# A-30 MIDI KEYBOARD CONTROLLER

## SERVICE NOTES

**First Edition**

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### SPECIFICATIONS/仕様

- **KEYBOARD**
  - 76 weighted key dynamic keyboard
- **SOUND SOURCE**
  - Completely compatible with Roland GS format.
- **USER PATCHES**
  - 32
- **CURRENT DRAW**
  - 80mA (DC 9V)
- **BATTERY LIFE**
  - Approx. 25 hours (used alkaline battery type x 6 pcs)
- **DIMENSIONS**
  - 1185(W) x 270(D) x 105(H) mm
  - 47-3/8(W) x 10-5/8(D) x 4-9/16(H) inches.
- **WEIGHTS**
  - 8.1 kg / 17 lb 13 oz.
- **ACCESSORIES**
  - Alkaline Battery MN1500 Duracell x 6 pcs

  **NOTE:** The below parts is supported as replacement instead of above parts.

  注：上記の部品は、供給しません。

  修理用部品としては、下記の部品が供給されます。

  Alkaline Battery SUM-3S : PNo.12964105
  MIDI Cable 1m (Black) : PNo.23486228
  Owner's Manual : PNo.K0618122
  (English/French/Germany/Italian/Japanese)

### OPTIONS

- AC Adaptor
  - ACA-100 (100V)
  - ACA-120 (117V)
  - ACA-220 (220V)
  - ACA-240A (240VA)
  - ACA-240E (240VE)

### DISASSEMBLY/分解手順

Silkscr Bottom Cabinet Assy removal screw /A/ x 11 pcs
A: 3.5 x 19 mm Self tap screw TCTCPRBZ.
KEYBOARD PARTS LIST

<table>
<thead>
<tr>
<th>NO.</th>
<th>PARTS NUMBER</th>
<th>PARTS NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>J2179101</td>
<td>KEY SPRING  grt63</td>
</tr>
<tr>
<td>2</td>
<td>J2579112</td>
<td>NATURAL KEY  C6 (gr10) (DO)  (weight)</td>
</tr>
<tr>
<td>3</td>
<td>J2579113</td>
<td>NATURAL KEY  D6 (gr10) (RE)  (weight)</td>
</tr>
<tr>
<td>4</td>
<td>J2579114</td>
<td>NATURAL KEY  E7 (gr10) (MI)  (weight)</td>
</tr>
<tr>
<td>5</td>
<td>J2579115</td>
<td>NATURAL KEY  F1 (gr10) (FA)  (weight)</td>
</tr>
<tr>
<td>6</td>
<td>J2579116</td>
<td>NATURAL KEY  G2 (gr10) (SOL) (weight)</td>
</tr>
<tr>
<td>7</td>
<td>J2579117</td>
<td>NATURAL KEY  A3 (gr10) (LA)  (weight)</td>
</tr>
<tr>
<td>8</td>
<td>J2579118</td>
<td>NATURAL KEY  B4 (gr10) (SI)  (weight)</td>
</tr>
<tr>
<td>9</td>
<td>J2579119</td>
<td>NATURAL KEY  C8 (gr10) (MI1) (weight)</td>
</tr>
<tr>
<td>10</td>
<td>J2579121</td>
<td>NATURAL KEY  G (gr10) (SOL)   (weight)</td>
</tr>
<tr>
<td>11</td>
<td>J2599120</td>
<td>SHARP KEY  (gr10)</td>
</tr>
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<td>2.9 x 8mm SELF TAP SCREW TCTPCRZ .9</td>
<td>(Screw No. J2298104 or 206132308)</td>
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<td>15</td>
<td>J2569101</td>
<td>RIGHT CONTACT PCB ASSY w/RUBBER (or CONTACT BOARD)</td>
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<td>16</td>
<td>J2569102</td>
<td>PLASTIC CHASSIS</td>
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<tr>
<td>17</td>
<td>J2359104</td>
<td>GUIDE BUSHING INFERIOR</td>
</tr>
<tr>
<td>18</td>
<td>J2159799</td>
<td>GUIDE BUSHING SUPERIOR</td>
</tr>
</tbody>
</table>

KEYBOARD DISASSEMBLY

1. Remove the key spring from key to be removed.
2. Remove the key by lifting one end of the key as shown below.

- Key spring をはずす。
- キーの後ろ側を上方へ引っ張って取り外す。
**PARTS LIST**

**SAFETY PRECAUTIONS**

The parts marked **_** require safety-related characteristics. When ordering any parts listed in the parts list, please specify the following items in the order sheet.

- **Qty.**
- **Part Number**
- **Original Number**
- **Model Number**
- **Original Supplier**
- **New Supplier**
- **Cost**

Failure to completely fill in the above items with correct number and description will result in delayed or even uncontrollable replacement.

**CASING/CASE**

7695011000 SILKSCR. BOTTOM CABINET ASSY
7695013000 SILKSCR. TOP CABINET ASSY
7695014000 VARNISHED BATTERY COVER
J2559010 SPACER 3M ART, SIJ502 (or RUBBER FOOT)

**CHASSIS/シャーシ**

K2638114 RIGHT POLYEST. END SIDE
K2638115 LEFT POLYEST. END SIDE
K2129710 METAL CHASSIS/F SOCKETS

**KNOB, BUTTON,**ポタン**

22485184 SLIDER POT., KNOB, 001 BLACK
K2478109 SMALL SWITCH, BLACK
K2478110 SMALL SWITCH, YELLOW
K2478111 SMALL SWITCH, BLUE
K2478712 SMALL SWITCH, GREY

**SWITCH/SWITCH**

13129739R EVO-QTV05G POWER SWITCH
13159111 SSSP120868 POWER SWITCH

**JACK, SOCKET,**ソケット**

13486711 HCD450-01-430 DC SUPPLY SOCKET
13487125 HL05020-0-110 JACK SOCKET
14245733 YKP01-0046 JPZ DIN SOCKET

**BENDER UNIT,**ベンダー,ユニット**

2325840 PB-A010 PITCH BENDER ASSY

**NOTE:** Replacements Pitch Bender Assy should be made on a unit basis. No replacements available for individual parts. Replacement only by a unit.

**KEYBOARD/キーボード**

7695013000 KEYBOARD ASSY

**NOTE:** See "A30 KEYBOARD PARTS LIST" (P. 4) for details.

**PCB ASSY/基板部品**

7695001000 CPU PCB ASSY (for CPU BOARD)
7695003000 CONTROLS PCB ASSY (for CONTROLS BOARD)
7695005000 POWER SUPPLY PCB ASSY

**DIODE/ダイオード**

15010156R IN-4001
15010159R 1N-4148
15020283R TL498401
15010345R BZ97C56V LED (red)
15010345R BZ97C56V ZENER 5.6V

**RESISTOR,抵抗**

13910325R S.L. KX804C RESISTOR ARRAY
13910325R GRL8K153J/ 1KX8 RESISTOR ARRAY

**POTENTIOMETER,**ポリューム**

J3539010 100K 10MS LIN. POT. CURSOR

**CAPACITOR,**コンデンサー**

13519452 DD306K-569-014255 CERAM. COND.
13529173R 100K 20% MULTILAYER CER. COND.
13549069R 47UF 25V ELECTR. COND. -H
13539109R 100K 25V ELECTR. COND. -V
13540065R 47UF 25V ELECTR. COND. - V
13540065R 100K 50V ELECTR. COND. - V
13540065R 1UF 100V ELECTR. COND. -V

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

12485835R PLT-LN-56C NOISE SUP.
12485835R SBS-0166C NOISE SUP.
12485835R SBS-046C NOISE SUP.
13639187 ELTT891CA NOISE SUP.
12483900 EXC-ELD205V NOISE SUP.

**CRYSTAL, RESONATOR,**クリスタル,発振子**

15299112R B8MHz CERAMIC RESONATOR

**CONNECTOR,**コネクター**

13418979R AMP C1-27 (16P) FEMALE CONN.
13418979R AMP C1-27 (29P) FEMALE CONN.
13429760 CONNECTOR (8P) MALE

**WIRING, CABLE,**ワイヤング,ケーブル**

7695008000 CABLE ASSY (28) w (1P-16P)
7695009000 CABLE ASSY (42) w (20P-20P)

**SCREW,**ねじ**

**NOTE:**

2.2 x 8mm SELF TAP. SCREW TCTC (SCREW No. J2298112 or 2013120206)
2.8 x 8mm SELF TAP. SCREW TCTC (SCREW No. J2298101 or 2013120206)
2.8 x 8mm SELF TAP. SCREW TCT9PBZ (SCREW No. J2298104 or 2016133206)
3.5 x 10mm SELF TAP. SCREW TCTCPRZ (SCREW No. J2298106 or 2016133206)
3.5 x 8mm SCREW PRE, 7.8 (SCREW No. J2298115 or 2509900999)
M3x0.5 NUT H3 (SCREW No. J2298113 or 2601330303)
FLAT WASHER ID 4 (SCREW No. J2139101 or 27099001)

**MISCELLANEOUS,**その他**

K2108101 SPACER, H, 11, 5
13417723R BATTERY CONNECTION
12290523R BATTERY HOLDER
13429823R POWER SOCKET BLOCK
K226108 VIBRATION DAMPING FORM, FO'CVER

**ACCESSORIES,**オプション品**

M1560 DURACELL BATTERY
**NOTE:** The below parts are supported as replacement instead of above parts.

**NOTE:** Above parts are, functionally, the same as the replacement parts. Replacement parts are provided as follows.

**OPTION,**オプション**

ACA-100 AC Adaptor (110V)
ACA-117 AC Adaptor (117V)
ACA-220 AC Adaptor (220V)
ACA-240A AC Adaptor (240VA)
ACA-240E AC Adaptor (240VE)

**NOTE:** Power Supply Board is not included.
RESTORING THE FACTORY PRESETS
/ファクトリー・プリセットのロード方法

1. Switch on your instrument, keeping the [WRITE] pressed.

2. All 32 Factory patched will be restored into your musical device.

3. During the restoring procedure, the LEDs on the panel will blink until the operation is over.
   The restoring procedure requires 30 seconds approximately.

1. [WRITE] を押しながら電源をオンして下さい。

2. 32 のすべてのファクトリー・プリセットがロードされます。

3. ロード中、パネル上の LED は動作が終了するまで点滅します。
   ロードは完了までおおよそ30秒かかります。
POWER SUPPLY PCB ASS'Y
ASSY 7695002000

E CPU PCB ASS'Y (or CPU BOARD)
ASSY 7695001000
LEFT CONTACT PCB ASS'Y w/RUBBER
(or CONTACT BOARD SX)
ASSY 7695005000

View from component side

RIGHT CONTACT PCB ASS'Y w/RUBBER
(or CONTACT BOARD)
ASSY 7695004000

View from component side
LEFT CONTACT PCB ASS’Y w/RUBBER
(or CONTACT BOARD SX)

RIGHT CONTACT PCB ASS’Y w/RUBBER
(or CONTACT BOARD)