

How to modify a Minimoog using MiniCV

The Minimoog has got no proper CV/gate jacks. An external MIDI converter is not possible. You need to install an internal midi converter if you want to control your Minimoog and the MiniCV is your best choice. The MiniCV fits the powersupply of the Minimoog. It only needs 1mA , most converters need much more. The voltage of the Minimoog is perfect for the MiniCV. Installation will only take 15 minutes. You don't even have to open the actual synth or cut traces on PCB's and the glide function also works with midi! Works with all Minimoogs, new or old VCO's.

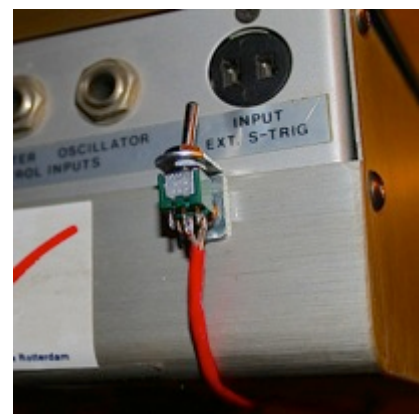
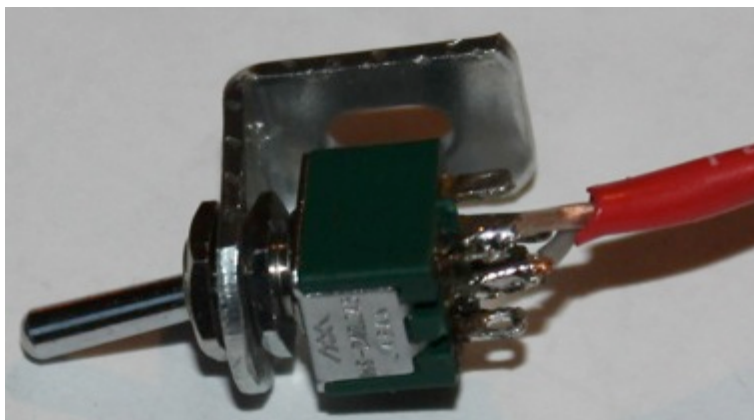
1 Open the Minimoog keyboard.

Remove the 8 black screws of the bottom panel. Find the connector that goes from the keyboard to the actual synth.



2 Prepare and install the switch.

You need one single pole switch to switch off the midi (CV only). You could install it instead of the jacks above the benders. We prefer to do it outside the synth. We only had a double pole switch in stock, sorry for that.

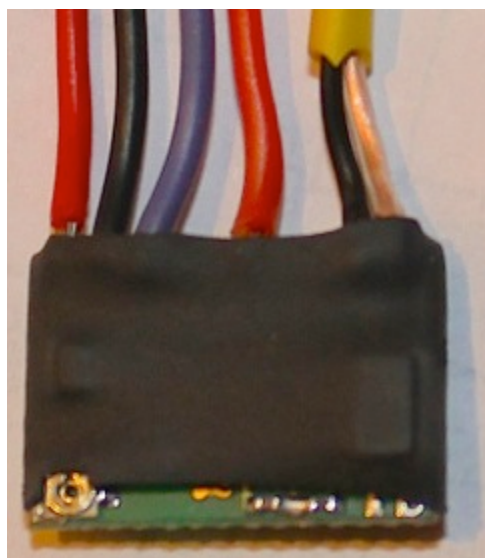
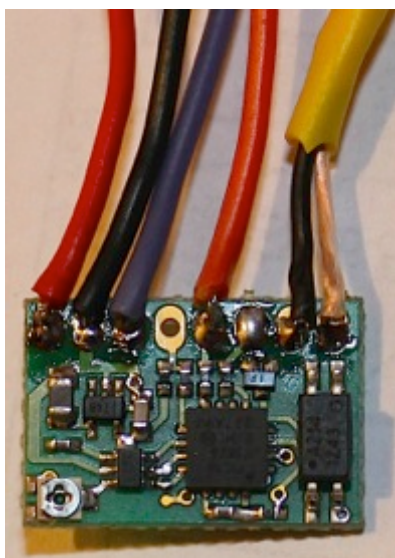


3 The MIDI connectors.

We are going to add a cable mount DIN socket coming out of the case of the Minimoog so we don't have to damage the Minimoog. It is the insulated yellow wire in the next pictures.

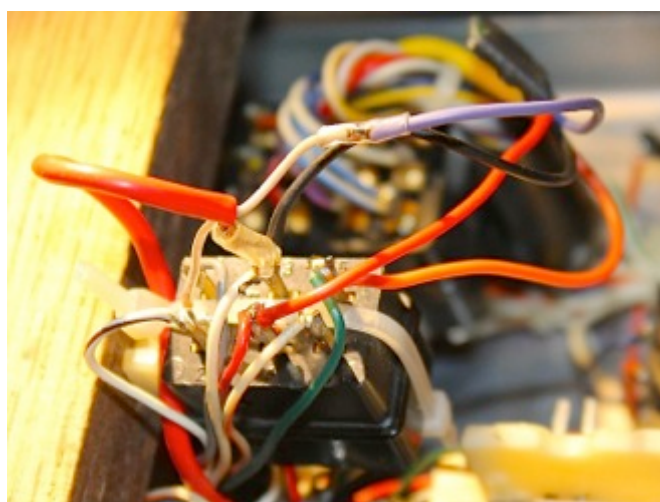
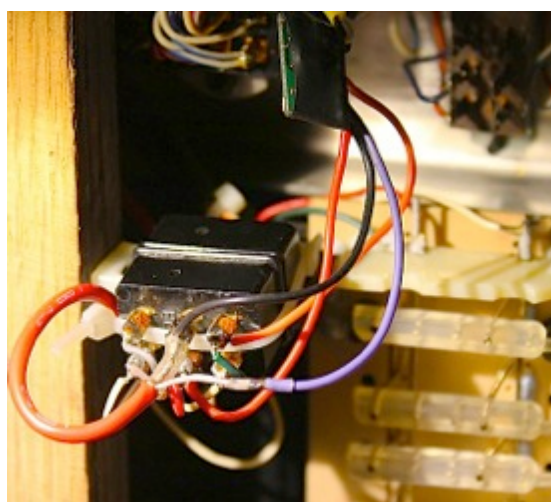
4 Prepare and install the MiniCV

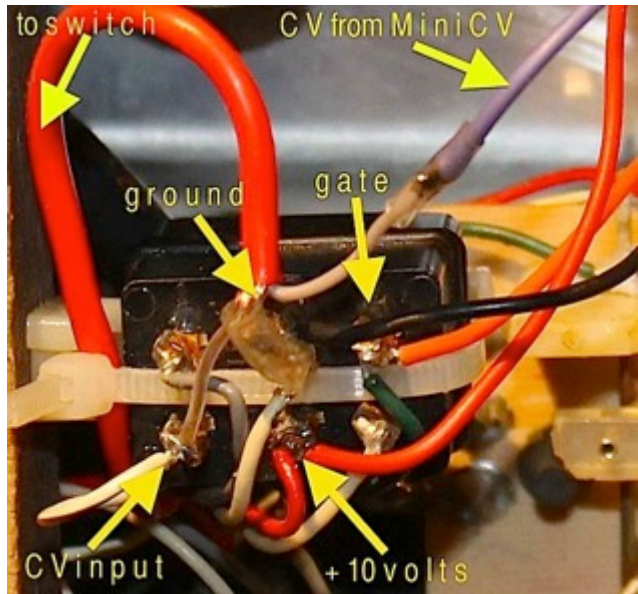
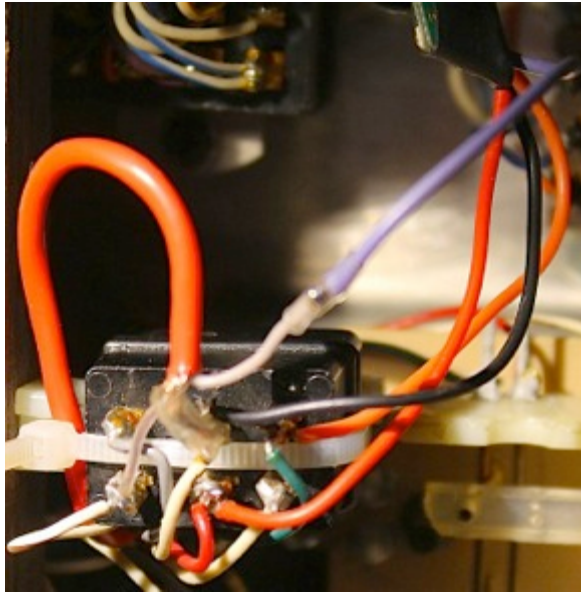
Solder wires of about 10 cm to the corresponding places on the MiniCV. If you want, you can put heat shrink tubing over the MiniCV to protect it from short circuit.



6 Solder the power wires (black & red).

Find the white wire (not white/orange or white/brown), and the red wire on the connector that goes to the keyboard. Switch the Minimoog on and measure between those pins 10 volts. Ground wire of the MiniCV (black) goes to the white wire on the socket. The MiniCV is perfectly happy with the regulated 10 volts of the Minimoog. Don't use leadfree solder here. Solder the powerwire (red) to the red wire on the socket.





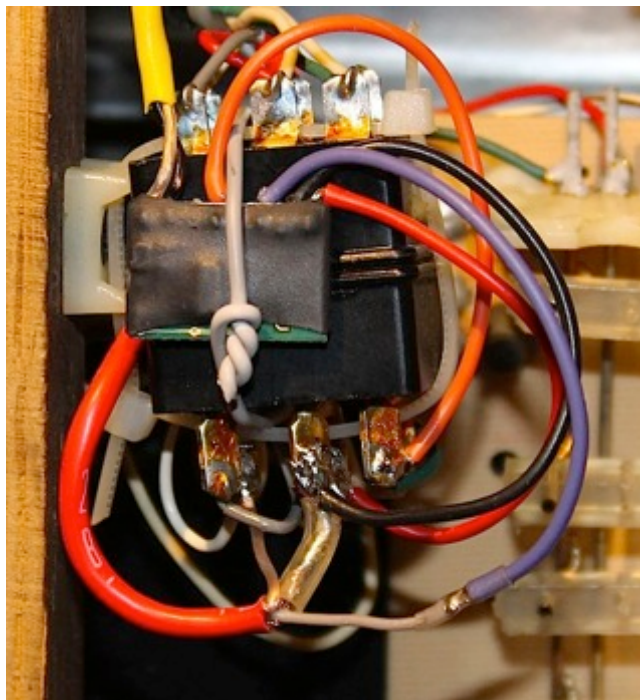
7 Solder the gate wire (orange).

Solder the gate wire to the socket pin with the green wire.

8 Solder the CV wire (purple/insulated wire).

Take the shielded cable from the switch you installed before. Solder one wire to the purple CV wire coming from the MiniCV and the other wire to the pin of the socket with the white/brown wire. Use shielded cable and solder the shielding to the groundpin, the one where you soldered the black wire before. Now you can switch the CV coming from the MiniCV in or out. You can do the same with the gate but it is not necessary.

9 This is how it looks when the work is done.



Now close the Minimoog and enjoy!!