



AMCC: Brushless Mini Ruleset 2024/25

===== Motors =====

Any 25.5 brushless Fixed Timing, sensored motor. Motors must be readily available.

Recommended

- Hobbywing G2.1 25.5 FTM
- Surpass Rocket Supersonic 25.5 FTM

===== ESC =====

Recommended

- XR10 JUST STOCK Zero Timing (HW3011200)
- XR10 JUST STOCK G3 (HW30112003)
- XR10 JUST STOCK G3s (HW30112005)
- Surpass Supersonic ESC
- Team Powers XPS Sport V4BT (TPR-XPS/Sport-V4BT-2S-EXT)

Other ESC's need to be submitted to the club for review, they must meet the following criteria:

- Can be run in Blinky mode only
- £75 max limit

===== Batteries =====

Batteries must be 7.4v or 7.6v (2 cell) commercially available (in the UK) hard cased LiPo batteries. Batteries must be charged to a maximum of 8.40v whilst connected to a charger/discharger. Batteries must be securely placed in a LiPo sack. Batteries must be charged or discharged using a LiPo charger on the LiPo settings and must not be charged in excess of the manufacturer's guidelines or over 15A, whichever is lower. When discharging this must not be in excess of the manufacturer's guidelines or over 20A, whichever is lower. No heating or cooling of cells are allowed during charging or discharging.

Your charger may not (at any point in time, whether a battery is connected/charging or not) be set with a cut off voltage higher than 4.20v per cell. Anyone found with a charger setting higher than this will be deemed to be deliberately over-charging their battery, which will not be tolerated on safety grounds. Any driver found with a charger set higher than 4.20v per cell may be excluded from the event.

Additionally, battery voltage will continue to be checked randomly. If a battery is presented at 8.41-8.43 volts, your charging equipment will be checked, and the above will apply. The driver may then discharge their battery down to a maximum of 8.40v, and re-present their car for a voltage check. If a battery is presented at 8.44 volts or higher, that battery will be immediately confiscated and disposed of, and the driver will not be allowed to run their next race. The drivers charging equipment will be checked in line with the above.

===== Additional Rules & Regulations =====

Gearing

- 32dp pinions from 15 – 20t
- 32dp Spurs from 44 – 50t

Construction rules

- To be followed as per the current Brushed Mini Rules v1.5.

If you have any amendments or suggestions to the above ruleset, please contact our circuit rep Liam Hendy via Facebook.