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CENTRAL CONTROL PCB ASSY (or CENTRAL C. B.) & CIRCUIT DIAGRAM

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RIGHT CONTACT PCB ASSY & RUBBER CONTACT

LEFT CONTACT PCB ASSY & RUBBER CONTACT

GS80 TEST MODE

PARTS LIST

SPECIFICATIONS

Keyboard

76 Weighted keys, velocity sensitive

Sound Source

Newly developed GS/DS-Rom

Max. Polyphony

64 Voices

Multi-Timbral Parts

32

Music Styles

128 & Variations, 8 Tracks

Resolution

128 ticks per quarter note

User Styles

150

Performance Memory

6

Song Memory

Direct to Disk

Built-In Digital Effects

Reverb, Chorus, Delay, Equalizer

Flap-Up Disk Drive

Score data, ROM, Recording,

Data Load/Save, User Style

User Style Set, Performance Memory

MIDI Set, Chord Sequence

Relay Encoder

Graphic 480X64 pixel backlit LCD

Menu Memory

20 Styles

Jack and Connections

Phones Out

Stereo Out

Output

Foot Switch

Expression Pedal

Foot Controller (FC-7)

MIDI A (In, Out, Thru)

MIDI B (In, Out, Thru)

Mute

AL IN/AL OUT

Master Volume

(Master Volume (Slider))

Mute

(Master Volume (Slider))

On/Off

(Master Volume (Slider))

Tone

(Encoder)

 aliment

(AC 100V)

Phone Output Level

-6 dBu

Phones Out

-6 dBu

Minimum Phones Impedance

150 Ohm

Power Consumption

15W (AC 100V)

15W (AC 117V)

20W (AC 230V)

External Dimensions

127W x 447D x 150H mm

45.9H x 17.6G x 5.91H in

Weight

19.4 kg/42.9 lb

Accessories

MIDI/Cable Guide

MIDI Implementation

Player's Guide (G2)

Reference Guide (E)

Options

FC-7 Foot Controller, EV-9 Expression pedal,

DP-2, DP-4, or PS-8U Foot Switch, MSA, MSD

and GSC series Style Disk

DISASSEMBLY

SCREW
### PARTS

<table>
<thead>
<tr>
<th>N.</th>
<th>PARTS N.</th>
<th>PARTS NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>00787890</td>
<td>SILKSCR. PLEXIGLASS G-800</td>
</tr>
<tr>
<td>2</td>
<td>24378197</td>
<td>BLACK KNOB F/ENCODER E.D.18</td>
</tr>
<tr>
<td>3</td>
<td>7697238000</td>
<td>VARN+SILK. LCD CONTROL SUPPORT</td>
</tr>
<tr>
<td>4</td>
<td>24378201</td>
<td>KNOB GROUP 15x5 W/Diff. BLACK+ LED DIODE TLHR-44011/1502928R11</td>
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<tr>
<td>5</td>
<td>24378203</td>
<td>KNOB GROUP 15x8 - BLACK</td>
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<tr>
<td>6</td>
<td>24378206</td>
<td>KNOB COUPLE 15x8 - BLACK</td>
</tr>
<tr>
<td>7</td>
<td>24378204</td>
<td>BLACK KNOB 15x5</td>
</tr>
<tr>
<td>8</td>
<td>24378205</td>
<td>KNOB COUPLE 15x8 W/Diff. BLACK+ LED DIODE TLHR-44011/1502928R11</td>
</tr>
<tr>
<td>9</td>
<td>7697231000</td>
<td>LCD ASSY G-800</td>
</tr>
<tr>
<td>10</td>
<td>7697209000</td>
<td>CENTRAL CONTROLS PCB ASSY G-800</td>
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<tr>
<td>11</td>
<td>3119101</td>
<td>ENCODER EVO-MOK F15-24B</td>
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</table>

* ALL SWITCHS ARE: SWITCH TYPE EVQ-QVT 05G 1(3129753R1) *

### SCREW

<table>
<thead>
<tr>
<th></th>
<th>PARTS N.</th>
<th>PARTS NAME</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>J2289111</td>
<td>SELF LOCK. SCREW M3x4 TCTC H.6</td>
</tr>
<tr>
<td>B</td>
<td>J2289126</td>
<td>SELF TAP. SCREW 2.8x8 TCTPHBZ</td>
</tr>
<tr>
<td>C</td>
<td>J2139102</td>
<td>TOOTED WASHER 1.0 3</td>
</tr>
<tr>
<td>D</td>
<td>J2289113</td>
<td>NUT 3MA H.3</td>
</tr>
</tbody>
</table>

---

**EXPLDED VIEW 1**
## 76-KEY KEYBOARD TP/8S  Cod. 7697237000

### KEYBOARD PARTS LIST

<table>
<thead>
<tr>
<th>Ref</th>
<th>Description</th>
<th>Code</th>
<th>n</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>KEY SPRING g60 ø122</td>
<td>J679207</td>
<td>76</td>
</tr>
<tr>
<td>2</td>
<td>NATURAL KEY C¥ g(20³) TP/95 ME</td>
<td>J679174</td>
<td>1</td>
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<tr>
<td></td>
<td>NATURAL KEY C g(20³) TP/95 DD</td>
<td>J679172</td>
<td>5</td>
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<tr>
<td></td>
<td>NATURAL KEY D g(20³) TP/95 RE</td>
<td>J679173</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>NATURAL KEY E g(20³) TP/95 M</td>
<td>J679174</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>NATURAL KEY F g(20³) TP/95 FA</td>
<td>J679175</td>
<td>7</td>
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<td></td>
<td>NATURAL KEY G g(20³) TP/95 SOL</td>
<td>J679176</td>
<td>8</td>
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<td></td>
<td>NATURAL KEY A g(20³) TP/95 LA</td>
<td>J679177</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>NATURAL KEY B g(20³) TP/95 SI</td>
<td>J679179</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>NATURAL KEY G2 g(20³) TP/95 SOLF</td>
<td>J679179</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>SHARP KEY g(16) TP/8S</td>
<td>J679180</td>
<td>31</td>
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<tr>
<td>4</td>
<td>SELF TAPPING SCREW 2,9x6mm TC TC FR BZ</td>
<td>J679184</td>
<td>48</td>
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<tr>
<td>5</td>
<td>BIP RUBBER CONTACT</td>
<td>J679181</td>
<td>7</td>
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<tr>
<td>6</td>
<td>LEFT CONTACT PCB ASSY RUBBER</td>
<td>7695050000</td>
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<tr>
<td>7</td>
<td>RIGHT CONTACT PCB ASSY RUBBER</td>
<td>7695040000</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>76-KEY KEYBOARD CHASSIS TP/8S</td>
<td>J679181</td>
<td>1</td>
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<tr>
<td>9</td>
<td>GUIDE BUSHING INFERIOR</td>
<td>J679184</td>
<td>45</td>
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<tr>
<td>10</td>
<td>GUIDE BUSHING SUPERIOR</td>
<td>2259789</td>
<td>76</td>
</tr>
</tbody>
</table>

*Contact boards are complete with rubber contacts*
CIRCUIT DIAGRAM (LOWER CONTROL BOARD)
CPU PCB ASSY (or CPU BOARD)

View from component side
CIRCUIT DIAGRAM (CPU BOARD)
LEFT CONTROL PCB ASSY (or LEFT CONTROL BOARD)

View from component side
MIDI PCB ASSY (or MIDI BOARD)

CIRCUIT DIAGRAM (MIDI BOARD)

XPGS MODULE PCB ASSY (or XPGS MODULE BOARD)
RIGHT CONTROL PCB ASSY (or RIGHT CONTROL BOARD)

View from component side
CIRCUIT DIAGRAM (RIGHT CONTROL BOARD)
FC7 PCB ASSY (or FC7 BOARD)

View from component side

VOLUME PCB ASSY (or VOLUME BOARD)

View from component side

PHONES PCB ASSY (or PHONES BOARD)

View from component side

CIRCUIT DIAGRAM (FC7 BOARD)

CIRCUIT DIAGRAM (VOLUME BOARD)

CIRCUIT DIAGRAM (PHONES BOARD)
RIGHT CONTACT PCB ASSY */RUBBER C. ( or RIGHT CONTACT BOARD */RUBBER C. )

CIRCUIT DIAGRAM(RIGHT CONTACT BOARD */RUBBER CONT. )
LEFT CONTACT PCB ASSY w/RUBBER C. (or LEFT CONTACT BOARD w/RUBBER C.)

CIRCUIT DIAGRAM(LEFT CONTACT BOARD w/RUBBER C.)
G-800 TEST MODE ver 1.00

HOW TO IDENTIFY THE G-800 SOFTWARE VERSION

Press the "F1" button while turning on the instrument.
The display shows:

```
xx.xx version
xx day xx month xxxx year
```

To leave your display, turn off the instrument.

HOW TO ENTER THE G-800 TEST MODE

Press the "F2" button while turning on the instrument.
The display shows:

```
G-800 Test Mode
ver 1.00
```

after a few seconds, the display shows:

```
Music Style
1 Switch
2 Encoder
3 Bender + Pedal
4 Lcd
5 Led
6 Keyboard

Tone
1 Run
2 Pattern Run
3 Dynamic Run
4 Static Run
5 Midi
6 Disk
```

This is the main Menu.

HOW TO LEAVE TEST MODE

Turn off the instrument.

SWITCH TEST

Press the Music Style 1 button.
The display shows:

```
Switch Test in progress....
Name xxxxx 000
```

`xxxxx` = Name of the pressed button
`000` = On (if pressed)
```

To go back to the main Menu, press Tone8 and F5 buttons simultaneously.

ENCODER TEST

Press the Music Style 2 button.
The display shows:

```
Encoder Test in progress....
Drum part = aaa
Accom Grp = bbb
Bass Bank = ccc
Loner Num = ddd
Upper Var = eee
Alpha Dial = fff
```

`aaa` = from 0 to 127
`bbb` = from 0 to 127
`ccc` = from 0 to 127
`ddd` = from 0 to 127
`eee` = from 0 to 127
`fff` = from 0 to 127

Press the F5 button to go back to the main Menu.

BENDER + PEDAL TEST

Press the Music Style 3 button.
The display shows:

```
Bender + Pedals Test
Bender = aaa
Extra Bender = ccc
Modulation = eee
Exp Pedal = fff
Sustain = bbb
Foot. = ddd
Battery = ggg
```

`aaa` = from -127 to +127
`bbb` = On if pressed, Off if released
`ccc` = from 0 to 127
`ddd` = On if pressed, Off if released
`eee` = from 0 to 127
`fff` = from 0 to 127
`ggg` = 3.17V

Press the F5 to go back to the main Menu.

LCD TEST

Press the Music Style 4 button.
Whenever you press the Music Style 4 button, the display shows:

```
light LCD: all the pixels are off.
dark LCD: all the pixels are lit.
LCD shows number 8 on each character.
```

Press the F5 button to go back to the main Menu.
LED TEST
Press the Music Style 5 button.
The display shows:

    Led Test in progress....

All the LEDs will light in sequence one by one.
At the end all the LEDs will light simultaneously.

Press the F5 button to go back to the main Menu.

KEYBOARD TEST
Press the Music Style 6 button.
The display shows:

    Keyboard Scan Test....
    Key = aa
    Vel = bbb

aa = Number Pressed or Released button
bbb = Dynamic value from 00 to 127 (00=Note Off)

Press the F5 button to go back to the main Menu.

ROM TEST
Press the TONE 1 button.
The display shows:

    Ic17(program Rom) Test in progress (A0000-FFFF)
    Ic17 = aaaaa
    Ic14(program Rom) Test in progress (00000-80000)
    Ic14 = bbbbb

aaaaa = OK if everything is right, Error in case of error on Ic17.
bbbb = OK if everything is right, Error in case of error on Ic14.

Press the F5 button to go back to the main Menu.

PATRINT ORM TEST
Press the TONE 2 button.
The display shows:

    Ic4 (pattern Rom) Test in progress
    Ic4 = aaaaa

aaaaa = OK if everything is right, Error in case of error on Ic4.

Press the F5 button to go back to the main Menu.

DYNAMIC RAM TEST
Press the TONE 3 button.
The display shows:

    Ic13 Dynamic Ram Test in progress....
    Ic13 = aaaaa

aaaaa = OK if everything is right, Error in case of error on Ic13.

Press the F5 button to go back to the main Menu.

STATIC RAM TEST
Press the TONE 4 button.
The display shows:

    Ic16 Static Ram Test in progress....
    Ic16 = aaaaa

aaaaa = OK if everything is right, Error in case of error on Ic16.

Press the F5 button to go back to the main Menu.
MIDI TEST

Press the TONE 5 button.
The display shows:

Midi Test in progress...
Connect midi A out to midi in A = aaaaa
Connect midi B out to midi in B = bbbbb

aaaaa = OK if everything is right, Error in case of error.
bbbb = OK if everything is right, Error in case of error.

Press the F5 button to go back to the main Menu.

DISK TEST

Press the TONE 6 button.
The display shows:

Disk Test
 Disk xxxxxxx
HD
TRACK = aaaa Sector = bbbb

xxxxxx = Reading or Writing
yyyyyyyy = OK if everything is right, Error in case of error,
 Disk protected, Disk Not Formatted, Insert Disk, Write Error,
 Recalibr.Error.
aaaaa = Track number.
bbbb = Sector number.

Press the F5 button to go back to the main Menu.

RECOVERING FACTORY DATA

Caution!!!
Save Performance Memory (if any), MIDI Set (if any) and Chord
Sequence/Arranger Loop onto the disk to avoid data loss.
For saving method refer to the Owner Manual (Disk section).

Hold the WRITE button while powering on the instrument,
the display will show:

Original FACTORY SETUP has been
LOADED!!

The CMOS S-RAM (IC 16) will be initialized in this way:
- Factory Performance Memory (1 to 192) will be loaded.
- Factory MIDI Set (1 to 8) will be loaded.
- Chord Sequence/Arranger Loop Data will be cleared.
- SEOREC ST Change parameter will be set ON.
At the end of the initialization procedure the instrument will
enter into normal operation mode.