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PANEL LAYOUT PARTS LIST/パネル配置図パワーリスト

<table>
<thead>
<tr>
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主な仕様

■ ミュージック・プレーヤー

< 音源 >
 sounds: 4 types
 metronome patterns: 11 patterns
 beats: 2/2, 3/4, 4/4, 5/4, 6/4, 7/4, 8/4, 9/8, 12/8

< 録音 >
 tracks: 369 variations (including 8 drum sets, 1 SFX set)
 1 song
 128,000 notes

< ディスプレイ >
 LCD: 600 dots × 80 dots

< アラーム >
 alarm: 8 types

< ハードウェア >
 MIDI IN, MIDI OUT connectors
 computer connector

< その他 >
 Roland Original Format (i-Format)

< 音響 >
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 alarm: 8 types

< ハードウェア >
 MIDI IN, MIDI OUT connectors
 computer connector

< その他 >
 Roland Original Format (i-Format)
EXPLODED VIEW/分解図

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<td>TOP CASE for JAPANESE</td>
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<td>TOP CASE for ENGLISH</td>
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[Screw]

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IMPORTANT: After replacing wiring, INSULATING SHEET or shifting them for replacing purpose, restore original clamping and dressing.

重要（修理等でワイヤリング、インシュレーティングシートを交換したり、位置を変えた場合には必ず元の位置に戻してください。）
WIRING DIAGRAM / ワイヤリング配線図

<CODE NUMBER TABLE>

W1  01675745
W2  01675767
W3  01675778
W4  01675789
W5  01675790
W6  01675678
W8  01675734
W9  01675756
W10 01675690
W11 01675701
W12 01675712
W13 01675689
W14 01675801
W15 01675823
W19 01894845
W20 01896656
### Parts List/Parts List

**SAFETY PRECAUTION:**

The parts marked with a safety-related character have been selected for safety reasons.

When ordering any parts, the parts marked with a safety-related character must be used.

If you are using parts that are not marked with a safety-related character, you should consider the natural environment carefully before disposing of the old lithium battery.

**NOTE 1:** The parts marked with an asterisk have safety-related characteristics.

**NOTE 2:** The parts marked with an asterisk have safety-related characteristics.

**NOTE:** Consider the natural environment carefully before disposing of the old lithium battery.

### Display Unit

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### Disk Drive Unit

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### Power Supply Unit

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<td>SWITC Regulator</td>
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### Power Board Assembly

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### CASING Case

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### Power Supply Unit

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### Power Board Assembly

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### Power Supply Unit

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# 01781923 RD30M-T1B B ZENER DIODE D3-8 on ANALOG 6
# 01459178 PLH11B8002R2P01B1 COIL FL1 on ANALOG 1
# 01566956 N2012ZA202T01 FERRITE-BEAD L1-14 on ANALOG 14
# 01121689 SPR-325MVWT31 LED (RED/GREEN) LED3-7 on PANEL L, LED301 on LED 5 + 1
# 00560745 SLR325MCT31 LED (PTR GREEN) LED2 on PANEL L 1
# 00901912 MA-406 24.576MHZ TE24 CRYSTAL X2 on MB 1
# 00894023 MA-406 20000MHZ TE24 CRYSTAL X3 on MB 1
# 00894034 MA-406 16.000MHZ TE24 CRYSTAL X1 on MB 1
# 01455623 N2012Z102T01 INDUCTOR CEA FERRITE BEADS L1-19 on MB 19
# 01453278 DE1307E 472M-KH CERAMIC CAPACITOR C134 on ANALOG 1
HOW TO UPDATE THE FLASH MEMORY

フラッシュメモリーのバージョンアップの方法

MT-300 uses Flash Memory for the main program registration. With the productions, you can make the software update by floppy disks via internal FDD. Please refer to the following "Update Procedure."

1. Insert the MT-300/S Ver. Up Disk into the disk drive.
2. Turn the power ON while holding [Tempo] and [Metronome] buttons.
3. When it is in normal condition, LCD may show “Flash ROM Update” for a moment and loading the program will be started. During the update, LCD will display as follows."

The ***** and ## part shows the working condition. Refer to the following.
***** : Reading (now loading the program)
#: Writing (now writing the program)

4. When the update procedure is normal ended, “finished” will be displayed to the LCD.

TEST MODE

テストモード

* Required Items
- MIDI Cable
- Computer Test Cable for Sound Canvas SC-88 (P/No. 17049906)
- 3.5inch Floppy Disk (Formated)
- Expression pedal EV-5
- Foot Pedal DP-6
- Microphone
- Oscilloscope
- [Metronome] buttons.

1. Entering test mode

After turning on the power, press the [Metronome] button while holding down the [Song] and [Count In] button to enter the Test Mode. The following display will appear, and you will enter test mode.

V*** : version number
B*** : build number (This is for factory use only)
*** : destination region (DOM: 100V specs, EXP: 117V/230/240V specs)
C*** : CPU build number (This is for factory use only)

* (Build number) and (CPU build number) are generally not displayed in the LCD, but some units of the initial production may display these. As this numbers are displayed for factory purpose, please ignore when you execute Test mode during the repair.

Press the [Transpose] button to move to item 2

* To advance to the next item you will generally use the [Transpose] button.

For some items, you will advance automatically, so refer to the explanation of each item.

* If you wish to exit test mode during this procedure, turn off the power.

2. Device check and display of ROM version, etc.

During the device check, the following display will appear.

1. テストモードに入る

本体電源ON後に曲のカウントインボタンを押しながらメトロノームボタンを押してください。

2. デバイス・チェックとバージョン情報の表示

デバイス・チェックの箇所は、DIOが以下のよう表示されます。
If a problem is found, the following error display will appear.

**DEVICE** (Error content)

- **Err PROGRAM ROM** Program (Flush or mask ROM) fault
- **Err DRAM** Work DRAM read/write fault
- **Err Wave ROM** Wave ROM data content fault
- **Err RAM for DSP** DSP RAM read/write fault
- **Err EEPROM** EEPROM read/write fault
- **Err DATA ROM** DATA ROM data content fault
- **Err DATA TYPE** DATA ROM type check fault
- **Err FDC EX PORT** FDC EXISTENCE PORT fault
- **Err Marker Clear** Marker clear error
- **Err Beat** Beat error
- **Err Tempo** Tempo error
- **Err Menu** Menu error

If the test results were OK, the following display will appear. (If the test result were NG, press [Transpose] to advance to next test item.)

Press the following buttons, and confirm that a sound is heard and that the button LED changes from orange to dark, and that the characters shown in the LCD disappear.

- **T** [Transpose] button
- **P** [PAN] button
- **T** [Tempo] button
- **M** [Menu] button
- **R** [Reverb] button
- **E** [Edit] button
- **D** [Disk] button
- **E** [Echo] button
- **T** [Tempo] button
- **F** [Fader] button
- **B** [Bass] button
- **S** [Sound] button
- **R** [Reverb] button
- **M** [Marker] button
- **E** [Edit] button
- **P** [Presets] button

If all buttons are normal, you will automatically advance to item 4.

### 3. Button and LED check

All LEDs will light, and the following display will appear.

![LED Display](image)

Note: If you wish to check item 3, do not press the [Transpose] button first.

If you press the [Transpose] button first, you will advance to item 4.

Once you begin the checking process for this test item, it is not possible to advance to the next test item before testing all buttons.

Press the following buttons, and confirm that a sound is heard and that the button LED goes dark.

- **[Marker A]** [Marker B] [Repeat] [Transpose] [Count In] [Metronome] [Count Out] [Rec]

Press the following button twice, and confirm that a sound is heard and that the button LED changes from orange to green to dark.

- **[R]** [Transpose] button
- **[1]** [Transpose] button
- **[2]** [Transpose] button
- **[3]** [Transpose] button
- **[4]** [Transpose] button

Press the [Transpose] button to advance to item 5.

### 5. Pedal operation check

Connect the Expression pedal and Foot pedal to the Expression Pedal and Start/Stop Jack.

LEDs of [R] [1] buttons blink red and the following display will appear.

![LED Display](image)

At this time, you can move to item 6 by pressing [Transpose].

Slowly depress the Expression pedal and confirm that the value on the LCD changes from 0 to 9, and that the metronome sound is heard when the display reaches 9. If test ends normally, [R] LED goes dark.

Depress the Foot pedal and confirm that the "OFF" displayed on the LCD and metronome sound is heard.

Next release the pedal and confirm that the "ON" displayed on the LCD. If test ends normally, [L] LED goes dark.

If no problem is found, you will automatically advance to the following item.

### 6. Encoder operation check

The following display will appear.

![LED Display](image)

Rotate the Encoder clockwise. Value in the LCD decreases and when it reaches to "30", "OK" is displayed at INC of the LCD.

Next rotate the Encoder counterclockwise. Value in the LCD increases and when it reaches to "0", "OK" is displayed at DEC of the LCD.

Press the [Transpose] button to advance to item 7.

If all buttons are normal, you will automatically advance to item 4.

### 4. Checking the effect sound and panning etc.

Connect headphone cable into PHONES jack. Move volume slider suitably.

The following display will appear and LEDs of [Track], [Count In], [Metronome] will blink red.

Press the following buttons to check the effect sound and the panning etc.

- **[R]** [Reverb] button
- **[1]** [Reverb] button
- **[2]** [Reverb] button
- **[3]** [Resonance] button
- **[4]** [Resonance] button

LEDs of [R] [1] buttons blink red and the following display will appear.

![LED Display](image)

If all buttons are normal, you will automatically advance to item 4.

### 6. Encoder operation check

The following display will appear.

![LED Display](image)

Rotate the Encoder clockwise. Value in the LCD increases and when it reaches to "30", "OK" is displayed at INC of the LCD.

Next rotate the Encoder counterclockwise. Value in the LCD decreases and when it reaches to "0", "OK" is displayed at DEC of the LCD.

Press the [Transpose] button to advance to item 7.
7. Serial interface check
The following display will appear.

```
MIDI  P-  P2-  M1
```

- **MIDI operation check**
  Set the computer switch to the MIDI position. "M" symbol will be displayed below the corresponding position (P1 or P2) in the LCD.
  Using a MIDI cable, connect the MIDI IN to the MIDI OUT located at the back of MT300S.
  If the test result is OK, the LCD will indicate "OK" as follows.

```
MIDI  P-  P2-  M1
```

8. Floppy Disk Drive check

- **Attention:** After this check, data within the disks will be lost.

```
DISK  No Disk
```

Prepare the 2DD Disk and 2HD Disk.
Insert a 2DD disk (protect ON) and check the display [2DD : Protected].
Insert a 2HD disk (protect OFF) and check the display [2HD : OK].
If an error occurs, the problems will be indicated as follows.
Unformatted—Disk did not formatted correctly.
NG—There is a failure in the disk or disk drive.
Press the [Transpose] button to proceed to item 9.

9. LCD check
When you enter this mode, the entire LCD will go dark.
Next, press the [Transpose] button and confirm that the LCD lights entirely as following.

```
; LCD check
```

```
Press the [Transpose] button again. Confirm the following display will appear in the LCD.
```

```
NG---------------There is a failure in the disk or disk drive.
Unformatted-----Disk did not formatted correctly.
If an error occurs, the problems will be indicated as follows.
OK].
```

Insert a 2HD disk (protect OFF) and check the display [2HD : Protected].
Insert a 2DD disk (protect ON) and check the display [2DD : Prepared].
Condition: The following display will appear.

```
P-  P2-  M1
```

- **Computer interface operation check**
  Connect a computer test cable (part no. 17049906) to the Computer connector located at the back of MT300S.
  Set the computer switch to Mac, PC-1 or PC-2, an underline will be displayed to the middle of "MI" in the LCD.
  Using a MIDI cable, connect the MIDI IN to the MIDI OUT.
  The following display will appear.

```
MIDI  P-  P2-  M1
```

- **MIDI operation check**
  Set the computer switch to the MIDI position. "M" symbol will be displayed below the corresponding position (P1 or P2) in the LCD.
  Using a MIDI cable, connect the MIDI IN to the MIDI OUT located at the back of MT300S.
  If the test result is OK, the LCD will indicate "OK" as follows.

```
MIDI  P-  P2-  M1
```

9. LCD check
When you enter this mode, the entire LCD will go dark.
Next, press the [Transpose] button and confirm that the LCD lights entirely as following.

```
; LCD check
```

```
Press the [Transpose] button again. Confirm the following display will appear in the LCD.
```

```
NG---------------There is a failure in the disk or disk drive.
Unformatted-----Disk did not formatted correctly.
If an error occurs, the problems will be indicated as follows.
OK].
```

Prepare the 2DD disk and 2HD disk.
Insert a 2DD disk (protect ON) and check the display [2DD : Protected].
Insert a 2HD disk (protect OFF) and check the display [2HD : OK].
If an error occurs, the problems will be indicated as follows.
Unformatted—Disk did not formatted correctly.
NG—There is a failure in the disk or disk drive.
Press the [Transpose] button to proceed to item 9.

10. Destination region setting
The following display will appear.

```
; Destination region setting
```

```
Press the [Transpose] button to proceed to item 10.
```

```
```

11. Mic check
After exiting test mode, connect a mic to the Mic In jack and rotate the knobs (Mic Volume and Mic Echo) to verify that each function operates correctly.

```
; Mic check
```

```
To exit test mode, turn off the power.
(If press the [Transpose] button here, you can jump to the first item of the Test Mode.)
```

```
END
```

- **This mode ends.**
  Prepare the 2DD disk and 2HD disk.
  Insert a 2DD disk (protect ON) and check the display [2DD : Protected].
  Insert a 2HD disk (protect OFF) and check the display [2HD : OK].
  If an error occurs, the problems will be indicated as follows.
  Unformatted—Disk did not formatted correctly.
  NG—There is a failure in the disk or disk drive.
  Press the [Transpose] button to proceed to item 9.
CIRCUIT BOARD (MAIN) /基板図
CIRCUIT BOARD (ANALOG)  / 基板図
CIRCUIT DIAGRAM (ANALOG) / 回路図
CIRCUIT BOARD (PANEL) / 基板図
CIRCUIT DIAGRAM (PANEL) /回路図 电路图

PANEL R BOARD

PANEL L BOARD

LED BOARD

ENCODER BOARD

PHONE BOARD