**SERVICE NOTES**

*First Edition*

**SPECIFICATIONS**

- **Keyboard**
  - 88 keys, velocity sensitive
  
- **Polyphony**
  - 28 voices

- **Sounds**
  - 8 selectable via dedicated front-panel buttons (PIANO1, PIANO2, E.PIANO, VIBRAPHONE, HARPSICHORD, ORGAN, STRINGS, CHORI), 241 Tones + 9 Drums Sets (selectable via MIDI) Digital Chorus, Digital Reverb

- **Digital effects**
  - Records and plays back note and pedal data as well as tempo changes. 1 song (±1000 notes)

- **Reverb**
  - ± 50 cents (TUNE knob)

- **Concerts**
  - BRILLIANCE slider (brightness), VOLUME slider (global volume), Pianist VOLUME ▲ / ▼ buttons, Music Style selection buttons (Ballad, Pop, Sl Swing, Swing, BossaN, Rock'n'Roll, Latin, Sl Waltz, Rag Time), METRONOME (on/off) button, INTRO/ENDING button, TEMPO/KEY TRANSPOSE ▲ / ▼ buttons, KEY START/STOP button, Recorder REC, PLAY/DEMO buttons, Tone selection buttons (Pianist, Piano2, E.PIano, Vibraphone, Harpsichord, Organ, Strings, Choir), CHORUS, REVERB buttons KEY TOUCH LIGHT/HEavy buttons (Rear panel), TUNE knob.

- **Finish**
  - Simulated Rosewood AC inlet, MIDI IN/OUT connectors, PEDAL (Damper/Soft) jack (ste reo), INPUT (L/Mono, R) jacks, OUTPUT (L/R) jacks, PHONES jack (front side)

- **Speakers**
  - 16cm x 2

- **Output power**
  - 20 W x 2

- **Dimensions:**
  - Piano: 1436 (W) x 456 (D) x 176 (H) mm
  - Total: 1436 (W) x 456 (D) x 638 (H) mm

- **Weight**
  - Piano: 32 Kg
  - Stand: 15.3 Kg

- **Power consumption**
  - 60W (117V) - 45W (230V/240V)

- **Supplied accessories**
  - Owner's Manual (ISP/Dutch) EP85/95 (K6018264)
  - MIDI Guide (K6018109)
  - CABLE KB-13/13H/01-09/01 CABLE KB-13/13H/01-09/09 (13499158)
  - CABLE KB-13/13H/01-09/09 (13499150)
  - CABLE KB-13/13H/01-09/09 (240VA)

**Options**

- Headphones: RH-120, RH-80, RH-20

---

**REAR VIEW**

---

Copyright © 1997 by ROLAND CORPORATION
EXPLODED VIEW 2

<table>
<thead>
<tr>
<th>N.</th>
<th>PART No</th>
<th>PART NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>K2218102</td>
<td>MUSIC REST W/HINGES</td>
</tr>
<tr>
<td>2</td>
<td>K2238108</td>
<td>MUSIC SCORE HOLDER</td>
</tr>
<tr>
<td>3</td>
<td>7696316000</td>
<td>TOP CABINET ASSY</td>
</tr>
<tr>
<td>4</td>
<td>K1158102</td>
<td>LEFT SIDE PANEL ASSY</td>
</tr>
<tr>
<td>5</td>
<td>K1158101</td>
<td>RIGHT SIDE PANEL ASSY</td>
</tr>
<tr>
<td>6</td>
<td>7696313000</td>
<td>VARNISHED BLIND</td>
</tr>
<tr>
<td>7</td>
<td>7698006000</td>
<td>VARN. + SLK. CONTROL BLIND (ONLY FOR EP-95)</td>
</tr>
<tr>
<td>8</td>
<td>7699100200</td>
<td>VARN. + SLK. CONTROL BLIND (ONLY FOR EP-130)</td>
</tr>
<tr>
<td>9</td>
<td>7698304000</td>
<td>VARN. + SLK. REAR PANEL</td>
</tr>
<tr>
<td>10</td>
<td>7699020200</td>
<td>CONTROLS PCB ASSY -EP-95/HP-130</td>
</tr>
<tr>
<td>11</td>
<td>13129124</td>
<td>SWITCH SDDG-3078A</td>
</tr>
<tr>
<td>12</td>
<td>K3238102</td>
<td>IRON HINGE</td>
</tr>
<tr>
<td>13</td>
<td>32495597</td>
<td>SWITCH CAP</td>
</tr>
<tr>
<td>14</td>
<td>33225353</td>
<td>IS-ESCT SXIV BLK L=30</td>
</tr>
<tr>
<td>15</td>
<td>22485192</td>
<td>BLACK KNOB W/WHITE INDICATOR</td>
</tr>
<tr>
<td>16</td>
<td>00900190</td>
<td>DOUBLE BUTTON (BLACK)</td>
</tr>
<tr>
<td>17</td>
<td>00900156</td>
<td>DOUBLE BUTTON + DIFFUSER (BLACK)</td>
</tr>
<tr>
<td>18</td>
<td>00900145</td>
<td>SINGLE BUTTON + DIFFUSER (BLACK)</td>
</tr>
<tr>
<td>19</td>
<td>01013023</td>
<td>SINGLE BUTTON + DIFFUSER (RED)</td>
</tr>
<tr>
<td>20</td>
<td>00903767</td>
<td>LARGE SINGLE BUTTON + DIFFUSER (BLACK)</td>
</tr>
<tr>
<td>21</td>
<td>00677212</td>
<td>4 BUTTON GROUP + DIFFUSER (GREY)</td>
</tr>
<tr>
<td>22</td>
<td>K34568151</td>
<td>16P FLAT CABLE [30] -2C</td>
</tr>
<tr>
<td>23</td>
<td>7699090000</td>
<td>2P COAXIAL CBL ASSY (48) -2C</td>
</tr>
</tbody>
</table>
KEYBOARD PARTS LIST
88 KEY TP8 KEYBOARD ASSY

PEDAL UNIT EXPLODED VIEW (2 NOTE PEDAL)
ASSY J3059112

CIRCUIT DIAGRAM 2 NOTE PEDAL
MAIN PCB ASSY & CIRCUIT DIAGRAM

ASSY 7698901000

View from component side
PIANO MODULE (no service)

CIRCUIT DIAGRAM (PIANO MODULE)
IDENTIFYING THE SOFTWARE VERSION

Press "E Piano 3" while switching ON the instrument.

<table>
<thead>
<tr>
<th>Soft Ver:1.00</th>
<th>Soft Ver:1.01</th>
<th>Soft Ver:1.02</th>
<th>Soft Ver:1.03</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The software version will be indicated by the tone LEDs on the control panel as shown above.
To exit, switch the power off.

TEST MODE

Switch the instrument on while holding down the "Piano 1" button.
In the model EP-95/HP-130, the "SI Swing" button led turns on.

The LEDs of all the tone buttons blink until one of the following possible checks is selected.
The TEST MODE includes 9 tests:

1) Piano1 Test Switch + Led
2) Piano 2 Test Pedal (or Audio test if pressed while switching on the instrument).
3) E.Pia.1 Test Keyboard
4) Vib. Midi
5) Harp. Ram
6) Organ W Ram
7) String Rom Program
8) Choir Aac
9) Effect Reverb
     Chorus

To exit, press the "Start" and "Choir" buttons simultaneously.

1) Switch and Led test

Press the "Piano1" button and all LEDs turn on.

When pressing each single button, you can hear a metronome beat while the corresponding button LED lights.
When pressing the buttons without LEDs, like TEMPO +/- and VOLUME +/-, the beat LEDs will turn on from left to right depending on the button you’ve pressed.
Once all LEDs turn off, after checking all the corresponding buttons, the test is completed.
You cannot exit this test mode before completing this check.
To exit press "Start" + "Choir" buttons simultaneously

2) Pedal test

Press "Piano2", connect the "Soft" and "Damper" pedals to the instrument.

When pressing the "Soft" pedal you'll hear a sound and the first LED on the left of the tempo indicator will turn on.
When pressing the "Damper" pedal you'll hear a sound and the last LED on the right of the tempo indicator will turn on.
To exit press "Start" + "Choir" buttons simultaneously

3) Keyboard test

Press the "E Piano" button.

When pressing a key, a sound is generated; the key velocity level is shown by the LEDs on the control panel, since they turn on in sequence one after another depending on the velocity level, starting from level 1 (= the LED on the "Piano" button turns on), up to 127, the highest level (= the "Choir" LED turns on).
To exit press "Start" + "Choir" buttons simultaneously

4) Midi test

Press the "Vibraphone" button.

Shortcircuit the MIDI IN/OUT sockets on the rear panel by using a MIDI CABLE.
- If the "Play" button led lights, it’s OK.
- If the "Rec" button led lights, there’s an ERROR.
The error cause, is: either a wrong transmission/reception, or that the MIDI CABLE was not connected correctly.
To exit press "Start" + "Choir" buttons simultaneously

5) Ram test (IC2 on Piano Module)

Press the "Harpsichord" button.
- If the "Play" button led lights, it’s OK.
- If the "Rec" button led lights, there’s an ERROR.
The error cause, is: something wrong either in the RAM (IC2 on Piano Module) or in the circuit.
To exit press "Start" + "Choir" buttons simultaneously

6) Wave Masked Rom test (IC7 on Piano Module)

Press the "Organ" button.
- If the "Play" button led lights, it’s OK.
- If the "Rec" button led lights, there’s an ERROR.
The error cause, is: something wrong either in the WAVE ROM (IC7 on Piano Module) or in the circuit.
To exit press "Start" + "Choir" buttons simultaneously

7) Programmed Masked Rom test (IC6 on Piano Module)

Press the "Strings" button.
- If the "Play" button led lights, it’s OK.
- If the "Rec" button led lights, there’s an ERROR.
The error cause, is: something wrong either in the PROGRAMMED ROM (IC6 on Piano Module), or in the circuit.
To exit press "Start" + "Choir" buttons simultaneously

8) Adc test

Press the "Choir" button to enter the Adc test mode (Tune/Brilliance/Volume)
MASTER TUNE TEST

The "Piano1" and "Piano2" buttons blink, press "Piano1" and its led will light while the "Piano2" led turns off.
- When closing the "TUNE - " potentiometer towards the " b " symbol, a falling sound can be heard;
- when opening the "TUNE + " potentiometer toward the " # " symbol, an increasing sound can be heard
Each end position is signalled by a metronome beat.

To exit press "Start" + "Choir" buttons simultaneously. The "Piano1" and "Piano2" buttons Will Blink.

BRILLIANCE TEST (Only for EP-95/HP-130)

Press the "Piano2" button, its led lights while the led of the "Tone2" button turns off.
- When closing the "Brilliance" potentiometer towards "Mellow", a falling sound can be heard.
- When opening the potentiometer towards "Bright", an increasing sound can be heard.
Each end position is signalled by a metronome beat.

To exit press "Start" + "Choir" buttons simultaneously. The "Piano1" and "Piano2" buttons Will Blink.

MASTER VOLUME TEST

When moving this potentiometer from "MAX" to "MIN", the general volume decreases till no sound can be heard.
When moving the potentiometer from "MIN" to "MAX", the general volume reaches its highest level.

To exit press "Start" + "Choir" buttons simultaneously.

To leave the general Test Mode and go back to the main menu, press "START" and "CHOIR" simultaneously again.

9) Effect test (IC8 on Piano Module)

Press the "Chorus" button, you'll hear a sound with the chorus effect.
Press "Reverb", you'll heard a bassdrum tone and the metronome beats with reverb effect.

To exit press "Start" + "Choir" buttons simultaneously.

Audio test

Switch the instrument on while keeping the "Piano2" button pressed.
You'll hear a high frequency sound from the left speaker and a low frequency sound from the right speaker.
To exit, switch the instrument off.

Factory Setup

After finishing the checks, switch the instrument on while keeping the "REC" button pressed.

Both the "REC" and "PLAY" leds blink for a few seconds, this confirms the program has been reset.