

# Sedgemoor Model Boat Club

## **Fast Electric Mini Mono RTR Class Rules**

(amended May 2021)

This class is for Ready To Run (RTR) or Almost Ready To Run (ARTR) Mono Hull RC Fast Electric boats which has an overall length not exceeding 450mm and a retail price of no more than £150.00

Any boat that has been raced in this class between 1st January 2019 and 31st December 2020 will be permitted to continue to race, however that boat may not be replaced by another of the same design if it no longer complies to all parts of rule 2.

The boat will require a safety loop to be fitted and a number plate to enter a race – see rules 7 and 8

### **1. Definitions;**

- 1.1 ARTR is defined in these rules as a model supplied with a complete hull already built but may require the minimum of assembly of a few parts before it is ready to race. It must include all fittings, hardware, motor, propeller and shaft, rudder and rudder servo and only needs a receiver (RX), transmitter (TX) and batteries. Most are supplied with an Electronic Speed Controller (ESC) but that does not need to be included.
- 1.2 RTR is the same as ARTR but normally requires little or no assembly and may or may not also include the RX, TX, ESC and battery. These can all be replaced if required (see below).
- 1.3 Both RTR and ARTR should be considered as “off the shelf models” and must have been available to buy from a UK based commercial supplier at a price not exceeding £150.00 including VAT (excluding postage & packaging) at the time of purchase.

### **2. Hull;**

- 2.1 The hull must be of mono hull design. There are no restrictions on the construction materials used in any part of the boat.
- 2.2 The overall length including rudder, prop shaft, turn fins and any other transom mounted appendages must not exceed 450mm
- 2.3 The original hull design cannot be modified in anyway which would improve its performance, ie; installing additional turn fins, trim tabs, steps or flood chambers. These includes any reduction or increase to its length. The hull may be repaired after damage but only to restore it as close as is possible to its original design and shape by using similar materials.

### **3. Batteries;**

Any battery included with the model does not have to used, new ones may be purchased, but in all cases, they must not exceed the limits listed below as specified by the manufacture on the battery;

2S1P or 2S2P LiPo, nominal voltage 7.4v, maximum capacity 2600mAh

3S1P or 3S2P LiPo, nominal voltage 11.1v, maximum capacity 1800mAh.

### **4. Hardware;**

The hardware is defined as the propeller shaft, rudder, rudder servo, mount and linkage, trim tabs, outrigger bracket and any other fittings to the hull. These may be replaced if damaged or worn but must not be greater or less than 10% of the original size and must be of a similar design and/or shape. These parts may be replaced using a different material. ie; a plastic rudder for a metal one.

**Hereafter all references to cost are for pound sterling recommended retail prices and P&P for the postage and packaging costs.**

**5.1 Replacement of motor, ESC and prop;**

- 5.1 The original motor, motor mounting bracket, coupling and/or ESC (if included) may be replaced due to wear, damage or to upgrade to improve the boats performance.
- 5.2 The motor including the mounting bracket and coupling may be of any type and size but must not exceed £25.00 (excluding P&P).
- 5.3 The ESC may be of any type and size but must not exceed £30.00 (excluding P&P)
- 5.4 The original propeller may be modified (ie; edges reshaped, trimmed and/or balanced) it may be replaced with any type, material and size but must not exceed £20.00 (excluding P&P).

**6. Transmitter and receiver;**

Any type or make of 2.4G, 40mhz or 27mhz TX and RX may be used. If supplied with the RTR model they do not have to used, one or both can be replaced as required.

**7. Safety loop; (required for all boats)**

The boat must be fitted with a “safety loop” colour red outside the hull, which when pulled will disconnect the battery supply to the motor. The loop must be fitted outside the hull in a position which is easily accessible to disconnect and must have a diameter of at least 20mm.

**8. Race Number; (required for all boats)**

Boats must carry an upright number plate. The number figure must be black with the lines at least 8mm in width on a white background at least 75mm high x 60mm wide. The number plate itself must not exceed 100mm from its top to the boats deck line not including the boats top/lid. The number for each boat class will be the final placing the entrant achieved in that class in the previous year’s Wednesday night series.

**9. Self-righting;**

If required the number plate may be used to aid the self-righting of the boat. Foam material may be attached to the number plate to a maximum of 25mm thick, but this must not exceed 75mm high x 60mm wide under any circumstances. The number must still be clearly visible and comply to rule 8  
No other aids such as a flood chamber or additional large tops are permitted for self-righting unless they were included in the original boat design.

**10. Race course and time;**

- 10.1 All boats will start from near the bank and for the first lap only will race around the top left marker.
- 10.2 Race duration is 5 minutes around a clockwise oval or oblong shaped course.