

Classification of MODIFIED SIDECAR:

Aim:

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

Please note that any machine outside of the specifications may be put into a consolation class. This class will not receive any school points nor prizes.

1 Chassis:

Mild Steel construction only.

Maximum Wheel base 1650 mm measured between the front axle bolt to rear axle bolt. 10 mm extra will be allowed for Chain adjustment. EXTRA OVER SIZE WHEELBASE SPACES WILL NOT BE ALLOWED.

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

No sharp corners on any part of chassis or body. Frame to be painted.

Transponder position within 150mm of headstock.

CHASSIS ALTERATIONS IE: HAND GRAB RAILS/ NUMBERS/ BODY PANELS AS PER STANDARD SIDECARS.

CHASSIS PRESENTED IN "NAKED FORM" FOR SAFETY CHECKS.

2 Wheels and Tyres

2.1 Front wheel: Alloys or steel rim with a maximum diameter of 14" with hydraulic disc brake as supplied by Newmans R/C Direct

2.2 Rear wheel: 14" Alloys or steel rim with a maximum diameter of 14", width free.

Sidecar: Newmans Go Kart wheel 10" wheel or larger up to Maximum 14" diameter with maximum tyre size of 130/60/14".

2.3 Front tyre: Front tyre are free to a maximum of 14" wheel size

2.4 Rear tyre: Rear tyre are free to fit 14" wheels.

2.5 Sidecar wheel must be enclosed .Up to Maximum of 14" diameter.

3.0 Engine:

ONLY LONCIN ENGINES OF THE FOLLOWING TYPES ARE ALLOWED:

110 CC 4 SPEED 4 STROKE.

125 CC 4 SPEED 4 STROKE.

140 CC 5 SPEED 4 STROKE.

150 CC 5 SPEED 4 STROKE.

ALL ENGINES MUST REMAIN STANDARD. STANDARD COMPLIANCE CHECKS WILL BE MADE.

EXHAUST NOISE LEVELS AS PREVIOUSLY.

3.1 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, clutch, cylinder head, piston, bore, stroke.

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

No tuning or blue printing allowed.

Engines must not be excessively loud or you will not race. (This is at the Clerk of the Course's discretion.)

4.0 Catchers must be attached to all breather pipes. Filler and Sump plugs must be wired or suitable alternative locking method.

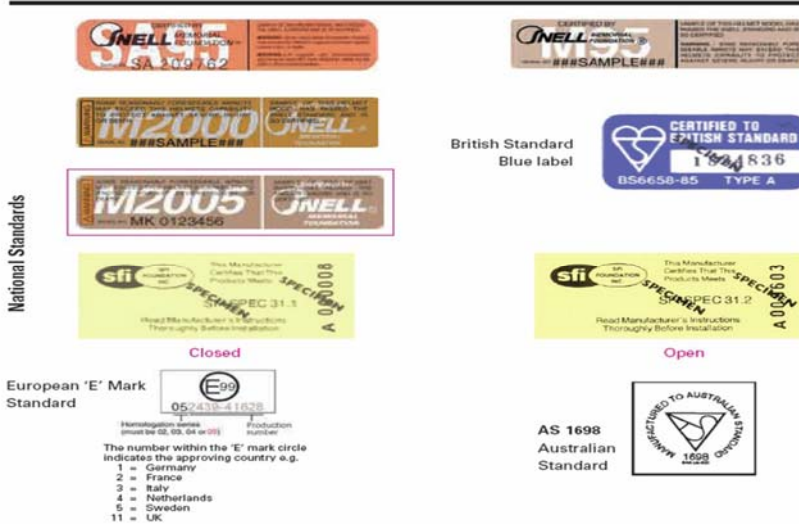
4.1 Ignition Systems:

Lanyard emergency stop switch must be used and mounted on the handle bar.

4.2 Ignition Coils:

The ignition system must incorporate an Emergency Lanyard stop switch attached to the handle bar.

- 4.3 Carburation:**
As supplied with engine. Round or Flatslide type. NO modification to the carb, jetting. This includes replacement, drilling out, or filing.
- 4.3.1 Original carburetor** as supplied by Newmann R/C Direct may be retained.
This carb will be of the fixed jet variety:
- 4.4 Manifolds:**
There are 2 types of inlet manifold permitted.
- 4.4.1 Standard manifold** with flange mounts as supplied with the engine from Newmann R/C Direct
or
- 4.4.2 If an alternative** Mikuni carburetor model is fitted then a custom made inlet manifold of 25mm inside 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 25 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. No polishing of inlet ports.
- 4.4.3 The exhaust manifold** maximum external diameter shall be no bigger than 28 mm diameter. Engine suitably silenced with outlet **not** facing the ground.
- 4.4.4 Forced induction** of any type is not permitted.
- 4.5 Carburetor 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 not permitted. **When an electric fuel pump is fitted, then an emergency lanyard type switch must be fitted on the handle bar.**
- 6.0 Brakes**
Brakes must be disc type fitted to the front wheel and rear wheel of the bike as supplied by NEWMANZ.
Brakes on the sidecar wheel are optional.
All brake caliper retaining bolts must be drilled and wired.
- 7.0 Suspension**
Front and rear suspension is allowed. **REAR AXLE RETAINING NUTS MUST BE WIRED.**
- 8.0 Weights:**
- 8.1 Side Car Weights;**
The minimum dry weight of the sidecar will be 80 kgs. Minimum all up weight will be 240 kg. i.e.: Sidecar and 2 crew.
- 9.0 Drive chain**
All drive chains must be covered to protect both the rider and the swinger.
- 10.0 Riders Ages**
The rider and passenger of all sidecars must be at least Year 12. 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. Chest (Optional for swinger) and back protectors to be worn.
- 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.



12.0 Hand grips

Adequate hand and grab rails must be fitted. Where hand grab rails are placed on the outside of the bodywork, e.g. on the side of the sidecar protection must be provided so the passenger cannot get hands or fingers trapped or crushed. Handle bar ends must be plugged.

13.0 Emergency stops

A **functioning** Emergency stop LANYARD SWITCH must be fitted and in clear sight.

14.0 Sidecars built prior to 2012

Any sidecar built prior to 2012 will need to comply with the current specifications to compete.

15.0 Builders Declaration

I declare that my sidecar, fuel and riding gear complies with technical articles 1 through 15.0

1. Chassis	
2. Wheels and Tyres	
3. Gear Ratios	
4. Engines	
5. All machine frames must be painted	
6. All number boards to be plastic	

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 NZ Mini-Moto Bike Grand Prix.

Name: _____

Signed: _____

Date: ___ / ___ / 2021

