

2012 SECONDARY SCHOOLS GRAND PRIX SIDECAR SPECS

1. Chassis

Mild Steel construction only

Maximum Wheel base 1350mm measured between the front axle bolts to rear axle bolt

Bike to Sidecar wheel is a maximum of 1250mm, measured from the centre line of the rear wheel to the widest point of the sidecar wheel.

2. Wheels and Tyres

2.1 *Front wheels*

Maximum of 13" Alloys with a maximum tyre size of 130/60/13" with hydraulic disc brake as supplied by Newmans R/C Direct

Or 10" wheels with 410/10 Tyres

2.2 *Rear wheels*

13" Alloys with a maximum tyre size of 130/60/13" as supplied by Newmans R/C Direct

Sidecar

Mini Moto 8" wheel or slightly larger Maximum 13" with a maximum tyre size of 130/60/13"

2.3 *Front tyres*

Front tyres are free to a maximum of 13" wheel size

2.4 *Rear tyres*

Rear 13" – 130/60/13

Rear wheel rim: J13 G x Mt 3.50

3. Gear ratios

These are the only permitted gear ratios for Sidecars:

13" Rear wheels "Alloy" as supplied by Newmans R/C Direct

The permitted gear ratios are: 14:28 Gears or 15: 30 Gears.

Maximum sidecars speed 65 kph.

4. Engines

The only engine allowed is the Loncin 110cc, 4 Stroke, motor, the automatic single speed configuration as supplied by Newmans R/C Direct.

No modifications other than what is written in these rules are permitted. If it is not mentioned then it cannot be changed. Any variance found will exclude your sidecar from the competition and it will not be permitted to race.

No modifications to the engine

This is to include, primary gear train, clutch, cylinder head, piston, bore, stroke.

Engines should be in an "out of the box" condition TOTALLY STANDARD.

No tuning or blue printing allowed. All engines must have an effective silencer

Engine situated between front and rear wheels

4.1 *Ignition Systems*

CDI unit # TZR50 is the only permitted unit supplied by Newmans R/C Direct.

These are the only permitted electronic ignitions systems allowed.

4.2 *Ignition Coils*

The standard coil as supplied by Newmans R/C Direct or replacement Fox Coils or Newmans high performance variants are the only permitted Ignition coils. (Part No. [D10] GY6 125)

4.3 *Carburation*

There are only 2 types of carburettor permitted.

4.3.1 The original carburettor as supplied by Newmans R/C Direct may be retained. This carb will be of the fixed jet variety: (The make may change but NRCD will contact organisers)

4.3.2 The alternative carburettor is:

A 24mm Makuni Flat Slide

Model: VM22 - As supplied by Newmans R/C Direct.

4.4 *Manifolds*

There are 2 types of inlet manifold permitted.

4.4.1 The standard manifold with flange mounts as supplied with the engine from Newmans R/C Direct or;

4.4.2 If the alternative Makuni carburettor model VM24 is fitted then a custom made inlet manifold of 24 mm outside diameter but not exceeding 120 mm (from carb venturi to the cylinder head mount flange) may be used.

The inlet port of the engine may be machined by hand operated tools to 24 mm inside diameter to match the manifold but only to a depth of **5mm** from the outside mounting flange. No further hand machining is permitted to either inlet or exhaust ports or manifolds.

4.4.3 The exhaust manifold maximum external diameter shall be no bigger than ___mm

4.4.4 Forced induction of any type is not permitted.

4.5 *Carb Jets/ Needles*

Carb jets/needles may be changed, as long as they are representative of original type.

4.6 *Air Filters*

Air filters are free.

4.7 *Lubrication* - oil coolers are allowed.

5.0 Fuel

Only commercially available forecourt fuels are to be used 91, 95, 98, E10 octane.

Additionally No additives, Nitrous Oxide (NOS), race fuels or any other type of fuel blend is permitted.

6.0 Brakes

Brakes must be fitted to the front wheel and rear wheel of the bike. These must be disc brakes.

Brakes on the sidecar wheel are optional.

7.0 Suspension

No suspension of any kind is permitted on the front, back or side car wheel.

8.0 Weights

8.1 *Rider weights;* the combined weights of the riders shall be a minimum of 160 kg. If the combined weights are less than 160kg, fixed ballast (weight) must be added to the sidecar.

8.2 *Side Car Weights;* The minimum dry weight of the sidecar excluding riders shall be 80 kgs.

9.0 Drive chain

All drive chain must be covered

10.0 Riders Ages

The rider and passenger of all sidecars must be at least 17 years old, ideally year 13 pupils.

Evidence will be requested.

11.0 Clothing

11.1 Full Road/Road Race leathers, or Road touring suits with protection for knees, elbows, and shoulders are the only permitted clothing. Motocross apparel is not permitted.

11.2 Leather Gloves preferably with knuckle protectors must be worn by rider and swinger. Full face crash helmets with visors are preferred to MSNZ or MNZ Standards but Motocross helmets and goggles are also permitted.

National Standards



British Standard Blue label



Closed

Open

European 'E' Mark Standard



Homologation series (must be 02, 03, 04 or 09) Production number
The number within the 'E' mark circle indicates the approving country e.g.
1 = Germany
2 = France
3 = Italy
4 = Netherlands
5 = Sweden
11 = UK

AS 1698 Australian Standard



12.0 Hand grips

Adequate hand and grab rails must be fitted.

13.0 Emergency stops

An Emergency stop switch must be fitted, accessible and clearly identified on the sidecar. (Dead Man's Switch.)

14.0 Sidecars build prior to 2012

Any sidecar build prior to 2012 will need to comply too these specifications to compete in 2012.

15.0 Builders Declaration

I declare that my sidecar, fuel and riding gear complies with technical articles 1 through 4.6.

- | | |
|---------------------|--------------------------|
| | Tick |
| 1. Chassis | <input type="checkbox"/> |
| 2. Wheels and Tyres | <input type="checkbox"/> |
| 3. Gear Ratios | <input type="checkbox"/> |
| 4. Engines | <input type="checkbox"/> |

By declaring and ticking the boxes above, I accept that if my sidecar is found to be out of specification that I will not be permitted to enter the 2012 NZ Mini-Bike Grand Prix.

Name: _____ Signed: _____ Date: __/__/__