

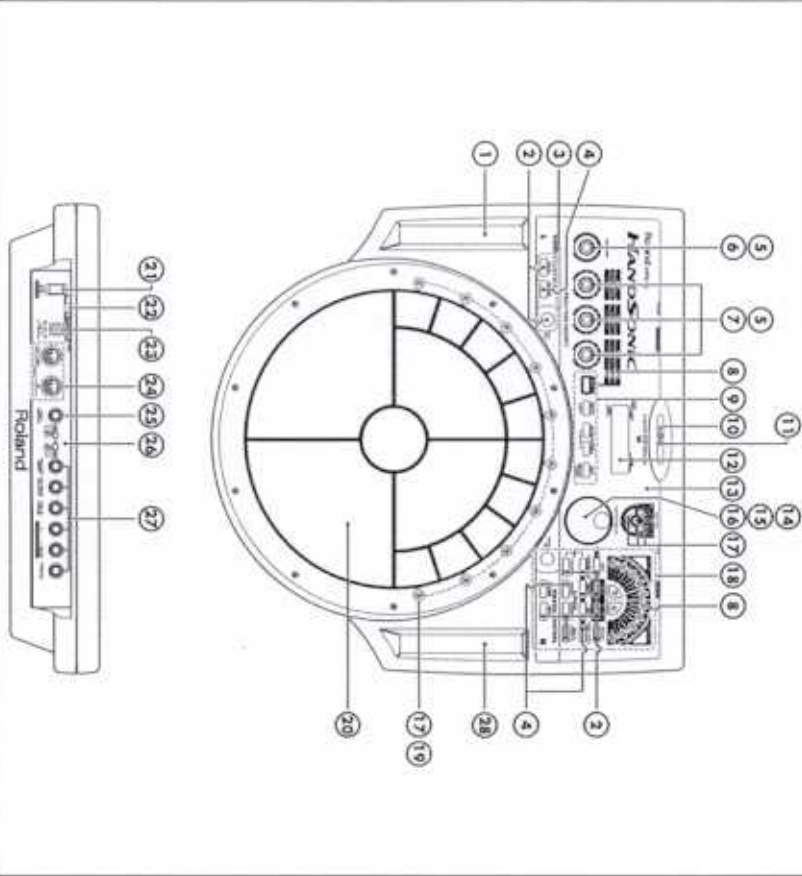
HPD-15 HANDSONIC

SERVICE NOTES First Edition Issued by RJA

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LOCATION OF CONTROLS



SPECIFICATIONS

- HPD-15: HandSonic
- Maximum Polyphony: 64 voices
- Instruments: 100
- Sampling: 48 kHz, 16-bit
- User Profiles: 34
- 80 User Presets
- 80 User Banksets
- 160
- Patch Change: 160
- Total Keys: 132 (64 per side)
- Power: 100W
- Sequencer: User Presets: 99 (Maximum)
- User Presets: 99
- Tracks: 4
- Play: 7 (Factory), OverDk, Loop, Tap
- Recorder: 28 (per quarter note)
- Tempo: 100-200
- Display: 20x2
- Controls: 20x2
- Volume Knob: 120
- Filter Knob: 120
- D Pad: 120
- Pad: 120
- Controller: 1/2 (external, Pressure-Sensitive)
- Output Jacks (L, MONO, R)
- Phones Jack (Stereo)
- Expansion Panel / 1/4-Inch Control Jack
- Trigger Input Jack (Stereo)
- MIDI Connectors (In, Out/Thru)

- Output Impedance
- 8-Axis Supply
- AC Adapter (DC 5V)
- Current Draw
- Dimensions
- 400 (W) x 400 (D) x 80 (H) mm
- 16 (W) x 16 (D) x 3.2 (H) inches
- Weight: 1.8 kg (4.0 lb)
- Accessories: Owner's Manual

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

LOCATION OF CONTROLS (PARTS LIST)

NO.	PART CODE	PART NAME	DESCRIPTION	QTY
1	7176923	REBORN CONTROLLER	REBORN (L) BODY	1
2	0180196	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
3	0180198	LED	REBORN (R) (D) (D) (D)	13
4	0134212	J.H.KNOB	TUO (D) (D) (D) (D)	4
5	0150034	20MM ROTARY POT.	EVU1 (D) (D) (D) (D)	4
6	0150034	20MM ROTARY POT.	EVU2 (D) (D) (D) (D)	4
7	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
8	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
9	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
10	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
11	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
12	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
13	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
14	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
15	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
16	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
17	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
18	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
19	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
20	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
21	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
22	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
23	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
24	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
25	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
26	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13
27	0150034	REBORN SWITCH	REBORN (R) (D) (D) (D)	13

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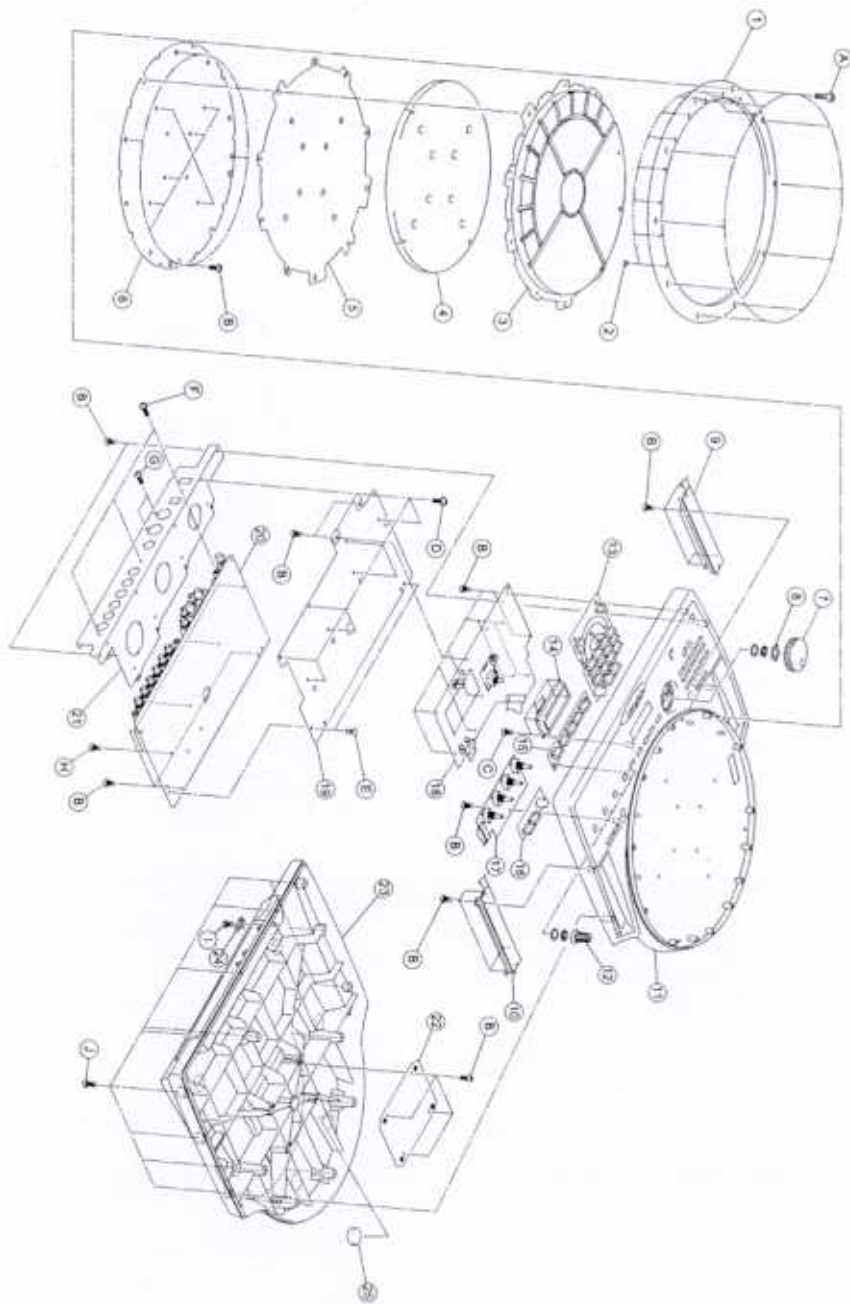
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Printed in Japan (A400) (CR) 1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A EXPLODED VIEW

[PARTS]	
No. Part Code	Part Name
B	1 01900267 PAD HOOP
B	2 01900367 LED LENS
C	3 01900212 PLAYING PLATE
C	4 01900234 CUSHION
C	5 01900245 PRESSURE SHEET SENSOR
D	6 71451034 SENSOR BOARD ASSY
D	7 22465303 D R-KNOB
D	8 40233189 RING
D	9 40233189 RING
E	10 71786834 RIBBON CONTROLLER RIBBON R ASSY
E	11 71786923 RIBBON CONTROLLER RIBBON L ASSY
E	12 01900289 TOP CASE
F	13 01343112 J-R-KNOB
F	14 01900301 RUBBER SWITCH A
F	15 01904289 LCD
F	16 01904289 LCD
F	17 01904289 LCD
F	18 01904289 LCD
F	19 01904289 LCD
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CHECKING THE VERSION NUMBER

1. Connect the AC adapter.
 2. Power on while pressing PATCH SEL and [USER]. Keep pressing them until the LCDs are lit. Then release both fingers and press [PRESET]. Take the above steps without an interval, with one second for each step.
- (1) Confirm that the displayed version is the latest version.
- The following information will be displayed on the screen.
- CPU (CPU Internal ROM) version
 - PROG (FlashMask ROM) version



SAVING DATA TO AN EXTERNAL MIDI INSTRUMENT

- The data in the HPD-15 can be transferred either singly or collectively to a sequencer (or another HPD-15). The operation of transferring this data is called a "Bulk Dump", meaning the data is called a "Bulk Load".
- 0) Setting the Device ID
- The setting described here is necessary only when you wish to transfer separate data to two or more HPD-15 units at the same time. Do not change this setting in any other case.
- At the factory setting, the Device ID is set to "17".
- 0.1) Press [SYSTEM] and make a light.
 - 0.2) Press [PARAMETER] or [PARAMETER >] to display the following screen.



- 0.3) Turn [PATCH/VALUE] to change the Device ID.
 - 0.4) When you are finished modifying, press [SYSTEM] or [EXIT].
- DEVICE ID: 1-32
- Example:
 Suppose that when data was saved via bulk dump, the HPD-15's Device ID was set to "17". When re-transferring this data back to the HPD-15, it won't receive if the Device ID is set to something other than "17".
- * If you lose track of the Device ID setting that was used when saving data via a bulk dump, it will no longer be possible to reload the bulk data that was saved.

0.3) [PATCH/VALUE]	ID	HPD-15
0.4) [SYSTEM] [EXIT]	ID	HPD-15
DEVICE ID: 1-32	ID	HPD-15
ID: 17	ID: 17	HPD-15
ID: 17	ID: 17	HPD-15

- 1) Transferring (Bulk Dump)
- The HPD-15 transmits saved data to a sequencer.
- Use a MIDI cable to connect the HPD-15's MIDI OUT connector to the MIDI IN connector of the external sequencer or the other HPD-15.
- 1.1) Press [SYSTEM] to make a light.
 - 1.2) Press [PARAMETER] or [PARAMETER >] to display the following screen.



1.3) Turn [PATCH/VALUE] to select the contents that you wish to transmit.

BADMP: ALL SYS SEQ ALL PATCH ALL GROUP1-10
U0101-1008 TEMPORARY U0101-1008-U0101-1008

ALL:
Transmit all settings.

SYS:
Transmit system settings.

SEQ ALL:
Transmit all data for the user patterns of the sequencer.

PATCH ALL:
Transmit all user patch settings.

GROUP1-10:
Transmit the settings of all patches in the selected patch group.

U0101-1008:
Transmit the settings of the selected user patch.

TEMPORARY:
Transmit the settings of the current patch. This allows you to transmit the state of the strings before pressing [WRITE] to write them into memory.

U0101-1008-U0101-1008:
Transmit the settings of the specified area of user patches.

1.4) Put the receiving sequencer in record mode. When you wish to transmit to another HPD-15, put the receiving HPD-15 in play mode.

• Refer to the owner's manual of the receiving device.

1.5) Press [WRITE] to begin data transmitting.

• If you wish to stop transmission, press [EXIT].

2) Receiving (Bulk Load)
The HPD-15 receives data that was stored in a sequencer.

Use a MIDI cable to connect the HPD-15's MIDI IN connector to the MIDI OUT connector of the external sequencer or the other HPD-15.

Set the HPD-15 play mode.

Send the data from the external sequencer to the HPD-15. The transmitted settings are reproduced.

• When data is received, the data that was previously in the HPD-15's memory will be lost.

• Set Seq Sync to "On" in [SYSTEM].

1.3) [PATCH/VALUE]

BADMP: ALL SYS SEQ ALL PATCH ALL GROUP1
10 U0101 1008 TEMPORARY U0101 1008-U0101
1008

ALL:
TEMPORARY

SYS

SEQ ALL

PATCH ALL

GROUP1 10

U0101 1008

TEMPORARY [WRITE]

U0101 1008-U0101 1008
指定した範囲のユーザーパッチの設定を送信します。

1.4) 15 HPD-15 HPD-15

1.5) [WRITE] [EXIT]

HPD-15 MIDI IN MIDI HPD-15
OUT MIDI

MIDI

シーケータの受信時、および送信したシーケータの書き込み中は絶対

Seq Sync On Seq Sync Off

RESTORING THE FACTORY SETTINGS

You can restore patch and part settings as well as pattern data stored in the HPD-15 to the settings in effect when the unit was shipped from the factory.

• All data and settings in the restored part are lost. Follow the procedures described in "Bulk Dump" to save any data and settings you need to keep to an external MIDI device.

Procedure for Factory Reset

1. Press [SYSTEM].

2. Press [PARAMETER >] to display the following screen.

3. Turn [PATCH/VALUE] to select the part that you wish to restore.

FACTORY RESET
ALL [WRITE]

FACTORY RESET: SYSTEM, CHAIN ALL, PATCH ALL, PTN ALL, ALL

SYSTEM: Restore all system settings to their factory presets.

CHAIN ALL: Erases all patch chain settings.

PATCH ALL: Restores all patch settings to their factory presets.

PTN ALL: Erases all user pattern data settings.

ALL: Restores all settings to their factory presets.

• While executing factory reset, do not turn the power off. Data in the HPD-15's memory will be corrupted.

4. Press [WRITE] to execute factory reset.

• If you decide not to execute, press [EXIT].

Necessary Items

• HPD-15 Update Disk Set (117048558)

• SMF-compatible sequencer (XP-500080, MC-80, or other models that can save exclusive data)

• The contents of the user memory must be deleted when updating completes. Before starting the updating procedure, take a backup of the user memory by doing bulk dump.

Procedure

1. Using a MIDI cable, connect the MIDI OUT terminal on the sequencer with the MIDI IN terminal on the HPD-15.

• If you take the following steps in a wrong way, the unit will start up in the normal mode.

1. [SYSTEM] [PARAMETER >]

2. [PATCH/VALUE]

3. [WRITE] [EXIT]

4. [WRITE] [EXIT]

HPD-15 Update Disk Set(117048558)

XP-500080 MC-80

シーケータの受信時、および送信したシーケータの書き込み中は絶対

Seq Sync On Seq Sync Off

HPD-15 MIDI IN MIDI HPD-15

OUT MIDI

シーケータの受信時、および送信したシーケータの書き込み中は絶対

Seq Sync On Seq Sync Off

HPD-15 Update Disk Set(117048558)

XP-500080 MC-80

シーケータの受信時、および送信したシーケータの書き込み中は絶対

Seq Sync On Seq Sync Off

HPD-15 Update Disk Set(117048558)

XP-500080 MC-80

シーケータの受信時、および送信したシーケータの書き込み中は絶対

Seq Sync On Seq Sync Off

• Operations in the test mode

- [1] Version Check
 (1) Confirm that the displayed version is the latest version.
 The following information will be displayed on the screen.
- CPU (CPU Internal ROM) version
 - PROG (FlashMask ROM) version

[1] VERSION
 CPU: 00 ROM: 00

- (2) Press [PARAMETER >] to proceed to the next test item.
 [2] Device TEST
 (1) When you press [SELECT], the test starts automatically.

[2] DEVICE
 Press [SELECT]

- The following items are checked:
- (1) Checksum check of the CPU's Internal ROM
 - (2) READWRITE check of the CPU's Internal ROM
 - (3) Checksum check of the Program ROM
 - (4) READWRITE check of the DRAM
 - (5) User READWRITE check of the FLASH ROM for the user
 - (6) READWRITE check of the EEPROM
 - (7) READWRITE check of the XPE-DSP's Internal ROM
 - (8) Check of the external DRAM for XPE
 - (9) Checksum check of the Wave ROM

If each item is OK, you proceed to the next test item automatically.

123456789
 00000000 OK

If there are NGs for some items, "x" is displayed for the corresponding items.

123456789
 x0x000000 NG x

When you press [PARAMETER >], the items which are NG are displayed.
 An arrow indicates that the previous page and the next page exist.

CPU Internal ROM
 Checksum NG ←

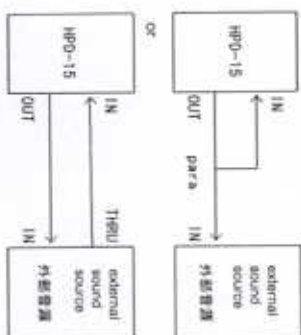
If there are multiple NGs, you can move to the next page by pressing [PARAMETER >], and to the previous page by pressing [PARAMETER <].

NG [PARAMETER <]

[PARAMETER >]

[3] MIDI TEST

- (1) Connect the HPD-15's MIDI IN/OUT with the MIDI terminals of the external sound source.



[3] MIDI TEST

- (1) HPD-15 MIDI IN/OUT

- (2) Send the Noise On/Off alternately from the HPD-15 and confirm that the foot is correct and the external sound source produces sound. There is no need to produce sound from the internal sound source. (CH 10's Note No.60 and Note4's Noise On are sent alternately from the HPD-15's MIDI OUT.)

[3] MIDI
 -- OK --

- (4) When you pull out the MIDI cable, you move to the next test item automatically.

[4] SWITCH/LED TEST

- (1) LEDs are all lit. LEDs with two colours (5 on the PATCH VALUE) (all and 10 around Patch and Patch) are lit in orange. Other LEDs are lit in red, orange or green.

- (2) When you press the switches on the panel one by one, the name of the switch being just pressed is displayed on the LCD. For the switches with LED, confirm that the LED is turned off. Confirm the sound corresponding to the switch.

- The LEDs with two colours (EXTI, [PARAMETER] and [PARAMETER >] correspond to the LEDs of Patch, PatchB and PatchC, respectively. When you press them for the first time, all LEDs of the corresponding Patch are turned to red. Pressing again, they are turned to green and then turned off.
- Pressing the [GROUP 1] (GROUP 1) switch turns the LEDs with the group numbers 1 - 5 (6 - 10) off sequentially.
- Pressing the [SELECT] switch first turns all LEDs on, then turns the LEDs on the upper line off. Pressing it again turns the LEDs on the lower line off, and then turns all LEDs off.

[GROUP 1] (GROUP 1)	GROUP NUMBER 1	5	LED
[SELECT]	GROUP NUMBER 6	10	LED
LCD			
	1		
	2		

- * Make sure to press the switches one by one. If you press two switches simultaneously, no action will be taken.

[4] SW/LED (27)
 RIBBON L HOLD

- (2) When the number of the remaining switches displayed on the LCD becomes 0, you proceed to the next test item automatically.
- [5] FOOT SWITCH TEST
 - (1) Connect the foot switches (FS-SU x2) with PCS-31.
 - (2) If you put your foot on each of the foot switches, ON/OFF is displayed. If you tread both foot switches simultaneously, it will be not detected. Make sure that you tread the switches one by one.

[5] FOOT SWITCH
F1=ON F2=OFF

- (3) If both foot switches are OK, "OK" is displayed on the right bottom, and you proceed to the next test item automatically.

- [6] ENCODER/LCD TEST
 - (1) Turn the encoder clockwise and confirm that the contrast of the LCD varies continuously. Confirm that the Group LEDs are all turned on when turned clockwise by about 360 degrees, and that they are all turned off when turned counterclockwise by about 360 degrees.

[6] ENCODER/LCD
Rotate to Right
Check CONTRAST

[6] ENCODER/LCD TEST
(1) Group LED LCD

- Contrast minimum: the lower line of the LCD consists only of underscores.
- Contrast maximum: the lower line of the LCD consists only of black squares.
- (2) Press [SELECT] and confirm that all LEDs are lit.
- (3) Press [SELECT] and confirm that all LEDs are turned off.
- * By pressing [SELECT], you can select any check item. (contrast check, LCD data all turned on, LCD data all turned off, contrast check, etc.)
- (4) If OK, press [PARAMETER >] to proceed to the next test item (you can do this only after completing the above test).

- [7] RIBBON TEST
 - (1) First, the contact of the ribbon at the initial state is checked automatically. Then press [SELECT], when values are displayed in the initial state, they show the status (OK/NG) and the voltage of each ribbon.

KL1 2.3V OR1 0.0V
OL2 ----- OR2 -----

- Label1: Right/OK: Voltage when the ribbons are in contact in the initial state
- Label2: Right/NG: Status of the ribbons
- OK: "OK", "X", "NG"
- if OK, you proceed to the next subitem automatically. If NO, you cannot proceed to the next subitem.
- (2) Start from the left ribbon. Press [SELECT] while pressing the bottom of the left ribbon.

[7] RIBBON
Presst 1 [SELECT]

- (3) Press [SELECT] while pressing the top of the left ribbon. The range in which the ribbon sensor reacts is adjusted.

[7] RIBBON
Presst 1 [SELECT]

- (4) Trace the ribbon from the bottom to the top, and check that the value varies from 0 to 127. Confirm the sound at the bottom, top and in between.

[7] RIBBON
L LEVEL = 1000

- (5) When the value has reached 127, the following is displayed. Touch the ribbon sensor up and down to check the 3rd sound is correct. If correct, press [SELECT] to proceed to the check of the right ribbon sensor.

[7] RIBBON
L LEVEL = (127)

- Subsequently, perform the same check on the right side.
- (6) If all items are OK, press [PARAMETER >] to proceed to the next test item.

[8] AND VOLUME TEST
REALTIME MODIFY : 3

- [8] AND (VOLUME) TEST
 - (1) Turn the knob counterclockwise and confirm that when you cannot turn anymore, the value is 0. Also confirm that corresponding sound is produced when turning the knob.

[8] VOLUME
1 037 ↑ 068 ↑ 062

- (2) When you cannot turn anymore, the following screen is displayed. Then turn the knob clockwise. Confirm that corresponding sound is produced while turning the knob.

[8] VOLUME
↑ 000 ↑ 000 ↑ 000

- (2) When you cannot turn anymore, the following screen is displayed.

[8] VOLUME
(127) (127) (127)

- (4) Put all the knobs to the central position (do this by adjusting the center of the knob to the scale around the knob, and not by checking the number on the LCD) and press [PARAMETER >]. When a value near 64 is displayed, it is OK, and you proceed to the next test item automatically. If not, "NG" is displayed. Readjust the knobs and press [PARAMETER >].

[8] VOLUME OK
(065) (063) (063)

- [9] EXPRESSION PEDAL TEST
(1) Connect the EV-5 (expression pedal) to the EXP PEDAL/HH CTRL terminal.

[9] EXPRESSION PEDAL TEST
(1) EXP PEDAL/HH CTRL EV-5

[9] EXP PEDAL
LEVEL = 1.82

- (2) Release the pedal. The following is displayed at the top position. Then tread the pedal. Confirm the sound at the bottom, top and in between.

[9] EXP PEDAL
LEVEL = 1.000

- (3) If the value at the bottom position is normal, the following is displayed.

[9] EXP PEDAL
LEVEL = (127) OK

- (4) If OK, press [PARAMETER >] to proceed to the next test item.

- [10] HI-HAT PEDAL
(1) Connect the PD-7 (HI-HAT control pedal) to the EXP PEDAL/HH CTRL terminal with the cable.

[10] HI-HAT PEDAL
(1) EXP PEDAL/HH CTRL PD-7

[10] HI-HAT PEDAL
LEVEL = 1.000

- (2) Confirm that the value at the bottom position of the pedal is 0.

[10] HI-HAT PEDAL
LEVEL = (127) OK

- (4) If OK, press [PARAMETER >] to proceed to the next test item.
[11] D-BEAM TEST
(1) Press [SELECT] to perform the OFF checking of D-BEAM.

[11] D-BEAM
OFF Check ing. OK

- If OK, you move to the next test item.

[11] D-BEAM
OFF Check ing. NG

- In the case of NG, you cannot proceed to the next problem.
(2) Place your hand above the D-BEAM and confirm that the value will change up to 127. Confirm the sound at the values of 0, 127 and in between. There is no problem when the minimum value is not 0.

[11] D BEAM CTRL
LEVEL = 1.000

[11] D BEAM CTRL
LEVEL = (127) OK

- (3) If OK, press [PARAMETER >] to proceed to the next test item.

[12] EXTERNAL TRIGGER IN TEST

Block 1: (TRIG2 mode)

- (1) Connect the two PD-7s to the TRIGGER INPUT using PCS-31 (the white plug of PCS-31 corresponds to the head, the red one to the rim).

- (2) Hit each PD-7 with the mallet. Confirm that the LCD display will change according to the strength of the hitting. Also confirm the difference in sound due to the weak/medium/strong hitting and head/rim.

[12] TRIGGER IN
[M] H: o R: / / /

- *o will be displayed next to 'H:head' and 'R:rim' according to the weak/medium/strong hitting.

- (3) If OK, press [SELECT] to proceed to the next subitem.

2:(HEAD/RIM) / / /

- The rim switch will be checked.
(4) Connect the PD-7 to the TRIGGER INPUT using the stereo cable.

- (5) Check the rim part of the PD-7 (take it between your fingers if the rim switch is turned on, "o" will be displayed on the screen). Confirm that the sound which is produced while the switch is on.

[12] TRIGGER IN
[M2] CHOKE...o

(6) If OK, press [PARAMETER >] to proceed to the next test item. You can proceed to the next test item with [PARAMETER >] only after detecting all triggers.

[13] PAD PRESSURE TEST

(1) The contact of the pads in the initial state is checked automatically. Then press [SELECT] without pressing any pad. If there is no problem, OK will be displayed and you proceed to the next subitem automatically. If NG, the following is displayed.

[13] PAD PRESSURE
00000000000000000000-

(6) OK [PARAMETER >] [PARAMETER >]

[13] PAD PRESSURE TEST

NG

(1) NG [SELECT]

Shows the pads A1 - A5, B1 - B5, and C1 - C5 from left to right. If there is NG, a test will be displayed. Press [PARAMETER >] to display the list of No pads and voltage.

- NG: A4 3.24V -

A1 - A5, B1 - B5, C1 - C5 Pad [PARAMETER >]

If there are multiple NGs, you can move to the next page by pressing [PARAMETER >] and to the previous page by pressing [< PARAMETER].

(2) If "OFF Check" is OK, proceed to the pressure value test.

NG [PARAMETER >] [PARAMETER >]
(2) OFF Check OK

(A) 2 -8 4 -8
1 -8 3 -7 5 -8
2 -8 3 -8 4 -8
1 -8 (B) 5 -7
2 -8 3 -8 4 -8
1 -8 (C) 5 -8

You can switch between PadSelA/B/C/D of the next target by pressing [SELECT]. When a negative value is displayed while PAD is not pressed, it is normal. It is displayed at a location corresponding to the location of the pad.

PadSelA/B/C/D [SELECT]
パッド F を押していない状態でパッドの値が出ているのが正常
Pad
LCD 押さえていない状態でパッドの値が表示されているのが正常
PadSel Pad
押さえていない状態でパッドの値が表示されているのが正常
LED

Pad A1 Pressure value 35 - 45 confirm sound (blue wave) and pad LED (green) for 90g.
Pressure value 70 - 80 confirm sound (square wave) and pad LED for 90g.
Pressure value 85 - 95 confirm sound (square wave) and pad LED (red).
Pad B, C1
Pressure value 25 - 35 confirm sound (blue wave) and pad LED (green).
Pressure value 50 - 70 confirm sound (square wave) and pad LED for 90g.
Pressure value 75 - 85 confirm sound (square wave) and pad LED (red).

*The 15 pads offer 15 pads by half time each.

The cross talk are always monitored by the software. When multiple pressure sensors react simultaneously, NG is displayed.

Cross Talk NG!
0x0000x00000000

Shows the pads A1 - A5, B1 - B5, and C1 - C5 from left to right. "x" is displayed corresponding to the pad which has reacted. When you accidentally touch multiple pads during the test, they will react. In the case of "Cross Talk NG", you can go back to the previous screen by pressing [EXIT].

(3) If OK for all pads, press [PARAMETER >] to proceed to the next test item. If there are some untested pads, they are displayed on the screen.

[EXIT]
Unchecked (A2)

A1 - A5, B1 - B5, C1 - C5 Pad
Pad 2 Pad Cross Talk NG [EXIT]

(Showing that at least the A2 pad is not checked yet)

If there are several untested pads, only the one with the smallest number is displayed here. Perform the test for the displayed pad, and then press [PARAMETER >]. When there are some more untested pads, one of them is displayed.

You can proceed to the next test item only after detecting all ranges for weak/medium/strong hitting for all pads.

[14] PAD VELOCITY TEST
(1) If you press [SELECT], the following LCD screen will be displayed.

2 000 4 000
1 000 (A-PZ) 5 000

[14] PAD VELOCITY TEST
(1) [SELECT] LCD

*"A-PZ" denotes PadZ (force sensor) of the "A Pad".
*The pads are A-1/A-2/A-4/A-5 from the left in the clockwise direction.

(2) Hit the pads A-1/A-2/A-4/A-5 (the four pads containing a pinzo sensor) with the mallet. Confirm that weak/medium/strong hitting produce different sound, and the colours of the corresponding pads change.

Weak: drum, LED is green.
Medium: tambourine, LED is orange.
Strong: coveal, LED is red.

(3) If OK for all four pads, press [PARAMETER >] to proceed to the next test item. You can proceed to the next test item only after detecting all ranges for weak/medium/strong hitting for the four pads.

(3) 4 Pad OK [PARAMETER >]
弱/中/強音全て検出しない。次項目へは進めません。

[15] SOUND TEST
(1) Confirm that there is no sound produced:

[15] SOUND TEST
(1)

[15] SOUND1 (EZ)
(Sound OFF)

(2) If you press [SELECT], some wave is output from OUTPUT's LEFT, RIGHT and PHONES. Check the sound and confirm that there is no strange sound, etc. Also confirm that the output sound volume varies when turning MASTER VOLUME.

(2) [SELECT] PHONES OUTPUT LEFT, RIGHT MASTER VOLUME

[15] SOUND1 (EZ)
-L (SineWave) R-

(3) When you press [SELECT], the same wave is output only from the L side. Confirm the sound.

(3) [SELECT] L

[15] SOUND1 (EZ)
-L (SineWave)

(4) When you press [SELECT] again, the sine wave is output only from the R side. Confirm the sound.

(4) [SELECT] R

[15] SOUND1 (EZ)
(SineWave) R-

*By pressing [SELECT], you can change the mode (sound off, sound on both sides, sound only on the L side, sound only on the R side, sound off, etc).
(5) If OK for all items, press [PARAMETER >] to proceed to the next test item. You can proceed to the next test item only after completing all checks.

(5) [PARAMETER >] OK
次のテスト項目へ進みます。すべてのチェックを完了した
[PARAMETER >]

[16] SOUND TEST 2

(1) Confirm that there is no sound produced:

[16] SOUND TEST 2
(1)

[16] SOUND2 (ADV)
(Sound OFF)

(2) If you press [SELECT], some sound is produced. Confirm that there are no strange sound. While the sound continues, press [SELECT] again to turn "SOUND" off and confirm the echo sound.

(2) [SELECT] 音が鳴ります。また、音が鳴っている間にもう一度
[SELECT] SOUND OFF

[16] SOUND2 (ADV)
(Sound ON)

(3) If OK, press [PARAMETER >] to proceed to the next test item.

(3) OK [PARAMETER >]

[17] MIX IN TEST
(1) Input the melody sound to the MIX IN terminal with the stereo cable. Confirm that the input melody sound comes out from OUTPUT unchanged.

[17] MIX IN TEST
(1) MIX IN OUTPUT

[17] MIX IN
Check Sound

(2) If OK, press [PARAMETER >] to proceed to the next test item.

(2) OK [PARAMETER >]

[18] FACTORY RESET

(1) To perform the factory reset, press [WRITE].

[18] FACTORY/RESET
(1) FACTORY RESET

When "Reset Aborted" is displayed, turn the power off.

[18] FACTORY/RESET "Reset Aborted" [WRITE] [EXIT]

[18] FACTORY RESET
[WRITE/EXIT]

(2) The reconfirming screen will be displayed. Press [WRITE]. If you press [EXIT], you go back to the audition.

(2) [EXIT] [WRITE]

Erase User Data
OK? [WRITE/EXIT]

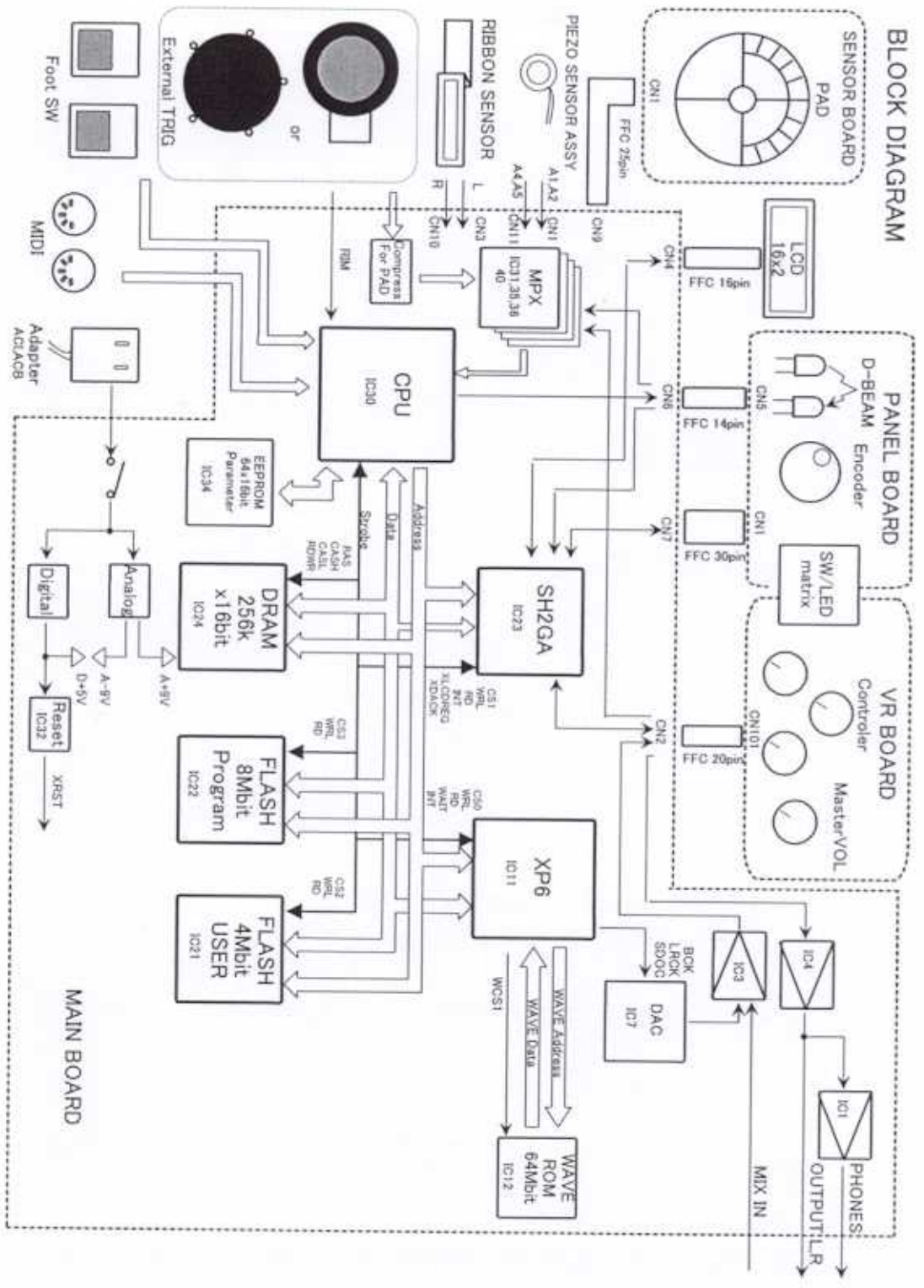
(3) Power off after confirming the display on the LCD screen.

(3) LCD

Reset Completed!
Please Power Off

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

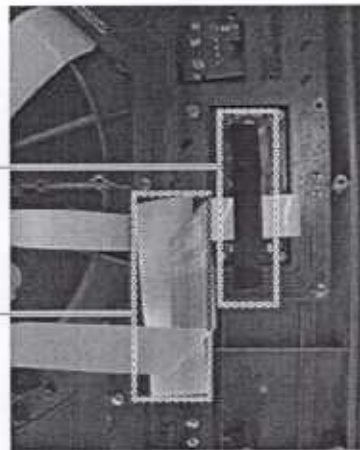
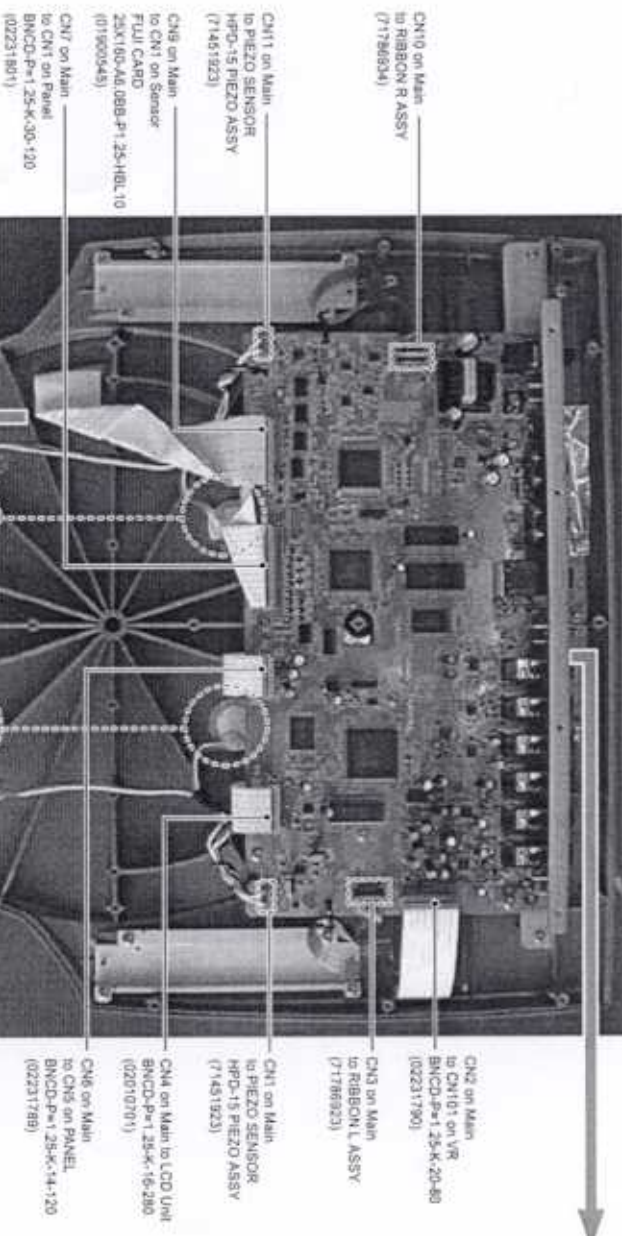
A BLOCK DIAGRAM



BLOCK DIAGRAM

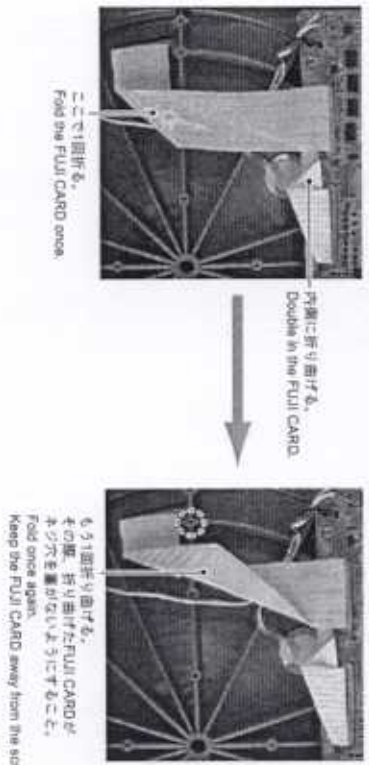
U

WIRING DIAGRAM



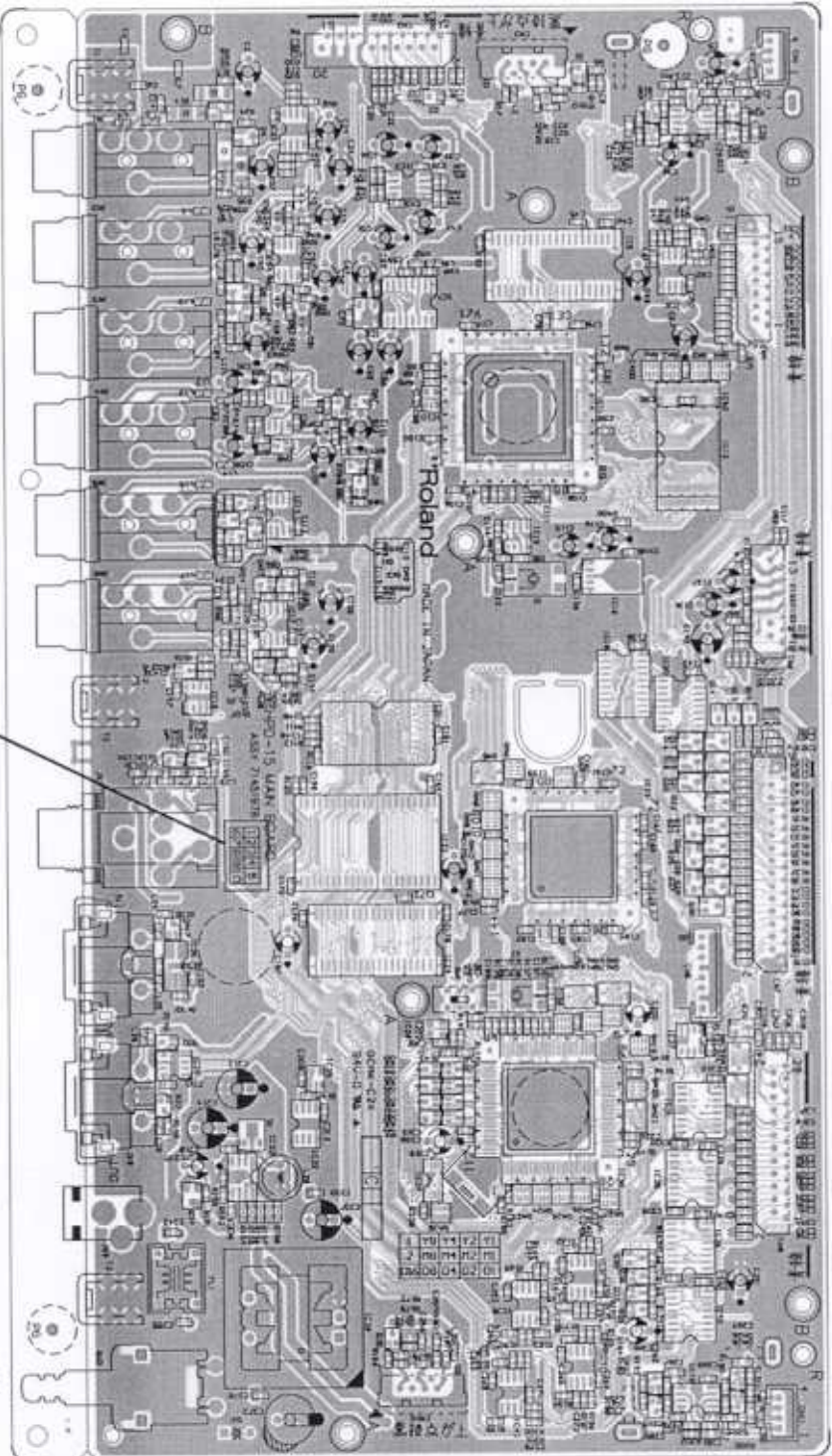
乾燥剤の湿潤テープを貼る。
 その裏、バウカー下側の湿潤
 テープの紙を剥がさないこと。
 ニットー ヴィオレットテープ #575X W20MM
 (40122556)
 Stick the double bond adhesive tape to neutralize.
 Do not unglue the paper on the slider faced to the BAN CARD.
 NITTO No. 575X W20MM (40122556)

・TOP CASEに示されている
 位置に各ワイヤで貼る。
 ・Attach the Piezo Sensors in the drop marks.
 ・ワイヤリングをTOP CASEに
 フォトリソレーションで固定する。
 ニットーテープ #5 クロ W15MM
 (40122812)
 ・Use the acetate tape to fix the wiring to the TOP CASE.
 NITTO No. 5 BLK W15MM (40122812)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A CIRCUIT BOARD
B MAIN BOARD ASSY (71451978)

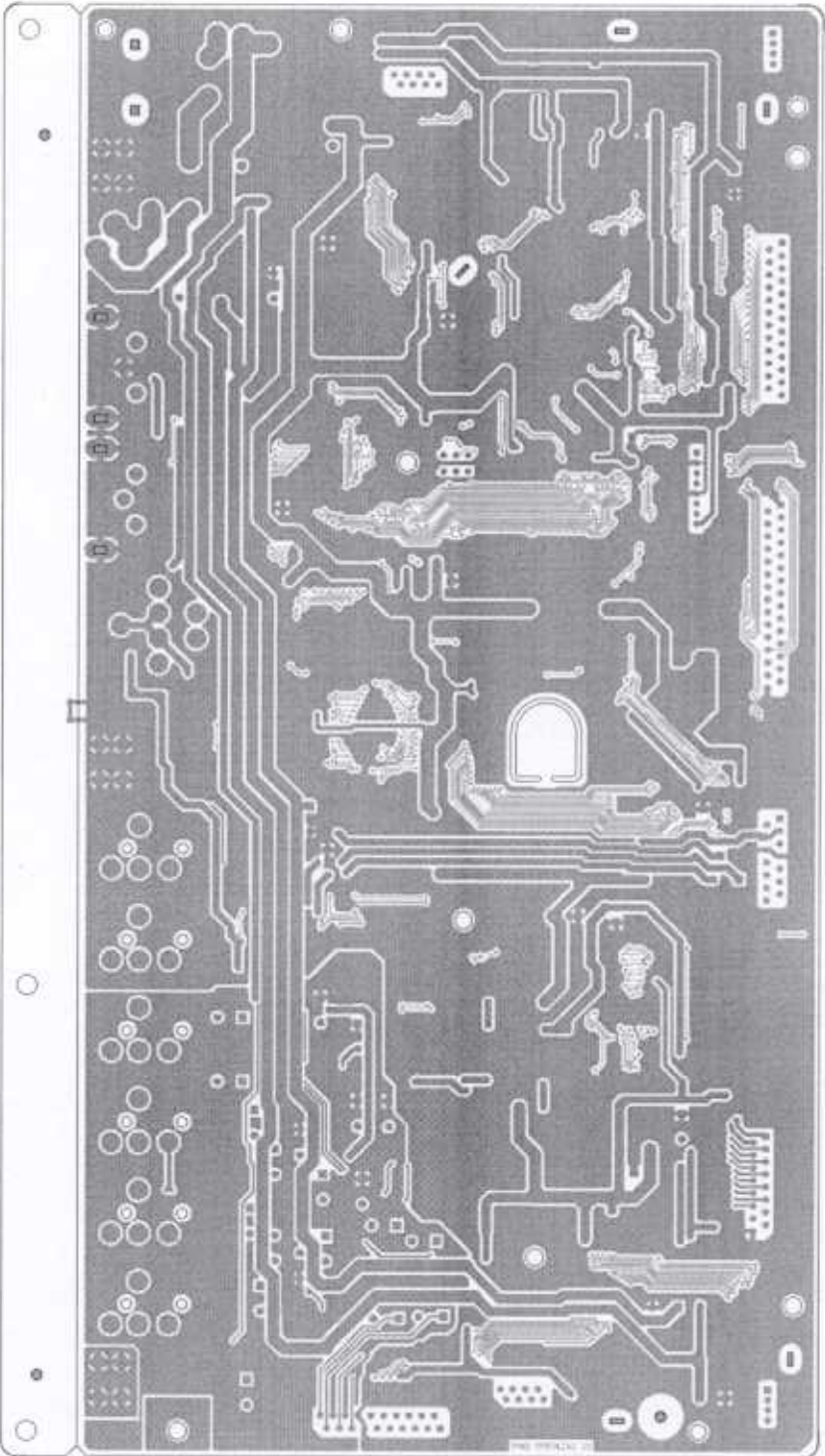


Please Exchange the Main Board Assy when you repair the Main Board without marking on this table.
 基板の修理の際、この部分にマーク印が無いものは、基板交換してください。

View from component side.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
A MAIN BOARD ASSY (71451978)

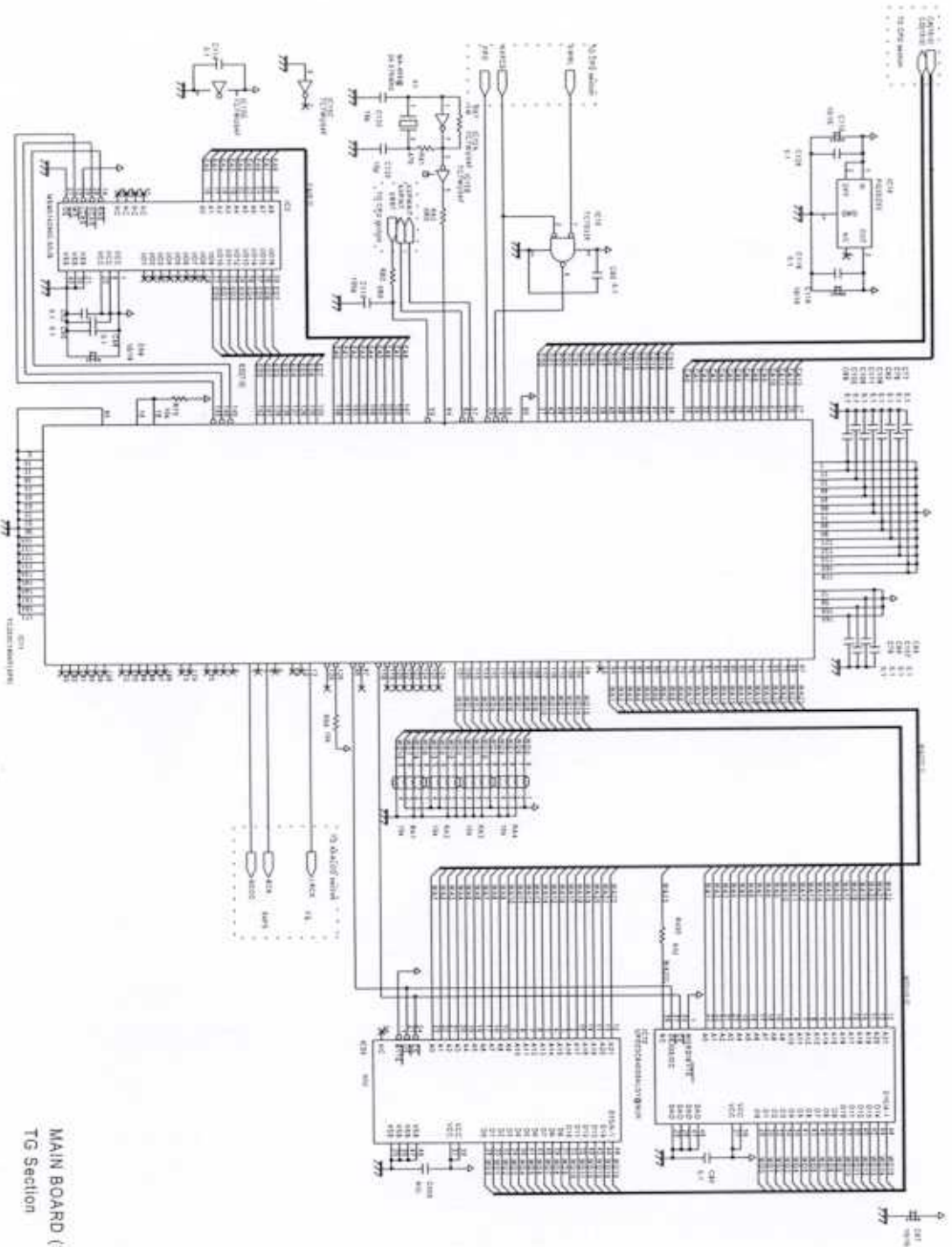
B
C
D
E
F
G
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J
K
L
M
N
O
P
Q
R
S
T
U



View from foil side.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

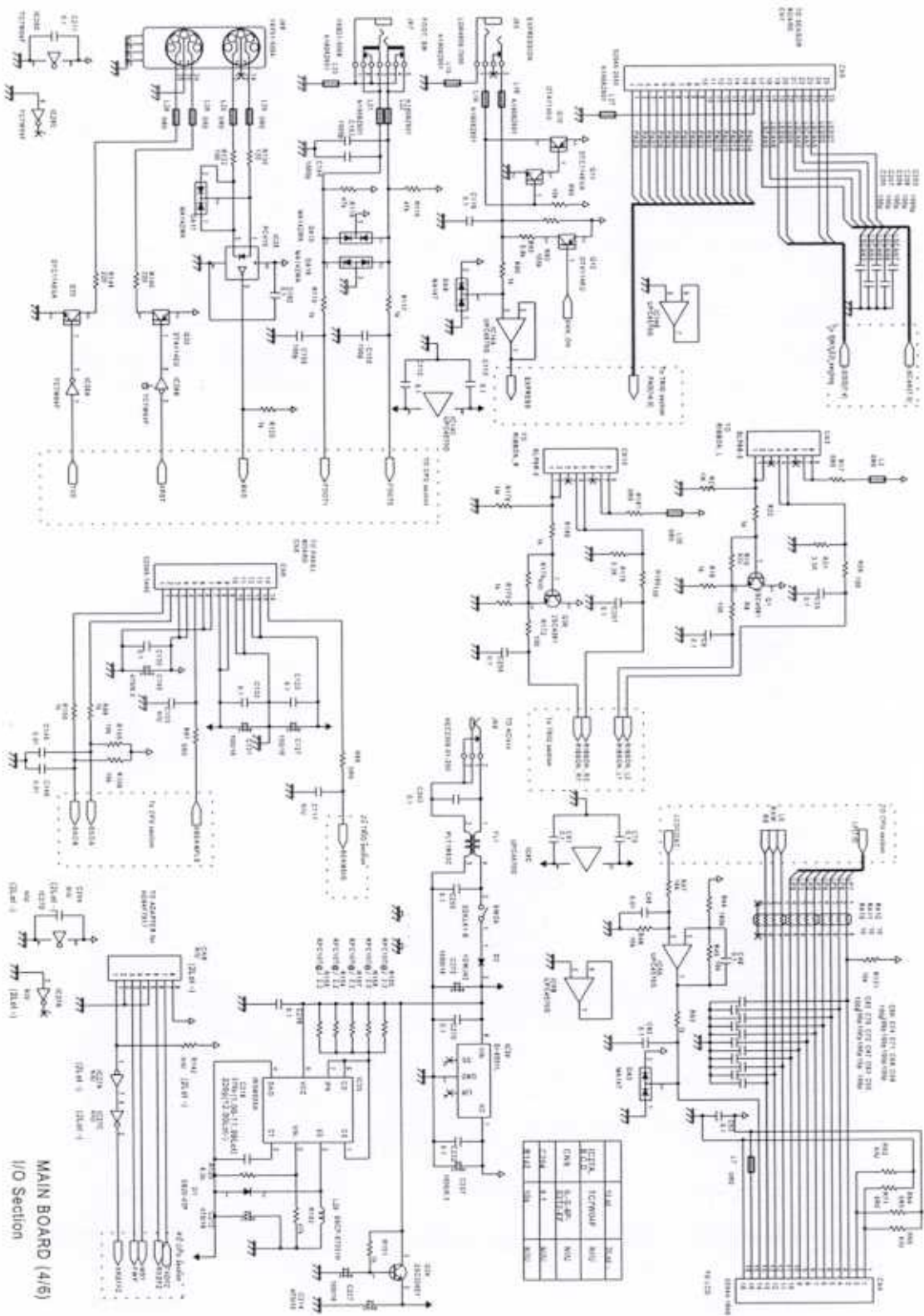
MAIN BOARD ASSY (71451978) 3/6 (TG Section)



MAIN BOARD (3/6)
TG Section

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A MAIN BOARD ASSY (71451978) 4/6 (I/O Section)

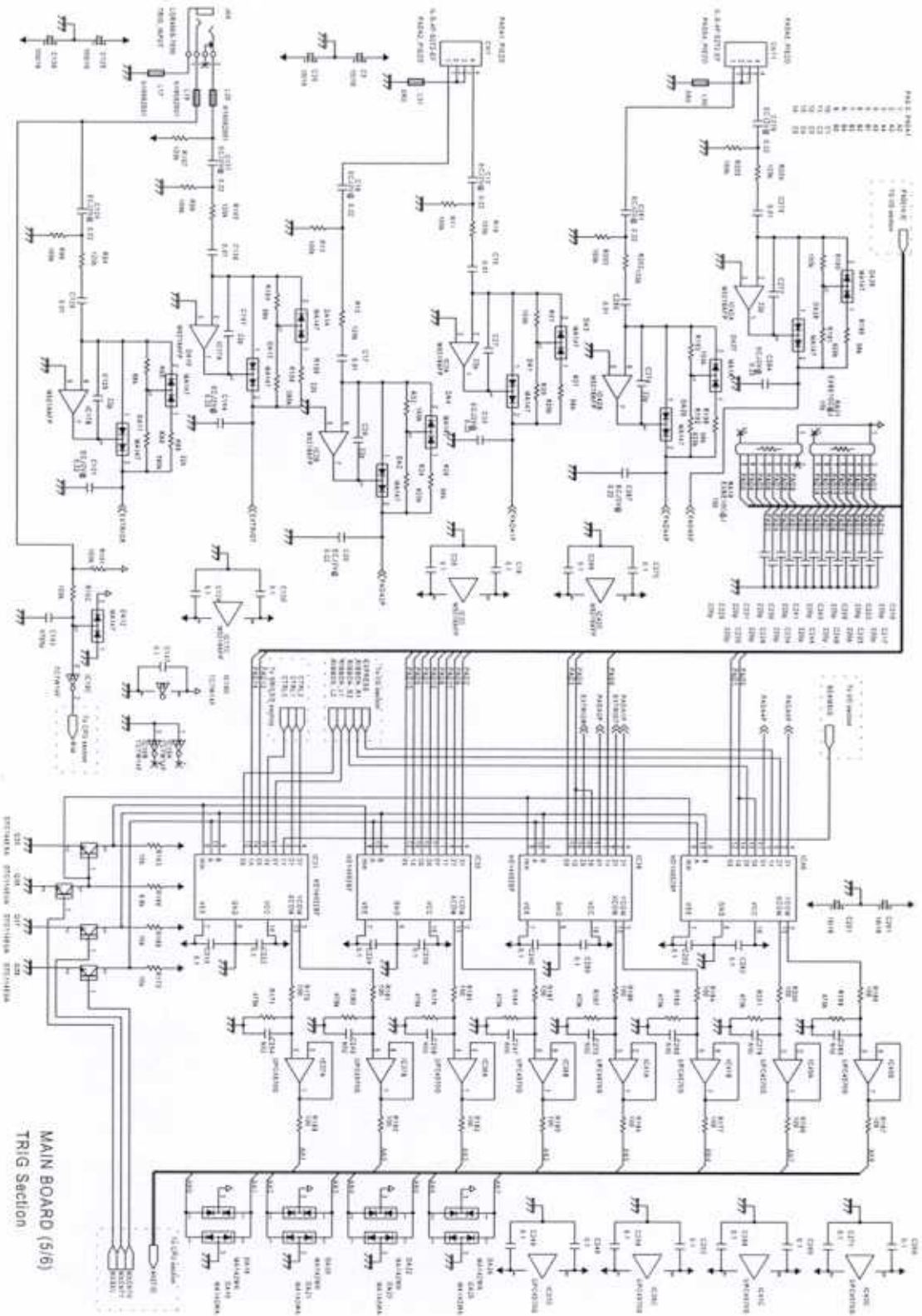


U

MAIN BOARD (4/5) I/O Section

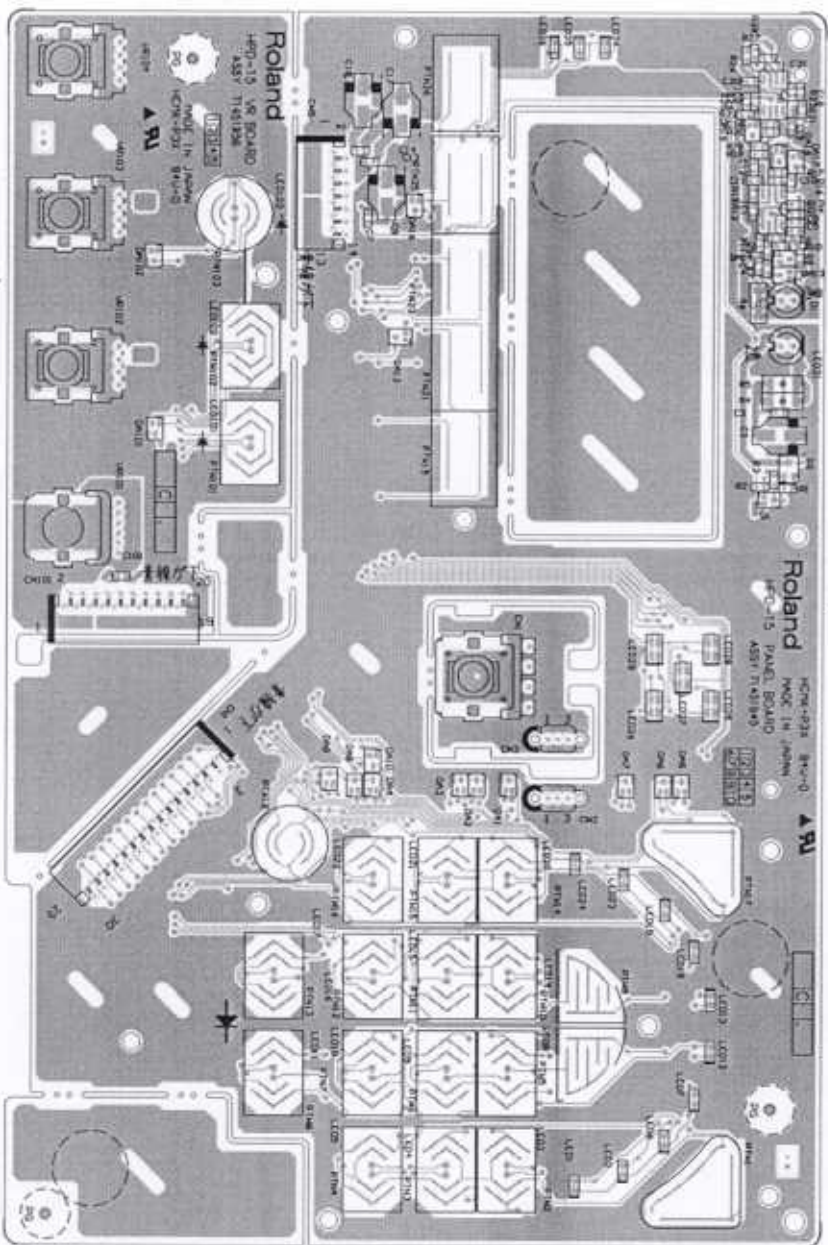
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A
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MAIN BOARD ASSY (71451978) 5/6 (TRIG Section)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

- A CIRCUIT BOARD
- B PANEL BOARD ASSY (71451945) / VR BOARD ASSY (71451956)
- C
- D
- E
- F
- G
- H
- I
- J
- K
- L
- M
- N
- O
- P
- Q
- R
- S
- T
- U



PANEL BOARD ASSY (71451945)

VR BOARD ASSY (71451956)

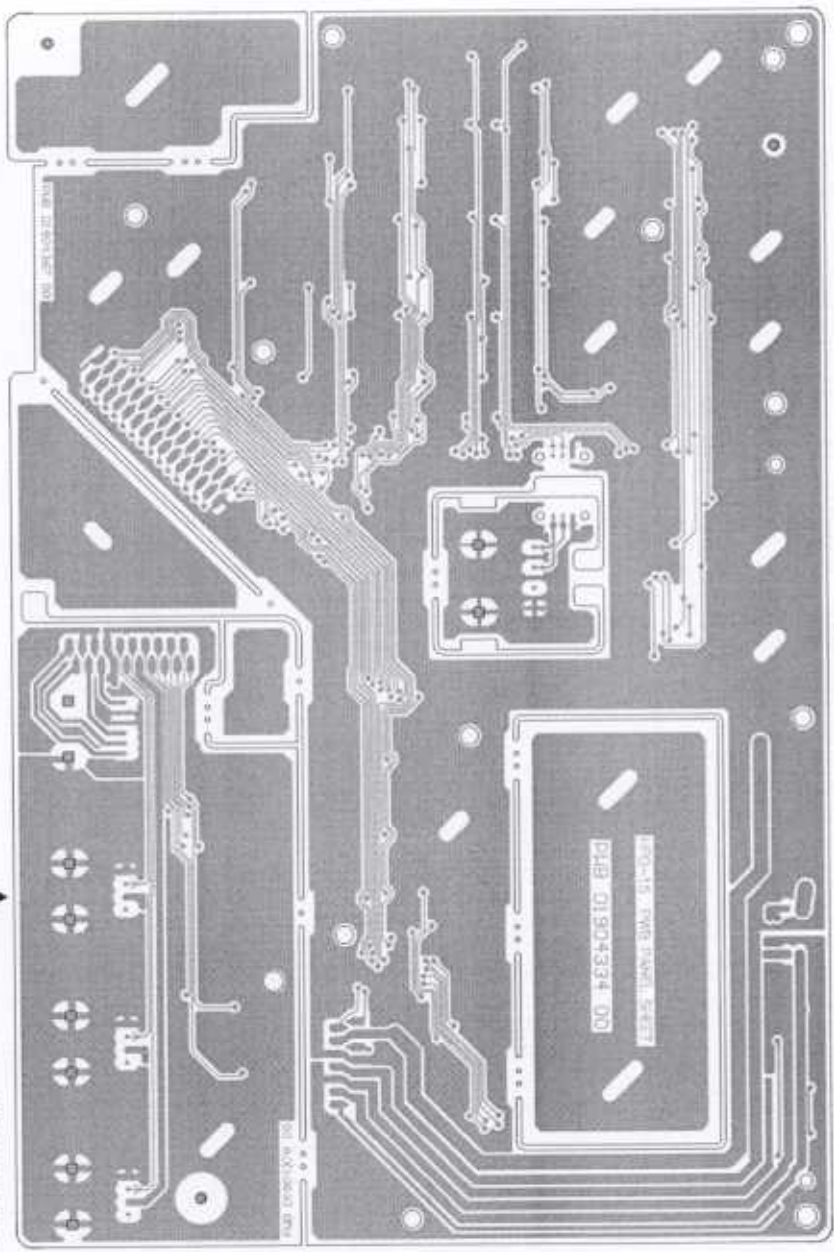
View from component side.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A PANEL BOARD ASSY (71451945) / VR BOARD ASSY (71451956)

B C D E F G H I J K L M N O P Q R S T U

PANEL BOARD ASSY (71451945)



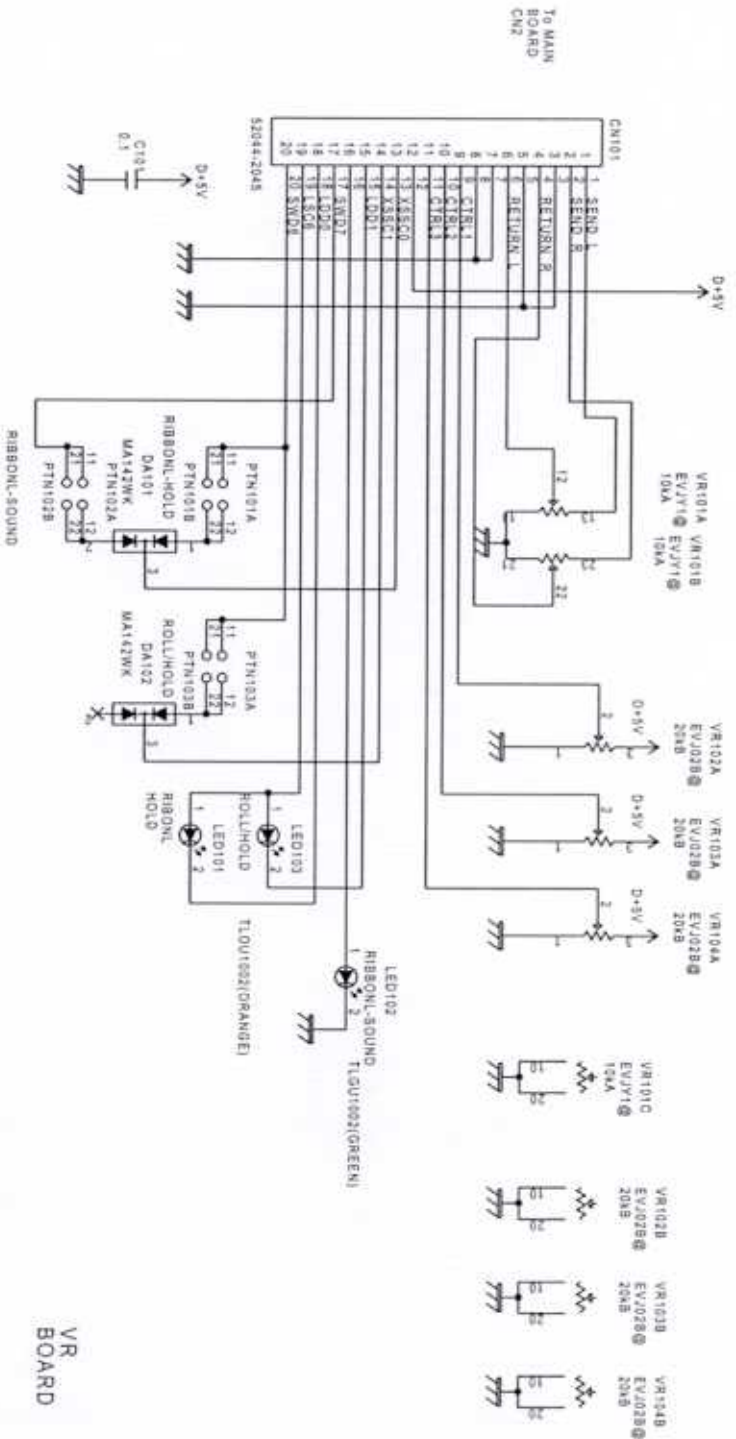
VR BOARD ASSY (71451956)



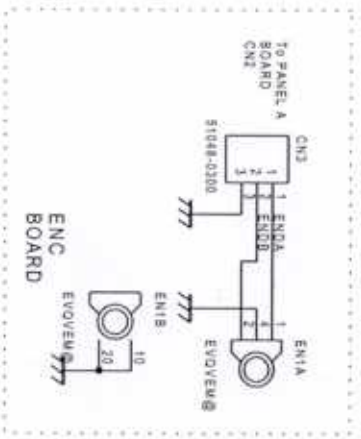
View from foil side.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A VR BOARD ASSY (71451956)



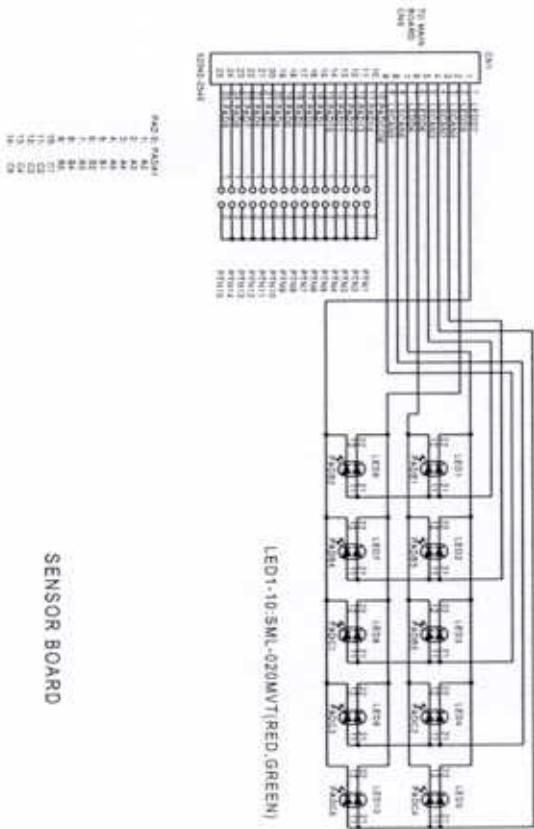
VR BOARD



VR BOARD
ENC BOARD

A B C D E F G H I J K L M N O P Q R S T U

CIRCUIT DIAGRAM SENSOR BOARD ASSY (71451934)



SENSOR BOARD

MESSAGES AND ERROR MESSAGES

This section lists the messages (error messages) that the HPD-15 produces and explains the meaning of each message, giving you the appropriate action to take.

HPD-15

Error Messages

System Error!

A problem has occurred with the internal system.
Reboot the upgrade of the program.

Memory Damaged!
[WRITE]

Data in the HPD-15's memory is corrupted. Press [WRITE] to execute factory reset.
If you turned the power off when the HPD-15 is writing data into memory, the data will be damaged. Never turn the power off while the HPD-15 is executing a writing process.

[WRITE]
メモリーへの書き込み中に電源をオフにするかメモリーの
設定が壊れることがあります。書き込み動作中は絶対に電源を
offしないでください。

No Enough Memory
Aborted!
[EXIT]

Pattern recording or editing could not be carried out because there was not enough internal memory. Press [EXIT] to try opening patterns that are no longer needed.

[EXIT]

Empty Pattern!
Aborted!

This pattern contains no performance data. It cannot be edited.

空のパターンに押し、何らかの操作を実行する必要があります。

PTN Write Error!

Writing a pattern data failed.

Max 999 Measures
Aborted!
[EXIT]

The maximum number of measures that can be recorded to one pattern has been exceeded. No further recording or editing that adds measures can be carried out. Press exit.

[EXIT]

999

PRESET PATTERN!
Select User PTN

This is a Preset pattern. It cannot be edited or recorded. Select a User pattern.

There are no empty patterns for recording. Delete unrecorded pattern or select a recorded pattern that can be used for recording.

※予選パターン・パターンを削除するか、録音済みのパターンの中からデータが書き出せるパターンを選択してください。

No Empty Pattern

Messages

Now Writing...
KEEP POWER ON!!

The HPD-15 is writing data into memory. Do not turn the power off.

Data Overload!
[EXIT]

Now Copying...
KEEP POWER ON!!

The HPD-15 is copying data. Do not turn the power off.

パターン中のデータが多すぎて、パターンが入れきれず、データの一部が書き出せません。データを減らすか、別のパターンを選択してください。

パソコン・プリンターなどから、電源を切らないでください。

BULK Receive Error!
[EXIT]

Now Exchange...
KEEP POWER ON!!

The HPD-15 is executing an exchange function. Do not turn the power off.

Reception of bulk dump failed. Press [EXIT]. Make sure that all MIDI cables are firmly connected.

[EXIT]
MIDI MIDI

Checksum Error!
[EXIT]

Now Resetting...
KEEP POWER ON!!

The HPD-15 is executing a process. Do not turn the power off.

The checksum value of a system exclusive message was incorrect. Press [EXIT].
* Correct the checksum value.

[EXIT]

MIDI Buffer Full!

MIDI

The HPD-15 is restoring the factory settings. Do not turn the power off.

BULK DATA Transmitting...

A large amount of MIDI messages were received in a short time and could not be processed completely.
* Confirm that the external MIDI device is properly connected. If the problem persists, reduce the amount of MIDI messages sent to the HPD-15.

Bulk data is now being transmitted!

MIDI Offline!!

BULK Receiving...
KEEP POWER ON!!

Bulk data is now being received. Do not turn the power off.

A MIDI cable was disconnected. (Or communication with the external MIDI device stopped for some reason.)
* Make sure that MIDI cables have not been pulled out or broken.

MIDI MIDI

Device ID is Different!

Due to an incorrect Device ID, the system exclusive message could not be received.
* Set the correct Device ID. (p. 82)

ID ID