DIGITAL WORKSTATION

OPTION SPEAKER

Tyros4 / TRS-MS04

SERVICE MANUAL



Tyros4



TRS-MS04

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PK 001850

YAMAHA

HAMAMATSU, JAPAN

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IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

WARNING : Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

IMPORTANT : This presentation or sale of this manual to any individual or firm does not constitute authorization certification, recognition of any applicable technical capabilities, or establish a principal-agent relationship of any form.

The data provided is belived 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: This product contains chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!

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

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

IMPORTANT NOTICE FOR THE UNITED KINGDOM

Connecting the Plug and Cord

WARNING: THIS APPARATUS MUST BE EARTHED

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

GREEN-AND-YELLOW	: EARTH
BLUE	: NEUTRAL
BROWN	: LIVE

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

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or colored GREEN or GREEN-and-YELLOW.

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

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

• This applies only to products distributed by Yamaha-Kemble Music (U.K.) Ltd. (3 wires)

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

- The data of the types listed below are lost when you turn off the power to the instrument. Save the data to the User drive or appropriate external media.
  - Created/Edited Voices
  - Created/Edited Styles
  - Memorized One Touch Settings
  - Recorded/Edited Songs
  - Created Multi Pads
  - Edited MIDI Settings

  Data in the User drive may be lost due to malfunction or incorrect operation. Save important data to an external media.
  Data in the internal hard disk drive may be lost due to malfunction or incorrect operation. We recommend that you backup any necessary data to computer by using the USB Storage Mode.

Backing up the USB storage device/external media

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

SPECIFICATIONS (Tyros4)

Keyboard	Keys		61 keys (C1–C6) Initial Touch/Aftertouch
	Type		Organ (FSX)
Voice	Polyphony (max)		128
	Layer		R1/R2/R3/L
	Split		Style (default point: F#2), Left (default point: F#2), Right 3 (default point: G2)
	Voices		993 Voices + 30 Organ Flutes + 480 XG Voices + 256 GM2 Voice + 44 Drum/SFX Kits (And GS Voices for GS Song playback)
		S.Articulation2! (AEM technology)	15 (additional 15 for Styles) [STRINGS] JazzViolin/CelticViolin [TRUMPET] JazzTrumpet/ClassicTrumpet [SAXOPHONE] PopSoprano/BalladSoprano/JazzSax/BreathySax [FLUTE/CLARINET] Clarinet/BalladClarinet/RomanceClarinet/ IrishPipeAir/IrishPipeDance [ACCORDION] Harmonica/BluesHarp
		S.Articulation!	164
		MegaVoice	43
		Live!	101
		Cool!	71
		Sweet!	30
		Organ Flutes!	30 Presets
		Drums	44 (included SFX)
Voice Expandability	Custom Voices		Yes
	Premium Voices		Yes (optional flash memory expansion module is necessary)
	Voice Set		Yes
Style	Styles		500
	Format		SFF GE
	Control		SYNC STOP, SYNC START, START/STOP, AUTO FILL IN
	Section		Intro x 3, Ending x 3, Main x 4, Fill In x 4, Break
	Fingering		Single Finger, Fingered, Fingered On Bass, Multi Finger, AI Fingered, Full Keyboard, AI Full Keyboard
	Style Creator		Yes
	RAM Capacity per a Style		approx. 120 KB
OTS (One Touch Setting)			4 for each Style
Music Finder	Preset Records (Max.)		135 (2,500)
	Music Finder Plus		Yes
Song	Preset Songs		5 Sample Songs
	Control		REC, STOP, PLAY/PAUSE, REW, FF, METRONOME
	Recording		Quick Recording, Multi Recording, Step Recording
	Tracks		16
	RAM Capacity per a Song		approx. 300 KB
	Lyric Display		Yes
	Score Display		Yes
	Song Position Jump		4 point / Loop
Style/Song Control			FADE IN/OUT, TAP TEMPO, TEMPO (5–500)
Pack Installation			Yes
Data Compatibility			GM, XG, XF, SFF, SFF GE, GM2/GS (for Song Playback)
Audio Recorder/Player	Tracks		Play: 2 Stereo Track (Multi), 1 Stereo Track (Simple) REC: 1 Stereo Track (Multi/Simple)
	Control		REC, STOP, PLAY/PAUSE, PREV, NEXT
	File Format		Play: .mp3 (MPEG-1 Audio Layer-3), .wav REC: .wav
MultiPad	Preset		164 banks x 4 Pads
	Control		Pad 1–4, STOP, SYNC START

Vocal Harmony	Preset	Vocal Harmony: 44 Synth Vocoder: 10
	User	60 * The number is the total of Vocal Harmony and Synth Vocoder.
	Vocal Effect	23
MIC SETTING	USER MEMORY	10
Effects	Reverb	44
	Chorus	106
	DSP1–DSP7	285
	DSP8–DSP9	285 (for Style)
	Master Compressor	5 Presets + 5 User settings
	Master Equalizer	5 Presets + 2 User settings
	Harmony/Echo	Yes
	Sustain Button	Yes
Registration Memory	Buttons	1–8
	Control	Bank select, Memory, Freeze, Registration Sequence
Control	Pitch Bend Wheel	Yes
	Modulation Wheel	Yes
	Articulation Switch	ART. 1, ART. 2
	Sliders	9 (including 1 assignable)
Transpose		-12–0–12 (Keyboard/Song/Master)
Tuning		414.8–440–466.8 Hz
Display		640 x 480 dots TFT VGA color 7.5 inch LCD
	Language	5 languages (English, German, French, Spanish, Italian)
	Text Viewer	Yes
	Wallpaper Customize	Yes
Storage		USB to Device
	Internal Flash	6MB
	Internal Hard Disk Drive	250GB or more
Terminals	USB TO HOST	USB 2.0 HighSpeed x 1
	USB TO DEVICE	USB 2.0 HighSpeed x 2 (Front/Back)
	MIDI	MIDI A (IN/OUT), MIDI B (IN/OUT)
	FOOT PEDAL	1 (SUSTAIN), 2 (ARTICULATION 1), 3 (VOLUME), Function Assignable
	Audio	LINE OUT MAIN (L/L+R, R)
		LINE OUT SUB (1, 2)
		LOOP SEND (L/L+R, R) / AUX OUT (Level Fixed): Selectable
		LOOP RETURN (L/L+R, R) / AUX IN (with TRIM control)
		MIC (MIC INPUT)
		PHONES
	RGB OUT	Yes
	VIDEO OUT	NTSC / PAL Composite
	LAN	Yes (100BASE-TX/10BASE-T)
	For Option Speaker	To Satellite Speaker (L/R), To Sub Woofer (L/R)
	Power Supply	AC IN
Dimensions [W x D x H] (without Music Rest)		1140 x 450 x 143 mm
Weight (without Music Rest)		14.5 kg
Included Accessories		AC power cord, Music rest and brackets, CD-ROM, Owner's Manual, Installation Guide, User Registration Card

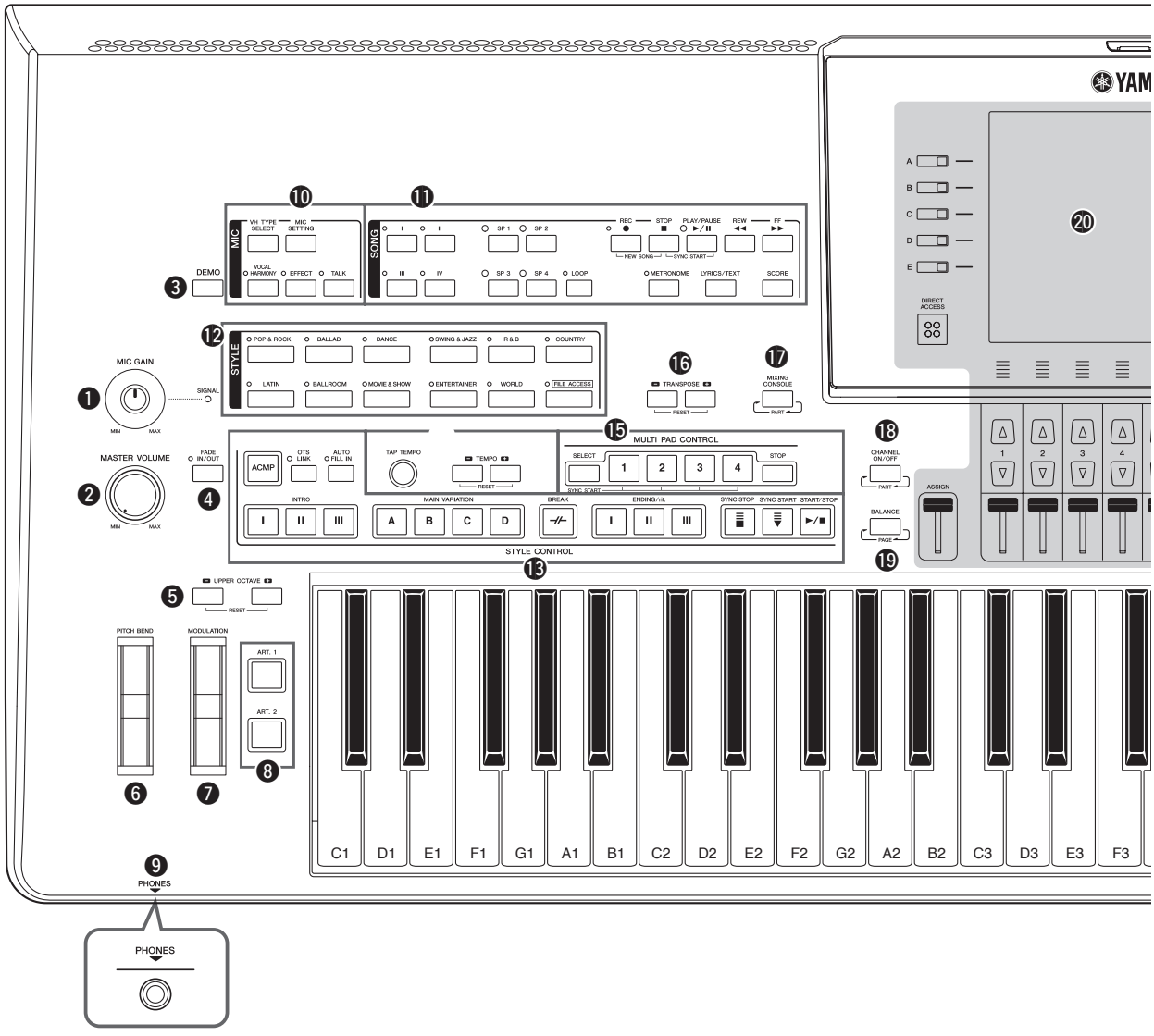
Optional Accessories	Speaker	TRS-MS04
	Headphones	HPE-150/HPE-160/HPE-170
	Footswitch	FC4/FC5
	Foot Controlle	FC7
	Flash Memory Expansion Module	FL1024M/FL512M
	MIDI Foot Controller	MFC10
	Keyboard Stand	L-7S

SPECIFICATIONS (TRS-MS04)

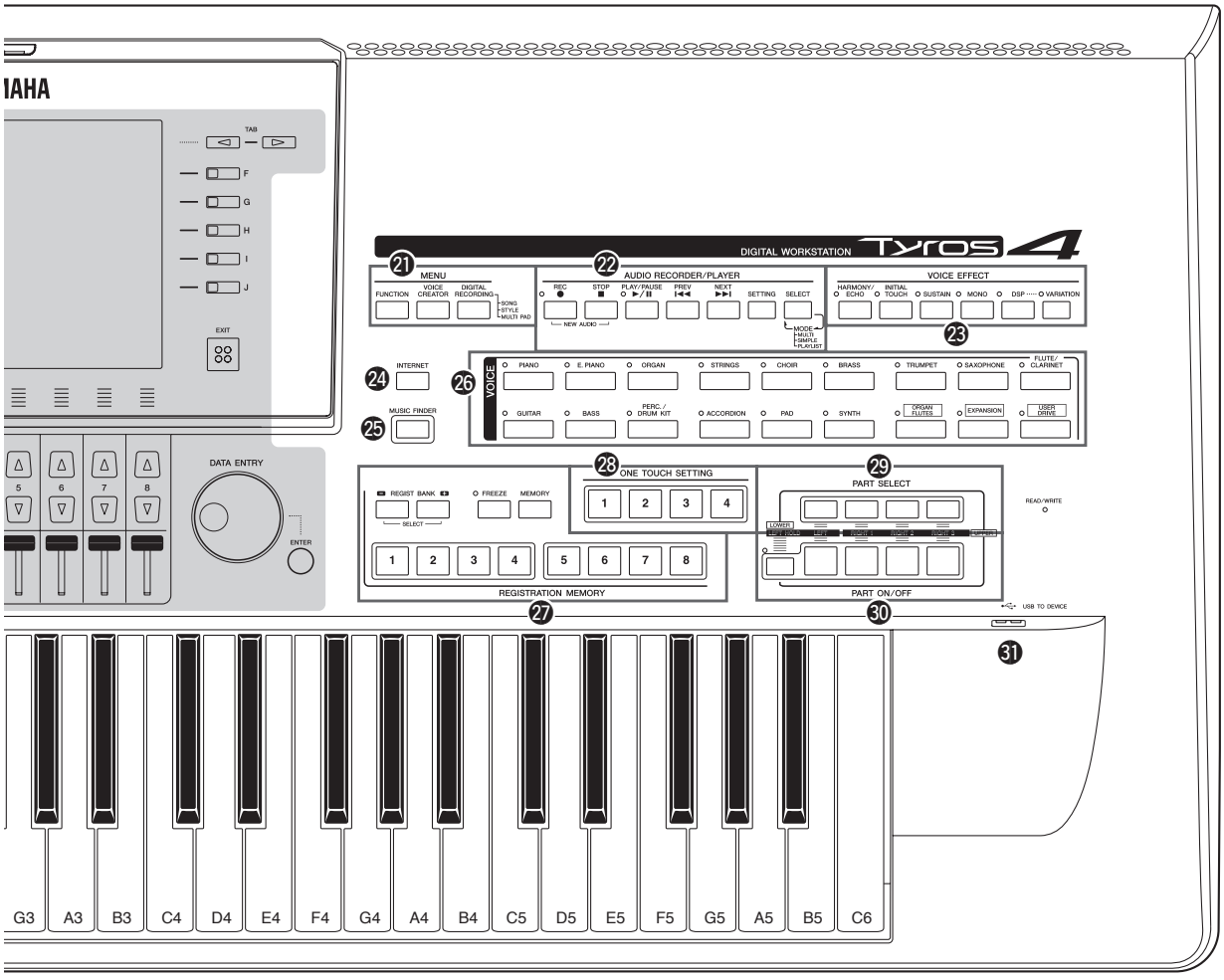
Type	ACTIVE SERVO TECHNOLOGY (Advanced Y.S.T)
Output power	Satellite speakers.....20 W + 20 W (1 kHz, 4Ω at T.H.D.=10%) Subwoofer.....40 W (100 Hz, 5 Ω at T.H.D.=10%)
Frequency response	32 Hz to 20 kHz
Speaker unit	Satellite speakers Tweeter.....1.9 cm (3/4") dome, magnetic shielding Midrange.....8 cm (3") cone, magnetic shielding Subwoofer.....16 cm (6.5") cone, magnetic shielding
Power consumption	65W
Power supply	U.S.A. and Canada models.....AC 120 V, 60 Hz Australia model.....AC 240 V, 50 Hz U.K. and Europe models.....AC 220–230 V, 50/60 Hz
Dimensions (W x H x D)	Satellite speakers.....97 (3.8”) x 159 (6.3”) x 178 (7”) mm Subwoofer.....350 (13.8”) x 210 (8.3”) x 321 (12.6”) mm
Weight	Satellite speakers.....0.7 (1 lb. 9 oz.) x 2 Subwoofer.....7.4 (16 lbs. 5 oz.)
Accessories	Speaker brackets x 2, RCA pin cables x 2, RCA pin/8-pin combination cable x 1, Owner’s manual x 1

PANEL LAYOUT (Tyros4)

• Top Panel

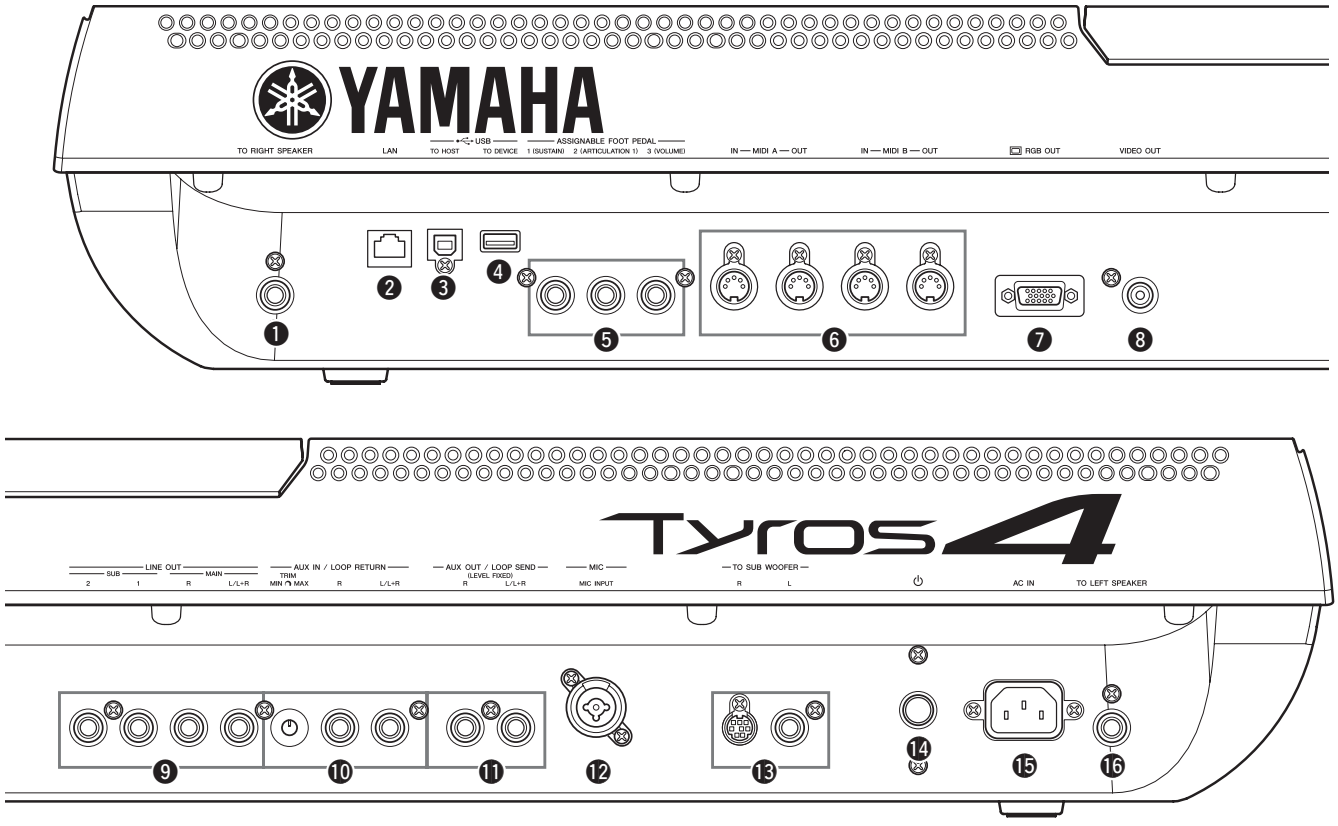


❶ [MIC GAIN] control
❷ [MASTER VOLUME] control
❸ [DEMO] button
❹ [FADE IN/OUT] button
❺ [UPPER OCTAVE] buttons
❻ [PITCH BEND] wheel
❼ [MODULATION] wheel
❽ [ART. 1/ART. 2] buttons
❾ [PHONES] jack
❿ [MIC] buttons
⓫ [SONG] buttons
⓬ [STYLE] category selection buttons
⓭ [STYLE CONTROL] buttons
⓮ [TEMPO] buttons
⓯ [MULTI PAD CONTROL] buttons
⓰ [TRANSPOSE] buttons
⓱ [MIXING CONSOLE] button
⓲ [CHANNEL ON/OFF] button
⓳ [BALANCE] button
⓴ LCD and related controls



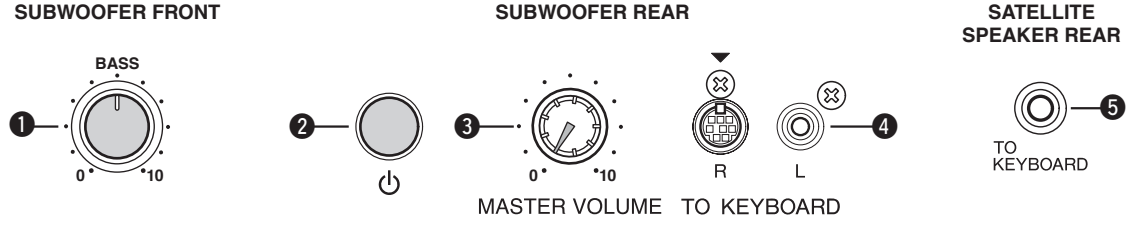
㉑ [MENU] buttons
㉒ [AUDIO RECORDER/PLAYER] buttons
㉓ [VOICE EFFECT] buttons
㉔ [INTERNET] button
㉕ [MUSIC FINDER] button
㉖ [VOICE] category selection buttons
㉗ [REGISTRATION MEMORY] buttons
㉘ [ONE TOUCH SETTING] buttons
㉙ [PART SELECT] buttons
㉚ [PART ON/OFF] buttons
㉛ [USB TO DEVICE] terminal

• Rear Panel



❶ [TO RIGHT SPEAKER] jack
❷ [LAN] terminal
❸ [USB TO HOST] terminal
❹ [USB TO DEVICE] terminal
❺ [ASSIGNABLE FOOT PEDAL] jacks
❻ [MIDI] terminals
❼ [RGB OUT] terminal
❽ [VIDEO OUT] terminal
❾ [LINE OUT] jacks
❿ [AUX IN/LOOP RETURN] jacks
⓫ [AUX OUT/LOOP SEND] jacks
⓬ [MIC] jack
⓭ [TO SUB WOOFER] jacks
⓮ [⏻] Power on/off switch
⓯ [AC IN] terminal
⓰ [TO LEFT SPEAKER] jack

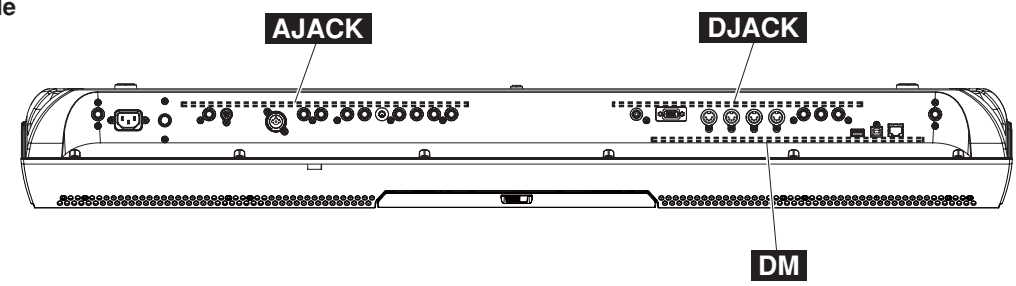
■ PANEL LAYOUT (TRS-MS04)



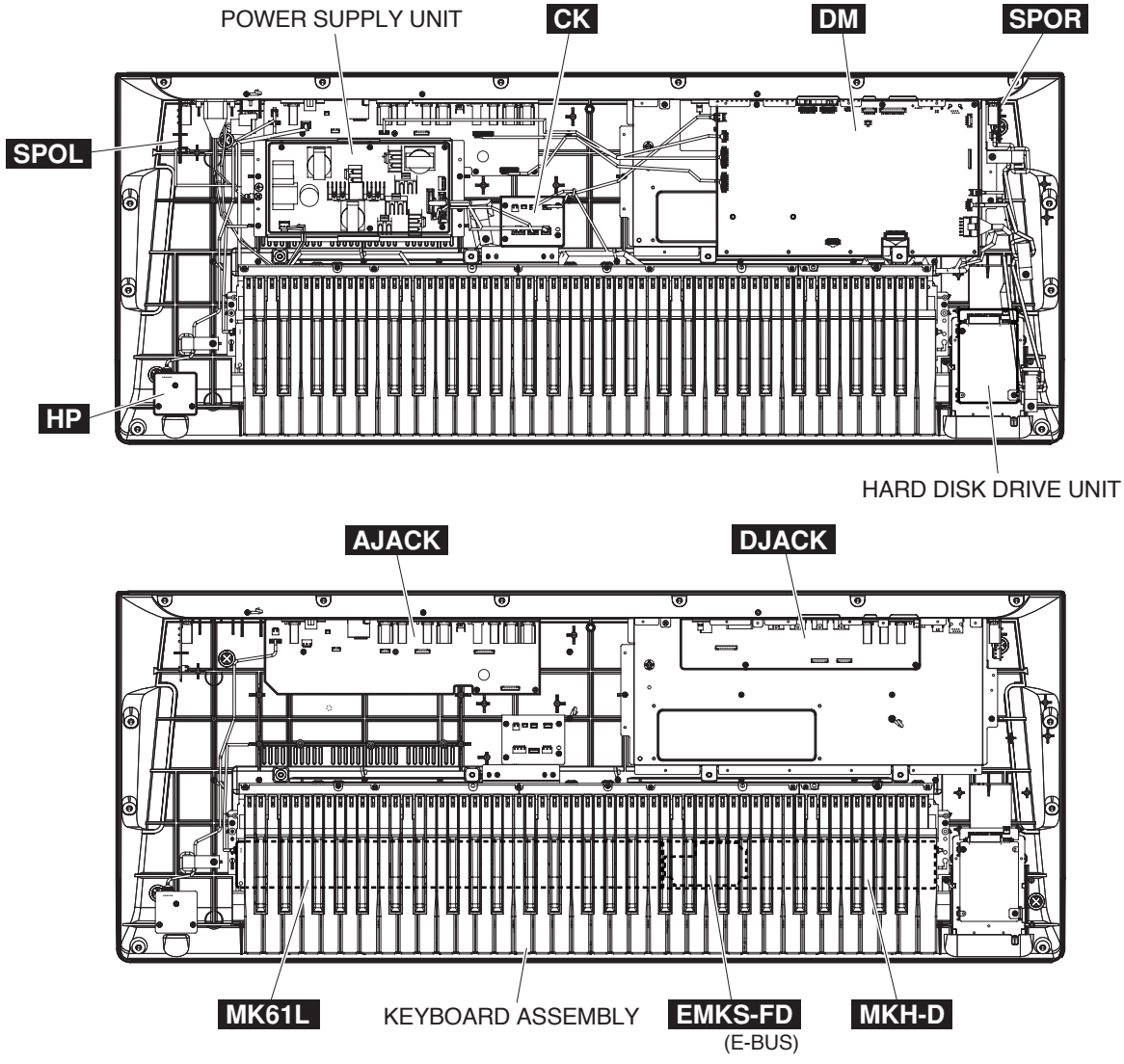
❶ [BASS] control knob
❷ Main power switch (⏻)
❸ [MASTER VOLUME] control knob
❹ [TO KEYBOARD L,R] jacks (WOOFER)
❺ [TO KEYBOARD] jack (Satellite)

CIRCUIT BOARD LAYOUT

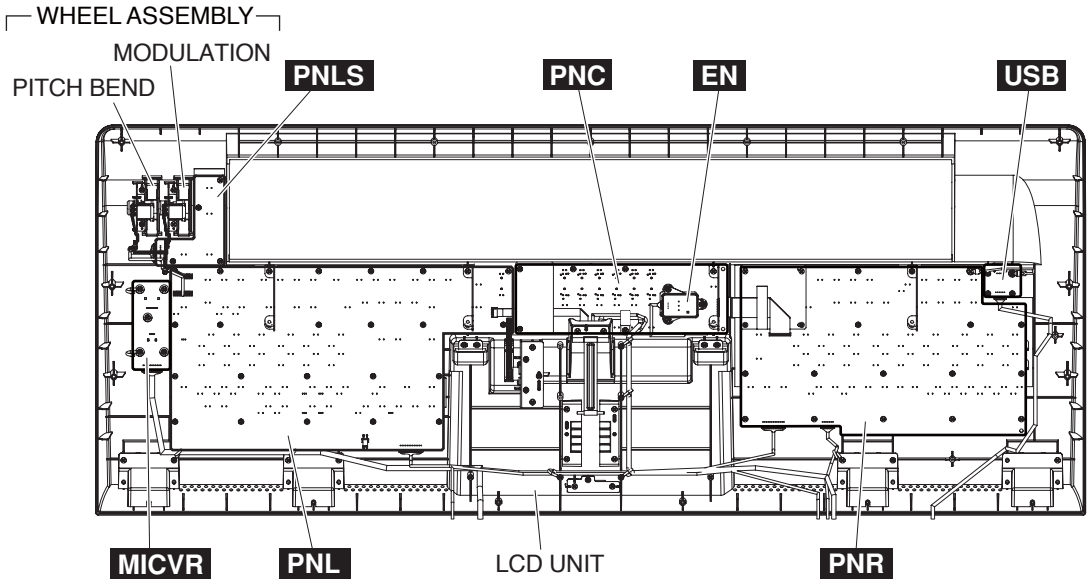
• **Rear Side**



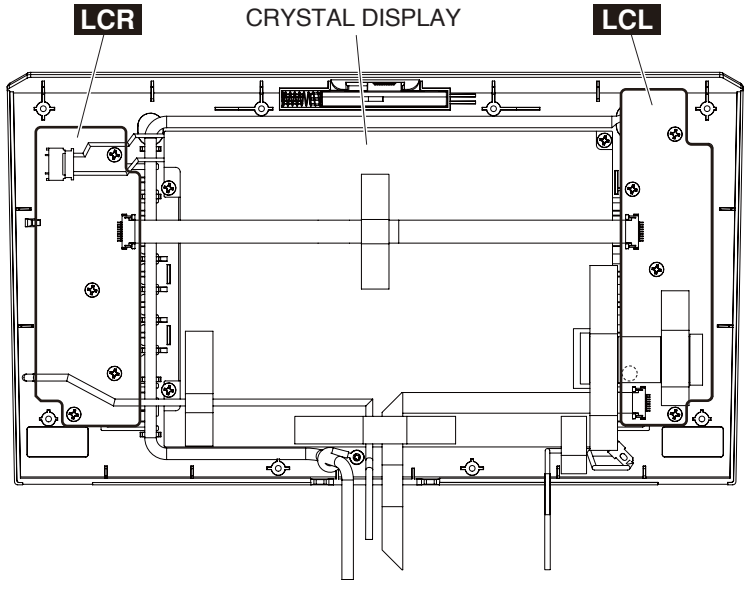
• **Lower Case Side**



• **Upper Case Side**



• **LCD Unit**



DISASSEMBLY PROCEDURE (Tyros4)

Precautions

- **If you want to turn the instrument or upper case unit upside down, prepare supporting materials and put the both end portions of the instrument or upper case unit on the supporting materials. (Fig. A)**

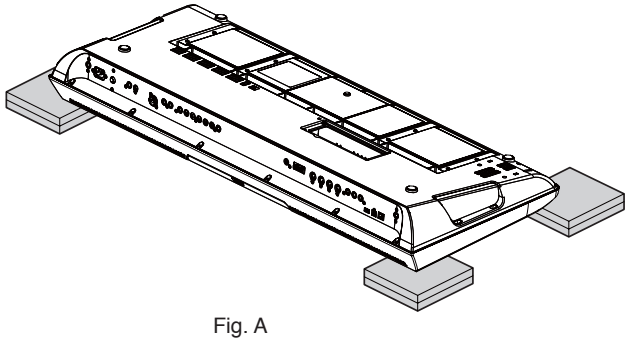
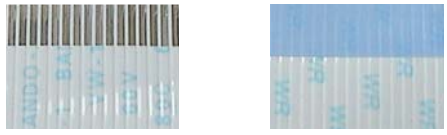


Fig. A

- **During reassembly, reinstall the adhesive tape, cord holder, GND wire and ferrite core that were removed during disassembly as they were before removal.**
- **Notes on Flat Cable**
  When connecting to the connector, pay attention not to insert the cable inversely. (Photo A)



Front Side　　Back Side (Taping Side)

Photo A

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1. Separation of Upper Case Unit and Lower Case Unit

(The required: About 5 minutes).

1-1 Remove the four (4) screws marked [S12] and seventeen (17) screws marked [S14A], lift the rear side of the upper case unit a little, pull it toward you a little paying attention not to damage connector assemblies, and lift the upper case unit carefully. (Fig. 1, Photo 1)

1-2 Remove the five (5) screws marked [S03A] and the screw marked [S11A]. The ACDM earth angle can then be removed. (Fig. 2)

1-3 Remove the ten (10) screws marked [S01A] and the screw marked [S09]. The DM cover can then be removed. (Fig. 2)

1-4 Disconnect all the connector assemblies connecting the upper case unit and lower case unit. The upper case unit and lower case unit can then be separated.



Photo 1

• **Bottom View**

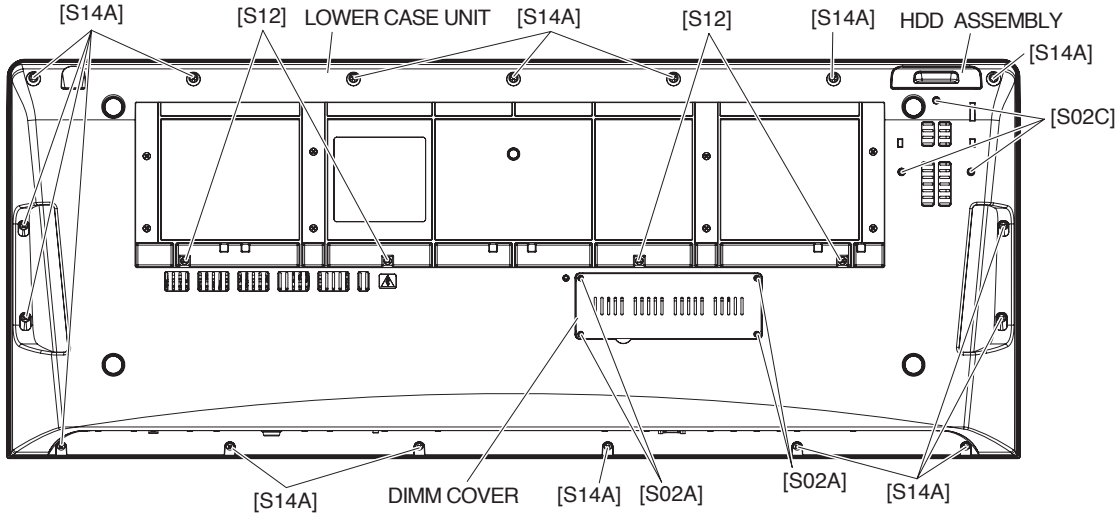


Fig. 1

• **Top View**

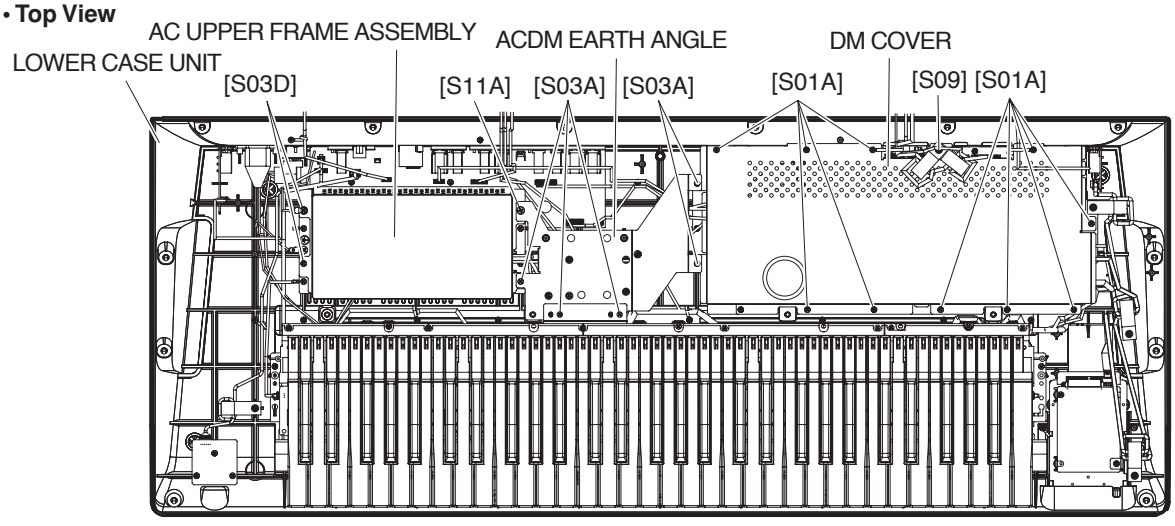


Fig. 2

2. DM Circuit Board

(Time Required: About 8 minutes)

* ***If there is a flash memory expansion module inserted into the expansion module socket, remove the four (4) screws marked [S02A] to remove the DIMM cover and loosen the two (2) screws marked [A] to remove the flash memory expansion module, before going to the procedure below. (Fig.1, Fig.3)***

2-1 Separate the upper case unit and lower case unit. (See procedure 1.)

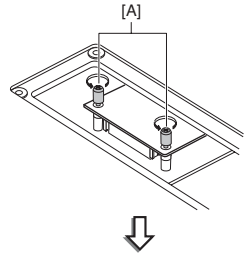
* ***Be sure to remove the DM cover.***

2-2 Remove the three (3) screws marked [S01B] and the screw marked [S02B]. The DM circuit board can then be removed. (Fig. 4)

* ***MAC (Media Access Control) address is stored in the DM circuit board. If the DM circuit board is replaced, MAC address will be changed.***

• Removing Flash Memory Expansion Module

Loosen the screws with your hand.



Pull the module vertically out of the socket.

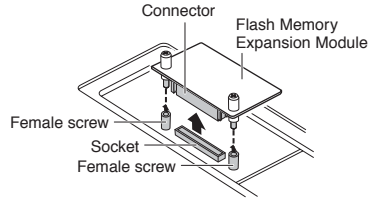


Fig. 3

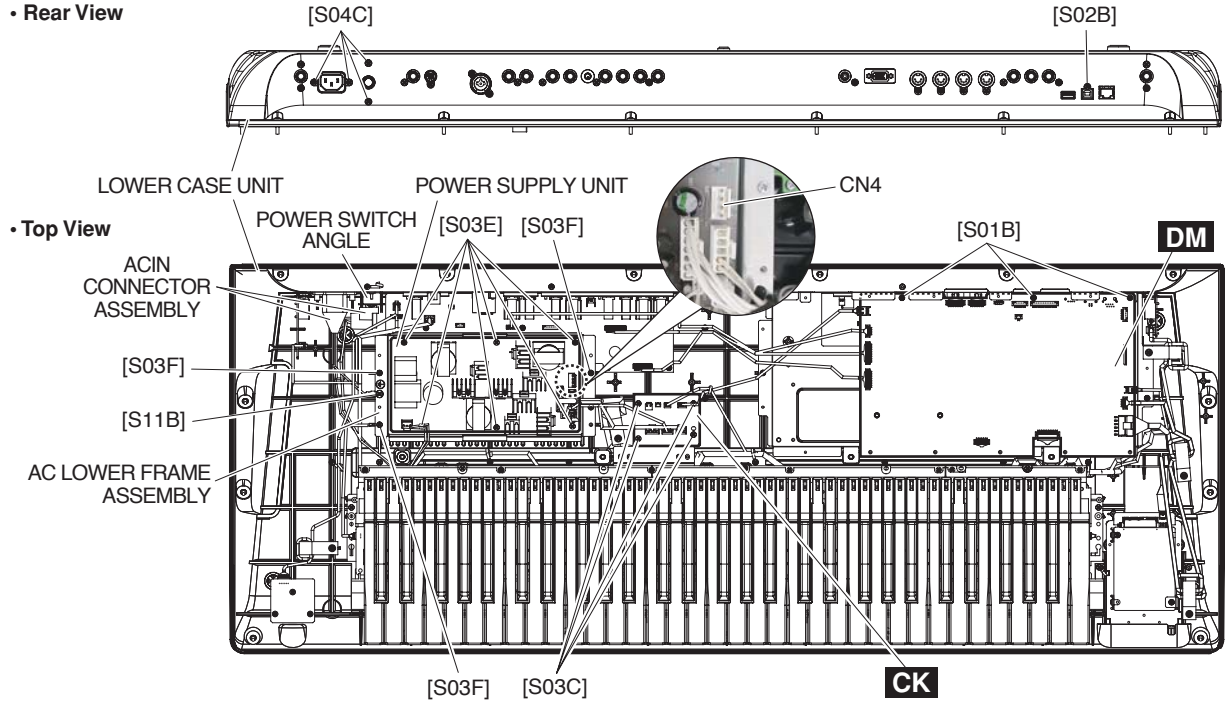


Fig. 4

3. DJACK Circuit Board

(Time Required: About 10 minutes)

3-1 Separate the upper case unit and lower case unit. (See procedure 1.)

3-2 Remove the DM circuit board. (See procedure 2.)

3-3 Remove the two (2) screws marked [S03B], seven (7) screws marked [S04A] and two (2) hexagonal lock screws marked [S21]. The DJACK circuit board can then be removed. (Fig. 5)

* ***Install the screws on the rear panel side first to install the DJACK circuit board.***

4. CK Circuit Board

(Time Required: About 6 minutes)

4-1 Separate the upper case unit and lower case unit. (See procedure 1.)

4-2 Remove the four (4) screws marked [S03C]. The CK circuit board can then be removed. (Fig. 4)

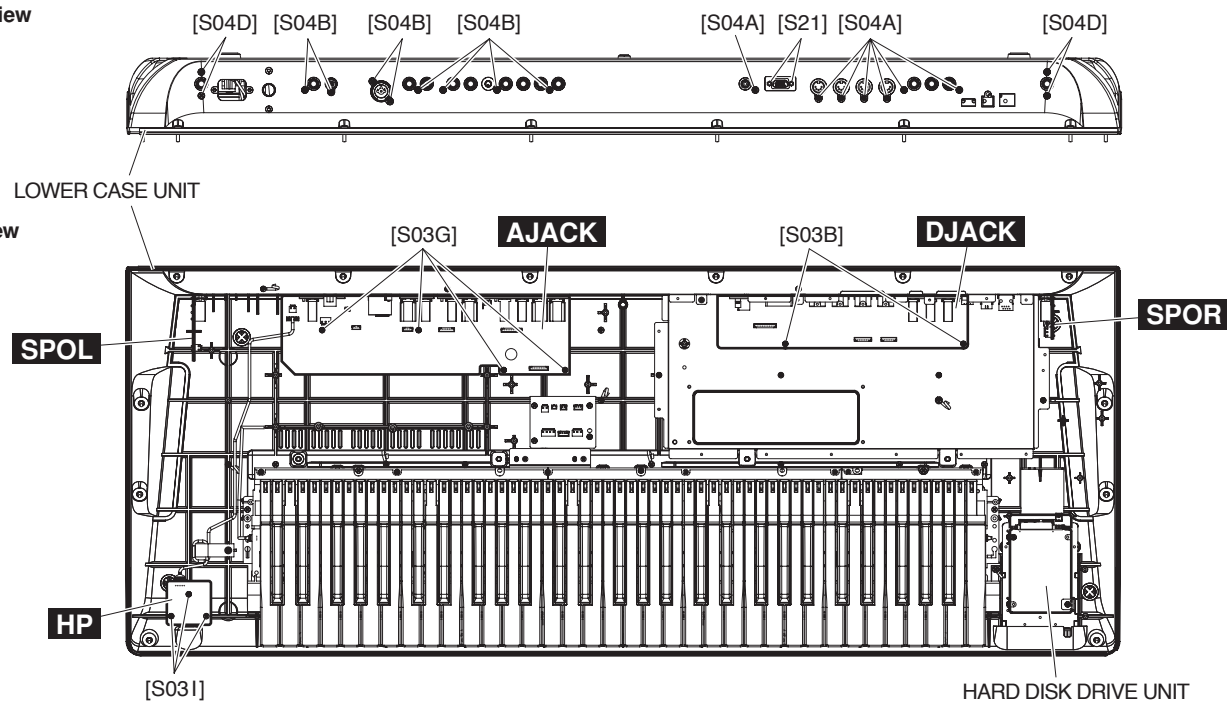


Fig. 5

5. AC Upper Frame Assembly
(Time Required: about 6 minutes)

5-1 Separate the upper case unit and lower case unit. (See procedure 1.)

5-2 Remove the two (2) screws marked [S03D]. The AC upper frame assembly can then be removed. (Fig. 2)

6. Power Supply Unit
(Time Required: About 7 minutes)

6-1 Separate the upper case unit and lower case unit. (See procedure 1.)

6-2 Remove the AC upper frame assembly. (See procedure 5.)

6-3 Remove the six (6) screws marked [S03E]. The power supply unit can then be removed. (Fig. 4)

* ***No cord should be connected to the CN4 of the power supply unit. Pay attention to connection during installment. (Fig. 4)***

7. AC Lower Frame Assembly
(Time Required: about 7 minutes)

7-1 Separate the upper case unit and lower case unit. (See procedure 1.)

7-2 Remove the AC upper frame assembly. (See procedure 5.)

7-3 Remove the three (3) screws marked [S03F] and the screw marked [S11B]. The AC lower frame assembly can then be removed with the power supply unit on it. (Fig. 4)

* ***No cord should be connected to the CN4 of the power supply unit. Pay attention to connection during installment. (Fig. 4)***

8. AJACK Circuit Board
(Time Required: About 8 minutes)

8-1 Separate the upper case unit and lower case unit. (See procedure 1.)

8-2 Remove the AC upper frame assembly. (See procedure 5.)

8-3 Remove the AC lower frame assembly with the power supply unit on it (See procedure 7.)

8-4 Remove the four (4) screws marked [S03G] and eight (8) screws marked [S04B]. The AJACK circuit board can then be removed. (Fig. 5)

9. ACIN Connector Assembly
(Time Required: About 7 minutes)

9-1 Separate the upper case unit and lower case unit. (See procedure 1.)

9-2 Remove the AC upper frame assembly. (See procedure 5.)

9-3 Remove the four (4) screws marked [S04C] and the screw marked [S11B]. The ACIN connector assembly can then be removed together with the power switch angle. (Fig. 4)

9-4 Remove the two (2) screws marked [S03H]. The power switch angle can then be removed. (Photo 2)

* ***The push button is not part of the ACIN connector assembly. When replacing the ACIN connector assembly (push switch), remove the push button from the push switch of the ACIN connector assembly and install it on the new ACIN connector assembly. (Photo 2)***

10. SPOL Circuit Board, SPOR Circuit Board
(Time Required: About 6 minutes)

10-1 Separate the upper case unit and lower case unit. (See procedure 1.)

10-2 Remove the two (2) screws marked [S04D]. The SPOL circuit board can then be removed. (Fig. 5)

* ***The SPOR circuit board can be removed in the same way.***

11. HP Circuit Board
(Time Required: About 6 minutes)

11-1 Separate the upper case unit and lower case unit. (See procedure 1.)

11-2 Remove the three (3) screws marked [S03I]. The HP circuit board can then be removed. (Fig. 5)

12. PNL Circuit Board
(Time Required: About 10 minutes)

12-1 Remove the slider knob (ASSIGN) from the control panel. (Fig. 6)

12-2 Separate the upper case unit and lower case unit. (See procedure 1.)

12-3 Remove the two (2) screws marked [S05A]. The protect sheet PNC can then be removed. (Fig. 7)

12-4 Remove the four (4) screws marked [S05B]. The two (2) panel stays (A) can then be removed. (Fig. 7)

12-5 Remove the twenty-two (22) screws marked [S05C]. The PNL circuit board can then be removed. (Fig. 7)

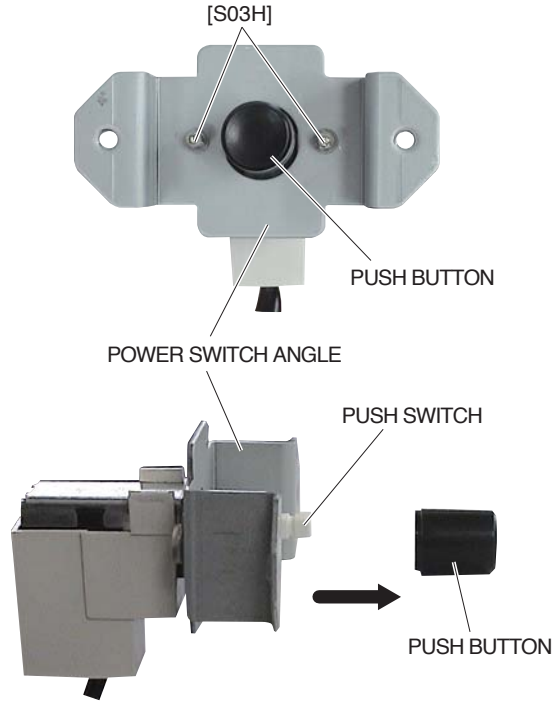


Photo 2

13. EN Circuit Board
(Time Required: About 6 minutes)

13-1 Remove the encoder knob from the control panel. (Fig. 6, Fig. 8)

13-2 Separate the upper case unit and lower case unit. (See procedure 1.)

13-3 Remove the three (3) screws marked [S05D]. The ENC assembly can then be removed. (Fig. 7)

13-4 Remove the hexagonal nut marked [B] and the washer marked [C]. The ENC stay can then be removed. (Fig. 9)

14. PNC Circuit Board
(Time Required: About 8 minutes)

14-1 Remove the eight (8) slider knobs (ASSIGN) and the encoder knob from the control panel. (Fig. 6)

14-2 Separate the upper case unit and lower case unit. (See procedure 1.)

14-3 Remove the ENC assembly. (See procedure 13-3)

14-4 Remove the protect sheet PNC. (See procedure 12-3)

14-5 Release the lock at the back of the LCD unit, open the LCD unit and remove the screw marked [S05E] which has been hidden. (Fig. 10, 11)

14-6 Remove the two (2) screws marked [S05F]. The panel stay (B) can then be removed. (Fig. 10)

14-7 Remove the three (3) screws marked [S05G]. The PNC circuit board can then be removed. (Fig. 10)

• **Top View**

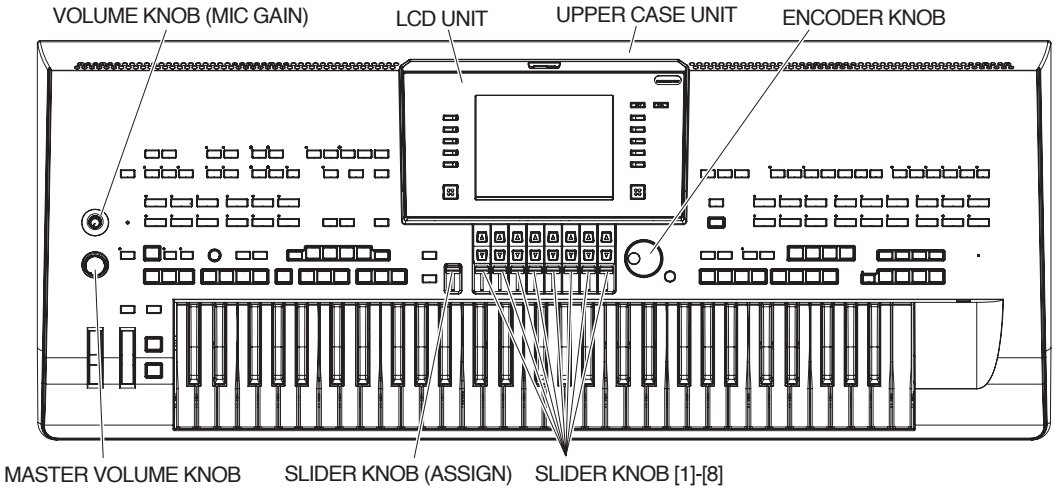


Fig. 6

• **Bottom View**

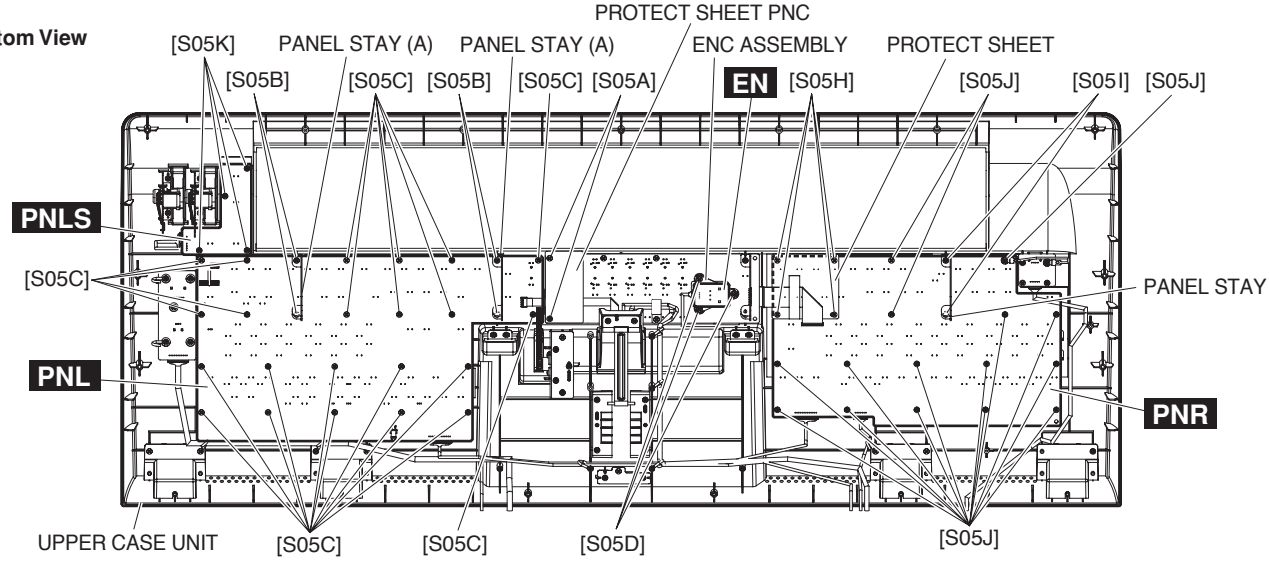


Fig. 7

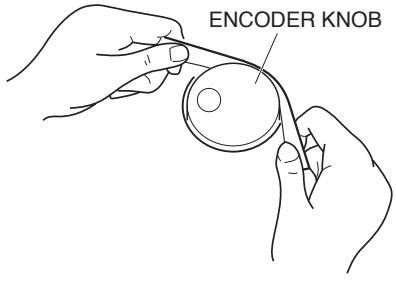


Fig. 8

• **ENC Ass'y**

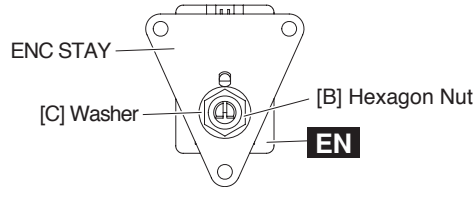


Fig. 9

• **Bottom View**

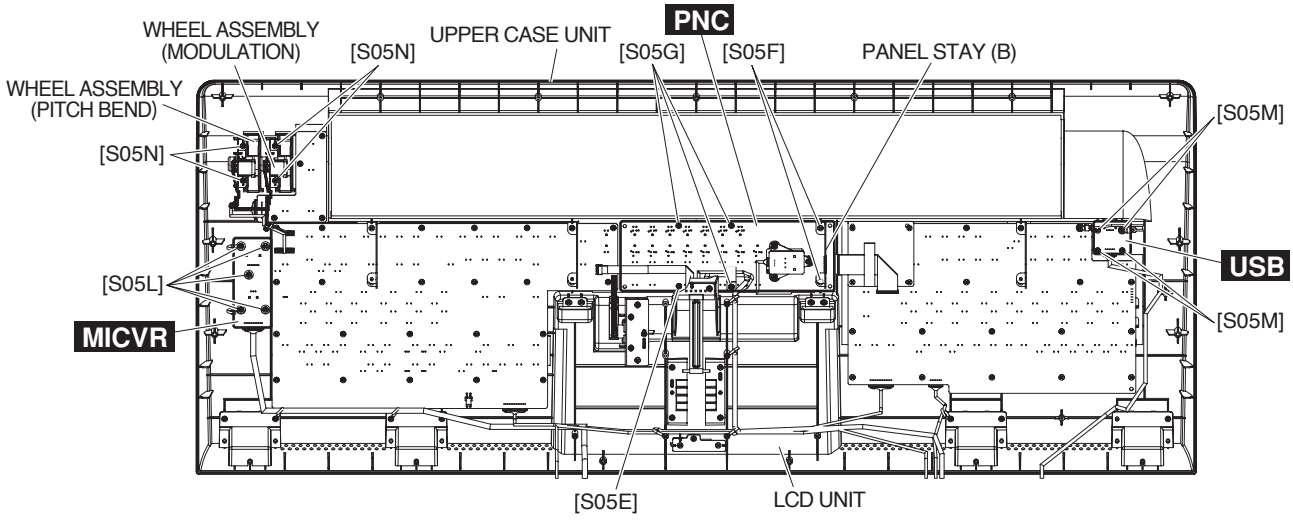


Fig. 10

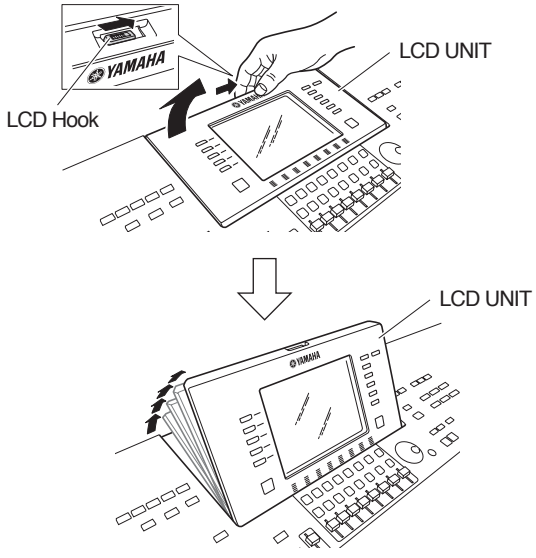


Fig. 11

15. PNR Circuit Board
(Time Required: About 9 minutes)

15-1 Separate the upper case unit and lower case unit. (See procedure 1.)

15-2 Remove the four (4) screws marked [S05H]. The protect sheet can then be removed. (Fig. 7)

15-3 Remove the two (2) screws marked [S05I]. The panel stay (C) can then be removed. (Fig. 7)

15-4 Remove the fifteen (15) screws marked [S05J]. The PNR circuit board can then be removed. (Fig. 7)

16. PNLS Circuit Board
(Time Required: About 6 minutes)

16-1 Separate the upper case unit and lower case unit. (See procedure 1.)

16-2 Remove the four (4) screws marked [S05K]. The PNLS circuit board can then be removed. (Fig. 7)

17. MICVR Circuit Board
(Time Required: About 6 minutes)

17-1 Remove the volume knob (MIC GAIN) and the MASTER VOLUME knob from the control panel. (Fig. 6)

17-2 Separate the upper case unit and lower case unit. (See procedure 1.)

17-3 Remove the five (5) screws marked [S05L]. The MICVR circuit board can then be removed. (Fig. 10)

18. USB Circuit Board
(Time Required: About 6 minutes)

18-1 Separate the upper case unit and lower case unit. (See procedure 1.)

18-2 Remove the four (4) screws marked [S05M]. The USB circuit board can then be removed. (Fig. 10)

19. Wheel Assembly (PITCH BEND, MODULATION)
(Time Required: About 6 minutes)

19-1 Separate the upper case unit and lower case unit (See procedure 1).

19-2 Remove the two (2) screws marked [S05N]. The wheel assembly (PITCH BEND) can then be removed. (Fig. 10)

* ***The wheel assembly (MODULATION) can be removed in the same way.***

20. LCD Unit (Time Required: About 7 minutes)

20-1 Separate the upper case unit and lower case unit. (See procedure 1.)

20-2 Remove the two (2) screws marked [S05O]. The stay hinge assembly can then be removed. (Fig. 12)

20-3 Remove the four (4) screws marked [S05P]. (Fig. 12)

20-4 Remove the protect sheet PNC. (See procedure 12-3.)

20-5 Remove the screw marked [S05Q]. The nylon clamp can then be removed. (Fig. 12)

20-6 Turn the front side of the upper case unit upward.

* ***Disconnect the connector assemblies of the LCD unit in advance.***

20-7 Release the lock at the back of the LCD unit, raise the LCD unit and remove the two (2) dust proof cloths. (Fig. 11, 13)

20-8 Tip the LCD unit until it is at an angle shown in Fig. 14, lift it a little and then pull it out obliquely upward. (Fig. 14)

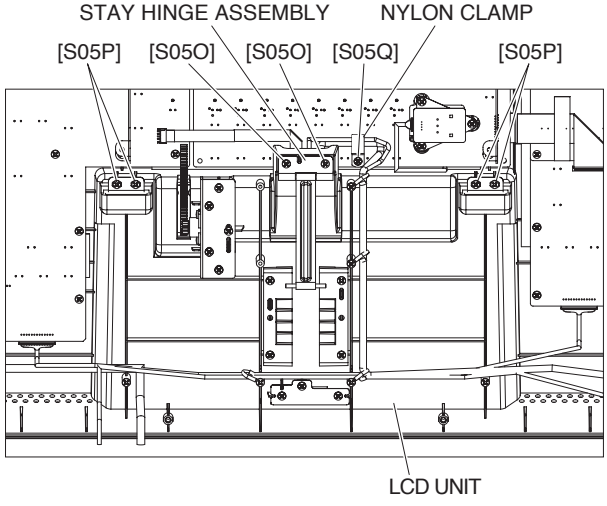


Fig. 12

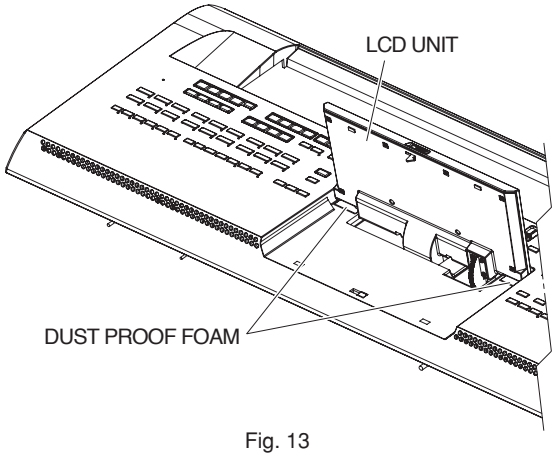


Fig. 13

21. LCD Lower Case Assembly and Gear (Time Required: About 7 minutes)

21-1 Separate the upper case unit and lower case unit. (See procedure 1.)

21-2 Remove the LCD unit. (See procedure 20.)

21-3 Remove the eight (8) screws marked [S04E], slide the LCD hook and remove the LCD lower case assembly and gear while shifting the hook at the back of the LCD unit as shown in Photo 3. (Fig. 15, Photo 3)

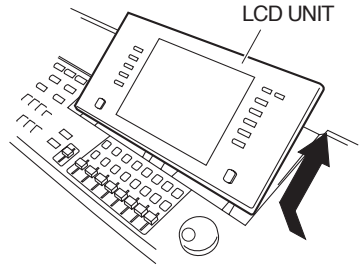


Fig. 14

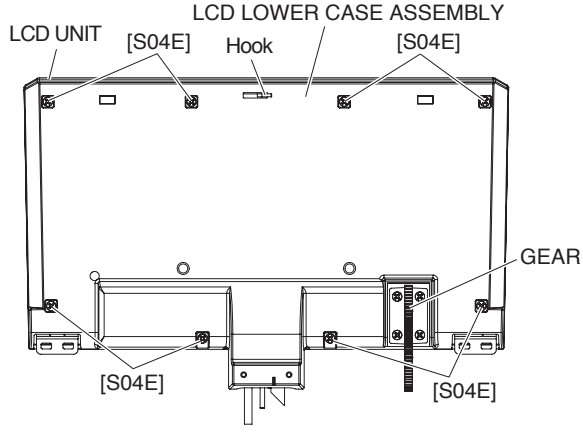


Fig. 15



Photo 3

22. LCL Circuit Board
(Time Required: About 7 minutes)

22-1 Separate the upper case unit and lower case unit. (See procedure 1.)
22-2 Remove the LCD unit. (See procedure 20.)
22-3 Remove the LCD lower case assembly and gear. (See procedure 21.)
22-4 Lift the stopper of the CN2 connector as shown in Fig. 16 and then remove the flat cable and ferrite core. (Fig. 16)
22-5 Remove the five (5) screws marked [S03J]. The LCL circuit board can then be removed. (Fig. 16)

23. LCR Circuit Board
(Time Required: About 7 minutes)

23-1 Separate the upper case unit and lower case unit. (See procedure 1.)
23-2 Remove the LCD unit. (See procedure 20.)
23-3 Remove the LCD lower case assembly and gear. (See procedure 21.)
23-4 Remove the four (4) screws marked [S03K]. The LCR circuit board can then be removed. (Fig. 16)

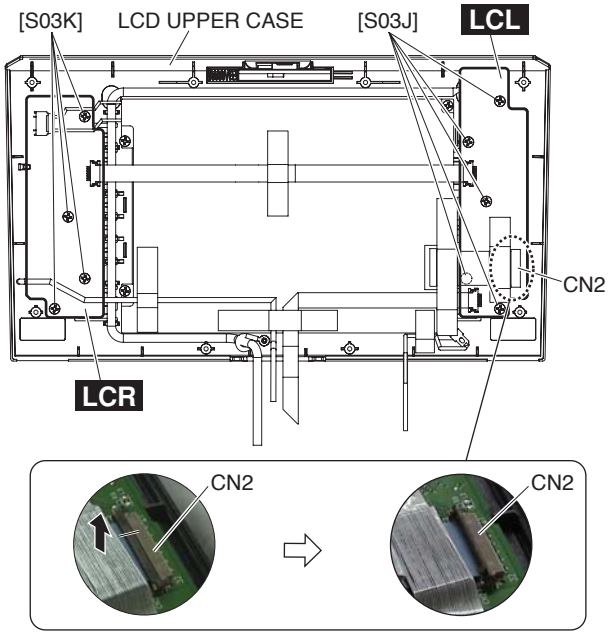


Fig. 16

24. Crystal Display
(Time Required: About 7 minutes)

24-1 Separate the upper case unit and lower case unit. (See procedure 1.)
24-2 Remove the LCD unit. (See procedure 20.)
24-3 Remove the LCD lower case assembly and gear. (See procedure 21.)
24-4 Lift the stopper of the connector at the portion [D] as shown in Fig. 17 and then remove the flat cable and ferrite core. (Fig. 17)
24-5 Remove the four (4) screws marked [S03L]. The crystal display can then be removed. (Fig. 17)

⚠ When connecting to the connector, pay attention not to insert the cable inversely.

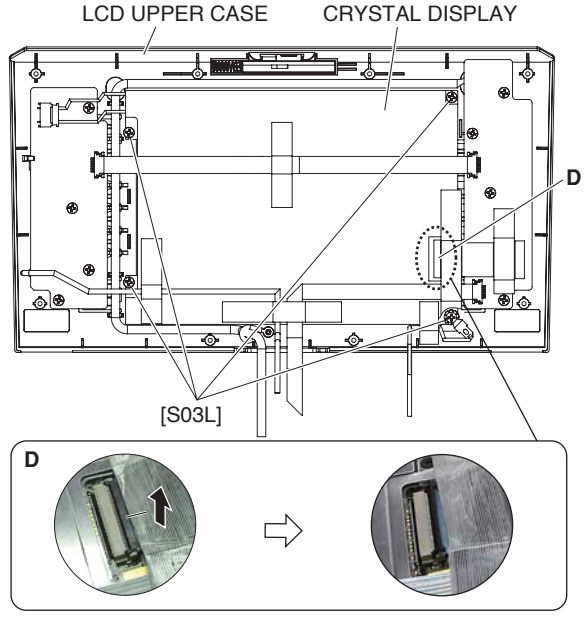


Fig. 17

25. Keyboard Assembly
(Time Required: About 9 minutes)

25-1 Separate the upper case unit and lower case unit. (See procedure 1.)
* ***Be sure to remove the DM cover.***
25-2 Remove the eight (8) screws marked [S14B] and five (5) screws marked [S05R]. The MK unit can then be removed. (Fig. 18)
* ***Be sure to loosen the cord holder marked [18] and release the flat cable (PC sensor) from the cord holder before lifting the keyboard. (Fig.18)***
If the keyboard is lifted without releasing the flat cable from the cord holder, the flat cable or the sensor may be damaged.

25-3 Remove the screw marked [MS13] and two (2) screws marked [MS03]. The data line filter and two (2) cord holders can then be removed from the keyboard assembly. (Fig. 19)

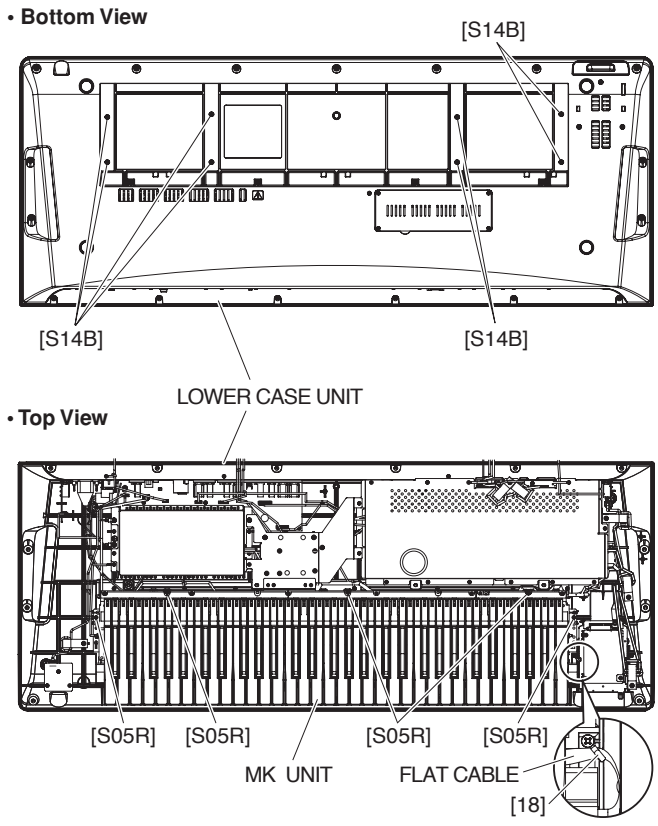


Fig. 18

26. Keys (White and Black Keys)

26-1 Separate the upper case unit and lower case unit. (See procedure 1.)

26-2 Remove the MK unit. (See procedure 25-2.)

26-3 Remove the key stoppers corresponding to the keys to be replaced. (Table 1, Fig. 20)

26-4 **White key**

26-4-1 Place the white key in the horizontal position and remove it, lifting while pushing rearward. (Photo 4)

* ***At this time, a key guide cap may come off together. (Photo 6)***

26-5 **Black key**

26-5-1 Remove the white keys on the right and left sides of the black key to be removed. (Photo 4)

26-5-2 Place the black key in the horizontal position and remove it, lifting while pushing rearward. (Photo 5)



Photo 4

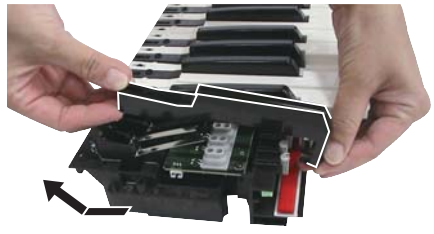


Photo 5

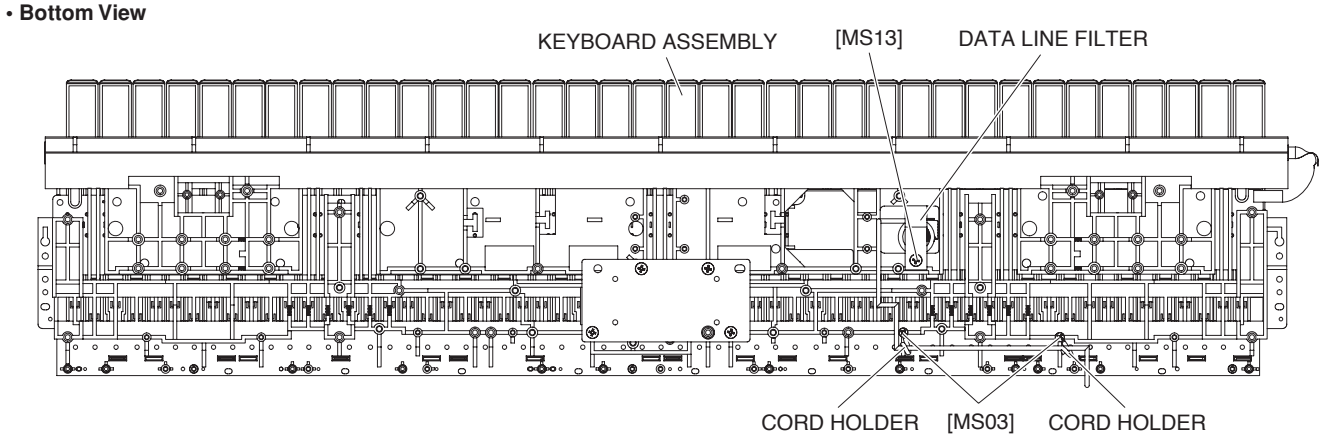


Fig. 19



Photo 6

Table 1

	KEY STOPPER L	KEY STOPPER H	KEY STOPPER 61
REMOVE SCREW	[240A] X 2, [240B] X 1	[240B] X 1, [240C] X 2	[240D] X 2

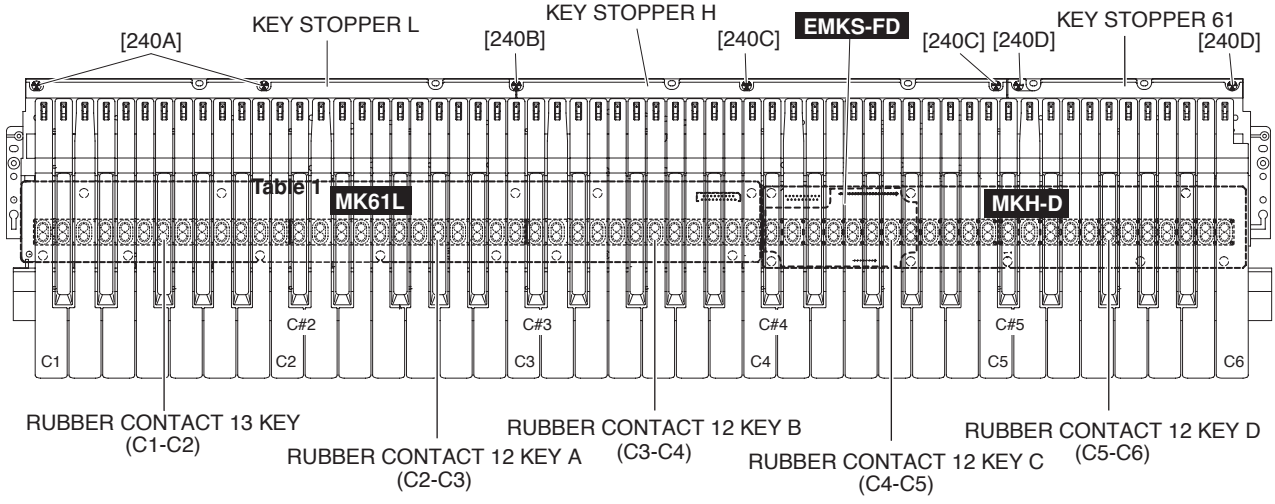


Fig. 20

27. Installing Keys (White and Black Keys)

27-1 **Black key**

27-1-1 With the white keys to the right and left sides removed, lower the front end of the horizontal black key and fit it into the frame while pushing it rearward.

* ***At this time, pay attention not to bend the key guide cap by lowering the front portion of the key too much. (Photo 6)***

27-2 **White key**

27-2-1 After installing the black keys, install the white keys in the same way as the black keys. (See procedure 27-1.)

27-3 Install the removed key stoppers. (Table 1, Fig. 20)

28. Disassembling Keyboard Assembly

28-1 Separate the uppur case unit and lower case unit. (See procedure 1.)

* ***Be sure to remove the DM cover.***

28-2 Remove the MK unit. (See procedure 25-2.)

28-3 **Rubber Contact**

28-3-1 Remove the key stoppers and keys listed in the table 2, corresponding to the rubber contacts to be removed. (Table 2, fig. 20) (See procedure 26.)

28-3-2 Pull out the rubber contact. (Fig. 20)

* ***The orientation of rubber contacts on the keyboard is previously designated. Pay attention not to install the rubber contacts inversely. (Fig. 21)***

* ***When installing the rubber contact, push it with the end of a clip. (Photo 7)***

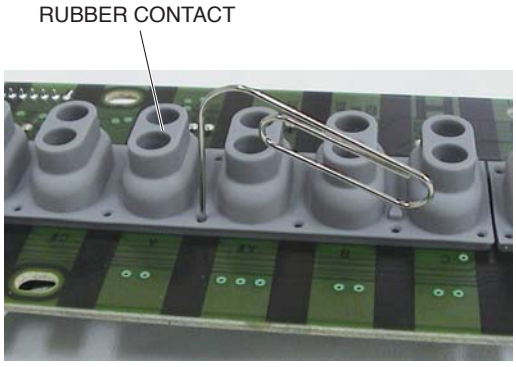


Photo 7

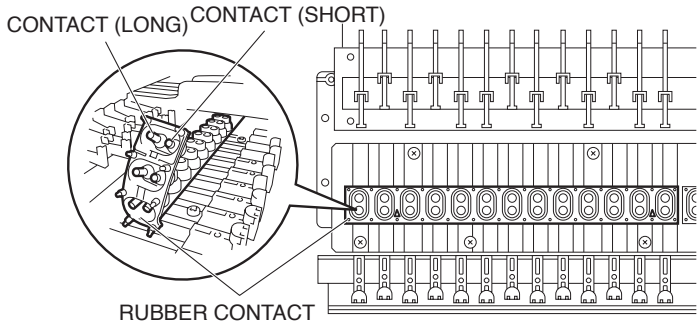


Fig. 21

Table 2

	RUBBER CONTACT 13KEY	RUBBER CONTACT 12KEY A	RUBBER CONTACT 12KEY B	RUBBER CONTACT 12KEY C	RUBBER CONTACT 12KEY D
APPLICATION CIRCUIT BOARD	MK61L	MK61L	MK61L	MKH-D	MKH-D
REMOVE KEY STOPPER	L	L, H	L, H	H	61
REMOVE KEY	C1-C2	C2-C3	C3-C4	C4-C5	C5-C6

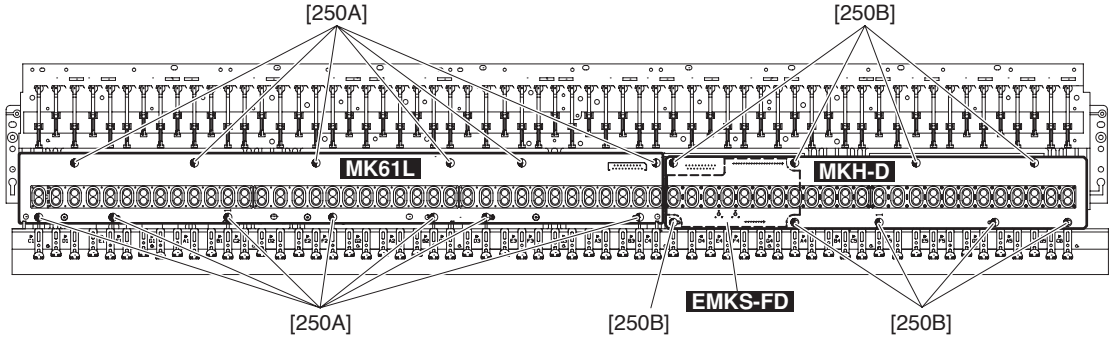


Fig. 22

28-4 **MK61L Circuit Board**
(Time required: About 8 minutes)

28-4-1 Remove the key stopper L and key stopper H. (Table 1, Fig. 20)

28-4-2 Remove the keys and the key springs from C1 to C4. (See procedure 26.)

28-4-3 Remove the thirteen (13) screws marked [250A] and disconnect the connector from the underside of the keyboard unit. The MK61L circuit board can then be removed. (Fig. 22, Photo 8)

* ***The rubber contacts are not parts of the MK61L circuit board. When replacing the MK61L circuit board, remove the rubber contacts from the circuit board and install them to new circuit board.***

28-5 **MKH-D Circuit Board, EMKS-FD Circuit Board**
(Time required: About 8 minutes)

28-5-1 Remove the key stopper H and key stopper 61. (Table 1, Fig. 20)

28-5-2 Remove the keys and key springs from C4 to C6. (See procedure 26.)

28-5-3 Remove the nine (9) screws marked [250B] and disconnect the connectors from the underside of the keyboard. The MKH-D circuit board can then be removed. (Fig. 22, Photo 8)

* ***The EMKS-FD circuit board is a part of the MKH-D circuit board and is soldered to the MKH-D circuit board at connectors. (Photo 9)***

* ***The rubber contacts are not parts of the MKH-D circuit board. When replacing the MKH-D circuit board, remove the rubber contacts from the circuit board and install them to new circuit board.***

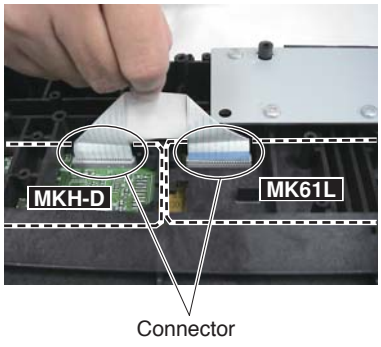


Photo 8

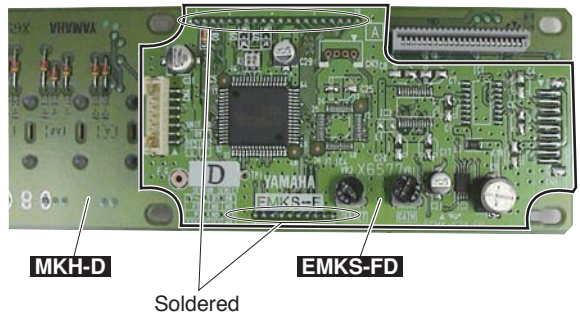


Photo 9

29. Hard Disk Drive Unit

Turn the Tyros4's power off, disconnect any cables including AC power cord from the keyboard.
Also make sure to close the LCD panel and disconnect a USB device from the [USB TO DEVICE] terminal.
Turn the Tyros4 face down on a blanket or some soft surface, giving you direct access to the bottom of the instrument.

29-1 Remove the three (3) screws marked [S02C]. (Fig. 23)

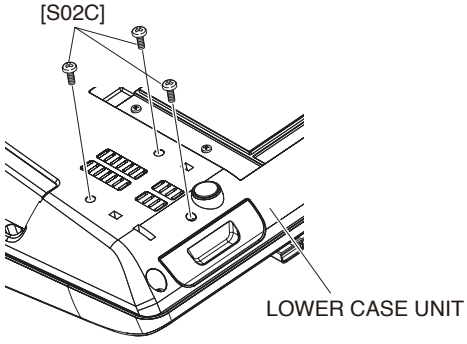


Fig. 23

29-2 Pull out the HDD bracket and disconnect the USB cable from the hard disk drive unit. (Fig. 24)

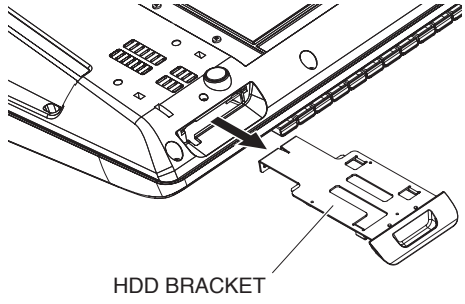


Fig. 24

29-3 Remove the three (3) screws marked [S08]. The hard disk drive unit can then be removed from the HDD bracket. (Fig. 25)

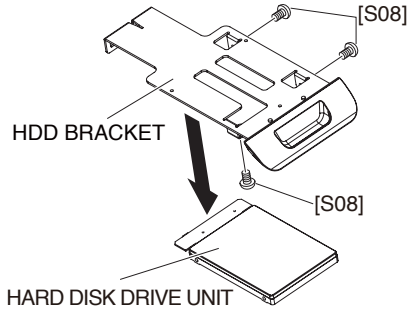


Fig. 25

■ DISASSEMBLY PROCEDURE (TRS-MS04)

1. AC Cord

(Time required: About 3 minutes)

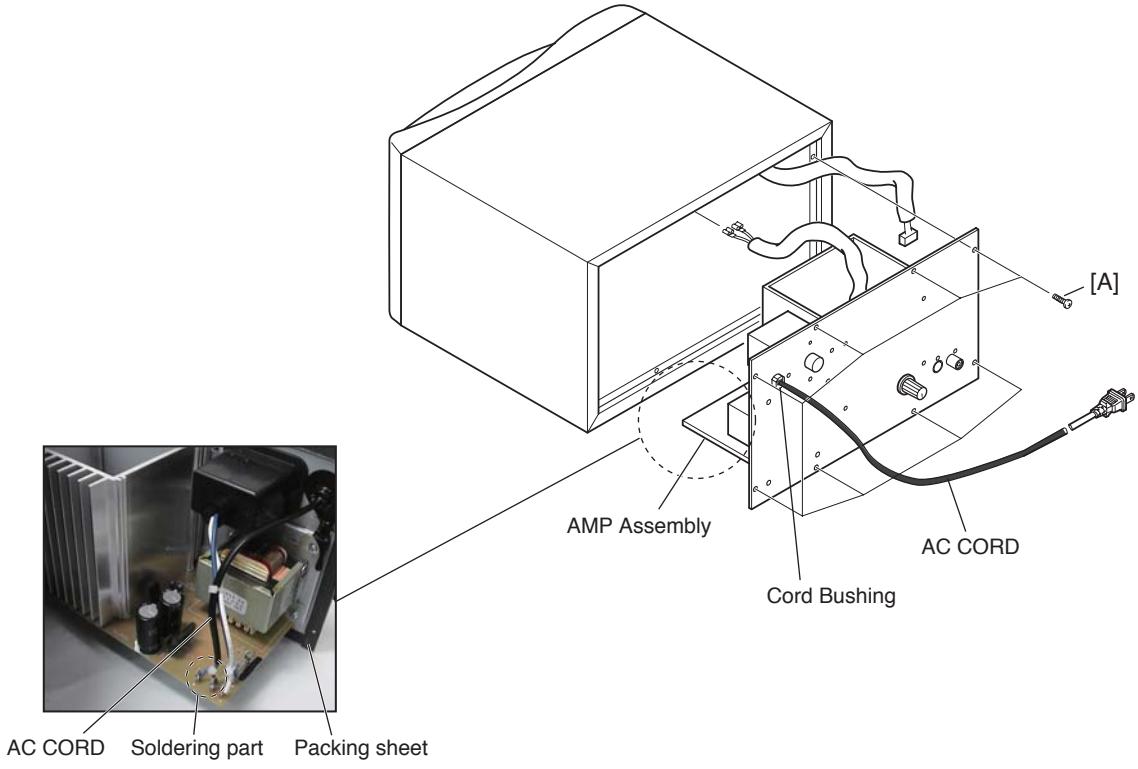
1-1 Remove the eight (8) screws marked [A]. The rear panel can then be removed. (Fig.1)

* *When reinstalling the rear panel, confirm that the packing is not damaged to avoid air leakage. (Fig.1)*

1-2 Remove the soldering portions of the AC cord from the AMP assembly. (Fig.1)

1-3 Remove the cord bushing from the rear panel. The AC cord can then be removed. (Fig.1)

* *When reinstalling the rear panel, confirm that the packing is not damaged to avoid air leakage. (Fig.1)*



(Fig.1)

INSTALLING THE OPTIONAL FLASH MEMORY EXPANSION MODULE

Installing an optional flash memory expansion module to the Tyros4 allows you to import Wave files on a USB storage device or hard disk drive, letting you create your own original Voices, Normal Voices and Drum Voices. (For informatio on creating original Voices, refer to the Reference Manual on the website.) This section explains how to install an expansion module to the Tyros4.

⚠WARNING

- Before beginning installation, switch off the power to the Tyros4 and connected peripherals, and unplug them from the power outlet. Installation or removal of any devices should be started ONLY after the instrument (and the optional hardware) returns to normal room temperature. Then remove all cables connecting the Tyros4 to other devices. (Leaving the power cord connected while working can result in electric shock. Leaving other cables connected can interfere with work.)
- Be careful not to drop any screws inside the instrument during installation (this can be prevented by keeping the optional unit and cover away from the instrument while attaching). If this does happen, be sure to remove the screw(s) from inside the instrument before turning the power on. Loose screws inside the instrument can cause improper operation or serious damage.
- Install the optional unit carefully as described in the procedure below. Improper installation can cause shorts which may result in irreparable damage and pose a fire hazard.
- Do not disassemble, modify, or apply excessive force to board areas or the connector on an optional module unit. Bending or tampering with the board and connector may lead to electric shock, fire, or equipment failures.

⚠CAUTION

- Do not touch the exposed metal parts in the circuit board. Touching these parts may result in a faulty contact.
- Be careful not to misplace any of the screws since all of them are used.
- Be careful of static electricity. Static electricity discharge can damage the module or the instrument. Before you handle the module, to reduce the possibility of static electricity, touch some unpainted metal surface or a ground wire on a device that is grounded.
- Do not use any screws other than what are installed on the instrument.
- It is recommended that you wear gloves to protect your hands from metallic projections on the optional unit and other components.Touching leads or the connector with bare hands may cause finger cuts, and may also result in poor electrical contact or electrostatic damage.
- Handle the optical unit with care. Dropping or subjecting it to any kind of shock may cause damage or result in a malfunction.

Compatible Flash Memory Expansion Modules

Two types of the module are available as follows:

- **FL512M**..... Features a memory size of 512 MB.
- **FL1024M**..... Features a memory size of 1024 MB.

NOTE:
In the Tyros4, one socket is available.

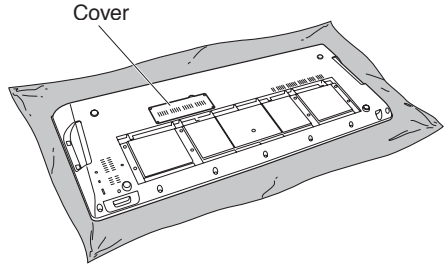
Flash Memory Expansion Module Installation

Before following the steps below, make sure you have appropriate module, a Philips screwdriver and ample space to work.

1 **Turn the Tyros4's power off, and disconnect any cables including AC power cord from the keyboard.**

Also make sure to close the LCD panel and disconnect the Tyros4 from any connected external devices.

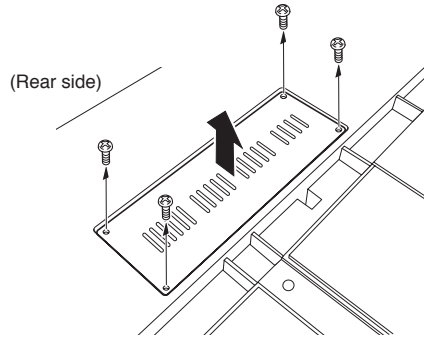
2 **Turn the Tyros4 face down on a blanket or some soft surface, giving you direct access to the bottom of the instrument.**



⚠CAUTION

Since the instrument is heavy, this procedure should not be done alone, but by two or three people.

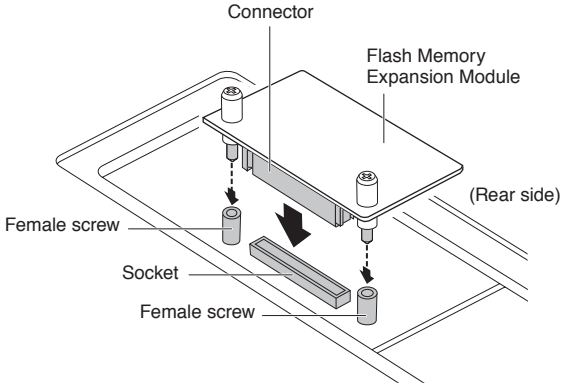
3 **Remove the four screws from the cover.**



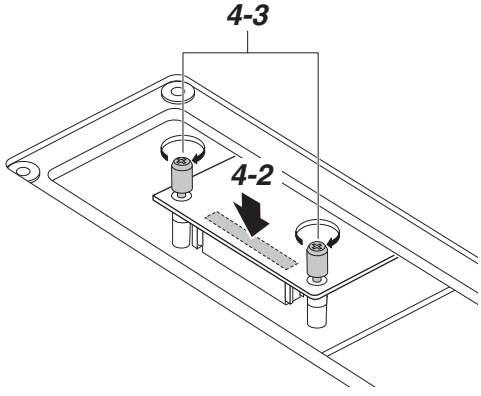
NOTE:
Keep the removed screws in a safe place. They will be used when reattaching the cover to the instrument after installation.

4 **Insert the module into the socket by following the procedure below.**

4-1 Insert the module vertically in the socket and position the screws (of the module) to the female screws respectively.



4-2 Press the top of the connector as shown, then push the connector firmly into the socket.



4-3 Tighten each screw of the module to each female screw of the Tyros4 with your hand as shown.

5 **Re-install the cover you removed in step 3, in reverse order.**

6 **Check that the installed module is functioning properly.**

6-1 Set the Tyros4 right-side up, and then turn the power on.

6-2 Call up the Format operation display.

[VOICE CREATOR] → [E] EXPANSION MODULE

6-3 Execute the Format operation following the messages on the display.

If the module has been installed properly, the appropriate available memory size is indicated in the PROPERTY display.
([VOICE CREATOR] → [E] EXPANSION MODULE → [7 ▼]–[8 ▼] PROPERTY)

LSI PIN DESCRIPTION

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AK5381VT-E2 (X5219A0R) **ADC** (Analog to Digital Converter) 28
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µPD780031AYGK-N09 (XZ916300) **E-PNS2a LED/SWITCH DRIVER** 36

● HD6433693B14HV (X480120R) E-VKS

EMKS-FD: IC005

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	NC		Not used	33	NC		Not used
2	NC			34	NC		
3	AVCC	-	Power supply	35	$\overline{NMI}$	I	Non maskable interrupt
4	X2	O	Crystal resonator	36	P80/FTCI	I/O	8-bit I/O port / External event input
5	X1	I		37	P81/FTIOA	I/O	8-bit I/O port / Output compare
6	VCL	-	Power supply	38	P82/FTIOB	I/O	8-bit I/O port / Output / input capture
7	$\overline{RES}$	I	Reset pin	39	P83/FTIOC	I/O	8-bit I/O port / Input PWM
8	TEST	I	Test pin	40	P84/FTIOD	I/O	8-bit I/O port / Output
9	VSS	-	Ground	41	P85	I/O	8-bit I/O port
10	OSC2	O	Crystal or ceramic resonator	42	P86	I/O	
11	OSC1	I		43	P87	I/O	
12	VCC	-	Power supply	44	P20/SCK3	I/O	3-bit I/O port / Clock
13	P50/$\overline{WKP0}$	I/O	8-bit I/O port / Interrupt request	45	P21/RXD	I/O	3-bit I/O port / Receive data input
14	P51/$\overline{WKP1}$	I/O		46	P22/TXD	I/O	3-bit I/O port / Transmit data output
15	NC		Not used	47	NC		Not used
16	NC			48	NC		
17	NC			49	NC		
18	NC			50	NC		
19	P52/$\overline{WKP2}$	I/O	8-bit I/O port / Interrupt request	51	P14/$\overline{IRQ0}$	I/O	7-bit I/O port / Interrput request
20	P53/$\overline{WKP3}$	I/O		52	P15/$\overline{IRQ1}$	I/O	
21	P54/$\overline{WKP4}$	I/O		53	P16/$\overline{IRQ2}$	I/O	
22	P55/$\overline{WKP5}$/ADTRG	I/O	8-bit I/O port / Interrupt request / A/D converter trigger	54	P17/$\overline{IRQ3}$/TRGV	I/O	7-bit I/O port / Interrput request / Trigger input
23	P10/TMOW	I/O	7-bit I/O port	55	PB4/AN4	I/O	8-bit I/O port / Analog input
24	P11	I/O		56	PB5/AN5	I/O	
25	P12	I/O		57	PB6/AN6	I/O	
26	SDA	I/O	IIC data I/O pin	58	PB7/AN7	I/O	
27	SCL	I/O		59	PB3/AN3	I/O	
28	P74/TMRIV	I/O	3-bit I/O port / Timer	60	PB2/AN2	I/O	
29	P75/TMCIV	I/O		61	PB1/AN1	I/O	
30	P76/TMOV	I/O		62	PB0/AN0	I/O	
31	NC		Not used	63	NC		Not used
32	NC			64	NC		

• AK5381VT-E2 (X5219A0R) ADC (Analog to Digital Converter)

DM: IC952

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	AINR	I	Rch Analog input pin	9	SDTO	O	Audio serial data output pin
2	AINL	I	Lch Analog input pin	10	LRCK	I/O	Output channel clock pin
3	CKS1	I	Mode select 1 pin	11	MCLK	I	Master clock input pin
4	VCOM	O	Common voltage output pin	12	SCLK	I/O	Audio serial data clock pin
5	AGND	-	Analog ground	13	PDN	I	Power down mode pin
6	VA	-	Analog power supply	14	DIF	I	Audio interface format pin
7	VD	-	Digital power supply	15	CKS2	I	Mode select 2 pin
8	DGND	-	Digital ground	16	CKS0	I	Mode select 0 pin

• M34519M6-521FP (X5646201) CPLD (Complex Programmable Logic Device)

PNL: IC2, 3
PNR: IC2, 3

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	P13	I/O	Port P1 serves as a 4-bit I/O port	22	VDD	–	Power supply +5V
2	D0	I/O	Each pin of port D has an independent 1-bit wide I/O function	23	VDCE	I	This pin is used to operate/stop the voltage drop detection circuit
3	D1	I/O		24	P30/INT0	I/O	Port P3 serves as a 4-bit I/O port / INT0 pin and INT1 pin accept external interrupts
4	D2	I/O		25	P31/INT1	I/O	
5	D3	I/O		26	P32	I/O	Port P3 serves as a 4-bit I/O port
6	D4	I/O		27	P33	I/O	
7	D5	I/O		28	P60/AIN0	I/O	Port P6 serves as a 4-bit I/O port / A/D converter analog input pins
8	D6/CNTR0	I/O	Each pin of port D has an independent 1-bit wide I/O function / CNTR0	29	P61/AIN1	I/O	
9	D7/CNTR1	I/O	Each pin of port D has an independent 1-bit wide I/O function / CNTR1	30	P62/AIN2	I/O	
10	P50	I/O	Port P5 serves as a 4-bit I/O port	31	P63/AIN3	I/O	
11	P51	I/O		32	P40/AIN4	I/O	Port P4 serves as a 4-bit I/O port / A/D converter analog input pins
12	P52	I/O		33	P41/AIN5	I/O	
13	P53	I/O		34	P42/AIN6	I/O	
14	P20/SCK	I/O	Port P2 serves as a 3-bit I/O port / Serial I/O data transfer synchronous clock I/O pin	35	P43/AIN7	I/O	
15	P21/SOUT	I/O	Port P2 serves as a 3-bit I/O port / Serial I/O data output pin	36	P00	I/O	Port P0 serves as a 4-bit I/O port
16	P22/SIN	I/O	Port P2 serves as a 3-bit I/O port / Serial I/O data input pin	37	P01	I/O	
17	$\overline{\text{RESET}}$	I/O	An N-channel open-drain I/O pin for a system reset	38	P02	I/O	
18	CNVSS	–	Connect CNVSS to VSS and apply "L" (0V) to CNVSS certainly	39	P03	I/O	
19	XOUT	O	I/O pins of the main clock generating circuit	40	P10	I/O	Port P1 serves as a 4-bit I/O port
20	XIN	I		41	P11	I/O	
21	VSS	–	Ground	42	P12	I/O	

• FIN1216MTDX (YC492A00) LVDS SERIALIZER/DE-SERIALIZER

LCL: IC101

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	RxOut17	O	LVTTL level data output	25	GND	I	Ground pin for LVTTL outputs
2	RxOut18	O		26	RxOut1	O	LVTTL level data output
3	GND	I	Ground pin for LVTTL outputs	27	RxOut2	O	
4	RxOut19	O	LVTTL level data output	28	VCC	I	Power supply pin for LVTTL outputs
5	RxOut20	O		29	RxOut3	O	LVTTL level data output
6	N.C.		Not connected	30	RxOut4	O	
7	LVDS GND	I	Ground pin for LVDS inputs	31	RxOut5	O	
8	RxIn0-	I	Negative LVDS differential data input	32	GND	I	Ground pin for LVTTL outputs
9	RxIn0+	I	Positive LVDS differential data input	33	RxOut6	O	LVTTL level data output
10	RxIn1-	I	Negative LVDS differential data input	34	RxOut7	O	
11	RxIn1+	I	Positive LVDS differential data input	35	RxOut8	O	
12	LVDS VCC	I	Power supply pin for LVDS inputs	36	VCC	I	Power supply pin for LVTTL outputs
13	LVDS GND	I	Ground pin for LVDS inputs	37	RxOut9	O	LVTTL level data output
14	RxIn2-	I	Negative LVDS differential data input	38	GND	I	Ground pin for LVTTL outputs
15	RxIn2+	I	Positive LVDS differential data input	39	RxOut10	O	LVTTL level data output
16	RxCLKIn-	I	Negative LVDS differential clock input	40	RxOut11	O	
17	RxCLKIn+	I	Positive LVDS differential clock input	41	RxOut12	O	
18	LVDS GND	I	Ground pin for LVDS inputs	42	VCC	I	Power supply pin for LVTTL outputs
19	PLL GND	I	Ground pin for PLL	43	RxOut13	O	LVTTL level data output
20	PLL VCC	I	Power supply pin for PLL	44	GND	I	Ground pin for LVTTL outputs
21	PLL GND	I	Ground pin for PLL	45	RxOut14	O	LVTTL level data output
22	PwrDn	I	LVTTL level input	46	RxOut15	O	
23	RxCLKOut	O	LVTTL clock output	47	RxOut16	O	
24	RxOut0	O	LVTTL level data output	48	VCC	I	Power supply pin for LVTTL outputs

● YGV628B-VZ (X6356B00) RGB CONTROLLER AVDP7

DM: IC603

PIN NO.	NAME	I/O	FUNCTION
1	A23	I	CPU address bus
2	A22	I	
3	A21	I	
4	A20	I	
5	VDD	-	Digital power supply +3.3 V
6	A19	I	CPU address bus
7	VSS	-	Digital ground
8	A18	I	CPU address bus
9	A17	I	
10	A16	I	
11	A15	I	
12	A14	I	
13	A13	I	
14	A12	I	
15	A11	I	
16	A10	I	
17	A9	I	
18	A8	I	
19	VDD	-	Digital power supply +3.3 V
20	VSS	-	Digital ground
21	A7	I	CPU address bus
22	A6	I	
23	A5	I	
24	A4	I	
25	A3	I	
26	A2	I	
27	A1	I	
28	WRH_N	I	Write strobe input
29	WRL_N	I	
30	RD_N	I	Read pulse input
31	RESET_N	I	Reset input
32	VSS	-	Digital ground
33	CS_N	I	Chip select
34	VDD	-	Digital power supply +3.3 V
35	DREQ_N	O	Direct memory access
36	INT_N	O	Interrupt
37	READY_N	O	CPU bus ready
38	WAIT_N	O	CPU bus wait
39	D15	I/O	CPU data bus
40	D14	I/O	
41	D13	I/O	
42	D12	I/O	
43	VSS	-	Digital ground
44	D11	I/O	CPU data bus
45	D10	I/O	
46	VDD	-	Digital power supply +3.3 V
47	D9	I/O	CPU data bus
48	D8	I/O	
49	D7	I/O	
50	D6	I/O	
51	D5	I/O	
52	D4	I/O	
53	VSS	-	Digital ground
54	D3	I/O	CPU data bus
55	D2	I/O	
56	D1	I/O	
57	D0	I/O	
58	VDD	-	Digital power supply +3.3 V
59	SDQ0	I/O	Video memory data bus
60	SDQ15	I/O	
61	VSS	-	Digital ground
62	SDQ1	I/O	Video memory data bus
63	SDQ14	I/O	
64	SDQ2	I/O	
65	SDQ13	I/O	
66	SDQ3	I/O	
67	VSS	-	Digital ground
68	SDQ12	I/O	Video memory data bus
69	VDD	-	Digital power supply +3.3 V
70	SDQ4	I/O	Video memory data bus
71	SDQ11	I/O	
72	SDQ5	I/O	
73	SDQ10	I/O	
74	VSS	-	Digital ground
75	SDQ6	I/O	Video memory data bus
76	SDQ9	I/O	
77	SDQ7	I/O	
78	SDQ8	I/O	
79	VDD	-	Digital power supply +3.3 V
80	LDQM	O	Video memory data mask output
81	VSS	-	Digital ground
82	WE_N	O	Video memory write enable
83	UDQM	O	Video memory data mask output
84	CAS_N	O	Video memory column address strobe output
85	SDCKOUT	O	Video memory clock output
86	RAS_N	O	Video memory low address strobe output
87	VSS	-	Digital ground
88	SCS_N	O	Video memory chip enable
89	SA13	O	Video memory address bus
90	VDD	-	Digital power supply +3.3 V
91	SA11	O	Video memory address bus
92	SA12	O	
93	SA9	O	
94	SA10	O	
95	SA8	O	
96	SA0	O	
97	VSS	-	Digital ground
98	SA1	O	Video memory address bus
99	SA6	O	
100	SA7	O	
101	VDD	-	Digital power supply +3.3 V
102	SA2	O	Video memory address bus
103	SA5	O	
104	SA3	O	
105	SA4	O	
106	VSS	-	Digital ground
107	GCK2OUT	O	Dot clock output 2
108	VDD	-	Digital power supply +3.3 V
109	DRO0	O	Digital R signal output
110	DRO1	O	
111	DRO2	O	
112	DRO3	O	
113	DRO4	O	
114	DRO5	O	
115	DGO0	O	Digital G signal output
116	DGO1	O	
117	VSS	-	Digital ground
118	DGO2	O	Digital G signal output
119	DGO3	O	
120	VDD	-	Digital power supply +3.3 V
121	DGO4	O	Digital G signal output
122	DGO5	O	
123	DBO0	O	Digital B signal output
124	DBO1	O	
125	DBO2	O	
126	DBO3	O	
127	VSS	-	Digital ground
128	DBO4	O	Digital B signal output
129	DBO5	O	
130	YS_N	O	YS signal output
131	BLANK_N	O	Non-display interval output
132	VDD	-	Digital power supply +3.3 V
133	DACVSS	-	DAC analog ground
134	R	O	Analog R signal output
135	G	O	Analog G signal output
136	B	O	Analog B signal output
137	IREF	-	DAC reference electric-current input
138	DACVDD	-	DAC analog power supply +3.3 V
139	TEST2_N	I	Test pin
140	TEST1_N	I	
141	TEST0_N	I	
142	CSYNC_N	O	Horizontal synchronized signal / Compound synchronized signal output
143	VSYNC_N	O	Vertical synchronized signal output
144	GCK1OUT	O	Dot clock output 1
145	VDD	-	Digital power supply +3.3 V
146	GCK2IN	I	Dot clock input 2
147	DRI0	I	Digital R signal input
148	VSS	-	Digital ground
149	DRI1	I	Digital R signal input
150	DRI2	I	
151	DRI3	I	
152	DRI4	I	
153	DRI5	I	
154	DGI0	I	Digital G signal input
155	DGI1	I	
156	DGI2	I	
157	DGI3	I	
158	VDD	-	Digital power supply +3.3 V
159	DGI4	I	Digital G signal input
160	VSS	-	Digital ground
161	DGI5	I	Digital G signal input
162	DBI0	I	Digital B signal input
163	DBI1	I	
164	DBI2	I	
165	DBI3	I	
166	DBI4	I	
167	DBI5	I	
168	HSIN_N	I	Horizontal synchronized signal input
169	VSIN_N	I	Vertical synchronized signal input
170	VDD	-	Digital power supply +3.3 V
171	VSS	-	Digital ground
172	GCK1IN	I	Dot clock input 1
173	SYCKIN	I	System clock input
174	PLLVDD	-	PLL analog power supply +3.3 V
175	PLLVSS	-	PLL analog ground
176	FILTER	-	Filter connect pin for PLL

● **MB87S1280** (X6363A00) **SSP1**

DM: IC902

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	WAITN	O	Wait for external CPU	105	MD[7]	I/O	Data bus(ARM,DSP -> memory)
2	IRQN_OUT	O	Output of interrupt information	106	MD[6]	I/O	Data bus(ARM,DSP -> memory)
3	VSS	-	VSS	107	VSS	-	VSS
4	VDDE	-	VDDE +3.3V	108	MD[5]	I/O	
5	SCANSW[4]	O		109	MD[4]	I/O	
6	SCANSW[3]	O		110	MD[3]	I/O	Data bus(ARM,DSP -> memory)
7	SCANSW[2]	O	Scan control	111	MD[2]	I/O	
8	SCANSW[1]	O		112	MD[1]	I/O	
9	SCANSW[0]	O		113	MD[0]	I/O	
10	VSS	-	VSS	114	VDDE	-	VDDE +3.3V
11	VDDI	-	VDDI +1.8V	115	MD[15]	I/O	
12	ADVDD	-	ADVDD 3.3V	116	MD[14]	I/O	Data bus(ARM,DSP -> memory)
13	ADVSS	-	ADVSS	117	MD[13]	I/O	
14	VRL	I	ADC reference voltage	118	MD[12]	I/O	
15	VREF	I	ADC reference voltage	119	VSS	-	VSS
16	ANPORT[3]	I		120	MD[11]	I/O	
17	ANPORT[2]	I		121	MD[10]	I/O	Data bus(ARM,DSP -> memory)
18	ANPORT[1]	I	ADC analog input	122	MD[9]	I/O	
19	ANPORT[0]	I		123	VDDI	-	VDDI +1.8V
20	VRH	I	ADC reference voltage	124	MD[8]	I/O	Data bus(ARM,DSP -> memory)
21	VDDE	-	VDDE +3.3V	125	MA[12]	O	
22	IRQN_IN	I	Interrupt input	126	MA[10]	O	Memory addres bus
23	ARMSTOP	I	ARM stop	127	MA[9]	O	
24	VSS	-	VSS	128	MA[8]	O	
25	XI	I	Crystal oscillator(input)	129	VDDE	-	VDDE +3.3V
26	VSS	-	VSS	130	VSS	-	VSS
27	VDDI	-	VDDI +1.8V	131	VDDI	-	VDDI +1.8V
28	XO	I/O	Crystal oscillator(output)	132	MA[7]	O	
29	TESTN	I	Test pin	133	MA[6]	O	
30	VDDE	-	VDDE +3.3V	134	MA[5]	O	Memory addres bus
31	PLVDD	-	PLVDD +1.8V	135	MA[13]	O	
32	PLVSS	-	PLVSS	136	MA[14]	O	
33	PLLBPN	I	Switch of PLL and XI	137	MA[11]	O	
34	VDDI	-	VDDI +1.8V	138	VDDI	-	VDDI +1.8V
35	ACLK	I/O	ABUS clock	139	MA[1]	O	
36	AFRM	I/O	ABUS frame	140	MA[2]	O	Memory addres bus
37	ADIR	O	ABUS directon	141	MA[3]	O	
38	VSS	-	VSS	142	VSS	-	VSS
39	ADAT[0]	I/O		143	MA[4]	O	
40	ADAT[1]	I/O		144	MA[18]	O	Memory addres bus
41	ADAT[2]	I/O	ABUS data bus	145	MA[19]	O	
42	ADAT[3]	I/O		146	MA[17]	O	
43	VDDE	-	VDDE +3.3V	147	VDDE	-	VDDE +3.3V
44	ADAT[4]	I/O		148	MA[16]	O	
45	ADAT[5]	I/O		149	MA[15]	O	Memory addres bus
46	ADAT[6]	I/O		150	MA[20]	O	
47	ADAT[7]	I/O	ABUS data bus	151	CS0N	O	
48	ADAT[8]	I/O		152	CS2N	O	Chip Select
49	ADAT[9]	I/O		153	CS3N	O	
50	VSS	-	VSS	154	VSS	-	VSS
51	ADAT1[0]	I/O		155	CS4N	O	Chip Select
52	ADAT[11]	I/O		156	EA[1]	I	
53	ADAT[12]	I/O		157	EA[2]	I	
54	ADAT[13]	I/O	ABUS data bus	158	EA[3]	I	
55	ADAT[14]	I/O		159	EA[4]	I	
56	ADAT[15]	I/O		160	EA[5]	I	External Address bus / GPIO
57	DITO	O	DIT output	161	EA[6]	I	
58	SYSCLK	O	System clock	162	EA[7]	I	
59	SYO	O	External synchronization	163	EA[8]	I	
60	VSS	-	VSS	164	VSS	-	VSS
61	VDDE	-	VDDE +3.3V	165	VDDE	-	VDDE +3.3V
62	BCLK	O	Bit clock of SDI, SDO	166	EA[9]	I	
63	WCLK0	O	Word clock of SDI, SDO	167	EA[10]	I	
64	SDO[0]	O		168	EA[11]	I	
65	SDO[1]	O		169	EA[12]	I	External Address bus / GPIO
66	SDO[2]	O		170	EA[13]	I	
67	SDO[3]	O		171	EA[14]	I	
68	SDO[4]	O	Serial audio output	172	ECSN	I	External chip select
69	SDO[5]	O		173	ERDN	I	External read
70	SDO[6]	O		174	EWRN	I	External write
71	SDO[7]	O		175	ED[0]	I/O	External Data bus / GPIO
72	VSS	-	VSS	176	VSS	-	VSS
73	VDDI	-	VDDI +1.8V	177	VDDI	-	VDDI +1.8V
74	MUTEN	I	Audio mute	178	ED[1]	I/O	
75	SDI[0]	I		179	ED[2]	I/O	
76	SDI[1]	I		180	ED[3]	I/O	External Data bus / GPIO
77	SDI[2]	I	Serial audio input	181	ED[4]	I/O	
78	SDI[3]	I		182	ED[5]	I/O	
79	VDDI	-	VDDI +1.8V	183	VDDI	-	VDDI +1.8V
80	SDI[4]	I		184	ED[6]	I/O	
81	SDI[5]	I	Serial audio input	185	ED[7]	I/O	
82	SDI[6]	I		186	ED[8]	I/O	External Data bus / GPIO
83	VDDE	-	VDDE +3.3V	187	ED[9]	I/O	
84	EXCLK	I	External synchronization clock	188	ED[10]	I/O	
85	VSS	-	VSS	189	VSS	-	VSS
86	VDDI	-	VDDI +1.8V	190	VDDI	-	VDDI +1.8V
87	SDI[7]	I		191	ED[11]	I/O	
88	SDI[8]	I		192	ED[12]	I/O	
89	SDI[9]	I	Serial audio input	193	ED[13]	I/O	External Data bus / GPIO
90	SDI[10]	I		194	ED[14]	I/O	
91	SDI[11]	I		195	ED[15]	I/O	
92	SYI	I	External synchronization input	196	VDDE	-	VDDE +3.3V
93	VPD	I	Test pin	197	TCK	I	JTAG clock
94	VSS	-	VSS	198	TMS	I	JTAG mode
95	RCLKI	I	SDRAM clock	199	TRST	I	JTAG reset
96	VSS	-	VSS	200	VSS	-	VSS
97	VDDE	-	VDDE +3.3V	201	VDDE	-	VDDE +3.3V
98	RCLK	O	SDRAM clock	202	ICN	I	Initial clear
99	VSS	-	VSS	203	TDI	I	JTAG input
100	RDN	O	External memory read	204	TDO	O	JTAG output
101	WRN	O	External memory write	205	TXD0	O	Serial output 0
102	UBN	O	RAM enable(Upper Byte)	206	RXD0	I	Serial input 0
103	LBN	O	RAM enable(Lower Byte)	207	TXD1	O	Serial output 1
104	VDDE	-	VDDE +3.3V	208	RXD1	I	Serial input 1

● ISP1760BE (X8288A00) USB2.0 HOST CONTROLLER

DM: IC500

PIN No.	NAME	I/O	FUNCTION	PIN No.	NAME	I/O	FUNCTION
1	OC3_N	I	Port 3 analog (5 V input) and digital overcurrent input	65	DATA20	I/O	Data bit 20 input and output
2	REF5V	I	5 V reference input for analog OC detector	66	DATA21	I/O	Data bit 21 input and output
3	TEST		Connect to ground	67	$V_{CC(I/O)}$		Digital supply
4	GND		Analog ground	68	DATA22	I/O	Data bit 22 input and output
5	$V_{REG(1V8)}$	O	Core power output (1.8 V)	69	DATA23	I/O	Data bit 23 input and output
6	$V_{CC(5V0)}$	I	Input to internal regulators (3.0 V to 5.5 V)	70	DATA24	I/O	Data bit 24 input and output
7	$V_{CC(5V0)}$	I		71	GND		Digital ground
8	GND		Oscillator ground	72	DATA25	I/O	Data bit 25 input and output
9	$V_{REG(3V3)}$	O	Regulator output (3.3 V)	73	DATA26	I/O	Data bit 26 input and output
10	$V_{CC(I/O)}$		Digital supply	74	DATA27	I/O	Data bit 27 input and output
11	XTAL1	I	12 MHz crystal connection input	75	$V_{CC(I/O)}$		Digital supply
12	XTAL2	O	12 MHz crystal connection output	76	DATA28	I/O	Data bit 28 input and output
13	CLKIN	I	12 MHz oscillator or clock input	77	DATA29	I/O	Data bit 29 input and output
14	GND		Digital ground	78	DATA30	I/O	Data bit 30 input and output
15	GND		RREF1 ground	79	GND		Digital ground
16	RREF1	I	Reference resistor connection	80	DATA31	I/O	Data bit 31 input and output
17	GND		Analog ground for port 1	81	TEST		Connect to ground
18	DM1	I/O	Downstream data minus port 1	82	A1	I	Address pin 1
19	GND		Analog ground	83	$V_{CC(I/O)}$		Digital supply
20	DP1	I/O	Downstream data plus port 1	84	A2	I	Address pin 2
21	PSW1_N	O	Power switch port 1	85	$V_{REG(1V8)}$	O	Core power output (1.8 V)
22	GND		RREF2 ground	86	A3	I	Address pin 3
23	RREF2	I	Reference resistor connection	87	A4	I	Address pin 4
24	GND		Analog ground for port 2	88	GND		Core ground
25	DM2	I/O	Downstream data minus port 2	89	A5	I	Address pin 5
26	GND		Analog ground	90	GND		Digital ground
27	DP2	I/O	Downstream data plus port 2	91	A6	I	Address pin 6
28	PSW2_N	O	Power switch port 2	92	A7	I	Address pin 7
29	GND		RREF3 ground	93	A8	I	Address pin 8
30	RREF3	I	Reference resistor connection	94	$V_{CC(I/O)}$		Digital supply
31	GND		Analog ground for port 3	95	A9	I	Address pin 9
32	DM3	I/O	Downstream data minus port 3	96	A10	I	Address pin 10
33	GND		Analog ground	97	A11	I	Address pin 11
34	DP3	I/O	Downstream data plus port 3	98	A12	I	Address pin 12
35	PSW3_N	O	Power switch port 3	99	GND		Digital ground
36	GND		Digital ground	100	A13	I	Address pin 13
37	DATA0	I/O	Data bit 0 input and output	101	A14	I	Address pin 14
38	DATA1	I/O	Data bit 1 input and output	102	A15	I	Address pin 15
39	DATA2	I/O	Data bit 2 input and output	103	A16	I	Address pin 16
40	$V_{CC(I/O)}$		Digital supply	104	$V_{CC(I/O)}$		Digital voltage
41	DATA3	I/O	Data bit 3 input and output	105	A17	I	Address pin 17
42	DATA4	I/O	Data bit 4 input and output	106	CS_N	I	Chip select signal that indicates the area being accessed
43	DATA5	I/O	Data bit 5 input and output	107	RD_N	I	Read enable
44	GND		Digital ground	108	WR_N	I	Write enable
45	DATA6	I/O	Data bit 6 input and output	109	GND		Digital ground
46	DATA7	I/O	Data bit 7 input and output	110	$V_{BAT_ON_N}$	O	To indicate the presence of a minimum 3.3 V on pins 6 and 7 (open-drain)
47	DATA8	I/O	Data bit 8 input and output	111	N. C.		Not connected
48	$V_{CC(I/O)}$		Digital supply	112	IRQ	O	Host Controller interrupt signal
49	DATA9	I/O	Data bit 9 input and output	113	N. C.		Not connected
50	$V_{REG(1V8)}$	O	Core power output (1.8 V)	114	DREQ	O	DMAC request for the Host Controller
51	DATA10	I/O	Data bit 10 input and output	115	$V_{CC(I/O)}$		Digital voltage
52	DATA11	I/O	Data bit 11 input and output	116	DACK	I	Host Controller DMA request acknowledgment
53	GND		Core ground	117	TEST		Connect to ground
54	DATA12	I/O	Data bit 12 input and output	118	$V_{REG(1V8)}$	O	Core power output (1.8 V)
55	GND		Digital ground	119	$SUSPEND/WAKEUP_N$	I/O	Host Controller suspend and wake-up
56	DATA13	I/O	Data bit 13 input and output	120	TEST		Pull up to VCC(I/O)
57	DATA14	I/O	Data bit 14 input and output	121	GND		Core ground
58	DATA15	I/O	Data bit 15 input and output	122	RESET_N	I	External power-up reset
59	$V_{CC(I/O)}$		Digital supply	123	GND		Analog ground
60	DATA16	I/O	Data bit 16 input and output	124	TEST		Connect a 220 nF capacitor between this pin and pin 125.
61	DATA17	I/O	Data bit 17 input and output	125	TEST		Connect a 220 nF capacitor between this pin and pin 124.
62	DATA18	I/O	Data bit 18 input and output	126	TEST		Connect to 3.3 V
63	GND		Digital ground	127	OC1_N	I	Port 1 analog (5 V input) and digital overcurrent input
64	DATA19	I/O	Data bit 19 input and output	128	OC2_N	I	Port 2 analog (5 V input) and digital overcurrent input

● **T6TJ3XBG-0001** (X8940A00) **SWP51L** (Tone Generator)

DM: IC700, 701

PIN NO.	OUTER NO.	NAME	I/O	FUNCTION	PIN NO.	OUTER NO.	NAME	I/O	FUNCTION
1	A1	VSS	-	Ground	98	D20	VDDC	-	Power supply +1.5 V
2	A2	VSS	-		99	D21	VDDC	-	
3	A3	HRD2	I/O	DRAM data bus	100	D22	VSS	-	Ground
4	A4	HRD0	I/O		101	D23	VSS	-	
5	A5	HRD9	I/O		102	D24	CD14	I/O	Data bus of internal register
6	A6	HRD11	I/O		103	D25	CD13	I/O	
7	A7	HRD13	I/O		104	D26	CD12	I/O	
8	A8	HRD15	I/O		105	E1	ACLK	I/O	Clock signal (ABUS)
9	A9	RA1	O	DRAM address bus	106	E2	ADIR	O	Direction signal (ABUS)
10	A10	RA3	O		107	E3	ADAT15	I/O	Data bus (ABUS)
11	A11	RA5	O		108	E4	VSS	-	Ground
12	A12	RA7	O		109	E23	VSS	-	
13	A13	RA9	O		110	E24	CD11	I/O	Data bus of internal register
14	A14	RCLK	O	SDRAM clock signal	111	E25	CD10	I/O	
15	A15	RRAS	O	DRAM row address strobe (RAS signal)	112	E26	CD9	I/O	
16	A16	RWEN	O	DRAM write enable	113	F1	MELI7	I	MEL wave data input
17	A17	LRD8	I/O	DRAM data bus (Lower data)	114	F2	DITo	O	Digital audio output
18	A18	LRD10	I/O		115	F3	AFRM	I/O	Frame signal (ABUS)
19	A19	LRD12	I/O		116	F4	VDDC	-	Power supply +1.5 V
20	A20	LRD14	I/O		117	F23	VDDS	-	Power supply +3.3 V
21	A21	LRD7	I/O		118	F24	CD8	I/O	Data bus of internal register
22	A22	LRD5	I/O		119	F25	CD7	I/O	
23	A23	LRD3	I/O		120	F26	CD6	I/O	
24	A24	LRD1	I/O		121	G1	MELI4	I	MEL wave data input
25	A25	VSS	-	Ground	122	G2	MELI5	I	
26	A26	VSS	-		123	G3	MELI6	I	
27	B1	VSS	-		124	G4	VDDC	-	Power supply +1.5 V
28	B2	VSS	-		125	G23	VDDS	-	Power supply +3.3 V
29	B3	HRD3	I/O	DRAM data bus	126	G24	CD5	I/O	Data bus of internal register
30	B4	HRD1	I/O		127	G25	CD4	I/O	
31	B5	HRD8	I/O		128	G26	CD3	I/O	
32	B6	HRD10	I/O		129	H1	MELI1	I	MEL wave data input
33	B7	HRD12	I/O		130	H2	MELI2	I	
34	B8	HRD14	I/O		131	H3	MELI3	I	
35	B9	RA0	O	DRAM address bus	132	H4	VDDC	-	Power supply +1.5 V
36	B10	RA2	O		133	H23	VDDS	-	Power supply +3.3 V
37	B11	RA4	O		134	H24	CD2	I/O	Data bus of internal register
38	B12	RA6	O		135	H25	CD1	I/O	
39	B13	RA8	O		136	H26	CD0	I/O	
40	B14	RCLKE	O	SDRAM clock enable	137	J1	BCLK	O	Master clock (64 Fs)
41	B15	RCAS	O	DRAM column address strobe (CAS signal)	138	J2	ADLR	O	For ADC word clock
42	B16	RQML	O	MASK signal (SDRAM)	139	J3	MELI0	I	MEL wave data input
43	B17	LRD9	I/O	DRAM data bus (Lower data)	140	J4	VDDC	-	Power supply +1.5 V
44	B18	LRD11	I/O		141	J23	VDDS	-	Power supply +3.3 V
45	B19	LRD13	I/O		142	J24	CA0	I	Address bus of internal register
46	B20	LRD15	I/O		143	J25	CA1	I	
47	B21	LRD6	I/O		144	J26	CA2	I	
48	B22	LRD4	I/O		145	K1	WCLK0	O	For DAC word clock
49	B23	LRD2	I/O		146	K2	CK512	O	Master clock (512 Fs)
50	B24	LRD0	I/O		147	K3	CK128	O	Master clock (256 Fs)
51	B25	VSS	-	Ground	148	K4	VDDC	-	Power supply +1.5 V
52	B26	VSS	-		149	K23	VDDS	-	Power supply +3.3 V
53	C1	HRD5	I/O	DRAM data bus	150	K24	CA3	I	Address bus of internal register
54	C2	HRD4	I/O		151	K25	CA4	I	
55	C3	VSS	-	Ground	152	K26	CA5	I	
56	C4	ADAT13	I/O	Data bus (ABUS)	153	L1	MELO6	O	MEL wave data output
57	C5	ADAT12	I/O		154	L2	MELO7	O	
58	C6	ADAT11	I/O		155	L3	WCLK1	O	For DAC word clock
59	C7	ADAT10	I/O		156	L4	VDDC	-	Power supply +1.5 V
60	C8	ADAT9	I/O		157	L11	VSS	-	Ground
61	C9	ADAT8	I/O		158	L12	VSS	-	
62	C10	ADAT7	I/O		159	L13	VSS	-	
63	C11	RA10	O	DRAM address bus	160	L14	VSS	-	
64	C12	RA11	O		161	L15	VSS	-	
65	C13	RA12	O		162	L16	VSS	-	
66	C14	RA13	O		163	L23	VDDS	-	Power supply +3.3 V
67	C15	RQMH	O	MASK signal (SDRAM)	164	L24	CA6	I	Address bus of internal register
68	C16	RCLKIN	I	SDRAM, DRAM clock input	165	L25	CA7	I	
69	C17	ADAT6	I/O	Data bus (ABUS)	166	L26	CA8	I	
70	C18	ADAT5	I/O		167	M1	MELO3	O	MEL wave data output
71	C19	ADAT4	I/O		168	M2	MELO4	O	
72	C20	ADAT3	I/O		169	M3	MELO5	O	
73	C21	ADAT2	I/O		170	M4	VDDC	-	Power supply +1.5 V
74	C22	ADAT1	I/O		171	M11	VSS	-	Ground
75	C23	ADAT0	I/O		172	M12	VSS	-	
76	C24	VSS	-	Ground	173	M13	VSS	-	
77	C25	VSS	-		174	M14	VSS	-	
78	C26	CD15	I/O	Data bus of internal register	175	M15	VSS	-	
79	D1	HRD7	I/O	DRAM data bus	176	M16	VSS	-	
80	D2	HRD6	I/O		177	M23	VDDS	-	Power supply +3.3 V
81	D3	ADAT14	I/O	Data bus (ABUS)	178	M24	CA9	I	Address bus of internal register
82	D4	VSS	-	Ground	179	M25	CA10	I	
83	D5	VSS	-		180	M26	CA11	I	
84	D6	VDDS	-	Power supply +3.3 V	181	N1	MELO0	O	MEL wave data output
85	D7	VDDS	-		182	N2	MELO1	O	
86	D8	VDDS	-		183	N3	MELO2	O	
87	D9	VDDS	-		184	N4	VDDC	-	Power supply +1.5 V
88	D10	VDDS	-		185	N11	VSS	-	Ground
89	D11	VDDS	-		186	N12	VSS	-	
90	D12	VDDS	-		187	N13	VSS	-	
91	D13	VDDS	-		188	N14	VSS	-	
92	D14	VDDC	-	Power supply +1.5 V	189	N15	VSS	-	
93	D15	VDDC	-		190	N16	VSS	-	
94	D16	VDDC	-		191	N23	PLL_AVS	-	Analog ground (PLL)
95	D17	VDDC	-		192	N24	CA12	I	Address bus of internal register
96	D18	VDDC	-		193	N25	CA13	I	
97	D19	VDDC	-		194	N26	CA14	I	

PIN NO.	OUTER NO.	NAME	I/O	FUNCTION
195	P1	LMD11	I/O	Wave memory data bus (Lower 16 bit)
196	P2	LMD4	I/O	
197	P3	LMD3	I/O	
198	P4	VDDS	-	Power supply +3.3 V
199	P11	VSS	-	Ground
200	P12	VSS	-	
201	P13	VSS	-	
202	P14	VSS	-	
203	P15	VSS	-	
204	P16	VSS	-	
205	P23	PLL_AVD	-	Analog power supply +1.5 V (PLL)
206	P24	CA15	I	Address bus of internal register
207	P25	XI	I	Crystal oscillator input
208	P26	XO	O	Crystal oscillator output
209	R1	LMD12	I/O	Wave memory data bus (Lower 16 bit)
210	R2	LMD10	I/O	
211	R3	LMD5	I/O	
212	R4	VDDS	-	Power supply +3.3 V
213	R11	VSS	-	Ground
214	R12	VSS	-	
215	R13	VSS	-	
216	R14	VSS	-	
217	R15	VSS	-	
218	R16	VSS	-	
219	R23	VDDC	-	Power supply +1.5 V
220	R24	PLL_TSTN	I	Test pin
221	R25	RFCLKi	I	PLL Clock
222	R26	RFCLKo	O	
223	T1	LMD2	I/O	Wave memory data bus (Lower 16 bit)
224	T2	LMD13	I/O	
225	T3	LMD6	I/O	
226	T4	VDDS	-	Power supply +3.3 V
227	T11	VSS	-	Ground
228	T12	VSS	-	
229	T13	VSS	-	
230	T14	VSS	-	
231	T15	VSS	-	
232	T16	VSS	-	
233	T23	VDDC	-	Power supply +1.5 V
234	T24	CSN1	I	Chip select
235	T25	CSN0	I	
236	T26	PLL_BP	I	Test pin
237	U1	LMD9	I/O	Wave memory data bus (Lower 16 bit)
238	U2	LMD14	I/O	
239	U3	LMD1	I/O	
240	U4	VDDS	-	Power supply +3.3 V
241	U23	VDDC	-	Power supply +1.5 V
242	U24	TRST	I	Test pin
243	U25	RDN	I	Read strobe
244	U26	WRN	I	Write strobe
245	V1	LMD7	I/O	Wave memory data bus (Lower 16 bit)
246	V2	LMD8	I/O	
247	V3	LMD15	I/O	
248	V4	VDDS	-	Power supply +3.3 V
249	V23	VDDC	-	Power supply +1.5 V
250	V24	TCK	I	Test pin
251	V25	DREQo	O	DMA request
252	V26	WAITo	O	Hardware wait request
253	W1	LMD0	I/O	Wave memory data bus (Lower 16 bit)
254	W2	LMA30	O	Wave memory address bus (Lower data memory)
255	W3	LMA29	O	
256	W4	VDDS	-	Power supply +3.3 V
257	W23	VDDC	-	Power supply +1.5 V
258	W24	TMS	I	Test pin
259	W25	SLAVE	I	Master/Slave select
260	W26	IRQo	O	Interrupt request
261	Y1	LMA28	O	Wave memory address bus (Lower data memory)
262	Y2	LMA27	O	
263	Y3	LMA26	O	
264	Y4	VDDS	-	Power supply +3.3 V
265	Y23	VDDC	-	Power supply +1.5 V
266	Y24	TDI	I	Test pin
267	Y25	KONTRGi	I	Key on data
268	Y26	ICN	I	Initial clear
269	AA1	LMA25	O	Wave memory address bus (Lower data memory)
270	AA2	LMA0	O	
271	AA3	LMA24	O	
272	AA4	VDDS	-	Power supply +3.3 V
273	AA23	VDDC	-	Power supply +1.5 V
274	AA24	TDO	O	Test pin
275	AA25	EIRQ	O	E bus interrupt request
276	AA26	KONTRGo	O	Key on data
277	AB1	LMA22	O	Wave memory address bus (Lower data memory)
278	AB2	LMA23	O	
279	AB3	LMA21	O	
280	AB4	VSS	-	Ground
281	AB23	VSS	-	
282	AB24	TMODE	I	Test pin
283	AB25	ESDA	I/O	E bus data
284	AB26	EICN	O	E bus initial clear
285	AC1	LMA1	O	Wave memory address bus (Lower data memory)
286	AC2	LMA20	O	
287	AC3	LMA2	O	
288	AC4	VSS	-	Ground
289	AC5	VSS	-	
290	AC6	VDDC	-	Power supply +1.5 V
291	AC7	VDDC	-	
292	AC8	VDDC	-	Power supply +1.5 V
293	AC9	VDDC	-	
294	AC10	VDDC	-	
295	AC11	VDDC	-	
296	AC12	VDDC	-	
297	AC13	VDDC	-	
298	AC14	VDDS	-	Power supply +3.3 V
299	AC15	VDDS	-	
300	AC16	VDDS	-	
301	AC17	VDDS	-	
302	AC18	VDDS	-	
303	AC19	VDDS	-	
304	AC20	VDDS	-	
305	AC21	VDDS	-	
306	AC22	VSS	-	Ground
307	AC23	VSS	-	
308	AC24	TEST1	I	Test pin
309	AC25	SYI	I	Synchronous clock
310	AC26	ESCL	I/O	E bus clock
311	AD1	LMA19	O	Wave memory address bus (Lower data memory)
312	AD2	LMA3	O	
313	AD3	VSS	-	Ground
314	AD4	LMA17	O	Wave memory address bus (Lower data memory)
315	AD5	LMA6	O	
316	AD6	LMA8	O	
317	AD7	LMA13	O	
318	AD8	LMA11	O	
319	AD9	HMD11	I/O	Wave memory data bus (Upper data memory)
320	AD10	HMD12	I/O	
321	AD11	HMD2	I/O	
322	AD12	HMD9	I/O	
323	AD13	HMD7	I/O	
324	AD14	HMA29	O	Wave memory address bus (Upper data memory)
325	AD15	HMA26	O	
326	AD16	HMA24	O	
327	AD17	HMA21	O	
328	AD18	HMA2	O	
329	AD19	HMA18	O	
330	AD20	HMA5	O	
331	AD21	HMA7	O	
332	AD22	HMA14	O	
333	AD23	HMA10	O	
334	AD24	VSS	-	Ground
335	AD25	VSS	-	
336	AD26	SYO	O	Synchronous clock
337	AE1	VSS	-	Ground
338	AE2	VSS	-	
339	AE3	LMA18	O	Wave memory address bus (Lower data memory)
340	AE4	LMA5	O	
341	AE5	LMA7	O	
342	AE6	LMA14	O	
343	AE7	LMA10	O	
344	AE8	MWEN	O	Wave memory write enable
345	AE9	HMD4	I/O	Wave memory data bus (Upper data memory)
346	AE10	HMD10	I/O	
347	AE11	HMD13	I/O	
348	AE12	HMD14	I/O	
349	AE13	HMD8	I/O	
350	AE14	HMA30	O	Wave memory address bus (Upper data memory)
351	AE15	HMA27	O	
352	AE16	HMA0	O	
353	AE17	HMA23	O	
354	AE18	HMA20	O	
355	AE19	HMA3	O	
356	AE20	HMA17	O	
357	AE21	HMA6	O	
358	AE22	HMA8	O	
359	AE23	HMA13	O	
360	AE24	HMA11	O	
361	AE25	VSS	-	Ground
362	AE26	VSS	-	
363	AF1	VSS	-	
364	AF2	VSS	-	
365	AF3	LMA4	O	Wave memory address bus (Lower data memory)
366	AF4	LMA16	O	
367	AF5	LMA15	O	
368	AF6	LMA9	O	
369	AF7	LMA12	O	
370	AF8	MOEN	O	Wave memory output enable
371	AF9	HMD3	I/O	Wave memory data bus (Upper data memory)
372	AF10	HMD5	I/O	
373	AF11	HMD6	I/O	
374	AF12	HMD1	I/O	
375	AF13	HMD15	I/O	
376	AF14	HMD0	I/O	
377	AF15	HMA28	O	Wave memory address bus (Upper data memory)
378	AF16	HMA25	O	
379	AF17	HMA22	O	
380	AF18	HMA1	O	
381	AF19	HMA19	O	
382	AF20	HMA4	O	
383	AF21	HMA16	O	
384	AF22	HMA15	O	
385	AF23	HMA9	O	
386	AF24	HMA12	O	
387	AF25	VSS	-	Ground
388	AF26	VSS	-	

● R8A77310D333BG (YC170A00) MAIN CPU

DM: IC1

PIN NO.	OUTER NO.	NAME	I/O	FUNCTION	PIN NO.	OUTER NO.	NAME	I/O	FUNCTION
1	A1	AV33	I	3.3 V power supply for USB reference power supply circuit Always used	110	E10	VCCQ	I	I/O power supply (3.3V)
2	A2	VSS	I	Ground	111	E11	VCCQ	I	
3	A3	XTAL	O	Clock output	112	E12	VSS	I	Ground
4	A4	EXTAL	I	External clock input	113	E13	VSS	I	
5	A5	PTG3/AUDATA3	I/O	Port / AUD data output	114	E14	VSS	I	
6	A6	AUDCK	O	AUD clock	115	E15	VCCQ	I	
7	A7	TCK	I	H-UDI test clock input	116	E16	VCCQ	I	I/O power supply (3.3V)
8	A8	PTJ6	I/O	Port	117	E17	VCCQ	I	
9	A9	RCLK	I	32.768kHz clock input	118	E18	VCCQ	I	
10	A10	TSTMD	I	Test mode setting	119	E19	VSS	I	Ground
11	A11	MD0	I	Mode setting pin	120	E20	VSS	I	
12	A12	PTS1/SCIF0_RXD	I/O	Port / SCIF receive data	121	E21	VSS	I	
13	A13	PTK4/SIOF1_SYNC	I/O	Port / SIOF1 frame signal	122	E22	PTX1/LCDD19	I/O	Port / LCD data bus
14	A14	PTK1/SIOF1_TXD	I/O	Port / SIOF1 output data	123	E23	PTH1/LCDD17	I/O	
15	A15	PTK0/SIOF1_MCK	I/O	Port / SIOF1 master clock input	124	E24	PTH0/LCDD16	I/O	
16	A16	PTQ4/SIOF0_SYNC	I/O	Port / SIOF frame signal	125	E25	PTL6/LCDD14	I/O	
17	A17	PTF6/SIOMCK	I/O	Port / SIO master clock	126	F1	AG33	I	3.3 V power supply ground for USB reference power supply circuit
18	A18	PTF2/SIOD	I/O	Port / SIO transmit/receive data	127	F2	AG12	I	1.2 V power supply ground for USB-PLL
19	A19	PTD5/SDHID30	I/O	Port / SD data bus	128	F3	UG12	I	1.2 V power supply ground for USB-UTM480
20	A20	PTD1/SDHICMD	I/O	Port / SD command	129	F4	VBUS	I	USB VBUS pin
21	A21	PTR3/CS6B/CE1B/LCDCS2	I/O	Port / Chip select / LCD chip select 2	130	F5	DV33	I	3.3V power supply for USB driver/receiver (3.3V)
22	A22	PTH6/LCDVSYN2/DACK0	I/O	Port / LCD vertical synchronized signal / DMA transfer request acknowledge	131	F21	VSS	I	Ground
23	A23	VDD_PLL	I	PLL power supply	132	F22	PTL7/LCDD15	I/O	Port / LCD data bus
24	A24	VSS_PLL	I	PLL ground	133	F23	PTL4/LCDD12	I/O	
25	A25	VSS	I	Ground	134	F24	PTL3/LCDD11	I/O	
26	B1	AV12	I	1.2V power supply for USB-PLL	135	F25	PTL2/LCDD10	I/O	
27	B2	VSS	I	Ground	136	G1	EXTALUSB	I	48-MHz oscillator connection pin input for USB
28	B3	PTZ1/KEYIN0/IRQ6	I/O	Port / Key input / Interrupt request	137	G2	PTZ3/KEYIN2	I/O	Port / Key input
29	B4	PTJ0/IRQ0	I/O	Port / Interrupt request	138	G3	VSS	I	Ground
30	B5	PTG4/AUDSYNC	I/O	Port / AUD synchronized signal	139	G4	DV12	I	1.2V power supply for USB driver/receiver (1.2V)
31	B6	PTG0/AUDATA0	I/O	Port / AUD data output	140	G5	DV12	I	
32	B7	TDI	I	H-UDI test data input	141	G21	VSS	I	Ground
33	B8	PDSTATUS/PTJ5	I/O	Power-down status output / Port	142	G22	PTX3/LCDD21	I/O	Port / LCD data bus
34	B9	RESETP	I	Power-on reset	143	G23	PTL1/LCDD9	I/O	
35	B10	MD8	I	Mode setting pin	144	G24	PTL0/LCDD8	I/O	
36	B11	MD1	I		145	G25	PTM6/LCDD6	I/O	
37	B12	PTS2/SCIF0_SCK/TPUTO	I/O	Port / SCIF serial clock / TPU output	146	H1	XTALUSB	O	48-MHz oscillator connection pin output for USB
38	B13	PTK5/SIOF1_SS1	I/O	Port / SPI slave device select	147	H2	PTZ5/KEYIN4/IRQ7	I/O	Port / Key input / Interrupt request
39	B14	PTK3/SIOF1_SCK	I/O	Port / SIOF1 serial clock	148	H3	PTZ4/KEYIN3	I/O	Port / Key input
40	B15	PTQ6/SIOF0_SS2/SIM_RST	I/O	Port / SIOF0 slave device select / SIM reset	149	H4	UV12	I	1.2 V power supply for USB-UTM480
41	B16	PTQ1/SIOF0_TXD/SIM_CLK/IrDA_OUT	I/O	Port / SIOF0 transmit data / SIM clock / IrDA transmit data output	150	H5	UV12	I	
					151	H21	VCCQ	I	I/O power supply (3.3 V)
42	B17	PTF4/SIOSTRB1	I/O	Port / SIO serial strobe	152	H22	PTM7/LCDD7	I/O	Port / LCD data bus
43	B18	PTF1/SIORXD	I/O	Port / SIO input data	153	H23	PTM5/LCDD5	I/O	
44	B19	PTD6/SDHIWP	I/O	Port / SD write protect	154	H24	PTM4/LCDD4	I/O	
45	B20	PTD2/SDHID0	I/O	Port / SD data bus	155	H25	PTM3/LCDD3	I/O	
46	B21	WAIT/PTR2	I/O	WAIT / Port	156	J1	PTY1/KEYOUT1	I/O	Port / Key output
47	B22	PTH5/LCDVSYN	I/O	Port / LCD vertical synchronized signal	157	J2	PTY5/KEYOUT5/KEYIN5	I/O	Port / Key output / Key input
48	B23	VSS	I	Ground	158	J3	PTY3/KEYOUT3	I/O	Port / Key output
49	B24	VSS	I		159	J4	PTY2/KEYOUT2	I/O	
50	B25	VSS_DLL	I	DLL ground	160	J5	PTY0/KEYOUT0	I/O	
51	C1	DM	I/O	USB downstream data minus pin	161	J21	VCCQ	I	I/O power supply (3.3 V)
52	C2	VSS	I	Ground	162	J22	PTL5/LCDD13	I/O	Port / LCD data bus
53	C3	PTZ2/KEYIN1	I/O	Port / Key input	163	J23	PTM1/LCDD1	I/O	
54	C4	PTJ1/IRQ1	I/O	Port / Interrupt request	164	J24	PTM2/LCDD2	I/O	
55	C5	MPMD	I	E10 ASE mode set input	165	J25	PTM0/LCDD0	I/O	
56	C6	PTG2/AUDATA2	I/O	Port / AUD data output	166	K1	PTT3	I/O	Port
57	C7	TRST	I	H-UDI test reset input	167	K2	PTT2	I/O	
58	C8	TST	I	Test pin (fix to VCCQ)	168	K3	PTT1/DREQ0	I/O	Port / DMA transfer request
59	C9	PTJ7/STATUS0	I/O	Port / Status output	169	K4	PTT0	I/O	Port
60	C10	RESETA	I	System reset input	170	K5	PTY4/KEYOUT4/KEYIN6	I/O	Port / Key output / Key input
61	C11	MD2	I	Mode setting pin	171	K10	VDD	I	Internal power supply (1.2 V)
62	C12	PTS4/SCIF0_CTS	I/O	Port / SCIF CTS input	172	K11	VDD	I	
63	C13	PTS0/SCIF0_TXD	I/O	Port / SCIF transmit data	173	K12	VDD	I	
64	C14	PTK2/SIOF1_RXD	I/O	Port / SIOF1 input data	174	K13	VDD	I	
65	C15	PTQ5/SIOF0_SS1	I/O	Port / SPI slave device select	175	K14	VDD	I	
66	C16	PTQ0/SIOF0_MCK/IRQ3/SIM_D	I/O	Port / SIOF0 master clock input / Interrupt request / SIM data	176	K15	VDD	I	
					177	K16	VDD	I	
67	C17	PTF3/SIOSTRB0	I/O	Port / SIO serial strobe	178	K21	VCCQ	I	I/O power supply (3.3 V)
68	C18	PTD4/SDHID2/IRQ2	I/O	Port / SD data bus / Interrupt request	179	K22	HPD63/PTN7	I/O	SDRAM upper data bus / Port
69	C19	PTD0/SDHICLK	I/O	Port / SD clock	180	K23	HPD48/PTB0	I/O	
70	C20	PTD3/SDHID1	I/O	Port / SD data bus	181	K24	HPD62/PTN6	I/O	
71	C21	PTR0/LCDVEPWC/LCDVEPWC2	I/O	Port / LCD power supply control / LCD power supply control	182	K25	HPD61/PTN5	I/O	
					183	L1	PTU3	I/O	Port
72	C22	PTH4/LCDDISP/LCDRS	I/O	Port / LCD display enable signal / LCD resistor select	184	L2	PTU2	I/O	
73	C23	PTH2/LCDDON/LCDDON2	I/O	Port / LCD display ON-OFF signal / LCD display ON-OFF signal	185	L3	PTU1	I/O	
74	C24	PTX5/LCDD23	I/O	Port / LCD data bus	186	L4	PTU0	I/O	
75	C25	VDD_DLL	I	DLL power supply	187	L5	VCCQ	I	I/O power supply (3.3 V)
76	D1	DP	I/O	USB DP pin	188	L10	VDD	I	Internal power supply (1.2 V)
77	D2	DG12	I	1.2 V power supply ground for USB driver/receiver	189	L11	VDD	I	
78	D3	DG33	I	3.3 V power supply ground for USB driver/receiver	190	L12	VSS	I	Ground
79	D4	VSS	I	Ground	191	L13	VSS	I	
80	D5	NMI	I	Nonmaskable interrupt	192	L14	VSS	I	
81	D6	ASEBRK/BRKAK	I/O	E10A emulator brake input / Acknowledge	193	L15	VDD	I	Internal power supply (1.2 V)
82	D7	PTG1/AUDATA1	I/O	Port / AUD data output	194	L16	VDD	I	
83	D8	TDO	O	H-UDI test data output	195	L21	VCCQ	I	I/O power supply (3.3 V)
84	D9	TMS	I	H-UDI test mode select input	196	L22	HPD49/PTB1	I/O	SDRAM upper data bus / Port
85	D10	RESETOUT	O	Reset output	197	L23	HPD50/PTB2	I/O	
86	D11	MD5	I	Mode setting pin	198	L24	HPD60/PTN4	I/O	
87	D12	PTS3/SCIF0_RTS	I/O	Port / SCIF RTS output	199	L25	HPD59/PTN3	I/O	
88	D13	PTK6/SIOF1_SS2	I/O	Port / SPI slave device select	200	M1	PTV1	I/O	Port
89	D14	PTQ3/SIOF0_SCK	I/O	Port / SIOF0 serial clock	201	M2	PTV0	I/O	
90	D15	PTQ2/SIOF0_RXD/IrDA_IN	I/O	Port / SIOF0 receive data / IrDA receive data input	202	M3	PTU4	I/O	
91	D16	PTF5/SIOSCK	I/O	Port / SIO serial clock	203	M4	PTT4	I/O	
92	D17	PTF0/SIOTXD	I/O	Port / SIO output data	204	M5	VSS	I	Ground
93	D18	PTD7/SDHICD	I/O	Port / SD card detection	205	M10	VDD	I	Internal power supply (1.2 V)
94	D19	PTR1/LCDDCK/LCDWR	I/O	Port / LCD dot clock signal / LCD write strobe	206	M11	VSS	I	Ground
95	D20	PTR4/LCDRD	I/O	Port / LCD read strobe	207	M12	VSS	I	
96	D21	PTH7/LCDVCPWC/LCDVCPWC2	I/O	Port / LCD power supply control / LCD power supply control	208	M13	VSS	I	
					209	M14	VSS	I	
97	D22	PTH3/LCDHSYN/LCDCS	I/O	Port / LCD horizontal synchronized signal / LCD chip select	210	M15	VSS	I	
98	D23	PTX4/LCDD22	I/O	Port / LCD data bus	211	M16	VDD	I	Internal power supply (1.2 V)
99	D24	PTX2/LCDD20	I/O		212	M21	VSS	I	Ground
100	D25	PTX0/LCDD18	I/O		213	M22	HPD51/PTB3	I/O	SDRAM upper data bus / Port
101	E1	REFRIN		External resistor pin for USB constant current circuit	214	M23	HPD58/PTN2	I/O	
102	E2	DG12	I	1.2 V power supply ground for USB driver/receiver	215	M24	HPD52/PTB4	I/O	
103	E3	DG33	I	3.3 V power supply ground for USB driver/receiver	216	M25	HPD53/PTB5	I/O	
104	E4	DV33	I	3.3V power supply for USB driver/receiver (3.3V)	217	N1	PTV2	I/O	Port
105	E5	VSS	I	Ground	218	N2	SCL	I/O	I2C serial clock input/output
106	E6	VSS	I		219	N3	PTV3	I/O	Port
107	E7	VSS	I		220	N4	PTV4	I/O	
108	E8	VCCQ	I	I/O power supply (3.3V)	221	N5	VSS	I	Ground
109	E9	VCCQ	I		222	N10	VDD	I	Internal power supply (1.2 V)

PIN NO.	OUTER NO.	NAME	I/O	FUNCTION
223	N11	VSS	I	Ground
224	N12	VSS	I	
225	N13	VSS	I	
226	N14	VSS	I	
227	N15	VSS	I	
228	N16	VDD	I	Internal power supply (1.2 V)
229	N21	VSS	I	Ground
230	N22	HPD56/PTN0	I/O	SDRAM upper data bus / Port
231	N23	HPD55/PTB7	I/O	
232	N24	HPD54/PTB6	I/O	
233	N25	HPD57/PTN1	I/O	
234	P1	SDA	I/O	I2C serial data input/output
235	P2	PTA1	I/O	Port
236	P3	PTA2	I/O	
237	P4	PTA0/LCDLCLK	I/O	Port / LCD clock source input
238	P5	VSS	I	Ground
239	P10	VDD	I	Internal power supply (1.2 V)
240	P11	VSS	I	Ground
241	P12	VSS	I	
242	P13	VSS	I	
243	P14	VSS	I	
244	P15	VSS	I	
245	P16	VDD	I	Internal power supply (1.2 V)
246	P21	VSS	I	Ground
247	P22	HPD31	I/O	SDRAM lower data bus
248	P23	HPD30	I/O	
249	P24	HPD16	I/O	
250	P25	HPCLKR	O	SDRAM interface synchronized clock
251	R1	PTA3	I/O	Port
252	R2	PTA4	I/O	
253	R3	PTA5//SCIF1_TXD	I/O	Port / SCIF transmit data
254	R4	PTW2/SCIF2_RXD	I/O	Port / SCIF receive data
255	R5	VCCQ	I	I/O power supply (3.3 V)
256	R10	VDD	I	Internal power supply (1.2 V)
257	R11	VDD	I	
258	R12	VSS	I	Ground
259	R13	VSS	I	
260	R14	VSS	I	
261	R15	VDD	I	Internal power supply (1.2 V)
262	R16	VDD	I	
263	R21	VCCQ	I	I/O power supply (3.3 V)
264	R22	HPD19	I/O	SDRAM lower data bus
265	R23	HPD18	I/O	
266	R24	HPD29	I/O	
267	R25	HPD17	I/O	
268	T1	PTA6/SCIF1_RXD	I/O	Port / SCIF receive data
269	T2	PTA7/SCIF1_SCK	I/O	Port / SCIF serial clock
270	T3	PTW0/SCIF1_RTS	I/O	Port / SCIF RTS output
271	T4	RDWR	O	Read/write signal
272	T5	VCCQ	I	I/O power supply (3.3 V)
273	T10	VDD	I	Internal power supply (1.2 V)
274	T11	VDD	I	
275	T12	VDD	I	
276	T13	VDD	I	
277	T14	VDD	I	
278	T15	VDD	I	
279	T16	VDD	I	
280	T21	VCCQ	I	I/O power supply (3.3 V)
281	T22	HPD26	I/O	SDRAM lower data bus
282	T23	HPD20	I/O	
283	T24	HPD27	I/O	
284	T25	HPD28	I/O	
285	U1	PTW1/SCIF1_CTS	I/O	Port / SCIF CTS input
286	U2	PTW3/SCIF2_TXD	I/O	Port / SCIF transmit data
287	U3	PTW4/SCIF2_SCK	I/O	Port / SCIF serial clock
288	U4	D3	I/O	Data bus
289	U5	VCCQ	I	I/O power supply (3.3 V)
290	U21	VCCQ	I	
291	U22	HPD24	I/O	SDRAM lower data bus
292	U23	HPD22	I/O	
293	U24	HPD25	I/O	
294	U25	HPD21	I/O	
295	V1	PTW5/SCIF2_RTS	I/O	Port / SCIF RTS output
296	V2	PTW6/SCIF2_CTS	I/O	Port / SCIF CTS input
297	V3	CS5B/CE1A	O	Chip select / PCMCIA card select
298	V4	CS4	O	Chip select
299	V5	VCCQ	I	I/O power supply (3.3 V)
300	V21	VCCQ	I	
301	V22	HPDQM0	O	SDRAM interface lower LL side data mask
302	V23	HPDQM1	O	SDRAM interface lower LU side data mask
303	V24	HPDQM3	O	SDRAM interface lower UU side data mask
304	V25	HPD23	I/O	SDRAM lower data bus
305	W1	PTX6/CS6A/CE2B	I/O	Port / Chip select / PCMCIA card select
306	W2	D15	I/O	Data bus
307	W3	D7	I/O	
308	W4	D14	I/O	
309	W5	VSS	I	Ground
310	W21	VSS	I	
311	W22	HPA7	O	SDRAM interface address bus
312	W23	HPA15	O	
313	W24	HPA16	O	
314	W25	HPDQM2	O	SDRAM interface lower UL side data mask
315	Y1	D6	I/O	Data bus
316	Y2	D13	I/O	
317	Y3	D5	I/O	
318	Y4	D12	I/O	
319	Y5	VSS	I	Ground
320	Y21	VSS	I	
321	Y22	HPA2	O	SDRAM interface address bus
322	Y23	HPA12	O	
323	Y24	HPA13	O	
324	Y25	HPA14	O	
325	AA1	D4	I/O	Data bus
326	AA2	D11	I/O	
327	AA3	D10	I/O	
328	AA4	D2	I/O	
329	AA5	VSS	I	Ground
330	AA6	VSS	I	
331	AA7	VSS	I	
332	AA8	VCCQ	I	I/O power supply (3.3 V)
333	AA9	VCCQ	I	
334	AA10	VCCQ	I	
335	AA11	VCCQ	I	
336	AA12	VSS	I	Ground
337	AA13	VSS	I	
338	AA14	VSS	I	
339	AA15	VCCQ	I	I/O power supply (3.3 V)
340	AA16	VCCQ	I	
341	AA17	VCCQ	I	
342	AA18	VCCQ	I	
343	AA19	VSS	I	Ground
344	AA20	VSS	I	
345	AA21	VSS	I	
346	AA22	HPA9	O	SDRAM interface address
347	AA23	HPA8	O	
348	AA24	HPA10	O	
349	AA25	HPA11	O	
350	AB1	D9	I/O	Data bus
351	AB2	D1	I/O	
352	AB3	D8	I/O	
353	AB4	WE1/WE	O	D15 to D8 write / PCMCIA memory write
354	AB5	A25/PTE7	I/O	Address bus / Port
355	AB6	A15	O	Address bus
356	AB7	A21	O	
357	AB8	A3	O	
358	AB9	A11	O	
359	AB10	A9	O	
360	AB11	A5	O	
361	AB12	IOIS16/PTC5	I/O	PCMCIA-IF 16 bits / Port
362	AB13	D31/HPD47	I/O	Upper data bus / SDRAM upper data bus
363	AB14	D27/HPD43	I/O	
364	AB15	D26/HPD42	I/O	
365	AB16	D24/HPD40	I/O	
366	AB17	HPD0	I/O	SDRAM lower data bus
367	AB18	HPD4	I/O	
368	AB19	HPD9	I/O	
369	AB20	HPD7	I/O	
370	AB21	HPDQM7/PTC4	I/O	SDRAM interface upper UU side data mask / Port
371	AB22	HPA4	O	SDRAM interface address bus
372	AB23	HPA5	O	
373	AB24	HPA6	O	
374	AB25	HPCLK	O	SDRAM interface synchronized clock
375	AC1	D0	I/O	Data bus
376	AC2	CS0	O	Chip select
377	AC3	RD	O	Read signal
378	AC4	WE3/ICIOWR	O	D31 to D24 write / PCMCIA IO write
379	AC5	A23/PTE5	I/O	Address bus / Port
380	AC6	A19	O	Address bus
381	AC7	A18	O	
382	AC8	A13	O	
383	AC9	A7	O	
384	AC10	A4	O	
385	AC11	A0	O	
386	AC12	PTC7	I/O	Port
387	AC13	D30/HPD46	I/O	Upper data bus / SDRAM upper data bus
388	AC14	D18/HPD34	I/O	
389	AC15	D20/HPD36	I/O	
390	AC16	D22/HPD38	I/O	
391	AC17	HPD14	I/O	SDRAM lower data bus
392	AC18	HPD12	I/O	
393	AC19	HPD10	I/O	
394	AC20	HPD8	I/O	
395	AC21	HPDQM6/PTC3	I/O	SDRAM interface upper UL side data mask / Port
396	AC22	HPRAS	O	SDRAM interface row address
397	AC23	HPCS3	O	SDRAM interface chip select
398	AC24	HPA1	O	SDRAM interface address bus
399	AC25	HPA3	O	
400	AD1	VSS	I	Ground
401	AD2	VSS	I	
402	AD3	WE0	O	D7 to D0 write
403	AD4	MD3	I	Data bus width set
404	AD5	A22/PTE4	I/O	Address bus / Port
405	AD6	A17	O	Address bus
406	AD7	A14	O	
407	AD8	A10	O	
408	AD9	A6	O	
409	AD10	A1	O	
410	AD11	CS5A/CE2A	O	Chip select / PCMCIA card select
411	AD12	PTE0/IRQ4/BS	I/O	Port / Interrupt request / Bus start
412	AD13	D17/HPD33	I/O	Upper data bus / SDRAM upper data bus
413	AD14	D28/HPD44	I/O	
414	AD15	D21/HPD37	I/O	
415	AD16	D23/HPD39	I/O	
416	AD17	HPD1	I/O	SDRAM lower data bus
417	AD18	HPD2	I/O	
418	AD19	HPD11	I/O	
419	AD20	HPD6	I/O	
420	AD21	HPDQM5/PTC2	I/O	SDRAM interface upper LU side data mask / Port
421	AD22	HPCAS	O	SDRAM interface column address
422	AD23	HPCS2	O	SDRAM interface chip select
423	AD24	VSS	I	Ground
424	AD25	VSS	I	
425	AE1	VSS	I	
426	AE2	VSS	I	
427	AE3	WE2/ICIORD	O	D23 to D16 write / PCMCIA IO read
428	AE4	A24/PTE6	I/O	Address bus / Port
429	AE5	A20	O	Address bus
430	AE6	A16	O	
431	AE7	A12	O	
432	AE8	A8	O	
433	AE9	A2	O	
434	AE10	CKO	O	System clock
435	AE11	PTE1/IRQ5	I/O	Port/ Interrupt request
436	AE12	D16/HPD32	I/O	Upper data bus / SDRAM upper data bus
437	AE13	D29/HPD45	I/O	
438	AE14	D19/HPD35	I/O	
439	AE15	D25/HPD41	I/O	
440	AE16	HPCLKD	O	SDRAM interface synchronized clock
441	AE17	HPD15	I/O	SDRAM lower data bus
442	AE18	HPD13	I/O	
443	AE19	HPD3	I/O	
444	AE20	HPD5	I/O	
445	AE21	HPDQM4/PTC0	I/O	SDRAM interface upper LL side data bus / Port
446	AE22	HPRDWR	O	SDRAM interface read/write
447	AE23	HPCKE	O	SDRAM interface clock enable
448	AE24	VSS	I	Ground
449	AE25	VSS	I	

● **AK4396VF-E2** (X8324A00) **DAC** (Digital to Analog Converter)

DM: IC950, 951

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	DV	-	Digital ground	15	TTL	I	CMOS/TTL level select
2	DV_{DD}	-	Digital power supply +3.3 V	16	VREFL	I	Low level voltage reference input
3	MCLK	I	Master clock input	17	VREFH	I	High level voltage reference input
4	PDN	I	Power-down mode	18	AV_{DD}	-	Analog power supply +5 V
5	BICK	I	Audio serial data clock	19	AV_{SS}	-	Analog ground
6	SDATA	I	Audio serial data input	20	AOUTR-	O	Rch negative analog output
7	LRCK	I	L/R clock	21	AOUTR+	O	Rch positive analog output
8	SMUTE/CSN	I	Soft mute/Chip select	22	AOUTL-	O	Lch negative analog output
9	DFS0/CAD0	I	Sampling speed mode select/Chip address 0	23	AOUTL+	O	Lch positive analog output
10	DEM0/CCLK	I	De-emphasis enable 0/Control data clock	24	VCOM	O	Common voltage output
11	DEM1/CDTI	I	De-emphasis enable 1/Control data input	25	P/S	I	Parallel/serial select
12	DIF0	I	Digital input format	26	TST1/DZFL	O	Test 1/Lch zero input detect
13	DIF1	I		27	TST2/CAD1	I	Test 2/Chip address 1
14	DIF2	I		28	ACKS/DZFR	I/O	Master clock auto setting mode/Rch zero input detect

● **BH7236AF-E2** (XS062A00) **RGB ENCODER**

DM: IC606

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	GND1		Ground for all drivers other than the 75Ω driver.	13	N. C.		This pin is not connected inside the IC.
2	RIN	I	Analog R signal input. Drive at low impedance.	14	N. C.		
3	GIN	I	Analog G signal input. Drive at low impedance.	15	COUT	O	Chroma signal output. Internal 75Ω driver.
4	BIN	I	Analog B signal input. Drive at low impedance.	16	YOUT	O	Luminance signal output. Internal 75Ω driver.
5	N. C.		This pin is not connected inside the IC.	17	YTRAP	O	Attached luminance trap filter.
6	SCIN	I	Color subcarrier input.	18	N. C.		This pin is not connected inside the IC.
7	NT/PAL	O	Selecting the type of color TV signal output. The high level selects NTSC, the low level PAL.	19	VCC2		Power supply pin for the 75Ω driver.
				20	VOUT	O	Color TV signal output. Internal 75Ω driver.
8	BFPOUT	O	Burst timing output.	21	BOUT	O	Analog B signal output. Internal 75Ω driver.
9	N. C.		This pin is not connected inside the IC.	22	GOUT	O	Analog G signal output. Internal 75Ω driver.
10	SYNCIN	I	Composite synchronization signal input.	23	ROUT	O	Analog R signal output. Internal 75Ω driver.
11	SYNCOUT	O	Composite synchronization signal output.	24	GND2		Ground for the 75Ω driver.
12	VCC1		Power supply pin for all except the 75Ω driver.				

● μ**PD780031AYGK-N09** (XZ916300) **E-PNS2a LED/SWITCH DRIVER**

PNL: IC1
PNR: IC1

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	P50/A8	I/O	Port 5 / Higher address bus	33	P10/ANI0	I	Port 1 / A/D converter analog input
2	P51/A9	I/O		34	AV_{REF}	I	A/D converter reference voltage input
3	P51/A10	I/O		35	AV_{DD}	-	Analog power supply +5 V
4	P53/A11	I/O		36	RESET	I	System reset input
5	P54/A12	I/O		37	XT2	-	Subsystem clock oscillation
6	P55/A13	I/O		38	XT1	I	
7	P56/A14	I/O		39	IC	-	Internally connected
8	P57/A15	I/O		40	X2	-	Main system clock oscillation
9	Vss0	-	Ground	41	X1	I	
10	$V_{DD}0$	-	Power supply +5 V	42	Vss1	-	Ground
11	P30	I/O	Port 3	43	P00/INTP0	I/O	Port 0 / External interrupt request input
12	P31	I/O		44	P01/INTP1	I/O	
13	P32/SDA0	I/O	Port 3 / Serial data input/output	45	P02/INTP2	I/O	
14	P33/SCL0	I/O	Port 3 / Serial clock input/output	46	P03/INTP3/ADTRG	I/O	Port 0 / External interrupt request input / Trigger signai input
15	P34	I/O	Port 3	47	P70/TI00/TO0	I/O	Port 7 / External count clock input / 16-bit timer/event counter 0 output
16	P35	I/O		48	P71/TI01	I/O	Port 7 / Capture trigger input
17	P36	I/O		49	P72/TI50/TO50	I/O	Port 7 / External count clock input / 8-bit timer/event counter 50 output
18	P20/SI30	I/O	Port 2 / Serial data input	50	P73/TI51/TO51	I/O	Port 7 / External count clock input / 8-bit timer/event counter 51 output
19	P21/SO30	I/O	Port 2 / Serial data output	51	P74/PCL	I/O	Port 7 / Clock output
20	P22/SCK30	I/O	Port 2 / Serial clock input/output	52	P75/BUZ	I/O	Port 7 / Buzzer output
21	P23/RxD0	I/O	Port 2 / Serial data input	53	P64/RD	I/O	Port 6 / Strobe signal output for reading
22	P24/TxD0	I/O	Port 2 / Serial data output	54	P65/WR	I/O	Port 6 / Strobe signal output for writing
23	P25/ASCK0	I/O	Port 2 / Serial clock input/output	55	P66/WAIT	I/O	Port 6 / Wait insertion
24	$V_{DD}1$	-	Power supply +5 V	56	P67/ASTB	I/O	Port 6 / Strobe output
25	AVss	-	Ground	57	P40/AD0	I/O	Port 4 / Lower address/data bus
26	P17/ANI7	I	Port 1 / A/D converter analog input	58	P41/AD1	I/O	
27	P16/ANI6	I		59	P42/AD2	I/O	
28	P15/ANI5	I		60	P43/AD3	I/O	
29	P14/ANI4	I		61	P44/AD4	I/O	
30	P13/ANI3	I		62	P45/AD5	I/O	
31	P12/ANI2	I		63	P46/AD6	I/O	
32	P11/ANI1	I		64	A47/AD7	I/O	

● AX88796BLF (YC258A00) LAN CONTROLLER

DM: IC400

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	VCC3A3		Power supply for analog circuit (+3.3V DC)	33	SD9	I/O	System data bus
2	GND3A3		Power supply for analog circuit (+0V DC or Ground power)	34	SD8	I/O	
3	TPI+	I	Twisted pair receive input, positive	35	SD7	I/O	
4	TPI	I	Twisted pair receive input, negative	36	SD6	I/O	
5	VCC18A		Analog power for oscillator, PLL, and Ethernet PHY differential I/O pins, 1.8V	37	SD5	I/O	
				38	SD4	I/O	
6	TPO+	O	Twisted pair transmit output, positive	39	SD3	I/O	
7	TPO-	O	Twisted pair transmit output, negative	40	SD2	I/O	
8	GND18A		Analog ground for oscillator, PLL, and Ethernet PHY differential I/O pins	41	SD1	I/O	
				42	SD0	I/O	
9	V18F		On-chip 3.3V to 1.8V Regulator output +1.8V DC	43	VCCK		Power supply for core logic (+1.8V DC)
10	VCC3R3		On-chip 3.3V to 1.8V Regulator power supply (+3.3V DC)	44	VCC3IO		Power supply for IO (+3.3V DC)
11	GND3R3		On-chip 3.3V to 1.8V Regulator ground	45	SA5,FIFO_SEL	I	System address or FIFO select
12	TEST2	I	TEST mode select	46	SA4	I	System address
13	TEST1	I		47	SA3	I	
14	l_LK/ACT	O	Link status/Active	48	SA2	I	
15	l_SPEED	O	Speed status	49	SA1	I	
16	l_FULL/COL	O	Full-duplex/Collision status	50	SA0	I	
17	RSTn	I	Reset	51	AEN,PSEN	I	Address enable
18	GND		Ground	52	CSn	I	Chip select
19	EEDIO	I/O	EEPROM data in/out	53	RDn	I	Read
20	EECK	I/O	EEPROM clock	54	WRn	I	Write
21	EECS	I/O	EEPROM chip select	55	IOIS16n	I/O	16 bit port
22	PME	O	Wakeup indicator	56	TCLK	I	Test Clock Pin
23	IRQ	O	Programmable interrupt request	57	TCIK_EN	I	Enable TCLK in to ASIC as a main clock for test only
24	VCCK		Power supply for core logic (+1.8V DC)	58	GND		Ground
25	VCC3IO		Power supply for IO (+3.3V DC)	59	VCCK		Power supply for core logic (+1.8V DC)
26	GND		Ground	60	VCC18A		Analog power for oscillator, PLL, and Ethernet PHY differential I/O pins, 1.8V
27	SD15	I/O	System data bus				
28	SD14	I/O		61	XTALIN	I	Crystal/Oscillator input
29	SD13	I/O		62	XTALOUT	O	Crystal/Oscillator output
30	SD12	I/O		63	GND18A		Analog ground for oscillator, PLL, and Ethernet PHY differential I/O pins
31	SD11	I/O					
32	SD10	I/O		64	RSET_BG	O	Off-chip resister

● FIN1215MTDX (YC491A00) LVDS SERIALIZER/DE-SERIALIZER

DM: IC304

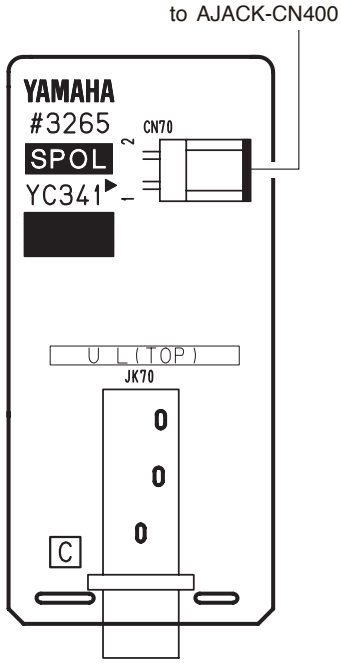
PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	TxIn4	I	LVTTL level input	25	TxIn20	I	LVTTL level input
2	Vcc	I	Power supply pin for LVTTL inputs	26	TxCLKIn	I	LVTTL level clock input
3	TxIn5	I	LVTTL level input	27	PwrDn	I	LVTTL level power-down input
4	TxIn6	I		28	PLL GND	I	Ground pin for PLL
5	GND	I	Ground pin for LVTTL inputs	29	PLL Vcc	I	Power supply pin for PLL
6	TxIn7	I	LVTTL level input	30	PLL GND	I	Ground pin for PLL
7	TxIn8	I		31	LVDS GND	I	Ground pin for LVDS outputs
8	Vcc	I	Power supply pin for LVTTL inputs	32	TxCLKOut+	O	Positive LVDS differential clock output
9	TxIn9	I	LVTTL level input	33	TxCLKOut-	O	Negative LVDS differential clock output
10	TxIn10	I		34	TxOut2+	O	Positive LVDS differential data output
11	GND	I	Ground pin for LVTTL inputs	35	TxOut2-	O	Negative LVDS differential data output
12	TxIn11	I	LVTTL level input	36	LVDS GND	I	Ground pin for LVDS outputs
13	TxIn12	I		37	LVDS Vcc	I	Power supply pin for LVDS outputs
14	Vcc	I	Power supply pin for LVTTL inputs	38	TxOut1+	O	Positive LVDS differential data output
15	TxIn13	I	LVTTL level input	39	TxOut1-	O	Negative LVDS differential data output
16	TxIn14	I		40	TxOut0+	O	Positive LVDS differential data output
17	GND	I	Ground pin for LVTTL inputs	41	TxOut0-	O	Negative LVDS differential data output
18	TxIn15	I	LVTTL level input	42	LVDS GND	I	Ground pin for LVDS outputs
19	TxIn16	I		43	N.C.		Not connected
20	TxIn17	I		44	TxIn0	I	LVTTL level input
21	Vcc	I	Power supply pin for LVTTL inputs	45	TxIn1	I	
22	TxIn18	I	LVTTL level input	46	GND	I	Ground pin for LVTTL inputs
23	TxIn19	I		47	TxIn2	I	LVTTL level input
24	GND	I	Ground pin for LVTTL inputs	48	TxIn3	I	

CIRCUIT BOARDS

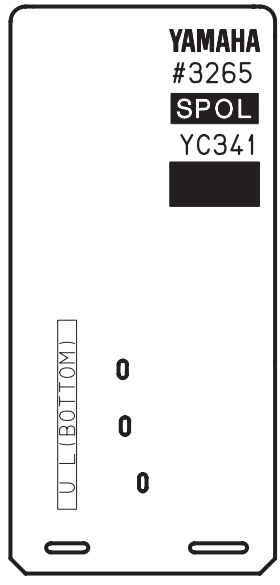
AJACK Circuit Board (YC340B0) 40
CK Circuit Board (YC341C0) 64
DJACK Circuit Board (YC341C0) 46
DM Circuit Board (YC134D0) 42/44
EMKS-FD Circuit Board (X6577A0) 58/59
EN Circuit Board (YC489A0) 49
HP Circuit Board (YC341C0) 39
LCL Circuit Board (YC270B0) 58/59
LCR Circuit Board (YC270B0) 60/61
MICVR Circuit Board (YC487C0) 64
MK61L Circuit Board (X6578C0) 62/63
MKH-D Circuit Board (X6579B0) 58/60
PNC Circuit Board (YC489A0) 49
PNL Circuit Board (YC487C0) 54/56
PNLS Circuit Board (YC487C0) 48
PNR Circuit Board (YC488C0) 50/52
SPOL Circuit Board (YC341C0) 39
SPOR Circuit Board (YC341C0) 39
USB Circuit Board (YC488C0) 48

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

● SPOL Circuit Board

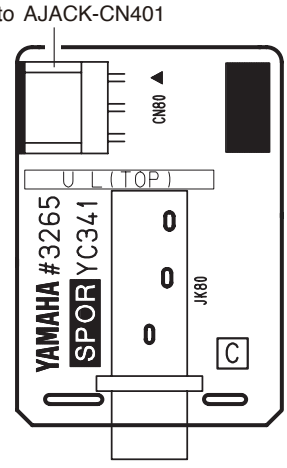


Component side

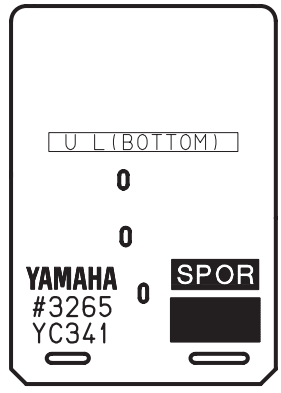


Pattern side

● SPOR Circuit Board

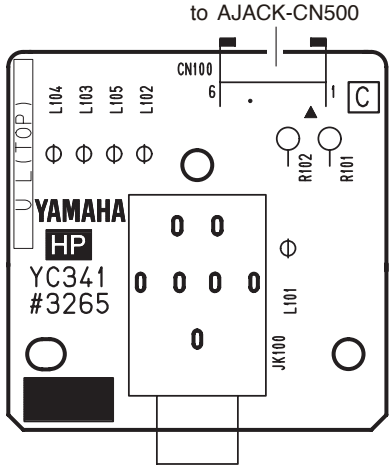


Component side

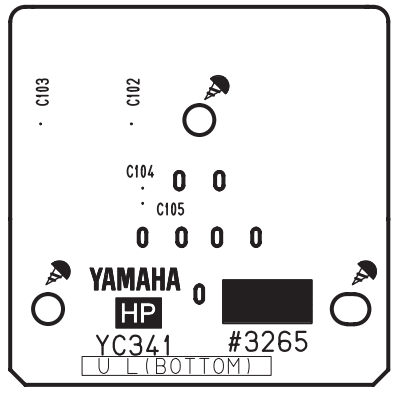


Pattern side

● HP Circuit Board

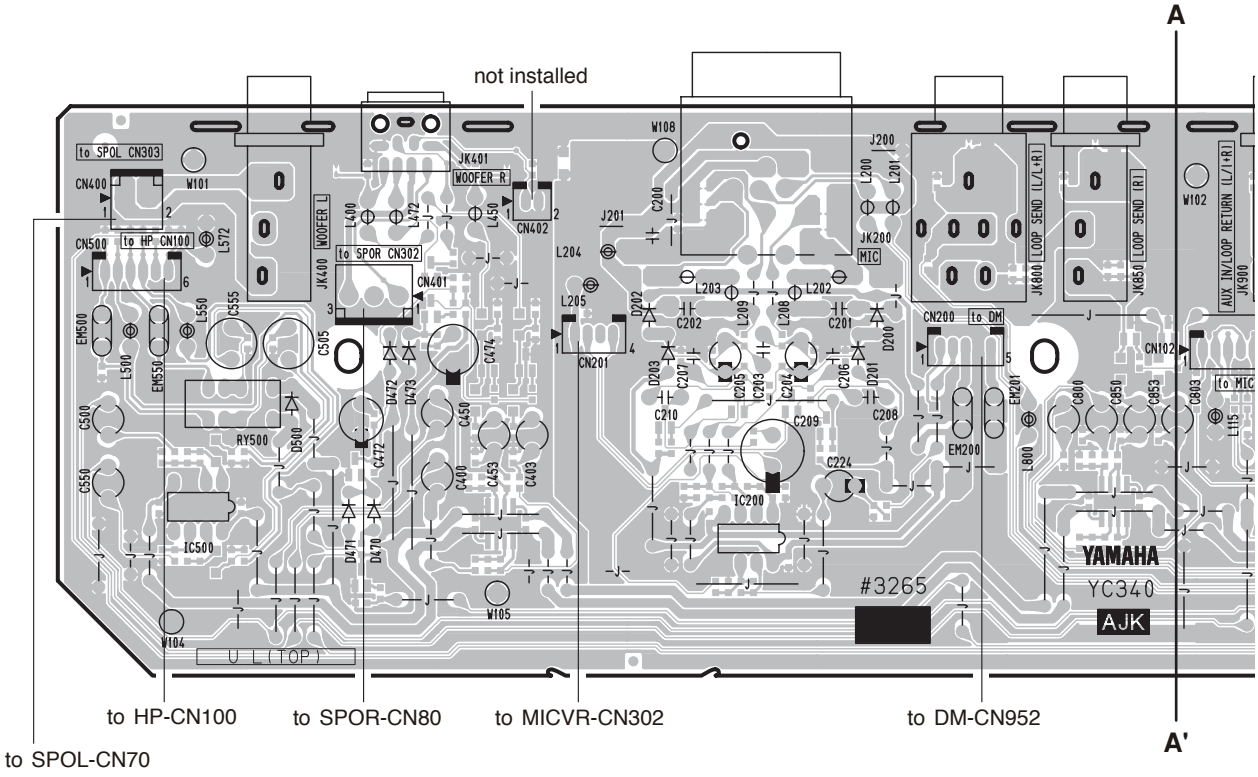


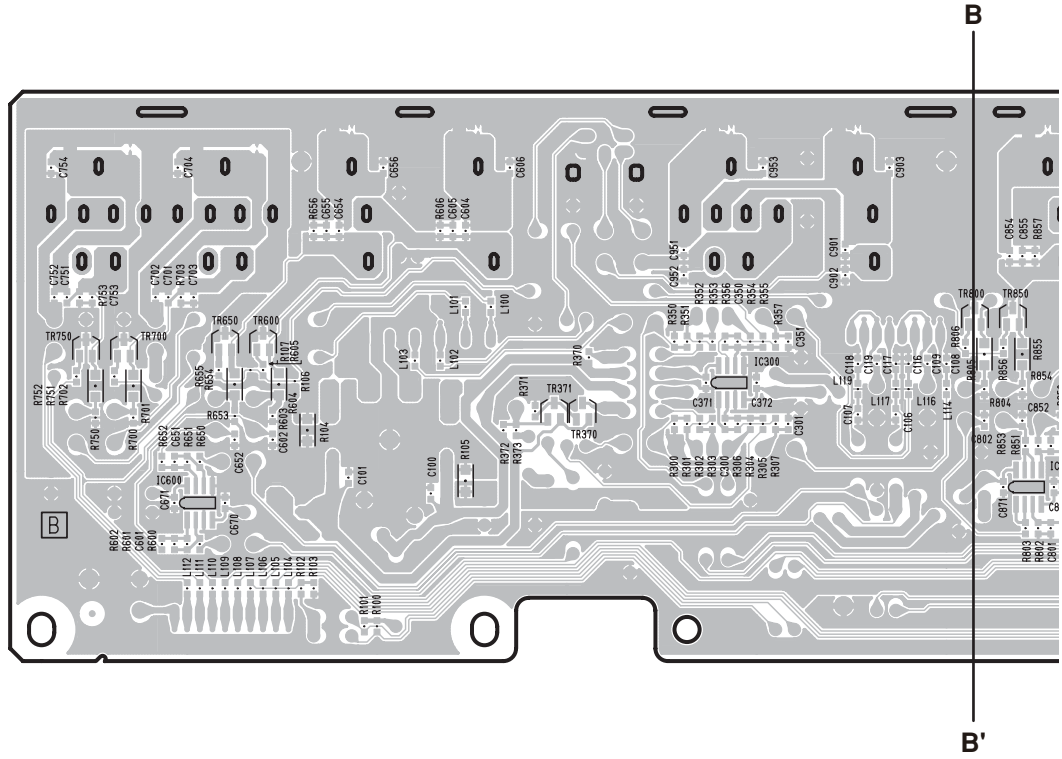
Component side

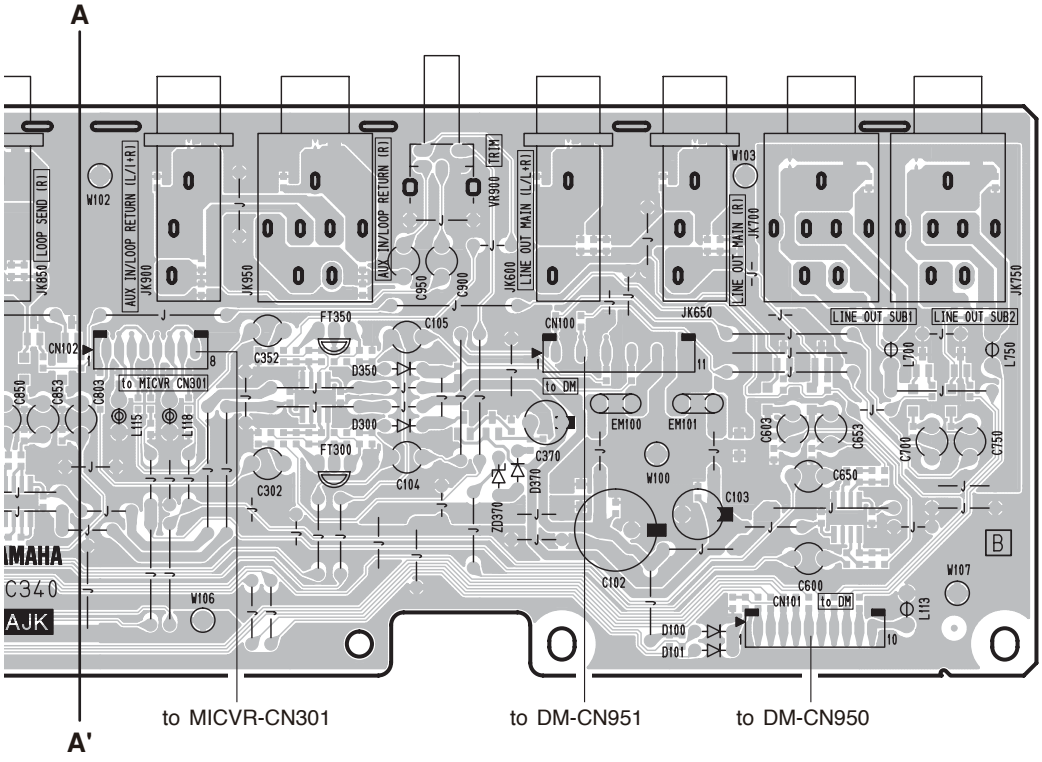


Pattern side

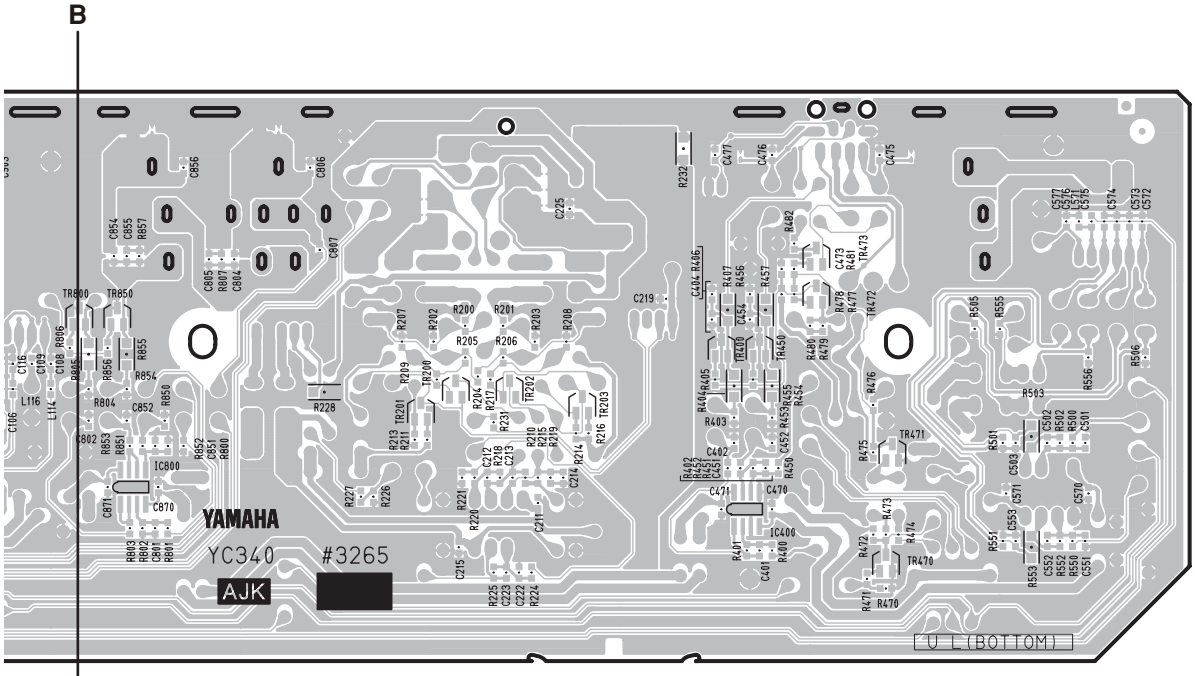
● AJACK Circuit Board





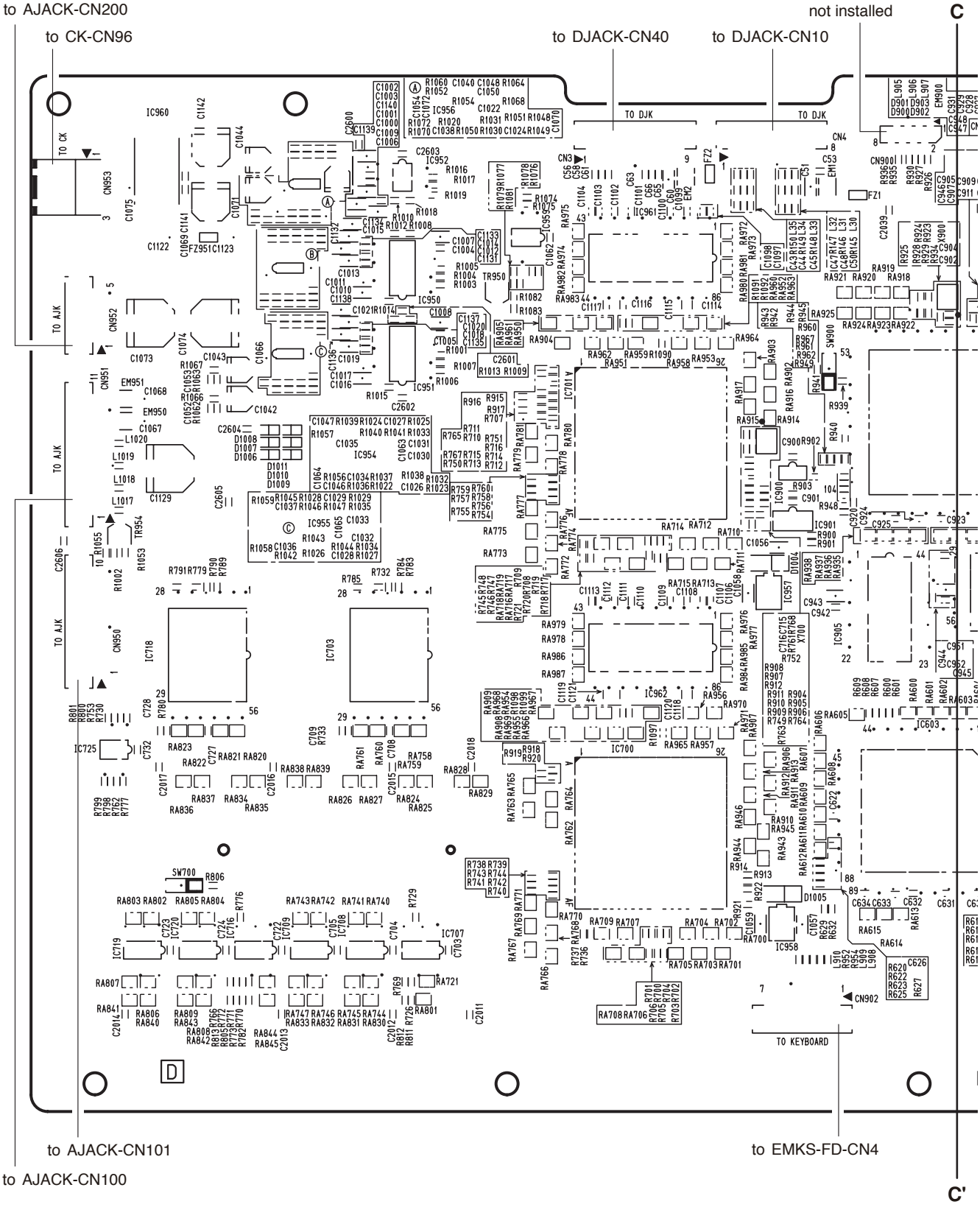


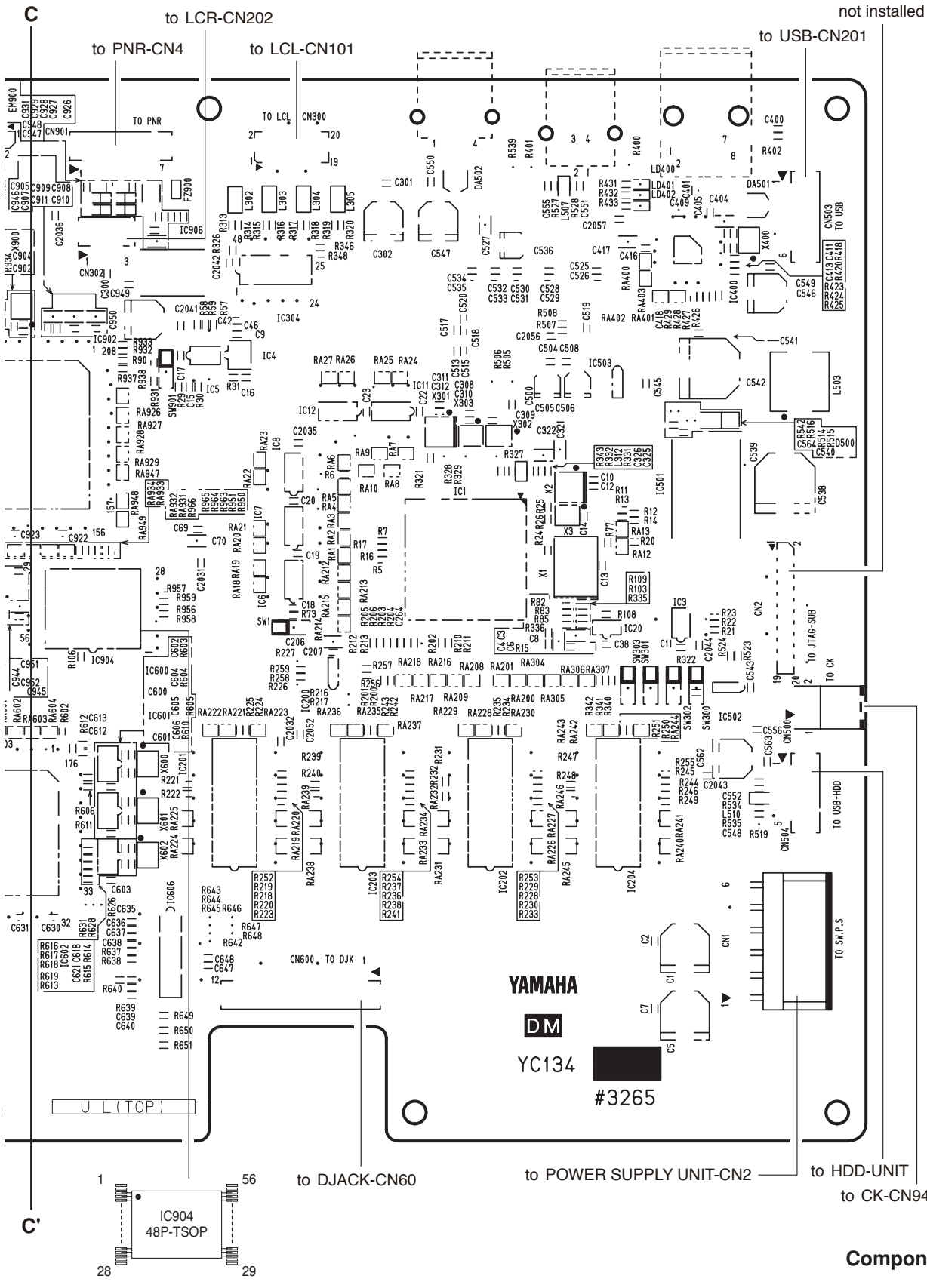
Component side



Pattern side

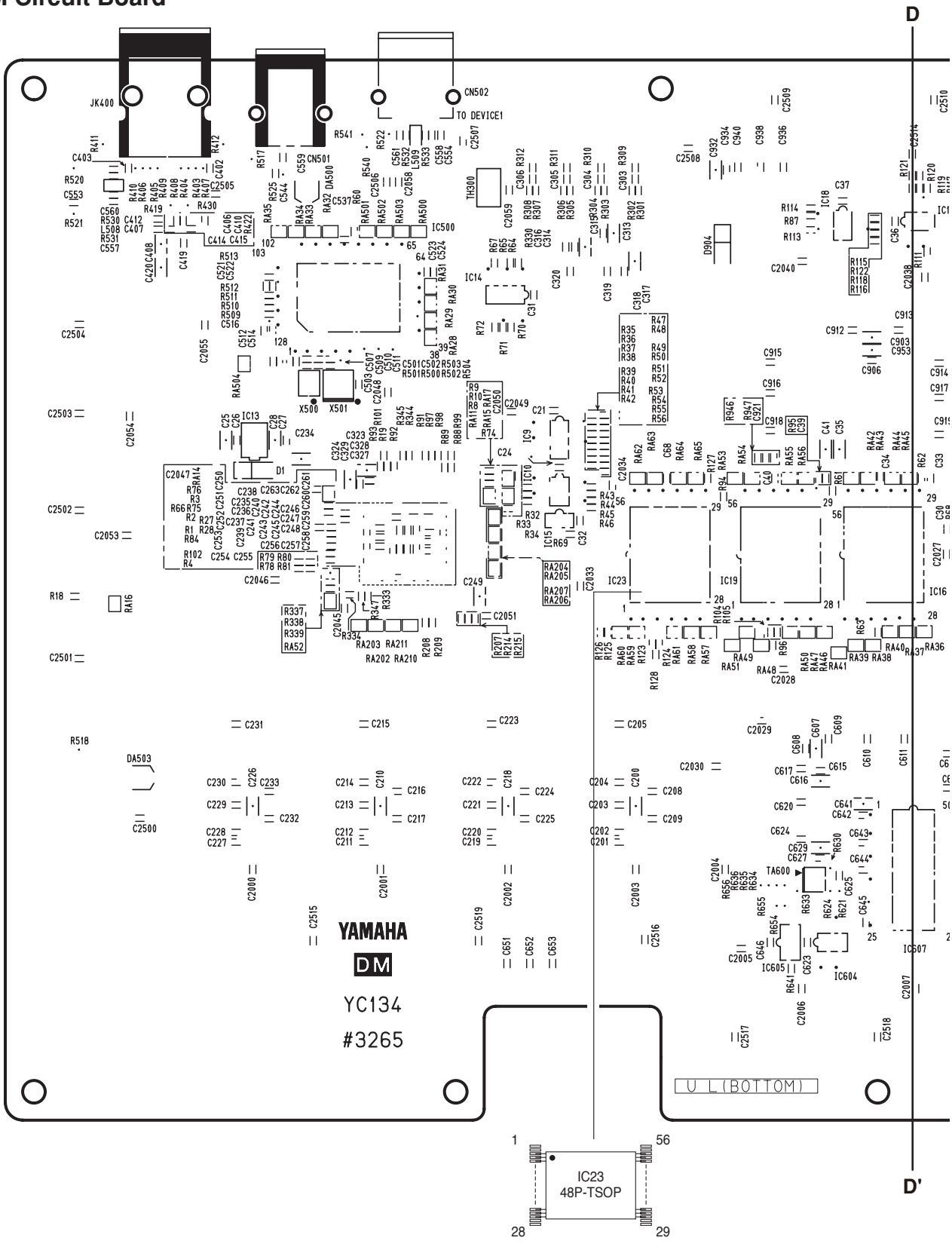
• DM Circuit Board

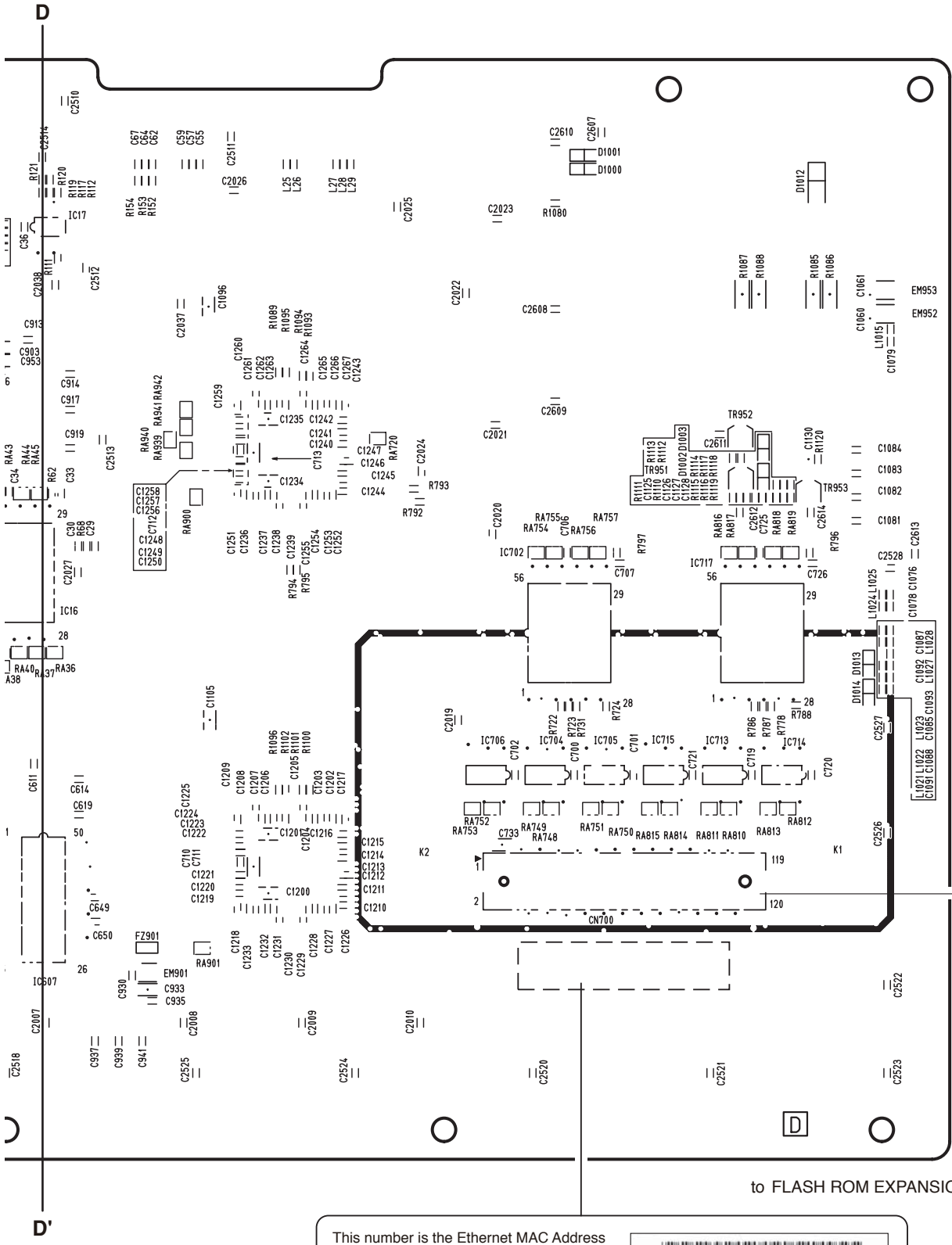




Component side

● DM Circuit Board



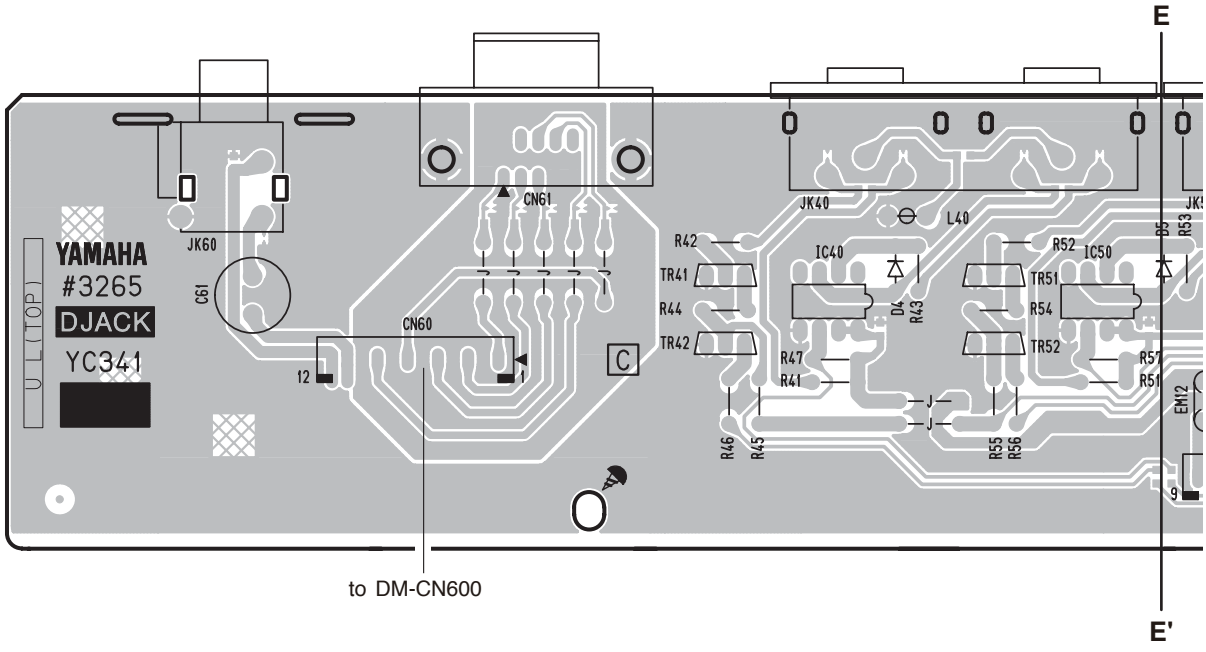


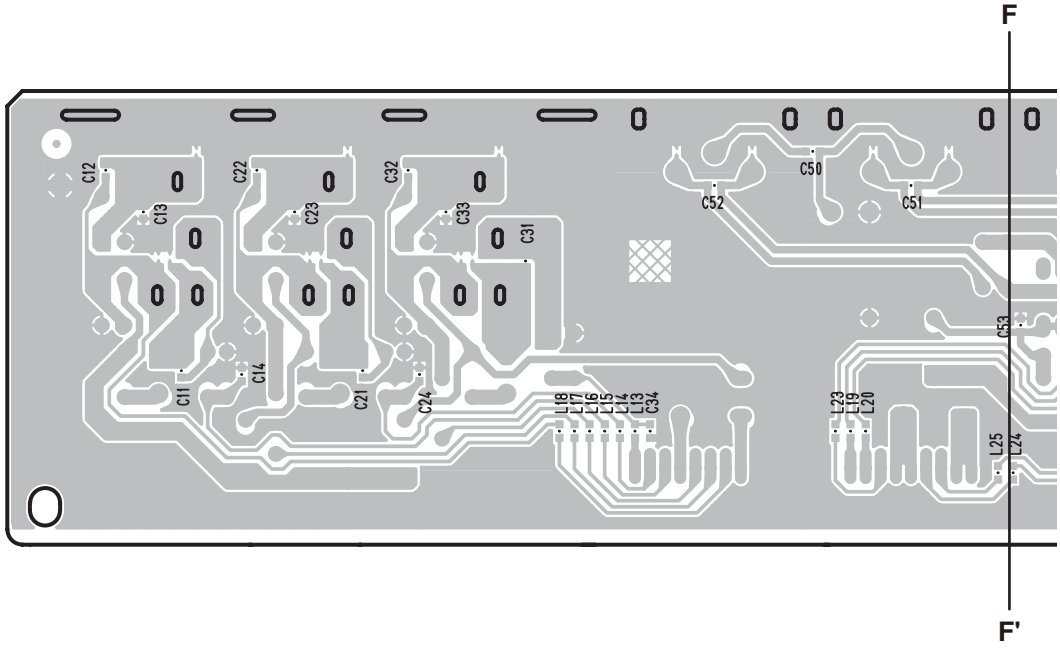
This number is the Ethernet MAC Address written on the DM circuit board.
If the DM circuit board is replaced, the MAC address will be changed.
The MAC address is required to execute the test program through Ethernet.
(Attached in the dotted frame.)

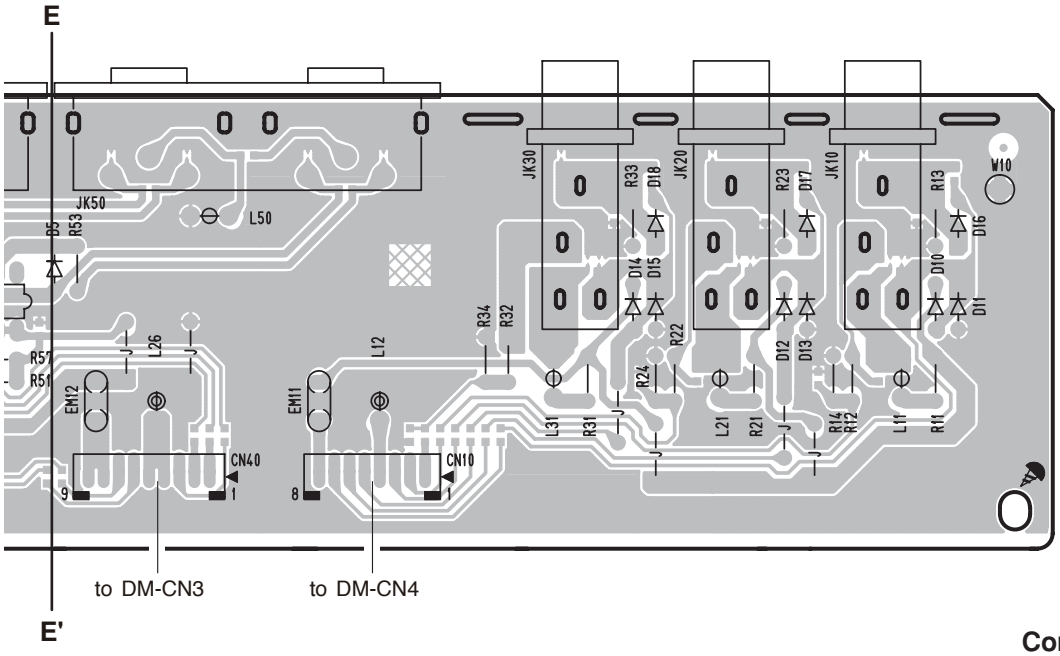
MAC ADD *AB CD EF GH IJ KL*

Pattern side

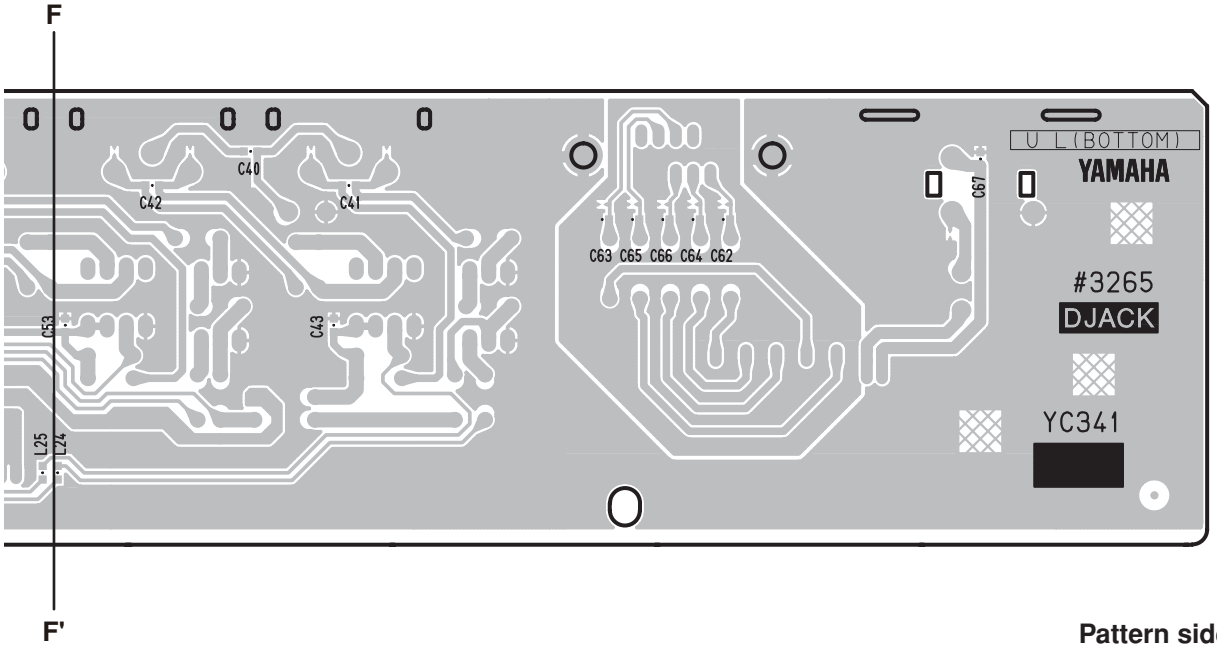
● DJACK Circuit Board





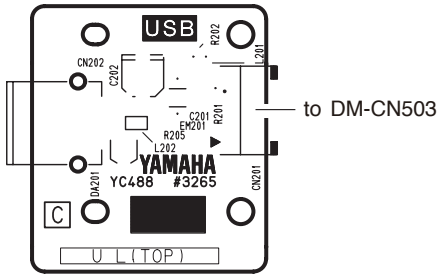


Component side

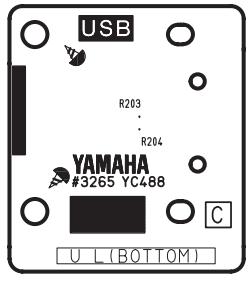


Pattern side

● USB Circuit Board

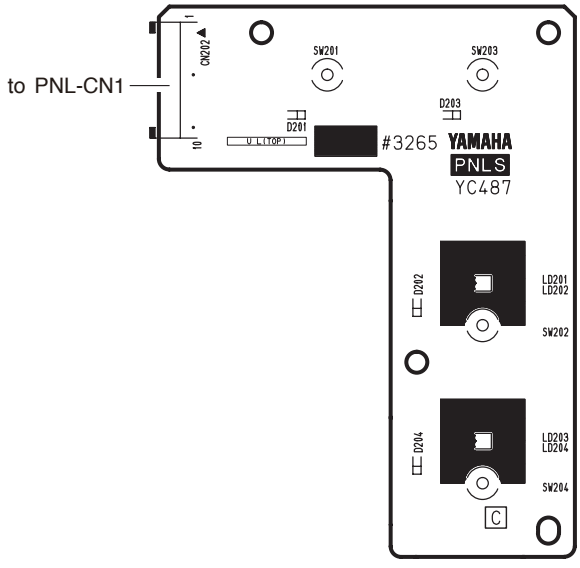


Component side

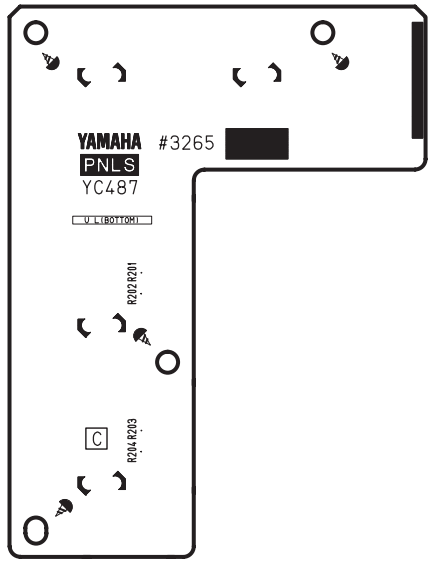


Pattern side

● PNLS Circuit Board



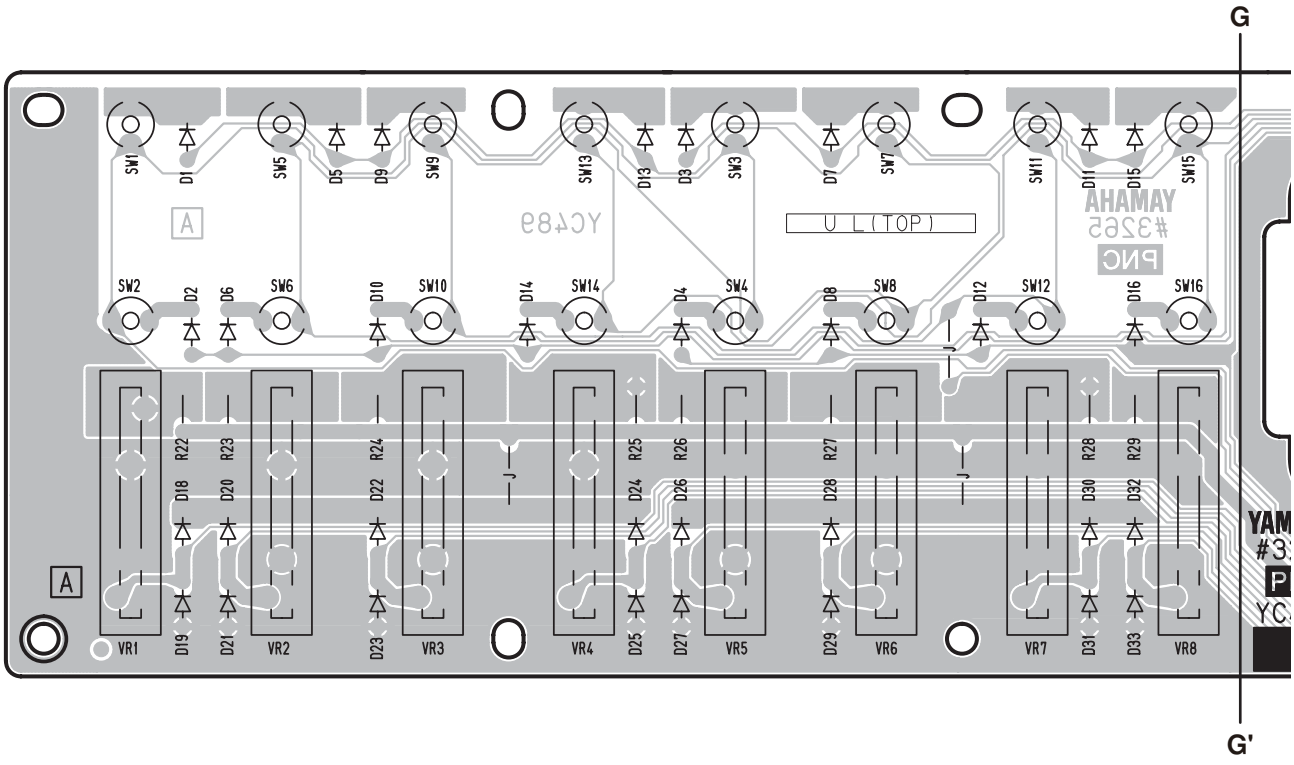
Component side



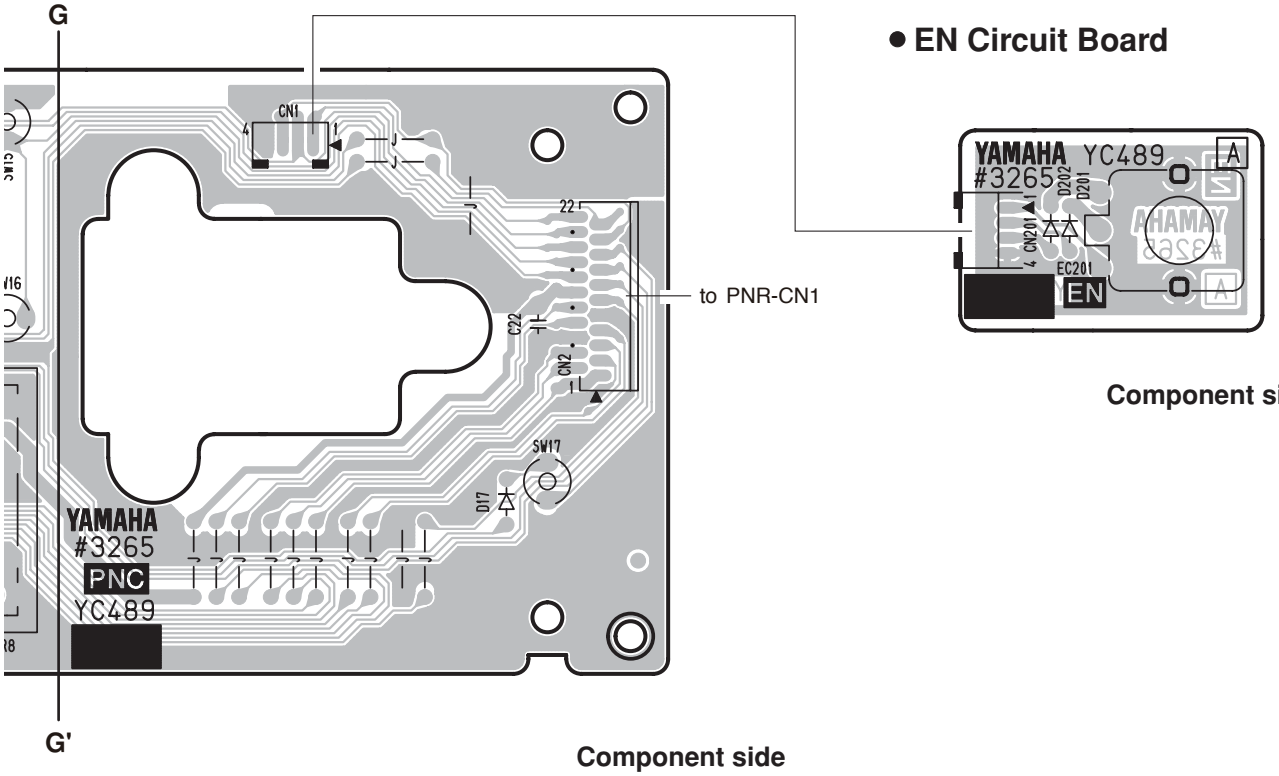
Pattern side

PNLS: 2NA-WT90240
USB: 2NA-WT90310

● PNC Circuit Board



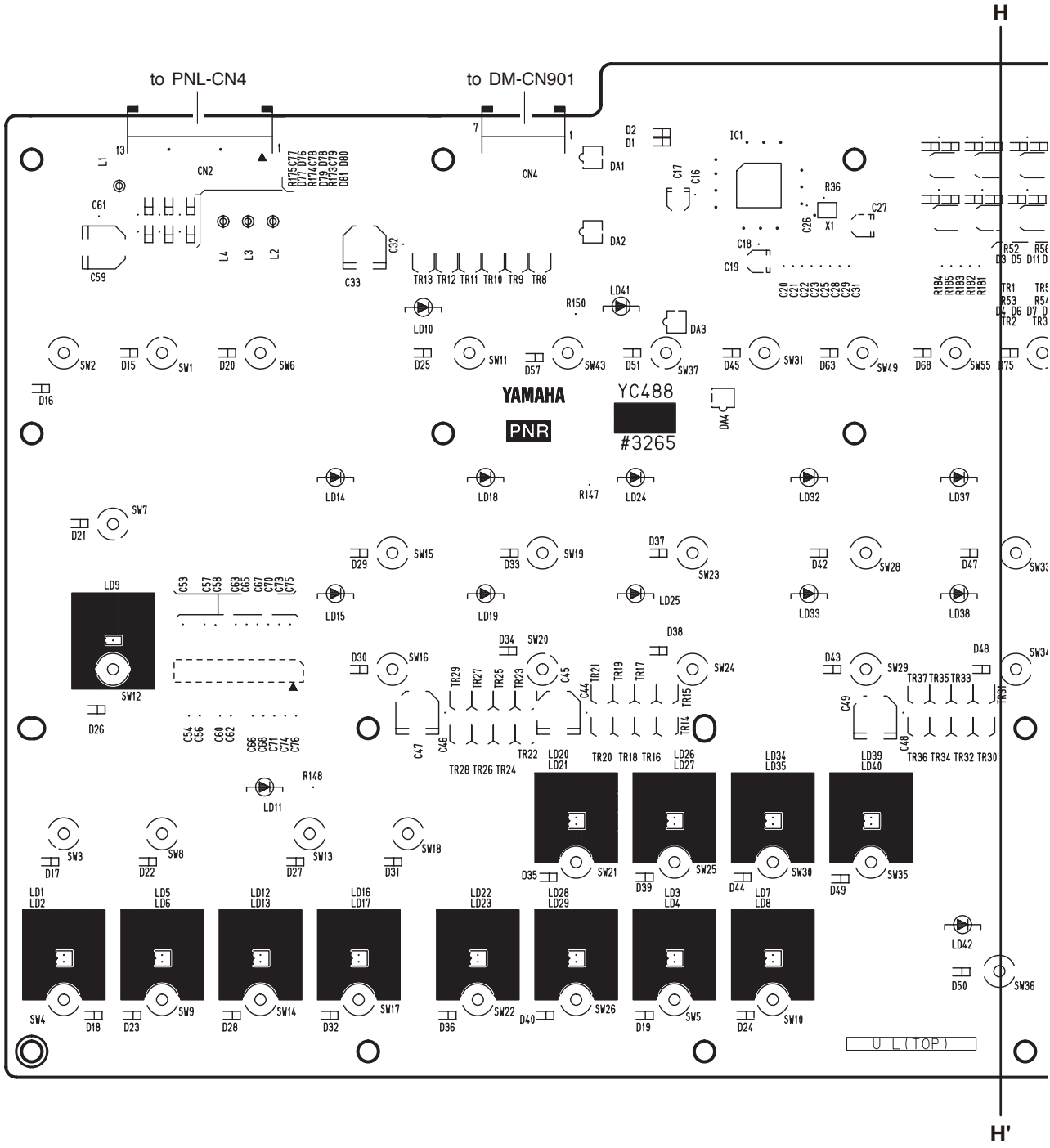
● EN Circuit Board

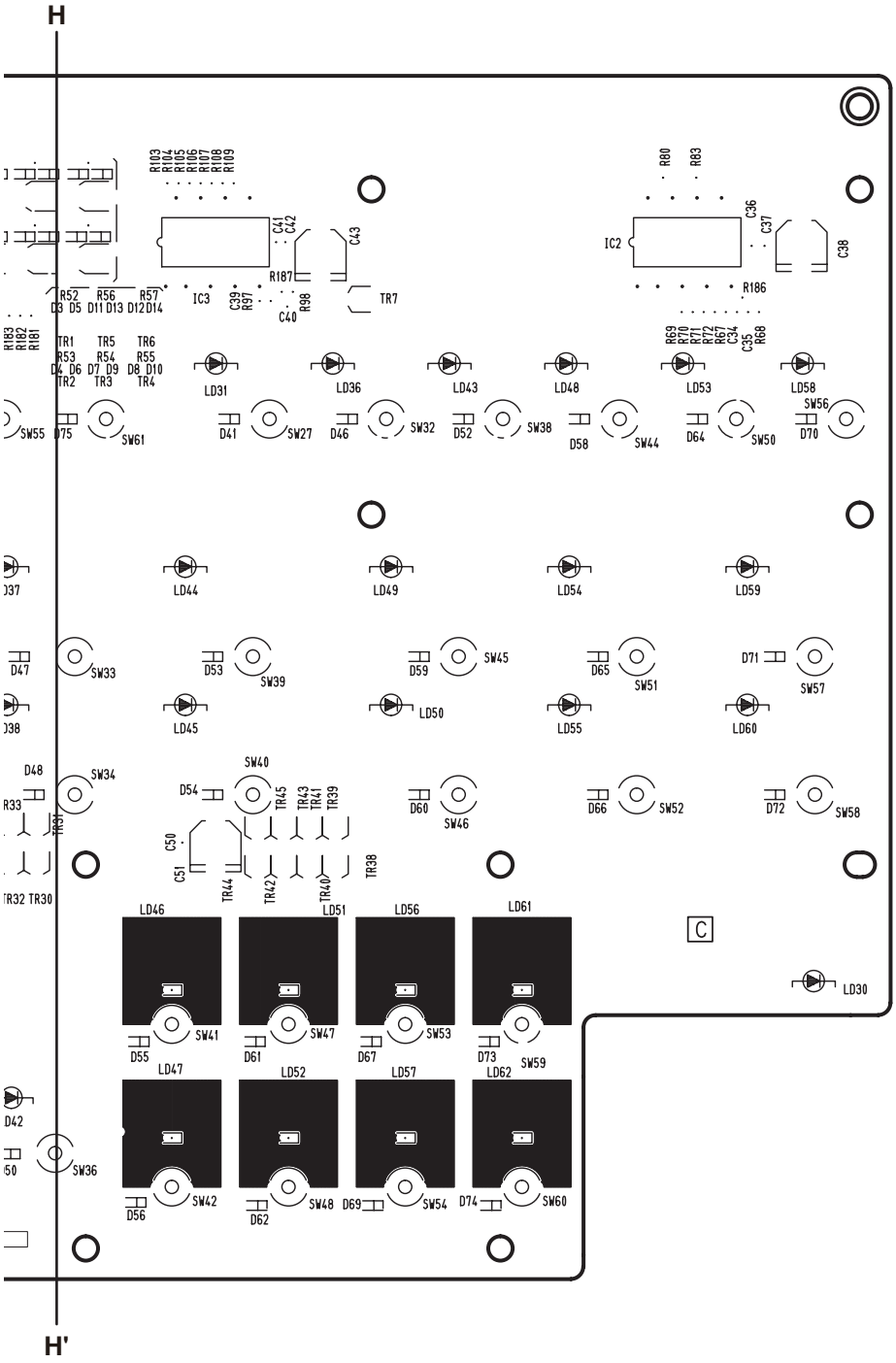


Component side

Component side

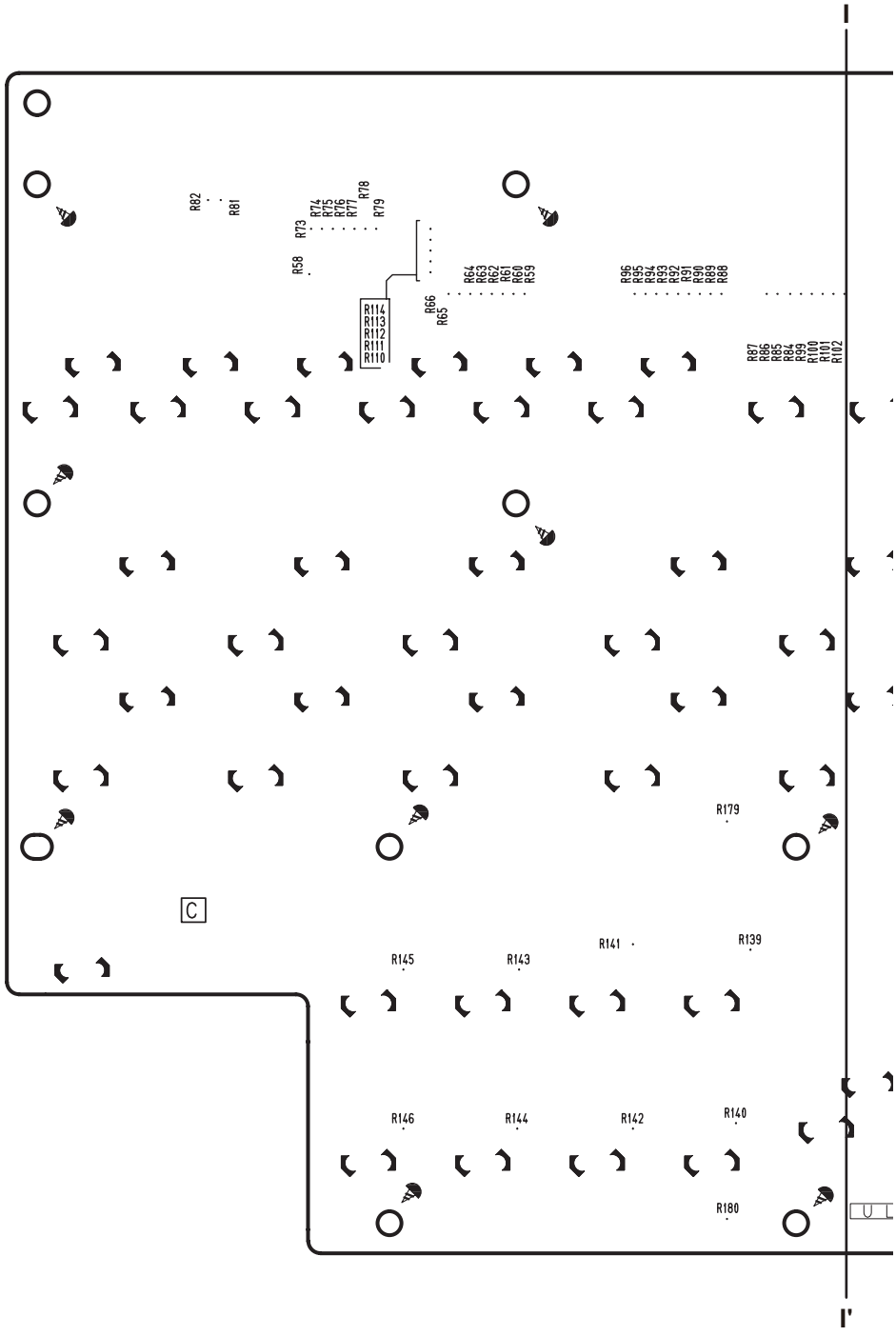
● PNR Circuit Board

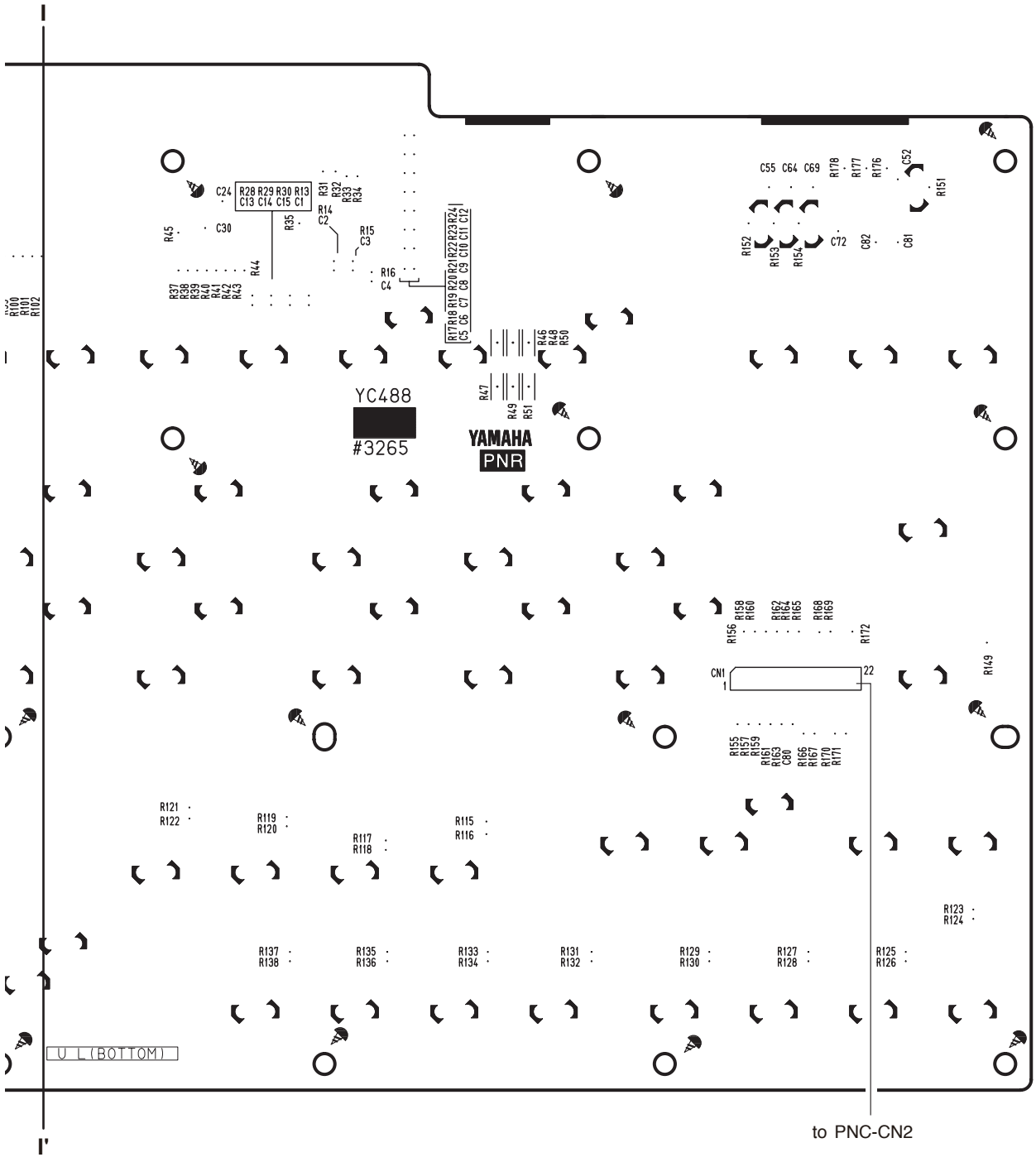




Component side

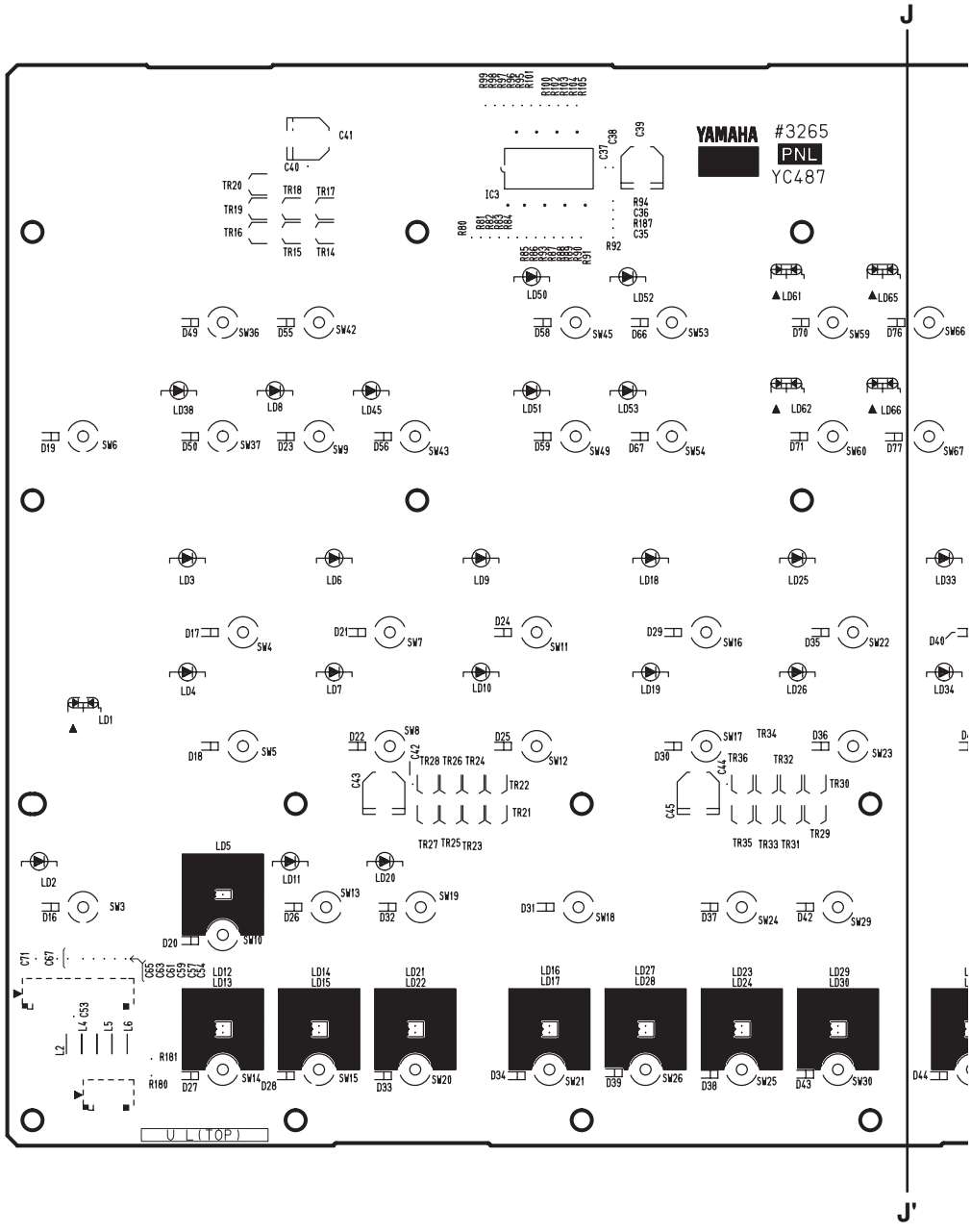
● PNR Circuit Board

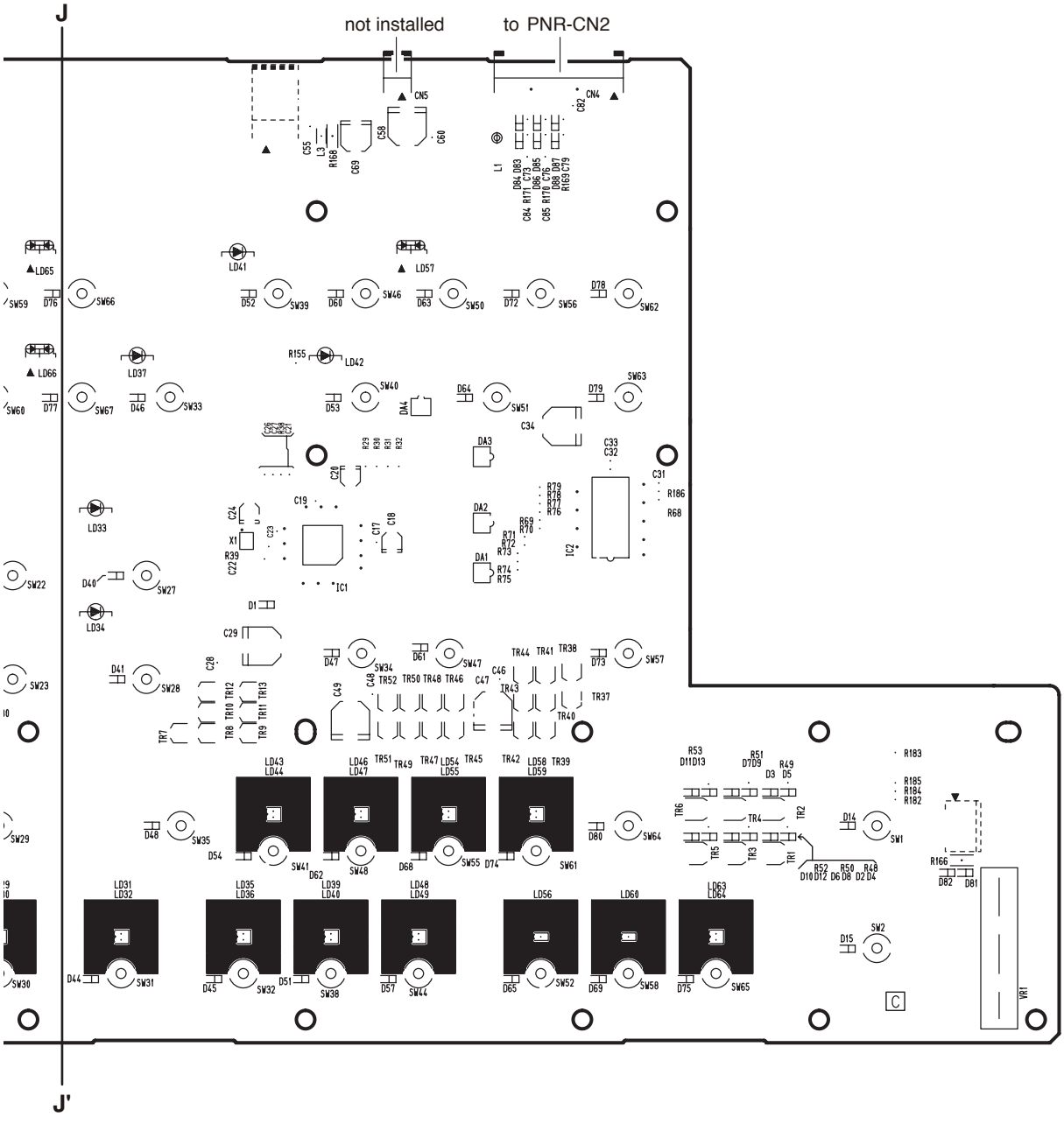




Pattern side

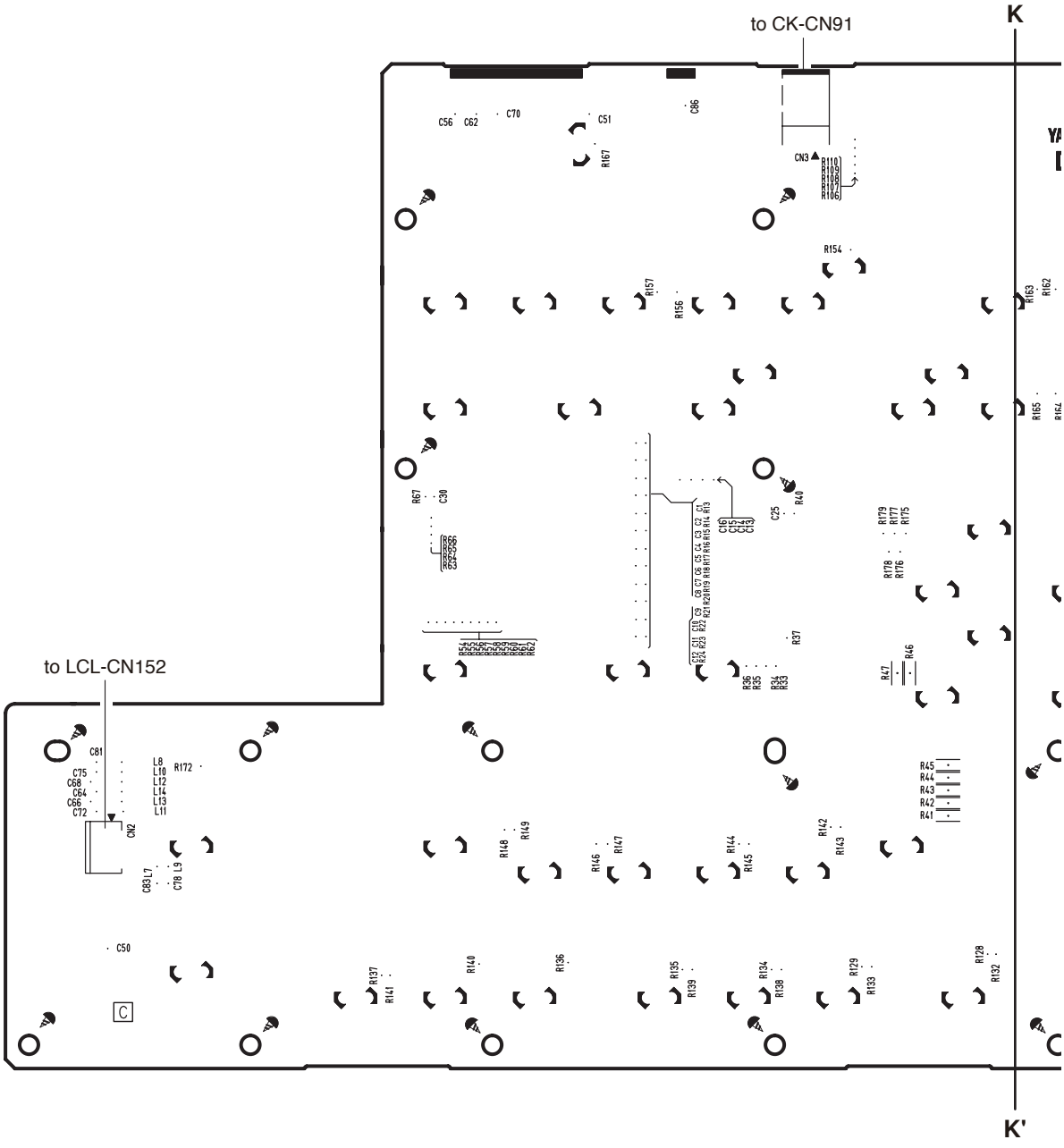
● PNL Circuit Board

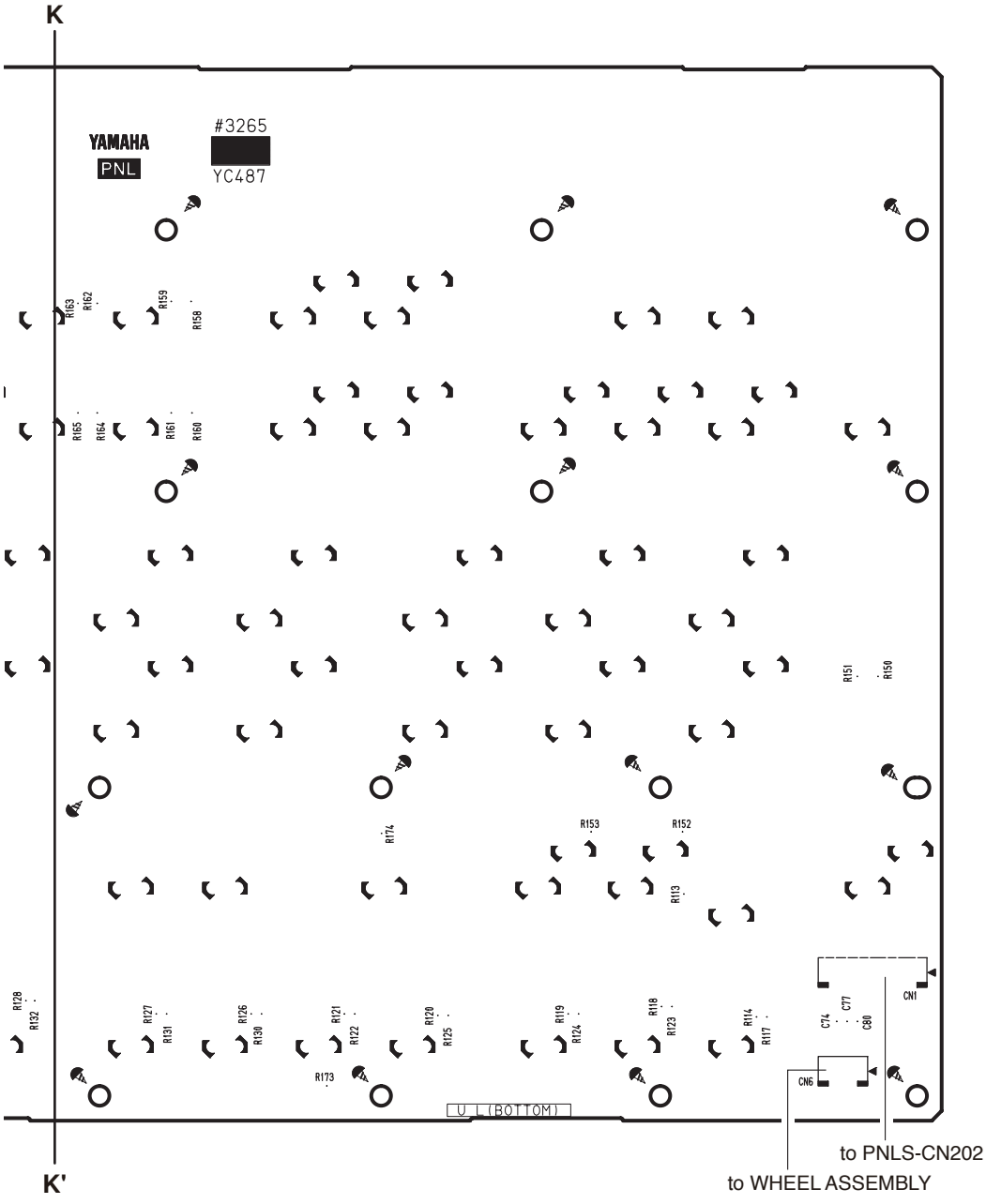




Component side

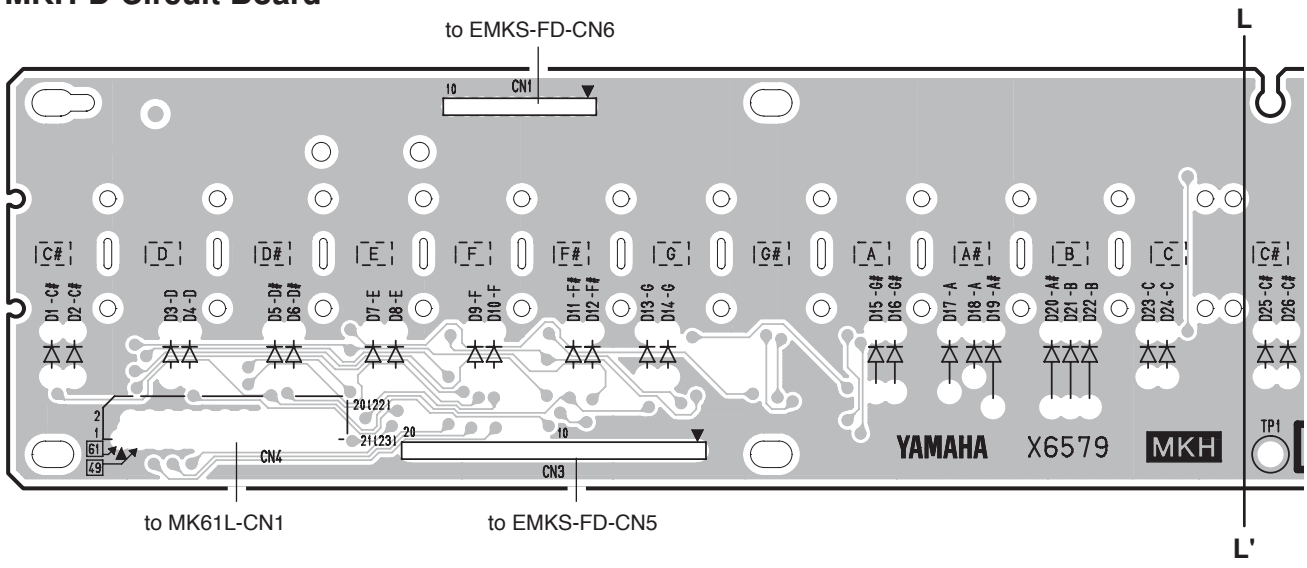
● PNL Circuit Board



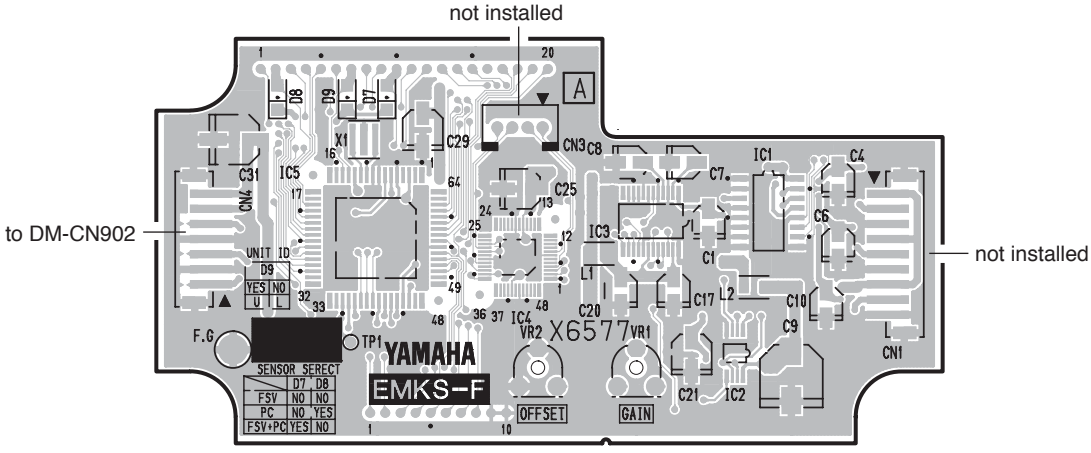


Pattern side

● MKH-D Circuit Board

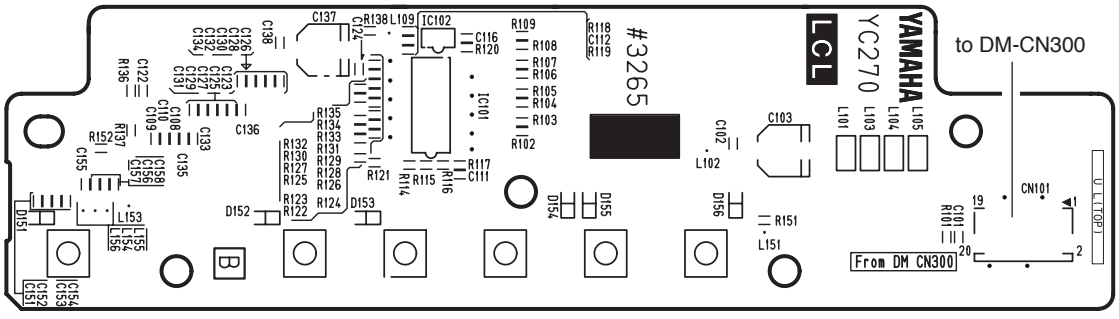


● EMKS-FD Circuit Board



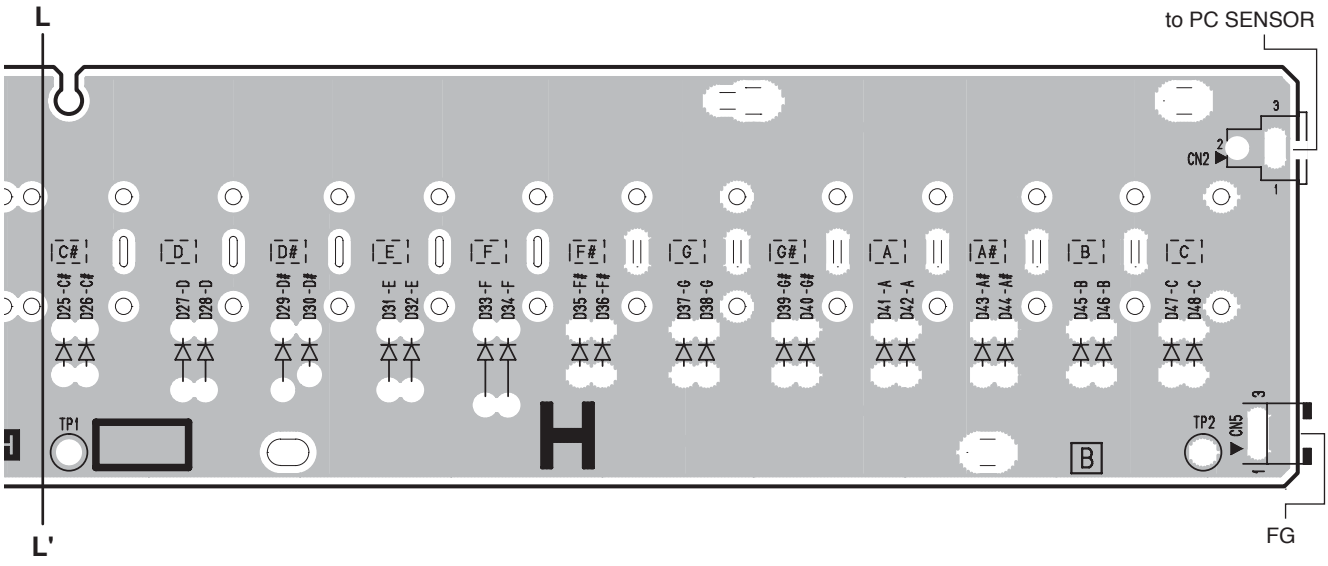
Component side

● LCL Circuit Board



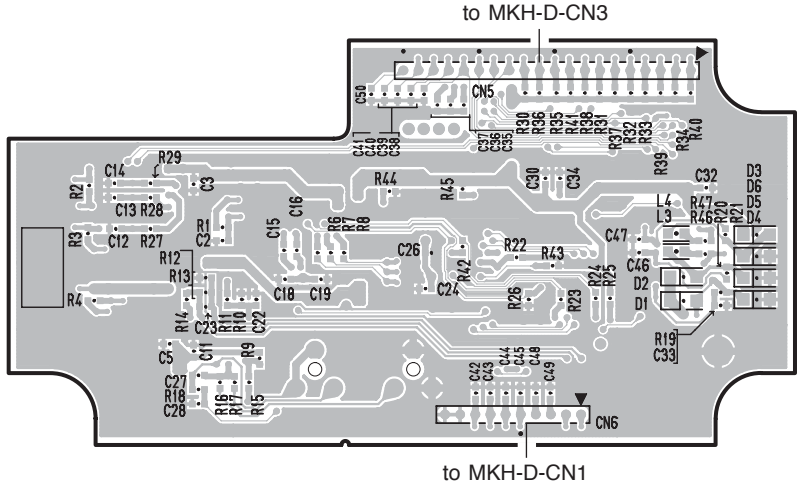
Component side

EMKS-FD: WE62240
LCL: 2NA-WT78420
MKH-D: 2NAKZ-WD78540 ⚠2



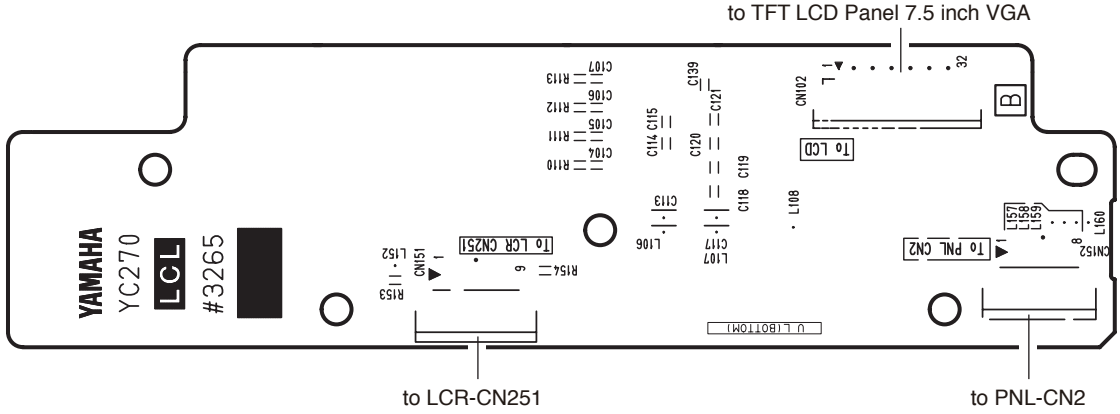
Component side

• EMKS-FD Circuit Board



Pattern side

• LCL Circuit Board



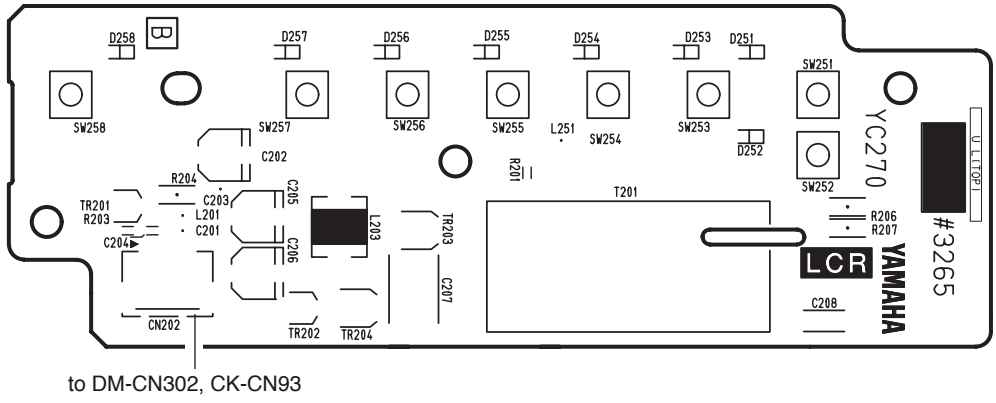
Pattern side

EMKS-FD: WE62240
LCL: 2NA-WT78420
MKH-D: 2NAKZ-WD78540 ⚠2

● MKH-D Circuit Board



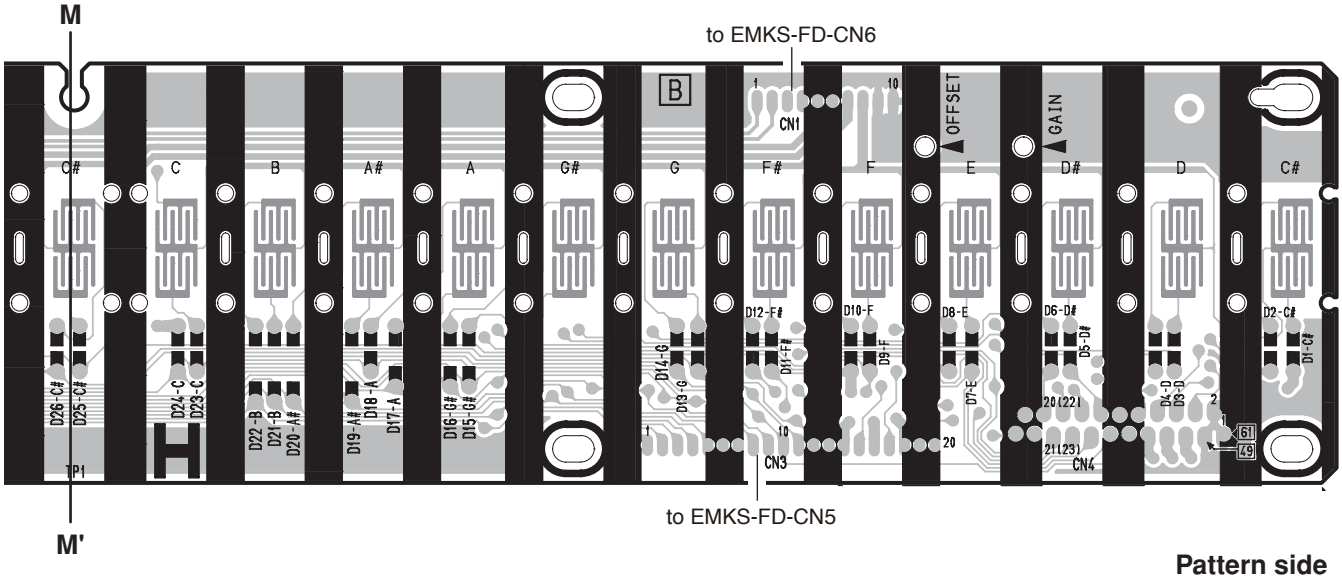
● LCR Circuit Board



to DM-CN302, CK-CN93

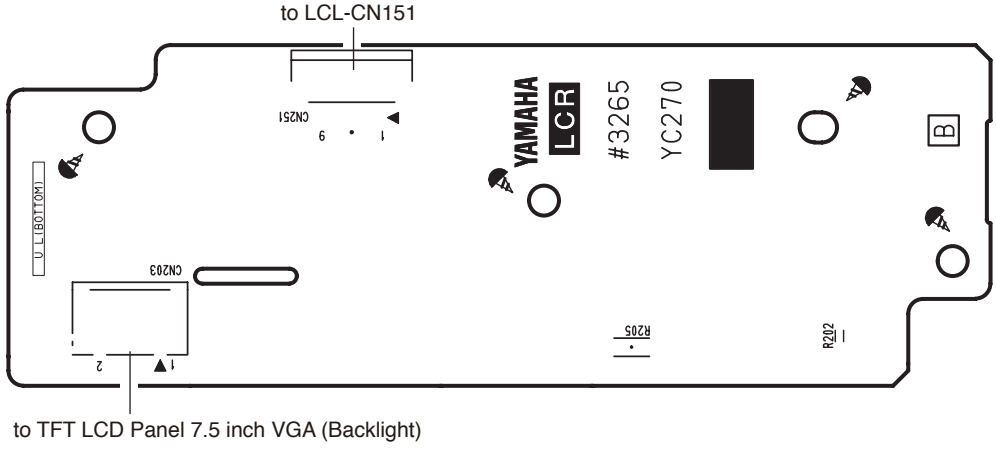
Component side

LCR: 2NA-WT78420
MKH-D: 2NAKZ-WD78540 ⚠2



Pattern side

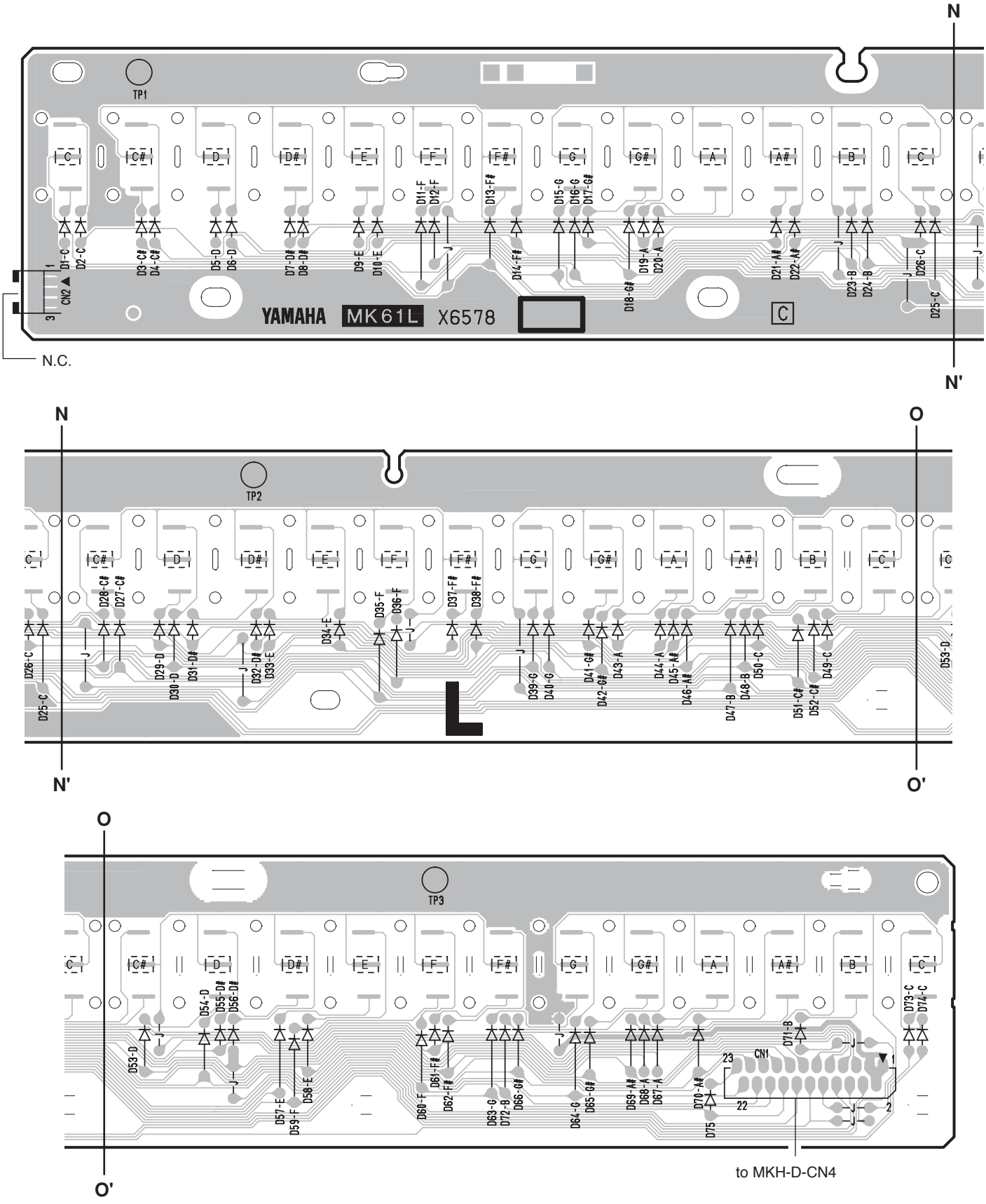
● LCR Circuit Board



Pattern side

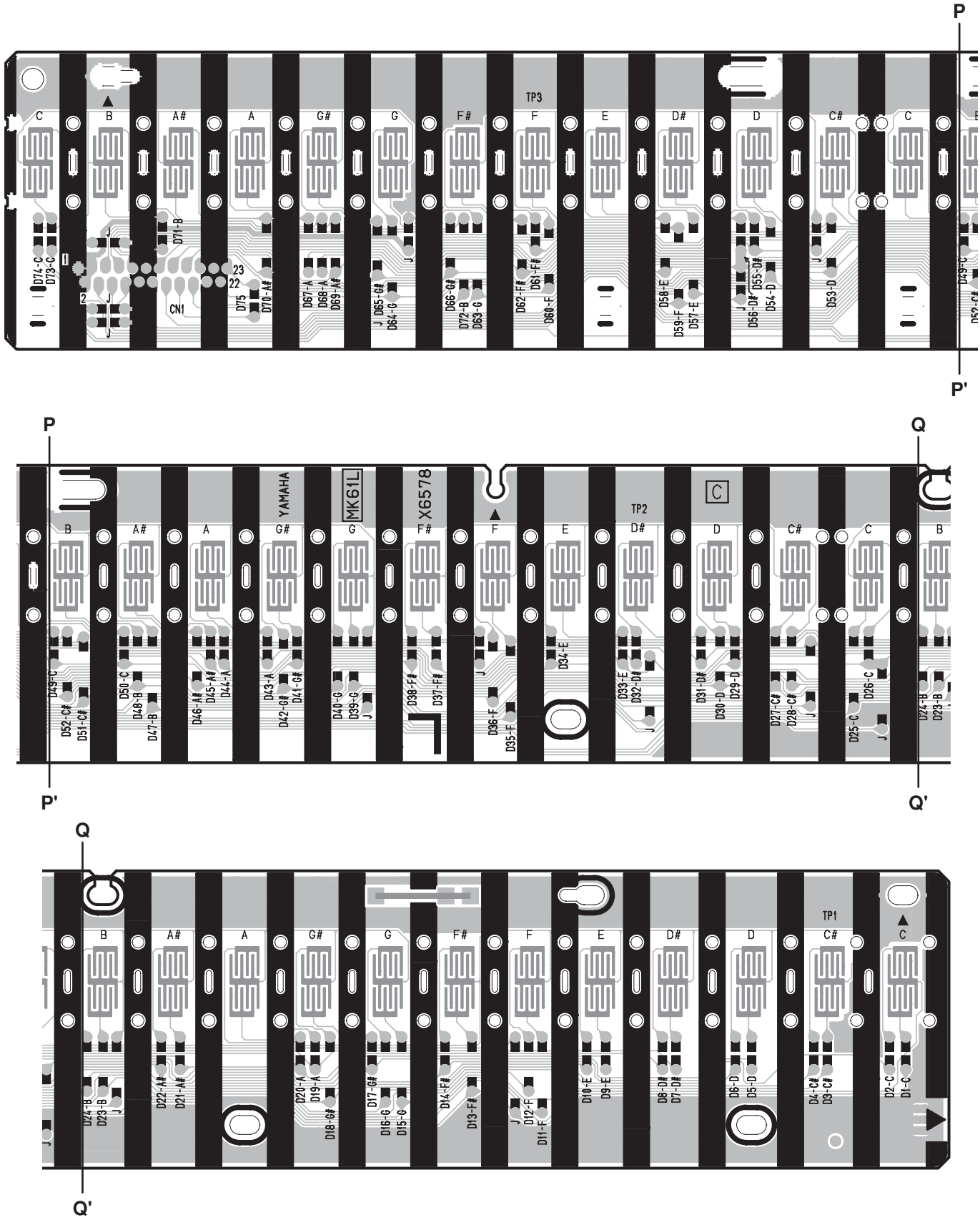
LCR: 2NA-WT78420
MKH-D: 2NAKZ-WD78540 ⚠2

● MK61L Circuit Board



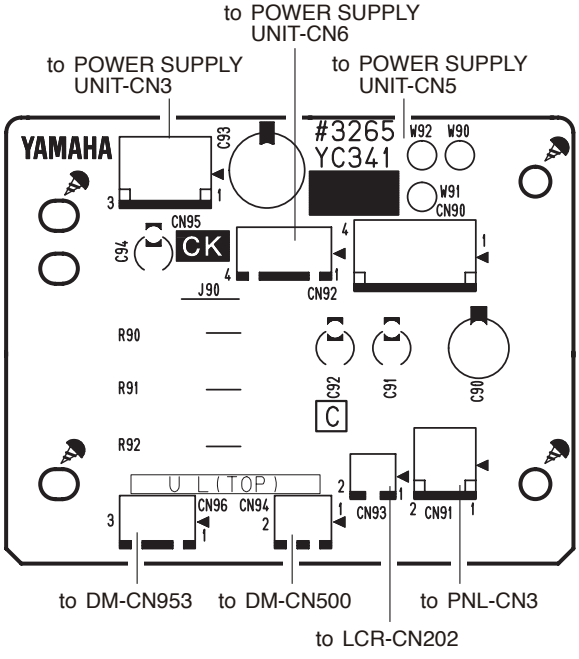
Component side

● MK61L Circuit Board

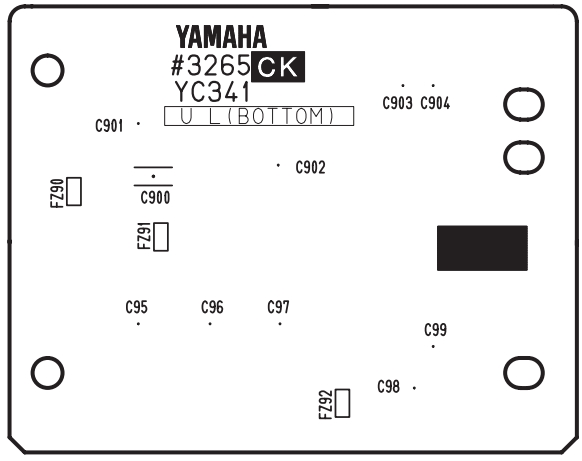


Pattern side

• CK Circuit Board

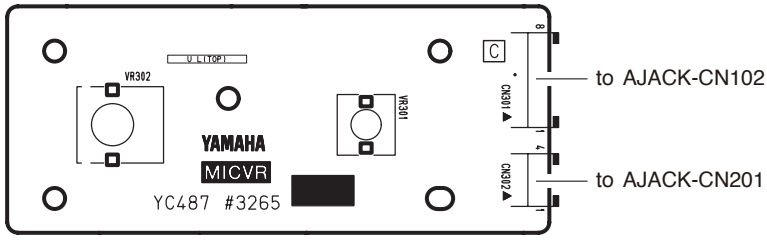


Component side

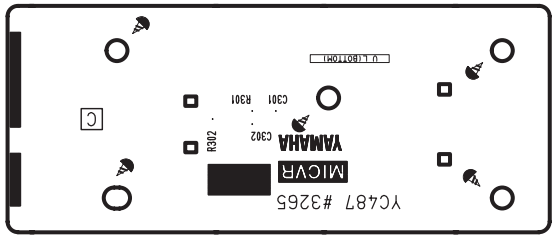


Pattern side

• MICVR Circuit Board



Component side



Pattern side

CK: 2NA-WT90150
MICVR: 2NA-WT90240

TEST PROGRAM

1 Measurement Conditions

1-1: Measuring Instruments

- Low-frequency oscillator
- Level meter (JIS-C curve)
- Frequency counter, which can detect hundredth value or more
- Oscilloscope

1-2: Jig

- Stereo PHONE jack cable (33 Ω or 30 Ω load)
- Monaural PHONE jack cable (10 k Ω load), 2 pcs. used simultaneously
- Mini DIN 8-pin cable (470 Ω load)
- Video cable (75 Ω coaxial)
- USB cable (type AB)
- Color CRT monitor (RGB input compatible)
- Microphone
- Optional speaker (TRS-MS04 or equivalent)
- MIDI cable, 2 pcs. used simultaneously
- Mini D-Sub15 pin RGB cable
- Color CRT monitor (NTSC and PAL system compatible)
- Foot pedal (FC7 or equivalent)
- Headphone
- Router (BUFFALO: BHR-4RV or eguivalent)
- Flash memory expansion module (FL1024M or equivalent)
- USB-Storage device (YD-8U10, or any USB-Storage device with read/write enable compatible with USB2.0)

1-3: Others

- The tolerance shall be within ±2 dB
- The unit for analog input/output level is as follows:
  0 dBu = 0.775 Vrms

2 Starting up the test program

* Install the flash memory expansion module before turning on the power of Tyros4. (P. 25)

* Before starting checking, format the HDD referring to the “FORMATTING HDD” (P. 101).

Turn on the [POWER] switch while holding down the [C#2], [F2], and [G#2] keys (C#2 major code). (Fig. 1)

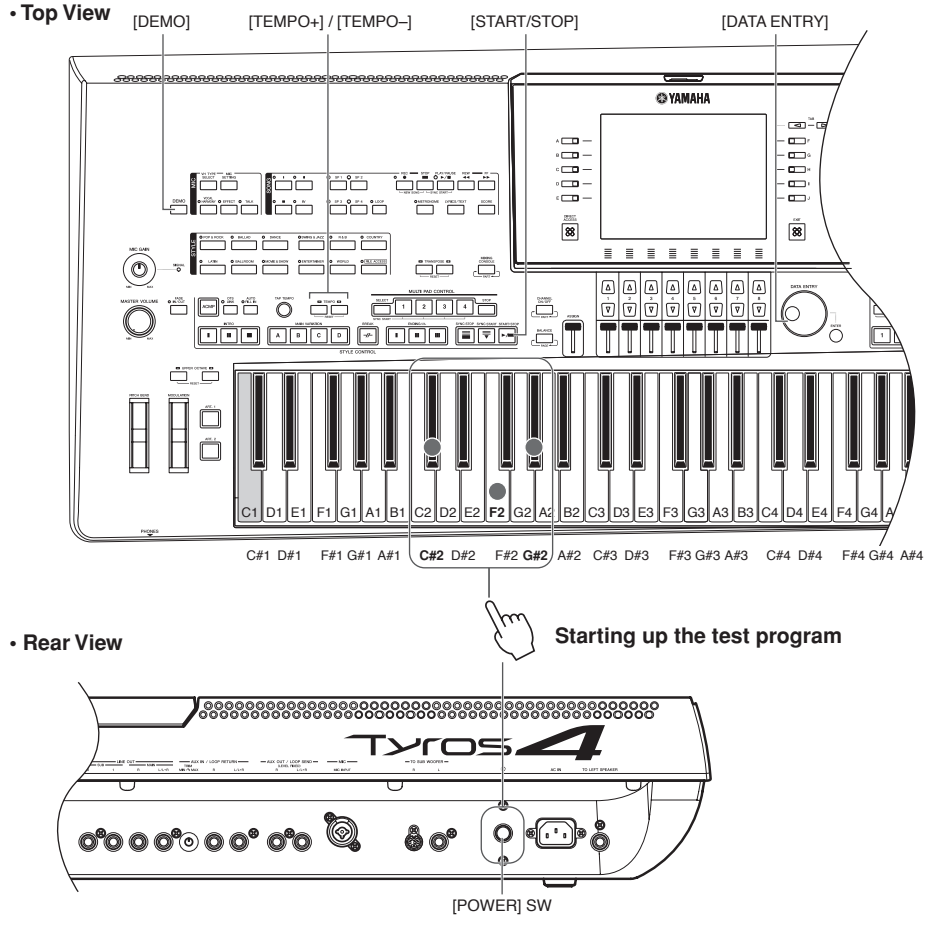


Fig. 1

Start-up screen (normal state)

```
TEST

Device Connection Check
[Int. HDD]:Device found
[Exp. Module]:Device found
```

Start-up screen (when an error is detected)

```
TEST
SwErr:xxx. yyy

Device Connection Check
[Int. HDD]:No Device
[Exp. Module]:No Device
```

xxx and yyy : Codes of pressed switch

"SwErr"
(A panel switch is being pressed. Displays up to two codes for panel switch held down in four figures in hexadecimal notation.)

"[Int. HDD] : No Device"
(No HDD is installed.)

"[Exp. Module] : No Device"
(No flash memory expansion module is installed.)

2-1: How to carry out tests

1) When the test program is started, **"TEST"** will be displayed.
2) To increase test item number: Press the [TEMPO+] button or turn the [DATA ENTRY] dial clockwise. (Fig. 1)
To decrease test item number: Press the [TEMPO–] button or turn the [DATA ENTRY] dial counterclockwise. (Fig. 1)
To execute the test: Press the [START/STOP] button once. (Fig. 1)
Indication of "--" underneath of each test items is shown as progressing the test and in case of asterisks "∗" is shown as progress bar when the test takes time such as "Memory Check1 All", "Backup ROM Check1, 2", "Wave ROM Check 2" etc.

- If the test result is OK:
Press the [START/STOP] button again to go back to the item selection display. (Fig. 1)
- If the test result is NG:
Press the lowest key (C1) on the keyboard or the [DEMO] button to go back to the item selection display. (Fig. 1)
([START/STOP] button is ineffective in case of NG)

• **Test Program Item List**

Number	Check item	Displayed Message	Automatic check
1	Version indication	Version	X
2	Simplified check of all memories	Memory Check1 All	O
3	Simplified check of ROM	ROM Check1	O
4	Simplified check of RAM	RAM Check1	O
5	Simplified check of Backup Flash ROM	BACKUP ROM Check1	O
6	Simplified check of Wave ROM	Wave ROM Check1	O
7	Simplified check of Effect RAM	Effect RAM Check1	O
8	Sound check of Tone Generator 1	TG 1 Check	X
9	Sound check of Tone Generator 2	TG 2 Check	X
10	SSP1 check	SSP1 Check	X
11	Pitch check	Pitch Check	X
12	Output Level R check	Output R Check	X
13	Output Level L check	Output L Check	X
14	Output Level Sub-1 check	Output Sub-1 Check	X
15	Output Level Sub-2 check	Output Sub-2 Check	X
16	EQ (Low) frequency check	EQ Low Check	X
17	EQ (Mid) frequency check	EQ Mid Check	X
18	EQ (High) frequency check	EQ High Check	X
19	SP MUTE check	SP MUTE Check	X
20	MUTE check	MUTE Check	X
21	MIC check	MIC Check	X
22	SIOF check	SIOF Check	X
23	SW, LED check	SW,LED Check	X
24	All Panel LEDs On check	All LED On Check	X
25	Red LEDs On check	Red LED On Check	X
26	Blue/Green LEDs On check	Blue/Green LED On Check	X
27	Other colors LEDs On check	Other LED On Check	X
28	Whole LCD On check	All LCD On Check	X
29	Whole LCD Off check	All LCD Off Check	X
30	LCD pattern check	LCD Pattern Check	X
31	Pitch Bend Wheel check	Pitch Bend Wheel Check	O
32	Modulation Wheel check	Modulation Wheel Check	O
33	Slider check	Slider Check	O
34	Pedal 1 check	Pedal 1 Check	O
35	Pedal 2 check	Pedal 2 Check	O
36	Pedal 3 check	Pedal 3 Check	O
37	MIDI check	MIDI Check	O
38	Loop Send/Return check	Loop Send/Return Check	X
39	Sub Out connection check	Sub Out Check	O
40	Video Out check (NTSC RGB)	Video Out NTSC RGB	X
41	Video Out check (PAL RGB)	Video Out PAL RGB	X
42	RGB Out check	RGB Out Check	X
43	USB to Device/Host check	USB to Device/Host Check	O
44	USB Storage Device check	USB Storage Device Check	O
45	USB-HDD check	Internal HDD Check	O
46	LAN check	LAN Check	O
47	Keyboard Type check	Keyboard Type Check	O
48	Touch check	Touch Check	O
49	Flash Memory Expansion Module check	Exp. Module Check	O
50	Full check of ROM	ROM Check2	O
51	Full check of RAM	RAM Check2	O
52	Full check of Backup Flash ROM	BACKUP ROM Check2	O
53	Full check of Wave ROM	Wave ROM Check2	O
54	Full check of Effect RAM	Effect RAM Check2	O
55	Panel PCB check (PNL)	Panel PCB Check (PNL)	X
56	Panel PCB check (LCL)	Panel PCB Check (LCL)	X
57	Panel PCB check (LCR)	Panel PCB Check (LCR)	X
58	Panel PCB check (PNC)	Panel PCB Check (PNC)	X
59	Panel PCB check (PNR)	Panel PCB Check (PNR)	X
60	Panel PCB check (LCL/R/C)	Panel PCB Check (LCL/R/C)	X
61	Factory Set	Factory Set	X
62	Test Exit	Test Exit	X

Test 1

Function: Version indication

Description:

Displays version of program/data.

Use the TAB [◁]/[▷] keys to switch between plural pages.

Displayed Message:

```
001:Version
```

Selected screen

```
Model Name    :TYROS4 (E) -r
Main Program  :1.00
SSP1 Program  :1.00
Bitmap        :1.00
Contents1     :1.00
Contents2     :1.00
Wave          :1.00
```

Page 1 (Example)

```
Main Boot     :1.00
```

Page 2

Supplement:

Indicates model name (destination) and program/data versions.

If ErP is supported, the Model Name is "TYROS4 (E)-r".

If ErP is not supported, the Model Name is "TYROS4 (E)" without the suffix "-r".

"0.00" will be shown if the version is not recognized correctly.

Test 2

Function: Simplified check of all memories

Description:

Executes the following five tests in sequence.

- Test 3: ROM Check1
- Test 4: RAM Check1
- Test 5: Backup ROM Check1
- Test 6: Wave ROM Check1
- Test 7: Effect RAM Check1

(Tests 3 – 7 are performed automatically in sequence, but the check stops when NG is detected.)

It will take about 15 seconds for the check.

* The check cannot be aborted until OK/NG result is indicated.

Displayed Message:

```
002:Memory Check1 All
```

Selected screen

```
002:Memory Check1 All
OK
```

In case of OK

```
002:Memory Check1 All
MAIN DATA ROM (IC19) NG
```

In case of NG (Example)

Supplement:

In case of NG, the location and the IC number of which NG is detected will be shown.

"No Dev." will be shown if SSP1 PROG is not detected.

For each memory error indication, refer to the detail contents of each test (Test 3 – 7) below.

Test 3

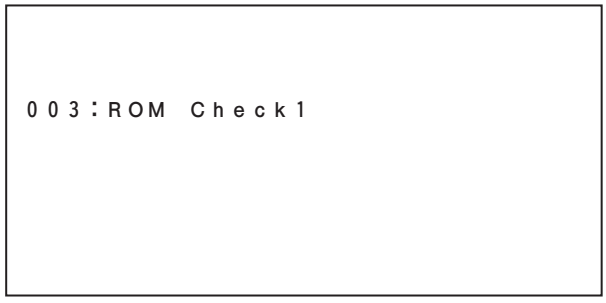
Function: Simplified check of ROM

Description:

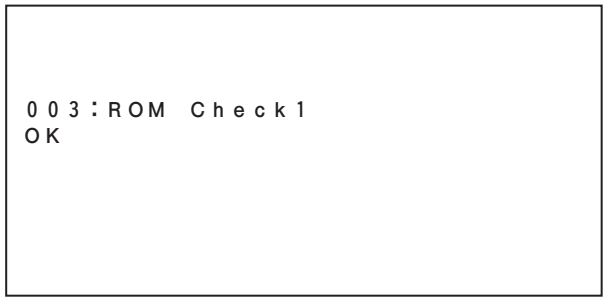
Executes Read test (checksum test) of ROM.

Executes Write pin check of Program Flash ROM as well.

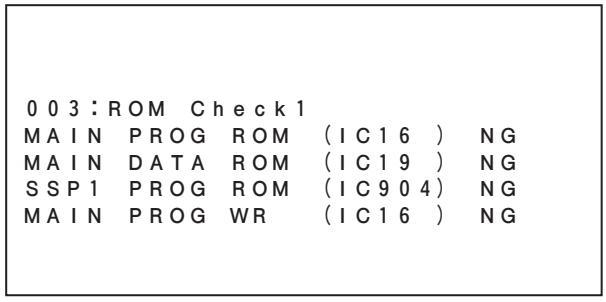
Displayed Message:



Selected screen



In case of OK



In case of NG (Example)

Supplement:

In case of NG, the location and the IC number of which NG is detected will be shown.

"No Dev." will be shown if SSP1 PROG is not detected.

Error Indications	Circuit Board	Location	Name in Circuit Diagram
MAIN PROG ROM NG	DM	IC16	FLASH ROM 256 M PROGRAM
MAIN PROG WR NG			
MAIN DATA ROM NG	DM	IC19	FLASH ROM 512 M DATA
SSP1 PROG ROM NG	DM	IC904	FLASH ROM 16 M SSP1-PROGRAM
SSP1 PROG ROM No Dev.			

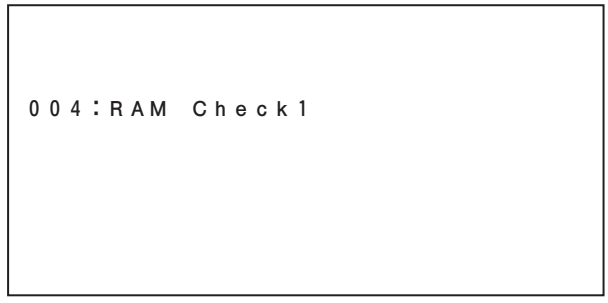
Test 4

Function: Simplified check of RAM

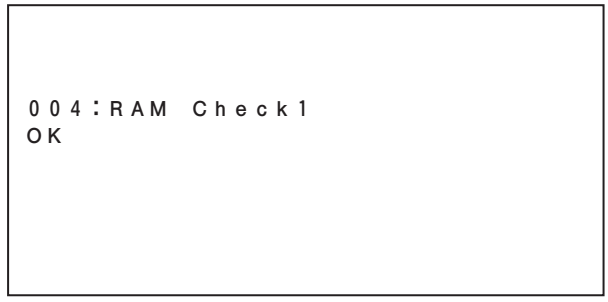
Description:

Executes Read/Write test (connection check) of RAM.

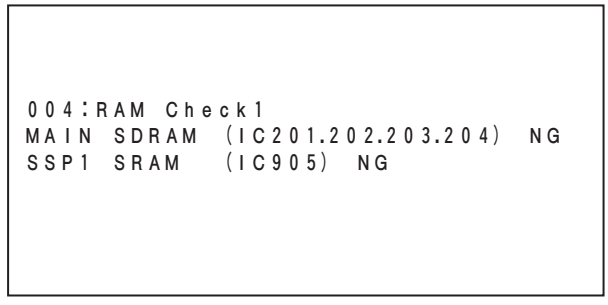
Displayed Message:



Selected screen



In case of OK



In case of NG

Supplement:

In case of NG, the location and the IC number of which NG is detected will be shown.

If sound board is not recognized, **"No Dev."** will be shown for SSP1 SRAM.

Error Indications	Circuit Board	Location	Name in Circuit Diagram
MAIN SDRAM NG	DM	IC201 -204	SDRAM 128 M SDRAM 128 M
SSP1 SRAM NG	DM	IC905	SRAM 4 M
SSP1 SRAM No Dev.			

Test 5

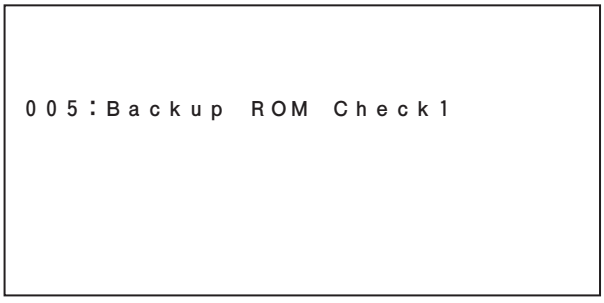
Function: Simplified check of Backup ROM

Description:

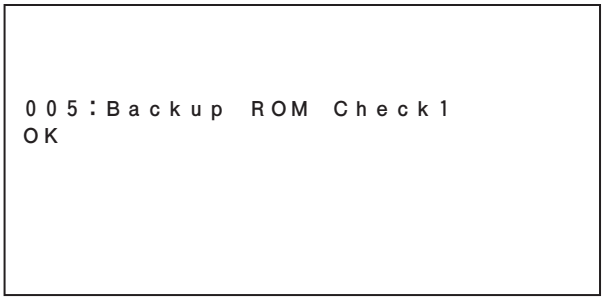
Executes Read/Write test (connection check) of Backup Flash ROM. It will take about 15 seconds for the check.

* The check cannot be aborted until OK/NG result is indicated.

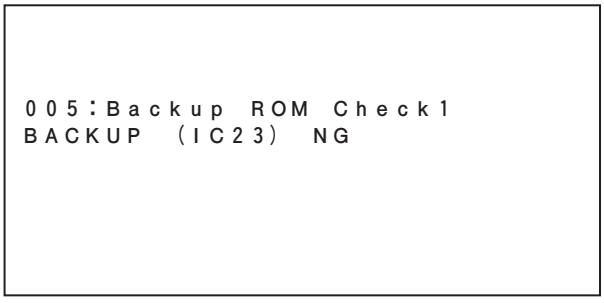
Displayed Message:



Selected screen



In case of OK



In case of NG

Supplement:

The check cannot be aborted until OK/NG result is indicated.

Original data will be written back after the test is executed.

Do not turn off the power during checking or the data will be lost.

Error Indications	Circuit Board	Location	Name in Circuit Diagram
BACKUP NG	DM	IC23	FLASH ROM 64 M BACKUP

Test 6

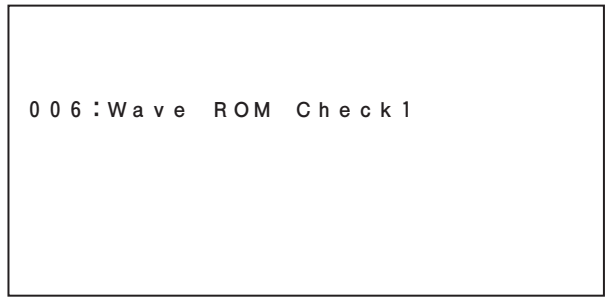
Function: Simplified check of Wave ROM

Description:

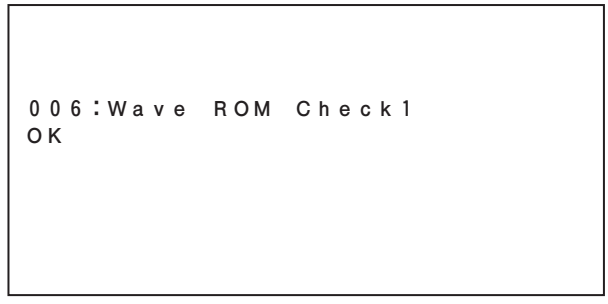
Executes Read test (checksum test) of Wave ROM.

As the Wave ROM is shared by TG1 (Master) and TG2 (Slave), the check is performed from both sides.

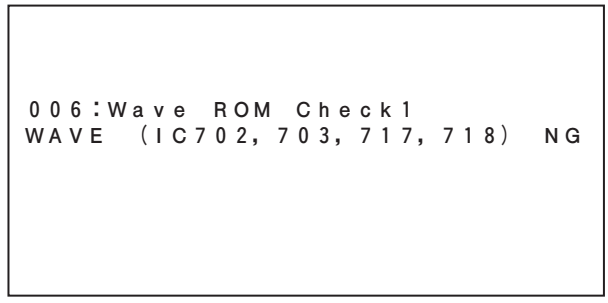
Displayed Message:



Selected screen



In case of OK



In case of NG

In case of NG, the location and the IC number of which NG is detected will be shown.

Error Indications	Circuit Board	Location	Name in Circuit Diagram
WAVE NG	DM	IC702	WAVE ROM H0 1G
		IC703	WAVE ROM H1 1G
		IC717	WAVE ROM L0 1G
		IC718	WAVE ROM L1 1G

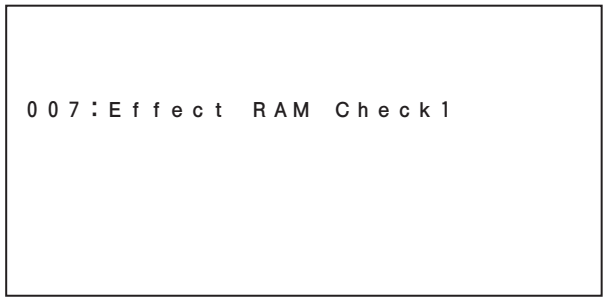
Test 7

Function: Simplified check of Effect RAM

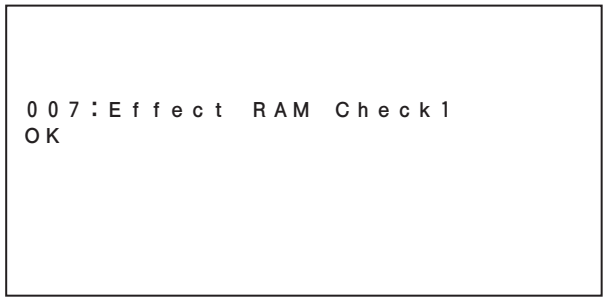
Description:

Checks RAM that works for Effect.

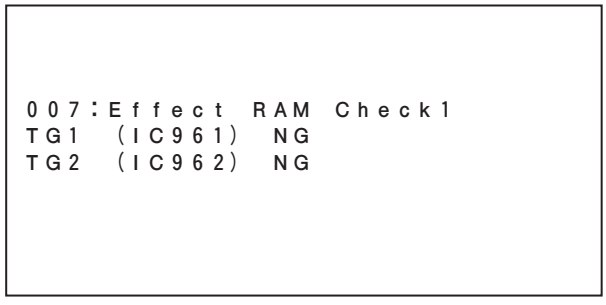
Displayed Message:



Selected screen



In case of OK



In case of NG

Supplement:

In case of NG, the location and the IC number of which NG is detected will be shown.

TG1 indicates Effect RAM of SWP51L Master (DM: IC701) and TG2 indicates Effect RAM of SWP51L Slave (DM: IC700).

Error Indications	Circuit Board	Location	Name in Circuit Diagram
TG1 NG	DM	IC961	SDRAM 64 M
TG2 NG	DM	IC962	SDRAM 64 M

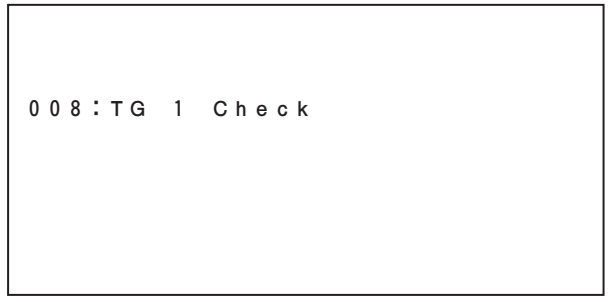
Test 8

Function: Sound check of the Tone Generator 1

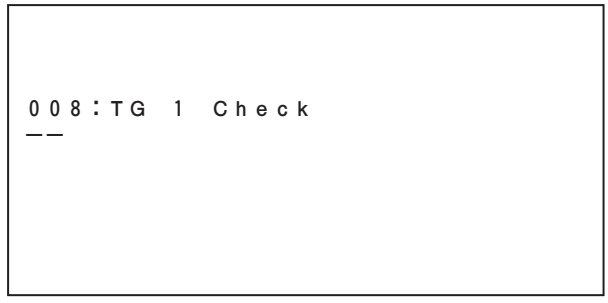
Description:

Sequentially outputs sounds starting from lower keys by switching the channel of the sound source at the SWP51 L Master side for checking sound generator and sound. Check that there is no abnormal sounds or noise.

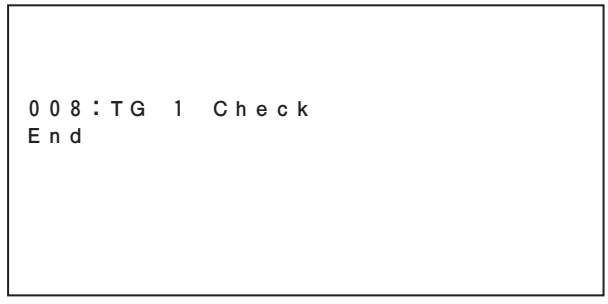
Displayed Message:



Selected screen



When a sound is being produced.



When the checking is finished.

Supplement:

Sound producing keyboard range is 32 notes from C2 to G4.

Number of sounds is 64.

Indications during Execution	Circuit Board	Location	Name in Circuit Diagram
TG1 Check --	DM	IC701	SWP51L MASTER
TG2 Check --	DM	IC700	SWP51L SLAVE

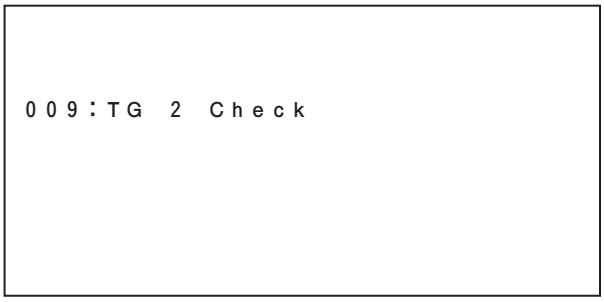
Test 9

Function: Sound check of the Tone Generator 2

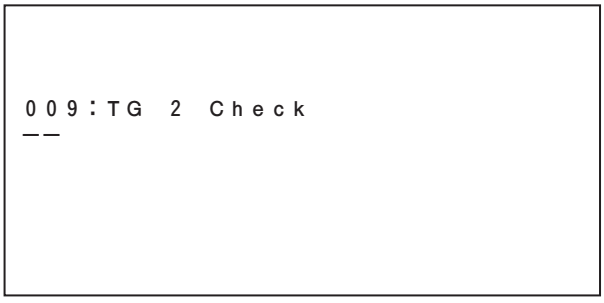
Description:

Sequentially outputs sounds starting from lower keys by switching the channel of the sound source at the SWP51L Slave side for checking sound generator and sound. Check that there is no abnormal sounds or noise.

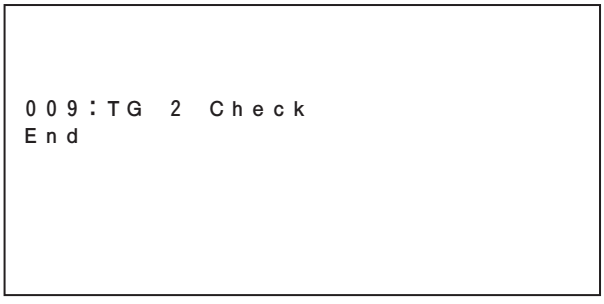
Displayed Message:



Selected screen



When a sound is being produced.



When the checking is finished.

Supplement:

Sound producing keyboard range is 32 notes from C2 to G4.

Number of sounds is 64.

Indications during Execution	Circuit Board	Location	Name in Circuit Diagram
TG1 Check --	DM	IC701	SWP51L MASTER
TG2 Check --	DM	IC700	SWP51L SLAVE

Test 10

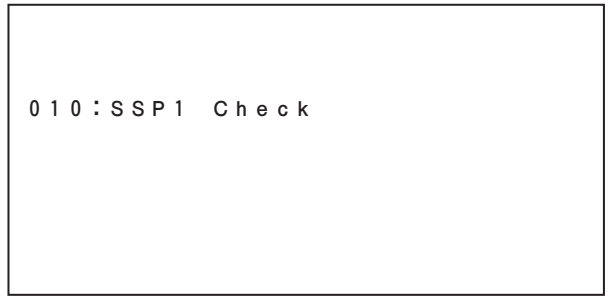
Function: SSP1 check

Description:

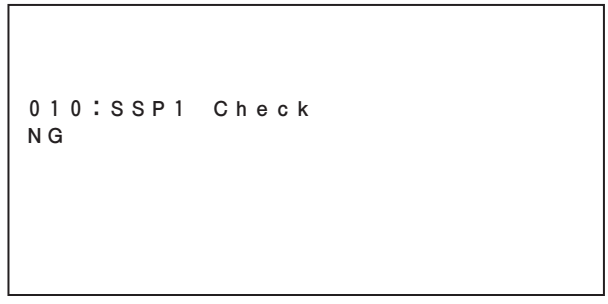
Executes the serial communications check of Main CPU and SSP1 chip.

The test result is OK and the sine wave C5 note sound will be produced.

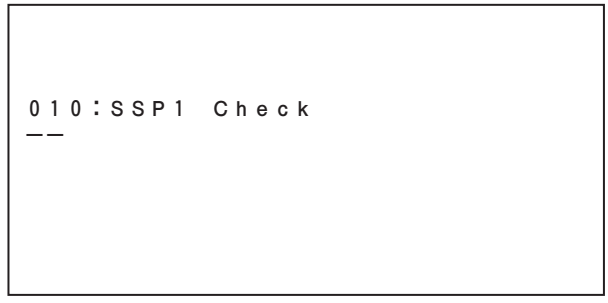
Displayed Message:



Selected screen



Serial communications check NG



When a sound is being produced.

Supplement:

Sound is stopped when the test item is quit.

Test 11

Function: Pitch check

Description:

Set the [MASTER VOLUME] to the maximum level.

Connect a frequency counter to the [PHONES] jack. (Either L or R)

(Load should be 33 Ω. (30 Ω is acceptable as well: -0.6 dB))

Confirm that the frequency counter shows "441.00±0.22 Hz".

- Amount of volume decay:

  Set the [MASTER VOLUME] to the minimum level.

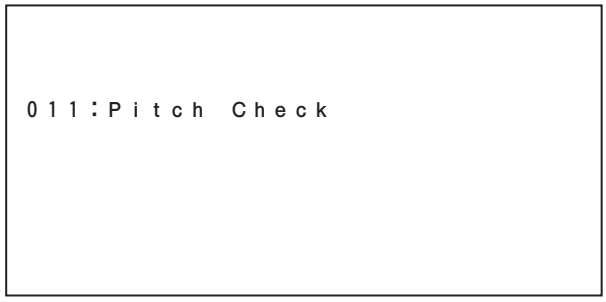
  Connect a level meter (JIS-C curve) to the L/R of [PHONES] terminal.

  (Load should be 33 Ω. (30 Ω is acceptable as well: -0.6 dB))

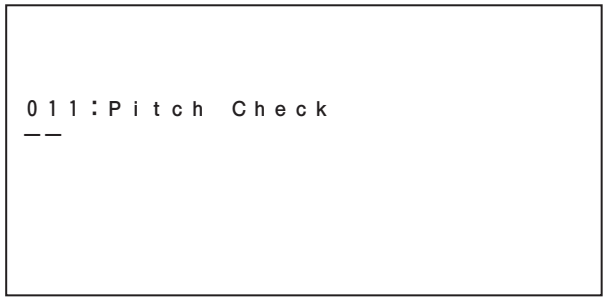
  • PHONES L: -60.0 dBu or less

  • PHONES R: -60.0 dBu or less

Displayed Message:



Selected screen



When a sound is being produced.

Supplement:

Sound is stopped when the test item is quit.

Test 12

Function: Output Level R check

Description:

Connect a level meter (JIS-C curve) to each jack. ([PHONES] L, R, [LINE OUT MAIN] L/L+R, R, [AUX OUT/LOOP SEND] L/L+R, R, [TO SUB WOOFER R] L, R)

Set the [MASTER VOLUME] to the maximum level and check the output level of the R channel.

[PHONES] L, R

(33 Ω load (30 Ω is acceptable as well: -0.6 dB))

• PHONES L: -45.0 dBu or less

• PHONES R: -1.5±2 dBu

[LINE OUT MAIN] L/L+R, R

(10 k Ω load (2 monaural jacks used simultaneously))

• LINE OUT MAIN L/L+R: -65.0 dBu or less

• LINE OUT MAIN R: +9.5±2 dBu

[AUX OUT/LOOP SEND] L/L+R, R

(10 k Ω load (2 monaural jacks used simultaneously))

• AUX OUT/LOOP SEND L/L+R: -75.0 dBu or less

• AUX OUT/LOOP SEND R: +5.0±2 dBu

[TO SUB WOOFER R] L, R

(470 Ω load (L side: between 6P–3P, R side: between 5P–3P, GND: 3P))

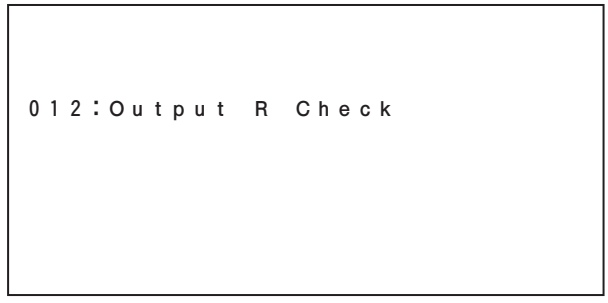
• TO SUB WOOFER R L: -55.0 dBu or less

• TO SUB WOOFER R R: +6.0±2 dBu

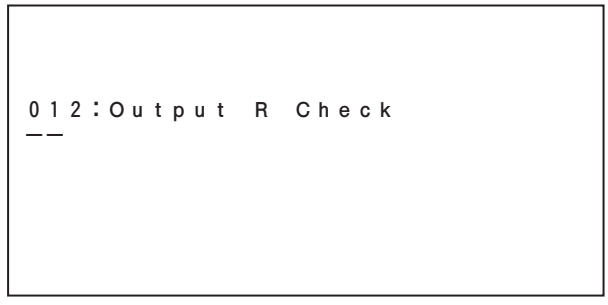
Disconnect the headphone and connect the optional speakers to the left and right speaker terminals.

Confirm that the sound comes out only right speaker.

Displayed Message:



Selected screen



When a sound is being produced.

Supplement:

Sound is stopped when the test item is quit.

Test 13

Function: Output Level L check

Description:

Connect a level meter (JIS-C curve) to each jack. ([PHONES] L, R, [LINE OUT MAIN] L/L+R, R, [AUX OUT/LOOP SEND] L/L+R, R, [TO SUB WOOFER R] L, R)

Set the [MASTER VOLUME] to the maximum level and check the output level of the L channel.

[PHONES] L, R
(33 Ω load (30 Ω is acceptable as well: -0.6 dB))
- PHONES L: -1.5±2 dBu
- PHONES R: -45.0 dBu or less

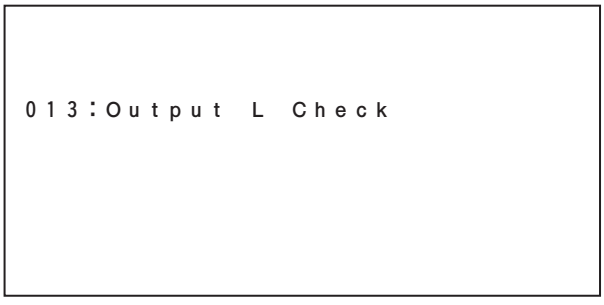
[LINE OUT MAIN] L/L+R, R
(10 k Ω load (2 monaural jacks used simultaneously))
- LINE OUT MAIN L/L+R: +9.5±2 dBu
- LINE OUT MAIN R: -65.0 dBu or less

[AUX OUT/LOOP SEND] L/L+R, R
(10 k Ω load (2 monaural jacks used simultaneously))
- AUX OUT/LOOP SEND L/L+R: +5.0±2 dBu
- AUX OUT/LOOP SEND R: -75.0 dBu or less

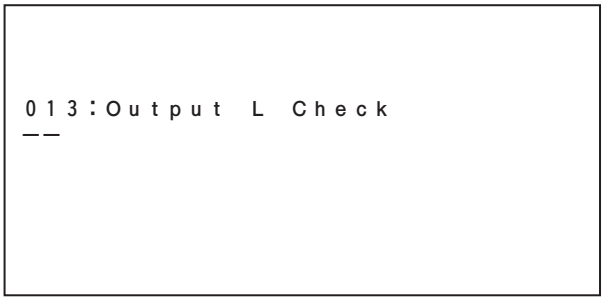
[TO SUB WOOFER R] L, R
(470 Ω load (L side: between 6P–3P, R side: between 5P–3P, GND: 3P))
- TO SUB WOOFER R L: +6.0±2 dBu
- TO SUB WOOFER R R: -55.0 dBu or less

Disconnect the headphone and connect the optional speakers to the left and right speaker terminals.
Confirm that the sound comes out only left speaker.

Displayed Message:



Selected screen



When a sound is being produced.

Supplement:

Sound is stopped when the test item is quit.

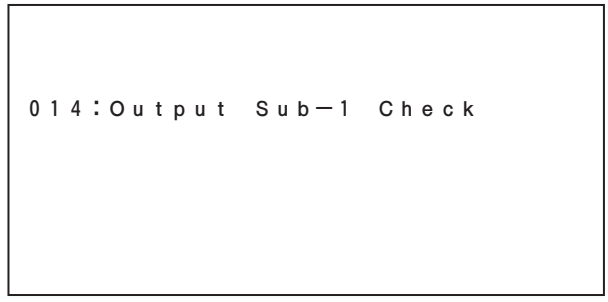
Test 14

Function: Output Level Sub-1 check

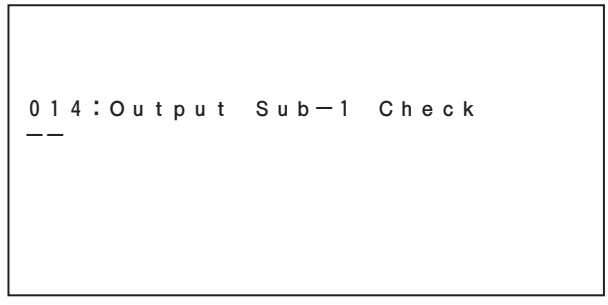
Description:

Set the [MASTER VOLUME] to the maximum level.
Connect a level meter (JIS-C curve) to the SUB1/SUB2 of [LINE OUT] terminal. (Load should be 10 k Ω)
- LINE OUT SUB1: +3.0±2 dBu
- LINE OUT SUB2: -75.0 dBu or less

Displayed Message:



Selected screen



When a sound is being produced.

Supplement:

Sound is stopped when the test item is quit.

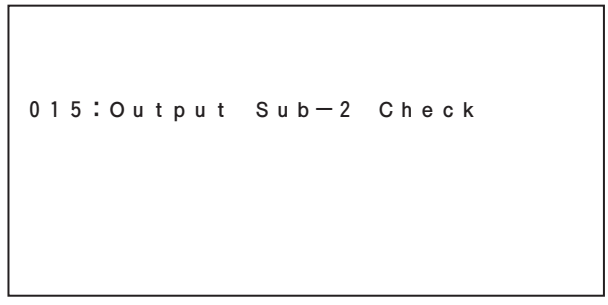
Test 15

Function: Output Level Sub-2 check

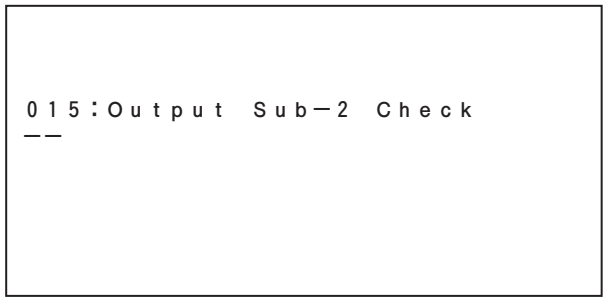
Description:

Set the [MASTER VOLUME] to the maximum level.
Connect a level meter (JIS-C curve) to the SUB1/SUB2 of [LINE OUT] terminal. (Load should be 10 k Ω.)
- LINE OUT SUB1: -75.0 dBu or less
- LINE OUT SUB2: +3.0±2 dBu

Displayed Message:



Selected screen



When a sound is being produced.

Supplement:

Sound is stopped when the test item is quit.

Noise Level:

Set the [MASTER VOLUME] to the maximum level.
Connect a level meter to the L/R of [PHONES] terminal.
Load should be 33 Ω. (30 Ω is acceptable as well: -0.6 dB)
L side: -80.0 dBu or less
R side: -80.0 dBu or less

Set the [MASTER VOLUME] to the maximum level.
Connect a level meter to the MAIN L/L+R, R of [LINE OUT] terminal.
(Use two monaural jacks simultaneously)
Load should be 10 k Ω.
L side: -75.0 dBu or less
R side: -75.0 dBu or less

Set the [MASTER VOLUME] to the maximum level.
Connect a level meter to the [WOOFER R] terminal.
(L side: between 6P-3P, R side: between 5P-3P, GND: 3P)
Load should be 470 Ω.
L side: -80.0 dBu or less
R side: -80.0 dBu or less

Set the [MASTER VOLUME] to the maximum level.
Connect a level meter to the [LINE OUT SUB1] terminal.
Load should be 10 k Ω.
SUB1 side: -80.0 dBu or less

Set the [MASTER VOLUME] to the maximum level.
Connect a level meter to the [LINE OUT SUB2] terminal.
Load should be 10 k Ω.
SUB2 side: -80.0 dBu or less

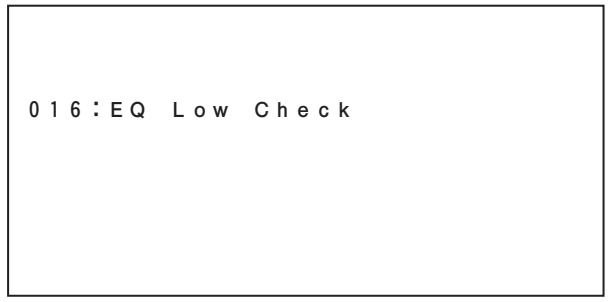
Test 16

Function: EQ (Low) frequency check

Description:

The sine wave of about 65.5 Hz (C1) is output from the [LINE OUT] jacks (MAIN L/L+R, MAIN R, SUB1, SUB2).

Displayed Message:



Selected screen



When a sound is being produced.

Supplement:

Sound is stopped when the test item is quit.

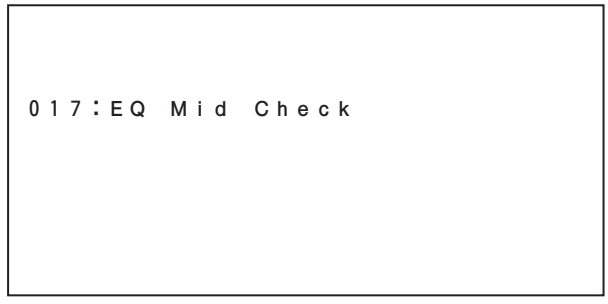
Test 17

Function: EQ (Mid) frequency check

Description:

The sine wave of about 524 Hz (C4) is output from the [LINE OUT] jacks (MAIN L/L+R, MAIN R, SUB1, SUB2).

Displayed Message:



Selected screen



When a sound is being produced.

Supplement:
Sound is stopped when the test item is quit.

Test 18

Function: EQ (High) frequency check

Description:
The sine wave of about 4,195 Hz (C7) is output from the [LINE OUT] jacks (MAIN L/L+R, MAIN R, SUB1, SUB2).

Displayed Message:



Selected screen



When a sound is being produced.

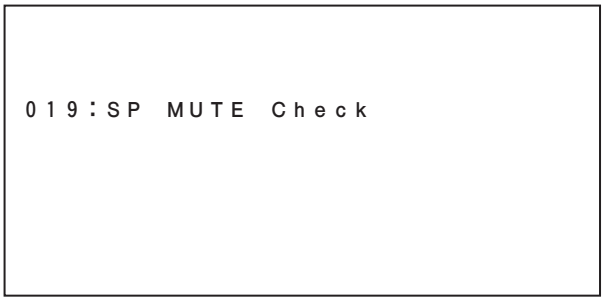
Supplement:
Sound is stopped when the test item is quit.

Test 19

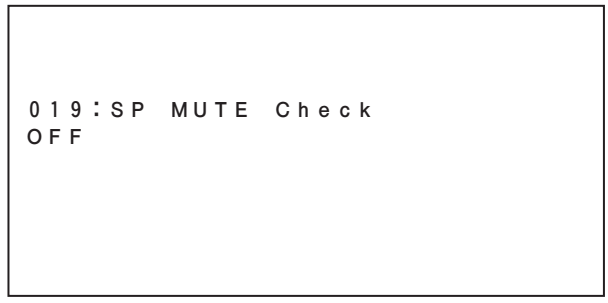
Function: SP MUTE check

Description:
When the test is executed, the sine wave of about 1,049 Hz (C5) is output from the [LINE OUT] jacks (MAIN L/L+R, MAIN R, SUB1, SUB2).
Confirm that the **"ON"** and **"OFF"** of SP MUTE can be toggled by pressing the TAB [◁] or the TAB [▷] button.

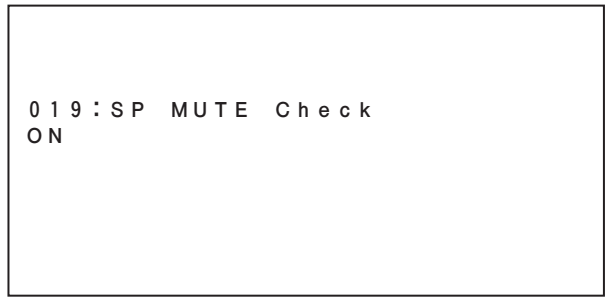
Displayed Message:



Selected screen



During MUTE OFF



During MUTE ON

Supplement:
SP MUTE (sound) shall not be controlled with connection/disconnection of headphones during this test.
Sound is stopped when the test item is quit.

Test 20

Function: MUTE check

Description:
When the test is executed, the sine wave of about 1,049 Hz (C5) is output from the [LINE OUT] jacks (MAIN L/L+R, MAIN R, SUB1, SUB2).
Confirm that the **"ON"** and **"OFF"** of MUTE can be toggled by pressing the TAB [◁] or the TAB [▷] button.

Displayed Message:



Selected screen

```
020:MUTE  Check
OFF
```

During MUTE OFF

```
020:MUTE  Check
ON
```

During MUTE ON

Supplement:

Sound is stopped when the test item is quit.

Test 21

Function: MIC check

Description:

Check output sound with MIC input. Check that there is no abnormal sounds or noise.

The [MASTER VOLUME] can be set to any level.
Set the [MIC GAIN] to the maximum level.
Connect a level meter (JIS-C curve) to the L/L+R of [AUX OUT/LOOP SEND] terminal. (Load should be 10 k Ω.)
Input signal of -45 dBu (1 kHz sine wave) from an oscillator to the [MIC INPUT] phone jack and measure at output terminals.

- AUX OUT/LOOP SEND L/L+R: +11.0±2 dBu

Check also if connection and disconnection of MIC is detected by inserting and removing MIC.

- Amount of GAIN volume decay:
  Change the [MIC GAIN] volume to the minimum level with the other setups remained as above.
  Measure output terminals.
  - AUX OUT/LOOP SEND L/L+R: -25.0±3 dBu

The same check is performed for the cannon plugs.
(Level measurement, Connection and disconnection check of MIC, Amount of GAIN volume decay)

When inserting the cannon plug, short the terminal to GND where no signal is input.

- To input a signal into the Hot side (pin No. 2), short the Cold side (pin No. 3) to GND and input a signal between Hot and GND.
- To input a signal into the Cold side (pin No. 3), short the Hot side (pin No. 2) to GND and input a signal between Cold and GND.

Displayed Message:

```
021:MIC  Check
```

Selected screen

```
021:MIC  Check
--

MIC  NOT  Inserted.
```

When MIC is unconnected

```
021:MIC  Check
--

MIC  Inserted.
```

When MIC is connected

Supplement:

[SIGNAL] LED do not light up.

AUX IN/LOOP RETURN input level:

Set the [MASTER VOLUME] to the maximum level.
Set the [AUX IN/LOOP RETURN TRIM VOLUME] to the maximum level.
Connect a level meter to the MAIN L/L+R, R of [LINE OUT] terminal. (Load should be 10 k Ω.)
Input signals -20 dBu (1 kHz sine wave) from an oscillator to the L/L+R, R of [AUX IN/ LOOP RETURN] terminal and measure at output terminals.

- LINE OUT MAIN L/L+R: +2.0 ±2 dBu
- LINE OUT MAIN R: +2.0 ±2 dBu

- Amount of volume decay:
  Change the [AUX IN/LOOP RETURN TRIM VOLUME] to the minimum level with the other setups remained as above.
  Measure output terminals.
  - LINE OUT MAIN L/L+R: -75.0 dBu or less
  - LINE OUT MAIN R: -75.0 dBu or less

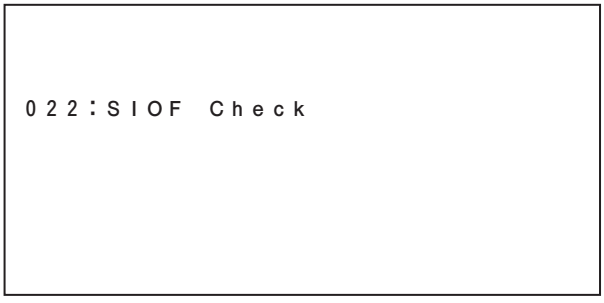
Test 22

Function: SIOF check

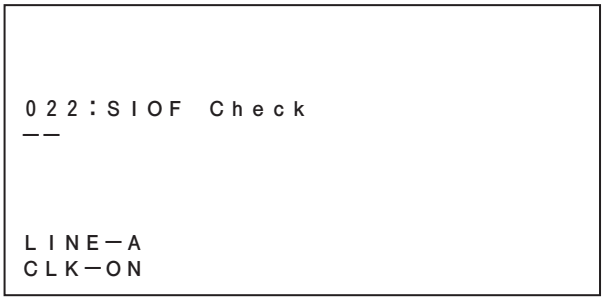
Description:

The two separate SIOF signal lines (LINE-A, LINE-B) are driven individually to check by sound generation if the connection is correct. At the same time the test of the of the AUDIO clock control port connection is executed.
After starting the test, if "LINE-A" is OK, a sine wave of approx. 441 Hz (A3) is generated in one-second intervals as follows: "Sound (clock ON) ↔ Muted (clock OFF)". (PAN=L)
When switching to "LINE-B" by pressing the TAB [>] button, a sine wave of approx. 1,049 Hz (C5) is generated in one-second intervals as follows: "Muted (clock OFF) ↔ Sound (clock ON)". (PAN=R)
The "LINE-A" and "LINE-B" can be switchled by pressing the TAB [<] or the TAB [>] button.

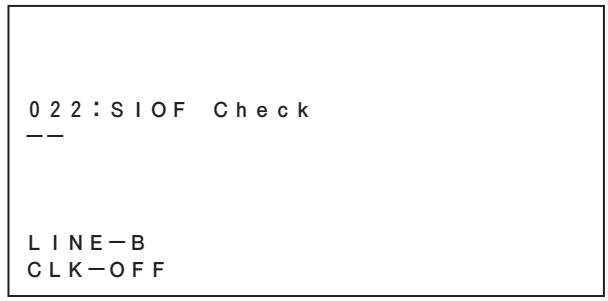
Displayed Message:



Selected screen



When a sound is being produced on LINE-A
When the clock is ON



When a sound is being produced on LINE-B
When the clock is OFF

Supplement:

In case of NG the sound/interval specified above is not generated.
Sound is stopped when the test item is quit.

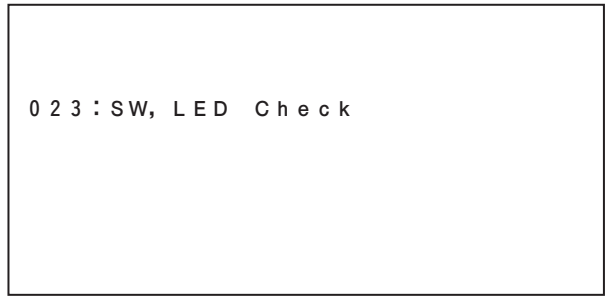
Test 23

Function: Switch, LED Check

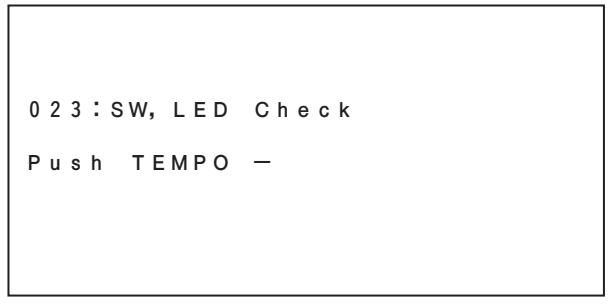
Description:

When a panel switch is being pressed, a sound is kept produced at a pitch corresponding to the switch (page 99).
When the switch is released, the sound is stopped.
If there is an LED for the switch, the LED will light up.
The LED will be turned off when the next switch is pressed correctly.
In case of two-colored LED, both the two colors will light.
Operate the [DATA ENTRY] dial following the indications on the LCD to check Dial Up and Dial Down. (The number should increase when turned clockwise and decrease when turned counterclockwise.)

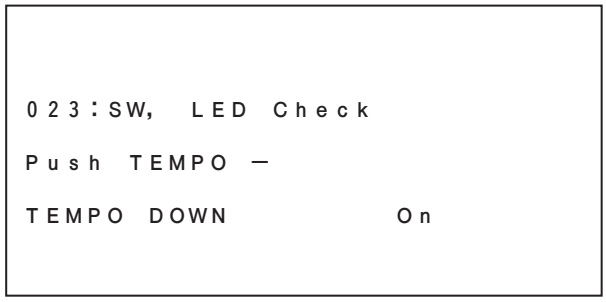
Displayed Message:



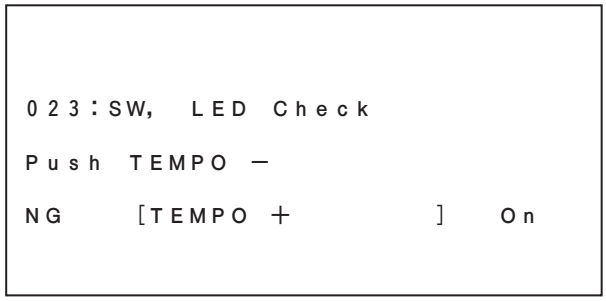
Selected screen



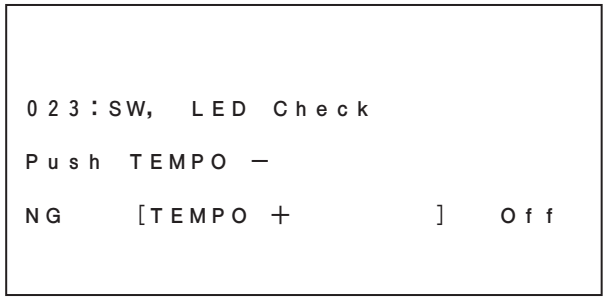
Indicates a switch name.



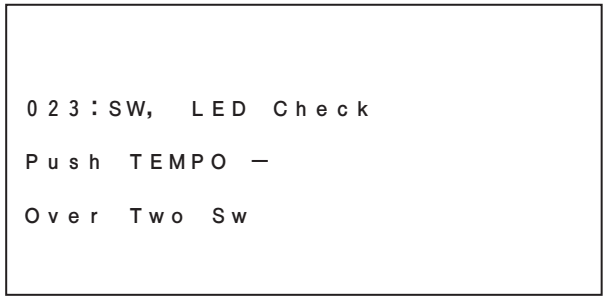
The specified switch is pressed.



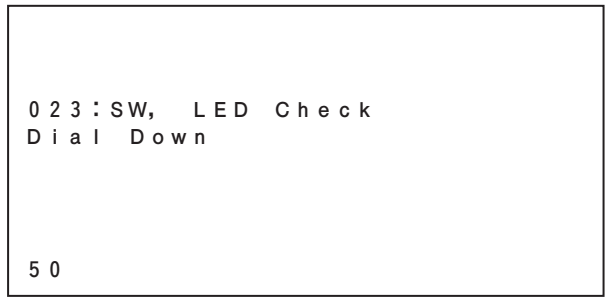
A wrong switch is pressed.
(Detection of On)



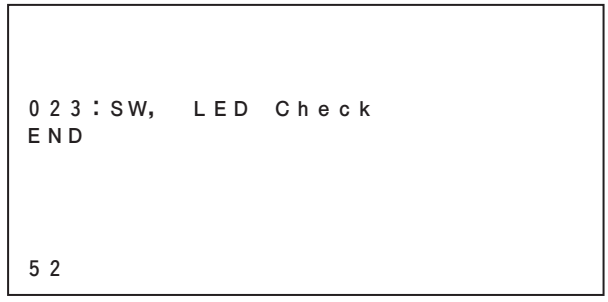
A wrong switch is pressed.
(Detection of Off)



Plural switches are pressed.



[DATA ENTRY] dial test



Test completed

Supplement:

If an unspecified switch is pressed, a sound corresponding to the switch will be played.

Press the [START/STOP] switch to go back to the selection screen when the test is completed.

Press the [DEMO] switch to abort the test halfway and return to the item selection display. (The switch is effective only after the checking of the switch is completed)

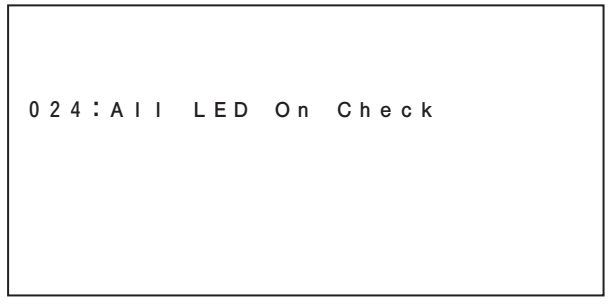
Test 24

Function: All Panel LEDs On check

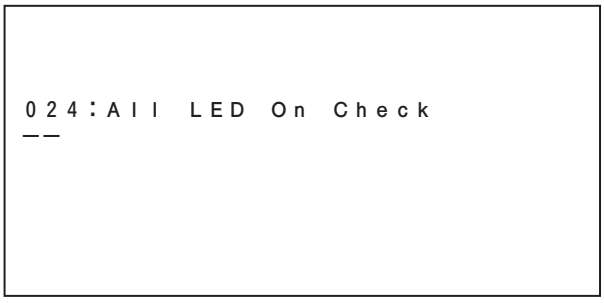
Description:

Turns on all the panel LEDs. (Two-colored LEDs will light in orange.)

Displayed Message:



All LED on check



During checking

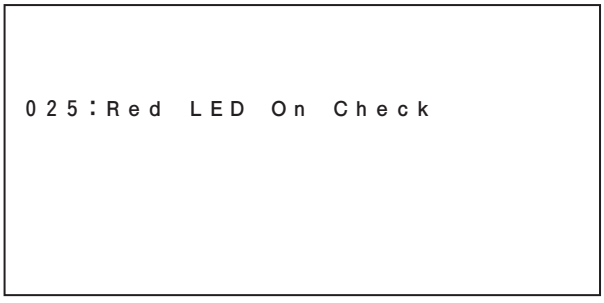
Supplement:
There are two lighting areas and the areas will be switched as the TAB [◁]/[▷] key is pressed.
The LEDs will go off after exiting the test item.

Test 25

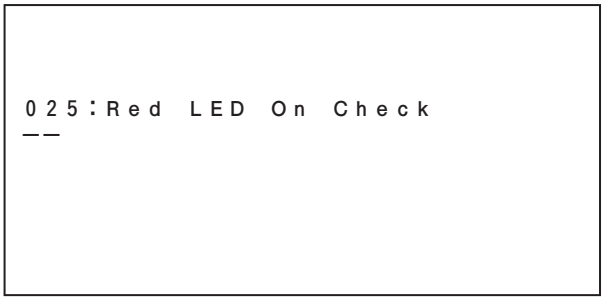
Function: Red LEDs On check

Description:
Turns on all the red panel LEDs. (Two-colored LEDs will light in red.)

Displayed Message:



Selected screen



During checking

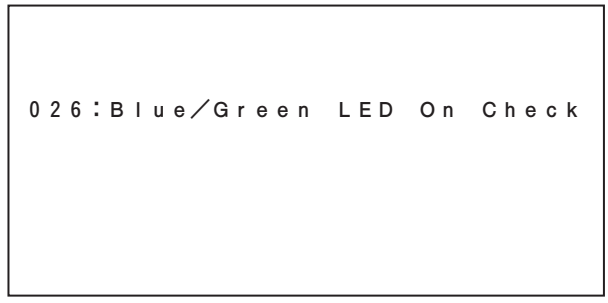
Supplement:
There are two lighting areas and the areas will be switched as the TAB [◁]/[▷] key is pressed.
The LEDs will go off after exiting the test item.

Test 26

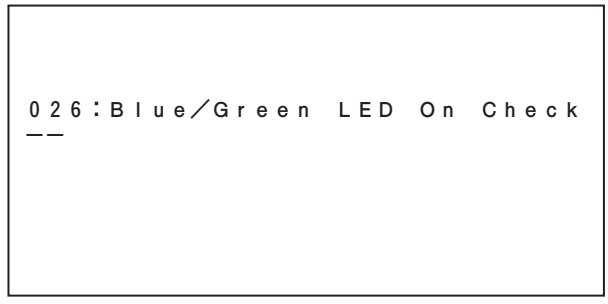
Function: Blue and Green LEDs On check

Description:
Turns on all the blue and green panel LEDs. (Two-colored LEDs will light in green.)

Displayed Message:



Selected screen



During checking

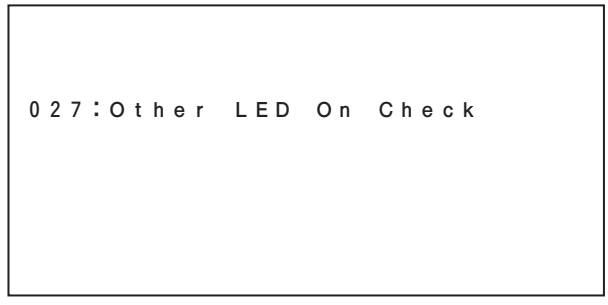
Supplement:
There are two lighting areas and the areas will be switched as the TAB [◁]/[▷] key is pressed.
The LEDs will go off after exiting the test item.

Test 27

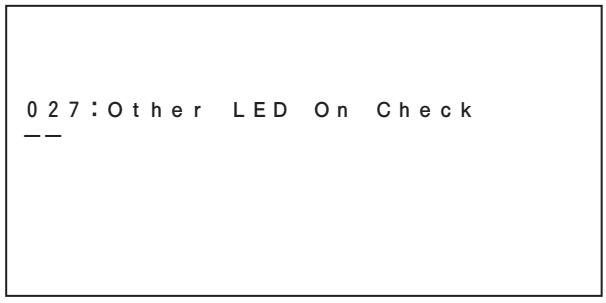
Function: Other colors LEDs On check

Description:
Turns on all the panel LEDs (orange and white) other than the red, blue and green ones.

Displayed Message:



Selected screen



During checking

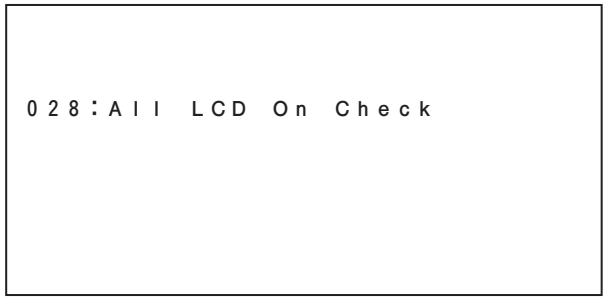
Supplement:
The LEDs will go off after exiting the test item.

Test 28

Function: Whole LCD ON check

Description:
Lights up all the dots on the LCD.

Displayed Message:



Selected screen



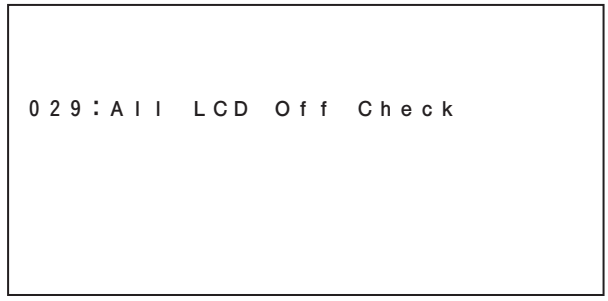
During checking

Test 29

Function: Whole LCD OFF check

Description:
Turns off all the dots on the LCD. (The whole screen will be white)

Displayed Message:



Selected screen



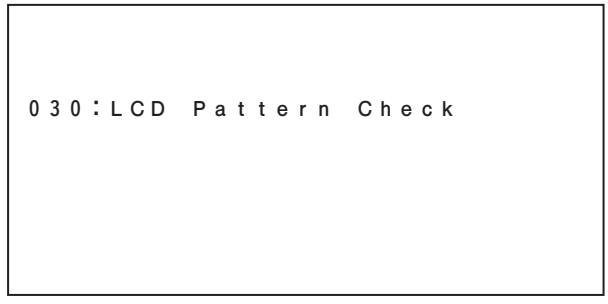
During checking

Test 30

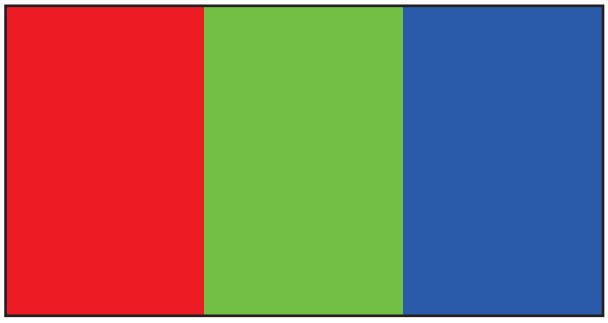
Function: LCD pattern check

Description:
Displays color patterns for checking LCD picture quality. Switch the patterns RGB → rainbow → flicker noise check with the TAB [◁]/[▷] keys.

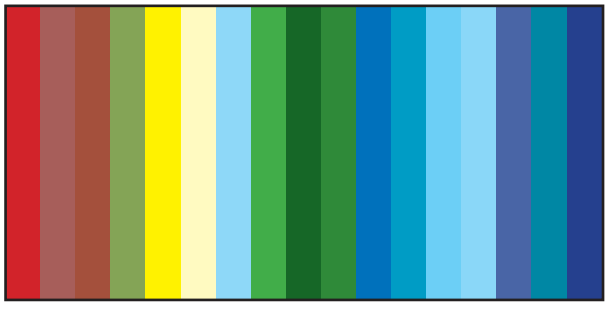
Displayed Message:



Selected screen



RGB pattern



Rainbow pattern



Flicker noise pattern

Test 31

Function: Pitch Bend Wheel check

Description:

Checks the pitch bend wheel. Center position of the wheel is detected after detecting MIN and MAX.

① "Pitch Bend Down":
Turn the wheel all the way toward you from the center position. (The sine wave C3 note sound will be produced when the wheel is at the minimum value, 0.)

② "Pitch Bend Up":
Turn the wheel all the way away from you. (The sine wave G3 note sound will be produced when the wheel is at the maximum value, 127.)

③ "Pitch Bend Center":
Release the wheel to set it back to the center position. (The sine wave C4 note sound will be produced when the wheel is at the center with the value of 64.)

Displayed Message:

```
031:Pitch Bend Wheel Check
```

Selected screen

```
031:Pitch Bend Wheel Check
Pitch Bend Center NG

62
```

When the checking is started

In case of NG (When the center value is not detected)

```
031:Pitch Bend Wheel Check
Pitch Bend Down

 64
```

When the checking is started

```
031:Pitch Bend Wheel Check
Pitch Bend Up

  0
```

Detection of the minimum value

```
031:Pitch Bend Wheel Check
Pitch Bend Center


127
```

Detection of the maximum value

```
031:Pitch Bend Wheel Check
OK


 64
```

In case of OK (When the center value is detected)

Test 32

Function: Modulation wheel check

Description:

Checks the modulation wheel. MAX and MIN are detected.

① "Modulation Up":
Turn the wheel all the way away from you. (The sine wave C3 note sound will be produced when the wheel is at the maximum value, 127.)

② "Modulation Down":
Turn the wheel all the way toward you. (The sine wave C4 note sound will be produced when the wheel is at the minimum value, 0.)

Displayed Message:

```
032:Modulation Wheel Check
```

Selected screen

```
032:Modulation Wheel Check
Modulation Up


xxx
```

When the checking is started
(xxx: Indicates current value)

```
032:Modulation Wheel Check
Modulation Down


127
```

Detection of the maximum value

```
032:Modulation Wheel Check
OK


  0
```

Detection of the minimum value (In case of OK)

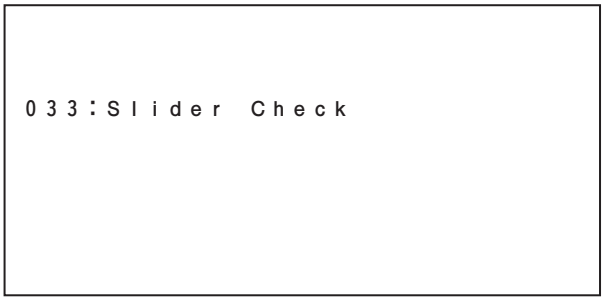
Test 33

Function: Slider check

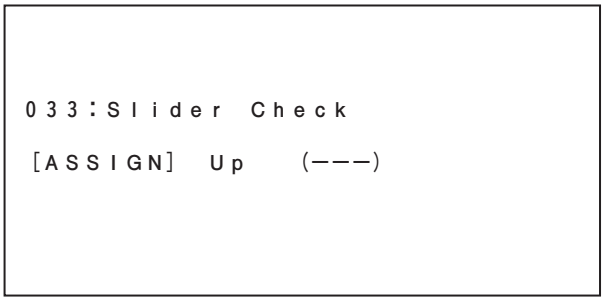
Description:

Slide the 9 sliders one by one in the order of Max (255) to Min (0) and check that the operation is detected.
When checking a slider, current value will be shown.
Checking is executed in the order of [ASSIGN] → [S1] → [S2] → ··· → [S8], and the result of each slider should be OK to proceed to the next checking.

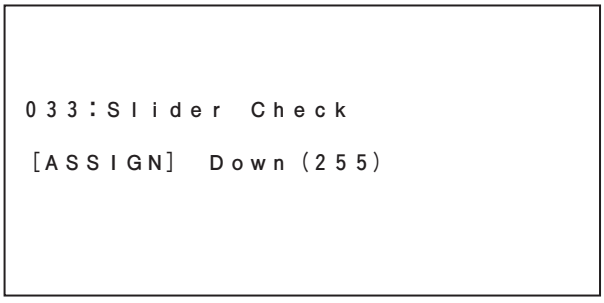
Displayed Message:



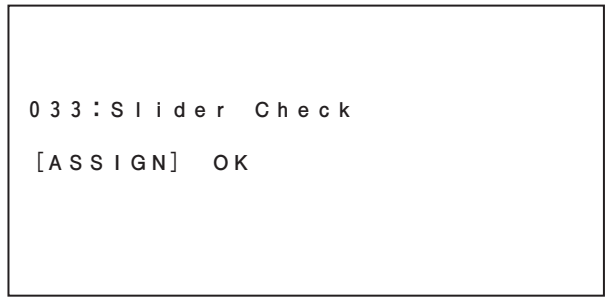
Selected screen



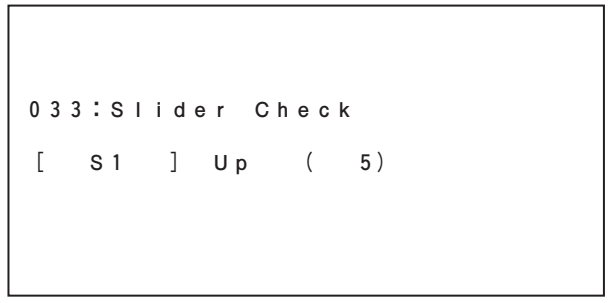
When the checking is started.
(Starts with the [ASSIGN]. Indicates current value in parentheses ( ).)



During checking
(After the maximum value is detected, the indication will change to **"Down"**.)

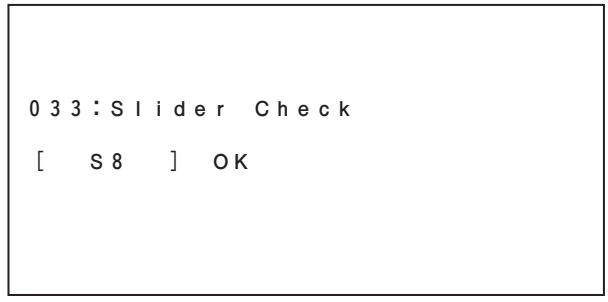


During checking
(After the minimum value is detected, the indication will change to **"OK"**.)

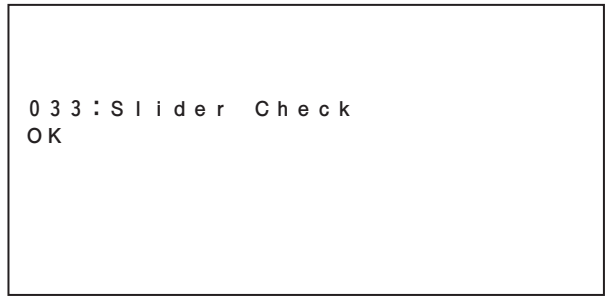


The indication changes to the next slider and the checking will be executed.





When the checking proceeds to the slider 8 and the result is **"OK"**,



the indication will change to **"OK"**.

Supplement:

It is not until the device is moved after the checking is started when a value is loaded.
A current value will be indicated for a device until the result is judged as OK.
When the result of all the devices are OK, only **"OK"** will be shown on the screen.

Test 34

Function: Pedal 1 check

Description:

Detects Max/Min of the pedal 1.

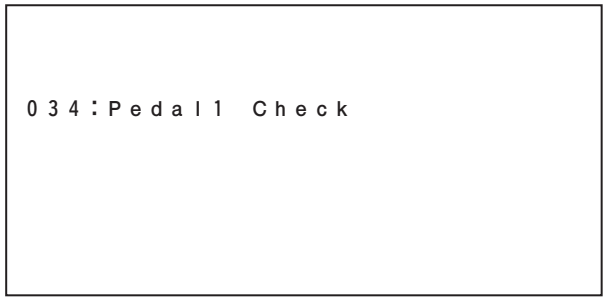
Execute the test after connecting a foot pedal (FC7) to the [ASSIGNABLE FOOT PEDAL 1] terminal.

① "Pedal 1 Down":
Depress the pedal.
(The sine wave C3 note sound will be produced.)

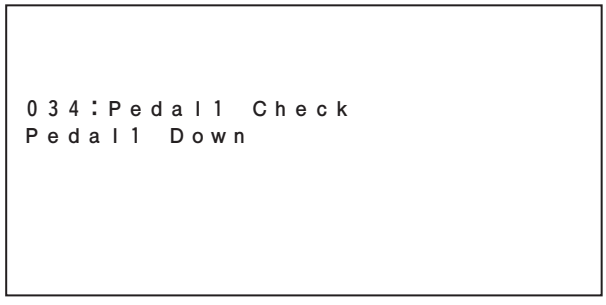
② "Pedal 1 Up":
Release the pedal.
(The sine wave G3 note sound will be produced.)

③ "Pedal 1 Out":
Disconnect the pedal from the terminal.
(The sine wave C4 note sound will be produced.)

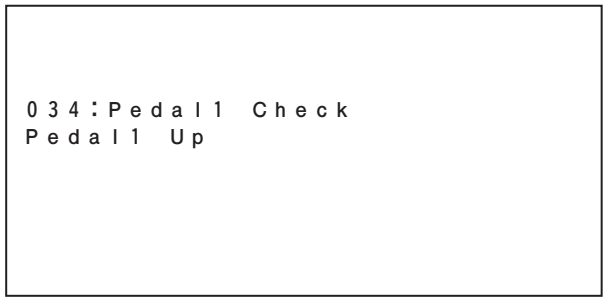
Displayed Message:



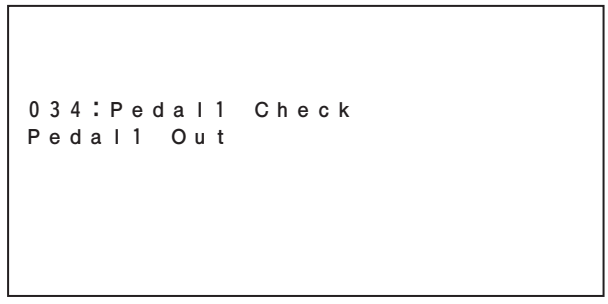
Selected screen



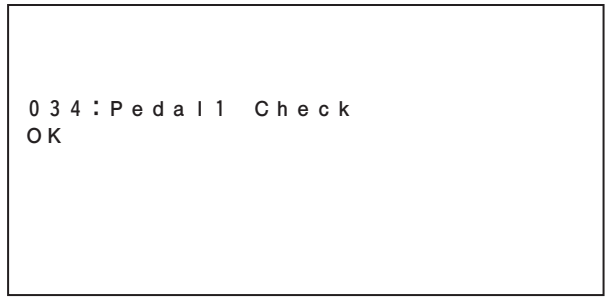
When the checking is started



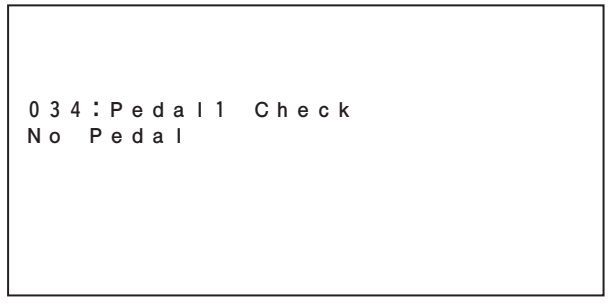
Detection of Min



Detection of Max



In case of OK (Disconnection detection)



When unconnected (No foot pedal is connected)

Supplement:

Use an FC7 pedal for the checking.

Test 35

Function: Pedal 2 check

Description:

Detects Max/Min of the pedal 2.

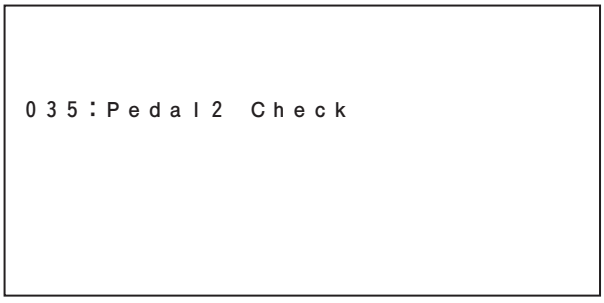
Execute the test after connecting a foot pedal (FC7) to the [ASSIGNABLE FOOT PEDAL 2] terminal.

① "Pedal 2 Down":
Depress the pedal.
(The sine wave C3 note sound will be produced.)

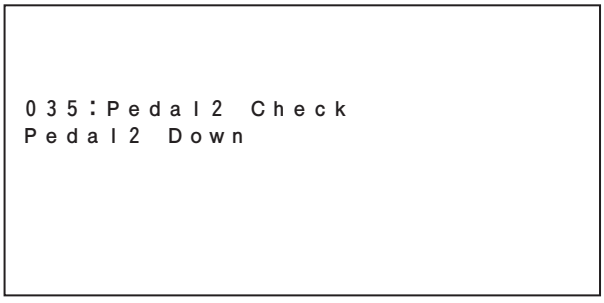
② "Pedal 2 Up":
Release the pedal.
(The sine wave G3 note sound will be produced.)

③ "Pedal 2 Out":
Disconnect the pedal from the terminal.
(The sine wave C4 note sound will be produced.)

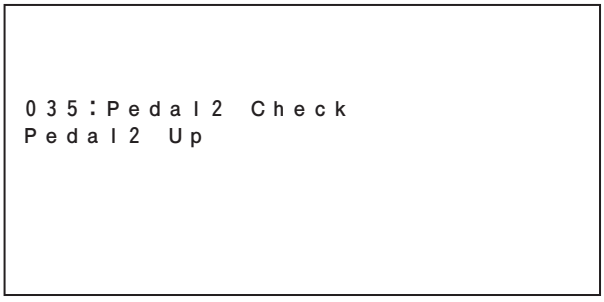
Displayed Message:



Selected screen



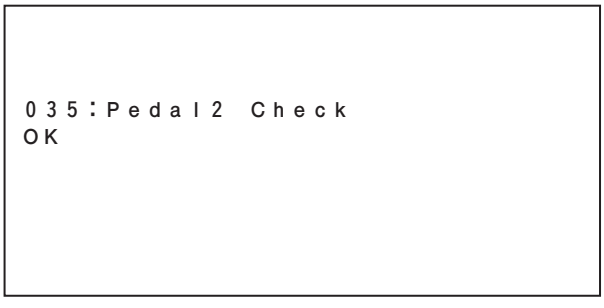
When the checking is started



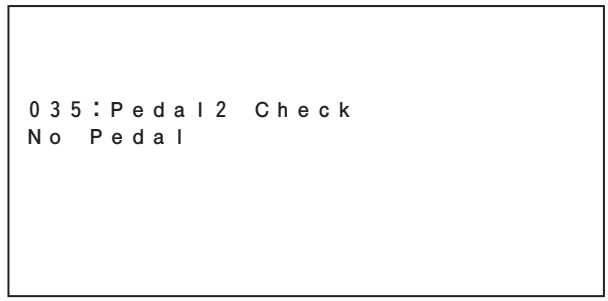
Detection of Min



Detection of Max



In case of OK (Disconnection detection)



When unconnected (No foot pedal is connected)

Supplement:

Use an FC7 pedal for the checking.

Test 36

Function: Pedal 3 check

Description:

Detects Max/Min of the pedal 3.

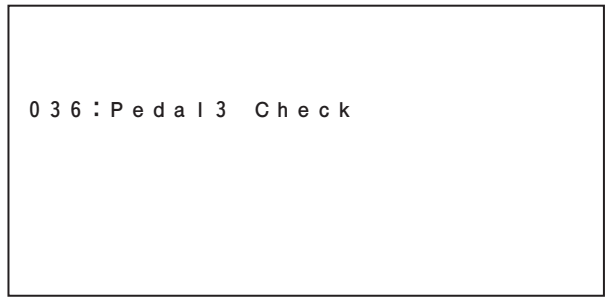
Execute the test after connecting a foot pedal (FC7) to the [ASSIGNABLE FOOT PEDAL 3] terminal.

① "Pedal 3 Down":
Depress the pedal.
(The sine wave C3 note sound will be produced.)

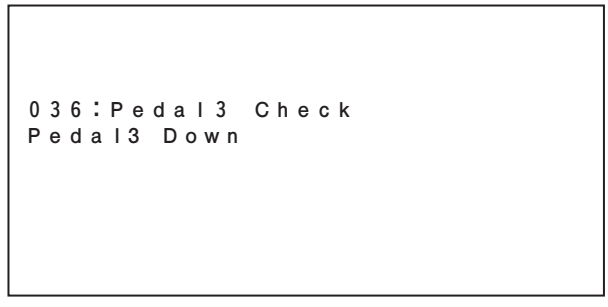
② "Pedal 3 Up":
Release the pedal.
(The sine wave G3 note sound will be produced.)

③ "Pedal 3 Out":
Disconnect the pedal from the terminal.
(The sine wave C4 note sound will be produced.)

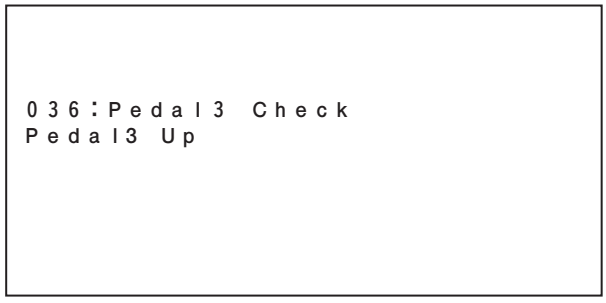
Displayed Message:



Selected screen



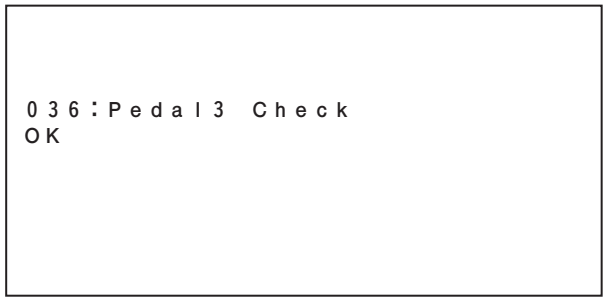
When the checking is started



Detection of Min



Detection of Max



In case of OK (Disconnection detection)



When unconnected (No foot pedal is connected)

Supplement:

Use an FC7 pedal for the checking.

Test 37

Function: MIDI check

Description:

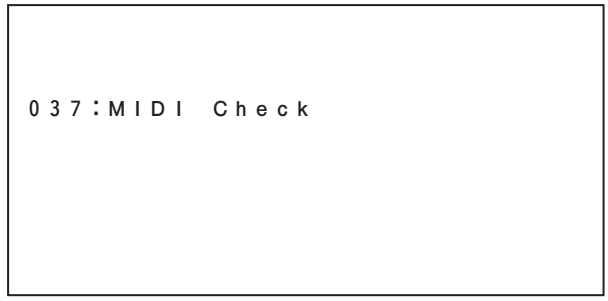
Checks transmission/reception of signals with the [MIDI IN] and [MIDI OUT] terminals connected with a MIDI cable in a loop. (Start checking with the MIDI terminals connected with a MIDI cable in a loop.)

Connect [MIDI A OUT] to [MIDI A IN] and [MIDI B OUT] to [MIDI B IN] with MIDI cables. (The result will be NG if connected alternately.)

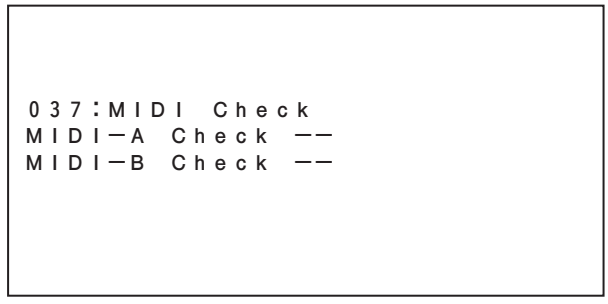
The test result of MIDI-A is OK and the sine wave C3 note sound will be produced.

The test result of MIDI-B is OK and the sine wave C4 note sound will be produced.

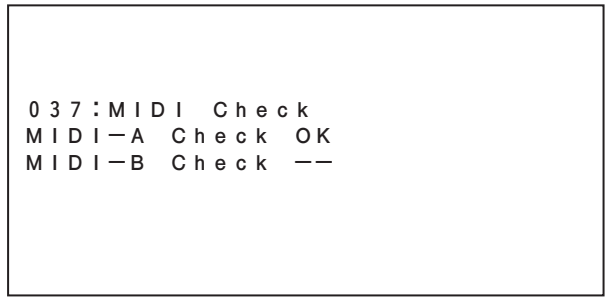
Displayed Message:



Selected screen



When the checking is started



When the MIDI-A is OK and MIDI-B is unchecked.

```
037:MIDI Check
MIDI-A Check NG
MIDI-B Check OK
```

When the MIDI-A is NG and MIDI-B is OK.

```
037:MIDI Check
OK
```

When both the MIDI-A and B are OK.

```
037:MIDI Check
MIDI-A Check NG
MIDI-B Check NG
```

When both the MIDI-A and B are NG.

Supplement:

In case of no input one second after the output, the result is judged as NG.

Test 38

Function: Loop Send/Return check

Description:

Loop Send/Return function check using an audio cable.

The sine wave A3 note signal will be outputted from [LINE OUT (MAIN)] when test is started.

The sound output will switched from [LINE OUT (MAIN)] to [AUX OUT/LOOP SEND] terminals when an audio cable is inserted to [AUX OUT/LOOP SEND L/L+R] terminal.

If connect [AUX OUT/LOOP SEND] to [AUX IN/LOOP RETURN] terminals in above setting, A3 note signal will output from [LINE OUT (MAIN)].

Level check:

Set the [MASTER VOLUME] to the maximum level.

Connect a level meter (JIS-C curve) to [LINE OUT MAIN L/L+R] terminal.

Load should be 10 k Ω.

① When the test is started.
LINE OUT MAIN L/L+R: +9.5±2 dBu

② When an audio cable is inserted to [AUX OUT/LOOP SEND L/L+R] terminal.
LINE OUT MAIN L/L+R: -75.0 dBu or less

Displayed Message:

```
038:Loop Send/Return Check
```

Selected screen

```
038:Loop Send/Return Check


LOOP SEND NOT Inserted.
```

When the LOOP SEND jack is not connected.

```
038:LoopSend/ReturnCheck


LOOP SEND Inserted.
```

When connection to the LOOP SEND jack is detected.

Supplement:

No detection of connection is conducted at the [AUX OUT/LOOP SEND(R)] terminal.

Test 39

Function: Sub Out connection check

Description:

[LINE OUT SUB 1] and [LINE OUT SUB 2] function check using an audio cable.

The C3 note will be outputted when an audio cable is inserted to the [LINE OUT SUB] terminals, and C4 note will output when an audio cable is disconnected from the terminals.

Displayed Message:

```
039:Sub Out Check
```

Selected screen

```
039:Sub Out Check
No Sub1
No Sub2
```

An audio cable is not inserted to the terminals

```
039:Sub Out Check
Sub1 In
No Sub2
```

An audio cable is inserted to the SUB 1 terminal only.

```
039:Sub Out Check
Sub1 OK
Sub2 In
```

An audio cable is disconnected from SUB 1 terminal and inserted to the SUB 2 terminal.

```
039:Sub Out Check
OK
```

An audio cable is disconnected both terminal of SUB 1 and SUB 2.

Supplement:

Checking can be started with either the SUB 1 or 2.

Test 40

Function: Video Out check (NTSC RGB)

Description:

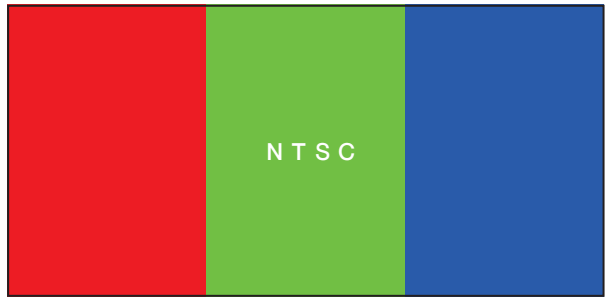
Conducts RGB (NTSC) test of the [VIDEO OUT] terminal. Connect a color CRT monitor that can display in NTSC and PAL systems to the [VIDEO OUT] terminal with a video cable (75Ω coaxial).

Check that RGB color bars (red, green and blue) are shown on the TV.

Displayed Message:

```
040:VIDEO OUT NTSC RGB
```

Selected screen



During checking

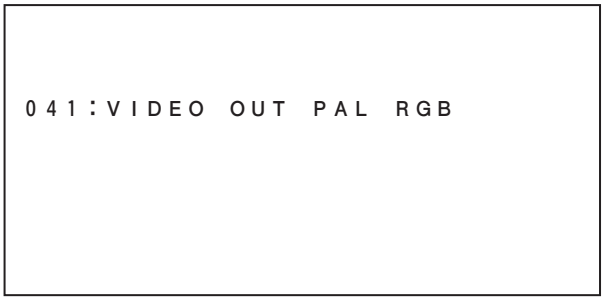
Test 41

Function: Video Out check (PAL RGB)

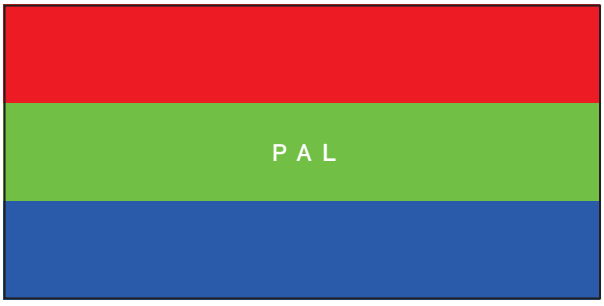
Description:

Conducts RGB (PAL) test of the [VIDEO OUT] terminal.
Connect a color CRT monitor that can display in NTSC and PAL systems to the [VIDEO OUT] terminal with a video cable (75Ω coaxial).
Check that RGB color bars (red, green and blue) are shown on the TV.

Displayed Message:



Selected screen



During checking

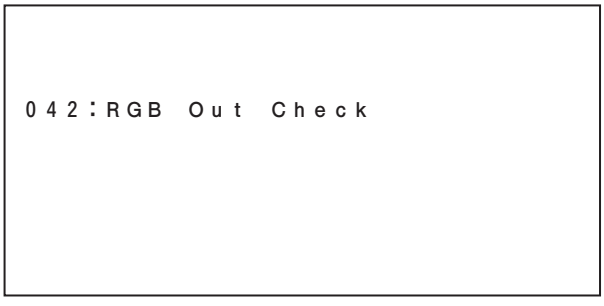
Test 42

Function: RGB Out check

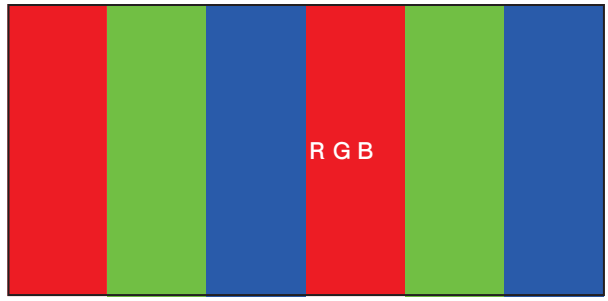
Description:

Conducts RGB test of the [RGB OUT] terminal.
Connect a color CRT monitor that can display in RGB to the [RGB OUT] terminal.
Check that RGB color bars (red, green and blue) are shown on the RGB monitor.

Displayed Message:



Selected screen



During checking

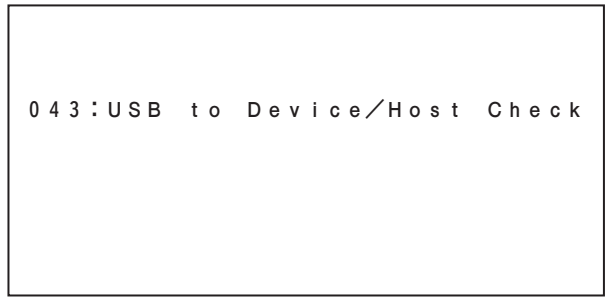
Test 43

Function: USB to Device/Host check

Description:

Conducts checking of the [USB TO DEVICE] terminal and [USB TO HOST] terminal simultaneously.
Start checking without connecting a USB cable in a loop.
The sine wave C4 note sound will be produced if the result of the two tests is OK.

Displayed Message:

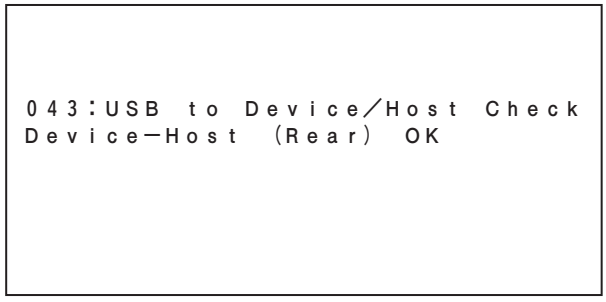


Selected screen



* When the screen appears, connect the [USB TO DEVICE] terminal on the rear side and [USB TO HOST] terminal with a USB cable.

Checking [USB TO DEVICE] and [USB TO HOST]



In case of OK ([USB TO DEVICE] (rear side) and [USB TO HOST]

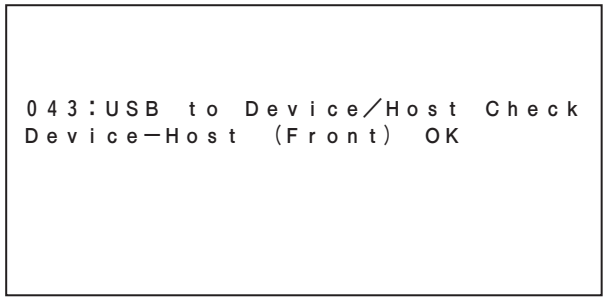


In case of NG ([USB TO DEVICE] (rear side) and [USB TO HOST]

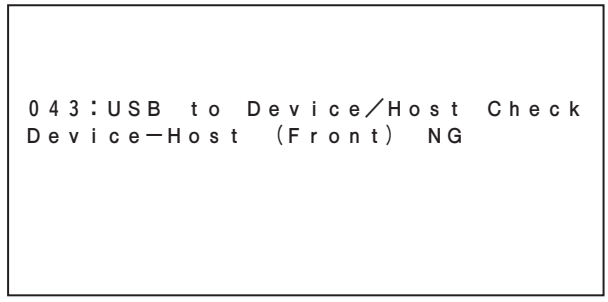


* When the screen appears, connect the [USB TO DEVICE] terminal on the front side and [USB TO HOST] terminal with a USB cable.

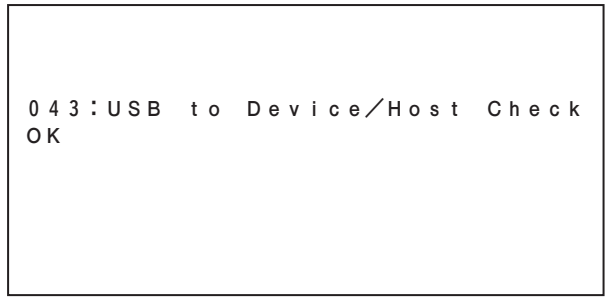
Checking [USB TO DEVICE] and [USB TO HOST]



In case of OK ([USB TO DEVICE] (front side) and [USB TO HOST]



In case of NG ([USB TO DEVICE] (front side) and [USB TO HOST]



In case of OK



In case of NG

Supplement:

It is impossible to determine is the [USB TO DEVICE] terminal or [USB TO HOST] terminal is defective in case of NG.

The **"USB Storage Check"** can be used to check the rear and front [TO DEVICE] terminals. Combine the test to determine which terminal is defective.

Be sure to use a USB Storage whose operation is already checked.

USB to Host .....A
USB to Device (Rear).....B
USB to Device.....C

USB to Device/Host Check			USB Storage Check		Result
A–B	A–C	Comment	B	C	
OK	OK	normal	OK	OK	normal
			NG	OK	B may be defective.
			OK	NG	C may be defective.
			NG	NG	B, C may be defective.
NG	OK	B defective			
OK	NG	C defective			
NG	NG	Any of A, B, C may be defective.	OK	OK	A may be defective.
			NG	OK	A, B may be defective.
			OK	NG	A, C may be defective.
			NG	NG	B, C may be defective.

Test 44

Function: USB Storage Device check

Description:

Connect a USB Storage device and check if it can be used. (Reads every 100 sectors from sector 0 and conducts sector read/write tests at ten points.)

* Please carry out this test twice, as the [USB TO DEVICE] terminals on the front and rear panels both have to be checked.

Connect a storage device to the [USB TO DEVICE] terminal on the front side or rear side.

Displayed Message:



Selected screen



When the checking is started



In case of OK



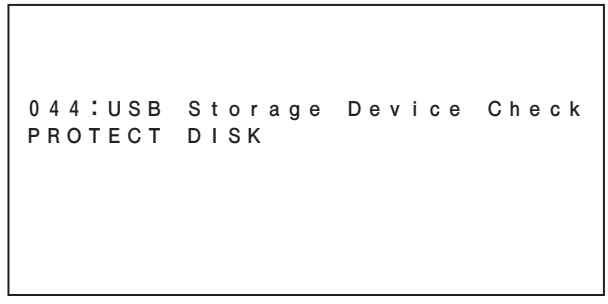
In case of NG (Read/Write failure)



No media



Media unformatted



Media protected

Test 45

Function: Internal USB-HDD check

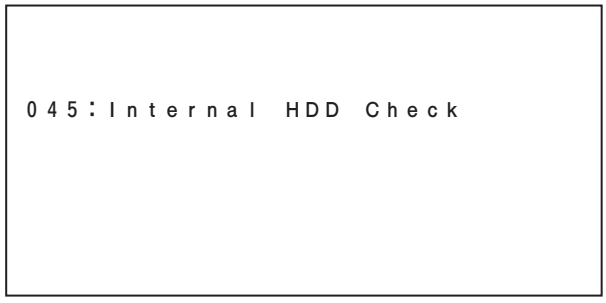
Description:

A read/write test of the internal USB-HDD is performed. (Starting from sector 0, a read/write test will be performed at 10 places in 100-sector units.)

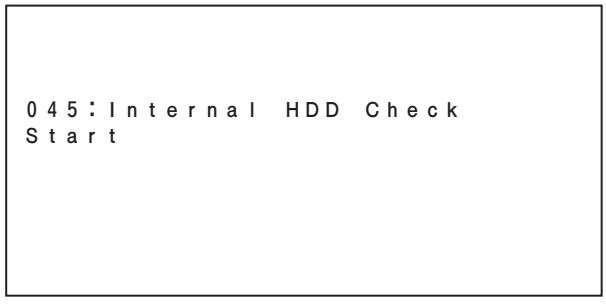
A HDD formatted using Tyros4 must be used.

Also make sure nothing is connected to the other [USB TO DEVICE] terminal before executing the test.

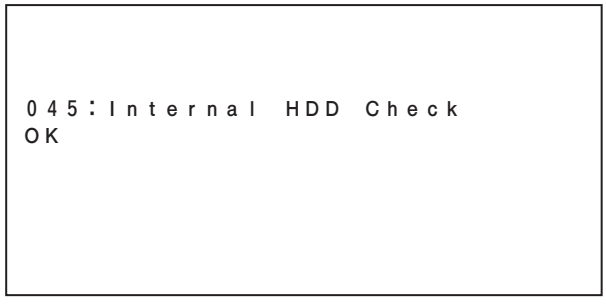
Displayed Message:



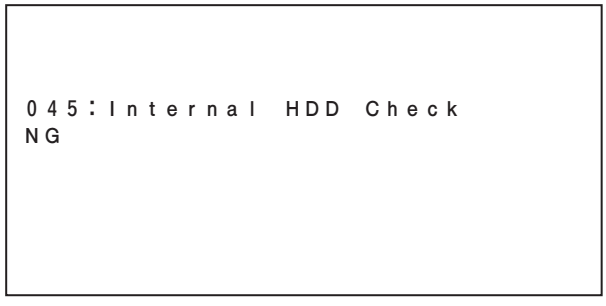
Selected screen



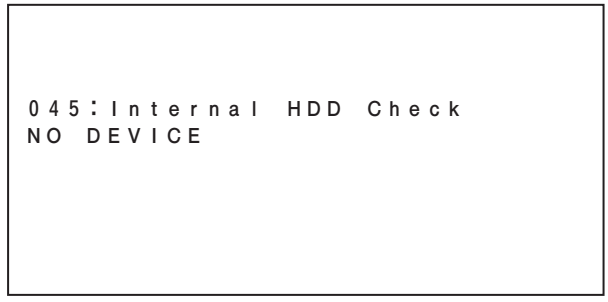
When the checking is started



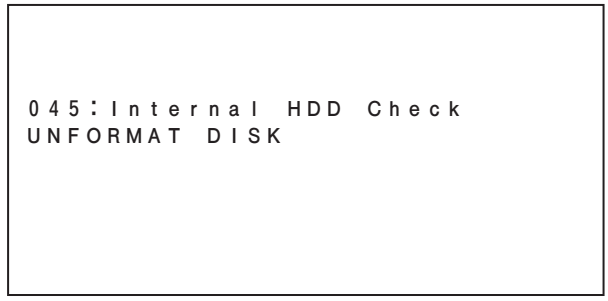
In case of OK



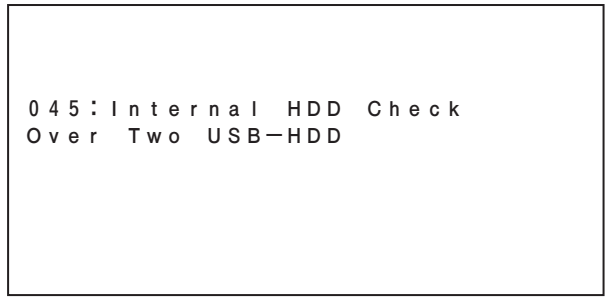
In case of NG (Read/Write error)



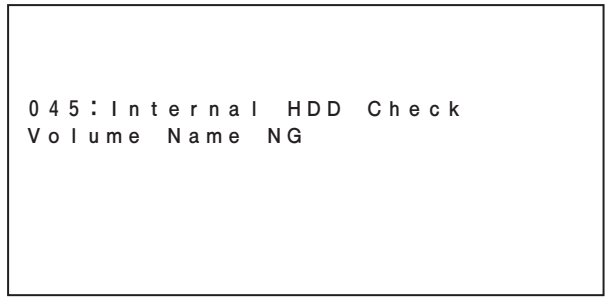
HDD is not detected



HDD unformatted



Plural HDDs are connected.



Volume name error
(Unformatted by Tyros4)

Test 46

Function: LAN check

Description:

Conducts signal communication checking with the [LAN] terminal of the Tyros4 and a router for checking connected with a LAN cable. (Starts checking with the instrument connected with the LAN cable.)

It will take about 20 seconds for the check.

Displayed Message:



Selected screen



In case of OK



In case of NG

Supplement:

Use a router, which has the following specifications, in initial configuration.

- Equipped with DHCP server function
- Default IP address is 192.168.xxx.xxx

Do not connect an equipment other than the instrument to be checked to the router.

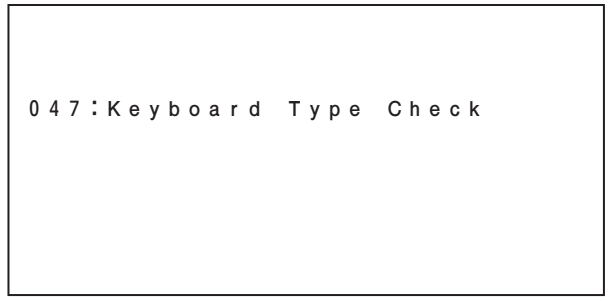
Test 47

Function: Keyboard Type check

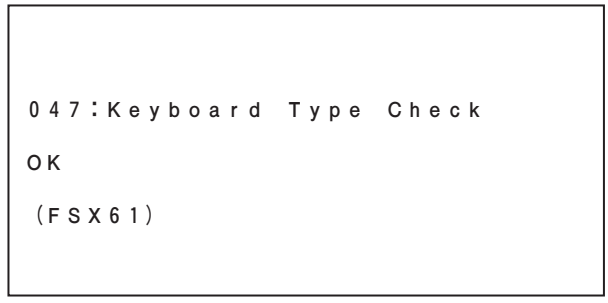
Description:

Judges connected keyboard type and indicated keyboard name.

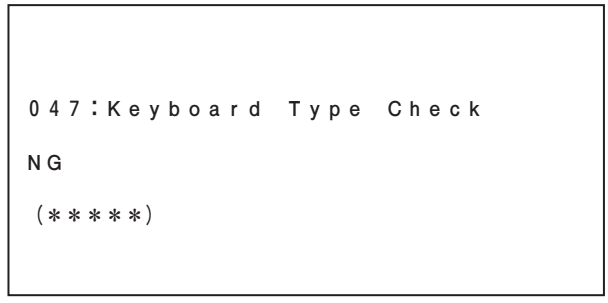
Displayed Message:



Selected screen



In case of OK



In case of NG

＊＊＊＊＊: Keyboard type name (Not FSX61)

Supplement:

The keyboard name will be indicated in case of NG as well.

Test 48

Function: Touch check

Description:

Press the C3 key and press that until after touch will be activated.

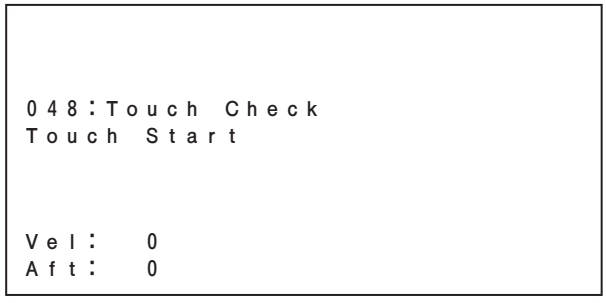
Indicates initial touch (velocity)/after touch value of 0 to 127 decimally on the LCD.

Result will be OK if MAX (sine wave C3 note sound is produced) → MIN_(sine wave C4 note sound is produced) are detected.

Displayed Message:

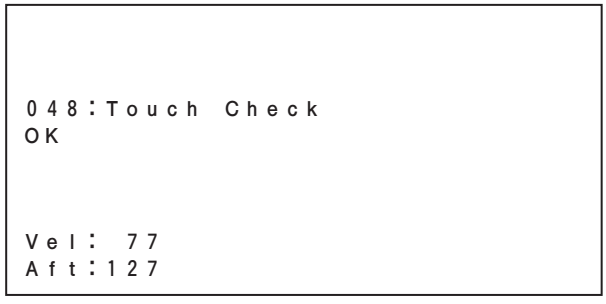


Selected screen

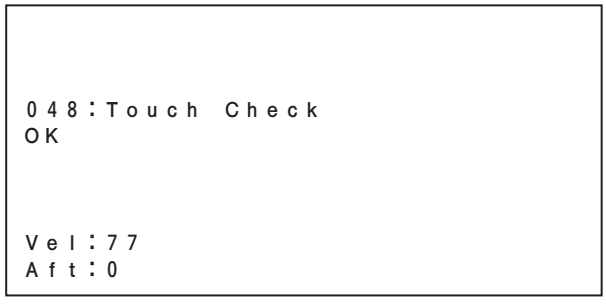


When the checking is started

(Upper: Velocity value Lower: After touch value)



When the maximum value of after touch is detected



In case of OK (When the minimum value of after touch is detected)

Test 49

Factory Inspection Only

Test 50

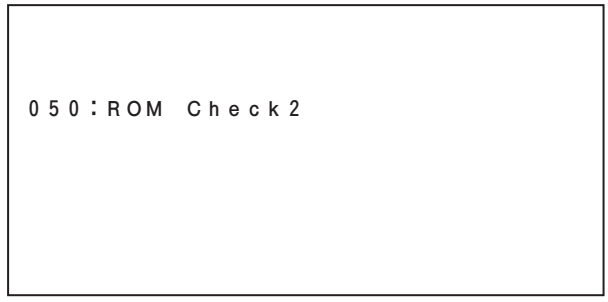
Function: Full check of ROM

Description:

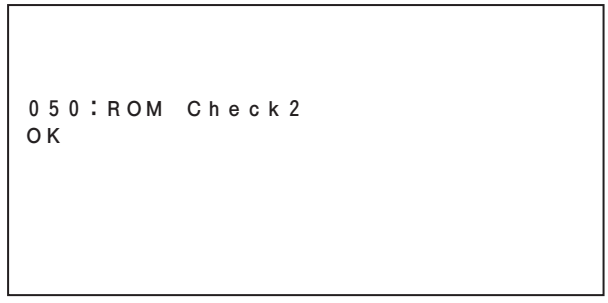
Conducts read test (checksum inspection) on Program area and Data area.

It will take about 15 seconds for the check.

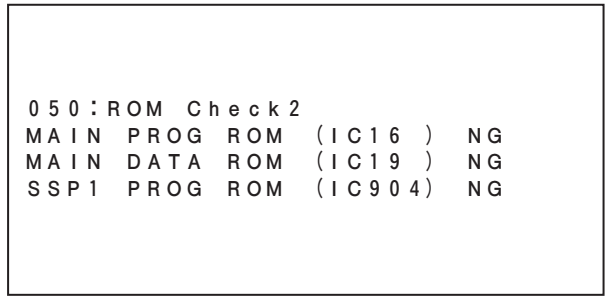
Displayed Message:



Selected screen



In case of OK



In case of NG (Example)

Supplement:

In case of NG, the location and the IC number of which NG is detected will be shown.

"No Dev." will be shown if SSP1 PROG is not detected.

Error Indications	Circuit Board	Location	Name in Circuit Diagram
MAIN PROG ROM NG	DM	IC16	FLASH ROM 256 M PROGRAM
MAIN PROG WR NG			
MAIN DATA ROM NG	DM	IC19	FLASH ROM 512 M DATA
SSP1 PROG ROM NG	DM	IC904	FLASH ROM 16 M SSP1-PROGRAM
SSP1 PROG ROM No Dev.			

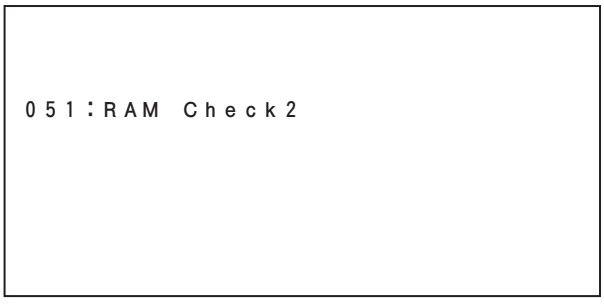
Test 51

Function: Full check of RAM

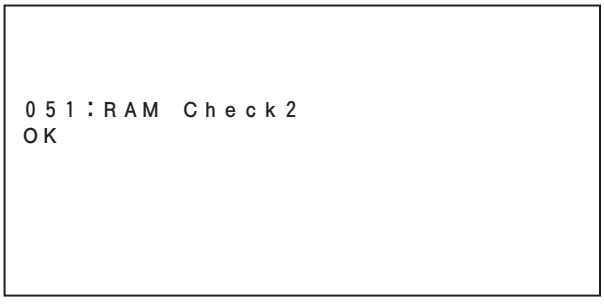
Description:

Executes Read/Write test (connection check) of RAM.

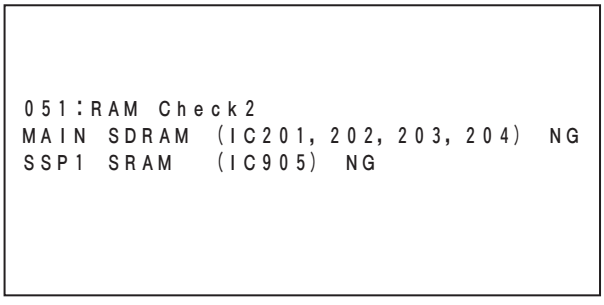
Displayed Message:



Selected screen



In case of OK



In case of NG

Supplement:

In case of NG, the location and the IC number of which NG is detected will be shown.

"No Dev." will be shown if SSP1 SRAM is not detected.

Error Indications	Circuit Board	Location	Name in Circuit Diagram
MAIN SDRAM NG	DM	IC201 –204	SDRAM 128 M SDRAM 128 M
SSP1 SRAM NG	DM	IC905	SRAM 4 M
SSP1 SRAM No Dev.			

Test 52

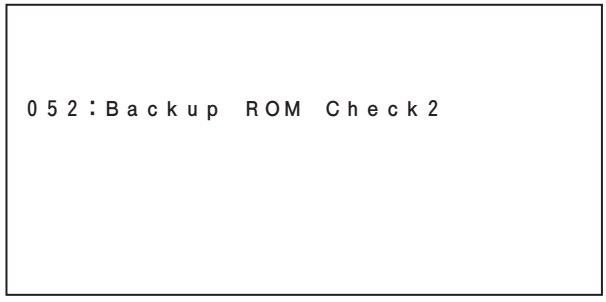
Function: Full check of backup ROM

Description:

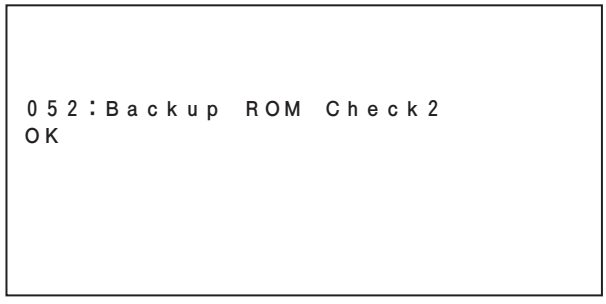
Executes Read/Write test of the entire blocks of Backup Flash ROM.

It will take about 6 minutes for the check.

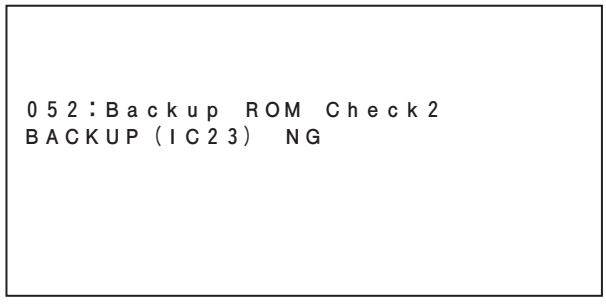
Displayed Message:



Selected screen



In case of OK



In case of NG

Supplement:

The check cannot be aborted until OK/NG result is indicated.

Original data will be written back after the test is executed.

Do not turn off the power during checking or the data will be lost.

Error Indications	Circuit Board	Location	Name in Circuit Diagram
BUCKUP NG	DM	IC23	FLASH ROM 64 M BACKUP

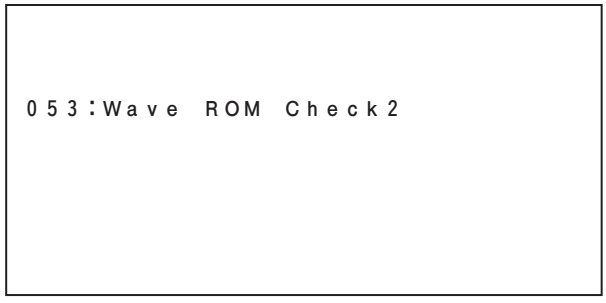
Test 53

Function: Full check of Wave ROM

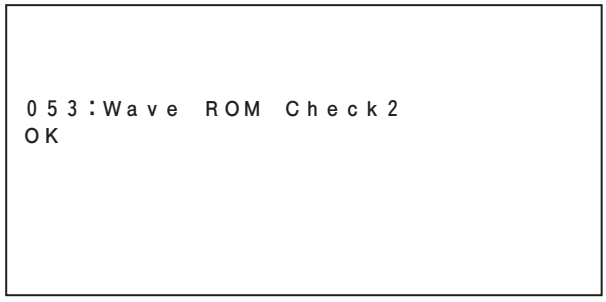
Description:

Executes Read test (full address checksum test) of Wave ROM. As the Wave ROM is shared by TG1 (Master) and TG2 (Slave), the check is performed from both sides.
It will take about 10 minutes for the check.

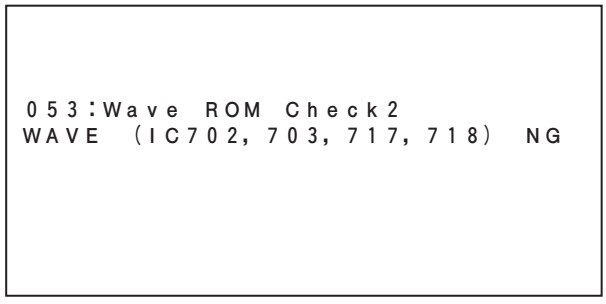
Displayed Message:



Selected screen



In case of OK



In case of NG

In case of NG, the location and the IC number of which NG is detected will be shown.

Error Indications	Circuit Board	Location	Name in Circuit Diagram
WAVE NG	DM	IC702	WAVE ROM H0 1G
		IC703	WAVE ROM H1 1G
		IC717	WAVE ROM L0 1G
		IC718	WAVE ROM L1 1G

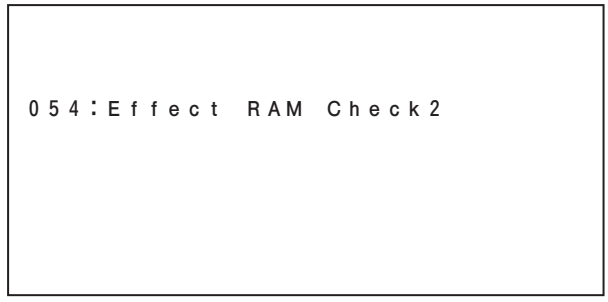
Test 54

Function: Full check of Effect RAM

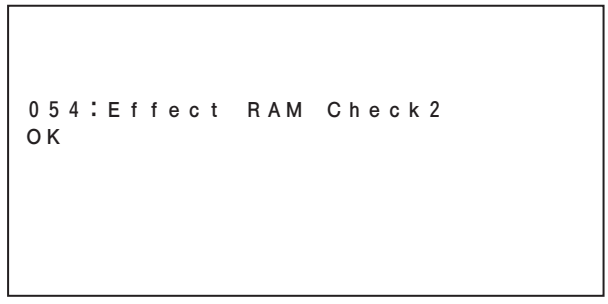
Description:

Full address checksum inspection of EffectRAM
It will take about 1 minute for the check.

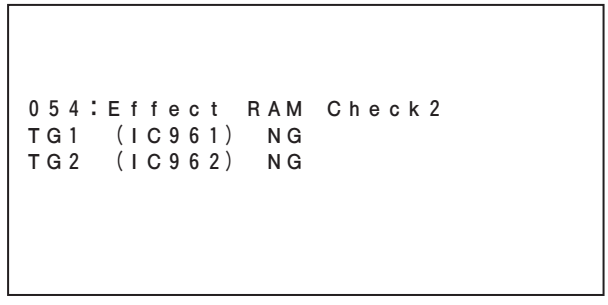
Displayed Message:



Selected screen



In case of OK



In case of NG

Supplement:

In case of NG, the location and the IC number of which NG is detected will be shown.
TG1 indicates Effect RAM of SWP51L Master (DM: IC701) and TG2 indicates Effect RAM of SWP51L Slave (DM: IC700).

Error Indications	Circuit Board	Location	Name in Circuit Diagram
TG1 NG	DM	IC961	SDRAM 64 M
TG2 NG	DM	IC962	SDRAM 64 M

Test 55 to 60

Factory Inspection only.

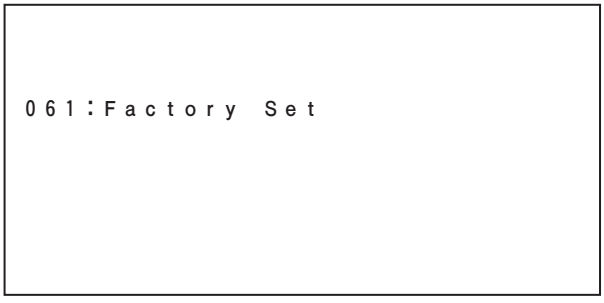
Test 61

Function: Factory Set

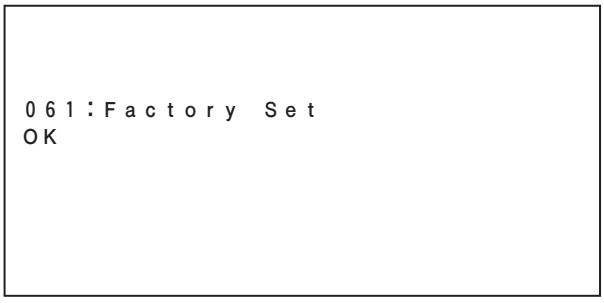
Description:

Restores the Tyros4 to the factory initial setup.
(Sets the initial data to the Flash ROM.)

Displayed Message:



Selected screen



During execution

Supplement:

In this stage, the flag for initialization is raised only and initialization will be executed when the power is turned on next time.

⚠ Caution

Don't turn off the power until the main screen is indicated after executing the **"Factory Set"**.

Test 62

Function: Exiting test mode

Description:

Quits the test mode and restarts. (Restarting should be conducted automatically. Check if the restarting is conducted.)

Displayed Message:



Selected screen

Supplement:

⚠ Caution

Don't turn off the power until the main screen is indicated after executing the **"Exiting test mode"**.

* When "**Test 61: Factory Set**" is executed, it takes about 1 minute and 30 seconds for the main screen to appear after the test mode ends.
* If the display is changed in the following order, the main screen will appear when the test mode is finished.
  Force Format Mode. → Initializing regist backup. → Tyros4 → Initializing system setup. → MAIN

INITIAL SETTING

Setting at the time of factory shipping.

- MASTER VOLUME: MIN
- MIC GAIN: MIN
- MODURATION WHEEL: MIN (toward you)
- AUX IN/LOOP RETURN TRIM VOLUME: MIN
- SLIDER VOLUME: MAX (top side)

• **Switch Test Sequence**

Turn	SW Name / Display	Note Number
1	TYPE SELECT	C2
2	MIC SETTING	C#2
3	SONG I	D2
4	SONG II	D#2
5	SP1	E2
6	SP2	F2
7	REC	F#2
8	STOP	G2
9	PLAY/PAUSE	G#2
10	REW	A2
11	FF	A#2
12	DEMO	B2
13	VOCAL HARMONY	C3
14	EFFECT	C#3
15	TALK	D3
16	SONG III	D#3
17	SONG IV	E3
18	SP3	F3
19	SP4	F#3
20	LOOP	G3
21	METRONOME	G#3
22	LYRICS/TEXT	A3
23	SCORE	A#3
24	POP & ROCK	B3
25	BALLAD	C4
26	DANCE	C#4
27	SWING & JAZZ	D4
28	R & B	D#4
29	COUNTRY	E4
30	LATIN	F4
31	BALLROOM	F#4
32	MOVIE & SHOW	G4
33	ENTERTAINER	G#4
34	WORLD	A4
35	FILE ACCESS	A#4
36	TRANSPOSE –	B4
37	TRANSPOSE +	C5
38	MIXING CONSOLE	C#5
39	FADE IN/OUT	D5
40	ACMP	D#5
41	OTS LINK	E5
42	AUTO FILL IN	F5
43	TAP TEMPO	F#5
44	TEMPO –	G5
45	TEMPO +	G#5
46	M.PAD SELECT	A5
47	M.PAD 1	A#5
48	M.PAD 2	B5
49	M.PAD 3	C6
50	M.PAD 4	C2
51	M.PAD STOP	C#2
52	CHANNEL ON/OFF	D2
53	INTRO I	D#2
54	INTRO II	E2
55	INTRO III	F2
56	MAIN A	F#2
57	MAIN B	G2
58	MAIN C	G#2
59	MAIN D	A2
60	BREAK	A#2
61	ENDING/rit. I	B2
62	ENDING/rit. II	C3
63	ENDING/rit. III	C#3
64	SYNC STOP	D3
65	SYNC START	D#3
66	START/STOP	E3
67	BALANCE	F3
68	UPPER OCTAVE –	F#3
69	UPPER OCTAVE +	G3
70	SA1	G#3
71	SA2	A3
72	A	A#3
73	B	B3
74	C	C4
75	D	C#4
76	E	D4
77	DIRECT ACCESS	D#4
78	TAB <	E4
79	TAB >	F4
80	F	F#4
81	G	G4
82	H	G#4
83	I	A4
84	J	A#4
85	EXIT	B4
86	1-U	C5
87	2-U	C#5
88	3-U	D5
89	4-U	D#5
90	5-U	E5
91	6-U	F5
92	7-U	F#5
93	8-U	G5
94	1-L	G#5
95	2-L	A5
96	3-L	A#5
97	4-L	B5
98	5-L	C6
99	6-L	C2
100	7-L	C#2
101	8-L	D2
102	ENTER	D#2
103	FUNCTION	E2
104	VOICE CREATOR	F2
105	DIGITAL RECORDING	F#2
106	REC	G2
107	STOP	G#2
108	PLAY/PAUSE	A2
109	PREV	A#2
110	NEXT	B2
111	SETTING	C3
112	SELECT	C#3
113	HARMONY ECHO	D3
114	INITIAL TOUCH	D#3
115	SUSTAIN	E3
116	MONO	F3
117	DSP	F#3
118	DSP VARIATION	G3
119	INTERNET	G#3
120	PIANO	A3
121	E.PIANO	A#3
122	ORGAN	B3
123	STRINGS	C4
124	CHOIR	C#4
125	BRASS	D4
126	TRUMPET	D#4
127	SAXOPHONE	E4
128	FLUTE/CLARINET	F4
129	MUSIC FINDER	F#4
130	GUITAR	G4
131	BASS	G#4
132	PERC./DRUM KIT	A4
133	ACCORDION	A#4
134	PAD	B4
135	SYNTH	C5
136	ORGAN FLUTES	C#5
137	EXPANSION	D5
138	USER DRIVE	D#5
139	REGIST BANK –	E5
140	REGIST BANK +	F5
141	FREEZE	F#5
142	MEMORY	G5
143	OTS 1	G#5
144	OTS 2	A5
145	OTS 3	A#5
146	OTS 4	B5
147	PART SELECT LEFT	C6
148	PART SELECT RIGHT1	C2
149	PART SELECT RIGHT2	C#2
150	PART SELECT RIGHT3	D2
151	REGIST. MEMORY 1	D#2
152	REGIST. MEMORY 2	E2
153	REGIST. MEMORY 3	F2
154	REGIST. MEMORY 4	F#2
155	REGIST. MEMORY 5	G2
156	REGIST. MEMORY 6	G#2
157	REGIST. MEMORY 7	A2
158	REGIST. MEMORY 8	A#2
159	LEFT HOLD	B2
160	PART ON/OFF LEFT	C3
161	PART ON/OFF RIGHT1	C#3
162	PART ON/OFF RIGHT2	D3
163	PART ON/OFF RIGHT3	D#3

FLASH MEMORY EXPANSION MODULE CHECK

1. Install the flash memory expansion module to the Tyros4 when the Tyros4's power is turned off. (See page 25.)

2. While holding down the [F] button and [J] button, turn on the power switch.

3. The device information indication mode will be started and the following screen will be shown.

```
========================
        Device Information
========================

    [ A ] : USB Storage

    [ B ] : Expansion Module

    [ C ] : Internal HDD

    Press [EXIT] to quit.
```

4. Press the [B] button to go to the expansion module information indication screen.

```
========================
    Expansion Module Information
========================

  Capacity          :  1024 [MB]
  System Version    :  1.00
  Instrument        :  Tyros4

  R/W result        :  --

Press [START] to R/W(verify) test.
Press [BREAK] to read test.

Press [DEMO] to write test data.
Press [EXIT] to quit.
```

5. Press the [START/STOP] button to start Read/Write check.

```
========================
    Expansion Module Information
========================

  Capacity          :  1024 [MB]
  System Version    :  1.00
  Instrument        :  Tyros4

      Now Executing..      20%

  Do not turn off the power.
```

6. When the Read/Write check is completed successfully, "OK" will be shown in the R/W result field.
"NG" will be shown if an error is detected.

```
========================
    Expansion Module Information
========================

  Capacity          :  1024 [MB]
  System Version    :  1.00
  Instrument        :  Tyros4

  R/W result        :  OK(verify)

Press [START] to R/W(verify) test.
Press [BREAK] to read test.

Press [DEMO] to write test data.
Press [EXIT] to quit.
```

In case of OK

```
========================
    Expansion Module Information
========================

  Capacity          :  1024 [MB]
  System Version    :  1.00
  Instrument        :  Tyros4

  Test Result       :  NG (ICxxx/ICxxx)

Press [START] to R/W(verify) test.
Press [BREAK] to read test.

Press [DEMO] to write test data.
Press [EXIT] to quit.
```

In case of NG
xxx: IC (WaveH/L) number

FORMATTING HDD

1. While holding down the [F] button and [J] button, turn on the power switch.

2. The device information indication mode will be started and the following screen will be shown.

```
========================
      Device Information
========================

   [ A ] : USB Storage

   [ B ] : Expansion Module

   [ C ] : Internal HDD

   Press [EXIT] to quit.
```

3. Press the [C] button to go to the internal HDD information indication screen. If unformatted, "UNFORMAT DISK" will be shown.

```
========================
    Internal HDD Information
========================

  UNFORMAT DISK

        Press [DEMO] to format.
        Press [EXIT] to quit.
```

Even for an internal HDD formatted on another Tyros4 information will be displayed, but the "Volume Name" will be empty or another name than "_TYROS4HDD_" will be indicated.

```
========================
    Internal HDD Information
========================

    Vender ID     :  I-O DATA
    Product ID    :  HDPN-U
    Revision      :  9.60
    Capacity      :  232.75 [GB]
    Serial ID     :  Exist
    Volume Name   :

    R/W test      :

        Press [START/STOP] to test.
        Press [DEMO] to format.
        Press [EXIT] to quit.
```

4. Press the [DEMO] button to execute formatting. "Formatting …" will be indicated during formatting procedure.

5. Information of the internal HDD will be shown when the formatting is completed. The formatting is executed normally if "_TYROS4HDD_" is shown in the "Volume Name" field. (If an error occurrs, only error message will be indicated. Refer to the error message list at the end of this section.)

```
========================
    Internal HDD Information
========================

    Vender ID     :  I-O DATA
    Product ID    :  HDPN-U
    Revision      :  9.60
    Capacity      :  232.75 [GB]
    Serial ID     :  Exist
    Volume Name   :  _TYROS4HDD_

    R/W test      :

        Press [START/STOP] to test.
        Press [DEMO] to format.
        Press [EXIT] to quit.
```

(Example)

6. Press the [START/STOP] button to start Read/Write test. A countdown indication from 10 to 1 will appear in the R/W test field as the checking is executed. Countdown indication from 10 to 1 will appear three times as three types of checking is executed.
7. When the Read/Write test is completed successfully, "OK" will be shown in the R/W test field. "NG" will be shown if an error is detected.

```
========================
    Internal HDD Information
========================

    Vender ID     :  I-O DATA
    Product ID    :  HDPN-U
    Revision      :  9.60
    Capacity      :  232.75 [GB]
    Serial ID     :  Exist
    Volume Name   :  _TYROS4HDD_

    R/W test      :  OK

        Press [START/STOP] to test.
        Press [DEMO] to format.
        Press [EXIT] to quit.
```

(Example)

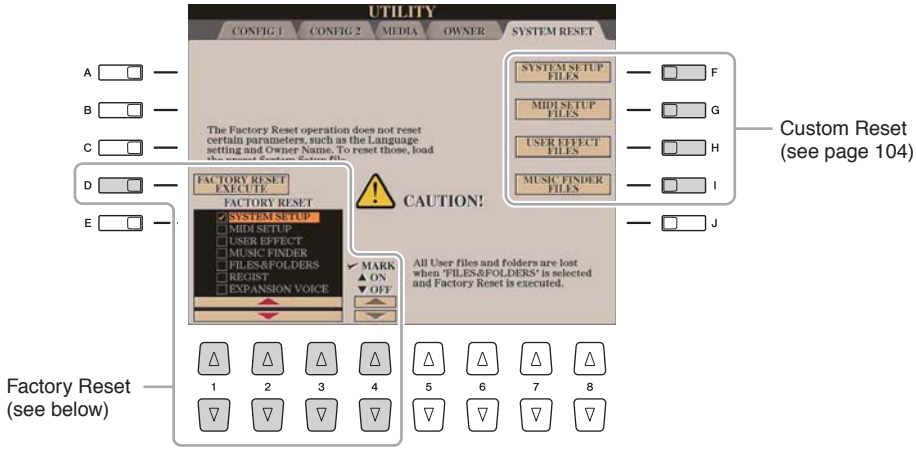
8. When the "OK" is displayed in the Read/Write test, the checking is finished. Turn off the power switch.

• Error messages list

· Unformatted "UNFORMAT DISK"
· Device error "DEVICE ERROR"
· HDD unrecognized "NO DEVICE"

SYSTEM RESET

There are two reset methods in the SYSTEM RESET display: Factory Reset and Custom Reset.



Factory Reset–Restoring the Factory Programmed Settings

This function lets you restore the status of the Tyros4 to the original factory settings.

1 **Select the desired item to be restored by using [1▲▼]–[3▲▼] buttons and add a checkmark to it by pressing the [4 ▲] (MARK ON) button.**

To remove the checkmark, press the [4▼] (MARK OFF) button.

SYSTEM SETUP	Restores the System Setup parameters to the original factory settings. Refer to the Data List for details about which parameters belong to the System Setup.
MIDI SETUP	Restores the MIDI settings including the MIDI templates on the USER tab display to the original factory status.
USER EFFECT	Restores the User Effect settings including the user effect types, user master EQ types and user compressor types created via the Mixing Console display, as well as the user vocal harmony types and user microphone setting memories to the original factory settings.
MUSIC FINDER	Restores the Music Finder data (all records) to the original factory settings.
FILES & FOLDERS	Deletes all files and folders stored in the USER tab display.
REGIST	Temporarily deletes the current Registration Memory settings of the selected Bank. The same can be done also by turning the power on while holding the B5 key (right-most B key on the keyboard).
EXPANSION VOICE	Deletes all Expansion Voices.

2 **Press the [D] (FACTORY RESET EXECUTE) button to execute the Factory Reset operation for all checkmarked items.**

Custom Reset–Saving and Recalling Your Original Settings as a Single File

For the items below, you can save your Original Settings as a Single File for future recall.

1 **Make all desired settings on the instrument.**

2 **Call up the operation display.**
[FUNCTION] → [I] UTILITY → TAB [◀][▶] SYSTEM RESET

3 **Press one of the [F]–[I] buttons to call up the relevant display for saving your data**

[F]	**SYSTEM SETUP FILES**	Parameters set on the various displays such as the [FUNCTION] → [I] UTILITY and microphone setting display are handled as a single System Setup file. Refer to the Data List for details on which parameters belong to the System Setup.
[G]	**MIDI SETUP FILES**	The MIDI settings including the MIDI templates on the USER tab display are handled as a single file.
[H]	**USER EFFECT FILES**	The User Effect settings including the user effect types, user master EQ types and user compressor types created via the Mixing Console display, as well as the user vocal harmony types and user microphone setting memories are managed as a single file.
[I]	**MUSIC FINDER FILES**	All the preset and created records of the Music Finder are handled as a single file.

4 **Use the TAB [◀][▶] buttons to select one of the tabs (other than the PRESET) to which your settings will be saved.**

5 **Press the [6▼] (SAVE) button to save your file.**

6 **To recall your file, press the desired [F]–[I] buttons in the SYSTEM RESET display, then select the desired file.**
When the file is selected, a message is displayed according to the content of the file. Press the desired button.

OS UPDATE

⚠CAUTIONS

- While updating the program software, do not turn off the power or do not pull out the USB memory.
- It takes about 5 minutes to update the program software.

1 Preparation

Download the Tyros4 updated program from the download page on the YSISS home page to the USB memory.
(YSISS URL>>http://plaza.yamaha.co.jp/ysiss/exindex.nsf)
(Insert the USB memory containing only the update program into the USB terminal of the Tyros4.)

Tools required for update:
USB memory
(containing only the update program to be installed)

The program software in the USB memory

- Installer:
  TYROS4INST.PRG
- The main body of the program data (Boot part):
  TYROS4MAINBOOT.PRG
- The main body of the program data:
  TYROS4mainprg1.prg - TYROS4mainprg5.prg

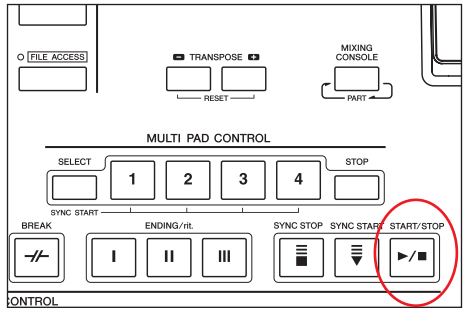
2 Executing the software update

2-1 Connect the USB memory to the Tyros4.
Connect the USB memory containing only the update program data to the [USB TO DEVICE] terminal on the front panel.
CAUTIONS: Make sure of the direction of the USB memory before inserting it.
(The reverse insertion may cause the damage on the [USB TO DEVICE] terminal.)
Do not turn off the power during the program update.
Do not remove the USB memory from the [USB TO DEVICE] terminal until the update has been completed.

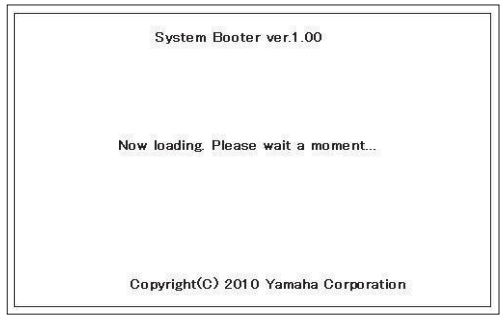


2-2 Installing the update program

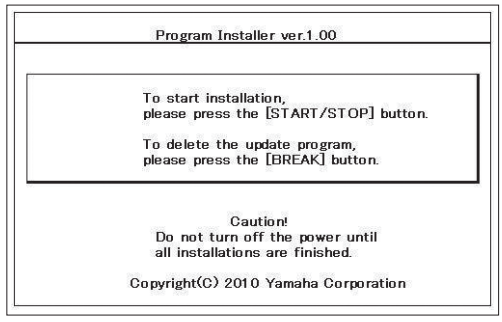
2-2-1 Turn the power on with the [START/STOP] button pressed and held.



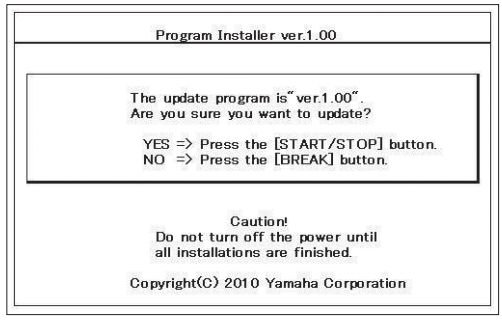
2-2-2 Keep pressing the [START/STOP] button until the following screen is displayed on the LCD.



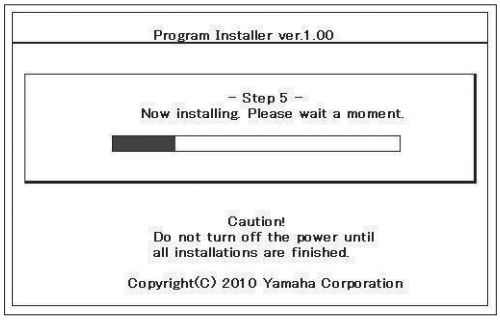
2-2-3 After a while, the following screen is displayed. (Occasionally, it might take more time.)



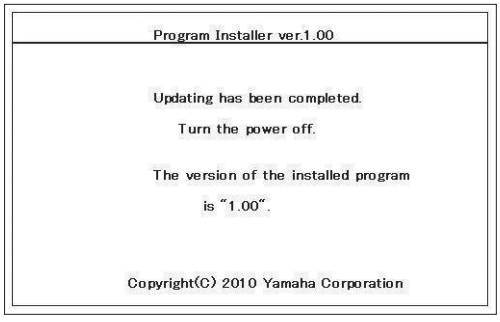
2-2-4 Press the [START/STOP] button to display the following screen.



2-2-5 Press the [START/STOP] button again to start the installation.
(It will take more time.)



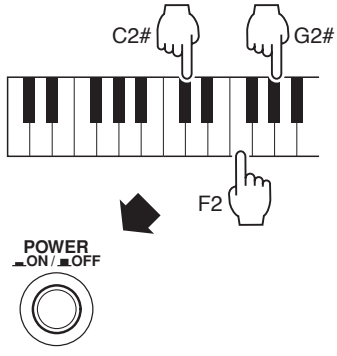
2-2-6 When the installations are finished, the following screen is displayed on the LCD.



2-2-7 Turn the power off.

3 Verifying the program version

3-1 Turn the power on with the [C2#], [F2] and [G2#] keys (C2# major chord) pressed and held.



3-2 **"TEST"** display appears, and the test mode starts.
3-3 Press the [TEMPO+] button or turn the [DATA ENTRY] dial clockwise to display **"001: Version"**.
3-4 Press the [START/STOP] button to display the version of each data.
3-5 Confirm that the version of the main program is the same as the version installed this time.
3-6 Press the [START/STOP] button again to return to the wait state for test number.

4 Executing the factory set

4-1 Press the [TEMPO–] button or turn the [DATA ENTRY] dial counterclockwise to display **"061:Factory Set"**.
4-2 Press the [START/STOP] button to execute the factory set.
4-3 **"Factory Set OK"** appears on the LCD.
4-4 Press the [START/STOP] button again to return to the wait state for test number.
4-5 Press the [TEMPO+] button or turn the [DATA ENTRY] dial clockwise to display **"062:Test Exit"**.
4-6 Press the [START/STOP] button to reboot the Tyros4.
4-7 When the main screen appears normally, the factory set is completed. (Occasionally, it might take a few minutes.)
CAUTION: Do not turn the power off before the main screen shows up.
4-8 Turn the power off.

5 Ending the program installation

The program installation is completed here.

● TROUBLESHOOTING

Q1. Power has been turned off or the USB memory has been removed during operation.

A1. It is neccesary to re-installation the program. Perform the installation procedure from initial step.

Q2. An error message appears on the screen and installation can not be performed.

A2. Check the following points.

- Is the USB memory is inserted properly?
- Is not there any dirt on the USB memory terminal?
- Does the USB memory contain the whole renewal data (program) in the root directory?
- Is not any damage of the data (program) in the USB memory or the USB memory itself?
- Is the renewal data (program) mactched with the model?
- Perform reinstallation using another USB memory.

INITIALIZING INTERNET SETUP

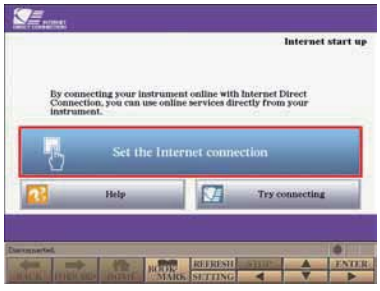
⚠CAUTION

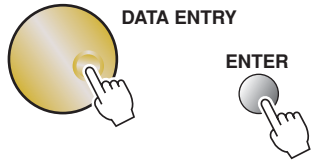
This restores the network settings to the default settings.

1 Press the [INTERNET] button.

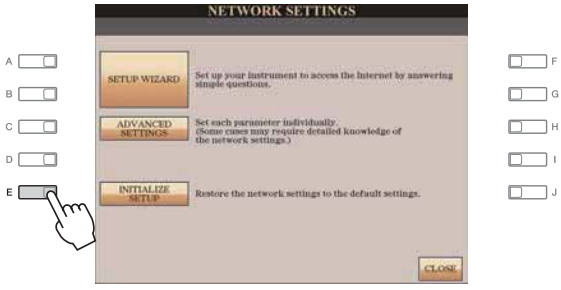


2 Use the [DATA ENTRY] dial to select "Set the Internet connection," then press the [ENTER] button to execute.





3 Press the [E] button to select "INITIALIZE SETUP."



4 Press the [G](YES) button to initialize the settings.

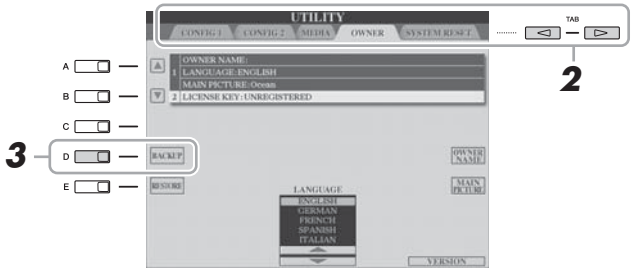


DATA BACKUP

For maximum data security Yamaha recommends that you copy or save your important data to a USB storage device. This provides a convenient backup if the internal memory is damaged.

1 **Insert/connect the backup USB storage device (destination).**

2 **Call up the operation display.**
[FUNCTION] → [I] UTILITY → TAB [◀] [▶] OWNER



3 **Press the [D] (BACKUP) button to save the data to the USB storage device.**

To restore the data, press the [E] (RESTORE) button in this display. When the operation is complete, the instrument will be restarted automatically.

NOTE

Completing the backup/restore operation may take a few minutes.

⚠ CAUTION

Move the Protected Songs which are saved to the USER display before restoring. If the songs are not moved, the operation deletes the data.

NOTE

To save the Song, Style, Multi Pad, Registration Memory Bank and Voice independently, execute the Copy & Paste operation from the File Selection display.

NOTE

To save the Music Finder Record, Effect, MIDI Template and System File, call up the operation display: [FUNCTION] → [I] UTILITY →TAB [◀] [▶] SYSTEM RESET. For more information, refer to the Reference Manual on the website.

DISPLAY MESSAGES

[BOOTER]

Displayed message	Meaning	Progress/status	How to service
Now loading. Please wait a moment...	Data is being loaded. Wait a while.	The installer file is being loaded.	
Media error!	Media error!	Installer file loading error (media error) Failed in loading the installer file Part of the media is damaged (I/O error)	Replace the installation media and perform again.
Installer program checksum error!	Installer checksum error!	Installer file loading error (checksum error) Checksum in the installer file disagrees. File damaged Tampered	Perform again with a proper installation file. Replace the installation media and perform again.
Please eject the media.	Remove the media.	When an error occurs	Confirm the media or the installation file.
Please insert the Installer media.	Install the installation media.	A media containing the installer is not connected when the booter is started.	Insert the media. Disconnect the USB memory from Tyros4 except the installation use.
Installer program not found!	No installer found.	When the installation file is undetected The installer file corresponding to the instrument is not found	Store the installation file again and perform reinstallation.
Installer program data error!	Installation program error!	The installer is defective File damaged Tampered Version mismatch	Perform again with a proper installation file.
Installer program data mismatch!	Installation updater error!	When the installer is mismatched Loading of an installer for a different model has been attempted Loading of an installer for a version which cannot be updated has been attempted	
Program error!	Program error!	Starting is disabled because the main program has not been detected The instrument program has not been installed	Perform installation.
Please install the program.	Install the program.	same as above	
Error! Unformatted or incompatible data.	Unformatted or unsupported error!	The installer cannot be loaded from the installer The media is not formatted in any one format of FAT12, FAT16 or FAT32 Unformatted System area in the media is damaged	Perform again with the media of the FAT12, FAT16 or FAT32 format.

[INSTALLER]

Displayed message	Meaning	Progress/status	How to service
Now checking. Please wait a moment…	Data is being loaded. Wait a while.	Data is being loaded	–
Now installing. Please wait a moment…	During installing. Wait a while.	During installation of data	–
Now deleting. Please wait a moment...	Data is being deleted. Wait a while.	During data deletion	–
E001 Install data read error!	Data loading error!	When an error occurs (Installation data error)	Store the media or installation file again and perform reinstallation.
E002 Install data checksum error!	Data checksum error!		
E003 Install data address error!	Data address error!		
E004 Flash ID error!	Flash ROM ID error!	When an error occurs (Flash ROM writing disabled)	Change the Program Flash ROM and confirm WritePin.
E005 Flash erase error!	Flash ROM deletion error!		
E006 Flash write error!	Flash ROM writing error!		
E007 Flash verify error!	Flash ROM verify error!		
E008 Flash checksum error!	Flash ROM checksum error!		
E009 Install data ID error!	Data ID error!	The installation data is not intended for this model.	Perform again with a proper installation file.
E010 Can't downgrade!	Data version error!	Cannot return the program to the old version.	
E011 Install data does not exist.	Upgrading data not found.	Data not contained in the media	Store the media or installation file again and perform reinstallation.
E012 Can't delete the install data.	The version upgrading data can not be deleted.	When an error occurs (Media writing disabled)	Release the write protect of the media.
Updating has been completed. Turn the power off. The version of the installed program is X.XX.	Installation completed. Turn off the power and then turn on again. The version of the installed program is “X.XX”.	When the installing completed	–
To start installation, please press the [START/STOP] button. To delete the update program, please press the [BREAK] button.	To start the installation, press the [START/STOP] button. To delete the version upgrading data, press the [BREAK] button.	When the installer is started.	–
The update program is ver.X.XX. Are you sure you want to update? YES: Press the [START/STOP] button. NO: Press the [BREAK] button.	Version upgrading data is "ver.X.XX". Do you start installing? YES: Press the [START/STOP] button. NO: Press the [BREAK] button.	When the completion of the installation is detected	–
The update program is ver.X.XX. Are you sure you want to delete? YES: Press the [START/STOP] button. NO: Press the [BREAK] button.	Version upgrading data is "ver.X.XX". Do you delete the data? YES: Press the [START/STOP] button. NO: Press the [BREAK] button.	When the deletion of the data is detected	–

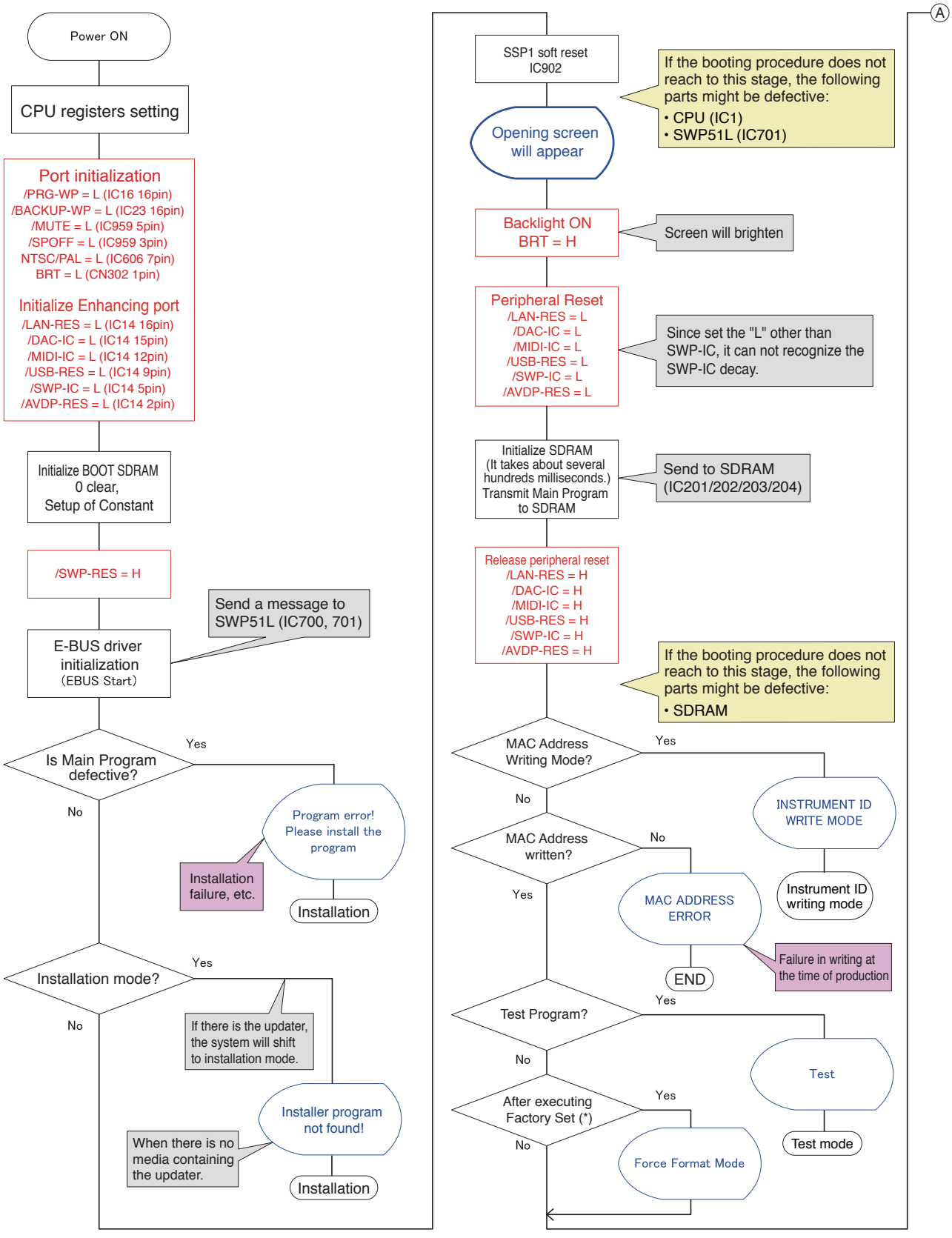
[At start]

Displayed message	Meaning	Progress/status	How to service
Improper power shut down! Backup data and/or User files have been lost.	Power has not been turned off normally. Backup data and user file have been lost.	Data is being restored as defect has been detected in the data backed up in the data flash ROM.	–
Initializing system setup.	System setup being initialized	During execution of Factory Set	–
Force Format Mode.	Forced clear	Factory Reset is performed in the forced clear mode	–
Initializing registration backup.	Registration backup being initialized	When the registration backup data is cleared	–
Data Flash ROM Device Error.	Flash ROM data error	Starting is disabled because the data flash ROM is damaged	Replace the DM circuit board. (Because the MAC address is included.)
MAC ADDRESS ERROR !!	MAC address error	MAC address is not written or defective	
Device error! The pedal and Vocal Harmony functions are not effective.	The device for VH does not work. The pedal and vocal harmony function do not work.	There is no reply from SSP1. The uptake of the pedal, microphone input and the vocal harmony function do not work, but the other functions work.	Replace the SSP1 peripheral device.

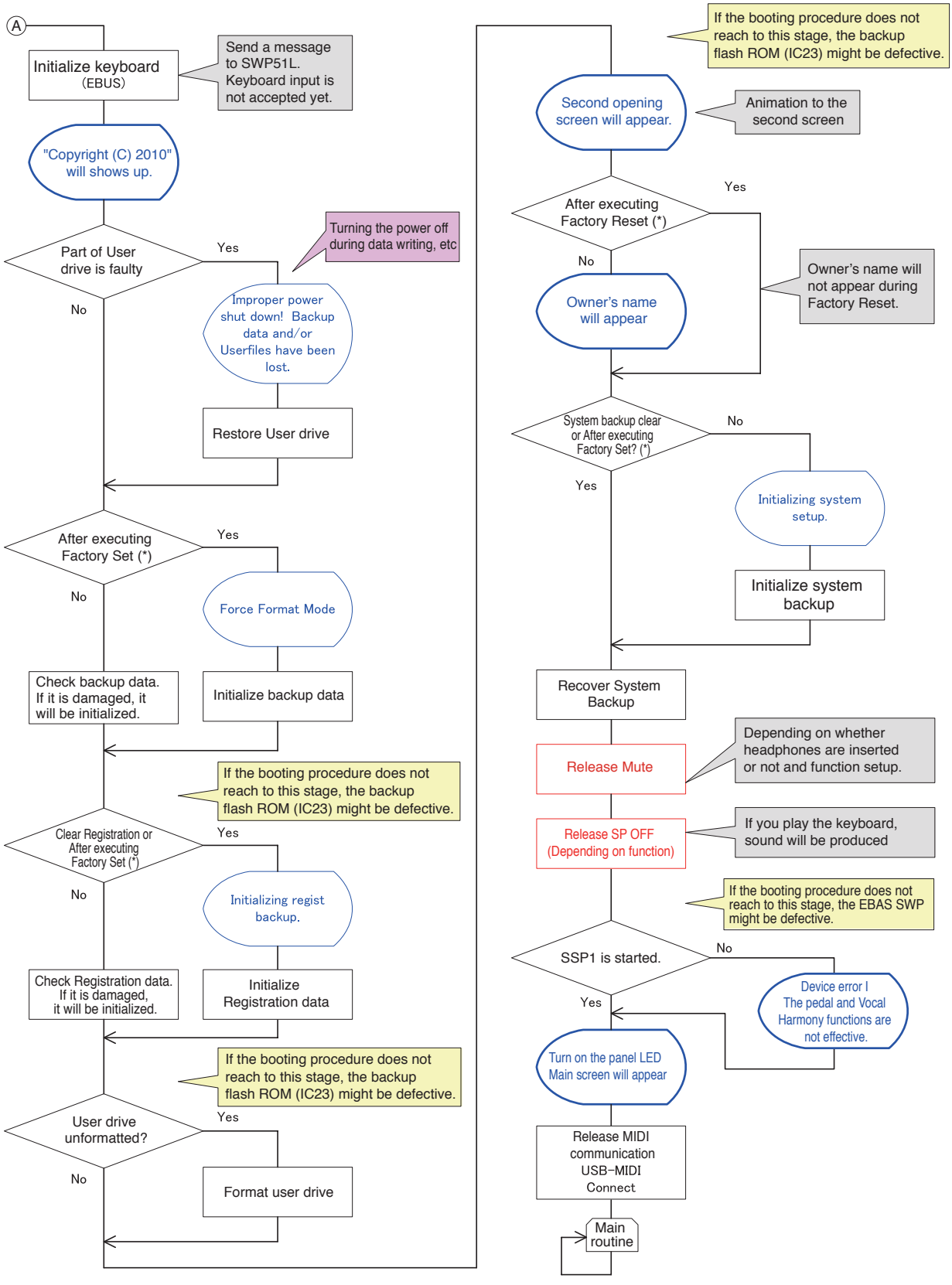
[ASSERTION]

Displayed message	Meaning	Progress/status	How to service
–––––––––––––––––––––––––– Unexpected error! (main) Turn the power off and on again –––––––––––––––––––––––––– Parameter 1 Parameter 2 / Parameter 3	Fatal error occurred. Turn off the power and then turn on again.	MAIN side Unexpected error System down	Reboot Check the trouble points by the test program. Perform “Factory Reset”, and reboot. (See page 102 “SYSTEM RESET”.)
–––––––––––––––––––––––––– Unexpected error! (sub) Turn the power off and on again –––––––––––––––––––––––––– Parameter 1 Parameter 2 / Parameter 3		SSP1 side Unexpected error System down	

SYSTEM BOOTING FLOWCHART



* “After executing Factory Set” refers to the condition when the power is turned on after executing “Factory Set” in the Test Program.


A
Initialize keyboard (EBUS)
Send a message to SWP51L. Keyboard input is not accepted yet.
"Copyright (C) 2010" will shows up.
Part of User drive is faulty
Yes
No
Turning the power off during data writing, etc
Improper power shut down! Backup data and/or Userfiles have been lost.
Restore User drive
After executing Factory Set (*)
Yes
No
Force Format Mode
Check backup data. If it is damaged, it will be initialized.
Initialize backup data
If the booting procedure does not reach to this stage, the backup flash ROM (IC23) might be defective.
Clear Registration or After executing Factory Set (*)
Yes
No
Initializing regist backup.
Check Registration data. If it is damaged, it will be initialized.
Initialize Registration data
If the booting procedure does not reach to this stage, the backup flash ROM (IC23) might be defective.
User drive unformatted?
Yes
No
Format user drive
If the booting procedure does not reach to this stage, the backup flash ROM (IC23) might be defective.
Second opening screen will appear.
Animation to the second screen
After executing Factory Reset (*)
Yes
No
Owner's name will appear
Owner's name will not appear during Factory Reset.
System backup clear or After executing Factory Set? (*)
No
Yes
Initializing system setup.
Initialize system backup
Recover System Backup
Release Mute
Depending on whether headphones are inserted or not and function setup.
Release SP OFF (Depending on function)
If you play the keyboard, sound will be produced
If the booting procedure does not reach to this stage, the EBAS SWP might be defective.
SSP1 is started.
No
Yes
Device error I The pedal and Vocal Harmony functions are not effective.
Turn on the panel LED Main screen will appear
Release MIDI communication USB-MIDI Connect
Main routine

DIGITAL WORKSTATION

Tyros4

PARTS LIST

■ CONTENTS

OVERALL ASSEMBLY 2
UPPER CASE UNIT 4
LOWER CASE UNIT 7
LCD UNIT 10
KEYBOARD ASSEMBLY 12
WHEEL ASSEMBLY 14
ELECTRICAL PARTS 15-45

Notes : DESTINATION ABBREVIATIONS

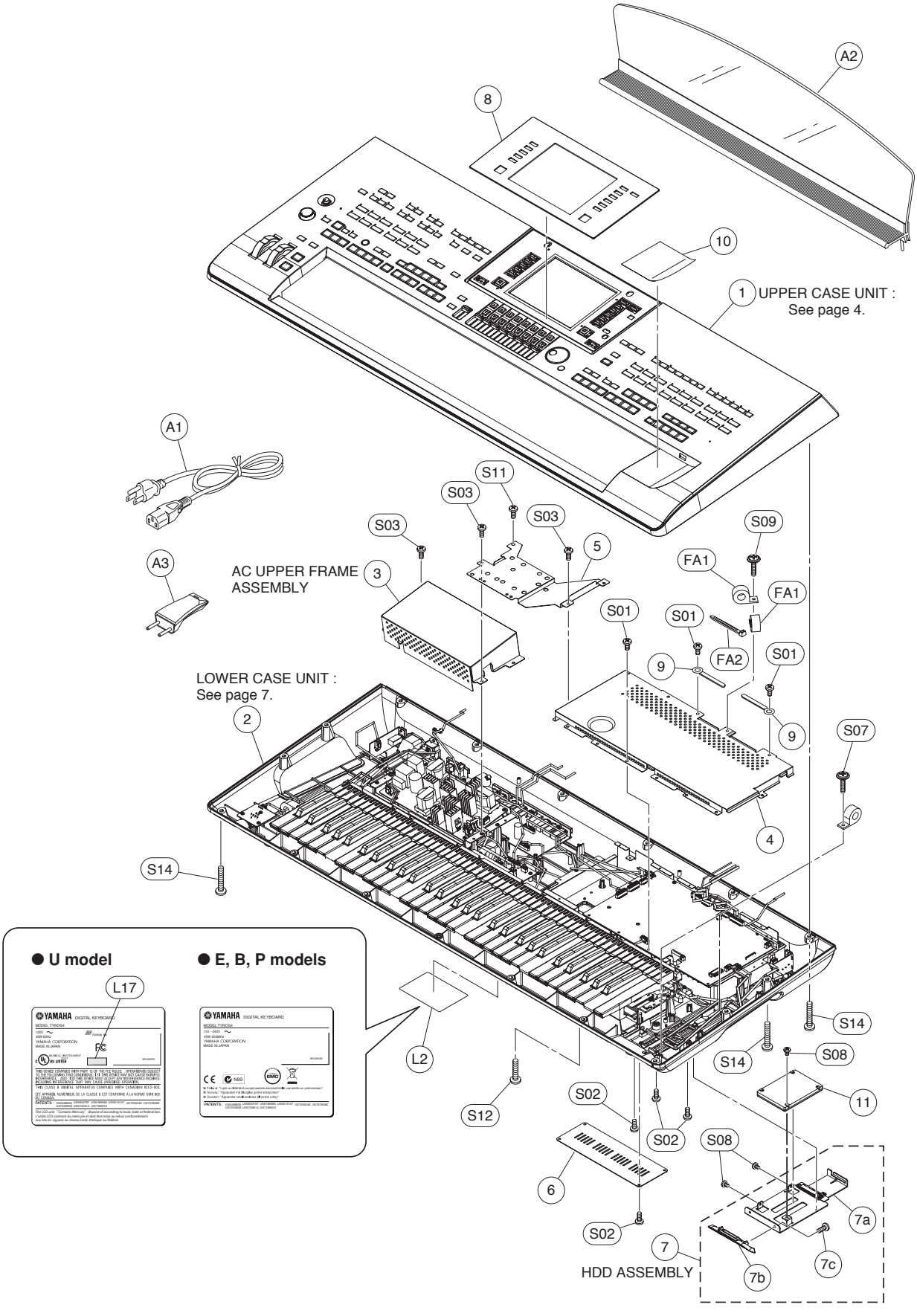
A :	Australian model	M :	South African model
B :	British model	O :	Chinese model
C :	Canadian model	Q :	South-east Asia model
D :	German model	P :	Brazilian model
E :	European model	T :	Taiwan model
F :	French model	U :	U.S.A. model
H :	North European model	V :	General export model (110V)
I :	Indonesian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

■ WARNING

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

- The numbers “QTY” show quantities for each unit.
- The parts with “--” in “PART NO.” are not available as spare parts.
- This 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

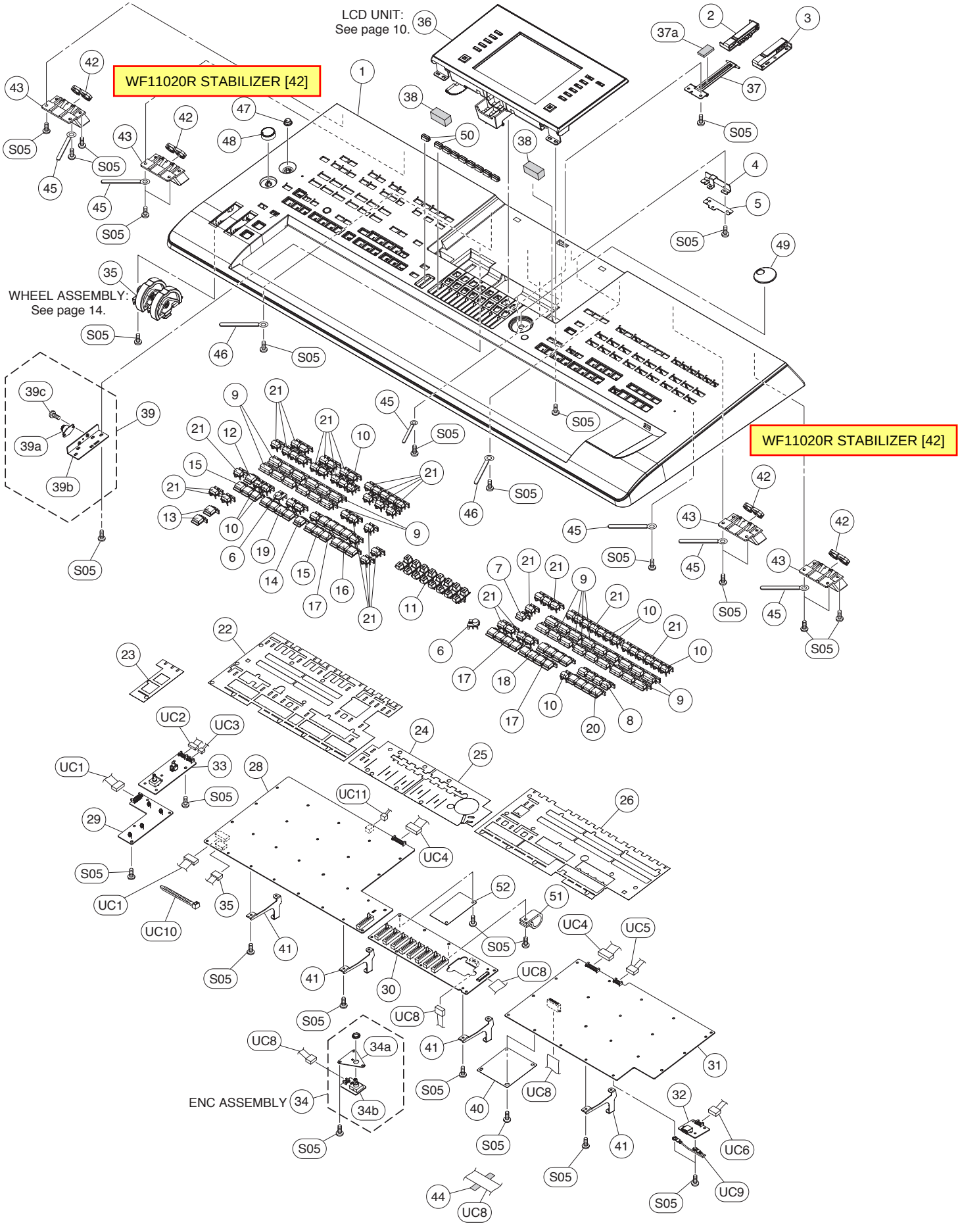


	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
			OVERALL ASSEMBLY		総組立	Tyros4		
		--	OVERALL ASSEMBLY		総組立U	U (WU90760)		
		--	OVERALL ASSEMBLY		総組立	E,B,P (WU48040)		
	1	--	UPPER CASE UNIT		上ケースユニット	(WU61800)		
	2	--	LOWER CASE UNIT U		下ケースユニットU	U (WU90830)		
	2	--	LOWER CASE UNIT		下ケースユニット	E,B,P (WU61810)		
	3	--	AC UPPER FRAME ASSEMBLY		電源上フレームAss'y	(WF32810)		
	4	--	DM COVER ASSEMBLY		DMカバーAss'y	(WW45120)		
	5	--	ACDM EARTH ANGLE		ACDMアース金具	(WN43990)		
	6	WN440000	DIMM COVER		DIMMカバー			07
	7	--	HDD ASSEMBLY		HDD_Ass'y	(WU61820)		
	7a	--	HDD BRACKET		HDDブラケット	(WU61970)		
	7b	WN332300	HDD FRONT COVER		HDDフロントカバー			05
	7c	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Bタイト+BIND		2	01
*	8	WV251900	LCD COVER		LCDカバー			
	9	CB81751R	WIRE CLIP	S-14B-E,S-14	束線止め		2	03
	10	--	POP SEAL		POPシール	(WV34320)		
*	11	WU818300	HARD DISK DRIVE UNIT	2.5inch 250GB	ハードディスク			
	12	--	WIRING ASSEMBLY	FA	FA束線構成	(WU66530)		
	S01	WE774000	BIND HEAD SCREW	3.0X6 MFZN2W3	小ネジ+BIND		10	01
	S02	WE983600	BIND HEAD SCREW	3.0X8 MFZN2B3	小ネジ+BIND		7	01
	S03	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Bタイト+BIND		7	01
	S07	WF00210R	PW HEAD TAPPING SCREW-B	3.0X12 MFZN2W3	Bタイト+PWH		2	01
*	S08	WE967800	BIND HEAD SCREW	3.0X4 MFZN2W3	小ネジ+BIND		3	
	S09	WP817100	PW HEAD SCREW	3.0X12 MFZN2W3	小ネジ+PWH			01
	S11	WE968500	BIND HEAD SCREW	4.0X8 MFZN2W3	小ネジ+BIND			01
	S12	WE96650R	BIND HEAD SCREW	4.0X10 MFZN2W3	小ネジ+BIND		4	01
	S14	WF15410R	BIND HEAD TAPPING SCREW-B	4.0X16 MFZN2W3	Bタイト+BIND		25	01
		--	WIRING ASSEMBLY	FA	FA束線構成	(WU66530)		
	FA1	V312290R	DATA LINE FILTER	K1 NFT-13BK2	データラインフィルタ		2	06
	FA1	VD94780R	DATA LINE FILTER	ESD-R-25D-B	データラインフィルタ		2	05
	FA2	CB06925R	BINDING TIE	BK-1 (10pcs/pack)	インシュロックタイ			01
	FA2	VV55840R	CORD BINDER	AZ-100	結束バンド			01
			ACCESSORIES		付属品			
⚠	A1	V6190600	AC CORD	CSA UC-972-N01	電源コードCSA	U		07
⚠	A1	WC249500	AC CORD	U 3P 10A	電源コード			05
⚠	A1	WC24960R	AC CORD	H05VV-FX3 0.7 E 3P 10A	電源コード	E		05
⚠	A1	V506770R	AC CORD	CE 3P 10A	電源コード			08
⚠	A1	WE66730R	AC CORD	BS	電源コード	B		09
⚠ *	A1	WV195200	AC CORD	B 3P 10A	電源コードセット			
⚠	A1	WU795000	AC CORD	BRA 3P 10A 2.5m	電源コードセット	P		
	A2	WB530800	MUSIC REST	P-120	譜面板(箱入り)			15
	A3	WF18010R	SCORE STAND ASSEMBLY		スタンド袋入り		2	06
*		YC581A00	CD-ROM		光ディスク			
	L2	--	NAME PLATE	U	銘板	U (WV40520)		
	L2	--	NAME PLATE	E	銘板	E,B,P (WV40530)		
	L17	--	LABEL	DE-TOKO-DO	ラベル	U (VA03930)		03

*: New Parts

RANK: Japan only

UPPER CASE UNIT



	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
			UPPER CASE UNIT		上ケースユニット	Tyros4		
		--	UPPER CASE UNIT		上ケースユニット	(WU61800)		
*	1	**WU619300**	UPPER CASE		上ケース印刷品			
	2	**V913660R**	STAY GUIDE L	LEFT	ステイガイド成形品L			03
	3	**V913670R**	STAY GUIDE R	RIGHT	ステイガイド成形品R			03
	4	--	LCD LOCK PLATE		LCDロックプレート	(WF30630)		
	5	--	LOCK PLATE COVER		ロックプレート蓋	(WF30640)		
	6	**WP216000**	PANEL BUTTON	x1	パネルボタン塗装品	TAP TEMPO, ENTER	2	03
	7	**WN134400**	BUTTON ASSEMBLY	x1	ボタンAss'y	MUSIC FINDER		05
	8	**WN134700**	BUTTON ASSEMBLY	x4	ボタンAss'y	PART SELECT		08
	9	**WP216100**	PANEL BUTTON	x3x2	パネルボタン塗装品	STYLE(POP&ROCK....FILE ACCESS), VOICE(PIANO....USER DRIVE)	5	05
	10	**WP216200**	PANEL BUTTON	x1	パネルボタン塗装品	SONG(LOOP), STYLE CTRL.(OTS LINK,AUTO FILL IN), AUDIO REC/PLAY(SETTING,SELECT), VOICE EFFECT(VARIATION), PART ON/OFF(LEFT HOLD)	7	03
	11	**WP216300**	PANEL BUTTON	x16	パネルボタン塗装品	1–8(△/▽)		06
	12	**WN135500**	BUTTON ASSEMBLY	x1	ボタンAss'y	STYLE CONTROL(ACMP)		05
	13	**WN297700**	BUTTON ASSEMBLY	x1	ボタンAss'y	ART.1, ART.2	2	05
	14	**WN135900**	BUTTON ASSEMBLY	x1	ボタンAss'y	STYLE CONTROL(BREAK)		05
	15	**WN136000**	BUTTON ASSEMBLY	x3	ボタンAss'y	STYLE CONTROL(INTRO I–III, ENDING/rit. I–III)	2	07
	16	**WN136100**	BUTTON ASSEMBLY	x3	ボタンAss'y	STYLE CTRL.(SYNC STOP, SYNC START,START/STOP)		07
	17	**WN136200**	BUTTON ASSEMBLY	x4	ボタンAss'y	MULTI PAD CONTROL(1–4), ONE TOUCH SETTING(1–4), REGISTRATION MEMORY(1–4)	3	08
	18	**WN136300**	BUTTON ASSEMBLY	x4	ボタンAss'y	REGISTRATION MEMORY(5–8)		08
	19	**WN136400**	BUTTON ASSEMBLY	x4	ボタンAss'y	STYLE CTRL.(MAIN VARIATION A–D)		08
	20	**WN136500**	BUTTON ASSEMBLY	x4	ボタンAss'y	PART ON/OFF(LEFT,RIGHT 1–3)		08
	21	**WP216400**	PANEL BUTTON	x6(x1,x2,x3,x5,x6)	パネルボタン塗装品	DEMO, MIC(VH TYPE SELECT....TALK), SONG(I....SCORE), TRANSPOSE(–,+) MIXING CONSOLE, FADE IN/OUT, TEMPO(–,+), CHANNEL ON/OF, BALANCE, MULTI PAD CTRL(SELSCT,STOP), MENU(FUNCTION....D.RECORDING), AUDIO REC/PLAY(REC....NEXT), VOICE EFFECT(HARMONY/ECHO....DSP), INTERNET, REGIST.MEMORY(R.BANK –,+, FREEZE,MEMORY)	9	04
	22	--	NONWOVEN FABRIC CLOTH		不織布	(WN11930)		
	23	--	NONWOVEN FABRIC CLOTH		不織布	(WN11940)		
	24	--	NONWOVEN FABRIC CLOTH		不織布	(WN11950)		
	25	--	NONWOVEN FABRIC CLOTH		不織布	(WN11960)		
	26	--	NONWOVEN FABRIC CLOTH		不織布	(WN11970)		
	27	--	WIRING ASSEMBLY	UC	UC束線構成	(WU64670)		
*	28	**WT902500**	CIRCUIT BOARD	PNL	PNLシート			
*	29	**WT902600**	CIRCUIT BOARD	PNLS	PNLSシート			
*	30	**WT902900**	CIRCUIT BOARD	PNC	PNCシート			
*	31	**WT903200**	CIRCUIT BOARD	PNR	PNRシート			
*	32	**WT903300**	CIRCUIT BOARD	USB	USBシート			
*	33	**WT902700**	CIRCUIT BOARD	MICVR	MICVRシート			
	34	--	ENC ASSEMBLY		ENC Ass'y	(WU61980)		
	34a	--	ENC STAY	1.0 PLATE	ENC固定金具	(WH43150)		
	34a	--	ENC STAY	1.0 PLATE	ENC固定金具	(WH43151)		
*	34b	**WT903000**	CIRCUIT BOARD	EN	ENシート			
	35	--	WHEEL ASSEMBLY		ホイールAss'y	(WN84220)		
*	36	**WU619400**	LCD UNIT		LCDユニット			
	37	--	STAY HINGE ASSEMBLY		ステイ金具Ass'y	(WN59290)		
	37a	--	CUSHION	L-24 25X15	クッション	(WT80150)		
	38	--	DUST PROOF CLOTH	CALMFLEX F-2	防塵フォーム	(V929030)	2	
	39	--	DUMPER ASSEMBLY		ダンパーAss'y	(WN75330)		
	39a	**V928760R**	ROTARY DAMPER	PT	ロータリーダンパー			06
	39b	--	DUMPER STAY		ダンパー取付け金具	(WN64950)		
	39c	**WE774000**	BIND HEAD SCREW	3.0X6 MFZN2W3	小ネジ十BIND		2	01
	40	--	PROTECT SHEET		保護シート	(WN11980)		
	41	--	PANEL STAY		パネルステイ	(WN11910)	4	
	42	**WF11020R**	STABILIZER		スタビライザー		4	02
	43	**WN142900**	ROD HOLDER		ロッドホルダー		4	03

*: New Parts

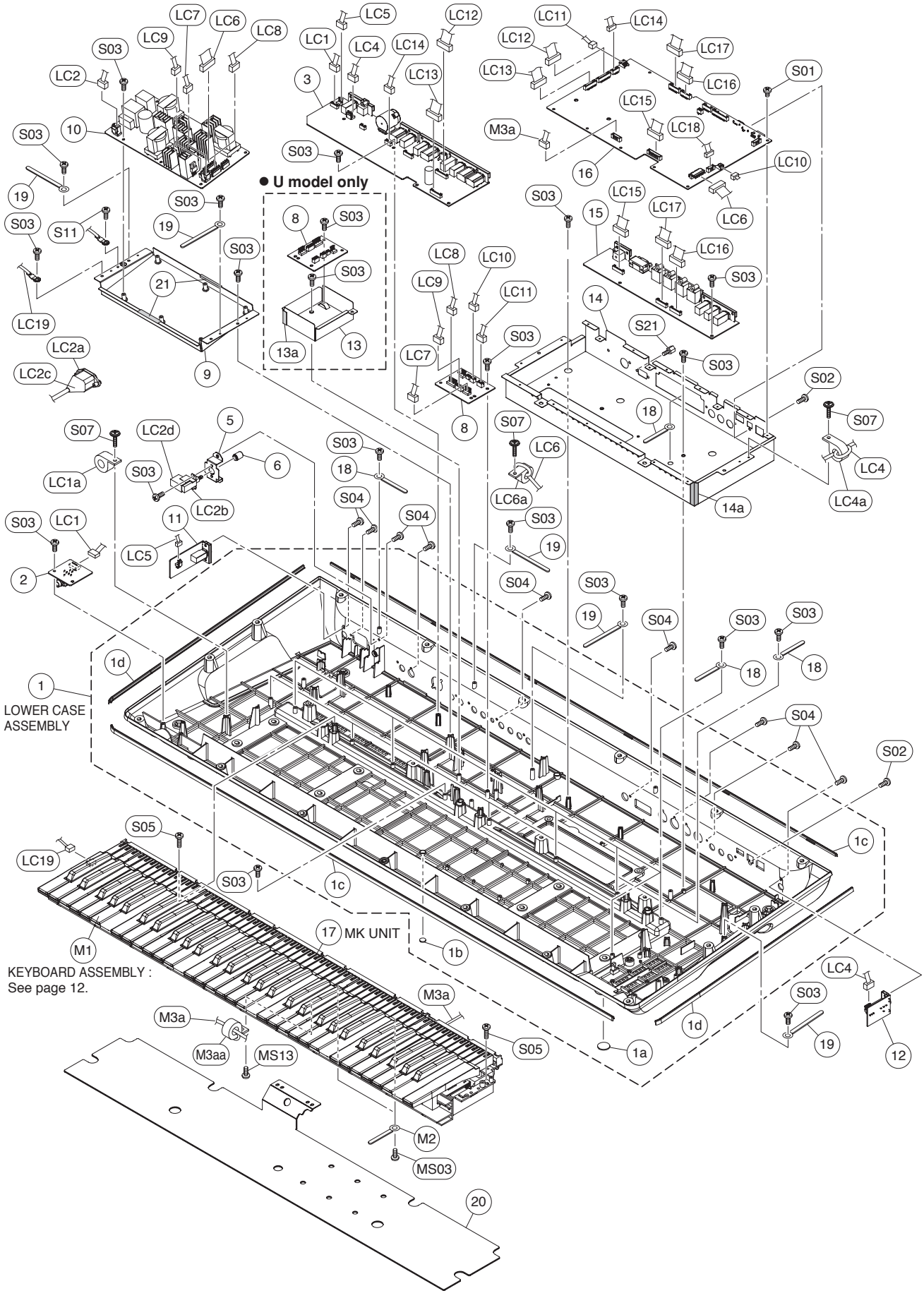
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REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
44	**22764900**	ADHESIVE TAPE	12X50m	粘着テープ			08
44	**VP83460R**	FILAMENT TAPE	12X50	粘着テープ			01
45	**CB829850**	CORD HOLDER	S-34B-E	束線止め		8	03
46	**CB81751R**	WIRE CLIP	S-14B-E,S-14	束線止め		3	03
47	**V230010R**	VOLUME KNOB		VRノブ	MIC GAIN		04
48	**VQ218900**	MASTER VOLUME KNOB		ヴーツマミ	MASTER VOLUME		03
49	**VQ664100**	ENCODER KNOB		エンコーダツマミ	DATA ENTRY		02
50	**WN163600**	SLIDER KNOB		スライダーノブ	ASSIGN, 1–8	9	01
51	**--**	NYLON CLAMP	NK-8N	ナイロンクランプ	(CB05059)		
52	**--**	PROTECT SHEET PNC		保護シートPNC	(WV60390)		
S05	**WE774200**	BIND HEAD TAPPING SCREW-B	3.0X10 MFZN2W3	Bタイト十BIND		112	01
	--	WIRING ASSEMBLY	UC	UC束線構成	(WU64670)		
UC1	**--**	CONNECTOR ASSEMBLY	PNLS PH-PH 10P	PNLS束線	(WN54580)		
UC2	**--**	CONNECTOR ASSEMBLY	VOL PH-PH 8P	VOL束線	(WU65350)		
UC3	**--**	CONNECTOR ASSEMBLY	MIC-VOL PH-PH 4P	MIC VOL束線	(WU65360)		
UC4	**--**	CONNECTOR ASSEMBLY	PNLR PH-PH 13P	PNLR束線	(WN54570)		
UC5	**VK105800**	CONNECTOR ASSEMBLY	KRD-KRD 7P L=300	KRD一KRD束線			02
UC6	**--**	USB CABLE	6P L=520	USBケーブル	(WV34310)		
UC8	**WN834100**	FFC CABLE	22P L=100	FFCケーブル			03
UC9	**--**	CONNECTOR ASSEMBLY	GND1 LUG-LUG 1P L=70	GND1束線	(WN74950)		
UC10	**CB06925R**	BINDING TIE	BK-1	インシュロックタイ			01
UC10	**VV55840R**	CORD BINDER	AZ-100	結束バンド			01
UC11	**--**	CONNECTOR ASSEMBLY	CK-PNL VH-VH 2P	CK一PNL束線	(WU64900)		

✻: New Parts

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LOWER CASE UNIT



	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
			LOWER CASE UNIT		下ケースユニット	Tyros4		
		--	LOWER CASE UNIT U		下ケースユニット U	U (WU90830)		
		--	LOWER CASE UNIT		下ケースユニット	E,B,P (WU61810)		
*	1	WU619500	LOWER CASE ASSEMBLY		下ケースAss'y			
	1a	V928180R	RUBBER FOOT	T1.6	ゴム脚		4	01
	1b	CB043753	RUBBER FOOT BLACK	T1.6	ゴム脚			05
	1c	--	CUSHION		クッション	(WN10530)	2	
	1d	--	CUSHION		クッション	(WN10540)	2	
*	2	WT901700	CIRCUIT BOARD	HP	HPシート			
*	3	WT901300	CIRCUIT BOARD	AJACK	AJACKシート			
	5	--	POWER SWITCH ANGLE	1.0 HATTO 54	PSWアングル	(WU61960)		
	6	CB825380	PUSH BUTTON		プッシュボタン	Power switch		03
	7	--	WIRING ASSEMBLY	LC	LC束線構成	(WU64660)		
*	8	WT902000	CIRCUIT BOARD	CK	CKシート			
	9	--	AC LOWER FRAME ASSEMBLY		電源下フレームAss'y	(WN55820)		
	10	WB50130R	POWER SUPPLY UNIT	CE,U,CS	電源ユニット			22
*	11	WT901800	CIRCUIT BOARD	SPOL	SPOLシート			
*	12	WT901900	CIRCUIT BOARD	SPOR	SPORシート			
	13	--	CK ANGLE ASSEMBLY		CKアングルAss'y	U (WU63670)		
	13a	WG526801	ADHESIVE TAPE	15X30	アセテートクロス粘着	U		09
	13a	--	ADHESIVE TAPE	ECT #590S W=15	綿粘着テープ	(ZL35000)		
	14	--	DM ANGLE ASSEMBLY		DMアングルAss'y	(WQ43100)		
	14a	WG526801	ADHESIVE TAPE	15X30	アセテートクロス粘着			09
	14a	--	ADHESIVE TAPE	ECT #590S W=15	綿粘着テープ	(ZL35000)		
*	15	WT901600	CIRCUIT BOARD	DJACK	DJACKシート			
*	16	WT759800	CIRCUIT BOARD	DM	DMシート			
	17	--	MK UNIT		MKユニット	(WN50810)		
	18	CB829850	CORD HOLDER	S-34B-E	束線止め		12	03
	19	CB81751R	WIRE CLIP	S-14B-E,S-14	束線止め		5	03
	20	WP202400	SHIELD SHEET MK		シールドシートMK			07
	21	--	NONWOVEN FABRIC CLOTH	10X50X0.55	不織布	(V243310)	2	
	S01	WE774000	BIND HEAD SCREW	3.0X6 MFZN2W3	小ネジ＋BIND		3	01
	S02	WE983600	BIND HEAD SCREW	3.0X8 MFZN2B3	小ネジ＋BIND			01
	S03	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Bタイト＋BIND	U	47	01
	S03	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Bタイト＋BIND	E,B,P	44	01
	S04	WE972200	BIND HEAD TAPPING SCREW-B	3.0X10 MFZN2B3	Bタイト＋BIND		23	01
	S05	WE774200	BIND HEAD TAPPING SCREW-B	3.0X10 MFZN2W3	Bタイト＋BIND		5	01
	S07	WF00210R	PW HEAD TAPPING SCREW-B	3.0X12 MFZN2W3	Bタイト＋PWH		3	01
	S11	WE968500	BIND HEAD SCREW	4.0X8 MFZN2W3	小ネジ＋BIND			01
	S21	V7569300	HEXAGONAL LOCK SCREW	HFS-4S-B1WM	6角ロックネジ		2	01
		--	MK UNIT		MKユニット	(WN50810)		
	M1	WD53490R	KEYBOARD ASSEMBLY	FSX D C61 K6	FSX鍵盤D			
	M2	CB829850	CORD HOLDER	S-34B-E	束線止め		2	03
	M3	--	WIRING ASSEMBLY	MK	MK束線構成	(WN71300)		
	M3a	--	CONNECTOR ASSEMBLY	EBUSK-LF KRD-KRD 7P L=500	EBUSK－LF束線	(WN75430)		
	M3aa	V312290R	DATA LINE FILTER	K1 NFT-13BK2	データラインフィルタ			06
	M3aa	VD94780R	DATA LINE FILTER	ESD-R-25D-B	データラインフィルタ			05
	MS03	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Bタイト＋BIND		2	01
	MS13	WE98120R	BIND HEAD TAPPING SCREW-B	4.0X12 MFZN2W3	Bタイト＋BIND			01
		--	WIRING ASSEMBLY	LC	LC束線構成	(WU64660)		
	LC1	WN754000	CONNECTOR ASSEMBLY	HP-LF KRD-KRD 6P L=600	HP－LF束線			05
	LC1a	V312290R	DATA LINE FILTER	K1 NFT-13BK2	データラインフィルタ			06
	LC1a	VD94780R	DATA LINE FILTER	ESD-R-25D-B	データラインフィルタ			05
	LC2	--	CONNECTOR ASSEMBLY	ACIN VH 3P	ACIN束線	(WU64820)		
⚠	LC2a	WA78260R	AC-IN CONNECTOR ACINLET	R-301(B18)	ACインレット	AC IN		02
⚠	LC2b	V8377400	POWER SWITCH	SY16-52-4(U99S2)/T	プッシュSW	Power switch		
	LC2c	VE469200	PLUG COVER	TRANSPARENCE	プラグカバー			04
	LC2d	V580080R	POWER SWITCH COVER IVORY/BLACK		パワースイッチカバー			01
	LC4	--	CONNECTOR ASSEMBLY	SPR VH-VH 3P L=1500	SPR束線	(WN75410)		
	LC4a	V312290R	DATA LINE FILTER	K1 NFT-13BK2	データラインフィルタ			06
	LC4a	VD94780R	DATA LINE FILTER	ESD-R-25D-B	データラインフィルタ			05
	LC5	--	CONNECTOR ASSEMBLY	SPL VH-VH 2P	SPL束線	(WU65300)		
	LC6	--	CONNECTOR ASSEMBLY	DM-PWR VH-VH 7P/6P L=850	DM－PWR束線	(WV34690)		
	LC6a	V312290R	DATA LINE FILTER	K1 NFT-13BK2	データラインフィルタ			06
	LC6a	VD94780R	DATA LINE FILTER	ESD-R-25D-B	データラインフィルタ			05
	LC7	--	CONNECTOR ASSEMBLY	AJK-PWR VH-VH 3P L=170	AJK－PWR束線	(WN78550)		
	LC8	--	CONNECTOR ASSEMBLY	PWR5V VH-VH 5P/4P	PWR5V束線	(WU65310)		
	LC9	--	CONNECTOR ASSEMBLY	PWR12V XH-XH 2P/4P	PWR12V束線	(WU65320)		

*: New Parts

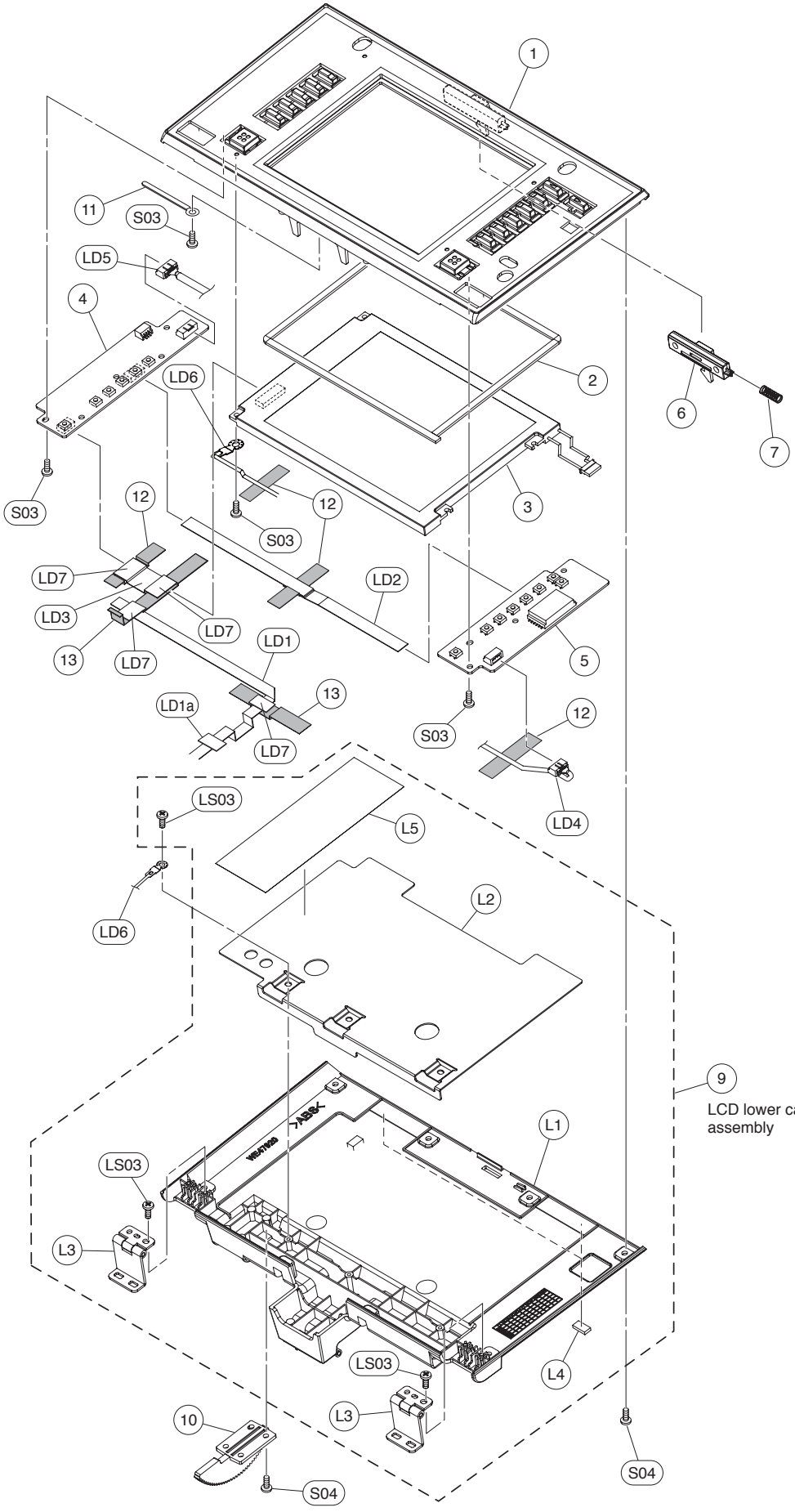
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REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
LC10	--	CONNECTOR ASSEMBLY	USB12V XH-XH 2P	USB12V束線	(WU65330)		
LC11	--	CONNECTOR ASSEMBLY	CK-DM XH-XH 3P	CK－DM束線	(WU65340)		
LC12	**VK108600**	CONNECTOR ASSEMBLY	KRD-KRD 11P L=350	KRD－KRD束線			03
LC13	**VK106100**	CONNECTOR ASSEMBLY	KRD-KRD 10P L=300	KRD－KRD束線			03
LC14	--	CONNECTOR ASSEMBLY	MICIN PH-PH 5P	MICIN束線	(WU64970)		
LC15	--	CONNECTOR ASSEMBLY	VIDEO PH-PH 12P	VIDEO束線	(WU64920)		
LC16	**VK098300**	CONNECTOR ASSEMBLY	KRD-KRD 8P L=100	KRD－KRD束線			05
LC17	**VK09850R**	CONNECTOR ASSEMBLY	KRD-KRD 9P L=100	KRD－KRD束線			05
LC18	--	USB CABLE	MINI_B-PH5P	USBケーブル	(WV77320)		
LC19	--	CONNECTOR ASSEMBLY	GND3 PH-LUG 3P/1P	GND3束線	(WV71830)		

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■ LCD UNIT

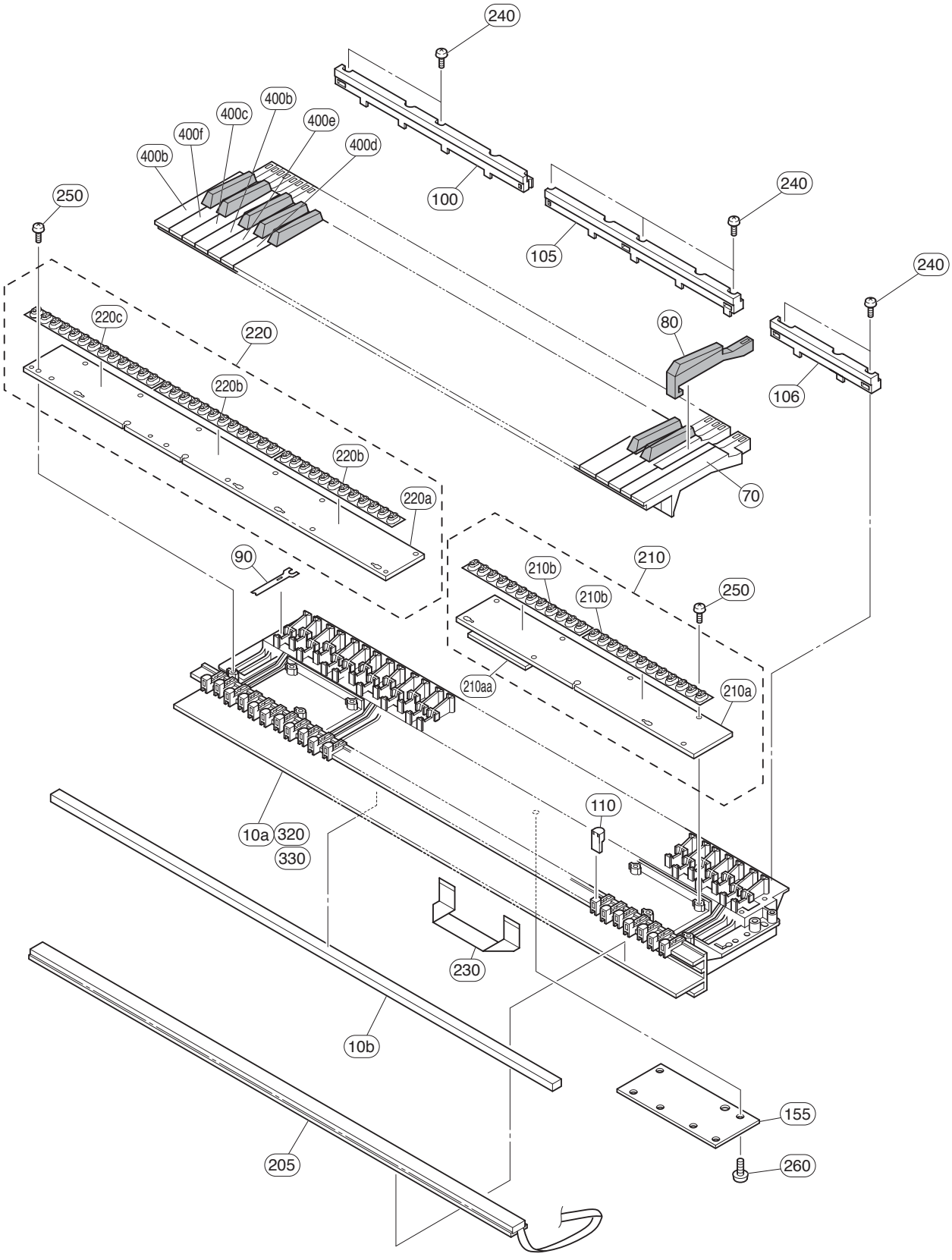

1
11
S03
LD5
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LD6
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S03
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S03
3
LD7
LD2
LD3
LD7
LD1
13
LD7
5
LD1a
13
S03
12
LD7
LD4
LS03
L5
LD6
L2
9
LCD lower case assembly
L1
LS03
L3
LS03
L4
L3
10
S04
S04

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
			LCD UNIT		ＬＣＤユニット	Tyros4		
*		**WU619400**	LCD UNIT		ＬＣＤユニット			
	1	**WN137000**	LCD UPPER CASE		ＬＣＤ上ケース塗装品			09
	2	**--**	DUSTPROOF FOAM		防塵フォーム	(WN21370)		
	3	**WN675600**	CRYSTAL DISPLAY	LTA075A363F	液晶ディスプレイ			42
*	4	**WT902200**	CIRCUIT BOARD	LCL	ＬＣＬシート			
*	5	**WT902300**	CIRCUIT BOARD	LCR	ＬＣＲシート			
	6	**--**	LCD HOOK HOLDER		ＬＣＤフックホルダー	(WF25560)		
	7	**V928820R**	RETURN SPRING		リターンスプリング			01
	8	**--**	WIRING ASSEMBLY	LD	ＬＤ束線構成	(WU64720)		
	9	**--**	LCD LOWER CASE ASSEMBLY		ＬＣＤ下ケースＡｓｓ’ｙ	(WV59920)		
	10	**V913540R**	GEAR		ギヤー成形品			01
	11	**CB829850**	CORD HOLDER	S-34B-E	束線止め			03
	12	**22764900**	ADHESIVE TAPE	12X50m	粘着テープ			08
	12	**VP83460R**	FILAMENT TAPE	12X50	粘着テープ		4	01
	13	**22764900**	ADHESIVE TAPE	12X50m	粘着テープ			08
	13	**V5912400**	ADHESIVE TAPE	12X90	粘着テープ		2	
	S03	**WE774301**	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Ｂタイト十ＢＩＮＤ		15	01
	S04	**WE972200**	BIND HEAD TAPPING SCREW-B	3.0X10 MFZN2B3	Ｂタイト十ＢＩＮＤ		12	01
		--	LCD LOWER CASE ASSEMBLY		ＬＣＤ下ケースＡｓｓ’ｙ	(WV59920)		
	L1	**WN137300**	LCD L CASE	LOWER	ＬＣＤ下ケース成形品			06
	L2	**--**	LCD SUPPORT STAY		ＬＣＤ補強金具	(WF30650)		
	L3	**--**	HINGE		蝶番金具	(WF30620)	2	
	L4	**V934810R**	RUBBER FOOT	T2.0	ゴム脚		2	01
	L5	**--**	INSULATION FILM L	RUMIRA-S10	絶縁フィルムＬ	(V942440)		
	LS03	**WE774301**	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Ｂタイト十ＢＩＮＤ		6	01
		--	WIRING ASSEMBLY	LD	ＬＤ束線構成	(WU64720)		
*	LD1	**WV609400**	CONNECTOR ASSEMBLY	FFC-LF 8P L=330	ＦＦＣ－ＬＦ束線			
	LD1a	**WH416800**	FERRITE CORE	FSRC222120RX000T	データラインフィルタ		2	02
*	LD2	**WT764300**	FFC CABLE	9P L=260	ＦＦＣケーブル			
	LD3	**WN834200**	FFC CABLE	32P L=50	ＦＦＣケーブル			03
	LD4	**--**	CONNECTOR ASSEMBLY	CK-LC-DM PH-PH-PH 3P/4P/2P	ＣＫ－ＬＣ－ＤＭ束線	(WU65370)		
*	LD5	**WV523400**	CONNECTOR ASSEMBLY	LVDS UL20276-SHLD20P	ＬＶＤＳ束線			
	LD6	**--**	CONNECTOR ASSEMBLY	GND2 LUG-LUG	ＧＮＤ２束線	(WV60910)		
	LD7	**WH416800**	FERRITE CORE	FSRC222120RX000T	データラインフィルタ		4	02

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KEYBOARD ASSEMBLY

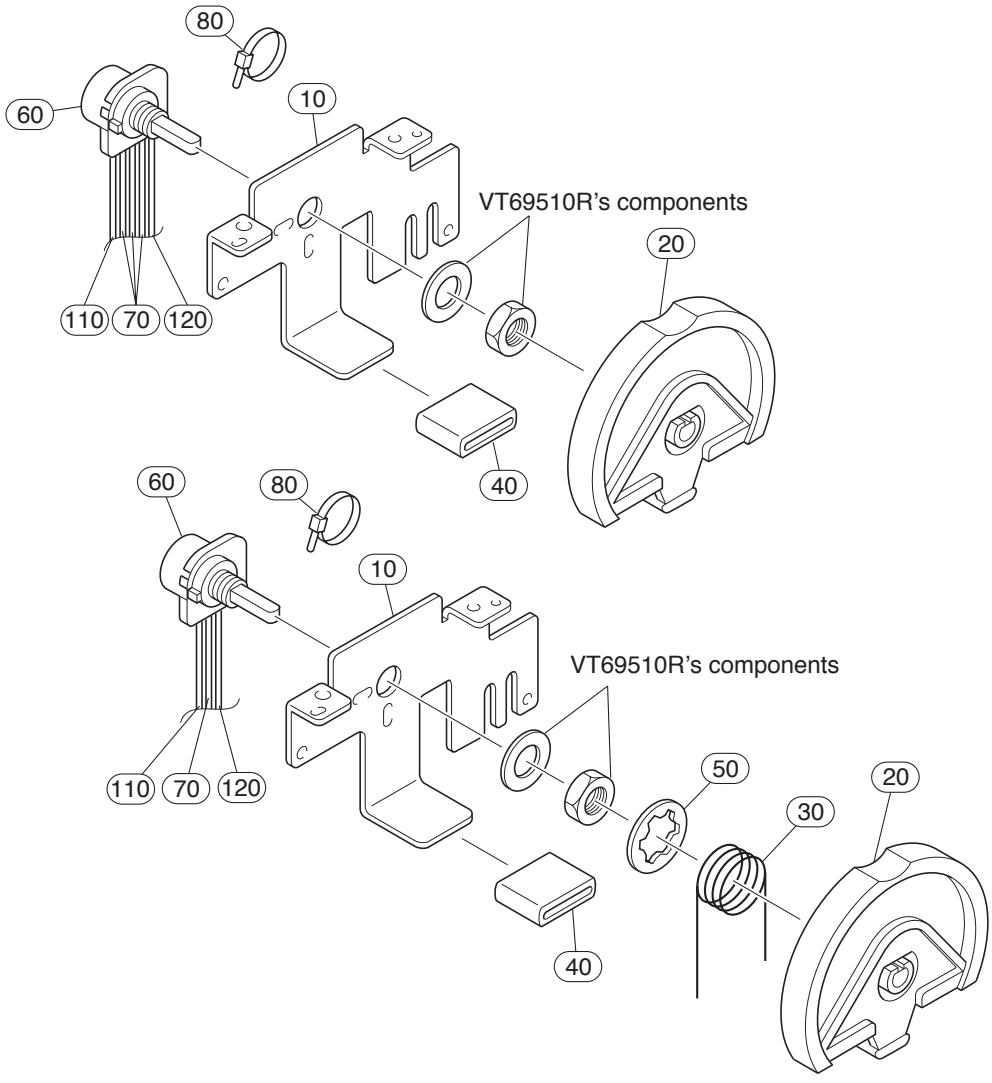


REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		KEYBOARD ASSEMBLY		ＦＳＸ鍵盤Ｄ	Tyros4		
	WD53490R	KEYBOARD ASSEMBLY	FSX D C61 K6	ＦＳＸ鍵盤Ｄ			
10	**--**	KEYBOARD FRAME	FSX61+STOPPER	ＭＫフレーム	(WD5349A)		
10a	**--**	KEYBOARD FRAME		ＭＫフレーム	(WD80950)		
10b	**WD80450R**	STOPPER U	C61 857X7.0X4.4	ストッパーＵ			04
70	**WB16730R**	WHITE KEY ASSEMBLY	C'	白鍵Ａｓｓ’ｙ Ｃ’	C6		03
80	**WB16740R**	BLACK KEY ASSEMBLY		黒鍵Ａｓｓ’ｙ		25	03
90	**WB16760R**	KEY SPRING	FSX	鍵バネ		61	01
100	**WC436600**	KEY STOPPER	L	キーストッパーＬ			03
105	**WC436700**	KEY STOPPER	H	キーストッパーＨ			03
106	**WD80420R**	KEY STOPPER	FSX-61	キーストッパー６１			02
110	**WB17110R**	KEY GUIDE CAP		キーガイドキャップ		61	01
155	**--**	FRAME FITTING ANGLE		フレーム固定金具	(WB18860)		
205	**WK369400**	PC SENSOR	YMHM-016-03	ＰＣセンサー			10
210	**--**	MKH-D ASSEMBLY		ＭＫＨ－Ｄ Ａｓｓ’ｙ	(WD80060)		
210a	**WD80100R**	CIRCUIT BOARD	MKH-D	ＭＫＨ－Ｄシート			15
210aa	**WE623100**	CIRCUIT BOARD	EMKS-FD (E-BUS)	ＥＭＫＳ－ＦＤシート		2	12
210b	**WB16880R**	RUBBER CONTACT	FSX OCT. 12KEYS 2M	接点ゴム １２Ｋｅｙ	C4#–C5,C5#–C6	2	04
220	**--**	MK61L ASSEMBLY	FSV-X	ＭＫ６１Ｌ Ａｓｓ’ｙ	(WD53540)		
220a	**WD80010R**	CIRCUIT BOARD	MK61L	シートＭＫ６１Ｌ			08
220b	**WB16880R**	RUBBER CONTACT	FSX OCT. 12KEYS 2M	接点ゴム １２Ｋｅｙ	C2#–C3,C3#–C4	2	04
220c	**WB16890R**	RUBBER CONTACT	FSX OCT. 13KEYS 2M	接点ゴム １３Ｋｅｙ	C1–C2		04
230	**WF12750R**	CABLE RELAY	23P	中継カード電線			02
230	**WS032700**	CABLE	SMCD 23P L=110	カード電線			04
240	**WE983200**	BIND HEAD TAPPING SCREW-P	3.0X16 MFZN2B3	Ｐタイト＋ＢＩＮＤ		7	01
250	**WF266600**	BIND HEAD TAPPING SCREW-P	3.0X8 MFZN2B3	Ｐタイト＋ＢＩＮＤ		22	01
260	**WE97440R**	BIND HEAD TAPPING SCREW-P	4.0X12 MFZN2W3	Ｐタイト＋ＢＩＮＤ		4	01
320	**WM230500**	GREASE	G-1030Y 50g	グリス	(WC77150)		
330	**--**	GREASE	HP-500	グリス	(WG23930)		
400	**WB1640A0**	WHITE KEY OCTAVE SET	C,F/B,E/A/G/D	白鍵ＯＣＴ．セット		5	
400b	**WB16680R**	WHITE KEY ASSEMBLY	C,F	白鍵Ａｓｓ’ｙ ＣＦ		10	03
400c	**WB16690R**	WHITE KEY ASSEMBLY	B,E	白鍵Ａｓｓ’ｙ ＢＥ		10	03
400d	**WB16700R**	WHITE KEY ASSEMBLY	A	白鍵Ａｓｓ’ｙ Ａ		5	03
400e	**WB16710R**	WHITE KEY ASSEMBLY	G	白鍵Ａｓｓ’ｙ Ｇ		5	03
400f	**WB16720R**	WHITE KEY ASSEMBLY	D	白鍵Ａｓｓ’ｙ Ｄ		5	03

✻: New Parts

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WHEEL ASSEMBLY



REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
		WHEEL ASSEMBLY		ホイールAss'y	Tyros4		
	--	WHEEL ASSEMBLY		ホイールAss'y	(WN84220)		
10	**WN842300**	WHEEL FRAME		ホイールフレーム		2	02
20	**V457990R**	WHEEL	EX	ホイールEX	PITCH BEND, MODULATION	2	04
30	**VC79280R**	SPRING		リターンSP			01
40	**CB81902R**	WHEEL TUBE		ホイールチューブ		2	04
50	**EW60011R**	STOPPER, CS-RING TYPE	12	CS形止め輪			01
60	**VT69510R**	ROTARY VARIABLE RESISTOR	SP. 10.0K RK163111	ロータリーVR	PITCH BEND, MODULATION	2	03
70	--	CONNECTOR ASSEMBLY	WHEEL PH 4P L=150,170	WHEEL束線	(WE84700)		
80	**CB06925R**	BINDING TIE	BK-1 (10pcs/pack)	インシュロックタイ		2	01
110	--	WIRE VINYL BLACK		ビニール線	(VK88170)		
120	--	WIRE VINYL RED		ビニール線	(VK88160)		

✻: New Parts

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■ ELECTRICAL PARTS

AJACK

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
			ELECTRICAL PARTS		電気部品	Tyros4		
*		**WT901300**	CIRCUIT BOARD	AJACK	AJACKシート	(WT90140)(YC340B0)		
*		**WT902000**	CIRCUIT BOARD	CK	CKシート	(WT90150)(YC341C0)		
*		**WT901600**	CIRCUIT BOARD	DJACK	DJACKシート	(WT90150)(YC341C0)		
*		**WT901700**	CIRCUIT BOARD	HP	HPシート	(WT90150)(YC341C0)		
*		**WT901800**	CIRCUIT BOARD	SPOL	SPOLシート	(WT90150)(YC341C0)		
*		**WT901900**	CIRCUIT BOARD	SPOR	SPORシート	(WT90150)(YC341C0)		
*		**WT759800**	CIRCUIT BOARD	DM	DMシート	(YC134D0)		
*		**WT903000**	CIRCUIT BOARD	EN	ENシート	(WT90280)(YC489A0)		
*		**WT902900**	CIRCUIT BOARD	PNC	PNCシート	(WT90280)(YC489A0)		
*		**WT902200**	CIRCUIT BOARD	LCL	LCLシート	(WT78420)(YC270B0)		
*		**WT902300**	CIRCUIT BOARD	LCR	LCRシート	(WT78420)(YC270B0)		
*		**WT902700**	CIRCUIT BOARD	MICVR	MICVRシート	(WT90240)(YC487C0)		
*		**WT902500**	CIRCUIT BOARD	PNL	PNLシート	(WT90240)(YC487C0)		
*		**WT902600**	CIRCUIT BOARD	PNLS	PNLSシート	(WT90240)(YC487C0)		
		WD80010R	CIRCUIT BOARD	MK61L	シートMK61L	(WD80020)(X6578C0)		08
		WD80100R	CIRCUIT BOARD	MKH-D	MKH－Dシート	(WD78570)(X6579B0)		15
		WE623100	CIRCUIT BOARD	EMKS-FD (E-BUS) on MKH-D	EMKS－FDシート	(WE62270)(X6577A0)		12
*		**WT903200**	CIRCUIT BOARD	PNR	PNRシート	(WT90310)(YC488C0)		
*		**WT903300**	CIRCUIT BOARD	USB	USBシート	(WT90310)(YC488C0)		
*		**WT901300**	CIRCUIT BOARD	AJACK	AJACKシート	(WT90140)(YC340B0)		
	60	**--**	JACK PLATE SUBWOOFER	2P	ジャック金具サブウーファー	(WU62210)		
	70	**--**	CONNECTOR PLATE	2P	ジャック金具	(WU62200)		
	80	**--**	AMR JACK PLATE		AMR JACK金具	(WE81090)		
	90	**--**	JUMPER CABLE	0.55 TIN	ジャンパー線	(VA07890)	108	
	C100	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01
	C101	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01
	C102	**UR839220**	ELECTROLYTIC CAPACITOR	2200 16.0V RX TP	ケミコン			01
	C103	**WA66850R**	ELECTROLYTIC CAPACITOR	100.00 16V	ケミコン			01
	C104	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
	C105	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
	C106	**US062220**	CERAMIC CAPACITOR-SL (CHIP)	220P 50V J RECT.	チップセラ（SL）			01
	C107	**US062220**	CERAMIC CAPACITOR-SL (CHIP)	220P 50V J RECT.	チップセラ（SL）			01
	C201	**UA35310R**	POLYESTER FILM CAPACITOR	1000P 50V J RX TP	マイラーコン			01
	C202	**UA35310R**	POLYESTER FILM CAPACITOR	1000P 50V J RX TP	マイラーコン			01
	C203	**UA352470**	POLYESTER FILM CAPACITOR	470P 50V J RX TP	マイラーコン			01
	C204	**UU267100**	ELECTROLYTIC CAPACITOR	10.00 50.0V RX TP	ケミコン FW			01
	C205	**UU267100**	ELECTROLYTIC CAPACITOR	10.00 50.0V RX TP	ケミコン FW			01
	C206	**UA35310R**	POLYESTER FILM CAPACITOR	1000P 50V J RX TP	マイラーコン			01
	-208	**UA35310R**	POLYESTER FILM CAPACITOR	1000P 50V J RX TP	マイラーコン			01
	C209	**VI25470R**	ELECTROLYTIC CAPACITOR	470.00 16.0V	ケミコン			01
	C210	**UA35310R**	POLYESTER FILM CAPACITOR	1000P 50V J RX TP	マイラーコン			01
	C211	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01
	C212	**US062100**	CERAMIC CAPACITOR-SL (CHIP)	100P 50V J RECT.	チップセラ（SL）			01
	-214	**US062100**	CERAMIC CAPACITOR-SL (CHIP)	100P 50V J RECT.	チップセラ（SL）			01
	C215	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01
	C222	**US061470**	CERAMIC CAPACITOR-CH (CHIP)	47P 50V J RECT.	チップセラ（CH）			01
	C223	**US062180**	CERAMIC CAPACITOR-SL (CHIP)	180P 50V J RECT.	チップセラ（SL）			01
	C224	**UM407100**	ELECTROLYTIC CAPACITOR	10.00 25.0V RX TP	ケミコン			01
	C225	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01
	C300	**US06127R**	CERAMIC CAPACITOR-CH (CHIP)	27P 50V J RECT.	チップセラ（CH）			01
	C301	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（B）			01
	C302	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
	C350	**US06127R**	CERAMIC CAPACITOR-CH (CHIP)	27P 50V J RECT.	チップセラ（CH）			01
	C351	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（B）			01
	C352	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
	C370	**VS49070R**	ELECTROLYTIC CAPACITOR	47.0 16.0V TP	ケミコン 5L			01
	C371	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01
	C372	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01
	C400	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
	C401	**US061470**	CERAMIC CAPACITOR-CH (CHIP)	47P 50V J RECT.	チップセラ（CH）			01
	C403	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
	C404	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（B）			01
	C450	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
	C451	**US061470**	CERAMIC CAPACITOR-CH (CHIP)	47P 50V J RECT.	チップセラ（CH）			01
	C453	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
	C454	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（B）			01
	C470	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01
	C471	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
C472	**VS49070R**	ELECTROLYTIC CAPACITOR	47.0 16.0V TP	ケミコン 5L			01
C473	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C474	**WA66850R**	ELECTROLYTIC CAPACITOR	100.00 16V	ケミコン			01
C475	**US06256R**	CERAMIC CAPACITOR-SL (CHIP)	560P 50V J RECT.	チップセラ(SL)			01
C476	**US06256R**	CERAMIC CAPACITOR-SL (CHIP)	560P 50V J RECT.	チップセラ(SL)			01
C500	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C501	**US062100**	CERAMIC CAPACITOR-SL (CHIP)	100P 50V J RECT.	チップセラ(SL)			01
C502	**US06212R**	CERAMIC CAPACITOR-SL (CHIP)	120P 50V J RECT.	チップセラ(SL)			01
C503	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ(B)			01
C505	**UN848100**	ELECTROLYTIC CAPACITOR-BP	100.00 25.0V RX TP	BPケミコン			01
C550	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C551	**US062100**	CERAMIC CAPACITOR-SL (CHIP)	100P 50V J RECT.	チップセラ(SL)			01
C552	**US06212R**	CERAMIC CAPACITOR-SL (CHIP)	120P 50V J RECT.	チップセラ(SL)			01
C553	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ(B)			01
C555	**UN848100**	ELECTROLYTIC CAPACITOR-BP	100.00 25.0V RX TP	BPケミコン			01
C570	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C571	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C600	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C601	**US06156R**	CERAMIC CAPACITOR-CH (CHIP)	56P 50V J RECT.	チップセラ(CH)			01
C603	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C604	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ(B)			01
C606	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C650	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C651	**US06156R**	CERAMIC CAPACITOR-CH (CHIP)	56P 50V J RECT.	チップセラ(CH)			01
C653	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C654	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ(B)			01
C656	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C670	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C671	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C700	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C701	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ(B)			01
C704	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C750	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C751	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ(B)			01
C754	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C800	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C801	**US062100**	CERAMIC CAPACITOR-SL (CHIP)	100P 50V J RECT.	チップセラ(SL)			01
C803	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C804	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ(B)			01
C806	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C850	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C851	**US062100**	CERAMIC CAPACITOR-SL (CHIP)	100P 50V J RECT.	チップセラ(SL)			01
C853	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C854	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ(B)			01
C856	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C870	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C871	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C900	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C901	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ(B)			01
C903	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
C950	**VB63970R**	ELECTROLYTIC CAPACITOR-BP	4.7 25.0V	BPケミコン 5L			01
C951	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ(B)			01
C953	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ(B)			01
CN100	**VB39070R**	CONNECTOR BASE POST	PH 11P TE	ベースポスト			01
CN101	**VB39060R**	CONNECTOR BASE POST	PH 10P TE	ベースポスト			01
CN102	**VB39040R**	CONNECTOR BASE POST	PH 8P TE	ベースポスト			01
CN200	**VB39010R**	CONNECTOR BASE POST	PH 5P TE	ベースポスト			01
CN201	**VB39000R**	CONNECTOR BASE POST	PH 4P TE	ベースポスト			01
CN400	**LB932020**	CONNECTOR BASE POST	VH 2P TE	ベースポスト			01
CN401	**LB93203R**	CONNECTOR BASE POST	VH 3P TE	ベースポスト			01
CN500	**VB390200**	CONNECTOR BASE POST	PH 6P TE	ベースポスト			01
D100	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
D101	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
D200	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
-203	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
D300	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
D350	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
D370	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
D470	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
-473	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01

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	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	D500	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
	EM100	**VI243100**	EMI FILTER	DSS6NB32A271Q93A	LCフィルター			01
	EM101	**VI243100**	EMI FILTER	DSS6NB32A271Q93A	LCフィルター			01
	EM200	**VI243100**	EMI FILTER	DSS6NB32A271Q93A	LCフィルター			01
	EM201	**VI243100**	EMI FILTER	DSS6NB32A271Q93A	LCフィルター			01
	EM500	**VG594300**	EMI FILTER	DSS6NB32A101Q93A	LCフィルターEMI			01
	EM550	**VG594300**	EMI FILTER	DSS6NB32A101Q93A	LCフィルターEMI			01
	FT300	**IE10262R**	FET	2SK246-Y(TPE2,F) Y	FET			01
	FT350	**IE10262R**	FET	2SK246-Y(TPE2,F) Y	FET			01
	IC200	**XM651A0R**	IC	NJM4580D-D	IC	OP AMP		02
	IC300	**X3505A00**	IC	NJM2068M-D(TE2)	IC	OP AMP		02
	IC400	**X3505A00**	IC	NJM2068M-D(TE2)	IC	OP AMP		02
	IC500	**XQ824A00**	IC	NJM4556AD	IC	OP AMP		02
	IC600	**X3505A00**	IC	NJM2068M-D(TE2)	IC	OP AMP		02
	IC800	**X3505A00**	IC	NJM2068M-D(TE2)	IC	OP AMP		02
	J200	**--**	JUMPER CABLE	0.55 TIN	ジャンパー線	(VA07890)		
*	JK200	**WT889700**	CANNON CONNECTOR	NCJ10FI-H-0	キャノンコネクタ	MIC INPUT		
*	JK200	**WU273900**	CANNON CONNECTOR	ACJC10HL	キャノンコネクタ			
	JK400	**VB312600**	PHONE JACK BLACK	YKB21-5012	ホーンコネクタ（黒）	TO SUB WOOFER L		02
	JK401	**VV881001**	DIN JACK	CMS5008-0101F	丸形ミニチャーコネクタ	TO SUB WOOFER R		03
	JK600	**VC68750R**	PHONE JACK BLACK	YKB21-5014	ホーンコネクタ（黒）	LINE OUT MAIN L/L+R		01
	JK650	**VB312600**	PHONE JACK BLACK	YKB21-5012	ホーンコネクタ（黒）	LINE OUT MAIN R		02
	JK700	**LB101870**	PHONE JACK	YKB21-5006	ホーンコネクタ	LINE OUT SUB 1		03
	JK750	**LB101870**	PHONE JACK	YKB21-5006	ホーンコネクタ	LINE OUT SUB 2		03
	JK800	**LB101870**	PHONE JACK	YKB21-5006	ホーンコネクタ	AUX OUT/LOOP SEND L/L+R		03
	JK850	**VB312600**	PHONE JACK BLACK	YKB21-5012	ホーンコネクタ（黒）	AUX OUT/LOOP SEND R		02
	JK900	**VB312600**	PHONE JACK BLACK	YKB21-5012	ホーンコネクタ（黒）	AUX IN/LOOP RETURN L/L+R		02
	JK950	**LB101870**	PHONE JACK	YKB21-5006	ホーンコネクタ	AUX IN/LOOP RETURN R		03
	L100	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01
	-112	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01
	L113	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L114	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01
	L115	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L116	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01
	L117	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01
	L118	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L119	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01
	L200	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L201	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L202	**VB835000**	COIL	20uH FL05RD200AT	コイル 20U			01
	L203	**VB835000**	COIL	20uH FL05RD200AT	コイル 20U			01
	L204	**--**	JUMPER CABLE	0.55 TIN	ジャンパー線	(VA07890)		
	L205	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L208	**VB835000**	COIL	20uH FL05RD200AT	コイル 20U			01
	L209	**VB835000**	COIL	20uH FL05RD200AT	コイル 20U			01
	L400	**VB835000**	COIL	20uH FL05RD200AT	コイル 20U			01
	L450	**VB835000**	COIL	20uH FL05RD200AT	コイル 20U			01
	L472	**VB835000**	COIL	20uH FL05RD200AT	コイル 20U			01
	L500	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L550	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L571	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01
	L572	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L700	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L750	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L800	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	R100	**RD35747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R101	**RD35747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R102	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
	R104	**RD150000**	CARBON RESISTOR (CHIP)	0.0 1/4 J TP	チップ抵抗			01
	R105	**RD150000**	CARBON RESISTOR (CHIP)	0.0 1/4 J TP	チップ抵抗			01
	R106	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
	R107	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
	R200	**RF454100**	CARBON RESISTOR (CHIP)	10.0 D RECT.	チップ抵抗			01
	R201	**RF454100**	CARBON RESISTOR (CHIP)	10.0 D RECT.	チップ抵抗			01
	R202	**RF457470**	CARBON RESISTOR (CHIP)	47.0K D RECT.	チップ抵抗			
	R203	**RF457470**	CARBON RESISTOR (CHIP)	47.0K D RECT.	チップ抵抗			
	R204	**RD356390**	CARBON RESISTOR (CHIP)	3.9K 63M J RECT.	チップ抵抗			01
	R205	**RF454180**	CARBON RESISTOR (CHIP)	18.0 D RECT.	チップ抵抗			01
	R206	**RF454180**	CARBON RESISTOR (CHIP)	18.0 D RECT.	チップ抵抗			01
	R207	**RF457470**	CARBON RESISTOR (CHIP)	47.0K D RECT.	チップ抵抗			

*: New Parts

RANK: Japan only

AJACK

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
R208	**RF457470**	CARBON RESISTOR (CHIP)	47.0K D RECT.	チップ抵抗			
R209	**RF454180**	CARBON RESISTOR (CHIP)	18.0 D RECT.	チップ抵抗			01
R210	**RF456220**	CARBON RESISTOR (CHIP)	2.2K D RECT.	チップ抵抗			
R211	**RF456390**	CARBON RESISTOR (CHIP)	3.9K D RECT.	チップ抵抗			01
R213	**RF357100**	CARBON RESISTOR (CHIP)	10.0K D 1608	チップ抵抗			01
R214	**RF357100**	CARBON RESISTOR (CHIP)	10.0K D 1608	チップ抵抗			01
R215	**RF456220**	CARBON RESISTOR (CHIP)	2.2K D RECT.	チップ抵抗			
R216	**RF456390**	CARBON RESISTOR (CHIP)	3.9K D RECT.	チップ抵抗			01
R217	**RF454180**	CARBON RESISTOR (CHIP)	18.0 D RECT.	チップ抵抗			01
R218	**RF457180**	CARBON RESISTOR (CHIP)	18.0K D RECT.	チップ抵抗			
R219	**RF457180**	CARBON RESISTOR (CHIP)	18.0K D RECT.	チップ抵抗			
R220	**RD355100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
R224	**RF457680**	CARBON RESISTOR (CHIP)	68.0K D RECT.	チップ抵抗			01
R225	**RF457180**	CARBON RESISTOR (CHIP)	18.0K D RECT.	チップ抵抗			
R227	**RD355100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
R228	**RD150000**	CARBON RESISTOR (CHIP)	0.0 1/4 J TP	チップ抵抗			01
R231	**RF45427R**	CARBON RESISTOR (CHIP)	27.0 D RECT.	チップ抵抗			01
R232	**RD150000**	CARBON RESISTOR (CHIP)	0.0 1/4 J TP	チップ抵抗			01
R300	**RD357330**	CARBON RESISTOR (CHIP)	33.0K 63M J RECT.	チップ抵抗			01
R301	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R302	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R303	**RD358560**	CARBON RESISTOR (CHIP)	560.0K 63M J RECT.	チップ抵抗			01
R304	**RD357820**	CARBON RESISTOR (CHIP)	82.0K 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	**RD357820**	CARBON RESISTOR (CHIP)	82.0K 63M J RECT.	チップ抵抗			01
R307	**RD355100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
R350	**RD357330**	CARBON RESISTOR (CHIP)	33.0K 63M J RECT.	チップ抵抗			01
R351	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R352	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R353	**RD358560**	CARBON RESISTOR (CHIP)	560.0K 63M J RECT.	チップ抵抗			01
R354	**RD357820**	CARBON RESISTOR (CHIP)	82.0K 63M J RECT.	チップ抵抗			01
R355	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R356	**RD357820**	CARBON RESISTOR (CHIP)	82.0K 63M J RECT.	チップ抵抗			01
R357	**RD355100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
R370	**RD358560**	CARBON RESISTOR (CHIP)	560.0K 63M J RECT.	チップ抵抗			01
R371	**RD357270**	CARBON RESISTOR (CHIP)	27.0K 63M J RECT.	チップ抵抗			01
R372	**RD35747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
R373	**RD356470**	CARBON RESISTOR (CHIP)	4.7K 63M J RECT.	チップ抵抗			01
R400	**RD357150**	CARBON RESISTOR (CHIP)	15.0K 63M J RECT.	チップ抵抗			01
R401	**RD357270**	CARBON RESISTOR (CHIP)	27.0K 63M J RECT.	チップ抵抗			01
R402	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R403	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R404	**RD15522R**	CARBON RESISTOR (CHIP)	220.0 1/4 J TP	チップ抵抗			
R405	**RD356220**	CARBON RESISTOR (CHIP)	2.2K 63M J RECT.	チップ抵抗			01
R406	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R407	**RD15510R**	CARBON RESISTOR (CHIP)	100.0 1/4 J TP	チップ抵抗			01
R450	**RD357150**	CARBON RESISTOR (CHIP)	15.0K 63M J RECT.	チップ抵抗			01
R451	**RD357270**	CARBON RESISTOR (CHIP)	27.0K 63M J RECT.	チップ抵抗			01
R452	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R453	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R454	**RD15522R**	CARBON RESISTOR (CHIP)	220.0 1/4 J TP	チップ抵抗			
R455	**RD356220**	CARBON RESISTOR (CHIP)	2.2K 63M J RECT.	チップ抵抗			01
R456	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R457	**RD15510R**	CARBON RESISTOR (CHIP)	100.0 1/4 J TP	チップ抵抗			01
R470	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R471	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R472	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R473	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R474	**RD356470**	CARBON RESISTOR (CHIP)	4.7K 63M J RECT.	チップ抵抗			01
R475	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R476	**RD355150**	CARBON RESISTOR (CHIP)	150.0 63M J RECT.	チップ抵抗			01
R477	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R478	**RD357120**	CARBON RESISTOR (CHIP)	12.0K 63M J RECT.	チップ抵抗			01
R479	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R480	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R481	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R482	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R500	**RF357100**	CARBON RESISTOR (CHIP)	10.0K D 1608	チップ抵抗			01
R501	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R502	**RF35718R**	CARBON RESISTOR (CHIP)	18.0K D 1608	チップ抵抗			01

✻: New Parts

RANK: Japan only

AJACK and CK/DJACK/HP/SPOL/SPOR

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
R503	**RD15433R**	CARBON RESISTOR (CHIP)	33.0 1/4 J TP	チップ抵抗			01
R505	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R506	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R550	**RF357100**	CARBON RESISTOR (CHIP)	10.0K D 1608	チップ抵抗			01
R551	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R552	**RF35718R**	CARBON RESISTOR (CHIP)	18.0K D 1608	チップ抵抗			01
R553	**RD15433R**	CARBON RESISTOR (CHIP)	33.0 1/4 J TP	チップ抵抗			01
R555	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R556	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R600	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R601	**RD35718R**	CARBON RESISTOR (CHIP)	18.0K 63M J RECT.	チップ抵抗			01
R602	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R603	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R604	**RD155680**	CARBON RESISTOR (CHIP)	680.0 1/4 J TP	チップ抵抗			01
R605	**RD355330**	CARBON RESISTOR (CHIP)	330.0 63M J RECT.	チップ抵抗			01
R606	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R650	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R651	**RD35718R**	CARBON RESISTOR (CHIP)	18.0K 63M J RECT.	チップ抵抗			01
R652	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R653	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R654	**RD155680**	CARBON RESISTOR (CHIP)	680.0 1/4 J TP	チップ抵抗			01
R655	**RD355330**	CARBON RESISTOR (CHIP)	330.0 63M J RECT.	チップ抵抗			01
R656	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R700	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R701	**RD155680**	CARBON RESISTOR (CHIP)	680.0 1/4 J TP	チップ抵抗			01
R702	**RD355330**	CARBON RESISTOR (CHIP)	330.0 63M J RECT.	チップ抵抗			01
R703	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R750	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R751	**RD155680**	CARBON RESISTOR (CHIP)	680.0 1/4 J TP	チップ抵抗			01
R752	**RD355330**	CARBON RESISTOR (CHIP)	330.0 63M J RECT.	チップ抵抗			01
R753	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R800	**RD35747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
R801	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R803	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R804	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R805	**RD155680**	CARBON RESISTOR (CHIP)	680.0 1/4 J TP	チップ抵抗			01
R806	**RD355330**	CARBON RESISTOR (CHIP)	330.0 63M J RECT.	チップ抵抗			01
R807	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R850	**RD35747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
R851	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R853	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R854	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R855	**RD155680**	CARBON RESISTOR (CHIP)	680.0 1/4 J TP	チップ抵抗			01
R856	**RD355330**	CARBON RESISTOR (CHIP)	330.0 63M J RECT.	チップ抵抗			01
R857	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
RY500	**V824560R**	RELAY	DC ATX203	リレー			04
TR200	**V742170R**	TRANSISTOR (CHIP)	2SC3324-GR,BL	チップトランジスタ			01
TR201	**VV556400**	TRANSISTOR	2SC2412K Q,R,S TP	トランジスタ 2SC			01
TR202	**V742170R**	TRANSISTOR (CHIP)	2SC3324-GR,BL	チップトランジスタ			01
TR203	**VV556400**	TRANSISTOR	2SC2412K Q,R,S TP	トランジスタ 2SC			01
TR370	**VV556400**	TRANSISTOR	2SC2412K Q,R,S TP	トランジスタ 2SC			01
TR371	**VV556400**	TRANSISTOR	2SC2412K Q,R,S TP	トランジスタ 2SC			01
TR400	**WC883401**	TRANSISTOR	2SD2704 K TP	トランジスタ 2SD			01
TR450	**WC883401**	TRANSISTOR	2SD2704 K TP	トランジスタ 2SD			01
TR470	**VV556400**	TRANSISTOR	2SC2412K Q,R,S TP	トランジスタ 2SC			01
TR471	**VV556400**	TRANSISTOR	2SC2412K Q,R,S TP	トランジスタ 2SC			01
TR472	**VJ92720R**	TRANSISTOR	2SA1162-Y(TE85R,F)	トランジスタ 2SA			01
TR473	**VV556400**	TRANSISTOR	2SC2412K Q,R,S TP	トランジスタ 2SC			01
TR600	**WC883401**	TRANSISTOR	2SD2704 K TP	トランジスタ 2SD			01
TR650	**WC883401**	TRANSISTOR	2SD2704 K TP	トランジスタ 2SD			01
TR700	**WC883401**	TRANSISTOR	2SD2704 K TP	トランジスタ 2SD			01
TR750	**WC883401**	TRANSISTOR	2SD2704 K TP	トランジスタ 2SD			01
TR800	**WC883401**	TRANSISTOR	2SD2704 K TP	トランジスタ 2SD			01
TR850	**WC883401**	TRANSISTOR	2SD2704 K TP	トランジスタ 2SD			01
VR900	**VV04920R**	ROTARY VARIABLE RESISTOR	B 10Kx2 RK09K12A	二連ロータリーVR	AUX IN/LOOP RETURN TRIM		03
W101	**--**	CONNECTOR ASSEMBLY	GND LUG-PIN	GND 束線	(WV33320)		
ZD370	**VG440200**	ZENER DIODE	MTZ J 12B 12.0V TP	ツェナーダイオード			01
ZD370	**VQ555500**	ZENER DIODE	MTZ J 12B 12.0V TE	ツェナーダイオード			01
*	**WT902000**	CIRCUIT BOARD	CK	CK シート	(WT90150)(YC341C0)		

✻: New Parts

RANK: Japan only

CK/DJACK/HP/SPOL/SPOR

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
*		**WT901600**	CIRCUIT BOARD	DJACK	ＤＪＡＣＫシート	(WT90150)(YC341C0)		
*		**WT901700**	CIRCUIT BOARD	HP	ＨＰシート	(WT90150)(YC341C0)		
*		**WT901800**	CIRCUIT BOARD	SPOL	ＳＰＯＬシート	(WT90150)(YC341C0)		
*		**WT901900**	CIRCUIT BOARD	SPOR	ＳＰＯＲシート	(WT90150)(YC341C0)		
	60	**--**	SP JACK PLATE		ＳＰ ＪＡＣＫ金具	(WE81080)	2	
	70	**--**	DMR JACK PLATE		ＤＭＲ ＪＡＣＫ金具	(WE81110)		
	80	**--**	JACK PLATE PIN	1P	ＪＡＣＫ金具 ピン	(WU62220)		
	90	**WE774301**	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	Ｂタイト十ＢＩＮＤ			01
	100	**--**	JUMPER CABLE	0.55 TIN	ジャンパー線	(VA07890)	13	
	C13	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（Ｂ）			01
	C14	**US062220**	CERAMIC CAPACITOR-SL (CHIP)	220P 50V J RECT.	チップセラ（ＳＬ）			01
	C23	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（Ｂ）			01
	C24	**US062220**	CERAMIC CAPACITOR-SL (CHIP)	220P 50V J RECT.	チップセラ（ＳＬ）			01
	C33	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（Ｂ）			01
	C34	**US062220**	CERAMIC CAPACITOR-SL (CHIP)	220P 50V J RECT.	チップセラ（ＳＬ）			01
	C40	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（Ｂ）			01
	C43	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（Ｂ）			01
	C50	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（Ｂ）			01
	C53	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（Ｂ）			01
	C61	**UN838220**	ELECTROLYTIC CAPACITOR-BP	220.00 16.0V RX TP	ＢＰケミコン			01
	C67	**US063100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
	C90	**UR838470**	ELECTROLYTIC CAPACITOR	470.00 16.0V RX TP	ケミコン			01
	C91	**UR838100**	ELECTROLYTIC CAPACITOR	100.00 16.0V RX TP	ケミコン			01
	C94	**UR838100**	ELECTROLYTIC CAPACITOR	100.00 16.0V RX TP	ケミコン			01
	C95	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
	-99	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
	C104	**US062220**	CERAMIC CAPACITOR-SL (CHIP)	220P 50V J RECT.	チップセラ（ＳＬ）			01
	C105	**US062220**	CERAMIC CAPACITOR-SL (CHIP)	220P 50V J RECT.	チップセラ（ＳＬ）			01
	C900	**WF547900**	CERAMIC CAPACITOR (CHIP)	10.000 25V K	チップセラ			01
	C901	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
	-904	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
	CN10	**VB39040R**	CONNECTOR BASE POST	PH 8P TE	ベースポスト			01
	CN40	**VB39050R**	CONNECTOR BASE POST	PH 9P TE	ベースポスト			03
	CN60	**VB39080R**	CONNECTOR BASE POST	PH 12P TE	ベースポスト			01
	CN61	**V6706500**	D-SUB CONNECTOR	KH 15P SE	Ｄ－Ｓｕｂ コネクタ	RGB OUT		05
	CN70	**LB933020**	CONNECTOR BASE POST	VH 2P SE	ベースポスト			01
	CN80	**LB93303R**	CONNECTOR BASE POST	VH 3P SE	ベースポスト			01
	CN90	**LB93204R**	CONNECTOR BASE POST	VH 4P TE	ベースポスト			01
	CN91	**LB932020**	CONNECTOR BASE POST	VH 2P TE	ベースポスト			01
	CN92	**VL844800**	CONNECTOR BASE POST	XH 4P TE	ベースツキポスト			01
	CN93	**VB38980R**	CONNECTOR BASE POST	PH 2P TE	ベースポスト			01
	CN94	**LB918020**	CONNECTOR BASE POST	XH 2P TE	ベースツキポスト			01
	CN95	**LB93203R**	CONNECTOR BASE POST	VH 3P TE	ベースポスト			01
	CN96	**VL844700**	CONNECTOR BASE POST	XH 3P TE	ベースツキポスト			01
	CN100	**VB858500**	CONNECTOR BASE POST	PH 6P SE	ベースポスト			01
	D4	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
	D5	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
	D10	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
	-18	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
	EM11	**VI243100**	EMI FILTER	DSS6NB32A271Q93A	ＬＣフィルター			01
	EM12	**VI243100**	EMI FILTER	DSS6NB32A271Q93A	ＬＣフィルター			01
⚠	FZ90	**WR761300**	CHIP FUSE	FAST-ACTING 1.25A	チップヒューズ			01
⚠	FZ91	**WU942800**	CHIP FUSE	FAST-ACTING 0.50A	チップヒューズ			01
⚠	FZ92	**WU942800**	CHIP FUSE	FAST-ACTING 0.50A	チップヒューズ			01
	IC40	**VD47320R**	PHOTO COUPLER	6N137-000E	フォトカプラ			05
	IC50	**VD47320R**	PHOTO COUPLER	6N137-000E	フォトカプラ			05
	J90	**--**	JUMPER CABLE	0.55 TIN	ジャンパー線	(VA07890)		
	JK10	**VM57600R**	PHONE JACK BLACK	YKB21-5074	ホーンコネクタ（黒）	ASSIGNABLE FOOT PEDAL 1		02
	JK20	**VM57600R**	PHONE JACK BLACK	YKB21-5074	ホーンコネクタ（黒）	ASSIGNABLE FOOT PEDAL 2		02
	JK30	**VM57600R**	PHONE JACK BLACK	YKB21-5074	ホーンコネクタ（黒）	ASSIGNABLE FOOT PEDAL 3		02
	JK40	**VJ88550R**	DIN JACK	5P YKF51-5054V	ＤＩＮコネクタ	MIDI B IN/OUT		04
	JK50	**VJ88550R**	DIN JACK	5P YKF51-5054V	ＤＩＮコネクタ	MIDI A IN/OUT		04
	JK60	**VI311100**	PIN JACK	1P YKC21-3017V	ピンジャック １Ｐ	VIDEO OUT		01
	JK70	**VB312600**	PHONE JACK BLACK	YKB21-5012	ホーンコネクタ（黒）	TO LEFT SPEAKER		02
	JK80	**VB312600**	PHONE JACK BLACK	YKB21-5012	ホーンコネクタ（黒）	TO RIGHT SPEAKER		02
	JK100	**LB101870**	PHONE JACK	YKB21-5006	ホーンコネクタ	PHONES		03
	L11	**VB835000**	COIL	20uH FL05RD200AT	コイル ２０Ｕ			01
	L12	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L13	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01
	-20	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01

*: New Parts

RANK: Japan only

CK/DJACK/HP/SPOL/SPOR and DM

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	L21	**VB835000**	COIL	20uH FL05RD200AT	コイル 20U			01
	L23	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01
	-25	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01
	L26	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L31	**VB835000**	COIL	20uH FL05RD200AT	コイル 20U			01
	L40	**VB835000**	COIL	20uH FL05RD200AT	コイル 20U			01
	L50	**VB835000**	COIL	20uH FL05RD200AT	コイル 20U			01
	L101	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	-105	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	R11	**HF75510R**	CARBON RESISTOR	100.0 1/4 J AX TP	カーボン抵抗			01
	R12	**HF75510R**	CARBON RESISTOR	100.0 1/4 J AX TP	カーボン抵抗			01
	R13	**HF75610R**	CARBON RESISTOR	1.0K 1/4 J AX TP	カーボン抵抗			01
	R14	**HF75710R**	CARBON RESISTOR	10.0K 1/4 J AX TP	カーボン抵抗			01
	R21	**HF75510R**	CARBON RESISTOR	100.0 1/4 J AX TP	カーボン抵抗			01
	R22	**HF75510R**	CARBON RESISTOR	100.0 1/4 J AX TP	カーボン抵抗			01
	R23	**HF75610R**	CARBON RESISTOR	1.0K 1/4 J AX TP	カーボン抵抗			01
	R24	**HF75710R**	CARBON RESISTOR	10.0K 1/4 J AX TP	カーボン抵抗			01
	R31	**HF75510R**	CARBON RESISTOR	100.0 1/4 J AX TP	カーボン抵抗			01
	R32	**HF75510R**	CARBON RESISTOR	100.0 1/4 J AX TP	カーボン抵抗			01
	R33	**HF75610R**	CARBON RESISTOR	1.0K 1/4 J AX TP	カーボン抵抗			01
	R34	**HF75710R**	CARBON RESISTOR	10.0K 1/4 J AX TP	カーボン抵抗			01
	R41	**HF75522R**	CARBON RESISTOR	220.0 1/4 J AX TP	カーボン抵抗			01
	-43	**HF75522R**	CARBON RESISTOR	220.0 1/4 J AX TP	カーボン抵抗			01
	R44	**HF75615R**	CARBON RESISTOR	1.5K 1/4 J AX TP	カーボン抵抗			01
	R45	**HF75722R**	CARBON RESISTOR	22.0K 1/4 J AX TP	カーボン抵抗			01
	R46	**HF75722R**	CARBON RESISTOR	22.0K 1/4 J AX TP	カーボン抵抗			01
	R47	**HF75610R**	CARBON RESISTOR	1.0K 1/4 J AX TP	カーボン抵抗			01
	R51	**HF75522R**	CARBON RESISTOR	220.0 1/4 J AX TP	カーボン抵抗			01
	-53	**HF75522R**	CARBON RESISTOR	220.0 1/4 J AX TP	カーボン抵抗			01
	R54	**HF75615R**	CARBON RESISTOR	1.5K 1/4 J AX TP	カーボン抵抗			01
	R55	**HF75722R**	CARBON RESISTOR	22.0K 1/4 J AX TP	カーボン抵抗			01
	R56	**HF75722R**	CARBON RESISTOR	22.0K 1/4 J AX TP	カーボン抵抗			01
	R57	**HF75610R**	CARBON RESISTOR	1.0K 1/4 J AX TP	カーボン抵抗			01
*	R90	**WV877100**	METAL OXIDE FILM RESISTOR	22.0 3W J GT	酸化金属被膜抵抗			
*	-92	**WV877100**	METAL OXIDE FILM RESISTOR	22.0 3W J GT	酸化金属被膜抵抗			
	R101	**HV754680**	FLAME PROOF CARBON RESISTOR	68.0 1/4 J RX TP	不燃化カーボン抵抗			01
	R102	**HV754680**	FLAME PROOF CARBON RESISTOR	68.0 1/4 J RX TP	不燃化カーボン抵抗			01
	TR41	**IC174020**	TRANSISTOR	2SC1740S R,S TP	トランジスタ 2SC			01
	TR42	**IC174020**	TRANSISTOR	2SC1740S R,S TP	トランジスタ 2SC			01
	TR51	**IC174020**	TRANSISTOR	2SC1740S R,S TP	トランジスタ 2SC			01
	TR52	**IC174020**	TRANSISTOR	2SC1740S R,S TP	トランジスタ 2SC			01
*		**WT759800**	CIRCUIT BOARD	DM	DM シート	(YC134D0)		
	30	**--**	MAC ADDRESS LABEL	PA COMMON ALL	MACアドレスラベル	(WH26440)		
	C1	**UF12847R**	ELECTROLYTIC CAPACITOR (CHIP)	470 10V	チップケミコン			02
	C2	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	-4	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C5	**UF12847R**	ELECTROLYTIC CAPACITOR (CHIP)	470 10V	チップケミコン			02
	C6	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
	C7	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C8	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
	C9	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C10	**US634100**	CERAMIC CAPACITOR-B (CHIP)	0.010 16V K RECT.	チップセラ（B）			01
	C11	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	-13	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C15	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（B）			01
	C16	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	-24	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C25	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
	C26	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C27	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C28	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
	C29	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C31	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	-34	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C35	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
	C36	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	-40	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C41	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
	C42	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01

*: New Parts

RANK: Japan only

DM

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
-45	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C46	**US634220**	CERAMIC CAPACITOR-B (CHIP)	0.022 16V K RECT.	チップセラ（B）			01
C47	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C48	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C50	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C51	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C53	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C55	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（B）			01
-59	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（B）			01
C60	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C61	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（B）			01
-64	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（B）			01
C65	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C66	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（B）			01
C67	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（B）			01
C68	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C69	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C70	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C200	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C201	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-205	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C208	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C209	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C210	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C211	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-217	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C218	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C219	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-225	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C226	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C227	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-233	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C234	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C235	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-248	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C249	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C250	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-263	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C300	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C301	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C302	**UF03810R**	ELECTROLYTIC CAPACITOR (CHIP)	100 16V	チップケミコン			01
C308	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C309	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C310	**US634100**	CERAMIC CAPACITOR-B (CHIP)	0.010 16V K RECT.	チップセラ（B）			01
C313	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C314	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C315	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C316	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C317	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C318	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-320	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C321	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
-324	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C325	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-329	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C400	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-403	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C404	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C405	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-407	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C408	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C409	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C410	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C411	**US661120**	CERAMIC CAPACITOR-CH (CHIP)	12P 50V J RECT.	チップセラ（CH）			
C412	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C413	**US661150**	CERAMIC CAPACITOR-CH (CHIP)	15P 50V J RECT.	チップセラ（CH）			
C414	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-416	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C417	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C418	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01

✻: New Parts

RANK: Japan only

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REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
C419	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C420	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C501	**US661100**	CERAMIC CAPACITOR-CH (CHIP)	10P 50V D RECT.	チップセラ（ＣＨ）			01
C502	**US661100**	CERAMIC CAPACITOR-CH (CHIP)	10P 50V D RECT.	チップセラ（ＣＨ）			01
C504	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C505	**V945030R**	ELECTROLYTIC CAPACITOR (CHIP)	10.00 10.0V REFLOW	チップ ＯＳケミコン			02
C506	**V945030R**	ELECTROLYTIC CAPACITOR (CHIP)	10.00 10.0V REFLOW	チップ ＯＳケミコン			02
C507	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
-513	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C514	**US634100**	CERAMIC CAPACITOR-B (CHIP)	0.010 16V K RECT.	チップセラ（Ｂ）			01
C515	**US634100**	CERAMIC CAPACITOR-B (CHIP)	0.010 16V K RECT.	チップセラ（Ｂ）			01
C516	**US135220**	CERAMIC CAPACITOR-F (CHIP)	0.2200 16V Z RECT.	チップセラ（Ｆ）			01
C517	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C518	**US634100**	CERAMIC CAPACITOR-B (CHIP)	0.010 16V K RECT.	チップセラ（Ｂ）			01
C519	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
-521	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C522	**US634100**	CERAMIC CAPACITOR-B (CHIP)	0.010 16V K RECT.	チップセラ（Ｂ）			01
C523	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C524	**US634100**	CERAMIC CAPACITOR-B (CHIP)	0.010 16V K RECT.	チップセラ（Ｂ）			01
C525	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C526	**US634100**	CERAMIC CAPACITOR-B (CHIP)	0.010 16V K RECT.	チップセラ（Ｂ）			01
C527	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C528	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C529	**US634100**	CERAMIC CAPACITOR-B (CHIP)	0.010 16V K RECT.	チップセラ（Ｂ）			01
C530	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C531	**US634100**	CERAMIC CAPACITOR-B (CHIP)	0.010 16V K RECT.	チップセラ（Ｂ）			01
C532	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C533	**US634100**	CERAMIC CAPACITOR-B (CHIP)	0.010 16V K RECT.	チップセラ（Ｂ）			01
C534	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C535	**US634100**	CERAMIC CAPACITOR-B (CHIP)	0.010 16V K RECT.	チップセラ（Ｂ）			01
C536	**V945030R**	ELECTROLYTIC CAPACITOR (CHIP)	10.00 10.0V REFLOW	チップ ＯＳケミコン			02
C537	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C538	**WM919900**	ELECTROLYTIC CAPACITOR (CHIP)	470.00 25.0V CHITS	チップケミコン ＣＤ			01
C539	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
C540	**US634220**	CERAMIC CAPACITOR-B (CHIP)	0.022 16V K RECT.	チップセラ（Ｂ）			01
C541	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C542	**WM919900**	ELECTROLYTIC CAPACITOR (CHIP)	470.00 25.0V CHITS	チップケミコン ＣＤ			01
C543	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C544	**US126100**	CERAMIC CAPACITOR-F (CHIP)	1.0000 10V Z RECT.	チップセラ Ｆ			01
C545	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C546	**UF03810R**	ELECTROLYTIC CAPACITOR (CHIP)	100 16V	チップケミコン			01
C547	**UF03810R**	ELECTROLYTIC CAPACITOR (CHIP)	100 16V	チップケミコン			01
C549	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C550	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C562	**UF03810R**	ELECTROLYTIC CAPACITOR (CHIP)	100 16V	チップケミコン			01
C563	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C564	**US662820**	CERAMIC CAPACITOR-B (CHIP)	820P 50V K RECT.	チップセラ（Ｂ）			
C600	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C601	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C602	**US661180**	CERAMIC CAPACITOR-CH (CHIP)	18P 50V J RECT.	チップセラ（ＣＨ）			
C603	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C604	**US661150**	CERAMIC CAPACITOR-CH (CHIP)	15P 50V J RECT.	チップセラ（ＣＨ）			
C605	**US661180**	CERAMIC CAPACITOR-CH (CHIP)	18P 50V J RECT.	チップセラ（ＣＨ）			
C606	**US661180**	CERAMIC CAPACITOR-CH (CHIP)	18P 50V J RECT.	チップセラ（ＣＨ）			
C607	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C608	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
-611	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C612	**US661680**	CERAMIC CAPACITOR-CH (CHIP)	68P 50V J RECT.	チップセラ（ＣＨ）			
C613	**US663150**	CERAMIC CAPACITOR-B (CHIP)	1500P 50V K RECT.	チップセラ（Ｂ）			
C614	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C615	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C616	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C617	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C618	**US661120**	CERAMIC CAPACITOR-CH (CHIP)	12P 50V J RECT.	チップセラ（ＣＨ）			
C619	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C620	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C621	**US661120**	CERAMIC CAPACITOR-CH (CHIP)	12P 50V J RECT.	チップセラ（ＣＨ）			
C622	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
-627	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C629	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01

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REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
C630	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-637	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C638	**US661470**	CERAMIC CAPACITOR-CH (CHIP)	47P 50V J RECT.	チップセラ（CH）			01
C639	**US660500**	CERAMIC CAPACITOR-CH (CHIP)	5P 50V C RECT.	チップセラ（CH）			01
C640	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C641	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C642	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-646	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C647	**US661150**	CERAMIC CAPACITOR-CH (CHIP)	15P 50V J RECT.	チップセラ（CH）			
C648	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-650	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C651	**US661120**	CERAMIC CAPACITOR-CH (CHIP)	12P 50V J RECT.	チップセラ（CH）			
-653	**US661120**	CERAMIC CAPACITOR-CH (CHIP)	12P 50V J RECT.	チップセラ（CH）			
C700	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-710	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C711	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C712	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C713	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C715	**US661150**	CERAMIC CAPACITOR-CH (CHIP)	15P 50V J RECT.	チップセラ（CH）			
C716	**US661150**	CERAMIC CAPACITOR-CH (CHIP)	15P 50V J RECT.	チップセラ（CH）			
C719	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-728	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C732	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C733	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C900	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C901	**US662100**	CERAMIC CAPACITOR-CH (CHIP)	100P 50V J RECT.	チップセラ（CH）			
C902	**US661120**	CERAMIC CAPACITOR-CH (CHIP)	12P 50V J RECT.	チップセラ（CH）			
C903	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C904	**US661100**	CERAMIC CAPACITOR-CH (CHIP)	10P 50V D RECT.	チップセラ（CH）			01
C905	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C906	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C907	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C908	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C909	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C910	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-931	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C936	**US662100**	CERAMIC CAPACITOR-CH (CHIP)	100P 50V J RECT.	チップセラ（CH）			
C937	**US662100**	CERAMIC CAPACITOR-CH (CHIP)	100P 50V J RECT.	チップセラ（CH）			
C939	**US661220**	CERAMIC CAPACITOR-CH (CHIP)	22P 50V J RECT.	チップセラ（CH）			
C941	**US661220**	CERAMIC CAPACITOR-CH (CHIP)	22P 50V J RECT.	チップセラ（CH）			
C942	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C943	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C944	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
-946	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C947	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C948	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C949	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C950	**UF03810R**	ELECTROLYTIC CAPACITOR (CHIP)	100 16V	チップケミコン			01
C951	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C952	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C953	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1000	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1001	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C1002	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1003	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01
C1004	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C1005	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C1006	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
-1008	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1009	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C1010	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1011	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01
C1012	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C1013	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1014	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C1015	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1016	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1017	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01
C1018	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
C1019	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01

✻: New Parts

RANK: Japan only

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REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
C1020	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C1021	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1022	**UF06610R**	ELECTROLYTIC CAPACITOR (CHIP)	1 50V	チップケミコン			01
C1026	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
-1029	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
C1030	**US642180**	CERAMIC CAPACITOR-CH (CHIP)	180P 25V J RECT.	チップセラ（ＣＨ）			01
-1037	**US642180**	CERAMIC CAPACITOR-CH (CHIP)	180P 25V J RECT.	チップセラ（ＣＨ）			01
C1040	**--**	CERAMIC CAPACITOR-SL (CHIP)	270P 50V J RECT.	チップセラ（ＳＬ）	(US66227)		
C1042	**UF056470**	ELECTROLYTIC CAPACITOR (CHIP)	4.7 35V	チップケミコン			01
-1044	**UF056470**	ELECTROLYTIC CAPACITOR (CHIP)	4.7 35V	チップケミコン			01
C1046	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
C1047	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
C1048	**US662100**	CERAMIC CAPACITOR-CH (CHIP)	100P 50V J RECT.	チップセラ（ＣＨ）			
C1050	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
C1052	**US633820**	CERAMIC CAPACITOR-B (CHIP)	8200P 16V K RECT.	チップセラ（Ｂ）			01
C1053	**US633820**	CERAMIC CAPACITOR-B (CHIP)	8200P 16V K RECT.	チップセラ（Ｂ）			01
C1054	**UF06610R**	ELECTROLYTIC CAPACITOR (CHIP)	1 50V	チップケミコン			01
C1056	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
-1059	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1060	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
C1061	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
C1062	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C1063	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
-1068	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
C1069	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C1070	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
C1071	**UF03810R**	ELECTROLYTIC CAPACITOR (CHIP)	100 16V	チップケミコン			01
C1072	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
C1073	**UF13822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 16V	チップケミコン			01
C1074	**UF13822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 16V	チップケミコン			01
C1075	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
C1076	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
C1078	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
C1079	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
C1081	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
-1085	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
C1087	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
C1088	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
C1091	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
-1093	**US663100**	CERAMIC CAPACITOR-B (CHIP)	1000P 50V K RECT.	チップセラ（Ｂ）			01
C1096	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1097	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
-1104	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C1105	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1106	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
-1121	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C1122	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
C1123	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
C1125	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
-1128	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C1129	**UF13822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 16V	チップケミコン			01
C1130	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（Ｂ）			01
C1131	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C1132	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1133	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C1134	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1135	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C1136	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1137	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C1138	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1139	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1140	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C1141	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C1142	**UF03810R**	ELECTROLYTIC CAPACITOR (CHIP)	100 16V	チップケミコン			01
C1200	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1201	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1202	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
-1233	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（ＢＪ）			01
C1234	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
C1235	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01

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	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	C1236	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	-1267	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C2000	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	-2059	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C2500	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	-2528	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C2600	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	-2614	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	CN1	**LB933060**	CONNECTOR BASE POST	VH 6P SE	ベースポスト			01
	CN3	**VT389000**	CONNECTOR BASE POST	PH 9P TE	ベース付ポスト			01
	CN4	**VT388900**	CONNECTOR BASE POST	PH 8P TE	ベース付ポスト			01
*	CN300	**WT758800**	CONNECTOR BASE POST	SHLD 20P TE	コネクタベースポスト			
	CN302	**VT388400**	CONNECTOR BASE POST	PH 3P TE	ベース付ポスト			01
	CN500	**LB919020**	CONNECTOR BASE POST	XH 2P SE	ベースツキポスト			01
	CN501	**V902080R**	USB CONNECTOR	4P SE	USB コネクタ B	USB TO HOST		02
	CN502	**WK450700**	USB CONNECTOR	YKF45-0033N 4P SE	USB コネクタ	USB TO DEVICE		
	CN503	**VT388700**	CONNECTOR BASE POST	PH 6P TE	ベース付ポスト			01
	CN504	**VT388600**	CONNECTOR BASE POST	PH 5P TE	ベース付ポスト			01
	CN600	**VT389300**	CONNECTOR BASE POST	PH 12P TE	ベース付ポスト			02
*	CN700	**WT802100**	PLUG	B TO B 8611 120P TE	B TO B プラグ			
	CN901	**VT388800**	CONNECTOR BASE POST	PH 7P TE	ベース付ポスト			
	CN902	**VT388800**	CONNECTOR BASE POST	PH 7P TE	ベース付ポスト			
	CN950	**VT389100**	CONNECTOR BASE POST	PH 10P TE	ベース付ポスト			01
	CN951	**VT389200**	CONNECTOR BASE POST	PH 11P TE	ベース付ポスト			01
	CN952	**VT388600**	CONNECTOR BASE POST	PH 5P TE	ベース付ポスト			01
	CN953	**LB919030**	CONNECTOR BASE POST	XH 3P SE	ベースツキポスト			01
	D1	**VN68110R**	CHIP DIODE	EC10DS4TE12L 1A 400V	チップダイオード			01
	D1	**VS20110R**	CHIP DIODE	D1F60 1A 600V TP	チップダイオード			01
	D1	**VT53250R**	DIODE	1SR154-400 TE-25	ダイオード			01
	D500	**V6267600**	DIODE	RB051L-40 TP	ダイオード			01
	D904	**VN68110R**	CHIP DIODE	EC10DS4TE12L 1A 400V	チップダイオード			01
	D904	**VS20110R**	CHIP DIODE	D1F60 1A 600V TP	チップダイオード			01
	D904	**VT53250R**	DIODE	1SR154-400 TE-25	ダイオード			01
	D1002	**VT332900**	DIODE	1SS355 TE-17 TP	ダイオード			01
*	D1002	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
	D1003	**VT332900**	DIODE	1SS355 TE-17 TP	ダイオード			01
*	D1003	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
	D1004	**VN68110R**	CHIP DIODE	EC10DS4TE12L 1A 400V	チップダイオード			01
	D1004	**VS20110R**	CHIP DIODE	D1F60 1A 600V TP	チップダイオード			01
	D1004	**VT53250R**	DIODE	1SR154-400 TE-25	ダイオード			01
	D1005	**VN68110R**	CHIP DIODE	EC10DS4TE12L 1A 400V	チップダイオード			01
	D1005	**VS20110R**	CHIP DIODE	D1F60 1A 600V TP	チップダイオード			01
	D1005	**VT53250R**	DIODE	1SR154-400 TE-25	ダイオード			01
	D1006	**VT332900**	DIODE	1SS355 TE-17 TP	ダイオード			01
	-1011	**VT332900**	DIODE	1SS355 TE-17 TP	ダイオード			01
*	D1006	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
*	-1011	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
	D1012	**VN68110R**	CHIP DIODE	EC10DS4TE12L 1A 400V	チップダイオード			01
	D1012	**VS20110R**	CHIP DIODE	D1F60 1A 600V TP	チップダイオード			01
	D1012	**VT53250R**	DIODE	1SR154-400 TE-25	ダイオード			01
	D1013	**VT332900**	DIODE	1SS355 TE-17 TP	ダイオード			01
*	D1013	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
	D1014	**VT332900**	DIODE	1SS355 TE-17 TP	ダイオード			01
*	D1014	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
	EM1	**WE94560R**	EMI FILTER (CHIP)	NFM21CC223R1H3D	エミフィルチップ			01
	EM2	**WE94560R**	EMI FILTER (CHIP)	NFM21CC223R1H3D	エミフィルチップ			01
	EM900	**WE94560R**	EMI FILTER (CHIP)	NFM21CC223R1H3D	エミフィルチップ			01
	EM901	**WE94560R**	EMI FILTER (CHIP)	NFM21CC223R1H3D	エミフィルチップ			01
	EM950	**WE94560R**	EMI FILTER (CHIP)	NFM21CC223R1H3D	エミフィルチップ			01
	-953	**WE94560R**	EMI FILTER (CHIP)	NFM21CC223R1H3D	エミフィルチップ			01
⚠ *	FZ1	**WT895500**	CHIP FUSE	FAST-ACTING 0.5A	チップヒューズ			
⚠ *	FZ2	**WT895500**	CHIP FUSE	FAST-ACTING 0.5A	チップヒューズ			
⚠	FZ900	**WU942800**	CHIP FUSE	FAST-ACTING 0.50A	チップヒューズ			01
⚠ *	FZ901	**WT895500**	CHIP FUSE	FAST-ACTING 0.5A	チップヒューズ			
⚠	FZ951	**WU942800**	CHIP FUSE	FAST-ACTING 0.50A	チップヒューズ			01
*	IC1	**YC170A00**	IC	R8A77310D333BG	I C	MAIN CPU		
	IC3	**X2377A0R**	IC	SN74LV21APWR	I C	AND		01
	IC3	**X5542A00**	IC	TC74VHC21FT(EL)	I C			01
	IC4	**X9347A00**	IC	R3112N291A-TR-F	I C	SYSTEM RESET		01
	IC5	**XV890B0R**	IC	TC74VHC14FT(EL,K)	I C	INVERTER		01

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	REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY	RANK
	IC6	**X3693A01**	IC	SN74LV245APWR	I C	TRANSCEIVER		05
	-9	**X3693A01**	IC	SN74LV245APWR	I C			05
	IC6	**XU797B01**	IC	TC74VHC245FT(EL,K)	I C			
	-9	**XU797B01**	IC	TC74VHC245FT(EL,K)	I C			
	IC10	**XV893A0R**	IC	TC74VHC139FT(EL)	I C	DECODER		02
	IC11	**X3693A01**	IC	SN74LV245APWR	I C	TRANSCEIVER		05
	IC11	**XU797B01**	IC	TC74VHC245FT(EL,K)	I C			
	IC12	**X3693A01**	IC	SN74LV245APWR	I C	TRANSCEIVER		05
	IC12	**XU797B01**	IC	TC74VHC245FT(EL,K)	I C			
	IC13	**X9292A00**	IC	R1172H121D-T1-F	I C	REGULATOR +1.2V		01
	IC14	**X7942B00**	IC	TC74VHC273FT(EL,K)	I C	D-FF		01
	IC15	**XW633A0R**	IC	TC7SH32FU(TE85L)	I C	OR		01
*	IC16	**YC839C00**	IC	S29GL256P90TFCR20	I C	FLASH ROM 256M PROGRAM		
*	IC16	**YC840C00**	IC	MX29GL256ELT2I-90Q	I C			
	IC17	**XV890B0R**	IC	TC74VHC14FT(EL,K)	I C	INVERTER		01
	IC18	**X5647A00**	IC	SN74LV32APWR	I C	OR		01
	IC18	**XY945B00**	IC	TC74VHC32FT(EL,K)	I C			
*	IC19	**YC842C00**	IC	S29GL512P10TFCR20	I C	FLASH ROM 512M DATA		
*	IC19	**YC843C00**	IC	JS28F512M29EWL	I C			
	IC20	**XR680A00**	IC	TC7SH08FU(TE85L)	I C	AND		01
	IC23	**--**	IC	MX29LV640EBTI-70G	I C	FLASH ROM 64M BACKUP (X9697B0)		
	IC201	**X3584D00**	IC	W9812G6IH-6	I C	SDRAM 128M		
	-204	**X3584D00**	IC	W9812G6IH-6	I C			
*	IC201	**X3584E00**	IC	W9812G6JH-6	I C			
*	-204	**X3584E00**	IC	W9812G6JH-6	I C			
*	IC304	**YC491A00**	IC	FIN1215MTDX	I C	LVDS SERIALIZER/DE-SERIALIZER		
*	IC400	**YC258A00**	IC	AX88796BLF	I C	LAN CONTROLLER		
*	IC500	**X8288A00**	IC	ISP1760BE	I C	USB2.0 HOST CONTROLLER		
	IC501	**X9034A00**	IC	SI-8001FDE	I C	DC-DC CONVERTER		04
	IC502	**X7951A00**	IC	BD6517F-E2	I C	HIGH SIDE SWITCH		04
	IC503	**X7951A00**	IC	BD6517F-E2	I C	HIGH SIDE SWITCH		04
	IC600	**X4063A00**	IC	TC7WHU04FU	I C	INVERTER		
	-602	**X4063A00**	IC	TC7WHU04FU	I C	INVERTER		
	IC603	**X6356B00**	IC	YGV628B-VZ	I C	RGB CONTROLLER AVDP7		11
	IC604	**X6536A0R**	IC	TC74ACT74FT(EL)	I C	D-FF		02
	IC605	**X7703A00**	IC	TC7WT126FU(TE12L)	I C	BUFFER		02
	IC606	**XS062A00**	IC	BH7236AF-E2	I C	RGB ENCODER		04
	IC607	**X2590C00**	IC	W9816G6IH-7	I C	SDRAM 16M		04
*	IC607	**X5693C00**	IC	M12L16161A-7TG2K	I C			
	IC700	**X8940A00**	IC	T6TJ3XBG-0001(O)	I C	SWP51L		09
	IC701	**X8940A00**	IC	T6TJ3XBG-0001(O)	I C	SWP51L		09
*	IC702	**YC852A00**	IC	JS28F00AM29EWL	I C	WAVE ROM H0 1G		
*	IC702	**YC852100**	IC	MR36V01G52B-10JTA03A	I C			
*	IC703	**YC853A00**	IC	JS28F00AM29EWL	I C	WAVE ROM H1 1G		
*	IC703	**YC853100**	IC	MR36V01G52B-10KTA03A	I C			
	IC704	**X3693A01**	IC	SN74LV245APWR	I C	TRANSCEIVER		05
	-709	**X3693A01**	IC	SN74LV245APWR	I C			05
	IC704	**XU797B01**	IC	TC74VHC245FT(EL,K)	I C			
	-709	**XU797B01**	IC	TC74VHC245FT(EL,K)	I C			
	IC713	**X3693A01**	IC	SN74LV245APWR	I C	TRANSCEIVER		05
	-716	**X3693A01**	IC	SN74LV245APWR	I C			05
	IC713	**XU797B01**	IC	TC74VHC245FT(EL,K)	I C			
	-716	**XU797B01**	IC	TC74VHC245FT(EL,K)	I C			
*	IC717	**YC850A00**	IC	JS28F00AM29EWL	I C	WAVE ROM L0 1G		
*	IC717	**YC850100**	IC	MR36V01G52B-10GTA03A	I C			
*	IC718	**YC851A00**	IC	JS28F00AM29EWL	I C	WAVE ROM L1 1G		
*	IC718	**YC851100**	IC	MR36V01G52B-10HTA03A	I C			
	IC719	**X3693A01**	IC	SN74LV245APWR	I C	TRANSCEIVER		05
	IC719	**XU797B01**	IC	TC74VHC245FT(EL,K)	I C			
	IC720	**X3693A01**	IC	SN74LV245APWR	I C	TRANSCEIVER		05
	IC720	**XU797B01**	IC	TC74VHC245FT(EL,K)	I C			
	IC725	**XV893A0R**	IC	TC74VHC139FT(EL)	I C	DECODER		02
	IC900	**XW814A0R**	IC	TC7SET32FU(TE85L)	I C	OR		01
	IC901	**YA492A00**	IC	GTL2002DP	I C	TRANSLATOR 2bit		
	IC902	**X6363A00**	IC	MB87S1280	I C	SSP1		09
*	IC904	**YC844C00**	IC	MX29LV160DBTI-70G	I C	FLASH ROM 16M SSP1-PROGRAM		
	IC905	**X7856A00**	IC	IS62WV25616BLL-55T	I C	SRAM 4M		08
	IC906	**X7820A00**	IC	BA18BC0FP-E2	I C	REGULATOR +1.8V		02
	IC950	**X8324A00**	IC	AK4396VF-E2	I C	DAC		06
	IC951	**X8324A00**	IC	AK4396VF-E2	I C	DAC		06

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	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	IC952	**X5219A0R**	IC	AK5381VT-E2	IC	ADC		05
	IC954	**X3505A00**	IC	NJM2068M-D(TE2)	IC	OP AMP		02
	-956	**X3505A00**	IC	NJM2068M-D(TE2)	IC	OP AMP		02
	IC957	**X9293A00**	IC	R1172H151D-T1-F	IC	REGULATOR +1.5V		01
	IC958	**X9293A00**	IC	R1172H151D-T1-F	IC	REGULATOR +1.5V		01
	IC959	**XV890B0R**	IC	TC74VHC14FT(EL,K)	IC	INVERTER		01
	IC960	**X8705A00**	IC	KIA78M05F	IC	REGULATOR +5V		02
	IC961	**X0176D00**	IC	W9864G2IH-7	IC	SDRAM 64M		
	IC962	**X0176D00**	IC	W9864G2IH-7	IC	SDRAM 64M		
*	JK400	**WT848700**	MODULAR CONNECTOR	8P RJC-308TC	モジュラーコネクター	LAN		
*	K1	**WU107200**	THROUGH HOLE TAP	TH-0.8-8.0-M4	スルーホールタップ			
*	K2	**WU107200**	THROUGH HOLE TAP	TH-0.8-8.0-M4	スルーホールタップ			
	L25	**WK139000**	CHIP INDUCTANCE	600 BK1005HM601-T	チップインダクタ			01
	-35	**WK139000**	CHIP INDUCTANCE	600 BK1005HM601-T	チップインダクタ			01
*	L302	**WT761600**	CHIP COIL	DLW31SN222SQ2 32	チップチョークコイル			
*	-305	**WT761600**	CHIP COIL	DLW31SN222SQ2 32	チップチョークコイル			
	L312	**WG834800**	COIL FIXED	DLW21HN900SQ2L	コイル			01
	L503	**WQ345500**	COIL FIXED	CHR1048-220M-T SMD	コイル			03
	L507	**WG834800**	COIL FIXED	DLW21HN900SQ2L	コイル			01
	-510	**WG834800**	COIL FIXED	DLW21HN900SQ2L	コイル			01
	L905	**WK139000**	CHIP INDUCTANCE	600 BK1005HM601-T	チップインダクタ			01
	-910	**WK139000**	CHIP INDUCTANCE	600 BK1005HM601-T	チップインダクタ			01
	L1015	**WK139000**	CHIP INDUCTANCE	600 BK1005HM601-T	チップインダクタ			01
	L1017	**WK139000**	CHIP INDUCTANCE	600 BK1005HM601-T	チップインダクタ			01
	-1025	**WK139000**	CHIP INDUCTANCE	600 BK1005HM601-T	チップインダクタ			01
	L1027	**WK139000**	CHIP INDUCTANCE	600 BK1005HM601-T	チップインダクタ			01
	L1028	**WK139000**	CHIP INDUCTANCE	600 BK1005HM601-T	チップインダクタ			01
	R1	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R2	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R3	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
	R4	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
	R5	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R6	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-10	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R15	**RD454100**	CARBON RESISTOR (CHIP)	10.0 63M J RECT.	チップ抵抗			01
	R16	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
	R17	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R19	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
	R21	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R22	**RD45547R**	CARBON RESISTOR (CHIP)	470.0 63M J RECT.	チップ抵抗			01
	R23	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R24	**RD455680**	CARBON RESISTOR (CHIP)	680.0 63M J RECT.	チップ抵抗			01
	R25	**RD455680**	CARBON RESISTOR (CHIP)	680.0 63M J RECT.	チップ抵抗			01
	R27	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R28	**RD454330**	CARBON RESISTOR (CHIP)	33.0 63M J RECT.	チップ抵抗			01
	R29	**RD454330**	CARBON RESISTOR (CHIP)	33.0 63M J RECT.	チップ抵抗			01
	R30	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
	R31	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R32	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-35	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R36	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	-41	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	R42	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-46	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R47	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	-56	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	R57	**RD454330**	CARBON RESISTOR (CHIP)	33.0 63M J RECT.	チップ抵抗			01
	-59	**RD454330**	CARBON RESISTOR (CHIP)	33.0 63M J RECT.	チップ抵抗			01
	R60	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R62	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R63	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R64	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R65	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R66	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R67	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R68	**RD456470**	CARBON RESISTOR (CHIP)	4.7K 63M J RECT.	チップ抵抗			01
	R69	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-72	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R73	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R74	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01

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REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
R75	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R76	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R77	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R78	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R79	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R80	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-85	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R87	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-90	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R91	**RD458470**	CARBON RESISTOR (CHIP)	470.0K 63M J RECT.	チップ抵抗			
R92	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R93	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R94	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R95	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R96	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R97	**RD458470**	CARBON RESISTOR (CHIP)	470.0K 63M J RECT.	チップ抵抗			
R98	**RD458470**	CARBON RESISTOR (CHIP)	470.0K 63M J RECT.	チップ抵抗			
R99	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
R101	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R102	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
R103	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R104	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R105	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R106	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
R108	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R109	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R111	**RD45522R**	CARBON RESISTOR (CHIP)	220.0 63M J RECT.	チップ抵抗			01
R112	**RD45522R**	CARBON RESISTOR (CHIP)	220.0 63M J RECT.	チップ抵抗			01
R113	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R114	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R116	**RD45522R**	CARBON RESISTOR (CHIP)	220.0 63M J RECT.	チップ抵抗			01
-119	**RD45522R**	CARBON RESISTOR (CHIP)	220.0 63M J RECT.	チップ抵抗			01
R120	**RD458100**	CARBON RESISTOR (CHIP)	100.0K 63M J RECT.	チップ抵抗			01
R121	**RD458100**	CARBON RESISTOR (CHIP)	100.0K 63M J RECT.	チップ抵抗			01
R122	**RD456470**	CARBON RESISTOR (CHIP)	4.7K 63M J RECT.	チップ抵抗			01
R123	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R124	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R127	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R128	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R145	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
-150	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R152	**RD458470**	CARBON RESISTOR (CHIP)	470.0K 63M J RECT.	チップ抵抗			
-154	**RD458470**	CARBON RESISTOR (CHIP)	470.0K 63M J RECT.	チップ抵抗			
R200	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R201	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R202	**RD35427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R203	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
-207	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R208	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-215	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R216	**RD35427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R217	**RD35427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R218	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-223	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R224	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R225	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R226	**RD35427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R227	**RD35427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R228	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-233	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R234	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R235	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R236	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-241	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R242	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R243	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R244	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-249	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R250	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R251	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01

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REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
R252	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-255	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R256	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
-259	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R313	**RD45547R**	CARBON RESISTOR (CHIP)	470.0 63M J RECT.	チップ抵抗			01
-320	**RD45547R**	CARBON RESISTOR (CHIP)	470.0 63M J RECT.	チップ抵抗			01
R322	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R326	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R327	**RD355100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
R329	**RD355100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
R330	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R335	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
R336	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R337	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R338	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-342	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R343	**RD456560**	CARBON RESISTOR (CHIP)	5.6K 63M J RECT.	チップ抵抗			01
R344	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
R345	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
R347	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R400	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R401	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R402	**RD459100**	CARBON RESISTOR (CHIP)	1.0M 63M J RECT.	チップ抵抗			01
R403	**RF455100**	CARBON RESISTOR (CHIP)	100.0 D RECT.	チップ抵抗			
-410	**RF455100**	CARBON RESISTOR (CHIP)	100.0 D RECT.	チップ抵抗			
R411	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R412	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R418	**RD454330**	CARBON RESISTOR (CHIP)	33.0 63M J RECT.	チップ抵抗			01
R419	**RF457120**	CARBON RESISTOR (CHIP)	12.0K D RECT.	チップ抵抗			
R420	**RD459100**	CARBON RESISTOR (CHIP)	1.0M 63M J RECT.	チップ抵抗			01
R422	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R423	**RD456470**	CARBON RESISTOR (CHIP)	4.7K 63M J RECT.	チップ抵抗			01
R424	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
-429	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R430	**RF455100**	CARBON RESISTOR (CHIP)	100.0 D RECT.	チップ抵抗			
R500	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R501	**RD459100**	CARBON RESISTOR (CHIP)	1.0M 63M J RECT.	チップ抵抗			01
R503	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R504	**RF457120**	CARBON RESISTOR (CHIP)	12.0K D RECT.	チップ抵抗			
-506	**RF457120**	CARBON RESISTOR (CHIP)	12.0K D RECT.	チップ抵抗			
R507	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R509	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
-513	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R514	**RF456430**	CARBON RESISTOR (CHIP)	4.3K D RECT.	チップ抵抗			01
R515	**RF455820**	CARBON RESISTOR (CHIP)	820.0 D RECT.	チップ抵抗			01
R516	**RF455150**	CARBON RESISTOR (CHIP)	150.0 D RECT.	チップ抵抗			01
R517	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
-522	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R523	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R524	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R525	**RD455100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
R539	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
-541	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R542	**RF455470**	CARBON RESISTOR (CHIP)	470.0 D RECT.	チップ抵抗			
R600	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
-602	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R603	**RD459100**	CARBON RESISTOR (CHIP)	1.0M 63M J RECT.	チップ抵抗			01
R604	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R605	**RD459100**	CARBON RESISTOR (CHIP)	1.0M 63M J RECT.	チップ抵抗			01
R606	**RD454330**	CARBON RESISTOR (CHIP)	33.0 63M J RECT.	チップ抵抗			01
R607	**RD454470**	CARBON RESISTOR (CHIP)	47.0 63M J RECT.	チップ抵抗			01
R608	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R609	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R610	**RD45615R**	CARBON RESISTOR (CHIP)	1.5K 63M J RECT.	チップ抵抗			01
R611	**RD454330**	CARBON RESISTOR (CHIP)	33.0 63M J RECT.	チップ抵抗			01
R612	**RA156680**	METAL FILM RESISTOR (CHIP)	6.8K 63M D RECT.	チップ金被抵抗			01
R613	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
R614	**RD459100**	CARBON RESISTOR (CHIP)	1.0M 63M J RECT.	チップ抵抗			01
R615	**RD455680**	CARBON RESISTOR (CHIP)	680.0 63M J RECT.	チップ抵抗			01
R616	**RD454330**	CARBON RESISTOR (CHIP)	33.0 63M J RECT.	チップ抵抗			01

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	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	R617	**RD454470**	CARBON RESISTOR (CHIP)	47.0 63M J RECT.	チップ抵抗			01
	-619	**RD454470**	CARBON RESISTOR (CHIP)	47.0 63M J RECT.	チップ抵抗			01
	R620	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R621	**RF455100**	CARBON RESISTOR (CHIP)	100.0 D RECT.	チップ抵抗			
	R622	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R623	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R624	**RF455100**	CARBON RESISTOR (CHIP)	100.0 D RECT.	チップ抵抗			
	R625	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R626	**RF454750**	CARBON RESISTOR (CHIP)	75.0 D RECT.	チップ抵抗			
	R627	**RD355150**	CARBON RESISTOR (CHIP)	150.0 63M J RECT.	チップ抵抗			01
	R628	**RF454750**	CARBON RESISTOR (CHIP)	75.0 D RECT.	チップ抵抗			
	R629	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R630	**RF454820**	CARBON RESISTOR (CHIP)	82.0 D RECT.	チップ抵抗			01
	R631	**RF454750**	CARBON RESISTOR (CHIP)	75.0 D RECT.	チップ抵抗			
	R632	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R633	**RF454820**	CARBON RESISTOR (CHIP)	82.0 D RECT.	チップ抵抗			01
	R634	**RF454750**	CARBON RESISTOR (CHIP)	75.0 D RECT.	チップ抵抗			
	-636	**RF454750**	CARBON RESISTOR (CHIP)	75.0 D RECT.	チップ抵抗			
	R637	**RD455560**	CARBON RESISTOR (CHIP)	560.0 63M J RECT.	チップ抵抗			
	R638	**RD456220**	CARBON RESISTOR (CHIP)	2.2K 63M J RECT.	チップ抵抗			01
	R639	**RD456220**	CARBON RESISTOR (CHIP)	2.2K 63M J RECT.	チップ抵抗			01
	R640	**RD454330**	CARBON RESISTOR (CHIP)	33.0 63M J RECT.	チップ抵抗			01
	R641	**RD454330**	CARBON RESISTOR (CHIP)	33.0 63M J RECT.	チップ抵抗			01
	R642	**RF454750**	CARBON RESISTOR (CHIP)	75.0 D RECT.	チップ抵抗			
*	R643	**RF454120**	CARBON RESISTOR (CHIP)	12.0 D RECT.	チップ抵抗			
*	-645	**RF454120**	CARBON RESISTOR (CHIP)	12.0 D RECT.	チップ抵抗			
	R646	**RF454220**	CARBON RESISTOR (CHIP)	22.0 D RECT.	チップ抵抗			01
	-648	**RF454220**	CARBON RESISTOR (CHIP)	22.0 D RECT.	チップ抵抗			01
	R654	**RF454750**	CARBON RESISTOR (CHIP)	75.0 D RECT.	チップ抵抗			
	-656	**RF454750**	CARBON RESISTOR (CHIP)	75.0 D RECT.	チップ抵抗			
	R700	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-721	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R722	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R723	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R726	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R729	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	R730	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	R731	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R732	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R733	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R736	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R737	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R738	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	-741	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	R742	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-744	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R745	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R746	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R747	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-749	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R750	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R751	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R752	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R753	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	R754	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-760	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R761	**RD459100**	CARBON RESISTOR (CHIP)	1.0M 63M J RECT.	チップ抵抗			01
	R762	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	R763	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	-765	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R766	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R767	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R768	**RD45615R**	CARBON RESISTOR (CHIP)	1.5K 63M J RECT.	チップ抵抗			01
	R769	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-772	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R773	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R776	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	R777	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	R778	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R779	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01

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	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	R780	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R783	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R784	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R786	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R787	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R789	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R790	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R792	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	-797	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R798	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-801	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R805	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R806	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R812	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R813	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R900	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-902	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
*	R903	**RD458220**	CARBON RESISTOR (CHIP)	220.0K 63M J RECT.	チップ抵抗			
	R904	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	-906	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R907	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-920	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R921	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R922	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R923	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	-925	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R926	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R927	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R928	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R929	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R930	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R931	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R932	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R934	**RD45547R**	CARBON RESISTOR (CHIP)	470.0 63M J RECT.	チップ抵抗			01
	R935	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R937	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R939	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R940	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R941	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R944	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R945	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
	R946	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R947	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R950	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R951	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R952	**RD45615R**	CARBON RESISTOR (CHIP)	1.5K 63M J RECT.	チップ抵抗			01
	R954	**RD45615R**	CARBON RESISTOR (CHIP)	1.5K 63M J RECT.	チップ抵抗			01
	R956	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R957	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R960	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-967	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R1001	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R1002	**RD455100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
	R1003	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	-1010	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R1012	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R1013	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R1016	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	-1018	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R1019	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R1020	**RD356120**	CARBON RESISTOR (CHIP)	1.2K 63M J RECT.	チップ抵抗			01
	R1022	**RD456390**	CARBON RESISTOR (CHIP)	3.9K 63M J RECT.	チップ抵抗			
	-1029	**RD456390**	CARBON RESISTOR (CHIP)	3.9K 63M J RECT.	チップ抵抗			
	R1030	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R1032	**RD457120**	CARBON RESISTOR (CHIP)	12.0K 63M J RECT.	チップ抵抗			
	-1036	**RD457120**	CARBON RESISTOR (CHIP)	12.0K 63M J RECT.	チップ抵抗			
	R1037	**RD456470**	CARBON RESISTOR (CHIP)	4.7K 63M J RECT.	チップ抵抗			01
	R1038	**RD456470**	CARBON RESISTOR (CHIP)	4.7K 63M J RECT.	チップ抵抗			01
	R1039	**RD457120**	CARBON RESISTOR (CHIP)	12.0K 63M J RECT.	チップ抵抗			
	R1040	**RD456470**	CARBON RESISTOR (CHIP)	4.7K 63M J RECT.	チップ抵抗			01

*: New Parts

RANK: Japan only

DM

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
R1041	**RD456470**	CARBON RESISTOR (CHIP)	4.7K 63M J RECT.	チップ抵抗			01
R1042	**RD457120**	CARBON RESISTOR (CHIP)	12.0K 63M J RECT.	チップ抵抗			
R1043	**RD456470**	CARBON RESISTOR (CHIP)	4.7K 63M J RECT.	チップ抵抗			01
R1044	**RD456470**	CARBON RESISTOR (CHIP)	4.7K 63M J RECT.	チップ抵抗			01
R1045	**RD457120**	CARBON RESISTOR (CHIP)	12.0K 63M J RECT.	チップ抵抗			
R1046	**RD456470**	CARBON RESISTOR (CHIP)	4.7K 63M J RECT.	チップ抵抗			01
R1047	**RD456470**	CARBON RESISTOR (CHIP)	4.7K 63M J RECT.	チップ抵抗			01
R1048	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
-1050	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R1052	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R1053	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R1054	**RD457120**	CARBON RESISTOR (CHIP)	12.0K 63M J RECT.	チップ抵抗			
R1055	**RD45747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
R1056	**RD454470**	CARBON RESISTOR (CHIP)	47.0 63M J RECT.	チップ抵抗			01
-1059	**RD454470**	CARBON RESISTOR (CHIP)	47.0 63M J RECT.	チップ抵抗			01
R1060	**RD457560**	CARBON RESISTOR (CHIP)	56.0K 63M J RECT.	チップ抵抗			01
R1062	**RD458100**	CARBON RESISTOR (CHIP)	100.0K 63M J RECT.	チップ抵抗			01
R1063	**RD458100**	CARBON RESISTOR (CHIP)	100.0K 63M J RECT.	チップ抵抗			01
R1064	**RD456220**	CARBON RESISTOR (CHIP)	2.2K 63M J RECT.	チップ抵抗			01
R1066	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R1067	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R1068	**RD458100**	CARBON RESISTOR (CHIP)	100.0K 63M J RECT.	チップ抵抗			01
R1072	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
R1074	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R1075	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R1076	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-1078	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R1079	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R1081	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R1082	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R1083	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R1085	**WD07550R**	CARBON RESISTOR (CHIP)	6.8 1/8W J	チップ抵抗			
-1088	**WD07550R**	CARBON RESISTOR (CHIP)	6.8 1/8W J	チップ抵抗			
R1089	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R1090	**RD455100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
R1091	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-1096	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R1097	**RD455100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
R1098	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-1102	**RD454680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R1110	**RD456100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R1111	**RD458100**	CARBON RESISTOR (CHIP)	100.0K 63M J RECT.	チップ抵抗			01
R1112	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R1113	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R1114	**RD455100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
R1115	**RD45515R**	CARBON RESISTOR (CHIP)	150.0 63M J RECT.	チップ抵抗			01
R1116	**RD456330**	CARBON RESISTOR (CHIP)	3.3K 63M J RECT.	チップ抵抗			
R1117	**RD45547R**	CARBON RESISTOR (CHIP)	470.0 63M J RECT.	チップ抵抗			01
R1118	**RD45547R**	CARBON RESISTOR (CHIP)	470.0 63M J RECT.	チップ抵抗			01
R1119	**RD458100**	CARBON RESISTOR (CHIP)	100.0K 63M J RECT.	チップ抵抗			01
R1120	**RD457120**	CARBON RESISTOR (CHIP)	12.0K 63M J RECT.	チップ抵抗			
RA1	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
-11	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
RA14	**WH209400**	RESISTOR ARRAY	1.0K X4	抵抗アレイ			
RA15	**WH213400**	RESISTOR ARRAY	47K X4	抵抗アレイ			01
RA17	**WH213400**	RESISTOR ARRAY	47K X4	抵抗アレイ			01
RA18	**WH205600**	RESISTOR ARRAY	27X4	抵抗アレイ			
-27	**WH205600**	RESISTOR ARRAY	27X4	抵抗アレイ			
RA28	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
-35	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
RA36	**WH205600**	RESISTOR ARRAY	27X4	抵抗アレイ			
-51	**WH205600**	RESISTOR ARRAY	27X4	抵抗アレイ			
RA52	**WH213400**	RESISTOR ARRAY	47K X4	抵抗アレイ			01
RA53	**WH205600**	RESISTOR ARRAY	27X4	抵抗アレイ			
-65	**WH205600**	RESISTOR ARRAY	27X4	抵抗アレイ			
RA200	**WH205600**	RESISTOR ARRAY	27X4	抵抗アレイ			
-246	**WH205600**	RESISTOR ARRAY	27X4	抵抗アレイ			
* RA304	**WH207400**	RESISTOR ARRAY	150X4	抵抗アレイ			
* -307	**WH207400**	RESISTOR ARRAY	150X4	抵抗アレイ			
RA400	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01

✻: New Parts

RANK: Japan only

DM and EN/PNC

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	-403	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	RA500	**WH213400**	RESISTOR ARRAY	47K X4	抵抗アレイ			01
	-503	**WH213400**	RESISTOR ARRAY	47K X4	抵抗アレイ			01
	RA504	**WH211800**	RESISTOR ARRAY	10K X4	抵抗アレイ			01
	RA600	**WH205600**	RESISTOR ARRAY	27X4	抵抗アレイ			
	-608	**WH205600**	RESISTOR ARRAY	27X4	抵抗アレイ			
	RA609	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	-615	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	RA700	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	-719	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	RA720	**WH216700**	RESISTOR ARRAY	0X4	抵抗アレイ			01
	RA721	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	RA740	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	-781	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	RA802	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	-823	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	RA830	**WH213400**	RESISTOR ARRAY	47K X4	抵抗アレイ			01
	-833	**WH213400**	RESISTOR ARRAY	47K X4	抵抗アレイ			01
	RA840	**WH213400**	RESISTOR ARRAY	47K X4	抵抗アレイ			01
	-843	**WH213400**	RESISTOR ARRAY	47K X4	抵抗アレイ			01
	RA844	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	RA900	**WH211800**	RESISTOR ARRAY	10K X4	抵抗アレイ			01
	RA901	**WH211800**	RESISTOR ARRAY	10K X4	抵抗アレイ			01
	RA902	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	-917	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	RA918	**WH213400**	RESISTOR ARRAY	47K X4	抵抗アレイ			01
	-925	**WH213400**	RESISTOR ARRAY	47K X4	抵抗アレイ			01
	RA926	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	-929	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	RA931	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	-987	**WH206600**	RESISTOR ARRAY	68X4	抵抗アレイ			01
	TA600	**V273190R**	PAIR TRANSISTOR	IMX9	ペアトランジスタ			01
⚠	TH300	**WQ479700**	POLYSWITCH	MF-MSMF110/16-2	ポリスイッチ			01
⚠	TH300	**WR725400**	POLYSWITCH	FSMD110-16	ポリスイッチ			
	TR950	**VV556400**	TRANSISTOR	2SC2412K Q,R,S TP	トランジスタ 2SC			01
	-952	**VV556400**	TRANSISTOR	2SC2412K Q,R,S TP	トランジスタ 2SC			01
	TR950	**WC529400**	TRANSISTOR	KTC3875S-Y,GR-RTK/P	トランジスタ			01
	-952	**WC529400**	TRANSISTOR	KTC3875S-Y,GR-RTK/P	トランジスタ			01
	TR953	**VJ92720R**	TRANSISTOR	2SA1162-Y(TE85R,F)	トランジスタ 2SA			01
	TR954	**VV556400**	TRANSISTOR	2SC2412K Q,R,S TP	トランジスタ 2SC			01
	TR954	**WC529400**	TRANSISTOR	KTC3875S-Y,GR-RTK/P	トランジスタ			01
*	X1	**WT856500**	QUARTZ CRYSTAL UNIT	32.768KHz SG-3030JC	水晶発振器			
*	X2	**WT761100**	QUARTZ CRYSTAL UNIT	16.000MHz SG-9001LB	水晶発振器			
	X302	**WH521200**	QUARTZ CRYSTAL UNIT	48.0MHz SG-310SCF	水晶振動器			04
	X303	**WM284600**	QUARTZ CRYSTAL UNIT	24.000MHz DSO321SR	水晶発振器			03
*	X303	**WU437600**	QUARTZ CRYSTAL UNIT	24.000MHz SG-310SCF	水晶発振器			
	X400	**WM135400**	QUARTZ CRYSTAL UNIT	25.0MHz DSX321G	水晶振動子			03
	X500	**WK192600**	QUARTZ CRYSTAL UNIT	12.0MHz DSX321G	水晶振動子			04
	X600	**WQ282500**	QUARTZ CRYSTAL UNIT	25.175MHz DSX321G	水晶振動子			
	X601	**WM285000**	QUARTZ CRYSTAL UNIT	14.31818MHz DSX321G	水晶振動子			02
	X602	**WM285100**	QUARTZ CRYSTAL UNIT	17.734475MHz DSX321G	水晶振動子			02
	X700	**WM135300**	QUARTZ CRYSTAL UNIT	11.2896MHz DSX321G	水晶振動子			03
	X900	**WM135200**	QUARTZ CRYSTAL UNIT	16.9344MHz DSX321G	水晶振動子			03
*		**WT903000**	CIRCUIT BOARD	EN	ENシート	(WT90280)(YC489A0)		
*		**WT902900**	CIRCUIT BOARD	PNC	PNCシート	(WT90280)(YC489A0)		
	50	**--**	JUMPER CABLE	0.55 TIN	ジャンパー線	(VA07890)	16	
	C22	**VT43960R**	MONOLITHIC CERAMIC CAPACITOR	0.100 50V Z RX TP	積層セラコン			01
	CN1	**--**	CONNECTOR ASSEMBLY	DS-KR 4P L=100	DS-KR束線	(WU65400)		
	CN2	**WK743400**	FFC CONNECTOR	52807 22P SE	FFCコネクター			02
	CN201	**VB858300**	CONNECTOR BASE POST	PH 4P SE	ベースポスト			01
	D1	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
	-33	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
	D1	**VD631600**	DIODE	1SS133,176,HSS104	ダイオード			01
	-33	**VD631600**	DIODE	1SS133,176,HSS104	ダイオード			01
	D201	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
	D201	**VD631600**	DIODE	1SS133,176,HSS104	ダイオード			01
	D202	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
	D202	**VD631600**	DIODE	1SS133,176,HSS104	ダイオード			01
	EC201	**VU48130R**	ENCODER	REB161(9X5)PVB15FH1NA	16形エンコーダ	DATA ENTRY		03

*: New Parts

RANK: Japan only

EN/PNC and LCL/LCR

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	R22	**HF45510R**	CARBON RESISTOR	100.0 1/4 J AX TP	カーボン抵抗			01
	-29	**HF45510R**	CARBON RESISTOR	100.0 1/4 J AX TP	カーボン抵抗			01
	R22	**HF75510R**	CARBON RESISTOR	100.0 1/4 J AX TP	カーボン抵抗			01
	-29	**HF75510R**	CARBON RESISTOR	100.0 1/4 J AX TP	カーボン抵抗			01
	SW1	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	1△		01
	SW2	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	1▽		01
	SW3	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	5△		01
	SW4	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	5▽		01
	SW5	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	2△		01
	SW6	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	2▽		01
	SW7	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	6△		01
	SW8	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	6▽		01
	SW9	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	3△		01
	SW10	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	3▽		01
	SW11	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	7△		01
	SW12	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	7▽		01
	SW13	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	4△		01
	SW14	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	4▽		01
	SW15	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	8△		01
	SW16	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	8▽		01
	SW17	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	ENTER		01
	VR1	**WN562700**	SLIDE VARIABLE RESISTOR	B 10.0K RS20111A9A	スライドVR	1 slider		03
	VR2	**WN562700**	SLIDE VARIABLE RESISTOR	B 10.0K RS20111A9A	スライドVR	2 slider		03
	VR3	**WN562700**	SLIDE VARIABLE RESISTOR	B 10.0K RS20111A9A	スライドVR	3 slider		03
	VR4	**WN562700**	SLIDE VARIABLE RESISTOR	B 10.0K RS20111A9A	スライドVR	4 slider		03
	VR5	**WN562700**	SLIDE VARIABLE RESISTOR	B 10.0K RS20111A9A	スライドVR	5 slider		03
	VR6	**WN562700**	SLIDE VARIABLE RESISTOR	B 10.0K RS20111A9A	スライドVR	6 slider		03
	VR7	**WN562700**	SLIDE VARIABLE RESISTOR	B 10.0K RS20111A9A	スライドVR	7 slider		03
	VR8	**WN562700**	SLIDE VARIABLE RESISTOR	B 10.0K RS20111A9A	スライドVR	8 slider		03
*		**WT902200**	CIRCUIT BOARD	LCL	LCLシート	(WT78420)(YC270B0)		
*		**WT902300**	CIRCUIT BOARD	LCR	LCRシート	(WT78420)(YC270B0)		
	C102	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C103	**UF03810R**	ELECTROLYTIC CAPACITOR (CHIP)	100 16V	チップケミコン			01
	C104	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	-107	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C108	**US661150**	CERAMIC CAPACITOR-CH (CHIP)	15P 50V J RECT.	チップセラ（CH）			
	-112	**US661150**	CERAMIC CAPACITOR-CH (CHIP)	15P 50V J RECT.	チップセラ（CH）			
	C113	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
	C114	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C115	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C116	**US661150**	CERAMIC CAPACITOR-CH (CHIP)	15P 50V J RECT.	チップセラ（CH）			
	C117	**WG888300**	MONOLITHIC CERAMIC CAP. (CHIP)	10.0 6.3V K TP	チップ積層セラコン			01
	C118	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	-121	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C122	**US661150**	CERAMIC CAPACITOR-CH (CHIP)	15P 50V J RECT.	チップセラ（CH）			
	-136	**US661150**	CERAMIC CAPACITOR-CH (CHIP)	15P 50V J RECT.	チップセラ（CH）			
	C137	**UF03810R**	ELECTROLYTIC CAPACITOR (CHIP)	100 16V	チップケミコン			01
	C138	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C139	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C201	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01
	C202	**UF03810R**	ELECTROLYTIC CAPACITOR (CHIP)	100 16V	チップケミコン			01
	C203	**V8085400**	CERAMIC CAPACITOR-B (CHIP)	0.1000 25V K RECT.	チップセラ（B）			01
	C204	**US625100**	CERAMIC CAPACITOR-BJ (CHIP)	0.100 10V K RECT.	チップセラ（BJ）			01
	C205	**WN562400**	ELECTROLYTIC CAPACITOR (CHIP)	220.00 16.0V	チップケミコン UD			01
	C207	**WP188400**	POLYESTER FILM CAP. (CHIP)	0.0820 100V J	チップフィルムコン			03
	C208	**WF07860R**	MONOLITHIC CERAMIC CAP. (CHIP)	12P 3.15KV J	チップ積層セラコン			01
*	CN101	**WT729200**	CONNECTOR BASE POST	SHLD 20P SE	コネクタベースポスト			
	CN102	**WN459800**	FFC CONNECTOR	6240 32P SE	FFCコネクター			02
	CN151	**V900600R**	FFC CONNECTOR	52207 9P SE	FFCコネクター			03
	CN152	**VZ24920R**	CONNECTOR	52207-0885 8P	コネクター			02
	CN202	**V2915800**	CONNECTOR	PH 4P SE	ベース付ポスト			01
	CN203	**WE260900**	BH CONNECTOR	BH 2P SE	BHコネクター			03
	CN251	**V900600R**	FFC CONNECTOR	52207 9P SE	FFCコネクター			03
	D151	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
	-156	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
	D251	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
	-258	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
*	IC101	**YC492A00**	IC	FIN1216MTDX	IC	LVDS SERIALIZER/DE-SERIALIZER		
	IC102	**X7550A00**	IC	SN74LVC1GU04DCKR	IC	INVERTER		02

✻: New Parts

RANK: Japan only

LCL/LCR and MICVR/PNL/PNLS

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
*	L101	**WT761600**	CHIP COIL	DLW31SN222SQ2 32	チップチョークコイル			
	L102	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
*	L103	**WT761600**	CHIP COIL	DLW31SN222SQ2 32	チップチョークコイル			
*	-105	**WT761600**	CHIP COIL	DLW31SN222SQ2 32	チップチョークコイル			
	L106	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
	-108	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
	L109	**WP372900**	CHIP INDUCTANCE	BLM18BB471SN1D	チップインダクタ			01
	L153	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
	-160	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
	L203	**WN556100**	COIL	CDH74NP-181JC	コイル			02
	L251	**WH559500**	CHIP INDUCTANCE	BLM18PG471SN1D	チップインダクタ			01
	R101	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
*	R102	**RA154470**	METAL FILM RESISTOR (CHIP)	47.0 63M D RECT.	チップ金被抵抗			
*	-109	**RA154470**	METAL FILM RESISTOR (CHIP)	47.0 63M D RECT.	チップ金被抵抗			
	R110	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	-113	**RD45427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
	R114	**RD455100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
	-116	**RD455100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
	R118	**RD455100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
	R119	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R120	**RD455100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
	-135	**RD455100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
	R136	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R138	**RD455100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
	R151	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	-154	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R202	**RD45000R**	CARBON RESISTOR (CHIP)	0.00 63M J RECT.	チップ抵抗			01
	R203	**RD457100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R204	**RD150000**	CARBON RESISTOR (CHIP)	0.0 1/4 J TP	チップ抵抗			01
	R205	**RD15612R**	CARBON RESISTOR (CHIP)	1.2K 1/4 J TP	チップ抵抗			
	R206	**RD150000**	CARBON RESISTOR (CHIP)	0.0 1/4 J TP	チップ抵抗			01
	R207	**RD15510R**	CARBON RESISTOR (CHIP)	100.0 1/4 J TP	チップ抵抗			01
	SW151	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	A		01
	SW152	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	B		01
	SW153	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	C		01
	SW154	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	D		01
	SW155	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	E		01
	SW156	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	DIRECT ACCESS		01
	SW251	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	TAB ◁		01
	SW252	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	TAB ▷		01
	SW253	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	F		01
	SW254	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	G		01
	SW255	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	H		01
	SW256	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	I		01
	SW257	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	J		01
	SW258	**VU435300**	TACT SWITCH	SKHMQKE010	タクトSW	EXIT		01
	T201	**WB485100**	INVERTER TRANSFORMER	CIOH175	インバータトランス			06
	TR201	**VY67760R**	DIGITAL TRANSISTOR	DTC123JKA TP	デジタルトランジスタ			01
	TR202	**VV655000**	DIGITAL TRANSISTOR	DTA114EKA TP	デジタルトランジスタ			01
	TR203	**V906580R**	TRANSISTOR	2SC4672 T100 P P	トランジスタ 2SC			01
	TR204	**V906580R**	TRANSISTOR	2SC4672 T100 P P	トランジスタ 2SC			01
*		**WT902700**	CIRCUIT BOARD	MICVR	MICVRシート	(WT90240)(YC487C0)		
*		**WT902500**	CIRCUIT BOARD	PNL	PNLシート	(WT90240)(YC487C0)		
*		**WT902600**	CIRCUIT BOARD	PNLS	PNLSシート	(WT90240)(YC487C0)		
	70	**V964210R**	LED SPACER	LH-5-9.5	LEDスペーサー		6	01
	C1	**US062470**	CERAMIC CAPACITOR-SL (CHIP)	470P 50V J RECT.	チップセラ(SL)			01
	-16	**US062470**	CERAMIC CAPACITOR-SL (CHIP)	470P 50V J RECT.	チップセラ(SL)			01
	C17	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ(B)			01
	C18	**UF037100**	ELECTROLYTIC CAPACITOR (CHIP)	10 16V	チップケミコン			01
	C19	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ(B)			01
	C20	**UF037100**	ELECTROLYTIC CAPACITOR (CHIP)	10 16V	チップケミコン			01
	C21	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ(F)			01
	C22	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ(B)			01
	C23	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ(B)			01
	C24	**UF037100**	ELECTROLYTIC CAPACITOR (CHIP)	10 16V	チップケミコン			01
	C25	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ(B)			01
	C26	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ(F)			01
	C27	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ(F)			01
	C28	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ(B)			01

*: New Parts

RANK: Japan only

MICVR/PNL/PNLS

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
C29	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
C30	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
C31	**US061330**	CERAMIC CAPACITOR-CH (CHIP)	33P 50V J RECT.	チップセラ（CH）			01
C32	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
C33	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
C34	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
C35	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
C36	**US061330**	CERAMIC CAPACITOR-CH (CHIP)	33P 50V J RECT.	チップセラ（CH）			01
C37	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
C38	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
C39	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
C40	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
C41	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
C42	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
C43	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
C44	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
C45	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
C46	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
C47	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
C48	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
C49	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
C50	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
C51	**US06168R**	CERAMIC CAPACITOR-SL (CHIP)	68P 50V J RECT.	チップセラ（SL）			01
C53	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
C55	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
C56	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
C58	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
C60	**US06168R**	CERAMIC CAPACITOR-SL (CHIP)	68P 50V J RECT.	チップセラ（SL）			01
C62	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
C69	**UF03810R**	ELECTROLYTIC CAPACITOR (CHIP)	100 16V	チップケミコン			01
C70	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
C74	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
C77	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
C79	**US06168R**	CERAMIC CAPACITOR-SL (CHIP)	68P 50V J RECT.	チップセラ（SL）			01
C80	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
C82	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
C84	**US061330**	CERAMIC CAPACITOR-CH (CHIP)	33P 50V J RECT.	チップセラ（CH）			01
C85	**US061330**	CERAMIC CAPACITOR-CH (CHIP)	33P 50V J RECT.	チップセラ（CH）			01
C301	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
CN1	**VB39060R**	CONNECTOR BASE POST	PH 10P TE	ベースポスト			01
CN2	**WF45040R**	FFC CONNECTOR	52807 8P SE	FFCコネクター			01
CN3	**LB933020**	CONNECTOR BASE POST	VH 2P SE	ベースポスト			01
CN4	**VK015400**	CONNECTOR BASE POST	PH 13P SE	ベースポスト			01
CN6	**VB39000R**	CONNECTOR BASE POST	PH 4P TE	ベースポスト			01
CN202	**VB85890R**	CONNECTOR BASE POST	PH 10P SE	ベースポスト			01
CN301	**VB858700**	CONNECTOR BASE POST	PH 8P SE	ベースポスト			01
CN302	**VB858300**	CONNECTOR BASE POST	PH 4P SE	ベースポスト			01
D1	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
D14	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
-88	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
D201	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
-204	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
IC1	**XZ916300**	IC	UPD780031AYGK-N09-9ET-A	IC	E-PNS2a LED/SWITCH DRIVER		05
IC2	**X5646201**	IC	M34519M6-521FP W4	IC	LSC (CPLD)		04
IC3	**X5646201**	IC	M34519M6-521FP W4	IC	LSC (CPLD)		04
L1	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
L2	**V584810R**	CHIP INDUCTANCE	56uH ELJFC560JF	巻線チップインダクタ			01
L3	**V8901200**	CHIP SOLID INDUCTANCE	BLM21PG221SN1D	チップソリッドインダ			01
L4	**V584810R**	CHIP INDUCTANCE	56uH ELJFC560JF	巻線チップインダクタ			01
-6	**V584810R**	CHIP INDUCTANCE	56uH ELJFC560JF	巻線チップインダクタ			01
L7	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01
-14	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01
LD1	**VG19760R**	LED YELLOW-GREEN/RED	GL3ED8	2色LED	SIGNAL		01
LD2	**WM469900**	LED GREEN	HFG223P-BW14	LED	FADE IN/OUT		01
LD3	**WM469900**	LED GREEN	HFG223P-BW14	LED	STYLE (POP & ROCK)		01
LD4	**WM469900**	LED GREEN	HFG223P-BW14	LED	STYLE (LATIN)		01
LD5	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CONTROL (ACMP)		01
LD6	**WM469900**	LED GREEN	HFG223P-BW14	LED	STYLE (BALLAD)		01
LD7	**WM469900**	LED GREEN	HFG223P-BW14	LED	STYLE (BALLROOM)		01
LD8	**WM469900**	LED GREEN	HFG223P-BW14	LED	MIC (EFFECT)		01

✻: New Parts

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MICVR/PNL/PNLS

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	LD9	**WM469900**	LED GREEN	HFG223P-BW14	LED	STYLE (DANCE)		01
	LD10	**WM469900**	LED GREEN	HFG223P-BW14	LED	STYLE (MOVIE & SHOW)		01
	LD11	**WN414500**	LED	HFR8239P(P1D2)-BW1	LED	STYLE CONTROL (OTS LINK)		01
*	LD12	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	STYLE CONTROL (INTRO I)		
	LD13	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CONTROL (INTRO I)		01
*	LD14	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	STYLE CONTROL (INTRO II)		
	LD15	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CONTROL (INTRO II)		01
*	LD16	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	STYLE CTRL.(MAIN VARIATION A)		
	LD17	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CTRL.(MAIN VARIATION A)		01
	LD18	**WM469900**	LED GREEN	HFG223P-BW14	LED	STYLE (SWING & JAZZ)		01
	LD19	**WM469900**	LED GREEN	HFG223P-BW14	LED	STYLE (ENTERTAINER)		01
	LD20	**WN414500**	LED	HFR8239P(P1D2)-BW1	LED	STYLE CONTROL (AUTO FILL IN)		01
*	LD21	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	STYLE CONTROL (INTRO III)		
	LD22	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CONTROL (INTRO III)		01
*	LD23	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	STYLE CTRL.(MAIN VARIATION C)		
	LD24	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CTRL.(MAIN VARIATION C)		01
	LD25	**WM469900**	LED GREEN	HFG223P-BW14	LED	STYLE (R & B)		01
	LD26	**WM469900**	LED GREEN	HFG223P-BW14	LED	STYLE (WORLD)		01
*	LD27	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	STYLE CTRL.(MAIN VARIATION B)		
	LD28	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CTRL.(MAIN VARIATION B)		01
*	LD29	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	STYLE CTRL.(MAIN VARIATION D)		
	LD30	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CTRL.(MAIN VARIATION D)		01
*	LD31	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	STYLE CONTROL (BREAK)		
	LD32	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CONTROL (BREAK)		01
	LD33	**WM469900**	LED GREEN	HFG223P-BW14	LED	STYLE (COUNTRY)		01
	LD34	**WM469900**	LED GREEN	HFG223P-BW14N	LED	STYLE (FILE ACCESS)		01
*	LD35	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	STYLE CTRL.(ENDING/rit. I)		
	LD36	**WF300900**	LED (CHIP) ORANGE	SML-512DWE	チップLED	STYLE CTRL.(ENDING/rit. I)		01
	LD37	**WM469900**	LED GREEN	HFG223P-BW14	LED	SONG (LOOP)		01
	LD38	**WM469900**	LED GREEN	HFG223P-BW14	LED	MIC (VOCAL HARMONY)		01
*	LD39	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	STYLE CTRL.(ENDING/rit. II)		
	LD40	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CTRL.(ENDING/rit. II)		01
	LD41	**WN414500**	LED	HFR8239P(P1D2)-BW1	LED	SONG (REC)		01
	LD42	**WN414500**	LED	HFR8239P(P1D2)-BW1	LED	SONG (METRONOME)		01
*	LD43	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	MULTI PAD CONTROL (1)		
	LD44	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	MULTI PAD CONTROL (1)		01
	LD45	**WM469900**	LED GREEN	HFG223P-BW14	LED	MIC (TALK)		01
*	LD46	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	MULTI PAD CONTROL (2)		
	LD47	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	MULTI PAD CONTROL (2)		01
*	LD48	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	STYLE CTRL.(ENDING/rit. III)		
	LD49	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CTRL.(ENDING/rit. III)		01
	LD50	**WM469900**	LED GREEN	HFG223P-BW14	LED	SONG (I)		01
	LD51	**WM469900**	LED GREEN	HFG223P-BW14	LED	SONG (III)		01
	LD52	**WM469900**	LED GREEN	HFG223P-BW14	LED	SONG (II)		01
	LD53	**WM469900**	LED GREEN	HFG223P-BW14	LED	SONG (IV)		01
*	LD54	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	MULTI PAD CONTROL (3)		
	LD55	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	MULTI PAD CONTROL (3)		01
	LD56	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CONTROL (SYNC STOP)		01
	LD57	**VG19760R**	LED YELLOW-GREEN/RED	GL3ED8	2色LED	SONG (PLAY/PAUSE)		01
*	LD58	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	MULTI PAD CONTROL (4)		
	LD59	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	MULTI PAD CONTROL (4)		01
	LD60	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CONTROL (SYNK START)		01
	LD61	**VG19760R**	LED YELLOW-GREEN/RED	GL3ED8	2色LED	SONG (SP 1)		01
	LD62	**VG19760R**	LED YELLOW-GREEN/RED	GL3ED8	2色LED	SONG (SP 3)		01
*	LD63	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	STYLE CONTROL (START/STOP)		
	LD64	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	STYLE CONTROL (START/STOP)		01
	LD65	**VG19760R**	LED YELLOW-GREEN/RED	GL3ED8	2色LED	SONG (SP 2)		01
	LD66	**VG19760R**	LED YELLOW-GREEN/RED	GL3ED8	2色LED	SONG (SP 4)		01
*	LD201	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	ART. 1		
	LD202	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	ART. 1		01
*	LD203	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	ART. 2		
	LD204	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	ART. 2		01
	R13	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	-24	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R29	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	-37	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R38	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
	R39	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
	R40	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
	R41	**RD15447R**	CARBON RESISTOR (CHIP)	47.0 1/4 J TP	チップ抵抗			01

*: New Parts

RANK: Japan only

MICVR/PNL/PNLS

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
-47	**RD15447R**	CARBON RESISTOR (CHIP)	47.0 1/4 J TP	チップ抵抗			01
R48	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
-66	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R67	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R68	**RD356680**	CARBON RESISTOR (CHIP)	6.8K 63M J RECT.	チップ抵抗			01
R69	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
-75	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R76	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-79	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R80	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
-91	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R92	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R93	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R94	**RD356680**	CARBON RESISTOR (CHIP)	6.8K 63M J RECT.	チップ抵抗			01
R95	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
-101	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R102	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-105	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R106	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
-110	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R113	**RD355680**	CARBON RESISTOR (CHIP)	680.0 63M J RECT.	チップ抵抗			01
R114	**RD355680**	CARBON RESISTOR (CHIP)	680.0 63M J RECT.	チップ抵抗			01
R117	**RD355680**	CARBON RESISTOR (CHIP)	680.0 63M J RECT.	チップ抵抗			01
-149	**RD355680**	CARBON RESISTOR (CHIP)	680.0 63M J RECT.	チップ抵抗			01
R150	**RD35427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R151	**RD35427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R152	**RD355470**	CARBON RESISTOR (CHIP)	470.0 63M J RECT.	チップ抵抗			01
-155	**RD355470**	CARBON RESISTOR (CHIP)	470.0 63M J RECT.	チップ抵抗			01
R156	**RD35427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
-165	**RD35427R**	CARBON RESISTOR (CHIP)	27.0 63M J RECT.	チップ抵抗			01
R166	**RD15510R**	CARBON RESISTOR (CHIP)	100.0 1/4 J TP	チップ抵抗			01
R169	**RD354470**	CARBON RESISTOR (CHIP)	47.0 63M J RECT.	チップ抵抗			01
R170	**RD355120**	CARBON RESISTOR (CHIP)	120.0 63M J RECT.	チップ抵抗			01
R171	**RD355120**	CARBON RESISTOR (CHIP)	120.0 63M J RECT.	チップ抵抗			01
R172	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
-174	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R175	**RD355150**	CARBON RESISTOR (CHIP)	150.0 63M J RECT.	チップ抵抗			01
-179	**RD355150**	CARBON RESISTOR (CHIP)	150.0 63M J RECT.	チップ抵抗			01
R180	**RD355100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
-185	**RD355100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
R186	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R187	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R201	**RD355680**	CARBON RESISTOR (CHIP)	680.0 63M J RECT.	チップ抵抗			01
-204	**RD355680**	CARBON RESISTOR (CHIP)	680.0 63M J RECT.	チップ抵抗			01
R302	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
SW1	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	CHANNEL ON/OFF		01
SW2	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	BALANCE		01
SW3	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	FADE IN/OUT		01
SW4	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE (POP & ROCK)		01
SW5	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE (LATIN)		01
SW6	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	DEMO		01
SW7	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE (BALLAD)		01
SW8	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE (BALLROOM)		01
SW9	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MIC (EFFECT)		01
SW10	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CONTROL (ACMP)		01
SW11	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE (DANCE)		01
SW12	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE (MOVIE & SHOW)		01
SW13	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CONTROL (OTS LINK)		01
SW14	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CONTROL (INTRO I)		01
SW15	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CONTROL (INTRO II)		01
SW16	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE (SWING & JAZZ)		01
SW17	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE (ENTERTAINER)		01
SW18	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CONTROL (TAP TEMPO)		01
SW19	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CONTROL (AUTO FILL IN)		01
SW20	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CONTROL (INTRO III)		01
SW21	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CTRL.(MAIN VARIATION A)		01
SW22	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE (R & B)		01
SW23	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE (WORLD)		01
SW24	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CONTROL (TEMPO –)		01
SW25	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CTRL.(MAIN VARIATION C)		01

✻: New Parts

RANK: Japan only

MICVR/PNL/PNLS and MK61L and MKH-D

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
SW26	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CTRL.(MAIN VARIATION B)		01
SW27	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE (COUNTRY)		01
SW28	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE (FILE ACCESS)		01
SW29	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CONTROL (TEMPO +)		01
SW30	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CTRL.(MAIN VARIATION D)		01
SW31	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CONTROL (BREAK)		01
SW32	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CTRL.(ENDING/rit. I)		01
SW33	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (LOOP)		01
SW34	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	TRANSPOSE –		01
SW35	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MULTI PAD CONTROL (SELECT)		01
SW36	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MIC (VH TYPE SELECT)		01
SW37	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MIC (VOCAL HARMONY)		01
SW38	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CTRL.(ENDING/rit. II)		01
SW39	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (REC)		01
SW40	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (METRONOME)		01
SW41	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MULTI PAD CONTROL (1)		01
SW42	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MIC (MIC SETTING)		01
SW43	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MIC (TALK)		01
SW44	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CTRL.(ENDING/rit. III)		01
SW45	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (I)		01
SW46	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (STOP)		01
SW47	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	TRANSPOSE +		01
SW48	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MULTI PAD CONTROL (2)		01
SW49	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (III)		01
SW50	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (PLAY/PAUSE)		01
SW51	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (LYRICS/TEXT)		01
SW52	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CONTROL (SYNC STOP)		01
SW53	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (II)		01
SW54	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (IV)		01
SW55	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MULTI PAD CONTROL (3)		01
SW56	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (REW)		01
SW57	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MIXING CONSOLE		01
SW58	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CONTROL (SYNK START)		01
SW59	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (SP 1)		01
SW60	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (SP 3)		01
SW61	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MULTI PAD CONTROL (4)		01
SW62	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (FF)		01
SW63	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (SCORE)		01
SW64	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MULTI PAD CONTROL (STOP)		01
SW65	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	STYLE CONTROL (START/STOP)		01
SW66	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (SP 2)		01
SW67	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	SONG (SP 4)		01
SW201	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	UPPER OCTAVE –		01
SW202	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	ART. 1		01
SW203	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	UPPER OCTAVE +		01
SW204	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	ART. 2		01
TR1	**WP575300**	DIGITAL TRANSISTOR	RTGN234AP-T111-1	デジタルトランジスタ			
-6	**WP575300**	DIGITAL TRANSISTOR	RTGN234AP-T111-1	デジタルトランジスタ			
TR7	**WG989900**	DIGITAL TRANSISTOR	KRA226S-RTK/P	デジタルトランジスタ			01
-13	**WG989900**	DIGITAL TRANSISTOR	KRA226S-RTK/P	デジタルトランジスタ			01
TR14	**VY67760R**	DIGITAL TRANSISTOR	DTC123JKA TP	デジタルトランジスタ			01
-52	**VY67760R**	DIGITAL TRANSISTOR	DTC123JKA TP	デジタルトランジスタ			01
VR1	**WN562700**	SLIDE VARIABLE RESISTOR	B 10.0K RS20111A9A	スライドVR	ASSIGN		03
* VR301	**WV984200**	ROTARY VARIABLE RESISTOR	RD 5.0K RK09K1130D	ロータリーVR	MIC GAIN		
VR302	**VT683100**	ROTARY VARIABLE RESISTOR	A 10.0K RK14K12C	二連ロータリーVR	MASTER VOLUME		03
X1	**WM775700**	CERAMIC RESONATOR	8.38MHz CSTCE8M38G55	セラミック振動子			01
	WD80010R	CIRCUIT BOARD	MK61L	シートMK61L	(WD80020)(X6578C0)		08
999	**--**	JUMPER CABLE	0.55 TIN	ジャンパー線	(VA07890)	13	
CN001	**VM689000**	FFC CONNECTOR	52045 23P TE	FFCコネクター			02
CN002	**VB858200**	CONNECTOR BASE POST	PH 3P SE	ベースポスト			01
D0001	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
-75	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
	WD80100R	CIRCUIT BOARD	MKH-D	MKH－Dシート	(WD78570)(X6579B0)		15
	WE623100	CIRCUIT BOARD	EMKS-FD (E-BUS)	EMKS－FDシート			12
CN002	**WK372800**	FFC CONNECTOR	5597 3P SE	FFC用コネクター			01
CN004	**VM689000**	FFC CONNECTOR	52045 23P TE	FFCコネクター			02
CN005	**VB858200**	CONNECTOR BASE POST	PH 3P SE	ベースポスト			01
D0001	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01

*: New Parts

RANK: Japan only

MKH-D and EMKS-FD and PNR/USB

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
-48	**VB941200**	DIODE	1SS133,1SS176 TE-5	ダイオード			01
	WE623100	CIRCUIT BOARD	EMKS-FD (E-BUS) on MKH-D	EMKS-FDシート	(WE62270)(X6577A0)		12
	--	PC SUPPORT	JIS R33 T=5	基板サポート	(WB72300)		
C0005	**US135100**	CERAMIC CAPACITOR-F (CHIP)	0.1000 16V Z RECT.	チップセラ（F）			01
C0009	**UF118470**	ELECTROLYTIC CAPACITOR (CHIP)	470 6.3V	チップケミコン			01
C0011	**US135100**	CERAMIC CAPACITOR-F (CHIP)	0.1000 16V Z RECT.	チップセラ（F）			01
C0021	**UF01747R**	ELECTROLYTIC CAPACITOR (CHIP)	47 6.3V	チップケミコン			01
C0022	**US135100**	CERAMIC CAPACITOR-F (CHIP)	0.1000 16V Z RECT.	チップセラ（F）			01
C0023	**US135100**	CERAMIC CAPACITOR-F (CHIP)	0.1000 16V Z RECT.	チップセラ（F）			01
C0027	**US135100**	CERAMIC CAPACITOR-F (CHIP)	0.1000 16V Z RECT.	チップセラ（F）			01
C0028	**US135100**	CERAMIC CAPACITOR-F (CHIP)	0.1000 16V Z RECT.	チップセラ（F）			01
C0029	**UF01747R**	ELECTROLYTIC CAPACITOR (CHIP)	47 6.3V	チップケミコン			01
C0030	**US135100**	CERAMIC CAPACITOR-F (CHIP)	0.1000 16V Z RECT.	チップセラ（F）			01
C0031	**UF018100**	ELECTROLYTIC CAPACITOR (CHIP)	100 6.3V	チップケミコン			01
C0032	**US135100**	CERAMIC CAPACITOR-F (CHIP)	0.1000 16V Z RECT.	チップセラ（F）			01
C0033	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
C0034	**US135100**	CERAMIC CAPACITOR-F (CHIP)	0.1000 16V Z RECT.	チップセラ（F）			01
C0035	**US062100**	CERAMIC CAPACITOR-SL (CHIP)	100P 50V J RECT.	チップセラ（SL）			01
-45	**US062100**	CERAMIC CAPACITOR-SL (CHIP)	100P 50V J RECT.	チップセラ（SL）			01
C0046	**US061330**	CERAMIC CAPACITOR-CH (CHIP)	33P 50V J RECT.	チップセラ（CH）			01
C0047	**US061330**	CERAMIC CAPACITOR-CH (CHIP)	33P 50V J RECT.	チップセラ（CH）			01
CN004	**VT388800**	CONNECTOR	PH 7P TE	ベース付ポスト			
CN005	**WB24980R**	TERMINAL	20P GPFA105-2002A0	中継ターミナル			04
CN006	**WE62140R**	TERMINAL	10P GPFA105-1002A0	中継ターミナル			02
D0001	**VV92590R**	DIODE	RLS-73 TE-11 TP	ダイオード			01
-6	**VV92590R**	DIODE	RLS-73 TE-11 TP	ダイオード			01
D0008	**VV92590R**	DIODE	RLS-73 TE-11 TP	ダイオード			01
IC002	**X2538A00**	IC	NJM2100V(TE2)	IC	OP AMP		02
IC005	**X480120R**	IC	HD6433693B14HV	IC	E-VKS		05
L0002	**V584810R**	CHIP INDUCTANCE	56uH ELJFC560JF	巻線チップインダクタ			01
L0003	**VR57990R**	CHIP INDUCTANCE	BK2125 HS601-T	チップインダクタ			01
L0004	**VR57990R**	CHIP INDUCTANCE	BK2125 HS601-T	チップインダクタ			01
R0009	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R0010	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R0011	**RD355150**	CARBON RESISTOR (CHIP)	150.0 63M J RECT.	チップ抵抗			01
R0012	**RD356680**	CARBON RESISTOR (CHIP)	6.8K 63M J RECT.	チップ抵抗			01
R0013	**RD355150**	CARBON RESISTOR (CHIP)	150.0 63M J RECT.	チップ抵抗			01
R0014	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R0015	**RD355150**	CARBON RESISTOR (CHIP)	150.0 63M J RECT.	チップ抵抗			01
R0016	**RD357220**	CARBON RESISTOR (CHIP)	22.0K 63M J RECT.	チップ抵抗			01
R0017	**RD35747R**	CARBON RESISTOR (CHIP)	47.0K 63M J RECT.	チップ抵抗			01
R0018	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R0019	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R0020	**RD354470**	CARBON RESISTOR (CHIP)	47.0 63M J RECT.	チップ抵抗			01
R0021	**RD354470**	CARBON RESISTOR (CHIP)	47.0 63M J RECT.	チップ抵抗			01
R0022	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R0025	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R0030	**RD357330**	CARBON RESISTOR (CHIP)	33.0K 63M J RECT.	チップ抵抗			01
-41	**RD357330**	CARBON RESISTOR (CHIP)	33.0K 63M J RECT.	チップ抵抗			01
R0043	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
R0046	**RD354470**	CARBON RESISTOR (CHIP)	47.0 63M J RECT.	チップ抵抗			01
R0047	**RD354470**	CARBON RESISTOR (CHIP)	47.0 63M J RECT.	チップ抵抗			01
VR001	**VA788700**	PRE-SET POTENTIOMETER	B 470.0K FUSE 3P	半固定VR			01
VR001	**WM950000**	TRIMMER POTENTIOMETER	B 470.0K FUSE 3P	半固定VR			01
✻ VR001	**WS613600**	TRIMMER POTENTIOMETER	B 470K FUSE 3P VZ0	半固定VR			
VR002	**VA78860R**	TRIMMER POTENTIOMETER	B 330.0K FUSE 3P	半固定VR			01
VR002	**WM949900**	TRIMMER POTENTIOMETER	B 330.0K FUSE 3P	半固定VR			01
✻ VR002	**WS613500**	TRIMMER POTENTIOMETER	B 330K FUSE 3P VZ0	半固定VR			
X0001	**V458460R**	CERAMIC RESONATOR	20MHz CSTCV20M0X51J-R0	セラミック振動子			01
✻	**WT903200**	CIRCUIT BOARD	PNR	PNRシート	(WT90310)(YC488C0)		
✻	**WT903300**	CIRCUIT BOARD	USB	USBシート	(WT90310)(YC488C0)		
C1	**US062470**	CERAMIC CAPACITOR-SL (CHIP)	470P 50V J RECT.	チップセラ（SL）			01
-15	**US062470**	CERAMIC CAPACITOR-SL (CHIP)	470P 50V J RECT.	チップセラ（SL）			01
C16	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
C17	**UF037100**	ELECTROLYTIC CAPACITOR (CHIP)	10 16V	チップケミコン			01
C18	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
C19	**UF037100**	ELECTROLYTIC CAPACITOR (CHIP)	10 16V	チップケミコン			01
C20	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01

✻: New Parts

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	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	-23	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
	C24	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
	C25	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
	C26	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
	C27	**UF037100**	ELECTROLYTIC CAPACITOR (CHIP)	10 16V	チップケミコン			01
	C28	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
	C29	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
	C30	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
	C31	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
	C32	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
	C33	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
	C34	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
	C35	**US061330**	CERAMIC CAPACITOR-CH (CHIP)	33P 50V J RECT.	チップセラ（CH）			01
	C36	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
	C37	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
	C38	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
	C39	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
	C40	**US061330**	CERAMIC CAPACITOR-CH (CHIP)	33P 50V J RECT.	チップセラ（CH）			01
	C41	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
	C42	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
	C43	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
	C44	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
	C45	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
	C46	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
	C47	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
	C48	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
	C49	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
	C50	**US064100**	CERAMIC CAPACITOR-B (CHIP)	0.0100 50V K RECT.	チップセラ（B）			01
	C51	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
	C52	**US06168R**	CERAMIC CAPACITOR-SL (CHIP)	68P 50V J RECT.	チップセラ（SL）			01
	C55	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
	C59	**UF11822R**	ELECTROLYTIC CAPACITOR (CHIP)	220 6.3V	チップケミコン			01
	C61	**US06168R**	CERAMIC CAPACITOR-SL (CHIP)	68P 50V J RECT.	チップセラ（SL）			01
	C64	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
	C69	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
	C72	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
	C79	**US06168R**	CERAMIC CAPACITOR-SL (CHIP)	68P 50V J RECT.	チップセラ（SL）			01
	C80	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
	C81	**US061330**	CERAMIC CAPACITOR-CH (CHIP)	33P 50V J RECT.	チップセラ（CH）			01
	C82	**US061330**	CERAMIC CAPACITOR-CH (CHIP)	33P 50V J RECT.	チップセラ（CH）			01
	C201	**US14510R**	CERAMIC CAPACITOR-F (CHIP)	0.1000 25V Z RECT.	チップセラ（F）			01
	CN1	**WA17860R**	FFC CONNECTOR	52806-2210 22PIN	FFCコネクター			01
	CN2	**VK015400**	CONNECTOR BASE POST	PH 13P SE	ベースポスト			01
	CN4	**VB858600**	CONNECTOR BASE POST	PH 7P SE	ベースポスト			01
	CN201	**VB858500**	CONNECTOR BASE POST	PH 6P SE	ベースポスト			01
	CN202	**WK450700**	USB CONNECTOR	YKF45-0033N 4P SE	USBコネクタ	USB TO DEVICE		
	D1	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
	D2	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
	D15	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
	-81	**WG139300**	DIODE	KDS4148U-RTK/P	ダイオード			
	EM201	**WE94560R**	EMI FILTER (CHIP)	NFM21CC223R1H3D	エミフィルチップ			01
	IC1	**XZ916300**	IC	UPD780031AYGK-N09-9ET-A	IC	E-PNS2a LED/SWITCH DRIVER		05
	IC2	**X5646201**	IC	M34519M6-521FP W4	IC	LSC (CPLD)		04
	IC3	**X5646201**	IC	M34519M6-521FP W4	IC	LSC (CPLD)		04
	L1	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	-4	**GE300670**	FERRITE BEAD	BL02RN2R1P1A	フェライトビーズ			02
	L201	**VY65720R**	CHIP INDUCTANCE	600 BK1608HM601-T	チップインダクタ			01
	L202	**WG834800**	COIL FIXED	DLW21HN900SQ2L	コイル			01
*	LD1	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	REGISTRATION MEMORY (1)		
	LD2	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	REGISTRATION MEMORY (1)		01
*	LD3	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	REGISTRATION MEMORY (7)		
	LD4	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	REGISTRATION MEMORY (7)		01
*	LD5	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	REGISTRATION MEMORY (2)		
	LD6	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	REGISTRATION MEMORY (2)		01
*	LD7	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	REGISTRATION MEMORY (8)		
	LD8	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップLED	REGISTRATION MEMORY (8)		01
	LD9	**WK279100**	LED (CHIP) WHITE	SMLE12WBC7W	チップLED	MUSIC FINDER		
	LD10	**WN414500**	LED	HFR8239P(P1D2)-BW1	LED	AUDIO RECORDER/PLAYER (REC)		01
	LD11	**WN414500**	LED	HFR8239P(P1D2)-BW1	LED	REGIST.MEMORY (FREEZE)		01
*	LD12	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップLED	REGISTRATION MEMORY (3)		

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	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	LD13	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップ LED	REGISTRATION MEMORY (3)		01
	LD14	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (PIANO)		01
	LD15	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (GUITAR)		01
*	LD16	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップ LED	REGISTRATION MEMORY (4)		
	LD17	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップ LED	REGISTRATION MEMORY (4)		01
	LD18	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (E.PIANO)		01
	LD19	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (BASS)		01
*	LD20	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップ LED	ONE TOUCH SETTING (1)		
	LD21	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップ LED	ONE TOUCH SETTING (1)		01
*	LD22	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップ LED	REGISTRATION MEMORY (5)		
	LD23	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップ LED	REGISTRATION MEMORY (5)		01
	LD24	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (ORGAN)		01
	LD25	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (PERC./DRUM KIT)		01
*	LD26	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップ LED	ONE TOUCH SETTING (2)		
	LD27	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップ LED	ONE TOUCH SETTING (2)		01
*	LD28	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップ LED	REGISTRATION MEMORY (6)		
	LD29	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップ LED	REGISTRATION MEMORY (6)		01
	LD30	**WM469900**	LED GREEN	HFG223P-BW14	LED	READ/WRITE		01
	LD31	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE EFFECT (HARMONY/ECHO)		01
	LD32	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (STRINGS)		01
	LD33	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (ACCORDION)		01
*	LD34	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップ LED	ONE TOUCH SETTING (3)		
	LD35	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップ LED	ONE TOUCH SETTING (3)		01
	LD36	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE EFFECT (INITIAL TOUCH)		01
	LD37	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (CHOIR)		01
	LD38	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (PAD)		01
*	LD39	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップ LED	ONE TOUCH SETTING (4)		
	LD40	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップ LED	ONE TOUCH SETTING (4)		01
	LD41	**WM470100**	LED AMBER	HFY123P-BW14	LED	AUDIO REC./PLAY.(PLAY/PAUSE)		01
	LD42	**WM469900**	LED GREEN	HFG223P-BW14	LED	PART ON/OFF (LEFT HOLD)		01
	LD43	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE EFFECT (SUSTAIN)		01
	LD44	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (BRASS)		01
	LD45	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (SYNTH)		01
*	LD46	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップ LED	PART SELECT (LEFT)		
	LD47	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップ LED	PART ON/OFF (LEFT)		01
	LD48	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE EFFECT (MONO)		01
	LD49	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (TRUMPET)		01
	LD50	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (ORGAN FLUTES)		01
*	LD51	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップ LED	PART SELECT (RIGHT 1)		
	LD52	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップ LED	PART ON/OFF (RIGHT 1)		01
	LD53	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE EFFECT (DSP.....)		01
	LD54	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (SAXOPHONE)		01
	LD55	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (EXPANSION)		01
*	LD56	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップ LED	PART SELECT (RIGHT 2)		
	LD57	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップ LED	PART ON/OFF (RIGHT 2)		01
	LD58	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE EFFECT (VARIATION)		01
	LD59	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (FLUTE/CLARINET)		01
	LD60	**WM469900**	LED GREEN	HFG223P-BW14	LED	VOICE (USER DRIVE)		01
*	LD61	**WV217100**	LED (CHIP) BLUE	QSMR-C13S	チップ LED	PART SELECT (RIGHT 3)		
	LD62	**WF300900**	LED (CHIP) ORANGE	SML-512DW	チップ LED	PART ON/OFF (RIGHT 3)		01
	R13	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	-24	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R28	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	-35	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R36	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
	R37	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
	-45	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
	R46	**RD15447R**	CARBON RESISTOR (CHIP)	47.0 1/4 J TP	チップ抵抗			01
	-51	**RD15447R**	CARBON RESISTOR (CHIP)	47.0 1/4 J TP	チップ抵抗			01
	R52	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	-66	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R67	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01
	R68	**RD356680**	CARBON RESISTOR (CHIP)	6.8K 63M J RECT.	チップ抵抗			01
	R69	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	-79	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R80	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	-83	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
	R84	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	-96	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
	R97	**RD356100**	CARBON RESISTOR (CHIP)	1.0K 63M J RECT.	チップ抵抗			01

*: New Parts

RANK: Japan only

PNR/USB

REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
R98	**RD356680**	CARBON RESISTOR (CHIP)	6.8K 63M J RECT.	チップ抵抗			01
R99	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
-105	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R106	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
-109	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R110	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
-114	**RD357100**	CARBON RESISTOR (CHIP)	10.0K 63M J RECT.	チップ抵抗			01
R115	**RD355680**	CARBON RESISTOR (CHIP)	680.0 63M J RECT.	チップ抵抗			01
-146	**RD355680**	CARBON RESISTOR (CHIP)	680.0 63M J RECT.	チップ抵抗			01
R147	**RD355470**	CARBON RESISTOR (CHIP)	470.0 63M J RECT.	チップ抵抗			01
R148	**RD355470**	CARBON RESISTOR (CHIP)	470.0 63M J RECT.	チップ抵抗			01
R149	**RD355150**	CARBON RESISTOR (CHIP)	150.0 63M J RECT.	チップ抵抗			01
R150	**RD35422R**	CARBON RESISTOR (CHIP)	22.0 63M J RECT.	チップ抵抗			01
R155	**RD355220**	CARBON RESISTOR (CHIP)	220.0 63M J RECT.	チップ抵抗			01
R156	**RD355100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
-159	**RD355100**	CARBON RESISTOR (CHIP)	100.0 63M J RECT.	チップ抵抗			01
R160	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
-172	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R173	**RD354470**	CARBON RESISTOR (CHIP)	47.0 63M J RECT.	チップ抵抗			01
R174	**RD355120**	CARBON RESISTOR (CHIP)	120.0 63M J RECT.	チップ抵抗			01
R175	**RD355120**	CARBON RESISTOR (CHIP)	120.0 63M J RECT.	チップ抵抗			01
R176	**RD35410R**	CARBON RESISTOR (CHIP)	10.0 63M J RECT.	チップ抵抗			01
R177	**RD35410R**	CARBON RESISTOR (CHIP)	10.0 63M J RECT.	チップ抵抗			01
R178	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
-180	**RD350001**	CARBON RESISTOR (CHIP)	0 63M J RECT.	チップ抵抗			01
R181	**RD355150**	CARBON RESISTOR (CHIP)	150.0 63M J RECT.	チップ抵抗			01
-185	**RD355150**	CARBON RESISTOR (CHIP)	150.0 63M J RECT.	チップ抵抗			01
R186	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
R187	**RD354680**	CARBON RESISTOR (CHIP)	68.0 63M J RECT.	チップ抵抗			01
SW1	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MENU (VOICE CREATOR)		01
SW2	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MENU (FUNCTION)		01
SW3	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	REGIST.MEMORY (REGIST BANK –)		01
SW4	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	REGISTRATION MEMORY (1)		01
SW5	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	REGISTRATION MEMORY (7)		01
SW6	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MENU (DIGITAL RECORDING)		01
SW7	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	INTERNET		01
SW8	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	REGIST.MEMORY (REGIST BANK +)		01
SW9	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	REGISTRATION MEMORY (2)		01
SW10	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	REGISTRATION MEMORY (8)		01
SW11	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	AUDIO RECORDER/PLAYER (REC)		01
SW12	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	MUSIC FINDER		01
SW13	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	REGIST.MEMORY (FREEZE)		01
SW14	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	REGISTRATION MEMORY (3)		01
SW15	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (PIANO)		01
SW16	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (GUITAR)		01
SW17	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	REGISTRATION MEMORY (4)		01
SW18	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	REGIST.MEMORY (MEMORY)		01
SW19	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (E.PIANO)		01
SW20	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (BASS)		01
SW21	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	ONE TOUCH SETTING (1)		01
SW22	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	REGISTRATION MEMORY (5)		01
SW23	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (ORGAN)		01
SW24	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (PERC./DRUM KIT)		01
SW25	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	ONE TOUCH SETTING (2)		01
SW26	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	REGISTRATION MEMORY (6)		01
SW27	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE EFFECT (HARMONY/ECHO)		01
SW28	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (STRINGS)		01
SW29	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (ACCORDION)		01
SW30	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	ONE TOUCH SETTING (3)		01
SW31	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	AUDIO RECORDER/PLAYER (PREV)		01
SW32	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE EFFECT (INITIAL TOUCH)		01
SW33	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (CHOIR)		01
SW34	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (PAD)		01
SW35	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	ONE TOUCH SETTING (4)		01
SW36	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	PART ON/OFF (LEFT HOLD)		01
SW37	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	AUDIO REC./PLAY.(PLAY/PAUSE)		01
SW38	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE EFFECT (SUSTAIN)		01
SW39	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (BRASS)		01
SW40	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (SYNTH)		01
SW41	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	PART SELECT (LEFT)		01

✻: New Parts

RANK: Japan only

PNR/USB

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
	SW42	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	PART ON/OFF (LEFT)		01
	SW43	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	AUDIO RECORDER/PLAYER (STOP)		01
	SW44	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE EFFECT (MONO)		01
	SW45	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (TRUMPET)		01
	SW46	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (ORGAN FLUTES)		01
	SW47	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	PART SELECT (RIGHT 1)		01
	SW48	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	PART ON/OFF (RIGHT 1)		01
	SW49	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	AUDIO RECORDER/PLAYER (NEXT)		01
	SW50	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE EFFECT (DSP.....)		01
	SW51	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (SAXOPHONE)		01
	SW52	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (EXPANSION)		01
	SW53	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	PART SELECT (RIGHT 2)		01
	SW54	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	PART ON/OFF (RIGHT 2)		01
	SW55	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	AUDIO REC./PLAYER (SETTING)		01
	SW56	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE EFFECT (VARIATION)		01
	SW57	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (FLUTE/CLARINET)		01
	SW58	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	VOICE (USER DRIVE)		01
	SW59	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	PART SELECT (RIGHT 3)		01
	SW60	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	PART ON/OFF (RIGHT 3)		01
	SW61	**WG31840R**	TACT SWITCH	SKRGAMD010	タクトSW	AUDIO REC./PLAYER (SELECT)		01
	TR1	**WP575300**	DIGITAL TRANSISTOR	RTGN234AP-T111-1	デジタルトランジスタ			
	-6	**WP575300**	DIGITAL TRANSISTOR	RTGN234AP-T111-1	デジタルトランジスタ			
	TR7	**VY67760R**	DIGITAL TRANSISTOR	DTC123JKA TP	デジタルトランジスタ			01
	TR8	**WG989900**	DIGITAL TRANSISTOR	KRA226S-RTK/P	デジタルトランジスタ			01
	-13	**WG989900**	DIGITAL TRANSISTOR	KRA226S-RTK/P	デジタルトランジスタ			01
	TR14	**VY67760R**	DIGITAL TRANSISTOR	DTC123JKA TP	デジタルトランジスタ			01
	-45	**VY67760R**	DIGITAL TRANSISTOR	DTC123JKA TP	デジタルトランジスタ			01
	X1	**WM775700**	CERAMIC RESONATOR	8.38MHz CSTCE8M38G55	セラミック振動子			01
✻		**WU818300**	HARD DISK DRIVE UNIT	2.5inch 250GB	ハードディスク			
		WN675600	CRYSTAL DISPLAY	LTA075A363F	液晶ディスプレイ			42
		VT69510R	ROTARY VARIABLE RESISTOR	SP. 10.0K RK163111	ロータリーVR	PITCH BEND, MODULATION	2	03
⚠		**WB50130R**	POWER SUPPLY UNIT	CE,U,CS	電源ユニット			22
⚠		**WA78260R**	AC-IN CONNECTOR ACINLET	R-301(B18)	ACインレット	AC IN		02
⚠		**V8377400**	POWER SWITCH	SY16-52-4(U99S2)/T	プッシュSW	Power switch		

✻: New Parts

RANK: Japan only

TRS-MS04

PARTS LIST

■ CONTENTS

WOOFER SPEAKER SYSTEM 2

Notes : DESTINATION ABBREVIATIONS

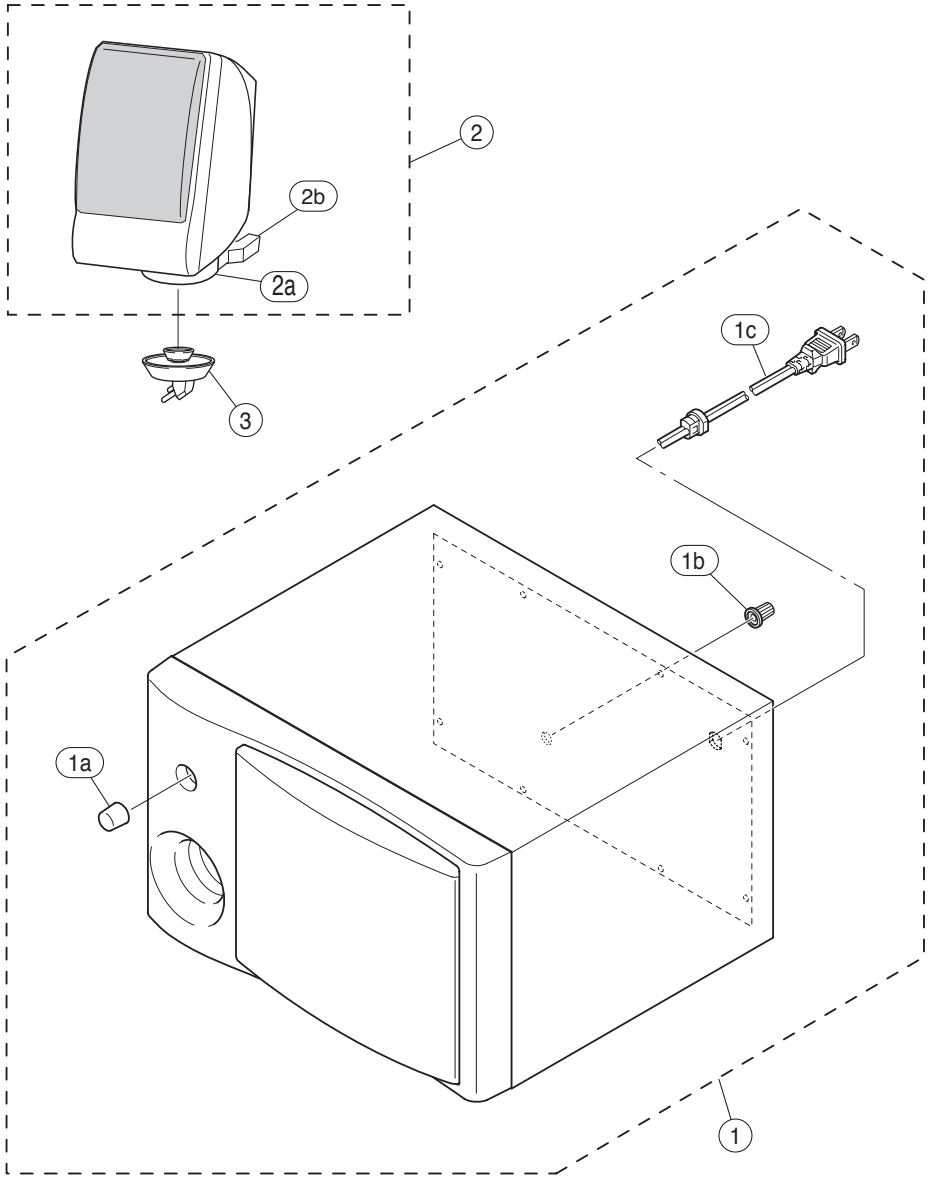
A : Australian model	M : South African model
B : British model	O : Chinese model
C : Canadian model	P : Brazilian model
D : German model	Q : South-east Asia model
E : European model	T : Taiwan model
F : French model	U : U.S.A. model
H : North European model	V : General export model (110V)
I : Indonesian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

■ WARNING

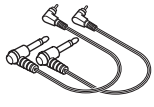
Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.

- The numbers “QTY” show quantities for each unit.
- The parts with “--” in “PART NO.” are not available as spare parts.
- This 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.

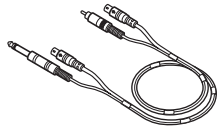
WOOFER SPEAKER SYSTEM



ACCESSORIES



Speaker Cable
(RCA pin cables)



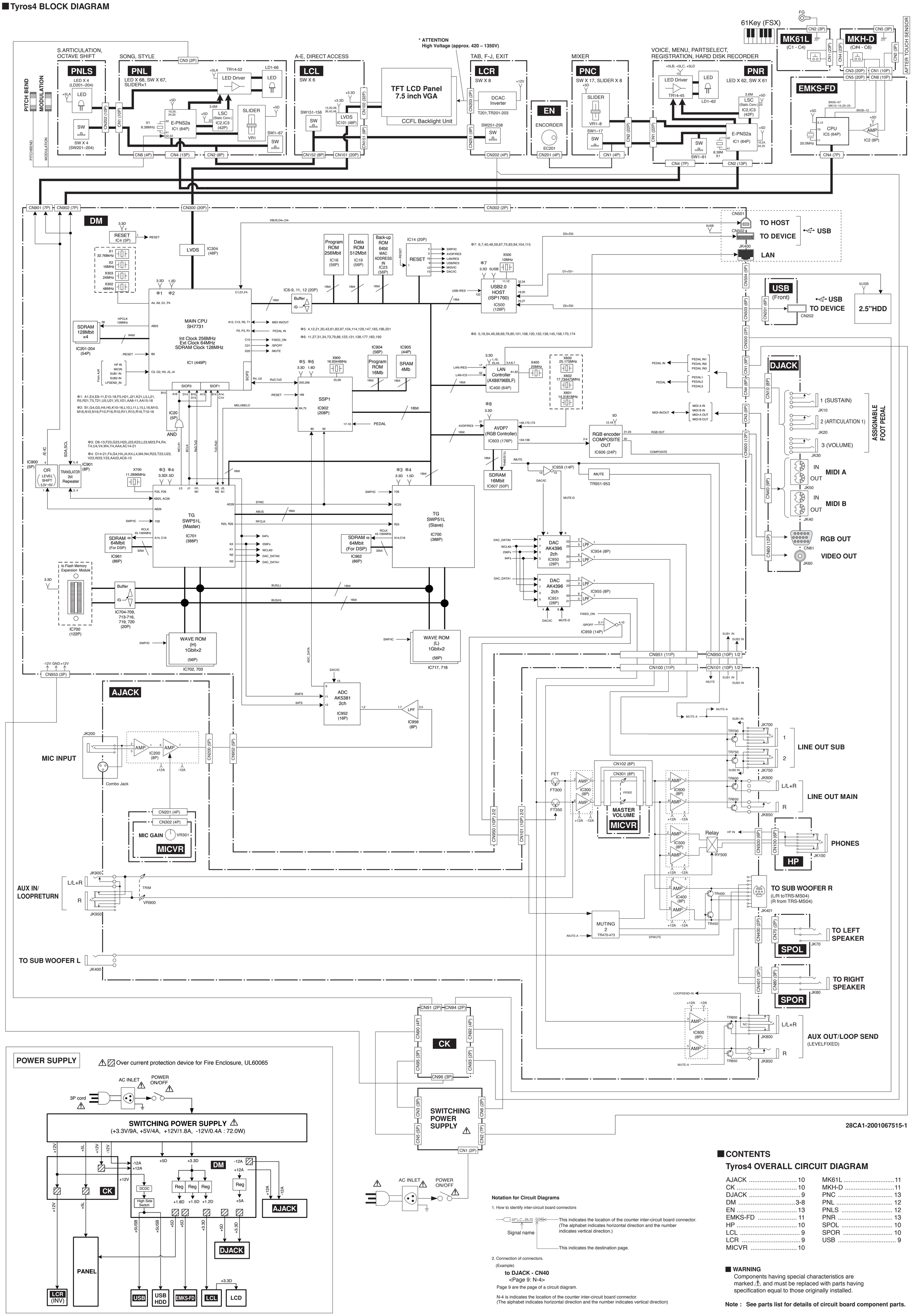
Woofer Cable
(RCA pin/8-pin combination cable)

	REF NO.	PART NO.	DESCRIPTION		部品名	REMARKS	QTY	RANK
			WOOFER SPEAKER SYSTEM		ウーファースピーカシステム	TRS-MS04		
		--	SERVICE PARTS KIT		サービスパーツキット	(WV22710)		
*	1	**WV266900**	WOOFER UNIT U		ウーファーユニット U	U		
*	1	**WV266700**	WOOFER UNIT E		ウーファーユニット E	E		
*	1	**WV267000**	WOOFER UNIT B		ウーファーユニット B	B		
*	1	**WV267100**	WOOFER UNIT A		ウーファーユニット A	A		
	1a	**WF887500**	KNOB VR	508593	VR ノブ	BASS		
*	1b	**WV267200**	KNOB VR	425201	VR ノブ	MASTER VOLUME		
⚠	1c	**V8366300**	AC CORD		電源コード	U		04
⚠	1c	**V8366400**	AC CORD	PHP-205	電源コード	E		04
⚠	1c	**WF886300**	AC CORD	PHP-330	電源コード	B		11
⚠	1c	**WF886400**	AC CORD	PHP-208	電源コード	A		08
*	2	**WV267400**	SATELLITE SPEAKER		サテライトスピーカ		2	
	2a	**WF887300**	TABLE	365301	テーブル		2	03
	2b	**WF887400**	LEVER	365302	レバー		2	03
	3	**WF237400**	SPEAKER STAND ASSEMBLY	423260	スピーカスタンドAss'y		2	07
			ACCESSORIES		付属品			
		WF887200	WOOFER CABLE	423350	ウーファーケーブル			08
		WF887100	SPEAKER CABLE	422181	スピーカケーブル		2	06

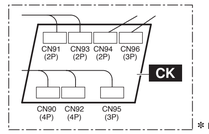
*: New Parts

RANK: Japan only

■ Tyros4 BLOCK DIAGRAM


61Key (FSX)
FG
MK61L
(C1 - C4)
MKH-D
(C#4 - C6)
AFTER TOUCH SENSOR
EMKS-FD
* ATTENTION
High Voltage (approx. 420 – 1350V)
PITCH BEND
MODULATION
S.ARTICULATION, OCTAVE SHIFT
PNLS
LED X 4 (LD201–204)
SW X 4 (SW201–204)
SONG, STYLE
PNL
LED X 68, SW X 67, SLIDER×1
E-PNS2a IC1 (64P)
LSC (Static Conv.) IC2,IC3 (42P)
SLIDER
VR1
SW1–67
LED Driver
TR14-52
LED
LD1-66
A-E, DIRECT ACCESS
LCL
SW X 6
SW151-156
LVDS IC101 (48P)
TFT LCD Panel 7.5 inch VGA
CCFL Backlight Unit
TAB, F-J, EXIT
LCR
SW X 8
DCAC Inverter
T201,TR201-203
SW251-258
EN
ENCORDER
EC201
MIXER
PNC
SW X 17, SLIDER X 8
SLIDER
VR1–8
SW1–17
VOICE, MENU, PARTSELECT, REGISTRATION, HARD DISK RECORDER
PNR
LED X 62, SW X 61
LED Driver
TR14-45
LED
LD1–62
LSC (Static Conv.) IC2,IC3 (42P)
E-PNS2a IC1 (64P)
SW1–61
CPU IC5 (64P)
AMP IC2 (8P)
20.0MHz
8.38M X1
BK00–07 MK10–15,20–25
BK08–13
DM
RESET IC4 (5P)
X1 32.768kHz
X2 16MHz
X303 24MHz
X302 48MHz
LVDS IC304 (48P)
MAIN CPU SH7731
Int Clock 256MHz
Ext Clock 64MHz
SDRAM Clock 128MHz
IC1 (449P)
SDRAM 128Mbit ×4
IC201-204 (54P)
Program ROM 256Mbit IC16 (56P)
Data ROM 512Mbit IC19 (56P)
Back-up ROM 64bit MAC ADDRESS IN IC23 (56P)
IC14 (20P)
RESET
Buffer /G
IC6-9, 11, 12 (20P)
SIOF0
SIOF1
SCIF2
SSP1
IC902 (208P)
IC20 (5P)
AND
X900 16.9344MHz
IC904 (56P)
Program ROM 16Mb
IC905 (44P)
SRAM 4Mb
X700 11.2896MHz
TG SWP51L (Master)
IC701 (388P)
TG SWP51L (Slave)
IC700 (388P)
SDRAM 64Mbit (For DSP)
IC961 (86P)
IC962 (86P)
IC900 (5P)
IC901 (8P)
OR LEVEL SHIFT 3.3V→5V
TRANSLATOR 2bit Repeater
to Flash Memory Expansion Module
IC700 (122P)
IC704-709, 713-716, 719, 720 (20P)
WAVE ROM (H) 1Gbitx2 (56P)
IC702, 703
WAVE ROM (L) 1Gbitx2 (56P)
IC717, 718
ADC AK5381 2ch IC952 (16P)
LPF IC956 (8P)
USB2.0 HOST (ISP1760) IC500 (128P)
X500 12MHz
LAN Controller (AX88796BLF) IC400 (64P)
X400 25MHz
X600 25.175MHz
X602 17.734475MHz
X601 14.3181MHz
AVDP7 (RGB Controller) IC603 (176P)
SDRAM 16Mbit IC607 (50P)
RGB encoder COMPOSITE OUT IC606 (24P)
DAC AK4396 2ch IC950 (28P)
DAC AK4396 2ch IC951 (28P)
LPF IC954 (8P)
LPF IC955 (8P)
IC959 (14P)
TR951-953
MUTING 2 TR470-473
CN953 (3P)
-12V GND +12V
AJACK
JK200
MIC INPUT
Combo Jack
AMP IC200 (8P)
CN201 (4P)
CN302 (4P)
MIC GAIN VR301
MICVR
JK900
AUX IN/ LOOPRETURN
L/L+R
R
TRIM
VR900
JK950
TO SUB WOOFER L
JK400
CN501
TO HOST
TO DEVICE
USB
JK400
LAN
CN504 (5P)
CN503 (6P)
CN201 (6P)
USB (Front)
CN202
TO DEVICE
5USB
2.5"HDD
CN500 (2P)
CN1 (6P)
CN4 (8P)
CN3 (9P)
CN60 (12P)
DJACK
CN10 (8P)
1 (SUSTAIN)
JK10
2 (ARTICULATION 1)
JK20
3 (VOLUME)
JK30
ASSIGNABLE FOOT PEDAL
IN
OUT
MIDI A
JK50
MIDI B
JK40
RGB OUT
CN61
VIDEO OUT
JK60
PEDAL IN
PEDAL IN1
PEDAL IN2
PEDAL IN3
PEDAL
PEDAL1
PEDAL2
PEDAL3
MIDI IN/OUT
MIDI A IN
MIDI B IN
MIDI A OUT
MIDI B OUT
CN951 (11P)
CN950 (10P) 1/2
CN100 (11P)
CN101 (10P) 1/2
CN950 (10P) 2/2
CN101 (10P) 2/2
CN102 (8P)
CN301 (8P)
VR302
MASTER VOLUME
MICVR
FET
FT300
FT350
IC300 (8P)
IC600 (8P)
IC500 (8P)
IC400 (8P)
Relay
RY500
HP IN
HP
JK100
TO SUB WOOFER R
(L/R toTRS-MS04)
(R from TRS-MS04)
JK401
TR400
TR450
TO LEFT SPEAKER
SPOL
JK70
TO RIGHT SPEAKER
SPOR
JK80
AUX OUT/LOOP SEND
(LEVELFIXED)
LOOPSEND-IN
TR800
TR850
JK800
JK850
L/L+R
R
LINE OUT SUB
JK700
JK750
TR700
TR750
LINE OUT MAIN
JK600
JK650
TR600
TR650
SUB1 IN
SUB2 IN
/MUTE
MUTE-A
SPMUTE
FIXED_ON
/SPOFF
CN91 (2P)
CN94 (2P)
CN90 (4P)
CN92 (4P)
CN95 (3P)
CN93 (2P)
CN96 (3P)
CK
SWITCHING POWER SUPPLY
CN3 (3P)
CN6 (2P)
CN5 (5P)
CN2 (7P)
CN1 (2P)
AC INLET
POWER ON/OFF
CN91 (4P)
CN902 (7P)
CN300 (20P)
CN302 (2P)
CN6 (4P)
CN4 (13P)
CN2 (8P)
CN152 (8P)
CN101 (20P)
CN202 (4P)
CN4 (7P)
CN2 (13P)
CN1 (4P)
CN201 (4P)
CN202 (10P)
CN1 (10P)
CN102 (32P)
CN151 (9P)
CN203 (2P)
CN251 (9P)
CN2 (22P)
CN1 (22P)
CN3 (2P)
CN5 (3P)
CN1 (23P)
CN4 (23P)
CN2 (3P)
CN3 (20P)
CN1 (10P)
CN5 (20P)
CN6 (10P)
CN4 (7P)
CN2 (8P)
CN1 (22P)
CN2 (3P)
CN1 (9P)
CN2 (22P)
CN1 (4P)
CN1 (22P)
CN4 (7P)
CN2 (13P)
CN1 (4P)
CN201 (4P)
CN202 (4P)
CN1 (10P)
CN2 (8P)
CN1 (22P)
CN2 (22P)
CN1 (4

■ Tyros4 WIRING



* E, B, P models

No.	Unit Name	Location No.	Part No.	Connector Assembly	Destination		Remarks
①	UPPER CASE UNIT	UC1	(WN54580)	PNLS	PNLS-CN202	PNL-CN1	10P
②		UC2	(WU65350)	VOL	MICVR-CN301	AJACK-CN102	8P
③		UC3	(WU65360)	MIC-VOL	MICVR-CN302	AJACK-CN201	4P
④		UC4	(WN54570)	PNLR	PNL-CN4	PNR-CN2	13P
⑤		UC5	VK105800	KRD-KRD	PNR-CN4	DM-CN901	7P L=300
⑥		UC6	(WV34310)	USB Cable	USB-CN201	DM-CN503	6P L=520
⑦		UC8	WN834100	FFC Cable	PNC-CN2	PNR-CN1	22P L=100
⑧		UC9	(WN74950)	GND1	PNR	USB	1P (LUG-LUG) L=70 Fixes by a screw
⑨		UC11	(WU64900)	CK-PNL	CK-CN91	PNL-CN3	2P
⑩	PNC CIRCUIT BOARD	CN1	(WU65400)	DS-KR	PNC-CN1	EN-CN201	4P L=100 (Board Inn type)
⑪	WHEEL ASSEMBLY	70	(WE84700)	WHEEL	WHEEL ASSEMBLY	PNL-CN6	4P L=150,170
⑫	LCD UNIT	LD1	WV609400	FFC-LF	PNL-CN2	LCL-CN152	8P L=330
⑬		LD2	WT764300	FFC Cable	LCL-CN151	LCR-CN251	9P L=260
⑭		LD3	WN834200	FFC Cable	LCL-CN102	CRYSTAL DISPLAY	32P L=50
⑮		LD4	(WU65370)	CK-LC-DM	LCR-CN202	CK-CN93	4P-2P/3P
						DM-CN302	
⑯		LD5	WV523400	LVDS	LCL-CN101	DM-CN300	20P
⑰		LD6	(WV60910)	GND2	CRYSTAL DISPLAY	LCD SUPPORT STAY	1P (LUG-LUG)
⑱	LOWER CASE UNIT	LC1	WN754000	HP-LF	AJACK-CN500	HP-CN100	6P L=600
⑲		LC2	(WU64820)	ACIN	INLET/POWER SWITCH	SWITCHING POWER SUPPLY-CN1	3P

No.	Unit Name	Location No.	Part No.	Connector Assembly	Destination		Remarks
⑳	LOWER CASE UNIT	LC4	(WN75410)	SPR	AJACK-CN401	SPOR-CN80	3P L=1500
㉑		LC5	(WU65300)	SPL	AJACK-CN400	SPOL-CN70	2P
㉒		LC6	(WV34690)	DM-PWR	DM-CN1	SWITCHING POWER SUPPLY-CN2	6P/7P L=850
㉓		LC7	(WN78550)	AJK-PWR	CK-CN95	SWITCHING POWER SUPPLY-CN3	3P L=170
㉔		LC8	(WU65310)	PWR5V	SWITCHING POWER SUPPLY-CN5	CK-CN90	5P/4P
㉕		LC9	(WU65320)	PWR12V	SWITCHING POWER SUPPLY-CN6	CK-CN92	2P/4P
㉖		LC10	(WU65330)	USB12V	CK-CN94	DM-CN500	2P
㉗		LC11	(WU65340)	CK-DM	CK-CN96	DM-CN953	3P
㉘		LC12	VK108600	KRD-KRD	AJACK-CN100	DM-CN951	11P L=350
㉙		LC13	VK106100	KRD-KRD	AJACK-CN101	DM-CN950	10P L=300
㉚		LC14	(WU64970)	MICIN	AJACK-CN200	DM-CN952	5P
㉛		LC15	(WU64920)	VIDEO	DJACK-CN60	DM-CN600	12P
㉜		LC16	VK098300	KRD-KRD	DJACK-CN10	DM-CN4	8P L=100
㉝		LC17	VK09850R	KRD-KRD	DJACK-CN40	DM-CN3	9P L=100
㉞		LC18	(WV77320)	USB Cable	DM-CN504	HDD	5P
㉟		LC19	(WV71830)	GND3	MK61L-CN2	AC LOWER FRAME	3P/1P Fixes by a screw
㊱	MK UNIT	M3a	(WN75430)	EBUSK-LF	EMKS-FD -CN4	DM-CN902	7P L=500
㊲	KEYBOARD ASSEMBLY	230	WF12750R	Card Cable	MK61L-CN1	MKH-D -CN4	23P L=110
			WS032700				

OVERALL ASSEMBLY: **2NC-WU48040-4**
UPPER CACE UNIT: **2NBEX-WU61800-7** /1
LCD UNIT: **2NBEX-WU61940-3**
LOWER CACE UNIT: **2NBEX-WU61810-4** /1

: DATA LINE FILTER

: CORD BINDER

The parts that correspond to the number with ( ) are not prepared as service parts.

■Tyros4 OVERALL CIRCUIT DIAGRAM 1/11 (DM 001)

DM 001/6

MAIN CPU
RBA77310AC266BGV
1/7

TRANSCEIVER
SN74LV245APWR

FLASH ROM 256M PROGRAM
Extensible to 512Mbit
IC16 256MD

FLASH ROM 512M DATA
IC19 512MD

FLASH ROM 64M BACKUP
IC23 64MD

MAIN CPU
RBA77310AC266BGV
2/7

AND
SN74LV21APWR

D-FF
TC7WH74FU

OR
TC75W53FU

MAIN CPU
RBA77310AC266BGV
3/7

AND
TC75H08FU

OR
SN74LV32APWR

INVERTER
TC74VHC14FT

TRANSCEIVER

DECODER
TC74VHC139FT

SYSTEM RESET
R3112N091A-F

INVERTER

REGULATOR +1.2V
R1172H121D-T1-F

OR
TC75W53FU

AND
TC75H08FU

OR
SN74LV32APWR

INVERTER
TC74VHC14FT

OR
SN74LV32APWR

INVERTER
TC74VHC14FT

PEDAL1:SUSTAIN
PEDAL2:ARTICURATION
PEDAL3:VOLUME

to Switching Power Supply Unit - CN2
<Page 10: H-10>

to DJACK - CN10
<Page 9: N-2>

to DJACK - CN40
<Page 9: N-4>

28CC1-2001067500-1

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

×××: Not Installed

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

■Tyros4 OVERALL CIRCUIT DIAGRAM 2/11 (DM 002)

DM 002/6

MAIN CPU

IC1
RBA7731DAL266BGV

4/7

HFD63/9TH2 … HFD48/9TB3
HFD31/HPD47 … HFD16/HPD32
HFD15/AE17 … HFD0/AB17
HPA16/AB24 … HPA3/AB32
HPCLK/AB25 … HPCKE/AD23
HPCS/AD23 … HPRAS/AC22
HPDQM0/V22 … HPDQM7/AB21
HPCLKO/AE16

RA200 … RA213 (27Ω 4)
RA217 (27Ω 4)
RA214 (27Ω 4)
RA215 (27Ω 4)
RA218 (27Ω 4)
RA216 (27Ω 4)
RA219 (27Ω 4)
RA220 (27Ω 4)
RA221 (27Ω 4)
RA222 (27Ω 4)
RA223 (27Ω 4)
RA224 (27Ω 4)
RA225 (27Ω 4)
RA226 (27Ω 4)
RA227 (27Ω 4)
RA228 (27Ω 4)
RA229 (27Ω 4)
RA230 (27Ω 4)
RA231 (27Ω 4)
RA232 (27Ω 4)
RA233 (27Ω 4)
RA234 (27Ω 4)
RA235 (27Ω 4)
RA236 (27Ω 4)
RA237 (27Ω 4)
RA238 (27Ω 4)
RA239 (27Ω 4)
RA240 (27Ω 4)
RA241 (27Ω 4)
RA242 (27Ω 4)
RA243 (27Ω 4)
RA244 (27Ω 4)
RA245 (27Ω 4)
RA246 (27Ω 4)

XXX
IC2
RP-15
777
DGND

HPCLK, HPCKE, HPRAS, HPCAS, HPWE, HPDQM0–7, HPCLKO

PTV4 … PTU13 → TL200 … TL213

SDRAM 128M

IC201 (RD0–RD15, RA219–RA224)
IC202 (RD16–RD31, RA225–RA232)
IC203 (RD32–RD47, RA233–RA238)
IC204 (RD48–RD63, RA239–RA246)

+3.3D
C200 10u
C201–C209 0.1u (1t)
C210 10u
C211–C219 0.1u (1t)
C218 10u
C219–C231 0.1u (1t)
C206 10u
C207–C231 0.1u (1t)
777 DGND

DQM1L, H-RD1/WR1, CAS1, RAS1, CS3-1, BA[1:0], RA[13:0], DQM1U
DQM2L, H-RD2/WR2, CAS2, RAS2, CS3-2, BA[1:0], RA[13:0], DQM2U
DQM3L, H-RD3/WR3, CAS3, RAS3, CS3-3, BA[1:0], RA[13:0], DQM3U
DQM4L, H-RD4/WR4, CAS4, RAS4, CS3-4, BA[1:0], RA[13:0], DQM4U

HPCLK1 → CKE1
HPCLK2 → CKE2
HPCLK3 → CKE3
HPCLK4 → CKE4

R253_68 … R256_68 (68Ω 8)
CS3-1 … CS3-4
R259_0, R258_0, R257_0, R256_0 (0Ω)
R216_27, R217_27 (27Ω)
R226_27, R227_27 (27Ω)

C206 10u
C207 0.1u (1t)
IC2000 CY2305 (REF, CLK2, CLK1, GND, NC, CLKOUT, CLKIN, VDD)
XXX

MAIN CPU

IC1
RBA7731DAL266BGV

5/7

HPA16/AB24 … HPA3/AB32
HPA2/AC25 NC
HPA1/AD24 NC
HPCLK/AB25 NC
HPCKE/AD23 NC
HPCS/AD23 NC
HPRAS/AC22 NC
HPCAS/AD22 NC
HPWE/AE22 NC
HPDQM0/V22 … HPDQM7/AB21
HPCLKO/AE16 NC

RA216 … RA223 (27Ω 4)
RA217 (27Ω 4)
RA214 (27Ω 4)
RA218 (27Ω 4)
RA219 (27Ω 4)
RA220 (27Ω 4)
RA221 (27Ω 4)
RA222 (27Ω 4)
RA223 (27Ω 4)

XXX
IC2
RP-15
777
DGND

HPCLK, HPCKE, HPRAS, HPCAS, HPWE, HPDQM0–7, HPCLKO

PTV4 … PTU13 → TL200 … TL213

3.3V Decoupling

C2000–C2059 0.1u (1t)
C2500–C2559 0.1u (1t)
C2010–C2059 0.1u (1t)
777 DGND

MAIN CPU

IC1
RBA7731DAL266BGV

7/7

+1.2D
+3.3D
C234 10u
C235–C248 0.1u
C249 10u
C250–C263 0.1u
777 DGND

28CC1-2001067500-2

×××: Not Inatalled

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

■Tyros4 OVERALL CIRCUIT DIAGRAM 3/11 (DM 003)

DM 003/6

LCD

LAN

Debug Only

MAIN CPU

IC1
R8A77310AC266BGV

6/7

HI-SPEED USB 2.0 HOST/OTG CONTROLLER

IC500
ISP1760BE

LVDS SERIALIZER/ DE-SERIALIZER

IC304
FIN1215MTDX

LAN CONTROLLER

IC400
AX88796BLF

RGB CONTROLLER AVDP7

IC503
YGV628B-VZ

DC-DC CONVERTER

IC501
S1-1900TDE

HIGH SIDE SWITCH

IC502
BD6511TE2

IC503
BD6511TE2

D-FF

IC604
TC74AC74FT

INVERTER

IC600
TC7WHU04FU

IC601
TC7WHU04FU

IC602
TC7WHU04FU

RGB ENCODER

IC606
BH7232AF-E2

BUFFER

IC605
TC7WT126FT

SDRAM 16M

IC607
W9816G6JH-7

USB TO HOST

CN601
YKF45-0430

USB TO DEVICE (REAR)

CN502
YKF45-0530

to HARD DISK DRIVE UNIT

CN504
B05B-PH-SM3-TB

to USB-CN201

<Page 9: P-8>

to DJACK-CN60

<Page 9: M-2>

to LCR-CN202

<Page 9: K-11>

to LCD-CN101

<Page 9: J-4>

to CK-CN94

<Page 10: C-9>

RGB & COMPOSIT

28CC1-2001067500-3 /1

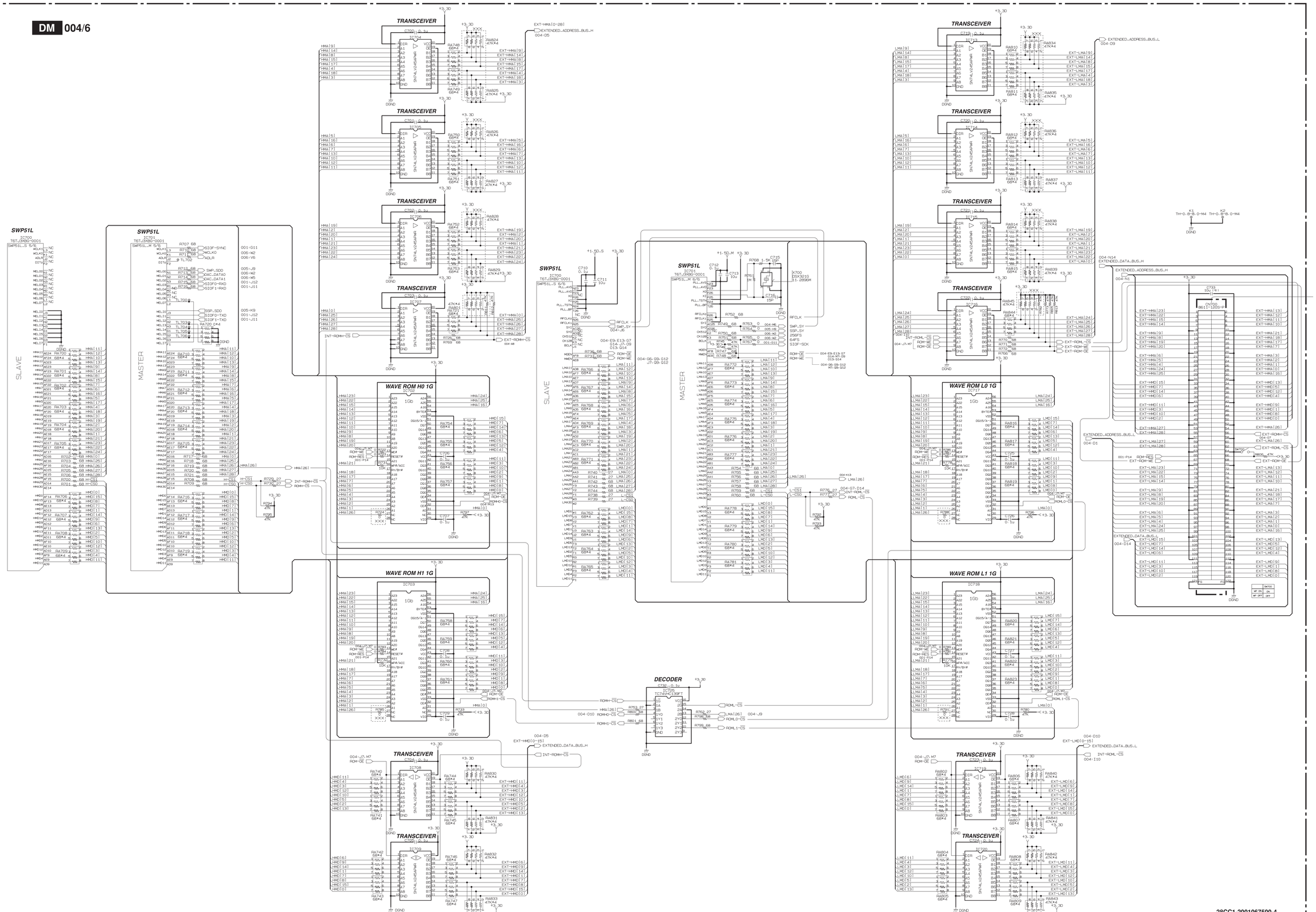
■ **WARNING**
Components having special characteristics are marked /1 and must be replaced with parts having specification equal to those originally installed.

××× : Not Inatalled

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

Tyros4 OVERALL CIRCUIT DIAGRAM 4/11 (DM 004)

DM 004/6



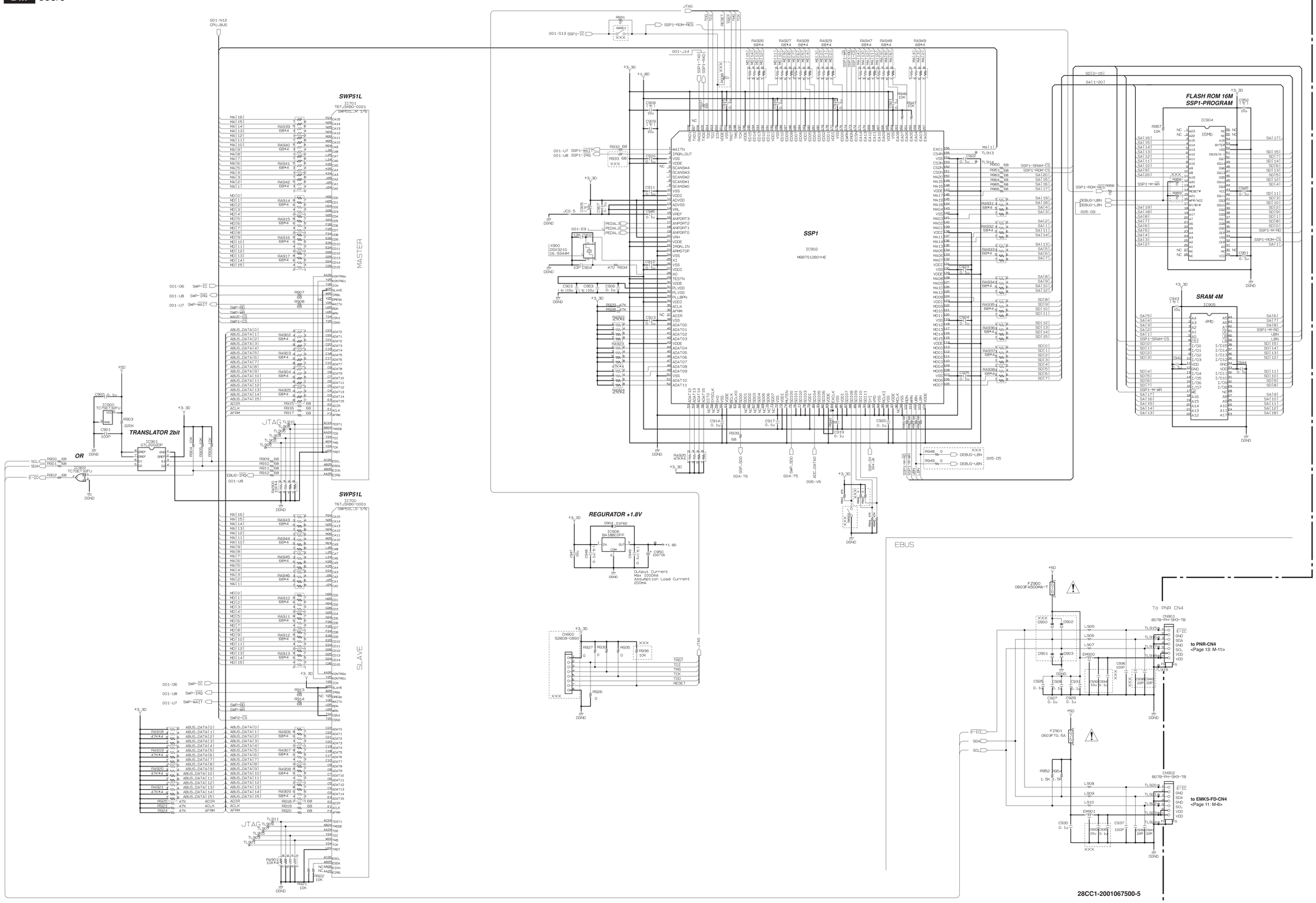
28CC1-2001067500-4

×××: Not Installed

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

■Tyros4 OVERALL CIRCUIT DIAGRAM 5/11 (DM 005)

DM 005/6



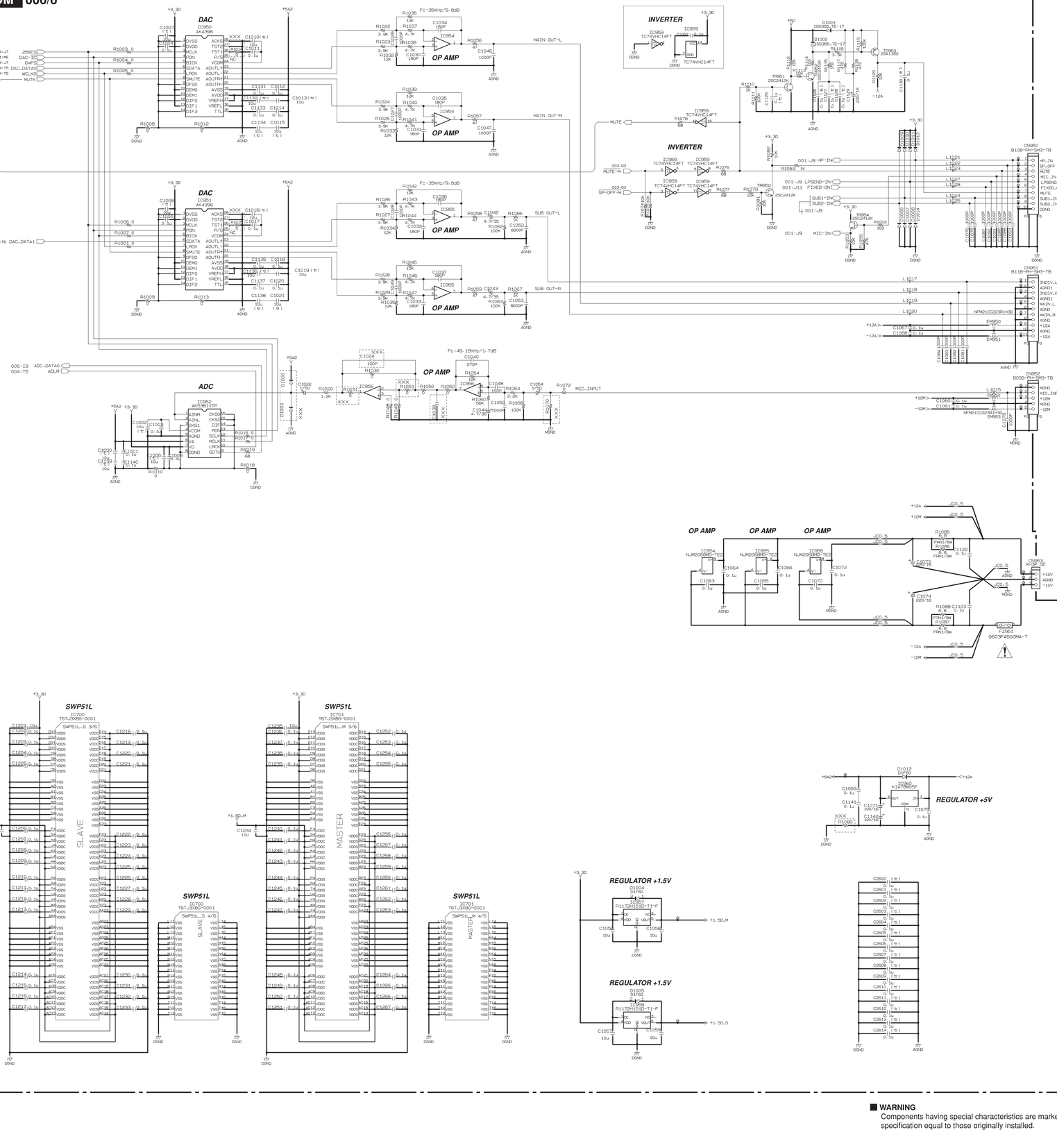
■ **WARNING**
Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.

×××: Not Inatalled

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

■Tyros4 OVERALL CIRCUIT DIAGRAM 6/11 (DM 006)

DM 006/6



■ **WARNING**
Components having special characteristics are marked ⚠1 and must be replaced with parts having specification equal to those originally installed.

×××: Not Installed

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

<Page 9>

■Tyros4 OVERALL CIRCUIT DIAGRAM 7/11 (DJACK, LCL, LCR, USB)

DJACK

FOOT PEDAL(1x-3x)

to DM001-CN4 <Page 3: A-9>

ASSIGNABLE FOOT PEDAL
1 (SUSTAIN)
2 (ARTICULATION 1)
3 (VOLUME)

VIDEO OUT(6x)

to DM003-CN600 <Page 5: B-11>

RGB OUT

VIDEO OUT

MIDI(4x.5x)

to DM001-CN3 <Page 3: A-11>

MIDI B OUT
MIDI B IN
MIDI A OUT
MIDI A IN

Photo Coupler

28CC1-2001067401

LCL

LCD

to DM003-CN300 <Page 5: W-9>

LVDS SERIALIZER /DE-SERIALIZER

DOTCLK 24MHZ

CLK 24MHZ

INVERTER

LCD PANEL LEFT

• SWITCH MATRIX (LCL)

	DA[0]	DA[1]	DA[2]
SA[12]	SW151 A	SW152 B	SW153 C
SA[13]	SW154 D	SW155 E	SW156 DIRECT ACCESS

to PNL-CN2 <Page 12: M-6>

• SWITCH MATRIX (LCR)

	DB[0]	DB[1]	DB[2]	DB[3]
SB[14]	SW251 TAB[<]	SW252 TAB[>]	SW253 F	SW254 G
SB[15]	SW255 H	SW256 I	SW257 J	SW258 EXIT

28CC1-2001067398-1

USB

to DM003-CN503 <Page 5: A-6>

USB TO DEVICE

28CC1-2001067327-2

LCR

LCD PANEL RIGHT

INVERTER

to DM003-CN302 <Page 5: W-6 >

to CK-CN93 <Page 10: C-9 >

28CC1-2001067398-2

LCD

LCD Back Light

×××: Not Inatalled

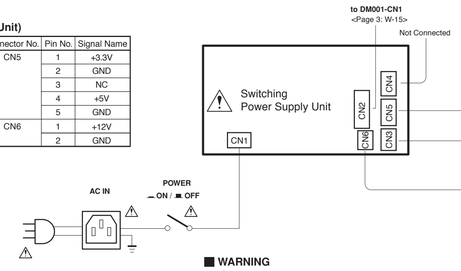
Note : See parts list for details of circuit board component parts

<Page 10>

■Tyros4 OVERALL CIRCUIT DIAGRAM 8/11 (AJACK, CK, HP, MICVR, SPOL, SPOR, Switching Power Supply Unit)

Connector Table (Power Supply Unit)

Connector No.	Pin No.	Signal Name	Connector No.	Pin No.	Signal Name
CN1	1	AC NEUTRAL	CN5	1	+3.3V
	2	AC LIVE		2	GND
CN2	1	+3.3V		3	NC
	2			4	+5V
	3	GND		5	GND
	4		CN6	1	+12V
	5	NC		2	GND
	6	+5V			
	7	GND			
CN3	1	+12V			
	2	GND			
	3	-12V			



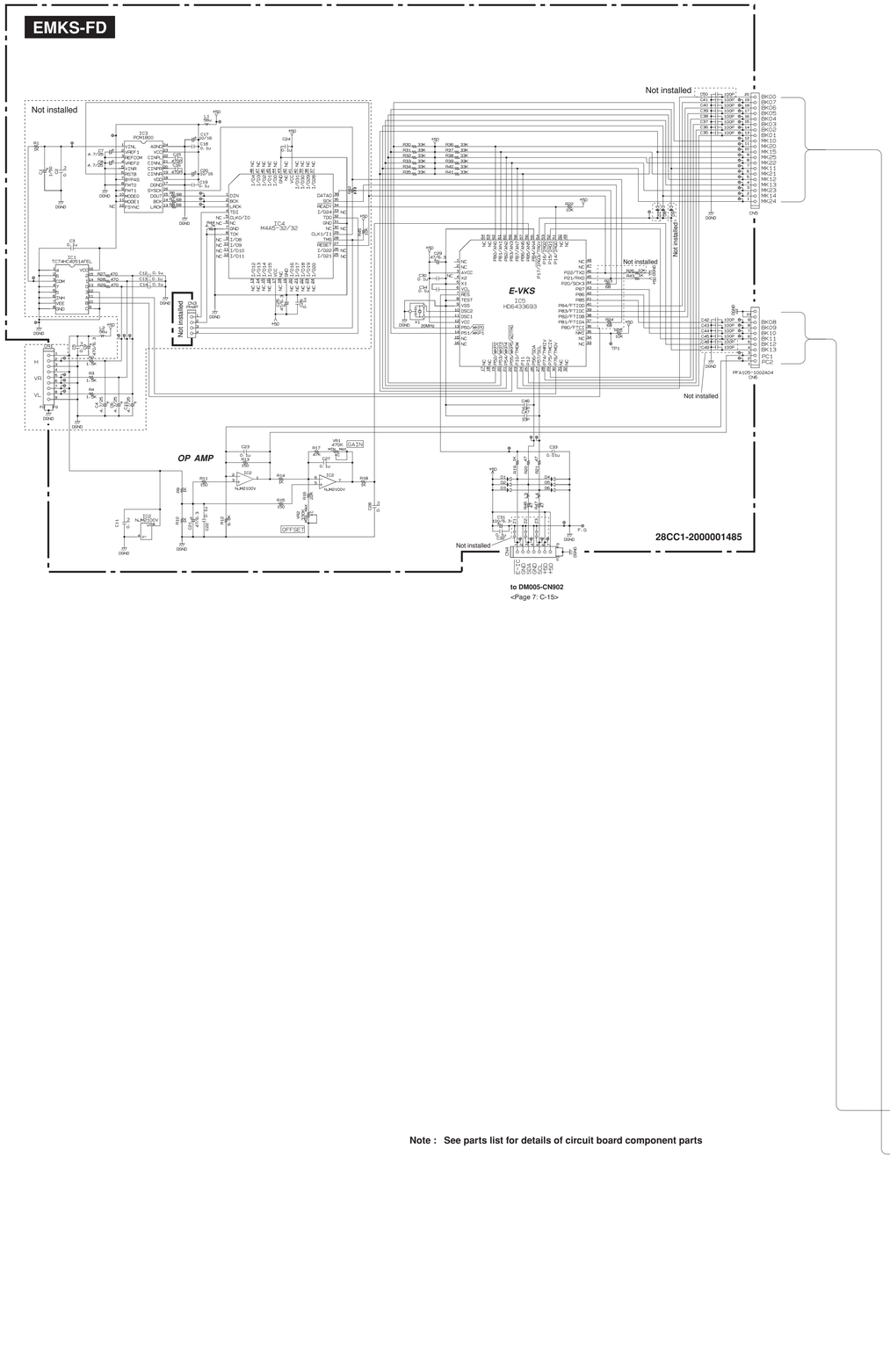
■ **WARNING**
Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.

×××: Not Inatalled

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

■Tyros4 OVERALL CIRCUIT DIAGRAM 9/11 (EMKS-FD, MK61L, MKH-D)

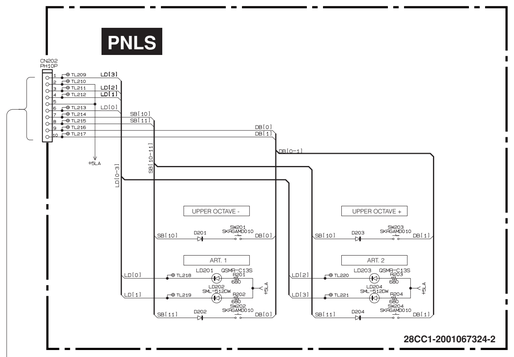
EMKS-FD


Not installed
Not installed
Not installed

<Page 12>

■Tyros4 OVERALL CIRCUIT DIAGRAM 10/11 (PNL, PNLS)

PNLS



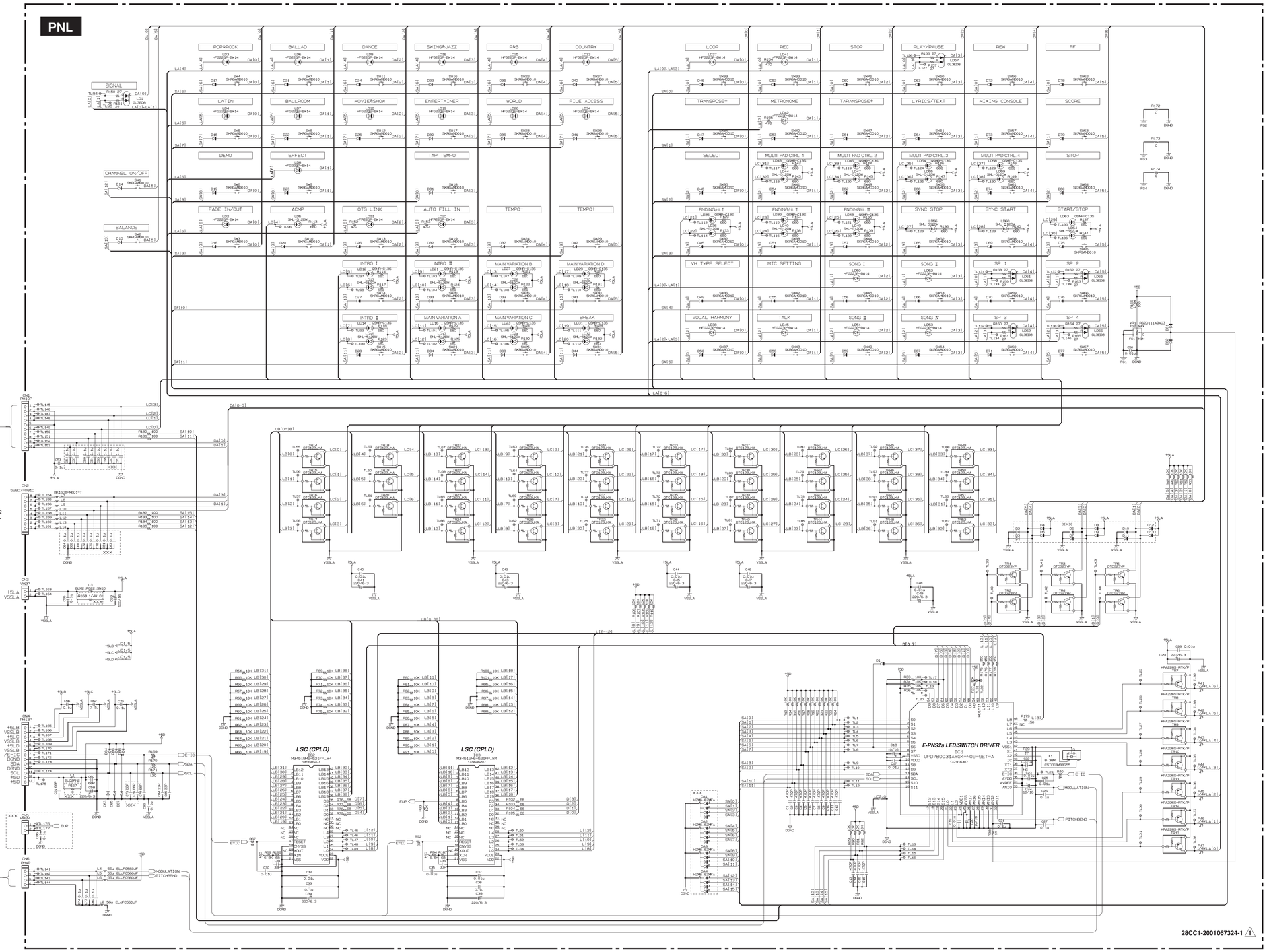
•SWITCH MATRIX (PNLS)

	DB[0]	DB[1]
SB[10]	SW201 UPPER OCTAVE [-]	SW203 UPPER OCTAVE [+]
SB[11]	SW202 ART. 1	SW204 ART. 2

• LED MATRIX (PNLS)

	VSSLA
LD[0]	LD201 ART. 1
LD[1]	LD202 ART. 1
LD[2]	LD203 ART. 2
LD[3]	LD204 ART. 2

PNL



×××: Not Inatalled

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

• SWITCH MATRIX (PNL)

	DA[0]	DA[1]	DA[2]	DA[3]	DA[4]	DA[5]
SA[0]	SW33 SONG [LOOP]	SW39 SONG [REC]	SW46 SONG [STOP]	SW50 SONG [PLAY/PAUSE]	SW56 SONG [REW]	SW62 SONG [FF]
SA[1]	SW34 TRANSPOSE [-]	SW40 SONG [METRONOME]	SW47 TRANSPOSE [+]	SW51 SONG [LYRICS/TEXT]	SW57 MIXING CONSOLE	SW63 SONG [SCORE]
SA[2]	SW35 MULTI PAD CONTROL [SELECT]	SW41 MULTI PAD CONTROL [1]	SW48 MULTI PAD CONTROL [2]	SW55 MULTI PAD CONTROL [3]	SW61 MULTI PAD CONTROL [4]	SW64 MULTI PAD CONTROL [STOP]
SA[3]	SW32 ENDING/rit. [I]	SW38 ENDING/rit. [II]	SW44 ENDING/rit. [III]	SW52 STYLE CONTROL [SYNC STOP]	SW58 STYLE CONTROL [SYNC START]	SW65 STYLE CONTROL [START/STOP]
SA[4]	S36 MIC [VH TYPE SELECT]	SW42 MIC [TALK]	SW45 SONG [I]	SW53 SONG [II]	SW59 SONG [SP 1]	SW66 SONG [SP 2]
SA[5]	SW37 MIC [VOCAL HARMONY]	SW43 MIC [TALK]	SW49 SONG [III]	SW54 SONG [IV]	SW60 SONG [SP 3]	SW67 SONG [SP 4]
SA[6]	SW4 STYLE [POP & ROCK]	SW7 STYLE [BALLAD]	SW11 STYLE [DANCE]	SW16 STYLE [SWING & JAZZ]	SW22 STYLE [R & B]	SW27 STYLE [COUNTRY]
SA[7]	SW5 STYLE [LATIN]	SW8 STYLE [BALLROOM]	SW12 STYLE [MOVIE & SHOW]	SW17 STYLE [ENTERTAINER]	SW23 STYLE [WORLD]	SW28 STYLE [FILE ACCESS]
SA[8]	SW6 DEMO	SW9 MIC [EFFECT]		SW18 TAP TEMPO		
SA[9]	SW3 FADE IN/OUT	SW10 STYLE CONTROL [ACMP]	SW13 STYLE CONTROL [OTS LINK]	SW19 STYLE CONTROL [AUTO FILL IN]	SW24 TEMPO [-]	SW29 TEMPO [+]
SA[10]			SW14 STYLE CONTROL INTRO [I]	SW20 STYLE CONTROL INTRO [III]	SW26 MAIN VARIATION [B]	SW30 MAIN VARIATION [D]
SA[11]			SW15 STYLE CONTROL INTRO [II]	SW21 MAIN VARIATION [A]	SW25 MAIN VARIATION [C]	SW31 STYLE CONTROL [BREAK]
SA[12]						SW1 CHANNEL ON/OFF
SA[13]						SW2 BALANCE

• LED MATRIX (PNL)

	DA[0]	DA[1]	DA[2]	DA[3]	DA[4]	DA[5]
LA[0]	LD1 <GREEN> SIGNAL	LD41 SONG [REC]		LD57 <GREEN> SONG [PLAY/PAUSE]	LD61 <GREEN> SONG [SP 1]	LD65 <GREEN> SONG [SP 2]
LA[1]	LD1 <RED> SIGNAL		LD50 SONG [I]	LD52 SONG [II]	LD61 <RED> SONG [SP 1]	LD65 <RED> SONG [SP 2]
LA[2]	LD38 MIC [VOCAL HARMONY]	LD45 MIC [TALK]	LD51 SONG [III]	LD53 SONG [IV]	LD62 <GREEN> SONG [SP 3]	LD66 <GREEN> SONG [SP 4]
LA[3]	LD37 SONG [LOOP]	LD42 SONG [METRONOME]		LD57 <RED> SONG [PLAY/PAUSE]	LD62 <RED> SONG [SP 3]	LD66 <RED> SONG [SP 4]
LA[4]	LD3 STYLE [POP & ROCK]	LD6 STYLE [BALLAD]	LD9 STYLE [DANCE]	LD18 STYLE [SWING & JAZZ]	LD25 STYLE [R & B]	LD33 STYLE [COUNTRY]
LA[5]	LD4 STYLE [LATIN]	LD7 STYLE [BALLROOM]	LD10 STYLE [MOVIE & SHOW]	LD19 STYLE [ENTERTAINER]	LD26 STYLE [WORLD]	LD34 STYLE [FILE ACCESS]
LA[6]	LD2 FADE IN/OUT	LD8 MIC [EFFECT]	LD11 STYLE CONTROL [OTS LINK]	LD20 STYLE CONTROL [AUTO FILL IN]		

• LED MATRIX (PNL)

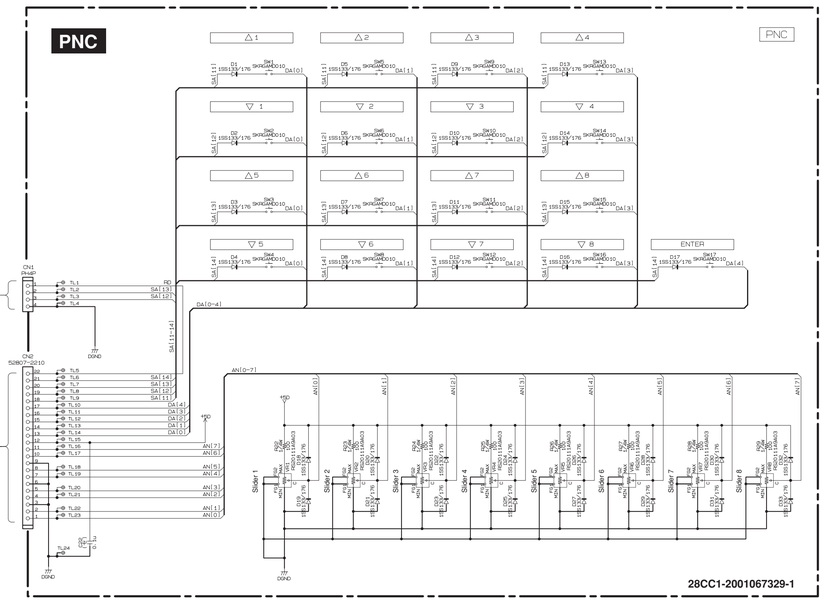
	VSSLA		VSSLA		VSSLA
LC[0]		LC[14]	LD28 MAIN VARIATION [B]	LC[28]	LD60 STYLE CONTROL [SYNC START]
LC[1]		LC[15]	LD23 MAIN VARIATION [C]	LC[29]	LD63 STYLE CONTROL [START/STOP]
LC[2]		LC[16]	LD24 MAIN VARIATION [C]	LC[30]	LD64 STYLE CONTROL [START/STOP]
LC[3]		LC[17]	LD29 MAIN VARIATION [D]	LC[31]	LD43 MULTI PAD CONTROL [1]
LC[4]	LD5 STYLE CONTROL [ACMP]	LC[18]	LD30 MAIN VARIATION [D]	LC[32]	LD44 MULTI PAD CONTROL [1]
LC[5]	LD12 STYLE CONTROL INTRO [I]	LC[19]	LD31 STYLE CONTROL [BREAK]	LC[33]	LD46 MULTI PAD CONTROL [2]
LC[6]	LD13 STYLE CONTROL INTRO [I]	LC[20]	LD32 STYLE CONTROL [BREAK]	LC[34]	LD47 MULTI PAD CONTROL [2]
LC[7]	LD14 STYLE CONTROL INTRO [II]	LC[21]	LD35 ENDING/rit. [I]	LC[35]	LD54 MULTI PAD CONTROL [3]
LC[8]	LD15 STYLE CONTROL INTRO [II]	LC[22]	LD36 ENDING/rit. [I]	LC[36]	LD55 MULTI PAD CONTROL [3]
LC[9]	LD21 STYLE CONTROL INTRO [III]	LC[23]	LD39 ENDING/rit. [II]	LC[37]	LD58 MULTI PAD CONTROL [4]
LC[10]	LD22 STYLE CONTROL INTRO [III]	LC[24]	LD40 ENDING/rit. [II]	LC[38]	LD59 MULTI PAD CONTROL [4]
LC[11]	LD16 MAIN VARIATION [A]	LC[25]	LD48 ENDING/rit. [III]		
LC[12]	LD17 MAIN VARIATION [A]	LC[26]	LD49 ENDING/rit. [III]		
LC[13]	LD27 MAIN VARIATION [B]	LC[27]	LD56 STYLE CONTROL [SYNC STOP]		

Tyrso4

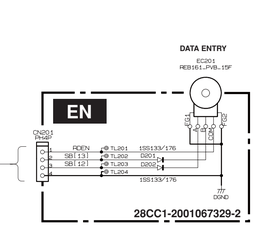
<Page 13>

Tyros4 OVERALL CIRCUIT DIAGRAM 11/11 (EN, PNC, PNR)

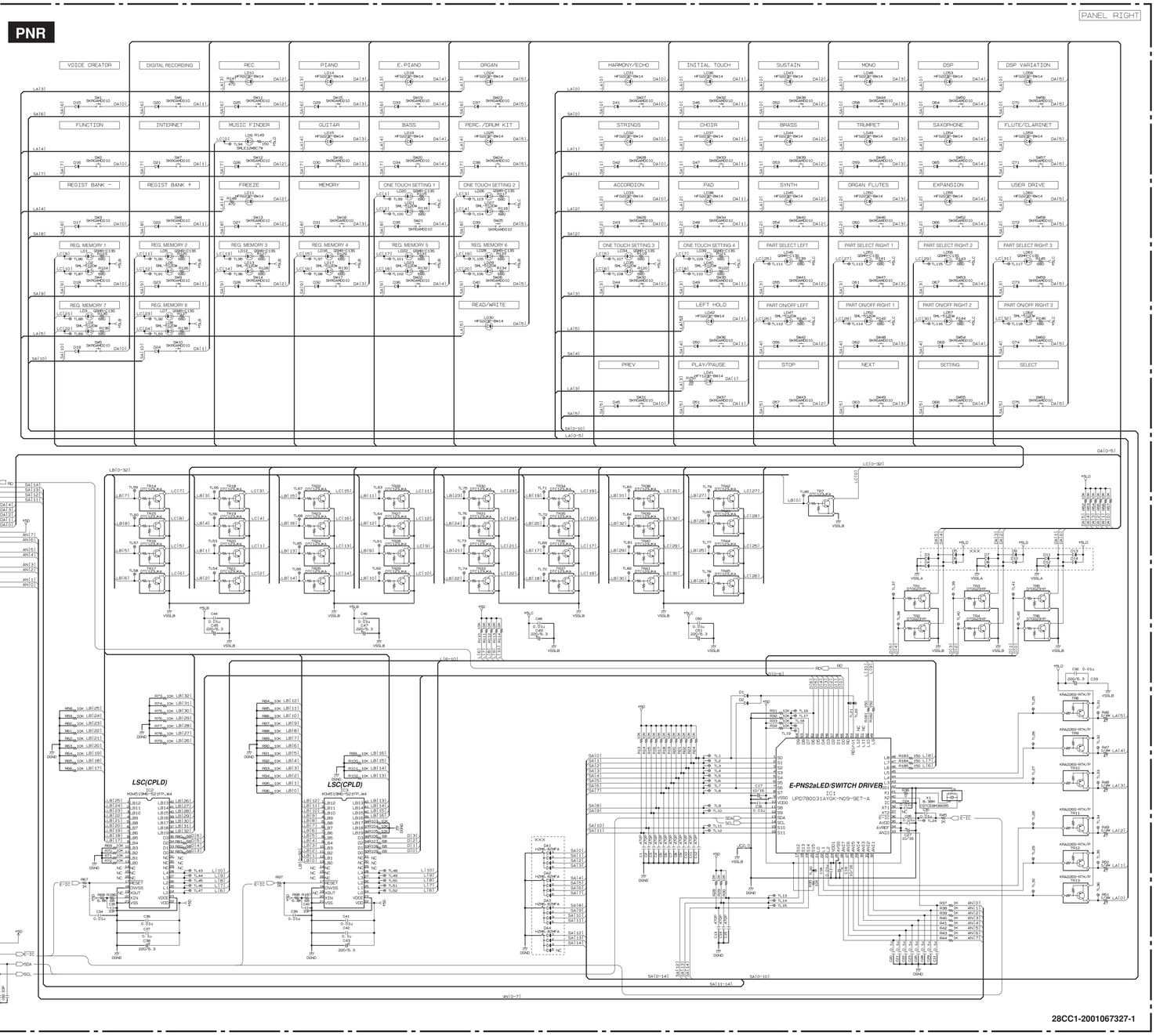
PNC



EN



PNR



- SWITCH MATRIX (PNC)

	DA[0]	DA[1]	DA[2]	DA[3]	DA[4]
SA[11]	SW1 [1] (△)	SW5 [2] (△)	SW9 [3] (△)	SW13 [4] (△)	
SA[12]	SW2 [1] (▽)	SW6 [2] (▽)	SW10 [3] (▽)	SW14 [4] (▽)	
SA[13]	SW3 [5] (△)	SW7 [6] (△)	SW11 [7] (△)	SW15 [8] (△)	
SA[14]	SW4 [5] (▽)	SW8 [6] (▽)	SW12 [7] (▽)	SW16 [8] (▽)	SW17 ENTER

- SWITCH MATRIX (PNR)

	DA[0]	DA[1]	DA[2]	DA[3]	DA[4]	DA[5]
SA[0]	SW27 VOICE EFFECT [HARMONY/ECHO]	SW32 VOICE EFFECT [INITIAL TOUCH]	SW38 VOICE EFFECT [SUSTAIN]	SW44 VOICE EFFECT [MONO]	SW50 VOICE EFFECT [DSP]	SW56 VOICE EFFECT [VARIATION]
SA[1]	SW28 VOICE [STRINGS]	SW33 VOICE [CHOIR]	SW39 VOICE [BRASS]	SW45 VOICE [TRUMPET]	SW51 VOICE [SAXOPHONE]	SW57 VOICE [FLUTE/CLARINET]
SA[2]	SW29 VOICE [ACCORDION]	SW34 VOICE [PAD]	SW40 VOICE [SYNTH]	SW46 VOICE [ORGAN FLUTES]	SW52 VOICE [EXPANSION]	SW58 VOICE [USER DRIVE]
SA[3]	SW30 ONE TOUCH SETTING [3]	SW35 ONE TOUCH SETTING [4]	SW41 PART SELECT [LEFT]	SW47 PART SELECT [RIGHT 1]	SW53 PART SELECT [RIGHT 2]	SW59 PART SELECT [RIGHT 3]
SA[4]		SW36 PART ON/OFF [LEFT HOLD]	SW42 PART ON/OFF [LEFT]	SW48 PART ON/OFF [RIGHT 1]	SW54 PART ON/OFF [RIGHT 2]	SW60 PART ON/OFF [RIGHT 3]
SA[5]	SW31 AUDIO RECORDER PLAYER [PREV]	SW37 AUDIO RECORDER PLAYER [PLAY/PAUSE]	SW43 AUDIO RECORDER PLAYER [STOP]	SW49 AUDIO RECORDER PLAYER [NEXT]	SW55 AUDIO RECORDER PLAYER [SETTING]	SW61 AUDIO RECORDER PLAYER [SELECT]
SA[6]	SW1 MENU [VOICE CREATOR]	SW6 MENU [DIGITAL RECORDING]	SW11 AUDIO RECORDER PLAYER [REC]	SW15 VOICE [PIANO]	SW19 VOICE [E.PIANO]	SW23 VOICE [ORGAN]
SA[7]	SW2 MENU [FUNCTION]	SW7 INTERNET	SW12 MUSIC FINDER	SW16 VOICE [GUITAR]	SW20 VOICE [BASS]	SW24 VOICE [PERC./DRUM KIT]
SA[8]	SW3 REGIST BANK [-]	SW8 REGIST BANK [+]	SW13 REGISTRATION MEMORY [FREEZE]	SW18 REGISTRATION MEMORY [MEMORY]	SW21 ONE TOUCH SETTING [1]	SW25 ONE TOUCH SETTING [2]
SA[9]	SW4 REGISTRATION MEMORY [1]	SW9 REGISTRATION MEMORY [2]	SW14 REGISTRATION MEMORY [3]	SW17 REGISTRATION MEMORY [4]	SW22 REGISTRATION MEMORY [5]	SW26 REGISTRATION MEMORY [6]
SA[10]	SW5 REGISTRATION MEMORY [7]	SW10 REGISTRATION MEMORY [8]				

- LED MATRIX (PNR)

	+5LD	VSSLB		+5LD	VSSLB		+5LD	VSSLB
LC[0]	LD0 MUSIC FINDER		LC[11]	LD6 REGISTRATION MEMORY [2]		LC[22]	LD4 REGISTRATION MEMORY [7]	
LC[1]	LD20 ONE TOUCH SETTING [1]		LC[12]	LD26 REGISTRATION MEMORY [3]		LC[23]	LD7 REGISTRATION MEMORY [8]	
LC[2]	LD21 ONE TOUCH SETTING [1]		LC[13]	LD12 REGISTRATION MEMORY [3]		LC[24]	LD8 REGISTRATION MEMORY [8]	
LC[3]	LD36 ONE TOUCH SETTING [2]		LC[14]	LD13 REGISTRATION MEMORY [3]		LC[25]	LD46 PART SELECT [LEFT]	
LC[4]	LD27 ONE TOUCH SETTING [2]		LC[15]	LD16 REGISTRATION MEMORY [4]		LC[26]	LD47 PART ON/OFF [LEFT]	
LC[5]	LD34 ONE TOUCH SETTING [3]		LC[16]	LD17 REGISTRATION MEMORY [4]		LC[27]	LD5 PART SELECT [RIGHT 1]	
LC[6]	LD35 ONE TOUCH SETTING [3]		LC[17]	LD22 REGISTRATION MEMORY [5]		LC[28]	LD50 PART ON/OFF [RIGHT 1]	
LC[7]	LD39 ONE TOUCH SETTING [4]		LC[18]	LD23 REGISTRATION MEMORY [5]		LC[29]	LD56 PART SELECT [RIGHT 2]	
LC[8]	LD40 ONE TOUCH SETTING [4]		LC[19]	LD28 REGISTRATION MEMORY [6]		LC[30]	LD57 PART ON/OFF [RIGHT 2]	
LC[9]	LD1 REGISTRATION MEMORY [1]		LC[20]	LD29 REGISTRATION MEMORY [6]		LC[31]	LD61 PART SELECT [RIGHT 3]	
LC[10]	LD2 REGISTRATION MEMORY [1]		LC[21]	LD33 REGISTRATION MEMORY [7]		LC[32]	LD62 PART ON/OFF [RIGHT 3]	

- LED MATRIX (PNR)

	DA[0]	DA[1]	DA[2]	DA[3]	DA[4]	DA[5]
LA[0]	LD31 VOICE EFFECT [HARMONY/ECHO]	LD36 VOICE EFFECT [INITIAL TOUCH]	LD43 VOICE EFFECT [SUSTAIN]	LD48 VOICE EFFECT [MONO]	LD53 VOICE EFFECT [DSP]	LD58 VOICE EFFECT [VARIATION]
LA[1]	LD32 VOICE [STRINGS]	LD37 VOICE [CHOIR]	LD44 VOICE [BRASS]	LD49 VOICE [TRUMPET]	LD54 VOICE [SAXOPHONE]	LD59 VOICE [FLUTE/CLARINET]
LA[2]	LD33 VOICE [ACCORDION]	LD38 VOICE [PAD]	LD45 VOICE [SYNTH]	LD50 VOICE [ORGAN FLUTES]	LD55 VOICE [EXPANSION]	LD60 VOICE [USER DRIVE]
LA[3]		LD41 AUDIO RECORDER PLAYER [PLAY/PAUSE]	LD10 AUDIO RECORDER PLAYER [REC]	LD14 VOICE [PIANO]	LD18 VOICE [E.PIANO]	LD24 VOICE [ORGAN]
LA[4]			LD11 REGISTRATION MEMORY [FREEZE]	LD15 VOICE [GUITAR]	LD19 VOICE [BASS]	LD25 VOICE [PERC./DRUM KIT]
LA[5]		LD42 PART ON/OFF [LEFT HOLD]				LD30 READ/WRITE

×××: Not Installed

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