



## **2021 FAB-Racing MiniF1 SIDECAR REGULATIONS**

**Minimum driver age 18 years and minimum passenger age 16 years.**

**1)** A passenger must be carried at all times and must always be protected from both road wheels and both primary and final drive chains.

**2) Construction:** Suspension is not permitted. The chassis must be of good quality steel tube with a maximum external diameter of 2 Inches (50.8mm) or box with a maximum dimension of 2 inches measured at 90 degrees to any edge. Metal parts of the chassis must not be able to come into contact with the road surface during normal racing. Non-metallic frame protectors and or crash bobbins should be fitted to areas of the chassis where this might occur. Any fixings must be well below the surface of the sunken into the protectors or bobbins.

### **3) Basic Dimensions:**

Maximum overall length (including bodywork) 1727mm

Maximum overall width (including bodywork) 1122mm Maximum overall height (including bodywork) 616mm

Maximum wheelbase 1144mm Maximum track 759mm

(The track is measured from the centre of the track left by the rear wheel to the centre of the track left by the sidecar wheel).

**4) Wheels:** Must be of metal construction with a maximum diameter of 6 ins.

**5) Sidecar Wheel:** The sidecar wheel must be offset to the left of the driver with the sidecar axle forward of the rear wheel axle. This wheel must not steer, steering must be operated through the front wheel only.

**6) Tyres:** Any make of tyre, slick or treaded, is permitted including Kart tyres.

**7) Brakes:** All sidecar outfits must have two independent braking systems. One system operating on the front wheel and the other on the rear wheel. At least one of these systems must be of the hydraulic type. A sidecar wheel brake is optional.

### **8) Engines:**

- Single cylinder 2-stroke derived petrol motorcycle or scooter engine with a maximum of 86cc capacity. Tuning allowed to a maximum of 26 bhp.
- Single cylinder 4-stroke road derived petrol motorcycle or scooter engine with a maximum of 200cc capacity. Tuning allowed to a maximum of 26 bhp.
- Single cylinder 2-stroke Motocross engine to a maximum capacity of 85cc. (Maximum 26 bhp). Tuning not permitted. Engine, gearbox, carburetor, ignition and induction system to remain as manufacturer's OE. The use of aftermarket reeds (petals) is permitted. Exhaust may be an after market type designed to fit your engine and must be readily available to any member of the public to buy.
- Single cylinder 4 stroke Motocross engines to a maximum capacity of 150c c (Maximum 26bhp). Tuning is not permitted. Engine, gearbox, cam shaft, carburetor, ignition to remain as manufacturers standard. The use of high compression pistons is not permitted. Exhaust may be an after market type designed to fit the engine and must be readily available to any member of the public to buy but header pipes only may be altered to suit chassis design.

**10) Engine Position:** The engine may be positioned anywhere between the front and rear wheel. The drive must be transmitted through the rear wheel only.

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### **11) Oil and Coolant Containment:**

- In the area directly below the engine, an oil containment tray must be constructed to hold, in case of an engine breakdown, at least 1.5 times of the total oil and engine coolant capacity used in the engine. The surrounding edges of the tray must be at least 50mm above the bottom of the tray. It is an absolute must that ALL 4 stroke machines use this tray.
- Oil lines containing positive pressure must, if replaced, be of a metal construction, with swaged or threaded connectors.
- Oil coolers must not be mounted on or above the body of the sidecar.
- The location of an oil tank and / or oil cooler should not be placed in a location likely to be damaged in an accident.
- Any oil breather pipes must discharge into a catch tank in an easily accessible position. Must be empty before the start of the meeting, minimum capacity 500ml.

**12) Kill Switch:** A lanyard type ignition cut-out must be fitted to kill the engine when the driver leaves the machine. The cut-out must be placed as near to the centre of the handlebars as possible and must be operated by a non-elastic cord or spiral cable of adequate length and thickness. It must have a maximum extended length of 1 metre and be securely attached to the drivers body. Any electrically operated fuel pumps must be wired in such a way as to cut out if the engine kill device is operated.

**13) Air Intakes:** Air or cooling ducts must not project outside the maximum allowable length, width or height of the outfit.

**14) Coolant:** Water only - no additives may be used.

**15) Fuel:** Only fuel that can be obtained from a roadside petrol station may be used. Race fuels not permitted.

### **16) Fairings / Bodywork**

- All sidecars are required to have a full front fairing. The sidecar wheel must be enclosed from the sidecar platform, level with the platform on the outside and right around the periphery. A cut out to check the tyre pressure is permitted. The bodywork, fairing and sidecar wheel arch (and seat unit if applicable) must be constructed of GRP (fibreglass) or similar. All exposed edges must be rounded.
- Whatever the position of the handlebars there must be a space of at least 20mm between the fairing and the ends of the handlebars and / or control levers. Ball ended handlebar control levers must be used. The wheels and tyres must not foul any bodywork. All passenger handholds must be rigid and of the closed loop type. All fairings and bodywork must be easily removable for technical inspection if required.

### **17) Number Plates**

Front numbers are compulsory and must be 120mm high. They must be of a contrasting colour to the number plate (e.g. white numbers on a black plate). The font for all numbers must be in accordance with the ACU Road Race Standing Regulations. Side numbers should also be used where possible to aid timekeepers, photographers, and film crew.

### **18) Race Clothing**

- All competitors must wear an ACU Gold stickered helmet or that meets EC22.05 Standard.
- Driver and passenger must wear an all in one leather race suit. Two piece leather suits can be permitted if they are fully zip together. Back protectors must be worn.
- Race boots must be leather and have good ankle protection. There must be no gap between the top of the boots and the bottom of race suit when in a riding position. Trainers / trainer boots will NOT be allowed.

**IT IS VERY IMPORTANT THAT YOU READ AND TAKE NOTE OF THE GENERAL RULES AND REGULATIONS THAT OPERATE IN CONJUNCTION WITH THESE CLASS REGULATIONS**