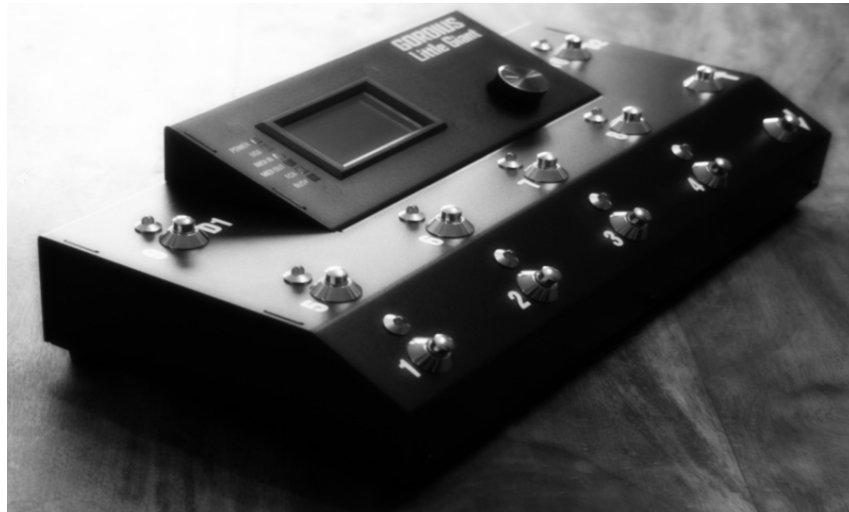


# Expression pedal Calibration

## **GORDIUS LG2 (LGM2/LGX2)**



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# GORDIUS Little Giant 2

## *The jack inputs of the LG2*

The LG2, LGX2 and LGM2 have 4 expression pedal inputs. These can be used to connect expression pedals or external switches which extend the LG2 bank layout. In the future, each of these jack inputs will be fully configurable, and compatible with

- an expression pedal, connected through a stereo TRS jack (wiper connected to tip or to ring)
- a momentary or latched switch, connected through a mono TS jack
- 2 momentary or latched switches, connected through a stereo TRS jack. (with common lead connected to tip, ring or sleeve)

However, for the moment the LG2 firmware still supports a limited number of possible configurations only, that is, the configurations which were supported by the “generation 1” LittleGiant units :

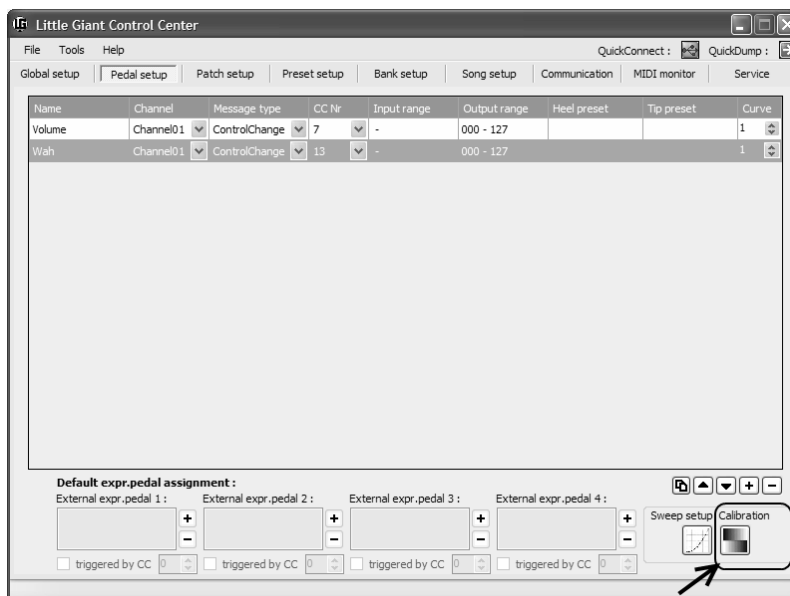
- 4 expression pedal jacks
- 2 expression pedal jacks (on jack 1&2) and 2 single momentary switches (on jack 3 & 4)

A future firmware upgrade will allow each of the jack inputs to be fully configurable.

## *The expression pedal calibration procedure*

Each expression pedal, connected to the input jacks of the LittleGiant, needs to be calibrated, in order to have a correct adjustment range. Control Center (the PC editor for the Little Giant) contains the necessary dialogs to do so.

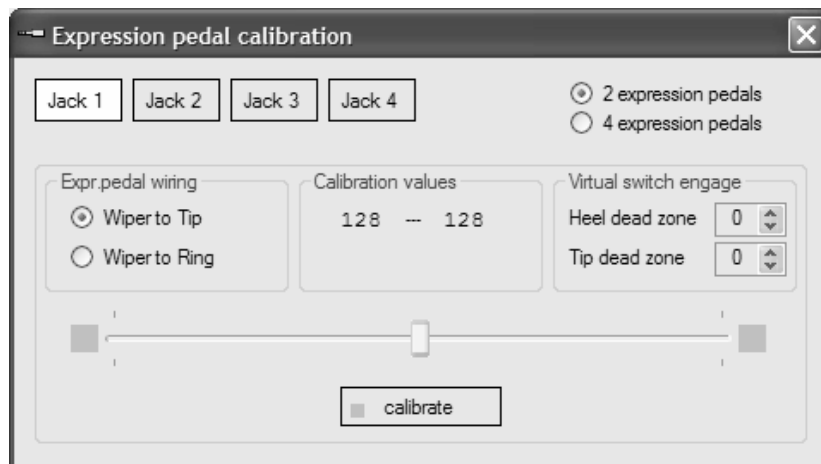
After launching ControlCenter, make a connection with your LG, by clicking the “connect to Little Giant” button in the Communication tab. The pedal calibration dialog cannot be opened as long as no LG is detected on the USB port. When the connection with your LG is made, go to the “Pedal setup” tab, where you will find the Calibration button in the lower right corner, next to the sweep setup button.



*Pedal calibration button*

Make sure all pedals and switches are connected before starting calibration.

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*Calibration test menu*

At the top right of the calibration menu you can make the choice between 2 or 4 expression pedals (more flexibility will be available in the future). In case of 4 expression pedals, all 4 “jack” tabs will show the same interface as shown above. In case of 2 expression pedals, clicking the “Jack 3” or “Jack 4” button will reveal a different setup screen, as shown below.

With the “Jack 1” button activated, move the expression pedal connected to this jack input. The big slider moves along with the pedal movement. If the end-of-range point is reached at either side, a red square is lighting up. This signals a “virtual footswitch trigger”. (For more info about virtual footswitches, read the appropriate chapter in the user manual)

Before calibration, a full expression pedal sweep will most probably result in a partial sweep on the slider. The 2 squares will never light up. Now click the “calibrate” button to start calibration.

A smaller slider appears beneath the calibration value display. Move the expression pedal to both extremes, you will see the calibration value range change from 128 – 128 to the detected values, probably something like 20 – 240. A simple back and forth movement is sufficient. Once both extreme values are detected, click the “calibrate” button again to leave calibration mode, and return to test mode. If you move the expression pedal now, you should see the full slider range is covered, and each of the 2 red squares should light up when reaching each end-of-range.

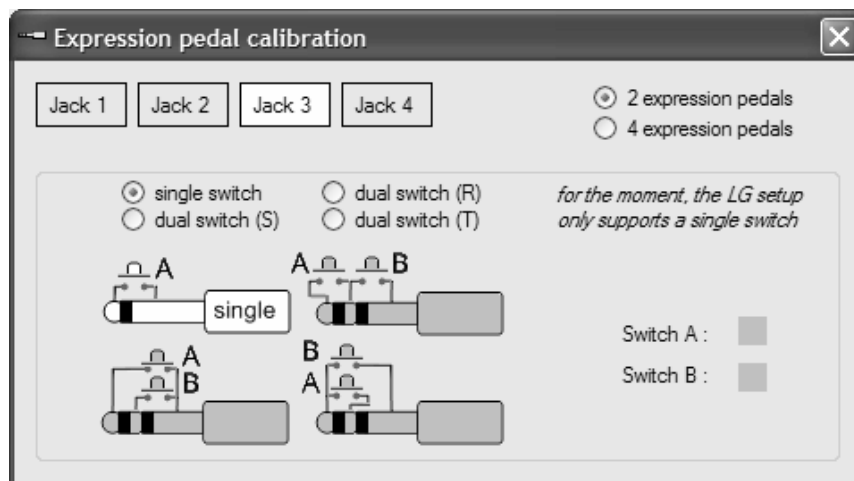
You might prefer a “virtual footswitch” to be triggered a little earlier than at the extreme end of the range. This can be done by introducing a “dead zone” at heel or tip. Adjust the dead zone values in the dialog. The changes are immediately sent to the expression pedal, and you can test the result: the red square should light up a little earlier, when moving the pedal towards the tip or heel position.

If correct calibration is impossible, you probably chose an incorrect wiring scheme: 2 radio buttons let you choose each of the 2 frequently used wirings: “wiper to tip” or “wiper to ring”.

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## The external switch setup and test screen

When choosing the “2 expression pedals” option, jack 3 and jack 4 can be used for connecting an external footswitch. The corresponding setup screen is shown below:



Switch setup and test screen

This screen is mainly for future reference, since the different possible choices will only be available after the mentioned firmware upgrade. For now, only the first option, “single switch” with a mono jack, is available. The “Switch A” square should turn red when you click the connected footswitch. No calibration is needed on footswitches.

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