

You'll need:

- Soldering board and equipment
- 4 pc. MIDI sockets
- 4 pc. foot switches (momentary)
- Stereo jack socket with switch
- 2 pc. LEDs (20 mA max), 3 if you also want to have a power-on LED, which I deleted
- External volume pedal

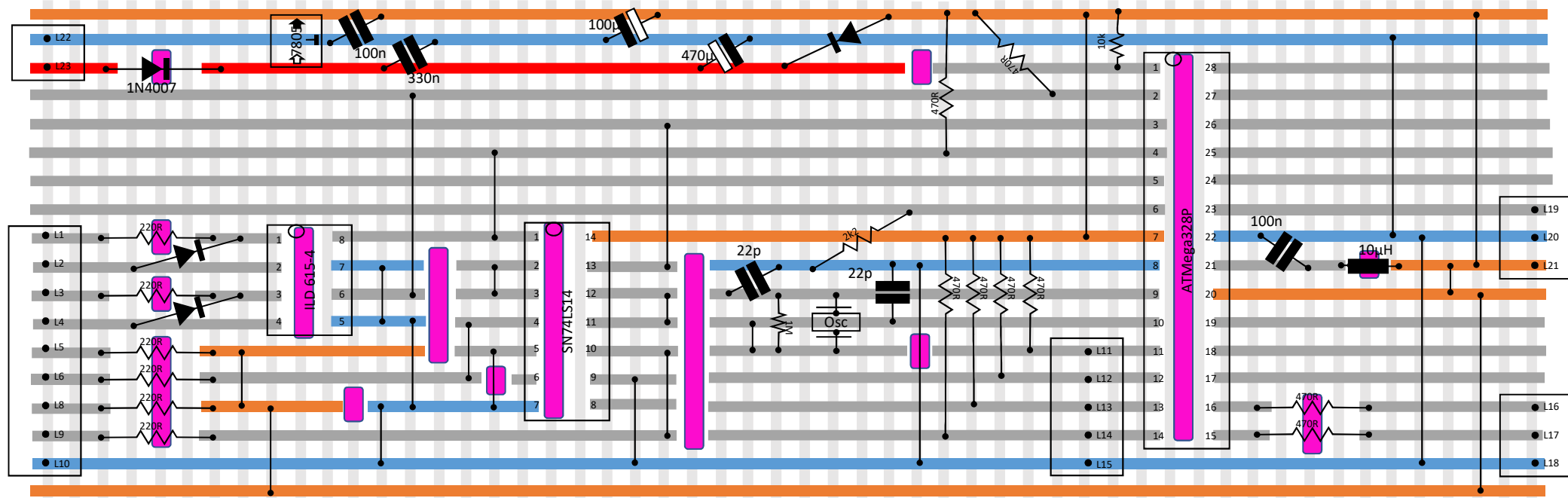
- 8 ... 15V power supply (800mA)
- Socket to connect power supply
- 1 pc 7805 voltage regulator
- Housing
- Cables to connect switches, LEDs, sockets etc.

- 4 diodes 1N4007 or similar
- 8 pc. 470 Ohm resistor
- 6 pc. 220 Ohm resistor
- 1 pc. 2.2 kOhm resistor
- 1 pc. 10 kOhm resistor
- 1 pc. 1.0 Mohm resistor

- ILD615-4 opto coupler (2channel) or similar
- SN74LS14 logic IC
- ATmega328P-PU micro controller with Arduino Boot Loader
- Sockets for the ICs
- 1 pc. 16MHz oscillator
- 1 pc. 10µH inductivity
- 1 pc. 100µF electrolytic capacitor
- 1 pc. 470µF electrolytic capacitor
- 2 pc. 22pF caps
- 2 pc. 100nF caps
- 1 pc. 330nF cap

Front view

- light grey lines (vertical) are only to visualize the grid
- Dark grey, blue, red and orange lines: copper leads on the back of the board with:
- Blue lines: GND lines, orange lines +5V, red: + 8 ... 15V
- Magenta fields: here the copper lines on the back have to be interrupted! Important!!



Foot switches

