PC FUNCTION GENERATOR

Velleman PCG10

DIAGRAMS AND CALIBRATION

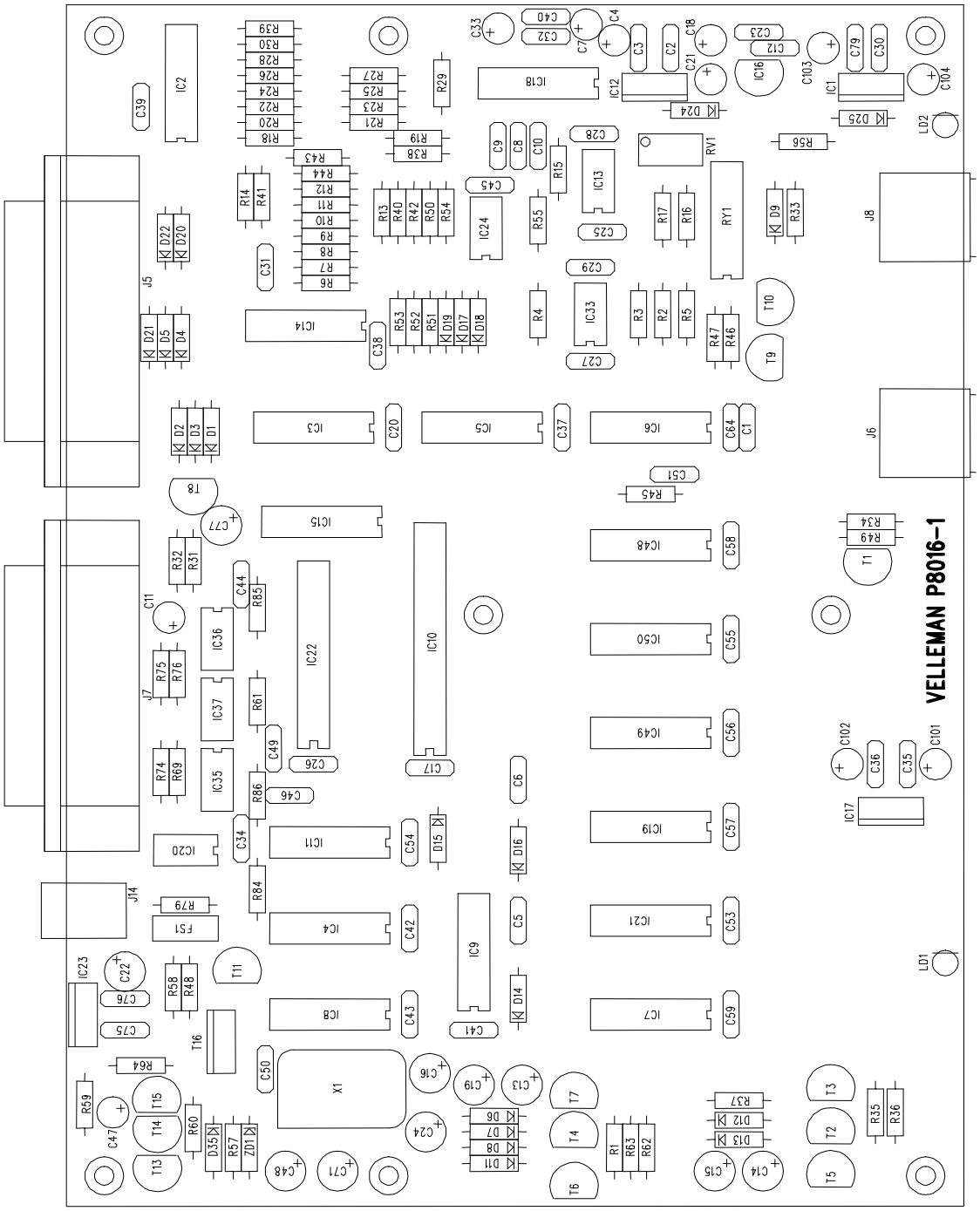
1. CALIBRATION

To allow calibration, the unit must be connected to the computer and the supplied software must be installed. Please consult the 'Getting Started' manual for details on the connection and installation procedure.

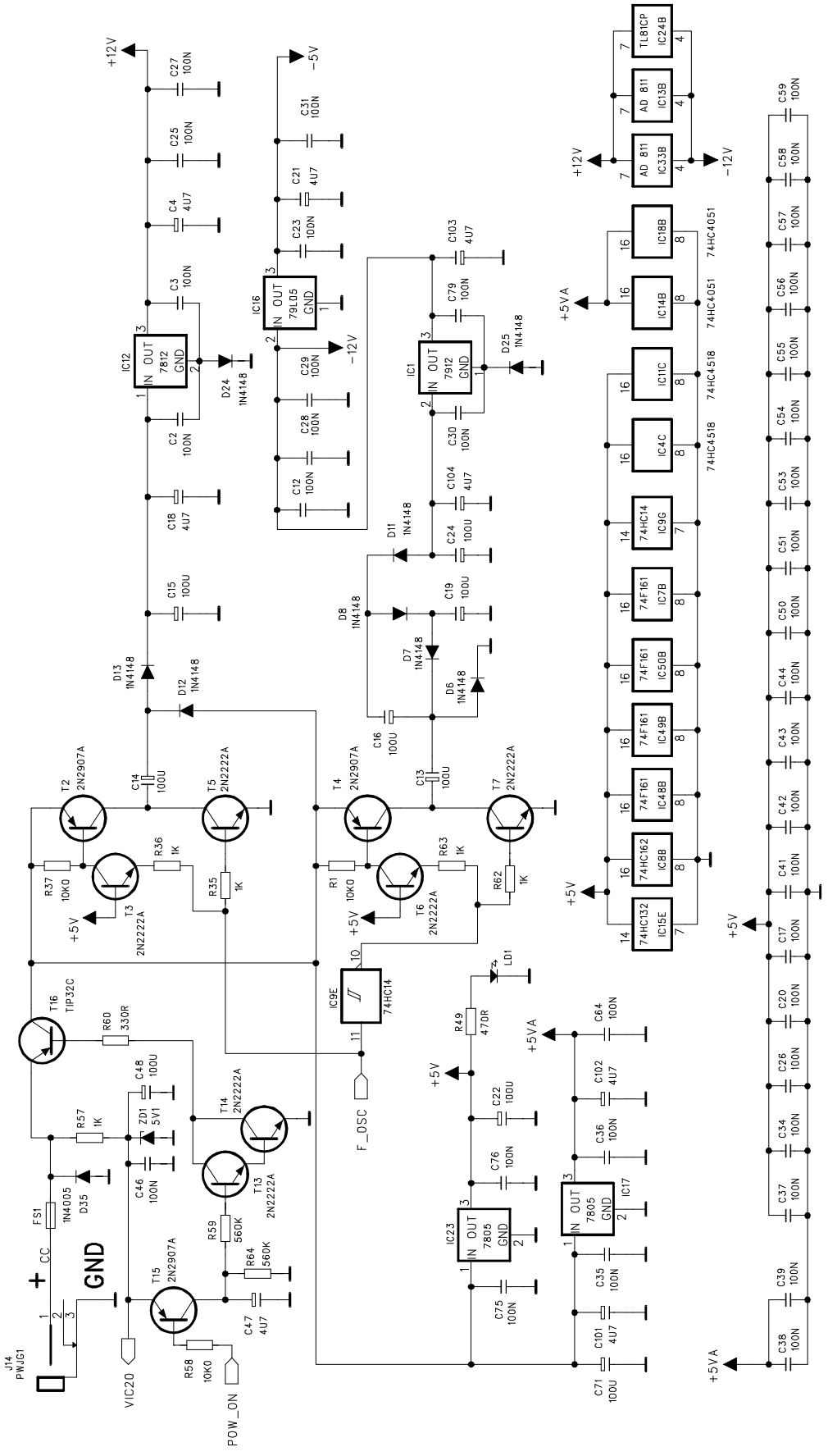
- Select the function generator module [Function generator].
- Select the correct parallel port [Options > Hardware setup].
- Check if the 'POWER ON' (LD1) LED lights. If it does not light, check the complete assembly and check the parallel port settings in the
- options-hardware setup of the software.
- Make sure the frequency is set to 1000Hz (1KHz). Adjust if necessary.
- Make sure the offset is set to 0V. Adjust if necessary.
- Make sure the amplitude is set to 5Vpp. Adjust if necessary.
- Select sinewave output . Readout should now show a sine wave and the 'READY' LED (LD2) should light.
- Connect a digital multimeter to the 'signal out' connector of the generator. Set it to DC volts. Adjust the multi-turn trimmer RV1 until the multimeter displays zero volts. If necessary, adjust the range of the meter to obtain a higher resolution. Now you can check the wave-form, using an oscilloscope or one of our PC- or handheld scopes

IF SPECIAL TEST SOFTWARE IS USED THEN CALIBRATION MUST BE DONE WITH THIS SOFTWARE AND PCS500 SCOPE

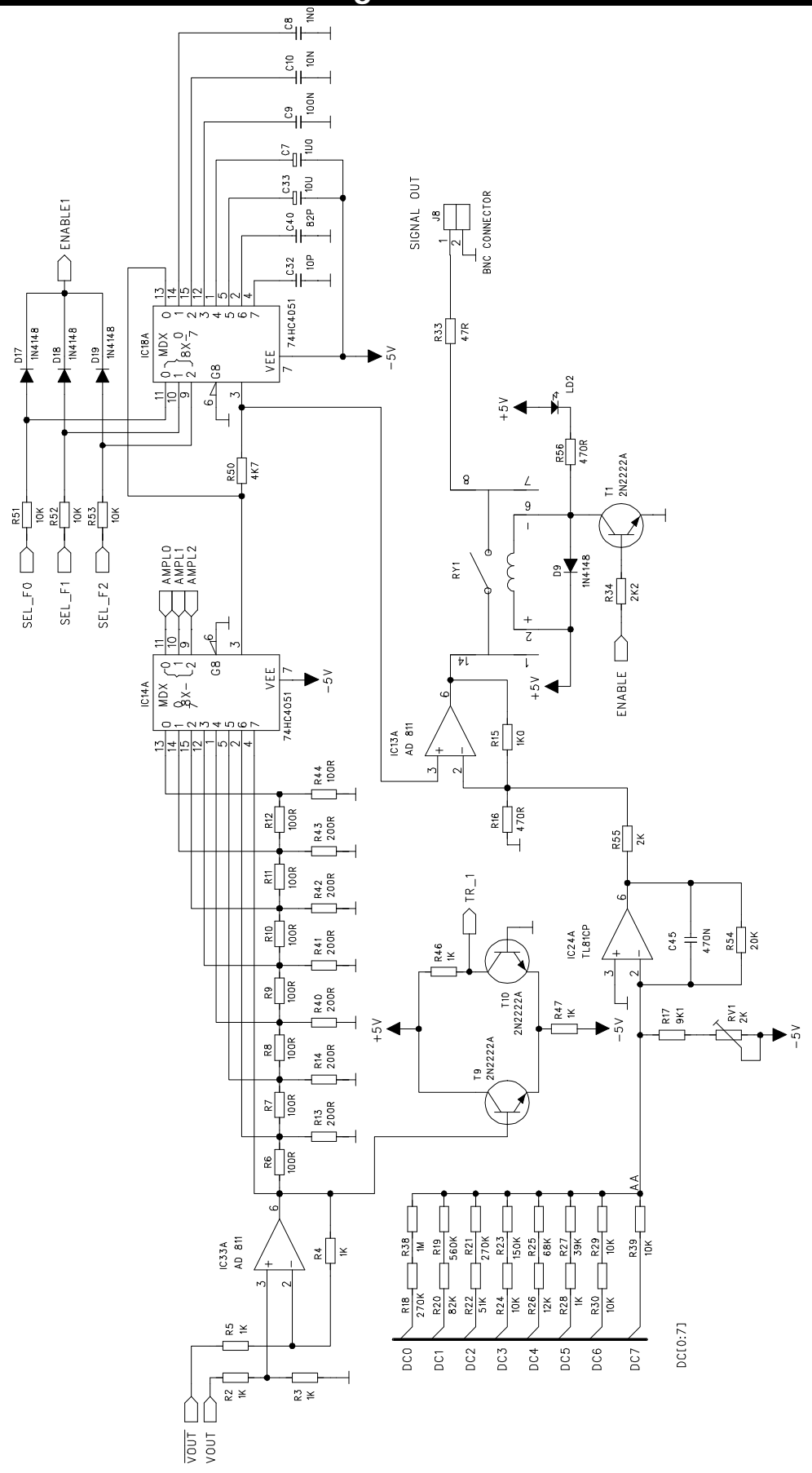
2. PCB (Component side).



3. SCHEMATIC DIAGRAM: Power supply section.



4. SCHEMATIC DIAGRAM: Analogue section.



5. SCHEMATIC DIAGRAM: Digital section.