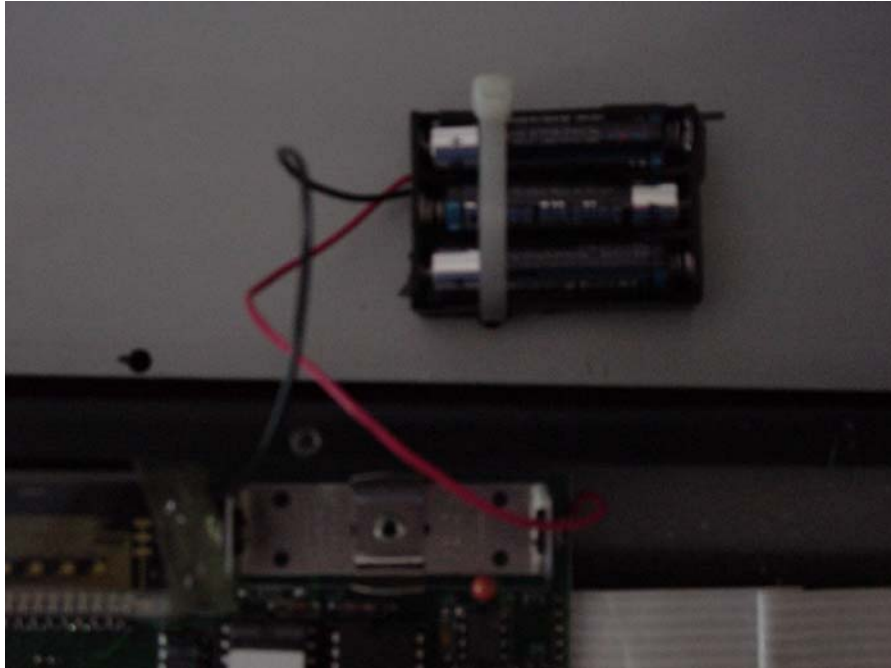


Digitech PMC10 Backup Battery and Expression Pedal Modifications

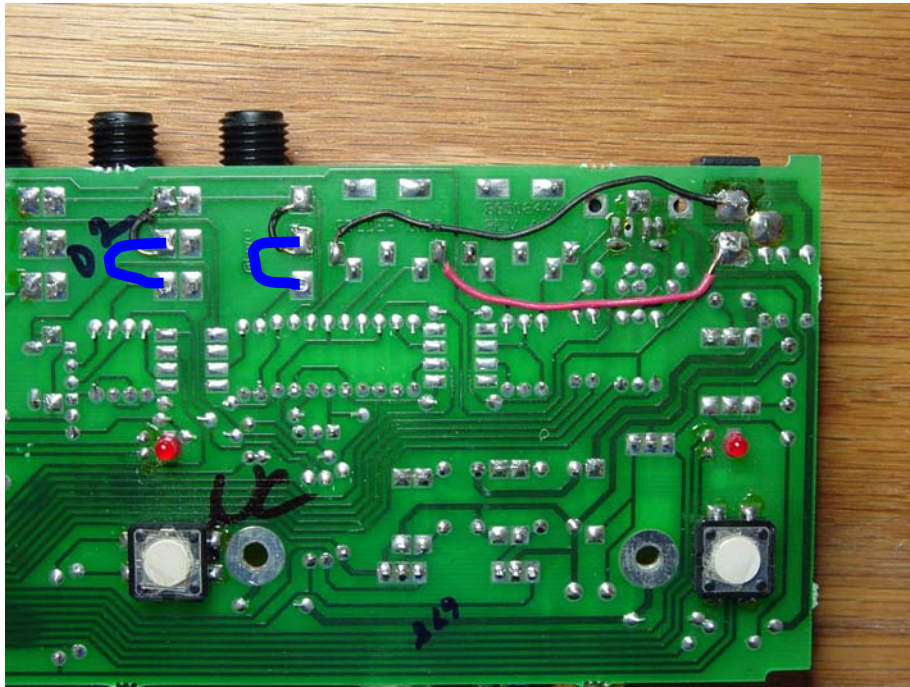
The 4.5V backup battery in the PMC10 is hard to find, and adds a fairly large mass lump to the main board. The backup PMC10 that I have had been dropped, and the battery clip slid into the end bracket. I decided to mount a 3xAAA battery holder to the bottom plate, and tie the batteries in with tie wraps so they won't rattle around after an unintended gravitational event.



The first one I mounted to the bottom plate with screws, which was waste of time. The second one I drilled four holes in the bottom plate, two in the battery holder, and used three tie wraps to hold them in place. A much better solution.

If you've tried plugging an expression pedal like the Yamaha FC7 directly into the PMC10, you know that it doesn't work. The potentiometer wiper is connected to the ring of the TRS connector, with the fixed ends of the resistor to the sleeve and tip. The ring is not connected to anything in the PMC to, so the resistance that the pedal varies never gets through. One of the Budd boxes on the old board that I dragged around had TRS phone jacks on one side, with the sleeve and ring connected to TS ¼ in plugs that were plugged into the PMC10 continuous controller jacks. A couple of jumpers on the power & IO board removes the need for that extra external box.

The photo shows how I first added jumpers, to short out the sleeve and ring on the input jack. This would have allowed the use of volume type pedals as usual. However, I had to calibrate the pedals backwards (down is up, up is down), and simply inverting the pedal action in the menus did not give a satisfactory result – all the range was used up with very little pedal travel. Now the tip and ring are bridged, and the pedal works through the range without any software inversion, but volume type pedals will not work. Oh well. So, the blue sketched-in jumpers work, and the short black jumpers in the photo do not.



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