

## Vehicle Specifications, 1/8th Electric Buggy, Open Class.

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## **1. Purpose.**

1.1 These are draft rules created in order to foster development of this class in radio control car racing. Feedback is welcome on these rules so they can evolve and be improved.

## **2. Electric Motors.**

2.1 Electric motors are open.

2.2 Must be a commercially available hobby motor designed for use in a 1/8th Scale Electric Off-Road Vehicle.

## **3. Speed Controls.**

3.1 Speed controls are open.

3.2 Must be a commercially available hobby speed control designed for use in a 1/8th Scale Electric Off-Road Vehicle.

## **4. Batteries.**

4.1 2x 2s (7.4v) Batteries connected in series configuration from the ORRCA approved battery list.

## 5. Dimensions.

- 5.1 Overall length - 730mm maximum.
- 5.2 Overall width - 310mm maximum.
- 5.3 The car shall be measured for width by placing it on a flat base material equipped with two side rails of 150mm height. These shall be spaced 310mm apart and constructed in such a way that the car can roll freely between them. The base material must be constructed of high quality components suitably stiffened to prevent distortion. The car must roll freely between the side rails with any steerable wheels set in the straight ahead position irrespective of the compression, extension or roll angle of the suspension.
- 5.4 Wheelbase From 270mm to 330mm.
- 5.5 Overall height - measured from the ground including roll bar at full suspension compression is 250mm maximum (this measurement does not include the receiver aerial). The car shall be measured for length and height in a similarly constructed box of internal dimension 730mm x 310mm, which includes provision for checking the maximum height. The measurement of the wheelbase may be made by simple measure of axle centre distances with the suspension in any position. The Race Director should be prepared to make more exact checks in cases of doubt or protest. it is then suggested that the wheels are removed and the wheel spindles are firmly placed on Vee blocks whilst accurate measurements are made.
- 5.6 The minimum weight limit shall be 3.2kg/7.04lbs for 4WD cars, in race trim, including batteries and timing equipment.

## 6. Wheels & Tyres.

- 6.1 All tyres must be black with the exception of sidewall lettering.
- 6.2 No spikes, tubes or additional items intended to increase traction may be either glued to the outside of tyres or passed through tyres from the inside.
- 6.3 Wheel/tire overall diameter must be between 100mm and 120mm.

## 7. Wings.

- 7.1 A wing of maximum overall size 217mm length and 85mm chord may be fitted.

## **8. Appearance.**

8.1 Cars shall be a reasonable representation of the style of car used for Off-Road, Desert or Trial racing.

8.2 Openings may be cut in the shell for the antenna and a maximum of a third of the wind screen to assist in cooling the electronic components. One opening is allowed on both the left and right hand sides of the body with a maximum dimension in any direction of 20mm.

8.3 Body shells can be any ready to run or aftermarket shell designed for 1/8th Off-Road Buggies.

## **9. Driver Aids.**

9.1 The use of traction control devices, active suspension devices and any steering control aided by gyroscopes/'G'-force sensors is strictly forbidden. Sensors are only allowed for the purpose of passive data recording and not for adjusting the performance of the car whilst in motion.

It is the object of this rule to ensure that the event be a test of driver skill.

## **10. Race Format.**

10.1 It is recommended that an event be run as per the following.

3x10 Minute Qualifying Heats, Staggered Start.

3x10 Minute Finals, Grid Start (A Final)

1x10 Minute Final, Grid Start (Lower Finals)