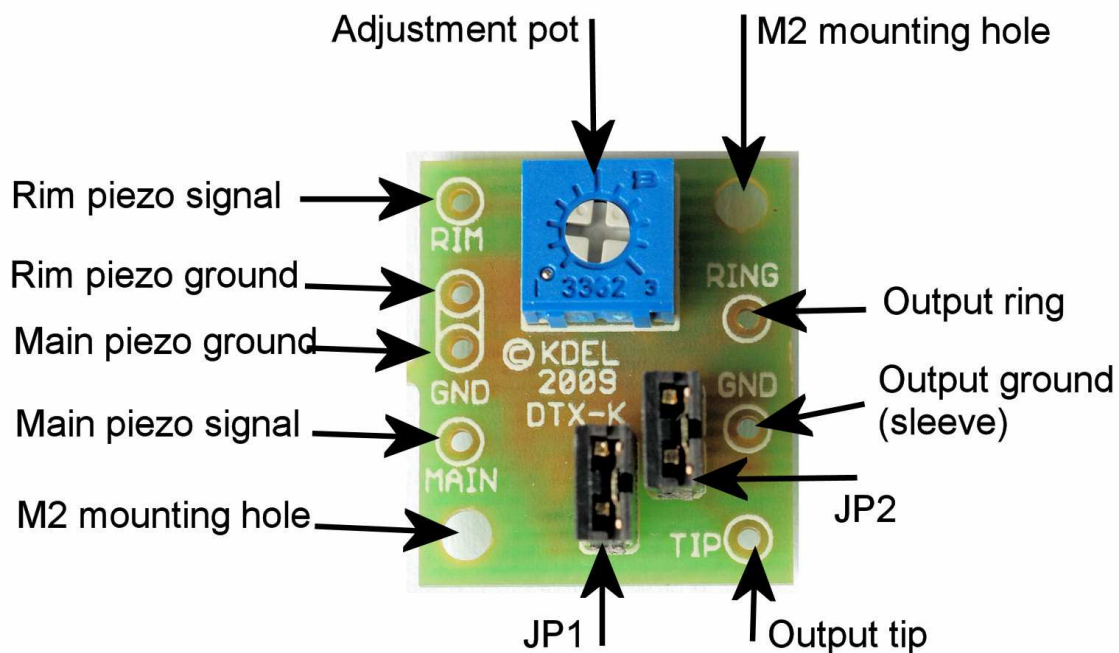




## DTXpress Input Expander Instructions

The DTXpress input expander allows the signals from two separate piezo drum pads to be combined into a single "stereo" input for the DTXpress dual zone inputs. This provides the "rim switch" signal required by the DTXpress module. A typical use would be to add extra sounds such as cowbells, cymbal bell or other percussion sounds to unused stereo inputs such as the tom pads. The main limitation is that when a dual zone pad is used, only one of the two sounds for that input can be hit at a time. So, if you tried to use it for two tom pads, you couldn't hit them simultaneously and get two different sounds, in the same way that on the snare you can have the rim sound or main pad sound but not both simultaneously. The main pad will always be more sensitive than the rim pad. This is why the pad selection needs to be carefully thought about. The expander can also be used on other makes of module which require a piezo + switch type input. It has been successfully used on some of the Roland modules.

Below is a picture of the PCB as supplied:



The two piezo pads connect to the left hand side of the PCB. Multi-strand cable such as 7/0.2mm is recommended. The output requires a stereo connector/cable with the connections to the right hand side of the PCB. There is a sensitivity adjustment pot as shown. This adjusts the sensitivity of the rim switch circuit. This is usually left at maximum sensitivity. There is a jumper JP1 which bypasses a diode in the main pad input. When jumped as show, the sensitivity of the main pad is improved at the expense of some rim sensitivity, so some experimentation may be required. JP2 removes the connection of the rim pad to the output. This is only used where a switch is required from the piezo, but no piezo signal. The unit needs no power supply.