



ADA MP-1
Battery Mod

Kim Goodwin
11-5-03

Permission denied for re-posting except by explicit permission from



Overview:

The MP-1 has a 3v lithium battery inside to provide the "juice" for patch storage. We all know that! This battery does not have any affect whatsoever on the tone, sound, erratic MIDI behavior, etc., and is soldered in place. Who the hell came up with THAT idea? So if we want or need to change out the old battery for a new one, we have to first find the correct battery to replace the old one with, and THEN bust out all the soldering equipment too? Give us a break.....

This mod basically replaces the pain-in-the-ass procedures (as far as just changing the battery goes anyway) and the near-obsolete battery type with a newer more up-to-date version of battery retainment. Ever take a peek inside your PC? See that little battery in there? More importantly, ever notice how it is fastened to the board? Ahh, a light went on! Why didn't the MP-1 have this very same setup? Weren't these PC type batteries and receptacles invented yet back when the MP-1 was designed and manufactured? Hmm... not sure about that, but our MP-1 preamps damn well deserve this very same upgrade! If you're planning on keeping your MP-1 around for the long haul, you owe it to yourself and your MP-1 to do this mod so the very next time (and the time after that, and the time after that....) you want to change the battery, you'll be VERY glad you did! *Again, if you're new to soldering techniques, I **highly** recommend checking out some of Hairston's well-written documents regarding "Solder-Monkey" practices. [This mod is also an excellent place to start with your "first-ever" mod, just because of its sheer simplicity!](#)*

What you need:

Soldering iron

Solder

De-soldering braid (or "solder-sucker")

Battery receptacle (Mouser part #**534-104**)

Battery (Mouser part #**658-BR2325**)

A continuity tester is helpful for checking your work

Get on with it already!

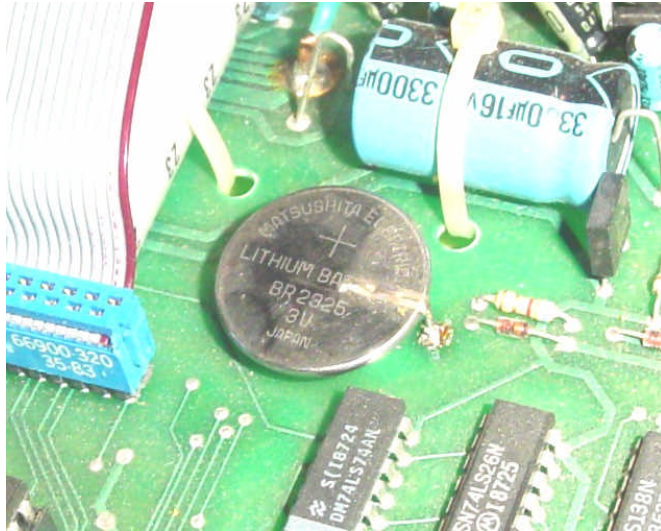
STEP 1:

Unplug and un-rack your MP-1. Remove both the top and bottom lids. You'll probably want to write down any patch settings you have created first, since all memory will be lost once the battery is removed.

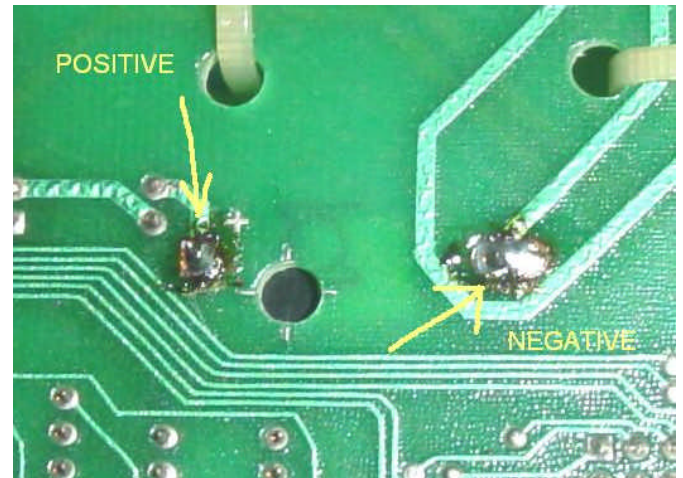
STEP 2:

Locate the battery (top of motherboard) as well as the 2 corresponding solder points (bottom of MB). Carefully de-solder the solder joints from the bottom side and remove the battery. [See Pic A for top, Pic B for bottom.](#) When you desolder these joints, the battery should literally fall right out!

Pic A



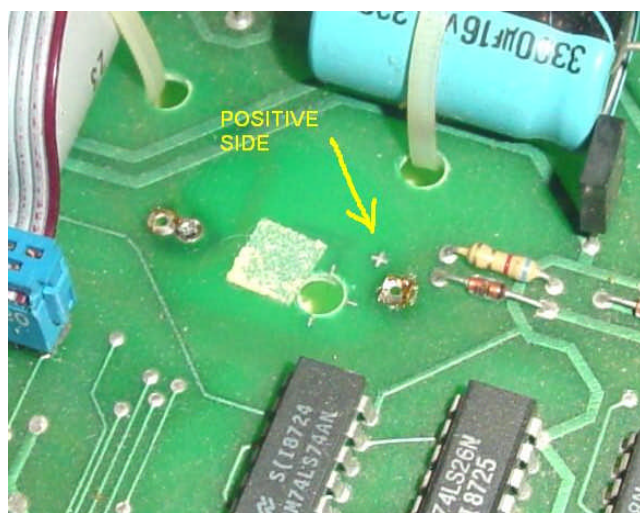
Pic B



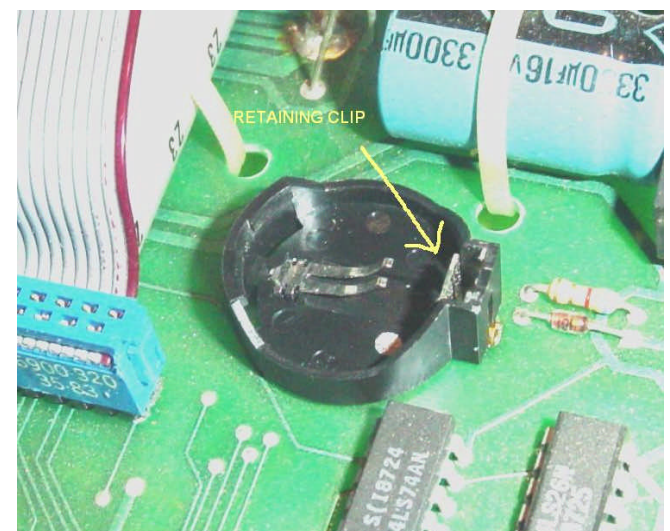
STEP 3:

Install the new receptacle paying close attention to the polarity of the circuit and the battery and receptacle. You will see a "+" marked on both sides of the board to identify the positive side. [See Pic A2 and B.](#) Also note a "+" on the battery. It is very important not to get the polarity reversed here! If you're in doubt, just install the receptacle exactly as [Pic C](#) is shown. (The part I used in the pic is a discontinued Radio Shack model, FYI) After these 2 joints are soldered, go ahead and install the bottom lid of the MP-1.

Pic A2



Pic C



STEP 4:

Now simply install the battery into the new receptacle. It will snap into place with a push of your finger. Note that the "+" side of the battery is facing up. [See Pic D](#). To remove the battery from now on requires only a finger to move the retaining clip and the battery will pop up and out of the receptacle! Install the top lid, and it's good to go!

Your MP-1 has now taken it's first step into the 21st Century!

Pic D

