XP-30
Voice Expandable Synthesizer

SERVICE NOTES
Issued by RJA

First Edition

TABLE OF CONTENTS

SPECIFICATIONS.......................................................... 1

PAGE LAYOUT............................................................... 2

EXPLODED VIEW......................................................... 3

PARTS LIST................................................................. 4

IDENTIFYING THE VERSION NUMBER.......................... 7

PARTS LIST....................................................................... 4

EXPLODED VIEW........................................................... 3

PANEL LAYOUT............................................................. 2

TABLE OF CONTENTS Page

XP-30 May. 1999

SPECIFICATIONS

- Keyboard
  81 keys (with velocity, channel aftertouch)
- Number of Parts
  48 (48 in Rhythm Part)
- Maximum Polyphony
  64 voices
- Effects
  ZEP-40 kit
  Reverb: 1 (3 pps)
  Chorus: 1

- Preload Memory
  Patch: 1406 (480 same as JV-2080 + 966 from "Session," "Orchestral," and "Techno Collection")
  Performance: 68

- User Memory
  Patch: 128
  Performance: 32

- Wave Expansion Boards (sold separately)

- Arpeggiator
  45 Bytes

- Display
  40-letters, 2 lines (backlit LCD)

- Connectors
  Output Jack (L, MONO), R
  Headphone Jack
  MIDI Connectors (IN, OUT, THRU)
  Control Pedal Jack
  Memory Card Slot

- Power Supply
  AC 110 V, AC 230 V, AC 240 V

- Power Consumption
  10 W (AC 110 V), 10 W (AC 230 V), 10 W (AC 240 V)

- Dimensions
  1011 (W) × 399 (D) × 153 (H) mm
  70×14LB (W) × 10.5″ (D) × 6-1/2″ (H) inches

- Weight
  3.8 kg / 8 lbs

Accessories

- Owner’s Manual
- Power Cable
- EUR-CONVERTER PLUG ECP01-5A (PLUG FOR BRC-230T)
- CD-ROM (Sound/eXtension)

Options

Wave Expansion Boards: SR-50/SR-80 series
- SmartMedia: S2M-5 (2MB type), S4M-5 (4MB type)

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

Main Specifications:

- Box
  (L) 116 × 318 × 131 mm
  (W) 4-1/8 × 12-1/4 × 5-1/8 inches

- Weight
  7.8 kg / 17 lbs 4 oz (except Power cord)

- Power Supply
  AC 110 V, AC 230 V, AC 240 V

- Power Consumption
  10 W (AC 110 V), 10 W (AC 230 V), 10 W (AC 240 V)

- Dimensions
  1011 (W) × 399 (D) × 153 (H) mm
  70×14LB (W) × 10.5″ (D) × 6-1/2″ (H) inches

- Weight
  3.8 kg / 8 lbs

- Box
  (L) 116 × 318 × 131 mm
  (W) 4-1/8 × 12-1/4 × 5-1/8 inches

- Weight
  7.8 kg / 17 lbs 4 oz (except Power cord)
### FRONT VIEW PARTS LIST

<table>
<thead>
<tr>
<th>NO.</th>
<th>PART CODE</th>
<th>PART NAME</th>
<th>DESCRIPTION</th>
<th>Q'TY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>22485295</td>
<td>D S-KNOB</td>
<td>S BLK/LCG</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>01902078</td>
<td>X/MMP POT</td>
<td>RS0112FA</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>22485295</td>
<td>D S-KNOB</td>
<td>S BLK/LCG</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>01902067</td>
<td>X/MMP POT</td>
<td>RS0112FA</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>01783934</td>
<td>N S-KEYTOP</td>
<td>MD4H</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>01783956</td>
<td>N S-KEYTOP</td>
<td>MD4H</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>01783957</td>
<td>N S-KEYTOP</td>
<td>MD4H</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>01783949</td>
<td>N S-KEYTOP</td>
<td>MD4H</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>01783967</td>
<td>N S-KEYTOP</td>
<td>MDXH</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>01783978</td>
<td>N S-KEYTOP</td>
<td>MDXH</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>01783901</td>
<td>N S-KEYTOP</td>
<td>MDXH</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>01125890</td>
<td>D S-KEYTOP</td>
<td>S SKUFB W/LED AMBER</td>
<td>5</td>
</tr>
<tr>
<td>13</td>
<td>01784401</td>
<td>SEESAW SWITCH</td>
<td>SDDIE1-A-2 10A/250VAC</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>01785690</td>
<td>AC CORD ASSY 120V</td>
<td>YKFC55-501</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>01341178</td>
<td>CARD CONNECTOR</td>
<td>CN015S-3013-0</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>01343101</td>
<td>ESCUTCHEON</td>
<td>YKFC55-501</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>01349911</td>
<td>DIN JACK</td>
<td>YKFC55-501</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>00569278</td>
<td>JACK</td>
<td>FF-018 BLK</td>
<td>4</td>
</tr>
</tbody>
</table>

### REAR VIEW PARTS LIST

<table>
<thead>
<tr>
<th>NO.</th>
<th>PART CODE</th>
<th>PART NAME</th>
<th>DESCRIPTION</th>
<th>Q'TY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>01784401</td>
<td>SEESAW SWITCH</td>
<td>SDDIE1-A-2 10A/250VAC</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>23425743</td>
<td>AC INLET (100/230/240V)</td>
<td>INL-9 2.5/240V 2P</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>01755600</td>
<td>AC CORD ASSY 120V</td>
<td>UP-480-30/30C (IN1CONNECTOR)</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>01341178</td>
<td>CARD CONNECTOR</td>
<td>CN015S-3013-0</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>01343101</td>
<td>ESCUTCHEON</td>
<td>YKFC55-501</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>1349990</td>
<td>MIDI SOCKET</td>
<td>YKFC55-501</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>13159360</td>
<td>SLIDE SWITCH</td>
<td>YKFC55-501</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>13429911</td>
<td>DIN JACK</td>
<td>YKFC55-501</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>00569278</td>
<td>JACK</td>
<td>FF-018 BLK</td>
<td>4</td>
</tr>
</tbody>
</table>

**Front View Panel Layout**

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

**Rear View Panel Layout**

- **A**
- **B**
- **C**
- **D**
- **E**
- **F**
- **G**
- **H**
- **I**
- **J**
- **K**
- **L**
- **M**
- **N**
- **O**
- **P**
- **Q**
- **R**
- **S**
- **T**
- **U**
- **V**
### EXPLODED VIEW

#### PART

<table>
<thead>
<tr>
<th>NO.</th>
<th>PART CODE</th>
<th>PART NAME</th>
<th>DESCRIPTION</th>
<th>Q'TY</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>01783889</td>
<td>PWR SPLY HOLDER</td>
<td>SW-PS</td>
<td>1</td>
</tr>
<tr>
<td>②</td>
<td>0125209</td>
<td>INSULATING COVER</td>
<td>DU2L3B034</td>
<td>1</td>
</tr>
<tr>
<td>③</td>
<td>01785823</td>
<td>SWITCHING REGULATOR</td>
<td>SK-661-N</td>
<td>1</td>
</tr>
<tr>
<td>④</td>
<td>00126623</td>
<td>SIDE PANEL R</td>
<td>DC INLET 100/230/240V</td>
<td>1</td>
</tr>
<tr>
<td>⑤</td>
<td>7127945</td>
<td>KEYBOARD ASSY</td>
<td>INL-9 2.5A/250V 2P</td>
<td>1</td>
</tr>
<tr>
<td>⑥</td>
<td>23427343</td>
<td>AC INLET</td>
<td>DU2L3B034</td>
<td>1</td>
</tr>
<tr>
<td>⑦</td>
<td>01783912</td>
<td>TOP PANEL</td>
<td>CS-4</td>
<td>1</td>
</tr>
<tr>
<td>⑧</td>
<td>01785823</td>
<td>SWITCHING REGULATOR</td>
<td>CS-4</td>
<td>1</td>
</tr>
<tr>
<td>⑨</td>
<td>4607356</td>
<td>COATING CLIP</td>
<td>SK-861-N</td>
<td>1</td>
</tr>
<tr>
<td>⑩</td>
<td>01455990</td>
<td>POT DUST COVER</td>
<td>L BLK 248-303</td>
<td>1</td>
</tr>
<tr>
<td>⑪</td>
<td>22485303</td>
<td>D R-KNOB</td>
<td>L BLK 248-303</td>
<td>1</td>
</tr>
<tr>
<td>⑫</td>
<td>01783890</td>
<td>DISPLAY HOLDER</td>
<td>LCD UNIT OPTLX</td>
<td>1</td>
</tr>
<tr>
<td>⑬</td>
<td>00787212</td>
<td>PANEL HOLDER</td>
<td>DCM2079NY-LA-B</td>
<td>1</td>
</tr>
<tr>
<td>⑭</td>
<td>01783856</td>
<td>DISPLAY COVER</td>
<td>L BLK 248-303</td>
<td>1</td>
</tr>
<tr>
<td>⑮</td>
<td>22265900</td>
<td>PANEL HOLDER</td>
<td>PANEL C KEYTOP ASSY</td>
<td>1</td>
</tr>
<tr>
<td>⑯</td>
<td>17290367</td>
<td>PANEL C KEYTOP ASSY</td>
<td>PANEL B KEYTOP ASSY</td>
<td>1</td>
</tr>
<tr>
<td>⑰</td>
<td>17290378</td>
<td>PANEL B KEYTOP ASSY</td>
<td>PANEL A KEYTOP ASSY</td>
<td>1</td>
</tr>
<tr>
<td>⑱</td>
<td>01783901</td>
<td>POT DUST COVER</td>
<td>L30 5H (LBX100 to 2M35699)</td>
<td>1</td>
</tr>
<tr>
<td>⑲</td>
<td>2223571</td>
<td>ETC/HION 2P</td>
<td>D S-ESCT SXH BLK L=30</td>
<td>2</td>
</tr>
<tr>
<td>⑳</td>
<td>2223577</td>
<td>SVR COVER</td>
<td>D S-ESCT SXH BLK L=30</td>
<td>5</td>
</tr>
<tr>
<td>㉑</td>
<td>22485299</td>
<td>D S-KNOB</td>
<td>D S-ESCT SXH BLK L=30</td>
<td>5</td>
</tr>
<tr>
<td>㉒</td>
<td>7107078</td>
<td>BENDER UNIT</td>
<td>PB-A0113</td>
<td>1</td>
</tr>
<tr>
<td>㉓</td>
<td>00127445</td>
<td>SIDE PANEL L</td>
<td>SIDE PANEL R</td>
<td>1</td>
</tr>
<tr>
<td>㉔</td>
<td>71270023</td>
<td>PWB MAIN ASSY</td>
<td>SIDE PANEL L</td>
<td>1</td>
</tr>
<tr>
<td>㉕</td>
<td>01783878</td>
<td>EXP COVER 2H</td>
<td>PWB MAIN ASSY</td>
<td>1</td>
</tr>
<tr>
<td>㉖</td>
<td>01783845</td>
<td>BOTTOM COVER</td>
<td>PANEL C KEYTOP ASSY</td>
<td>1</td>
</tr>
<tr>
<td>㉗</td>
<td>1239139</td>
<td>RUBBER FOOT</td>
<td>FF-018 BLK</td>
<td>4</td>
</tr>
<tr>
<td>㉘</td>
<td>01783923</td>
<td>N S KEYTOP MDH</td>
<td>N S KEYTOP MDH</td>
<td>6</td>
</tr>
<tr>
<td>㉙</td>
<td>01783934</td>
<td>N S KEYTOP MDH 2</td>
<td>N S KEYTOP MDH 2</td>
<td>7</td>
</tr>
<tr>
<td>㉚</td>
<td>01783956</td>
<td>N S KEYTOP MDH 4</td>
<td>N S KEYTOP MDH 4</td>
<td>2</td>
</tr>
<tr>
<td>㉛</td>
<td>01783967</td>
<td>N S KEYTOP MXH</td>
<td>N S KEYTOP MXH</td>
<td>8</td>
</tr>
<tr>
<td>㉜</td>
<td>01783978</td>
<td>N S KEYTOP MXH</td>
<td>N S KEYTOP MXH</td>
<td>2</td>
</tr>
<tr>
<td>㉝</td>
<td>01789900</td>
<td>N S KEYTOP MXH 4</td>
<td>N S KEYTOP MXH 4</td>
<td>2</td>
</tr>
<tr>
<td>㉞</td>
<td>01785660</td>
<td>AC CORD ASSY 120V/117V (ONLY)</td>
<td>AC CORD ASSY 120V/117V (ONLY)</td>
<td>1</td>
</tr>
</tbody>
</table>

#### SCREW

<table>
<thead>
<tr>
<th>NO.</th>
<th>PART CODE</th>
<th>PART NAME</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>4001123</td>
<td>SCREW M4X6/17V (ONLY)</td>
<td>BINDING B-TIGHT BZC</td>
</tr>
<tr>
<td>②</td>
<td>40011067</td>
<td>SCREW M5X8</td>
<td>BINDING TAPITTE B FE ZC</td>
</tr>
<tr>
<td>③</td>
<td>40011090</td>
<td>SCREW M5X8</td>
<td>BINDING TAPITTE B ZC</td>
</tr>
<tr>
<td>④</td>
<td>40011101</td>
<td>SCREW M5X8</td>
<td>BINDING TAPITTE B FE ZC</td>
</tr>
<tr>
<td>⑤</td>
<td>4001123</td>
<td>SCREW M4X8</td>
<td>BINDING TAPITTE B FE ZC</td>
</tr>
<tr>
<td>⑥</td>
<td>4029734</td>
<td>SCREW M5X8</td>
<td>VWH B-TIGHT ZC</td>
</tr>
<tr>
<td>⑦</td>
<td>4001189</td>
<td>SCREW M5X8</td>
<td>PAN TAPITTE P FE ZC</td>
</tr>
<tr>
<td>⑧</td>
<td>40011201</td>
<td>SCREW M5X8</td>
<td>PAN TAPITTE P FE ZC</td>
</tr>
<tr>
<td>⑨</td>
<td>40014990</td>
<td>SCREW M5X8</td>
<td>PAN MACHINE W/SW BZC</td>
</tr>
<tr>
<td>⑩</td>
<td>40016566</td>
<td>SCREW M5X8</td>
<td>PAN MACHINE W/SW SMALL PW ZC</td>
</tr>
<tr>
<td>⑪</td>
<td>40011101</td>
<td>SCREW M5X8</td>
<td>BINDING TAPITTE B FE ZC</td>
</tr>
</tbody>
</table>

117V ONLY
CONSIDERATIONS ON PARTS ORDERING

When ordering any parts listed in the parts list, please specify the following items in the order sheet.

1. Pay attention to the assembly order and assembly method.

2. Some parts are common to different models. In this case, please specify the model number.

3. Please be aware that the parts list is subject to change without notice.

Failure to completely fill in the above items will result in delayed or even incorrect delivery of parts.

NOTE:

1. The replacement parts are not included in the parts list. If you need replacement parts, please consult the service center.

2. The parts list is subject to change without notice.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
<th>Value</th>
<th>Component Type</th>
<th>Manufacturer</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td># 15399421</td>
<td>RPC10T 103 J 1/10W</td>
<td>MTL FILM RESISTOR</td>
<td>4</td>
<td>R86,92,122,124 on MB</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td># 0178623</td>
<td>MCR50 3ZH J 100</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R95 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 1539771</td>
<td>MCR25 2ZH J 211 1/4W</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R49 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 0056756</td>
<td>RPC10T 105 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R3,5,5,3,6,6,6 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 00567245</td>
<td>RPC10T 472 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R3,3,3,3,6,6 on MB</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td># 00567465</td>
<td>RPC10T 224 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R25 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 00567501</td>
<td>RPC10T 153 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R59 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 00567087</td>
<td>RPC10T 271 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R36,76 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 00567267</td>
<td>RPC10T 682 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R38 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 00566667</td>
<td>RPC10T 100 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R81,6,7,3,4,1,47 on MB</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td># 00566092</td>
<td>RPC10T 220 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R7 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 00567034</td>
<td>RPC10T 121 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R113 on MB</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td># 01569734</td>
<td>MCR25 1ZH J 681</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R99,97 on MB</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td># 01569411</td>
<td>MCR10T 0R0 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R115 on MB</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td># 1539713</td>
<td>MCR25 2ZH J 101</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R106,119 on MB</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td># 01539419</td>
<td>RPC10T 122 J 2K OHM 1/10W</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R25 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 1539415</td>
<td>RPC10T 562 J 1/10W</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R84,90 on MB</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td># 1539952</td>
<td>MCR50 2ZH J 1/10W</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R112 on MB</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td># 01013923</td>
<td>EXBV81500V</td>
<td>RESISTOR ARRAY</td>
<td>1</td>
<td>RA57,9,11,13,19,21,24,26,</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td># 01457154</td>
<td>EXB1030VJ</td>
<td>RESISTOR ARRAY</td>
<td>1</td>
<td>RA28,31,32,38,39,40,42,</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

### RESISTOR

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
<th>Value</th>
<th>Component Type</th>
<th>Manufacturer</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td># 13749277T</td>
<td>SR25TRE 183 J</td>
<td>CARBON RESISTOR</td>
<td>1</td>
<td>R1-3 on PA</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td># 13749815T</td>
<td>SR25TRE 562 J</td>
<td>CARBON RESISTOR</td>
<td>2</td>
<td>R1-3 on PA</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td># 13749397T</td>
<td>SR25TRE 563 J</td>
<td>CARBON RESISTOR</td>
<td>1</td>
<td>R1-3 on PA</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td># 15399708</td>
<td>MCR25 2ZH J 1/20</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R1-3 on PA</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td># 00567212</td>
<td>RPC10T 332 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R32,108 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 00567201</td>
<td>RPC10T 272 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R169 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 00567378</td>
<td>RPC10T 473 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R17,2,10,114,127,139,50</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 00567112</td>
<td>RPC10T 471 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R4,8,56,105,154,156 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 00567289</td>
<td>RPC10T 103 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R15,14,17,27,37,45,41,51,54,</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td># 00567132</td>
<td>RPC10T 122 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R1-3 on PA</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td># 00567142</td>
<td>RPC10T 102 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R1-3 on PA</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td># 00567067</td>
<td>RPC10T 221 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R1-3 on PA</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td># 15399501</td>
<td>RPC10T 0R0 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R27,29 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 00567293</td>
<td>RPC10T 123 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R8,91,111,116 on MB</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td># 00567156</td>
<td>RPC10T 120 J</td>
<td>MTL FILM RESISTOR</td>
<td>1</td>
<td>R8 on MB</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

### TRANSISTOR

- XP-30 Mar. 1999
- # 1539973 | MCR25 2ZH J 101 | MTL FILM RESISTOR | 1 | R106,119 on MB | 2 |
- # 15399419 | RPC10T 122 J 2K OHM 1/10W | MTL FILM RESISTOR | 1 | R25 on MB | 1 |
- # 1539415 | RPC10T 562 J 1/10W | MTL FILM RESISTOR | 1 | R84,90 on MB | 2 |
- # 1539952 | MCR50 2ZH J 1/10W | MTL FILM RESISTOR | 1 | R112 on MB | 2 |
- # 01457154 | EXB1030VJ | RESISTOR ARRAY | 1 | RA28,31,32,38,39,40,42, | 5 |

### POTENTIOMETER

- # 01902067 | RS30112A | 3MM SLIDE POTentiometER | 4 | VR1-4 on MB | 4 |
- # 01902078 | RS30112A | 3MM SLIDE POTentiometER | 5 | VR5 on MB | 5 |

### CAPACITOR

- # 13519034B | ECKR1H0102KB5 | CERAMIC CAPACITOR | 1 | C9 on PA | 1 |
- # 13519035B | ECFR1H0102F5 | CERAMIC CAPACITOR | 1 | C17,18,20 on PA | 1 |
- # 15289105 | UPC4570G2-E2 | IC (OP AMP) | 3 | CHEMICAL CAPACITOR | C5,6,2 on PA | 2 |
- # 15399415 | RPC10T 562 J 1/10W | MTL FILM RESISTOR | 1 | R84,90 on MB | 2 |

### LED

- # 01569734 | MCR25 1ZH J 681 | MTL FILM RESISTOR | 1 | R99,97 on MB | 2 |
- # 15399411 | MCR10T 0R0 J | MTL FILM RESISTOR | 1 | R115 on MB | 2 |
- # 15399441 | MCR10T 0R0 J | MTL FILM RESISTOR | 1 | R115 on MB | 2 |
- # 1539941 | MCR10T 0R0 J | MTL FILM RESISTOR | 1 | R115 on MB | 2 |
- # 1539941 | MCR10T 0R0 J | MTL FILM RESISTOR | 1 | R115 on MB | 2 |

### RESISTOR ARRAY

- # 01013923 | EXBV81500V | RESISTOR ARRAY | 1 | RA57,9,11,13,19,21,24,26, | 4 |
- # 01457154 | EXB1030VJ | RESISTOR ARRAY | 1 | RA28,31,32,38,39,40,42, | 5 |

### CERAMIC CAPACITOR

- # 13519034B | ECKR1H0102KB5 | CERAMIC CAPACITOR | 1 | C9 on PA | 1 |
- # 13519035B | ECFR1H0102F5 | CERAMIC CAPACITOR | 1 | C17,18,20 on PA | 1 |
- # 13519036B | ECFR1H0102G5 | CERAMIC CAPACITOR | 1 | C17,18,20 on PA | 1 |
- # 13519037B | ECFR1H0102J5 | CERAMIC CAPACITOR | 1 | C17,18,20 on PA | 1 |
<table>
<thead>
<tr>
<th>INDUCTOR, COIL, FILTER</th>
<th>#</th>
<th>PART NUMBER/DESCRIPTION/QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td># 01783590</td>
<td>BLM1H601SPT</td>
<td>FERRITE-BEAD L40.41 on MB</td>
</tr>
<tr>
<td># 01783601</td>
<td>BLM2H601SPT</td>
<td>FERRITE-BEAD L26.30-35 on MB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CRYSTAL, RESONATOR</th>
<th>#</th>
<th>PART NUMBER/DESCRIPTION/QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01126267</td>
<td>MA-406 7.056MHZ</td>
<td>CRYSTAL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENCODER</th>
<th>#</th>
<th>PART NUMBER/DESCRIPTION/QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01013223</td>
<td>EVQ</td>
<td>POTENTIOMETER (ROTARY ENCODER)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CONNECTOR</th>
<th>#</th>
<th>PART NUMBER/DESCRIPTION/QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>13379157</td>
<td>IL-FPC-36SL-N</td>
<td>FFC CONNECTOR</td>
</tr>
<tr>
<td>13429299</td>
<td>51048-1000(10P)</td>
<td>CABLE HOLDER</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WIRES, CABLE</th>
<th>#</th>
<th>PART NUMBER/DESCRIPTION/QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01783842</td>
<td>W1</td>
<td>WIRE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SCREW</th>
<th>#</th>
<th>PART NUMBER/DESCRIPTION/QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>40011201</td>
<td>SCREW M3x8</td>
<td>PAN P-TITE FE BZC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PACKING</th>
<th>#</th>
<th>PART NUMBER/DESCRIPTION/QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01789678</td>
<td>PACKING CASE</td>
<td>ENGLISH</td>
</tr>
<tr>
<td>01894034</td>
<td>PACKING CASE</td>
<td>JAPANESE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACCESSORIES (STANDARD)</th>
<th>#</th>
<th>PART NUMBER/DESCRIPTION/QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01783690</td>
<td>OWNER'S MANUAL</td>
<td>ENGLISH</td>
</tr>
<tr>
<td>71236990</td>
<td>OWNER'S MANUAL</td>
<td>JAPANESE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MISCELLANEOUS</th>
<th>#</th>
<th>PART NUMBER/DESCRIPTION/QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>12569249</td>
<td>LITHIUM BATTERY CR-2032</td>
<td>220MAH/3V</td>
</tr>
<tr>
<td>01235290</td>
<td>INSULATING COVER SW-P9</td>
<td>1</td>
</tr>
<tr>
<td>12359139</td>
<td>RUBBER FOOT FF-018 BLK</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACCESSORIES (INPUT)</th>
<th>#</th>
<th>PART NUMBER/DESCRIPTION/QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>23425743</td>
<td>INL-K 25A/250V 2P</td>
<td>AC INLET (100V) 230V, 230VE, 240VA</td>
</tr>
</tbody>
</table>
IDENTIFYING THE VERSION NUMBER

1. Turn the power on while pressing [CONTROLLER], [- OCT] and [EXP A].
2. Check to enter the TEST MODE after opening display.
3. Press [UNDO/COMPARE] while holding down [SHIFT].

And LCD shows the version number of program both CPU and ROM.

<table>
<thead>
<tr>
<th>XP-30</th>
<th>CPU</th>
<th>ROM</th>
<th>Battery</th>
<th>Memory Card</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEST MODE</td>
<td>1.00</td>
<td>1.00</td>
<td>825</td>
<td>99-02-15 040</td>
</tr>
</tbody>
</table>

Saving and loading user data

1. When using Smart Media

* User data can be saved on a memory card (Smart Media). Before you begin the procedure, you must format the memory card (Smart Media). The procedure is as follows.

1. With the power turned off, insert an S2M-5 or an S4M-5 memory card (Smart Media) into the slot.
2. Turn on the power.
3. Press [UTIL/CARD].
5. Use the cursor keys to select "1:FORMAT," and press [ENTER]. The following display will appear.

CARD FORMAT

6. Press [ENTER], and the following display will appear, so press [ENTER] once again to execute the Format operation.

 CARD FORMAT | Are You Sure? YES=ENTER]/NO=EXIT |

7. When formatting is complete, the display of step 5 will reappear.

Saving user data

1. First make sure that a memory card is inserted into the memory card slot.
2. Press [UTIL/CARD].
4. The following display will appear. Press [ENTER] will appear, and the data will be saved.

* If a file of the same filename has already been written into the memory card, you will be asked whether or not you wish to overwrite the data. If you wish to keep the previous file, use the cursor keys and the numeric keys to enter a new filename before you save the data.

5. When the data has been saved, the screen of step 4 will reappear.

Loading user data

1. First make sure that a memory card is inserted into the memory card slot.

2. Press [UTIL/CARD].

3. Use the cursor keys to select "2:LOAD" in "UTIL 2," and press [ENTER].

4. The following display will appear. Verify that the filename is the same as the data that you saved, and press [ENTER] to load the data.

* If the memory card contains two or more files, use [INC] [DEC] to select the desired filename, and then load the data.

5. When the data has been loaded, the following display will appear.

2. Using bulk dump

Required items

- MIDI cable
- A sequencer that can record data (subsequently referred to as the external sequencer)

Saving user data

1. Use a MIDI cable to connect the MIDI OUT of the XP-30 to the MIDI IN of the external sequencer.

2. Set the computer select switch to the "MIDI" position, and turn on the power.

3. Press [UTIL/CARD].


5. Use CURSOR [↑][↓] to move to the "TRANSFER TO MIDI" screen, and set the parameters to Type=ALL, Block=USER.


7. Press [ENTER] to begin data transmission. When data transmission begins correctly, the following display will appear.

8. When transmission ends, the display will indicate "COMPLETE," and then the previous display will automatically reappear.

Loading user data

1. Use a MIDI cable to connect the MIDI IN connector of the XP-30 to the MIDI OUT connector of the external sequencer.

2. Set the computer select switch to the "MIDI" position and turn on the power.

3. Transmit the bulk dump from the sequencer.
Upgrading the program memory software version

The XP-30 used flash memory for its program ROM only for early lots (Serial No.ZL90100 to ZM10999). For these, the software can be upgraded by sending MIDI data (SMF data) from an external device. After the upgrade, it is necessary that a factory preset be performed. If user memory contains data that you wish to save, the data must be saved on a card before performing the backup procedure.

- **Required Items**
  - XP-30 Ver.Up Disk (2DD x4) (17048956)
  - Sequencer or Synthesizer, that can play back SMF
  - MIDI cable

[1] Defeating the block lock bit

When the XP-30 is shipped, it is protected so that the contents of the program ROM will not be rewritten accidentally. (This setting is referred to as the "protect bit.") Before the operating software can be updated, the protect bit must be turned off. If you attempt to perform the update without defeating the protect bit, an error will be displayed, and the update will be cancelled.

1. While holding down [>] (right cursor), turn on the power.
2. While continue to hold down [>, press [EXP E]. (The LCD will not display anything.)
3. Release your hand and press [ENTER], and the following display will appear.
4. Press [EXIT]. The following display will appear.
5. Press [DEC]. The following display will appear.
6. When you press [EXIT], the unit will start up with the normal PLAY screen.

バージョンアップの方法

- 初期ロット (Serial No.ZL90100 を含む) のみプログラムがフラッシュメモリに書き込むことが楽しめるように設定されています。外からデータを流すことはできません。バージョンアップは、ユーザー情報に影響を及ぼすデータが含まれている場合、カードに保存してからバージョンアップ作業を行なってください。
- **用意するもの**
  - テープ (CD-R/DVD)
  - シーケンサー/シンセサイザー
  - MIDIケーブル

ロックブロックビットの解除

- 電子音プログラムは、記録された楽曲を編集することを目的にソフトウェアの製造時に行われています。ロックブロックビットにより、他の方法では困難な変更が行えます。ロックブロックビットを解除した場合、バージョンアップは行えなくなります。これにより、変更が可能な音色が限定されます。
- 右カーソルを押しながら電源を入れます。
- 右カーソルを押し、[DEC]を押してロックビットを解除します。（ロックビットには何も表示されません）

オフセットを取得してからロックビットを解除すると、以下の画面が表示されます。

ographs, in a natural reading format.
[2] Performing the update

1. Use a MIDI cable to connect the MIDI OUT of an external sequencer to the MIDI IN of the XP-30.

2. On the XP-30, hold down [1 PIANO] while you turn on the power.

3. Continuing to hold down [1 PIANO], press [EXP B], and the following MIDI update screen will appear.

   ![MIDI Update Screen]

   **XP-30 Update [MIDI]**

   Yes → ENTER/NO → EXIT

4. When you press [ENTER], the device code of the flash memory will be displayed, and then the following display will appear.

   ![MIDI Update Screen]

   **Bk**

   Checksum = Total

   Waiting...

5. After verifying the display of step 4, use the external sequencer to playback all ".mid" files in the XP-30 Ver Update Disk 1 to 4. (The order does not matter.) While MIDI data is being received, the [PALETTE EDIT] LED will blink, and the “Waiting” display will change to “Receiving.” When the data of one file has been transmitted, the display will change to “Waiting,” and you can play back the next file.

   The update process will be simpler if you use a synthesizer that has a “chain play” function, such as the XP-80 etc. When you load the “.svc” file (chain file) from Disk 1 and play it, all ".mid" files on Disk 1 will playback automatically. When Disk 1 finishes playing, the sequencer will show an error display, so insert Disk 2 and play it. In the same way, insert Disk 3 and Disk 4.

6. After all ".mid" files on the four Ver Up disks have been played, turn the power off and back on again, and verify that the update was performed correctly.

7. Finally, perform a Factory Preset. This completes the update.

[3] Set the block lock bit

1. Perform steps 1–3 as described in section [1].

2. Press [INC]. The following display will appear.

   ![MIDI Update Screen]

   **XP-30 Update [Clear/Set Block Lock Bits]**

   Clear → DEC→ Set → INC→ No → EXIT

5. Press [EXIT], and the XP-30 will start up with the normal PLAY screen.

   ![MIDI Update Screen]

   **Bk**

   Checksum = Total

   Waiting...

[2] バージョンアップ

1. MIDIケーブルを外部シーケンサーのMIDI OUTとXP-30のMIDI INに接続します。

2. バックライトを押しながら電源を入れます。

3. 1 PIANOを押したままだ EXP Bを押すと以下のようなアップデート画面に入ります。

4. フラッシュメモリのデバイスコードを表示した後、以下の画面を表示します。

5. フラッシュメモリのデバイスコードを押すとフラッシュメモリのバージョンアップを開始します。

6. バージョンアップが完了したら、バージョンアップ画面が表示されます。

7. ファクトリープリセットを実行します。以上でバージョンアップが終了です。

[3] ブロックロックビットのセット

1. ブロックロックビットを解除します。

2. ブロックロックビットの設定を行います。

   この際、以下の画面が表示されます。

   ![MIDI Update Screen]

   **Bk**

   Checksum = Total

   Waiting...

5. ファクトリープリセットを実行します。以上でバージョンアップが終了です。
テ스트モード

テストモード入力のユーザデータは消去される場合があります。必ずデータのバックアップを行って下さい。

カルテテストを行うとカードの内容は失われてしまいます。カードテスト専用のカードを使用してください。

電源に入れたままだメモリーカードの抜き差しを行うと、メモリーカードを破損する可能性があります。メモリーカードの抜き差しは必ず電源を切った状態で行ってください。

注: 2枚のウェブエクスパンションボードを電源を入れる前に、あらかじめ本体に装着してください。全2枚は個別に装着できます。同様にカードも購入できます。

コンピュータテストケーブルについて

テストモードでテストを行う際に、コネクタごとのテストを行う必要がある。これらのテストを行う前に、コネクタの状態を確認してください。通常、コネクタの状態は、ピンを抜き差しすることにより確認できます。ピンを抜き差しすると、ピンの状態により、各テストが正常に実行されるかが確認できます。

テスト項目

テストメニューには以下のテストがあります。

- メモリーテスト
- ディスクリュートテスト
- ステップボタンテスト
- LEDテスト
- カードテスト
- パソコンテスト
- 動作確認テスト
- ファクトリーリセット

各テスト項目の詳細については、テストメニューの項目を参照して下さい。

ボタン操作

テストモードトップページへの入力

After setting the rear panel select switch to the “Mac” position, turn on the power while holding down the three buttons (CONTROLLER), [EDIT], and [EXIT].

In each test mode, you can press [EXIT] to return to the top page of the test mode. However, in the Switch & LED test, pressing the two buttons [SHIFT] and [EXIT] will return you to the top page of the test mode.

2: Exiting test mode

Return to the top page of test mode, and press the [EXIT] button.

テストモード抜け方

テストモードトップページに戻り、テストモードボタンを押してください。
3 : Advancing to the next test
When a test ends normally, you will automatically advance to the next test item.

Even if a test has not ended, you can press the cursor [↓] button to move to the next test item.
However in the Switch & LED test, you must press the two buttons [SHIFT] and cursor [↓] of the two buttons.

4 : Returning to the preceding test
Press the cursor [↑] button.
However in the Switch & LED test, you must press the two buttons [SHIFT] and cursor [↑].

5 : Jumping to a specific test
In the top page of test mode, you can press [SHIFT] + [***] to jump directly to a specific test.

1 : Memory test [SHIFT]+[1]
2 : Expansion board test [SHIFT]+[2]
3 : MIDI test [SHIFT]+[3]
4 : A/D test [SHIFT]+[4]
5 : Aftertouch test [SHIFT]+[5]
6 : Switch & LED test [SHIFT]+[6]
7 : LCD & Encoder test [SHIFT]+[7]
8 : Card test [SHIFT]+[8]
9 : Computer I/F test [SHIFT]+[9]
10 : Sound test [SHIFT]+[0]
11 : Factory reset [SHIFT]+[CATEGORY]
12 : Version check [SHIFT]+[UNDO]
13 : Checksum check [SHIFT]+[PALETTE]
14 : Test check [SHIFT]+[ENTER]

Details of the test items
0 : Test mode top page
After setting the rear panel select switch to the "Mac" position, turn on the power while holding down the three buttons [CONTROLLER], [-OCT] and [EXP A].

1 : Memory test [SHIFT]+[1]
2 : Expansion board test [SHIFT]+[2]
3 : MIDI test [SHIFT]+[3]
4 : A/D test [SHIFT]+[4]
5 : Aftertouch test [SHIFT]+[5]
6 : Switch & LED test [SHIFT]+[6]
7 : LCD & Encoder test [SHIFT]+[7]
8 : Card test [SHIFT]+[8]
9 : Computer I/F test [SHIFT]+[9]
10 : Sound test [SHIFT]+[0]
11 : Factory reset [SHIFT]+[CATEGORY]
12 : Version check [SHIFT]+[UNDO]
13 : Checksum check [SHIFT]+[PALETTE]
14 : Test check [SHIFT]+[ENTER]

Details of the test items
0 : Test mode top page
After setting the rear panel select switch to the "Mac" position, turn on the power while holding down the three buttons [CONTROLLER], [-OCT] and [EXP A].

1 : Memory test [SHIFT]+[1]
2 : Expansion board test [SHIFT]+[2]
3 : MIDI test [SHIFT]+[3]
4 : A/D test [SHIFT]+[4]
5 : Aftertouch test [SHIFT]+[5]
6 : Switch & LED test [SHIFT]+[6]
7 : LCD & Encoder test [SHIFT]+[7]
8 : Card test [SHIFT]+[8]
9 : Computer I/F test [SHIFT]+[9]
10 : Sound test [SHIFT]+[0]
11 : Factory reset [SHIFT]+[CATEGORY]
12 : Version check [SHIFT]+[UNDO]
13 : Checksum check [SHIFT]+[PALETTE]
14 : Test check [SHIFT]+[ENTER]

Details of the test items
0 : Test mode top page
After setting the rear panel select switch to the "Mac" position, turn on the power while holding down the three buttons [CONTROLLER], [-OCT] and [EXP A].

1 : Memory test [SHIFT]+[1]
2 : Expansion board test [SHIFT]+[2]
3 : MIDI test [SHIFT]+[3]
4 : A/D test [SHIFT]+[4]
5 : Aftertouch test [SHIFT]+[5]
6 : Switch & LED test [SHIFT]+[6]
7 : LCD & Encoder test [SHIFT]+[7]
8 : Card test [SHIFT]+[8]
9 : Computer I/F test [SHIFT]+[9]
10 : Sound test [SHIFT]+[0]
11 : Factory reset [SHIFT]+[CATEGORY]
12 : Version check [SHIFT]+[UNDO]
13 : Checksum check [SHIFT]+[PALETTE]
14 : Test check [SHIFT]+[ENTER]
1: Memory test

If the "NG" display appears, verify the item which is "NG," and check the following components on the main board.

- CPU NG → IC5
- ROM NG → IC1(Mask ROM), IC7(Flash ROM)
- DRAM NG → IC9
- SRAM NG → IC14
- DSP NG → IC24
- DSP RAM NG → IC35
- Wave NG → IC22

When all items are displayed as "OK," you will automatically proceed to the next test.

2: Expansion board test

If the "NG" display appears, verify that the two expansion boards are inserted correctly.
If they are inserted correctly, verify the item for which "NG" was displayed, and check the following components on the main board.

- EXP-A NG → IC23, RA38, RA39, RA46
- EXP-B NG → IC27, RA38, RA39, RA46
- EXP-C NG → IC28, RA38, RA39, RA46
- EXP-D NG → IC30, IC31, RA45
- EXP-E NG → IC30, IC31, RA45

When all items are displayed as "OK," you will automatically proceed to the next test.

3: MIDI test

Use a MIDI cable to connect MIDI IN and MIDI OUT.

Verify that the display indicates "Connect." If this is not displayed, check IC4, IC8, and JK1 on the main board.

Disconnect the MIDI cable from MIDI IN and MIDI OUT.

Verify that the display indicates "OK." If the "OK" display does not appear, check IC4, IC8, and JK1 on the main board.

When the "OK" display appears, you will automatically proceed to the next test.

4: A/D test

Move the bender all the way to the left and right.

Verify that "Bend" indicates "OK." If "OK" does not appear for "Bend," check IC45 on the main board, or the bender unit.

Move the bender lever in the modulation direction.

Verify that "Mod" indicates "OK." If the "OK" display does not appear for "Mod," check IC45 on the main board, or the bender unit.

Move C1, C2, C3, and C4 sliders all the way upward and downward.

Verify that "OK" is displayed for "C1", "C2", "C3", and "C4." If the "OK" display does not appear, check CN10 and IC46 on the main board, and CN1, IC1, VR1, VR2, VR3, and VR4 on the panel board A.

Connect an expression pedal to the control jack, and a foot pedal to the hold jack.

Advance and then return the expression pedal.

Verify that "OK" is displayed for "Pdl." If "OK" is not displayed for "Pdl," check IC10 and JK2 on the main board.
After you press all buttons, you will automatically advance to the board, and LED's, CN1, CN3, and CN4 on the panel board. IC3, IC42, RA52, Q15-27, and CN10-12 on the main switches, CN1, CN3, and CN4 on the panel board. IC3, IC42, RA52, and CN10-12 on the main board, and the LED goes dark (if the button has an LED).

At this time, do not press multiple buttons simultaneously. Press the panel buttons in any order.

Verify that all LED's light. If not all LED's light, check IC3, IC43, IC44, RA52, and CN10-12 on the main board, and LED, CN1, CN3, and CN4 on the panel board. Press the panel buttons in any order. At this time, do not press multiple buttons simultaneously.

Verify that the name of the button you pressed is displayed, and that the LED goes dark (if the button has an LED).

Of the name of the button you pressed is not displayed, check IC3, IC42, RA52, and CN10-12 on the main board, and the switches, CN1, CN3, and CN4 on the panel board. If the LED's do not go dark, check IC3, IC43, IC44, RA52, Q15-27, and CN10-12 on the main board, and LED's CN1, CN3, and CN4 on the panel board.

After you press all buttons, you will automatically advance to the next test.

5 : Aftertoach test

There are three key ranges. Key L: C2 - E3 Key M: F3 - G5 Key H: F5 - C7

In each of the three key ranges, press the keyboard deeply and then release it.

Verify that "OK" is displayed for "KeyL," "KeyM," and "KeyH." If "OK" is not displayed, check IC10 and CN2 on the main board, or the keyboard.

When "OK" is displayed for all items, you will automatically proceed to the next test.

6 : Switch & LED test

Verify that all LED's light. If not all LED's light, check IC3, IC43, IC44, RA52, and CN10-12 on the main board, and LED, CN1, CN3, and CN4 on the panel board. Press the panel buttons in any order. At this time, do not press multiple buttons simultaneously.

Verify that the name of the button you pressed is displayed, and that the LED goes dark (if the button has an LED).

Of the name of the button you pressed is not displayed, check IC3, IC42, RA52, and CN10-12 on the main board, and the switches, CN1, CN3, and CN4 on the panel board. If the LED's do not go dark, check IC3, IC43, IC44, RA52, Q15-27, and CN10-12 on the main board, and LED's CN1, CN3, and CN4 on the panel board.

After you press all buttons, you will automatically advance to the next test.

7 : LCD test

Press the [ENTER] button.

Move the encoder. Verify that nothing is displayed in the LCD. If something shows in the LCD, check IC3 and IC12 on the main board.

Press the [ENTER] button.

Move the encoder.

Verify that all dots of the LCD are displayed, whether the contrast changes, whether any dots are missing, and that all dots darken evenly.

If there is any abnormality in the LCD, check IC3 and IC12 on the main board. If there is a problem with the encoder, check IC3 on the main board, and EN1 on the panel board.

If there are no problems, press [ENTER]. You will proceed to the next test.

8 : Memory card test

Verify that the display indicates "OK."

If the display does not indicate "OK," check IC3, IC16, IC19, IC13, and RA48 on the main board.

When the "OK" display appears, you will automatically proceed to the next test.

Note: When you perform the card test, the content of the card will be lost. Please use a dedicated card for the card test.

Verify that the display indicates "OK."

If the display does not indicate "OK," check IC3, IC16, IC19, IC13, and RA48 on the main board.

When the "OK" display appears, you will automatically proceed to the next test.

Note: When you perform the card test, the content of the card will be lost. Please use a dedicated card for the card test.
9 : Computer I/F test

Connect the computer cable (17049906) and verify the
"Disconnect" display. Once again, disconnect the computer
cable.
Verify that the display indicates "OK."
If the display does not indicate "OK," verify that you started
up the system with the select switch in the "Mac" position, or
check IC17 and IC18 on the main board.
Move the select switch to the "Mac", "PC-1", "PC-2", and
"MIDI" positions.
Verify that the display indicates "OK."
If the display does not indicate "OK," check SW2, IC17, and
IC18 on the main board.

When the test is completed normally, you will automatically
advance to the next test.

10 : Sound test

Press the [ENTER] button.
The LCD will indicate "L:Sine," and a sine wave will be
output from "OUTPUT L."
Verify the output sound using monitor speakers etc.
If the sine wave cannot be produced correctly, check IC38,
IC24, IC32, and CN8 on the main board.

Press the [ENTER] button.
The display will indicate "R:Square," and a square wave will
be output from "OUTPUT R."
Verify the output sound using monitor speakers etc.
If the square wave cannot be produced correctly, check IC38,
IC24, IC32, and CN8 on the main board.

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

11 : Factory reset

Press the [ENTER] button to perform a Factory Reset.
The test mode has been successfully completed.
The instrument will automatically start up in normal mode.
ERROR MESSAGE / エラーメッセージ

If there has been a mistake in operation, or if the XP-30 is unable to continue processing as you directed, an error message will appear in the display. Take the appropriate action for the displayed error message. This section gives the error messages in alphabetical order.

Battery Low
Situation: The internal backup battery that is preserving the contents of user memory has run down.
Action: Consult your dealer or a nearby Roland service station to have the battery replaced.

File Format Error
Situation: The XP-30 cannot handle this file.

File I/O Error
Situation: It was not possible to save/load a file.
Action: Try the operation once again. If the same message appears, that file has been damaged. Delete the damaged file.

File Name Duplicate
Situation: A file of the same name already exists in the memory card.
Action: Use a different file name.

File not Found
Situation: The specified file was not found.
Action: Assign a file name.

Memory Card Full
Situation: The memory card is full.
Action: Insert the memory card that contains the specified file, and try the operation once again.

Memory Card I/O Error
Situation: It is possible that the memory card has been scratched or otherwise damaged.
Action: If the memory card has been damaged, do not use that memory card. If the same error message appears repeatedly, consult your dealer or a nearby Roland service station.

Memory Card not Ready
Situation: A memory card is not inserted in the MEMORY CARD slot.
Action: Turn off the power, and insert a memory card.

Memory Card Write Protected
Situation: Since a write protect sticker is affixed to the memory card, data cannot be saved to the card bank.
Action: Remove the write protect sticker from the memory card.

MIDI Buffer Full
Situation: Due to an inordinate volume of MIDI messages received, the XP-30 has failed to process them properly.
Action: Reduce the amount of MIDI messages to be transmitted.

MIDI Communication Error
Situation: A problem has occurred with the MIDI cable connections.
Action: Check that MIDI cables are not broken or pulled out.

Receive Data Error
Situation: A MIDI message was received incorrectly.
Action: If the same error message is displayed repeatedly, there is a problem with the MIDI messages that are being transmitted to the XP-30.

Unformatted Memory Card
Situation: This memory card cannot be used by the XP-30.
Action: Format the memory card on the XP-30.

User Memory Damaged
Situation: The data in user memory has been lost.
Action: Use the Factory Reset function (UTILITY/UTILITY 2/FIRAY FACTORY RESET) to initialize the memory to the factory settings.

User Memory Write Protected
Situation 1: The Internal parameter (UTILITY/UTILITY 1/PROTECT/WRITE PROTECT) is turned ON.
Action 1: Turn the Internal parameter OFF.
Situation 2: The Exclusive parameter (UTILITY/UTILITY 1/PROTECT/WRITE PROTECT) is turned ON, and Exclusive messages cannot be received.
Action 2: Turn the Exclusive parameter OFF.
## KEYBOARD DISASSEMBLY

### XP-30 (SK-861-N) PARTS LIST

<table>
<thead>
<tr>
<th>No.</th>
<th>PARTS No.</th>
<th>PARTS NAME</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>32575349W0</td>
<td>SK-8 N-KEY  CF (WEIGHT)</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>32575348W0</td>
<td>SK-8 N-KEY  EB (WEIGHT)</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>32575350W0</td>
<td>SK-8 N-KEY  D (WEIGHT)</td>
<td>5</td>
</tr>
<tr>
<td>1</td>
<td>32575351W0</td>
<td>SK-8 N-KEY  G (WEIGHT)</td>
<td>5</td>
</tr>
<tr>
<td>1</td>
<td>32575347W0</td>
<td>SK-8 N-KEY  A (WEIGHT)</td>
<td>5</td>
</tr>
<tr>
<td>1</td>
<td>32575352W0</td>
<td>SK-8 N-KEY  CF (WEIGHT)</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>32575350W0</td>
<td>SK-8 S-KEY (WEIGHT)</td>
<td>25</td>
</tr>
<tr>
<td>2</td>
<td>71122691</td>
<td>SK-8 CHASSIS 61P-E ASSY</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>22815838</td>
<td>SK-8 CHASSIS 61P-C</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>22265529</td>
<td>SK-861 CUSHION 61KEY B</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>02155199</td>
<td>SK-8 GUIDE</td>
<td>61</td>
</tr>
<tr>
<td>2</td>
<td>01236767</td>
<td>SK-861 AFTERTOUCH</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>70890767</td>
<td>SK-8A61 PWB HI-AFT ASSY</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>70890778</td>
<td>SK-8A61 PWB LOW ASSY</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>01015134</td>
<td>SK-8A RUBBER SWITCH 12P</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>01015145</td>
<td>SK-8A RUBBER SWITCH 13P</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>22265597</td>
<td>SK-8 PCB SPACER 12P</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>22255588</td>
<td>SK-8 PCB SPACER 13P</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>00018978</td>
<td>SK-8 STOPPER 12P</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>00018989</td>
<td>SK-8 STOPPER 13P</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>40017134</td>
<td>SK-8 SPRING</td>
<td>61</td>
</tr>
<tr>
<td>9</td>
<td>40012256</td>
<td>BINDING TAPTTGHT1B 3×10 ZC</td>
<td>24</td>
</tr>
<tr>
<td>10</td>
<td>00126612</td>
<td>KEYBOARD ANGLE</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>40011067</td>
<td>BINDING TAPTTGHT8 3×10 ZC</td>
<td>5</td>
</tr>
</tbody>
</table>

View from components side.
1. ATTACHING THE PCBs

1) First, turn the chassis over on the other side, being careful not to reverse the right and left ends.

Next, as shown in fig. 1, place SPACER 12P (4 pieces) on the chassis from the left end (the bass side of keyboard), aligning them with the positioning holes provided on the chassis. (Refer to fig. 2.)

In the same way, place SPACER 13P on the right side of the chassis (the treble side).

<table>
<thead>
<tr>
<th>PARTS No.</th>
<th>PARTS NAME</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>70890767</td>
<td>SK-8A61 PWB HI-AFT ASSY</td>
<td>1</td>
</tr>
<tr>
<td>70890776</td>
<td>SK-8A61 PWB LOW ASSY</td>
<td>1</td>
</tr>
<tr>
<td>01015134</td>
<td>SK-8A RUBBER SWITCH 12P</td>
<td>4</td>
</tr>
<tr>
<td>01015145</td>
<td>SK-8A RUBBER SWITCH 13P</td>
<td>1</td>
</tr>
<tr>
<td>22205597</td>
<td>SK-8 PCB SPACER 12P</td>
<td>4</td>
</tr>
<tr>
<td>22205598</td>
<td>SK-8 PCB SPACER 13P</td>
<td>1</td>
</tr>
<tr>
<td>40012256</td>
<td>BINDING TAP TIGHT B 3x10mm ZC</td>
<td>24</td>
</tr>
</tbody>
</table>

1) まず、シャーシを左か右が逆にならないように裏返します。

次に、fig. 1に示すように左側（鍵の低音側）に、
SPACER 12Pを4個、シャーシの位置決め穴に合わせて順
に置いていきます。

（fig. 2参照のこと）

右側（音高側）にはSPACER 13Pを同様に置いていきま
す。
2) Next, aligning the positioning bosses of RUBBER SWITCH with the circular holes of SPACER, and as done for the spacer, place four RUBBER SWITCH 12P, and one RUBBER SWITCH 13P in order, starting on the lower tone side. In this procedure, make sure that RUBBER SWITCH and SPACER are positioned with their cutout parts and air-escape grooves aligned, respectively. (Refer to fig. 3 and fig. 4.)

3) Next, using the cutout part of PCB and the projecting part of SPACER as positioning guide, place PCB so that the positioning pin of SPACER fits into the positioning hole of PCB. (Refer to fig. 5.)

As fig. 6 shows, PCBs consist of three boards, "LOW" and "HI".

4) Then, tighten the LOW and HI PCBs with the Tap Tight Screws. First tighten the near-center Screws 1, then the end Screws 2 on the other side. (This order must be followed. Otherwise the PCB may not be flush with the Spacers.)

Finally, tighten the Screws in the area adjacent to the LOW and HI PCBs.

Since the PCBs may have been warped by soldering, etc., it is recommended to gently hold down the center and tighten the Screws.

2. REMOVAL AND REINSTALLATION OF THE KEYS

Before removing the keys, first take the stopper off the rear side of the chassis, then take away the spring.

When reinstalling the keys, carefully apply the stopper as shown in fig. 8.

Bring the stopper into close contact with the ends of the white key shafts and press the stopper in the area of the double-coated tape to secure it. (Refer fig. 8.)
CIRCUIT BOARD (MAIN)

View from components side.
CIRCUIT BOARD(PANEL BOARD ABC) / 基板図