Clavinova

CLP-115

SERVICE MANUAL



CLP115

CLP115 has mostly the same specifications as CLP-110.
To check or repair CLP115, be sure to prepare the CLP-110 service manual CL 001675 with this manual.

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CL 001703

YAMAHA
HAMAMATSU, JAPAN

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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 WHAT SO EVER!

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

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

IMPORTANT NOTICE FOR THE UNITED KINGDOM

Connecting the Plug and Cord

IMPORTANT. The wires in this mains lead are coloured in accordance with the following code:

BLUE : NEUTRAL
BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured makings identifying the terminals in your plug proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Making sure that neither core is connected to the earth terminal of the three pin plug.

(2 wires)

• This applies only to products distributed by Yamaha-Kemble Music (U.K.) Ltd.

■ WARNING

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

■ MAIN DIFFERENCES WITH CLP-110

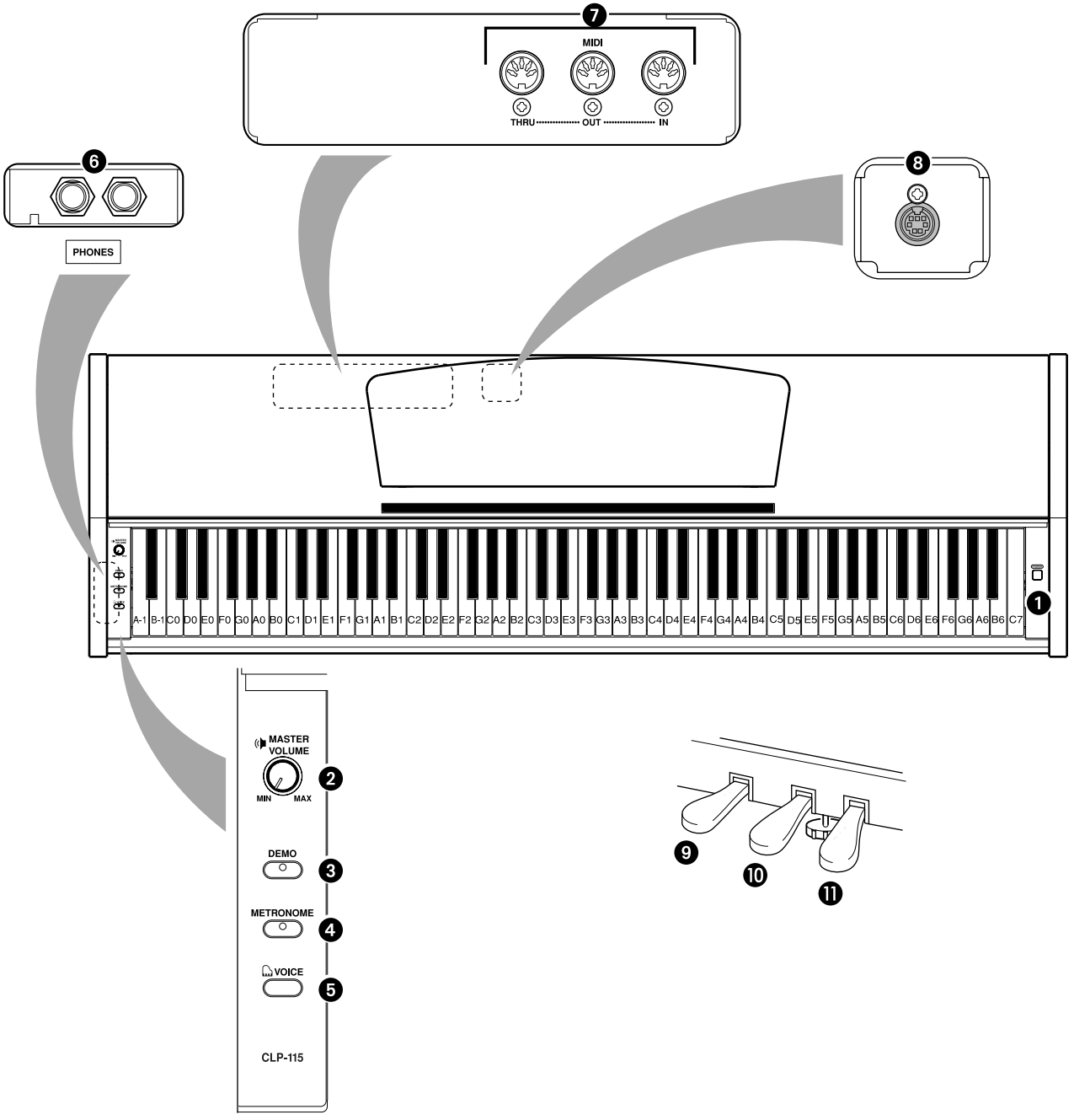
As for electrical parts, the PEDAL circuit board is added.

UNIT	CLP-110	CLP115	REMARKS
OVERALL ASSEMBLY	--	--	The ST board assembly is not installed. The pedal box assembly and the back board set are installed.
MAIN UNIT SUB ASSEMBLY	(V851320)	(WB29600)	The D-JACK assembly and the end block assembly (L) are changed. The PK connector is installed.
PEDAL BOX ASSEMBLY	Not in use	(V974350)	The unit is added.
PEDAL ASSEMBLY	Not in use	V0053700	The unit is added.
END BLOCK ASSEMBLY (L)	(V869920)	(WB29660)	The model name logo is changed.
D-JACK ASSEMBLY	(V890860)	(V975480)	The D-JACK circuit board and the D-JACK angle are changed.
D-JACK CIRCUIT BOARD	V8910300	V9456500	
PEDAL CIRCUIT BOARD	Not in use	V9456600	The unit is added.
PEDAL (SW) CIRCUIT BOARD	Not in use	V2337300	The unit is added.

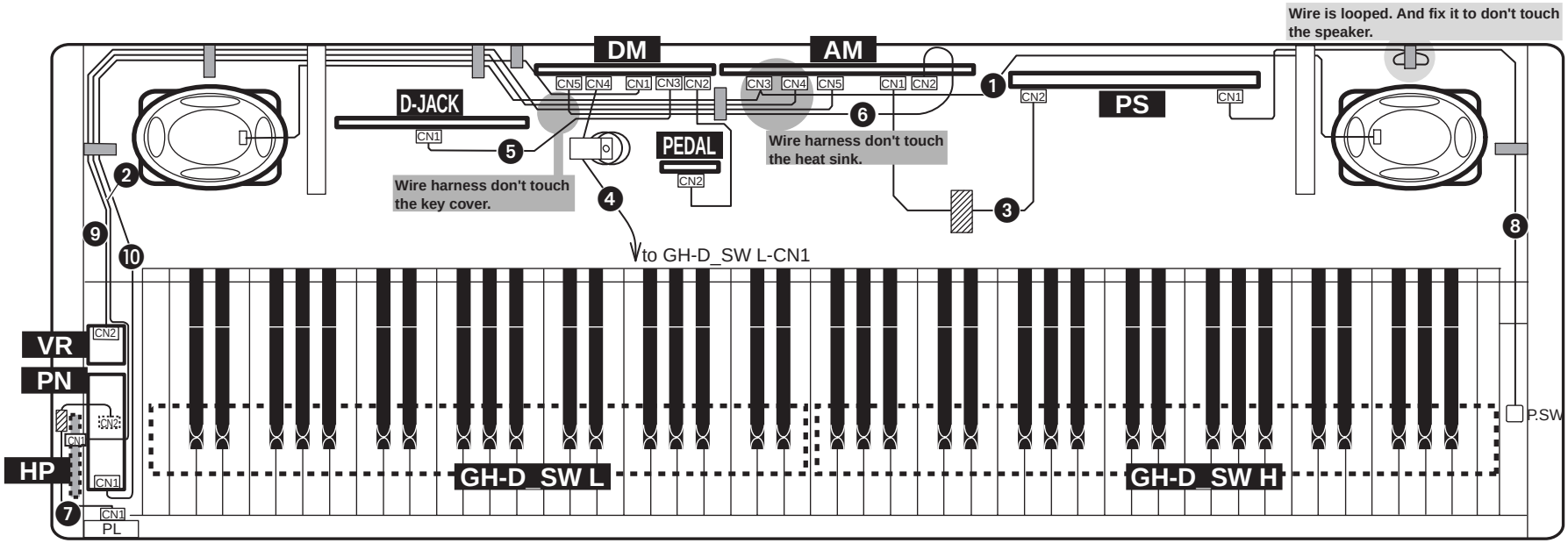
■ SPECIFICATIONS

Keyboard	88 keys (A-1 - C7)
Sound Source	AWM Stereo Sampling
Polyphony	32 Notes Max.
Voice Selection	10
Effect	Reverb
Volume	Master Volume
Controls	Dual, Metronome, Transpose
Pedal	Damper, Sostenuto, Soft
Demo Songs	10 voice Demo Songs, 50 preset Songs
Jacks/Connectors	MIDI (IN/OUT/THRU), PHONES x 2
Main Amplifiers	20W x 2
Speakers	Oval (12cm x 6cm) x 2
Dimensions (W x D x H)	1345mm x426mm x 815mm [52-15/16" x 16-3/4" x 32-1/16"]
(with music rest)	(1345mm x 426mm x 968mm) [53-15/16" x 16-3/4" x 38-1/8"]
Weight	41kg (90lbs., 6oz)
Power consumption	48W
Accessories	Owner's Manual, "50 greats for the Piano" (Music Book), Bench (included or optional depending on locale), Quick Operation Guide

■ PANEL LAYOUT



❶ [POWER] button
❷ [MASTER VOLUME] knob
❸ [DEMO] button
❹ [METRONOME] button
❺ [VOICE] button
❻ [PHONES] jack
❼ MIDI [IN] [OUT] [THRU] jack
❽ [PEDAL] jack
❾ Soft (Left) Pedal
❿ Sostenuto (Center) Pedal
⓫ Damper (Right) Pedal



: Code Binder

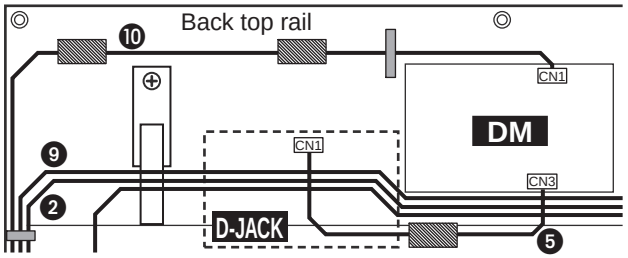
: Ferrite Core

: Filament Tape (12 x 50)

: Aluminum Tape (40 x 50)

: Connector Direction

NOTE.: ⑩ are fixed on the back top rail by alminum tape. (U/C model only)
⑤ are fixed on the KEY BED by alminum tape. (U/C model only)



NOTE.: ③,⑧ wire harness shall be around as the following drawing .(U/C model only)

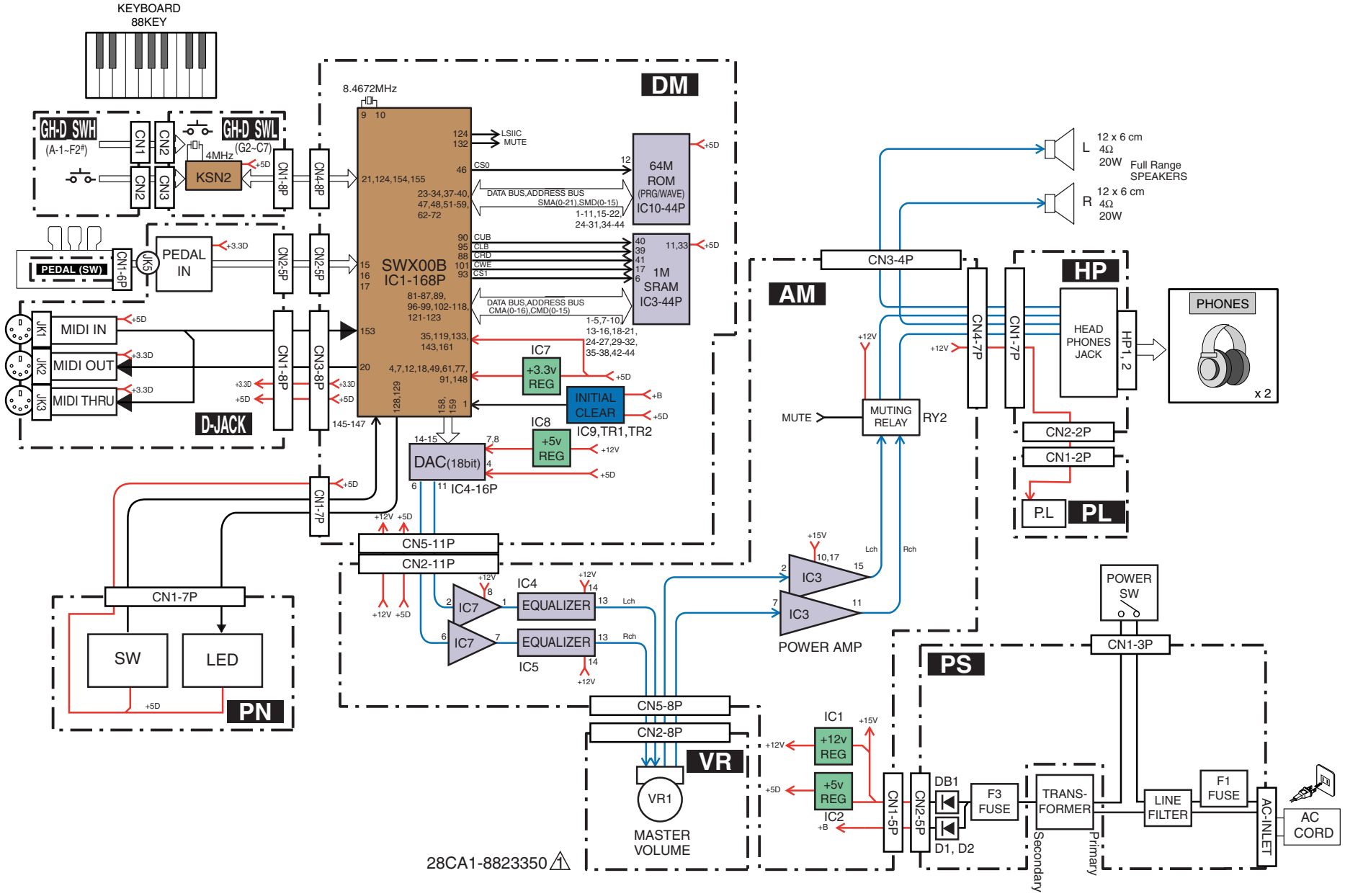


Rear view of PS unit

Location	Part Number	Part Name	Destination	
①	(V909110)	AMSP Wire Harness	AM-CN3	SP Lch WH/BL SP Rch RE/BL
②	(V908680)	AMHP Wire Harness	AM-CN4	HP-CN1
③	(V004510)	PSAM Wire Harness	PS-CN2	AM-CN1
④	V9401000	MK Wire Harness	DM-CN4	GH-D_SW L-CN1
⑤	(VJ98180)	KRD-KRD Wire Harness	DM-CN3	D-JACK-CN1
⑥	VK108600	KRD-KRD Wire Harness	AM-CN2	DM-CN5
⑦	VK099600	KRD-KRD Wire Harness	HP-CN2	PL-CN1
⑧	VS353700	PSW Wire Harness	POWER SW	PS-CN1
⑨	(V909180)	VOL Wire Harness	AM-CN5	VR-CN002
⑩	(V908660)	KRD-KRD Wire Harness	DM-CN1	PN-CN001
⑪	VK097800	KRD-KRD Wire Harness	DM-CN2	PEDAL-CN002

2NC-V974160-3/3⚠

■ BLOCK DIAGRAM



■ DISASSEMBLY PROCEDURE

* See the CLP-110 service manual to remove units that are not explained in the body below,

1. Circuit Boards and the Units in the Main Unit (Time required: about 7 min)

1-1 Remove the top board assembly. (See the CLP-110 service manual.)

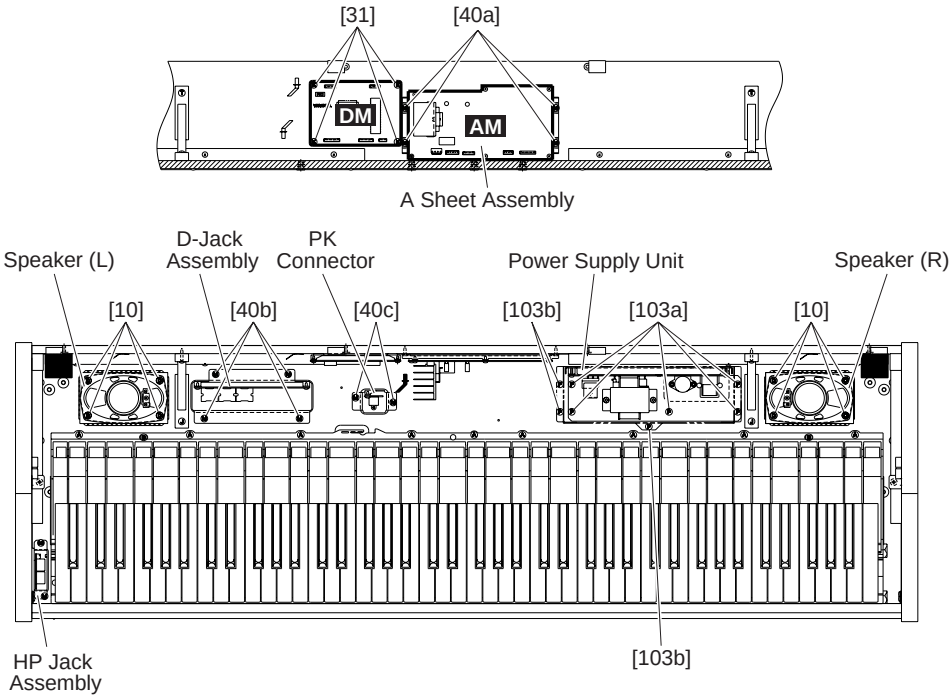
1-2 Remove the following screws to remove each circuit board or unit. (Fig.1)

Circuit Board or Unit	Screw	Quantity	Remarks
DM	31	4	
A Sheet Assembly	40a	4	
D Jack Assemgly	40b	4	
PK Connector	40c	2	
Power Supply Unit	103a	5	For all models
	103b	3	Only for U model
Speaker (L, R)	10	8	

* To remove the DM circuit board or AM sheet assembly, use a screw driver which is shorter than a clearance between the circuit board and the keyboard assembly.
When using a longer one by necessity, remove the keyboard assembly before removing these circuit boards. (See the CLP-110 service manual.)

* When connecting the speaker cables again, pay attention to polarity.

L ch: + (white), - (black)
R ch: + (red), - (black)



(Fig. 1)

[10]: Truss Head Tapping Screw-1 4.0X16 MFZN2Y (03747340)
[31]: Bind Head Tapping Screw-B 3.0X6 MFZN2Y (EP600130)
[40]: Bind Head Tapping Screw-1 3.5X12 MFZN2Y (EP030240)
[103]: Bind Head Tapping Screw-1 3.5X12 MFZN2Y (EP030240)

2. Back Board (Time required: about 1 min)

2-1 Remove the two (2) screws marked [S2] and the four (4) screws marked [S4]. The back top board can then be removed. (Fig.2)

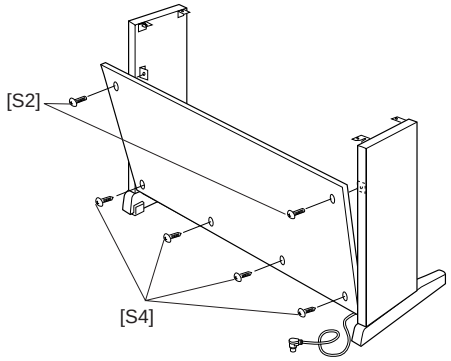
3. Side Board Assembly (L, R) (Time required: about 5 min)

* For safety, this process should be done by two personnel.

3-1 Remove the back board. (See procedure 2)

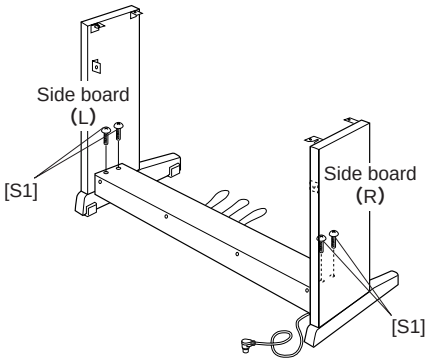
3-2 Remove the main unit. (See the CLP-110 service manual.)

3-3 Remove the two (2) screws marked [S1] for each side. The side board assembly (L, R) can then be removed. (Fig.3)



(Fig. 2)

[S2]: Truss Head Screw 4.0X12 MFZN2BL (VP367300)
[S4]: PW Head Tapping Screw-1 4.0X20 MFZN2BL (VR321000)



(Fig. 3)

[S1]: Truss Head Screw 6.0X20 MFZN2BL (VU711900)

4. Pedal Box Assembly (Time required: about 4 min)

* For safety, this process should be done by two personnel.

4-1 Remove the back board. (See procedure 2)

4-2 Remove the main unit. (See the CLP-110 service manual)

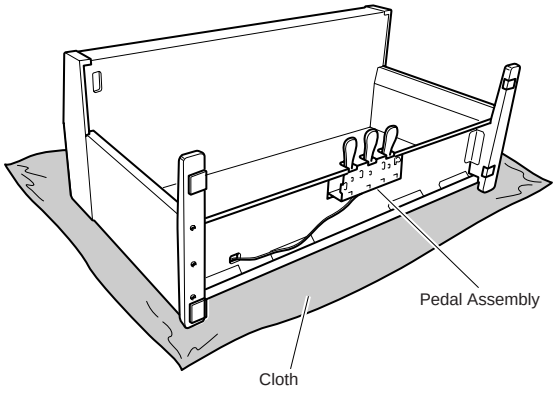
4-3 Remove the two (2) screws marked [S1] for each side. The pedal box assembly can then be removed. (Fig.3)

5. Pedal Assembly (Time required: about 2 min)

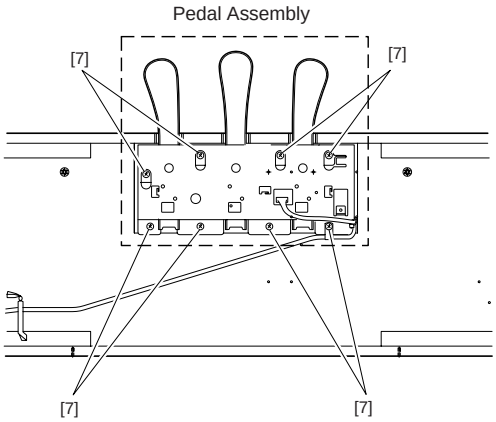
* For safety, this process should be done by two personnel.

5-1 Spread soft cloth on the floor and lay down the product carefully on its back. (Fig.4)

5-2 Remove the eight (8) screws marked [7]. The pedal assembly can then be removed. (Fig.5)



(Fig. 4)



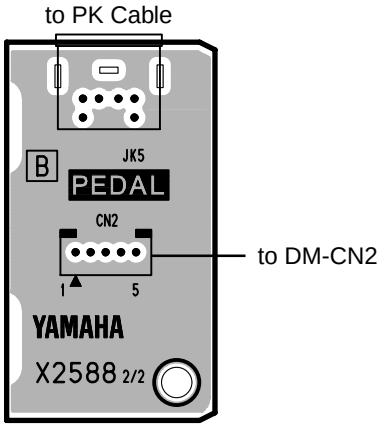
(Fig. 5)

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

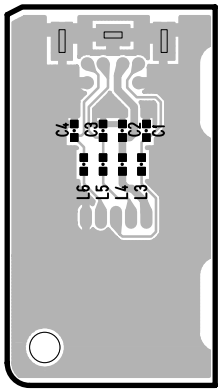
■ CIRCUIT BOARDS

- PEDAL Circuit Board (X2588B0) 9
- PEDAL (SW) Circuit Board(XR780B0) 9
- D-JACK Circuit Board (X2588B0) 10

• PEDAL Circuit Board



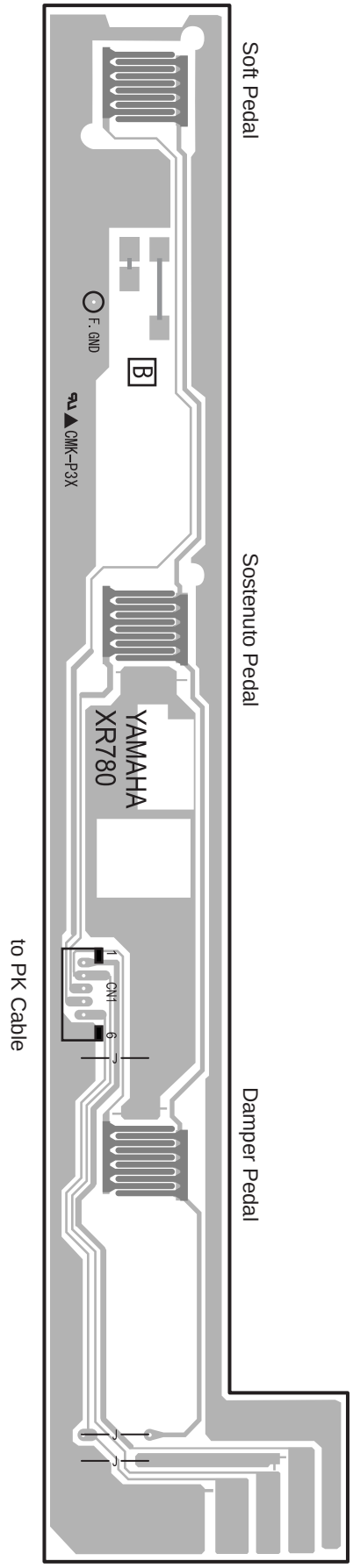
Component Side



Pattern Side

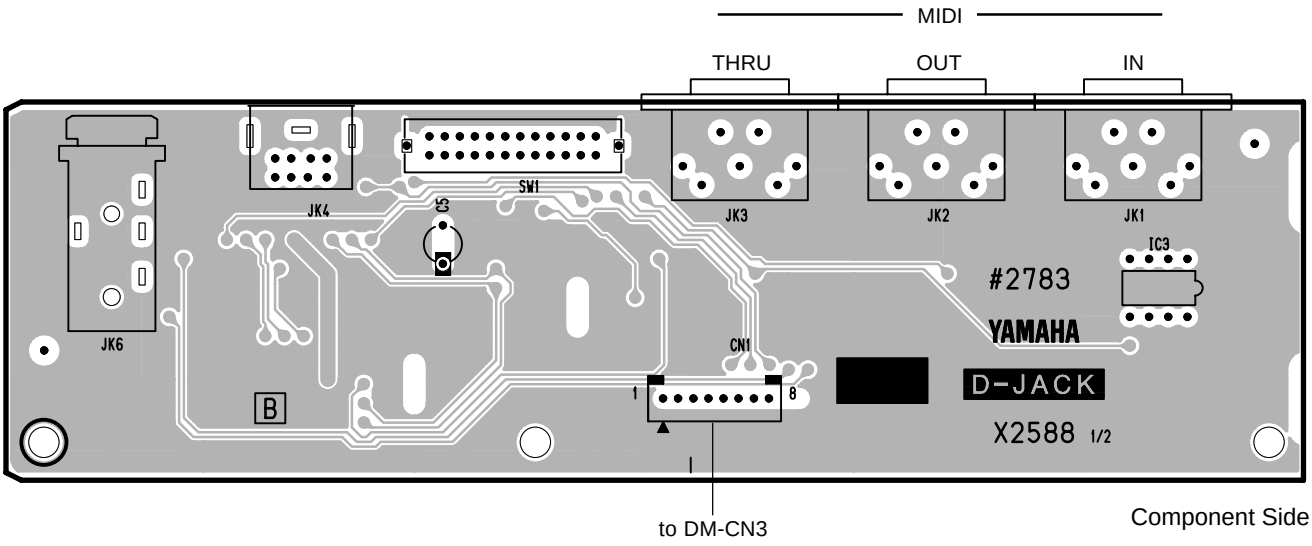
PEDAL: 2NA-V945640
PEDAL (SW): 2NA-V233730

• PEDAL (SW) Circuit Board

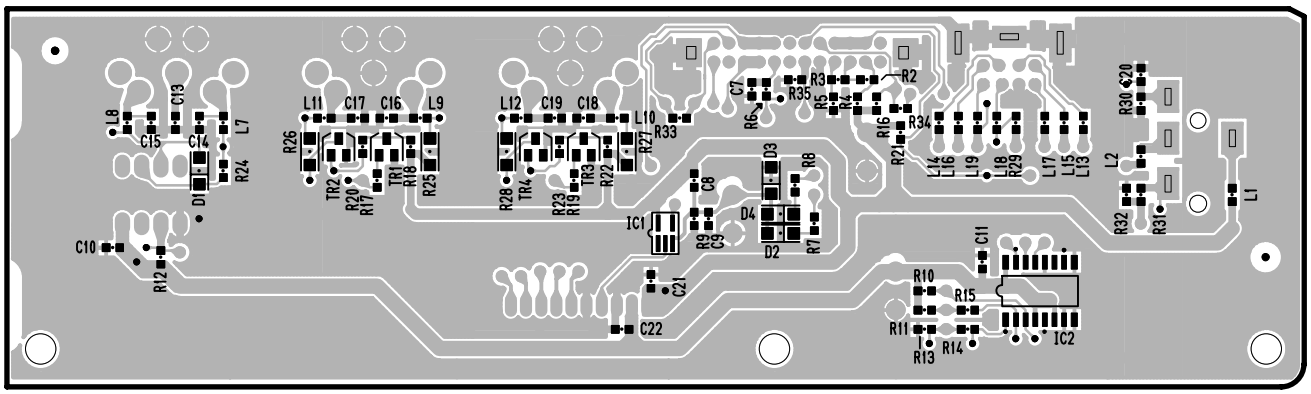


Component Side

- **D-JACK Circuit Board**



Component Side



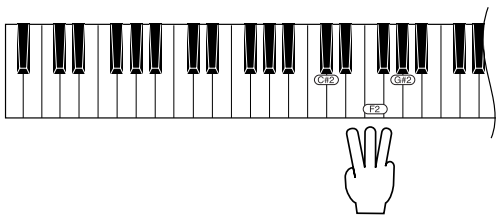
Pattern Side

2NA-V945640

■ TEST PROGRAM

1. Preparation

- To check the unit, following jigs are required.
  Level meter (with JIS-C Filter)
  Frequency counter
  MIDI cable



(Fig.1)

- Set each control as follows.
  MASTER VOLUME: Max
  Connect the mesurement plug to the HEADPHONES jack. (33 ohm)

2. To enter test program

Turn on the power with (C2#), (F2), (G2#) keys pressed and held. (Fig.1)
When the test program starts to run, sine wave of A3 sounds. Press any key to stop the sound.

3. To proceed the test

See the table 1 for each test item.
Press the corresponding key to select and execute each test.

Table 1 Test Items

No.	Key	Item	Test Function and Judgment Criteria
1	C1-A1, C2-A2	ROM Version	Confirm that the sine wave of C4 sounds. C1-A1 :integer (0-9) <example> C2-A2 :decimal (0-9) ver. 1.0=[C1#,C2]
2	C3	ROM 1	If the result is OK, the sine wave of C4 sounds. If the result is NG, the sine wave of C2 sounds.
3	C3#	RAM 1	If the result is OK, the sine wave of C4 sounds. If the result is NG, the sine wave of C2 sounds.
11	D3	Tone Generator	The sine waves from F3 to C6 automatically sounds in sequence. Confirm that no abnomal sound or noise is generated.
13	D3#	Pitch	Confirm that the sine wave of 440.0±0.2 Hz sounds.
14	E3	OUTPUT LEVEL R	The sine wave of C5 sounds. Confirm that the output level of each jack is as follows. (Unit [dBm]) PHONES L : R - 40 dB or less PHONES R : - 3.0 dB
15	F3	OUTPUT LEVEL L	The sine wave of C5 sounds. Confirm that the output level of each jack is as follows. (Unit [dBm]) PHONES L : -1.5 dB PHONES R : L - 40 dB or less
16	F3#	EQ Low	The sine wave of C1 sounds. Confirm that the output level of each jack is as follows. (Unit [dBm]) PHONES L, R : +4.0
17	G3	EQ Mid	The sine wave of C4 sounds. Confirm that the output level of each jack is as follows. (Unit [dBm]) PHONES L, R : -1.5

Table 1 Test Items

No.	Key	Item	Test Function and Judgment Criteria
18	G3#	EQ High	The sine wave of C6 sounds. Confirm that the output level of each jack is as follows. (Unit [dBm]) PHONES L, R : 0
19	A3	D/A noise	Press any key and confirm that no D/A noise is generated. * Before proceeding to next test, press C7 key to exit the D/A noise test.
20	A3#	SW, LED	Confirm that all LEDs light up.
31	B3	Soft Pedal	Confirm that the sine wave of C3 sounds when the soft pedal is depressed and that C4 sounds when the pedal is released.
32	C4	Sostenuto Pedal	Confirm that the sine wave of C3 sounds when the sostenuto pedal is depressed and that C4 sounds when the pedal is released.
33	C4#	Damper Pedal	Confirm that the sine wave of C3 sounds when the damper pedal is depressed and that C4 sounds when the pedal is released.
37	D4	MIDI	Connect the [MIDI IN] and [MIDI OUT] jack via MIDI cable and confirm that the sine wave of C4 sounds.
41	D4#	ROM Check 2	When the result is OK, the sine wave of C4 sounds. When the result is NG, the sine wave of C2 sounds. It takes about 45 seconds until this test is finished.
42	E4	RAM Check 2	When the result is OK, the sine wave of C4 sounds. When the result is NG, the sine wave of C2 sounds.
48	C7	TEST MODE Exit	Exit the test program and return to play mode.

■ MIDI IMPLEMENTATION CHART

YAMAHA [Clavinova] Date: 7 Mar, 2003
Model: CLP-115 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 *1 X X	Poly Mode only
Note Number	: True voice		9 - 120 **********	0 - 127 0 - 127	
Velocity	Note ON Note OFF		O 9nH, v=1 - 127 O 9nH, v=0	O 9nH, v=1 - 127 O 9nH, v=0 or 8nH	
After Touch	Key's Ch's		X X	X X	
Pitch Bend			X	X	
Control Change		0, 32	O	O	Bank Select
		7	O	O	Volume
		11	X	O	Expression
		64	O	O	Damper
		66	O	O	Sostenuto
		67	O	O	Soft pedal
		91	O	O	Reverb Depth
		94	X	O	Effect Depth
Program Change	: True #		O **********	O	
System Exclusive			O	O	
Common	: Song Pos. : Song Sel. : Tune		X X X	X X X	
System Real Time	: Clock : Commands		O O	O O	
Aux Messages	: All Sound Off : Reset All Cntrls : Local ON/OFF : All Notes OFF : Active Sense : Reset		O O X O O X	O (120, 126, 127) O (121) O (122) O (123 - 125) O X	

Notes : *1 = Recieve Mode is always multi timbre and Poly mode.

Mode 1: OMNI ON, POLY Mode 2: OMNI ON, MONO O : Yes
Mode 3: OMNI OFF, POLY Mode 4: OMNI OFF, MONO X : No

■ MIDI DATA FORMAT

If you're already very familiar with MIDI, or are using a computer to control your music hardware with computer-generated MIDI messages, the data provided in this section can help you to control the CLP-115.

1. NOTE ON/OFF

Data format: [9nH] -> [kk] -> [vv]

9nH = Note ON/OFF event (n = channel number)
kk = Note number (Transmit: 09H ~ 78H = A-2 ~ C8 / Receive: 00H ~ 7FH = C-2 ~ G8)*
vv = Velocity (Key ON = 01H ~ 7FH, Key OFF = 00H)

Data format: [8nH] -> [kk] -> [vv] (reception only)

8nH = Note OFF event (n = channel number)
kk = Note number: 00H ~ 7FH = C-2 ~ G8
vv = Velocity

* If received value exceeds the supported range for the selected voice, the note is adjusted by the necessary number of octaves.

2. CONTROL CHANGE

Data format: [BnH] -> [cc] -> [vv]

BnH = Control change (n = channel number)
cc = Control number
vv = Data Range

(1) Bank Select

ccH	Parameter	Data Range (vvH)
00H	Bank Select MSB	00H:Normal
20H	Bank Select LSB	00H...7FH

Bank selection processing does not occur until receipt of next Program Change message.

(2) Main Volume (reception only)

ccH	Parameter	Data Range (vvH)
07H	Volume MSB	00H...7FH

(3) Expression (reception only)

ccH	Parameter	Data Range (vvH)
0BH	Expression MSB	00H...7FH

(4) Damper

ccH	Parameter	Data Range (vvH)
40H	Damper MSB	00H...7FH

(5) Sostenuto

ccH	Parameter	Data Range (vvH)
42H	Sostenuto	00H-3FH:off, 40H-7FH:on

(6) Soft Pedal

ccH	Parameter	Data Range (vvH)
43H	Soft Pedal	00H-3FH:off, 40H-7FH:on

(7) Effect1 Depth (Reverb Send Level)

ccH	Parameter	Data Range (vvH)
5BH	Effect1 Depth	00H...7FH

Adjusts the reverb send level.

(8) Effect4 Depth (Variation Effect Send Level) (reception only)

ccH	Parameter	Data Range (vvH)
5EH	Effect4 Depth	00H...7FH

3. MODE MESSAGES

Data format: [BnH] -> [cc] -> [vv]

BnH = Control event (n = channel number)
cc = Control number
vv = Data Range

(1) All Sound Off

ccH	Parameter	Data Range (vvH)
78H	All Sound Off	00H

(2) Reset All Controllers

ccH	Parameter	Data Range (vvH)
79H	Reset All Controllers	00H

Resets controllers as follows.

Controller	Value
Expression	127 (max)
Damper Pedal	0 (off)
Sostenuto	0 (off)
Soft Pedal	0 (off)

(3) Local Control (reception only)

ccH	Parameter	Data Range (vvH)
7AH	Local Control	00H (off), 7FH (on)

(4) All Notes Off

ccH	Parameter	Data Range (vvH)
7BH	All Notes Off	00H

Switches OFF all the notes that are currently ON on the specified channel. Any notes being held by the damper or sostenuto pedal will continue to sound until the pedal is released.

(5) Omni Off (reception only)

ccH	Parameter	Data Range (vvH)
7CH	Omni Off	00H

Same processing as for All Notes Off.

(6) Omni On (reception only)

ccH	Parameter	Data Range (vvH)
7DH	Omni On	00H

Same processing as for All Notes Off.

(7) Mono (reception only)

ccH	Parameter	Data Range (vvH)
7EH	Mono	00H

Same processing as for All Sound Off.

(8) Poly (reception only)

ccH	Parameter	Data Range (vvH)
7FH	Poly	00H

Same processing as for All Sound Off.

- When control change reception is turned OFF, control change data will not be transmitted or received except for Bank Select and Mode messages.
- Local on/off, OMNI on/off are not transmitted. (The appropriate note off number is supplied with "All Note Off" transmission).
- When a voice bank MSB/LSB is received, the number is stored in the internal buffer regardless of the received order, then the stored value is used to select the appropriate voice when a program change message is received.
- The Multi-timbre and Poly modes are always active. No change occurs when OMNI ON, OMNI OFF, MONO, or POLY mode messages are received.

4. PROGRAM CHANGE

Data format: [CnH] -> [ppH]

CnH = Program event (n = channel number)
ppH = Program change number
P.C.#=Program Change number

Voice Name	MSB	LSB	P.C.#
Grand Piano 1	0	122	1
Grand Piano 2	0	112	1
E.Piano 1	0	122	6
E.Piano 2	0	122	5
Harpsichord 1	0	122	7
Harpsichord 2	0	123	7
Vibraphone	0	122	12
Church Organ 1	0	123	20
Church Organ 2	0	122	20
Strings	0	122	49

- When you specify a program change as a number in the range of 0-127, specify a number that is one less than the program number listed above. For example, to specify program number 1, you would specify program change 0.
- When program change reception is turned OFF, no program change data is transmitted or received. Also, Bank MSB/LSB is not transmitted or received.

5. SYSTEM REALTIME MESSAGES

[rrH]
F8H: Timing clock
FAH: Start
FCH: Stop
FEH: Active sensing

Data	Transmission	Reception
F8H	Transmitted every 96 clocks	Received as 96-clock tempo timing when MIDI clock is set to External.
FAH	Song start	Song start Not received when the MIDI clock is set to Internal.
FCH	Song stop	Song stop Not received when the MIDI clock is set to Internal.
FEH	Transmitted every 200 milliseconds	If a signal is not received via MIDI for more than 400 milliseconds, the same processing will take place for All Sound Off, All Notes Off and Reset All Controllers as when those signals are received.

- Caution: If an error occurs during MIDI reception, the Damper, Sostenuto, and Soft effects for all channels are turned off and an All Note Off occurs.

6. SYSTEM EXCLUSIVE MESSAGES (Universal System Exclusive)

(1) Universal Realtime Message

Data format: [F0H] -> [7FH] -> [XnH] -> [04H] -> [01H] -> [llH] -> [mmH] -> [F7H]

MIDI Master Volume

- Simultaneously changes the volume of all channels.
- When a MIDI master volume message is received, the volume only has affect on the MIDI receive channel, not the panel master volume.

F0H = Exclusive status
7FH = Universal Realtime
7FH = ID of target device
04H = Sub-ID #1=Device Control Message
01H = Sub-ID #2=Master Volume
*ll*H = Volume LSB
mmH = Volume MSB
F7H = End of Exclusive

or

F0H = Exclusive status
7FH = Universal Realtime
XnH = When n is received n=0~F, whichever is received.
X = don't care
04H = Sub-ID #1=Device Control Message
01H = Sub-ID #2=Master Volume
*ll*H = Volume LSB
mmH = Volume MSB
F7H = End of Exclusive

(2) Universal Non-Realtime Message (GM On)

General MIDI Mode On

Data format: [F0H] -> [7EH] -> [XnH] -> [09H] -> [01H] -> [F7H]

F0H = Exclusive status
7EH = Universal Non-Realtime
7FH = ID of target device
09H = Sub-ID #1=General MIDI Message
01H = Sub-ID #2=General MIDI On
F7H = End of Exclusive

or

F0H = Exclusive status
7EH = Universal Non-Realtime
XnH = When received, n=0~F.
X = don't care
09H = Sub-ID #1=General MIDI Message
01H = Sub-ID #2=General MIDI On
F7H = End of Exclusive

When the General MIDI mode ON message is received, the MIDI system will be reset to its default settings.
This message requires approximately 50ms to execute, so sufficient time should be allowed before the next message is sent.

7. SYSTEM EXCLUSIVE MESSAGES (XG Standard)

(1) XG Native Parameter Change

Data format: [F0H] -> [43H] -> [1nH] -> [4CH] -> [hhH] -> [mmH] -> [*ll*H] -> [ddH] -> [F7H]

F0H = Exclusive status
43H = YAMAHA ID
1nH = When received, n=0~F.
When transmitted, n=0.
4CH = Model ID of XG
hhH = Address High
mmH = Address Mid
*ll*H = Address Low
ddH = Data
|
F7H = End of Exclusive

Data size must match parameter size (2 or 4 bytes).
When the XG System On message is received, the MIDI system will be reset to its default settings.
The message requires approximately 50ms to execute, so sufficient time should be allowed before the next message is sent.

(2) XG Native Bulk Data (reception only)

Data format: [F0H] -> [43H] -> [0nH] -> [4CH] -> [aaH] -> [bbH] -> [hhH] -> [mmH] -> [*ll*H] ->[ddH] ->...-> [ccH] -> [F7H]

F0H = Exclusive status
43H = YAMAHA ID
0nH = When received, n=0~F.
When transmitted, n=0.
4CH = Model ID of XG
aaH = ByteCount
bbH = ByteCount
hhH = Address High
mmH = Address Mid
*ll*H = Address Low
ddH = Data
| |
| |
ccH = Check sum
F7H = End of Exclusive

- Receipt of the XG SYSTEM ON message causes reinitialization of relevant parameters and Control Change values. Allow sufficient time for processing to execute (about 50 msec) before sending the CLP-115 another message.
- XG Native Parameter Change message may contain two or four bytes of parameter data (depending on the parameter size).
- For information about the Address and Byte Count values, refer to Table 1 below. Note that the table's Total Size value gives the size of a bulk block. Only the top address of the block (00H, 00H, 00H) is valid as a bulk data address.

8. SYSTEM EXCLUSIVE MESSAGES (Clavinova MIDI Format)

Data format: [F0H] -> [43H] -> [73H] -> [xxH] -> [nnH] -> [F7H]

F0H = Exclusive status
43H = Yamaha ID
73H = Clavinova ID
01H = Product ID (CLP common)
or
7F= Extended Product ID
24H = Product ID
nnH = Substatus
nn Control
02H Internal MIDI clock
03H External MIDI clock
06H Bulk Data (the bulk data follows 06H)
F7H = End of Exclusive

* When nn=02H or 03H, Clavinova common ID (01H) is rec-ognized as well as 75H.

9. SYSTEM EXCLUSIVE MESSAGES (Special Control)

Data format: [F0H] -> [43H] -> [73H] -> [66H] -> [11H] -> [0nH] -> [ccH] -> [vvH] -> [F7H]

F0H = Exclusive status
43H = Yamaha ID
73H = Clavinova ID
7FH = Extended Product ID
24H = Product ID
11H = Special control
0nH = Control MIDI change (n=channel number)
cc = Control number
vv = Value
F7H = End of Exclusive

Control	Channel	ccH	vvH
Metronome	Always 00H	1BH	00H : off 01H : – 02H : 2/4 03H : 3/4 04H : 4/4 05H : 5/4 06H : 6/4 7FH : No accent
Channel Detune	ch: 00H-0FH	43H	(Sets the Detune value for each channel) 00H-7FH
Voice Reserve	ch: 00H-0FH	45H	00H : Reserve off 7FH : on*

* When Volume, Expression is received for Reserve On, they will be effective from the next Key On. Reserve Off is normal.

10. SYSTEM EXCLUSIVE MESSAGES (Others)

Data format: [F0H] -> [43H] -> [1nH] -> [27H] -> [30H] -> [00H] -> [00H] -> [mmH] -> [*ll*H] -> [ccH] -> [F7H]

Master Tuning (XG and last message priority) simultaneously changes the pitch of all channels.
F0H = Exclusive Status
43H = Yamaha ID
1nH = When received, n=0~F.
When transmitted, n=0.
27H = Model ID of TG100
30H = Sub ID
00H =
00H =
mmH = Master Tune MSB
*ll*H = Master Tune LSB
ccH = don't care (under 7FH)
F7H = End of Exclusive

<Table 1>

MIDI Parameter Change table (SYSTEM)

Address (H)	Size (H)	Data (H)	Parameter	Description	Default value (H)
00 00 00	4	020C - 05F4(*1)	MASTER TUNE	-50 - +50[cent]	00 04 00 00
01				1st bit 3 - 0 bit 15 - 12	400
02				2nd bit 3 - 0 bit 11 - 8	
03				3rd bit 3 - 0 bit 7 - 4	
				4th bit 3 - 0 bit 3 - 0	
04	1	00 - 7F	MASTER VOLUME	0 - 127	7F
05	1	—	—		
06	1	34 - 4C(*2)	TRANSPOSE	-12 - +12[semitones]	40
7E		00	XG SYSTEM ON	00=XG system ON	
7F		00	RESET ALL PARAMETERS	00=ON (receive only)	

TOTAL SIZE 07

*1:Values lo wer than 020CH select -50 cents . Values higher than 05F4H select +50 cents .

*2:Values from 28H through 33H are inter preted as -12 through -1. Values from 4DH through 58H are inter preted as +1 through +12.

<Table 2>

MIDI Parameter Change table (EFFECT 1)

Refer to the "Effect MIDI Map"for a complete list of Reverb, Chorus and Variation type numbers .

Address (H)	Size (H)	Data (H)	Parameter	Description	Default value (H)
02 01 00	2	00-7F	REVERB TYPE MSB	Refer to Eff ect MIDI Map	01(=HALL1)
		00-7F	REVERB TYPE LSB	00 : basic type	00
02 01 40	2	00-7F	VARIATION TYPE MSB	Refer to Eff ect MIDI Map	00(=Effect off)
		00-7F	VARIATION TYPE LSB	00 : basic type	00

•"VARIATION"refers to the EFFECT on the panel.

<Table 3>

MIDI Parameter Change table (MULTI PART)

Address (H)	Size (H)	Data (H)	Parameter	Description	Default value (H)
08 nn 11	1	00 - 7F	DRY LEVEL	0 - 127	7F

nn = Part Number

• Effect MIDI Map

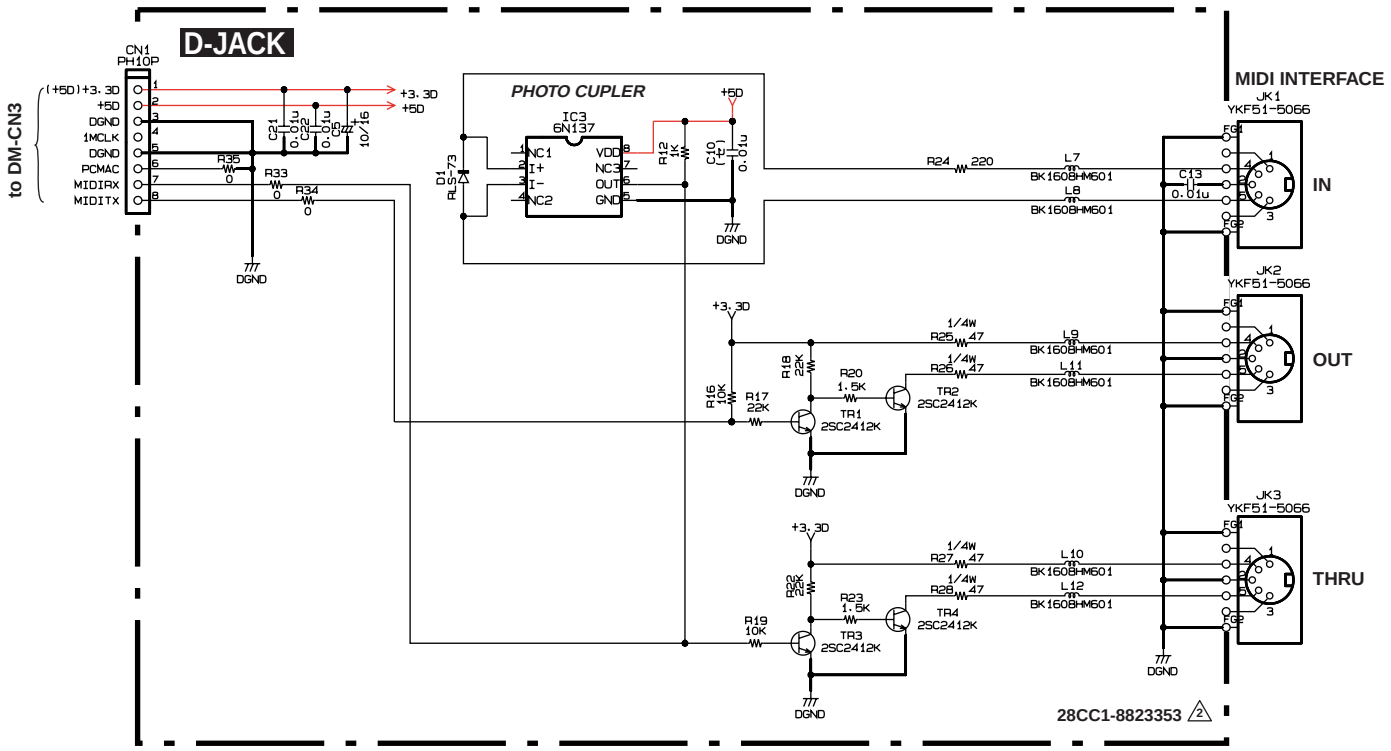
REVERB

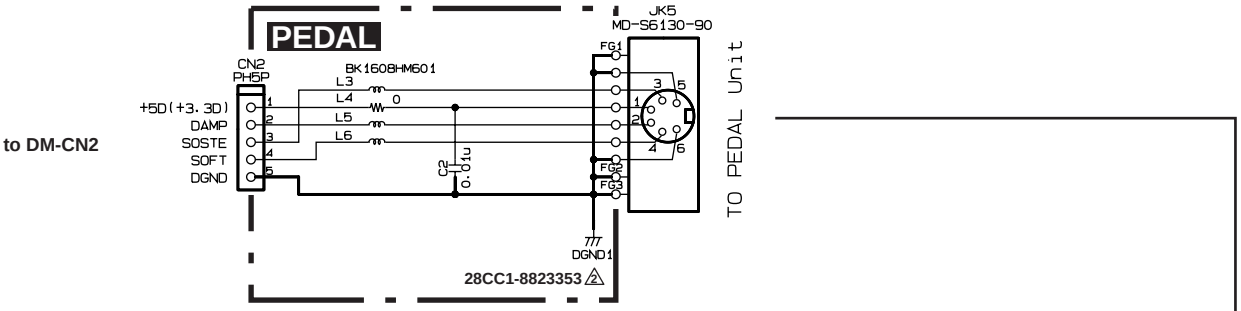
	MSB	LSB
ROOM	02H	10H
HALL 1	01H	10H
HALL 2	01H	11H
STAGE	03H	10H

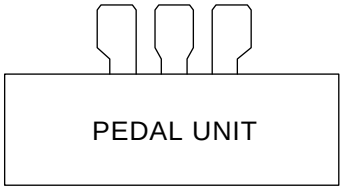
EFFECT

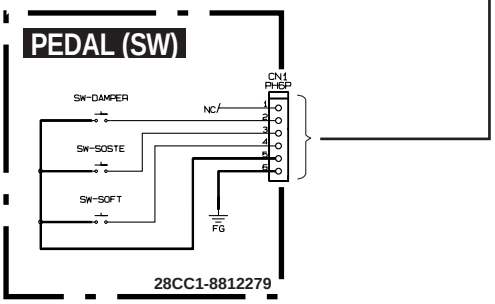
	MSB	LSB
CHORUS	42H	10H
PHASER	48H	10H
TREMOLO	46H	10H
DELAY	05H	10H

■ OVERALL CIRCUIT DIAGRAM (D-JACK, PEDAL, PEDAL (SW))









(セ): Ceramic Capacitor

Note: See parts list for details of citcuit baord component parts.

Clavinova®

CLP115

PARTS LIST

■ **CONTENTS**

OVERALL ASSEMBLY 2
MAIN UNIT 4
SIDE BOARD ASSEMBLY 8
PEDAL BOX ASSEMBLY 9
PEDAL ASSEMBLY 10
TOP BOARD ASSEMBLY 11
MUSIC REST ASSEMBLY 12
SIDE COVER ASSEMBLY 13
END BLOCK ASSEMBLY 14
PANEL ASSEMBLY 15
KEY COVER ASSEMBLY 16
POWER SUPPLY UNIT 17
KEYBOARD ASSEMBLY 18
A SHEET ASSEMBLY 20
D-JACK ASSEMBLY 20
HEADPHONES JACK ASSEMBLY. 21
BENCH 22
ELECTRICAL PARTS 23

Note) DESTINATION ABBREVIATIONS

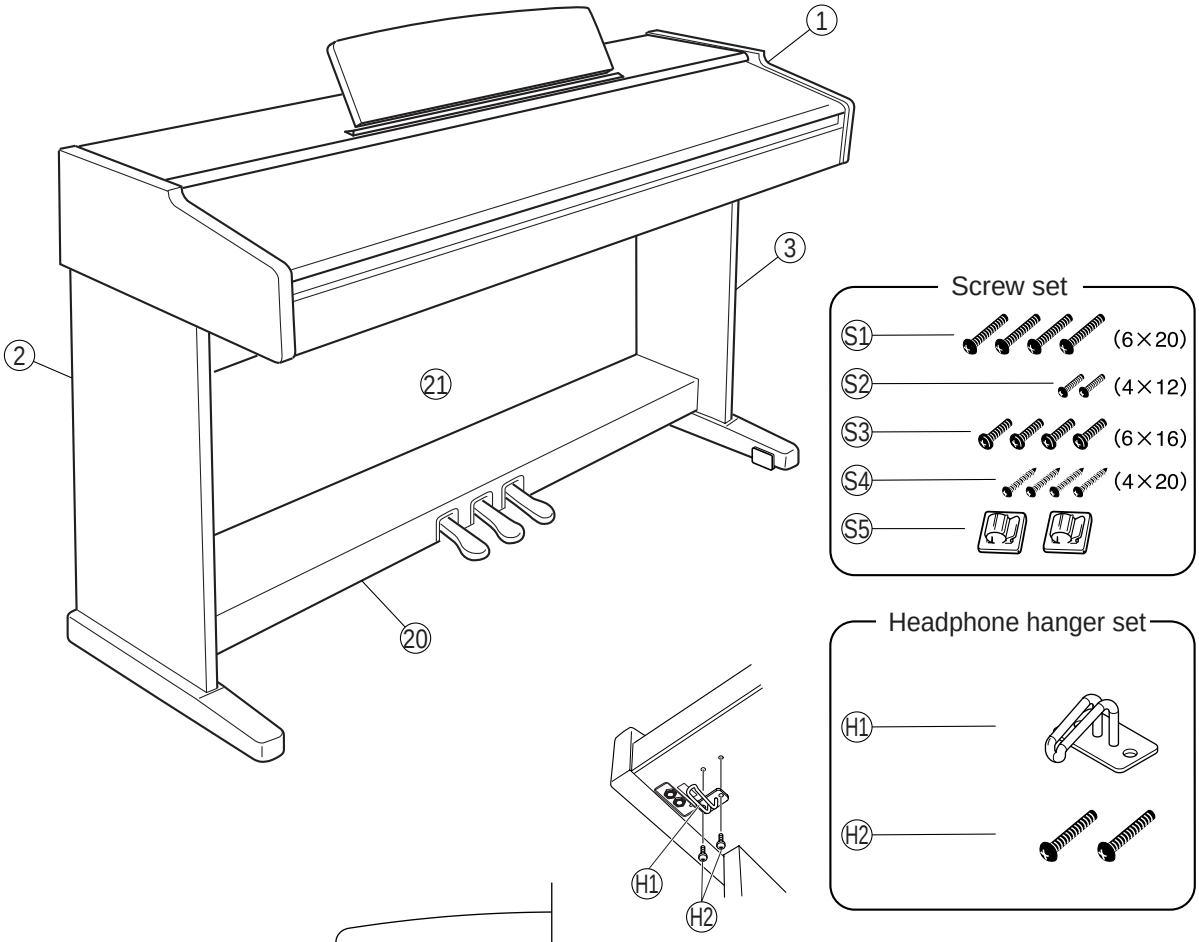
A:	Australian model	M:	South African model
B:	British model	O:	Chinese model
C:	Canadian model	Q:	South-east Asia model
D:	German model	T:	Taiwan model
E:	European model	U:	U.S.A. model
F:	French model	V:	General export model (110V)
H:	North European model	W:	General export model (220V)
I:	Indonesian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

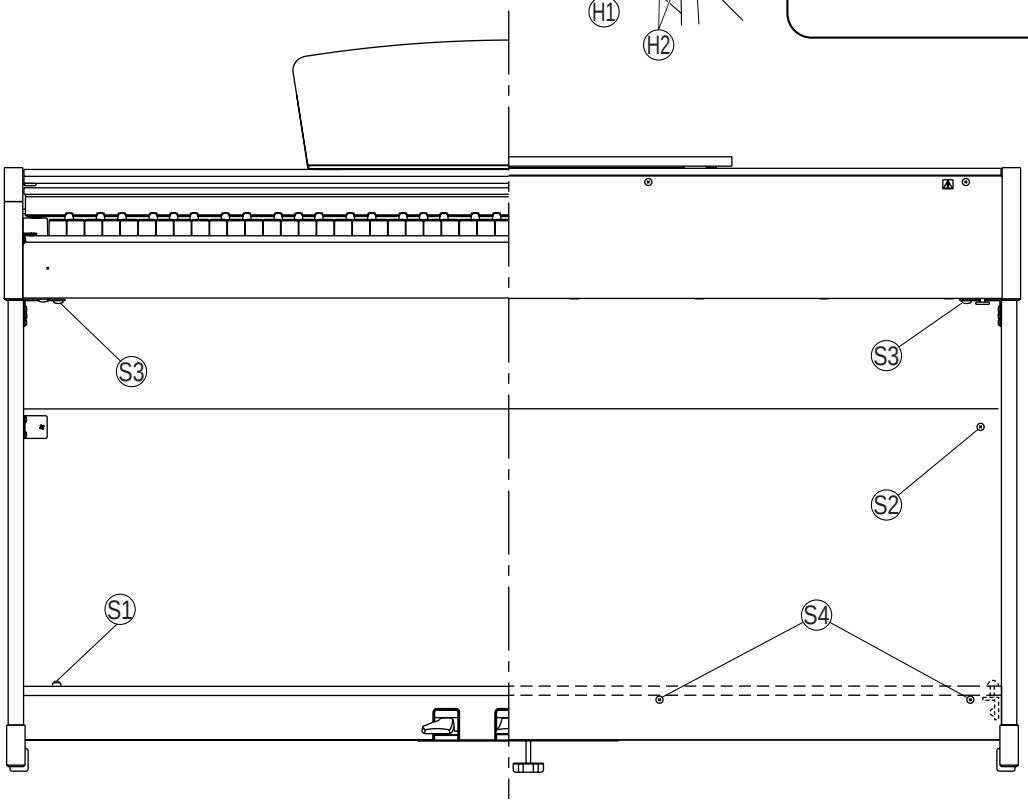
■ WARNING

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

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

■ OVERALL ASSEMBLY





• **Front view** • **Rear view**

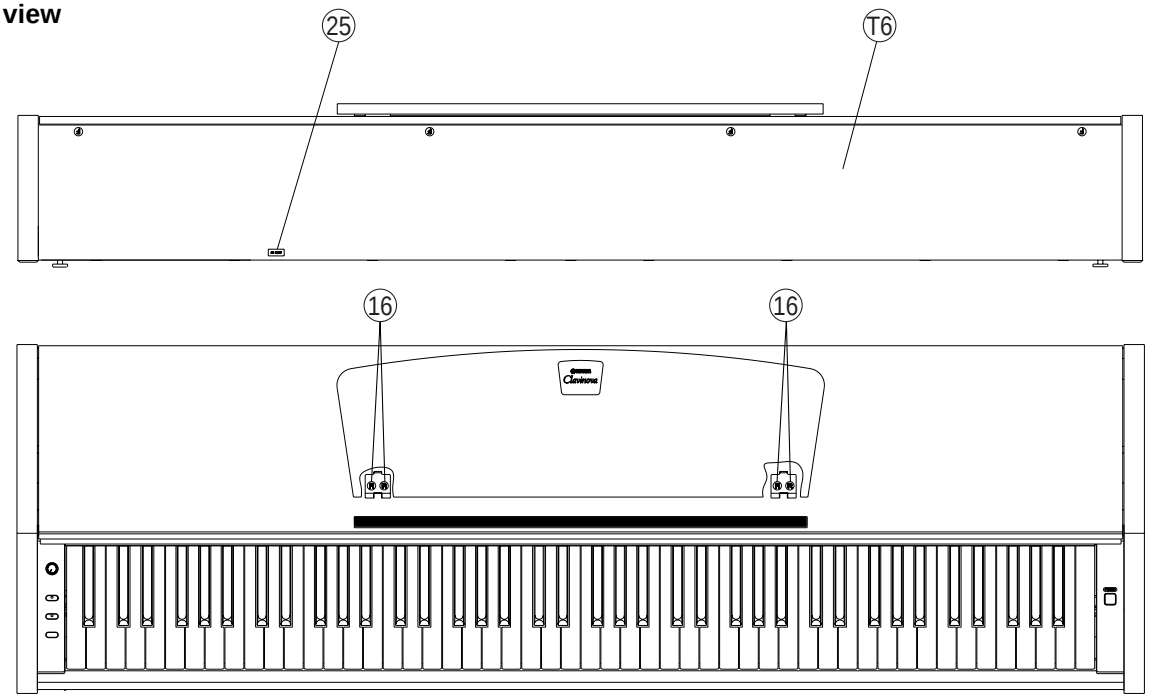
REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		OVERALL ASSEMBLY		総組立	CLP-115 (WB29420)		
1	--	Main Unit		メインユニット	U (WB29570)		
1	--	Main Unit		メインユニット	E,B (WB29580)		
1	--	Main Unit		メインユニット	N (WB29590)		
2	V9742300	Side Board Assembly L	LEFT	側板Ａｓｓ’ｙ（Ｌ）			18
3	V9742400	Side Board Assembly R	RIGHT	側板Ａｓｓ’ｙ（Ｒ）			18
20	--	Pedal Box Assembly		ペダルＢｏｘＡｓｓ’ｙ	(V974350)		
21	V9744200	Back Board Set		裏板セット			11
		ACCESSORIES		付属品			
	VV685400	Screw Set		ネジセット			04
S1	VU711900	Truss Head Screw	6.0X20 MFZN2BL	＋トラス小ネジ		4	01
S2	VP367300	Truss Head Screw	4.0X12 MFZN2BL	＋トラス小ネジ		2	01
S3	EG360020	Bind Head Screw	6.0X16 MFZN2BL	＋バインド小ネジ		4	01
S4	VR321000	PW Head Tapping Screw-1	4.0X20 MFZN2BL	＋ＰＷＨＴＰ　１種		4	01
S5	VR410300	Cord Clamp Set		コードクランプセット			03
S5a	VP592100	Cord Clamper	DKN-5B(VHB)	ＮＫクランプ		2	03
⚠	V2917000	AC Cord Set	UC 2P 7A 2.44m	電源コードセット	U		06
⚠	V2917100	AC Cord Set	E 2P 2.5m 2.5A	電源コードセット	E,N		05
⚠	VT015800	AC Cord Set	U 2P 2.44m 7A	電源コードセット	U		06
⚠	VT015900	AC Cord Set	E 2P 2.5m	電源コードセット	E,N		05
⚠	VT016000	AC Cord Set	B 2P 2.5m	電源コードセット	B		08
	--	Bench	BC-100DR	同梱品セット椅子	U,N (V553140)		
	V8740600	Headphone Hanger Set		ヘッドホンハンガーセット			07
H1	V8972600	Headphone Hanger		ヘッドホンハンガー			04
H2	VT196400	Truss Head Screw	4.0X10 MFZN2BL	＋トラス小ネジ		2	01
	WA174600	Back Toe Set	#2800 E/F/S	バックトウセット	U		05
B1	EP030580	Bind Head Tapping Screw-1	3.5X20 MF2N2BL	＋バインドＴＰ１種		2	01
B2	EP030250	Bind Head Tapping Screw-1	3.5X14 MF2N2BL	＋バインドＴＰ１種		2	01
	VK726100	Connector	CCT-5902-0701	ＡＣアダプタ	N		03
		JIGS		工具			
	TX000670	Rod		ロッド			99

*: New Parts **（新規部品）**

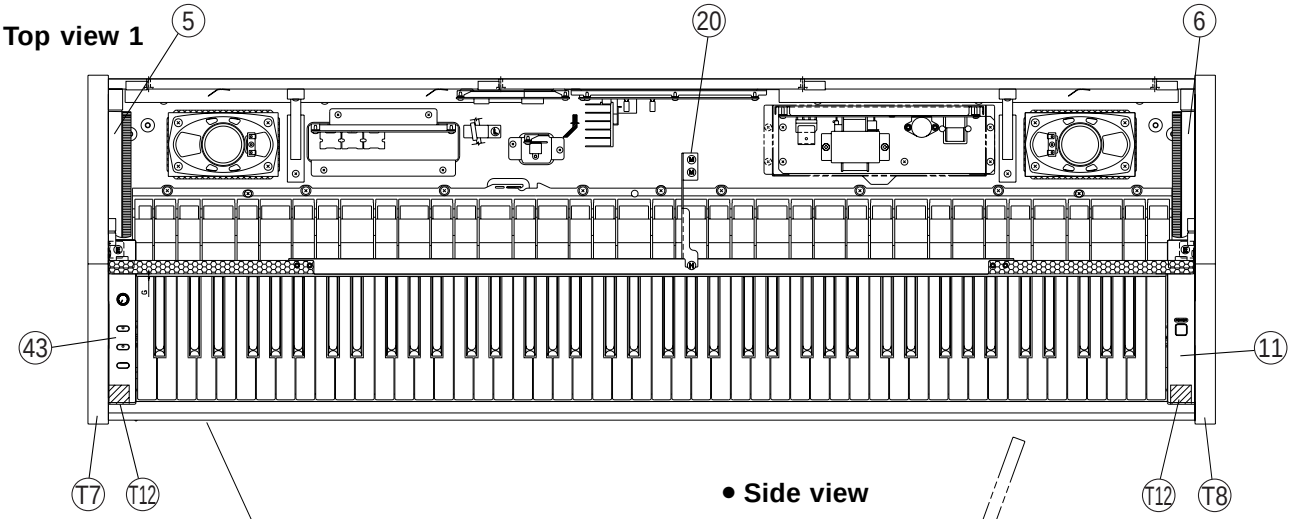
RANK: Japan only

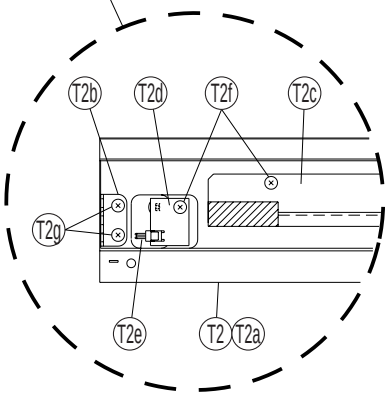
■ MAIN UNIT

• **Rear view**

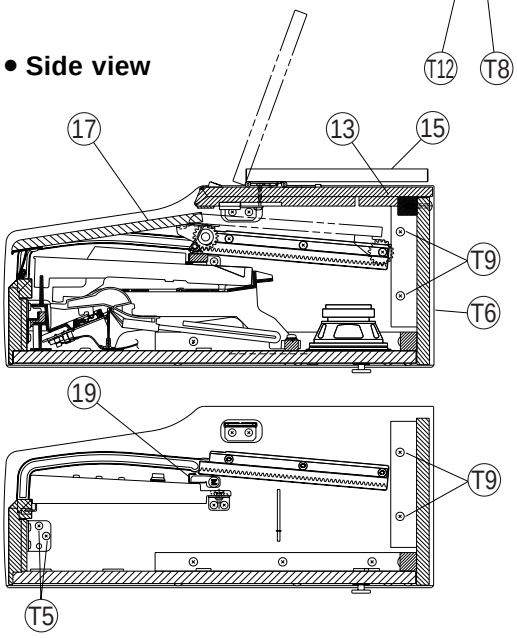


• **Top view 1**

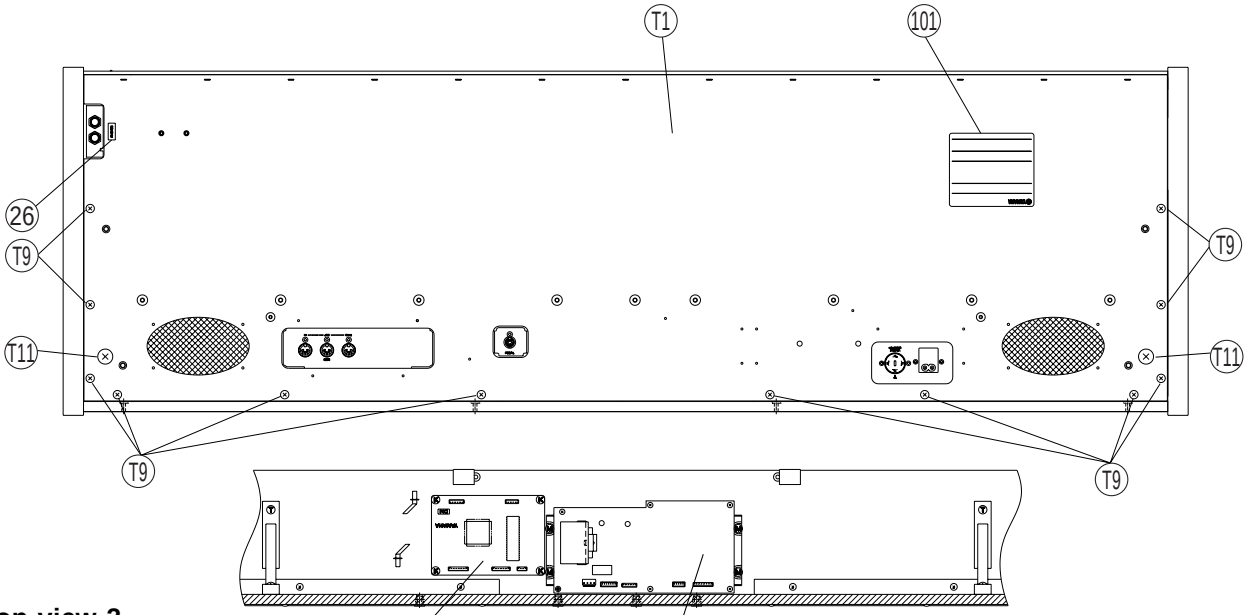




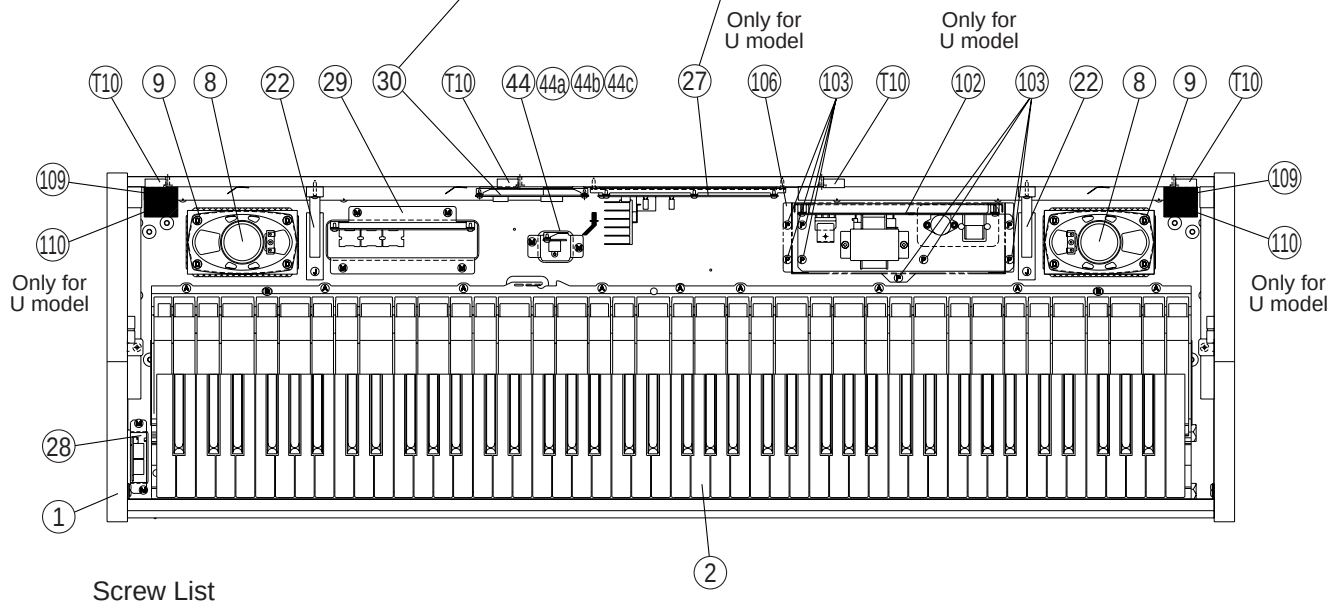
• **Side view**



• **Bottom view**



• **Top view 2**



Screw List

Ref. No	Screw	Part Name, Part Number	Quantity
3	Ⓐ	Pan Head Screw (VV040700)	9
4	Ⓑ	Bind Head Tapping Screw-1 (EP040230)	2
7	Ⓒ	Bind Head Tapping Screw-1 (EP030470)	6
10	Ⓓ	Truss Head Tapping Screw-1 (03747340)	8
12	Ⓔ	Bind Head Tapping Screw-B (EP640130)	2
14	Ⓕ	Truss Head Tapping Screw-1 (EN640160)	4
16	Ⓣ	Bind Head tapping Screw-1 (EP030310)	4
21	Ⓗ	Bind Head Screw (03753500)	1
23	Ⓡ	Truss Head Tapping Screw-1 (EN630260)	2
24	Ⓙ	Truss Head Screw (VL445800)	2
31	Ⓚ	Bind Head Tapping Screw-B (EP600130)	4
39	Ⓛ	Truss Head Tapping Screw-1 (EN630230)	1
40	Ⓜ	Bind Head Tapping Screw-1 (EP030240)	16

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		MAIN UNIT		メインユニット	CLP-115		
	--	Main Unit		メインユニット	U (WB29570)		
	--	Main Unit		メインユニット	E (WB29580)		
	--	Main Unit		メインユニット	N (WB29590)		
	--	Main Unit Sub Assembly		共通部品構成	(WB29600)		
101	--	Name Plate		銘板	U (WB29610)		
101	--	Name Plate		銘板	N (WB29640)		
101	--	Name Plate		銘板	E (WB29620)		
102	V0010400	Power Supply Unit		電源ユニット（E）	E		14
102	V0010500	Power Supply Unit		電源ユニット（N）	N		22
102	V0010300	Power Supply Unit		電源ユニット（U）	U		14
103	EP030240	Bind Head Tapping Screw-1	3.5X12 MFZN2Y	＋バインドＴＰ１種	E,N	5	01
103	EP030240	Bind Head Tapping Screw-1	3.5X12 MFZN2Y	＋バインドＴＰ１種	U	8	01
106	V9559700	Power Supply Cover Ass'y		電源カバーＡｓｓ’ｙ	U		
106a	V2035900	Cover, Power Supply Unit		電源ユニットカバー	U		07
106b	V9559800	Felt	235X75XT1	フェルト	U		03
107	VB951400	Graphic Mark	MKX-5 UL	グラフィックマーク	U		03
107	--	Graphic Mark	YMMA	グラフィックマーク	U (V846210)		
109	VP834600	Adhesive Tape	12X50	粘着テープ	E,N		02
110	--	Conductive Adhesive Tape	AL-40 40X20m	導電性粘着テープ	U (WA53090)		
	--	Main Unit Sub Assembly		共通部品構成	(WB29600)		
1	--	Top Unit Assembly		上部集成	(WB29650)		
2	VZ705400	Keyboard Assembly	A88 K6	ＧＨＤ鍵盤Ａｓｓ’ｙ			63
3	VV040700	Pan Head Screw	5.0X25 MFZN2Y PW	＋ナベ小ネジ		9	01
4	EP040230	Bind Head Tapping Screw-1	4.0X14 MFZN2Y	＋バインドＴＰ１種		2	01
5	V8518500	Rack L	LEFT	ラック成形品（Ｌ）			02
6	V8518600	Rack R	RIGHT	ラック成形品（Ｒ）			02
7	EP030470	Bind Head Tapping Screw-1	3.5X20 MFZN2Y	＋バインドＴＰ１種		6	01
8	X0657A00	Speaker	13.0cm 4ohm 10W	スピーカ		2	06
9	--	Speaker Cushion		スピーカークッション	(V861680)	2	
10	03747340	Truss Head Tapping Screw-1	4.0X16 MFZN2Y	＋トラスＴＰ１種		8	
11	V8733300	End Block Assembly	RIGHT	拍子木（Ｒ）Ａｓｓ’ｙ			08
12	EP640130	Bind Head Tapping Screw-B	4.0X10 MFZN2Y	＋バインドＢタイト		2	01
13	V8513300	Top Board Assembly		屋根Ａｓｓ’ｙ			10
14	EN640160	Truss Head Tapping Screw-1	4.0X25 MFZN2BL	＋トラスＴＰ１種		4	01
15	V8514200	Music Rest Assembly		譜面板Ａｓｓ’ｙ			16
16	EP030310	Bind Head Tapping Screw-1	3.0X16 MFZN2BL	＋バインドＴＰ１種		4	01
17	V8516800	Key Cover Assembly		スライド蓋Ａｓｓ’ｙ			15
19	V8614600	Panel Assembly		パネルＡｓｓ’ｙ			07
20	--	Angle Z		アングルＺ	(V907120)		
21	03753500	Bind Head Screw	3.0X8 MFZN2Y	＋バインド小ネジ			01
22	--	Partition Assembly		仕切りＡｓｓ’ｙ	(V908210)	2	
23	EN630260	Truss Head Tapping Screw-1	3.5X20 MFZN2Y	＋トラスＴＰ１種		2	01
* 24	WB676000	Truss Head Screw	4.0X23 MFZN2Y	＋トラス小ネジ		2	01
25	VT501000	Label		ＡＣ ＩＮＬＥＴラベル			03
26	--	Label, PHONES		ＰＨＯＮＥＳラベル	(VS47810)		
27	--	A Sheet Assembly		Ａシートアッセンブリ	(V907410)		
28	--	Headphones Jack Assembly		ＨＰジャックＡｓｓ’ｙ	(V969120)		
29	--	D-Jack Assembly		Ｄジャックアッセンブリ	(V975480)		
30	V8910100	Circuit Board	DM	ＤＭシート			20
31	EP600130	Bind Head Tapping Screw-B	3.0X6 MFZN2Y	＋バインドＢタイト		4	01
33	VK108600	Connector Assembly	KRD-KRD 11P-350	ＫＲＤ－ＫＲＤ束線			
34	V9401000	Connector Assembly	MK	ＭＫ束線			
35	VK099600	Connector Assembly	KRD-KRD 2P-150	ＫＲＤ－ＫＲＤ束線			02
36	--	Connector Assembly	AMSP	ＡＭＳＰ束線	(V909110)		
37	--	Connector Assembly	AMHP	ＡＭＨＰ束線	(V908680)		
38	--	Connector Assembly	PS	電源束線	(V004510)		
39	EN630230	Truss Head Tapping Screw-1	3.5X14 MFZN2Y	＋トラスＴＰ１種			01
40	EP030240	Bind Head Tapping Screw-1	3.5X12 MFZN2Y	＋バインドＴＰ１種		16	01
42	VP834600	Adhesive Tape	12X50	粘着テープ		2	02
43	--	End Block Assembly	LEFT	拍子木（Ｌ）Ａｓｓ’ｙ	(WB29660)		
44	--	PK Connector		ＰＫコネクタ	(V975520)		
44a	V4980600	Plate	BL-PRINT	ペダル接続金具印刷品			05
44b	V9456600	Circuit Board	PEDAL	ＰＥＤＡＬシート	(V945640)		03
44c	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL	＋バインドＢタイト		2	01
45	VK097800	Connector Assembly	KRD-KRD 5P-100	ＫＲＤ－ＫＲＤ束線			02
46	--	Connector Assembly	KRD-KRD 8P-250	ＫＲＤ－ＫＲＤ束線	(VJ98180)		
47	--	Artificial Leather	40X20X0.8	人工皮革	(WB95300)	3	
48	CB069250	Cord Holder	BK-1	インシュロックタイ			01

*: New Parts **（新規部品）**

RANK: Japan only

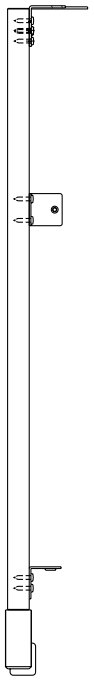
REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
49	--	Adhesive Tape	AL-40 40X20M	導電性粘着テープ	(WA53090)		
	--	Top Unit Assembly		上部集成	(WB29650)		
	AAX41330	Keybed&F.Rail Assembly	(V975300+V907300)	棚板口棒Ａｓｓ’ｙ		9	
T1	--	Keybed Assembly		棚板集成	(V975300)	6	01
T1a	VA127400	Nut	5.0X12 B MFZN2BL	鬼目ナット		2	01
T1b	V6008700	Nut	6 X12.5 B MFZN2BL	鬼目ナット		2	01
T1c	V9001100	Nut	4X12.5 I	鬼目ナット			01
T1d	VA789400	Nut	4X11.5 B MFZN2BL	鬼目ナット			
T2	--	Front Rail Assembly		口棒Ａｓｓ’ｙ	(V907300)	2	
T2a	--	Front Rail		口棒	(V907310)		
T2b	V5263500	Angle, K	1.6 L	アングルＫ			
T2c	V5130600	Holder Assembly, Keyboard		鍵盤前金具Ａｓｓ’ｙ			03
T2d	VN637600	Circuit Board	PL(YCJ)	ＰＬシート	(VN63740)		03
T2d	VU659100	Circuit Board	PL(YMMA)	ＰＬシート	(VU65900)	7	02
T2e	VK099600	Connector Assembly	KRD-KRD 2P-150	ＫＲＤ－ＫＲＤ束線		4	01
T2f	EP030240	Bind Head Tapping Screw-1	3.5X12 MFZN2Y	＋バインドＴＰ１種		4	01
T2g	EP030190	Bind Head Tapping Screw-1	3.5X16 MFZN2Y	＋バインドＴＰ１種			01
T5	EP030190	Bind Head Tapping Screw-1	3.5X16 MFZN2Y	＋バインドＴＰ１種			08
T6	V9073500	Back Top Board Assembly		背面框Ａｓｓ’ｙ			09
T7	V8517300	Side Cover Assembly	LEFT	腕木Ａｓｓ’ｙ（Ｌ）		16	08
T8	V8517500	Side Cover Assembly	RIGHT	腕木Ａｓｓ’ｙ（Ｒ）		4	01
T9	EN630080	Truss Head Tapping Screw-1	3.5X25 MFZN2Y	＋トラスＴＰ　１種		2	
T10	--	Felt	25X25X1	フェルト	(V591600)		03
T11	VN887900	Guide Screw	6X14	ガイドスクリュー			
T12	--	Conductive Adhesive Tape	AL-40 40X20m	導電性粘着テープ	(WA53090)		

*: New Parts（新規部品）　　RANK: Japan only

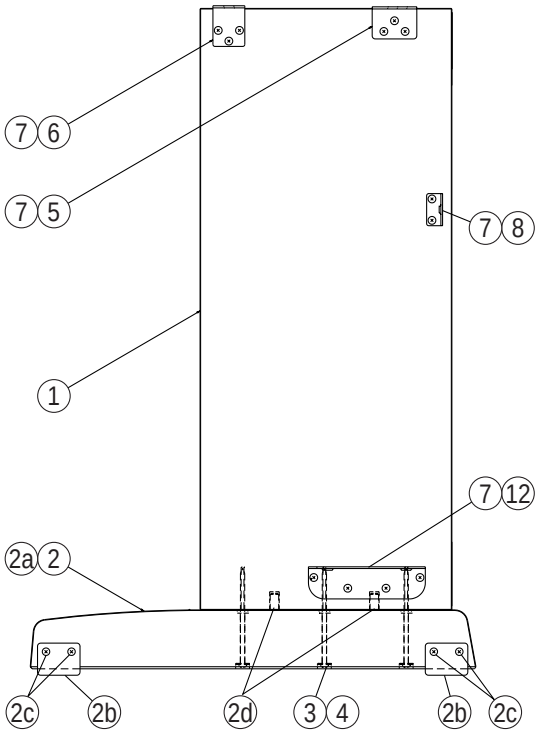
■ SIDE BOARD ASSEMBLY (L, R)

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

● Front view



● Side view



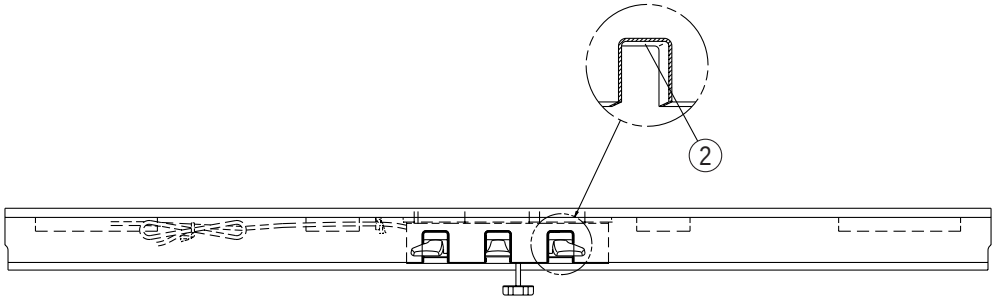
REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		SIDE BOARD ASSEMBLY		側板ＡＳＳ’Ｙ	CLP-115		
	V9742300	Side Board Assembly L	LEFT	側板Ａｓｓ’ｙ（Ｌ）			18
1	**--**	Side Board	LEFT	側板（Ｌ）	(V974270)		
2	**--**	Stand Base Assembly	LEFT	妻土台Ａｓｓ’ｙ（Ｌ）	(V862090)		
2a	**--**	Stand Base	LEFT	妻土台（Ｌ）	(V862110)		
2b	**VR930600**	Foot		スベリ座		2	01
2c	**EM030180**	Flat Head Tapping Screw-1	3.5X20 MFZN2BL	＋皿ＴＰ１種		4	01
2d	**--**	Dowel	8mm 30mm DIA8X30L	ダボ（ＹＭＭＡ）	(V801490)	2	
3	**VK287600**	Flat Washer	4.0X12X1.0 MFZN2Y	平座金みがき丸		3	01
4	**V9761000**	Pan Head Tapping Screw	4.0X90 MFZN2Y	＋ナベＴＰ１種		3	01
5	**VS295500**	Holder, Stand	LEFT	ＳＴ．受け金具Ｌ			05
6	**VN973100**	Angle Bracket, ST		ＳＴ．アングル			04
7	**EP030260**	Bind Head Tapping Screw-1	3.5X16 MFZN2BL	＋バインドＴＰ１種		12	01
8	**VQ958300**	Holder, Back Board		裏板取付金具			05
12	**V9703500**	Angle, PB		ＰＢ金具			02
	V9742400	Side Board Assembly R	RIGHT	側板Ａｓｓ’ｙ（Ｒ）			18
1	**--**	Side Board	RIGHT	側板（Ｒ）	(V974280)		
2	**--**	Stand Base Assembly	RIGHT	妻土台Ａｓｓ’ｙ（Ｒ）	(V862100)		
2a	**--**	Stand Base	RIGHT	妻土台（Ｒ）	(V862120)		
2b	**VR930600**	Foot		スベリ座		2	01
2c	**EM030180**	Flat Head Tapping Screw-1	3.5X20 MFZN2BL	＋皿ＴＰ１種		4	01
2d	**--**	Dowel	8mm 30mm DIA8X30L	ダボ（ＹＭＭＡ）	(V801490)	2	
3	**VK287600**	Flat Washer	4.0X12X1.0 MFZN2Y	平座金みがき丸		3	01
4	**V9761000**	Pan Head Tapping Screw	4.0X90 MFZN2Y	＋ナベＴＰ１種		3	01
5	**VS295600**	Holder, Stand	RIGHT	ＳＴ．受け金具Ｒ			05
6	**VN973100**	Angle Bracket, ST		ＳＴ．アングル			04
7	**EP030260**	Bind Head Tapping Screw-1	3.5X16 MFZN2BL	＋バインドＴＰ１種		12	01
8	**VQ958300**	Holder, Back Board		裏板取付金具			05
12	**V9703500**	Angle, PB		ＰＢ金具			02

*: New Parts（新規部品）

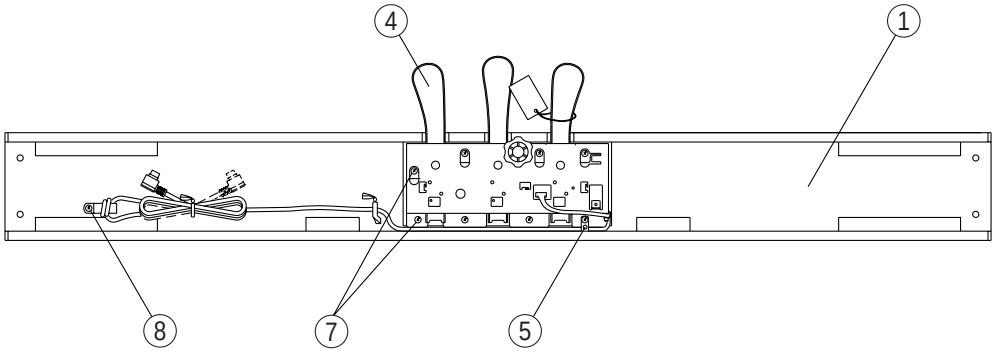
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■ PEDAL BOX ASSEMBLY

• Front view



• Bottom view



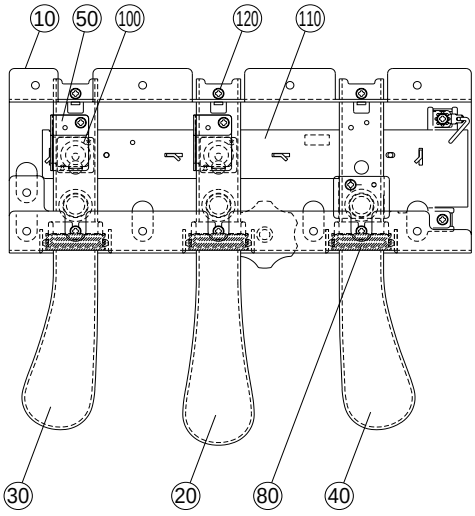
REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		PEDAL BOX ASSEMBLY		ペダルＢＯＸＡＳＳ’Ｙ	CLP-115		
	--	Pedal Box Assembly		ペダルＢｏｘＡｓｓ’ｙ	(V974350)		
1	**V9743700**	Pedal Box Assembly		ペ ダ ル Ｂ Ｏ Ｘ			11
2	**VU464300**	Felt	115X12X2 RE	フ ェ ル ト		3	03
4	**V0053700**	Pedal Assembly	3SW PK-LF	ペダルＡｓｓ’ｙ（Ｉ）			18
5	**CB065520**	Nylon Clamp	NK-3N	ナ イ ロ ン ク ラ ン プ			01
7	**EP040230**	Bind Head Tapping Screw-1	4.0X14 MFZN2Y	＋バインドＴＰ１種		8	01
8	**VU455300**	Truss Head Tapping Screw-1	4.0X12 MFZN2Y	＋トラスＴＰ １種			01

*: New Parts **（新規部品）**

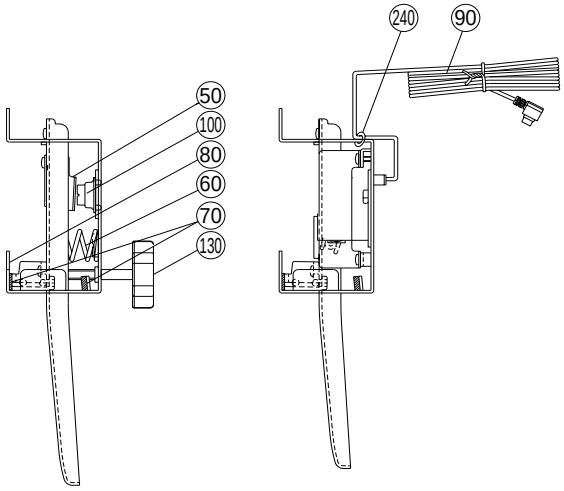
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■ PEDAL ASSEMBLY

• Top view



• Side view



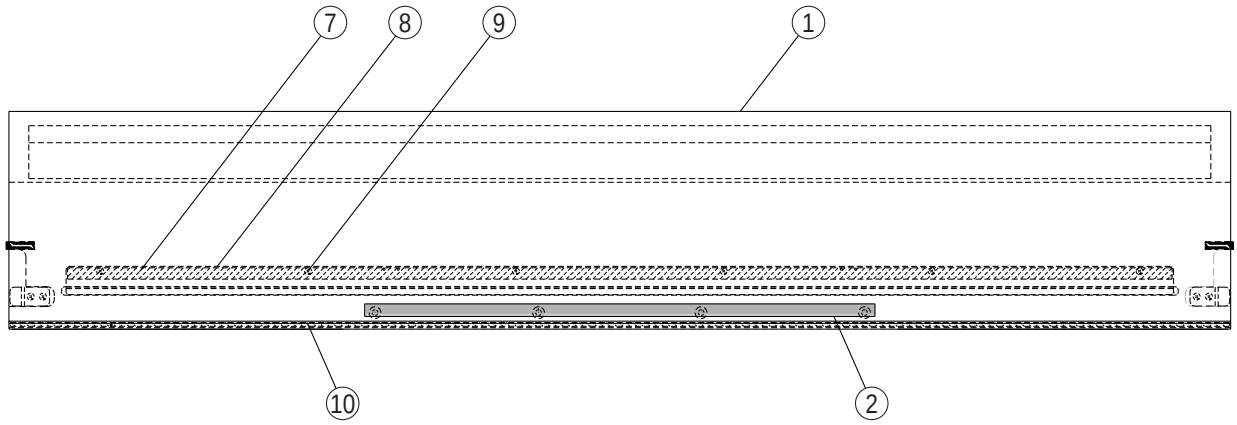
REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		PEDAL ASSEMBLY		ペダルＡＳＳ’Ｙ	CLP-115		
	V0053700	Pedal Assembly	3SW PK-LF	ペダルＡｓｓ’ｙ（Ｉ）			18
10	**VU339700**	Pedal Frame		ペダルフレーム			09
20	**VU362000**	Pedal Piece	CENTER	ペダル本体セット（Ｃ）			08
30	**VU362100**	Pedal Piece	LEFT	ペダル本体セット（Ｌ）			08
40	**VU362200**	Pedal Piece	RIGHT	ペダル本体セット（Ｒ）			08
50	**VV433500**	Actuator	PEDAL	アクチュエータ		3	03
60	**VP348100**	Pedal Spring		ペダルバネ		3	03
70	**VU346500**	Felt	BL	フェルトＰＡ		6	03
80	**VU339800**	Shutter	PEDAL	シャッター		3	03
90	**V0044700**	Connector Assembly	PK-LF	ＰＫケーブル－ＬＦ			08
100	**VU456000**	Rubber Contact	PEDAL	接点ゴムドーム		3	03
110	**V2337300**	Circuit Board	PEDAL(SW)	ＰＥＤＡＬ（ＳＷ）シート	(V233740)		07
120	**EP600190**	Bind Head Tapping Screw-B	3.0X8 MFZN2BL	＋バインドＢタイト		10	01
130	**VU379700**	Adjuster		アジャスター			02
140	**VE968500**	Grease	G-31KA, 1kg	グリス			38
240	**CB069250**	Cord Holder	BK-1	インシュロックタイ		2	01

*: New Parts **（新規部品）**

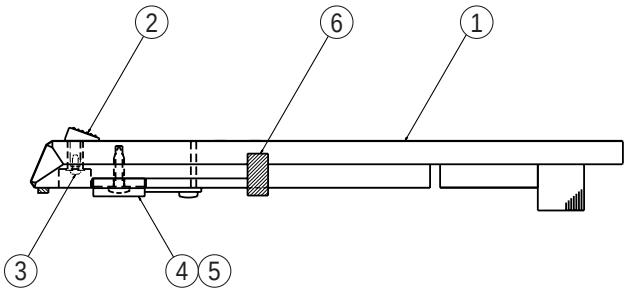
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■ TOP BOARD ASSEMBLY

• Top view



• Side view



REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		TOP BOARD ASSEMBLY		屋根ASS'Y	CLP-115		
	V8513300	Top Board Assembly		屋根Ass'y			10
1	**--**	Top Board Assembly		屋根集成	(V851340)		
2	**V2780400**	Stopper Rail, Music Score		譜面止レールAss'y			05
3	**VZ179200**	PW Head Screw	2.2X5.8 MFZN2Y	＋PWH特殊PCネジ		4	01
4	**VQ485700**	Holder, Top Board		屋根固定金具F		2	03
5	**EP040230**	Bind Head Tapping Screw-1	4.0X14 MFZN2Y	＋バインドTP1種		4	01
6	**VS349600**	Felt	40X8X3	フェルト		2	03
7	**--**	Adhesive Tape	#500 W=12	粘着テープ	(VE36310)		
8	**--**	Keyboard Rail		鍵盤前金具	(V513070)		
9	**EP030190**	Bind Head Tapping Screw-1	3.5X16 MFZN2Y	＋バインドTP1種		6	01
10	**--**	Felt		フェルト	(V991700)		

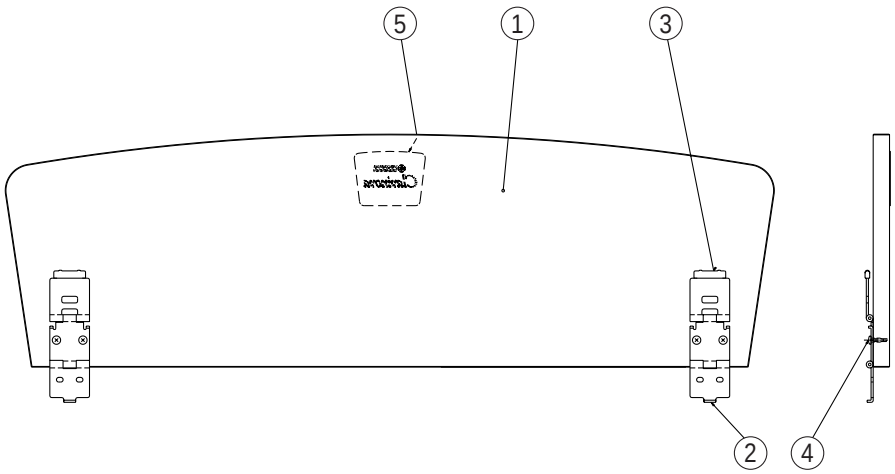
*: New Parts **（新規部品）**

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■ MUSIC REST ASSEMBLY

● **Rear view**

● **Side view**



REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		MUSIC REST ASSEMBLY		譜面板ASS'Y	CLP-115		
	V8514200	Music Rest Assembly		譜面板Ass'y			16
1	**--**	Music Rest		譜面板	(V851430)		
2	**V8437600**	Hinge	1STEP 1.6mm YMMA	譜面蝶番		2	05
3	**VV965900**	Hinge Cap	T=1.6mm	蝶番キャップ		2	03
4	**20404200**	Bind Head Tapping Screw-1	3.0X10 MFZN2BL	＋バインドＴＰ１種		4	
5	**V5782300**	Badge	BRASS	バッジ（クラビノーバ）			05

*: New Parts **（新規部品）**

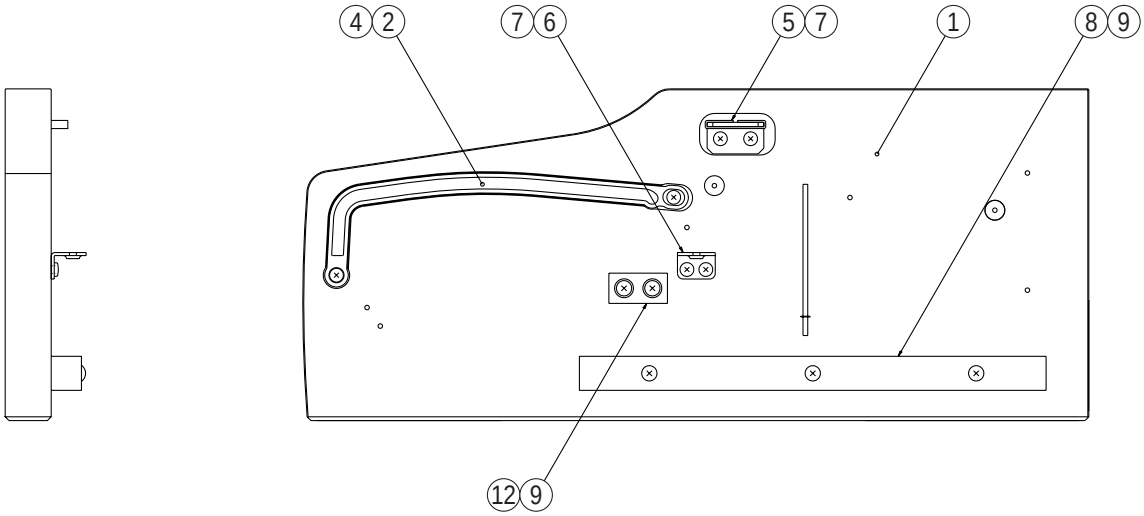
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■ SIDE COVER ASSEMBLY (L, R)

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

• Front view

• Side view



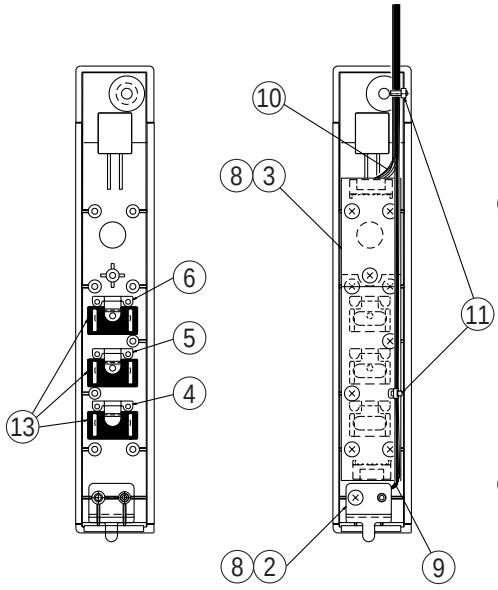
REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		SIDE COVER ASSEMBLY		腕木ＡＳＳ’Ｙ	CLP-115		
	V8517300	Side Cover Assembly	LEFT	腕木Ａｓｓ’ｙ（Ｌ）			09
1	**--**	Side Cover	LEFT	腕　木　（　Ｌ　）	(V851760)		
2	**V8518100**	Guide Rail	LEFT	ガイドレール（Ｌ）			03
4	**EP030240**	Bind Head Tapping Screw-1	3.5X12 MFZN2Y	＋バインドＴＰ１種		2	01
5	**V7534400**	Holder Assembly, Top Board		屋根受け金具Ａｓｓ’ｙ			03
6	**VN887000**	Angle Bracket		受　け　金　具			03
7	**EP030190**	Bind Head Tapping Screw-1	3.5X16 MFZN2Y	＋バインドＴＰ１種		4	01
8	**--**	Cleat T		桟　（　Ｔ　）	(V851960)		
9	**VA076400**	Truss Head Tapping Screw-1	3.5X30 MFZN2Y	＋トラスＴＰ　１種		3	01
	V8517500	Side Cover Assembly	RIGHT	腕木Ａｓｓ’ｙ（Ｒ）			08
1	**--**	Side Cover	RIGHT	腕　木　（　Ｒ　）	(V851770)		
2	**V8518200**	Guide Rail	RIGHT	ガイドレール（Ｒ）			03
4	**EP030240**	Bind Head Tapping Screw-1	3.5X12 MFZN2Y	＋バインドＴＰ１種		2	01
5	**V7534400**	Holder Assembly, Top Board		屋根受け金具Ａｓｓ’ｙ			03
6	**VN887000**	Angle Bracket		受　け　金　具			03
7	**EP030190**	Bind Head Tapping Screw-1	3.5X16 MFZN2Y	＋バインドＴＰ１種		4	01
8	**--**	Cleat T		桟　（　Ｔ　）	(V851960)		
9	**VA076400**	Truss Head Tapping Screw-1	3.5X30 MFZN2Y	＋トラスＴＰ　１種		5	01
12	**--**	Cleat P		桟　（　Ｐ　）	(V968280)		

*: New Parts **（新規部品）**

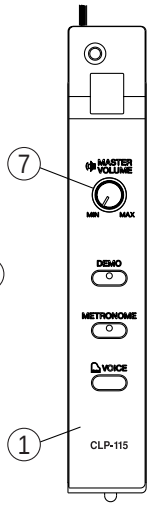
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■ END BLOCK ASSEMBLY (L, R)

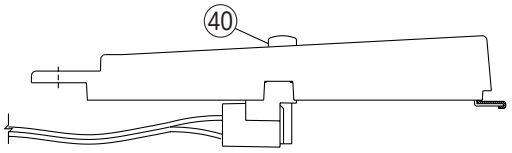
• **Bottom view (L)**



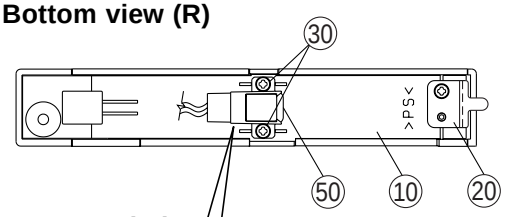
• **Top view (L)**



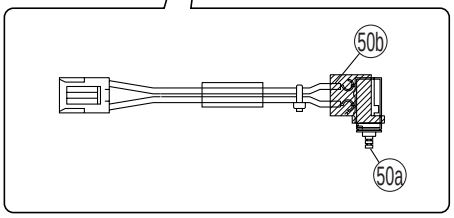
• **Side view (R)**



• **Bottom view (R)**



• **Power Switch Assembly**



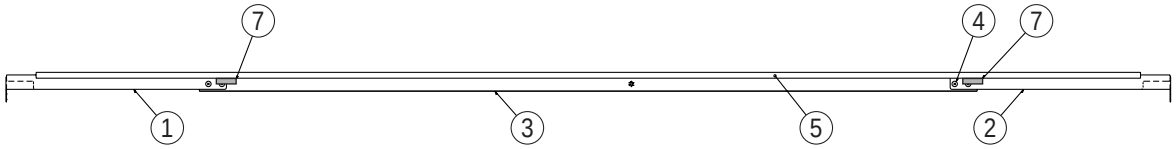
	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
			END BLOCK ASSEMBLY		拍子木ASS'Y	CLP-115		
		--	End Block Assembly	LEFT	拍子木（L）Ass'y	(WB29660)		
*	1	WB296700	End Block Sub Assembly	LEFT	拍子木Lサブ Ass'y			
	2	--	Angle P		アングル P	(V861560)		
	3	V8910400	Circuit Board	PN	PN シート	(V891070)		07
	4	V8065100	Button	B 1	ボタン（B）1	VOICE		04
	5	V8670300	Button	B DG	ボタンBダルグリーン	METRONOME		01
	6	V8948200	Button	B DB LENS	ボタンBレンズツキ	DEMO		01
	7	V2300100	Knob		V R ノブ	MASTER VOLUME		04
	8	EP600250	Bind Head Tapping Screw-B	3.0X8 MFZN2Y	＋バインドBタイト		10	01
	9	--	Connector Assembly	KRD-KRD 7P-920	KRD－KRD束線	(V908660)		
	10	--	Connector Assembly	VOL L=880	VOL束線	(V909180)		
	11	CB069250	Cord Holder	BK-1	インシュロックタイ		2	01
	13	--	Dust Proof Cloth		不織布	(V926650)	3	
		V8733300	End Block Assembly	RIGHT	拍子木（R）Ass'y			08
	10	V9361800	End Block Sub Assembly	RIGHT	拍子木Rサブ Ass'y			03
	20	--	Angle P		アングル P	(V861560)		
	30	EP600250	Bind Head Tapping Screw-B	3.0X8 MFZN2Y	＋バインドBタイト		3	01
	40	VF663400	Knob	BL	プッシュツマミ	POWER		02
⚠	50	VS353700	Power Switch Assembly	PSW	パワーSW束線			08
⚠	50a	VC843500	Push Switch	SDDLB1216A J.U.C.S	プッシュSW	POWER		03
	50b	V5800800	Switch Cover	IV, BL	パワースイッチカバー			01

*: New Parts **（新規部品）**

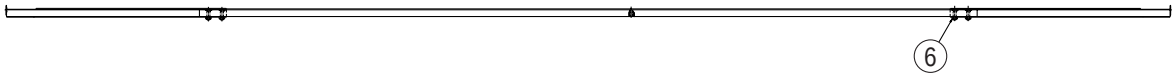
RANK: Japan only

■ PANEL ASSEMBLY

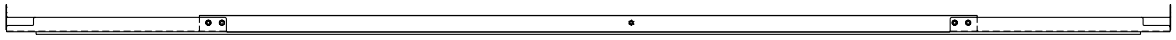
• Bottom view



• Front view



• Top view



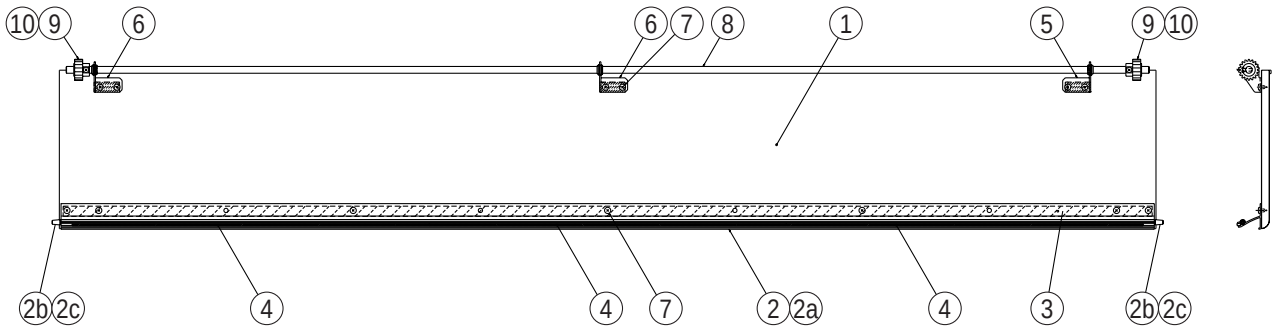
REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		PANEL ASSEMBLY		パネルASS'Y	CLP-115		
	V8614600	Panel Assembly		パネルAss'y			07
1	--	Panel	LEFT	パネル（L）塗装品	(V904060)		
2	--	Panel	RIGHT	パネル（R）塗装品	(V904070)		
3	--	Panel	CENTER	パネル（C）集成	(V955960)		
4	**V5993400**	Flat Head Screw	3.0X12 MFZN2BL	十皿小ネジ		4	01
5	**VT196300**	Felt	MK	フェルト			04
5	**VU638700**	Felt	MK	フェルト			05
6	**ES200030**	Hexagonal Nut	#1 3.0 MFZN2BL	六角ナット		4	01
7	--	Cushion	ZULEN 2X6X20	クッション	(WB56690)	2	

*: New Parts **（新規部品）**

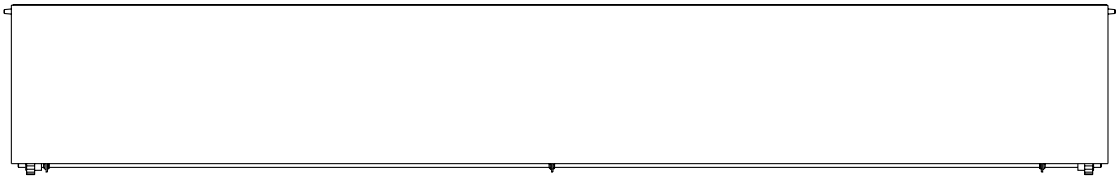
RANK: Japan only

■ KEY COVER ASSEMBLY

• Bottom view



• Top view



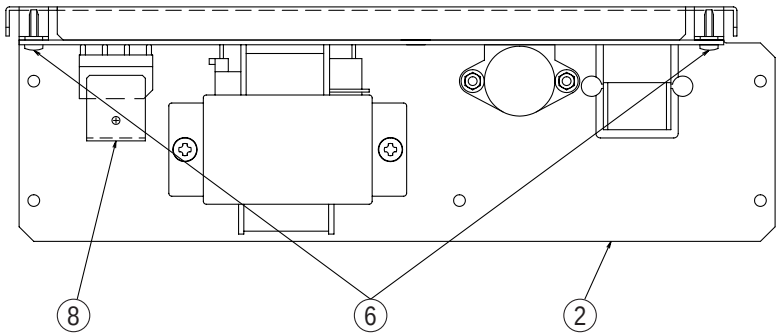
REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		KEY COVER ASSEMBLY		スライド蓋ＡＳＳ’Ｙ	CLP-115		
	V8516800	Key Cover Assembly		スライド蓋Ａｓｓ’ｙ			15
1	**--**	Slide Cover	9 1300	スライド蓋	(V851690)		
2	**V4961900**	Sash Assembly		サッシＦ Ａｓｓ’ｙ			10
2a	**--**	Sash		サッシＦ	(V496430)		
2b	**V4964400**	Guide Pin		ガイドピン		2	
2c	**--**	Spacer		スペーサー	(V549580)	2	
3	**--**	Adhesive Tape	#500 W=12	粘着テープ	(VE36310)		
4	**V9465400**	Sash Cushion	H-32 426X2.5XT4	サッシクッション		3	01
5	**V8901400**	Supporting Holder Assembly	LEFT	支持金具Ａｓｓ’ｙ（Ｌ）			
6	**V8901500**	Supporting Holder Assembly	RIGHT	支持金具Ａｓｓ’ｙ（Ｒ）		2	
7	**VN920900**	Bind Head Tapping Screw-1	3.5X8 MFZN2BL	＋バインドＴＰ１種		13	01
8	**V8517000**	Rod		連動棒			
9	**V9857900**	Gear	M90S NT	ピニオンギヤ		2	
10	**EG330060**	Bind Head Screw	3.0X10 MFZN2Y	＋バインド小ネジ		2	01

*: New Parts **（新規部品）**

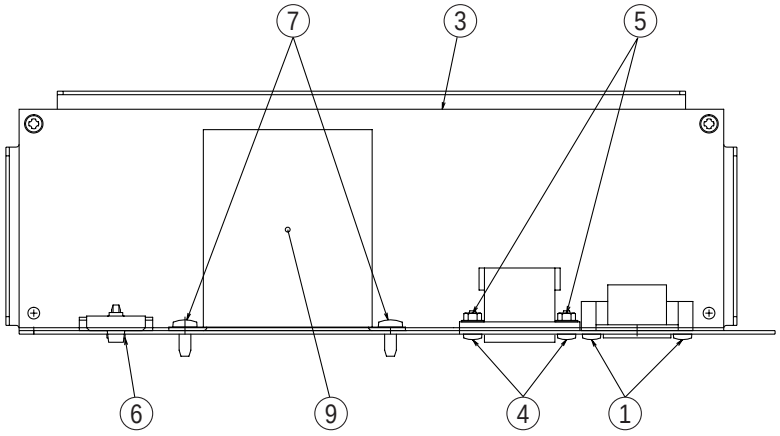
RANK: Japan only

■ POWER SUPPLY UNIT

• Top view



• Front view

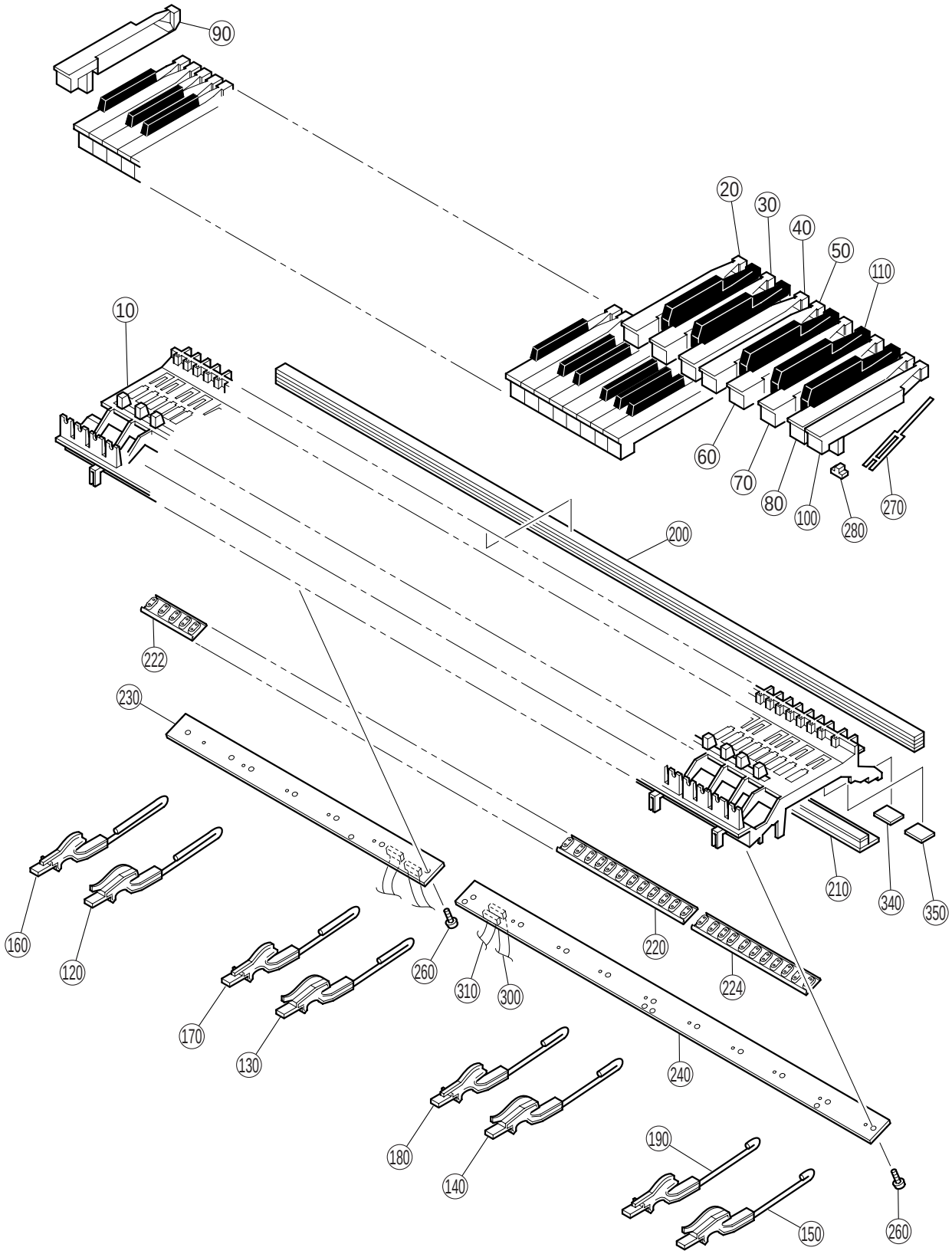


REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		POWER SUPPLY UNIT		電源ユニット	CLP-115		
	V0010400	Power Supply Unit		電源ユニット（E）	E		14
	V0010500	Power Supply Unit		電源ユニット（N）	N		22
	V0010300	Power Supply Unit		電源ユニット（U）	U		14
1	**EP600140**	Bind Head Tapping Screw-B	3.0X10 MFZN2BL	＋バインドBタイト		2	01
2	**VZ958800**	Plate, AC Inlet		ACインレット金具	U,E		07
2	**VZ958900**	Panel, AC Inlet		ACインレット金具印刷品	N		08
3	**V0011000**	Circuit Board	PS	PSシート（E）	E (V001150)		11
3	**V0011100**	Circuit Board	PS	PSシート（N）	N (V001160)		12
3	**V0010800**	Circuit Board	PS	PSシート（U）	U (V001140)		11
4	**EG330320**	Bind Head Screw	3.0X12 MFZN2BL	＋バインド小ネジ	N	2	01
5	**VA211900**	Hexagonal Nut	3.0 MFZN2Y	フランジ付六角ナット	N	2	01
6	**VE683000**	Bind Head Tapping Screw-B	3.0X12 MFZN2Y	＋バインドBタイト		3	01
7	**EP600240**	Bind Head Tapping Screw-B	4.0X10 MFZN2BL	＋バインドBタイト		2	01
8	**VT461100**	Transistor Holder	A	トランジスターホルダーA			03
9	**XU445A00**	Power Transformer	J/UL/CSA A	電源トランス	U		09
9	**XU446A00**	Power Transformer	IEC65 E	電源トランス	E		09
9	**XU447A00**	Power Transformer	N IEC65 E	電源トランス	N		09

*: New Parts（新規部品）

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■ KEYBOARD ASSEMBLY

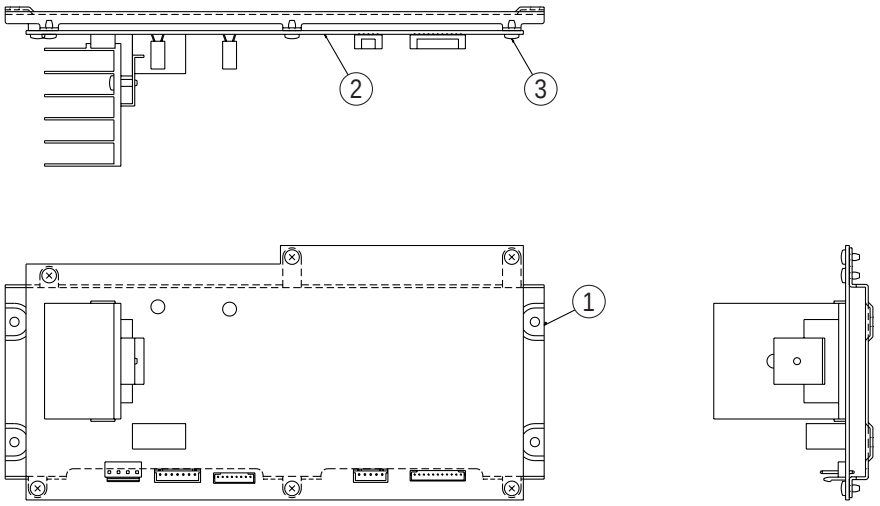


REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		KEYBOARD ASSEMBLY		ＧＨＤ鍵盤ＡＳＳ’Ｙ	CLP-115		
	VZ705400	Keyboard Assembly	A88 K6	ＧＨＤ鍵盤Ａｓｓ’ｙ			63
10	**--**	MK Frame		フレーム８８アウトサート	(VU42210)		
20	**VU101000**	White Key	WH C	白鍵Ｃ		7	05
30	**VU101100**	White Key	WH D	白鍵Ｄ		7	05
40	**VU101200**	White Key	WH E	白鍵Ｅ		7	05
50	**VU101300**	White Key	WH F	白鍵Ｆ		7	05
60	**VU101400**	White Key	WH G	白鍵Ｇ		7	05
70	**VU101500**	White Key	WH A	白鍵Ａ		7	05
80	**VU101600**	White Key	WH B	白鍵Ｂ		8	05
90	**VU101700**	White Key	WH A'	白鍵Ａ’			05
100	**VU101800**	White Key	WH C'	白鍵Ｃ’			05
110	**VU102100**	Black Key	BL	黒鍵		36	05
120	**VY828500**	Hammer Assembly, White Key	W1	ドーム用ハンマーＷ１		13	05
130	**VY828600**	Hammer Assembly, White Key	W2	ドーム用ハンマーＷ２		13	05
140	**VY828700**	Hammer Assembly, White Key	W3	ドーム用ハンマーＷ３		13	05
150	**VY828800**	Hammer Assembly, White Key	W4	ドーム用ハンマーＷ４		13	05
160	**VY828900**	Hammer Assembly, Black Key	B1	ドーム用ハンマーＢ１		9	05
170	**VY829000**	Hammer Assembly, Black Key	B2	ドーム用ハンマーＢ２		9	05
180	**VY829100**	Hammer Assembly, Black Key	B3	ドーム用ハンマーＢ３		9	05
190	**VY829200**	Hammer Assembly, Black Key	B4	ドーム用ハンマーＢ４		9	05
200	**VU342100**	Stopper	1229X12X14.8T	ストッパーＵ８８			09
210	**V7640100**	Stopper Felt	1239.5X28X10.1T	ストッパーＬ８８＿Ｗ			07
220	**VY846700**	Rubber Contact	GH 2M OCT	シーソードームＤ－Ｃ＃	D0-C1#,D1-C2#,D2-C3# D3-C4#,D4-C5#,D5-C6#	6	08
222	**VY846800**	Rubber Contact	GH 2M OCT	シーソードームＡ－Ｃ＃	A-1-C0#		08
224	**VY846900**	Rubber Contact	GH 2M OCT	シーソードームＤ－Ｃ	D6-C7		08
230	**VZ705200**	Circuit Board	GH-D_SW L	ＧＨ－Ｄ＿ＳＷシートＬ			12
240	**VZ705300**	Circuit Board	GH-D_SW H	ＧＨ－Ｄ＿ＳＷシートＨ			13
260	**EP600270**	Bind Head Tapping Screw-P	3.0X10 MFZN2Y	＋バインドＰタイト		17	01
260	**VT413400**	Bind Head Tapping Screw-P	3.0X10 MFZN2	＋バインドＰタイト		17	01
270	**VZ417900**	Spring R	GH WH,BL	スプリング Ｒ		88	03
280	**V2211300**	Rubber 2	GH,GHD,HE	駆動ラバー２		88	03
290	**--**	Grease	G-1006Y	グリス	(V627430)		
300	**VU341800**	Connector Assembly	9P	中継束線ブロック			06
310	**VU341900**	Connector Assembly	12P	中継束線ノート			07
340	**VV467900**	Stopper Support A	35.5 20 *	ストッパーサポートＡ		7	03
350	**VV468100**	Stopper Support B	24 20 -	ストッパーサポートＢ		12	03

*: New Parts **（新規部品）**

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■ A SHEET ASSEMBLY

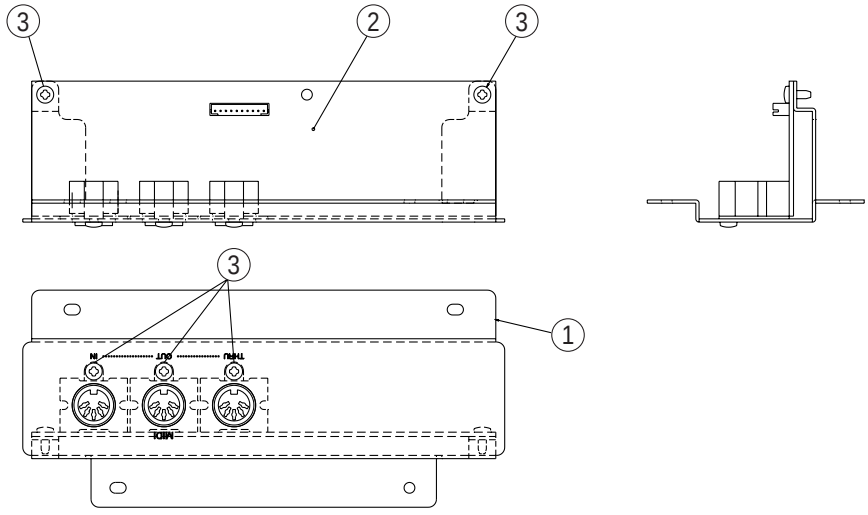


REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		A SHEET ASSEMBLY		Aシートアッシ'Y	CLP-115		
	--	A Sheet Assembly		Aシートアッシ'y	(V907410)		
1	--	Holder, A Sheet		Aシート固定金具	(V906990)		
2	V8910200	Circuit Board	AM	AMシート			14
3	EP600130	Bind Head Tapping Screw-B	3.0X6 MFZN2Y	+バインドBタイト		6	01

*: New Parts **(新規部品)**

RANK: Japan only

■ D-JACK ASSEMBLY

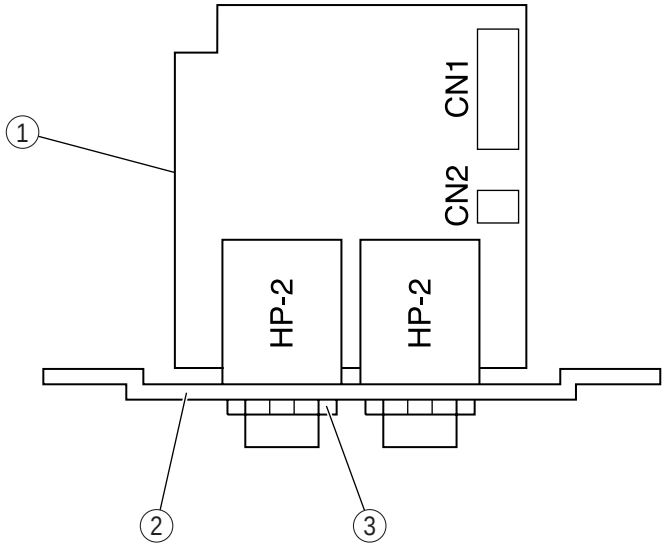


REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		D-JACK ASSEMBLY		Dジャックアッシ'Y	CLP-115		
	--	D-Jack Assembly	D-JACK	Dジャックアッシ'y	(V975480)		
1	V9755000	Angle, D-JACK	3.0X8 MFZN2BL	Dジャック金具印刷品			04
2	V9456500	Circuit Board		D-JACKシート	(V945640)		08
3	EP600190	Bind Head Tapping Screw-B		+バインドBタイト		5	01

*: New Parts **(新規部品)**

RANK: Japan only

■ HEADPHONES JACK ASSEMBLY

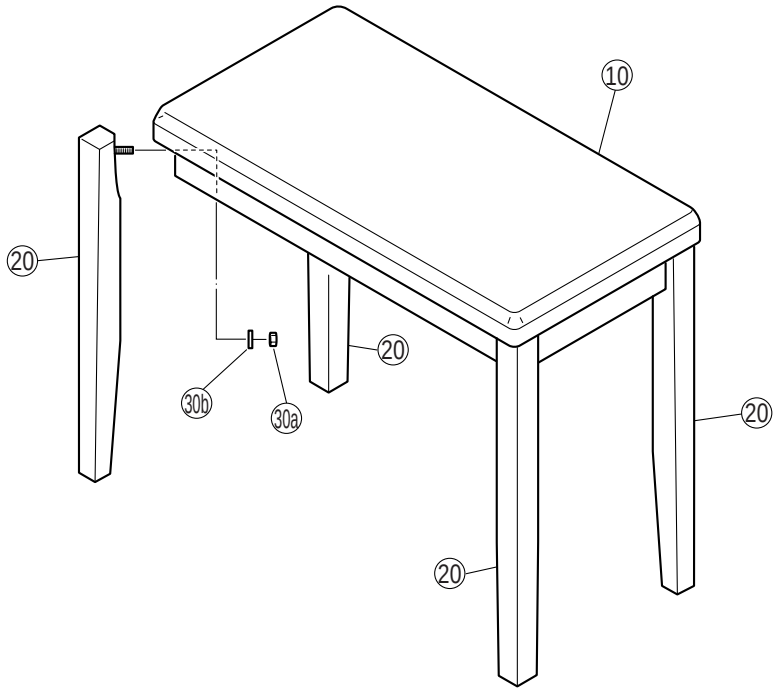


REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		HEADPHONES JACK ASSEMBLY		ＨＰジャックＡＳＳ’Ｙ	CLP-115		
	--	Headphones Jack Assembly		ＨＰジャックＡｓｓ’ｙ	(V969120)		
1	V9626700	Circuit Board	HP	Ｈ Ｐ シ ー ト	(V962660)		
2	VN631800	Angle, Headphone		Ｈ．Ｐ取付金具			04
3	VB508600	Hexagonal Nut	12.0 14X2 MFZN2BL	特殊六角ナット		2	01

*: New Parts（新規部品）

RANK: Japan only

■ BENCH



30 Screw set **（ネジセット）**

x 4 (03761250)

x 4 (03765820)

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		BENCH		椅子	CLP-115		
	--	Bench	BC-100DR	椅子集成	(V553200)		
10	**V5532900**	Bench Board Assembly	BC-100DR	座板Ass'y			16
20	**V8176300**	Leg		脚柱集成		4	
30	**VS530500**	Screw Set	BC-XX	ネジセットAss'y			03
30a	**03761250**	Hexagonal Nut	#1 10.0X1.25 MFZN2	六角ナット		4	01
30b	**03765820**	Spring Washer	#2 10.0 MFZN2Y	バネ座金		4	01

*: New Parts **（新規部品）**

RANK: Japan only

■ ELECTRICAL PARTS

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		ELECTRICAL PARTS		電気部品			
	V8910100	Circuit Board	DM	DMシート	(XW980A0)		20
	V8910200	Circuit Board	AM	AMシート	(XW981B0)		14
	V9456500	Circuit Board	D-JACK	D－JACKシート	(V945640)(X2588B0)		08
	V9456600	Circuit Board	PEDAL	PEDALシート	(V945640)(X2588B0)		03
	VZ705300	Circuit Board	GH-D_SW H	GH－D＿SWシートH	(XT241A0)		13
	VZ705200	Circuit Board	GH-D_SW L	GH－D＿SWシートL	(XT240A0)		12
	V9626700	Circuit Board	HP	HPシート	(XU684A0,XV858A0) (V962660)		
	V2337300	Circuit Board	PEDAL(SW)	PEDAL（SW）シート	(V233740)(XR780B0)		07
	VN637600	Circuit Board	PL(YCJ)	PLシート	(VN63740)(XL151B0)		03
	VU659100	Circuit Board	PL(YMMA)	PLシート	(VU65900)(XR898A0)		03
	V8910400	Circuit Board	PN	PNシート	(V891070)(X2638A0)		07
	V0011000	Circuit Board	PS	PSシート（E）	E (V001150)(XU372E0)		11
	V0011100	Circuit Board	PS	PSシート（N）	N (V001160)(XU372E0)		12
	V0010800	Circuit Board	PS	PSシート（U）	U (V001140)(XU372E0)		11
	V8910100	Circuit Board	DM	DMシート	(XW980A0)		20
C0002	**RD350000**	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
C0003	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0005	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0008	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0011	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0014	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0022	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0026	**UF037100**	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
C0027	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0028	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0029	**UF037100**	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
C0030	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0031	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0032	**UF037470**	Electrolytic Cap. (chip)	47 16V	チップケミコン			01
-0034	**UF037470**	Electrolytic Cap. (chip)	47 16V	チップケミコン			01
C0035	**UF037100**	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
C0036	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0037	**UF246470**	Electrolytic Cap.-BP (chip	4.7 25V	チップBPコン			01
C0038	**UF246470**	Electrolytic Cap.-BP (chip	4.7 25V	チップBPコン			01
C0039	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0040	**UF037100**	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
C0041	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0042	**US062220**	Ceramic Capacitor-SL(chip)	220P 50V J	チップセラ（SL）			01
C0043	**UF037100**	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
C0044	**US061220**	Ceramic Capacitor-CH(chip)	22P 50V J	チップセラ（CH）			01
C0045	**US061220**	Ceramic Capacitor-CH(chip)	22P 50V J	チップセラ（CH）			01
C0046	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ（F）			01
C0047	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0048	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0049	**UF017470**	Electrolytic Cap. (chip)	47 6.3V	チップケミコン			01
C0050	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0052	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0053	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0054	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ（F）			01
C0055	**UF037470**	Electrolytic Cap. (chip)	47 16V	チップケミコン			01
C0056	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0057	**UF037470**	Electrolytic Cap. (chip)	47 16V	チップケミコン			01
C0058	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0059	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0060	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0061	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0062	**UF037100**	Electrolytic Cap. (chip)	10 16V	チップケミコン			01
C0063	**RD350000**	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
C0065	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0066	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0067	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
-0069	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0070	**RD350000**	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
C0071	**RD350000**	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
C0072	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0073	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
CN001	**VB390300**	Connector Base Post	PH- 7P TE	コネクタベースポスト			01

*: New Parts **（新規部品）**

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	CN002	**VB390100**	Connector Base Post	PH- 5P TE	コネクタベースポスト			01
	CN003	**VB390400**	Connector Base Post	PH- 8P TE	コネクタベースポスト			01
	CN004	**VB390400**	Connector Base Post	PH- 8P TE	コネクタベースポスト			01
	CN005	**VB390700**	Connector Base Post	PH-11P TE	コネクタベースポスト			01
	D0003	**VV925900**	Diode	RLS-73 TE-11	ダイオード			01
	IC001	**XU947C00**	IC	HG73C205AFD	IC	SWX00B		09
*	IC003	**X0087A00**	IC	CY7C1021-12VCT	IC	SRAM 1M		
	IC003	**X0088B00**	IC	K6R1016C1D-JC12T00	IC	SRAM 1M		
	IC003	**XZ635A00**	IC	IC61C6416-15K	IC	SRAM 1M		07
	IC003	**X3849A00**	IC	K6R1016C1D-JC10T00	IC	SRAM 1M		
	IC004	**XP867A00**	IC	UPD63200GS-E1	IC	D/A CONVERTER		07
	IC007	**XS516A00**	IC	UPC2933T-E1	IC	REGULATOR +3.3V		03
	IC008	**XJ598A00**	IC	NJM78L05UA	IC	REGULATRO +5V		02
	IC009	**XW792A00**	IC	SN74HC132NSR	IC	NAND		02
	IC009	**XY352A00**	IC	MM74HC132SJX	IC	NAND		02
	IC010	**X2565100**	IC	K3N7C144YB-GC10T00	IC	MASK ROM 64M		07
	R0013	**RD357470**	Carbon Resistor (chip)	47.0K 63M J	チップ抵抗			01
	R0014	**RD357100**	Carbon Resistor (chip)	10.0K 63M J	チップ抵抗			01
	R0015	**RD354470**	Carbon Resistor (chip)	47.0 63M J	チップ抵抗			01
	-0019	**RD354470**	Carbon Resistor (chip)	47.0 63M J	チップ抵抗			01
	R0020	**RD357470**	Carbon Resistor (chip)	47.0K 63M J	チップ抵抗			01
	R0021	**RD357470**	Carbon Resistor (chip)	47.0K 63M J	チップ抵抗			01
	R0022	**RD354470**	Carbon Resistor (chip)	47.0 63M J	チップ抵抗			01
	R0023	**RD357100**	Carbon Resistor (chip)	10.0K 63M J	チップ抵抗			01
	-0025	**RD357100**	Carbon Resistor (chip)	10.0K 63M J	チップ抵抗			01
	R0026	**RD350000**	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	-0028	**RD350000**	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	R0029	**RD354470**	Carbon Resistor (chip)	47.0 63M J	チップ抵抗			01
	R0030	**RD354470**	Carbon Resistor (chip)	47.0 63M J	チップ抵抗			01
	R0032	**RD357470**	Carbon Resistor (chip)	47.0K 63M J	チップ抵抗			01
	R0033	**RD357470**	Carbon Resistor (chip)	47.0K 63M J	チップ抵抗			01
	R0034	**RD354470**	Carbon Resistor (chip)	47.0 63M J	チップ抵抗			01
	R0035	**RD355100**	Carbon Resistor (chip)	100.0 63M J	チップ抵抗			01
	R0036	**RD355330**	Carbon Resistor (chip)	330.0 63M J	チップ抵抗			01
	R0037	**RD357100**	Carbon Resistor (chip)	10.0K 63M J	チップ抵抗			01
	R0038	**RD357100**	Carbon Resistor (chip)	10.0K 63M J	チップ抵抗			01
	R0039	**RD356100**	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
	R0040	**RD357100**	Carbon Resistor (chip)	10.0K 63M J	チップ抵抗			01
	R0041	**RD358470**	Carbon Resistor (chip)	470.0K 63M J	チップ抵抗			01
	R0042	**RD358470**	Carbon Resistor (chip)	470.0K 63M J	チップ抵抗			01
	R0043	**RD355100**	Carbon Resistor (chip)	100.0 63M J	チップ抵抗			01
	-0046	**RD355100**	Carbon Resistor (chip)	100.0 63M J	チップ抵抗			01
	R0047	**RD357220**	Carbon Resistor (chip)	22.0K 63M J	チップ抵抗			01
	R0048	**RD357100**	Carbon Resistor (chip)	10.0K 63M J	チップ抵抗			01
	R0049	**RD357220**	Carbon Resistor (chip)	22.0K 63M J	チップ抵抗			01
	R0050	**RD357100**	Carbon Resistor (chip)	10.0K 63M J	チップ抵抗			01
	R0051	**RD356100**	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
	R0052	**RD356820**	Carbon Resistor (chip)	8.2K 63M J	チップ抵抗			01
	R0053	**RD356270**	Carbon Resistor (chip)	2.7K 63M J	チップ抵抗			01
	R0054	**RD357100**	Carbon Resistor (chip)	10.0K 63M J	チップ抵抗			01
	R0058	**RD354470**	Carbon Resistor (chip)	47.0 63M J	チップ抵抗			01
	-0090	**RD354470**	Carbon Resistor (chip)	47.0 63M J	チップ抵抗			01
	R0091	**RD355220**	Carbon Resistor (chip)	220.0 63M J	チップ抵抗			01
	R0093	**RD354470**	Carbon Resistor (chip)	47.0 63M J	チップ抵抗			01
	R0096	**RD355390**	Carbon Resistor (chip)	390.0 63M J	チップ抵抗			01
	R0097	**RD355390**	Carbon Resistor (chip)	390.0 63M J	チップ抵抗			01
	R0100	**RD354470**	Carbon Resistor (chip)	47.0 63M J	チップ抵抗			01
	R0101	**RD354470**	Carbon Resistor (chip)	47.0 63M J	チップ抵抗			01
	R0102	**RD350000**	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
	TR001	**VV556400**	Transistor	2SC2412K Q,R,S	トランジスタ			01
	TR002	**VJ927200**	Transistor	2SA1162 O,Y	トランジスタ			01
	X0001	**VZ703600**	Quartz Crystal Unit	8.4672M SMD-49	水晶振動子			03
		V8910200	Circuit Board	AM	AMシート	(XW981B0)		14
		--	Wire Harness		MUTE線材	(WB56840)		
		--	Jumper Wire	0.55	ジャンパー線	(VD04170)		
		VE683000	Bind Head Tapping Screw-B	3.0X12 MFZN2Y	＋バインドBタイト			01
	HS	**--**	Heat sink		放熱板 IES53	(V506910)		
	MFA	**V5184100**	Holder, A		パワーアンプ固定金具A			03
	C0007	**UR848100**	Electrolytic Cap.	100.00 25.0V	ケミコン			01

*: New Parts **（新規部品）**

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
C0008	**UR848220**	Electrolytic Cap.	220.00 25.0V	ケミコン			01
C0010	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0013	**UN866100**	Electrolytic Cap.-BP	1.00 50.0V	BPケミコン			01
C0014	**UN866100**	Electrolytic Cap.-BP	1.00 50.0V	BPケミコン			01
C0015	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0016	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0017	**UR848100**	Electrolytic Cap.	100.00 25.0V	ケミコン			01
C0018	**UR828470**	Electrolytic Cap.	470.00 10.0V	ケミコン			01
C0019	**UR828470**	Electrolytic Cap.	470.00 10.0V	ケミコン			01
C0020	**VR169400**	Monolithic Mylar Capacitor	ECQ-V1H684JL3	積層マイラーコン			
C0021	**VR169300**	Monolithic Mylar Capacitor	ECQ-V1H564JL3	積層マイラーコン			01
C0022	**UA354390**	Mylar Capacitor	0.0390 50V J	マイラーコン			01
C0023	**UA354220**	Mylar Capacitor	0.0220 50V J	マイラーコン			
C0024	**UA353560**	Mylar Capacitor	5600P 50V J	マイラーコン			
C0025	**VR169400**	Monolithic Mylar Capacitor	ECQ-V1H684JL3	積層マイラーコン			
C0026	**VR169300**	Monolithic Mylar Capacitor	ECQ-V1H564JL3	積層マイラーコン			01
C0027	**UA354390**	Mylar Capacitor	0.0390 50V J	マイラーコン			01
C0028	**UA354220**	Mylar Capacitor	0.0220 50V J	マイラーコン			
C0029	**UA353560**	Mylar Capacitor	5600P 50V J	マイラーコン			
C0030	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0031	**US062100**	Ceramic Capacitor-SL(chip)	100P 50V J	チップセラ（SL）			01
C0032	**VR167100**	Monolithic Mylar Capacitor	ECQ-V1H184JLW	積層マイラーコン			01
C0033	**UA354220**	Mylar Capacitor	0.0220 50V J	マイラーコン			
C0034	**UA354680**	Mylar Capacitor	0.0680 50V J	マイラーコン			01
C0035	**UA354390**	Mylar Capacitor	0.0390 50V J	マイラーコン			01
C0036	**UA653180**	Mylar Capacitor	1800P 50V J	マイラーコン			01
C0037	**VR167100**	Monolithic Mylar Capacitor	ECQ-V1H184JLW	積層マイラーコン			01
C0038	**UA354220**	Mylar Capacitor	0.0220 50V J	マイラーコン			
C0039	**UA354680**	Mylar Capacitor	0.0680 50V J	マイラーコン			01
C0040	**UA354390**	Mylar Capacitor	0.0390 50V J	マイラーコン			01
C0041	**UA653180**	Mylar Capacitor	1800P 50V J	マイラーコン			01
C0045	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0046	**UR837470**	Electrolytic Cap.	47.00 16.0V	ケミコン			01
C0047	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0048	**UR837470**	Electrolytic Cap.	47.00 16.0V	ケミコン			01
C0049	**US062470**	Ceramic Capacitor-SL(chip)	470P 50V J	チップセラ（SL）			01
C0050	**US062470**	Ceramic Capacitor-SL(chip)	470P 50V J	チップセラ（SL）			01
C0051	**UR866100**	Electrolytic Cap.	1.00 50.0V	ケミコン			01
C0052	**UR866100**	Electrolytic Cap.	1.00 50.0V	ケミコン			01
C0058	**VE327200**	Monolithic Mylar Capacitor	1.0 50V J	積層マイラーコン			02
C0058	**VU838100**	Monolithic Mylar Capacitor	1.0000 50V J	積層マイラーコン			
C0059	**VE327200**	Monolithic Mylar Capacitor	1.0 50V J	積層マイラーコン			02
C0059	**VU838100**	Monolithic Mylar Capacitor	1.0000 50V J	積層マイラーコン			
C0060	**US063100**	Ceramic Capacitor-B (chip)	1000P 50V K	チップセラ（B）			01
C0061	**US063100**	Ceramic Capacitor-B (chip)	1000P 50V K	チップセラ（B）			01
C0062	**UR837220**	Electrolytic Cap.	22.00 16.0V	ケミコン			01
C0063	**UR837220**	Electrolytic Cap.	22.00 16.0V	ケミコン			01
C0064	**UR848220**	Electrolytic Cap.	220.00 25.0V	ケミコン			01
C0065	**UR847470**	Electrolytic Cap.	47.00 25.0V	ケミコン			01
C0066	**US035100**	Ceramic Capacitor-B (chip)	0.1000 16V K	チップセラ（B）			01
-0073	**US035100**	Ceramic Capacitor-B (chip)	0.1000 16V K	チップセラ（B）			01
C0074	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ（F）			01
C0075	**US135100**	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ（F）			01
C0076	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
C0077	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（B）			01
CN001	**LB918050**	Base Post Connector	XH 5P TE	ベーススツキポスト			01
CN002	**VB390700**	Connector Base Post	PH-11P TE	コネクタベースポスト			01
CN003	**LB932040**	Base Post Connector	VH- 4P TE	ベースポスト			01
CN004	**LB918070**	Base Post Connector	XH 7P TE	ベーススツキポスト			01
CN005	**VB390400**	Connector Base Post	PH- 8P TE	コネクタベースポスト			01
D0002	**VV925900**	Diode	RLS-73 TE-11	ダイオード			01
IC001	**XU387A00**	IC	UPC24M12AHF	IC	REGULATOR +12V		03
IC002	**XR925A00**	IC	SI-8401L	IC	REGULATOR +5V 0.5A		05
IC003	**XU131A00**	IC	TA8233H	IC	POWER AMP 30Wx2 BTL		06
IC004	**XT773A00**	IC	M5227FP	IC	5 BANDS GRAPHIC EQUALIZER		03
IC005	**XT773A00**	IC	M5227FP	IC	5 BANDS GRAPHIC EQUALIZER		03
IC007	**XF291A00**	IC	UPC4570G2	IC	OP AMP		03
R0007	**RD356680**	Carbon Resistor (chip)	6.8K 63M J	チップ抵抗			01
R0008	**RD356680**	Carbon Resistor (chip)	6.8K 63M J	チップ抵抗			01
R0009	**RD357330**	Carbon Resistor (chip)	33.0K 63M J	チップ抵抗			01

*: New Parts **（新規部品）**

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
R0010	**RD357330**	Carbon Resistor (chip)	33.0K 63M J	チップ抵抗			01
R0011	**RD356470**	Carbon Resistor (chip)	4.7K 63M J	チップ抵抗			01
R0012	**RD356470**	Carbon Resistor (chip)	4.7K 63M J	チップ抵抗			01
R0013	**HF457180**	Carbon Resistor	18.0K 1/4 J	カーボン抵抗			01
R0014	**HF455180**	Carbon Resistor	180.0 1/4 J	カーボン抵抗			01
R0015	**HF456270**	Carbon Resistor	2.7K 1/4 J	カーボン抵抗			01
R0016	**HF456150**	Carbon Resistor	1.5K 1/4 J	カーボン抵抗			01
R0017	**HF457180**	Carbon Resistor	18.0K 1/4 J	カーボン抵抗			01
R0018	**HF457180**	Carbon Resistor	18.0K 1/4 J	カーボン抵抗			01
R0019	**HF455180**	Carbon Resistor	180.0 1/4 J	カーボン抵抗			01
R0020	**HF456270**	Carbon Resistor	2.7K 1/4 J	カーボン抵抗			01
R0021	**HF456150**	Carbon Resistor	1.5K 1/4 J	カーボン抵抗			01
R0022	**HF457180**	Carbon Resistor	18.0K 1/4 J	カーボン抵抗			01
R0023	**HF456180**	Carbon Resistor	1.8K 1/4 J	カーボン抵抗			01
R0024	**HF457150**	Carbon Resistor	15.0K 1/4 J	カーボン抵抗			01
R0025	**HF457220**	Carbon Resistor	22.0K 1/4 J	カーボン抵抗			01
R0026	**HF457180**	Carbon Resistor	18.0K 1/4 J	カーボン抵抗			01
R0027	**HF456100**	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
R0028	**HF456180**	Carbon Resistor	1.8K 1/4 J	カーボン抵抗			01
R0029	**HF457150**	Carbon Resistor	15.0K 1/4 J	カーボン抵抗			01
R0030	**HF457220**	Carbon Resistor	22.0K 1/4 J	カーボン抵抗			01
R0031	**HF457180**	Carbon Resistor	18.0K 1/4 J	カーボン抵抗			01
R0032	**HF456100**	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
R0033	**RD356330**	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R0034	**RD356330**	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R0039	**RD356560**	Carbon Resistor (chip)	5.6K 63M J	チップ抵抗			01
R0040	**RD356560**	Carbon Resistor (chip)	5.6K 63M J	チップ抵抗			01
R0041	**RD356100**	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
R0042	**RD356100**	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
R0043	**RD355560**	Carbon Resistor (chip)	560.0 63M J	チップ抵抗			01
R0044	**RD355560**	Carbon Resistor (chip)	560.0 63M J	チップ抵抗			01
R0046	**HF453220**	Carbon Resistor	2.2 1/4 J	カーボン抵抗			01
-0049	**HF453220**	Carbon Resistor	2.2 1/4 J	カーボン抵抗			01
R0050	**RD356470**	Carbon Resistor (chip)	4.7K 63M J	チップ抵抗			01
R0051	**RD356560**	Carbon Resistor (chip)	5.6K 63M J	チップ抵抗			01
R0052	**RD356560**	Carbon Resistor (chip)	5.6K 63M J	チップ抵抗			01
R0053	**RD356330**	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗			01
R0054	**RD357330**	Carbon Resistor (chip)	33.0K 63M J	チップ抵抗			01
R0064	**HF455560**	Carbon Resistor	560.0 1/4 J	カーボン抵抗			01
R0065	**HF455560**	Carbon Resistor	560.0 1/4 J	カーボン抵抗			01
RY002	**VK881200**	Relay	DC G5Z-2A-YA	リレー　１２Ｖ			04
TR001	**VV556400**	Transistor	2SC2412K Q,R,S	トランジスタ			01
	V9456500	Circuit Board	D-JACK	Ｄ－ＪＡＣＫシート	(V945640)(X2588B0)		08
	V9456600	Circuit Board	PEDAL	ＰＥＤＡＬシート	(V945640)(X2588B0)		03
C0002	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（Ｂ）			01
C0005	**UR837100**	Electrolytic Cap.	10.00 16.0V	ケミコン			01
C0010	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（Ｂ）			01
C0013	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（Ｂ）			01
C0021	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（Ｂ）			01
C0022	**US064100**	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ（Ｂ）			01
CN001	**VB390400**	Connector Base Post	PH- 8P TE	コネクタベースポスト			01
CN002	**VB390100**	Connector Base Post	PH- 5P TE	コネクタベースポスト			01
D0001	**VV925900**	Diode	RLS-73 TE-11	ダイオード			01
IC003	**VD473200**	Photo Coupler	6N137	フォトカプラ			05
JK001	**VT202500**	DIN Connector	5P YKF51-50	ＤＩＮコネクタ	MIDI IN		01
JK002	**VT202500**	DIN Connector	5P YKF51-50	ＤＩＮコネクタ	MIDI OUT		01
JK003	**VT202500**	DIN Connector	5P YKF51-50	ＤＩＮコネクタ	MIDI THRU		01
JK005	**V4874800**	DIN Connector	DIN6P MD-S613	複合コネクタ	PEDAL		02
L0003	**VY657200**	Chip Inductance	600 BK1608HM601	チップインダクタ			01
L0004	**RD350000**	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
L0005	**VY657200**	Chip Inductance	600 BK1608HM601	チップインダクタ			01
-0012	**VY657200**	Chip Inductance	600 BK1608HM601	チップインダクタ			01
R0012	**RD356100**	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗			01
R0016	**RD357100**	Carbon Resistor (chip)	10.0K 63M J	チップ抵抗			01
R0017	**RD357220**	Carbon Resistor (chip)	22.0K 63M J	チップ抵抗			01
R0018	**RD357220**	Carbon Resistor (chip)	22.0K 63M J	チップ抵抗			01
R0019	**RD357100**	Carbon Resistor (chip)	10.0K 63M J	チップ抵抗			01
R0020	**RD356150**	Carbon Resistor (chip)	1.5K 63M J	チップ抵抗			01
R0022	**RD357220**	Carbon Resistor (chip)	22.0K 63M J	チップ抵抗			01

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REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
R0023	**RD356150**	Carbon Resistor (chip)	1.5K 63M J	チップ抵抗			01
R0024	**RD355220**	Carbon Resistor (chip)	220.0 63M J	チップ抵抗			01
R0025	**RD154470**	Carbon Resistor (chip)	47.0 1/4 J	チップ抵抗			01
-0028	**RD154470**	Carbon Resistor (chip)	47.0 1/4 J	チップ抵抗			01
R0033	**RD350000**	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
-0035	**RD350000**	Carbon Resistor (chip)	0 63M J	チップ抵抗			01
TR001	**VV556400**	Transistor	2SC2412K Q,R,S	トランジスタ			01
-004	**VV556400**	Transistor	2SC2412K Q,R,S	トランジスタ			01
	VZ705300	Circuit Board	GH-D_SW H	GH－D＿SWシートH	(XT241A0)		13
CN1	**VB390500**	Connector Base Post	PH- 9P TE	コネクタベースポスト			03
CN2	**VB390800**	Connector Base Post	PH-12P TE	コネクタベースポスト			01
D1	**VB941200**	Diode	1SS133,1SS176	ダイオード			01
-108	**VB941200**	Diode	1SS133,1SS176	ダイオード			01
	--	Dust Proof Cloth		不織布	(VU45980)		
	VZ705200	Circuit Board	GH-D_SW L	GH－D＿SWシートL	(XT240A0)		12
	XR632A00	IC	YMZ702-D	KSN2	KSN2		09
	--	Dust Proof Cloth		不織布	(VU45960)		
C1	**FG644100**	Electrolytic Cap.	0.0100 50V Z	セラコン（F）			01
-3	**FG644100**	Electrolytic Cap.	0.0100 50V Z	セラコン（F）			01
C5	**VF760000**	Electrolytic Cap.-KS	100.00 10.0V	ケミコンKS			01
CL1	**VI653000**	Ceramic Resonator	CSTLA4M00G58Y02-B0	セラミック振動子			01
CN1	**VB390400**	Connector Base Post	PH- 8P TE	コネクタベースポスト			01
CN2	**VB390500**	Connector Base Post	PH- 9P TE	コネクタベースポスト			03
CN3	**VB390800**	Connector Base Post	PH-12P TE	コネクタベースポスト			01
D5	**VB941200**	Diode	1SS133,1SS176	ダイオード			01
-72	**VB941200**	Diode	1SS133,1SS176	ダイオード			01
J1	**--**	Jumper Wire	0.55	ジャンパー線	(VD04170)		
J2	**--**	Jumper Wire	0.55	ジャンパー線	(VD04170)		
R1	**HF759100**	Carbon Resistor	1.0M 1/4 J	カーボン抵抗			01
R2	**HF755100**	Carbon Resistor	100.0 1/4 J	カーボン抵抗			01
R3	**HF755100**	Carbon Resistor	100.0 1/4 J	カーボン抵抗			01
R4	**HF756100**	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
RA1	**VU483500**	Resistor Array	RGLD12X103J	抵抗アレイ			01
	V9626700	Circuit Board	HP	HPシート	(XU684A0,XV858A0) (V962660)		
C0001	**--**	Jumper Wire	0.55	ジャンパー線	(VD04170)		
C0002	**UN866220**	Electrolytic Cap.-BP	2.20 50.0V	BPケミコン			01
-0005	**UN866220**	Electrolytic Cap.-BP	2.20 50.0V	BPケミコン			01
C0006	**UN838100**	Electrolytic Cap.-BP	100.00 16.0V	BPケミコン			01
C0007	**UN838100**	Electrolytic Cap.-BP	100.00 16.0V	BPケミコン			01
CN001	**LB919070**	Base Post Connector	XH 7P SE	ベースツキポスト			01
CN002	**VB858100**	Connector Base Post	PH- 2P SE	コネクタベースポスト			01
FL001	**VB971100**	Coil	FL5R200QN	コイル 200U			01
FL002	**VB971100**	Coil	FL5R200QN	コイル 200U			01
FL003	**GE300670**	Ferrite Bead	BL02RN2-R62T4	フェライトビーズ			02
FL003	**VB871100**	Ferrite Bead	BL02RN2-R62	フェライトビーズ			01
FL004	**VB971100**	Coil	FL5R200QN	コイル 200U			01
FL005	**VB971100**	Coil	FL5R200QN	コイル 200U			01
FL006	**GE300670**	Ferrite Bead	BL02RN2-R62T4	フェライトビーズ			02
FL006	**VB871100**	Ferrite Bead	BL02RN2-R62	フェライトビーズ			01
HP001	**LB101870**	Phone Jack	YKB21-5006	ホーンコネクタ	PHONES		03
HP002	**LB101870**	Phone Jack	YKB21-5006	ホーンコネクタ	PHONES		03
R0001	**VC731500**	Metal Oxide Film Resistor	120.0 1W J	酸化金属被膜抵抗			01
-0004	**VC731500**	Metal Oxide Film Resistor	120.0 1W J	酸化金属被膜抵抗			01
R0005	**HF455390**	Carbon Resistor	390.0 1/4 J	カーボン抵抗			01
R0006	**HF455390**	Carbon Resistor	390.0 1/4 J	カーボン抵抗			01
	V2337300	Circuit Board	PEDAL(SW)	PEDAL（SW）シート	(V233740)(XR780B0)		07
	--	Jumper Wire	0.55	ジャンパー線	(VD04170)		
CN1	**VB390200**	Connector Base Post	PH- 6P TE	コネクタベースポスト			01
F.GND	**--**	GND Wire	L=30	アース束線	(VZ01760)		
	VN637600	Circuit Board	PL(YCJ)	PLシート	(VN63740)(XL151B0)		03
	VB858100	Connector Base Post	PH- 2P SE	コネクタベースポスト			01
	VD180000	LED	SLZ-190B-03 RE	LED	POWER		01
	VU659100	Circuit Board	PL(YMMA)	PLシート	(VU65900)(XR898A0)		03

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REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	VB858100	Connector Base Post	PH- 2P SE	コネクタベースポスト			01
	VD180000	LED	SLZ-190B-03 RE	LED	POWER		01
	V8910400	Circuit Board	PN	PNシート	(V891070)(X2638A0)		07
CN001	VB858600	Connector Base Post	PH- 7P SE	コネクタベースポスト			01
CN002	VB858700	Connector Base Post	PH- 8P SE	コネクタベースポスト			01
LD001	VU067800	LED	SEL6210S-TP5 RE	LED	DEMO		01
LD002	VU067800	LED	SEL6210S-TP5 RE	LED	METRONOME		01
SW001	VV439800	Tact Switch	SKQNAJ	タクトSW	DEMO		01
SW002	VV439800	Tact Switch	SKQNAJ	タクトSW	METRONOME		01
SW003	VV439800	Tact Switch	SKQNAJ	タクトSW	VOICE		01
VR001	V0075800	Rotary Variable Resistor	A10.0K RK14K1240	二連ロータリーVR	MASTER VOLUME		03
	V0011000	Circuit Board	PS	PSシート（E）	E (V001150)(XU372E0)		11
	V0011100	Circuit Board	PS	PSシート（N）	N (V001160)(XU372E0)		12
	V0010800	Circuit Board	PS	PSシート（U）	U (V001140)(XU372E0)		11
	VT308100	AC Inlet	CCT9302-0101M	ACインレット 2P	E,N		02
	VT308200	AC Inlet	CCT9302-0201	ACインレット 2P	U		02
	--	Jumper Wire	0.55	ジャンパー線	(VD04170)		
	LB201530	Fuse Holder	PC-PH1	ヒューズホルダ	U,E		01
	LB201530	Fuse Holder	PC-PH1	ヒューズホルダ	N		01
	VT139600	Voltage Selector	M1684-E	電圧切替器	N		04
⚠	C1 FI383470	Capacitor	4700P 400V U.C.S.V	規格認定コン			01
⚠	C1 VY675100	Capacitor	4700P 250V J.U.C.S	規格認定コン KH			01
⚠	C2 FI383470	Capacitor	4700P 400V U.C.S.V	規格認定コン			01
⚠	C2 VY675100	Capacitor	4700P 250V J.U.C.S	規格認定コン KH			01
⚠	C3 VY675000	Capacitor	0.010 250V J.U.C.S	規格認定コン KH			01
⚠	C3 VT575200	Capacitor	0.01 400V J.U.C.S	規格認定コン KC			01
	C4 UA654470	Mylar Capacitor	0.0470 50V J	マイラーコン			01
	C5 V2126200	Electrolytic Cap.	10000 25.0V	ケミコン			04
	C6 UJ866330	Electrolytic Cap.	3.30 50.0V	ケミコン			01
	CN1 LB932030	Base Post Connector	VH- 3P TE	ベースポスト			01
	CN2 LB918050	Base Post Connector	XH 5P TE	ベーストツキポスト			01
	D1 V7803100	Diode	1T4-T/A52	ダイオード			
	D1 V9362200	Diode	1T4-T/A26	ダイオード			
	D1 VB481900	Diode	11ES4	ダイオード			01
	D1 VF195600	Diode	11ES4 TA1	ダイオード			01
	D2 V7803100	Diode	1T4-T/A52	ダイオード			
	D2 V9362200	Diode	1T4-T/A26	ダイオード			
	D2 VB481900	Diode	11ES4	ダイオード			01
	D2 VF195600	Diode	11ES4 TA1	ダイオード			01
	DB1 VN011300	Diode Stack	D3SBA20 4.0A 200V	ダイオードスタック			03
⚠	F1 KB003040	Fuse	1.00A S	ヒューズ	E		01
⚠	F1 KB003570	Fuse	2.00A JU	ヒューズ	U,N		01
⚠	F2 KB003040	Fuse	1.00A S	ヒューズ	N		01
⚠	F3 KB003240	Fuse	5.00A S	ヒューズ	E,N		01
⚠	F3 KB003630	Fuse	5.00A JU	ヒューズ	U		01
	J1 --	Jumper Wire	0.55	ジャンパー線	E (VD04170)		
	J2 --	Jumper Wire	0.55	ジャンパー線	U (VD04170)		
⚠	L1 VF790900	Coil	SU10V-D20010	コイル 10U			03
	R1 HF456100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
	R1 HF756100	Carbon Resistor	1.0K 1/4 J	カーボン抵抗			01
	V0010400	Power Supply Unit		電源ユニット（E）	E		14
	V0010500	Power Supply Unit		電源ユニット（N）	N		22
	V0010300	Power Supply Unit		電源ユニット（U）	U		14
	X0657A00	Speaker	13.0cm 4ohm 10W	スピーカ		2	06
	VU456000	Rubber Contact	PEDAL	接点ゴムドーム		3	03
⚠	VC843500	Push Switch	SDDLB1216A J.U.C.S	プッシュSW	POWER		03
	XU445A00	Power Transformer	J/UL/CSA A	電源トランス	U		09
	XU446A00	Power Transformer	IEC65 E	電源トランス	E		09
	XU447A00	Power Transformer	N IEC65 E	電源トランス	N		09
	VY846700	Rubber Contact	GH 2M OCT	シーソードームD－C#	D0-C1#,D1-C2#,D2-C3#,D3-C4#,D4-C5#,D5-C6#	6	08
	VY846800	Rubber Contact	GH 2M OCT	シーソードームA－C#	A-1-C0#		08
	VY846900	Rubber Contact	GH 2M OCT	シーソードームD－C	D6-C7		08

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