

New Zealand National Secondary Schools MiniBike Racing Club Inc.
Specifications of Bike Classes. 2021

Electric Bikes: Prototype E50 Road Race or E50 Motard

Aim:

To encourage accurate construction and provide a predetermined overall standard so no competitor can obtain an unfair advantage, by unacceptable modifications. This will be determined by the specifications committee.

Frames:

All frames must be of mild steel construction and made in the school workshop with suitably braced headstock. No commercial frames allowed. Painted or powder coated finish. Racing numbers to be visible on the front and both sides of the Mini Bike.

Front Forks/Head stocks or Triple clamps:

Steel or alloy construction, produced by the student.

HEAD STOCK ANGLES. SHOULD BE BETWEEN 22 TO 25 DEGREES. Angles greater than 25 degrees will not be allowed to race.

Motor output drive sprocket must be covered.

Leading Dimensions:

Maximum wheel base 900mm. Measured from the centre of the front axle to the centre of the rear axle. ANY MACHINES WITH A WHEEL BASE THAT EXCEEDS THE MAXIMUM BY MORE THAN 10 MM WILL BE EXCLUDED.

Maximum seat height 550mm measured from a point at the seat front part, on top of the seat to the ground.

Maximum height to front yoke from ground = 600mm.

Maximum handlebar height to highest point from ground 650mm.

Maximum width of handlebars is 600mm.

Handle bars to be fitted above the top yoke-triple clamp.

RIDING/ SEATING POSITION.

The rider's foot pedals will be fastened to the frame.

The foot rests may be located between 150 mm behind the motor drive gear and 150mm forward of the rear axle. Foot rests in awkward positions, as decided upon by the safety testers, will be forwarded to the Specifications committee for deliberation.

Brakes/ Axles.

Standard brake caliper's, one only fitted to the front and rear wheels.

Front/rear wheels must both be braked.

Rear axle nut/s must be held in place with suitable locking devices. For example: Use of castellated nuts and split pins, use of locknuts, use of bolt style axle with drilling for locking wire or pins or R clip, use of new nyloc nuts, drilled axle and wired, R clips, drilled axle and wiring to rear fork.

Any of the above locking devices can be used to prevent movement of the rear axle during use whilst racing and to prevent movement of set chain adjustment.

Attention:

It is not our intention to stop the pupils from innovating or to dampen their enthusiasm.

Far from it, we will actively encourage that sort of approach. We wish that pupils who spend money and modify their machines do so in a spirit of honesty and fair play.

The organising committee will reserve the right to request that the first 3 placed bikes in any standard class be dismantled and inspected at the conclusion of racing and before prizes are presented. If any modifications occur, the student will be disqualified, all points will be forfeited and they will be excluded from participating in the following year's event.

The committee's decision will be final.

Handle bar ends must be plugged and footpegs with rounded ends.

All competitors need to have riding experience - practice to ensure stable riding control before orientation laps at the race circuit.

N.Z.N.S.S.M.B.R.C 2021