The GS-10's Self-Test

This document attempts to describe the BOSS GS-10's self-test procedure.

With the GS-10 switched off, hold the DELAY TAP button and the button below CHORUS LEVEL, then press the POWER button at the back:

First the display flashes "`SRAM check...`".
Then it says:
```
    GS-10
Ver. 1.00 [D749]
```
Press EXIT.

`1.EEPROM Check`
The display flashes "`Now Checking...`".
Then it says:
```
V1.00  Sum[C548]
```
Press EXIT.

`2.DSP Check`
The display flashes "`--- OK! ---`" and goes to #3.

3. All the cells in the display and all the LEDs on the buttons light up.
Press EXIT.

`4.LCD Contrast`
```
    Contrast=15
```
Rotate the PATCH/VALUE knob to the left until the display says `Contrast=0`, then rotate the knob right, back to "`15`", upon which the display goes to #5.

`5.Switch`
`PREAMP`
Press the PREAMP button: its LED goes out and the display says:
`CH SEL A`
In this way you process all the buttons.
After the final button (SPEAKER), the display goes to #6.

`6.VR Check`
`Set VR to Min`
Move the GAIN knob fully to the left, upon which the display says:
`PRE GAIN    :  0`
Then you rotate the GAIN knob fully to the right until the display says "`255`", upon which it

goes to "PRE BASS".

Act similarly for all the knobs on the left side of the GS-10. (Note that the PATCH/VALUE, AUX INPUT LEVEL and OUTPUT LEVEL buttons are *not* covered here!)

After the last knob the display goes to #7.

If you've connected the EV-5 expression pedal, the display says:

```
7.SUB EXP PEDAL
  [---][-*-][---]
```

Press the pedal fully down, upon which the display says:

```
  [-*-][***][***]
```

Lift the pedal fully up, upon which the display flashes:

```
  [***][***][***]
```

... and the display goes to #8.

However, when *nothing* is connected to the EXP/CTL PEDAL socket, the display says:

```
7.SUB EXP PEDAL
CTL 1        On
```

If you then connect a CTL 1 pedal, you can switch between "On" and "Off" by pressing the CTL 1 pedal.

However, you can't reach #8 this way: you *must* connect an EV-5 to do so.


```
8.Battery
      n.nV
```

(Ideally this should say "3.0V". In my experience the GS-10 accepts values down to 2.7V. Once the value goes down to 2.6V, the GS-10 starts up saying "Battery Low !! Please Change". Refer to my document 'GS-10 battery.pdf' for instructions on battery replacement.)

Press EXIT.


```
9.MIDI IN/OUT
```

As long as you have *not* looped a MIDI cable from the GS-10's MIDI IN to the GS-10's MIDI OUT, the display says:

```
 No Connect
```

Once you do loop a cable from MIDI IN to MIDI OUT, the display briefly says "- Verify OK! -" (or so), then goes to #10.


```
10.OUTPUT D/A
```

The display toggles automatically (at an interval of about 2 seconds) between

```
  Mute Off/--
```

and

```
  Mute ---/On
```

(I'm not sure whether you're supposed to *hear* anything in any way.)

Press EXIT.


```
11.DIGITAL OUT
```

Same story as 10:

```
  Mute Off/--
  Mute ---/On
```


```
12.SPEAKER OUT
```

```
   [DSP---->OUT]
```
The SPEAKER button's LED is now on and the GS-10's speakers are outputting a continuous tone (a sine wave of about 175 Hz?): use the OUTPUT LEVEL knob to set the volume.
Press EXIT.

```
13.AF GAIN
   [GTR --->OUT]
```
Press EXIT.

```
14.GTR INPUT A/D
   [GTR --->OUT]
```
Press EXIT.

```
15.MIC INPUT A/D
   [MIC---->OUT]
```
Press EXIT.

```
16.AUX INPUT A/D
   [AUX---->OUT]
```
Press EXIT.

```
17.AUX MIX OUT
   [AUX->MIXOUT]
```
Press EXIT.

```
18.DSP INT0
```
"`--- OK! ---`" or so; automatically to #19.

```
19.Noise(IN->OUT)
   [IN----->OUT]
```
Press EXIT.

```
20.USB OUT/IN
```
If the USB cable is connected to the GS-10 (not necessarily connected to a computer), you get:
```
USB RETURN-->OUT
```
If the USB cable is not connected to the GS-10, you get:
```
  No Connect
```
Press EXIT. (This is possible even with 'No Connect'.)

```
21.Factory Load
    press [WRITE]
```
You can now either switch off the GS-10 by pressing the POWER button, or press WRITE.
If you press WRITE, the display asks "`Sure ?`"
If you then press WRITE again, the display briefly says `Now writing...` (or so), then:
```
Test Completed !
  Turn Power OFF
```
Press the POWER button.