

Portable Grand
DGX-520/YPG-525
SERVICE MANUAL



DGX-520



YPG-525

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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.

■ WARNING

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

■ SAVING DATA

Saving and backing up your data



Be sure to perform it

The panel settings and some other types of data are not retained in memory when you turn off the power to the instrument. Save data you want to keep to the Registration Memory.

Saved data may be lost due to malfunction or incorrect operation.

Save important data to a USB storage device/or other external device such as a computer.

Backing up the USB storage device/external media



Be sure to perform it

To protect against data loss through media damage, we recommend that you save your important data onto two USB storage devices/external media.

■ SPECIFICATIONS

Keyboards

- 88-key box type (A-1–C7), with Touch Response.

Display

- 320 x 240 dots LCD display (backlit)

Setup

- STANDBY/ON
- MASTER VOLUME: MIN–MAX
- LCD CONTRAST

Panel Controls

- SONG, VOICE, STYLE, EASY SONG ARRANGER, P.A.T. ON/OFF, LESSON L, LESSON R, LESSON START, METRONOME ON/OFF, PORTABLE GRAND, DEMO, FUNCTION, MUSIC DATABASE, HARMONY ON/OFF, DUAL ON/OFF, SPLIT ON/OFF, TEMPO/TAP, [0]–[9], [+], [-], CATEGORY, Dial, REPEAT & LEARN (ACMP ON/OFF), A-B REPEAT (INTRO/ENDING/rit.), PAUSE (SYNC START), START/STOP, REW (MAIN/AUTO FILL), FF (SYNC STOP), REGIST MEMORY ([MEMORY/BANK], [1], [2]), SONG MEMORY (REC, [1]–[5], [A]), File Control [MENU], File Control [EXECUTE], [EXIT], [LYRICS], [SCORE], [CHORD FINGERING]

Realtime Control

- Pitch Bend Wheel

Voice

- 127 panel voices + 12 drum/SFX kits + 361 XGlite voices
- Polyphony: 32
- DUAL
- SPLIT

Style

- 150 Preset Styles + 1 User Style File
- Style Control: ACMP ON/OFF, SYNC STOP, SYNC START, START/STOP, INTRO/ENDING/rit., MAIN/AUTO FILL
- Fingering: Multi Finger, Full Keyboard
- Style Volume

Music Database

- 267

Education Feature

- Dictionary
- Lesson 1–3, Repeat & Learn

Registration Memory

- 8 banks x 2 types

Function

- VOLUME: Style Volume, Song Volume
- OVERALL: Tuning, Transpose, Split Point, Touch Sensitivity, Pitch Bend Range, Chord Fingering
- MAIN VOICE: Volume, Octave, Pan, Reverb Level, Chorus Level
- DUAL VOICE: Volume, Octave, Pan, Reverb Level, Chorus Level
- SPLIT VOICE: Volume, Octave, Pan, Reverb Level, Chorus Level
- EFFECT: Reverb Type, Chorus Type, Master EQ Type, Sustain
- HARMONY: Harmony Type, Harmony Volume
- Performance assistant technology: Performance assistant technology Type
- PC: PC Mode
- MIDI: Local On/Off, External Clock, Initial Send, Keyboard Out, Style Out, Song Out
- METRONOME: Time Signature Numerator, Time Signature Denominator, Metronome Volume
- SCORE: Quantize
- LESSON: Lesson Track (R), Lesson Track (L), Grade
- UTILITY: Demo Cancel, Language

Effects

- Reverb: 9 types
- Chorus: 4 types
- Harmony: 26 types

Song

- 30 Preset Songs + 5 User Songs + Accessory CD-ROM Songs (70)
- Song Clear, Track Clear
- Song Volume
- Song Control: REPEAT & LEARN, A-B REPEAT, PAUSE, REW, FF, START/STOP

Performance assistant technology

- Chord, Chord/Free, Melody, Chord/Melody

Recording

- Song
 - User Song: 5 Songs
 - Recording Tracks: 1, 2, 3, 4, 5, STYLE

MIDI

- Local On/Off
- Initial Send
- External Clock
- Keyboard Out
- Style Out
- Song Out

Auxiliary jacks

- PHONES/OUTPUT, DC IN 12V, USB TO HOST, USB TO DEVICE, SUSTAIN

Amplifier

- 6W + 6W

Speakers

- 12cm x 2 + 3cm x 2

Power Consumption

- 22W

Power Supply

- Adaptor: Yamaha PA-5D AC power adaptor

Dimensions (W x D x H)

- 1,340 x 422 x 145 mm (52-3/4" x 16-5/8" x 5-3/4")
- with keyboard stand: 1,354 x 485 x 775 mm (53-1/3" x 19-1/8" 30-1/2")

Weight

- 11.0kg (24 lbs. 4 oz.)
- with keyboard stand: 17.0kg (37 lbs. 8 oz.)

Supplied Accessories

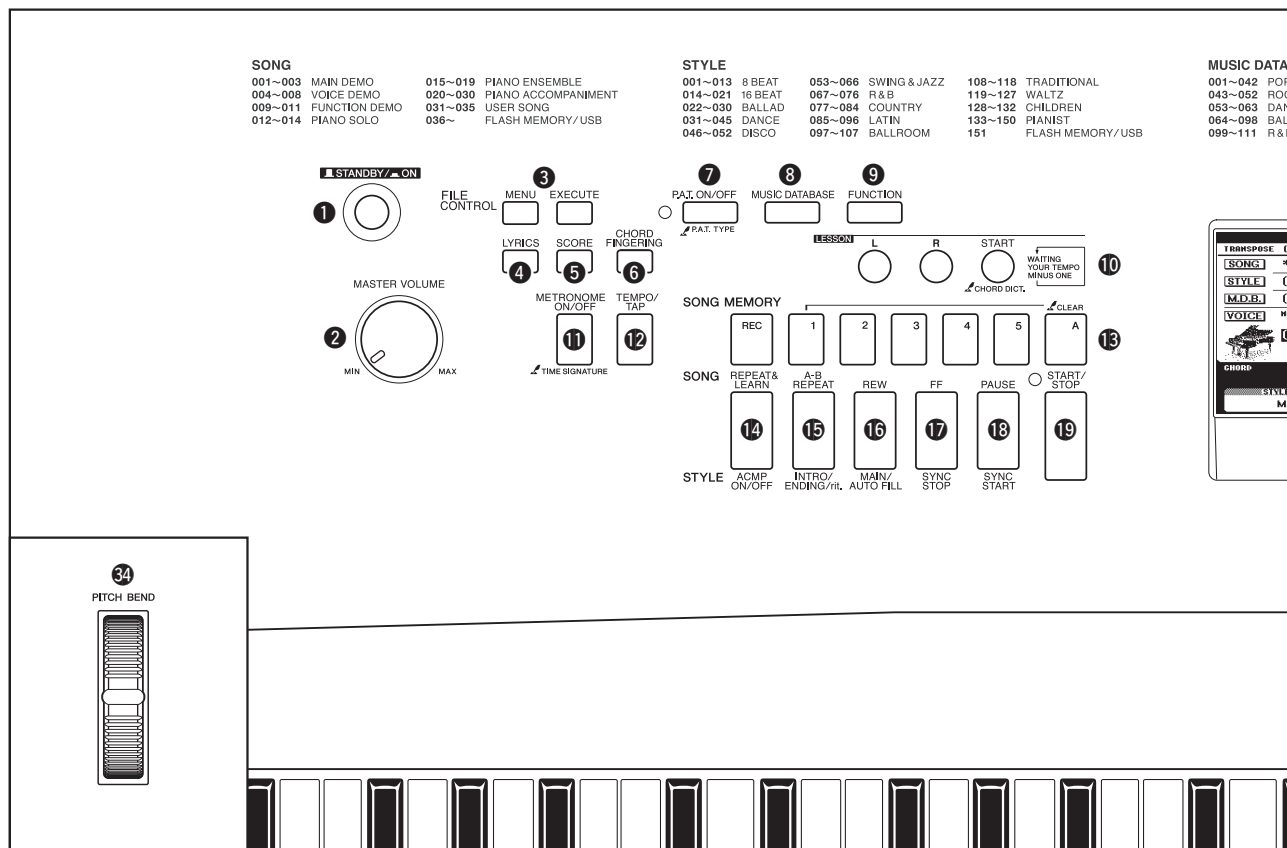
- Music Rest
- Accessory CD-ROM
- Keyboard Stand
- Owner's Manual
- Footswitch FC5
- AC Power adaptor (May not be included depending on your particular area.)

Optional Accessories

- Headphones: HPE-150

■ PANEL LAYOUT

• Front Panel



• Front Panel

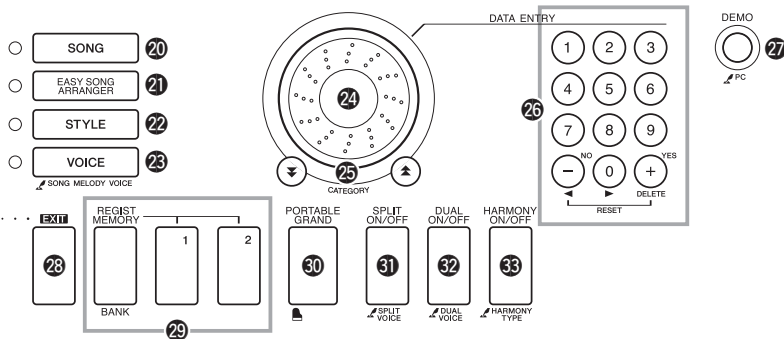
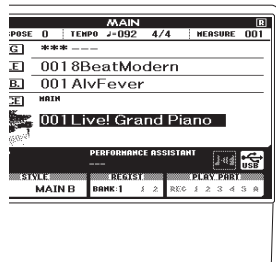
- ① [STANDBY/ON] switch
- ② [MASTER VOLUME] control
- ③ FILE CONTROL [MENU], [EXECUTE] button
- ④ [LYRICS] button
- ⑤ [SCORE] button
- ⑥ [CHORD FINGERING] button
- ⑦ [P.A.T. ON/OFF] button
- ⑧ [MUSIC DATABASE] button
- ⑨ [FUNCTION] button
- ⑩ LESSON [L],[R], [START] buttons
- ⑪ [METRONOME ON/OFF] button
- ⑫ [TEMPO/TAP] button
- ⑬ SONG MEMORY [REC], [1]-[5], [A] buttons
- ⑭ [REPEAT & LEARN]/[ACMP ON/OFF] button
- ⑮ [A-B REPEAT]/[INTRO/ENDING/rit.] button
- ⑯ [REW]/[MAIN/AUTO FULL] button
- ⑰ [FF]/[SYNC STOP] button
- ⑱ [PAUSE]/[SYNC START] button
- ⑲ [START/STOP] button
- ⑳ [SONG] button
- ㉑ [EASY SONG] ARRANGER button
- ㉒ [STYLE] button
- ㉓ [VOICE] button

DATABASE

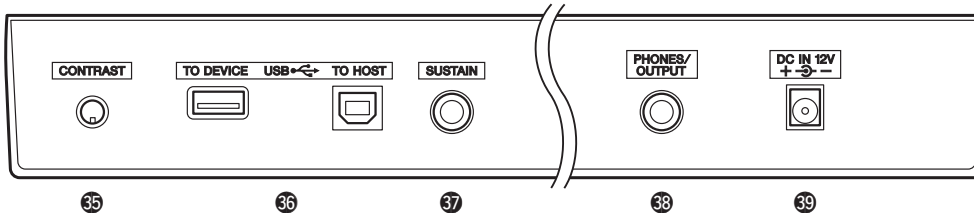
2 POP	112~136 SWING & JAZZ	193~204 DISCO & PARTY
2 ROCK	137~168 EASY LISTENING	205~215 BALLROOM
3 DANCE	169~181 LATIN	216~246 TRADITIONAL
8 BALLAD	182~192 COUNTRY	247~267 PIANIST
1 R & B		

VOICE

001~008 PIANO	047~054 BASS	094~099 BRASS	128~139 DRUM KITS
009~017 E.PIANO	055~067 STRINGS	100~106 FLUTE	140~500 XGlite
018~031 ORGAN	068~071 CHOIR	107~113 SYNTH LEAD	000 OTS
032~036 ACCORDION	072~084 SAXOPHONE	114~119 SYNTH PAD	
037~046 GUITAR	085~093 TRUMPET	120~127 PERCUSSION	



Rear Panel

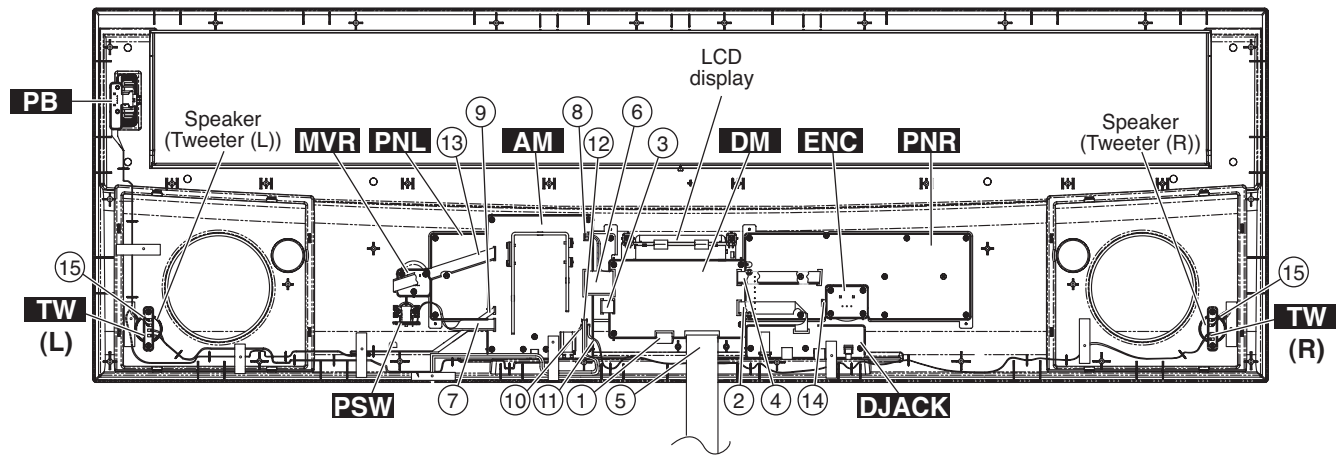


• Rear Panel

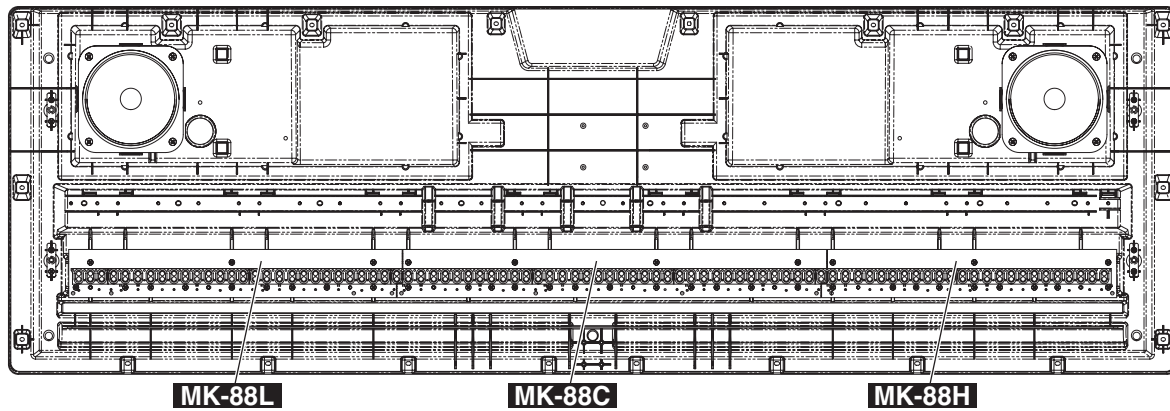
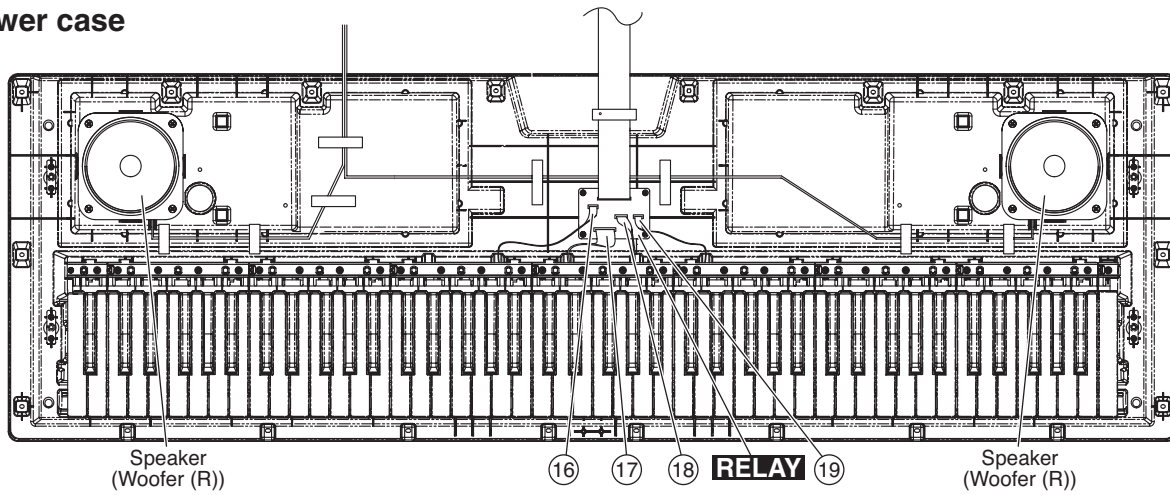
- 24 Dial
- 25 CATEGORY [▲] and [▼] buttons
- 26 Number buttons [0]-[9],[+] and [-] buttons
- 27 [DEMO] button
- 28 [EXIT] button
- 29 REGIST MEMORY [MEMORY/BANK], [1], [2] buttons
- 30 [PORTABLE GRAND] button
- 31 [SPLIT ON/OFF] button
- 32 [DUAL ON/OFF] button
- 33 [HARMONY ON/OFF] button
- 34 [PITCH BEND] wheel
- 35 CONTRAST knob
- 36 USB TO DEVICE, TO HOST terminals
- 37 SUSTAIN jack
- 38 PHONES/OUTPUT jack
- 39 DC IN 12V jack

CIRCUIT BOARDS LAYOUT & WIRING

• Upper case



• Lower case

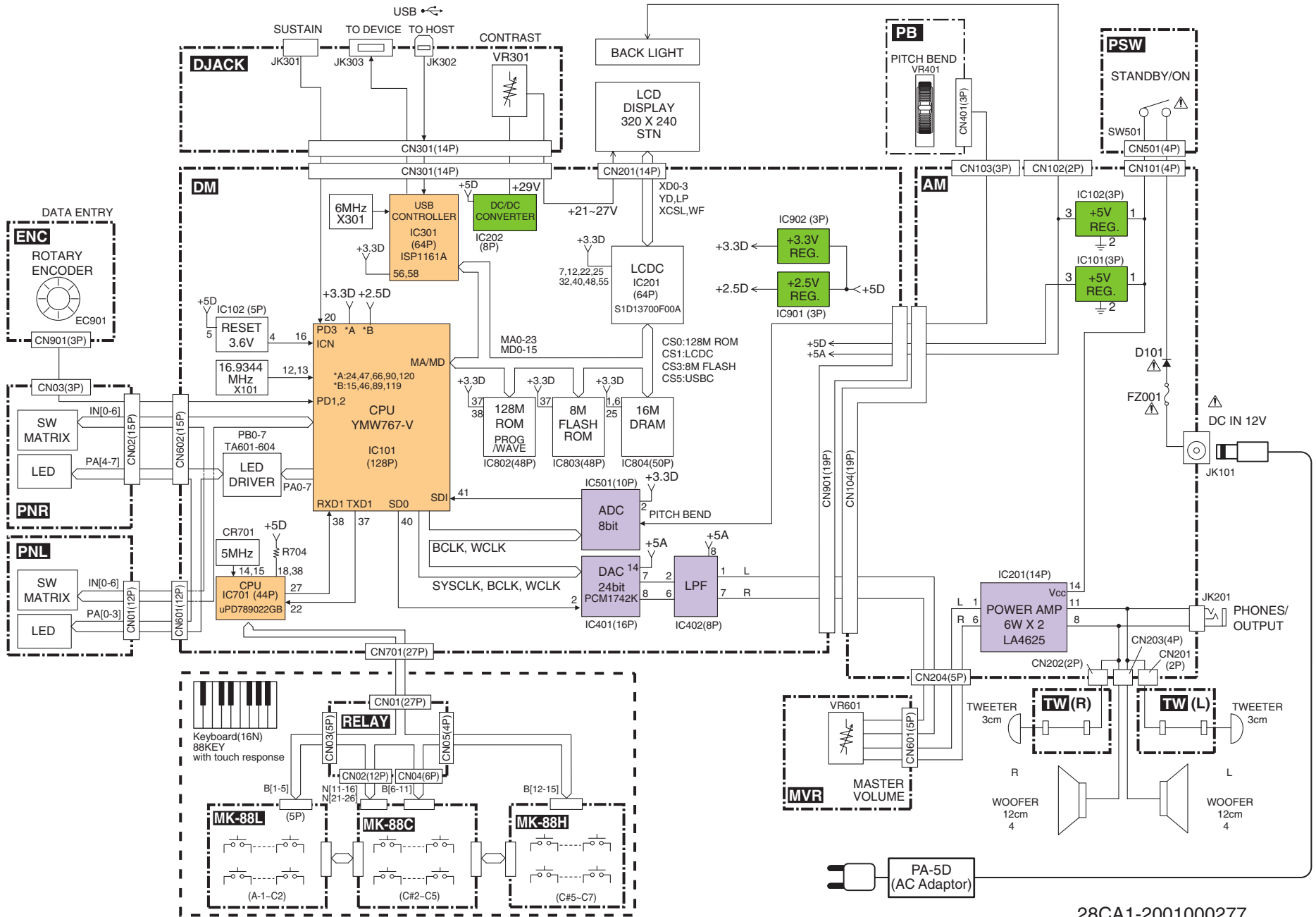


No.	Location	Part No.	Connector Assembly		Destination					Remarks
①	--	--	Flexible flat cable	DM-CN201	*1	*4	LCD	*3	*4	14P
②	240	WG317700	Flexible flat cable	DM-CN301	*1	*4	DJACK-CN301	*1	*4	14P
③	230	WG317600	Flexible flat cable	DM-CN601	*1	*4	PNL-CN01	*1	*4	12P
④	250	WG317800	Flexible flat cable	DM-CN602	*1	*4	PNR-CN02	*1	*4	15P
⑤	270	WG318200	Flexible flat cable	DM-CN701	*1	*4	RELAY-CN01	*1	*4	27P
⑥	260	WG317900	Flexible flat cable	DM-CN901	*1	*4	AM-CN104	*1	*4	19P
⑦	WH501	(WG45930)	PSW	AM-CN101	*1	*5	PSW-CN501	*2	*5	4P
⑧	290	WB092100	BL	AM-CN102	*1	*5	LCD	*3	*6	2P
⑨	WH401	(WG46060)	PB	AM-CN103	*1	*5	PB-CN401	*2	*5	3P
⑩	WH201	(WG46040)	TWL	AM-CN201	*2	*5	TW(L)	*3	*6	2P
⑪	WH202	(WG46050)	TWR	AM-CN202	*2	*5	TW(R)	*3	*6	2P
⑫	100	WG458700	SP1	AM-CN203	*1	*9	Speaker Lch Speaker Rch	*3 *3	*9 *10	4P
⑬	WH601	(WG46070)	MVR	AM-CN204	*1	*5	MVR-CN601	*2	*5	5P
⑭	WH901	(WB09270)	ENC	PNR-CN03	*1	*5	ENC-CN901	*2	*5	3P
⑮	--	--	--	Speaker	*11	--	TW	*3	*10	2P X0159A00
⑯	M9	(WC53430)	88L	RELAY-CN03	*1	*5	88L	*1	*5	5P
⑰	M8	(WC53470)	88C-N	RELAY-CN02	*1	*5	88C	*1	*5	12P
⑱	M7	(WC53450)	88C-B	RELAY-CN04	*1	*5	88C	*1	*5	6P
⑲	M6	(WC53410)	88H	RELAY-CN05	*1	*5	88H	*1	*5	4P

- * The parts with "()" in "Part No." are not available as spare parts.
- * 1 : Installation
- * 2 : Dip soldering
- * 3 : Manual soldering
- * 4 : The conductor of a cable and the point of contact of a connector are untited.
- * 5 : Edge mark is adjusted to Pin 1 (△) side.
- * 6 : Edge mark is connected to + side.
- * 7 : Edge mark is connected to + terminal.
- * 8 : White wire is adjusted to Pin 1 (△) side.
- * 9 : White wire is connected to + terminal.
- * 10 : Red wire is connected to + terminal.
- * 11 : Connected

Caution: Be sure to attach the removed filament tape just as it was before removal.

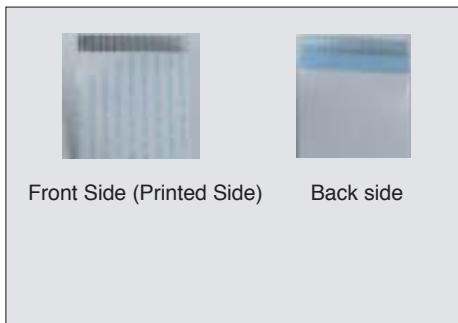
■ BLOCK DIAGRAM



28CA1-2001000277

DISASSEMBLY PROCEDURE

- Caution:**
- 1) Flat cable's contacts are visible from the back.
Pay attention not to insert and install the cable to the connector inversely. (Fig.1)
 - 2) Be sure to attach the removed filament tape just as it was before removal.

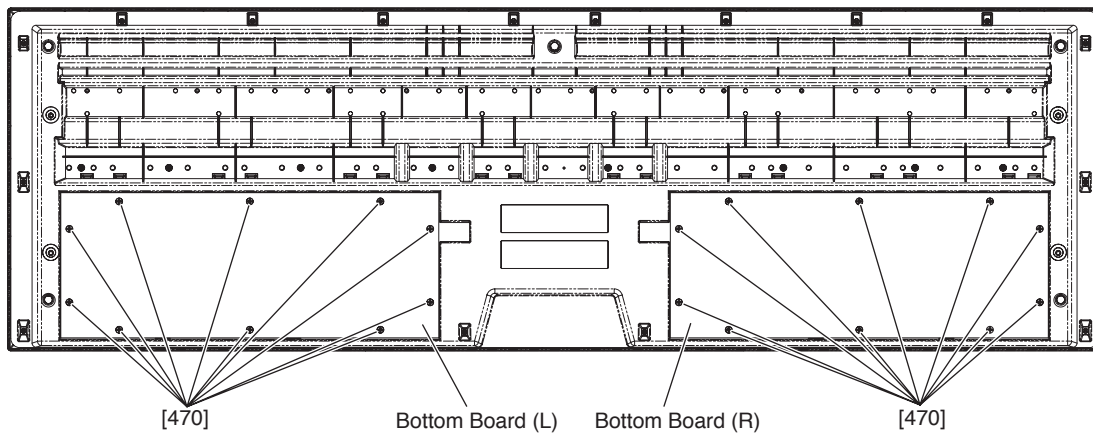


(Fig.1)

1. Lower Case Assembly (Time required: About 9 minutes)

- 1-1 Remove the twenty (20) screws marked [470].
The bottom boards L and R can then be removed. (Fig.2)
- 1-2 Remove the twenty four (24) screws marked [460] and the eight (8) screws marked [450]. The lower case assembly can then be removed. (Fig. 3)

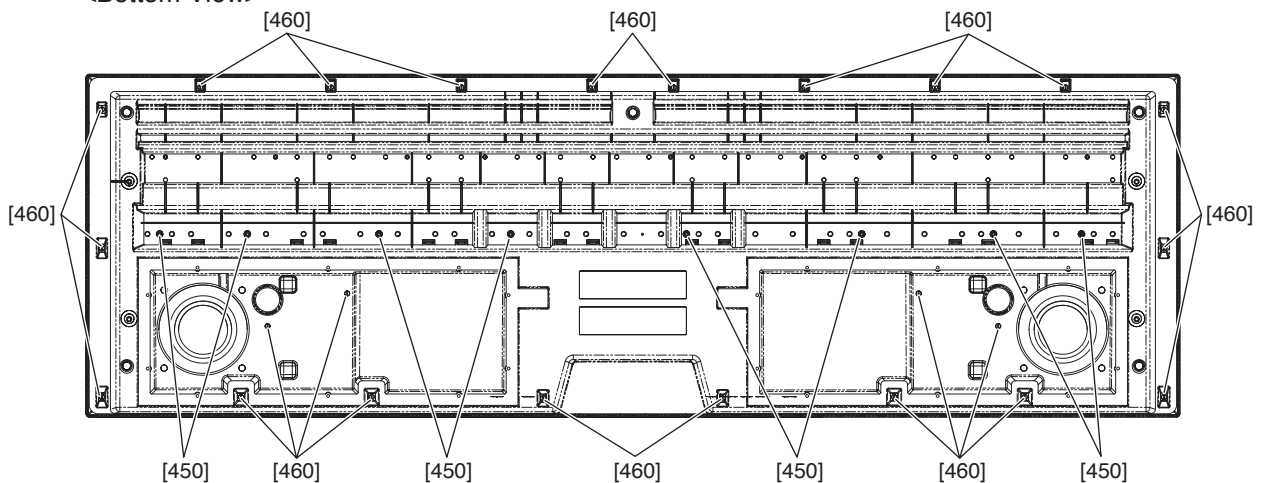
<Bottom View>



(Fig.2)

[470]: Bind Head Tapping Screw-B 4.0X16 MFZN2W3 (WF154100)

<Bottom View>

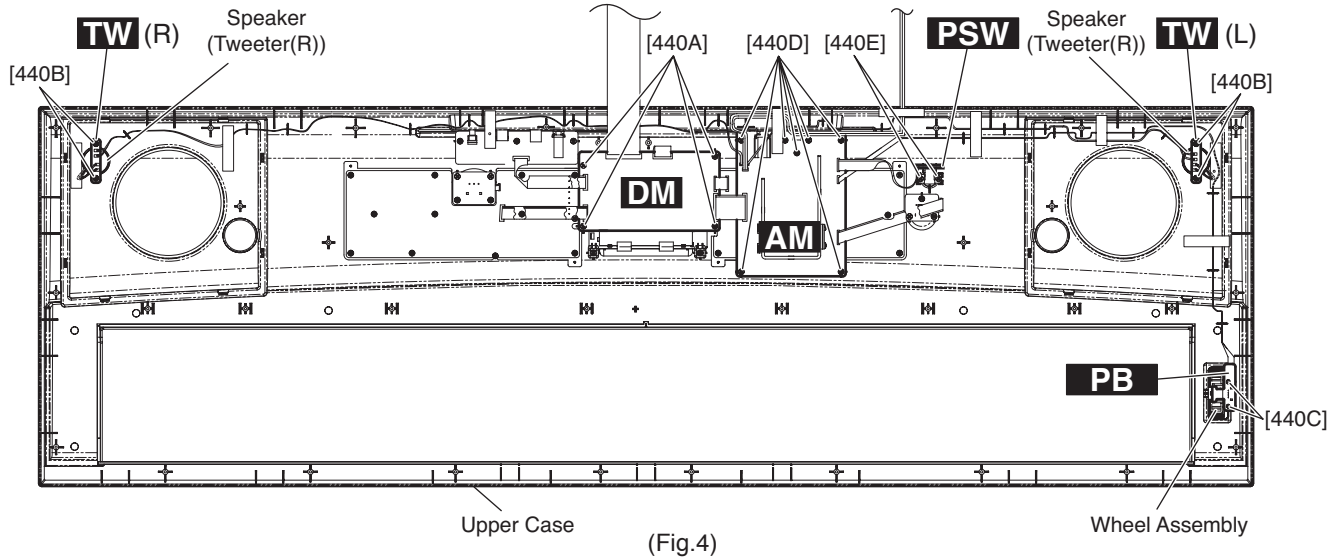


(Fig.3)

[450]: Bind Head Tapping Screw-B 3.0X30 MFZN2W3 (WF491000)
[460]: Bind Head Tapping Screw-B 3.0X12 MFZN2W3 (WE987400)

**2. DM Circuit Board
(Time required: About 10 minutes)**

- 2-1 Remove the lower case assembly. (See procedure 1.)
- 2-2 Remove the four (4) screws marked [440A]. The DM circuit board can then be removed. (Fig.4)



[440]: Bind Head Tapping Screw-B 3.0X8 MFZN2W3 (WE774300)

**3. TW Circuit Board, Speaker (Tweeter)
(Time required: About 9 minutes)**

- 3-1 Remove the lower case assembly. (See procedure 1.)
- 3-2 Remove the two (2) screws marked [440B]. The TW circuit board and speaker (tweeter) can then be removed. (Fig.4)
- * *The left and right speakers (tweeters) can be removed in the same way.*

**4. PB Circuit Board, Wheel Assembly
(Time required: About 9 minutes)**

- 4-1 Remove the lower case assembly. (See procedure 1.)
- 4-2 Remove the two (2) screws marked [440C]. The PB circuit board and the wheel assembly can then be removed. (Fig.4)
- * *Make sure to mount the wheel assembly on the volume shaft of the PB circuit board by firmly inserting it into the shaft.*

**5. AM Circuit Board
(Time required: About 10 minutes)**

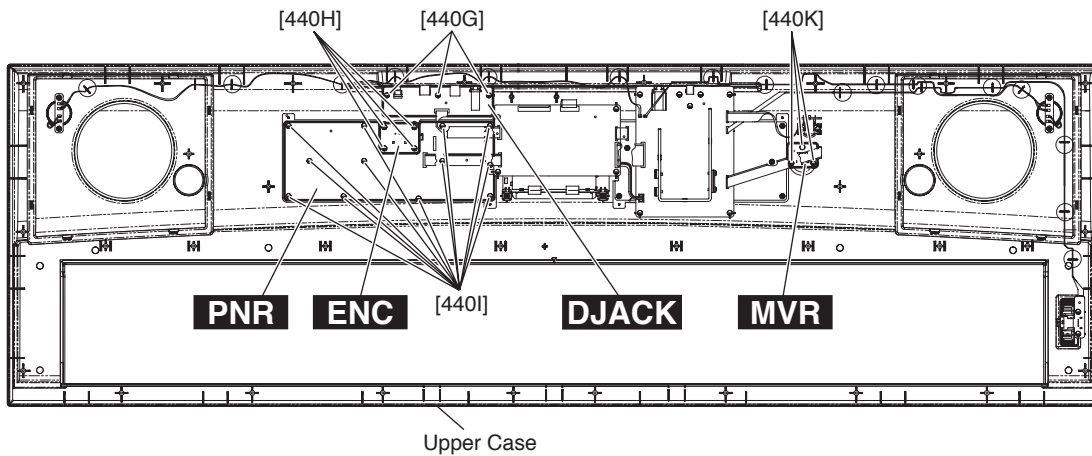
- 5-1 Remove the lower case assembly. (See procedure 1.)
- 5-2 Remove the seven (7) screws marked [440D]. The AM circuit board can then be removed. (Fig.4)

**6. PSW Circuit Board
(Time required: About 9 minutes)**

- 6-1 Remove the lower case assembly. (See procedure 1.)
- 6-2 Remove the two (2) screws marked [440E]. The PSW circuit board can then be removed. (Fig.4)

**7. DJACK Circuit Board
(Time required: About 10 minutes)**

- 7-1 Remove the lower case assembly. (See procedure 1.)
- 7-2 Remove the three (3) screws marked [440G]. The DJACK circuit board can then be removed. (Fig.5)

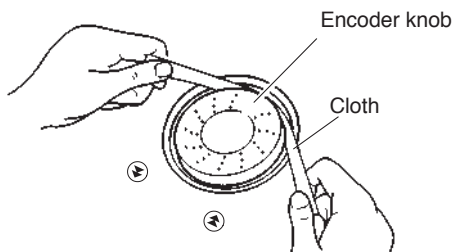


(Fig.5)

[440]: Bind Head Tapping Screw-B 3.0X8 MFZN2W3 (WE774300)

**8. ENC Circuit Board
(Time required: About 10 minutes)**

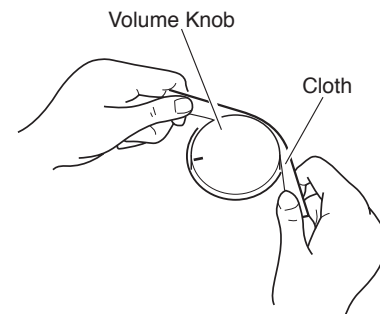
- 8-1 Remove the lower case assembly. (See procedure 1.)
- 8-2 Remove the encoder knob from the control panel. (Fig.6)
- 8-3 Remove the four (4) screws marked [440H]. The ENC circuit board can then be removed. (Fig.5)



(Fig.6)

**10. MVR Circuit Board
(Time required: About 10 minutes)**

- 10-1 Remove the lower case assembly. (See procedure 1.)
- 10-2 Remove the volume knob from the control panel. (Fig.7)
- 10-3 Remove the three (3) screws marked [440K]. The MVR circuit board can then be removed. (Fig.5)



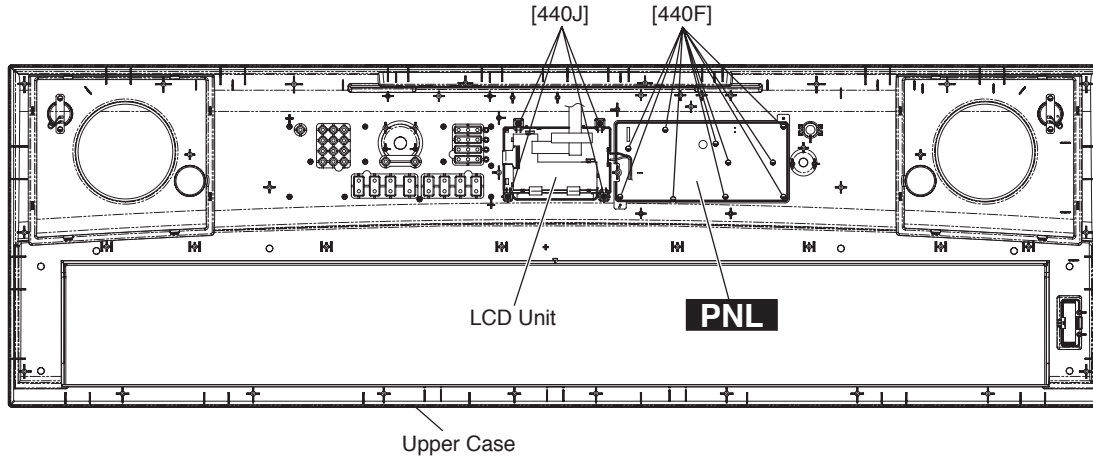
(Fig.7)

**9. PNR Circuit Board
(Time required: About 11 minutes)**

- 9-1 Remove the lower case assembly. (See procedure 1.)
- 9-2 Remove the twelve (12) screws marked [440I]. The PNR circuit board can then be removed. (Fig.5)

11. PNL Circuit Board
(Time required: About 12 minutes)

- 11-1 Remove the lower case assembly. (See procedure 1.)
- 11-2 Remove the AM circuit board. (See procedure 5.)
- 11-3 Remove the ten (10) screws marked [440F]. The PNL circuit board can then be removed. (Fig.8)



(Fig.8)

[440]: Bind Head Tapping Screw-B 3.0X8 MFZN2W3 (WE774300)

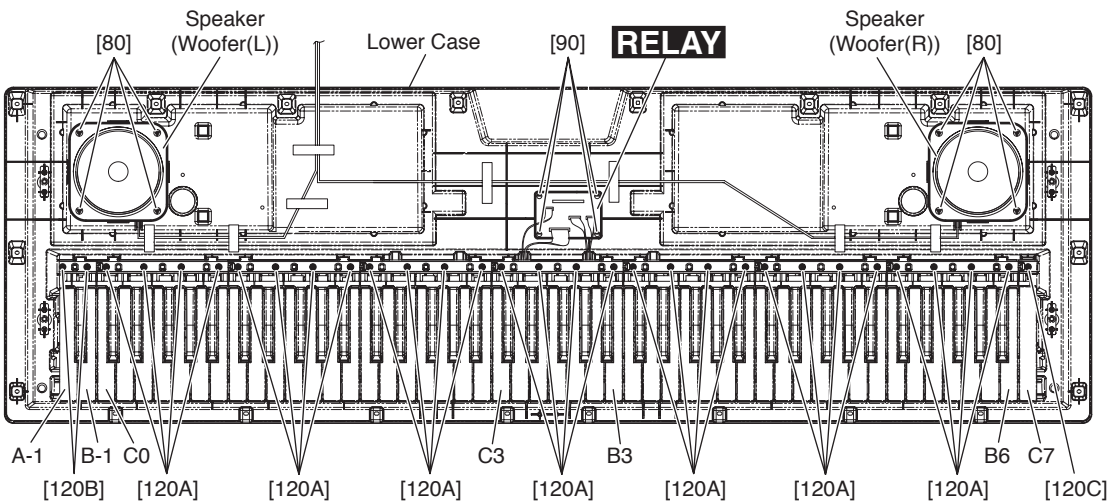
12. LCD Unit
(Time required: About 11 minutes)

- 12-1 Remove the lower case assembly. (See procedure 1.)
- 12-2 Remove the DM circuit board. (See procedure 2.)
- 12-2 Remove the four (4) screws marked [440J]. The LCD unit can then be removed. (Fig.8)

13. Speaker (Woofer)
(Time required: About 10 minutes)

- 13-1 Remove the lower case assembly. (See procedure 1.)
- 13-2 Remove the four (4) screws marked [80]. The speaker (woofer) can then be removed. (Fig.9)

* The left and right speakers (woofers) can be removed in the same way.



(Fig.9)

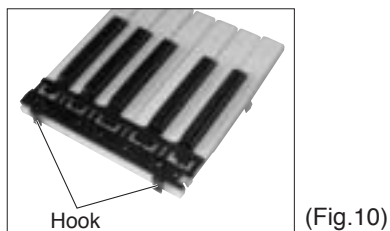
[80]: Bind Head Tapping Screw-B 4.0X12 MFZN2W3 (WE981200)
 [90]: Bind Head Tapping Screw-B 3.0X8 MFZN2W3 (WE774300)
 [120]: Bind Head Tapping Screw-P 3.0X20 MFZN2W3 (WF492000)

**14. RELAY Circuit Board
(Time required: About 10 minutes)**

- 14-1 Remove the lower case assembly. (See procedure 1.)
- 14-2 Remove the four (4) screws marked [90]. The RELAY circuit board can then be removed. (Fig.9)

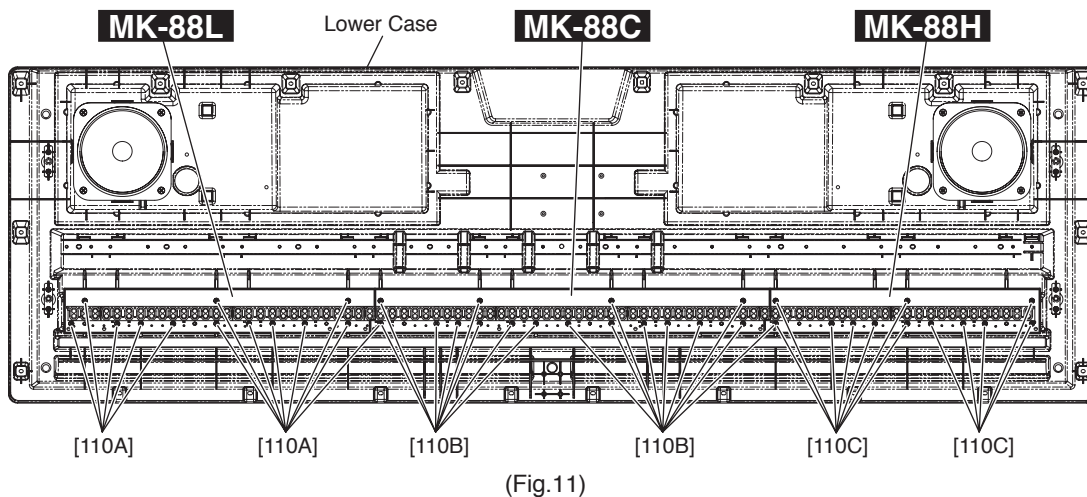
15. White and Black Keys

- 15-1 Remove the lower case assembly. (See procedure 1.)
- 15-2 For the C0-B6 white/black keys, remove the four (4) screws marked [120A] fixing the keys for each octave (C through B), then remove these keys for one (1) octave. (Fig.9)
At that time, push hooks on the black keys to lift the rear part, then pull and slide the keys toward you to remove it. (Fig.10)
- 15-3 Remove the two (2) screws marked [120B] for the A-1 to B-1 white/black keys and the one (1) screw marked [120C] for the C7 key, then remove these keys. (Fig.9)



**16. MK-88L, MK-88C, MK-88H Circuit Boards
(Time required: About 16 minutes)**

- 16-1 Remove the lower case assembly. (See procedure 1.)
- 16-2 Remove the A-1 to B2 white/black keys. (See procedure 15.)
Remove the thirteen (13) screws marked [110A]. The MK-88L circuit board and key guide can then be removed. (Fig.11, Fig.12)
- 16-3 Remove the C2-B5 white/black keys. (See procedure 15.)
Remove the seventeen (17) screws marked [110B]. The MK-88C circuit board and key guide can then be removed. (Fig.11, Fig.12)
- 16-4 Remove the C5-C7 white/black keys. (See procedure 15.)
Remove the twelve (12) screws marked [110C]. The MK-88H circuit board and key guide can then be removed. (Fig.11, Fig.12)



[110]: Bind Head Tapping Screw-B 3.0X10 MFZN2W3 (WE774200)



17. Rubber Contact

- 17-1 Remove the lower case assembly. (See procedure 1.)
- 17-2 Remove the keyboard assembly corresponding to the rubber contact to be removed. (See procedure 15.)
- 17-3 Remove the rubber contact. (Fig.12)

LSI PIN DESCRIPTION

YMW767-VTZ (X6055A00) CPU 14
 S1D13700F01A100 (X5422A00) LCD CONTROLLER 15
 PD789022GB-A15-8E (XZ560100) CPU 15
 ISP1161A1BD (X5879A00) USB CONTROLLER 16
 AK4385ET (X6040A00) DAC 16

YMW767-VTZ (X6055A00) CPU

DM: IC101

Pin No.	NAME	I/O	FUNCTION	Pin No.	NAME	I/O	FUNCTION	
1	VSS	-	VSS	65	VSS	-	VSS	
2	TESTN	I	Input for TEST	66	IOVDD	-	IOVDD +3.3V	
3	PLLBP	I	PLL bypass select	67	LBN/LWRN/PF6	O	External memory lower-byte enable	
4	PLLVDD	-	PLLVDD +2.5V	68	UBN/UWRN/PF7	O	External memory upper-byte enable	
5	CIN	-	Capacitor terminal for PLL	69	RDN/PF4	O	External memory read enable	
6	PLLVSS	-	PLLVSS	70	MD00	I/O	External memory data bus	
7	TRSTN	I	JTAG input	71	MD08	I/O		
8	TMS	I		72	MD01	I/O		
9	TCK	I		73	MD09	I/O		
10	TDI	I	74	MD02	I/O			
11	TD0	O	JTAG output	75	MD10	I/O		
12	XI	I	Crystal oscillator	76	MD03	I/O		
13	XO	O	Crystal oscillator	77	VSS	-	VSS	
14	VSS	-	VSS	78	MD11	I/O	External memory data bus	
15	VDD	-	VDD +2.5V	79	MD04	I/O		
16	ICN	I	Hardware reset	80	MD12	I/O		
17	ECSN	I	CPU I/F chip select	81	MD05	I/O		
18	EWRN/PD5	I	CPU I/F write enable	82	MD13	I/O		
19	ERDN/PD4	I	CPU I/F read enable	83	MD06	I/O		
20	EA3/PD3	I	CPU I/F address bus	84	MD14	I/O		
21	EA2/PD2	I		85	MD07	I/O		
22	EA1/PD1	I		86	MD15	I/O		
23	EA0/PD0	I		87	WRN/PF5	O	External memory write enable	
24	IOVDD	-	IOVDD +3.3V	88	VSS	-	VSS	
25	ED0/PC0	I/O	CPU I/F data bus	89	VDD	-	VDD +2.5V	
26	ED1/PC1	I/O		90	IOVDD	-	IOVDD +3.3V	
27	ED2/PC2	I/O		91	MA17	O	External memory address bus	
28	ED3/PC3	I/O		92	MA16	O		
29	ED4/PC4	I/O		93	MA15	O		
30	ED5/PC5	I/O		94	MA14	O		
31	ED6/PC6	I/O		95	MA13	O		
32	ED7/PC7	I/O	96	MA12	O			
33	VSS	-	VSS	97	MA11	O		
34	IRQ0N/PH0	I	Interrupt input	98	MA10	O		
35	TxD0	O	Serial output	99	MA09	O		
36	RxD0	I	serial input	100	MA08	O		
37	TxD1/PG2	O	Serial output	101	MA07	O		
38	RxD1/PH1	I	serial input	102	MA06	O		
39	SCLK1/PH2	I	External synchronization clock	103	MA05	O		
40	SD0	O	Serial output	104	VSS	-	VSS	
41	SDI/PH3	I	serial input	105	MA04	O	External memory address bus	
42	BCLK	O	Bit clock output	106	MA03	O		
43	WCLK/SY0	O	Word clock output	107	MA02	O		
44	SYCLK/PG3	O	Clock output	108	MA01	O		
45	VSS	-	VSS	109	CS0N/PG0	O	External memory chip select	
46	VDD	-	VDD +2.5V	110	MA18	O	External memory address bus	
47	IOVDD	-	IOVDD +3.3V	111	MA19	O		
48	PA0	I/O	I/O port	112	MA21/PF1	O		
49	PA1	I/O		113	MA22/PF2	O		
50	PA2	I/O		114	MA20	O		
51	PA3	I/O		115	MA23/PF3	O	External memory address bus	
52	PA4	I/O		116	CS1N/PG1	O	External memory chip select	
53	PA5	I/O		117	MA00/PF0	O	External memory address bus	
54	PA6	I/O		118	VSS	-		VSS
55	PA7	I/O	119	VDD	-	VDD +2.5V		
56	VSS	-	VSS	120	IOVDD	-		IOVDD +3.3V
57	PB0	I/O	I/O port	121	CS2N/PE0	O		
58	PB1	I/O		122	CS3N/PE1	O		
59	PB2	I/O		123	CS4N/CASN/PE2	O		
60	PB3	I/O		124	CS5N/PE3	O		
61	PB4	I/O		125	CS50RDN/PE4	O		
62	PB5	I/O		126	CS51WRN/PE5	O		
63	PB6	I/O		127	CS52WRN/PE6	O		
64	PB7/SYI	I/O	128	CS53WRN/RASN/PE7	O			

● S1D13700F01A100 (X5422A00) LCD CONTROLLER

DM:IC201

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	VSS	I	Ground	33	VSS	I	Ground
2	AB12	I		Address bus	34	XCD1	O
3	AB11	I	35		XCG1	I	Gate input
4	AB10	I	36		RESET#	I	Reset
5	AB9	I	37		SCANEN	I	Test mode set up input
6	AB8	I	38		TESTEN	I	
7	HIOVDD	I	Power supply	39	CLK1	I	Externally sourced system clock
8	AB7	I		40	COREVDD	I	Power supply
9	AB6	I	Address bus	41	RD#	I	Read strobe
10	AB5	I		42	WR#	I	Write strobe
11	AB4	I		43	CS#	I	Chip select
12	COREVDD	I		44	DB7	I/O	Data bus
13	AB3	I	45	DB6	I/O		
14	AB2	I	46	DB5	I/O		
15	AB1	I	47	DB4	I/O		
16	AB0	I	Ground	48	HIOVDD	I	Power supply
17	VSS	I		49	DB3	I/O	
18	FPDAT3	O	Data bus	50	DB2	I/O	
19	FPDAT2	O		51	DB1	I/O	
20	FPDAT1	O		52	DB0	I/O	
21	FPDAT0	O		53	VSS	I	Ground
22	NIOVDD	I	Power supply	54	WAIT#	O	Wait output
23	FPSHIFT	O	Shift clock	55	HIOVDD	I	Power supply
24	XECL	O	X driver enable chain clock	56	CNF0	I	Input pin for S1D 13700 setting
25	COREVDD	I	Power supply	57	CNF1	I	
26	FPLINE	O	Latch pulse	58	CNF2	I	
27	MOD	O	Frame signal	59	CNF3	I	
28	VSS	I	Ground	60	CNF4	I	Address strobe
29	YSCL	O		Scan shift clock	61	AS#	
30	FPFRAME	O	Scan start pulse	62	AB15	I	Address bus
31	YDIS	O	LCD power-down output	63	AB14	I	
32	NIOVDD	I	Power supply	64	AB13	I	

● PD789022GB-A15-8E (XZ560100) CPU

DM:IC701

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	P12	I/O	Port 1	23	P32/INTP2/CPT2	I/O	Port 3/External interrupt input/Capture edge input
2	P11	I/O		24	P31/INTP1	I/O	Port 3/External interrupt input
3	P10	I/O		25	P30/INTP0	I/O	
4	P47/KR7	I/O	Port 4/Key return signal detection input	26	P22/RXD/SIO	I/O	Port 2/Asynchronous serial interface serial data input/Serial interface serial data input
5	P46/KR6	I/O		27	P21/TXD/SOQ	I/O	Port 2/Asynchronous serial interface serial data output/Serial interface serial data output
6	P45/KR5	I/O		28	P20/ASCK/ISCK0	I/O	Port 2/Asynchronous serial interface serial clock input/Serial interface serial clock
7	P44/KR4	I/O		29	P07	I/O	Port 0
8	P43/KR3	I/O		30	P06	I/O	
9	P42/KR2	I/O		31	P05	I/O	
10	P41/KR1	I/O		32	P04	I/O	
11	P40/KR0	I/O	33	P03	I/O		
12	NC		Internally connected (N.C.)	34	P02	I/O	
13	IC			35	P01	I/O	
14	X2		Clock	36	P00	I/O	
15	X1	I		37	NC		
16	VSS0	I	Ground	38	VDD1		Power supply
17	VDD0	I	Power supply	39	VSS1	I	Ground
18	/RESET	I	System reset	40	P17	I/O	Port 1
19	P53	I/O	Port 5	41	P16	I/O	
20	P52	I/O		42	P15	I/O	
21	P51/TO2	I/O	Port 5/16-bit timer output	43	P14	I/O	
22	P50/TIO/TO0	I/O	Port 5/External count clock input to 8-bit timer/8-bit timer output	44	P13	I/O	

● **ISP1161A1BD (X5879A00) USB CONTROLLER**

DM: IC301

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	DGND	-	Digital ground	33	NDP_SEL	I	Indicates to the HC
2	D2	I/O	} DATA bus	34	EOT	I	EOT input
3	D3	I/O		35	DGND	-	Digital ground
4	D4	I/O		36	D_SUSPEND	O	DC 'suspend' state output
5	D5	I/O		37	D_WAKEUP	I	DC wake-up input
6	D6	I/O		38	/GL	O	GoodLink LED output
7	D7	I/O		39	D_VBUS	I	DC USB input
8	DGND	-		Digital ground	40	H_WAKEUP	I
9	D8	I/O	} DATA bus	41	CLKOUT	O	Programmable clock out
10	D9	I/O		42	H_SUSPEND	O	HC 'suspend' output
11	D10	I/O		43	XTAL1	I	Crystal input
12	D11	I/O		44	XTAL2	I	Crystal output
13	D12	I/O		45	DGND	-	Digital ground
14	D13	I/O		46	/H_PSW1	O	Power switching control
15	DGND	-		Digital ground	47	/H_PSW2	O
16	D14	I/O	} DATA bus	48	D_DM	A/I/O	USB D- data line for DC
17	D15	I/O		49	D_DP	A/I/O	USB D+ data line for DC
18	DGND	-	Digital ground	50	H_DM1	A/I/O	USB D- data line for HC
19	Vhold1	-	Voltage holding pin	51	H_DP1	A/I/O	USB D+ data line for HC
20	NC	-	No connection	52	H_DM2	A/I/O	USB D- data line for HC
21	/CS	I	Chip select	53	H_DP2	A/I/O	USB D+ data line for HC
22	/RD	I	Read strobe	54	/H_OC1	I	Overcurrent sensing input
23	/WR	I	Write strobe	55	/H_OC2	I	Overcurrent sensing input
24	Vhold2	-	Voltage holding pin	56	Vcc	-	Power supply(3.3V)
25	DREQ1	O	HC DMA request	57	AGND	-	Analog ground
26	DREQ2	O	DC DMA request	58	Vreg	-	3.3V regulator output
27	/DACK1	I	HC DMA acknowledge	59	A0	I	Address bus
28	/DACK2	I	DC DMA acknowledge	60	A1	I	Address bus
29	INT1	O	HC interrupt output	61	NC	-	No connection
30	INT2	O	DC interrupt output	62	DGND	-	Digital ground
31	TEST	O	test output	63	D0	I/O	} DATA bus
32	/RESET	I	Reset input	64	D1	I/O	

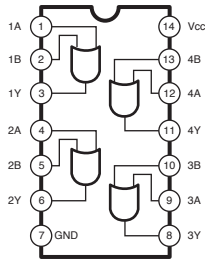
● **AK4385ET (X6040A00) DAC (Digital to Analog Converter)**

DM:IC401

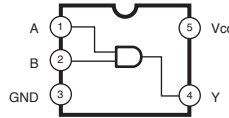
PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	MCLK	I	Master Clock	9	AOUTR-	O	Rch Analog out(-)
2	BICK	I	Audio Serial Data Clock	10	AOUTR+	O	Rch Analog out(+)
3	SDTI	I	Audio Serial Date Input	11	AOUTL-	O	Lch Analog out(-)
4	LRCK	I	L/R Clock	12	AOUTL+	O	Lch Analog out(+)
5	PDN	I	Power Down mode	13	Vss	-	Ground
6	CSN	I	Chip Select	14	VDD	-	Power Supply
7	CCLK	I	Control Data Input	15	DZFR	O	Rch Data Zero Input Detect
8	CDTI	I	Control Data Input	16	DZFL	O	Lch Data Zero Input Detect

IC BLOCK DIAGRAM

- **SN74LV32APWR** (X5647A00)
Quad 2 Input OR
DM:IC805



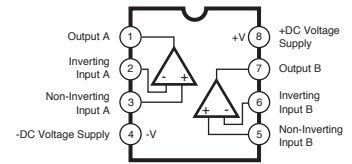
- **SN74AHCT1G08DCKR** (X0158A00)
● **74V1T08CTR** (X7542A00)
Single 2-Input Positive-AND Gate
DM: IC103,104



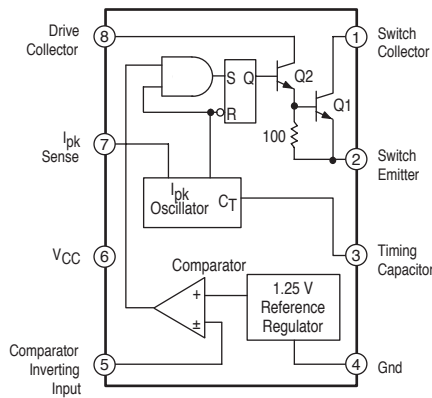
FUNCTION TABLE

INPUTS		OUTPUT
A	B	Y
H	H	H
L	X	L
X	L	L

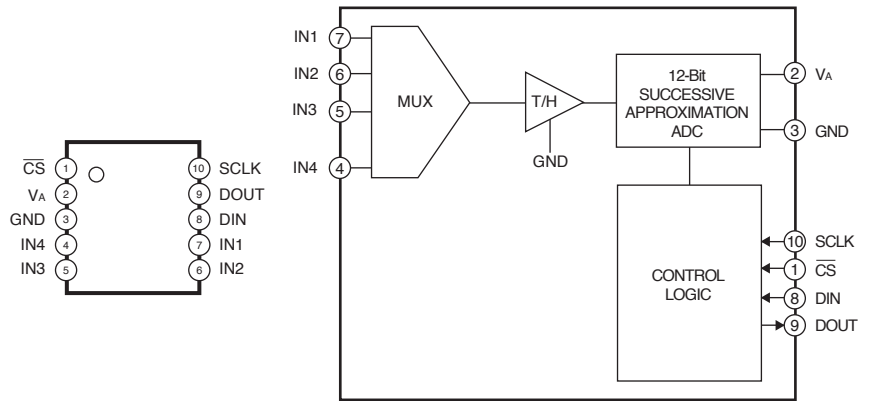
- **NJM4580E(TE2)** (X2331A00)
Dual Operational Amplifier
DM: IC402



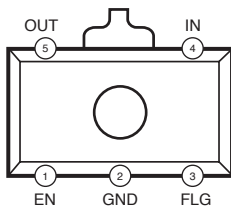
- **MC34063EBD-TR** (X7371A00)
DC-DC Converter
DM:IC202



- **ADC84S021** (X6905A00)
A/D Converter
DM: IC501

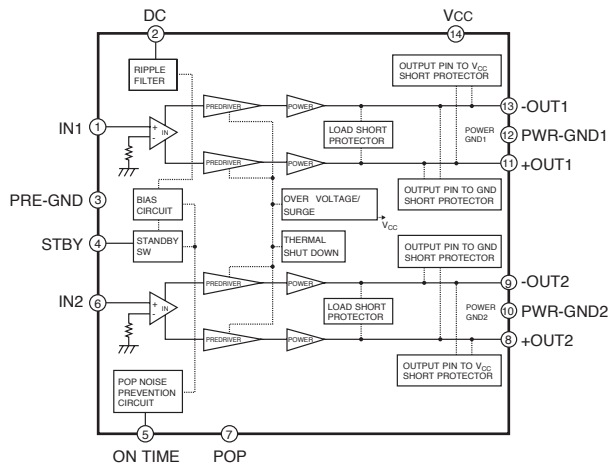


- **R5520H001A** (X7414A00)
USB High Side Switch
DM: IC302



Pin No.	Pin Name	Function
1	EN	Enable (Input)
2	GND	Ground
3	FLG	Fault Flag (Open-drain Output)
4	IN	Power Supply Input
5	OUT	Switch Output (Switch of the high side switch)

- **LA4625** (XY209A00)
Power Amplifier
AM: IC201



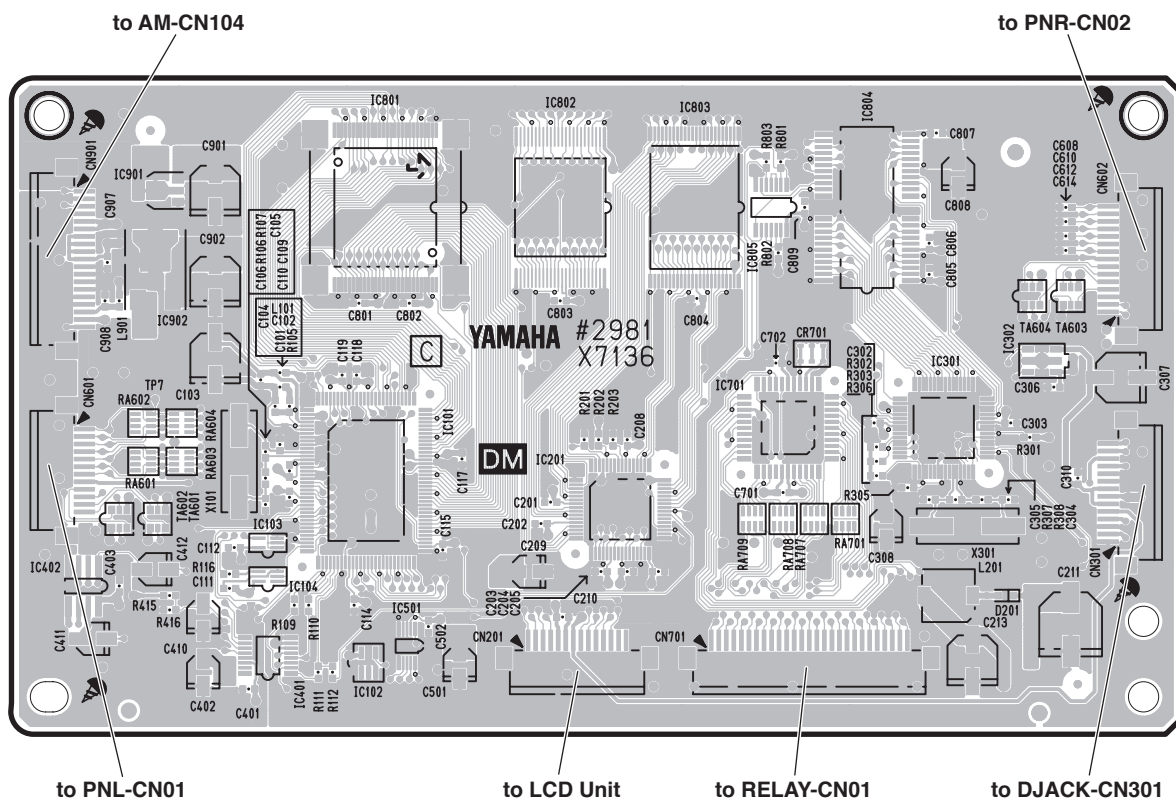
■ CIRCUIT BOARDS

CONTENTS

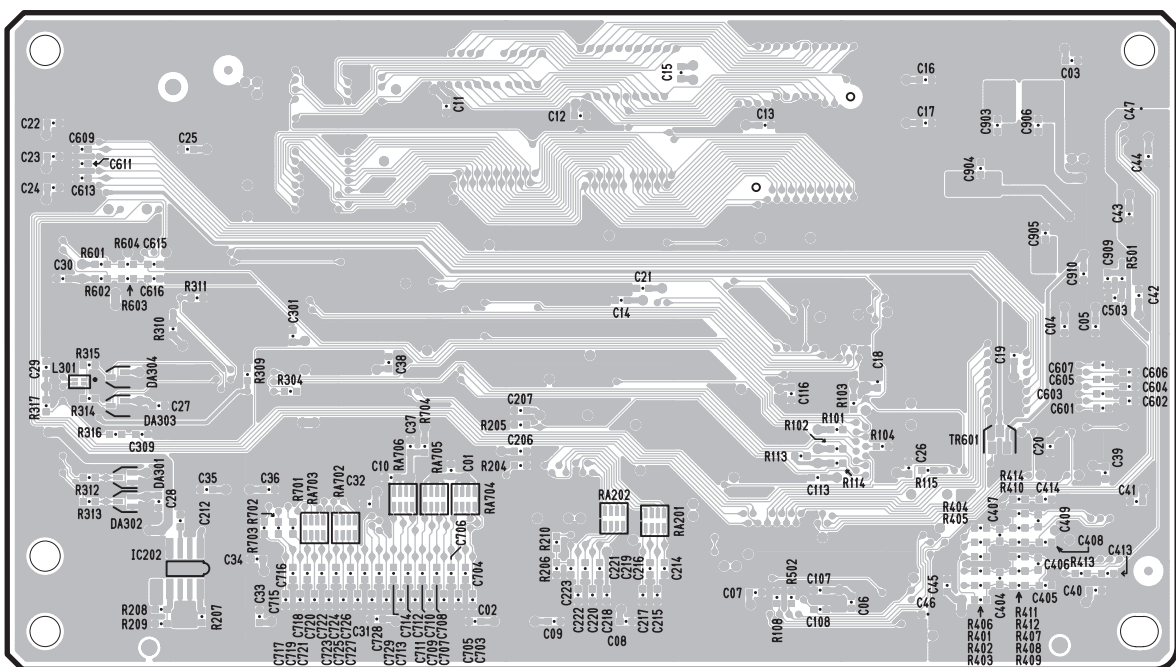
AM Circuit Board (X7135B0)	20
DJACK Circuit Board (X7135B0)	20
DM Circuit Board (X7136C0)	19
ENC Circuit Board (X7135B0)	23
MK-88C Circuit Board (X0001A0)	25
MK-88H Circuit Board (X0000A0)	24
MK-88L Circuit Board (X0002A0)	24
MVR Circuit Board (X7135B0)	23
PB Circuit Board (X7135B0)	23
PNL Circuit Board (X7137B0)	21
PNR Circuit Board (X7137B0)	22
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TW Circuit Board (X7135B0)	23

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

• DM Circuit Board

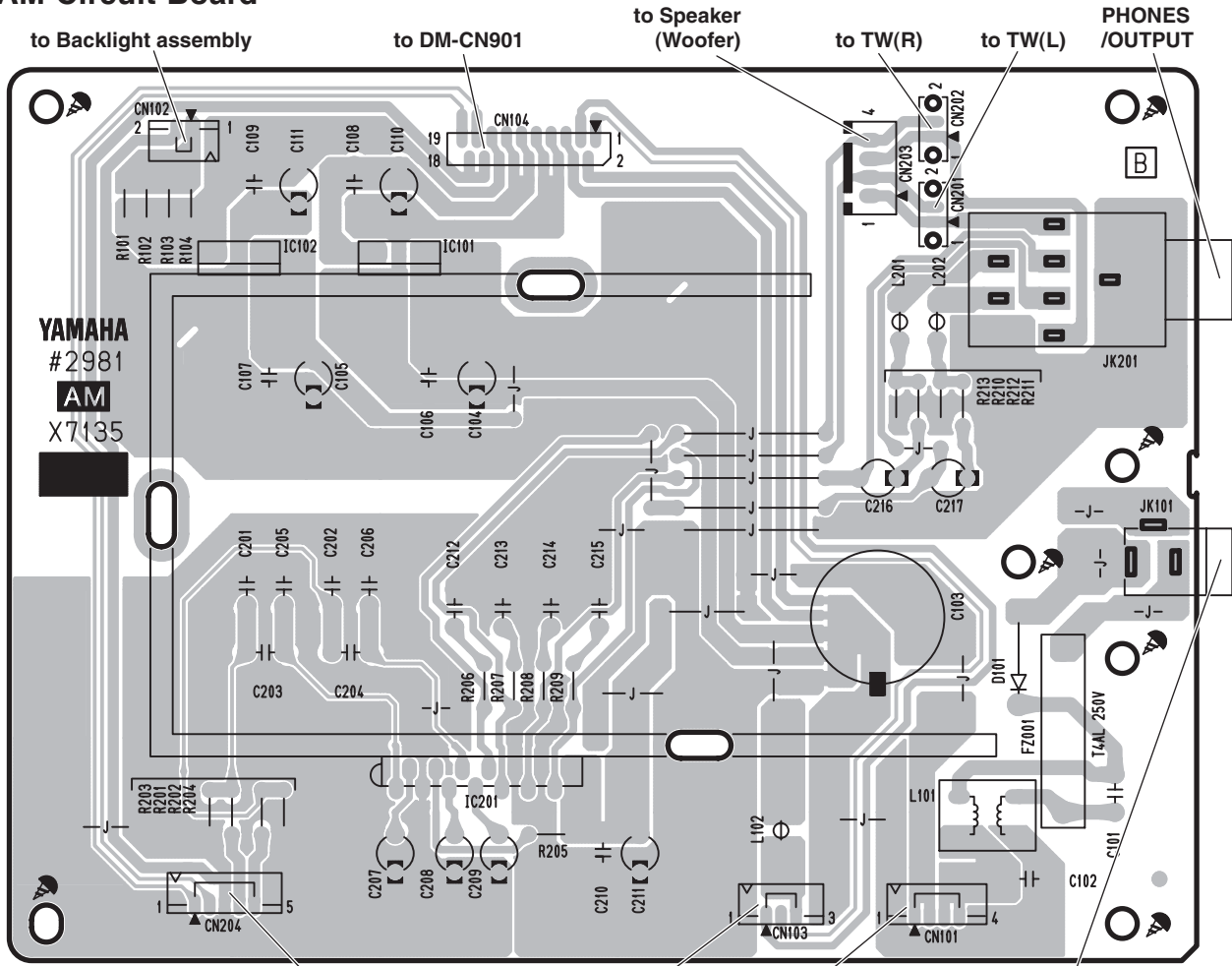


Component Side

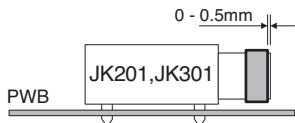


Pattern Side

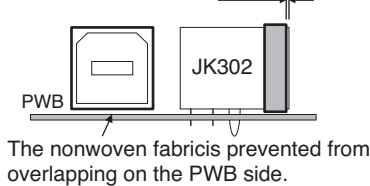
• AM Circuit Board



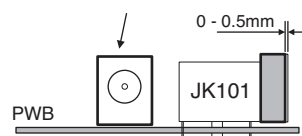
A nonwoven fabric does not overflow from the end of a jack.



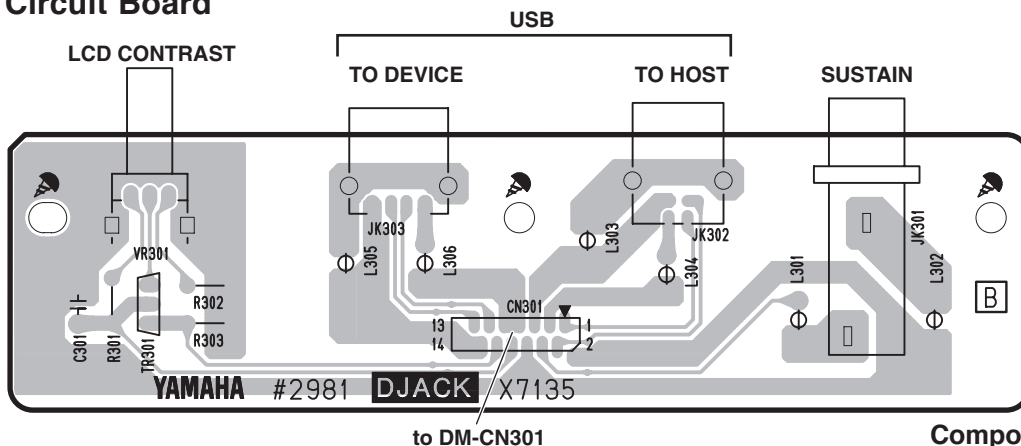
0.5-1.0mm



To pile it up in the upper side, it is pasted.



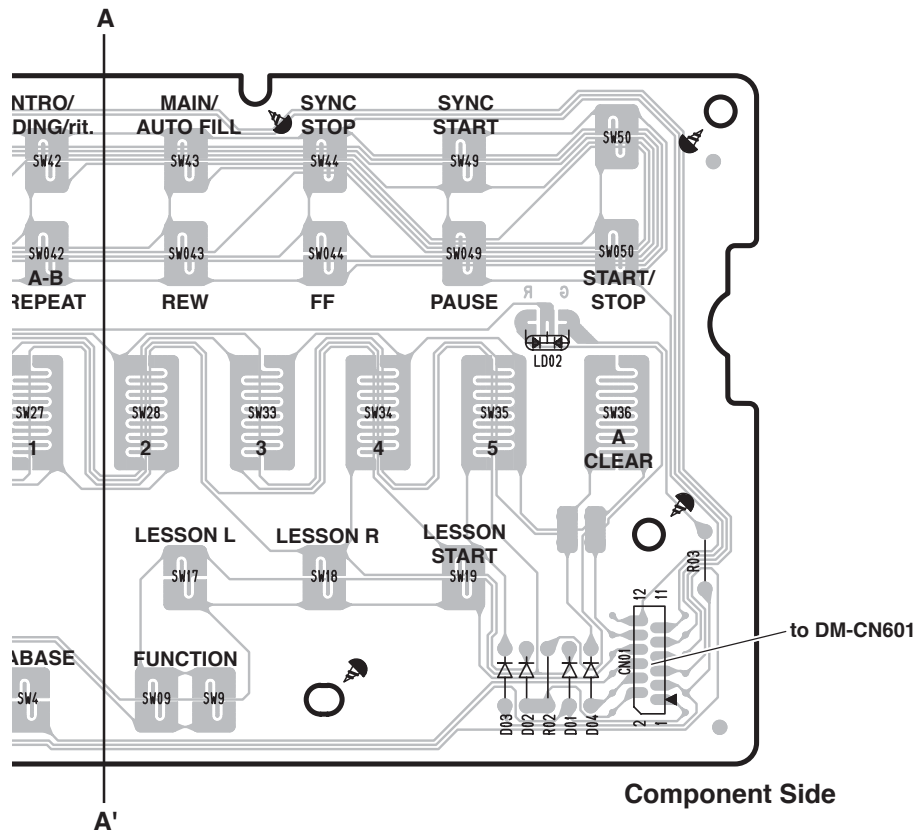
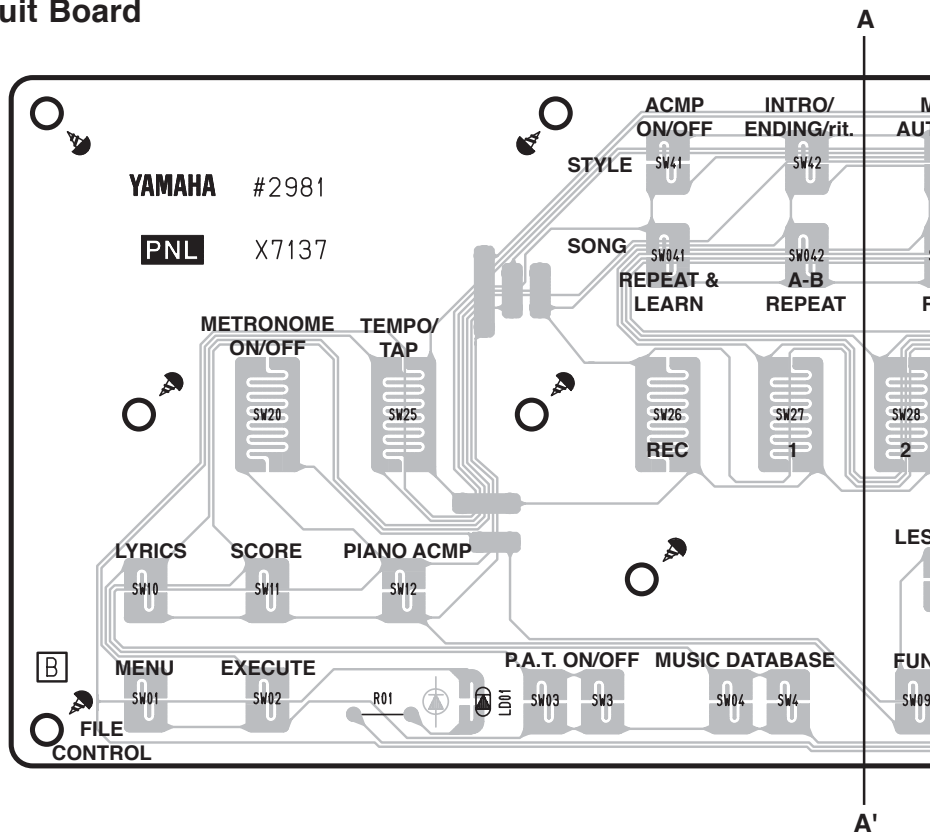
• DJACK Circuit Board



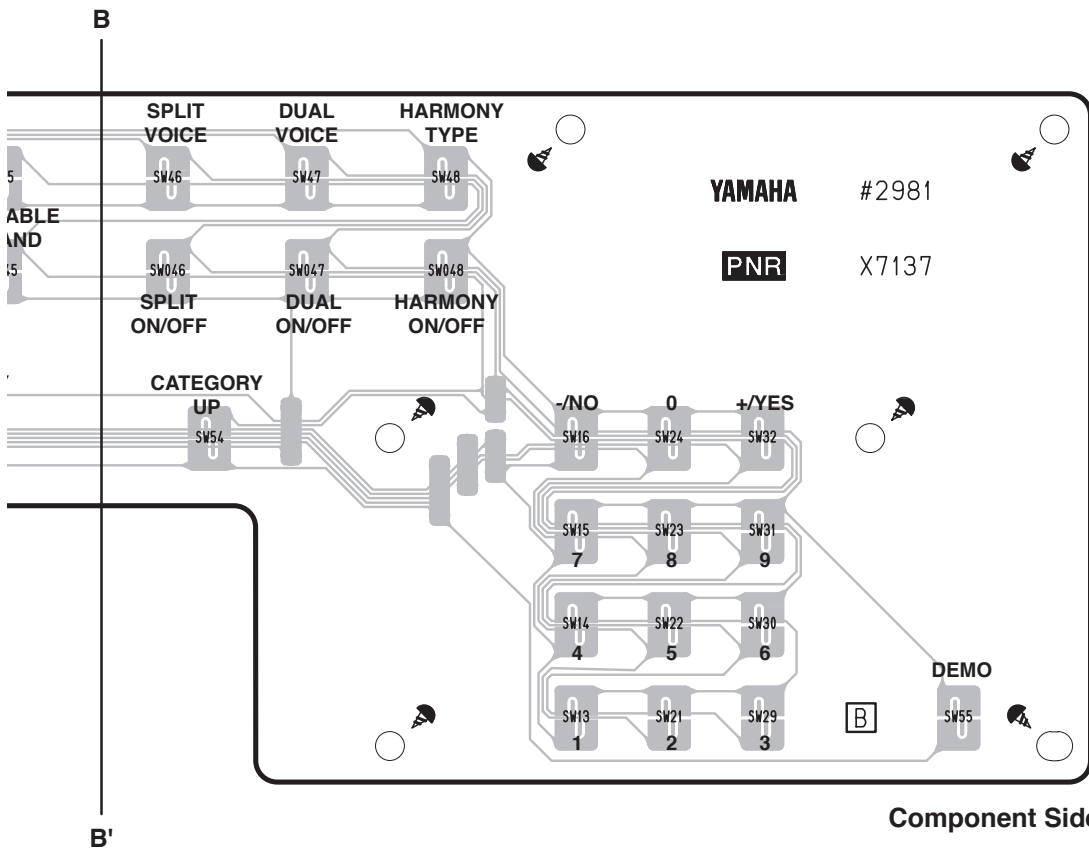
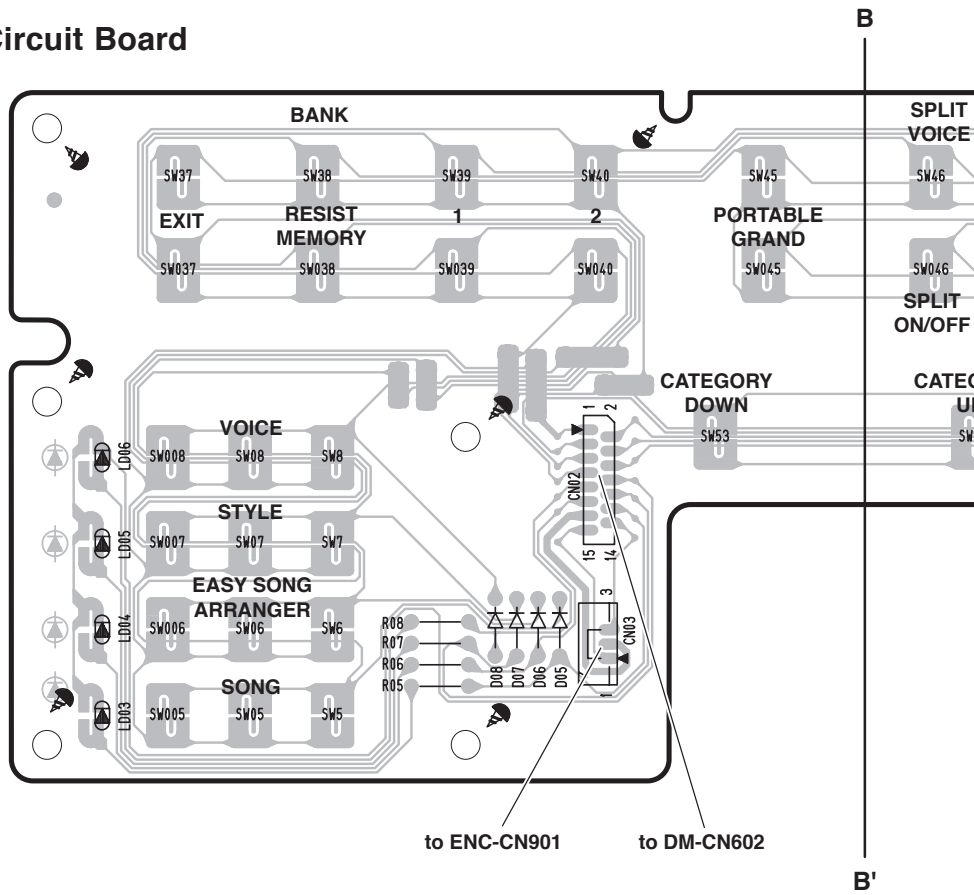
Note: See parts list for details of circuit board component parts.

AM : 2NA-WG25900
 DJACK : 2NA-WG25900

• PNL Circuit Board



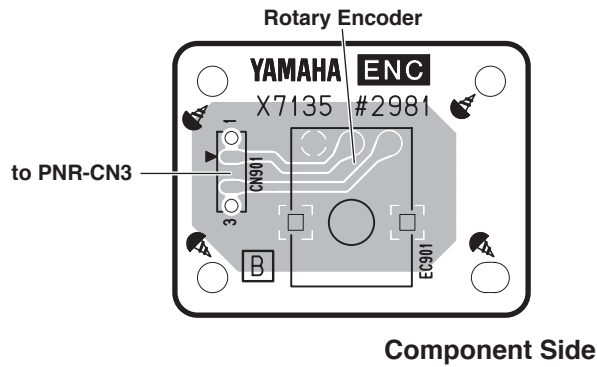
• PNR Circuit Board



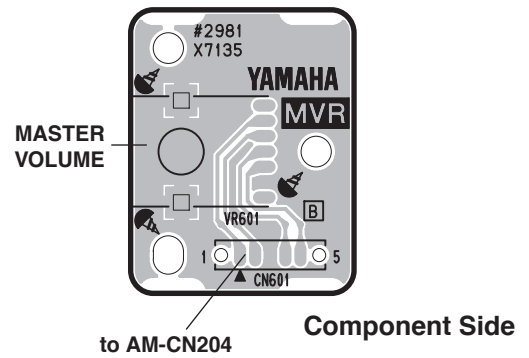
Note: See parts list for details of circuit board component parts.

2NA-WG25520

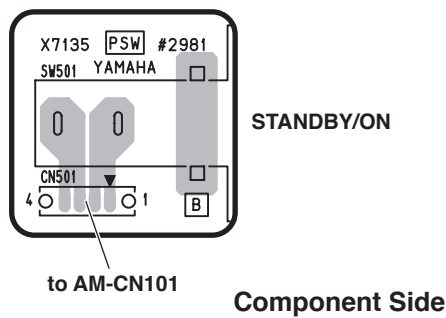
• ENC Circuit Board



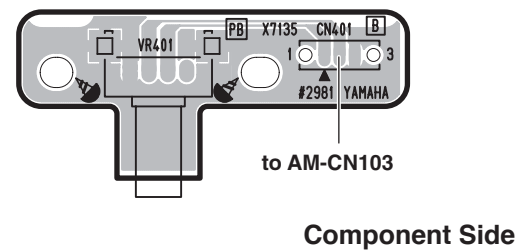
• MVR Circuit Board



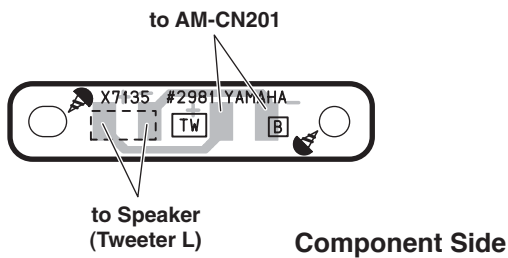
• PSW Circuit Board



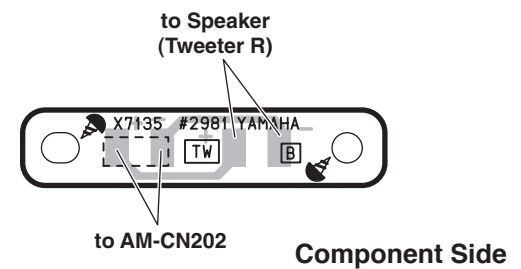
• PB Circuit Board



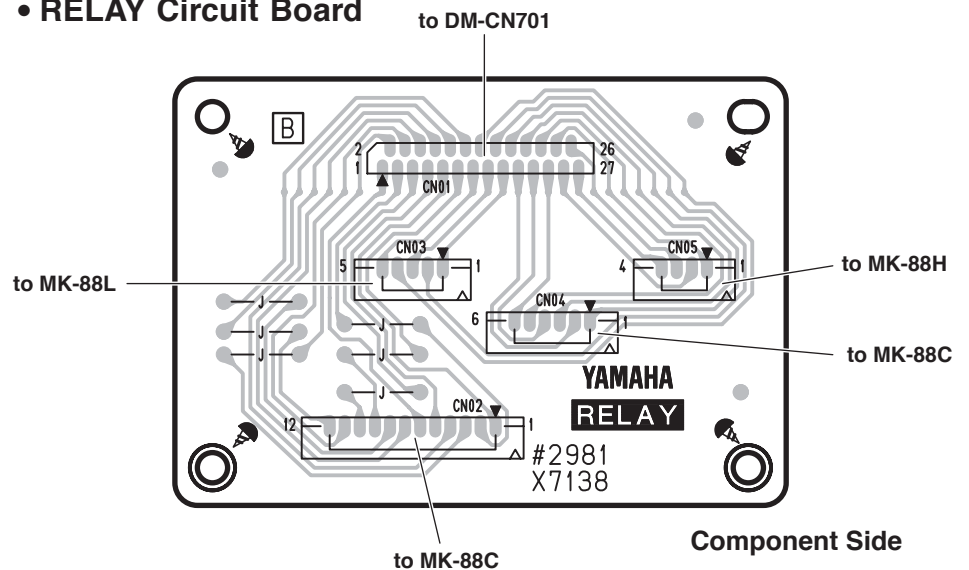
• TW (L) Circuit Board



• TW (R) Circuit Board



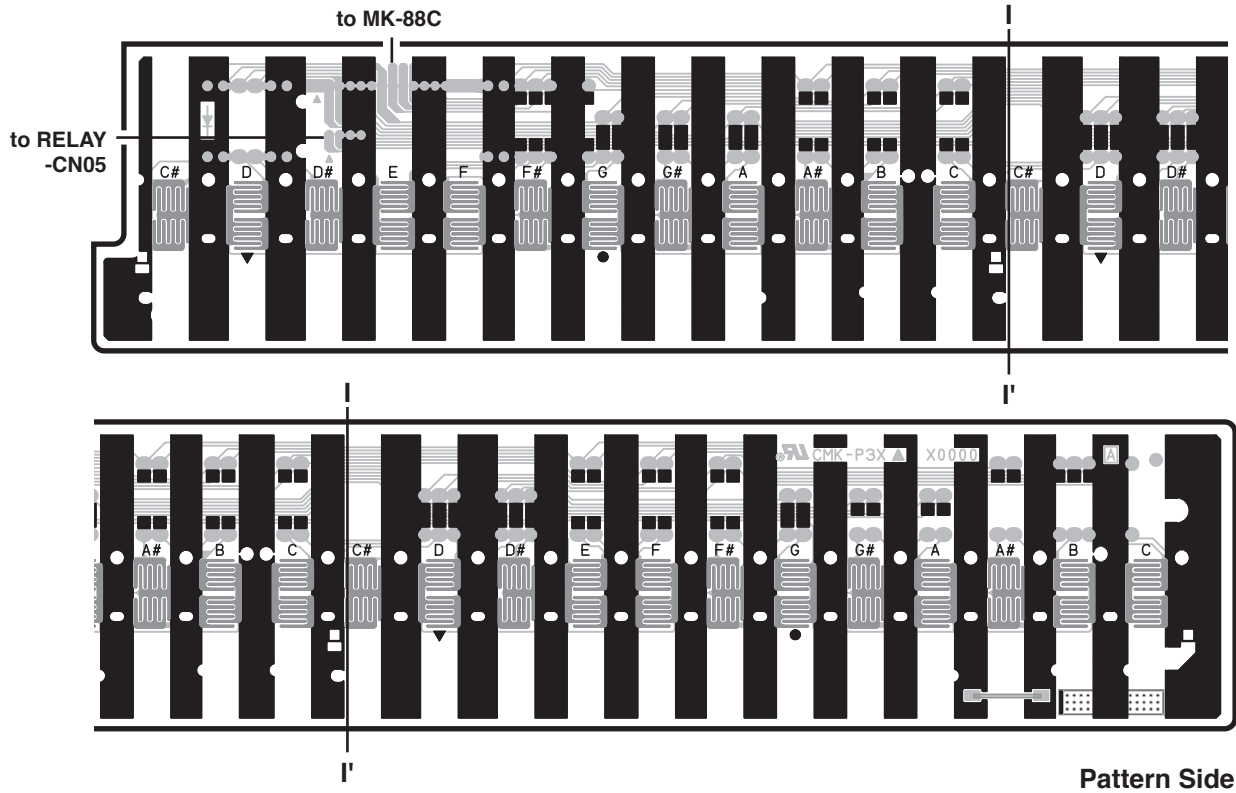
• RELAY Circuit Board



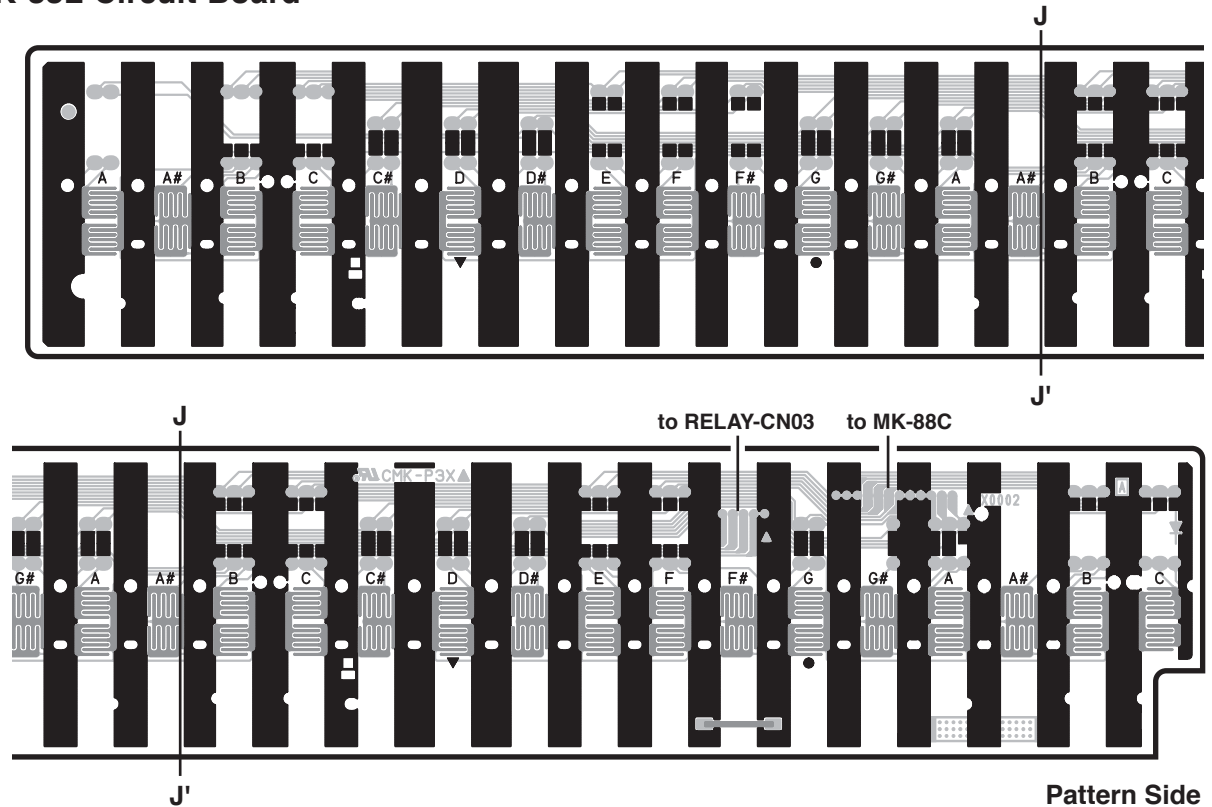
- ENC :2NA-WG25900
- PSW :2NA-WG25900
- TW :2NA-WG25900
- MVR :2NA-WG25900
- PB :2NA-WG25900
- RELAY :2NA-WG20090

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

• MK-88H Circuit Board



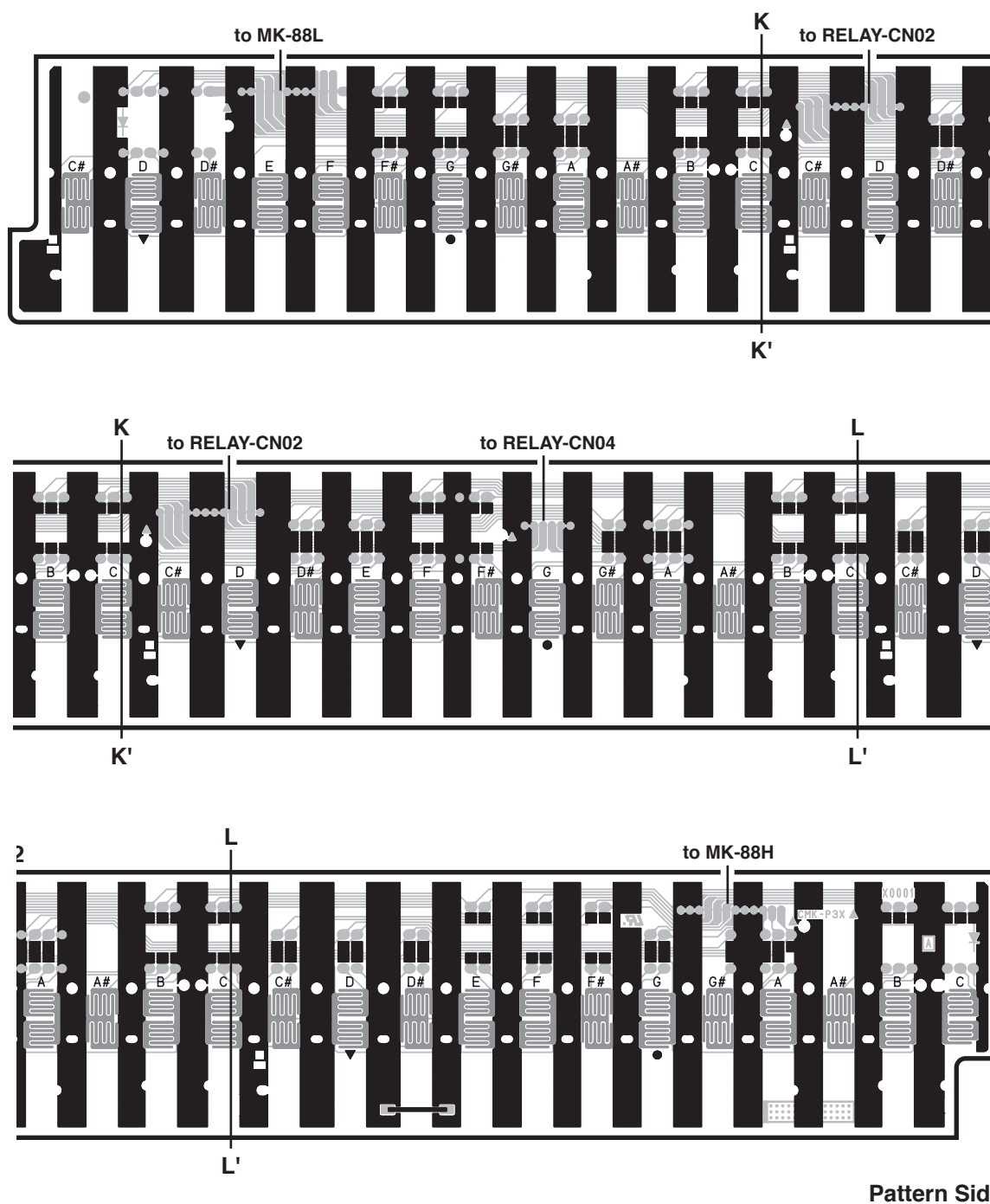
• MK-88L Circuit Board



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

MK-88H :2LPK8-X0000A0
 MK-88L :2LPK8-X0002A0

• MK-88C Circuit Board



■ TEST PROGRAM

* If you execute the test No.47 (Factory Set), then the user's preset data may be lost. Therefore, back up the user's data in advance.

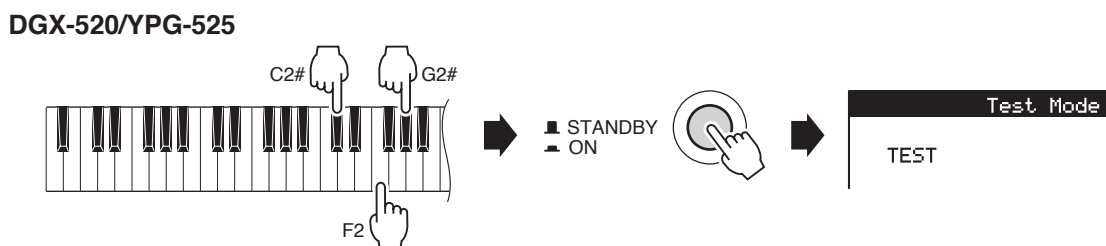
A. PREPARATION

- 1) PA-5D or PA-51 (AC adaptor) is used.
- 2) Measuring instruments: frequency counter, level meter (with JIS-C filter)
Note: Connect a stereo plug to the [PHONES/OUTPUT] jack at 33 ohms.
- 3) Jigs: Foot switch (FC-4 or FC-5), USB cable, USB memory, USB-MIDI driver (*1)
PC (Install a USB-MIDI driver (*1) in PC and finish the THROUGH setup.)

*1 Obtain the USB-MIDI driver from CD-ROM (X7225A00) for DGX-520/YPG-525 or Yamaha official website.
(URL>><http://www.yamahapkclub.com>)

B. HOW TO ENTER THE TEST PROGRAM

While pressing the C2#, F2 and G2# keys, turn the [STANDBY/ON] switch on.



C. TEST PROCEDURE

- 1) When the test program is started, "TEST" will be displayed on the LCD.
- 2) Press the [-] or [+] button of the number buttons to select a test program item.
- 3) Press the [START/STOP] button to execute the test.

* If the test result is OK, or the test item is completed, press the [START/STOP] button again to return to the test item selection display.

* Press the [-] or [+] button of the number buttons to select the next test program item.

* When the test result is OK, an asterisk (*) is added in front of its item name on display.
If the test result is NG, press the [DEMO] button or the lowest (leftmost) white key to return the item selection display.

D. TEST PROGRAM LIST

(dBu=dBm)

TEST No.	LCD Display	Test Descriptions, Judgment Criteria
--	--	Contrast Check Set the contrast knob to the legible position of LCD. When the contrast knob is turned clockwise (or counterclockwise), the LCD becomes blue (or white).
1	001 Version	Displays ROM (Program) version. (In case of OK:"XXX" Prog, NG:"Err" Prog)
2	002 Rom Chk1	Checks the ROM that is connected to the CPU. (OK:"Rom OK", NG:"Rom NG") The test results appear on the LCD. Check that the LCD displays "Rom OK".

TEST No.	LCD Display	Test Descriptions, Judgment Criteria
3	003 Ram Chk1	Checks the RAM that is connected to the CPU. (OK:“Ram OK”, NG:“Ram NG”) The test results appear on the LCD. Check that the LCD displays “Ram OK”.
6	006 Flash Rom Chk1	Checks the flash ROM that is connected to CPU bus. The check result appears on the LCD. Check that the LCD displays “Flash Rom OK”. (OK:“Flash Rom OK”, NG:“Flash Rom NG”)
7	007 USB Storage Chk	Checks USB. (OK:“USB Storage OK”, NG:“USB Storage NG”) Connect a USB memory to the [USB TO DEVICE] jack with a USB cable, and execute the test. The test results appear on the LCD. Check that the LCD displays “USB Storage OK”.
11	011 TG1 Chk	Outputs the sine wave by changing the channels in sequence from C2 to G4. [32 notes] Check the sound by hearing that there is no noise or abnormal sound. After auto-scaling is finished, individual keys can be played. (If playing two or more keys simultaneously, the first pressed key has priority to make a sound.)
13	013 Pit Chk	Connect the frequency counter to the [PHONES/OUTPUT] jack. (L or R) Sets PAN to Center and produces a signal at 440.14 Hz +/-0.22 Hz. Check that the correct signal is produced.
--	--	Volume Decrescence Check Connect the level meter (with a JIS-C filter) to the [PHONES/OUTPUT] jack. (33 ohm load) Set the [MASTER VOLUME] at minimum and check the output level. PHONES L : less than -70.0 dBu PHONES R : -70.0 dBu (dBu=dBm)
14	014 Output R	Connect the level meter (with a JIS-C filter) to the [PHONES/OUTPUT] jack. (33 ohm load) Set the [MASTER VOLUME] at maximum and check the output level (1 kHz sine wave, PAN=R). PHONES L : less than -45.0 dBu PHONES R : -1.0 dBu +/-2 dB
15	015 Output L	Connect the level meter (with a JIS-C filter) to the [PHONES/OUTPUT] jack. (33 ohm load) Set the [MASTER VOLUME] at maximum and check the output level (1 kHz sine wave, PAN=L). PHONES L : -1.0 dBu +/- 2 dB PHONES R : less than -45.0 dBu
20	020 SW Chk	Checks the switches on the panel. Press the switches on the LCD as instructed. A pre-assigned note is output when the switch is pressed. A rotary encoder is clockwise set up to UP and is counterclockwise set to DOWN. (See P.29 “Table 1”.) The check result appears on the LCD when all the switches are pressed as instructed. Check that “SW OK” is displayed. Also, check that no key stick is existed. (OK:“SW OK”, NG:“SW NG”, When multiple switchs are pressed at the same time:“Over Two”)
21	021 All LED Chk	Check that all the LEDs on the panel are on.
22	022 Red LED Chk	Check that all the red LEDs on the panel are on.
23	023 Green LED Chk	Check that all the green LEDs on the panel are on.
28	028 LCD On	Check that all LCD dots are on. (The whole screen becomes white.)
29	029 LCD Off	Check that all LCD dots are off. (The whole screen becomes blue.)
31	031 Pedal1 Chk	Connect the foot switch (FC-4 or FC-5) to the [SUSTAIN] jack. Check that the C3 note is output when the [START/STOP] button is pressed while stepping the pedal and the C4 note is output when releasing the pedal. The sound stops when stepping the pedal again. Check that the LCD displays “Pedal1 OK”. (OK:“Pedal1 OK”, NG:“Pedal1 NG”)

TEST No.	LCD Display	Test Descriptions, Judgment Criteria
33	033 Pitch Bend Chk	Checks the pitch bend wheel. (First, it checks if the center position of the wheel is correct or not.) Check that the C3 note is output when rotating the [PITCH BEND] wheel to minimum and the C4 note is output when rotating it to maximum. (OK:“Pitch Bend OK”, NG:“Pitch Bend NG”, If the center position of the wheel is not correct:“Pitch Bend C NG”)
37	037 MIDI Chk	Checks MIDI and USB. Connect the PC with a USB-MIDI driver installed and the [USB TO HOST] terminal using a USB cable, and execute the test. (As for the PC, install a USB-MIDI driver in the PC and finish the THROUGH setup, in advance.) Check that the C4 note is output and the LCD displays “MIDI OK”. (OK:“MIDI OK”, NG:“MIDI NG”)
41	041 Rom Chk2	Checks the ROM that is connected to the CPU. The test result appears on the LCD. Check that the LCD displays “Rom OK”. It takes about 20 seconds. (OK:“Rom OK”, NG:“Rom NG”)
42	042 Ram Chk2	Check the RAM that is connected to the CPU. The test results appear on the LCD. Check that the LCD displays “Ram OK”. It takes about 5 seconds. (OK:“Ram OK”, NG:“Ram NG”)
45	045 Flash Rom Chk2	Checks the flash ROM that is connected to CPU bus. The check result appears on the LCD. Check that the LCD displays “Flash Ram OK”. It takes about 60 seconds. (OK:“Flash Rom OK”, NG:“Flash Rom NG”)
47	047 Factory set	All backup domains are initialized and it changes into a factory-shipments state when executing this test.
48	048 Test Exit	Exit from the test program after executing this test.
--	--	Noise Check (in the normal mode) Connect the level meter (with a JIS-C filter) to the [PHONES/OUTPUT] jack. (33 ohm load) Set the [MASTER VOLUME] at maximum and check that the noise level is within the range below. PHONES L/R : less than -74.0 dBu

* Note: As for the test no.41 - 45, it takes time. If you want to skip them, press the [+ / YES] button several times to go to the test no.47 (Factory Set).

Table 1

No.	SW Name	Display	Note No.
1	DIAL UP	Dial Up	C2
2	DIAL DOWN	Dial Down	C#2
3	FILE MENU	File Menu	D2
4	FILE EXECUTE	File Excute	D#2
5	P.A.T.	P. A.T.	E2
6	Music Data Base	MusicDataBase	F2
7	FUNCTION	Function	F#2
8	LYRICS	Lyrics	G2
9	SCORE	Score	G#2
10	Chord Finger	Chord Finger	A2
11	LESSON L	Lesson L	A#2
12	LESSON R	Lesson R	B2
13	LESSON START	Lesson Start	C3
14	METRONOME	Metronome	C#3
15	TEMPO/TAP	Tempo/TAP	D3
16	SONG REC	SONG REC	D#3
17	SONG 1	SONG 1	E3
18	SONG 2	SONG 2	F3
19	SONG 3	SONG 3	F#3
20	SONG 4	SONG 4	G3
21	SONG 5	SONG 5	G#3
22	SONG A	SONG A	A3
23	ACMP	ACMP	A#3
24	INTRO/ENDING	Intro/Ending	B3
25	MAIN/AUTO FILL	Main/Fill	C4
26	SYNC STOP	Sync Stop	C#4
27	SYNC START	Sync Start	D4
28	START/STOP	Start/Stop	D#4
29	SONG	SONG	E4
30	EASY SONG ARRANGER	EasySongArrange	F4
31	STYLE	Style	F#4
32	VOICE	Voice	G4
33	CATEGORY -	Category -	G#4
34	CATEGORY +	Category +	A4
35	TENKEY 1	Tenkey 1	A#4
36	TENKEY 2	Tenkey 2	B4
37	TENKEY 3	Tenkey 3	C5
38	TENKEY 4	Tenkey 4	C#5
39	TENKEY 5	Tenkey 5	D5
40	TENKEY 6	Tenkey 6	D#5
41	TENKEY 7	Tenkey 7	E5
42	TENKEY 8	Tenkey 8	F5
43	TENKEY 9	Tenkey 9	F#5
44	TENKEY -	Tenkey -	G5
45	TENKEY 0	Tenkey 0	G#5
46	TENKEY +	Tenkey +	A5
47	EXIT	Exit	A#5
48	BANK/MEMORY	Memory	B5
49	REGIST 1	Regist 1	C6
50	REGIST 2	Regist 2	C#6
51	PORTABLE GRAND	Portable Grand	D6
52	SPLIT	Split	D#6
53	DUAL	Dual	E6
54	HARMONY	Harmony	F6
55	DEMO	Demo	F#6

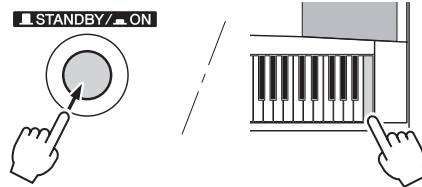
■ INITIALIZATION

This function erases all backup data in the instrument's flash memory and restores the initial default settings. The following initialization procedures are provided.

Backup Clear

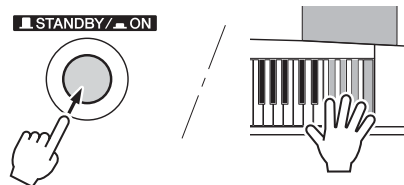
To clear data backed up to the internal flash memory-panel user setting, registration memory, user songs, style file-turn the power on by pressing the [STANDBY/ON] switch while holding the highest white key on the keyboard.

The backed up data will be erased and the default values restored.



Flash Clear

To clear song data and style files that have been transferred to the internal flash memory from a computer, turn the power on by pressing the [STANDBY/ON] switch while simultaneously holding the highest white key on the keyboard and the three highest black keys.



When you execute the Flash Clear operation, song data you have purchased will also be cleared. Be sure to save data you want to keep to a computer.

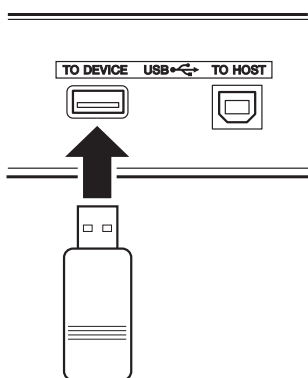
■ USER DATA BACKUP

To backup user data to an external device, use a USB flash memory. Refer to the following for the data you can backup using it.

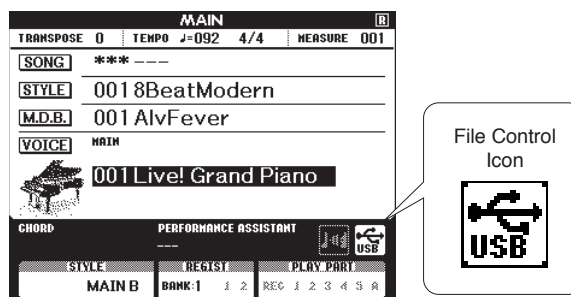
- * User Songs
- * Style Files
- * Registration Memory Data

Connecting a USB Flash Memory

1 Connect a USB flash memory to the USB TO DEVICE terminal, being careful to insert it with the proper orientation.



2 Check that the file control icon is shown in the MAIN display.

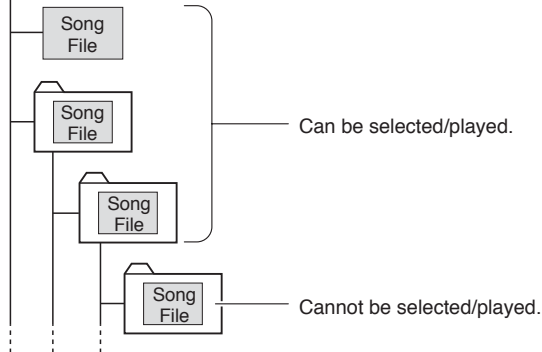


You can go to the FILE CONTROL display from which you can access USB flash memory operations by pressing the [MENU] button from this display.

IMPORTANT

* In order to play songs copied to a USB flash memory from a computer or other device, the songs must be stored either in the USB flash memory's root directory or a first-level/second-level folder in the root directory. Songs stored in these location can be selected and played as song numbers 036 - 535. Songs stored in third-level-folders created inside a second-level folder cannot be selected and played by this instrument.

USB flash memory (Root)



NOTE

* No sound will be produced if you play the keyboard while the FILE CONTROL display is showing. Also, in this state only buttons related to file functions will be active.

NOTE

* The FILE CONTROL display will not appear in any of the following cases:

- * During style or song playback.
- * During a lesson.
- * While data is being loaded from a USB flash memory.

Formatting USB Flash Memory

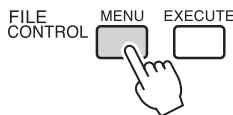
New USB flash memory must be formatted before they can be used by this instrument.

CAUTION

**If you format a USB flash memory that already contains data, all of the data will be erased. Be careful not to erase important data when using the format function.*

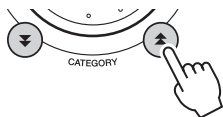
- 1 After connecting the USB flash memory to be formatted to the instrument's USB TO DEVICE terminal, check that the icon is showing in the MAIN display.

- 2 Press the FILE CONTROL [MENU] button.



- 3 Use the CATEGORY [▲] and [▼] buttons to select the Format item.

The display prompts you for confirmation.



- 4 Press the [EXECUTE] button and the display prompts you for confirmation.

You can press the [-] button at this point to cancel the operation.

- 5 Press the [EXECUTE] button again, or the [+] button, and the format operation will begin.

CAUTION

**Once the format-in-progress message appears on the display the format operation cannot be canceled. Never turn off the power or remove the USB flash memory during this operation.*

- 6 A message will appear on the display to inform you that the operation has finished.

Press the [EXIT] button to return to the MAIN display.

NOTE

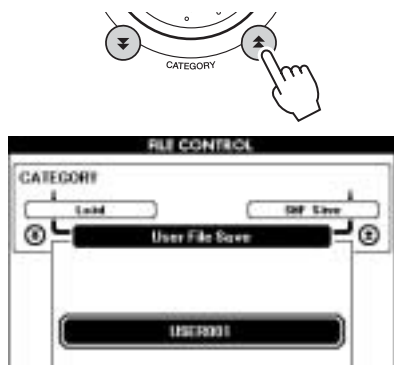
** If the USB flash memory has been write-protected, an appropriate message will appear on the display and you will not be able to execute the operation.*

Saving Data

Three types of data are saved to one 'User File' by this operation: user song, style file, and registration memory data. When you save a user song the style file and registration memory are also saved automatically.

- 1 Make sure that a properly formatted USB flash memory has been properly connected to the instrument's USB TO DEVICE terminal, and that the icon is showing in the MAIN display.
- 2 Press the FILE CONTROL [MENU] button.
- 3 Use the CATEGORY [▲] and [▼] buttons to locate the User File Save item.

A default file name will automatically be created.



● To Overwrite an Existing File

If you want to overwrite a file that already exists on the USB flash memory, use the dial or the [+] and [-] buttons to select the file, then skip ahead to step 6.

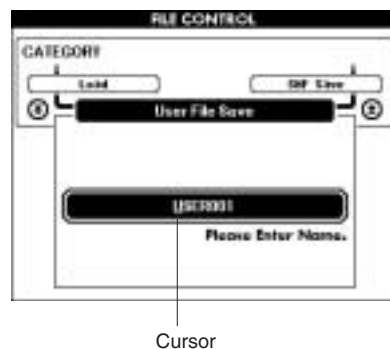
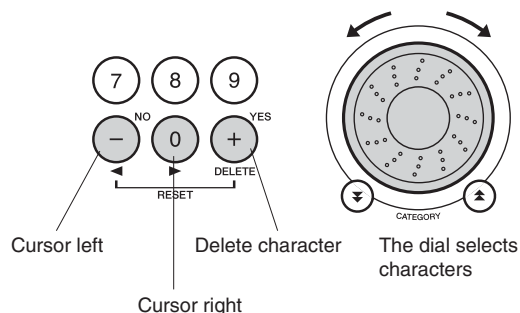
NOTE

- * Up to 100 user files can be saved to a single USB flash memory.
- * If the USB flash memory has been write-protected, an appropriate message will appear on the display and you will not be able to execute the operation.
- * If there is not enough capacity left on the USB flash memory to save the data an appropriate message will appear on the display and you will not be able to save the data. Erase unwanted files from the USB flash memory to make more memory available, or use a different USB flash memory.

- 4 Press the [EXECUTE] button. A cursor will appear below the first character in the file name.

- 5 Change the file name as necessary.

- * The [-] button moves the cursor to the left, and the [0] button moves it to the right.
- * Use the dial to select a character for the current cursor location.
- * The [+] button deletes the character at the cursor location.



- 6 Press the [EXECUTE] button. The display prompts you for confirmation. You can cancel the save operation at this point by pressing the [-] button.
- 7 Press the [EXECUTE] button again, or the [+] button, and the save operation will begin.

The user song will be stored to the USER FILE folder in the USB flash memory.

CAUTION

* Once the save-in-progress message appears on the display the operation cannot be canceled. Never turn off the power or remove the USB flash memory during this operation.

- 8 A message will appear on the display to inform you that the operation has finished.

Press the [EXIT] button to return to the MAIN display.

NOTE

- * If an existing filename is specified the display prompts you for confirmation. Press [EXECUTE] or [+] if it is OK to overwrite the file, or [-] to cancel.
- * The amount of time it will take to perform the save operation will depend on the condition of the USB flash memory.

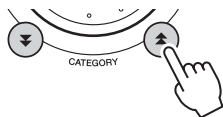
Loading User Files and Style Files

User files, style files, and styles residing on a USB flash memory can be loaded into the instrument. If the required style file has already been transferred to the instrument from a computer using the Musicsoft Downloader application, start from step 2, below.

CAUTION

* If you load a User File user song (031-035), style file, and registration memory data will be overwritten by the newly loaded data. If you only load a style file, only the style file will be overwritten. Save important data to a USB flash memory before loading data that will overwrite it.

- 1 With the USB flash memory containing the file you want to load connected to the USB TO DEVICE connector, check that the File Control icon is shown in the MAIN display.
- 2 Press the FILE CONTROL [MENU] button.
- 3 Use the CATEGORY [▲] and [▼] buttons to locate the Load item.



- 4 Use the dial to select the user file or style file you want to load.

All user files in the USB flash memory will be displayed first, followed by the style files.

NOTE

* Style files must be located in the root directory. Style files located within folders will not be recognized.

- 5 Press the [EXECUTE] button. The display prompts you for confirmation.

You can cancel the load operation at this point by pressing the [-] button.

- 6 Press the [EXECUTE] button again, or the [+] button, and the load operation will begin.

CAUTION

* Once the load-in-progress message appears on the display the operation cannot be canceled. Never turn off the power or remove the USB flash memory during this operation.

- 7 A message will appear on the display to inform you that the operation has finished.

Press the [EXIT] button to return to the MAIN display.

■ MIDI IMPLEMENTATION CHART

YAMAHA [Portable Grand]
 Model DGX-520 / YPG-525 MIDI Implementation Chart

Date:17-NOV-2005
 Version:1.0

Function...	Transmitted	Recognized	Remarks
Basic Default Channel Changed	1 - 16 x	1 - 16 x	
Mode Default Messages Altered	3 x *****	3 x x	
Note Number : True voice	0 - 127 *****	0 - 127 0 - 127	
Velocity Note ON Note OFF	o 9nH,v=1-127 x 9nH,v=0	o 9nH,v=1-127 x	
After Key's Touch Ch's	x x	x x	
Pitch Bend	o 0-24 semi	o 0-24 semi	
Control Change	0,32 o 1,11,84 x *1 6,38 o 7,10 o 64 o 71 x *1 72 o 73 x *1 74 x *1 91,93 o 96-97 x *1 100-101 o	o o o o o o o o o o o o	Bank Select Data Entry Sustain Harmonic Content Release Time Attack Time Brightness Effect Depth RPN Inc,Dec RPN LSB,MSB
Prog Change : True #	o 0 - 127 *****	o 0 - 127	
System Exclusive	o	o	
: Song Pos. Common : Song Sel. : Tune	x x x	x x x	
System : Clock Real Time: Commands	o o	o o	
Aux :All Sound OFF :Reset All Cntrls :Local ON/OFF :All Notes OFF Mes- :Active Sense sages:Reset	x x x x o x	o(120,126,127) o(121) o(122) o(123-125) o o x	

*1 Refer to MIDI DATA FORMAT.

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

NOTE:

1 By default (factory settings) the instrument ordinarily functions as a 16-channel multi-timbral tone generator, and incoming data does not affect the panel voices or panel settings. However, the MIDI messages listed below do affect the panel voices, auto accompaniment, and songs.

- MIDI Master Tuning
- System exclusive messages for changing the Reverb Type and Chorus Type.

2 Messages for these control change numbers cannot be transmitted from the instrument itself. However, they may be transmitted when playing the accompaniment, song or using the Harmony effect.

3 Exclusive

<GM System ON> F0H, 7EH, 7FH, 09H, 01H, F7H

- This message automatically restores all default settings for the instrument, with the exception of MIDI Master Tuning.

<MIDI Master Volume> F0H, 7FH, 7FH, 04H, 01H, II, mm, F7H

- This message allows the volume of all channels to be changed simultaneously (Universal System Exclusive).
- The values of "mm" is used for MIDI Master Volume. (Values for "II" are ignored.)

<MIDI Master Tuning> F0H, 43H, 1nH, 27H, 30H, 00H, 00H, mm, II, cc, F7H

- This message simultaneously changes the tuning value of all channels.
- The values of "mm" and "II" are used for MIDI Master Tuning.
- The default value of "mm" and "II" are 08H and 00H, respectively. Any values can be used for "n" and "cc".

<Reverb Type> F0H, 43H, 1nH, 4CH, 02H, 01H, 00H, mmH, IIH, F7H

- mm : Reverb Type MSB
 - II : Reverb Type LSB
- Refer to the Effect Map for details.

<Chorus Type> F0H, 43H, 1nH, 4CH, 02H, 01H, 20H, mmH, IIH, F7H

- mm : Chorus Type MSB
 - II : Chorus Type LSB
- Refer to the Effect Map for details.

4 When the accompaniment is started, an FAH message is transmitted. When accompaniment is stopped, an FCH message is transmitted. When the clock is set to External, both FAH (accompaniment start) and FCH (accompaniment stop) are recognized.

5 Local ON/OFF

<Local ON> Bn, 7A, 7F

<Local OFF> Bn, 7A, 00

Value for "n" is ignored.

■ Effect map

*When a Type LSB value is received that corresponds to no effect type, a value corresponding to the effect type (coming the closest to the specified value) is automatically set.

*The numbers in parentheses in front of the Effect Type names correspond to the number indicated in the display.

● REVERB

TYPE MSB	TYPE LSB								
	00	01	02	08	16	17	18	19	20
000	No Effect								
001	(01)Hall1				(02)Hall2	(03)Hall3			
002	Room					(04)Room1		(05)Room2	
003	Stage				(06)Stage1	(07)Stage2			
004	Plate				(08)Plate1	(09)Plate2			
005...127	No Effect								

● CHORUS

TYPE MSB	TYPE LSB								
	00	01	02	08	16	17	18	19	20
000...063	No Effect								
064	Thru								
065	Chorus		(02)Chorus2						
066	Celeste					(01)Chorus1			
067	Flanger			(03)Flanger1		(04)Flanger2			
068...127	No Effect								

PortableGrand

DGX-520/YPG-525

PARTS LIST

■ CONTENTS

OVERALL ASSEMBLY	2
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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

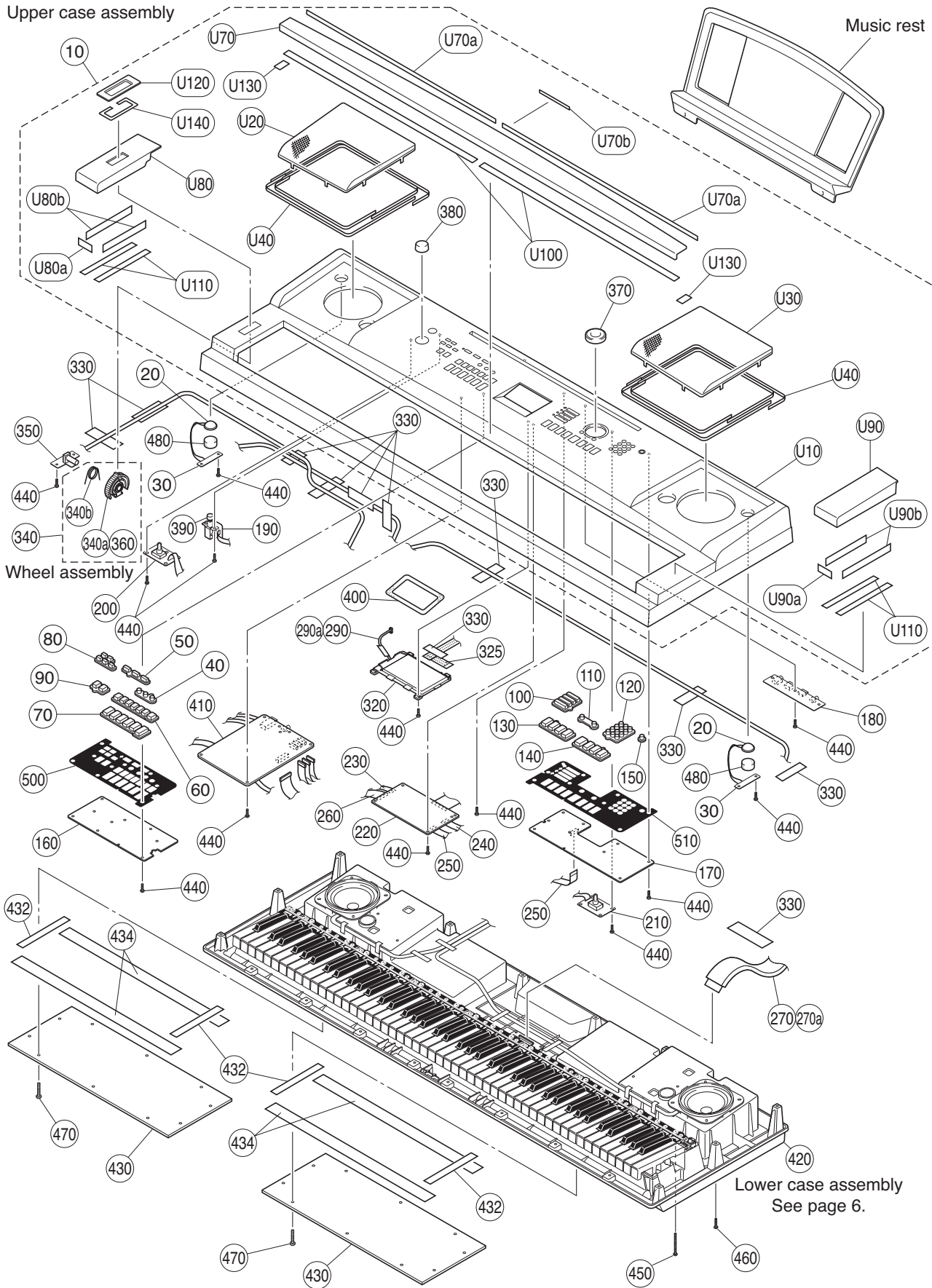
Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.

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

OVERALL ASSEMBLY

Upper case assembly

Music rest



Wheel assembly

Lower case assembly
See page 6.

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY	RANK
	--	OVERALL ASSEMBLY		総 組 立	DGX-520/YPG-525		
	--	Overall Assembly		立	DGX-520 (WF83810)		
	--	Overall Assembly		総 組 立	YPG-525 (WG39910)		
* 10	WF839600	Upper Case Assembly		上 ケー ス A s s ' y	DGX-520		
* 10	WG399000	Upper Case Assembly		上 ケー ス A s s ' y	YPG-525		
* 20	X0159A00	Speaker	3.0cm	ス ピ ー カ	TWEETER	2	01
* 30	WG258900	Circuit Board	TW	T W シ ー ト	(WG25900)(X7135B0)	2	
* 40	WF834800	PN Switch	x3	P N ス イ ッ チ	LESSON L,R,START		
* 50	WF834900	PN Switch	x3	P N ス イ ッ チ	P.A.T.ON/OFF,FUNCTION, MUSIC DATABASE		
* 60	WG287600	PN Switch	x7	P N ス イ ッ チ 印 刷 品	SONG MEMORY		
* 70	WF835100	PN Switch	x6	P N ス イ ッ チ	STYLE,SONG(REPEAT&LEARN, ...,START/STOP)		
* 80	WF835200	PN Switch	x5	P N ス イ ッ チ	MENU,EXECUTE,LYRICS, PIANO ACPM,SCOPE		
* 90	WF835300	PN Switch	x2	P N ス イ ッ チ	METRONOME ON/OFF,TEMPO		
* 100	WG287500	PN Switch	x4	P N ス イ ッ チ 印 刷 品	SONG MELODY VOICE		
* 110	WG287700	PN Switch	x2	P N ス イ ッ チ 印 刷 品	CATEGORY		
* 120	WG287100	PN Switch	x12	P N ス イ ッ チ 印 刷 品	0-9,NO,YES,DELETE,RESET		
* 130	WG287800	PN Switch	x4	P N ス イ ッ チ 印 刷 品	EXIT,REGIST MEMORY,BANK		
* 140	WF835800	PN Switch	x4	P N ス イ ッ チ	PORTABLE GRAND, SPLIT ON/OFF,DUAL ON/OFF, HARMONY ON/OFF		
* 150	WG283500	PN Switch	x1	P N ス イ ッ チ	DEMO		
* 160	WG255000	Circuit Board	PNL	P N L シ ー ト	(WG25520)(X7137B0)		
* 170	WG255100	Circuit Board	PNR	P N R シ ー ト	(WG25520)(X7137B0)		
* 180	WG258400	Circuit Board	DJACK	D J A C K シ ー ト	(WG25900)(X7135B0)		
* 190	WG258600	Circuit Board	PSW	P S W シ ー ト	(WG25900)(X7135B0)		
* 200	WG258700	Circuit Board	MVR	M V R シ ー ト	(WG25900)(X7135B0)		
* 210	WG258800	Circuit Board	ENC	E N C シ ー ト	(WG25900)(X7135B0)		
* 220	WG259100	Circuit Board	DM	D M シ ー ト	(WG25920)(X7136C0)		
* 230	WG317600	Connector Assembly	20624 BNCD-P=1.0-K	カ ー ド 電 線			
* 240	WG317700	Connector Assembly	20624 BNCD-P=1.0-K	カ ー ド 電 線			
* 250	WG317800	Connector Assembly	20624 BNCD-P=1.0-K	カ ー ド 電 線			
* 260	WG317900	Connector Assembly	20624 BNCD-P=1.0-K	カ ー ド 電 線			
* 270	WG318200	Connector Assembly	20624 BNCD-P=1.0-K	カ ー ド 電 線 A s s ' y 1			
* 270a	WG469800	Sponge	10	防 振 ス ポ ン ジ 1 0		2	
* 290	WB092100	Connector Assembly	BL 2P P=2.0	B L 束 線			
* 290a	WB097800	Sponge	SPONGE 1	防 振 ス ポ ン ジ 1		2	
* 320	WG299100	LCD Unit	PT	液 晶 ユ ニ ッ ト			
* 325	WH219700	Sponge		防 振 ス ポ ン ジ			
* 330	VA126100	Adhesive Tape	12X50	粘 着 テ ー プ		12	03
* 330	--	Adhesive Tape	MY7# 12X50	P E T テ ー プ	(WB79380)	12	
* 340	VY793100	Wheel Assembly	PSR730	ホ イ ール A s s ' y			04
* 340a	VY750800	Wheel	PSR730	ホ イ ール	PITCH BEND		03
* 340b	VT440100	Spring	PSR620	ホ イ ール バ ネ			03
* 350	WG258500	Circuit Board	PB	P B シ ー ト	(WG25900)(X7135B0)		
* 360	VE968500	Grease	G-31KA	グ リ ー ス			38
* 370	WG455700	Encoder Knob	BLACK	エ ン コ ー ダ ツ マ ミ	DATA ENTRY		
* 380	VU432400	Knob	PSR78	V ツ マ ミ	MASTER VOLUME		01
* 390	V7151200	Push Knob	BLACK	プ ッ シ ュ ツ マ ミ ク ロ	STANDBY/ON		01
* 400	--	Dust Proof Cloth	PU FOAM	防 塵 フ ォ ー ム	(WD69700)		
* 410	WG258300	Circuit Board	AM	A M シ ー ト	(WG25900)(X7135B0)		
* 420	--	Lower Case Assembly		下 ケー ス A s s ' y	(WF83980)		
* 430	WF837400	Bottom Board		底 板		2	
* 432	--	Cushion	PE 515X35X1	ク ッ シ ョ ン (P E)	(WH22010)	4	
* 434	--	Cushion	PE 118.5X15X1	ク ッ シ ョ ン (P E)	(WH22000)	4	
* 440	WE774300	Bind Head Tapping Screw-B	3.0X8 MFZN2W3	B タ イ ト + B I N D		55	01
* 450	WF491000	Bind Head Tapping Screw-B	3.0X30 MFZN2W3	B タ イ ト + B I N D		8	01
* 460	WE987400	Bind Head Tapping Screw-B	3.0X12 MFZN2W3	B タ イ ト + B I N D		24	01
* 470	WF154100	Bind Head Tapping Screw-B	4.0X16 MFZN2W3	B タ イ ト + B I N D		20	01
* 480	WD365700	Sponge	27	ス ポ ン ジ		2	01
* 500	--	Damper Sheet L		防 振 シ ー ト L	(WG30110)		
* 510	--	Damper Sheet R		防 振 シ ー ト R	(WG30120)		
* U10	WF839600	Upper Case Assembly		上 ケー ス A s s ' y	DGX-520		
* U10	WG399000	Upper Case Assembly		上 ケー ス A s s ' y	YPG-525		
* U10	--	Upper Case		上 ケー ス 塗 装 印 刷 品	DGX-520 (WG33680)		
* U20	WG337100	Speaker Grille L	LEFT	上 ケー ス 塗 装 印 刷 品	YPG-525 (WG33690)		
				S P グ リ ル L 塗 装 品			

* : New part

RANK : Japan only

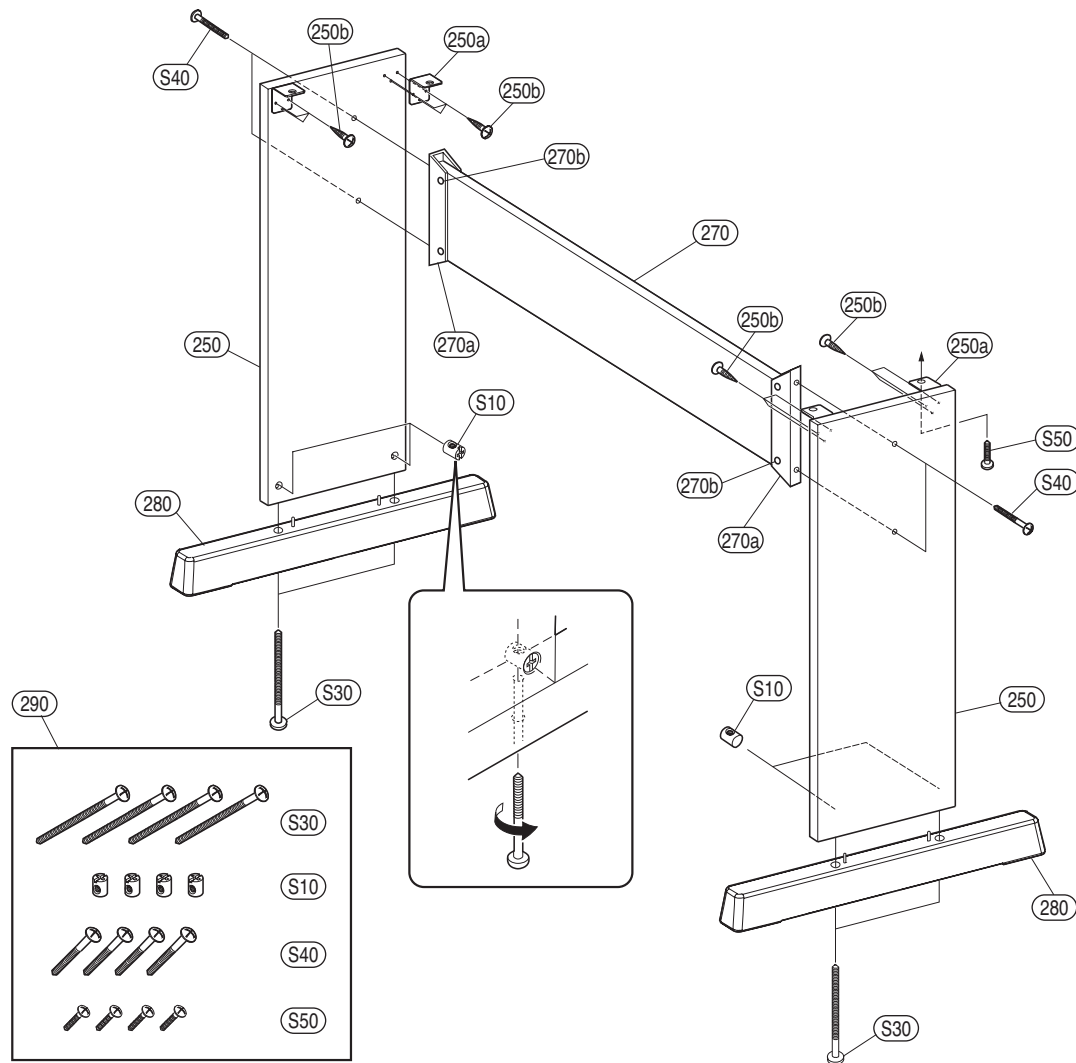
DGX-520/YPG-525

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY	RANK
* U30	WG337200	Speaker Grille R	RIGHT	S P グリル R 塗装品			
U40	--	Nonwoven Fabric Cloth	460X6X0.35	不織布 S P - G R I L	(WH19830)	8	
* U70	WG338600	KB Holder Assembly		鍵盤押さえ A s s ' y			
U70a	--	Nonwoven Fabric Cloth	0.35 BLACK	不織布 F P A N E L	(WG33830)	2	
U70b	--	Edge Sticker		化粧 シ ー ル	(WH18170)		
* U80	WG337600	Key Block L Assembly	LEFT	拍子木 L A s s ' y			
U80a	--	Nonwoven Fabric Cloth	0.35 BLACK	不織布 K E Y . B L	(WG33850)		
U80b	--	Nonwoven Fabric Cloth	0.35 BLACK	不織布 K E Y . B L	(WG33840)	2	
* U90	WG337700	Key Block R Assembly	RIGHT	拍子木 R A s s ' y			
U90a	--	Nonwoven Fabric Cloth	0.35 BLACK	不織布 K E Y . B L	(WG33850)		
U90b	--	Nonwoven Fabric Cloth	0.35 BLACK	不織布 K E Y . B L	(WG33840)	2	
* U100	WG337900	Adhesive Tape	#500 24X580	両面粘着テープ		2	
* U110	WG337800	Adhesive Tape	#500 12X150	両面粘着テープ		4	
U120	--	PB Escutcheon Assembly		P B エスカ A s s ' y	(WG33280)		
U130	--	Edge Cloth	30X10X0.35	エッジクロス	(WH19840)	2	
U140	--	Edge Cloth	56X4X0.35	エッジクロス	(WH21980)		
		ACCESSORIES		付 属 品			
* WH249100		Music Rest		譜 面 立 袋 入			
X7225A00		CD-ROM	DGX ENTRY-H	C D - R O M			
--		Foot Pedal	IN PLASTIC BAG	フットペダル	(VJ07000)		
△ V8029100		AC Adapter	PA-5D U	A C アダプター	U,C	08	
△ V8029300		AC Adapter	PA-5D GBR	A C アダプター	B	09	
△ WF324900		AC Adapter	PA-5D CHN	A C アダプター	O DGX-520 ONLY	08	
△ V8029200		AC Adapter	PA-5D E	A C アダプター	E	08	
* WG396000		Chinese Guide Sheet		中文シート袋入り	O DGX-520 ONLY		
--		Stand Assembly		スタンド A s s ' y			

* : New parts

RANK : Japan only

STAND ASSEMBLY

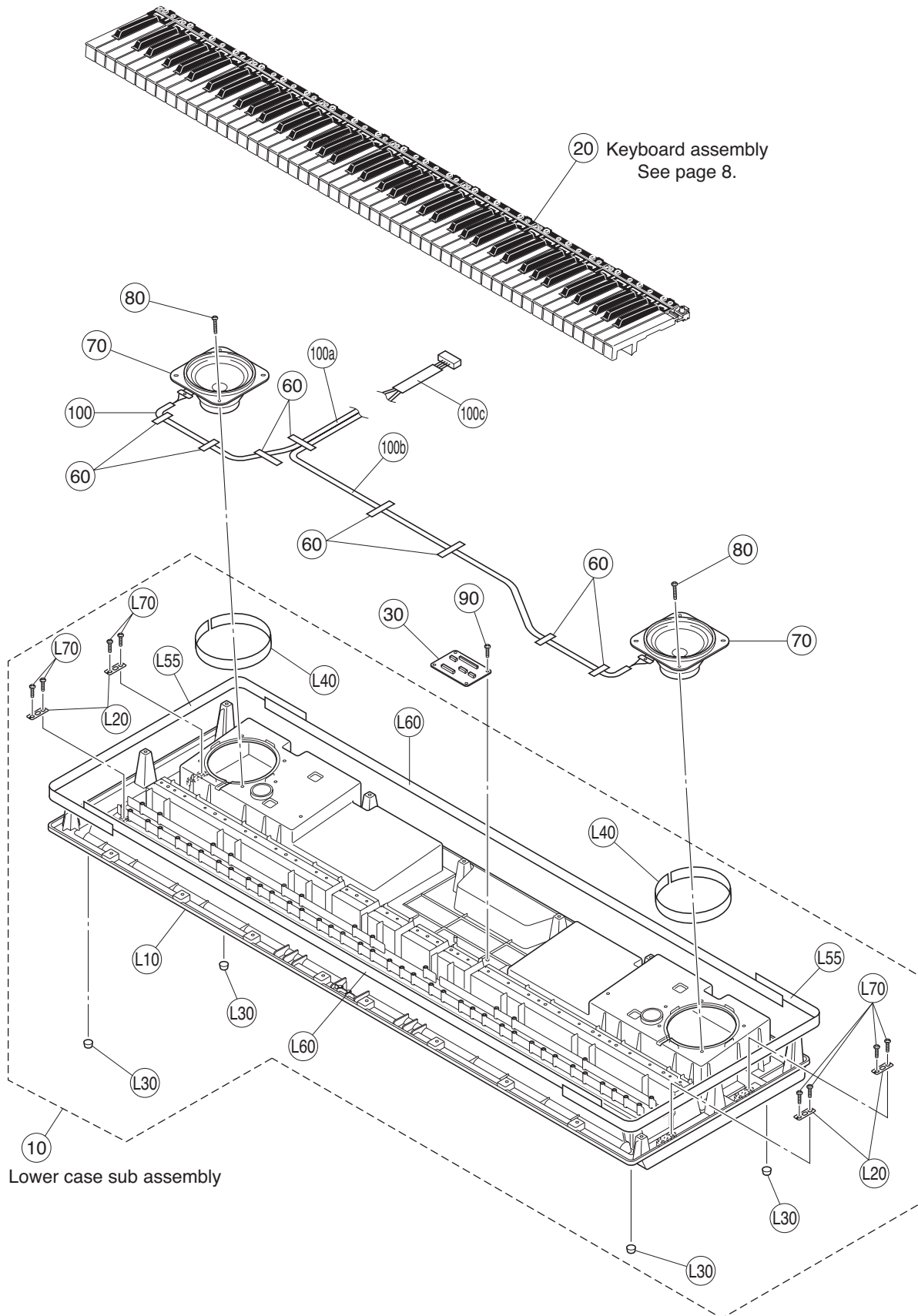


REF. NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	RANK
		STAND ASSEMBLY	スタンド A s s ' y	DGX-520/YPG-525		
	--	Stand Assembly	スタンド A s s ' y			
* 250	WG397400	Side Board Assembly	側板 A s s ' y		2	
250a	V8390100	Angle Bracket, ST	S T . ア ン ゲ ル		2	02
250b	WE970700	Bind Head Tapping Screw-1	T P # 1 + B I N D		6	01
* 270	WG398600	Stand Rail Assembly	框 A s s ' y			
270a	WA694800	Angle Bracket	框 補 強 金 具		2	04
270b	WE970700	Bind Head Tapping Screw-1	T P # 1 + B I N D		8	01
* 280	WG350400	Stand Base	妻 土 台 袋 入		2	
290	WD054400	Screw Set	ネ ジ セ ッ ト			06
	WD054400	Screw Set	ネ ジ セ ッ ト			06
S10	WF559100	Special Nut	ナ ッ ト 特 殊		4	01
S30	WF492300	Truss Head Screw	特 注 ネ ジ + T R U S		4	01
S40	WF052900	Truss Head Screw	特 注 ネ ジ + T R U S		4	01
S50	WF492400	Truss Head Screw	小 ネ ジ + T R U S		4	01

* : New part

RANK : Japan only

LOWER CASE ASSEMBLY

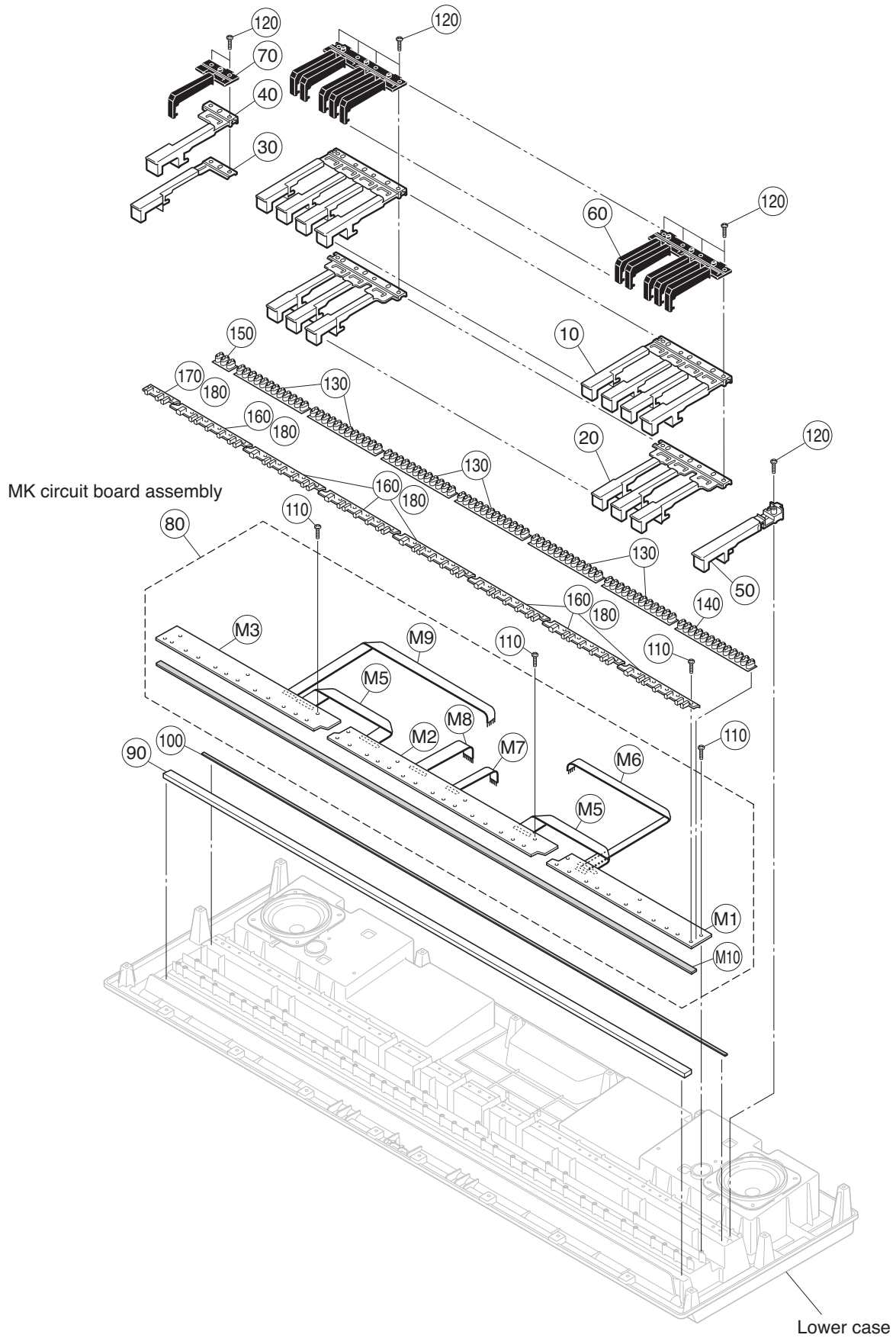


REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	RANK
		LOWER CASE ASSEMBLY		下 ケ ー ス A s s ' y		
	--	Lower Case Assembly		下 ケ ー ス A s s ' y	DGX-520/YPG-525	
* 10	WF839900	Lower Case Sub Assembly		下 ケ ー ス サ ブ A s s ' y	(WF83980)	
20	--	Keyboard Assembly	16N A88 P2M I	1 6 N - A 8 8 鍵 盤	(WG30490)	
* 30	WG200800	Circuit Board	RELAY	R E L A Y シ ー ト	(WG20090)(X7138B0)	
60	VA126100	Adhesive Tape	12X50	粘 着 テ ー プ		8 03
60	--	Adhesive Tape	MY7# 12X50	P E T テ ー プ	(WB79380)	8
* 70	X7430A00	Speaker	12.0cm 4 ohm 10W	ス ピ ー カ	WOOFER	2
80	WE981200	Bind Head Tapping Screw-B	4.0X12 MFZN2W3	B タ イ ト + B I N D		8 01
90	WE774300	Bind Head Tapping Screw-B	3.0X8 MFZN2W3	B タ イ ト + B I N D		4 01
* 100	WG458700	Connector Assembly	SP1	S P 1 束 線 A s s ' y		
100a	--	Sponge	5	防 振 ス ポ ン ジ 5	(WG45990)	2
100b	--	Sponge	6	防 振 ス ポ ン ジ 6	(WG46000)	2
100c	--	Sponge	7	防 振 ス ポ ン ジ 7	(WG46010)	2
* L10	WF839900	Lower Case Sub Assembly		下 ケ ー ス サ ブ A s s ' y		
L20	--	Lower Case		下 ケ ー ス 成 型 品	(WF83430)	
L30	V1104400	Holder		脚 取 り 付 け 金 具 天 津 製		4
L30	CB043750	Foot	T1.6	ゴ ム 脚		5 01
L40	--	Seal Tape	SP 395X8X1	シ ー ル テ ー プ S P	(WG31740)	2
L55	--	Cushion	PE 700X20X1	ク ッ シ ョ ン (P E)	(WH19450)	2
L60	--	Cushion	PE 1200X20X2	ク ッ シ ョ ン (P E)	(WH19440)	2
L70	WE774300	Bind Head Tapping Screw-B	3.0X8 MFZN2W3	B タ イ ト + B I N D		8 01

* : New part

RANK : Japan only

KEYBOARD ASSEMBLY

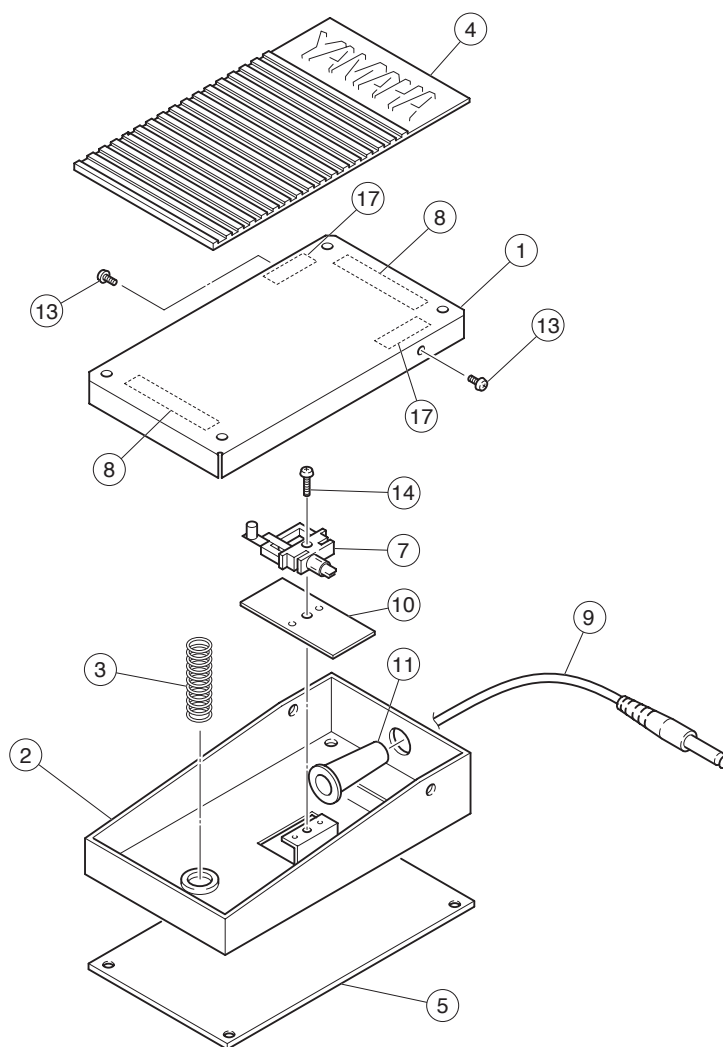


REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	RANK
	--	KEYBOARD ASSEMBLY	1 6 N - A 8 8 鍵盤	DGX-520/YPG-525		
10	V7380300	Keyboard Assembly	1 6 N - A 8 8 鍵盤	(WG30490)	7	02
20	V7380400	White Keys	1 6 N - P C E G B - P		7	02
30	V7380500	White Key	1 6 N - P A			
40	V7380600	White Key	1 6 N - P B			
50	V7380700	White Key	1 6 N - P C			
60	VZ271700	Black Keys	1 6 N		7	06
70	V7380800	Black Key	1 6 N A #			02
80	--	MK Circuit Board Assembly	1 6 N 2 M A 8 8 P 2	(WC53500)		
90	V7638500	Felt White	8 8 L 1 2 1 0 X 1 1 X 3 . 5 T			03
100	WG845600	Cushion Sheet	ク ッ シ ョ ン シ ー ト			
110	WE774200	Bind Head Tapping Screw-B	3 . 0 X 1 0 M F Z N 2 W 3	B タ イ ト + B I N D	40	01
120	WF492000	Bind Head Tapping Screw-P	3 . 0 X 2 0 M F Z N 2 W 3	P タ イ ト + B I N D	31	
130	V3413600	Rubber Contact	1 6 N - 2 M O C T 2 M	接 点 ゴ ム 1 6 N 2 M	6	04
140	V7477400	Rubber Contact	1 6 N - 2 M 1 3 K 2 M	接 点 ゴ ム 1 6 N 2 M		04
150	V7643100	Rubber Contact	1 6 N - 2 M 8 8 L 2 M	接 点 ゴ ム 1 6 N 2 M		04
160	V7380900	Key Guide	1 6 N	キ ー ガ イ ド	7	
170	V7643200	Key Guide 88L	1 6 N	キ ー ガ イ ド 8 8 L		
180	--	Grease	G - 1 0 0 6 Y	グ リ ス		(V627430)
M1	V7639000	MK Circuit Board Assembly	M K 1 6 N 2 M A 8 8 P 2	(WC53500)		
M2	V7639100	Circuit Board	M K - 8 8 H	(V763870)(X0000A0)		08
M3	V7639200	Circuit Board	M K - 8 8 C	(V763880)(X0001A0)		08
M4	V7639200	Circuit Board	M K - 8 8 L	(V763890)(X0002A0)		08
M5	--	Connector Assembly	M K 1 6 N - 2 M - A 8 8	ケ ー ブ ル M K 中 継	2	(V763930)
M6	--	Connector Assembly	8 8 H 1 6 N - 2 M - A 8 8	ケ ー ブ ル 8 8 H		(WC53410)
M7	--	Connector Assembly	8 8 C - B 1 6 N - 2 M - A 8 8	ケ ー ブ ル 8 8 C - B		(WC53450)
M8	--	Connector Assembly	8 8 C - N 1 6 N - 2 M - A 8 8	ケ ー ブ ル 8 8 C - N		(WC53470)
M9	--	Connector Assembly	8 8 L 1 6 N - 2 M - A 8 8	ケ ー ブ ル 8 8 L		(WC53430)
M10	V7638400	Stopper	5 X 3 . 5 T	ス ト ッ パ ー 8 8 U		04

* : New part

RANK : Japan only

■ FOOT PEDAL



REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY	RANK
		FOOT PEDAL		フットペダル	DGX-520/YPG-525		
	--	Foot Pedal	IN PLASTIC BAG	フットペダル	(VJ07000)		
1	AA812880	Upper Pedal Cover		ペダル上蓋	}		05
2	AA812890	Lower Pedal Cover		ペダル底蓋			03
2	--	Lower Pedal Cover	MADE IN CHINA	ペダル底蓋(中国製)		(WG49650)	
3	AA812900	Pedal Spring		ペダルバネ			03
4	CB815140	Upper Cover Mat		上蓋マット			03
5	CB815150	Lower Cover Mat		底蓋マット			05
7	NB037130	Switch Assembly		スイッチアセンブリー	FOOT PEDAL		05
8	--	Felt	BLACK 50X10X1.5	フェルトクロ	(CC01476)	2	
9	MI801120	Cord	1.9m 2P 6.3 PLUG	ケーブル加工品			05
10	CA800450	Fiber Washer		ファイバーワッシャー			01
11	--	Tube	AWG#4 D.2	U.L. C S A チューブ	(CH00219)		
13	WF493200	Special Screw	4.0X10 MFZN2B3	特注ネジ		2	01
14	WE967500	Pan Head Screw	3.0X12 MFZN2W3	小ネジ+PAN			01
16	--	Grease	G-30H	シリコングリス	(0412108)		
17	--	Felt	BLACK 20X10X1.5	フェルトクロ	(CC01479)	2	

* : New parts

RANK : Japan only

■ ELECTRICAL PARTS

REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	RANK
		ELECTRICAL PARTS	電 気 部 品	DGX-520/YPG-525		
*	WG258300	Circuit Board	AM	(WG25900)(X7135B0)		
*	WG258400	Circuit Board	DJACK	(WG25900)(X7135B0)		
*	WG258800	Circuit Board	ENC	(WG25900)(X7135B0)		
*	WG258700	Circuit Board	MVR	(WG25900)(X7135B0)		
*	WG258500	Circuit Board	PB	(WG25900)(X7135B0)		
*	WG258600	Circuit Board	PSW	(WG25900)(X7135B0)		
*	WG258900	Circuit Board	TW	(WG25900)(X7135B0)		
*	WG259100	Circuit Board	DM	(WG25920)(X7136C0)		
*	V7639100	Circuit Board	MK-88C	(V763880)(X0001A0)		08
	V7639000	Circuit Board	MK-88H	(V763870)(X0000A0)		08
	V7639200	Circuit Board	MK-88L	(V763890)(X0002A0)		08
*	WG255000	Circuit Board	PNL	(WG25520)(X7137B0)		
*	WG255100	Circuit Board	PNR	(WG25520)(X7137B0)		
*	WG200800	Circuit Board	RELAY	(WG20090)(X7138B0)		
*	WG258300	Circuit Board	AM	(WG25900)(X7135B0)		
*	WG258400	Circuit Board	DJACK	(WG25900)(X7135B0)		
*	WG258800	Circuit Board	ENC	(WG25900)(X7135B0)		
*	WG258700	Circuit Board	MVR	(WG25900)(X7135B0)		
*	WG258500	Circuit Board	PB	(WG25900)(X7135B0)		
*	WG258600	Circuit Board	PSW	(WG25900)(X7135B0)		
*	WG258900	Circuit Board	TW	(WG25900)(X7135B0)		
	VA078900	Jumper Wire	0.55 TIN	ジャンパー線		20
10	WE774300	Bind ad Tapping Screw-B	3.0X8 MFZN2W3	Bタイト+B I N D		4 01
20	--	Grease	G-746	シリコングリス	(0412125)	
20	--	Grease	X-113A G746	シリコングリス	(VA79810)	
30	--	Nonwoven Fabric Cloth	35X4X0.35	不織布	(V472450)	2
40	--	Nonwoven Fabric Cloth	50X3X0.35	不織布	(WH21960)	2
C101	UA354470	Mylar Capacitor	0.0470 50V J RX TP	マイラ - コン		
C101	UA654470	Mylar Capacitor	0.0470 50V J RX TP	マイラ - コン		01
C102	UA354470	Mylar Capacitor	0.0470 50V J RX TP	マイラ - コン		
C102	UA654470	Mylar Capacitor	0.0470 50V J RX TP	マイラ - コン		01
* C103	V3773100	Electrolytic Cap.	4700.0 25.0V FORM.	ケ ミ コ ン		
* C103	VK373000	Electrolytic Cap.	4700 25.0V TATEJI	ケ ミ コ ン		03
C104	UR867100	Electrolytic Cap.	10.00 50.0V RX TP	ケ ミ コ ン		01
* C104	V3512300	Electrolytic Cap.	10.00 50.0V TP	ケ ミ コ ン		
C105	UR867100	Electrolytic Cap.	10.00 50.0V RX TP	ケ ミ コ ン		01
* C105	V3512300	Electrolytic Cap.	10.00 50.0V TP	ケ ミ コ ン		
C106	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z TATET	半 導 体 セ ラ コ ン		01
C106	VM902400	Semiconductive Cera.Cap.	0.1000 25V Z FORM.	半 導 体 セ ラ コ ン 天 津		01
C107	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z TATET	半 導 体 セ ラ コ ン		01
C107	VM902400	Semiconductive Cera.Cap.	0.1000 25V Z FORM.	半 導 体 セ ラ コ ン 天 津		01
C108	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z TATET	半 導 体 セ ラ コ ン		01
C108	VM902400	Semiconductive Cera.Cap.	0.1000 25V Z FORM.	半 導 体 セ ラ コ ン 天 津		01
C109	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z TATET	半 導 体 セ ラ コ ン		01
C109	VM902400	Semiconductive Cera.Cap.	0.1000 25V Z FORM.	半 導 体 セ ラ コ ン 天 津		01
C110	WF405000	Electrolytic Cap.	100.00 10.0V TATET	ケ ミ コ ン		
* C110	WF448900	Electrolytic Cap.	100.00 10.0V TATET	ケ ミ コ ン		
* C111	WF405000	Electrolytic Cap.	100.00 10.0V TATET	ケ ミ コ ン		
C111	WF448900	Electrolytic Cap.	100.00 10.0V TATET	ケ ミ コ ン		
C201	UA353100	Mylar Capacitor	1000P 50V J RX TP	マイラ - コン		01
C201	UA653100	Mylar Capacitor	1000P 50V J RX TP	マイラ - コン		03
C202	UA353100	Mylar Capacitor	1000P 50V J RX TP	マイラ - コン		01
C202	UA653100	Mylar Capacitor	1000P 50V J RX TP	マイラ - コン		03
C203	V5515200	Mylar Capacitor	0.0680 50V J	マイラ - コン		
C203	VE325800	Monolithic Mylar Capacitor	0.068 50V J RX	積 層 マ イ ラ - コ ン		
C204	V5515200	Mylar Capacitor	0.0680 50V J	マイラ - コン		
C204	VE325800	Monolithic Mylar Capacitor	0.068 50V J RX	積 層 マ イ ラ - コ ン		
C205	UA352470	Mylar Capacitor	470P 50V J RX TP	マイラ - コン		01
C205	UA652470	Mylar Capacitor	470P 50V J RX TP	マイラ - コン		01
C206	UA352470	Mylar Capacitor	470P 50V J RX TP	マイラ - コン		01
C206	UA652470	Mylar Capacitor	470P 50V J RX TP	マイラ - コン		01
C207	UR838100	Electrolytic Cap.	100.00 16.0V RX TP	ケ ミ コ ン		01
C207	V3508500	Electrolytic Cap.	100.00 16.0V TP	ケ ミ コ ン		
C208	UR866100	Electrolytic Cap.	1.00 50.0V RX TP	ケ ミ コ ン		
C208	V3511900	Electrolytic Cap.	1.00 50.0V TP	ケ ミ コ ン		
C209	UR867100	Electrolytic Cap.	10.00 50.0V RX TP	ケ ミ コ ン		01
* C209	V3512300	Electrolytic Cap.	10.00 50.0V TP	ケ ミ コ ン		
C210	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z TATET	半 導 体 セ ラ コ ン		01

* : New part

RANK : Japan only

REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	RANK
C210	VM902400	Semiconductive Cera.Cap.	0.1000 25V Z FORM.	半 導 体 セ ラ コ ン 天 津		01
C211	UR867100	Electrolytic Cap.	10.00 50.0V RX TP	ケ ミ コ ン		01
* C211	V3512300	Electrolytic Cap.	10.00 50.0V TP	ケ ミ コ ン		
C212	UA355100	Mylar Capacitor	0.1000 50V J RX TP	マ イ ラ - コ ン		01
* C212	V5515400	Mylar Capacitor	0.1000 50V J	マ イ ラ - コ ン		
C212	VR168300	Monolithic Mylar Capacitor	ECQ-V1H104JL3	積 層 マ イ ラ - コ ン		01
C213	UA355100	Mylar Capacitor	0.1000 50V J RX TP	マ イ ラ - コ ン		01
* C213	V5515400	Mylar Capacitor	0.1000 50V J	マ イ ラ - コ ン		
C213	VR168300	Monolithic Mylar Capacitor	ECQ-V1H104JL3	積 層 マ イ ラ - コ ン		01
C214	UA355100	Mylar Capacitor	0.1000 50V J RX TP	マ イ ラ - コ ン		01
* C214	V5515400	Mylar Capacitor	0.1000 50V J	マ イ ラ - コ ン		
C214	VR168300	Monolithic Mylar Capacitor	ECQ-V1H104JL3	積 層 マ イ ラ - コ ン		01
C215	UA355100	Mylar Capacitor	0.1000 50V J RX TP	マ イ ラ - コ ン		01
* C215	V5515400	Mylar Capacitor	0.1000 50V J	マ イ ラ - コ ン		
C215	VR168300	Monolithic Mylar Capacitor	ECQ-V1H104JL3	積 層 マ イ ラ - コ ン		01
C216	UR837330	Electrolytic Cap.	33.00 16.0V RX TP	ケ ミ コ ン		01
* C216	V3508300	Electrolytic Cap.	33.00 16.0V TP	ケ ミ コ ン		
C217	UR837330	Electrolytic Cap.	33.00 16.0V RX TP	ケ ミ コ ン		01
* C217	V3508300	Electrolytic Cap.	33.00 16.0V TP	ケ ミ コ ン		
CN101	VK024800	Wire Trap	52147 4P TE	ワ イ ヤ - ト ラ ッ プ		01
CN102	VK024600	Wire Trap	52147 2P TE	ワ イ ヤ - ト ラ ッ プ		01
CN103	VK024700	Wire Trap	52147 3P TE	ワ イ ヤ - ト ラ ッ プ		01
CN104	WD369900	FFC Connector	52806-1910 19PIN	F F C コ ネ ク タ		01
CN201	VI878000	Cable Holder	51048 2P TE	ケ - ブ ル ホ ル ダ -		01
CN201	VY668300	Cable Holder	51048 2P TE	ケ - ブ ル ホ ル ダ - 天 津		
CN202	VI878000	Cable Holder	51048 2P TE	ケ - ブ ル ホ ル ダ -		01
CN202	VY668300	Cable Holder	51048 2P TE	ケ - ブ ル ホ ル ダ - 天 津		
CN203	LB918040	Base Post Connector	XH 4P TE	ベ - ス ツ キ ポ ス ト		01
CN204	VK024900	Wire Trap	52147 5P TE	ワ イ ヤ - ト ラ ッ プ		01
CN301	VV678400	Connector , FFC	52806 14P TE	F F C コ ネ ク タ -		01
CN401	VI878100	Cable Holder	51048 3P TE	ケ - ブ ル ホ ル ダ -		01
CN401	VZ341600	Cable Holder	51048 3P TE	ケ - ブ ル ホ ル ダ - 天 津		
CN501	VI878200	Cable Holder	51048 4P TE	ケ - ブ ル ホ ル ダ -		01
* CN501	VY668400	Cable Holder	51048 4P TE	ケ - ブ ル ホ ル ダ - 天 津		
CN601	VI878300	Cable Holder	51048 5P TE	ケ - ブ ル ホ ル ダ -		01
CN601	VZ341700	Cable Holder	51048 5P TE	ケ - ブ ル ホ ル ダ - 天 津		
CN901	VI878100	Cable Holder	51048 3P TE	ケ - ブ ル ホ ル ダ -		01
CN901	VZ341600	Cable Holder	51048 3P TE	ケ - ブ ル ホ ル ダ - 天 津		
D101	V8603100	Diode	2A02G-01 X0 JI	ダ イ オ - ド		
D101	VV731400	Diode	2A02M FORMING	ダ イ オ - ド		01
△ EC901	VU481300	Encoder	REB161 PVB 15F	1 6 形 エ ン コ - ダ	DATA ENTRY	03
△ FZ001	WD158000	Fuse	TSD 4A 250V (P)	ヒ ュ - ズ		01
△ HS001	--	Heat Sink		放 熱 板	(WG29940)	
IC101	X5887A00	IC	BA50BC0T	C	REGULATOR +5V 1.0A	03
IC102	X5887A00	IC	BA50BC0T	C	REGULATOR +5V 1.0A	03
△ IC201	XY209A00	IC	LA4625	C	POWER AMP 13.5W	05
△ JK101	LB302260	Connector	HEC0470-01-630	電 源 コ ネ ク タ	DC IN 12V	02
△ JK101	V6557600	Connector	HTJ-020-05AZ	電 源 コ ネ ク タ		04
JK201	LB101870	Phone Jack	JACK YKB21-5006	ホ - ン コ ネ ク タ	PHONES/OUTPUT	03
JK201	VV943300	Phone Jack	HTJ064-04A	ホ - ン コ ネ ク タ		02
JK301	VC687500	Phone Jack	JACK YKB21-5014	ホ - ン コ ネ ク タ (黒)	SUSTAIN	01
JK301	WE245200	Phone Jack	JY-6314-01-020	ホ - ン コ ネ ク タ (黒)		
JK302	V6802600	Jack, USB	USB 4P SE	U S B ジ ャ ッ ク	USB TO HOST	02
JK302	WB106700	Jack	USB 4P TE	U S B ジ ャ ッ ク		
JK303	WA245700	USB Connector	YKF45 4P SE	U S B コ ネ ク タ	USB TO DEVICE	02
△ L101	V6795600	Line Filter	BDL40-01	ラ イ ン フ ィ ル タ -		
△ L101	VQ884000	Line Filter	CM08RB01 RX	ラ イ ン フ ィ ル タ -		03
L102	VB835000	Coil	FL05RD200AT TATETE	コ イ ル 2 0 U		01
L102	VT279200	Coil	DX001-20UH TATEJI	コ イ ル 2 0 U 天 津		
L201	VB835000	Coil	FL05RD200AT TATETE	コ イ ル 2 0 U		01
L201	VT279200	Coil	DX001-20UH TATEJI	コ イ ル 2 0 U 天 津		
L202	VB835000	Coil	FL05RD200AT TATETE	コ イ ル 2 0 U		01
L202	VT279200	Coil	DX001-20UH TATEJI	コ イ ル 2 0 U 天 津		
L301	VB835000	Coil	FL05RD200AT TATETE	コ イ ル 2 0 U		01
L301	VT279200	Coil	DX001-20UH TATEJI	コ イ ル 2 0 U 天 津		
L302	VB835000	Coil	FL05RD200AT TATETE	コ イ ル 2 0 U		01
L302	VT279200	Coil	DX001-20UH TATEJI	コ イ ル 2 0 U 天 津		
L303	VB835000	Coil	FL05RD200AT TATETE	コ イ ル 2 0 U		01
L303	VT279200	Coil	DX001-20UH TATEJI	コ イ ル 2 0 U 天 津		
L304	VB835000	Coil	FL05RD200AT TATETE	コ イ ル 2 0 U		01

* : New parts

RANK : Japan only

REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	RANK
L304	VT279200	Coil	DX001-20UH TATEJI	コイル 20U 天津		01
L305	VB835000	Coil	FL05RD200AT TATEJE	コイル 20U		
L305	VT279200	Coil	DX001-20UH TATEJI	コイル 20U 天津		
L306	VB835000	Coil	FL05RD200AT TATEJE	コイル 20U		
L306	VT279200	Coil	DX001-20UH TATEJI	コイル 20U 天津		
R101	V2548000	Carbon Resistor	100.0 1/6J 26TP	カーボン抵抗		
-104	V2548000	Carbon Resistor	100.0 1/6J 26TP	カーボン抵抗		
R201	V2550000	Carbon Resistor	4.7K 1/6J 26TP	カーボン抵抗		
R202	V2550000	Carbon Resistor	4.7K 1/6J 26TP	カーボン抵抗		
R203	V2549900	Carbon Resistor	3.9K 1/6 J 26TP	カーボン抵抗		
R204	V2549900	Carbon Resistor	3.9K 1/6 J 26TP	カーボン抵抗		
R205	V2550900	Carbon Resistor	27.0K 1/6J 26TP	カーボン抵抗		
R206	WD556700	Flame Proof C. Resistor	2.2 1/4 J TE-26	不燃化カーボン抵抗		
-209	WD556700	Flame Proof C. Resistor	2.2 1/4 J TE-26	不燃化カーボン抵抗		01
R210	V2547800	Carbon Resistor	68.0 1/6J 26TP	カーボン抵抗		
R211	V2547800	Carbon Resistor	68.0 1/6J 26TP	カーボン抵抗		
R212	V2548600	Carbon Resistor	330.0 1/6J 26TP	カーボン抵抗		
R213	V2548600	Carbon Resistor	330.0 1/6J 26TP	カーボン抵抗		
R301	V2549500	Carbon Resistor	1.8K 1/6 J 26TP	カーボン抵抗		
R302	V2551000	Carbon Resistor	33.0K 1/6J 26TP	カーボン抵抗		
R303	V2550000	Carbon Resistor	4.7K 1/6 J 26TP	カーボン抵抗		
SW501	V9661700	Push Switch	SY16-32-4(U99S2)/T	プッシュスイッチ		
SW501	VY980400	Push Switch	SDDLBI5700 J,UC,CE	プッシュスイッチ	STANDBY/ON	03
TR301	WH336700	Transistor	2SC2062STP 10000T	トランジスタ		
TR301	WH376600	Transistor	2SC982TM 5000 TAPE	トランジスタ		
VR301	VV049100	Rotary Variable Resistor	B10K RK09K1110	ロータリーVR	CONTRAST	01
VR401	VZ486300	Rotary Variable Resistor	B10K EVJ05DF20B14	ロータリーVR	PITCH BEND	03
VR601	WC709800	Rotary Variable Resistor	A 5.0K XV014111YG	二連ロータリーVR	MASTER VOLUME	02
WH201	--	Connector Assembly	TWL 2P	T W L 束線	(WG46040)	
WH202	--	Connector Assembly	TWR 2P	T W R 束線	(WG46050)	
WH401	--	Connector Assembly	PB 3P	P B 束線	(WG46060)	
WH501	--	PSW Wire	PSW 4P	P S W 線材	(WG45930)	
WH601	--	0Connector Assembly	MVR 5P	M V R 束線	(WG46070)	
WH901	--	0Connector Assembly	ENC 3P P=2.0 L=60	E N C 束線	(WB09270)	
	WG259100	Circuit Board	DM	D M シート	(WG25920)(X7136C0)	
C01	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
-47	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
C101	US062220	Ceramic Capacitor-SL(chip)	220P 50V J RECT.	チップセラ(SL)		01
C102	US063470	Ceramic Capacitor-B (chip)	4700P 50V K RECT.	チップセラ(B)		01
C103	UF038100	Electrolytic Cap. (chip)	100 16V	チップケミコン		01
C104	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
C105	US061220	Ceramic Capacitor-CH(chip)	22P 50V J RECT.	チップセラ(CH)		01
C106	US061220	Ceramic Capacitor-CH(chip)	22P 50V J RECT.	チップセラ(CH)		01
C107	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
C108	US062100	Ceramic Capacitor-SL(chip)	100P 50V J RECT.	チップセラ(SL)		01
C109	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
-119	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
C201	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
-208	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
C209	UF037100	Electrolytic Cap. (chip)	10 16V	チップケミコン		01
C210	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
C211	UF158100	Electrolytic Cap. (chip)	100 35V UUR1V1	チップケミコン		01
C211	WB291100	Electrolytic Cap. (chip)	35V EEE1VA101UP	チップケミコン		01
C212	US062390	Ceramic Capacitor-SL(chip)	390P 50V J RECT.	チップセラ(SL)		01
C213	UF038100	Electrolytic Cap. (chip)	100 16V	チップケミコン		01
C214	US062100	Ceramic Capacitor-SL(chip)	100P 50V J RECT.	チップセラ(SL)		01
-223	US062100	Ceramic Capacitor-SL(chip)	100P 50V J RECT.	チップセラ(SL)		01
C301	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
-303	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
C304	US061270	Ceramic Capacitor-CH(chip)	27P 50V J RECT.	チップセラ(CH)		01
C305	US061220	Ceramic Capacitor-CH(chip)	22P 50V J RECT.	チップセラ(CH)		01
C306	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
C307	UF038100	Electrolytic Cap. (chip)	100 16V	チップケミコン		01
C308	UF037100	Electrolytic Cap. (chip)	10 16V	チップケミコン		01
C309	US063100	Ceramic Capacitor-B (chip)	1000P 50V K RECT.	チップセラ(B)		01
C310	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
C401	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01
C402	UF037100	Electrolytic Cap. (chip)	10 16V	チップケミコン		01
C403	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チップセラ(F)		01

* : New part

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REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY	RANK
C404	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K RECT.	チ ッ プ セ ラ (B)			01
C405	US063270	Ceramic Capacitor-B (chip)	2700P 50V K RECT.	チ ッ プ セ ラ (B)			01
C406	US063270	Ceramic Capacitor-B (chip)	2700P 50V K RECT.	チ ッ プ セ ラ (B)			01
C407	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K RECT.	チ ッ プ セ ラ (B)			01
C408	US063270	Ceramic Capacitor-B (chip)	2700P 50V K RECT.	チ ッ プ セ ラ (B)			01
C409	US063270	Ceramic Capacitor-B (chip)	2700P 50V K RECT.	チ ッ プ セ ラ (B)			01
C410	UF037100	Electrolytic Cap. (chip)	10 16V	チ ッ プ ケ ミ コ ン			01
C411	UF066100	Electrolytic Cap. (chip)	1 50V	チ ッ プ ケ ミ コ ン			01
C412	UF066100	Electrolytic Cap. (chip)	1 50V	チ ッ プ ケ ミ コ ン			01
C413	US062100	Ceramic Capacitor-SL(chip)	100P 50V J RECT.	チ ッ プ セ ラ (S L)			01
C414	US062100	Ceramic Capacitor-SL(chip)	100P 50V J RECT.	チ ッ プ セ ラ (S L)			01
C501	UF037100	Electrolytic Cap. (chip)	10 16V	チ ッ プ ケ ミ コ ン			01
C502	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チ ッ プ セ ラ (F)			01
C503	US063100	Ceramic Capacitor-B (chip)	1000P 50V K RECT.	チ ッ プ セ ラ (B)			01
C601	US061470	Ceramic Capacitor-CH(chip)	47P 50V J RECT.	チ ッ プ セ ラ (C H)			01
-614	US061470	Ceramic Capacitor-CH(chip)	47P 50V J RECT.	チ ッ プ セ ラ (C H)			01
C615	US062100	Ceramic Capacitor-SL(chip)	100P 50V J RECT.	チ ッ プ セ ラ (S L)			01
C616	US062100	Ceramic Capacitor-SL(chip)	100P 50V J RECT.	チ ッ プ セ ラ (S L)			01
C701	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チ ッ プ セ ラ (F)			01
C702	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チ ッ プ セ ラ (F)			01
C703	US062100	Ceramic Capacitor-SL(chip)	100P 50V J RECT.	チ ッ プ セ ラ (S L)			01
-729	US062100	Ceramic Capacitor-SL(chip)	100P 50V J RECT.	チ ッ プ セ ラ (S L)			01
C801	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チ ッ プ セ ラ (F)			01
-807	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チ ッ プ セ ラ (F)			01
C808	UF037100	Electrolytic Cap. (chip)	10 16V	チ ッ プ ケ ミ コ ン			01
C809	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チ ッ プ セ ラ (F)			01
C901	UF038100	Electrolytic Cap. (chip)	100 16V	チ ッ プ ケ ミ コ ン			01
C902	UF038100	Electrolytic Cap. (chip)	100 16V	チ ッ プ ケ ミ コ ン			01
C903	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チ ッ プ セ ラ (F)			01
-908	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z RECT.	チ ッ プ セ ラ (F)			01
C909	US062100	Ceramic Capacitor-SL(chip)	100P 50V J RECT.	チ ッ プ セ ラ (S L)			01
CN201	WA625700	Connector, FFC	52793 14P SE	F F C コ ネ ク タ ー			
* CN201	WF377500	Connector, FPC	YSF5 14P SE	F P C コ ネ ク タ ー			
CN301	WA625700	Connector, FFC	52793 14P SE	F F C コ ネ ク タ ー			
* CN301	WF377500	Connector, FPC	YSF5 14P SE	F P C コ ネ ク タ ー			
* CN601	WD295300	Connector, FFC	52793 12P SE	F F C コ ネ ク タ ー			
* CN601	WG951300	Connector, FPC	YSF5 12P SE	F P C コ ネ ク タ ー			
* CN602	WD295400	Connector, FFC	52793 15P SE	F F C コ ネ ク タ ー			
* CN602	WG951500	Connector, FPC	YSF5 15P SE	F P C コ ネ ク タ ー			
* CN701	WG468500	Connector, FFC	52852 27P SE	F F C コ ネ ク タ ー			
* CN901	WD295500	Connector, FFC	52793 19P SE	F F C コ ネ ク タ ー			
* CN901	WG951700	Connector, FPC	YSF5 19P SE	F P C コ ネ ク タ ー			
CR701	WA782100	Ceramic Resonator	5.000M	セラミック振動子			
D201	V2376600	Diode	RB500V-40 TAPING	ダイオード			01
DA301	V9424900	Diode Array	TE85L	ダイオードアレイ			01
* DA301	WH107100	Diode Array	MA3Z79300L 0.10 X2	ダイオードアレイ			
DA302	V9424900	Diode Array	TE85L	ダイオードアレイ			01
* DA302	WH107100	Diode Array	MA3Z79300L 0.10 X2	ダイオードアレイ			
DA303	V9424900	Diode Array	TE85L	ダイオードアレイ			01
* DA303	WH107100	Diode Array	MA3Z79300L 0.10 X2	ダイオードアレイ			
DA304	V9424900	Diode Array	TE85L	ダイオードアレイ			01
* DA304	WH107100	Diode Array	MA3Z79300L 0.10 X2	ダイオードアレイ			
IC101	X6055A00	IC	YMW767-VTZ	I	C CPU+XG		10
IC102	X4374A00	IC	S-80136ANMC-JCVT2G	I	C	} RESET	
IC102	X5888A00	IC	BD45365G	I	C		
IC103	X0158A00	IC	SN74AHCT1G08DCKR	I	C	} AND	01
* IC103	X7542A00	IC	74V1T08CTR	I	C		
IC104	X0158A00	IC	SN74AHCT1G08DCKR	I	C	} AND	01
* IC104	X7542A00	IC	74V1T08CTR	I	C		
IC201	X5422A00	IC	S1D13700F01A100	I	C	LCD CONTROLLER	08
* IC202	X7371A00	IC	MC34063EBD-TR	I	C	DC-DC CONVERTER	
IC301	X5879A00	IC	ISP1161A1BD_118-PB	I	C	USB CONTROLLER	09
* IC302	X7414A00	IC	R5520H001A-T1-F	I	C	USB HIGH SIDE SWITCH	
IC401	X6040A00	IC	AK4385ET	I	C	D/A CONVERTER	03
IC402	X2331A00	IC	NJM4580E(TE2)OPAMP	I	C	OPAMP	01
IC501	X6905A00	IC	ADC084S021CIMM	I	C	AD CONVERTER	
IC701	XZ560100	IC	UPD789022GB-A15-8E	I	C	CPU	04
* IC802	X7255100	IC	MR27T12800L-098TNO	I	C	P2ROM 128M(PROG,WAVE)	
IC803	X3485B00	IC	MBM29LV800BE-70PFT	I	C		05
IC803	X4025C00	IC	MX29LV800BBTC-70G	I	C	FLASH ROM 8M	05

* : New parts

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REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	RANK
IC803	X4025D00	IC	MX29LV800CBTC-70G	DRAM 16M		05
IC803	X7234A00	IC	S29AL008D70TFI020H			
IC804	X3860A00	IC	MSM51V18165F-60T3K			
IC804	X4027A00	IC	MSM51V18165F-50T3K			
IC804	X4028A00	IC	GLT4160L16P-45TC			
IC805	X5647A00	IC	SN74LV32APWR			01
IC901	X3679A00	IC	RH5RZ25CA-T1-F			03
IC902	X5889A00	IC	BA33BC0FP			03
L101	VY657200	Chip Inductance	600 BK1608HM601-T	チップインダクタ		01
L201	WF765300	Chip Inductance	150U SLF7045T-151M	チップインダクタ		01
L901	VY657200	Chip Inductance	600 BK1608HM601-T	チップインダクタ		01
R101	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チップ抵抗		01
R102	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チップ抵抗		01
R103	RD357100	Carbon Resistor (chip)	10.0K 63M J RECT.	チップ抵抗		01
R104	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チップ抵抗		01
R105	RD356100	Carbon Resistor (chip)	1.0K 63M J RECT.	チップ抵抗		01
R106	RD355470	Carbon Resistor (chip)	470.0 63M J RECT.	チップ抵抗		01
R107	RD359100	Carbon Resistor (chip)	1.0M 63M J RECT.	チップ抵抗		01
R108	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チップ抵抗		01
R109	RD355100	Carbon Resistor (chip)	100.0 63M J RECT.	チップ抵抗		01
R110	RD355100	Carbon Resistor (chip)	100.0 63M J RECT.	チップ抵抗		01
R111	RD350000	Carbon Resistor (chip)	0 63M J RECT.	チップ抵抗		01
R112	RD350000	Carbon Resistor (chip)	0 63M J RECT.	チップ抵抗		01
R113	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チップ抵抗		01
R114	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チップ抵抗		01
R115	RD355100	Carbon Resistor (chip)	100.0 63M J RECT.	チップ抵抗		01
R116	RD355100	Carbon Resistor (chip)	100.0 63M J RECT.	チップ抵抗		01
R201	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チップ抵抗		01
R202	RD350000	Carbon Resistor (chip)	0 63M J RECT.	チップ抵抗		01
R203	RD350000	Carbon Resistor (chip)	0 63M J RECT.	チップ抵抗		01
R204	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チップ抵抗		01
-206	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チップ抵抗		01
R207	RD355220	Carbon Resistor (chip)	220.0 63M J RECT.	チップ抵抗		01
R208	RF457220	Carbon Resistor (chip)	22.0K D RECT.	チップ抵抗		01
R209	RF456100	Carbon Resistor (chip)	1.0K D RECT.	チップ抵抗		01
R210	RD355100	Carbon Resistor (chip)	100.0 63M J RECT.	チップ抵抗		01
R301	RD357100	Carbon Resistor (chip)	10.0K 63M J RECT.	チップ抵抗		01
-303	RD357100	Carbon Resistor (chip)	10.0K 63M J RECT.	チップ抵抗		01
R305	RD357100	Carbon Resistor (chip)	10.0K 63M J RECT.	チップ抵抗		01
R306	RD357100	Carbon Resistor (chip)	10.0K 63M J RECT.	チップ抵抗		01
R307	RD359100	Carbon Resistor (chip)	1.0M 63M J RECT.	チップ抵抗		01
R308	RD355680	Carbon Resistor (chip)	680.0 63M J RECT.	チップ抵抗		01
R309	RD359100	Carbon Resistor (chip)	1.0M 63M J RECT.	チップ抵抗		01
R310	RD357220	Carbon Resistor (chip)	22.0K 63M J RECT.	チップ抵抗		01
R311	RD357100	Carbon Resistor (chip)	10.0K 63M J RECT.	チップ抵抗		01
R312	RD354220	Carbon Resistor (chip)	22.0 63M J RECT.	チップ抵抗		01
-315	RD354220	Carbon Resistor (chip)	22.0 63M J RECT.	チップ抵抗		01
R316	RD356100	Carbon Resistor (chip)	1.0K 63M J RECT.	チップ抵抗		01
R317	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チップ抵抗		01
R401	RD356470	Carbon Resistor (chip)	4.7K 63M J RECT.	チップ抵抗		01
R402	RD356470	Carbon Resistor (chip)	4.7K 63M J RECT.	チップ抵抗		01
R403	RD356220	Carbon Resistor (chip)	2.2K 63M J RECT.	チップ抵抗		01
R404	RD356470	Carbon Resistor (chip)	4.7K 63M J RECT.	チップ抵抗		01
R405	RD356470	Carbon Resistor (chip)	4.7K 63M J RECT.	チップ抵抗		01
R406	RD356220	Carbon Resistor (chip)	2.2K 63M J RECT.	チップ抵抗		01
R407	RD356220	Carbon Resistor (chip)	2.2K 63M J RECT.	チップ抵抗		01
R408	RD355180	Carbon Resistor (chip)	180.0 63M J RECT.	チップ抵抗		01
R409	RD355180	Carbon Resistor (chip)	180.0 63M J RECT.	チップ抵抗		01
R410	RD356220	Carbon Resistor (chip)	2.2K 63M J RECT.	チップ抵抗		01
R411	RD355180	Carbon Resistor (chip)	180.0 63M J RECT.	チップ抵抗		01
R412	RD355180	Carbon Resistor (chip)	180.0 63M J RECT.	チップ抵抗		01
R413	RD355100	Carbon Resistor (chip)	100.0 63M J RECT.	チップ抵抗		01
R414	RD355100	Carbon Resistor (chip)	100.0 63M J RECT.	チップ抵抗		01
R415	RD356120	Carbon Resistor (chip)	1.2K 63M J RECT.	チップ抵抗		01
R416	RD356150	Carbon Resistor (chip)	1.5K 63M J RECT.	チップ抵抗		01
R501	RD356100	Carbon Resistor (chip)	1.0K 63M J RECT.	チップ抵抗		01
R502	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チップ抵抗		01
R601	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チップ抵抗		01
R602	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チップ抵抗		01
R603	RD356100	Carbon Resistor (chip)	1.0K 63M J RECT.	チップ抵抗		01

* : New part

RANK : Japan only

REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	RANK
R604	RD356100	Carbon Resistor (chip)	1.0K 63M J RECT.	チ ッ プ 抵 抗		01
R701	RD355100	Carbon Resistor (chip)	100.0 63M J RECT.	チ ッ プ 抵 抗		01
-703	RD355100	Carbon Resistor (chip)	100.0 63M J RECT.	チ ッ プ 抵 抗		01
R704	RD353470	Carbon Resistor (chip)	4.7 63M J RECT.	チ ッ プ 抵 抗		01
R801	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チ ッ プ 抵 抗		01
-803	RD357470	Carbon Resistor (chip)	47.0K 63M J RECT.	チ ッ プ 抵 抗		01
RA201	RE045100	Resistor Array	100X4	抵 抗 ア レ イ		01
RA202	RE045100	Resistor Array	100X4	抵 抗 ア レ イ		01
RA601	RE048100	Resistor Array	100KX4	抵 抗 ア レ イ		01
RA602	RE048100	Resistor Array	100KX4	抵 抗 ア レ イ		01
RA603	RE046100	Resistor Array	1KX4	抵 抗 ア レ イ		01
RA604	RE046100	Resistor Array	1KX4	抵 抗 ア レ イ		01
RA701	RE045100	Resistor Array	100X4	抵 抗 ア レ イ		01
-703	RE045100	Resistor Array	100X4	抵 抗 ア レ イ		01
RA704	RE047220	Resistor Array	22KX4	抵 抗 ア レ イ		01
-706	RE047220	Resistor Array	22KX4	抵 抗 ア レ イ		01
RA707	RE046100	Resistor Array	1KX4	抵 抗 ア レ イ		01
-709	RE046100	Resistor Array	1KX4	抵 抗 ア レ イ		01
TA601	WB123200	Transistor Array	IMB10A T110	ト ラ ン ジ ス タ ア レ イ		05
-604	WB123200	Transistor Array	IMB10A T110	ト ラ ン ジ ス タ ア レ イ		05
TR601	VY677600	Digital Transistor	DTC123JKA TP	デ ジ タ ル ト ラ ン ジ ス タ		01
X101	WE194400	Quartz Crystal Unit	16.9344M HC-49S-SM	水 晶 振 動 子		01
X301	WG138100	Quartz Crystal Unit	6.0000M HC-49S-SMD	水 晶 振 動 子		
	V7639100	Circuit Board	MK-88C	シ ー ト 8 8 C	(V763880)(X0001A0)	08
2	VB941200	Diode	1SS133,1SS176 TE	ダ イ オ ー ド	C#2-C5	72
3	VK025600	Wire Trap	52147 12P TE	ワ イ ヤ ー ト ラ ッ プ		3
4	VF728300	Wire Trap	52147 6P TE	ワ イ ヤ ー ト ラ ッ プ		01
	V7639000	Circuit Board	MK-88H	シ ー ト 8 8 H	(V763870)(X0000A0)	08
2	VB941200	Diode	1SS133,1SS176 TE	ダ イ オ ー ド	C#5-C7	48
3	VK025600	Wire Trap	52147 12P TE	ワ イ ヤ ー ト ラ ッ プ		01
4	VK024800	Wire Trap	52147 4P TE	ワ イ ヤ ー ト ラ ッ プ		01
	V7639200	Circuit Board	MK-88L	シ ー ト 8 8 L	(V763890)(X0002A0)	08
2	VB941200	Diode	1SS133,1SS176 TE	ダ イ オ ー ド	A1-C2	56
3	VK025600	Wire Trap	52147 12P TE	ワ イ ヤ ー ト ラ ッ プ		01
4	VK024900	Wire Trap	52147 5P TE	ワ イ ヤ ー ト ラ ッ プ		01
*	WG255000	Circuit Board	PNL	P N L シ ー ト	(WG25520)(X7137B0)	
*	WG255100	Circuit Board	PNR	P N R シ ー ト	(WG25520)(X7137B0)	
CN01	V4928200	Connector, FFC	52806-1210 12P TE	F F C コ ネ ク タ		01
CN02	WG033600	FFC Connector	52806 15P TE	F F C コ ネ ク タ		
CN03	VK024700	Wire Trap	52147 3P TE	ワ イ ヤ ー ト ラ ッ プ		01
D01	VB941200	Diode	1SS133,1SS176 TE	ダ イ オ ー ド		01
D01	VV437800	Diode	1N4148(DO-34)	ダ イ オ ー ド		01
D02	VB941200	Diode	1SS133,1SS176 TE	ダ イ オ ー ド		01
D02	VV437800	Diode	1N4148(DO-34)	ダ イ オ ー ド		01
D03	VB941200	Diode	1SS133,1SS176 TE	ダ イ オ ー ド		01
D03	VV437800	Diode	1N4148(DO-34)	ダ イ オ ー ド		01
D04	VB941200	Diode	1SS133,1SS176 TE	ダ イ オ ー ド		01
D04	VV437800	Diode	1N4148(DO-34)	ダ イ オ ー ド		01
D05	VB941200	Diode	1SS133,1SS176 TE	ダ イ オ ー ド		01
D05	VV437800	Diode	1N4148(DO-34)	ダ イ オ ー ド		01
D06	VB941200	Diode	1SS133,1SS176 TE	ダ イ オ ー ド		01
D06	VV437800	Diode	1N4148(DO-34)	ダ イ オ ー ド		01
D07	VB941200	Diode	1SS133,1SS176 TE	ダ イ オ ー ド		01
D07	VV437800	Diode	1N4148(DO-34)	ダ イ オ ー ド		01
D08	VB941200	Diode	1SS133,1SS176 TE	ダ イ オ ー ド		01
D08	VV437800	Diode	1N4148(DO-34)	ダ イ オ ー ド		01
*	LD01	LED	BL-S4537 RED	L E D	P.A.T ON/OFF	
*	LD02	LED	BL-BEG201	2 色 L E D	START/STOP	
*	LD03	LED	BL-S4537 RED	L E D	SONG MELODY VOICE	
*	-06	WG913000	LED	L E D	SONG MELODY VOICE	
R01	V2548200	Carbon Resistor	150.0 1/6J 26TP	カ ー ボ ン 抵 抗		
R02	V2547300	Carbon Resistor	27.0 1/6J 26TP	カ ー ボ ン 抵 抗		
R03	V2547100	Carbon Resistor	18.0 1/6J 26TP	カ ー ボ ン 抵 抗		
R05	V2548200	Carbon Resistor	150.0 1/6J 26TP	カ ー ボ ン 抵 抗		
-08	V2548200	Carbon Resistor	150.0 1/6J 26TP	カ ー ボ ン 抵 抗		

* : New parts

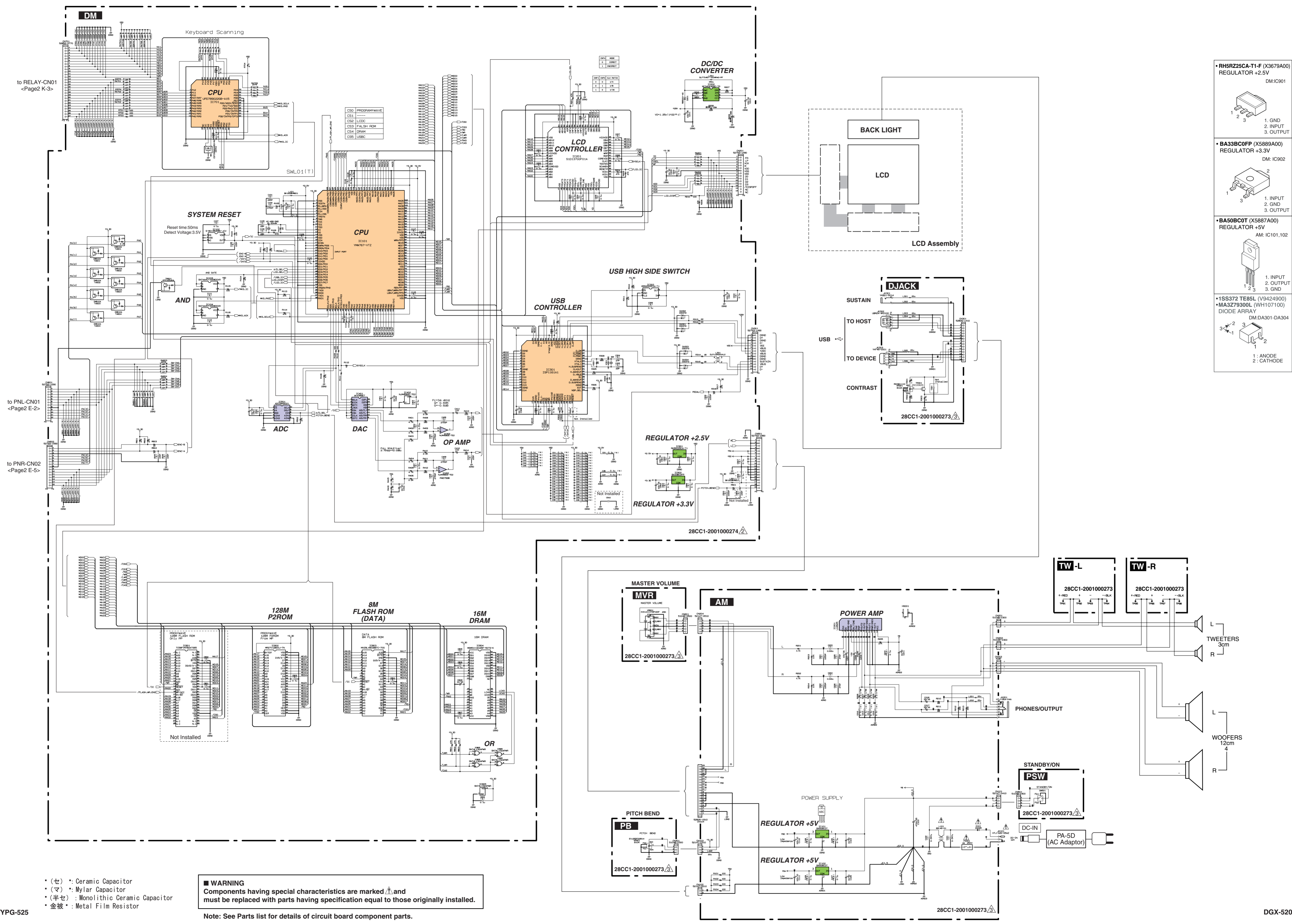
RANK : Japan only

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY	RANK
*	WG200800	Circuit Board	RELAY	R E L A Y シ ー ト	(WG20090)(X7138B0)	6	
	VA078900	Jumper Wire	0.55 TIN	ジ ャ ン パ ー 線			
CN01	WC338900	FFC Connector	52806 27P TE	F F C コ ネ ク タ			
CN02	VK025600	Wire Trap	52147 12P TE	ワ イ ヤ ー ト ラ ッ プ			
CN03	VK024900	Wire Trap	52147 5P TE	ワ イ ヤ ー ト ラ ッ プ	01		
CN04	VF728300	Wire Trap	52147 6P TE	ワ イ ヤ ー ト ラ ッ プ		01	
CN05	VK024800	Wire Trap	52147 4P TE	ワ イ ヤ ー ト ラ ッ プ		01	
	X0159A00	Speaker	3.0cm	ス ピ ー カ	TWEETER	2	01
*	X7430A00	Speaker	12.0cm 4 ohm 10W	ス ピ ー カ	WOOFER	2	
*	WG299100	LCD Unit	PT	液 晶 ユ ニ ッ ト			
	NB037130	Switch Assembly		ス イ ッ チ ア セ ン ブ リ ー	FOOT PEDAL		05

* : New part

RANK : Japan only

■ DGX-520/YPG-525 OVERALL CIRCUIT DIAGRAM (AM, DJACK, DM, MVR, PB, PSW, TW)



- RH5R225CA-T1-F (X3679A00) REGULATOR +2.5V DM:IC901
- BA33BC0FP (X5889A00) REGULATOR +3.3V DM:IC902
- BA50BC0T (X5887A00) REGULATOR +5V AM:IC101,102
- 1SS372 TE85L (V9424900) • MA3Z79300L (WH107100) DIODE ARRAY DM:DA301-DA304

- (七) : Ceramic Capacitor
- (マ) : Mylar Capacitor
- (半七) : Monolithic Ceramic Capacitor
- 金被 : Metal Film Resistor

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

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

■ DGX-520/YPG-525 OVERALL CIRCUIT DIAGRAM (ENC, MK-88C, MK-88H, MK-88L, PNL, PNR, RELAY)

