BISCUIT REVISION 1.2 (September 2010)
This version brings the following new features and improvements :

1/ 4 NEW EFFECTS:

You can access 4 new effects in the effects section (BRAIN switch lit up blue).
First select « **WAVE** » mode (the « **5 WAVE** » switch turns red)
Then select the « **4/ F3** » switch which turns red.
Now select one of the 4 effects with « **2 / F1** » and « **3 / F2** »

1.1 Vibrato (the switch 1 turns up white):
This is a short delay that is modulated by a sinusoidal LFO. The delay time is offset between left and right to create a stereo effect. The « **CLOCK** » pot sets the vibrato rate. If you mix the vibrato with your direct signal (« **NAKED** »), you'll get a chorus effect.

1.2 AR Envelope Filter (the switch 2 lights up white):
This is a special Envelope Filter which works in the same way as the waveshapers 6,7 and 8 (but without the oscillator)

The « **DRIVE** » potentiometer sets a threshold.

The "**CLOCK**" potentiometer sets the Attack or Release time depending on it's position:
First half : Attack is very fast, Release time is very short at the beginning and increases in the first half of the CLOCK potentiometer.
Second half : Release is slow, Attack time is very short at the beginning and increases in the second half of the CLOCK potentiometer.

The "**FREQ**" potentiometer sets the envelope intensity depending on it's position:
First half : Filter frequency is at its minimum setting and envelope intensity increases in the first half of the FREQ potentiometer.
Second half : Envelope intensity is at its maximum setting and filter frequency increases in the second half of the FREQ potentiometer.

If you set the "**DRIVE**" pot low, you will notice fast triggering of the Envelope Filter attack. This is a quite funny effect.

1.3 Low Alternate rectifying (the switch 3 lights up white):
This effect is similar to the waveshaper 2 except that only one of 4 alternations is used.
This is effectively a 2 octave down distortion.

1.4 "Tube" Clipper (the switch 4 lights up white):
This is a smooth saturation, pretty similar to a tube saturation .(but in 8-bits !)
This provides very good results with drums and bass sounds.

2/ CONSTANT OUTPUT LEVEL:

Previously some bit combinations could generate important level differences.
It prevented from using the bit 1 alone for instance, because of a very low output.
Output level is now constant regardless of the bit combination used.

NB:
Constant Output Level feature was included on previous firmware revision.
So you may have this feature already installed in you Biscuit and won't notice any difference.

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3/ STEP FILTER:

3.1: Steps 5 and 7 were added to the « **NUMBER** » function.

3.2: When the STEP FILTER is in Play mode, you can move the « **FREQ** » potentiometer and your modification will be taken into account, only on the currently selected step.

3.3: The position of potentiometer "**Q**" as well as the " **FILTER** " mode are now also taken into account in the STEP FILTER sequencer.
When you load an old preset (created under the previous version), the Q and FILTER settings are memorised into the 8 steps to keep compatibility.

NB:
Should you prefer the old STEP FILTER version (with only the FREQ taken into account), you can deactivate this new version:
1- BRAIN is light up, check that STEP is on (switch 8 light up red),
2- Press BRAIN which goes OFF,
3- Press BRAIN again and keep it pressed,
4- Press switch 8 (STEP) while keeping BRAIN pressed.
You can go back to the new STEP FILTER version by following the same procedure. The version is kept into BISCUIT memory.

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