

FT-817 LiION Battery Pack Kit Instructions

Thank you for purchasing the FT-817 LiION battery kit!

Before use, please read the instructions carefully to use it safely and correctly.

This kit is composed of three parts: a lithium battery pack, a charging hatch (battery door) and a special AC charger.

lithium battery pack is a high-quality polymer lithium ion battery with a 3S structure composed by units and a built-in fender.

Aluminum alloy battery door is used for external chargers to charge the battery pack.

Technical Parameters of LiPO Battery Pack

- Rated Capacity, 3000mAh/33.3Wh
- Rated Voltage, 11.1V
- Output Voltage Range, 9-12.6V
- Maximum Output Current, 4A
- Charging Voltage, 12.6V
- Recommended Charging Current, 1-3A

Protective Functions include over-current protection, short-circuit protection, over-charge protection and over-discharge protection.

Service Life is around 500 charge and discharge cycles at a measured capacity $\geq 80\%$ of nominal capacity.

Dimension: 96×60×15(mm), net Weight: 180g

Installation of Lithium Battery Pack & Charging Hatch

The lithium battery pack should be put into the batt compartment of the radio so that the type label is visible. After the lead of battery pack is inserted into the BAT socket of the small PCB, and the outgoing red/black cable from the PCB is to be connected to the supply line of FT-817. Both the charging socket of battery door and the power switch go between battery and battery compartment. 4 self-adhesive pads should be stuck into the battery compartment to prevent the battery from moving around.

Installation Points. The battery must be installed in accordance with the above methods; otherwise, the length of lead could be insufficient. In addition, before the battery door is closed, the lead should be moved to one side of FT-817 battery compartment. Otherwise, the lead may stand up to the battery hatch so that closing might be impossible.

■ Everyday Use

The Power switch labeled as POWER on the battery door is used to control the switching between battery pack and TRX. Before FT-817 is switched on, please enable this switch. When charging, it is suggested to shut off this switch and the external power source from DC IN is then supplied to FT-817. During charging, the charger may interfere with short-wave receptions although batteries can be used to feed the machine simultaneously.

■ Charging of Lithium Battery Pack

The FT-817 built-in charger is designed for original NiMH battery packs. However, both charging voltage and mode is different between NiMH and LiION batteries. So, the built-in charging function is **NOT TO BE USED** for charging the lithium battery pack. It is safe to disconnect FT-817 from the external power source when lithium battery pack is adopted. In other words, power cannot be supplied from DC IN at the trailing end of radio. OR, the power switch of charging door is pushed to OFF position at the time of using the external power source.

If the AC charger in this kit is used to charge the lithium battery pack, its double-color LED lights are able to indicate working conditions: red for charging and green for charging completed or no-load. If the battery was fully discharged, an entire charge process requires about 4-5 hours. **Do not try to use a different charger than the one supplied. Otherwise it is easily possible to damage the battery!** In case that a user has an equilibrium charger, please set the charging parameter to be non-equilibrium 3S and the charging current to be 1-3A.

For everyday use of WLB-817S, it can be charged as you wish; there is no need to discharge the battery fully, and in fact a FULL discharge should be avoided. But keep in mind that even half of a full charging cycle adds up to the total cycles which will finally limit battery life one day.

■ Matters Needing Attention for Long Storage

If the battery pack is unused for more than 15 days, please charge or discharge it to a voltage range from 10.8V to 11.5V (voltage data can be read on the screen of FT-817); then, the battery should also be taken out of the battery compartment to be stored separately. Long-time storage under a state of full charge or totally discharged reduces the battery life. Also please note that high temperature and high humidity should be avoided for battery storage.