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<td>SPECIFICATIONS</td>
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## SPECIFICATIONS

- **AD Conversion**
  - 24-bit AD 64-times oversampling A.E. modulation
- **DA Conversion**
  - 30-bit DA 128-times oversampling A.E. modulation
- **Sampling Frequency**
  - 44.1 kHz
- **Program Memories**
  - INPUT: -10 dBm
  - RETURN: 220 mV
- **Nominal Input Level**
  - MIDI
text continues...
GT-3

PANEL LAYOUT/パネル配置図

FRONT VIEW 正面図

REAR VIEW 背面図

[Diagram with various parts labeled, including KEYTOP, DISPLAY COVER, LCD, LED, VR PEDAL, VR PLATE, SUPPORT SPRING, PEDAL SWITCH PEDAL, PEDAL FOOT, PEDAL ESCUTCHEON, PEDAL LABEL, CORD HOOK, etc.]

[Text labels in various locations on the diagram, such as "Keytop D S-KEYTOP MD3H BLK (22495279)", "LED L-31L RD (F5029117)", "Switch SKQKAB (01780101)", "LCD Cover DISPLAY COVER (G25567104)", "Knob D R-KNOB L BLK (22485303)", "Encoder EVQ VEM F01 24B (0151223)", etc.]

[Additional text in a different script at the bottom of the page, possibly indicating some form of documentation or annotation in a non-English script.]
### EXPLODED VIEW/分解图

#### PART

<table>
<thead>
<tr>
<th>NO.</th>
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<th>DESCRIPTION</th>
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<td>71205078</td>
<td>MAIN BOARD ASSY</td>
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#### Screw

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<td>DOUBLE SEMS FE ZC</td>
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<td>E-RING</td>
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<td>M-EXTERNAL TOOTH WASHER</td>
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### PARTS LIST/パーツリスト

- **NOTE1:** *1 The parts marked # are new (initial parts).
- **NOTE2:** *2 The parts marked △ have safety-related characteristics.

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<th>MODEL NUMBER</th>
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<td>Sharp key C-20/50</td>
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**SWITCHスイッチ**

- 01868512 SSKLA1-B PULL SWITCH SW1 on Main Board
- 01780161 SSKKA1 TACT SWITCH SW6-SW7 on SW Board

**DISPLAY UNIT表示ユニット**

- F5292404 WD-D16G2L-28YK LED

**POWER SUPPLY UNIT電源ユニット**

- 00852343 LCP01-3A EURO CONVERTER PLC

**PWB ASSY基板部品**

- E 71235078 MAIN BOARD ASSY
- E 71235069 SW BOARD ASSY

**IC**

- E 01780112 AK4522V IC (ADIDAS) IC12,JC14 on Main Board
- E 01675501 HD6613006P IC (CPU) IC1 on Main Board
- E 15289123 M3193AP-600C IC (RESET) IC4 on Main Board

**HYBRIDパルリスト**

- 01434856 SI-8501L IC REGULATOR IC26 on Main Board

**TRANSISTORトランジスタ**

- 15191132 2SA1156G8F (PE2) TRANSISTOR Q1 on Main Board
- 15309104 2SA1184G6 TE5SR TRANSISTOR Q16,JC17 on Main Board
- 15119023 2SB1375-O POWER TRANSISTOR Q3 on Main Board
- 15311008 2SC3324G8-TE5SR TRANSISTOR Q5 on Main Board
- 01019412 2SC230V TRANSISTOR Q101,JC102 on Main Board
- 15311007 2SC4116G6-TE5SR TRANSISTOR Q1 on Main Board
- 15311015 2SC4135A TE5S3 TRANSISTOR Q4,JC6,JC10 on Main Board
- 15298414 2SD-2012-10 X38 on Main Board
- 15321037 2SK3088GE TE5SR TRANSISTOR Q12,JC3,JC5 on Main Board
- 15329531 RN3207 TE5SR TRANSISTOR Q14 on Main Board
- 15329533 RN3207 TE5SR TRANSISTOR Q14 on Main Board

**RESISTOR抵抗**

- F5399003 10KOHM (F-RANK, 1%) CHIP RESISTOR R23 on Main Board
- F5820505 10OHM (2W) CARBON RESISTOR R201 on Main Board
- F5820507 47OHM (2W) CARBON RESISTOR R202 on Main Board
- F5820506 47OHM (2W) CHIP RESISTOR R203 on Main Board
- F5419703 6.8KOHM (F-RANK, 1%) CHIP RESISTOR R217 on Main Board
- F5419704 CRN31402 RESISTOR ARRAY R38,R48 on Main Board
- F5419705 CRN31403 RESISTOR ARRAY R39,R49 on Main Board
- F5419706 CRN31401 RESISTOR ARRAY R40 on Main Board
- F5419707 CRN31413 RESISTOR ARRAY R41 on Main Board
- F5419708 CRN31412 RESISTOR ARRAY R42 on Main Board
- 15329538 2SK3088GE TE5SR TRANSISTOR Q12,JC3,JC5 on Main Board
- 15329531 RN3207 TE5SR TRANSISTOR Q14 on Main Board

**POTENIOMETERポテンリーム**

- 01016533 2SK3088GE TE5SR TRANSISTOR Q12,JC3,JC5 on Main Board
- 15329538 2SK3088GE TE5SR TRANSISTOR Q12,JC3,JC5 on Main Board

**CAPACITORコンデンサー**

- 01128045 ERJVA7V330 CAPACITOR (VARICAP) C201 on Main Board

**INDUCTOR, COIL FILTERインダクタ, コイル, フィルター**

- 12494396 BLM171A03508F EMI FILTER L3,LC4 on Main Board
- 15329538 2SK3088GE TE5SR TRANSISTOR Q12,JC3,JC5 on Main Board

- 15329538 2SK3088GE TE5SR TRANSISTOR Q12,JC3,JC5 on Main Board
CRYSTAL, RESONATOR
00890403 MA-406 20MHZ TE24 CRYSTAL X1 on Main Board
01453167 SG-8002DC 67.7376MHZ CRYSTAL X1 on Main Board

ENCODER
01013223 EVQ VEM F01 24B POTENTIOMETER (ROTARY ENCODER) EN1 on SW Board

CONNECTOR
# 13369316 5597-14APB CONNECTOR 14P CN2 on Main Board
# 01780023 5597-18APB CONNECTOR 18P CN3 on Main Board
# F3449702 6216 014 110 808 CONNECTOR 14P CN1 on SW Board
# F3449701 6216 018 110 808 CONNECTOR 18P CN4 on SW Board
# F3449703 A2001WR2-3P CONNECTOR 3P CN4 on Main Board
# F3449701 A2541WR2-2A16NP CONNECTOR 16P CN1 on Main Board

WIRING, CABLE
# F3479101 FFC CARD 14P L=80MM BETWEEN MAIN BOARD ASSY AND SW BOARD 2 ASSY
# F3479102 FFC CARD 18P L=115MM BETWEEN MAIN BOARD ASSY AND SW BOARD 1 ASSY
# G3477140 RIBON CABLE 3P CN2,CN3 on SW Board
# G3467132 WIRING 16P L=230MM for LCD
# G3467133 WIRING 3P L=330MM CN5 on SW Board

BATTERY
125020089 CR2032 LITHIUM BATTERY 220MAH/3V

SCREWS ねじ類
# 40016067 PLAIN WASHER 6X13X1 BZC for VR PEDAL ASSY
# 40011312 SCREW M3×8 BINDING P-TITE FE BZC for MIDI JACK
# 40011278 SCREW M3×8 BINDING P-TITE FE ZC for SW BOARD ASSY
# 40019123 SCREW M3×8 BINDING S-TIGHT BZC for SW BOARD ASSY
# 40342701 SCREW M2.3×6 BINDING TAP TIGHT P BZC for LCD
# 40127689 SCREW M3×6 PAN HEAD DOUBLE SEMS FE ZC for MAIN EJECTCHION, SW BOARD ASSY
# 40011878 M3 EXTERNAL TOOTH WASHER FECM for MAIN BOARD (near CN2)
# 40016455 NUT (JACK) HAJ-0999-01-190 for MAIN BOARD (near CN2)
# 40012534 SCREW M3×6 PAN HEAD DOUBLE SEMS FE ZC for BOTTOM COVER,ADAPTOR JACK HOLDER, VR PEDAL ASSY
# 40013067 SCREW M3×8 PAN SEMS FE ZC for MAIN BOARD

PACKING
# G2267109 AC ADAPTOR PAD
# G2267108 LOWER PAD
# G2407210 PACKING CASE
# G2267107 UPPER PAD

MISCELLANEOUS その他
# G2147118 JACK COVER for JK ADAPTOR JACk on Main Board
# G2357108 BASE for BOTTOM COVER
# G2147110 BATTERY HOLDER B8-32 for VR PEDAL ASSY
# G2360712 CORD HOOK 236-712 for AC ADAPTOR CORD
# G2357110 CUSHION R for VR PEDAL ASSY
# G2357104 DISPLAY COVER LCD COVER for VR PEDAL ASSY
# G2257203 JACK COVER forJK INPUT JACK on Main Board
# G2257102 PEDAL BUTTON COVER for PEDAL SW ENCODER//LCD
# G2227101 PEDAL ESCUTCHEON for PEDAL SW ASSY
# G2217709 PEDAL FOOT for PEDAL SW ASSY
# G2217705 PEDAL LABEL(1) for PEDAL SW ASSY
# G2217706 PEDAL LABEL(2) for PEDAL SW ASSY
# G2217707 PEDAL LABEL(3) for PEDAL SW ASSY

ACCESSORIES (Standard) 購入付属品
# 00899078 AC ADAPTOR BRC-100
# 00899089 AC ADAPTOR BRC-120
# 00899090 AC ADAPTOR BRC-230
# 008999101 AC ADAPTOR BRC-240A
# G6017276 OWNER’S MANUAL ENGLISH
# G6017277 OWNER’S MANUAL JAPANESE
# G6017278 QUICK START ENGLISH
# G6017279 QUICK START JAPANESE

GLTF-3 Feb. 1999
Transmitting / receiving data via MIDI

The GT-3 can use exclusive messages to set another GT-3 to the same settings, or to transmit its settings to a device such as a sequencer for storage. The process of transmitting such data is called bulk dump, and the process of receiving such data is called bulk load.

Transmitting data (Bulk dump)
The following types of data can be transmitted. When transmitting data, you can specify the starting and ending points of the data to be sent, so only the desired data is transmitted.

- **Display Data that is transmitted**
- **System** Utility parameters
- **Quick FX** Effect setting, pedal setting and control assign setting data stored in the user.
- **#1-1 to #35-4** The setting contents of patches 1-1 to 35-4
- **Temp** The contents of the currently selected patch

< Connections >
When saving the data to a sequencer
Make connections as shown below, and set the sequencer to a condition ready to receive exclusive messages.

* For details on sequencer operation, refer to the manual for the sequencer you are using.

データのセーブとロード

データの送信 (バルク・ダンプ)
送信できるデータは次のとおりです。データを送信するときは、どのデータを送信するかを始点と終点で範囲指定するため、指定した範囲のデータだけを送信することができます。

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< Connections >
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< Connections >
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Make connections as shown below, and set the sequencer to a condition ready to receive exclusive messages.

* For details on sequencer operation, refer to the manual for the sequencer you are using.

データのセーブとロード

データの送信 (バルク・ダンプ)
送信できるデータは次のとおりです。データを送信するときは、どのデータを送信するかを始点と終点で範囲指定するため、指定した範囲のデータだけを送信することができます。

< Connections >
When saving the data to a sequencer
Make connections as shown below, and set the sequencer to a condition ready to receive exclusive messages.

* For details on sequencer operation, refer to the manual for the sequencer you are using.
When copying the data to another GT-3
Make connections as shown below, and set the device ID of both units to match.

< Transmission procedure >
1. Select "4.MIDI" with [UTILITY].
2. Use [PARAMETER] to access the following parameter (Bulk Dump) in the display.
3. Move the cursor to "starting point" with [PARAMETER], then select the data to be the starting point with the VALUE dial.
4. Move the cursor to "ending point" with [PARAMETER], then select the data to be the ending point with the VALUE dial.
5. Press [WRITE] to transmit the data.

When the transmission has been completed, the previous display will reappear.

Receiving data (Bulk load)
< Connections >
When receiving data saved on a sequencer into the GT-3
Make connections as follows. Set the GT-3 to the device ID to which it was set when transmitting the data.

< Reception procedure >
1. Select "4.MIDI" with [UTILITY].
2. Use [PARAMETER] to access the following parameter (Bulk Load) in the display.
3. Transmit data from the transmitting device. When the GT-3 receives data, the following display will appear.
4. Press [EXIT] to end the procedure.

When data reception is complete, the following display will appear.
At this time, data may continue to be received.
4. Press [EXIT] to end the procedure.
Press [EXIT], and the GT-3 responds with "Checking..." and checks the received data. When it finishes checking the data, it will return to the Play page.
Factoring settings

< TUNER >
TUNER Pitch: 440Hz
TUNER Out: Bypass

< MANUAL >
1. LM (COM/LM)
2. OD (OD/DS)
3. DD (DELAY)
4. CE (CHORUS)
5. HR (MOD
6. TU (TUNER)

< GLOBAL >
Your Setting?: Gt.Amp (Combo)
Low EQ: 0dB
High EQ: 0dB
NS Threshold: 0dB
Reverb Level: 100%

< SYSTEM >
LCD Contrast: 16
Dial Function: P.NUMBER & VALUE
SUB CTRL1 Func: Assignable
SUB CTRL2 Func: Assignable
Patch Change Mode: Wait for a Num.
BANK Extent: 85
Assign Hold: On

< MIDI >
MIDI RX Channel: 1
MIDI Omni Mode: Omni On
MIDI TX Channel: Rx
MIDI Device ID: 1
MIDI PC OUT: On
MIDI EXP OUT: 7
MIDI CTL OUT: 80
MIDI SUB CTL1 OUT: Off
MIDI SUB CTL2 OUT: Off
MIDI Map Select: Fix

< HARMONIST SCALE >
< AUTO RIFF PHRASE >

ファクトリープリセットの方法

< チューナー >

< マニュアル >
1. LM (COM/LM)
2. OD (OD/DS)
3. DD (DELAY)
4. CE (CHORUS)
5. HR (MOD
6. TU (TUNER)

< グローバル >

< システム >

< ミディ >

< ハーモニスト・スケール >
< オート・リファース・スケール >

Restoring the factory settings (Initialization)

To restore the factory settings of the GT-3, do as follows. You can initialize all settings, or only a specified section of the patch data in the user area or utility settings.

The following types of data can be initialized.

Display Data that is initialized
- System Utility parameters
- Quick FX Effect setting, pedal setting and control assign setting data stored in the user.
- #1-1 to #35-4 The setting contents of patches 1-1 to 35-4

[Procedure]

1. Turn off the power.
2. While holding [MOD] and [SFX] down, switch on the unit.
   - A display will appear, allowing you to specify the area of data you wish to initialize.
   - * If you decide not to initialize the settings, press [EXIT]. Initialization will be canceled, and the normal power-on display will appear.
3. Move the cursor to “Starting Point” with [PARAMETER], then use the VALUE dial to get the display to show the data that is the beginning point of the initialization.
4. Move the cursor to “Ending Point” with [PARAMETER], then get the display to show the endpoint of the initialization, also using the VALUE dial.
5. Press [WRITE]. The specified area of data will be initialized. The GT-3 will then be in its normal power-on state.
テストモード

注意: ユーザーのデータが入っているときは、修理する前に
必ずデータをショーケース等 (MC - 50MK2) にバック
アップしておいて下さい。 (ユーザーデータ保護の方法は
データのセーブとロードを使用して行います。) 

(2) Start from the "12. EXT OD CHECK" test.

Pressing buttons [PRE AMP/SP SIM] and [EQ], turn the power on.

Test Description

1. Display

This test first turns on all segments of LCD and LEDs.

2. LCD Contrast

Turn the [VALUE] encoder dial and verify change in LCD
contrast.

1) Turn the [VALUE] encoder dial counterclockwise until
fifteen clicks are felt. The LCD will show below.

2) Turn the [VALUE] encoder dial clockwise until fifteen
clicks are felt. The LCD will show below.

The program proceeds to the next test.

3. Switch

LCD on the left of the LCD are the name of buttons and on
the right are the location of these buttons.

Shown on the left of the LCD are the name of buttons and on
the right are the location of these buttons.

When this symbol changes to "", press the corresponding
button and the symbol "" is replaced by ""

Wrong selection calls the error message.

 herramientas requeridas

• Expression Pedal(Roland EV-5)
• MIDI cable
• Noise meter
• Oscilloscope
• Audio generator
• Blank plug

(1) Start from the "1. Display" test.

Pressing buttons [MASTER] and [PEDAL/ASSIGN], turn the power on.

The LCD will show the version of ROM firmware, for approx. 1 second.

During this 1 second, the DSP is tested.

When the DSP test is successful, the unit starts the next test.

Otherwise, it will show an error message.

Enter test mode

(1) ① 1. Display の中に始まる。

(2) 12. EXT OD CHECK の中に始まる。
Normally, the buttons should be pressed in the order given below:

1. Effect selector buttons
   From left to right and upper to lower.
2. Pedal switches
   [BANK DOWN]→[BANK UP]→[1]→[2]→[3]→[4]→[CTL]

When pressing a button associated with an LED:
(1) Make sure that the LED is lighting, and
(2) Turn off the button as pressed.

When pressing the pedal switch [1], the program proceeds to the next test.

4. EXP PEDAL

Insert EV-5 into [SUB EXP PEDAL/SUB CTL 1,2]. Set minimum volume of EV-5 zero.
Test order is the pedal on the unit and [SUB EXP PEDAL/SUB CTL 1,2].

1) Depress the pedal to the center of its travel.
   The center of the LCD will show "***".

2) Depress the pedal further to the bottom.
   The right of the LCD will show "***".

3) Fully release the pedal. The left of the LCD will show "***".

The program proceeds to the next test.

5. Battery

The LCD will show the voltage of the battery used to back up the memory.
Press the button [EXIT] to proceed to the next test.

6. MIDI IN/OUT

Hook up [MIDI IN] socket to [MIDI OUT] socket through the MIDI cable.
The display "No Connect" will be replaced by "Verify OK!", if the MIDI circuit is normal.
The program automatically proceeds to the next test.

7. OUTPUT D/A

A) Verify the rectangular waveform on the scope.
B) The signal is automatically and periodically muted.
   Check the complete muting function.
C) Turn OUTPUT control clockwise and counterclockwise and verify corresponding level changes.

The program proceeds to the next test.

検査が終了すると、自動的に次の検査に進みます。
8. DS A/D/A [GAIN LOW]

Internally generated analog test signal is converted into digital and reconvered back to analog signal in the DS circuit before being output to OUTPUT sockets.

NOTE: For the following measurements, first connect the oscilloscope to OUTPUT R. Repeat the measurement by connecting the scope to OUTPUT L (MONO) with the blank plug inserted in OUTPUT R.

8. DS A/D/A [GAIN LOW]

Press the button [EXIT] to proceed to the next test.


Follow the steps described in the test 8.

Note that the circuit gain is set to high during this test.

NOTE: For the following measurements, first connect the oscilloscope to OUTPUT R. Repeat the measurement by connecting the scope to OUTPUT L (MONO) with the blank plug inserted in OUTPUT R.


Press the button [EXIT] to proceed to the next test.

10. DS A/D/A [OVERDRIVE]

Follow the steps described in the test 8.

Note that this time the circuit being tested is OD but not DSP.

NOTE: For the following measurements, first connect the oscilloscope to OUTPUT R. Repeat the measurement by connecting the scope to OUTPUT L (MONO) with the blank plug inserted in OUTPUT R.

10. DS A/D/A [OVERDRIVE]

Press the button [EXIT] to proceed to the next test.
12. EXT OD CHECK

Check the signal path:

A) Connect the oscilloscope to either OUTPUT socket and verify rectangular output waveform.

ESP → D/A → SEND

ESP ← A/D ← RETURN

B) Insert the blank plug into RETURN socket and verify discontinued signal path.

ESP → D/A → OUTPUT (Rectangular waveform 矩形波)

NOTE: This test cannot be interrupted until one CV sweep cycle completes. (0-100-0)

NOTE: For the following measurements, first connect the oscilloscope to OUTPUT R. Repeat the measurement by connecting the scope to OUTPUT L(MONO) with the blank plug inserted in OUTPUT R.

Press the button [EXIT] to proceed to the next test.

[ Returns to Appendix ]
13. INPUT A/D

Press the button [EXIT] to proceed to the next test.

 Feed a rectangular waveform to the unit and verify the corresponding output.

NOTE: For the following measurements, first connect the oscilloscope to OUTPUT R. Repeat the measurement by connecting the scope to OUTPUT L(MONO) with the blank plug inserted in OUTPUT R.

INPUT: Rectangular Waveform (400Hz, 40mVp-p)
OUTPUT level control: MAX
Oscilloscope: 0.5V/DIV, 0.5ms/DIV

14. DSP pitch interrupt signal

14. DSP pitch interrupt signal

Interrupt signal generated at DSP is checked.

DSPで内部発生させたビッチの割り込み信号を確認します。

If the test fails, the program displays the error message and won’t proceed to the next test.

NOTE: For the following measurements, first connect the oscilloscope to OUTPUT L(MONO) with the blank plug inserted in OUTPUT R.

DSPで内部発生させたビッチの割り込み信号を確認します。

15. Noise (IN → OUT)

15. Noise (IN → OUT)

Measure the residual noise levels which must be less than -78dBm (IHF-A).

NOTE: For the following measurements, first connect the oscilloscope to OUTPUT R. Repeat the measurement by connecting the scope to OUTPUT L(MONO) with the blank plug inserted in OUTPUT R.

Measure the residual noise levels which must be less than -82dBm (IHF-A).

16. Noise (EXT)

16. Noise (EXT)

Measure the residual noise levels which must be less than -78dBm (IHF-A).

NOTE: For the following measurements, first connect the oscilloscope to OUTPUT R. Repeat the measurement by connecting the scope to OUTPUT L(MONO) with the blank plug inserted in OUTPUT R.

Measure the residual noise levels which must be less than -82dBm (IHF-A).

NOTE: For the following measurements, first connect the oscilloscope to OUTPUT L(MONO) with the blank plug inserted in OUTPUT R.

Measure the residual noise levels which must be less than -78dBm (IHF-A).

NOTE: For the following measurements, first connect the oscilloscope to OUTPUT L(MONO) with the blank plug inserted in OUTPUT R.

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Measure the residual noise levels which must be less than -82dBm (IHF-A).

NOTE: For the following measurements, first connect the oscilloscope to OUTPUT L(MONO) with the blank plug inserted in OUTPUT R.
17.Noise (DS)

NOTE: For the following measurements, first connect the oscilloscope to OUTPUT R. Repeat the measurement by connecting the scope to OUTPUT L (MONO) with the blank plug inserted in OUTPUT R.

OUTPUT level control: MAX

Measure the residual noise levels which must be less than -54dBm (JIS-A).

18.Calibrate EXP

This step sets the margin at the lowest level and the margin at the highest level.
1) Set the pedal at fully released (up) position. Keep your hand away from the pedal.
2) Press [WRITE] button and the margin at the lowest level is set.
3) Set the pedal to the bottom. Keep your hand off from the pedal.
4) Press [WRITE] button and the margin at the highest level is set.

The program proceeds to the next test.

19.Factory Load

Press [WRITE] button two times to load the factory preset data.

Press the button [EXIT] to proceed to the next test.
CIRCUIT BOARD (MAIN) / 基盤图

Apparatus containing Lithium batteries

**ADVARSEL!**
Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Lever det brugte batteri tilbage til leverandoren.

**CAUTION**
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by manufacturer. Discard used batteries according to the manufacturer's instructions.

**VAROITUS!**

For Nordic Countries

View from component side.

View from foil side.
CIRCUIT BOARD (SW BOARD)
ERROR MESSAGE

DSP Check

** Symptom:** RRAM of DSP(IC8) returns data which is different from that written to it.

```
PRAM:-- 0 IRAM:NG
DRAM:-- 0 GRAM:--
```

** Symptom:** IRAM of DSP(IC8) returns data which is different from that written to it.

```
PRAM:-- 0 IRAM:--
DRAM:-- 0 GRAM:NG
```

** Symptom:** GRAM of DSP(IC8) returns data which is different from that written to it.

```
PRAM:-- 0 IRAM:--
DRAM:-- 0 GRAM:NG
```

* Check the following parts and associated wirings.

- CPU(IC12): pins 38-45, 47-58, 29-36
- DSP(IC8): pins 68-70, 74-79, 81-88, 92-99
- ROM(IC2): (ZL70100-ZL82199), pins 3-12, 15, 17, 19, 21, 24, 26, 28, 30, 31, 34-42
- ROM(IC3): (ZL92200-ZL93199), pins 2-15, 17-23, 25-31
- SRAM(IC7): pins 2-15, 17-21, 23, 25-28, 31
- DRAM(IC9): pins 2-10, 16-19, 22-26

MIDI Check

** Symptom:** No connect MIDI IN jack to MIDI OUT jack via the MIDI cable.

```
5. MIDI IN/OUT
No Connect
```

** Symptom:** Transmitted data (MIDI OUT) and received data (MIDI IN) don't agree with each other.

```
5. MIDI IN/OUT
Verify ERROR
```

* Check the following parts and associated wirings.

- CPU(IC12): pin 16
- Resistor(R71, R72, R73)
- Capacitor(C90)
- Photo Coupler(IC23)
- Diode(D16)
- Inductor(L3, L4)

Battery Check

** Symptom:** If the battery voltage for memory back-up is "2.7V" or less, the display shows "Low".

```
4. Battery
Low
```

If no battery connected, the display shows "No Battery!!".

* Replace with a new lithium battery of the same type. If the error condition still exists, check the following parts and associated wirings.

- CPU(IC1): pin 80
- OP.Amp(IC25): pins 1-5
- Resistor(R63, R64, R65)
- Diode(D11)
- Capacitor(C86)

MIDI Check

** Symptom:** MIDI IN/OUT, No Connect

```
5. MIDI IN/OUT
No Connect
```

** Symptom:** MIDI IN/OUT, Verify ERROR

```
5. MIDI IN/OUT
Verify ERROR
```

* Check the following parts and associated wirings.

- CPU(IC1): pins 14, 28
- Resistor(R66, R67, R68, R69, R70)
- Gate IC(IC24): pins 1-4
- Transistor(Q17)
- Inductor(L3, L4)
DSP pitch interrupt signal check

Symptom: Interrupt signal generated at DSP(IC8) is not recognized.

* Check the following parts and associated wirings.
  - CPU(IC1): pin 2
  - DSP(IC8): pin 67

CHANGE INFORMATION

Rom Version UP

Effective
- ZL70100-ZL82199  IC2(FLASH MEMORY)  Ver 1.00
- ZL93200-ZL93399
- ZL92200-ZL93199  IC3(MASK ROM)     Ver 1.01
- ZL93400 up

Ver 1.01
The following improvements are incorporated.
- To reduce noises when switching a patch number.
- To change the parameter of the factory presets.

Service response
- When you meet a cram, add the following modification.
  Remove IC2(Flash Memory), Solder IC3(Mask ROM).