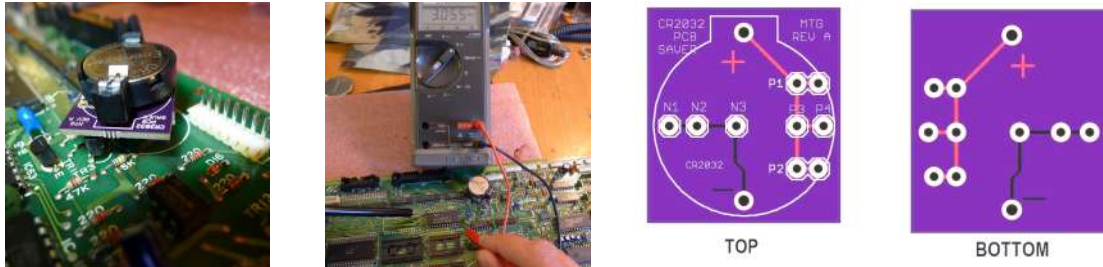


"PCB Saver" : CR2032 Battery Holder/Adapter, for Yamaha DX7 Synthesizer etc., includes 3v Coin Cell (USA only)



This item is a battery holder, coin cell and **adapter PCB that lets you mount a standard CR2032 battery holder over top of a PCB layout that uses a soldered-in battery.** It basically converts the pin layout from one of many odd 2-pin and 3-pin board styles into the common battery holder style. In the future, battery replacement will be a snap! Save your gear from leakage, damaged traces and lost sounds!

It will work with many synthesizers, drum machines or effects gear provided you have room inside the unit. The board can be mounted using wires, connector pins, component legs, connectors, etc. You can mount the board directly above where the old battery used to be or any convenient location as long as the board and battery are secure and absolutely insulated from any metal.

Please review all cautions for removing and installing lithium batteries. This installation requires soldering.

It should only be performed by a qualified tech, engineer or very experienced hobbyist that understand the risks and dangers involved with working on an explosive device. **These batteries can explode if overheated or shorted.** Even the "dead" ones. There are plenty of YouTube videos and web pages discussing this.

The installation should take less than 30 minutes for a qualified individual (perhaps more the very first time). For an unqualified individual it is recommended to take at least two years of related training. We are not responsible for any bad things that happen to you or your gear.

Here is more information regarding the lithium coin cells:

www.cr2032.co: Some Precautions To Take When Soldering CR2032 Batteries



High Voltage Safety Warning

Turn the DX7 power switch OFF and disconnect the AC power cable before opening the DX7.

INSTRUCTIONS:

1. Back up your data before you begin.
2. Unplug your device from AC power before you open the unit.
3. Plan your installation before you begin soldering. You may be soldering to both sides of the PCB, therefore make sure you don't do something that makes it impossible to solder the rest of the project. An experienced tech may be able to perform the installation without removing the synth main board (working only on the "top"). If necessary, remove the main board for better access or repairs for example.
4. Remove the old battery taking care not to short or overheat it. Do not dispose of the old battery in the trash. Do not allow the old battery to be shorted out even after removal.
5. Make sure any/all related diodes and PCB traces in your synth are OK. Check them with a meter before soldering.
6. Install the leads and battery holder according to your carefully prepared plan. ;-)
TRIM all the leads to prevent shorting to the case.
7. Check and then double check the polarity of the battery, this PCB and the main board. Refer to the diagrams in the photos, and markings on the boards and battery.
8. Test the continuity of the installation, then install the new coin cell in the holder.
9. Check the battery voltage on the holder, the diode and the non-volatile memory.
10. Make sure everything is secure. Use tie wraps, velcro, glue, etc. if you think it is necessary.
11. Close the unit.
12. Power-up it up and run any built-in diagnostics if they exist.
13. Reload your patches. Sleep well and stay calm.