

Maintenance for long term storage (winter/ non-riding season)

This article covers how to best prepare your Hydrofoiler XE-1 for long term/ winter storage.

*Note: If you are storing your bike immediately after delivery due to it being a non-ride season, the wash down would not apply but all Battery Storage information is still valid & should be followed.*

### **1) Make sure to give the bike a really good wash down (only needed if XE-1 has been ridden).**

If you aren't going to ride for a few months, Manta5 always recommend giving your bike a good wash down (best done by removing the rear and front buoyancy and washing the bike down well with fresh water). This means that fresh clean water can run over and around the frame, buoyancy and in any gears etc cleaning out any grime/ debris that may have been caught in there over the ride season.

**Watch the video below on what to do ahead of the non-riding season to best prepare the product for when you can get back out there:**

[Watch Video Here](#)

Once cleaned and dry, we recommend storing the bike in-doors (garage/ shed etc.) out of direct sunlight. If space is tight, break the bike down into its transportation assembly (rear foil, front tiller and body of the bike separate) as this will make storage easier.

### **2) Battery Storage**

The battery life can be prolonged when being properly maintained and especially when being operated and stored at the right temperatures. With increasing age, however, the battery capacity will diminish, even when properly maintained. A significantly reduced operating period after charging indicates that the battery is worn out and must be replaced.

Before storing your Hydrofoiler for a prolonged period of time (2 weeks or more), we recommend you do the following:

1. **Perform a battery 'Store Charge'.** Before determining where & how to store your battery, you will need to ensure that your battery has gone through a 'Store Charge'. You can [find instructions on how to do a 'Store Charge' here.](#)
2. **Check your battery housing for any damage.** Take a look over the battery and ensure that there are no cracks in the housing. If you notice anything suspicious or suspect water in the battery, isolate the battery and contact us for further advice.
3. **Storage location.** If you plan to store the Hydrofoiler for weekend rides etc., make sure you keep the battery out of reach of children and pets. Take care to not leave it in direct sunlight, or if you're in colder temperatures in a place where the temperature gets below  $-5^{\circ}\text{C}$  ( $23^{\circ}\text{F}$ ). Store the batteries in the following locations:
  0. In a room with a smoke alarm.
    1. Away from combustible or easily flammable objects.
    2. Away from heat sources

4. **Storage temperature.** Store the batteries at temperatures between 10°C and 20°C (50°F and 68°F). Never store them at temperatures below –10°C (14°F) or above +60°C (140°F). To ensure that the battery lifetime is as long as possible, storage at approx. 20°C (68°F or room temperature) is recommended.
  0. *Take care that the maximum storage temperature is not exceeded.* E.g. Do not leave the battery in a vehicle in summer and store it out of direct sunlight. It is recommended to not store the battery on the bike.
5. **Battery charging for storage.** Not maintaining a healthy charge on your XE-1's battery could result in permanent damage. To avoid this damage, charge the battery to 50% (Store Charge) every two months when not riding and charging frequently. [See store charge instructions here.](#)

NOTICE: Never store a completely discharged battery as it might result in permanent damage. **During the winter or long storage periods, it is recommended that you charge the battery to 50% charge every 2 months.**

It is not recommended to have the battery pack connected permanently to the charger.

**Important** - Fully charging the battery before storage will not increase shelf life and could be more damaging to the battery, a 50% charge is optimal for prolonged battery life.

**Important** - If you are storing the Hydrofoiler XE-1 and battery straight after delivery, please perform a Store Charge as the battery is shipped at 30% charge.

If you have any concerns or questions about battery storage & safety please get in touch with Manta5 directly at [support@manta5.com](mailto:support@manta5.com).