

HP704

SERVICE NOTES *Issued by RJA*

Roland Digital Piano



HP704-WH, KSH704/2WH



HP704-LA, KSH704/2LA



HP704-DR, KSH704/2DR



HP704-CH, KSH704/2CH

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Table of Contents

Cautionary Notes	2
Specifications	3
Contents of KSH704/2	5
Location of Controls	6
Location of Controls Parts List	7
Exploded View (All)	8
Exploded View (Fig. A)	10
Exploded View (Fig. A) Parts List	11
Plain View (Fig. A) (1)	12
Plain View (Fig. A) (1) Parts List	13
Plain View (Fig. A) (2)	14
Plain View (Fig. A) (2) Parts List	15
Exploded View (Fig. B)	16
Exploded View (Fig. B) Parts List	17
Plain View (Fig. B)	18
Plain View (Fig. B) Parts List	19
Exploded View (Fig. C)	20
Exploded View (Fig. C) Parts List	21
Exploded View (Fig. D)	22
Exploded View (Fig. D) Parts List	23
Exploded View (Fig. E)	24
Exploded View (Fig. E) Parts List	25
Exploded View (Fig. F)	26
Exploded View (Fig. F) Parts List	27
Exploded View (Fig. G)	28
Exploded View (Fig. G) Parts List	28
Exploded View (Fig. H)	29
Exploded View (Fig. H) Parts List	29
Plain View (1) (Fig. H)	30
Plain View (2) (Fig. H)	31
Keyboard Parts List (PHA-50B)	32
Greasing Point	33
Disassembly Procedure	34
Important Notes on Assembly	38
Block Diagram	40
Wiring Diagram	42
Parts List (HP704)	44
Parts List (KSH704/2)	47
Turning On and Off the Power	48
Verifying the Version	48
Data Backup and Restore Operations	48
Performing a Factory Reset	49
Updating the System	49
Test Mode	49

Cautionary Notes

Before beginning the procedure, please read through this document. The matters described may differ according to the model.

Back Up User Data!

User data may be lost during the course of the procedure. Refer to **Data Backup and Restore Operations** (p. 48) in the Service Notes and save the data. After completing the procedure, restore the backed-up data to the product.

Part Replacement

When replacing components near the power-supply circuit or a heat-generating circuit (such as a circuit provided with a heat sink or including a cement resistor), carry out the procedure according to the instructions with respect to the part number, direction, and attachment position (mounting so as to leave an air gap between the component and the circuit board, etc.).

Parts List

A component whose part code is ***** will not be supplied as a service part because one of the following reasons applies.

- Because it is supplied as an assembled part (under a different part code).
- Because a number of circuit boards are grouped together and supplied as a single circuit board (under a different part code).
- Because supply is prohibited due to copyright restrictions.
- Because reissuance is restricted.
- Because the part is made to order (at current market price).
- Because it is carried in electronic data on the Roland web site.
- Because it is a package or an accessory irrelevant to the function maintenance of the main body.
- Because it can be replaced with an article on the market. (battery or etc.)
- Because it is sold as a product.

Specifications

Roland HP704: Digital Piano

Sound Generator

Piano Sound

Piano Sound: SuperNATURAL Piano Modeling

Max. Polyphony

Piano: Limitless (solo playing using 'Piano' category tones)

Other: 384

Tones

US: Total 320 Tones

Other: Total 324 Tones

Keyboard

PHA-50 Keyboard: Wood and Plastic Hybrid Structure, with Escapement and Ebony/Ivory Feel (88 keys)

Pedal

Progressive Damper Action Pedal (Damper pedal: capable of continuous detection, Soft pedal: capable of continuous detection/function assignable, Sostenuto pedal: function assignable)

Speaker System

Speaker System

Acoustic Projection

Speakers

Cabinet + Near-field Speakers: 12 + 2.5 cm (5 + 1 inches) x 2 (Coaxial Speaker)

Spatial Speakers: 5 cm (2 inches) x 2

Rated Power Output

25 W x 2

5 W x 2

Headphones

Effect: Headphones 3D Ambience

Tuning, Voicing

Touch Sensitivity

Key Touch: 100 types, fixed touch

Hammer Response: 10 types

Master Tuning

415.3–466.2 Hz (adjustable in increments of 0.1 Hz)

Temperament

10 types (Equal, Just Major, Just Minor, Pythagorean, Kirnberger I, Kirnberger II, Kirnberger III, Meantone, Werckmeister, Arabic), selectable temperament key

Effects

Brilliance, Ambience

Piano Designer

Lid

Key Off Noise

Hammer Noise

Duplex Scale

Full Scale String Resonance

Damper Resonance

Key Off Resonance

Cabinet Resonance

Soundboard Type

Damper Noise

Single Note Tuning

Single Note Volume

Single Note Character

Internal Songs

US: Total 362 songs

Other: Total 382 songs

Listening: 15 songs

Ensemble: 30 songs

Entertainment: 20 songs

Easy Piano: 10 songs (US only)

Let's Sing with DO RE MI: 30 songs (Other than US)

Lesson: 287 songs (Scale, Hanon, Beyer, Burgmuller, Czerny 100)

Data Playback

Playable Software

Standard MIDI Files (Format 0, 1)

Audio File (WAV: 44.1 kHz, 16-bit linear format, MP3: 44.1 kHz, 64 kbps–320 kbps, requires USB Flash Memory)

Recorder

Recordable Software

Standard MIDI Files (Format 0, 3 parts, Approx. 70,000 notes memory)

Audio File (WAV: 44.1 kHz, 16-bit linear format, requires USB Flash Memory)

Bluetooth

Audio: Bluetooth Ver 3.0 (Supports SCMS-T content protection)

MIDI: Bluetooth Ver 4.0

Compatible Android / iOS Apps (Roland)

Piano Every Day
Piano Designer

Convenient Functions

Metronome (adjustable Tempo/Beat/Down beat/Pattern/Volume/Tone)
Registration
Dual
Split
TwinPiano (with Individual Mode)
Transpose (in semitones)
Speaker volume and Headphones volume automatically select function
Volume limit function
Panel Lock
Auto Off

Cabinet

Music rest: Tilt Adjustable (3 levels), with Music holders
Key cover: Slide type, with Keyboard Lid Switch and Classic Position

Other

Display

Graphic OLED 128 x 32 dots

Connectors

DC In jack
Input jacks: Stereo miniature phone type
Output (L/Mono, R) jacks: 1/4-inch phone type
USB Computer port: USB B type
USB Memory port: USB A type
Phones jack x 2: Stereo miniature phone type, Stereo 1/4-inch phone type

Power Supply

AC adaptor

Power Consumption

13W (12W–30W)

Dimensions (including piano stand)

With music rest:

1,377 (W) x 468 (D) x 1,113 (H) mm

54-1/4 (W) x 18-7/16 (D) x 43-7/8 (H) inches

When folding down the music rest:

1,377 (W) x 468 (D) x 957 (H) mm

54-1/4 (W) x 18-7/16 (D) x 37-11/16 (H) inches

Weight (including piano stand)

HP704-CH, HP704-DR, HP704-LA, HP704-WH: 59.5 kg/131 lbs 3 oz

Accessories

Owner's Manual (#5100064208, #5100064210)
Leaflet "USING THE UNIT SAFELY" (#*****)
The collection of scores "Roland Piano Masterpieces" (#5100064270)
AC adaptor (#5100047497)
Power cord (#02562456, #5100012293, #5100018086, #01903356, #5100033404, #5100019558, #5100039367)
Headphone hook (#5100046646)

Option (sold separately)

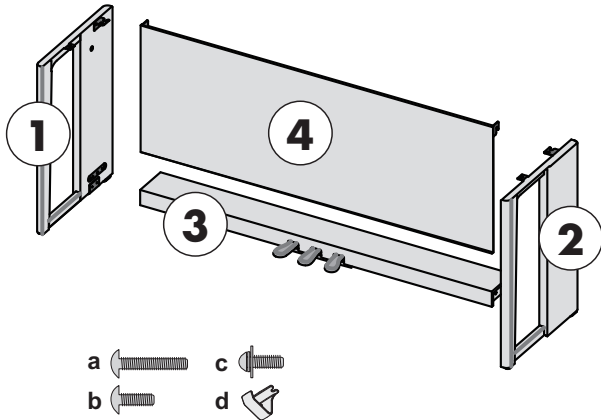
Headphones

* Printed matters will not be supplied after the end of the production. Then, download the electronic file from the Roland web site.

* In the interest of product improvement, the specifications and/or appearance this unit are subject to change without prior notice.

Contents of KSH704/2

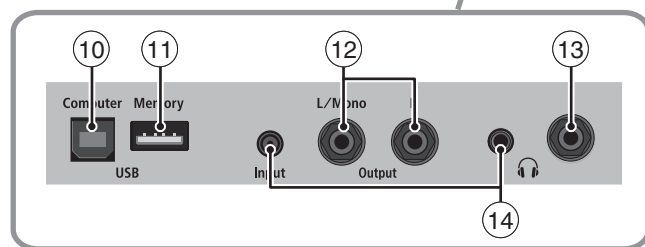
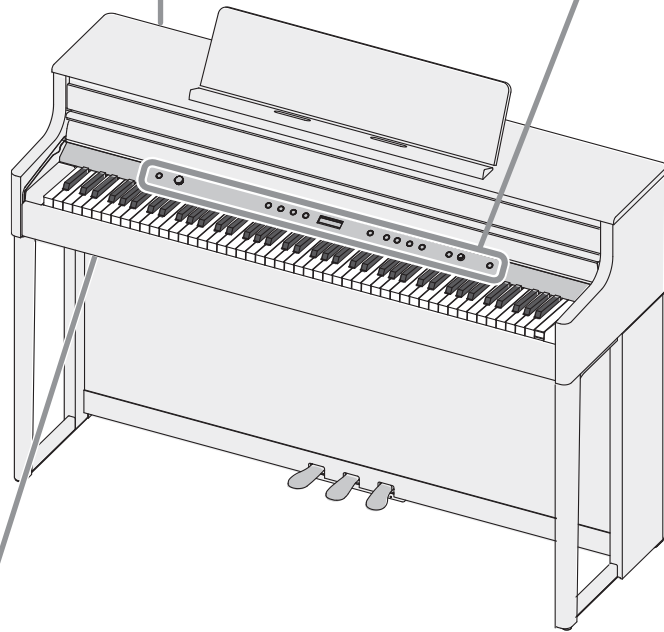
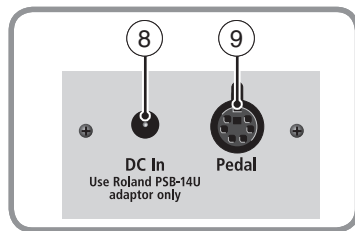
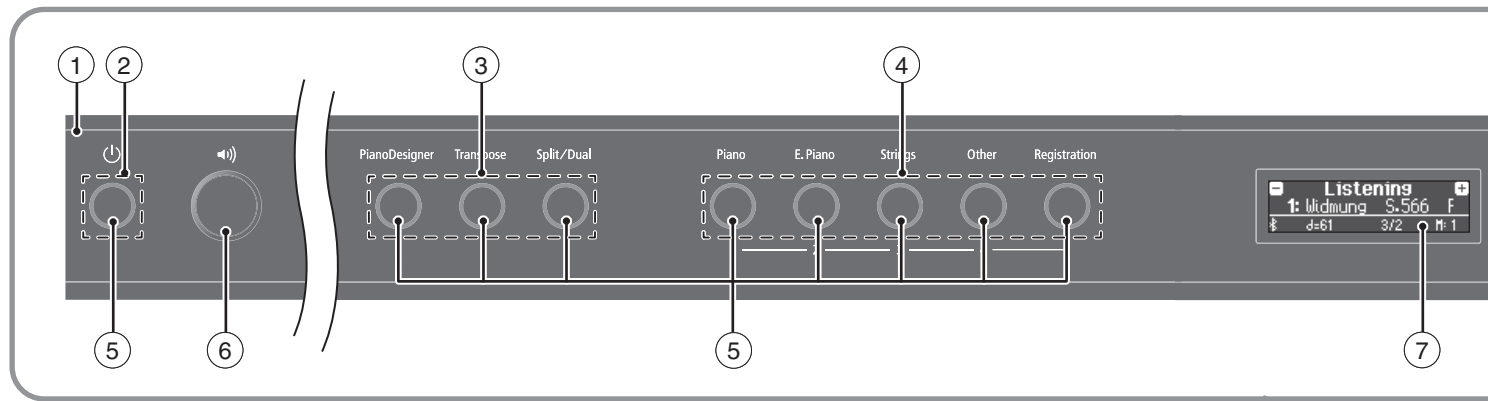
KSH704/2 consists of the following parts.

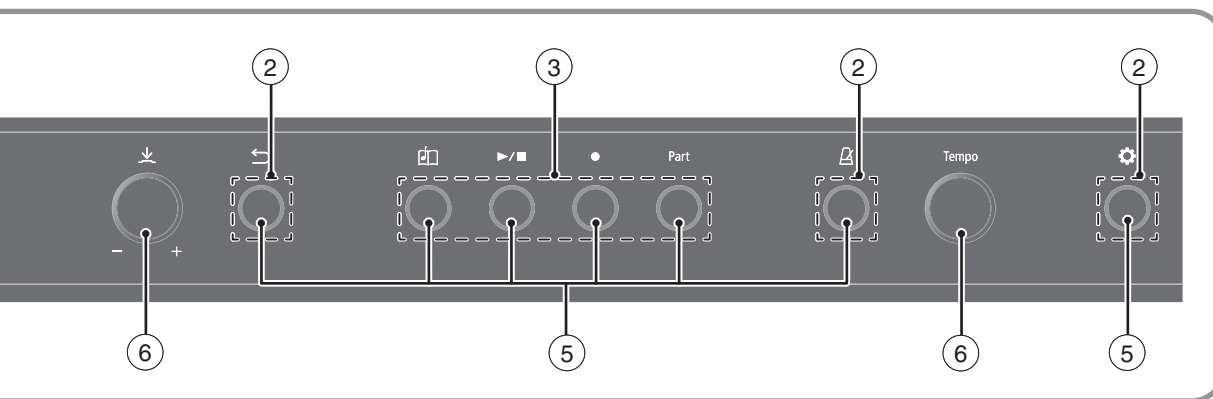


- 1: Side Board (Left) (*****)
- 2: Side Board (Right) (*****)
- 3: Pedal Board (*****)
- 4: Rear Board (*****)

- a: Screw M5 x 40 (#5100052202) x 4
- b: Screw M5 x 20 (#40679101) x 6
- c: Screw M4 x 16 (#40126267) x 2
- d: Headphone Hook (#5100046646)

Location of Controls

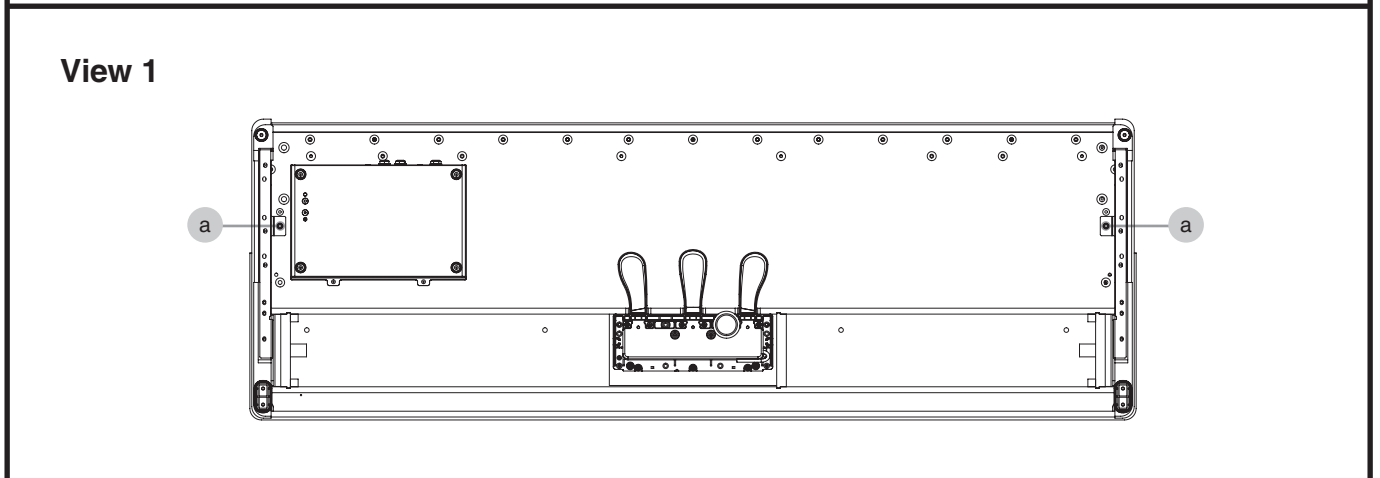
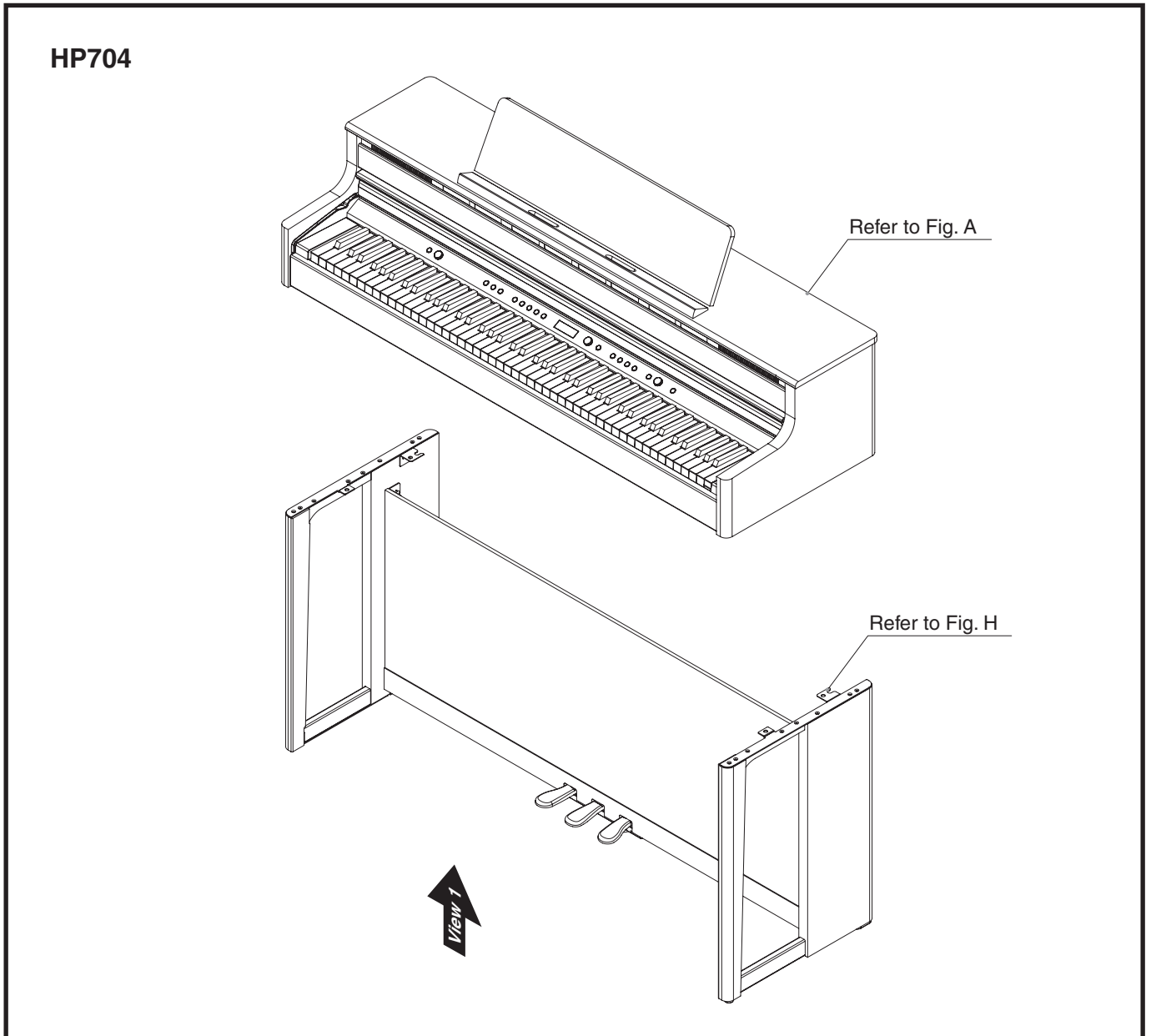




Location of Controls Parts List

No.	Part Code	Part Name	Description	Q'ty
1	5100065197	FRONT PANEL EXP	for DR, LA, CH for other than Japan	1
	5100065201	FRONT PANEL EXP	for WH, for other than Japan	1
2	5100062499	LED ISOLATOR		4
3	5100064797	LED ISOLATOR 4P		2
4	5100064798	LED ISOLATOR 5P		1
5	5100062361	KEYTOP ESCUTCHEON		16
	5100062316	KEYTOP	for DR, LA, CH	16
	5100062317	KEYTOP	for WH	16
	5100062365	SPRING		16
	02781634	TACT SWITCH	SKRGAED010	16
6	5100062319	R-KNOB	for DR, LA, CH	3
	5100062320	R-KNOB	for WH	3
	04346790	ROTARY ENCODER	EVEJBHF1520B	3
7	5100062362	DISPLAY COVER		1
	5100061157	OLED	9OL9925711000	1
8	5100024850	DC JACK	HEC3800-01-010	1
9	5100061609	MINI DIN CONNECTOR	YKF51-5448N	1
10	5100009531	USB CONNECTOR B TYPE FEMALE	YKF45-0044N	1
11	04459190	USB CONNECTOR A TYPE FEMALE	YKF45-0033N	1
12	13449275	6.5MM JACK	YKB21-5074	2
13	13449252	6.5MM JACK	YKB21-5006 (STEREO W/SW)	1
14	04452945	3.5MM JACK	YKB21-5344N	2

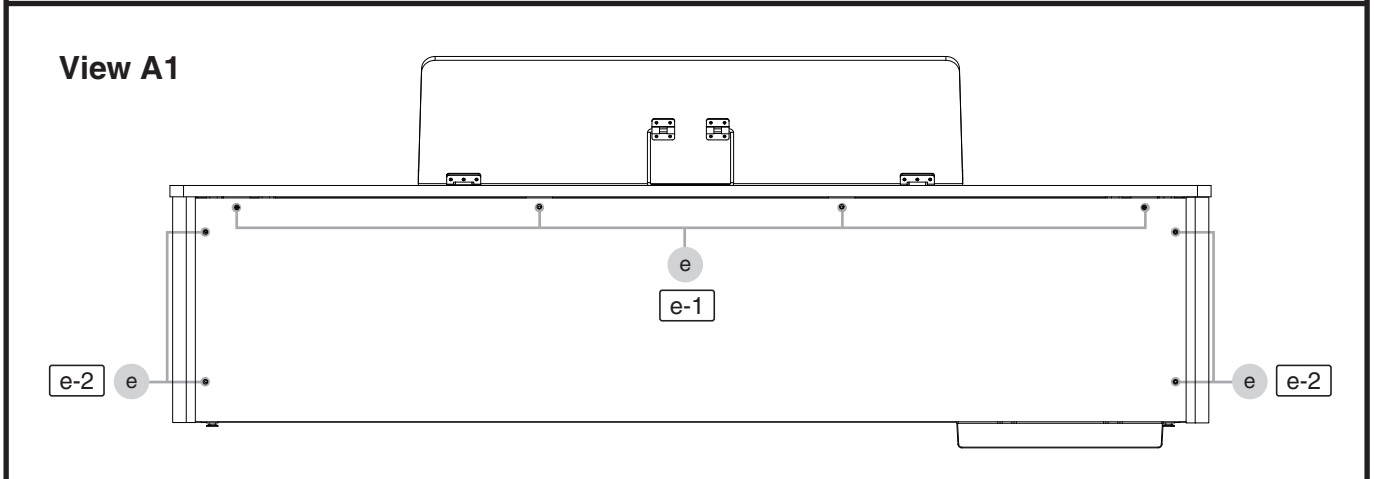
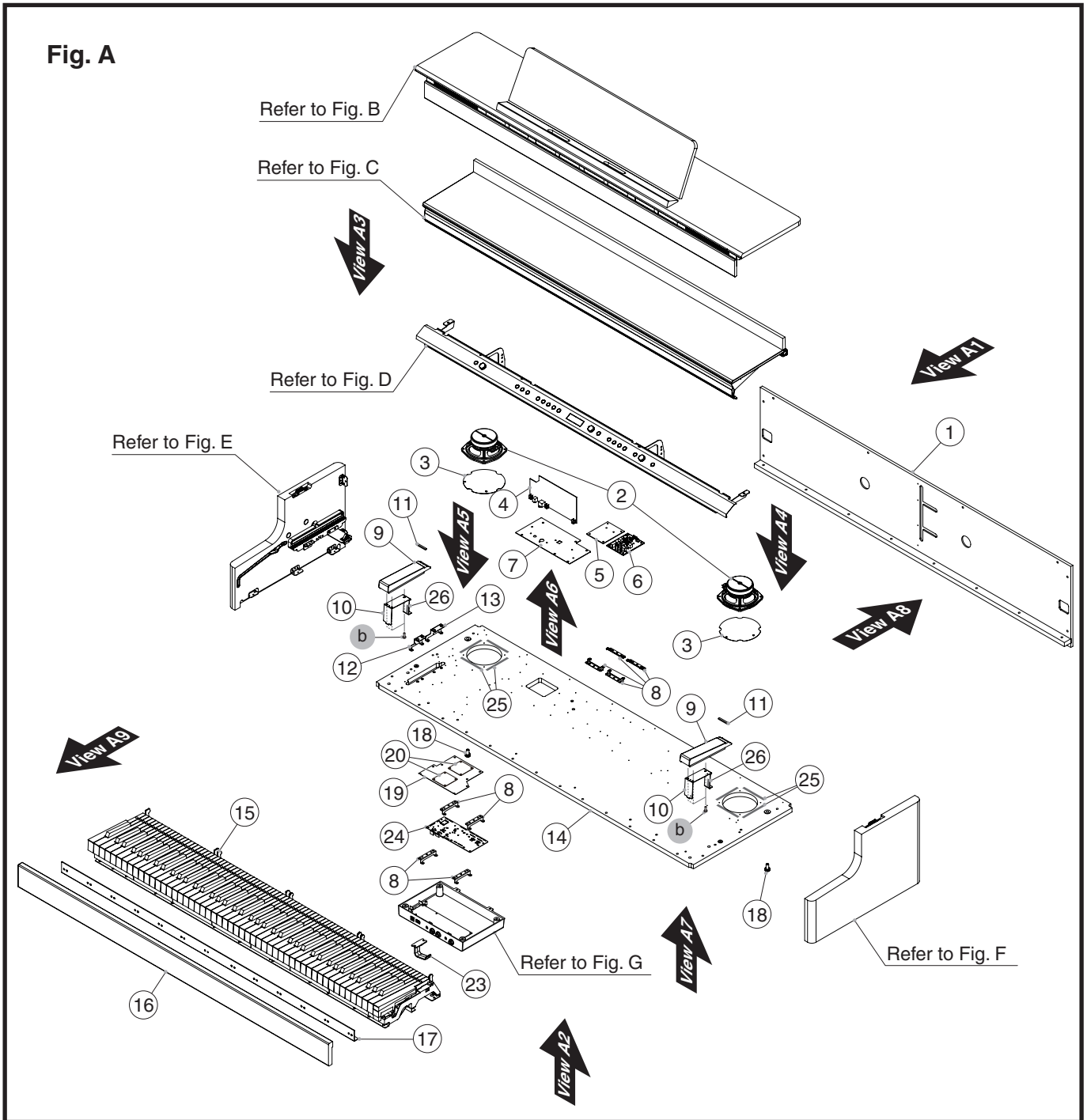
Exploded View (All)



View 1

No.	Part Code	Part Name	Description	Q'ty
a	40679101	SCREW M5X20	TRUSS MACHINE FE BZC	2

Exploded View (Fig. A)



Exploded View (Fig. A) Parts List

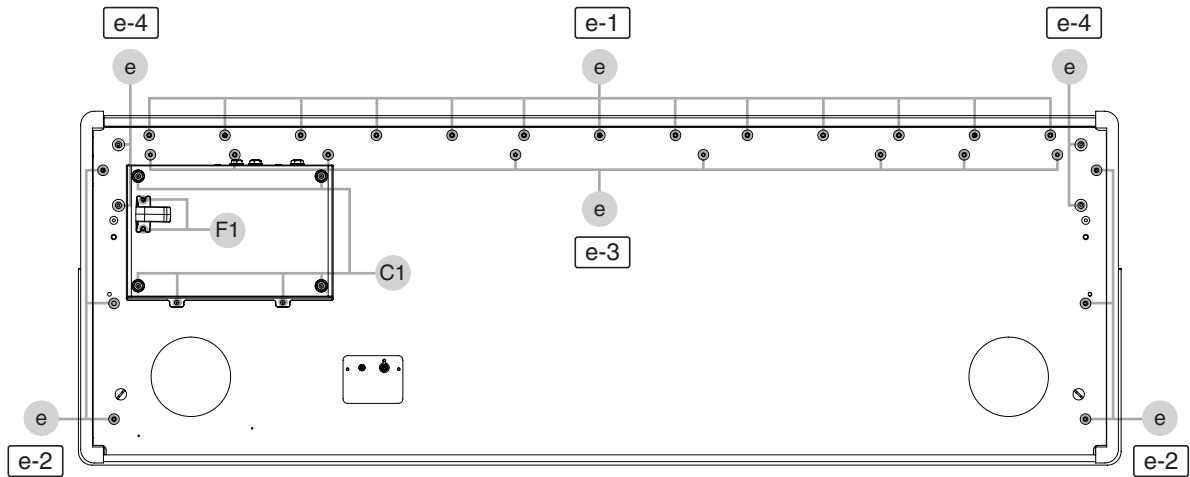
No.	Part Code	Part Name	Description	Q'ty
1	5100064912	REAR PANEL	for DR, CH	1
	5100064913	REAR PANEL	for LA	1
	5100064914	REAR PANEL	for WH	1
2	5100061677	SPEAKER	FR-5+1IN-08-CL11C	2
3	5100052189	SPEAKER COVER		2
4	5100061653	PMIC BOARD ASSY		1
5	5100052937	2CH DAMP MST BRD ASSY		1
6	5100052938	2CH DAMP SLV BRD ASSY		1
7	5100064917	REAR JACK HOLDER		1
8	5100062336	MAIN BOARD HOLDER		8
9	5100051981	END BLOCK	for DR	2
	5100051980	END BLOCK	for LA, CH	2
	5100051982	END BLOCK	for WH	2
10	5100065333	END BLOCK HOLDER		2
11	5100052176	END BLOCK FELT		2
12	5100062335	JACK BOARD HOLDER		1
13	5100064915	JACK BOARD HOLDER		1
	5100067979	BOTTOM BOARD ASSY	FOR SERVICE	1
	* This unit includes the following parts.			
14	*****	BOTTOM BOARD		1
18	22285342	CONNECTING PIN	228-342	2
19	*****	CONDUCTION SHEET		1
20	*****	COVER		2
	40017378	COATING CLIP	CS-7	12
15	5100054675	KEYBOARD ASSY	PHA-50B	1
16	5100062532	LOWER BLIND	for DR	1
	5100062533	LOWER BLIND	for LA	1
	5100065135	LOWER BLIND	for WH	1
	5100062531	LOWER BLIND	for CH	1
17	5100053090	BLIND ANGLE		1
23	5100046646	PHONES HOOK		1
24	5100052931	MAIN BOARD ASSY		1
25	40122612	ACETATE TAPE	NITTO #5 BLACK W10MM 30M 20P	-
26	40232123	ACETATE TAPE	NITTO #5 BLACK W20MM 30M 20P	-
b	40238501	SCREW 4X8	BINDING TAPTITE P FE BZC	6

View A1

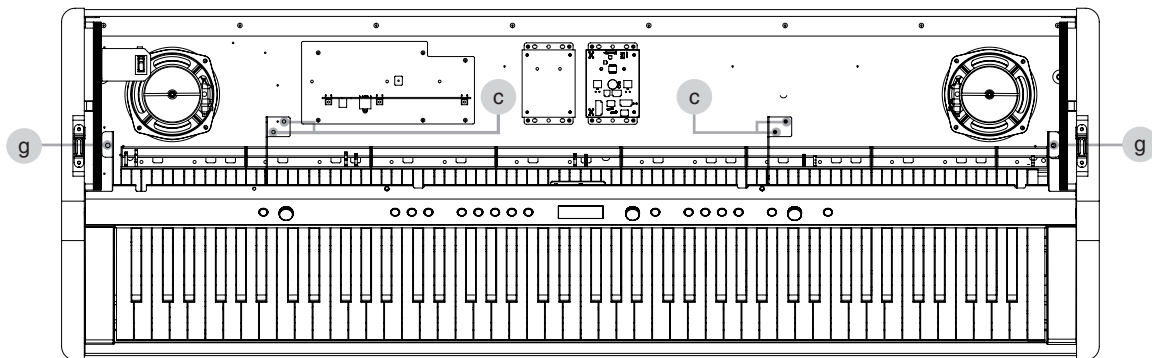
No.	Part Code	Part Name	Description	Q'ty
e	40564767	SCREW 4X20	VWH TAPTITE B W12.5 BZC	8

Plain View (Fig. A) (1)

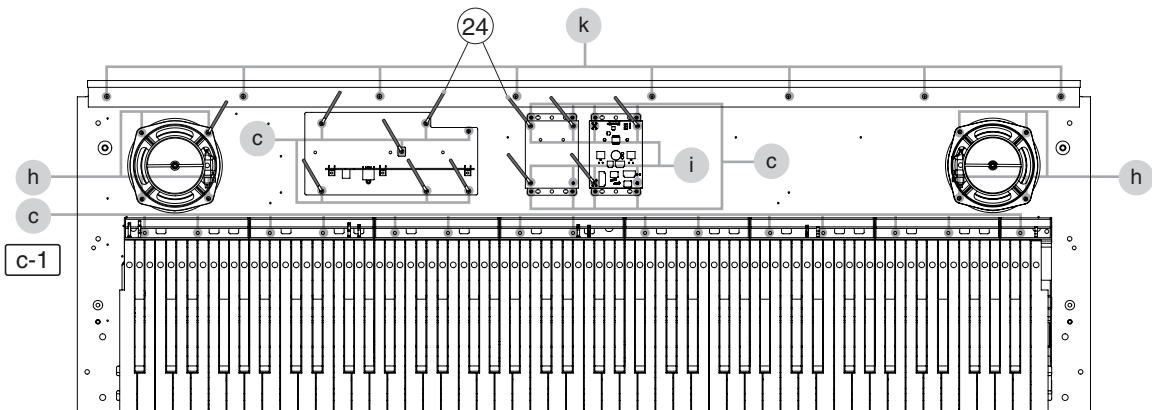
View A2



View A3



View A4



Plain View (Fig. A) (1) Parts List

View A2

No.	Part Code	Part Name	Description	Q'ty
e	40564767	SCREW 4X20	VWH TAPTITE B W12.5 BZC	31
C1	40012145	SCREW 4X14	TRUSS TAPPING A FE BZC	6
F1	40126267	SCREW M4X16	PAN MACHINE W/SW+PW FE BZC	2

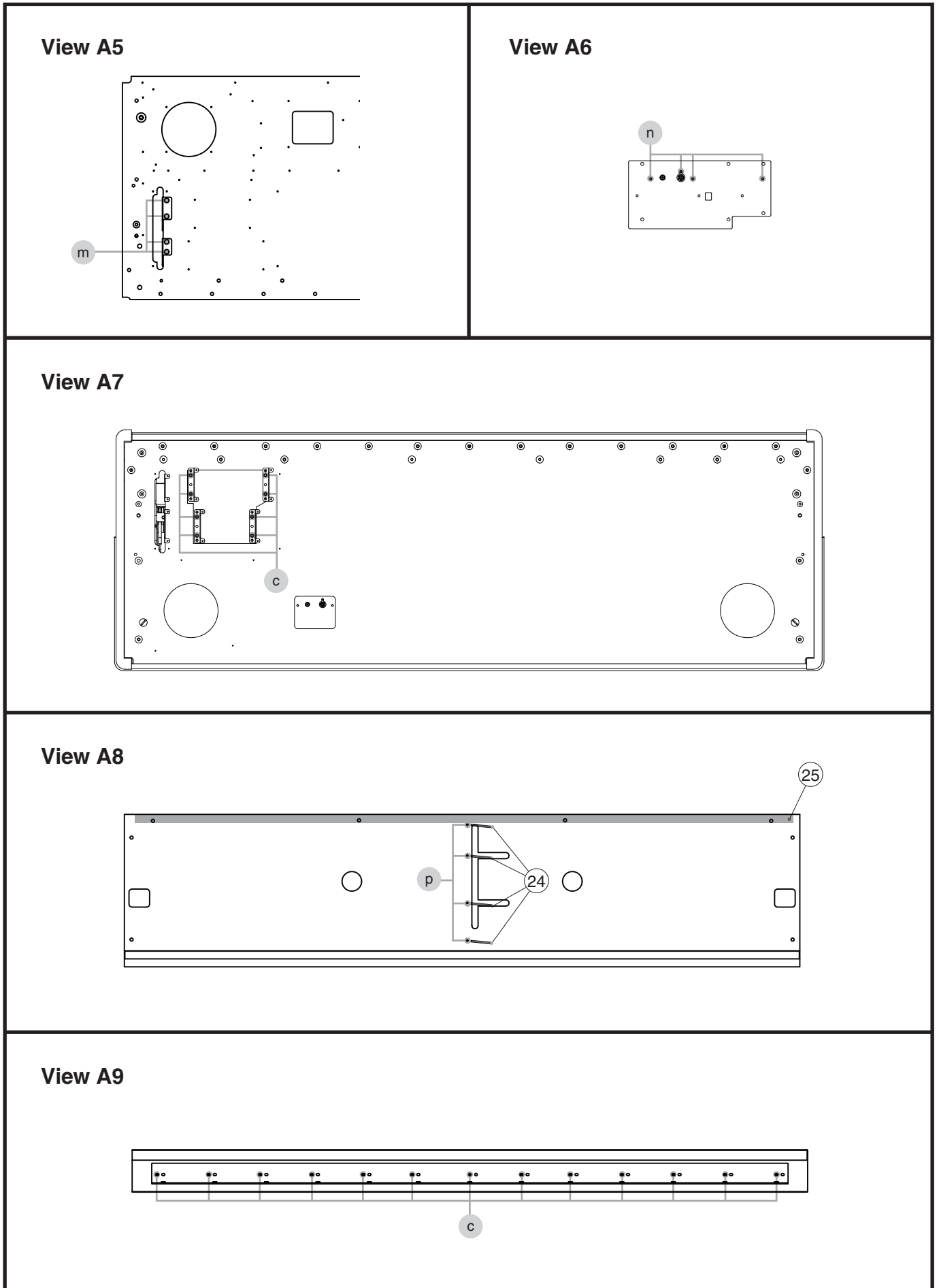
View A3

No.	Part Code	Part Name	Description	Q'ty
c	40127545	SCREW 4X10	TRUSS TAPPING A FE BZC	4
g	40011123	SCREW 4X8	BINDING TAPTITE B FE BZC	2

View A4

No.	Part Code	Part Name	Description	Q'ty
c	40127545	SCREW 4X10	TRUSS TAPPING A FE BZC	30
h	40010678	SCREW 4X20	TRUSS TAPPING A FE BZC	8
i	40011056	SCREW 3X6	BINDING TAPTITE B ZC	8
k	40010689	SCREW 4X25	TRUSS TAPPING A FE BZC	8
24	40017378	COATING CLIP	CS-7	12

Plain View (Fig. A) (2)



Plain View (Fig. A) (2) Parts List

View A5

No.	Part Code	Part Name	Description	Q'ty
m	40238356	SCREW M4X10	FLAT TAPPING BZC	4

View A6

No.	Part Code	Part Name	Description	Q'ty
n	40237101	SCREW M3X8	PAN MACHINE W/SW+SMALL PW BZC	4

View A7

No.	Part Code	Part Name	Description	Q'ty
c	40127545	SCREW 4X10	TRUSS TAPPING A FE BZC	8

View A8

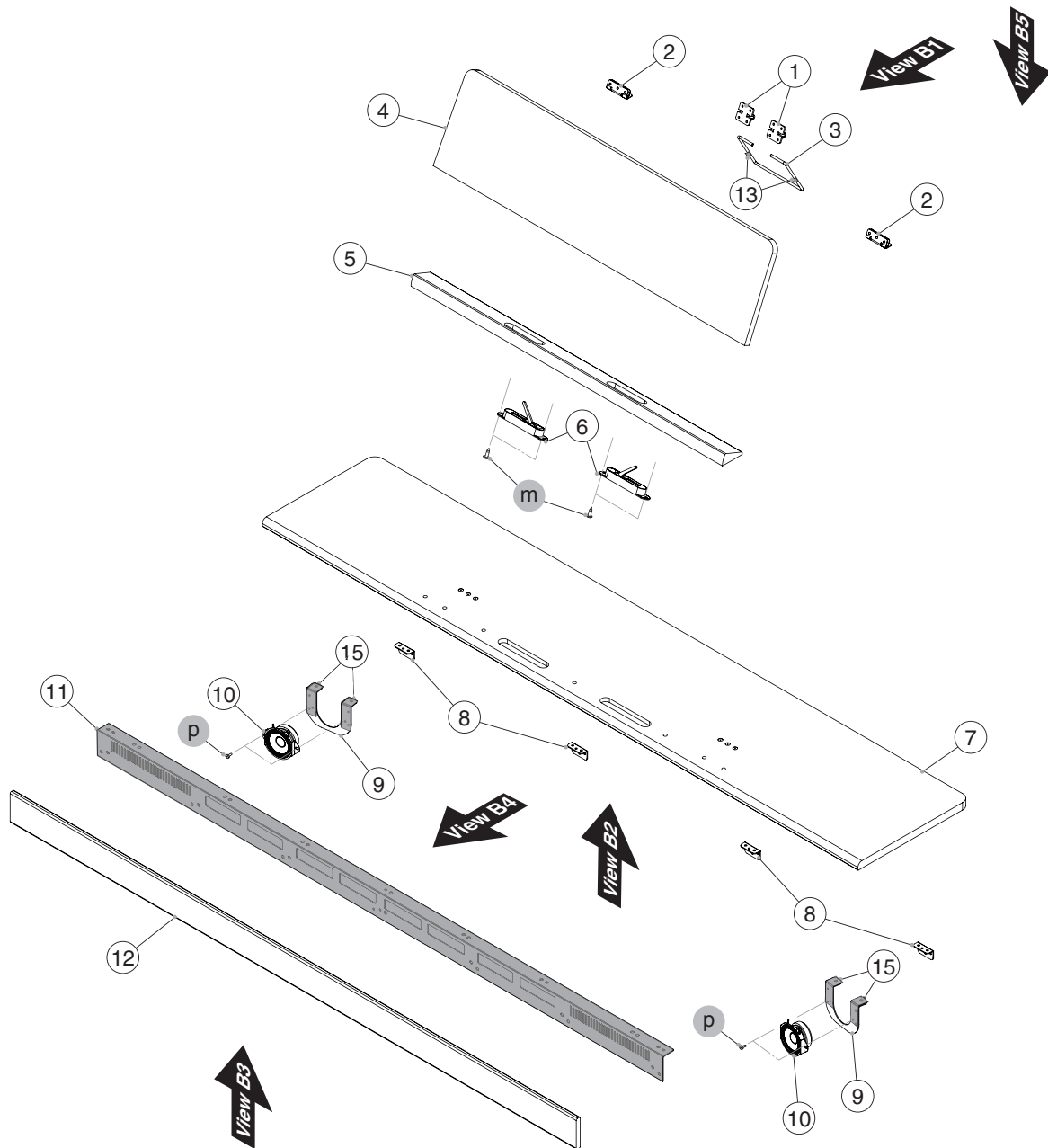
No.	Part Code	Part Name	Description	Q'ty
p	40010645	SCREW 4X8	TRUSS TAPPING A FE BZC	4
24	40017378	COATING CLIP	CS-7	4
25	40232123	ACETATE TAPE	NITTO #5 BLACK W20MM 30M 20P	-

View A9

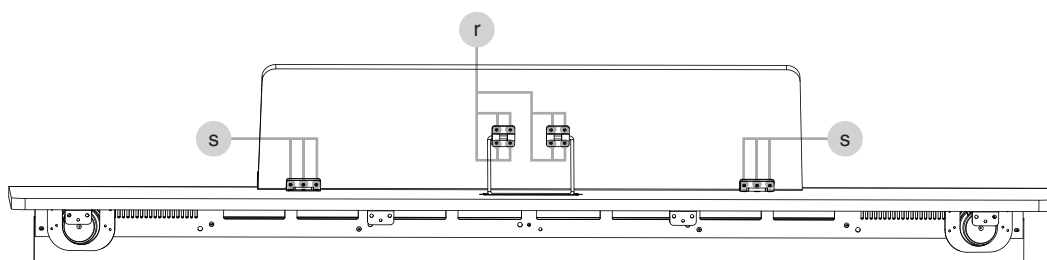
No.	Part Code	Part Name	Description	Q'ty
c	40127545	SCREW 4X10	TRUSS TAPPING A FE BZC	13

Exploded View (Fig. B)

Fig. B



View B1



Exploded View (Fig. B) Parts List

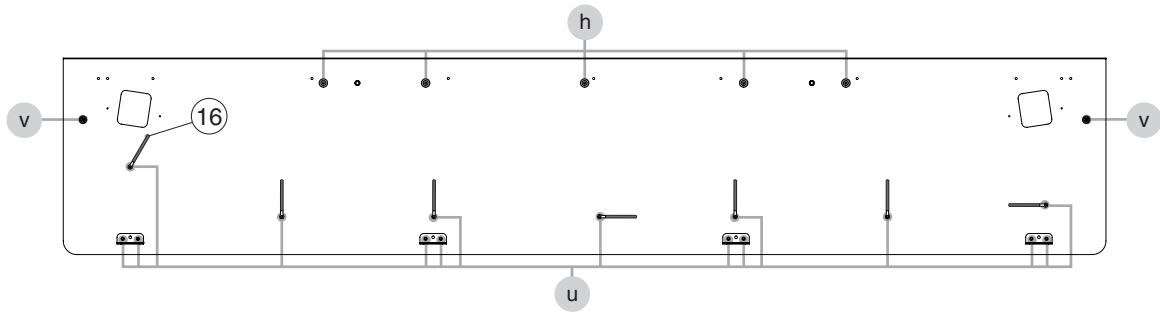
No.	Part Code	Part Name	Description	Q'ty
1	5100052375	ARM STAY		2
2	04785534	HINGE		2
3	5100064916	PROP		1
4	5100064908	MUSIC REST	for DR	1
	5100064909	MUSIC REST	for LA	1
	5100064910	MUSIC REST	for WH	1
	5100064907	MUSIC REST	for CH	1
5	5100065176	MUSIC STOPPER	for DR	1
	5100065177	MUSIC STOPPER	for LA	1
	5100065178	MUSIC STOPPER	for WH	1
	5100065175	MUSIC STOPPER	for CH	1
6	5100063854	SCORE STOPPER ASSY	for DR, LA, CH	1
	5100063855	SCORE STOPPER ASSY	for WH	1
7	5100064892	TOP BOARD	for DR	1
	5100064893	TOP BOARD	for LA	1
	5100064894	TOP BOARD	for WH	1
	5100064891	TOP BOARD	for CH	1
8	5100051973	ANGLE		4
9	04452445	TW HOLDER		2
10	5100064528	SPEAKER	TW-2IN-08-CH76C	2
11	5100067990	BLIND ANGLE	W/GRILLE CLOTH for DR, CH	1
	5100067991	BLIND ANGLE	W/GRILLE CLOTH for LA	1
	5100067992	BLIND ANGLE	W/GRILLE CLOTH for WH	1
12	5100064904	UPPER BLIND	for DR	1
	5100064905	UPPER BLIND	for LA	1
	5100064906	UPPER BLIND	for WH	1
13	5100063953	PROP CUSHION		2
15	40232123	ACETATE TAPE	NITTO #5 BLACK W20MM 30M 20P	-
p	40011101	SCREW 3X8	BINDING TAPTITE B BZC	4
m	40238356	SCREW M4X10	FLAT TAPPING BZC	4

View B1

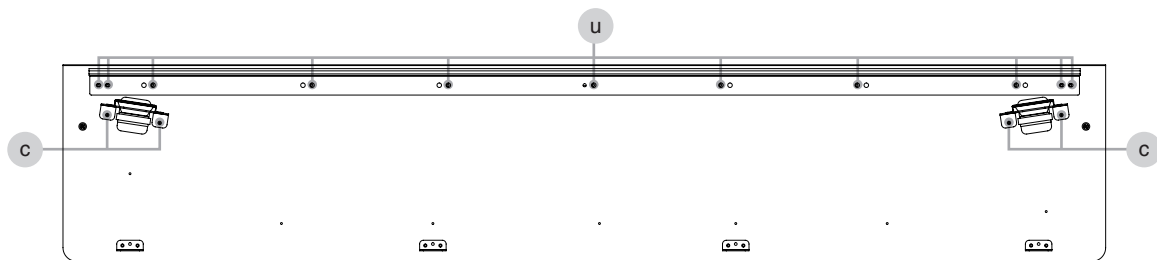
No.	Part Code	Part Name	Description	Q'ty
s	40563612	SCREW 2.6X8	FLAT TAPPING A BROWN BRONZE	6
r	40010789	SCREW 3X10	BINDING TAPPING A FE BZC	8

Plain View (Fig. B)

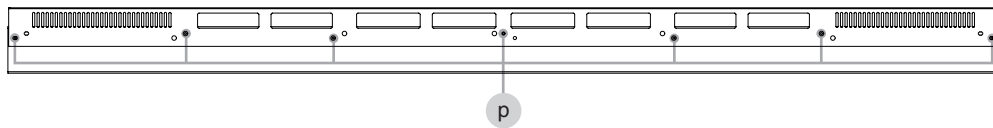
View B2



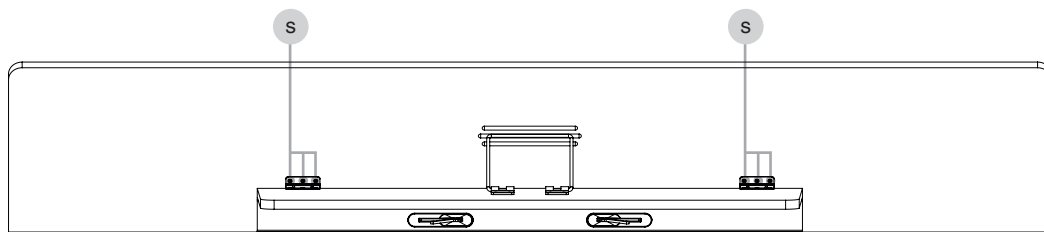
View B3



View B4



View B5



Plain View (Fig. B) Parts List

View B2

No.	Part Code	Part Name	Description	Q'ty
h	40010678	SCREW 4X20	TRUSS TAPPING A FE BZC	5
u	40010656	SCREW 4X12	TRUSS TAPPING A FE BZC	15
v	01906367	SHOULDER SCREW	1065	2
16	40017378	COATING CLIP	CS-7	7

View B3

No.	Part Code	Part Name	Description	Q'ty
c	40127545	SCREW 4X10	TRUSS TAPPING A FE BZC	4
u	40010656	SCREW 4X12	TRUSS TAPPING A FE BZC	11

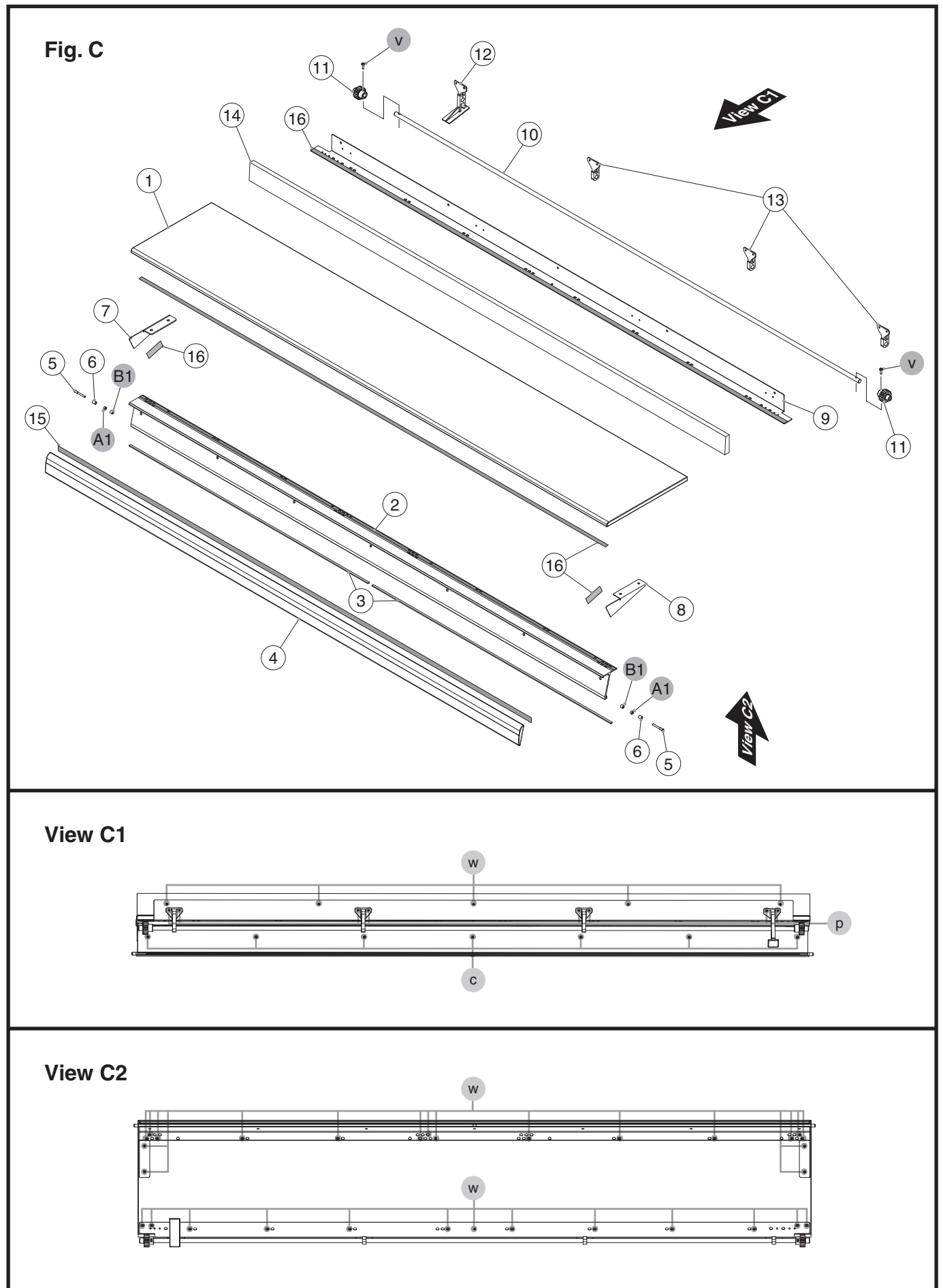
View B4

No.	Part Code	Part Name	Description	Q'ty
p	40010645	SCREW 4X8	TRUSS TAPPING A FE BZC	7

View B5

No.	Part Code	Part Name	Description	Q'ty
s	40563612	SCREW 2.6X8	FLAT TAPPING A BROWN BRONZE	6

Exploded View (Fig. C)



Exploded View (Fig. C) Parts List

No.	Part Code	Part Name	Description	Q'ty
1	5100062524	LID BOARD	for DR	1
	5100062525	LID BOARD	for LA	1
	5100065133	LID BOARD	for WH	1
	5100062523	LID BOARD	for CH	1
2	5100062713	LID BLIND	for DR	1
	5100062715	LID BLIND	for LA	1
	5100062714	LID BLIND	for WH	1
	5100062699	LID BLIND	for CH	1
3	5100047126	LID BLIND CUSHION		2
4	5100062528	LID BLIND COVER	for DR	1
	5100062529	LID BLIND COVER	for LA	1
	5100065134	LID BLIND COVER	for WH	1
	5100062527	LID BLIND COVER	for CH	1
5	5100047120	GUIDE PIN		2
6	5100046655	LID GUIDE BUSH		2
7	5100063824	LID SIDE COVER L		1
8	5100063825	LID SIDE COVER R		1
9	5100062610	LID ANGLE		1
10	5100052170	LID SHAFT		1
11	5100051975	LID GEAR		2
12	5100062606	SW STAY		1
13	5100062605	LID SHAFT STAY BUSH		3
14	5100065130	LID ANGLE COVER	for DR	1
	5100065131	LID ANGLE COVER	for LA	1
	5100065132	LID ANGLE COVER	for WH	1
	5100065129	LID ANGLE COVER	for CH	1
15	40232123	ACETATE TAPE	NITTO #5 BLACK W20MM 30M 20P	-
16	40122612	ACETATE TAPE	NITTO #5 BLACK W10MM 30M 20P	-
v	40012967	SCREW M3X10	PAN MACHINE W /SW+PW(7.8MM) BZC	2
A1	40569512	WASHER T1X3.2X6		2
B1	5100063822	POM WASHER 3.2X6XT2	BLACK	2

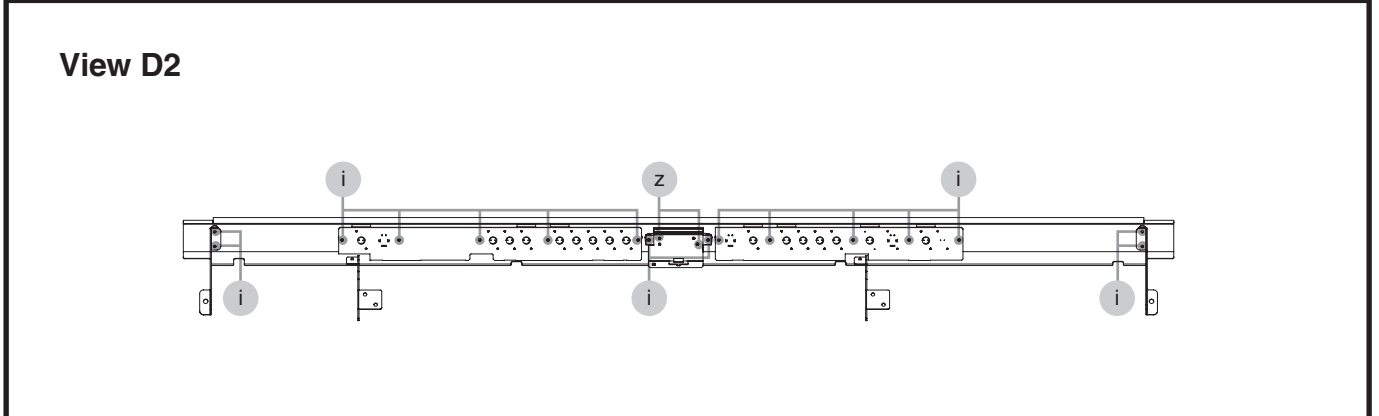
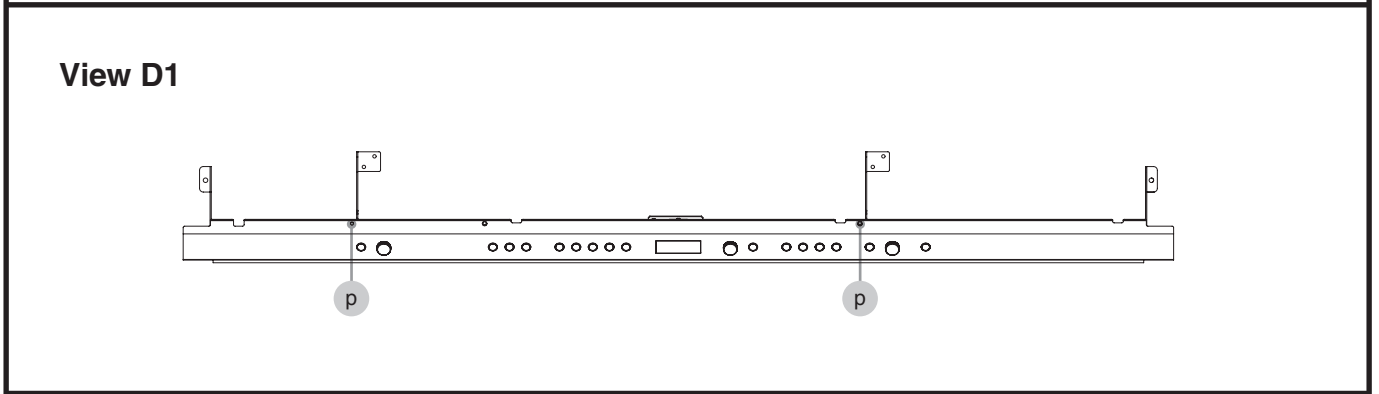
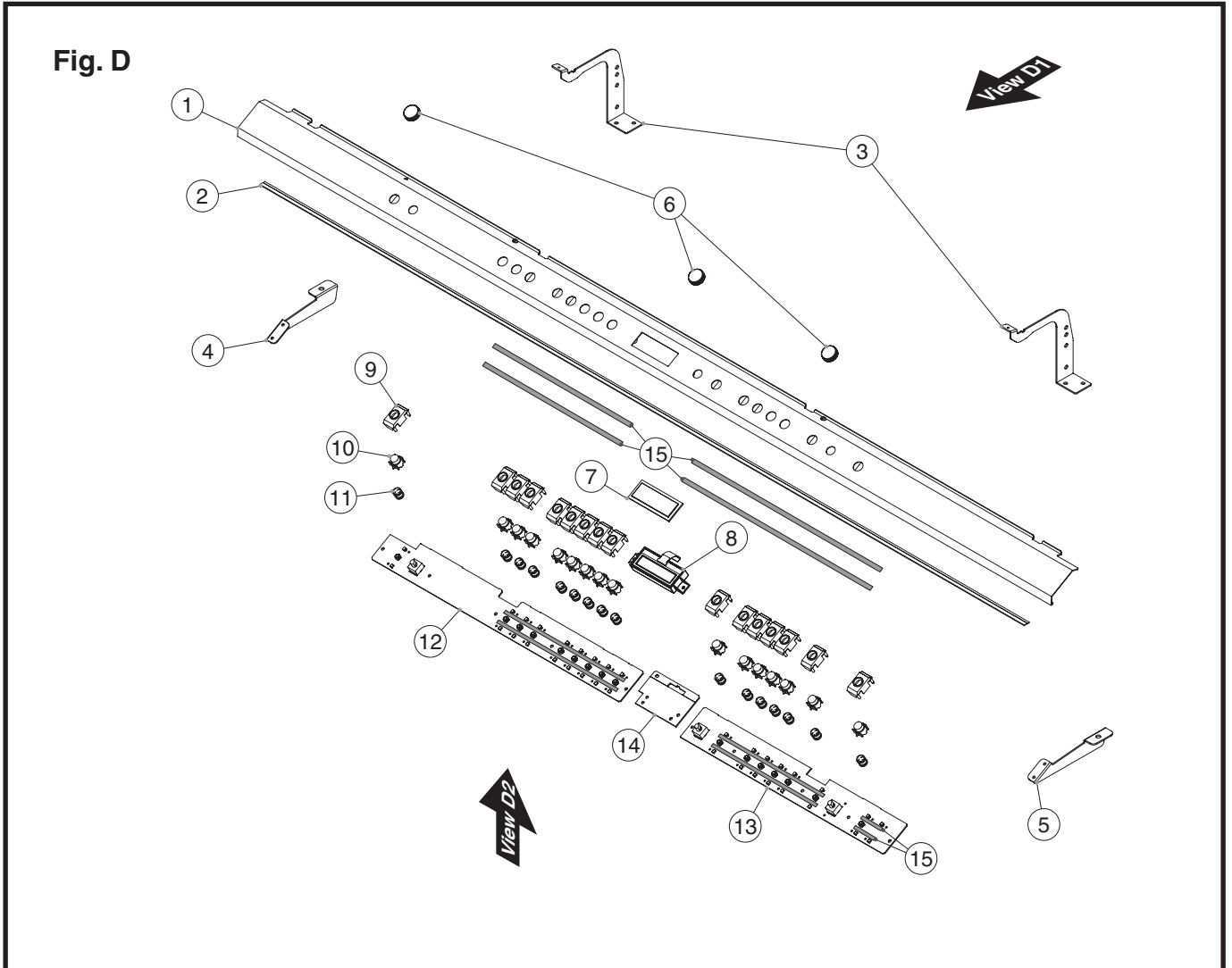
View C1

No.	Part Code	Part Name	Description	Q'ty
c	40127545	SCREW 4X10	TRUSS TAPPING A FE BZC	7
p	40011101	SCREW 3X8	BINDING TAPTITE B BZC	8
w	40239401	SCREW 3.5X8	BINDING TAPPING A BZC	5

View C2

No.	Part Code	Part Name	Description	Q'ty
w	40239401	SCREW 3.5X8	BINDING TAPPING A BZC	31

Exploded View (Fig. D)



Exploded View (Fig. D) Parts List

No.	Part Code	Part Name	Description	Q'ty
1	5100065197	FRONT PANEL EXP	for DR, LA, CH for other than Japan	1
	5100065201	FRONT PANEL EXP	for WH, for other than Japan	1
2	03012323	KEY FELT		1
3	5100062620	CENTER HOLDER		2
4	5100062613	SIDE ANGLE L		1
5	5100062614	SIDE ANGLE R		1
6	5100062319	R-KNOB	for DR, LA, CH	3
	5100062320	R-KNOB	for WH	3
7	5100062362	DISPLAY COVER		1
8	5100061157	OLED	9OL9925711000	1
9	5100062361	KEYTOP ESCUTCHEON		16
10	5100062316	KEYTOP	for DR, LA, CH	16
	5100062317	KEYTOP	for WH	16
11	5100062365	SPRING		16
	5100061654	PANEL SHEET ASSY		1
	* This unit includes the following parts.			
12	*****	PANEL-L BOARD		1
13	*****	PANEL-R BOARD		1
14	*****	OLED-IF BOARD		1
15	5100021076	DOUBLE SIDED ADHESIVE TAPE	NITTO #5000NS W5MM	-

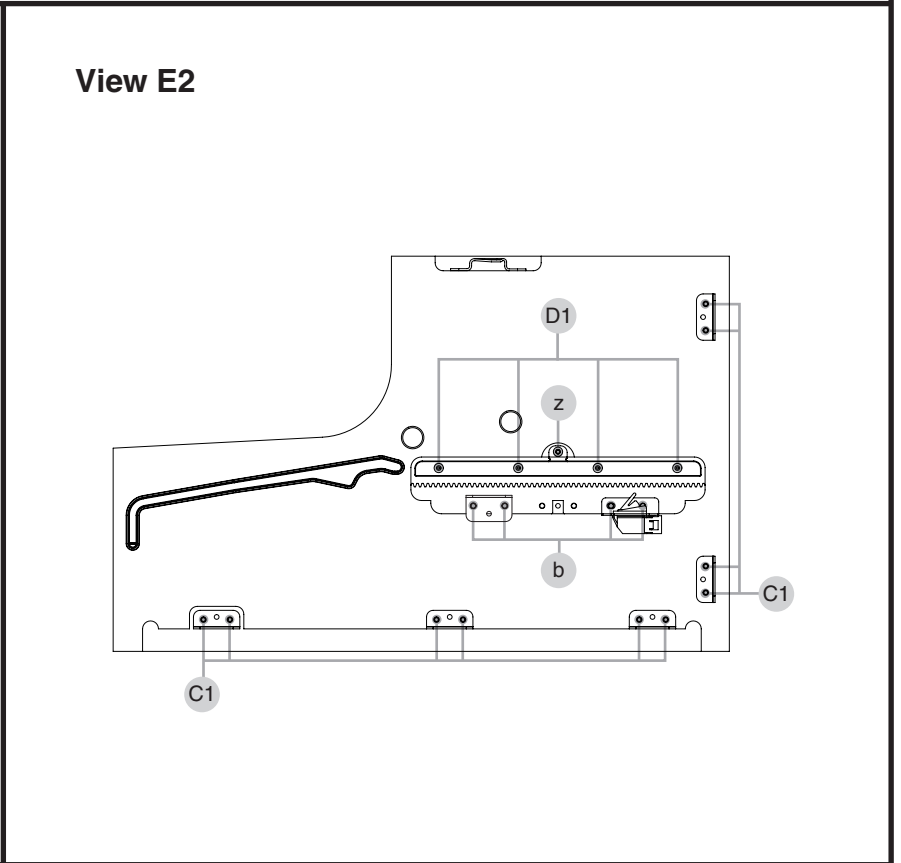
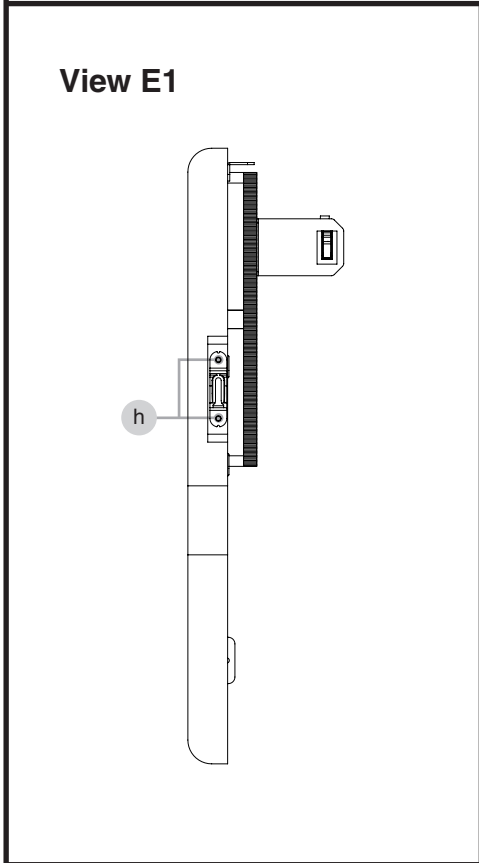
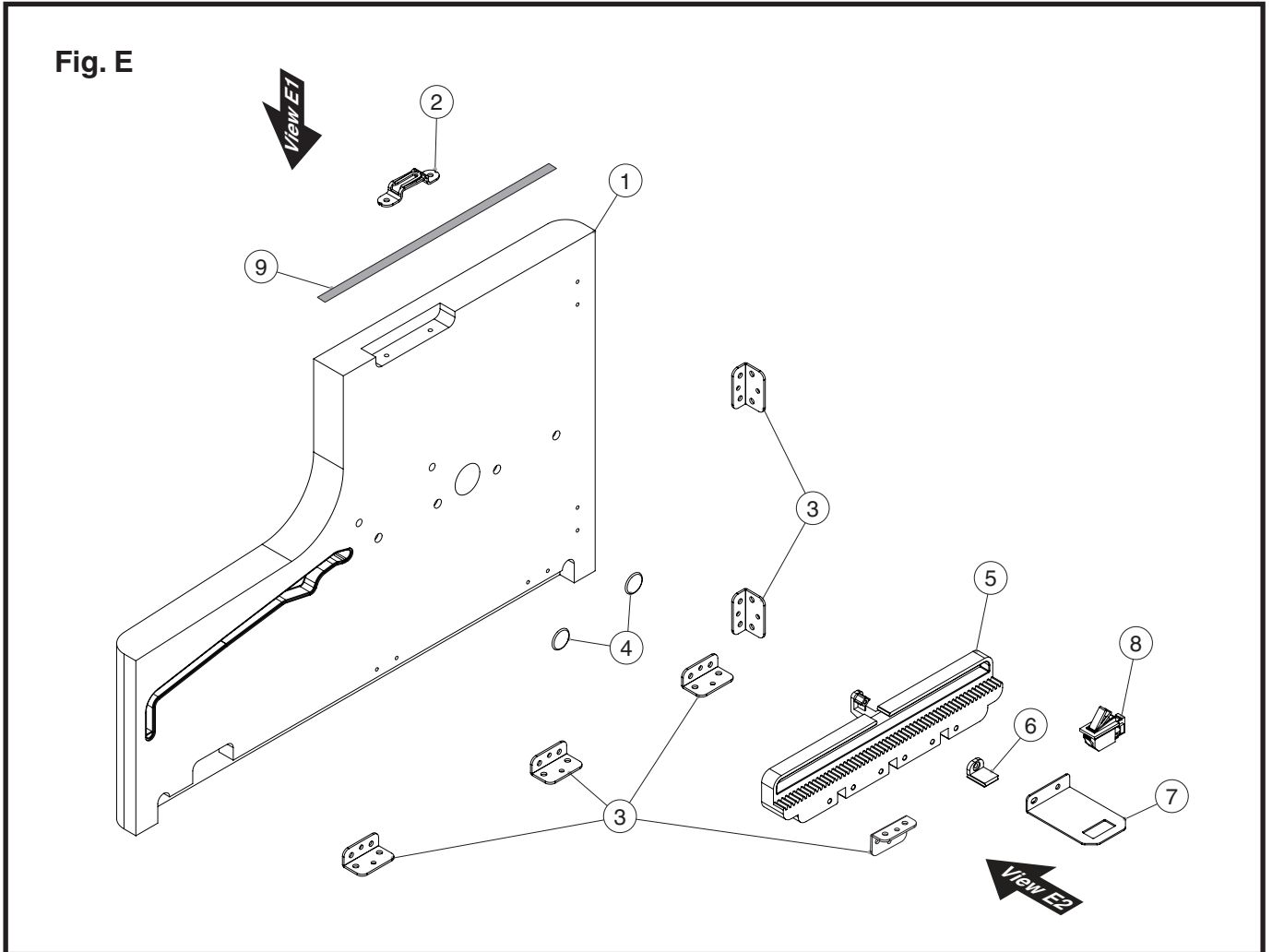
View D1

No.	Part Code	Part Name	Description	Q'ty
p	40011101	SCREW 3X8	BINDING TAPTITE B BZC	2

View D2

No.	Part Code	Part Name	Description	Q'ty
i	40011056	SCREW 3X6	BINDING TAPTITE B ZC	16
z	40011312	SCREW 3X8	BINDING TAPTITE P FE BZC	2

Exploded View (Fig. E)



Exploded View (Fig. E) Parts List

No.	Part Code	Part Name	Description	Q'ty
1	5100067982	SIDE PANEL L	FOR SERVICE for DR	1
	5100067984	SIDE PANEL L	FOR SERVICE for LA	1
	5100067986	SIDE PANEL L	FOR SERVICE for WH	1
	5100067988	SIDE PANEL L	FOR SERVICE for CH	1
2	5100055890	BRACKET		1
3	5100051973	ANGLE		6
4	40455345	FREE CAP 8 BLK		2
5	5100062604	LID RAIL		1
6	5100051974	LID RAIL STOPPER		1
7	5100062609	LID SW HOLDER		1
8	5100051117	PUSH SWITCH	SDKNA20700	1
9	40122612	ACETATE TAPE	NITTO #5 BLACK W10MM 30M 20P	-

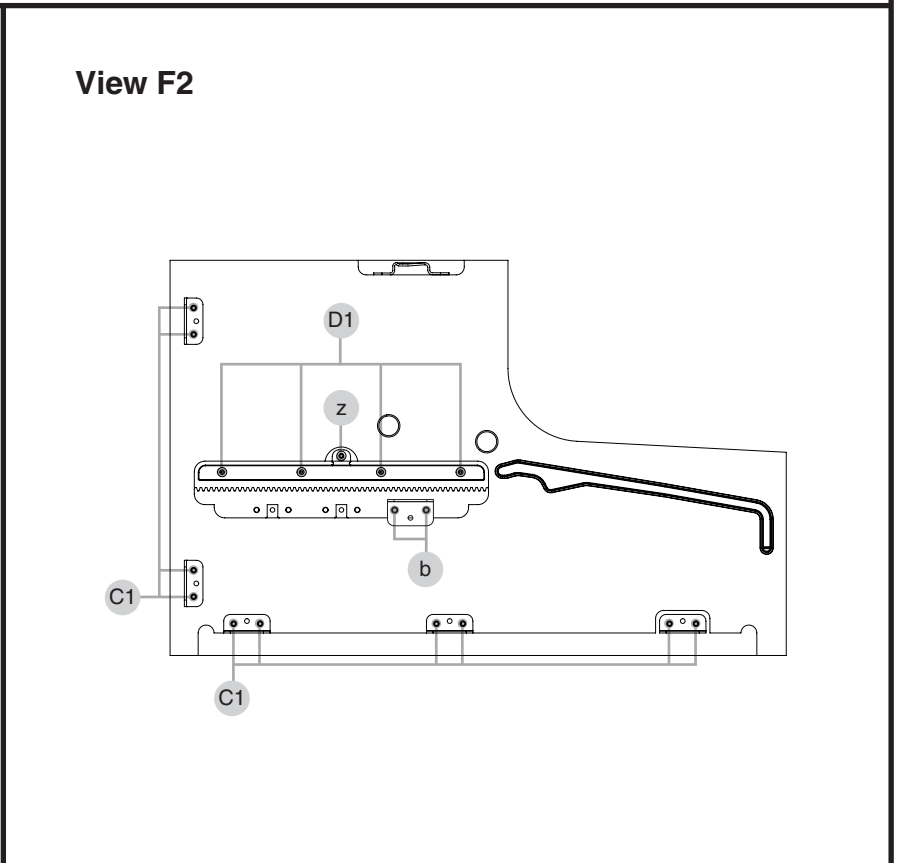
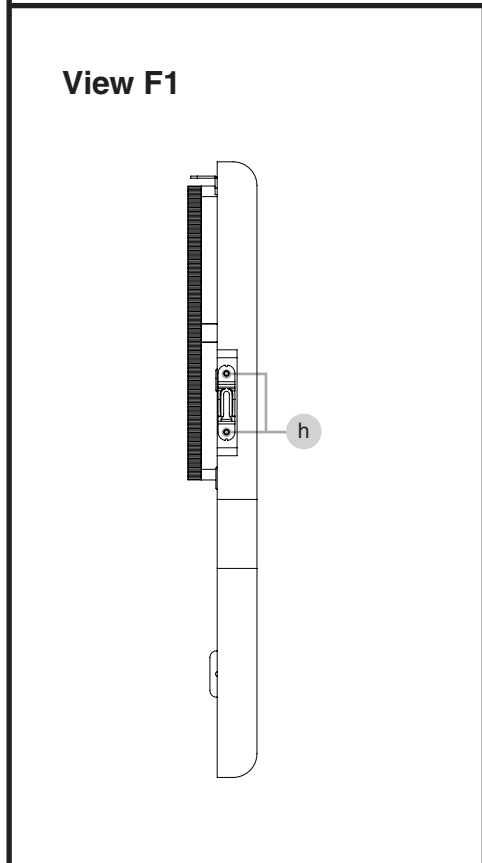
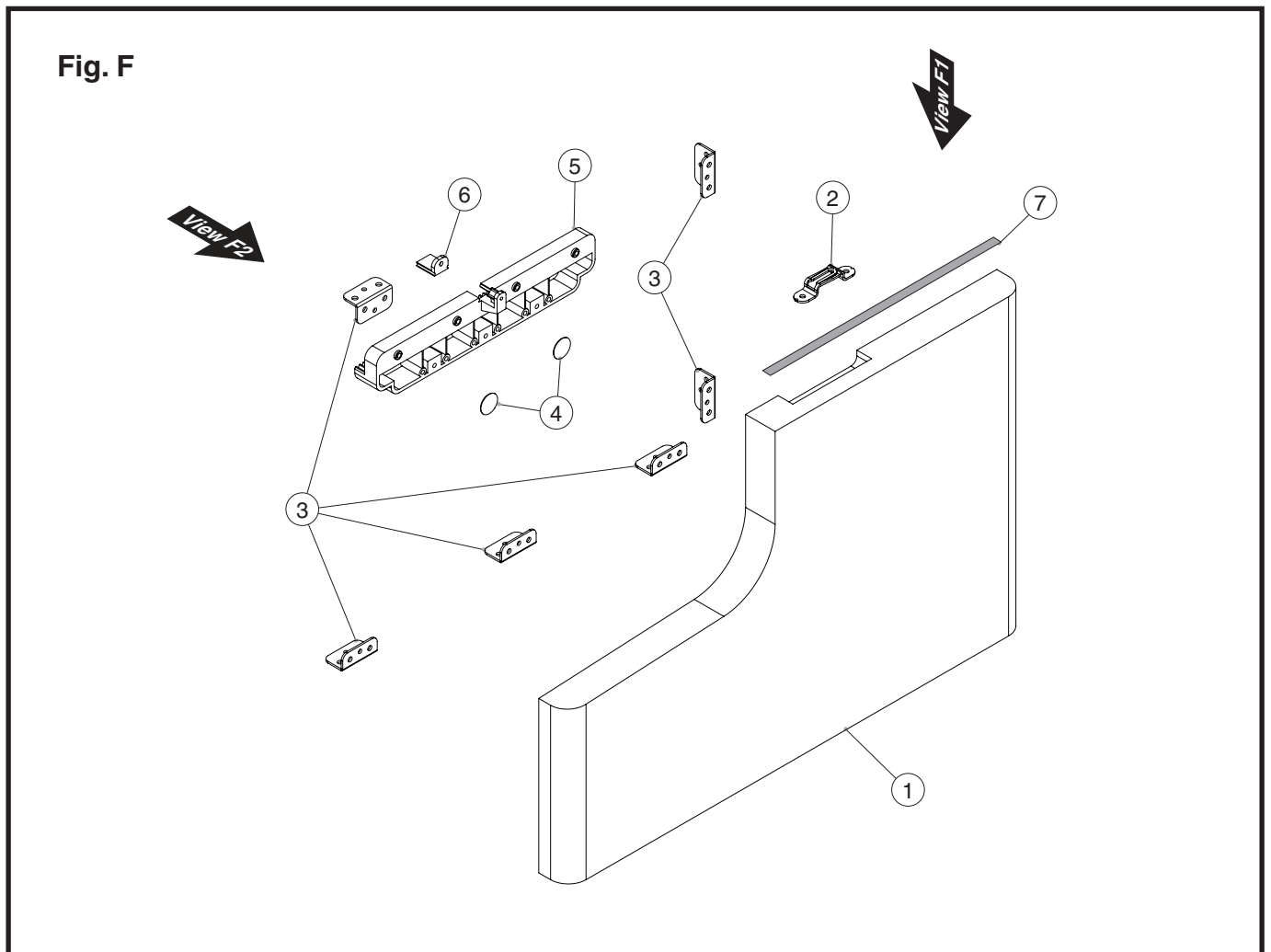
View E1

No.	Part Code	Part Name	Description	Q'ty
h	40010678	SCREW 4X20	TRUSS TAPPING A FE BZC	2

View E2

No.	Part Code	Part Name	Description	Q'ty
b	40238501	SCREW 4X8	BINDING TAPTITE P FE BZC	4
z	40011312	SCREW 3X8	BINDING TAPTITE P FE BZC	1
C1	40012145	SCREW 4X14	TRUSS TAPPING A FE BZC	10
D1	40563023	SCREW 3X16	FLAT TAPPING A ZC	4

Exploded View (Fig. F)



Exploded View (Fig. F) Parts List

No.	Part Code	Part Name	Description	Q'ty
1	5100067983	SIDE PANEL R	FOR SERVICE for DR	1
	5100067985	SIDE PANEL R	FOR SERVICE for LA	1
	5100067987	SIDE PANEL R	FOR SERVICE for WH	1
	5100067989	SIDE PANEL R	FOR SERVICE for CH	1
2	5100055890	BRACKET		1
3	5100051973	ANGLE		6
4	40455345	FREE CAP 8 BLK		2
5	5100062604	LID RAIL		1
6	5100051974	LID RAIL STOPPER		1
7	40122612	ACETATE TAPE	NITTO #5 BLACK W10MM 30M 20P	-

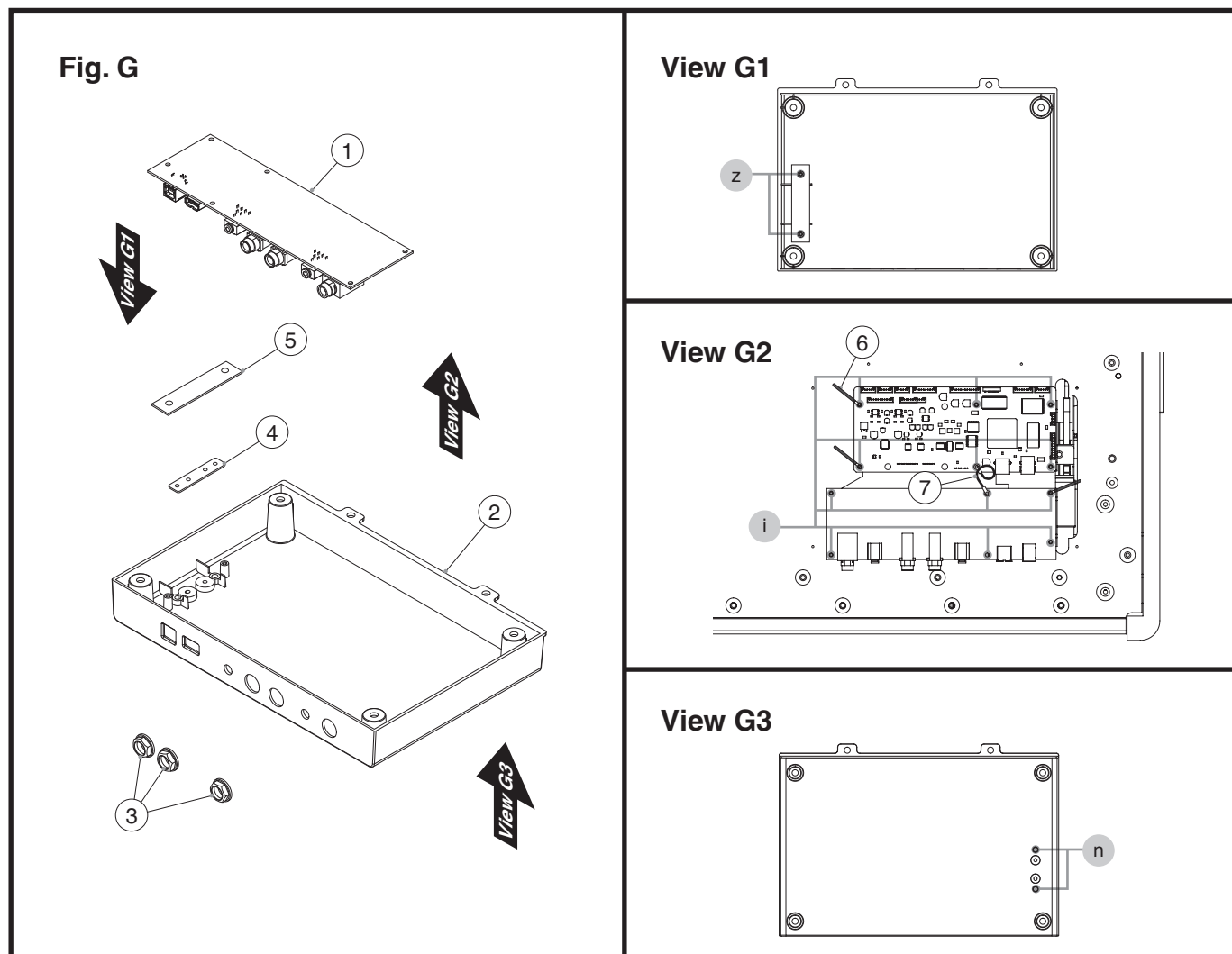
View F1

No.	Part Code	Part Name	Description	Q'ty
h	40010678	SCREW 4X20	TRUSS TAPPING A FE BZC	2

View F2

No.	Part Code	Part Name	Description	Q'ty
b	40238501	SCREW 4X8	BINDING TAPTITE P FE BZC	2
z	40011312	SCREW 3X8	BINDING TAPTITE P FE BZC	1
C1	40012145	SCREW 4X14	TRUSS TAPPING A FE BZC	10
D1	40563023	SCREW 3X16	FLAT TAPPING A ZC	4

Exploded View (Fig. G)



Exploded View (Fig. G) Parts List

No.	Part Code	Part Name	Description	Q'ty
1	5100061656	FRONT JACK BOARD ASSY		1
2	5100062356	FRONT JACK CASE		1
3	5100052079	JACK NUT		3
4	5100052077	HOOK HOLDER		1
5	*****	GUARD BOARD		1

* No.5 is a waste board of the FRONT JACK BOARD. Refer to the Circuit Board (Front Jack Board) in SERVICE NOTES ENGLISH (2/2).

View G1

No.	Part Code	Part Name	Description	Q'ty
z	40011312	SCREW 3X8	BINDING TAPTITE P FE BZC	2

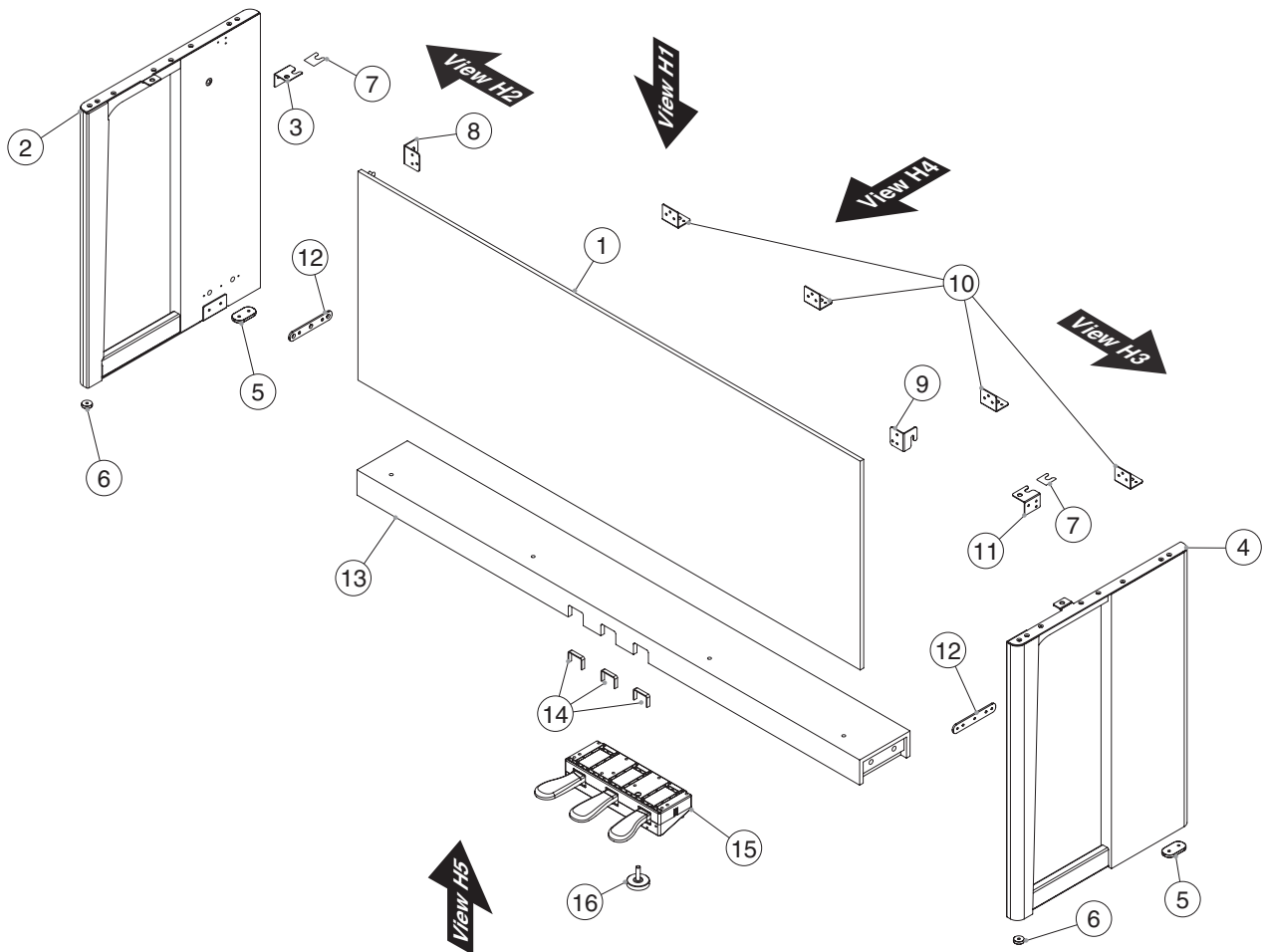
View G2

No.	Part Code	Part Name	Description	Q'ty
i	40011056	SCREW 3X6	BINDING TAPTITE B ZC	12
6	40017378	COATING CLIP	CS-7	3
7	5100054609	WIRING	W10 (LUG-LUG)	1

View G3

No.	Part Code	Part Name	Description	Q'ty
n	40237101	SCREW M3X8	PAN MACHINE W /SW+SMALL PW BZC	2

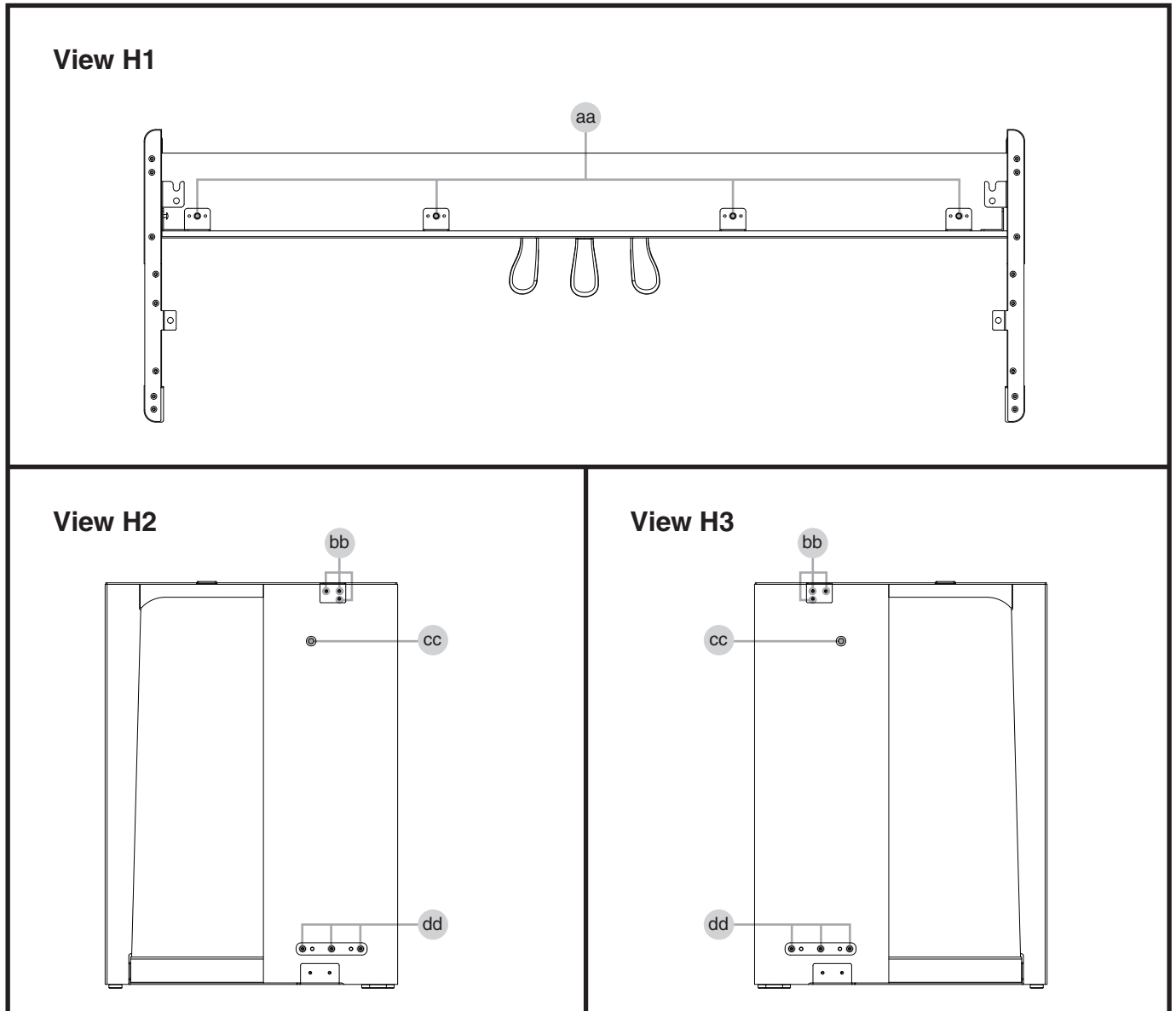
Exploded View (Fig. H)



Exploded View (Fig. H) Parts List

No.	Part Code	Part Name	Description		Q'ty
1	5100065220	REAR BOARD		for DR	1
	5100065221	REAR BOARD		for LA	1
	5100065222	REAR BOARD		for WH	1
	5100065219	REAR BOARD		for CH	1
2	5100068007	SIDE BOARD L ASSY	FOR SERVICE	for DR	1
	5100068005	SIDE BOARD L ASSY	FOR SERVICE	for LA	1
	5100068003	SIDE BOARD L ASSY	FOR SERVICE	for WH	1
	5100068009	SIDE BOARD L ASSY	FOR SERVICE	for CH	1
3	5100051350	JOINT HOLDER L			1
4	5100068008	SIDE BOARD R ASSY	FOR SERVICE	for DR	1
	5100068006	SIDE BOARD R ASSY	FOR SERVICE	for LA	1
	5100068004	SIDE BOARD R ASSY	FOR SERVICE	for WH	1
	5100068010	SIDE BOARD R ASSY	FOR SERVICE	for CH	1
5	5100062608	LEG ESCUTCHEON B			2
6	5100062607	LEG ESCUTCHEON A			2
7	5100051245	HOLDER CUSHION			2
8	5100062615	SP HOLDER L			1
9	5100062616	SP HOLDER R			1
10	5100051346	SP-BOX ANGLE			4
11	5100051351	JOINT HOLDER R			1
12	5100051979	PEDAL BOARD HOLDER			2
13	5100065224	PEDAL BOARD		for DR	1
	5100065225	PEDAL BOARD		for LA	1
	5100065226	PEDAL BOARD		for WH	1
	5100065223	PEDAL BOARD		for CH	1
14	5100046541	PEDAL BOARD FELT			3
15	5100063383	PEDAL UNIT	W/ ADJUST BOLT		1
		* This unit includes the following parts.			
16	5100062685	ADJUST BOLT			1

Plain View (1) (Fig. H)



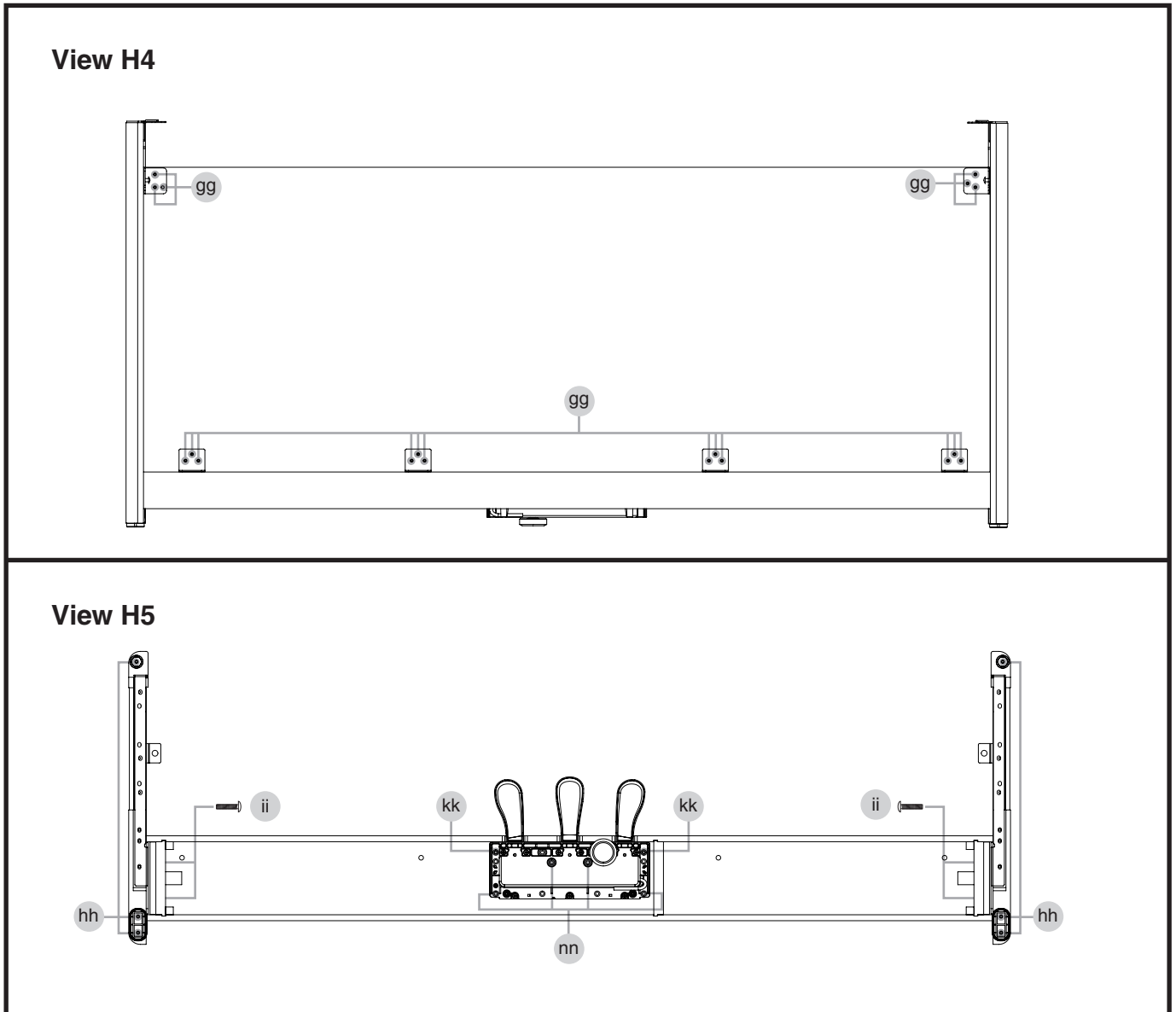
View H1

No.	Part Code	Part Name	Description	Q'ty
aa	40679101	SCREW M5X20	TRUSS MACHINE FE BZC	4

View H2, H3

No.	Part Code	Part Name	Description	Q'ty
bb	40010678	SCREW 4X20	TRUSS TAPPING A FE BZC	6
cc	40784167	SCREW M5X20	PAN MACHINE W/SW FE BZC	2
dd	40677190	SCREW 4X20	FLAT TAPPING A FE BZC	6

Plain View (2) (Fig. H)



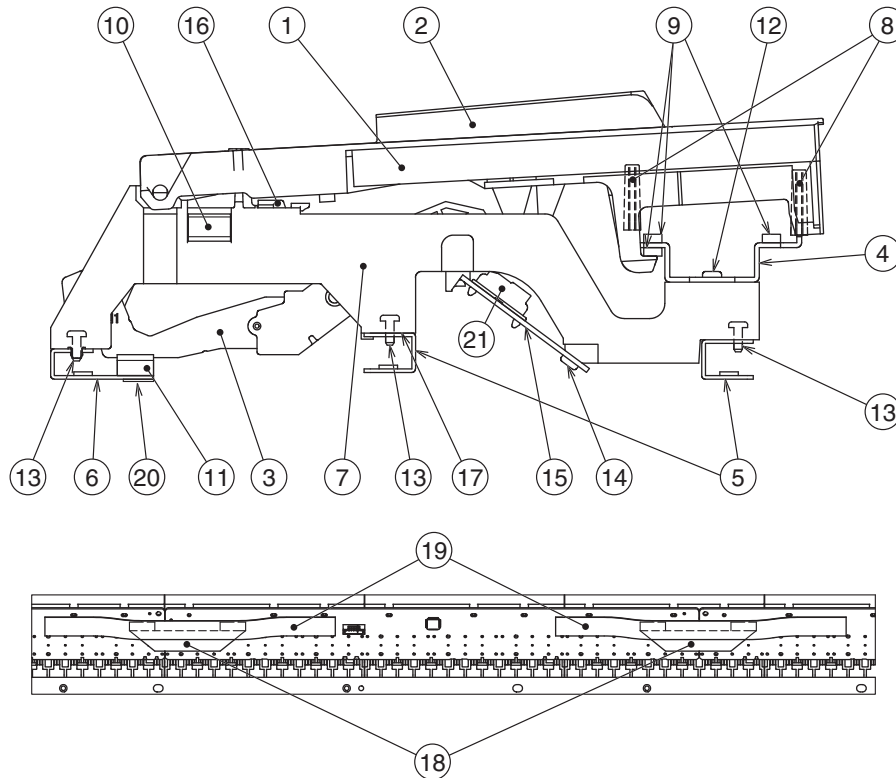
View H4

No.	Part Code	Part Name	Description	Q'ty
gg	40010645	SCREW 4X8	TRUSS TAPPING A FE BZC	18

View H5

No.	Part Code	Part Name	Description	Q'ty
hh	40010690	SCREW 4X30	TRUSS TAPPING A FE BZC	6
nn	40017634	SCREW 4X40	TRUSS TAPPING A FE BZC	4
kk	40782023	SCREW M4X40	PAN MACHINE W/SW ZC	2
ii	5100052202	SCREW M5X40	ORIGINAL TRUSS TC BZC	4

Keyboard Parts List (PHA-50B)

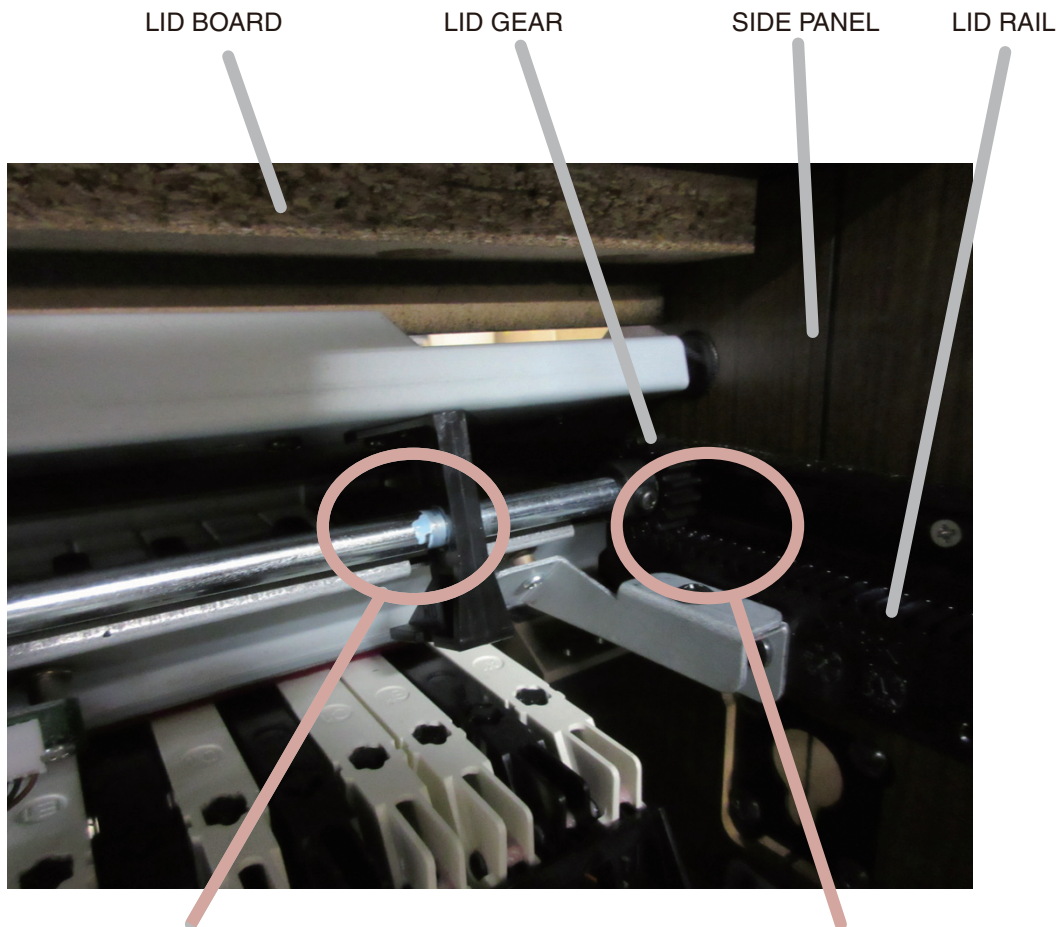


No.	Part Code	Part Name	Description	Q'ty
	5100054675	KEYBOARD ASSY	PHA-50B	1
1	5100051424	N-KEY A		7
	5100051425	N-KEY B		8
	5100051426	N-KEY C		7
	5100051427	N-KEY D		7
	5100051428	N-KEY E		7
	5100051429	N-KEY F		7
	5100051430	N-KEY G		7
	5100051431	N-KEY A-DASH		1
	5100051433	N-KEY C-DASH		1
2	5100049493	SHARP KEY		36
3	5100051416	N-KEY HAMMER-1		14
	5100051417	N-KEY HAMMER-2		14
	5100051418	N-KEY HAMMER-3		14
	5100051419	N-KEY HAMMER-4		10
	5100051420	S-KEY HAMMER-1		10
	5100051421	S-KEY HAMMER-2		10
	5100051422	S-KEY HAMMER-3		10
	5100051423	S-KEY HAMMER-4		6
4	5100049563	GUIDE HOLDER 88P		1
5	5100049564	ANGLE A 88P		2
6	5100049565	ANGLE B 88P		1
7	5100049482	SUB CHASSIS 12P		7
	5100049483	SUB CHASSIS 4P		1
8	5100049494	GUIDE BUSHING		88
9	5100042814	KEY CUSHION A		3
10	5100046211	HAMMER STOP CUSHION B		1
11	5100042815	HAMMER LEVEL CUSHION A		1
12	40011312	SCREW 3X8	BINDING TAPTITE P FE BZC	23
13	40011067	SCREW 3X8	BINDING TAPTITE B FE ZC	82
14	40011267	SCREW 3X6	BINDING TAPTITE P FE ZC	22
15	5100057445	PWB ASSY SET	(PHA-50B)	1
16	5100042103	JACK 12P		8
17	40122901	DOUBLE-FACED TAPE	#501F W10MM 20M 20P (CM)	-
18	04566367	WIRING	20624 FWR-P=1.00-K-20-120	2
19	40122645	NITTO FILAMENT TAPE	#3883 W19MM 50M 60P (CM)	-
20	40122612	ACETATE TAPE	NITTO #5 BLACK W10MM 30M 20P	-
21	5100042102	RUBBER SWITCH	12P	8

* The cable (#5100065674) isn't included in this unit (#5100054675).

* For disassembly and maintenance of keyboard, refer to the Service Notes for PHA-50/PHA-50B.

Greasing Point



17042113 GREASE FOR KEY
FLOIL G-424F 10 CC
Apply the grease to right and left side,
and move LID for spreading grease
equally around the LID GEAR.

17042116 GREASE FOR LID RAIL
FLOIL G-953 5CC (PINK)
The grease must be applies to the place
which is in contact with LID GEAR uniformly.

Disassembly Procedure

NOTE

- Be sure that operations are carried out by two or more persons.
- When disassembling the unit, a table or stand for temporary placement of the unit may become necessary. To ensure safe operations, we recommend providing a table or stand assured of supporting 45 kg or more, and space measuring at least 3 m wide.
- To prevent accidents, when performing disassembly of the unit, be sure to first switch off the power to the unit and unplug the power cord.
- When moving or transporting the unit, first close the keyboard cover. Fold down the music rest. Next, rotate the adjuster located below the pedals to raise it. After completing servicing, rotate the adjuster so that it contacts the floor.

* To remove the main components, disassemble in the sequence described below. After completing servicing, take care to ensure that the wiring is restored to its original state and placement. Tightly re-secure all removed hardware fixtures.

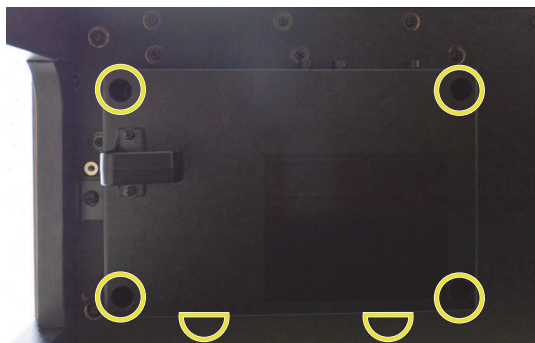
Detaching the Main Board and the Front Jack Board

The Main Board and the Front Jack Board are in the Front Jack Case on the left side of the unit's bottom board. When exchanging these circuit boards, detach the Front Jack Case.

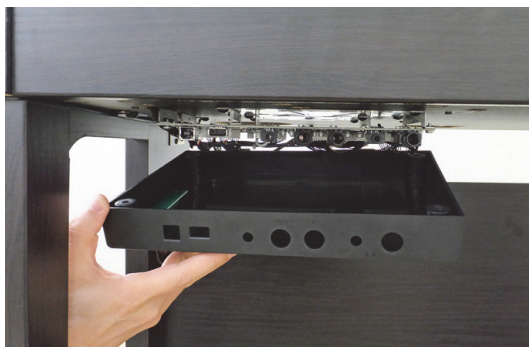
1. Remove the 3 Jack Nuts securing the Front Jack Board.



2. Remove the 6 screws securing the Front Jack Case. (Plain View (Fig. A) (1) (p. 12), C1 in View A2)



3. Detach the Front Jack Case.

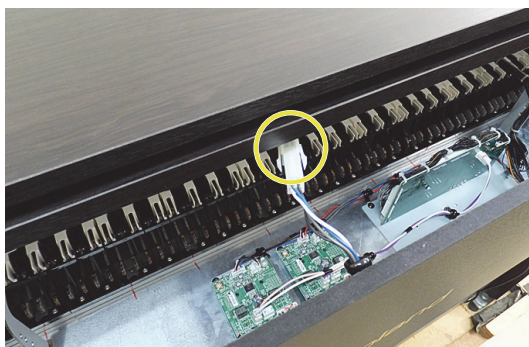


Detaching the Top Board

1. Remove the 4 screws from the back. (Exploded View (Fig. A) (p. 10), e-1 in View A1)



2. Slide the Top Board toward the front and disconnect the connector for the tweeter cable at the center of the unit, then lift the Top Board.



Detaching the Score Stopper

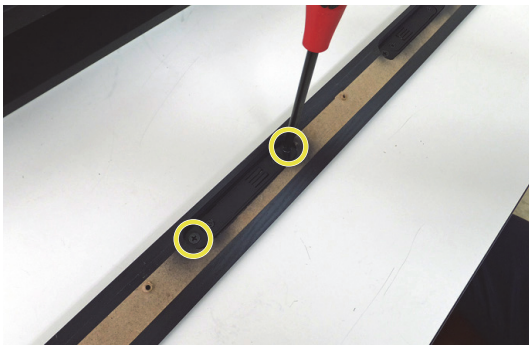
1. Detach the Top Board (as described earlier).
2. Remove the 11 screws from the Upper Blind and detach it from the Top Board. (Plain View (Fig. B) (p. 18), u in View B3)



3. Remove the 5 screws securing the Top Board in place from underneath. (Plain View (Fig. B) (p. 18), h in View B2)



4. Remove the 2 screws securing the Music Stopper in place from underneath and detach the Score Stopper.



Detaching the Lid Board

1. Detach the Top Board (as described earlier).
2. Remove the screws (1 each on the left and right) securing the Lid Rail Stopper in place, and detach the Lid Rail Stopper. (Exploded View (Fig. E) (p. 24), z in View E2 and Exploded View (Fig. F) (p. 26), z in View F2)



3. Line up with the notch in the gear and lift up the Lid Board.

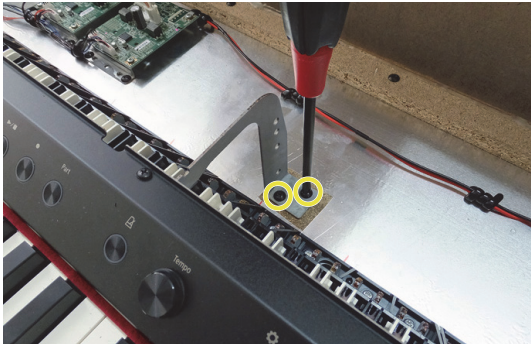


4. Angle the Lid Board diagonally front to back and detach the guide from the rail.

* Be careful not to scratch the Side Panel at this time.

Detaching the Front Panel

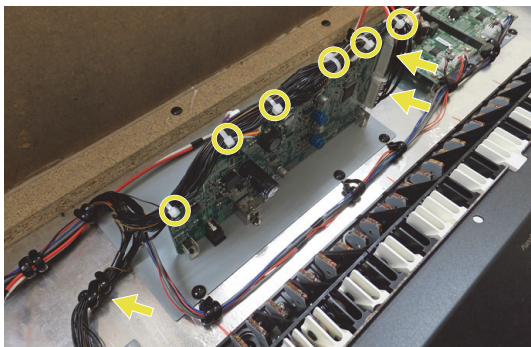
1. Detach the Top Board (as described earlier).
2. Detach the Lid Board (as described earlier).
3. Remove the screws (2 each on the left and right) securing the Center Holder. (Plain View (Fig. A) (1) (p. 12), c in View A3)



4. Remove the screws (1 each on the left and right) securing Side Angles L and R in place from above. (Plain View (Fig. A) (1) (p. 12), g in View A3)



5. Detach the wirings from the PMIC Board (2 locations) and cut the cable ties (6 locations), then loose the coating clip (1 location).



6. Detach the Front Panel.



Detaching the End Block

1. Detach the Top Board (as described earlier).
2. Detach the Lid Board (as described earlier).
3. Detach the Front Panel (as described earlier).
4. Remove the screws (2 each on the left and right) securing the End Blocks in place from underneath. (Plain View (Fig. A) (1) (p. 12), e-4 in View A2)

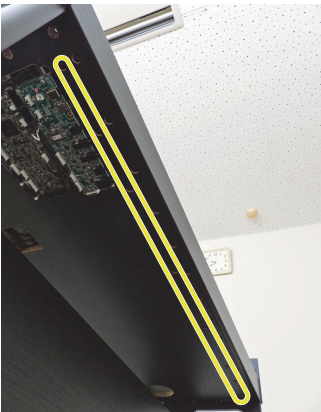


Detaching the Keyboard

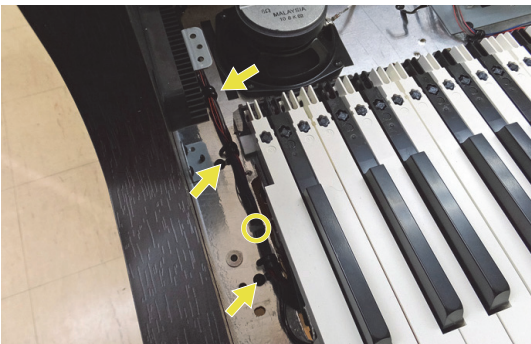
1. Detach the Top Board (as described earlier).
2. Detach the Lid Board (as described earlier).
3. Detach the Front Panel (as described earlier).
4. Detach the left and right End Blocks (as described earlier).
5. Remove the 15 screws securing the keyboard in place from above. (Plain View (Fig. A) (1) (p. 12), c-1 in View A4)



6. Remove the 8 screws securing the keyboard in place from underneath. (Plain View (Fig. A) (1) (p. 12), e-3 in View A2)



7. Slide the keyboard to the right side slightly and loose the coating clips (3 locations), then cut the cable tie (1 location).



8. Lift the keyboard and peel off the acetate tape fixing the wiring connected to the Main Board, then disconnect the wiring.

* Never reuse the acetate tape (#40232123) or the double-sided tape (#40122556) if they are peeled off once. Affix the new tape.



9. Detach the keyboard.

Detaching the Side Panel

1. Disconnect the speaker cable and the pedal cord at the bottom of Bottom Board.
2. Detach the Top Board (as described earlier).
3. Detach the Lid Board (as described earlier).
4. Detach the Front Panel (as described earlier).
5. Remove the screws (1 each on the left and right) securing the unit and stand in place (Exploded View (All) (p. 8), a in View 1), and detach the unit from the stand.



* When detaching or installing the unit, take care not to damage the Front Jack Case on the left side of the bottom panel.

The power switch is located on the Side Panel L.

When removing the Side Panel L, before advancing to the procedure described below, remove the 2 screws securing the Lid SW Holder in place and detach the power switch.



- 6. Remove the screws (3 each on the left and right) securing the unit in place from underneath. (Plain View (Fig. A) (1) (p. 12), e-2 in View A2)



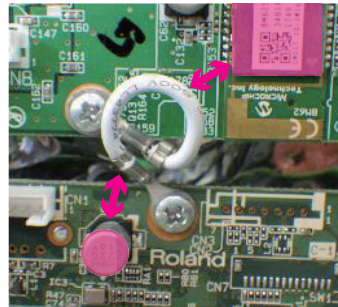
- 7. Remove the screws (2 each on the left and right) securing the unit in place from the back. (Exploded View (Fig. A) (p. 10), e-2 in View A1)



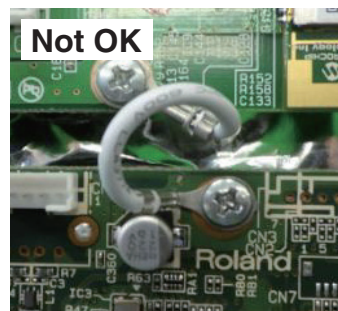
The Side Panel may fall when the screws are removed. To prevent them from falling, support them by hand when you carry out this operation.

Important Notes on Assembly

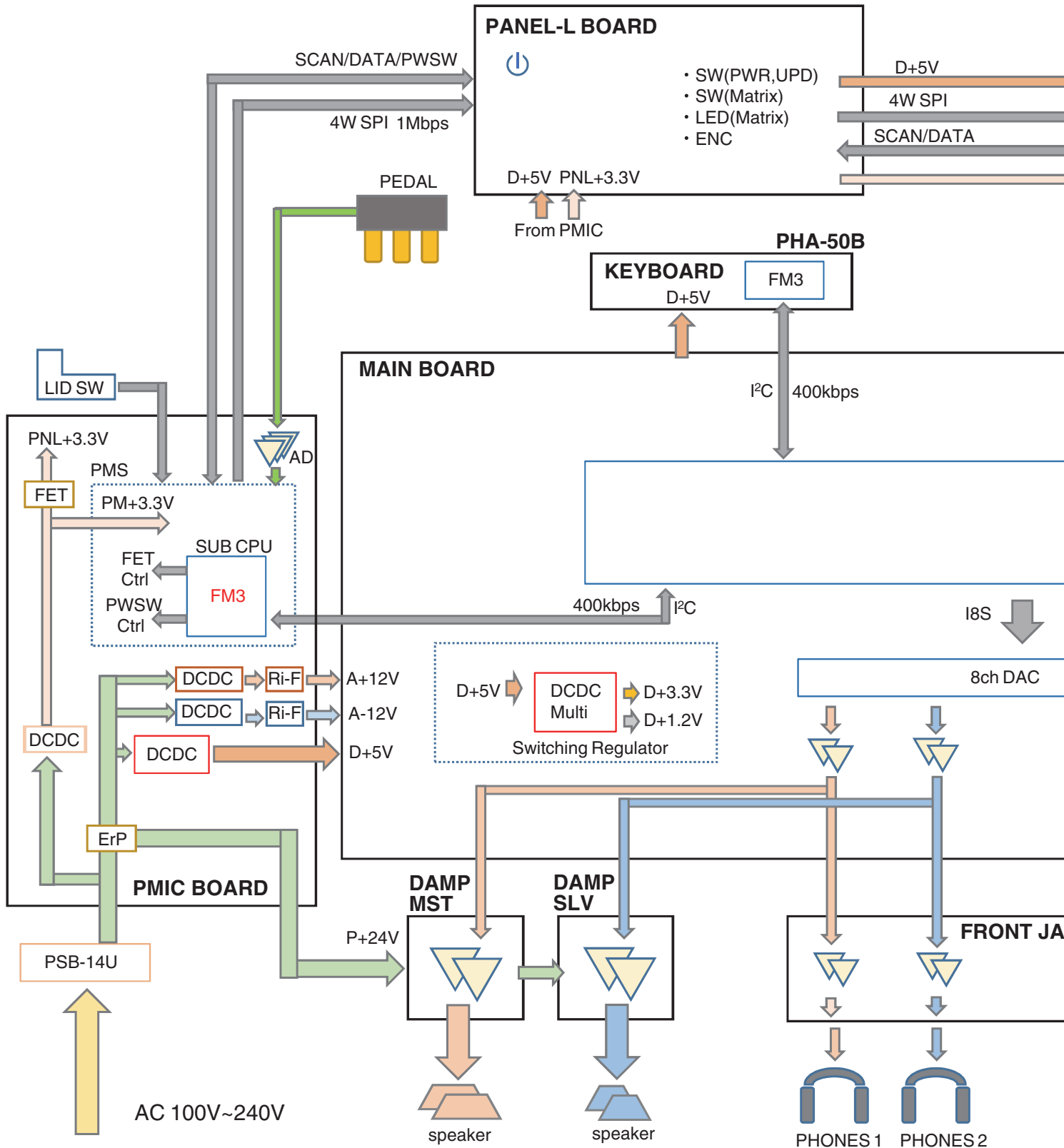
Give attention to the following point about the wiring (#5100054609) that is securing the Main Board and the Front Jack Board.

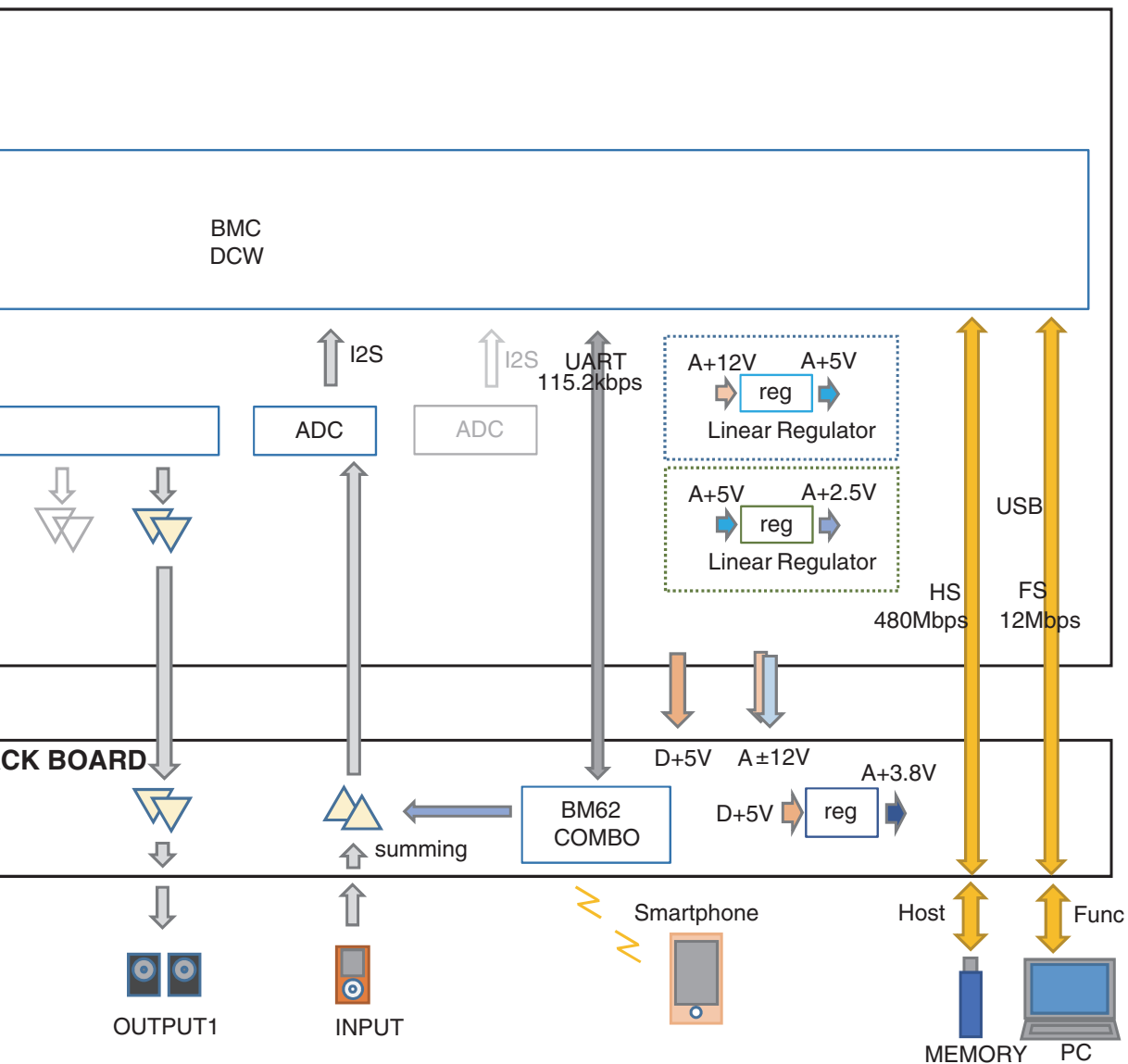
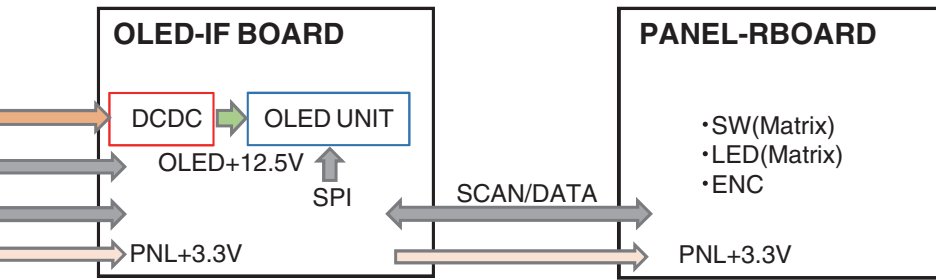


Secure the wiring so as not to come near the locations shown with pink in the figure.

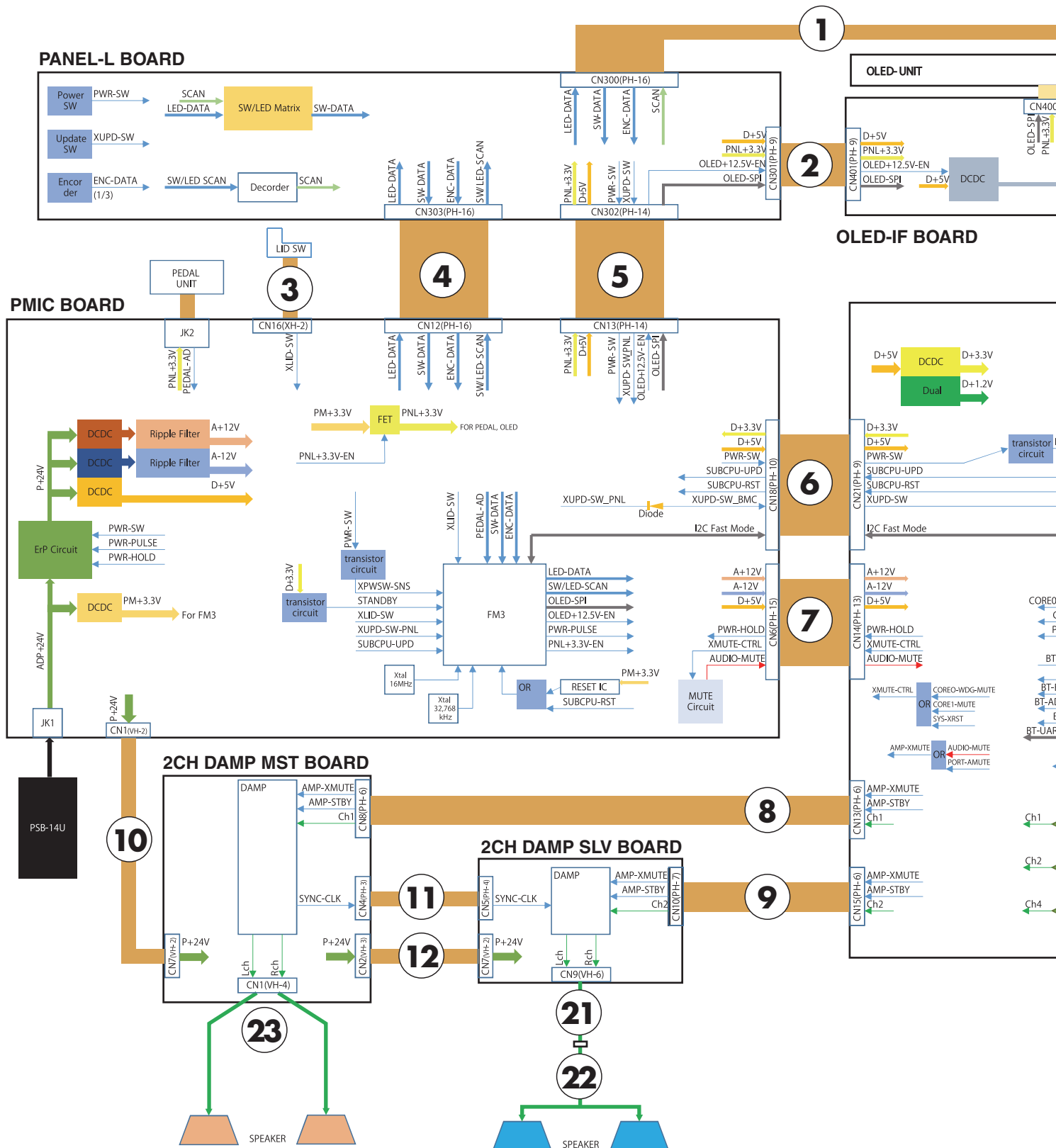


Block Diagram

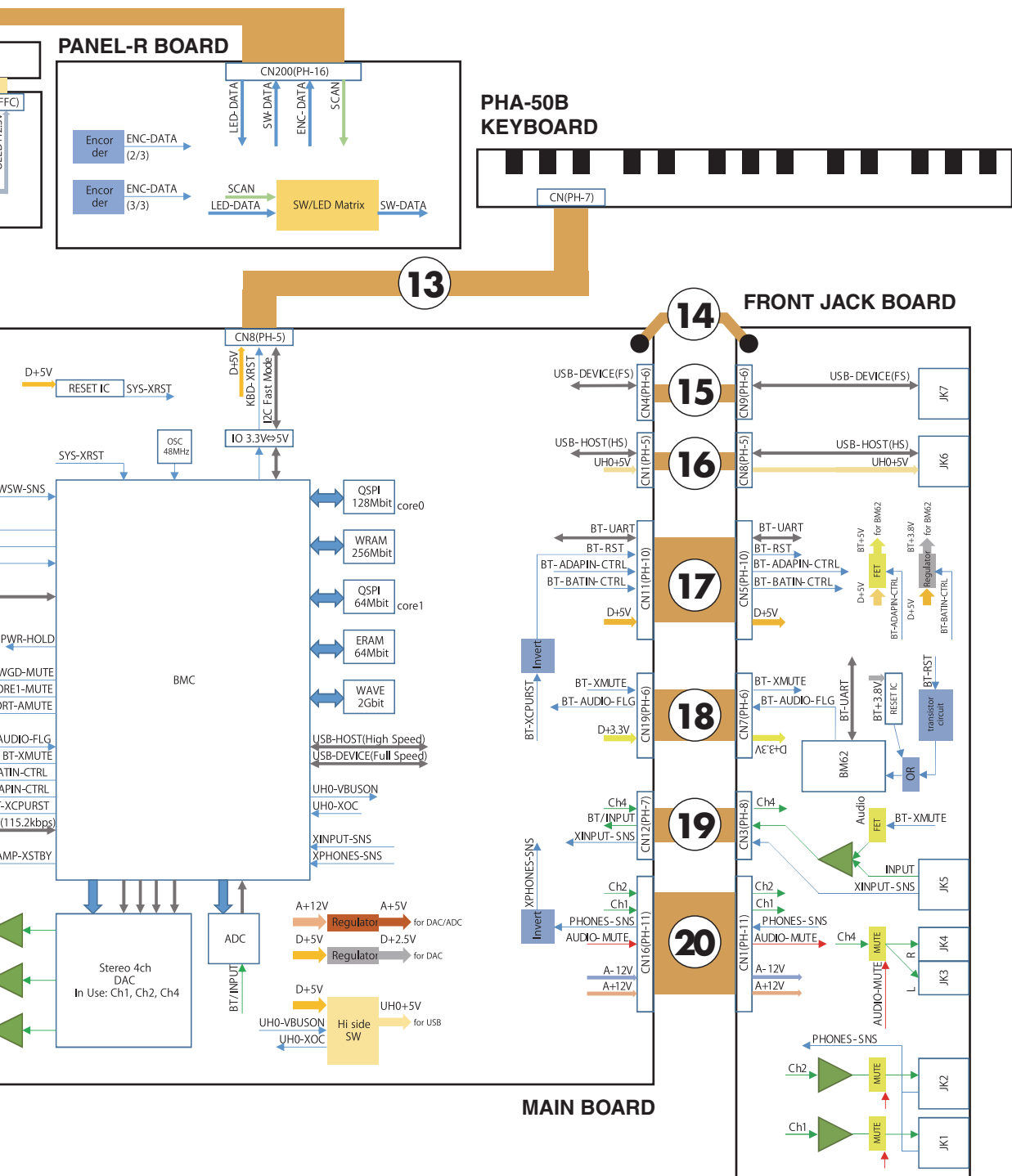




Wiring Diagram



No.	Part Code	Part Name	Description	Q'ty
1	5100063424	WIRING	W04 (PANEL-L-R)	1
2	5100063423	WIRING	W03 (PANEL-L-OLED)	1
3	5100065671	WIRING	W06 (LID)	1
4	5100065665	WIRING	1061#28 16X620-PHR-PHR-F	1
5	5100065664	WIRING	1061#28 14X710-PHR-PHR-F	1
6	5100065662	WIRING	W01 (MAIN-PMIC)	1
7	5100065663	WIRING	W02 (MAIN-PMIC PW)	1
8	5100065669	WIRING	W04 (MAIN-DAMP-M)	1
9	5100065670	WIRING	W05 (MAIN-DAMP-S)	1



No.	Part Code	Part Name	Description	Q'ty
10	5100065672	WIRING	W07 (PMIC-DAMP-M)	1
11	5100063441	WIRING	W13 (DAMP-DAMP CLK)	1
12	5100063440	WIRING	W12 (DAMP-DAMP PW)	1
13	5100065674	WIRING	W09 (KEY)	1
14	5100054609	WIRING	W10 (LUG-LUG)	1
15	5100063425	WIRING	W05 (USB-F)	1
16	5100063426	WIRING	W06 (USB-H)	1
17	5100065666	WIRING	1061#28 10X230-PHR-PHR-F	1
18	5100063428	WIRING	1061#28 6X60-PHR-PHR-F	1
19	5100065667	WIRING	W03 (MAIN-FJACK)	1
20	5100065668	WIRING	1061#28 11X150-PHR-PHR-F	1
21	5100065675	WIRING	W10 (DAMP-B-RELAY)	1
22	5100065676	WIRING	W11 (RELAY-SP)	1
23	5100065673	WIRING	W08 (DAMP-A-SP)	1

Parts List (HP704)

Due to one or more of the following reasons, parts with parts code ***** cannot be supplied as service parts.

- Supply is prohibited due to copyright restrictions.
- It is carried in electronic data on the Roland web site.
- The part is made to order (at current market price).
- It is a package or an accessory irrelevant to the function maintenance of the main body.
- Reissuance is restricted.
- It is supplied as an assembled part (under a different part code).
- It can be replaced with an article on the market. (battery or etc.)
- A number of circuit boards are grouped together and supplied as a single circuit board (under a different part code).

Note: The parts marked # are new. (initial parts) The description "Qty" means a necessary number of the parts per one product.

CASING

#	5100064892	TOP BOARD		for DR	1
#	5100064908	MUSIC REST		for DR	1
#	5100064904	UPPER BLIND		for DR	1
#	5100067982	SIDE PANEL L	FOR SERVICE	for DR	1
#	5100067983	SIDE PANEL R	FOR SERVICE	for DR	1
	5100062532	LOWER BLIND		for DR	1
	5100051981	END BLOCK		for DR	2
	5100062524	LID BOARD		for DR	1
	5100062713	LID BLIND		for DR	1
	5100062528	LID BLIND COVER		for DR	1
#	5100065130	LID ANGLE COVER		for DR	1
#	5100064912	REAR PANEL		for DR, CH	1
#	5100064893	TOP BOARD		for LA	1
#	5100064909	MUSIC REST		for LA	1
#	5100064905	UPPER BLIND		for LA	1
#	5100067984	SIDE PANEL L	FOR SERVICE	for LA	1
#	5100067985	SIDE PANEL R	FOR SERVICE	for LA	1
	5100062533	LOWER BLIND		for LA	1
	5100051980	END BLOCK		for LA, CH	2
	5100062525	LID BOARD		for LA	1
	5100062715	LID BLIND		for LA	1
	5100062529	LID BLIND COVER		for LA	1
#	5100065131	LID ANGLE COVER		for LA	1
#	5100064913	REAR PANEL		for LA	1
#	5100064894	TOP BOARD		for WH	1
#	5100064910	MUSIC REST		for WH	1
#	5100064906	UPPER BLIND		for WH	1
#	5100067986	SIDE PANEL L	FOR SERVICE	for WH	1
#	5100067987	SIDE PANEL R	FOR SERVICE	for WH	1
#	5100065135	LOWER BLIND		for WH	1
	5100051982	END BLOCK		for WH	2
#	5100065133	LID BOARD		for WH	1
	5100062714	LID BLIND		for WH	1
#	5100065134	LID BLIND COVER		for WH	1
#	5100065132	LID ANGLE COVER		for WH	1
#	5100064914	REAR PANEL		for WH	1
#	5100064891	TOP BOARD		for CH	1
#	5100064907	MUSIC REST		for CH	1
#	5100064903	UPPER BLIND		for CH	1
#	5100067988	SIDE PANEL L	FOR SERVICE	for CH	1
#	5100067989	SIDE PANEL R	FOR SERVICE	for CH	1
	5100062531	LOWER BLIND		for CH	1
	5100062523	LID BOARD		for CH	1
	5100062699	LID BLIND		for CH	1
	5100062527	LID BLIND COVER		for CH	1
#	5100065129	LID ANGLE COVER		for CH	1
	5100063824	LID SIDE COVER L			1
	5100063825	LID SIDE COVER R			1
#	5100065196	FRONT PANEL DOM		for DR, LA, for Japan	1
#	5100065200	FRONT PANEL DOM		for WH, for Japan	1
#	5100065197	FRONT PANEL EXP		for DR, LA, CH for other than Japan	1
#	5100065201	FRONT PANEL EXP		for WH, for other than Japan	1
#	5100067979	BOTTOM BOARD ASSY	FOR SERVICE	for DR, LA, WH, CH	1
	5100062356	FRONT JACK CASE			1
	5100052189	SPEAKER COVER			2

CHASSIS

	5100051973	ANGLE			16
	5100052375	ARM STAY			2
	5100053090	BLIND ANGLE			1
	5100067990	BLIND ANGLE	W/GRILLE CLOTH	for DR, CH	1
	5100067991	BLIND ANGLE	W/GRILLE CLOTH	for LA	1
	5100067992	BLIND ANGLE	W/GRILLE CLOTH	for WH	1
	5100055890	BRACKET			2
	5100062620	CENTER HOLDER			2
	5100065333	END BLOCK HOLDER			2

CHASSIS				
	04785534	HINGE		2
#	5100064915	JACK BOARD HOLDER		1
	5100062335	JACK BOARD HOLDER		1
	5100062610	LID ANGLE		1
	5100062609	LID SW HOLDER		1
	5100062336	MAIN BOARD HOLDER		8
#	5100064917	REAR JACK HOLDER		1
	5100062613	SIDE ANGLE L		1
	5100062614	SIDE ANGLE R		1
	5100062606	SW STAY		1
	04452445	TW HOLDER		2
KNOB, BUTTON				
	5100062316	KEYTOP	for DR, LA, CH	16
	5100062317	KEYTOP	for WH	16
	5100062319	R-KNOB	for DR, LA, CH	3
	5100062320	R-KNOB	for WH	3
SWITCH				
	5100051117	PUSH SWITCH	SDKNA20700	1
	02781634	TACT SWITCH	SKRGAED010	16
JACK, EXT TERMINAL				
	04452945	3.5MM JACK	YKB21-5344N	2
	13449252	6.5MM JACK	YKB21-5006 (STEREO W/SW)	1
	13449275	6.5MM JACK	YKB21-5074	2
	5100024850	DC JACK	HEC3800-01-010	1
	5100061609	MINI DIN CONNECTOR	YKF51-5448N	1
	04459190	USB CONNECTOR A TYPE FEMALE	YKF45-0033N	1
	5100009531	USB CONNECTOR B TYPE FEMALE	YKF45-0044N	1
DISPLAY UNIT				
	5100061157	OLED	9OL9925711000	1
SPEAKER, BUZZER				
	5100061677	SPEAKER	FR-5+1IN-08-CL11C	2
#	5100064528	SPEAKER	TW-2IN-08-CH76C	2
KEYBOARD ASSY				
	5100054675	KEYBOARD ASSY	PHA-50B	1
PWB ASSY				
#	5100052931	MAIN BOARD ASSY		1
	5100061656	FRONT JACK BOARD ASSY		1
	5100061653	PMIC BOARD ASSY		1
	5100052937	2CH DAMP MST BRD ASSY		1
	5100052938	2CH DAMP SLV BRD ASSY		1
	5100061654	PANEL SHEET ASSY		1
	* This unit includes the following parts.			
	*****	PANEL-L BOARD		1
	*****	PANEL-R BOARD		1
	*****	OLED-IF BOARD		1
ENCODER				
	04346790	ROTARY ENCODER	EVEJBHF1520B	3
WIRING, CABLE				
	5100063428	WIRING	1061#28 6X60-PHR-PHR-F	1
#	5100065666	WIRING	1061#28 10X230-PHR-PHR-F	1
#	5100065668	WIRING	1061#28 11X150-PHR-PHR-F	1
#	5100065664	WIRING	1061#28 14X710-PHR-PHR-F	1
#	5100065665	WIRING	1061#28 16X620-PHR-PHR-F	1
#	5100065662	WIRING	W01 (MAIN-PMIC)	1
#	5100065663	WIRING	W02 (MAIN-PMIC PW)	1
#	5100065667	WIRING	W03 (MAIN-FJACK)	1
	5100063423	WIRING	W03 (PANEL-L-OLED)	1
#	5100065669	WIRING	W04 (MAIN-DAMP-M)	1
	5100063424	WIRING	W04 (PANEL-L-R)	1
#	5100065670	WIRING	W05 (MAIN-DAMP-S)	1
	5100063425	WIRING	W05 (USB-F)	1
#	5100065671	WIRING	W06 (LID)	1
	5100063426	WIRING	W06 (USB-H)	1
#	5100065672	WIRING	W07 (PMIC-DAMP-M)	1
#	5100065673	WIRING	W08 (DAMP-A-SP)	1
#	5100065674	WIRING	W09 (KEY)	1

WIRING, CABLE				
#	5100065675	WIRING	W10 (DAMP-B-RELAY)	1
	5100054609	WIRING	W10 (LUG-LUG)	1
#	5100065676	WIRING	W11 (RELAY-SP)	1
	5100063440	WIRING	W12 (DAMP-DAMP PW)	1
	5100063441	WIRING	W13 (DAMP-DAMP CLK)	1
SCREWS				
	40563612	SCREW 2.6X8	FLAT TAPPING A BROWN BRONZE	12
	40239401	SCREW 3.5X8	BINDING TAPPING A BZC	36
	40010789	SCREW 3X10	BINDING TAPPING A FE BZC	8
	40563023	SCREW 3X16	FLAT TAPPING A ZC	8
	40011056	SCREW 3X6	BINDING TAPTITE B ZC	36
	40011312	SCREW 3X8	BINDING TAPTITE P FE BZC	6
	40011101	SCREW 3X8	BINDING TAPTITE B BZC	14
	40127545	SCREW 4X10	TRUSS TAPPING A FE BZC	66
	40010656	SCREW 4X12	TRUSS TAPPING A FE BZC	26
	40012145	SCREW 4X14	TRUSS TAPPING A FE BZC	26
	40010678	SCREW 4X20	TRUSS TAPPING A FE BZC	17
	40564767	SCREW 4X20	VWH TAPTITE B W12.5 BZC	39
	40010689	SCREW 4X25	TRUSS TAPPING A FE BZC	8
	40011123	SCREW 4X8	BINDING TAPTITE B FE BZC	2
	40238501	SCREW 4X8	BINDING TAPTITE P FE BZC	12
	40010645	SCREW 4X8	TRUSS TAPPING A FE BZC	11
	40012967	SCREW M3X10	PAN MACHINE W/SW+PW(7.8MM) BZC	2
	40237101	SCREW M3X8	PAN MACHINE W/SW+SMALL PW BZC	6
	40238356	SCREW M4X10	FLAT TAPPING BZC	8
	01906367	SHOULDER SCREW	1065	2
	5100052079	JACK NUT		3
	40569512	WASHER T1X3.2X6		2
	5100063822	POM WASHER 3.2X6XT2	BLACK	2
MISCELLANEOUS				
#	5100065176	MUSIC STOPPER		for DR 1
#	5100065177	MUSIC STOPPER		for LA 1
#	5100065178	MUSIC STOPPER		for WH 1
#	5100065175	MUSIC STOPPER		for CH 1
	5100063854	SCORE STOPPER ASSY		for DR, LA, CH 1
	5100063855	SCORE STOPPER ASSY		for WH 1
	5100062362	DISPLAY COVER		1
#	5100064916	PROP		1
	5100052077	HOOK HOLDER		1
	5100062361	KEYTOP ESCUTCHEON		16
	5100062499	LED ISOLATOR		4
	5100064797	LED ISOLATOR 4P		2
	5100064798	LED ISOLATOR 5P		1
	5100051975	LID GEAR		2
	5100046655	LID GUIDE BUSH		2
	5100062604	LID RAIL		2
	5100051974	LID RAIL STOPPER		2
	5100052170	LID SHAFT		1
	5100062605	LID SHAFT STAY BUSH		3
	5100047126	LID BLIND CUSHION		2
	5100063953	PROP CUSHION		2
	5100052176	END BLOCK FELT		2
	03012323	KEY FELT		1
	5100062365	SPRING		16
	40455345	FREE CAP 8 BLK		4
	22285342	CONNECTING PIN	228-342	2
	5100047120	GUIDE PIN		2
	40017378	COATING CLIP	CS-7	38
	40016523	INSULOK TIE 100M/M T-18R	(1000 PCS ORDERING PER)	27
	40122612	ACETATE TAPE	NITTO #5 BLACK W10MM 30M 20P	-
	40232123	ACETATE TAPE	NITTO #5 BLACK W20MM 30M 20P	-
	40122556	DOUBLE FACED ADHESIVE TAPE	#575X W30MM 30M	-
	5100021076	DOUBLE SIDED ADHESIVE TAPE	NITTO #5000NS W5MM	-
	17041428	GREASE FOR KEY	FLOIL CR-125L WHITE 100CC	-
	17041858	GREASE FOR KEY	MOLYKOTE G-1039 (50 GRAM)	-
	17042034	GREASE FOR KEY	MOLYKOTE PG-661(W) 50CC	-
	17042116	GREASE FOR LID RAIL	FLOIL G-953 5CC (PINK)	-
	17042113	GREASE(WHITE)	FLOIL G-424F 10 CC	-
ACCESSORIES (Standard)				
	5100047497	AC ADAPTOR	PSB-14U 2	1
	5100048283	AC CORD SET	100V EYEGLASS ARK-VFF 1.0M	(19) for 100V 1
	02562456	AC CORD SET	120V 1.0M (NON POLAR)	(22, 23, 28) for 117VU, 117VASIA, 117VU/CS 1
	5100012293	AC CORD SET	117VBL 1.0M FOR PSB	(26) for 117VBL 1
	01903356	AC CORD SET	230V 1.0M FOR PSB	(38) for 230VE/EU 1
	5100018086	AC CORD SET	230VE 1.0M FOR EPS	(38) for 230VE/EU 1
	5100033404	AC CORD SET	240V SP501-IS037 PSB 1.0M	(59) for 240VA 1

ACCESSORIES (Standard)

	5100019558	AC CORD SET	220V CCC SP505A-IS037 1.0M	(65) for 220VCN	1
	5100039367	AC CORD	SP021A+IS037 220VK 2.5M 2P	(66) for 220VK	1
	5100028675	HEAD-PHONE	RH-25A (SERVICE ONLY)	only for Japan	1
#	5100064209	OWNER'S MANUAL	JAPANESE		1
#	5100064208	OWNER'S MANUAL	MULTILANGUAGE		1
#	5100064210	OWNER'S MANUAL	CHINESE		1
	5100064269	SONGBOOK PIANO MASTERPIECES	JAPANESE		1
	5100064270	SONGBOOK PIANO MASTERPIECES	ENGLISH		1

Parts List (KSH704/2)**CASING**

#	5100068007	SIDE BOARD L ASSY	FOR SERVICE	for DR	1
#	5100068008	SIDE BOARD R ASSY	FOR SERVICE	for DR	1
#	5100065220	REAR BOARD		for DR	1
#	5100065224	PEDAL BOARD		for DR	1
#	5100068005	SIDE BOARD L ASSY	FOR SERVICE	for LA	1
#	5100068006	SIDE BOARD R ASSY	FOR SERVICE	for LA	1
#	5100065221	REAR BOARD		for LA	1
#	5100065225	PEDAL BOARD		for LA	1
#	5100068003	SIDE BOARD L ASSY	FOR SERVICE	for WH	1
#	5100068004	SIDE BOARD R ASSY	FOR SERVICE	for WH	1
#	5100065222	REAR BOARD		for WH	1
#	5100065226	PEDAL BOARD		for WH	1
#	5100068009	SIDE BOARD L ASSY	FOR SERVICE	for CH	1
#	5100068010	SIDE BOARD R ASSY	FOR SERVICE	for CH	1
#	5100065219	REAR BOARD		for CH	1
#	5100065223	PEDAL BOARD		for CH	1

CHASSIS

	5100051350	JOINT HOLDER L			1
	5100051351	JOINT HOLDER R			1
	5100062615	SP HOLDER L			1
	5100062616	SP HOLDER R			1
	5100051346	SP-BOX ANGLE			4
	5100051979	PEDAL BOARD HOLDER			2
	5100063383	PEDAL UNIT	W/ ADJUST BOLT		1

SCREWS

	40010645	SCREW 4X8	TRUSS TAPPING A FE BZC		18
	40677190	SCREW 4X20	FLAT TAPPING A FE BZC		6
	40010678	SCREW 4X20	TRUSS TAPPING A FE BZC		6
	40010690	SCREW 4X30	TRUSS TAPPING A FE BZC		6
	40017634	SCREW 4X40	TRUSS TAPPING A FE BZC		4
	40782023	SCREW M4X40	PAN MACHINE W/SW ZC		2
	40784167	SCREW M5X20	PAN MACHINE W/SW FE BZC		2
	5100062685	ADJUST BOLT			1

MISCELLANEOUS

5100062607	LEG ESCUTCHEON A		2
5100062608	LEG ESCUTCHEON B		2
5100051245	HOLDER CUSHION		2
5100046541	PEDAL BOARD FELT		3
40016523	INSULOK TIE 100M/M T-18R	(1000 PCS ORDERING PER)	2

ACCESSORIES (Standard)


5100046646	PHONES HOOK		1
40126267	SCREW M4X16	PAN MACHINE W/SW+PW FE BZC	2
40679101	SCREW M5X20	TRUSS MACHINE FE BZC	6
# 5100052202	SCREW M5X40	ORIGINAL TRUSS TC BZC	4



Turning On and Off the Power

The power to this model can be turned on or off by opening or closing the lid.

First, connect the AC adaptor (PSB-14U) when the lid is closed. Next, opening the lid turns on the power to the unit and closing the lid turns off the power.




* The power switch is at the left back in the unit.

To turn off the power when the lid opens, continue to hold down  at the left edge of the panel and when **Don't disconnect the power.** is displayed on the screen, release your finger.




* After holding down  and releasing your finger, it takes several seconds until the  LED goes dark.

Press it again to turn on the power.

Verifying the Version

1. Press .
2. Turn  to select **Version**.
3. Press .

The version information is displayed.

When  is turned here, version for **Bluetooth** is displayed, and when  is turned again, version for **Keyboard** is displayed.
4. Press .




The initial screen returns.



Data Backup and Restore Operations

Items Required





- USB memory device

Formatting a USB Memory

1. Connect a USB memory device to the unit's **USB Memory** connector (on the left side of the unit's bottom panel).
2. Press .
3. Turn  to select **Format Media** and press .


The **Format Media** screen appears.
4. Turn  to select **USB Memory** and press .

A confirmation message appears.

5. To execute formatting, turn  to select **Yes** and press . To cancel it, turn  to select **No** and press .

Selecting **Yes** formats the USB memory device.

* Never turn off the power or detach the USB memory device while **Executing...** is displayed on the screen.





6. Press .

The initial screen returns.

Backup Operation

All data including song data and the setting of the unit can be backed up completely by procedure described below.


* However, pairing information of Bluetooth can not be backed up. When returning the product to the customer, request him/her to pair by himself/herself again.



1. Follow **Formatting a USB Memory** (p. 48) to format the USB memory device.
2. Press and hold  to turn off the power.
3. Connect the formatted USB memory device to the unit's **USB Memory** connector (on the left side of the unit's bottom panel).
4. Hold down  and  and press .



Backup All Data is displayed.

* It takes several seconds for detecting the USB memory device.

No USB Memory is displayed until the USB memory device is detected.

5. Press .

A confirmation message appears.
6. To execute the backup operation, turn  to select **Yes** and press .

To cancel it, turn  to select **No** and press .

Selecting **Yes** starts the backup operation.










* Never turn off the power or detach the USB memory device while **Executing...** is displayed on the screen.

Backup Completed. Power off, then on. is displayed, the backup operation has finished.

7. Detach the USB memory device and reset the power.

* If **An error occurred during writing.** is displayed, the backup operation has failed. Replace the USB memory device and carry out the operation again. And also, in consideration of failing in the restoring, we recommend that you may copy the backup data to the computer.



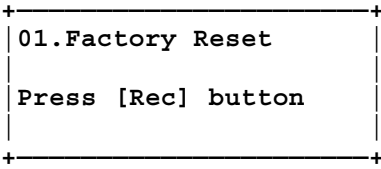

Restore Operation

1. Press and hold  to turn off the power.
2. Connect the USB memory device containing the backed-up data to the unit's **USB Memory** connector (on the left side of the unit's bottom panel).
3. Hold down  and  and press  .
Restore All Data is displayed.
* *It takes several seconds for detecting the USB memory device.
No USB Memory is displayed until the USB memory device is detected.*
4. Press  .
A confirmation message appears.
5. To execute the restore operation, turn  to select **Yes** and press  .
To cancel it, turn  to select **No** and press  .
Selecting **Yes** starts the restore operation.
* *Never turn off the power or detach the USB memory device while **Executing...** is displayed on the screen.
When **Restore Completed. Power off, then on.** is displayed, the restore operation has finished.*
6. Detach the USB memory device and reset the power.
* *If **An error occurred during reading.** is displayed, the restore operation has failed. Replace the USB memory device and copy the backed-up data from the computer, then carry out the restore operation again.*

Performing a Factory Reset

Executing the following procedure erases all song data saved in the internal memory and returns the each setting of the unit to their factory default. By this method, you can get the result same as **06. Factory Reset** (p. 50) in Test Mode.

* *Executing the factory reset can erase the information of the Bluetooth device used for testing. However, the information of the Bluetooth device paired by the customer is also erased. When returning the product to the customer, request him/her to pair by himself/herself again.*



1. Press and hold  to turn off the power.
2. Hold down **Piano** and **Strings** and press  .
Continue to hold down **Piano** and **Strings** until the screen shown below appears.

3. Press  .
Executing... is displayed and the factory reset starts.
When **End Turn off power.** appears, the factory reset has finished.
4. Turn off the power.

Updating the System

Items Required

- Computer
- USB memory device
- Update file (obtained via Service Net)

Procedure

1. Follow **Formatting a USB Memory** (p. 48) to format the USB memory device.
2. Copy the update file (**R075_UPA.BIN**) to the root folder of the formatted USB memory device.
3. Open the lid, and press and hold  to turn off the power to the unit.
4. Connect the USB memory device just described to the unit's **USB Memory** connector (on the left side of the unit's bottom panel).
5. Hold down **PianoDesigner** and press  .
Continue to hold down **PianoDesigner** until **===update===** appears on the screen.
The time required to update is approximately 2 minutes. When the Wave update is included, it needs approximately 30 minutes.
* *Never turn off the power or detach the USB memory device while the update is in progress.*
* *When the Panel CPU is updated while the updating is in progress, the display goes dark and when the update of the Panel CPU is finished, the display lights up again.*

When **=update finished.=** appears, the update has finished.

6. Detach the USB memory device and reset the power.

Test Mode

Items Required

- AC adaptor (PSB-14U)
- Amp-equipped monitor speaker
- Headphones (1/4-inch phone and miniature phone)
- USB memory device
- Cables
- Audio playback device (R-09, etc.)
- Mobile device capable of Bluetooth LE (iPhone or Android)
- Software program capable of Bluetooth MIDI

Entering the Test Mode

Hold down **Piano** and **Other** and press  .


Continue to hold down **Piano** and **Other** until the screen shown below appears.

```



+-----+
| 01.Version      (1/3) |
| HP704 / EXP    |
| PROG:1.01   LOAD:1.00 |
| KBD :1.01   FM3 :1.02 |
+-----+

```

Quitting the Test Mode

Press and hold  to turn off the power.

Skipping the Test Items

Holding down  and pressing  quits the current test item and returns operation to the previous test item.

Holding down  and pressing  quits the current test item and advances operation to the next test item.

Test Items

- 01. Version (p. 50)
- 02. Model Name (p. 50)
- 03. Destination (p. 50)
- 04. BLE Test (p. 50)
- 05. A2DP Test (p. 50)
- 06. Factory Reset (p. 50)
- 07. Encoder Test (p. 51)
- 08. Encoder SW Test (p. 51)
- 09. SW/LED Test (p. 51)
- 10. LED Brightness Test (p. 51)
- 11. Sound Test (p. 52)
- 12. Mute Test (p. 52)
- 13. Pedal AD Test (p. 53)
- 14. USB Test (p. 53)
- 15. Jack Sense Test (p. 53)
- 16. Lid SW Test (p. 53)
- 17. Display Test (p. 53)
- 18. Device Test (p. 53)
- 19. Model/Dest/Version (p. 54)

Test Items in Normal Mode

- 01. IN/OUT Test (p. 54)
- 02. Bluetooth Test (p. 54)

01. Version


All LEDs light up and the Version screen appears.

```

+-----+
| 01.Version      (1/3) |
| HP704 / EXP    |
| PROG:1.01   LOAD:1.00 |
| KBD :1.01   FM3 :1.02 |
+-----+
  
```

1. Verify the model name, destination (**DOM, US** or **EXP**) and the respective version number.

The Program version (**PROG**) manages the versions of Program ROM0/ROM1 and WAVE ROM0/ROM1 in a lump. If these versions do not match, **NG** ("not OK") is displayed.

When the result is not OK, turn  to advance to the third page and verify the contents of the error. For the items of NG ("not OK"), * is displayed next to the version.


When the result is OK, turn  to advance to the second page.

2. Verify the Bluetooth version (**BT**).

* If the Bluetooth module or wiring connections in the unit are faulty, --- is displayed.

```

+-----+
| 01.Version      (2/3) |
| BT :1.00        |
+-----+
  
```


3. Press  to advance to the next test item.

02. Model Name

This makes the setting for the model of the unit being tested.

```

+-----+
| 02.Model Name  |
| ---            |
+-----+
  
```

1. Turn  to select the model.

* Correct model name for the unit being tested is printed on the sticker at the bottom of the Front Jack Case. Select the model name correctly because the Bluetooth function should be enabled or not if the model name has **-L** or not at the end of it.

Without **-L**: the Bluetooth function is enable.

With **-L**: the Bluetooth function is not enable.

* A sign for color variation (**DR, LA, WH** or **CH**) is not displayed.

2. Press .

The model setting is written and execution advances to the next test item.

03. Destination

This makes the setting for the product's destination for the unit being tested.

```



+-----+
| 03.Destination |
| ---            |
+-----+
  
```

1. Press **Strings**.



2. Press .

The destination is written and execution advances to the next test item.

04. BLE Test

Skip this test item in servicing. ( + )

05. A2DP Test


Skip this test item in servicing. ( + )

06. Factory Reset

This returns the settings to their factory defaults.

```

+-----+
| 06.Factory Reset |
| Press [Rec] button |
+-----+
  
```

Pressing  executes the factory reset.

When the operation has finished, execution automatically advances to the next test item.




07. Encoder Test

This checks the operation when turning the encoders.

```

+-----+
| 07.Encoder Test |
| Volume:   20  <- |
| Select:   20  <- |
| Tempo :   20  <- |
+-----+

```

1. Turn the  knob counterclockwise.
The value on the screen decreases from **20** to **0** in sequence.
2. Turn the  knob clockwise.
The value on the screen increases from **0** to **20** in sequence.
3. Test the  and **TEMPO** knobs in the same way.
When testing for all encoders has finished, execution automatically advances to the next test item.

08. Encoder SW Test



This checks the operation when pressing the encoders.

```

+-----+
| 08.Encoder SW Test |
| Volume |
+-----+

```

When the unit enters this test item, all LEDs lights up.

Press the encoder displayed on the screen. **Volume** () , **Select** () and **Tempo** appear in sequence.

* Pressing the encoder produces a piano sound.

When testing for all encoders has finished, execution automatically advances to the next test item.

09. SW/LED Test

This checks the operation of the switches and LEDs.

```

+-----+
| 09.SW/LED Test |
| white(left)   8/ 8 |
+-----+

```

Working in sequence, press each button whose LED flashes.

The number of remaining switches is displayed on the screen.

* Pressing the buttons produces a piano sound.



Flashing buttons and their color are as follow.

Flashing in white (left side of the panel):

PianoDesigner, Transpose, Split/Dual, Piano, E.Piano,
Strings, Other, Registration

Flashing in white (right side of the panel):

, , , , Part, , , , 

Flashing in red: , 

When testing for all switches has finished, execution automatically advances to the next test item.




10. LED Brightness Test

This checks the variation of the brightness of the LEDs.

```

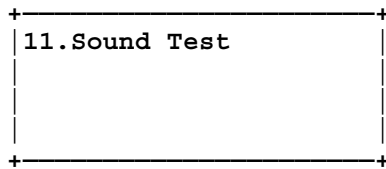
+-----+
| 10.LED Brightness Test |
| white All On |
+-----+

```

1. Press **Piano**.
Verify that **E.Piano** flashes white and all other buttons light up white.
2. Press **E.Piano**.
Verify that  and  light up red.
3. Press  to advance to the next test item.

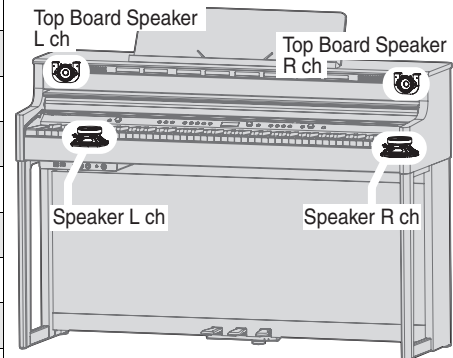
11. Sound Test

This checks the speaker output.



1. Connect the amp-equipped monitor speakers to the **Output L/Mono** and **R** jacks.
2. Each time **Piano** is pressed, verify that the screen display is switched and the corresponding sound is produced from the corresponding output devices.
 * For the corresponding output devices, refer to the following figure.

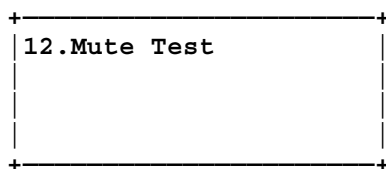
Screen Display	Tone	Output Device
Direct	Piano sound	The piano sound with no effect is produced from all speakers and Phones jacks.
Reverb	Piano sound	The piano sound with reverb effect is produced with no audio artifacts or the like from all speakers and Phones jacks.
DAC A L	Sine wave	Speaker L ch L channel of Phones jack (1/4-inch)
DAC A R	Sine wave	Speaker R ch R channel of Phones jack (1/4-inch)
DAC B L	Sine wave	Top Board Speaker L ch L channel of Phones jack (miniature)
DAC B R	Sine wave	Top Board Speaker R ch R channel of Phones jack (miniature)
DAC D L	Rectangular wave	Output L/Mono jack * Connect a dummy plug to the Output R jack.
DAC D R	Rectangular wave	Output R jack



3. Detach the amp-equipped monitor speakers.
4. Press **▶/■** to advance to the next test item.

12. Mute Test

This checks the operation of muting.



1. Play the key and verify that sound is produced.
2. Press the flashing buttons in sequence shown in the table below and verify that the screen display is switched and the sine wave is not produced. When releasing the button, flashing changes to lighting.

Button Name	Screen Display	Output Device		
		Speakers	Output L/R jacks	Phones jacks (1/4-inch, miniature)
Piano	Core0 Mute	-	Sine wave is output with a small amount of sound even when the mute is in effect.	Sine wave is output with a small amount of sound even when the mute is in effect.
E.Piano	Core1 Mute	-	Sine wave	Sine wave
Registration	Amp Mute	-	Sine wave	Sine wave

3. Press **▶/■** to advance to the next test item.

13. Pedal AD Test

This checks the operation of each pedal.

```

+-----+
| 13.Pedal AD Test |
| SOFT: _ SOST: _ DAMP: _ |
|                   |
|                   |
+-----+

```

For each pedal, depress it slowly, then when it is fully depressed, slowly release it.

Depending on how much the pedal is depressed, the value changes from **0** (not depressed) to **127** (fully depressed) and **F** appears on the screen.

When testing for all pedals has finished, execution automatically advances to the next test item.

14. USB Test

This checks the operation of the USB connectors (Memory/Computer).

```

+-----+
| 14.USB Test |
|             |
| USB Memory: _ |
| USB MIDI : _ |
|             |
+-----+

```

1. Connect the USB memory device to the **USB Memory** connector.
 - o appears on the screen.

* o does not appear if the USB memory device does not support high speed.
2. Using the USB cable, connect the **USB Computer** connector to the **USB Memory** connector.
 - o appears on the screen and execution automatically advances to the next test item.

When the execution advances to the next test item, detach the USB memory device and the USB cable.

15. Jack Sense Test

This checks the switch operation of each jack.

```

+-----+
| 15.Jack Sense Test |
|                   |
| Phones: _ |
| Input: _ |
|                   |
+-----+

```

1. Connect the headphones plug to the **Phones** jack (stereo 1/4-inch phone).
 - o appears on the screen.
2. Disconnect the plug.
 - appears on the screen.
3. In the same way, check the tests for the **Phones** jack (stereo miniature phone) and the **Input** jack (stereo miniature phone).
4. Press ►/■ to advance to the next test item.

16. Lid SW Test

This checks the operation that power is turned on or off by the lid.

```

+-----+
| 16.Lid SW Test |
|                 |
| Close Lid. |
|                 |
+-----+

```

1. Close the lid.
 - * This test item is set so that the power is not turned off when the lid is closed. In other test items, the power is turned off when the lid is closed.
2. Open the lid.
 - The display on the screen changes from **Close Lid.** to **OK** and ►/■ flashes.
3. Press ►/■ to advance to the next test item.

17. Display Test

This checks the display on the screen.

```

+-----+
| 17.Display Test |
|                 |
|                 |
|                 |
+-----+

```

1. Press **Piano**, then the entire screen becomes black. Verify that all dots are displayed in black.
2. Press **E.Piano**, then the entire screen becomes white. Verify that all dots are displayed in white.
3. Press **Other**, then the contrast is minimized. At this time, see the screen from right above and verify that the vertical stripes appear at the lower half of the screen.
4. Press **Registration**, then the contrast is maximized. At this time, see the screen from right above and verify that the vertical stripes appear at the lower half of the screen.
5. Press ◀, then only the outer frame of the screen lights up. At this time, verify that the outer frame of the screen does not hide under the display cover.
6. Press ►/■ to advance to the next test item.

18. Device Test

Entering this test item automatically starts testing of each device.

```

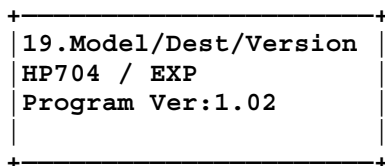
+-----+
| 18.Device Test (1/3) |
|                       |
| Core0 Prog |
| Checking... |
+-----+

```

The tests for Wave ROM and ERAM start when the unit enters into **14. USB Test** (p. 53) and they are executed in the background. When **OKs** appear in all items, press ►/■ to advance to the next test item.

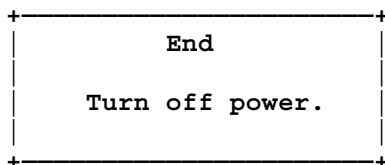
19. Model/Dest/Version

This checks the model name, destination and version.



1. Verify the model name, destination (**DOM**, **US** or **EXP**) and version.
2. Press ►/■.

The screen shown below appears.



3. Press and hold ⏻ to turn off the power.

This completes the testing in the Test Mode.

The following tests are performed in the normal mode. Press ⏻ to turn on the power.

01. IN/OUT Test

This checks the operation of the **Input**, **Output L/Mono** and **R** jacks.

1. Connect the amp-equipped monitor speakers to the **Output L/Mono** and **R** jacks.
2. Input the audio signal to the **Input** jack (stereo).
3. Verify that sound is produced from the monitor speakers.
4. Disconnect the plug from the **Output R** jack.
5. Verify that sound of both left and right channels is produced from the monitor speaker.
6. Detach the monitor speaker.

02. Bluetooth Test

This item tests the Bluetooth function.

* For explanation in this section, we will choose iPhone as an example of the mobile device with Bluetooth function.

Verifying the Bluetooth Audio Function

1. Place an iPhone near the HP704.
2. On the iPhone, enter **Settings** and set **Bluetooth** off.
3. Press ⚙️ and turn ⏴ to select **Bluetooth** on the HP704, then press ⏴.
4. On the iPhone, enter **Settings** and set **Bluetooth** on.
5. Press ⏴ to begin pairing.
Pairing... is displayed and HP704 waits for a response from the iPhone.
6. Tap **HP704 Audio** displayed on the Bluetooth screen of the iPhone.
When pairing succeeds, **Connected** is displayed on the right of **HP704 Audio** and **Completed** is displayed on the HP704's screen and **AUDIO** is displayed next to the Bluetooth mark.
7. Play back any music with **Music** or the like on the iPhone.
8. Verify that sound is produced from the speakers on the HP704.

Verifying the Bluetooth MIDI Function

1. Place an iPhone near the HP704.
2. On the iPhone, enter **Settings** and set **Bluetooth** on.
* *Pairing operation should be carried out not on the Bluetooth screen but in GarageBand. Advance to the next step as it is.*
3. Start GarageBand on the iPhone.
4. Tap ⚙️ (or 🎛️) at the upper right of the GarageBand screen, then tap **Song Settings**.
* *Depending on the difference of version of iOS or GarageBand, some functions or location of command might be different.*
5. Tap **Advanced** and **Bluetooth MIDI Devices**.
6. Tap **HP704 MIDI**, and when you are requested to pair, tap **Pair**.
When pairing succeeds, **Connected** is displayed on the right of **HP704 MIDI** on the HP704's screen and **MIDI** is displayed next to the Bluetooth mark.

Canceling the Registration of the Bluetooth Device and Factory Reset

1. On the iPhone, enter **Settings** and tap **Bluetooth**, then tap ⓘ at the right of **HP704 Audio** to cancel the registration of this device.
2. Cancel the registration of **HP704 MIDI** in the same way as step 1.
3. Follow the procedure in **Performing a Factory Reset** (p. 49) to execute a factory reset.
* *Executing the factory reset can erase the information of the Bluetooth device used for testing. However, the information of the Bluetooth device paired by the customer is also erased. When returning the product to the customer, request him/her to pair by himself/herself again.*