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Instructions for installation of the Lithium Battery replacement for NiCd accumulators

The circuit for universal lithium battery replacement for nickel-cadmium accumulators has been designed so that it can directly replace the previously used NiCd cells (or even small lithium cells). Modification to the circuit of the synthesizer are usually not necessary, existing charging or protection circuitry should not affect their proper functioning and safety: for a binding statement to a specific instrument, please ask before installation.



Special lithium cell with additional protective
(Connection cable with plug not shown)

The protective circuit located on the circuit board to prevent by means of a special diode itself slightest charging currents that can otherwise lead to swelling or even explosion the lithium cell. Even a short-circuit behind the connectors of the circuit board is not dangerous and at worst leads to faster discharge of the battery. Only a direct short circuit of the lithium battery (the connections of the battery itself) must be prevented during handling and during installation: Thus, the self-installation for the experienced hobby electronics is easily possible!

In normal operation, the lithium battery should - depending on the synthesizer - easily keep up to 10 years. In contrast to NiCd accumulators also leakage of lithium cells is practically eliminated. Since no recharging must be (see above), the synthesizer can therefore remain switched off via an arbitrarily long time.

The assembly of the printed circuit board is generally carried out via two bolts on the metal back plate of the instrument or - more smoothly - just on the wooden base plate, because a lot of free space is needed not only 80x25mm big board. The electrical connection to the electronic synthesizer via two strands, which are usually simply soldered in place of the removed NiCd accumulators. A suitable connecting cable (length 20cm) with pre-prepared plug is included to the terminal, only the polarity (red = positive, black = negative) must be respected.

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