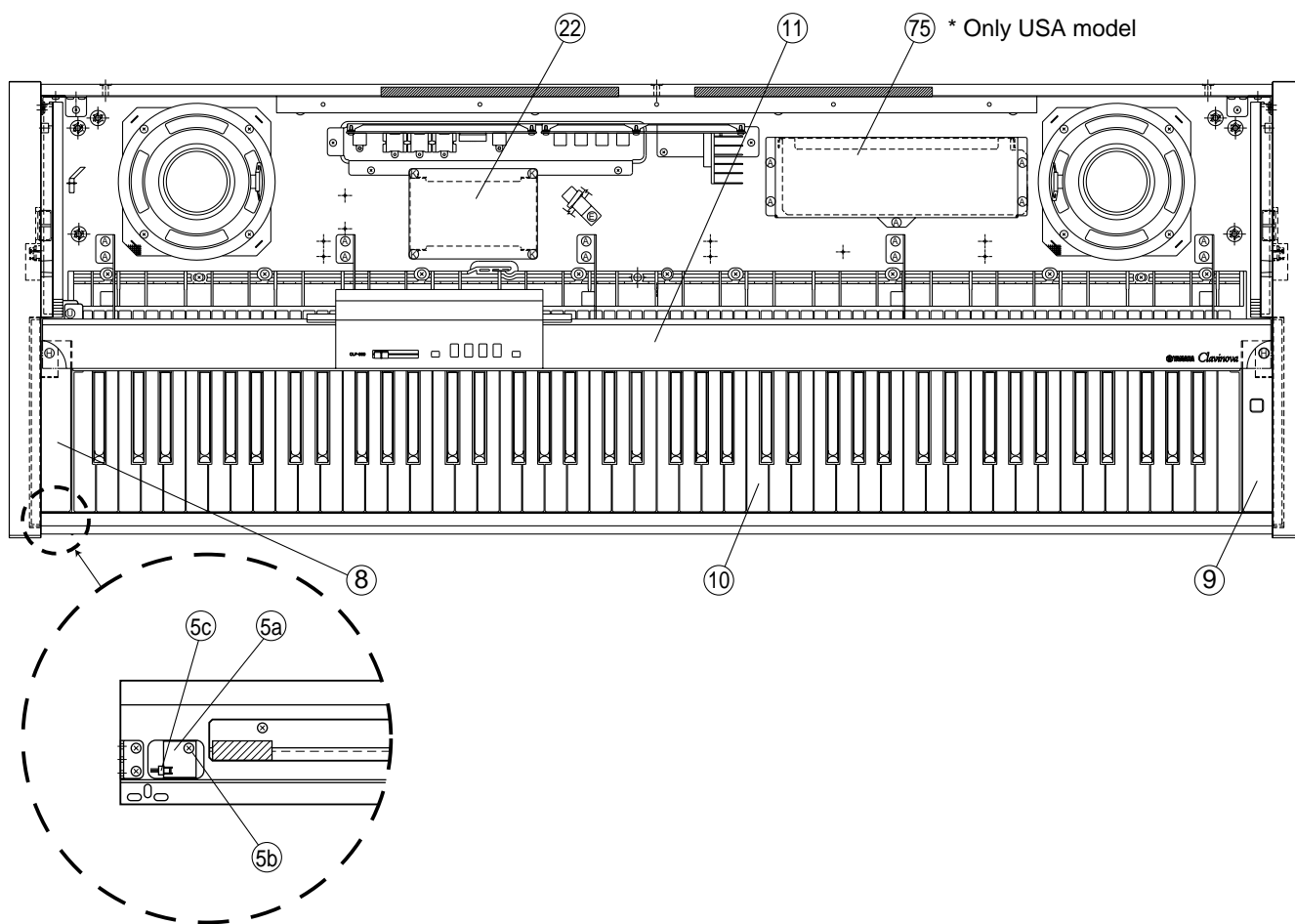


● Side view

SCREW	REF NO.	PART NO.
(A)	40	EP030340
(B)	41	EN630190
(C)	42	VV040700
(E)	43	EN630230
(G)	44	EP040230
(H)	45	VU952600
(J)	46	EP030240
(K)	47	EP600190
(N)	48	VB934000
(Q)	49	20338800
(S)	50	VN887900
(U)	51	EP600240
(V)	52	EP030190



● Top view 2



Note : Connector assemblies (26), (27), (28), (29), (32), (33), (35) are shown in the CIRCUIT BOARD LAYOUT section on page *.

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	MAIN UNIT		CLP920		
	--	Main Unit		J (V498330)		
	--	Main Unit		U (V498340)		
	--	Main Unit		B, E, G, R (V498370)		
	--	Main Unit		N (V498380)		
	--	Main Unit Sub Assembly		(V498500)		
1	--	Main Unit Sub Assembly				
40	EP030340	Bind Head Tapping Screw-1	3.5X12 MFZN2BL	U	3	01
71	V0010200	Power Supply Unit		J		14
71	V0010300	Power Supply Unit		U		14
71	V0010400	Power Supply Unit		B, E, G, R		22
71	V0010500	Power Supply Unit		N		07
75	V2035900	Cover, Power Supply Unit		U		
	--	Main Unit Sub Assembly		(V498500)		
2	V4985100	Top Board Assembly				
3	V4956500	Side Cover Assembly	LEFT			
4	V4956600	Side Cover Assembly	RIGHT			
5	AAX14850	Keybed & F. Rail Assembly	(V475670 + V497690)			
5a	VN637600	Circuit Board	PL(YCJ)			03
5a	VU659100	Circuit Board	PL(YMMA)			03
5b	--	Connector Assembly	2P-150	(VK09960)		
5c	EP030340	Bind Head Tapping Screw-1	3.5X12 MFZN2BL		11	01
6	V5397200	Back Top Board Assembly				
8	--	Side Cover Assembly	LEFT	(V533560)		
9	--	Side Cover Assembly	RIGHT	(V528550)		
10	VU431800	Keyboard Assembly	A88 K6			55
11	--	Panel Assembly		(V498530)		
12	V4957100	Key Cover Assembly	YMMA			
12	V5385100	Key Cover Assembly	YCJ			
13	--	Angle	M C. BOARD	(V498550)		
14	VS312100	Rack Cover	LEFT			03
15	VS312200	Rack Cover	RIGHT			03
18	XU452A00	Speaker	16.0cm 4ohm 20W		2	10
19	--	Jack Unit		(V497980)		
20	--	Headphones Jack Assembly		(V541550)		
20a	V5415700	Circuit Board	HP (YI)			
20b	VN631800	Angle, H.P				04
20c	VB508600	Hexagonal Nut	12.0 14X2 MFZN2BL		2	01
22	V4938100	Circuit Board	DM			
26	--	Connector Assembly	SP	(V004520)		
27	--	Connector Assembly	HP	(V547800)		
28	--	Connector Assembly	POWER SUPPLY	(V004510)		
29	--	Connector Assembly	MK-LF	(V550670)		
32	--	Connector Assembly	5P-150 KRD-KRD	(VK10040)		
33	VJ989200	Connector Assembly	10P-100 KRD-KRD			05
35	VK101600	Connector Assembly	11P-150 KRD-KRD			03
37	CB069250	Cord Holder	BK-1		2	01
38	VP834600	Adhesive Tape	12X50		3	02
40	EP030340	Bind Head Tapping Screw-1	3.5X12 MFZN2BL		29	01
41	EN630190	Truss Head Tapping Screw-1	3.5X25 MFZN2BL		13	01
42	VV040700	Pan Head Screw	5.0X25 MFZN2Y PW		9	01
43	EN630230	Truss Head Tapping Screw-1	3.5X14 MFZN2Y			01
44	EP040230	Bind Head Tapping Screw-1	4.0X14 MFZN2Y		2	01
45	VU952600	Truss Head Tapping Screw-1	3.5X30 MFZN2BL		2	01
46	EP030240	Bind Head Tapping Screw-1	3.5X12 MFZN2Y		2	01
47	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		6	01
48	VB934000	Truss Head Screw	4.0X20 MFZN2BL		3	01
49	20338800	Truss Head Tapping Screw-1	4X20 MFZN2Y		8	01
50	VN887900	Guide Screw	+ 6X14		2	03
51	EP600240	Bind Head Tapping Screw-B	4X10 MFZN2BL			01
52	EP030190	Bind Head Tapping Screw-1	3.5X16 MFZN2Y		10	01
55	--	Electric Adhesive Tape	25X30 7701	(V591400)	2	

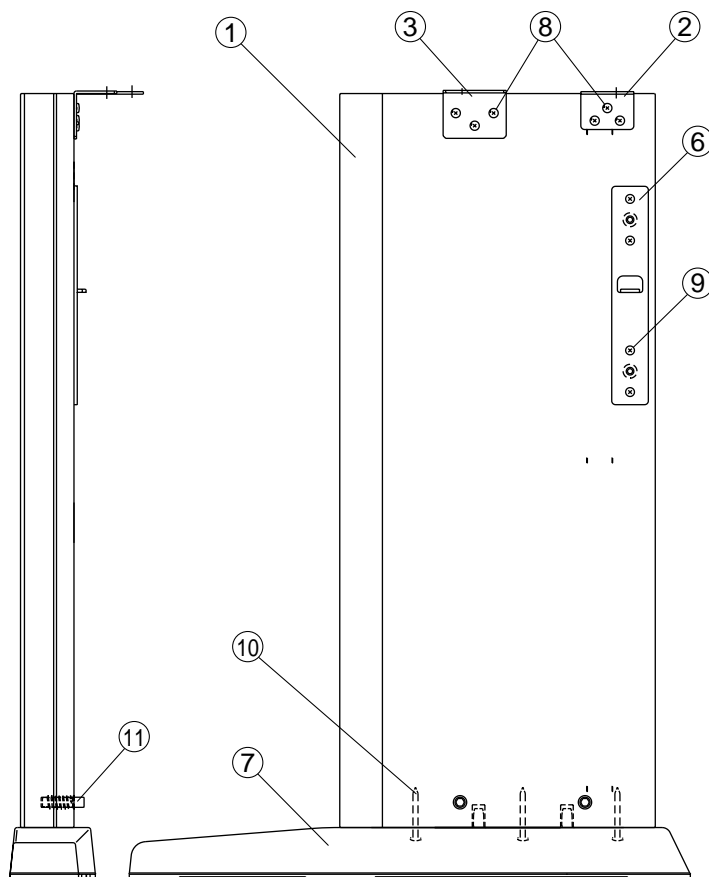
*: New Parts

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■ SIDE BOARD ASSEMBLY (L, R)

* This figure shows a side board assembly (L).

● Side view



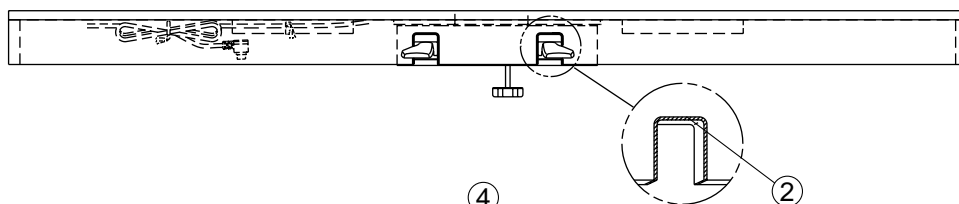
REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
	--	SIDE BOARD ASSEMBLY	CLP920		
	--	Side Board Assembly	(V494260)		
1	V4965200	Side Board	LEFT		
2	VS295500	Angle Bracket	LEFT		05
3	VZ885300	Angle Bracket	LEFT		04
6	VN634300	Holder, Side Board	2.0 L MFZN2		
7	V4960400	Stand Base			07
8	EP030580	Bind Head Tapping Screw-1	LEFT		
9	EM030180	Flat Head Tapping Screw-1	3.5X20 MFZN2BL	6	01
10	V5344700	Bind Head Tapping Screw-1	3.5X20 MFZN2BL	4	01
11	V5251600	Nut	4.0X40 MFZN2Y	3	
			TYPE M M6XL33	2	
	--	Side Board Assembly	(V494270)		
	--	Side Board	RIGHT		
1	V4965300	Side Board	RIGHT		
2	VS295600	Angle Bracket	RIGHT		05
3	VZ885300	Angle Bracket	RIGHT		04
6	VN634300	Holder, Side Board	2.0 L MFZN2		
7	V5097500	Stand Base			07
8	EP030580	Bind Head Tapping Screw-1	RIGHT		
9	EM030180	Flat Head Tapping Screw-1	3.5X20 MFZN2BL	6	01
10	V5344700	Bind Head Tapping Screw-1	3.5X20 MFZN2BL	4	01
11	V5251600	Nut	4.0X40 MFZN2Y	3	
			TYPE M M6XL33	2	

∴ New Parts

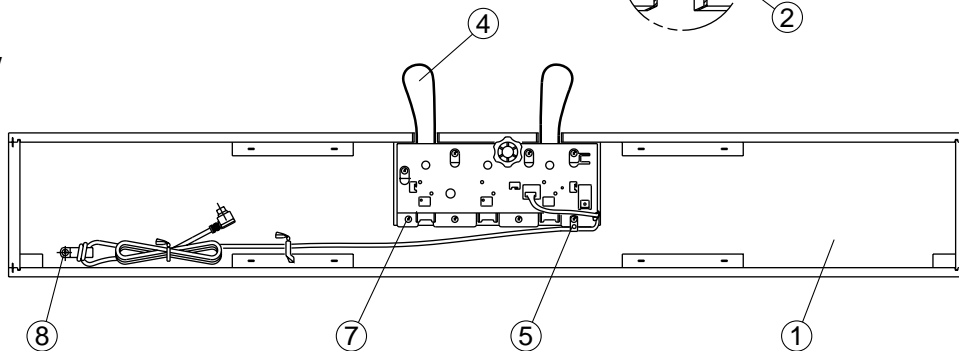
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■ PEDAL BOX ASSEMBLY

● Front view



● Bottom view



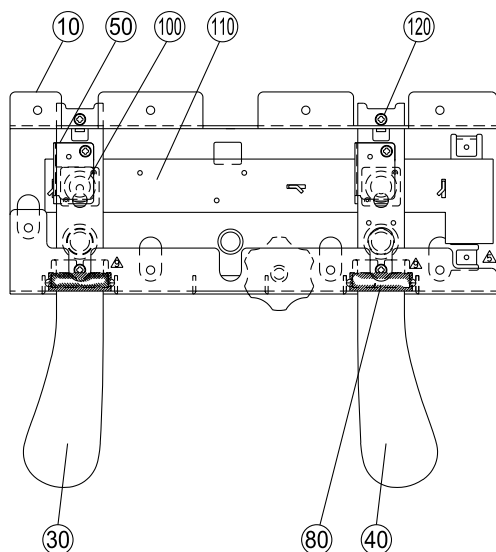
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	PEDAL BOX ASSEMBLY		CLP920		
	--	Pedal Box Assembly		(V494310)		
1	V4963400	Pedal Box Wooden Assembly				
1	V5314400	Pedal Box Wooden Assembly	J			
2	VU464300	Felt	115X12X2 RE		2	03
4	V0053000	Pedal Assembly				17
5	CB065520	Nylon Clamp	NK-3N			01
7	EP040230	Bind Head Tapping Screw-1	4.0X14 MFZN2Y		8	01
8	03747270	Truss Head Tapping Screw-1	4.0X12 MFZN2BL			

*: New Parts

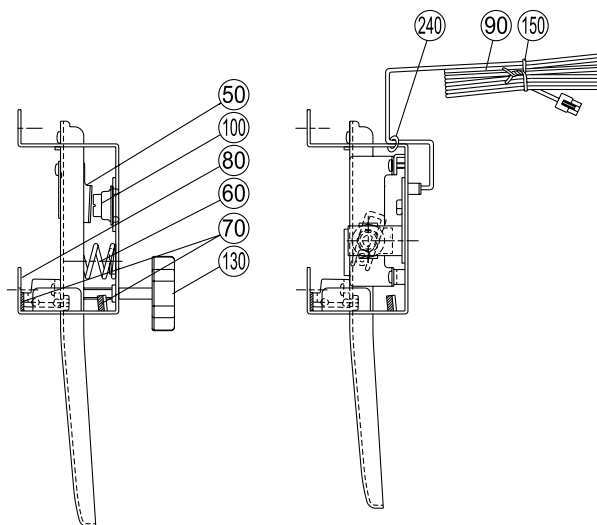
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■ PEDAL ASSEMBLY

● Top view



● Side view



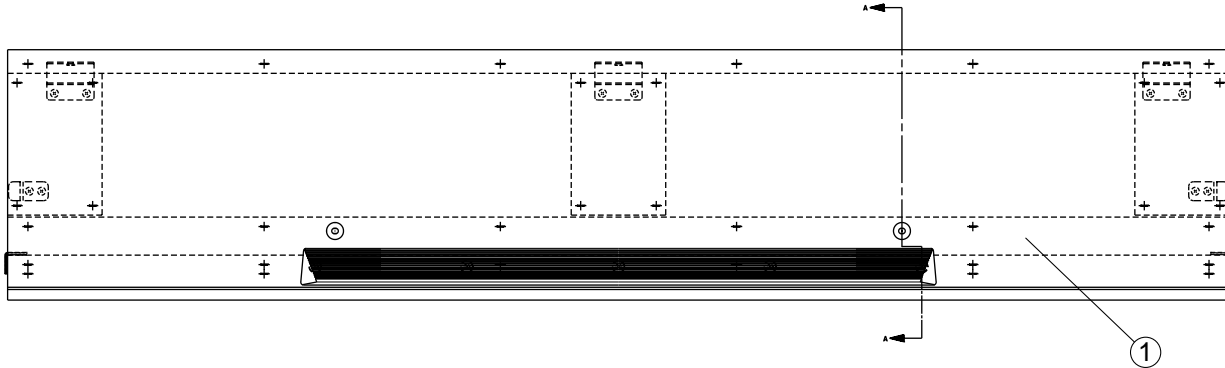
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	V0053000	PEDAL ASSEMBLY		CLP920		
	VU339700	Pedal Assembly			17	09
10	VU339700	Pedal Frame			2	03
30	VU362100	Pedal Piece	LEFT	Soft	2	03
40	VU362200	Pedal Piece	RIGHT	Damper	2	03
50	VV433500	Actuator	PEDAL		2	03
60	VP348100	Pedal Spring	CLP-124		2	03
70	VU346500	Felt	BL		4	03
80	VU339800	Shutter	PEDAL		2	03
90	V0044700	Connector Assembly	PK-LF		2	10
100	VU456000	Rubber Contact	1 PEDAL		2	03
110	V2337300	Circuit Board	PEDAL		7	07
120	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		7	01
130	VU379700	Adjuster				02
150	CB033610	Cord Binder	L=160			01
240	CB069250	Cord Holder	BK-1		2	01

*: New Parts

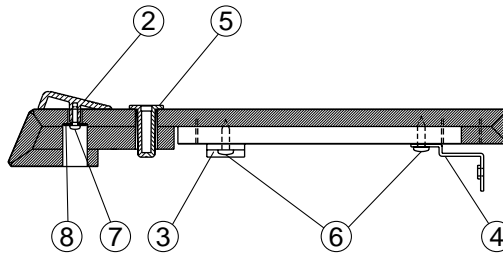
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TOP BOARD ASSEMBLY

Top view



Side view



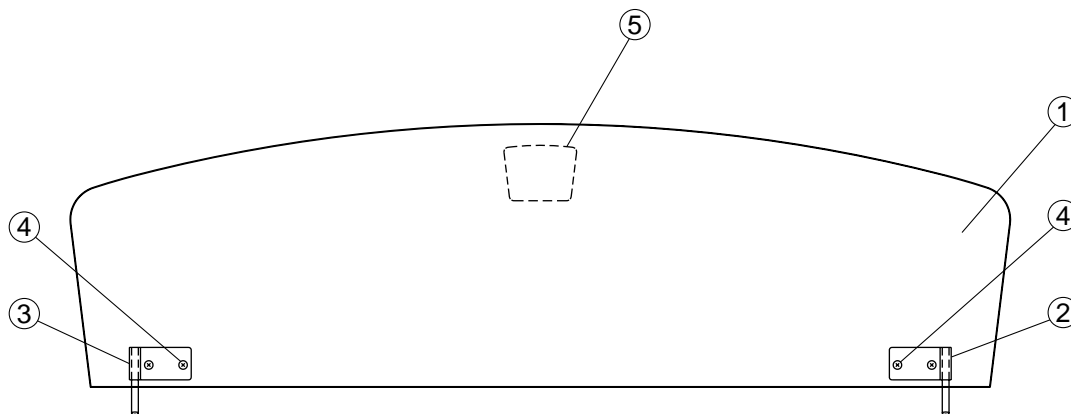
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	V4985100	TOP BOARD ASSEMBLY		CLP920		
1	--	Top Board Assembly		(V498590)		
2	VY891000	Stopper Rail, Music Score			2	03
3	VQ485700	Holder, Top Board			2	01
4	VQ485800	Holder, Top Board			3	05
5	VF179400	Bushing	BL		2	01
6	EP040170	Bind Head Tapping Screw-1	4.0X16 MFZN2Y		10	01
7	EP600270	Bind Head Tapping Screw-P	3.0X10 MFZN2Y		5	01
8	VK287600	Flat Washer	4.0X12X1.0 MFZN2Y		5	01

*: New Parts

RANK: Japan only

MUSIC REST ASSEMBLY

● Rear view



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	V5428900	MUSIC REST ASSEMBLY		CLP920		
1	--	Music Rest Assembly				
	--	Music Rest		(V542900)		
2	VF055200	Angle Bracket	EL-25			05
3	VF055300	Angle Bracket	EL-25			05
4	20404200	Bind Head Tapping Screw-1	3.0X10 MFZN2BL		4	
5	V5782300	Badge	CLAVINOVA			

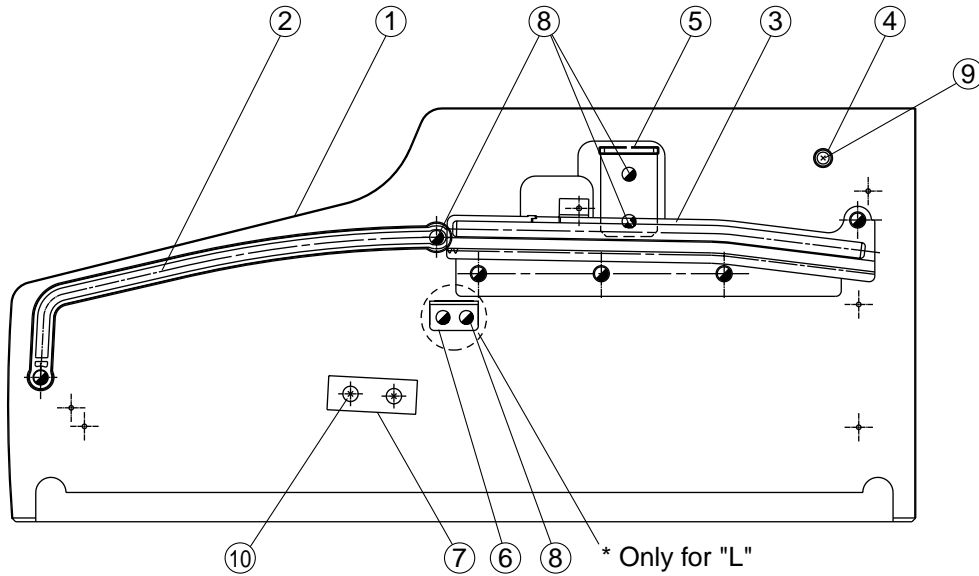
*: New Parts

RANK: Japan only

■ SIDE COVER ASSEMBLY (L, R)

* This figure shows a side cover assembly (L).

● Side view



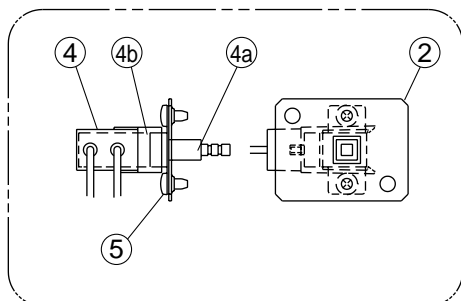
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	V4956500	SIDE COVER ASSEMBLY		CLP920		
1	--	Side Cover Assembly	LEFT			
2	--	Side Cover	LEFT	(V495900)		
3	V5286600	Rack Assembly	LEFT			
4	CB033070	Stopper				03
5	--	Holder Assembly, Top Board		(V257770)		
6	--	Angle P		(V588240)		
7	--	Creast B	18 50	(V520850)		
8	EP030260	Bind Head Tapping Screw-1	3.5X16 MFZN2BL		6	01
9	EM040080	Flat Head Tapping Screw-1	4.0X20 MFZN2Y			
10	VU952600	Truss Head Tapping Screw-1	3.5X30 MFZN2BL		4	01
12	EP030470	Bind Head Tapping Screw-1	3.5X20 MFZN2Y		4	01
	V4956600	Side Cover Assembly	RIGHT			
1	--	Side Cover	RIGHT	(V495910)		
2	V4959500	Guide Rail	RIGHT			
3	V5286700	Rack Assembly	RIGHT			
4	CB033070	Stopper				03
5	--	Holder Assembly, Top Board		(V257770)		
7	--	Creast B	18 50	(V520850)		
8	EP030260	Bind Head Tapping Screw-1	3.5X16 MFZN2BL		4	01
9	EM040080	Flat Head Tapping Screw-1	4.0X20 MFZN2Y			
10	VU952600	Truss Head Tapping Screw-1	3.5X30 MFZN2BL		4	01
12	EP030470	Bind Head Tapping Screw-1	3.5X20 MFZN2Y		4	01

*: New Parts

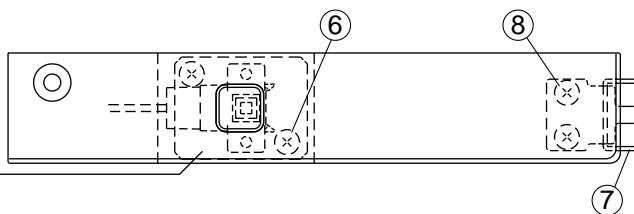
RANK: Japan only

■ END BLOCK ASSEMBLY (L, R)

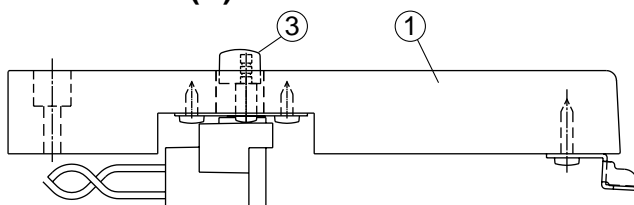
● Power switch assembly



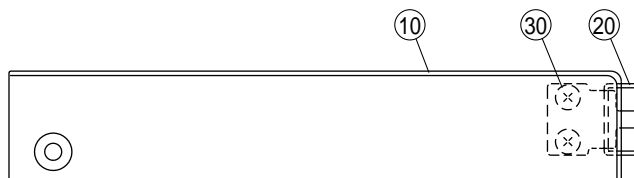
● Top view (R)



● Side view (R)



● Top view (L)



REF. NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	END BLOCK ASSEMBLY		CLP920		
10	V5193600	End Block Assembly	LEFT	(V533560)		
20	--	End Block	LEFT	(V533550)		
30	EP030260	Bind Head Tapping Screw-1	3.5X16 MFZN2BL		2	01
	--	End Block Assembly	RIGHT	(V528550)		
1	V5193700	End Block	RIGHT	(V522000)		
2	--	Angle, Power Switch	0.8 I			
3	VF663400	Push Knob	BL	POWER		02
4	VS353700	Power Switch Assembly				08
4a	VC843500	Push Switch	SDDL1216A J.U.C.S	POWER		03
4b	--	Switch Cover	IVOLY	(V580080)		
5	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
6	EP030320	Bind Head Tapping Screw-1	3.5X10 MFZN2BL		2	01
7	--	Angle H	1.2 L	(V533550)		
8	EP030260	Bind Head Tapping Screw-1	3.5X16 MFZN2BL		2	01

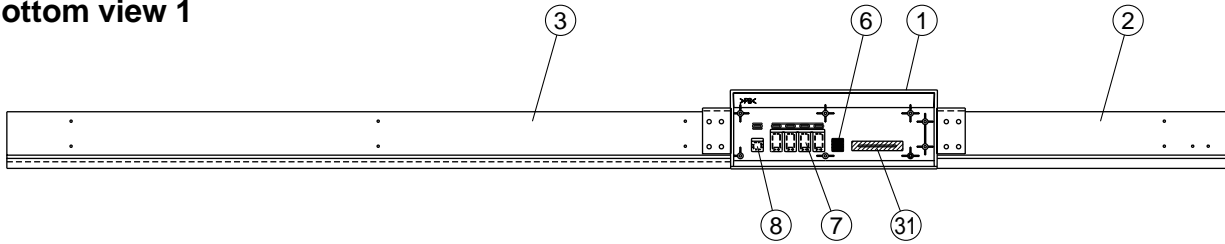


*: New Parts

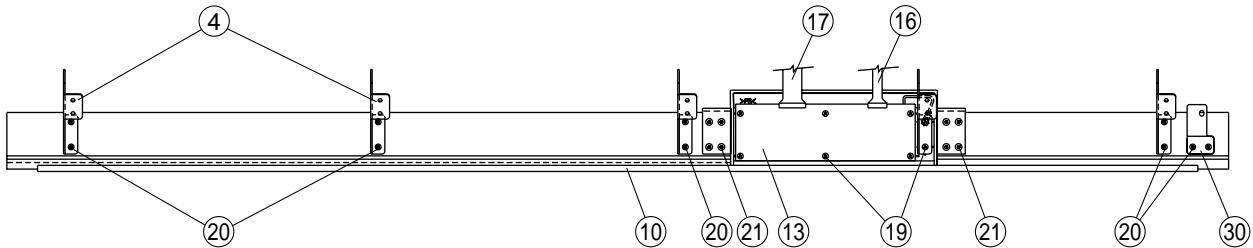
RANK: Japan only

■ PANEL ASSEMBLY

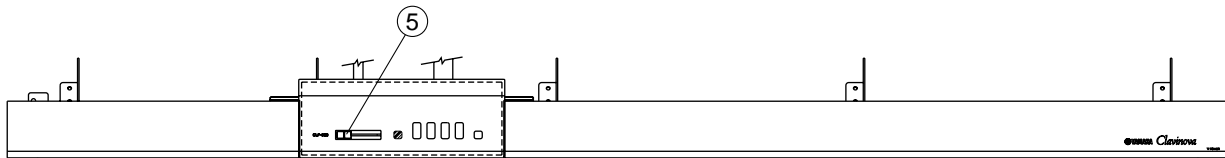
● Bottom view 1



● Bottom view 2



● Top view



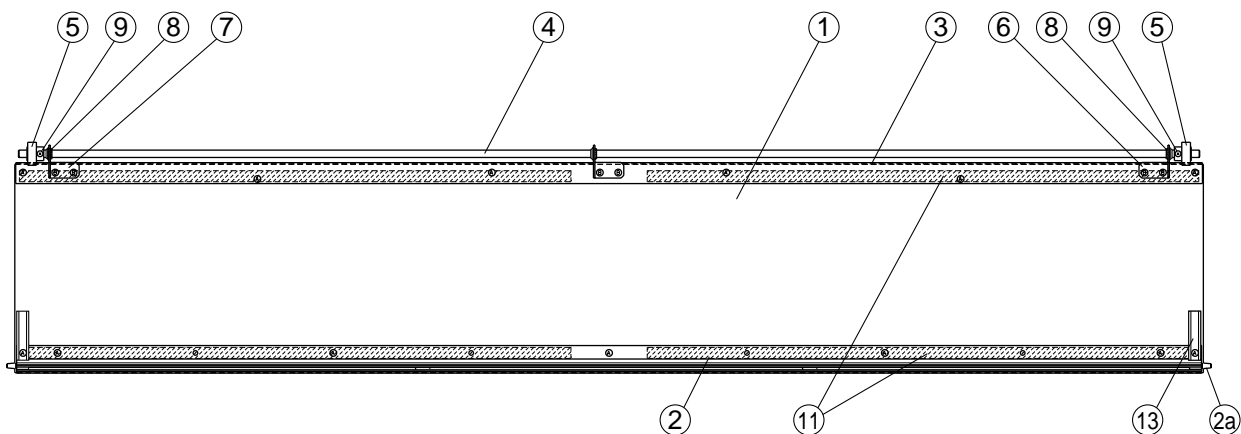
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	PANEL ASSEMBLY		CLP920		
1	V4986300	Panel Assembly		(V498530)		
2	V5430100	Panel	LEFT			
3	V5283800	Panel	RIGHT			
4	--	Panel Holder Assembly		(V498750)	5	
5	V5111200	Slide Knob	CL	MASTER VOLUME		
6	V5283900	Button J	GY	DEMO		
7	V5182600	Button G		GRAND PIANO, E.PIANO, CHURCH ORGAN, STRINGS		
8	V5182800	Button H		REVERB		
10	VU638700	Felt	MK			05
13	V5125900	Circuit Board	PN			
16	--	Connector Assembly	VOL	(V222620)		
17	VK103000	Connector Assembly	12P-200 KRD-KRD			03
19	EP600250	Bind Head Tapping Screw-B	3.0X8 MFZN2Y		8	01
20	EP030230	Bind Head Tapping Screw-1	3.5X10 MFZN2Y		10	01
21	EP030340	Bind Head Tapping Screw-1	3.5X12 MFZN2BL		8	01
30	--	PN Angle		(V588250)		
31	--	Dustproof Cloth	54X10X0.25	(V591130)		

*: New Parts

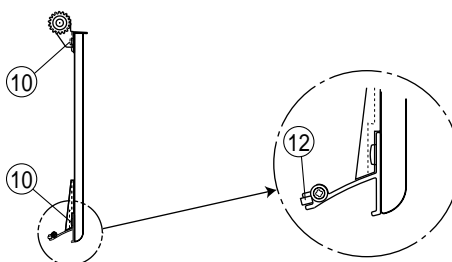
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KEY COVER ASSEMBLY

● Bottom view



● Side view



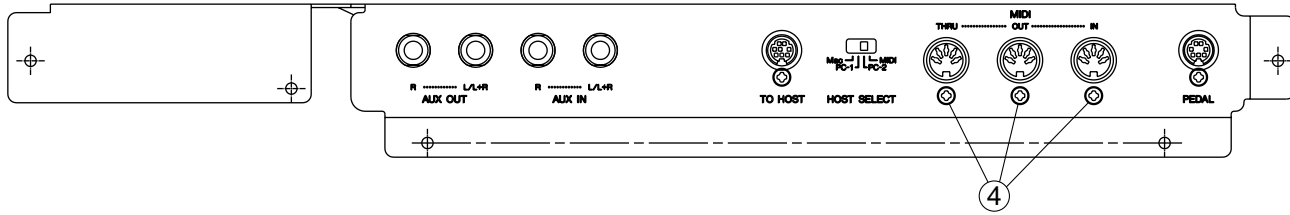
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		KEY COVER ASSEMBLY		CLP920		
	V4957100	Key Cover Assembly	(YMMA)			
	V5385100	Key Cover Assembly	(YCJ)			
1	--	Slide Cover		(V530620)		
1	--	Slide Cover	(YCJ)	(V538520)		
2	V4961900	Sash F Assembly				
2a	V4964400	Guide Pin			2	
3	--	Sash R		(V496180)		
4	--	Rod		(V496240)		
5	VT190400	Gear			2	03
6	VV285600	Holder, Rod	LEFT			03
7	VV285700	Holder, Rod	RIGHT		2	03
8	VS368500	Bushing			3	03
9	EG330060	Bind Head Screw	3.0X10 MFZN2Y		2	01
10	VN920900	Bind Head Tapping Screw-1	3.5X8 MFZN2BL		17	01
11	--	Adhesive Tape	#500600X12	(VO02370)	4	
12	VU457600	Cushion	421X2.5X4		3	03
13	V5902900	Block			2	
14	EP030230	Bind Head Tapping Screw-1	3.5X10 MFZN2Y		2	01

*: New Parts

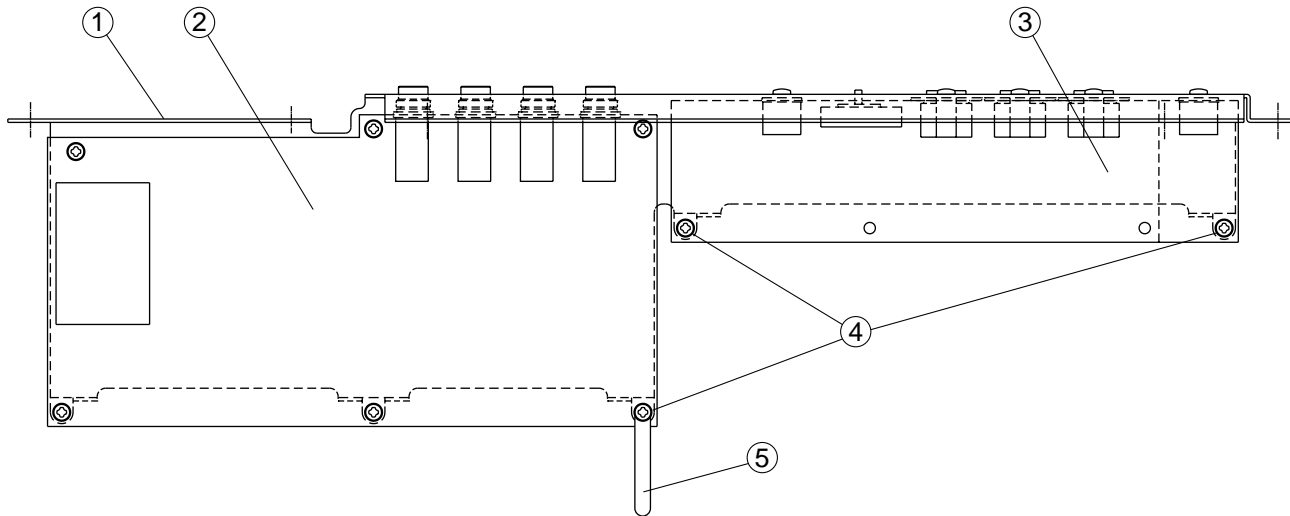
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JACK UNIT

● Side view



● Bottom view



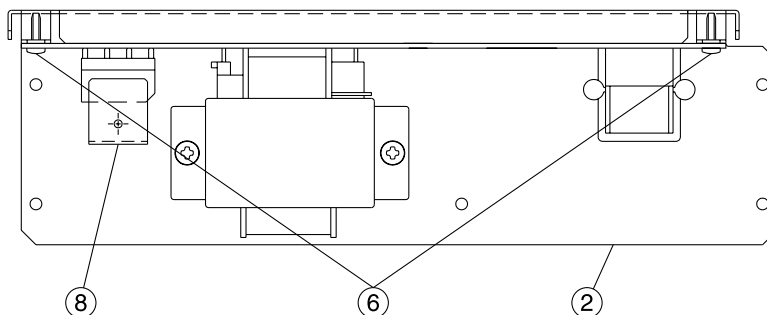
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		JACK UNIT		CLP920		
	--	Jack Unit		(V497980)		
1	--	Angle, JACK		(V497970)		
2	V4938200	Circuit Board	A-JACK			
3	V4938400	Circuit Board	D-JACK			
4	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		13	01
5	CB817510	Cord Binder	S-14B			03

*: New Parts

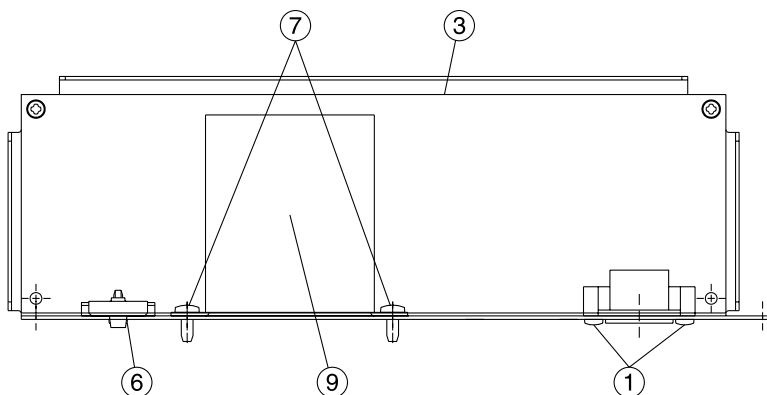
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POWER SUPPLY UNIT

● Top view



● Front view



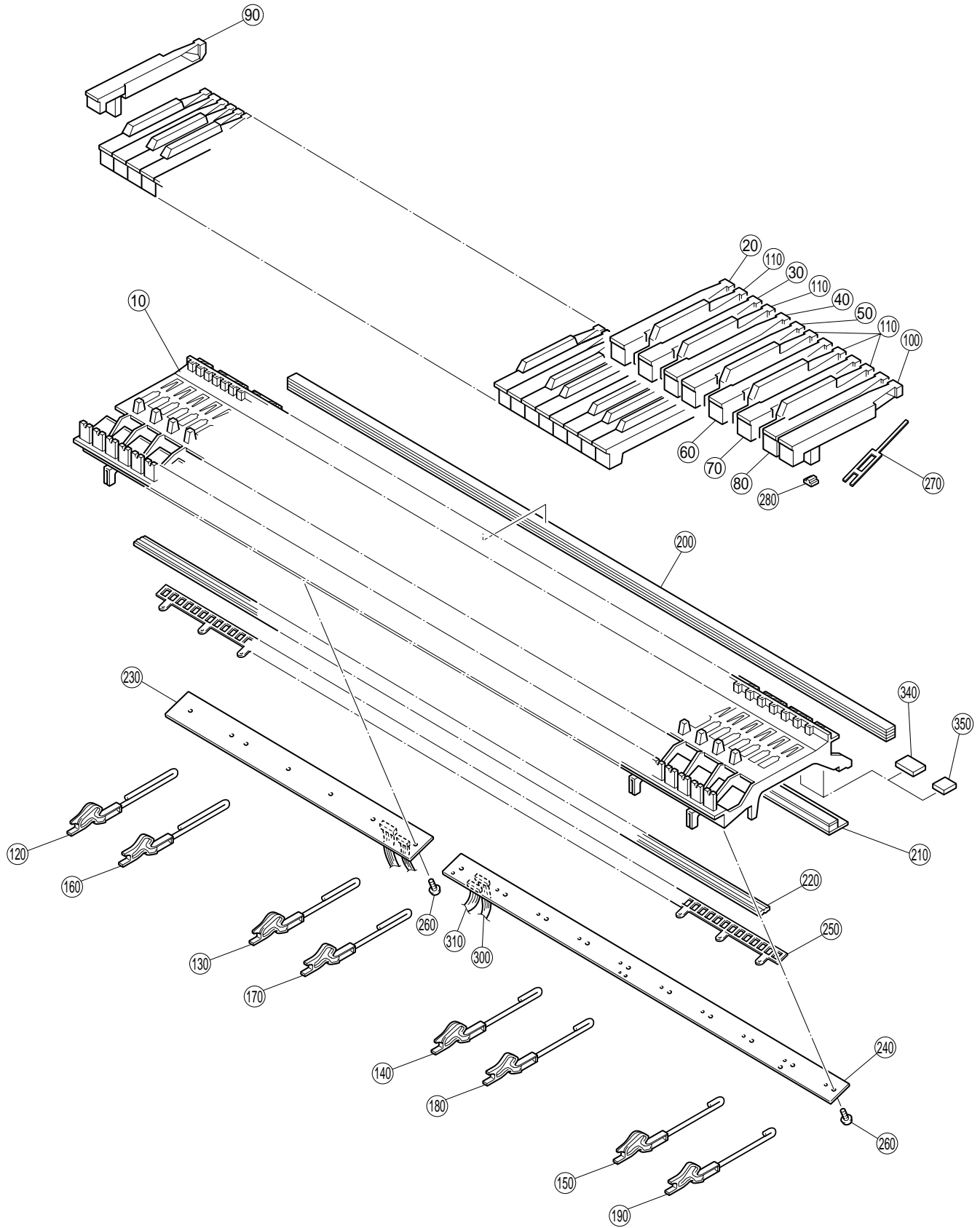
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		POWER SUPPLY UNIT		CLP920		
	V0010200	Power Supply Unit		J		
	V0010300	Power Supply Unit		U		14
	V0010400	Power Supply Unit		B, E, G, R		14
	V0010500	Power Supply Unit		N		22
1	EP600140	Bind Head Tapping Screw-B	3.0X10 MFZN2BL		2	01
2	VZ958800	Plate, AC Inlet		J, U, B, E, G, R		07
2	VZ958900	Panel, AC Inlet		N		08
3	V0010700	Circuit Board	PS	J		11
3	V0010800	Circuit Board	PS	U		11
3	V0011000	Circuit Board	PS	B, E, G, R		11
3	V0011100	Circuit Board	PS	N		12
4	EG330320	Bind Head Screw	3.0X12 MFZN2BL	N	2	01
5	VA211900	Hexagonal Nut	3.0 MFZN2Y	N	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	JUL/CSA A	J, U		09
9	XU446A00	Power Transformer	IEC65 E	B, E, G, R		09
9	XU447A00	Power Transformer	N IEC65 E	N		09



*: New Parts

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KEYBOARD ASSEMBLY

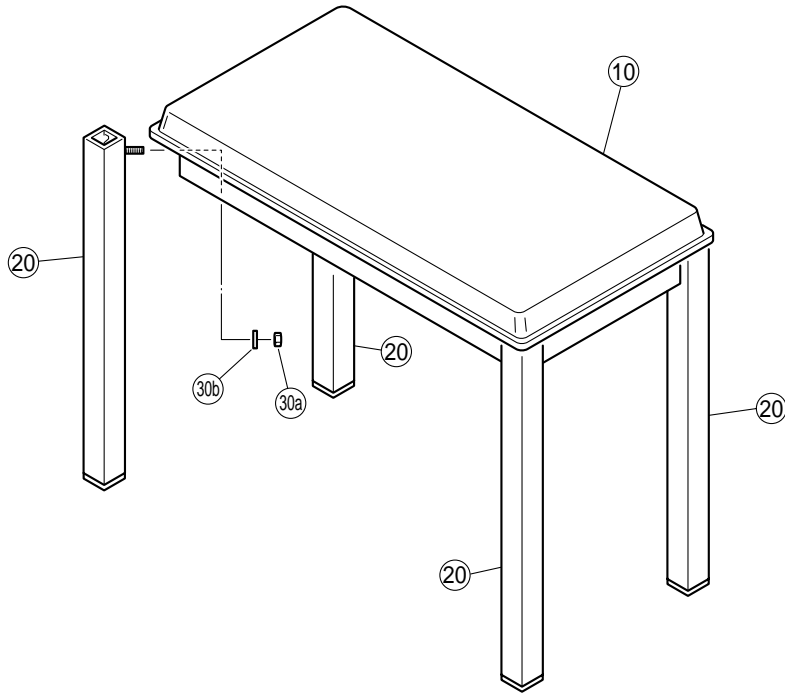


REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	VU431800	KEYBOARD ASSEMBLY		CLP920		
10	--	keyboard Assembly	A88 K6			55
		MK Frame		(VU42210)		
20	VU101000	White Key	C		7	05
30	VU101100	White Key	D		7	05
40	VU101200	White Key	E		7	05
50	VU101300	White Key	F		7	05
60	VU101400	White Key	G		7	05
70	VU101500	White Key	A		7	05
80	VU101600	White Key	B		8	05
90	VU101700	White Key	A'			05
100	VU101800	White Key	C'			05
110	VU102100	Black Key	BL		36	05
120	VU102200	Hammer, White Key		A1-F1	13	06
130	VU102300	Hammer, White Key		G1-E3	13	06
140	VU102400	Hammer, White Key		F3-D5	13	06
150	VU102500	Hammer, White Key		E5-C7	13	06
160	VU102600	Hammer, Black Key		A#1-F#1	9	06
170	VU102700	Hammer, Black Key		G#1-D#3	9	06
180	VU102800	Hammer, Black Key		F#3-C#5	9	06
190	VU102900	Hammer, Black Key		D#5-A#6	9	06
200	VU342100	Stopper				09
210	VU342200	Stopper				09
220	VY693500	Rubber Contact	GH A88 2M			11
230	VU342300	Circuit Board	AEXL88-L			12
240	VU342400	Circuit Board	AEXL88-H			13
250	VU266500	Insulation Spacer	AEX88			06
260	VT413400	Bind Head Tapping Screw-P	3.0X10 MFZN2		17	01
270	VZ417900	Spring R	GH WH/BL	}	88	03
270	V2798500	Spring R	GH WH/BL		88	
280	VU237500	Rubber		}	88	03
280	V2211300	Rubber 2			88	03
300	VU341800	Connector Assembly	9P BLOCK			06
310	VU341900	Connector Assembly	12P NOTE			07
330	VV032300	Protect Wire	12			02
340	VV467900	Stopper Support A	35.5 20 +		7	03
350	VV468100	Stopper Support B	24 20 -		12	03

*: New Parts

RANK: Japan only

■ BENCH



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	BENCH		CLP920		
		Bench	BC-XX	J, U, N (V553140)		
10	V5532900	Bench Board Assembly		J, U, N		
10a	VT655900	Wrench		J, U, N		05
20	V5533200	Leg		J, U, N	4	
30	VS530500	Screw Set		J, U, N		03
30a	03761250	Hexagonal Nut	#1 10.0X1.25 MFZN2	J, U, N	4	01
30b	03765820	Spring Washer	#2 10.0 MFZN2Y	J, U, N	4	01

*: New Parts

RANK: Japan only

ELECTRICAL PARTS

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		ELECTRICAL PARTS		CLP-920		
	VU342400	Circuit Board	AEXL88-H	(XR776C0)		13
	VU342300	Circuit Board	AEXL88-L	(XR775C0)		12
	V4938200	Circuit Board	A-JACK	(XW981B0)		
	V4938100	Circuit Board	DM	(XW980A0)		
	V4938400	Circuit Board	D-JACK	(XW982C0)		
	V5415700	Circuit Board	HP	(XU684A0)(XV858A0)		
	VN637600	Circuit Board	PL(YCJ)	(XL151B0)		03
	VU659100	Circuit Board	PL(YMMA)	(XR898A0)		03
	V5125900	Circuit Board	PN	(XW983A0)		
	V0010700	Circuit Board	PS	J (XU372D0)		11
	V0010800	Circuit Board	PS	U (XU372D0)		11
	V0011000	Circuit Board	PS	B, E, G, R (XU372D0)		11
	V0011100	Circuit Board	PS	N (XU372D0)		12
	V2337300	Circuit Board	PEDAL	(XR780B0)		07
	VU342400	Circuit Board	AEXL88-H	(XR776C0)		13
	--	Dust Proof Cloth		(VU45980)		
CN1	VB390500	Connector Base Post	PH- 9P TE			03
CN2	VB390800	Connector Base Post	PH-12P TE			01
D1	VB941200	Diode	1SS133,1SS176			01
-108	VB941200	Diode	1SS133,1SS176			01
	VU342300	Circuit Board	AEXL88-L	(XR775C0)		12
	--	Dust Proof Cloth		(VU45960)		
CL1	VI653000	Ceramic Resonator	CST4.00MGW040			01
CN1	VB390400	Connector Base Post	PH- 8P TE			01
CN2	VB390500	Connector Base Post	PH- 9P TE			03
CN3	VB390800	Connector Base Post	PH-12P TE			01
D1	VB941200	Diode	1SS133,1SS176			01
D2	VB941200	Diode	1SS133,1SS176			01
D5	VB941200	Diode	1SS133,1SS176			01
-72	VB941200	Diode	1SS133,1SS176			01
J1	VD041700	Jumper Wire	0.55			
J2	VD041700	Jumper Wire	0.55			
KSN2	XR632A00	IC	YMZ702-D	KSN2		09
RA1	VU483500	Resistor Array	RGLD12X103J			01
	FG644100	Ceramic Capacitor-F	0.01 50V Z	C:1-3		01
	VF760000	Electrolytic Cap.-KS	100.00 10.0V	C:5		01
	HF755100	Carbon Resistor	100.0 1/4 J	R:2,3		01
	HF756100	Carbon Resistor	1.0K 1/4 J	R:4		01
	HF759100	Carbon Resistor	1.0M 1/4 J	R:1		01
	V4938200	Circuit Board	A-JACK	(XW981B0)		
	VE683000	Bind Head Tapping Screw-B	3.0X12 MFZN2Y			01
	VD041700	Jumper Wire	0.55			
CN1	LB918050	Base Post Connector	XH 5P TE			01
CN2	VB390700	Connector Base Post	PH-11P TE			01
CN3	LB932040	Base Post Connector	VH- 4P TE			01
CN4	LB918070	Base Post Connector	XH 7P TE			01
CN5	VB390400	Connector Base Post	PH- 8P TE			01
D1	VV925900	Diode	RLS-73 TE-11			01
D2	VV925900	Diode	RLS-73 TE-11			01
HS	--	Heat Sink		(V506910)		
IC1	XU387A00	IC	UPC24M12AHF	REGULATOR +12V		03
IC2	XR925A00	IC	SI-8401L	REGULATOR +5V		05
IC3	XU131A00	IC	TA8233H	POWER AMP 30WX2 BTL		06
IC4	XT773A00	IC	M5227FP	EQUALIZER		03
IC5	XT773A00	IC	M5227FP	EQUALIZER		03
IC6	XF291A00	IC	UPC4570G2	OP AMP		03
IC7	XF291A00	IC	UPC4570G2	OP AMP		03
JK1	VS115400	Phone Jack	LGR4609-7000	AUX IN L(L+R)		01
JK2	VS115400	Phone Jack	LGR4609-7000	AUX IN R		01
JK3	VS115400	Phone Jack	LGR4609-7000	AUX OUT L(L+R)		01
JK4	VS115400	Phone Jack	LGR4609-7000	AUX OUT R		01
L2	VQ724900	Chip Inductance	BK2125HM601-T			01
L4	VQ724900	Chip Inductance	BK2125HM601-T			01
L6	VQ724900	Chip Inductance	BK2125HM601-T			01
L8	VQ724900	Chip Inductance	BK2125HM601-T			01
MFA	--	Holder A		(V518410)		

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
RY1	KC001900	Relay	DC RY12W		07
RY2	VK881200	Relay	DC G5Z-2A-YA		04
TR1	VV556400	Transistor	2SC2412K Q,R,S		01
	UA353220	Mylar Capacitor	2200P 50V J	C:24,29	01
	UA353390	Mylar Capacitor	3900P 50V J	C:36,41	01
	UA654180	Mylar Capacitor	0.018 50V J	C:34,39	01
	UA654390	Mylar Capacitor	0.039 50V J	C:22,27	01
	UA654680	Mylar Capacitor	0.068 50V J	C:33,38	02
	VR168300	Monolithic Mylar Capacitor	ECQ-V1H104JL3	C:21,26,32,37	01
	VR168700	Monolithic Mylar Capacitor	ECQ-V1H224JL3	C:20,25	01
	US035100	Ceramic Capacitor-B (Chip)	0.1 16V K	C:66-73	01
	US062100	Ceramic Capacitor-SL (Chip)	100P 50V J	C:11,12,30,31,78,79	01
	US062470	Ceramic Capacitor-SL (Chip)	470P 50V J	C:49,50	01
	US063100	Ceramic Capacitor-B (Chip)	1000P 50V K	C:2,4,55,57,60,61	01
	US064100	Ceramic Capacitor-B (Chip)	0.01 50V K	C:9,10,15,16,45,47,76,77	01
	US135100	Ceramic Capacitor-F (Chip)	0.1 16V Z	C:74,75	01
	UR828470	Electrolytic Cap.	470.00 10.0V	C:18,19,64	01
	UR837220	Electrolytic Cap.	22.00 16.0V	C:62,63	01
	UR837470	Electrolytic Cap.	47.00 16.0V	C:46,48	01
	UR846470	Electrolytic Cap.	4.7 25.0V	C:42,43	01
	UR847470	Electrolytic Cap.	47.00 25.0V	C:65	01
	UR848100	Electrolytic Cap.	100.00 25.0V	C:7,17	01
	UR848220	Electrolytic Cap.	220.00 25.0V	C:8	01
	UR866100	Electrolytic Cap.	1.00 50.0V	C:5,6,51,52	01
	UR866220	Electrolytic Cap.	2.2 50.0V	C:58,59	01
	UN866100	Electrolytic Cap.-BP	1.00 50.0V	C:13,14	01
	HF453220	Carbon Resistor	2.2 1/4 J	R:46-49	01
	HF455560	Carbon Resistor	560.0 1/4 J	R:64,65	01
	HF456100	Carbon Resistor	1.0K 1/4 J	R:13,18	01
	HF456150	Carbon Resistor	1.5K 1/4 J	R:15,20	01
	HF456180	Carbon Resistor	1.8K 1/4 J	R:14,19	01
	HF456390	Carbon Resistor	3.9K 1/4 J	R:27,32	01
	HF457180	Carbon Resistor	18.0K 1/4 J	R:17,22,24,25,29,30	01
	HF457220	Carbon Resistor	22.0K 1/4 J	R:23,28	01
	RD355560	Carbon Resistor (chip)	560 63M J	R:43,44	01
	RD355680	Carbon Resistor (chip)	680 63M J	R:35,36	01
	RD356100	Carbon Resistor (chip)	1.0K 63M J	R:41,42	01
	RD356330	Carbon Resistor (chip)	3.3K 63M J	R:33,34,53	01
	RD356470	Carbon Resistor (chip)	4.7K 63M J	R:11,12,50,66,67	01
	RD356560	Carbon Resistor (chip)	5.6K 63M J	R:39,40,51,52	01
	RD356820	Carbon Resistor (chip)	8.2K 63M J	R:7,8	01
	RD357100	Carbon Resistor (chip)	10K 63M J	R:1,2,45	01
	RD357330	Carbon Resistor (chip)	33K 63M J	R:5,6,9,10,54	01
	RD357390	Carbon Resistor (chip)	39K 63M J	R:3,4	01
	V4938100	Circuit Board	DM	(XW980A0)	
CN1	VB390800	Connector Base Post	PH-12P TE		01
CN2	VB390100	Connector Base Post	PH- 5P TE		01
CN3	VB390600	Connector Base Post	PH-10P TE		01
CN4	VB390400	Connector Base Post	PH- 8P TE		01
CN5	VB390700	Connector Base Post	PH-11P TE		01
D3	VV925900	Diode	RLS-73 TE-11		01
IC1	XU947C00	IC	HG73C205AFD	SWX00B	09
IC2	XV729A00	IC	IDT71016S15Y-TR	SRAM 1M	09
IC3	XV730A00	IC	W26010AJ-15-EL10	SRAM 1M	09
IC4	XP867A00	IC	UPD63200GS-E1	DAC	07
IC7	XS516A00	IC	UPC2933T-E1	REGULATOR +3.3V	03
IC8	XJ598A00	IC	NJM78L05UA	REGULATOR +5V	02
IC9	XW792A00	IC	SN74HC132NSR	NAND	
IC10	XY709300	IC	MX23C6410	MASKROM 64M PROGRAMWAVE	
TR1	VV556400	Transistor	2SC2412K Q,R,S		01
TR2	VJ927200	Transistor	2SA1162 O,Y		01
X1	VZ703600	Quartz Crystal Unit	8.4672M SMD-49		03
	US061220	Ceramic Capacitor-CH (Chip)	22P 50V J	C:44,45,64	01
	US062100	Ceramic Capacitor-SL (Chip)	100P 50V J	C:1-5,7,8,10,11,13,14,56,58, 60,61,65,67-73	01
	US062220	Ceramic Capacitor-SL (Chip)	220P 50V J	C:42	
	US064100	Ceramic Capacitor-B (Chip)	0.01 50V K	C:22,27,28,30,31,36,39,41,47, 48,50,52,53,59,66	01
	US135100	Ceramic Capacitor-F (Chip)	0.1 16V Z	C:46,54,63	01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	UF017470	Electrolytic Cap. (chip)	47 6.3V	C:49		01
	UF037100	Electrolytic Cap. (chip)	10 16V	C:26,29,35,40,43,62		01
	UF037470	Electrolytic Cap. (chip)	47 16V	C:32-34,55,57		01
	UF246470	Electrolytic Cap.-BP (chip)	4.7 25V	C:37,38		01
	RD350000	Carbon Resistor (chip)	0 63M J	R:102		01
	RD354470	Carbon Resistor (chip)	47 63M J	R:15-19,22,29,30,34,58-90,93, 100,101		01
	RD355100	Carbon Resistor (chip)	100 63M J	R:35,43-46		01
	RD355220	Carbon Resistor (chip)	220 63M J	R:91		01
	RD355330	Carbon Resistor (chip)	330 63M J	R:36		01
	RD355390	Carbon Resistor (chip)	390 63M J	R:95-99		01
	RD356100	Carbon Resistor (chip)	1.0K 63M J	R:39,51,56		01
	RD356150	Carbon Resistor (chip)	1.5K 63M J	R:55		01
	RD356270	Carbon Resistor (chip)	2.7K 63M J	R:53		01
	RD356820	Carbon Resistor (chip)	8.2K 63M J	R:52		01
	RD357100	Carbon Resistor (chip)	10K 63M J	R:14,23-28,37,38,40,48,50,54		01
	RD357220	Carbon Resistor (chip)	22K 63M J	R:47,49		01
	RD357470	Carbon Resistor (chip)	47K 63M J	R:13,20,21,32,33		01
	RD358470	Carbon Resistor (chip)	470K 63M J	R:41,42,57		01
	V4938400	Circuit Board	D-JACK	(XW982C0)		
CN1	VB390600	Connector Base Post	PH-10P TE			01
CN2	VB390100	Connector Base Post	PH- 5P TE			01
D1	VV925900	Diode	RLS-73 TE-11			01
-4	VV925900	Diode	RLS-73 TE-11			01
IC1	XI348A00	IC	SC7SU04FEL	INVERTER		01
IC2	XU073A00	IC	SN75C1168NSR	LINE TRANSCEIVER		05
IC3	VD473200	Photo Coupler	6N137			05
JK1	VT202500	DIN Connector	5P YKF51-50	MIDI IN		01
JK2	VT202500	DIN Connector	5P YKF51-50	MIDI OUT		01
JK3	VT202500	DIN Connector	5P YKF51-50	MIDI THRU		01
JK4	VV269500	DIN Connector	DIN 8P MD-S813	TO HOST		03
JK5	V4874800	DIN Connector	DIN 6P MD-S613	PEDAL		
L3	VQ724900	Chip Inductance	BK2125HM601-T			01
L4	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
L5	VQ724900	Chip Inductance	BK2125HM601-T			01
-19	VQ724900	Chip Inductance	BK2125HM601-T			01
SW1	VQ665200	Slide Switch	SSSF144-S06N-0	HOST SELECT		03
TR1	VV556400	Transistor	2SC2412K Q,R,S			01
-4	VV556400	Transistor	2SC2412K Q,R,S			01
	US064100	Ceramic Capacitor-B (Chip)	0.01 50V K	C:2,8,10,11,13		01
	US135100	Ceramic Capacitor-F (Chip)	0.1 16V Z	C:9		01
	UR837100	Electrolytic Cap.	10.00 16.0V	C:5,12		01
	UN817470	Electrolytic Cap.-BP	47.00 6.3V	C:6		01
	RD350000	Carbon Resistor (chip)	0 63M J	R:6		01
	RD355100	Carbon Resistor (chip)	100 63M J	R:7,8		01
	RD355220	Carbon Resistor (chip)	220 63M J	R:14,15,24-28		01
	RD356100	Carbon Resistor (chip)	1.0K 63M J	R:9,12		01
	RD356150	Carbon Resistor (chip)	1.5K 63M J	R:20,23		01
	RD357100	Carbon Resistor (chip)	10K 63M J	R:2-5,10,11,13,16,19,21,29		01
	RD357220	Carbon Resistor (chip)	22K 63M J	R:17,18,22		01
	V5415700	Circuit Board	HP	(XU684A0)(XV858A0)		
	--	Earth Wire	L=150	(VT89070)		
CN1	LB919070	Base Post Connector	XH 7P SE			01
CN2	VB858100	Connector Base Post	PH- 2P SE			01
FL1	VB971100	Coil	FL5R200QN			01
FL2	VB971100	Coil	FL5R200QN			01
FL3	GE300670	Ferrite Bead	BL02RN2-R62T4	}		02
FL3	VB871100	Ferrite Bead	BL02RN2-R62			01
FL4	VB971100	Coil	FL5R200QN			01
FL5	VB971100	Coil	FL5R200QN			01
FL6	GE300670	Ferrite Bead	BL02RN2-R62T4	}		02
FL6	VB871100	Ferrite Bead	BL02RN2-R62			01
HP1	LB101870	Phone Jack	YKB21-5006	PHONES		03
HP2	LB101870	Phone Jack	YKB21-5006	PHONES		03
	FG413100	Ceramic Capacitor-B	1000P 50V K	C:1-5		01
	UN838100	Electrolytic Cap.-BP	100.00 16.0V	C:6,7		01
	VC731500	Metal Oxide Film Resistor	120.0 1W J	R:1-4		01
	HF455390	Carbon Resistor	390.0 1/4 J	R:5,6		01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
CN1 LED1	VN637600	Circuit Board	PL(YCJ)	(XL151B0)		03
	VB858100	Connector Base Post	PH- 2P SE			01
	VD180000	LED	SLZ-190B-03 RE	power		01
CN1 LED1	VU659100	Circuit Board	PL(YMMA)	(XR898A0)		03
	VB858100	Connector Base Post	PH- 2P SE			01
	VD180000	LED	SLZ-190B-03 RE	power		01
CN001 CN002 LD2 LD3 LD4	V5125900	Circuit Board	PN	(XW983A0)		
	VC166500	Connector Base Post	PH-12P SE			01
	VB858700	Connector Base Post	PH- 8P SE			01
LD5	V1813100	LED	SLZ-181B-09-T6 RE	GRAND PIANO		01
LD6	V1813100	LED	SLZ-181B-09-T6 RE	E.PIANO		01
LD4	V1813100	LED	SLZ-181B-09-T6 RE	CHURCH ORGAN		01
LD5	V1813100	LED	SLZ-181B-09-T6 RE	STRINGS		01
LD6	V1813100	LED	SLZ-181B-09-T6 RE	REVERB		01
SW1	VQ371700	Tact Switch	SKHVBL042A H=7	DEMO		01
SW2	VQ371700	Tact Switch	SKHVBL042A H=7	GRAND PIANO		01
SW3	VQ371700	Tact Switch	SKHVBL042A H=7	E.PIANO		01
SW4	VQ371700	Tact Switch	SKHVBL042A H=7	CHURCH ORGAN		01
SW5	VQ371700	Tact Switch	SKHVBL042A H=7	STRINGS		01
SW6	VQ371700	Tact Switch	SKHVBL042A H=7	REVERB		01
VR001	V4007500	Slide Variable Resistor	1B10K RS30112A9A02	MASTER VOLUME		03
WH1	--	DNG Wire Assembly	L=90	(V551160)		
	V0010700	Circuit Board	PS	J (XU372D0)		11
	V0010800	Circuit Board	PS	U (XU372D0)		11
	V0011000	Circuit Board	PS	B, E, G, R (XU372D0)		11
	V0011100	Circuit Board	PS	N (XU372D0)		12
	VT308100	AC Inlet	CCT9302-0101M	J, B, E, N, G, R		02
	VT308200	AC Inlet	CCT9302-0201	U		02
	LB201530	Fuse Holder	PC-PH1			01
	VD041700	Jumper Wire	0.55			
	VT139600	Voltage Selector	M1684-E	N		04
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	TL 2.00A JU	J, U, N		01
F1	KB003040	Fuse	T 1.00A S	B, E, G, R		01
F2	KB003040	Fuse	T 1.00A S	N		01
F3	KB003630	Fuse	TL 5.00A JU	J, U		01
F3	KB003240	Fuse	T 5.00A S			01
J1	VD041700	Jumper Wire	0.55			
J2	VD041700	Jumper Wire	0.55	U		
L1	VF790900	Coil	SU10V-D20010			03
	F1383470	Capacitor	4700P 400V U.C.S.V	} C:1,2		01
	VY675100	Capacitor	4700P 250V J.U.C.S			01
	VT575200	Capacitor	0.01 400V J.U.C.S	} C:3		01
	VY675000	Capacitor	0.01 250V J.U.C.S			01
	UA654470	Mylar Capacitor	0.047 50V J	C:4		01
	V2126200	Electrolytic Cap.	10000 25.0V	C:5		04
	UR866330	Electrolytic Cap.	3.3 50.0V	C:6 J		01
	UJ866330	Electrolytic Cap.	3.3 50.0V	C:6 U, B, E, N, G, R		01
	HF456100	Carbon Resistor	1.0K 1/4 J	} R:1		01
	HF756100	Carbon Resistor	1.0K 1/4 J			01
	V2337300	Circuit Board	PEDAL	(XR780B0)		07
	VD041700	Jumper Wire	0.55			
	--	GND Wire	L=30	(VZ01760)		
CN3	VB390200	Connector Base Post	PH- 6P TE			01
	VT015700	AC Cord Set	J 2P 2.5m 7A	J		05
	V2916900	AC Cord Set	J 2P 7A 2.5m	J		05
	V3126200	AC Cord Set	J 2P 2.5m 7A	J		
	VT015800	AC Cord Set	U2P 2.44m 7A	U		06

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*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
△	V2917000	AC Cord Set	UC 2P 7A 2.44m	U		
△	V3126400	AC Cord Set	U 2P 2.5m	U		
△	VT016000	AC Cord Set	B 2P 2.5m	B, G, R		08
△	V3126500	AC Cord Set	B 2P 2.5m	B, G, R		
△	VT015900	AC Cord Set	E 2P 2.5m	E, N		05
△	V2917100	AC Cord Set	E 2P 2.5m 2.5A	E, N		05
△	V3126300	AC Cord Set	E 2P 2.5m	E, N		
△	VK726100	Connector	CCT5902	N		03
	V5771000	Headphone	P402522A0000	J		
	V0010200	Power Supply Unit		J		
	V0010300	Power Supply Unit		U		14
	V0010400	Power Supply Unit		B, E, G, R		14
	V0010500	Power Supply Unit		N		22
	XU452A00	Speaker	16.0cm 4ohm 20W			10
△	VC843500	Push Switch	SDDL1216A J.U.C.S	POWER		03
△	XU445A00	Power Transformer	J/UL/CSA A	J, U		09
△	XU446A00	Power Transformer	IEC65 E	B, E, G, R		09
△	XU447A00	Power Transformer	N IEC65 E	N		09
	VY693500	Rubber Contact	GH A88 2M			11

*: New Parts

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Clavinova[®]

CLP-930

PARTS LIST

■ CONTENTS

OVERALL ASSEMBLY	2	END BLOCK ASSEMBLY	13
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PEDAL ASSEMBLY	9	POWER SUPPLY UNIT	17
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MUSIC REST ASSEMBLY	11	BENCH	20
SIDE COVER ASSEMBLY	12	ELECTRICAL PARTS	21

Note) DESTINATION ABBREVIATIONS

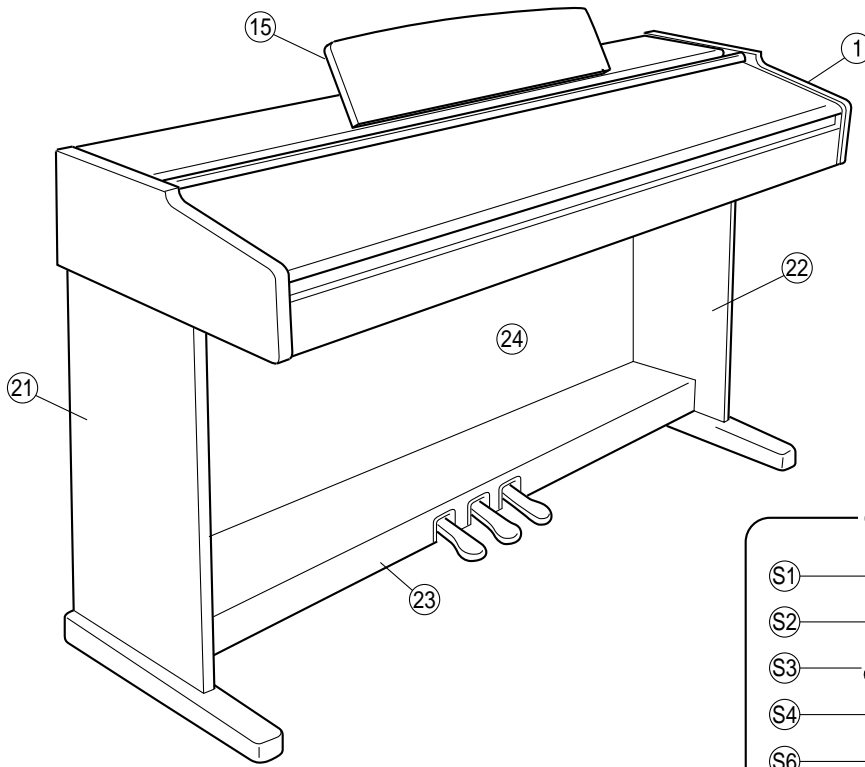
A: Australian model	M: South African model
B: British model	O: Chinese model
C: Canadian model	Q: South-east Asia model
D: German model	T: Taiwan model
E: European model	U: U.S.A. model
F: French model	V: General export model (110V)
H: North European model	W: General export model (220V)
I: Indonesian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

■ WARNING

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

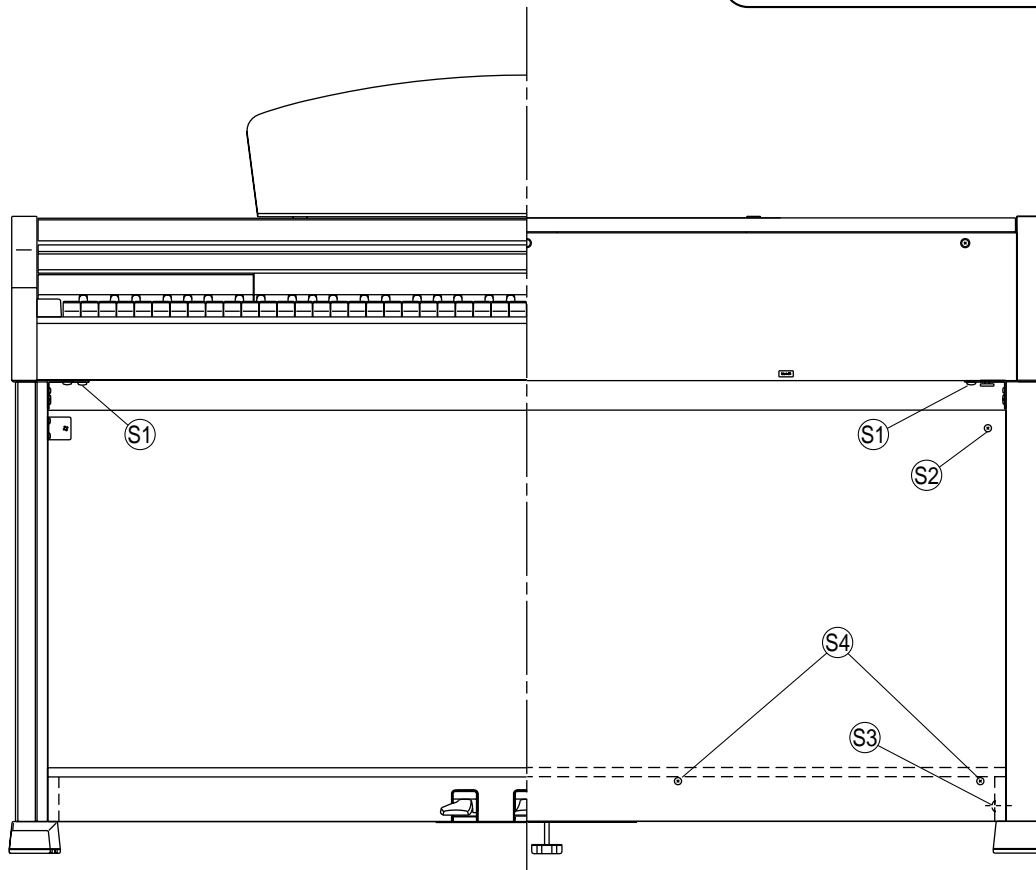
- The numbers in "QTY" shows quantities for each unit.
- The parts with "--" in "Part No." are not available as spare parts.
- The second letter of the shaded () part number is I, not one.
- The second letter of the shaded () part number is O, not zero.
- This mark "}" in the REMARKS column means these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

OVERALL ASSEMBLY



6 Screw set

S1		(6 × 16)
S2		(4 × 12)
S3		(6 × 25)
S4		(4 × 20)
S6		



● Front view

● Rear view

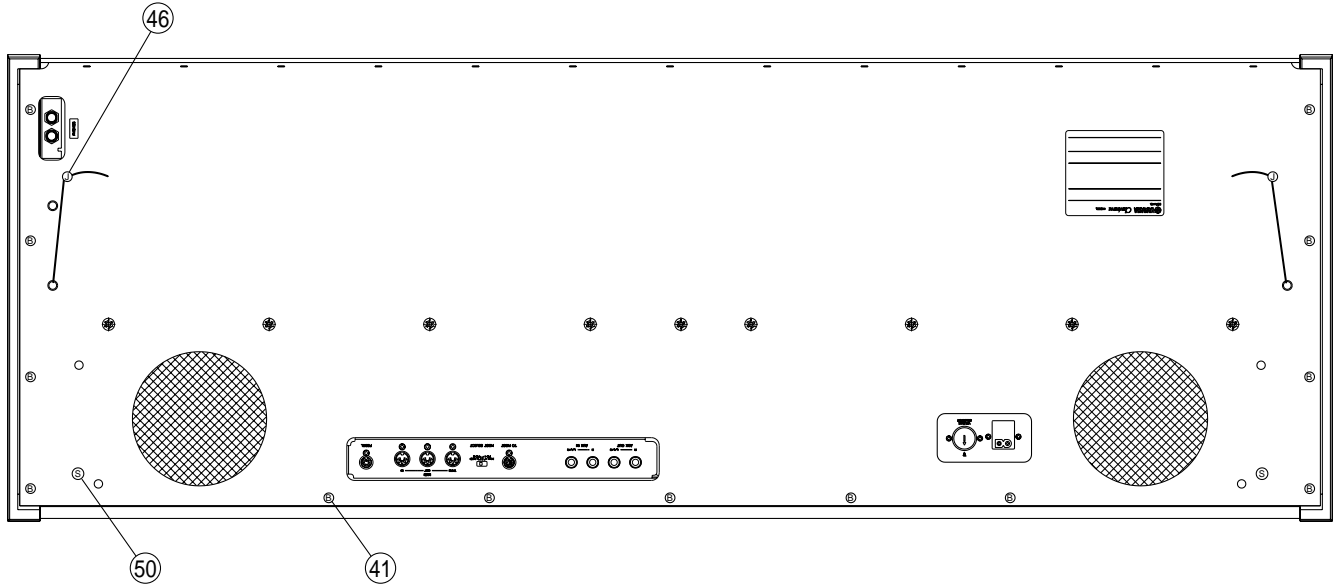
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		OVERALL ASSEMBLY		CLP-930		
1	--	Main Unit		J (V497610)		
1	--	Main Unit		U (V497620)		
1	--	Main Unit		B, E, G, R (V497640)		
1	--	Main Unit		N (V497660)		
△	5	VT015700 AC Cord Set	J 2P 2.5m 7A	J		05
△	5	V2916900 AC Cord Set	J 2P 7A 2.5m	J		05
△	5	V3126200 AC Cord Set	J 2P 2.5m 7A	J		
△	5	VT015800 AC Cord Set	U2P 2.44m 7A	U		06
△	5	V2917000 AC Cord Set	UC 2P 7A 2.44m	U		06
△	5	V3126400 AC Cord Set	U 2P 2.5m	U		
△	5	VT016000 AC Cord Set	B 2P 2.5m	B, G, R		08
△	5	V3126500 AC Cord Set	B 2P 2.5m	B, G, R		
△	5	VT015900 AC Cord Set	E 2P 2.5m	E, N		05
△	5	V2917100 AC Cord Set	E 2P 2.5m 2.5A	E, N		05
△	5	V3126300 AC Cord Set	E 2P 2.5m	E, N		
△	6	V5283500 Screw Set				03
△	13	VK726100 Connector	CCT5902	N		03
	15	V4976800 Music Rest Assembly				
	21	-- Side Board Assembly	LEFT		(V494240)	
	22	-- Side Board Assembly	RIGHT		(V494250)	
	23	-- Pedal Box Assembly	CL		(V494300)	
	24	V5199100 Back Board Set	CL			14
		ACCESSORIES				
	7	-- Bench	BC-100DR	J, U, N	(V553140)	
	11	V5771000 Headphone	P402522A0000	J		07
		V5283500 Screw Set				03
S1	EG360020	Bind Head Screw	6.0X16 MFZN2BL			4 01
S2	VP367300	Truss Head Screw	4.0X12 MFZN2BL			2 01
S3	VQ448400	Truss Head Screw	6.0X25 MFZN2BL			4 01
S4	03747290	Truss Head Tapping Screw-1	4.0X20 MFZN2BL			4 01
S6	VR410300	Cord Clamp Set				03
S6a	VP592100	Cord Clamper	DKN-5B (VHB)			2 03
		JIGS				
	TX900761	Hex,Wrench	6mm			09
	TX000670	Rod				99

*: New Parts

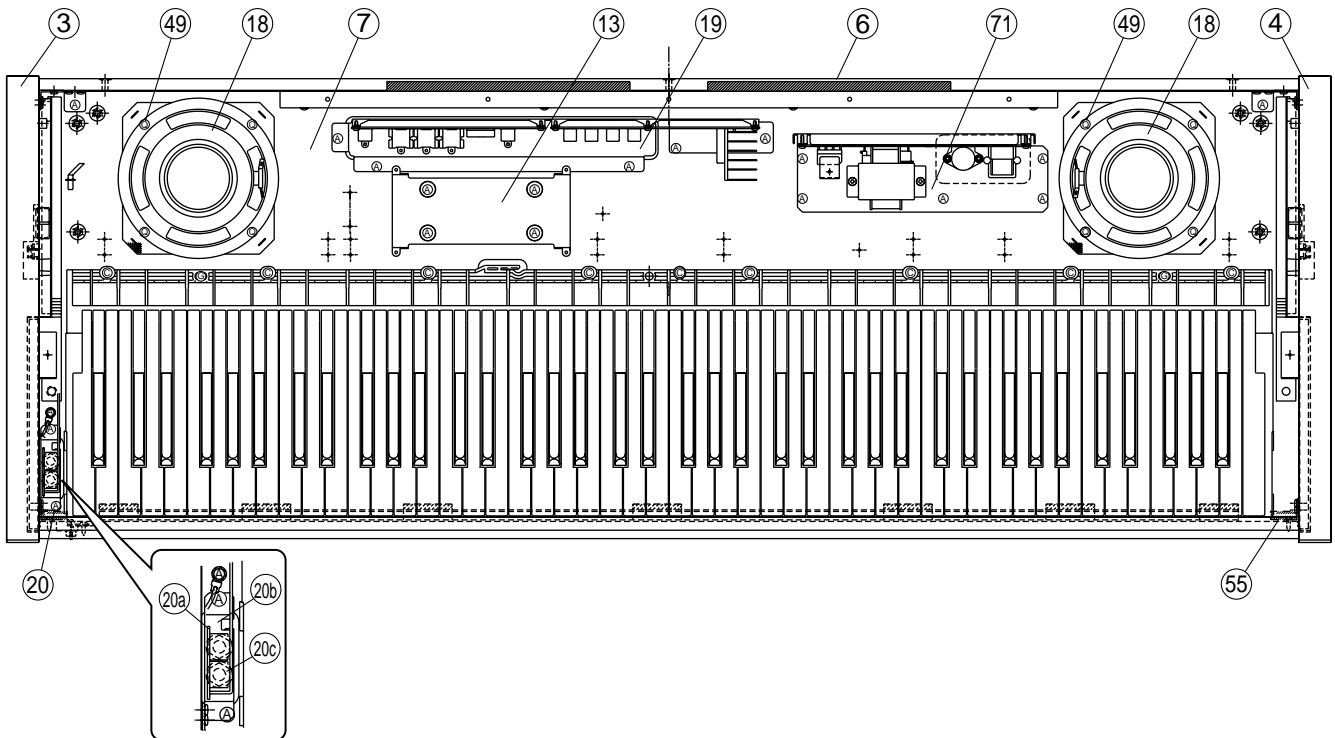
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MAIN UNIT

● Bottom view

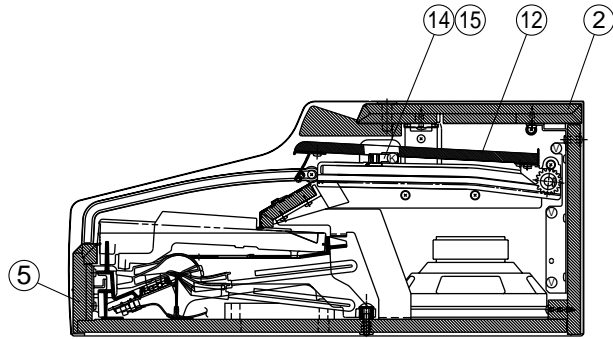


● Top view 1

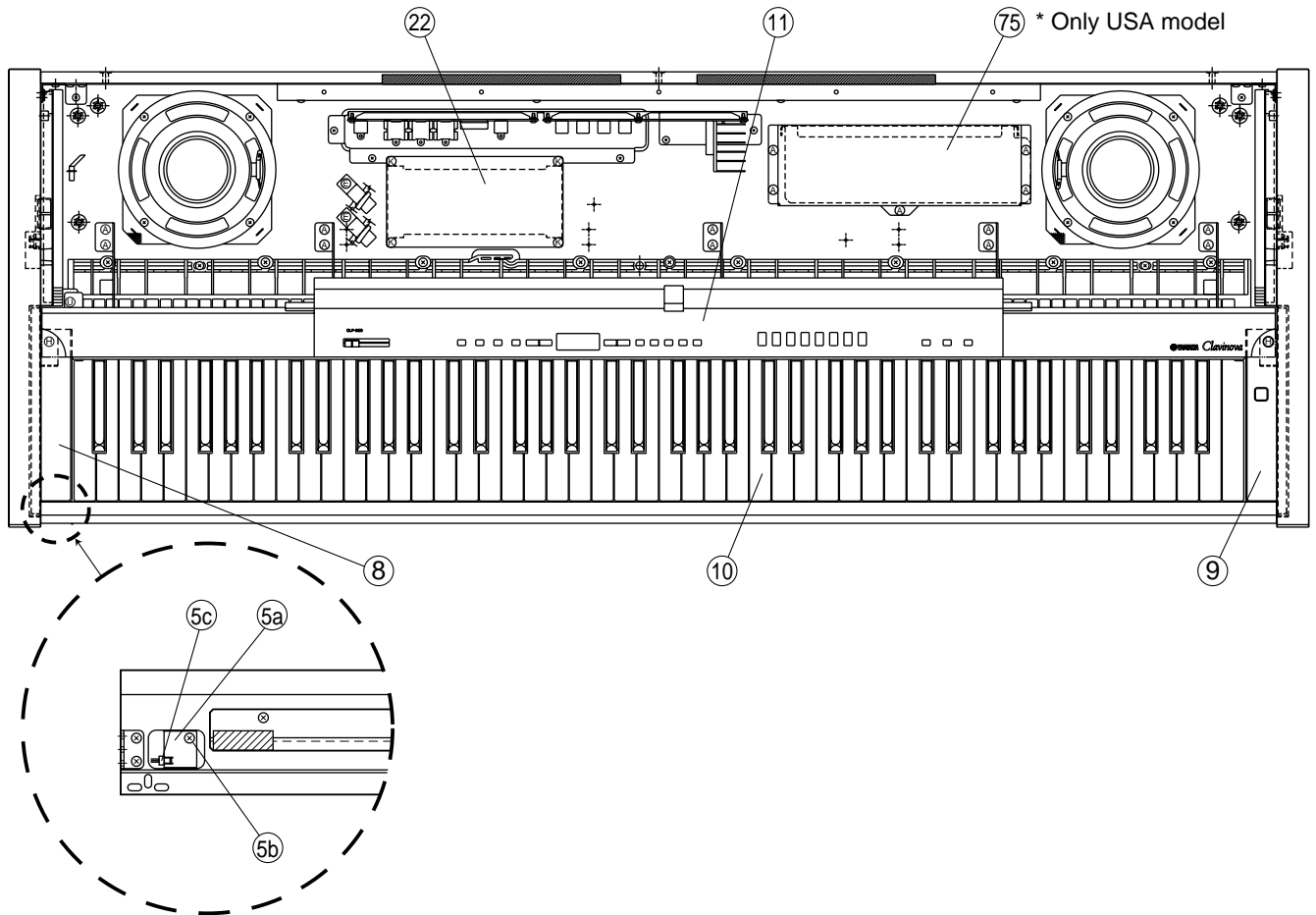


● Side view

SCREW	REF NO.	PART NO.
(A)	40	EP030340
(B)	41	EN630190
(C)	42	VV040700
(E)	43	EN630230
(G)	44	EP040230
(H)	45	VU952600
(J)	46	EP030240
(K)	47	EP600190
(N)	48	VB934000
(Q)	49	20338800
(S)	50	VN887900
(U)	51	EP600240
(V)	52	EP030190



● Top view 2



Note : Connector assemblies (26), (27), (28), (29), (32), (33), (35) are shown in the CIRCUIT BOARD LAYOUT section on page *.

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	MAIN UNIT		CLP930		
	--	Main Unit	J	J (V497610)		
	--	Main Unit	U	U (V497620)		
	--	Main Unit	E	B, E, G, R (V497640)		
	--	Main Unit	N	N (V497660)		
1	--	Main Unit Sub Assembly		(V497670)		
40	EP030340	Bind Head Tapping Screw-1	3.5X12 MFZN2BL	U	3	01
71	V0010200	Power Supply Unit		J		
71	V0010300	Power Supply Unit		U		14
71	V0010400	Power Supply Unit		B, E, G, R		14
71	V0010500	Power Supply Unit		N		22
75	V2035900	Cover, Power Supply Unit		U		07
	--	Main Unit Sub Assembly		(V497670)		
2	V4956400	Top Board Assembly				
3	V4956500	Side Cover Assembly	LEFT			
4	V4956600	Side Cover Assembly	RIGHT			
5	AAX14850	Keybed & F. Rail Assembly	(V475670 + V497690)			
5a	VN637600	Circuit Board	PL(YCJ)			03
5a	VU659100	Circuit Board	PL(YMMA)			03
5b	--	Connector Assembly	2P-150	(VK09960)		
5c	EP030340	Bind Head Tapping Screw-1	3.5X12 MFZN2BL		11	01
6	V5397200	Back Top Board Assembly				14
8	--	Side Board Assembly	LEFT	(V533560)		
9	--	Side Board Assembly	RIGHT	(V528550)		
10	VU431800	Keyboard Assembly	A88 K6			55
11	--	Panel Assembly		(V497700)		
12	V4957100	Key Cover Assembly	(YMMA)			
12	V5385100	Key Cover Assembly	(YCJ)			21
13	--	Angle	M P.C.B.	(V495720)		
14	VS312100	Rack Cover	LEFT			03
15	VS312200	Rack Cover	RIGHT			03
18	XU452A00	Speaker	16.0cm 4ohm 20W		2	10
19	--	Jack Unit		(V568020)		
20	--	Headphones Jack Assembly		(V541550)		
20a	V5415700	Circuit Board	HP			
20b	VN631800	Plate				04
20c	VB508600	Hexagonal Nut	12.0 14X2 MFZN2BL		2	01
22	V4938600	Circuit Board	DM			
26	--	Connector Assembly	SP	(V004520)		
27	--	Connector Assembly	HP	(V547800)		
28	--	Connector Assembly	POWER SUPPLY	(V004510)		
29	--	Connector Assembly	MK-LF	(V550670)		
32	--	Connector Assembly	5P-150 KRD-KRD	(VK10040)		
33	VJ989200	Connector Assembly	10P-100 KRD-KRD			05
35	VK101600	Connector Assembly	11P-150 KRD-KRD			03
37	CB069250	Cord Holder	BK-1		3	01
38	VP834600	Adhesive Tape	12X50		4	02
40	EP030340	Bind Head Tapping Screw-1	3.5X12 MFZN2BL		29	01
41	EN630190	Truss Head Tapping Screw-1	3.5X25 MFZN2BL		13	01
42	VV040700	Pan Head Screw	5.0X25 MFZN2Y PW		9	01
43	EN630230	Truss Head Tapping Screw-1	3.5X14 MFZN2Y		2	01
44	EP040230	Bind Head Tapping Screw-1	4.0X14 MFZN2Y		2	01
45	VU952600	Truss Head Tapping Screw-1	3.5X30 MFZN2BL		2	01
46	EP030240	Bind Head Tapping Screw-1	3.5X12 MFZN2Y		2	01
47	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		6	01
48	VB934000	Truss Head Screw	4.0X20 MFZN2BL		3	01
49	20338800	Truss Head Tapping Screw-1	4X20 MFZN2Y		8	01
50	VN887900	Guide Screw	+ 6X14		2	03
51	EP600240	Bind Head Tapping Screw-B	4X10 MFZN2BL			01
52	EP030190	Bind Head Tapping Screw-1	3.5X16 MFZN2Y		10	01
55	--	Electric Adhesive Tape	25X30 7701	(V591400)	2	

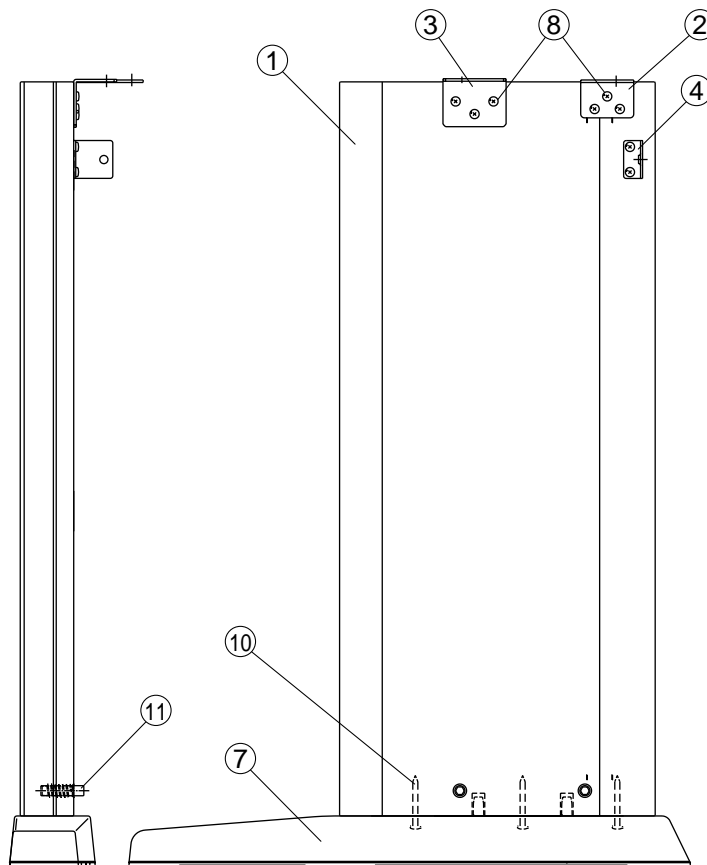
*: New Parts

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SIDE BOARD ASSEMBLY (L, R)

* This figure shows a side board assembly (L).

● Side view



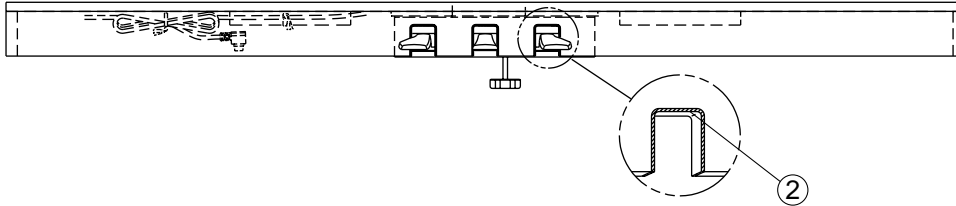
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	SIDE BOARD ASSEMBLY		CLP930		
1	V4964900	Side Board Assembly	LEFT	(V494240)		
2	VS295500	Side Board	LEFT			05
3	VZ885300	Angle Bracket	LEFT			04
4	VQ958300	Angle Bracket	2.0 L MFZN2			
4	VQ958300	Holder, Back Board				05
7	V4960400	Stand Base	LEFT			06
8	EP030580	Bind Head Tapping Screw-1	3.5X20 MFZN2BL		8	01
10	V5344700	Bind Head Tapping Screw-1	4.0X40 MFZN2Y		3	01
11	V5251600	Nut	TYPE M M6XL33		2	01
	--	Side Board Assembly	RIGHT	(V494250)		
1	V4965100	Side Board	RIGHT			
2	VS295600	Side Board	RIGHT			05
3	VZ885300	Angle Bracket	RIGHT			04
4	VQ958300	Angle Bracket	2.0 L MFZN2			
4	VQ958300	Holder, Back Board				05
7	V5097500	Stand Base	RIGHT			06
8	EP030580	Bind Head Tapping Screw-1	3.5X20 MFZN2BL		8	01
10	V5344700	Bind Head Tapping Screw-1	4.0X40 MFZN2Y		3	01
11	V5251600	Nut	TYPE M M6XL33		2	01

*: New Parts

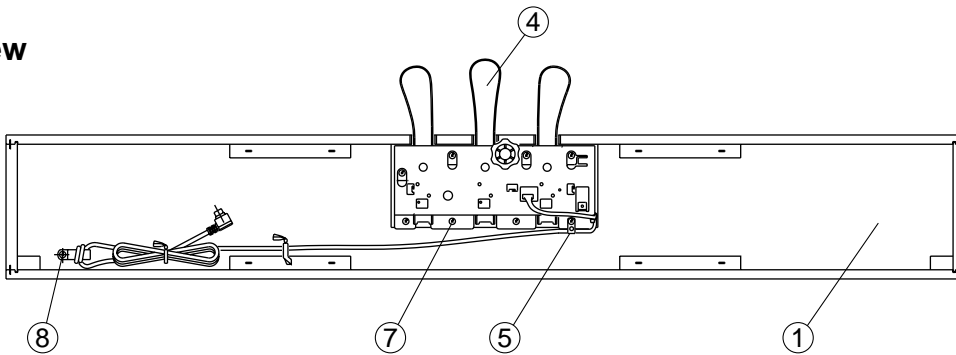
RANK: Japan only

■ PEDAL BOX ASSEMBLY

● Front view



● Bottom view



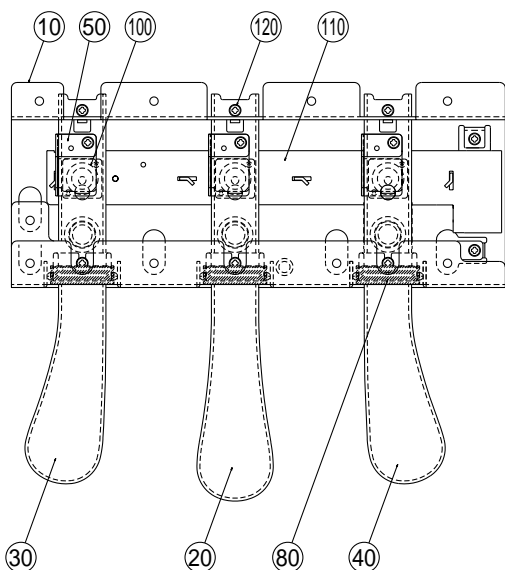
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	PEDAL BOX ASSEMBLY		CLP930		
	--	Pedal Box Assembly		(V494300)		
1	V4963300	Pedal Box Wooden Assembly	J			
1	V5314300	Pedal Box Wooden Assembly				
2	VU464300	Felt	115X12X2 RE		3	03
4	V0053700	Pedal Assembly				18
5	CB065520	Nylon Clamp	NK-3N			01
7	EP040230	Bind Head Tapping Screw-1	4.0X14 MFZN2Y		8	01
8	03747270	Truss Head Tapping Screw-1	4.0X12 MFZN2BL			

*: New Parts

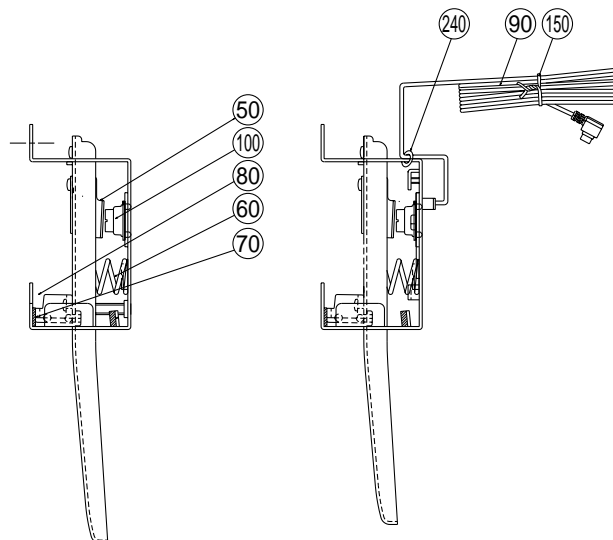
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■ PEDAL ASSEMBLY

● Top view



● Side view



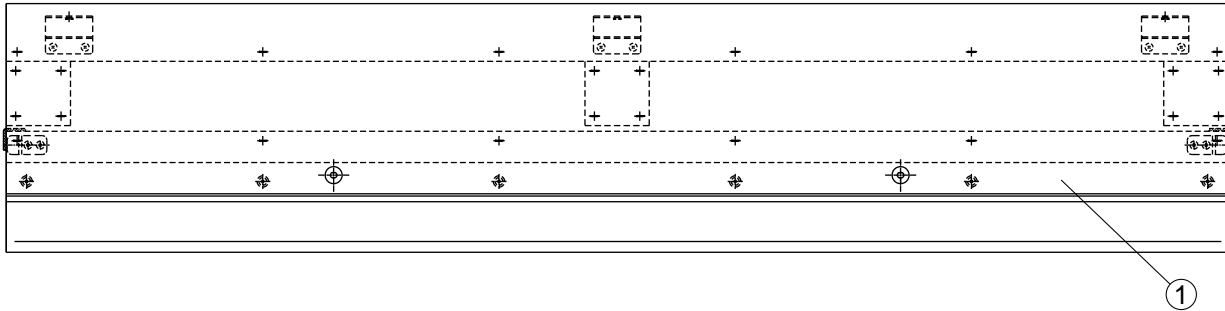
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		PEDAL ASSEMBLY		CLP930		
	V0053700	Pedal Assembly				18
10	VU339700	Pedal Frame				09
20	VU362000	Pedal Piece	CENTER	Sostenuto		08
30	VU362100	Pedal Piece	LEFT	Soft		08
40	VU362200	Pedal Piece	RIGHT	Danper		08
50	VV433500	Actuator	PEDAL		3	03
60	VP348100	Pedal Spring			3	03
70	VU346500	Felt	BL		6	03
80	VU339800	Shutter	PEDAL		3	03
90	V0044700	Connector Assembly	PK-LF			10
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

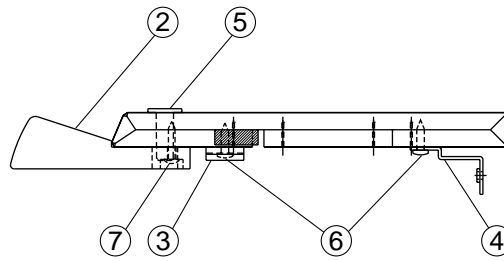
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TOP BOARD ASSEMBLY

● Top view



● Side view



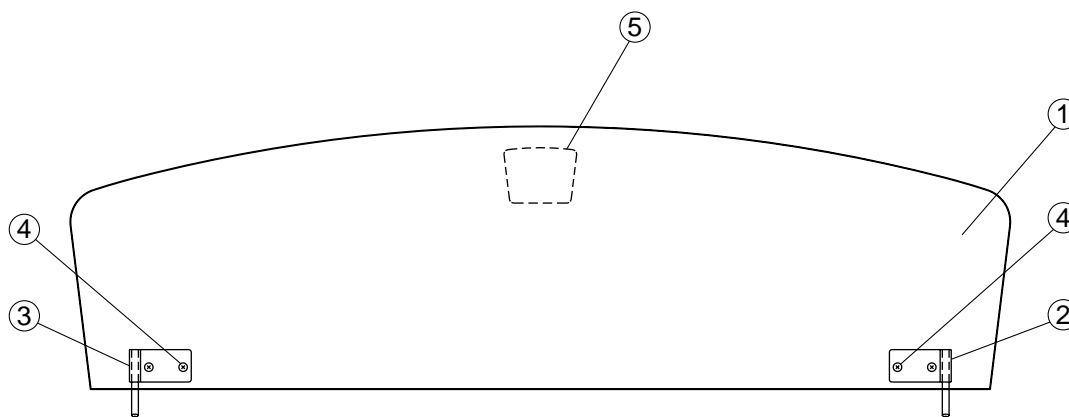
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	V4956400	TOP BOARD ASSEMBLY		CLP930		
1	--	Top Board Assembly		(V495840)		
2	--	Top Board Front Rail		(V495890)		
3	VQ485700	Holder, Top Board			2	03
4	VQ485800	Holder, Top Board			3	05
5	VF179400	Bushing	BL		2	01
6	EP040170	Bind Head Tapping Screw-1	4.0X16 MFZN2Y		10	01
7	EN630260	Truss Head Tapping Screw-1	3.5X20 MFZN2Y		6	01

*: New Parts

RANK: Japan only

MUSIC REST ASSEMBLY

● Rear view



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	V4976800	MUSIC REST ASSEMBLY		CLP930		
1	--	Music Rest Assembly				
		Music Rest		(V497750)		
2	VF055200	Angle Bracket	EL-25			05
3	VF055300	Angle Bracket	EL-25			05
4	20404200	Bind Head Tapping Screw-1	3.0X10 MFZN2BL		4	
5	V5782300	Badge	CLAVINOVA			05

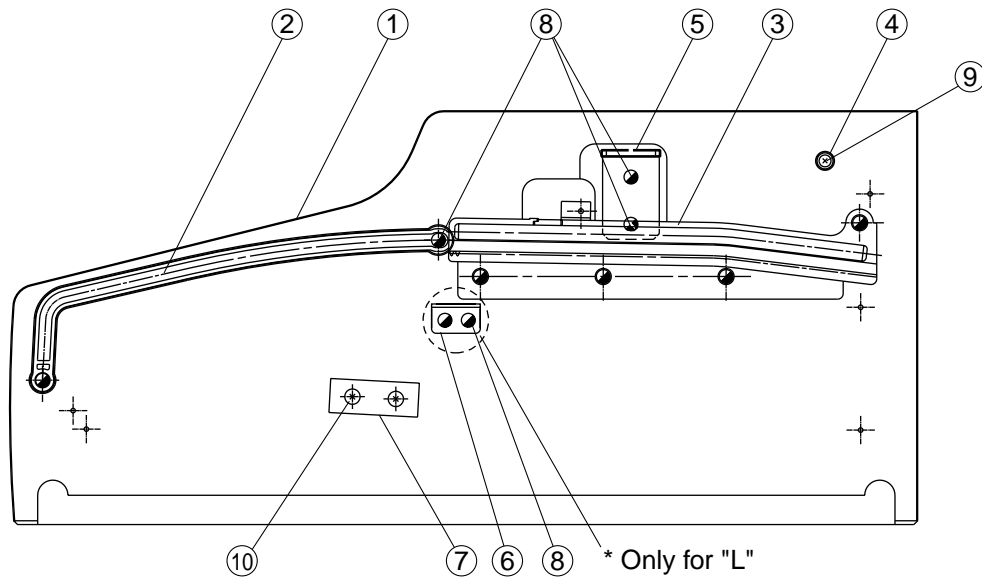
*: New Parts

RANK: Japan only

■ SIDE COVER ASSEMBLY (L, R)

* This figure shows a side cover assembly (L).

● Side view



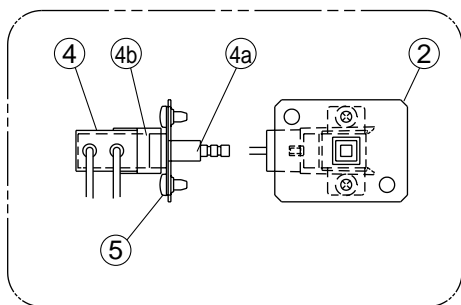
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	V4956500	SIDE COVER ASSEMBLY		CLP930		
1	--	Side Cover Assembly	LEFT			
2	--	Side Cover	LEFT	(V495900)		
3	V4959400	Guide Rail	LEFT			03
4	V5286600	Rack Assembly	LEFT			04
5	CB033070	Stopper				03
6	--	Holder Assembly, Top Board		(V257770)		
7	--	Angle P		(V588240)		
8	--	Creast B	18 50	(V520850)		
8	EP030260	Bind Head Tapping Screw-1	3.5X16 MFZN2BL		6	01
9	EM040080	Flat Head Tapping Screw-1	4.0X20 MFZN2Y			
10	VU952600	Truss Head Tapping Screw-1	3.5X30 MFZN2BL		4	01
12	EP030470	Bind Head Tapping Screw-1	3.5X20 MFZN2Y		4	01
	V4956600	Side Cover Assembly	RIGHT			
1	--	Side Cover	RIGHT	(V495910)		
2	V4959500	Guide Rail	RIGHT			03
3	V5286700	Rack Assembly	RIGHT			04
4	CB033070	Stopper				03
5	--	Holder Assembly, Top Board		(V257770)		
7	--	Creast B	18 50	(V520850)		
8	EP030260	Bind Head Tapping Screw-1	3.5X16 MFZN2BL		4	01
9	EM040080	Flat Head Tapping Screw-1	4.0X20 MFZN2Y			
10	VU952600	Truss Head Tapping Screw-1	3.5X30 MFZN2BL		4	01
12	EP030470	Bind Head Tapping Screw-1	3.5X20 MFZN2Y		4	01

*: New Parts

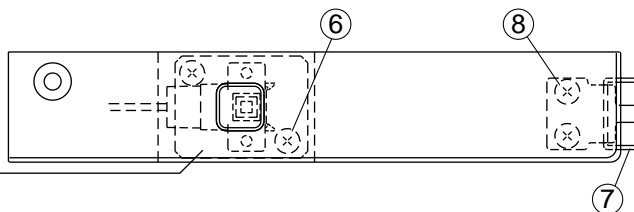
RANK: Japan only

■ END BLOCK ASSEMBLY (L, R)

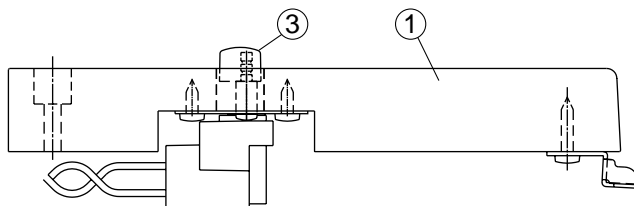
● Power switch assembly



● Top view (R)



● Side view (R)



● Top view (L)



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	END BLOCK ASSEMBLY		CLP930		
10	V5193600	End Block Assembly	LEFT	(V533560)		10
20	--	End Block	LEFT	(V533550)		
30	EP030260	Bind Head Tapping Screw-1	3.5X16 MFZN2BL		2	01
	--	End Block Assembly	RIGHT	(V528550)		
1	V5193700	End Block	RIGHT	(V522000)		11
2	--	Power Switch Angle	0.8 I			
3	VF663400	Knob	BL	POWER		02
4	VS353700	Power Switch Assembly				08
4a	VC843500	Push Switch	SDDL1216A J.U.C.S	POWER		03
4b	--	Switch Cover	IVOLY	(V580080)		
5	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
6	EP030320	Bind Head Tapping Screw-1	3.5X10 MFZN2BL		2	01
7	--	Angle, H	1.2 L	(V533550)		
8	EP030260	Bind Head Tapping Screw-1	3.5X16 MFZN2BL		2	01

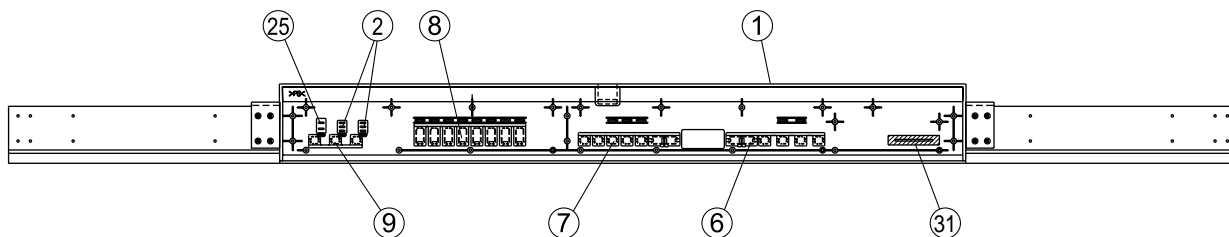


*: New Parts

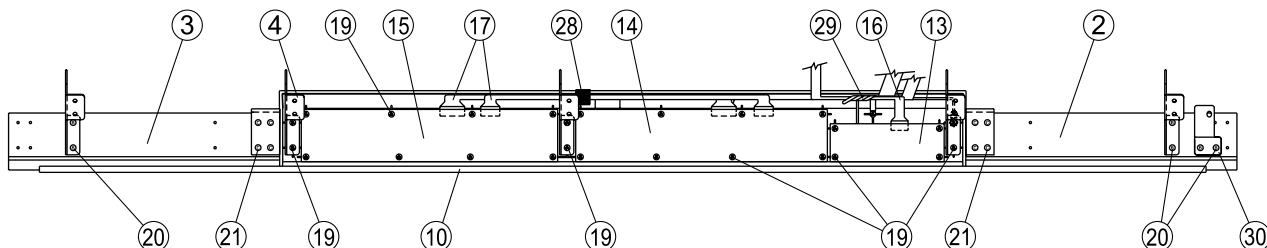
RANK: Japan only

■ PANEL ASSEMBLY

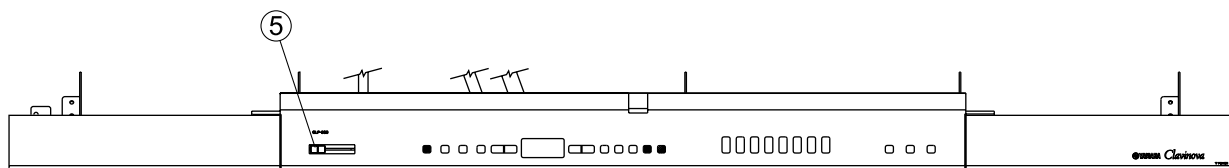
● Bottom view 1



● Bottom view 2



● Top view



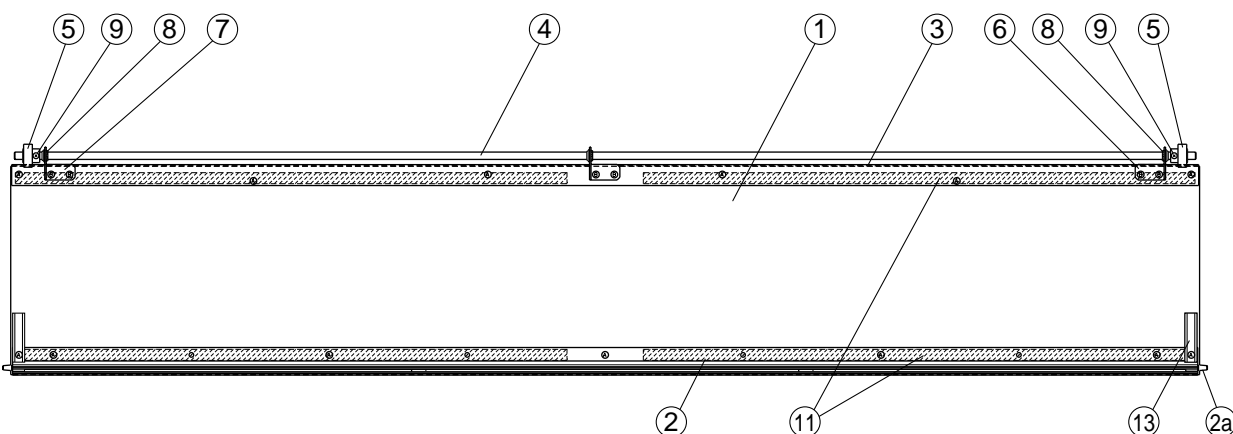
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	PANEL ASSEMBLY		CLP930		
	--	Panel Assembly		(V497700)		
1	V4977800	Control Panel				
2	V5215100	Panel				
3	V5283600	Panel				
4	--	Holder Assembly		(V495750)	5	
5	V5111200	Slide Knob	CL	MASTER VOLUME		02
6	V5182000	Button	A	DEMO,TRANSPOSE,FUNCTION, METRONOME,TEMPO +/-		02
7	V5182100	Button	B	-/NO,+/YES,PRESET SONG, TRACK 1,TRACK 2, START/STOP,REC		02
8	V5182400	Button	E	GRAND PIANO,E.PIANO 1, E.PIANO 2,HARPSICHORD, VIBRAPHONE,CHURCH ORGAN, STRINGS,CHOIR		04
9	V5182500	Button	F	REVERB,EFFECT,TOUCH		01
10	VU638700	Felt	MK			05
13	V5123600	Circuit Board	MV			
14	V5123400	Circuit Board	PNL			
15	V5123500	Circuit Board	PNR			
16	--	Connector Assembly	VOL	(V222620)		
17	--	Connector Assembly	PN-LF	(V552770)		
19	EP600250	Bind Head Tapping Screw-B	3.0X8 MFZN2Y		27	01
20	EP030230	Bind Head Tapping Screw-1	3.5X10 MFZN2Y		6	01
21	EP030340	Bind Head Tapping Screw-1	3.5X12 MFZN2BL		8	01
24	--	Shader A		(V534440)	2	
25	--	Shader B		(V534450)		
28	VP834600	Adhesive Tape	12X50			02
29	CB817510	Cord Binder	S-14B			03
30	--	PN Angle		(V588250)		
31	--	Dustproof Cloth	54X10X0.25	(V591130)		

*: New Parts

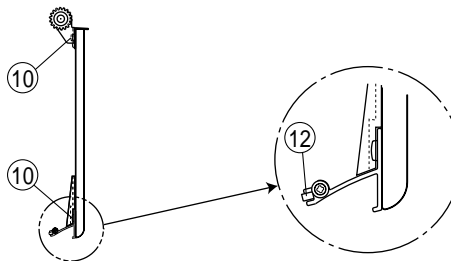
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KEY COVER ASSEMBLY

● Bottom view



● Side view



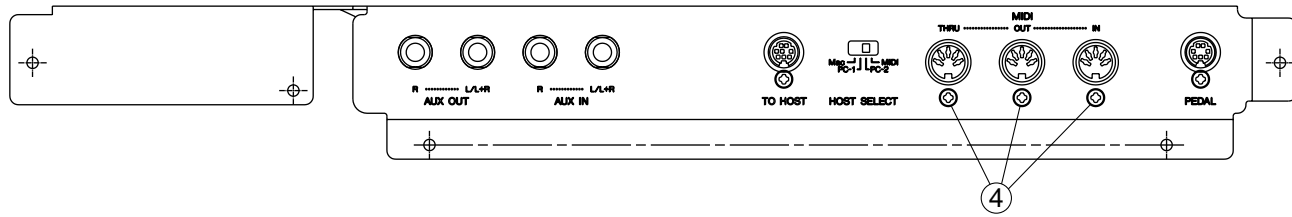
REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
		KEY COVER ASSEMBLY	CLP930		
	--	Key Cover Assembly	(YM)		
	--	Key Cover Assembly	(YC)	(V495710)	21
1	--	Slide Cover		(V538510)	
1	--	Slide Cover	(YCJ)	(V530620)	
2	V4961900	Sash F Assembly		(V538520)	10
2a	V4964400	Guide Pin			2
3	--	Sash R		(V496180)	
4	--	Rod		(V496240)	
5	VT190400	Gear			2 03
6	VV285600	Holder, Rod	LEFT		03
7	VV285700	Holder, Rod	RIGHT		2 03
8	VS368500	Bushing			3 03
9	EG330060	Bind Head Screw	3.0X10 MFZN2Y		2 01
10	VN920900	Bind Head Tapping Screw-1	3.5X8 MFZN2BL		17 01
11	--	Adhesive Tape	#500600X12	(VO02370)	4
12	VU457600	Cushion	421X2.5X4		3 03
13	V5902900	Block			2 02
14	EP030230	Bind Head Tapping Screw-1	3.5X10 MFZN2Y		2 01

*: New Parts

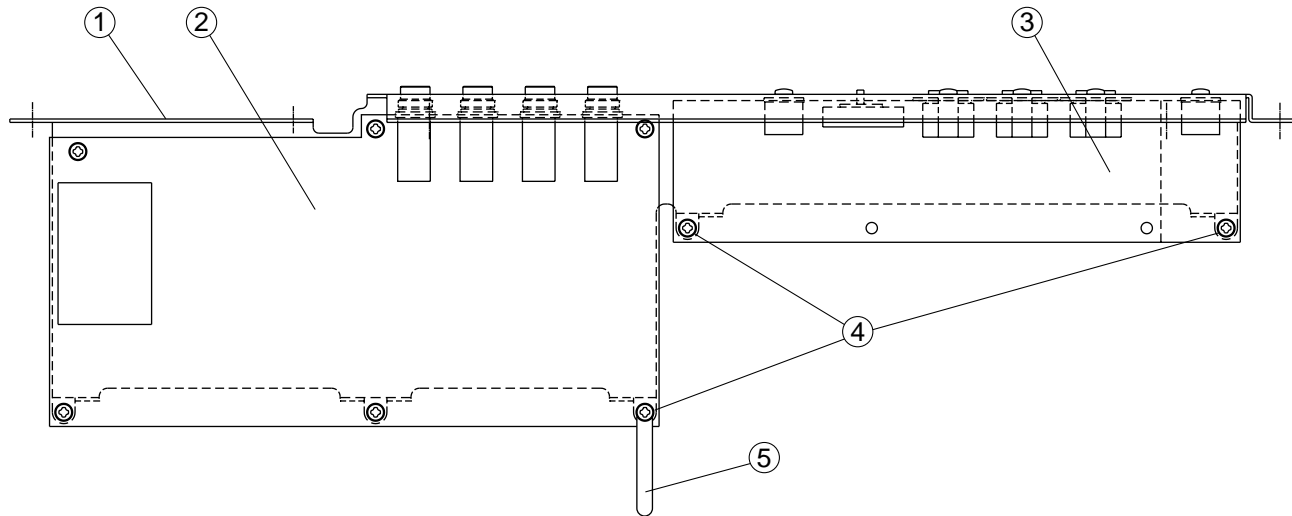
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JACK UNIT

● Side view



● Bottom view



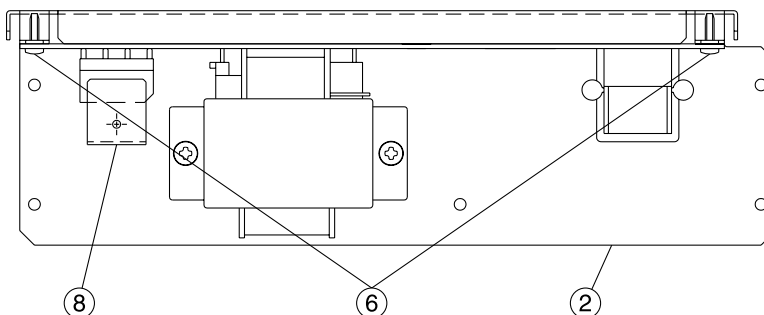
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		JACK UNIT		CLP930		
	--	Jack Unit		(V568020)		
1	--	Plate		(V497970)		
2	V5656900	Circuit Board	A-JACK			
3	V4938400	Circuit Board	D-JACK			
4	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		13	01
5	CB817510	Cord Binder	S-14B			03

*: New Parts

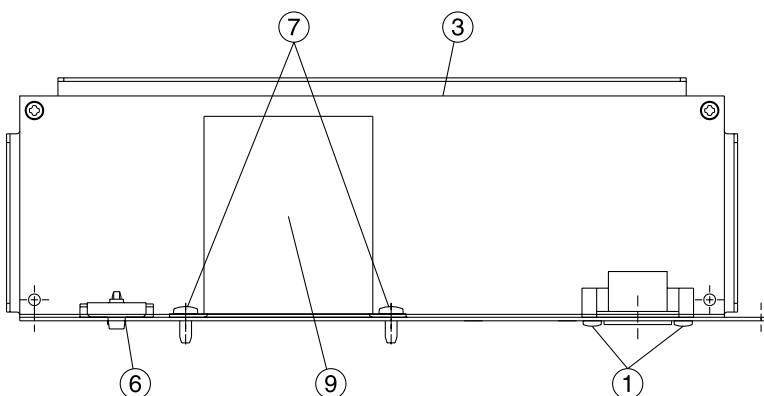
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POWER SUPPLY UNIT

● Top view



● Front view



REF. NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		POWER SUPPLY UNIT		CLP930		
	V0010200	Power Supply Unit		J		
	V0010300	Power Supply Unit		U	14	
	V0010400	Power Supply Unit		B, E, G, R	14	
	V0010500	Power Supply Unit		N	22	
1	EP600140	Bind Head Tapping Screw-B	3.0X10 MFZN2BL		2	01
2	VZ958800	Plate, AC Inlet		J, U, B, E, G, R		07
2	VZ958900	Panel, AC Inlet		N		08
3	V0010700	Circuit Board	PS	J		11
3	V0010800	Circuit Board	PS	U		11
3	V0011000	Circuit Board	PS	B, E, G, R		11
3	V0011100	Circuit Board	PS	N		12
4	EG330320	Bind Head Screw	3.0X12 MFZN2BL	N	2	01
5	VA211900	Hexagonal Nut	3.0 MFZN2Y	N	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	JUL/CSA A	J, U		09
9	XU446A00	Power Transformer	IEC65 E	B, E, G, R		09
9	XU447A00	Power Transformer	N IEC65 E	N		09



∴ New Parts

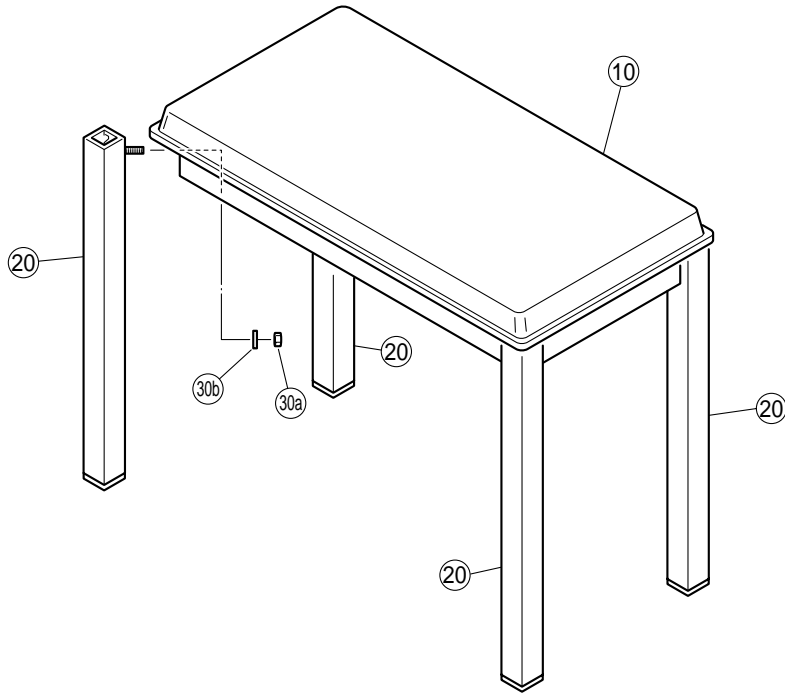
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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	VU431800	KEYBOARD ASSEMBLY		CLP930		
10	--	Keyboard Assembly	A88 K6			55
		MK Frame		(VU42210)		
20	VU101000	White Key	C		7	05
30	VU101100	White Key	D		7	05
40	VU101200	White Key	E		7	05
50	VU101300	White Key	F		7	05
60	VU101400	White Key	G		7	05
70	VU101500	White Key	A		7	05
80	VU101600	White Key	B		8	05
90	VU101700	White Key	A'			05
100	VU101800	White Key	C'			05
110	VU102100	Black Key	BL		36	05
120	VU102200	Hammer, White Key		A1-F1	13	06
130	VU102300	Hammer, White Key		G1-E3	13	06
140	VU102400	Hammer, White Key		F3-D5	13	06
150	VU102500	Hammer, White Key		E5-C7	13	06
160	VU102600	Hammer, Black Key		A#1-F#1	9	06
170	VU102700	Hammer, Black Key		G#1-D#3	9	06
180	VU102800	Hammer, Black Key		F#3-C#5	9	06
190	VU102900	Hammer, Black Key		D#5-A#6	9	06
200	VU342100	Stopper				09
210	VU342200	Stopper				09
220	VY693500	Rubber Contact	GH A88 2M			11
230	VU342300	Circuit Board	AEXL88 L			12
240	VU342400	Circuit Board	AEXL88 H			13
250	VU266500	Insulation Spacer	AEX88			06
260	VT413400	Bind Head Tapping Screw-P	3.0X10 MFZN2			17
270	VZ417900	Spring R	GH WH/BL	}	88	03
270	V2798500	Spring R	GH WH/BL		88	
280	VU237500	Rubber		}	88	03
280	V2211300	Rubber 2			88	03
300	VU341800	Connector Assembly	9P BLOCK			06
310	VU341900	Connector Assembly	12P NOTE			07
330	VV032300	Protect Wire	12			02
340	VV467900	Stopper Support A	35.5 20 +		7	03
350	VV468100	Stopper Support B	24 20 -		12	03

*: New Parts

RANK: Japan only

■ BENCH



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	BENCH		CLP930		
		Bench	BC-XX	J, U, N (V553140)		
10	V5532900	Bench Board Assembly		J, U, N		
10a	VT655900	Wrench		J, U, N		05
20	V5533200	Leg		J, U, N	4	
30	VS530500	Screw Set		J, U, N		03
30a	03761250	Hexagonal Nut	#1 10.0X1.25 MFZN2	J, U, N	4	01
30b	03765820	Spring Washer	#2 10.0 MFZN2Y	J, U, N	4	01

*: New Parts

RANK: Japan only

ELECTRICAL PARTS

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
	VU342400	ELECTRICAL PARTS	CLP-930		
	VU342300	Circuit Board	AEXL88 H (XR776C0)		13
	VU342300	Circuit Board	AEXL88 L (XR775C0)		12
	V5656900	Circuit Board	A-JACK (XW981B0)		
	V4938600	Circuit Board	DM (XW984C0)		
	V4938400	Circuit Board	D-JACK (XW982C0)		
	V5415700	Circuit Board	HP (XU684A0)(XV858A0)		
	V5123600	Circuit Board	MV (XW986C0)		
	V5123400	Circuit Board	PNL (XW986C0)		
	V5123500	Circuit Board	PNR (XW986C0)		
	VN637600	Circuit Board	PL(YCJ) (XL151B0)		03
	VU659100	Circuit Board	PL(YMMA) (XR898A0)		03
	V0010700	Circuit Board	PS J (XU372D0)		11
	V0010800	Circuit Board	PS U (XU372D0)		11
	V0011000	Circuit Board	PS B, E, G, R (XU372D0)		11
	V0011100	Circuit Board	PS N (XU372D0)		12
	V2337300	Circuit Board	PEDAL (XR780B0)		07
	VU342400	Circuit Board	AEXL88 H (XR776C0)		13
	--	Dust Proof Cloth	(VU45980)		
CN1	VB390500	Connector Base Post	PH- 9P TE		03
CN2	VB390800	Connector Base Post	PH-12P TE		01
D1	VB941200	Diode	1SS133,1SS176		01
-108	VB941200	Diode	1SS133,1SS176		01
	VU342300	Circuit Board	AEXL88 L (XR775C0)		12
	--	Dust Proof Cloth	(VU45960)		
CL1	VI653000	Ceramic Resonator	CST4.00MGW040		01
CN1	VB390400	Connector Base Post	PH- 8P TE		01
CN2	VB390500	Connector Base Post	PH- 9P TE		03
CN3	VB390800	Connector Base Post	PH-12P TE		01
D1	VB941200	Diode	1SS133,1SS176		01
D2	VB941200	Diode	1SS133,1SS176		01
D5	VB941200	Diode	1SS133,1SS176		01
-72	VB941200	Diode	1SS133,1SS176		01
J1	VD041700	Jumper Wire	0.55		
J2	VD041700	Jumper Wire	0.55		
KSN2	XR632A00	IC	YMZ702-D	KSN2	09
RA1	VU483500	Resistor Array	RGLD12X103J		01
	FG644100	Ceramic Capacitor-F	0.01 50V Z	C:1-3	01
	VF760000	Electrolytic Cap.-KS	100.00 10.0V	C:5	01
	HF755100	Carbon Resistor	100.0 1/4 J	R:2,3	01
	HF756100	Carbon Resistor	1.0K 1/4 J	R:4	01
	HF759100	Carbon Resistor	1.0M 1/4 J	R:1	01
	V5656900	Circuit Board	A-JACK (XW981B0)		
	VE683000	Bind Head Tapping Screw-B	3.0X12 MFZN2Y		01
	VD041700	Jumper Wire	0.55		
CN1	LB918050	Base Post Connector	XH 5P TE		01
CN2	VB390700	Connector Base Post	PH-11P TE		01
CN3	LB932040	Base Post Connector	VH- 4P TE		01
CN4	LB918070	Base Post Connector	XH 7P TE		01
CN5	VB390400	Connector Base Post	PH- 8P TE		01
D1	VV925900	Diode	RLS-73 TE-11		01
D2	VV925900	Diode	RLS-73 TE-11		01
HS	--	Heat Sink	(V506910)		
IC1	XU387A00	IC	UPC24M12AHF	REGULATOR +12V	03
IC2	XR925A00	IC	SI-8401L	REGULATOR +5V	05
IC3	XU131A00	IC	TA8233H	POWER AMP 30WX2 BTL	06
IC4	XT773A00	IC	M5227FP	EQUALIZER	03
IC5	XT773A00	IC	M5227FP	EQUALIZER	03
IC6	XF291A00	IC	UPC4570G2	OP AMP	03
IC7	XF291A00	IC	UPC4570G2	OP AMP	03
JK1	VS115400	Phone Jack	LGR4609-7000	AUX IN L(L+R)	01
JK2	VS115400	Phone Jack	LGR4609-7000	AUX IN R	01
JK3	VS115400	Phone Jack	LGR4609-7000	AUX OUT L(L+R)	01
JK4	VS115400	Phone Jack	LGR4609-7000	AUX OUT R	01
L2	VQ724900	Chip Inductance	BK2125HM601-T		01
L4	VQ724900	Chip Inductance	BK2125HM601-T		01
L6	VQ724900	Chip Inductance	BK2125HM601-T		01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
L8	VQ724900	Chip Inductance	BK2125HM601-T		01
MFA	--	Holder A		(V518410)	
RY1	KC001900	Relay	DC RY12W		07
RY2	VK881200	Relay	DC G5Z-2A-YA		04
TR1	VV556400	Transistor	2SC2412K Q,R,S		01
	UA353220	Mylar Capacitor	2200P 50V J	C:24,29	01
	UA353470	Mylar Capacitor	4700P 50V J	C:36,41	01
	UA353820	Mylar Capacitor	8200P 50V J	C:23,28	
	UA354150	Mylar Capacitor	0.015 50V J	C:35,40	
	UA354220	Mylar Capacitor	0.022 50V J	C:34,39	
	UA354270	Mylar Capacitor	0.027 50V J	C:22,27	01
	UA354330	Mylar Capacitor	0.033 50V J	C:33,38	01
	UA354680	Mylar Capacitor	0.068 50V J	C:21,26,32,37	01
	VR168700	Monolithic Mylar Capacitor	ECQ-V1H224JL3	C:20,25	01
	US035100	Ceramic Capacitor-B (Chip)	0.1 16V K	C:66-73	01
	US062100	Ceramic Capacitor-SL (Chip)	100P 50V J	C:11,12,30,31,78,79	01
	US062470	Ceramic Capacitor-SL (Chip)	470P 50V J	C:49,50	01
	US063100	Ceramic Capacitor-B (Chip)	1000P 50V K	C:2,4,55,57,60,61	01
	US064100	Ceramic Capacitor-B (Chip)	0.01 50V K	C:9,10,15,16,45,47,76,77	01
	US135100	Ceramic Capacitor-F (Chip)	0.1 16V Z	C:74,75	01
	UR828470	Electrolytic Cap.	470.00 10.0V	C:18,19,64	01
	UR837220	Electrolytic Cap.	22.00 16.0V	C:62,63	01
	UR837470	Electrolytic Cap.	47.00 16.0V	C:46,48	01
	UR846470	Electrolytic Cap.	4.7 25.0V	C:42,43	01
	UR847470	Electrolytic Cap.	47.00 25.0V	C:65	01
	UR848100	Electrolytic Cap.	100.00 25.0V	C:7,17	01
	UR848220	Electrolytic Cap.	220.00 25.0V	C:8	01
	UR866100	Electrolytic Cap.	1.00 50.0V	C:5,6,51,52	01
	UR866220	Electrolytic Cap.	2.2 50.0V	C:58,59	01
	UN866100	Electrolytic Cap.-BP	1.00 50.0V	C:13,14	01
	HF453220	Carbon Resistor	2.2 1/4 J	R:46-49	01
	HF455560	Carbon Resistor	560.0 1/4 J	R:64,65	01
	HF456150	Carbon Resistor	1.5K 1/4 J	R:13,15,18,20	01
	HF456270	Carbon Resistor	2.7K 1/4 J	R:16,21	01
	HF456390	Carbon Resistor	3.9K 1/4 J	R:14,19	01
	HF456470	Carbon Resistor	4.7K 1/4 J	R:27,32	01
	HF457180	Carbon Resistor	18.0K 1/4 J	R:17,22-26,28-31	01
	RD355560	Carbon Resistor (chip)	560 63M J	R:43,44	01
	RD355680	Carbon Resistor (chip)	680 63M J	R:35,36	01
	RD356100	Carbon Resistor (chip)	1.0K 63M J	R:41,42	01
	RD356330	Carbon Resistor (chip)	3.3K 63M J	R:33,34,53	01
	RD356470	Carbon Resistor (chip)	4.7K 63M J	R:11,12,50,66,67	01
	RD356560	Carbon Resistor (chip)	5.6K 63M J	R:39,40,51,52	01
	RD356820	Carbon Resistor (chip)	8.2K 63M J	R:7,8	01
	RD357100	Carbon Resistor (chip)	10K 63M J	R:1,2,45	01
	RD357330	Carbon Resistor (chip)	33K 63M J	R:5,6,9,10,54	01
	RD357390	Carbon Resistor (chip)	39K 63M J	R:3,4	01
	V4938600	Circuit Board	DM	(XW984C0)	
CN1	VB390500	Connector Base Post	PH- 9P TE		03
CN2	VB390800	Connector Base Post	PH-12P TE		01
CN3	VB390100	Connector Base Post	PH- 5P TE		01
CN4	VB390600	Connector Base Post	PH-10P TE		01
CN5	VB390400	Connector Base Post	PH- 8P TE		01
CN6	VB390700	Connector Base Post	PH-11P TE		01
D1	VV925900	Diode	RLS-73 TE-11		01
-3	VV925900	Diode	RLS-73 TE-11		01
IC1	XU947C00	IC	HG73C205AFD	SWX00B	09
IC2	XY212100	IC		MASK ROM	
IC3	XV411A00	IC	W24258S-70LE-EL10	} SRAM 256K	07
IC3	XW433A00	IC	CY62256LL-70SNCT	}	05
IC4	XV411A00	IC	W24258S-70LE-EL10	} SRAM 256K	07
IC4	XW433A00	IC	CY62256LL-70SNCT	}	05
IC5	XU947C00	IC	HG73C205AFD	SWX00B	09
IC6	XU462A00	IC	MSM514260C-60TS-K	DRAM 4M	08
IC7	XY213100	IC	MX23L6410MC	ROM 64M WAVE1	11
IC8	XY214100	IC	MX23L3210MC	ROM 32M WAVE2	09
IC9	XP867A00	IC	UPD63200GS-E1	DAC	07
IC10	XY119A00	IC	MM74HCT00SJX	} NAND	01
IC10	XY120A00	IC	TC74HCT00AF(EL)	}	01

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
IC11	XY353A00	IC	MM74HC138SJX	} DE-MULTIPLEXER /DECODER		02
IC11	XW762A00	IC	TC74HC138AFEL			
IC11	XW793A00	IC	SN74HC138NSR	} NAND		
IC12	XW792A00	IC	SN74HC132NSR			
IC12	XY352A00	IC	MM74HC132SJX			
IC13	XS516A00	IC	UPC2933T-E1	REGULATOR +3.3V		03
IC14	XJ598A00	IC	NJM78L05UA	REGULATOR +5V		02
TA1	VT943400	Transistor Array	TD62785F(TP1)			04
TR1	VV556400	Transistor	2SC2412K Q,R,S			01
TR2	VJ927200	Transistor	2SA1162 O,Y			01
TR3	V5005800	Digital Transistor	FMG11A T148			01
-6	V5005800	Digital Transistor	FMG11A T148			
X1	VZ703600	Quartz Crystal Unit	8.4672M SMD-49			03
Z1	VU172000	Zener Diode	UDZS5.6BTE-17 5.6V			01
	US061220	Ceramic Capacitor-CH (Chip)	22P 50V J	C:48,51		01
	US061270	Ceramic Capacitor-CH (Chip)	27P 50V J	C:50		01
	US062100	Ceramic Capacitor-SL (Chip)	100P 50V J	C:2-7,9-21,23,74,76,78,79,81-84		01
	US064100	Ceramic Capacitor-B (Chip)	0.01 50V K	C:1,8,22,24,25,27-29,32,34, 36-42,44,46,52-54,60-63,67, 68,71,72,80		01
	US135100	Ceramic Capacitor-F (Chip)	0.1 16V Z	C:47,49		01
	VI055000	Super Capacitor	0.1 F 5.5V FVD0H	C:26		04
	UF017470	Electrolytic Cap. (chip)	47 6.3V	C:66		01
	UF037100	Electrolytic Cap. (chip)	10 16V	C:30,31,33,35,43,45,75		01
	UF037470	Electrolytic Cap. (chip)	47 16V	C:55-57,73,77		01
	UF246470	Electrolytic Cap.-BP (chip)	4.7 25V	C:58,59		01
	RD350000	Carbon Resistor (chip)	0 63M J	R:116		01
	RD354470	Carbon Resistor (chip)	47 63M J	R:3,4,13-55,58-71,73-76,79,81, 87-96,101-104,107,108,111		01
	RD355100	Carbon Resistor (chip)	100 63M J	R:5-11,99,124-127		01
	RD356100	Carbon Resistor (chip)	1.0K 63M J	R:1,2,106,109,110,129		01
	RD356150	Carbon Resistor (chip)	1.5K 63M J	R:105		01
	RD356270	Carbon Resistor (chip)	2.7K 63M J	R:131		01
	RD356820	Carbon Resistor (chip)	8.2K 63M J	R:130		01
	RD357100	Carbon Resistor (chip)	10K 63M J	R:77,78,80,82,83,85,86,112,114, 115,122,128		01
	RD357220	Carbon Resistor (chip)	22K 63M J	R:121,123		01
	RD357470	Carbon Resistor (chip)	47K 63M J	R:12,56,57,72,84,97,98,100,132		01
	RD358470	Carbon Resistor (chip)	470K 63M J	R:117,119,120		01
	V4938400	Circuit Board	D-JACK	(XW982C0)		
CN1	VB390600	Connector Base Post	PH-10P TE			01
CN2	VB390100	Connector Base Post	PH-5P TE			01
D1	VV925900	Diode	RLS-73 TE-11			01
-4	VV925900	Diode	RLS-73 TE-11			01
IC1	XI348A00	IC	SC7SU04FEL	INVERTER		01
IC2	XU073A00	IC	SN75C1168NSR	LINE TRANSCEIVER		05
IC3	VD473200	Photo Coupler	6N137			05
JK1	VT202500	DIN Connector	5P YKF51-50	MIDI IN		01
JK2	VT202500	DIN Connector	5P YKF51-50	MIDI OUT		01
JK3	VT202500	DIN Connector	5P YKF51-50	MIDI THRU		01
JK4	VV269500	DIN Connector	DIN 8P MD-S813	TO HOST		03
JK5	V4874800	DIN Connector	DIN 6P MD-S613	PEDAL		02
L3	VQ724900	Chip Inductance	BK2125HM601-T			01
L4	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
L5	VQ724900	Chip Inductance	BK2125HM601-T			01
-19	VQ724900	Chip Inductance	BK2125HM601-T			01
SW1	VQ665200	Slide Switch	SSSF144-S06N-0	HOST SELECT		03
TR1	VV556400	Transistor	2SC2412K Q,R,S			01
-4	VV556400	Transistor	2SC2412K Q,R,S			01
	US064100	Ceramic Capacitor-B (Chip)	0.01 50V K	C:2,8,10,11,13		01
	US135100	Ceramic Capacitor-F (Chip)	0.1 16V Z	C:9		01
	UR837100	Electrolytic Cap.	10.00 16.0V	C:5,12		01
	UN817470	Electrolytic Cap.-BP	47.00 6.3V	C:6		01
	RD350000	Carbon Resistor (chip)	0 63M J	R:6		01
	RD355100	Carbon Resistor (chip)	100 63M J	R:7,8		01
	RD355220	Carbon Resistor (chip)	220 63M J	R:14,15,24-28		01
	RD356100	Carbon Resistor (chip)	1.0K 63M J	R:9,12		01
	RD356150	Carbon Resistor (chip)	1.5K 63M J	R:20,23		01
	RD357100	Carbon Resistor (chip)	10K 63M J	R:2-5,10,11,13,16,19,21,29		01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	RD357220	Carbon Resistor (chip)	22K 63M J	R:17,18,22		01
	V5415700	Circuit Board	HP	(XU684A0)(XV858A0)		01
	--	Earth Wire		(VT89070)		01
CN1	LB919070	Base Post Connector	XH 7P SE			01
CN2	VB858100	Connector Base Post	PH- 2P SE			01
FL1	VB971100	Coil	FL5R200QN			01
FL2	VB971100	Coil	FL5R200QN			01
FL3	GE300670	Ferrite Bead	BL02RN2-R62T4	}		02
FL3	VB871100	Ferrite Bead	BL02RN2-R62			01
FL4	VB971100	Coil	FL5R200QN			01
FL5	VB971100	Coil	FL5R200QN			01
FL6	GE300670	Ferrite Bead	BL02RN2-R62T4	}		02
FL6	VB871100	Ferrite Bead	BL02RN2-R62			01
HP1	LB101870	Phone Jack	YKB21-5006	PHONES		03
HP2	LB101870	Phone Jack	YKB21-5006	PHONES		03
	FG413100	Ceramic Capacitor-B	1000P 50V K	C:1-5		01
	UN838100	Electrolytic Cap.-BP	100.00 16.0V	C:6,7		01
	HF455390	Carbon Resistor	390.0 1/4 J	R:5,6		01
	VC731500	Metal Oxide Film Resistor	120.0 1W J	R:1-4		01
	V5123600	Circuit Board	MV	(XW986C0)		01
	V5123400	Circuit Board	PNL	(XW986C0)		01
	V5123500	Circuit Board	PNR	(XW986C0)		01
	VD041700	Jumper Wire	0.55			01
CN101	VB858700	Connector Base Post	PH- 8P SE			01
CN201	VB858800	Connector Base Post	PH- 9P SE			01
CN202	VC166500	Connector Base Post	PH-12P SE			01
CN301	VB858800	Connector Base Post	PH- 9P SE			01
CN302	VC166500	Connector Base Post	PH-12P SE			01
D102	VB941200	Diode	1SS133,1SS176	}		01
D102	VD631600	Diode	1SS133,176,HSS104			01
D103	VB941200	Diode	1SS133,1SS176	}		01
D103	VD631600	Diode	1SS133,176,HSS104			01
D105	VB941200	Diode	1SS133,1SS176	}		01
D105	VD631600	Diode	1SS133,176,HSS104			01
D202	VB941200	Diode	1SS133,1SS176	}		01
D202	VD631600	Diode	1SS133,176,HSS104			01
D203	VB941200	Diode	1SS133,1SS176	}		01
D203	VD631600	Diode	1SS133,176,HSS104			01
D205	VB941200	Diode	1SS133,1SS176	}		01
D205	VD631600	Diode	1SS133,176,HSS104			01
D302	VB941200	Diode	1SS133,1SS176	}		01
-305	VB941200	Diode	1SS133,1SS176			01
D302	VD631600	Diode	1SS133,176,HSS104	}		01
-305	VD631600	Diode	1SS133,176,HSS104			01
D402	VB941200	Diode	1SS133,1SS176	}		01
-405	VB941200	Diode	1SS133,1SS176			01
D402	VD631600	Diode	1SS133,176,HSS104	}		01
-405	VD631600	Diode	1SS133,176,HSS104			01
D502	VB941200	Diode	1SS133,1SS176	}		01
-506	VB941200	Diode	1SS133,1SS176			01
D502	VD631600	Diode	1SS133,176,HSS104	}		01
-506	VD631600	Diode	1SS133,176,HSS104			01
D602	VB941200	Diode	1SS133,1SS176	}		01
-606	VB941200	Diode	1SS133,1SS176			01
D602	VD631600	Diode	1SS133,176,HSS104	}		01
-606	VD631600	Diode	1SS133,176,HSS104			01
LD5	VQ323900	LED Display	SL-9351S	TEMPO/FUNCTION/SONG		05
LD101	VI813100	LED	SLZ-181B-09-T6 RE	PRESET SONG		01
LD102	VI813100	LED	SLZ-181B-09-T6 RE	CHORUS		01
LD103	VI813100	LED	SLZ-181B-09-T6 RE	ROOM		01
LD104	VI813100	LED	SLZ-181B-09-T6 RE	HALL 1		01
LD105	VI813100	LED	SLZ-181B-09-T6 RE	HALL 2		01
LD106	VI813100	LED	SLZ-181B-09-T6 RE	STAGE		01
LD108	VI813100	LED	SLZ-181B-09-T6 RE	VIBRAPHONE		01
LD201	VI813100	LED	SLZ-181B-09-T6 RE	FUNCTION		01
LD202	VI813100	LED	SLZ-181B-09-T6 RE	TRANSPOSE		01
LD203	VI813100	LED	SLZ-181B-09-T6 RE	HARD		01
LD204	VI813100	LED	SLZ-181B-09-T6 RE	PHASER		01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
LD205	V1813100	LED	SLZ-181B-09-T6 RE	TREMOLO		01
LD206	V1813100	LED	SLZ-181B-09-T6 RE	DELAY		01
LD208	V1813100	LED	SLZ-181B-09-T6 RE	CHURCH ORGAN		01
LD301	VG197600	LED	GL3ED8	TRACK 1		01
LD302	VG197600	LED	GL3ED8	TRACK 2		01
LD303	V1813100	LED	SLZ-181B-09-T6 RE	MIDIUM		01
LD304	V1813100	LED	SLZ-181B-09-T6 RE	SOFT		01
LD305	V1813100	LED	SLZ-181B-09-T6 RE	HARPSICHORD		01
LD306	V1813100	LED	SLZ-181B-09-T6 RE	GRAND PIANO		01
LD307	V1813100	LED	SLZ-181B-09-T6 RE	STRINGS		01
LD405	V1813100	LED	SLZ-181B-09-T6 RE	E.PIANO 2		01
LD406	V1813100	LED	SLZ-181B-09-T6 RE	E.PIANO 1		01
LD407	V1813100	LED	SLZ-181B-09-T6 RE	CHOIR		01
R801	VD041700	Jumper Wire	0.55			
R802	VD041700	Jumper Wire	0.55			
SW102	VQ371700	Tact Switch	SKHVBL042A H=7	DEMO		01
SW103	VQ371700	Tact Switch	SKHVBL042A H=7	TRANSPOSE		01
SW105	VQ371700	Tact Switch	SKHVBL042A H=7	VIBRAPHONE		01
SW202	VQ371700	Tact Switch	SKHVBL042A H=7	REVERB		01
SW203	VQ371700	Tact Switch	SKHVBL042A H=7	EFFECT		01
SW205	VQ371700	Tact Switch	SKHVBL042A H=7	CHURCH ORGAN		01
SW302	VQ371700	Tact Switch	SKHVBL042A H=7	TOUCH		01
SW303	VQ371700	Tact Switch	SKHVBL042A H=7	HARPSICHORD		01
SW304	VQ371700	Tact Switch	SKHVBL042A H=7	GRAND PIANO		01
SW305	VQ371700	Tact Switch	SKHVBL042A H=7	STRINGS		01
SW402	VQ371700	Tact Switch	SKHVBL042A H=7	METRONOME		01
SW403	VQ371700	Tact Switch	SKHVBL042A H=7	PIANO 2		01
SW404	VQ371700	Tact Switch	SKHVBL042A H=7	PIANO 1		01
SW405	VQ371700	Tact Switch	SKHVBL042A H=7	CHOIR		01
SW502	VQ371700	Tact Switch	SKHVBL042A H=7	FUNCTION		01
SW503	VQ371700	Tact Switch	SKHVBL042A H=7	TEMPO UP		01
SW504	VQ371700	Tact Switch	SKHVBL042A H=7	TEMPO DOWN		01
SW505	VQ371700	Tact Switch	SKHVBL042A H=7	PRESET SONG		01
SW506	VQ371700	Tact Switch	SKHVBL042A H=7	-/NO		01
SW602	VQ371700	Tact Switch	SKHVBL042A H=7	TRACK 2		01
SW603	VQ371700	Tact Switch	SKHVBL042A H=7	TRACK 1		01
SW604	VQ371700	Tact Switch	SKHVBL042A H=7	REC		01
SW605	VQ371700	Tact Switch	SKHVBL042A H=7	START/STOP		01
SW606	VQ371700	Tact Switch	SKHVBL042A H=7	+YES		01
VR1	V4007500	Slide Variable Resistor	1B10K RS30112A9A02	MASTER VOLUME		03
W1	--	Earth Wire		(VT89070)		01
	HF454470	Carbon Resistor	47.0 1/4 J	} R:101,102,201,202,301,302, 501,502,601,602,701,702		01
	HF754470	Carbon Resistor	47.0 1/4 J			01
CN1	VN637600	Circuit Board	PL(YCJ)	(XL151B0)		03
	VB858100	Connector Base Post	PH- 2P SE			01
LED1	VD180000	LED	SLZ-190B-03 RE	power		01
CN1	VU659100	Circuit Board	PL(YMMA)	(XR898A0)		03
	VB858100	Connector Base Post	PH- 2P SE			01
LED1	VD180000	LED	SLZ-190B-03 RE	power		01
	V0010700	Circuit Board	PS	J (XU372D0)		11
	V0010800	Circuit Board	PS	U (XU372D0)		11
	V0011000	Circuit Board	PS	B, E, G, R (XU372D0)		11
	V0011100	Circuit Board	PS	N (XU372D0)		12
	VT308100	AC Inlet	CCT9302-0101M	J, B, E, N, G, R		02
	VT308200	AC Inlet	CCT9302-0201	U		02
	LB201530	Fuse Holder	PC-PH1			01
	VD041700	Jumper Wire	0.55			
	VT139600	Voltage Selector	M1684-E	N		04
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		D3SBA20 4.0A 200V			03

*: New Parts

RANK: Japan only

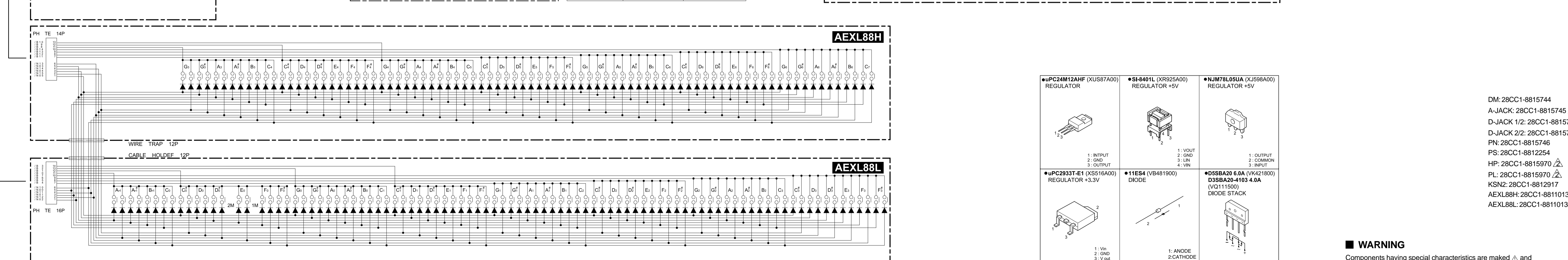
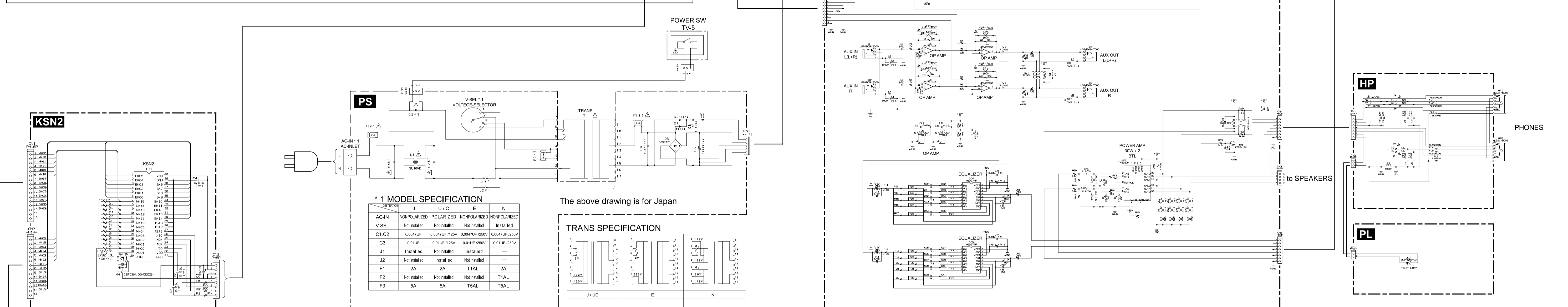
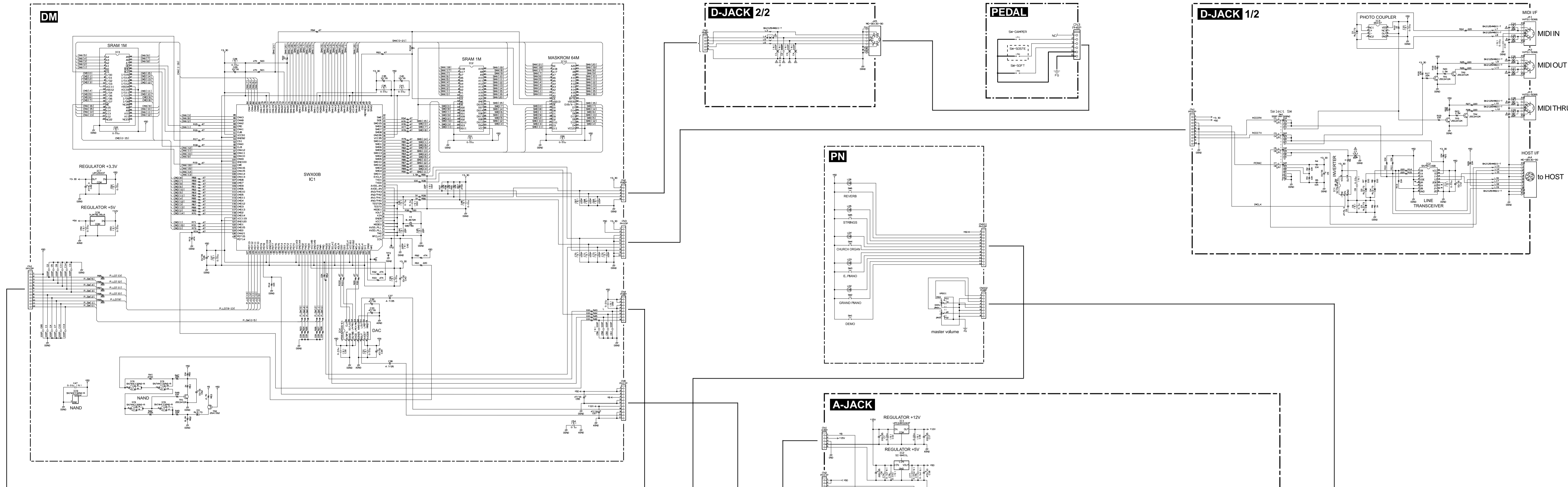
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
△	F1	KB003570	TL 2.00A JU	J, U, N		01
△	F1	KB003040	T 1.00A S	B, E, G, R		01
△	F2	KB003040	T 1.00A S	N		01
△	F3	KB003630	TL 5.00A JU	J, U		01
△	F3	KB003240	T 5.00A S			01
	J1	VD041700	Jumper Wire			
	J2	VD041700	Jumper Wire	U		
	L1	VF790900	Coil			03
		FI383470	Capacitor	} C:1,2		01
		VY675100	Capacitor			01
		VT575200	Capacitor	} C:3		01
		VY675000	Capacitor			01
		UA654470	Mylar Capacitor	C:4		01
		V2126200	Electrolytic Cap.	C:5		04
		UR866330	Electrolytic Cap.	} C:6		01
		UJ866330	Electrolytic Cap.			01
		HF456100	Carbon Resistor	} R:1		01
		HF756100	Carbon Resistor			01
		V2337300	Circuit Board		(XR780B0)	07
		VD041700	Jumper Wire			
		--	GND Wire		(VZ01760)	
	CN3	VB390200	Connector Base Post			01
		VT015700	AC Cord Set	J		05
		V2916900	AC Cord Set	J		05
		V3126200	AC Cord Set	J		
		VT015800	AC Cord Set	U		06
		V2917000	AC Cord Set	U		06
		V3126400	AC Cord Set	U		
		VT016000	AC Cord Set	B, G, R		08
		V3126500	AC Cord Set	B, G, R		
		VT015900	AC Cord Set	E, N		05
		V2917100	AC Cord Set	E, N		05
		V3126300	AC Cord Set	E, N		
		VK726100	Connector	N		03
		V5771000	Headphone	J		07
		V0010200	Power Supply Unit	J		
		V0010300	Power Supply Unit	U		14
		V0010400	Power Supply Unit	B, E, G, R		14
		V0010500	Power Supply Unit	N		22
		XU452A00	Speaker			10
		VC843500	Push Switch	POWER		03
		XU445A00	Power Transformer	J, U		09
		XU446A00	Power Transformer	B, E, G, R		09
		XU447A00	Power Transformer	N		09
		VY693500	Rubber Contact			11

*: New Parts

RANK: Japan only

OVERALL CIRCUIT DIAGRAM : CLP-920

CLP-920



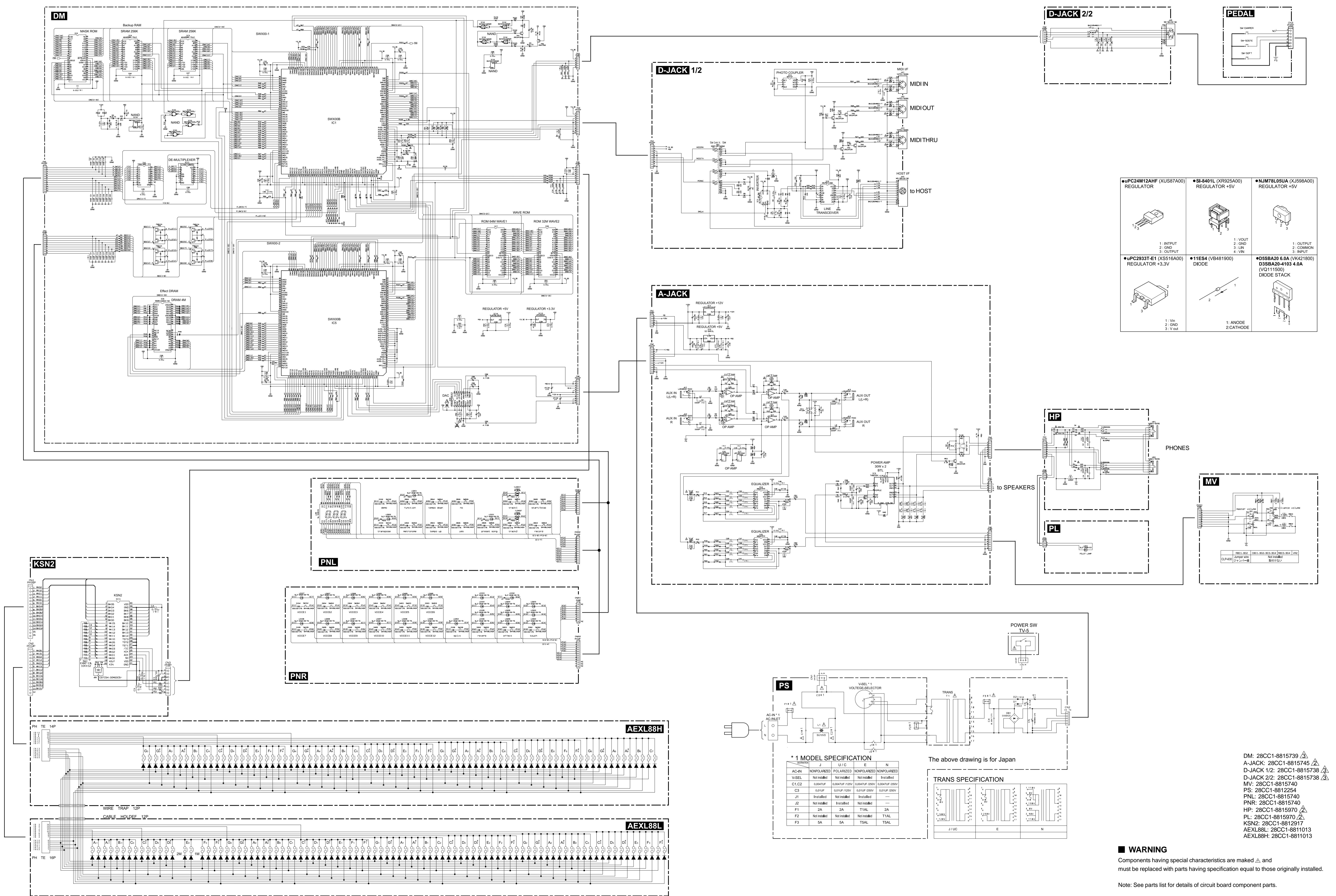
<p>uPC24M12AHF (XUS87A00) REGULATOR</p> <p>1: INPUT 2: GND 3: OUTPUT</p>	<p>SI-8401L (XR925A00) REGULATOR +5V</p> <p>1: VOLT 2: GND 3: LIN 4: VIN</p>	<p>NJM78L05UA (XJ598A00) REGULATOR +5V</p> <p>1: OUTPUT 2: COMMON 3: INPUT</p>
<p>uPC2933T-E1 (XSS16A00) REGULATOR +3.3V</p> <p>1: Vin 2: GND 3: Vout</p>	<p>11ES4 (V8481900) DIODE</p> <p>1: ANODE 2: CATHODE</p>	<p>D3SBA20 6.0A (VK421800) D3SBA20-4103 4.0A (VQ11500) DIODE STACK</p>

- DM: 28CC1-8815744
- A-JACK: 28CC1-8815745
- D-JACK 1/2: 28CC1-8815738
- D-JACK 2/2: 28CC1-8815738
- PN: 28CC1-8815746
- PS: 28CC1-8812254
- HP: 28CC1-8815970
- PL: 28CC1-8815970
- KSN2: 28CC1-8812917
- AEYL88H: 28CC1-8811013
- AEYL88L: 28CC1-8811013

WARNING
Components having special characteristics are marked Δ and must be replaced with parts having specification equal to those originally installed.
Note: See parts list for details of circuit board component parts.

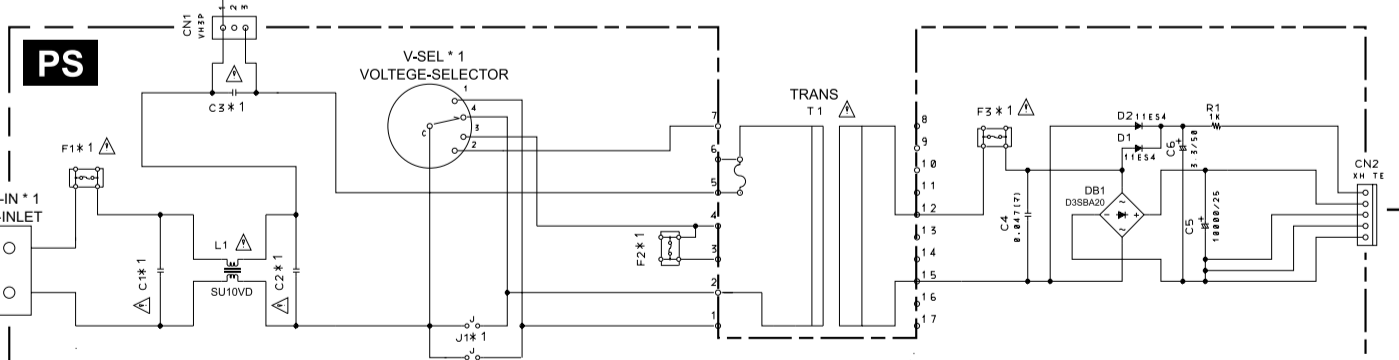
CLP-920

CLP-920



Component specifications for various regulators, diodes, and diode stacks:

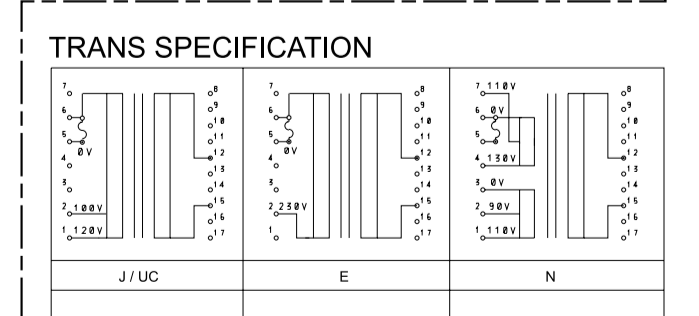
- **uPC24M12AHF (XUS87A00)** REGULATOR
- **SI8401L (XR925A00)** REGULATOR +5V
- **NUM78L05UA (XJ598A00)** REGULATOR +5V
- **uPC2933T-E1 (XS516A00)** REGULATOR +3.3V
- **11ES4 (VB481900)** DIODE
- **D5SBA20 6.0A (VK421800) D3SBA20-4103 4.0A (VQ11500)** DIODE STACK



* 1 MODEL SPECIFICATION

ITEM	J	U/C	E	N
AC-IN	NONPOLARIZED	POLARIZED	NONPOLARIZED	NONPOLARIZED
V-SEL	Not installed	Not installed	Not installed	Installed
CT, C2	0.22uF/50V	0.22uF/50V	0.22uF/50V	0.22uF/50V
C3	0.01uF	0.01uF/250V	0.01uF/250V	0.01uF/250V
J1	Installed	Not installed	Installed	---
F1	2A	2A	T1AL	2A
F2	Not installed	Not installed	Not installed	T1AL
F3	5A	5A	TSAL	TSAL

The above drawing is for Japan



- DM: 28CC1-8815739
- A-JACK: 28CC1-8815745
- D-JACK 1/2: 28CC1-8815738
- D-JACK 2/2: 28CC1-8815738
- MV: 28CC1-8815740
- PS: 28CC1-8812254
- PNL: 28CC1-8815740
- PNR: 28CC1-8815740
- HP: 28CC1-8815970
- PH: 28CC1-8815970
- KSN2: 28CC1-8812917
- AEXL88L: 28CC1-8811013
- AEXL88H: 28CC1-8811013

WARNING
 Components having special characteristics are marked Δ and must be replaced with parts having specification equal to those originally installed.
 Note: See parts list for details of circuit board component parts.