

# JUNIOR MINI SUPER TWOS

## 2022 Specifications, Rules & Regulations



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The specifications have been updated to clarify what can or cannot be done within the formula for 2021.

This formula is designed to encourage new drivers to our circuits, to enjoy the atmosphere & thrills of driving on an oval, without the substantial financial ongoing investment. It also gives the opportunity to race to those drivers who cannot give the commitment necessary to compete at the very high level of all our other Formulas.

Mini Super Twos reserve the right to amend the rules at any given time without notice. They are intended for the sole recipient and not for distribution. Drivers and officials will be notified of any changes immediately.

Rules are there to be followed. If you are not happy with the rules, **PLEASE DO NOT SIGN A LICENSE FORM.**

The object is to complete the specified number of laps in the shortest time. No hitting of parked cars, cutting the corners and no deliberate drivers area contact. You may push a car from behind to move it offline but spinning a car or any deliberate fencing are strictly not permitted. Attacking a car from, or on the infield area is not permitted. Actions deemed to be deliberate or dangerous will carry several different types of penalties, this may be being loaded up, a three month ban, banned for a year or even a life time ban.

Racing is in an anti-clockwise direction on a clearly defined circuit with a separate infield. Any wheels passing over the demarcation lines or entering on to the grassed infield areas will mean that the driver will be penalised.

## VIOLATIONS

1. When referring to the engine, final drive, mechanical or construction Rules & Regulations, the principle will always be: Unless permission is specifically granted to make modifications (or any variation) nothing may be done to alter or change the Standard Parts in any way.
2. It is the responsibility of the Driver to prove to the Promotion that the part is legal, by way of written proof of where the part originated. This must be undertaken within 7 days, otherwise the item in question will be deemed illegal, resulting in immediate suspension from racing & referral for disciplinary action. Unless the rules say you can do it, you cannot do it!
3. Presentation of a Vehicle for Scrutineering is a declaration by the entrant that the vehicle is eligible for that event.
4. Car engines & fuel will be checked on a random basis. Violations or refusal to allow an engine check will result in an immediate suspension of all racing facilities.
5. Should a discrepancy occur between the Specifications then the Promotion will exercise its judgement, and that decision will be final.
6. Clarification on any one item may be sought from the Promoter.
7. Each driver is permitted one car per meeting & each car is permitted one driver per meeting.

## THE CAR

Every Mini Super Twos chassis will be manufactured by approved Mini Super Twos suppliers. Chassis are designed to be as close to identical as possible. Any changes made to Mini Super Twos will be made by Mini Super Twos suppliers. Drivers and officials will be notified immediately.

Drivers are permitted to mend their own cars. However, repairs **MUST** be to the standards of how the Mini Super Two car was as it left the workshop. Mini Super Twos scrutineers will check the work and repairs thoroughly before giving permission to race. This is to check the legality and standard of the work carried out.

Drivers may assemble their own cars. However, all parts **MUST** be supplied and manufactured by Mini Super Twos. When the self-built car is completed, it **MUST** be presented to a Mini Super Twos scrutineer for approval before being allowed to race.

# SPECIFIC MINI SUPER TWOS COMPONENTS

Certain parts of Mini Super Twos cars are ONLY to be produced by or supplied by Mini Super Twos. These items are: roof wings, chassis, fuel tank, engines, exhausts, sprockets, wishbones, front stub axles, uprights, front hubs, rear hubs, rear drive sprockets, brake callipers, hub bearings, steering racks, wheels, block bearings and bottom TCA's. In summary any part pertaining to the car is on the Mini Super Twos shelf.

## GEARING

Sprockets must remain standard and supplied by Mini Super Twos, Drive chain may be updated but must remain the standard size.

## ENGINE

The Loncin 420 electric start engines and Launtop 420 electric start engines are the ONLY engines permitted. These will be supplied by Mini Super Twos. ALL engines MUST remain as it leaves the Mini Super Twos workshop. All engines have been tested and sealed by Mini Super Twos. All engines have seals. Engines will be checked for seals during scrutineering. If seals appear to have been tampered a Mini Super Twos scrutineer will ask the driver to remove the engine for further checks. Drivers will not be permitted to race until Mini Super Twos scrutineers are happy the driver is not cheating. If the driver is found to be cheating, further consequences will be issued. Air filters are free but must be intact and not modified and must remain in the same location as the original and fit in the same manner. Air filters are free but must be intact and not modified and must remain in the same location as the original and fit in the same manner.

Two air duct pipes may be used, one to aid clutch cooling and one to direct air to the air filter. These pipes must be no more than 75mm in diameter and must pass under the chassis and not through any bodywork. Trumpets and finishers are permitted but are not to exceed 95mm diameter.

## SUSPENSION

All suspension MUST remain as standard. No modifications are permitted apart from front end adjustments. All items must be purchased from Mini Super Twos and no self-made parts are permitted. This will be checked by Mini Super Twos scrutineers. Jacking or twisting of the chassis is NOT permitted.

## FRONT END

You are free to make adjustments to camber, caster and steering geometry, using only the adjusters provided. Positive and negative camber will be permitted. Emergency repairs during a meeting will be at the Mini Super Twos scrutineers' discretion. However, it must be corrected before the next meeting. Again, repairs will be checked by Mini Super Twos scrutineers.

## REAR AXLE

The rear axle MUST remain central to the car. And equal each side with the aluminium rear hubs in place. No movement of the axle is permitted. The axle will be supplied by Mini Super Twos. This axle has been specifically modified for the Mini Super Twos cars. The block mountings for the rear axle MUST remain in the same position as it leaves the Mini Super Twos workshop. The aluminium hubs MUST remain in the same position. No spacers permitted to change the inside or outside wheelbase. No offset changes are permitted.

## STEERING

The steering rack MUST be supplied by Mini Super Twos. No quick racks are permitted. Rose joints must be 1/2 x 1/2 UNF, supplied by Mini Super Twos or by the owner. Steering rack gaiters are a stock item. Everything to do with the steering rack and steering column are stock items. Pop off/quick release steering wheels are permitted, supplied by Mini Super Twos or other approved supplier. The steering mounting and steering wheel position can be adjusted to suit the driver.

## EXHAUST

All exhausts MUST be a Mini Super Twos system. No other types are permitted. All exhausts will be checked for any modifications.

## BRAKES

The braking system shall remain as standard, as it leaves the Mini Super Twos workshop. No alterations are permitted. The calliper disc and pads are all supplied by Mini Super Twos. Brakes must be in full working order. All master cylinders are to remain the same. However, these can be purchased elsewhere as long as they are near to identical.

## WHEELS

Only the wheels supplied by Mini Super Twos are permitted.

Two types of wheels are available, the early trailer type and the later weller type. Either type can be used but only in complete sets, no mixing.

## TYRES

Only the tyres supplied by Mini Super Twos are permitted. No race tyres are permitted. These are 145/80R10. All tyres MUST be standard and will be supplied by Mini Super Twos. No modifications are permitted. Rasping and buffing of the tyres between meetings is permitted but this is NOT to be done in the pits at a race meeting. Tyre softening, or any other chemical treatment is forbidden, and durometer checks will be carried out at random. Tyre testing is something we try to do throughout the season. We are pleased with the tyres we are currently running. Although, we have run 2 other types and we find there is no real comparison.

## BODYWORK

Mini Super Twos bodywork must be maintained in a well-presented condition. All body panels must be fastened by pop rivets. Screws may be used to re-fix panels during race meetings for safety purposes. All panels are supplied by Mini Super Twos. Self-made panels may be permitted as long as they maintain the same shape and thickness as those produced and used by Mini Super Twos.

Rear side panels can have one hole each side to aid engine cooling, maximum size 55mm. These holes can have a small scoop added, occupying no more than the rear panel (removable engine cover) and engine bay side panels may have holes/vents to help engine cooling. NO modifications are permitted to the Top cover or the fire wall behind the driver's seat. Any panels that are modified to the extent that it significantly weakens or reduces its structural integrity may be deemed as unsuitable and require the driver to replace them, the scrutineers or MS2 official's decision is final.

Fans may be fitted to the rear side panels and inside the engine bay to help with engine cooling, Maximum aperture size for fans in bodywork is 140mm.

# MIRRORS

A rear-view mirror or mirrors must be fitted, to give an adequate view both sides.

# NERF RAILS

Nerf rails MUST remain as standard. They must be welded to the chassis. The nerf rails are supplied by Mini Super Twos as a kit. Mini Super Twos offer a re-fitting service on request.

Mini super twos now offer bolt on nerf rails which are also permitted for use, all bolts must be present and secure.

# F2 DUAL ELEMENT AND SUPERSTOX ROOF WING

Mini Super Twos come equipped with either a Single Element F2 wing, Dual Element F2 wing or a Superstox roof wing as standard. The wing MUST be supplied by Mini Super Twos.

# ROOF GRADE

For cars with a superstox style rear wing your roof grade must be displayed by having 90% of your roof in your grade colour. For cars with an F2 style rear wing you must have a 12 inch square of solid colour relating to your roof grade. Any cars that do not conform to this will be made to start at the back of the grid.

# FUEL AND FUEL SYSTEM

Only Unleaded or Super Unleaded garage forecourt fuel is permitted with a maximum of 99 RON. The use of additives or octane boosters of any description is forbidden. Random fuel tests may be carried out throughout the season. Fuel lines from the tank to the carburettor MUST have a jubilee clip fastening. The fuel line from the tank to the carburettor MUST be a stainless steel, braided hose or a rubber hose with a nylon centre. This is supplied by Mini Super Twos. It may be supplied by an outside source as long as it complies with the Mini Super Twos requirements. It is not permitted to use any type of fuel pump, gravity feed only. A breather pipe must be fitted to the fuel tank with a vertical loop which should limit fuel exiting via the breather but still allow the tank to expel air. The main jet in the carburettor is free, you may change the jet for a different size or drill the original jet. No other changes are permitted, and the emulsion tube must remain standard.

# FIRE EXTINGUISHERS

*Please visit the ORCi website [www.orci.co.uk](http://www.orci.co.uk) for current safety equipment regulations.*

# BUMPERS / WHEEL GUARDS

Mini Super Twos come equipped with front and rear bumpers and two (2) wheel guards. They MUST be maintained and in a good condition during race meetings. No sharp edges are permitted. They must be fixed securely with a nut and bolt. Wheel guards are to be nylon or spring and in a good condition.

Front bumpers must have secondary safety chains each side, chains to be 6mm link size and secure bumper to chassis.

## BATTERY AND FUEL TANK

The only permitted fuel tank is the tank that is supplied by Mini Super Twos. They must remain in the factory fitted position, located in the rear of every Mini Super Two car. The filler access hole must be covered with a fireproof material and secured when racing.

The battery must be located on the near side of the Mini Super Two and it MUST be fully enclosed. ALL battery boxes are supplied by Mini Super Twos and MUST be constructed of steel and securely fastened. Enclosed batteries MUST have a piece of non-conductive material on top of the battery to prevent it from shortening out.

## SAFETY

All Mini Super Twos are constructed using premier quality equipment. Any replacements that are fitted by the owner MUST conform to the Mini Super Twos specifications. Once a Mini Super Two has been purchased it is then the owner's responsibility to make sure the car is maintained to the highest standards and is safe to race.

## SAFETY HARNESS

*Please visit the ORCi website [www.orci.co.uk](http://www.orci.co.uk) for current safety equipment regulations.*

## CRASH HELMET

*Please visit the ORCi website [www.orci.co.uk](http://www.orci.co.uk) for current safety equipment regulations.*

## RACING OVERALLS

*Please visit the ORCi website [www.orci.co.uk](http://www.orci.co.uk) for current safety equipment regulations.*

## GLOVES

*Please visit the ORCi website [www.orci.co.uk](http://www.orci.co.uk) for current safety equipment regulations.*

## BALACLAVAS

*Please visit the ORCi website [www.orci.co.uk](http://www.orci.co.uk) for current safety equipment regulations.*

## NECK BRACE

*Please visit the ORCi website [www.orci.co.uk](http://www.orci.co.uk) for current safety equipment regulations.*

A neck brace or other approved head and neck restraint are compulsory for junior drivers under the ORCI for safety reasons

## TRACK RULES

You MUST conform to the track rules of the promotion(s) Mini Super Twos race under.

## DRIVER REQUIREMENTS

The minimum age for boys and girls is 11 years old and all drivers will end on their 16th birthday. However, a driver aged from 11-12 may only race under the watchful eye of their promotion, with restricted bookings, until such time as the driver is confident enough to compete fully. A copy of the child's birth certificate must accompany their application for a licence.

## FLAGS

This is to remind drivers of the flag signals as used by the Starting Marshall and Safety Marshalls on track.

- Waved green flag – go, the race has started.
- Waved red flag – stop racing slow down & stop.
- Chequered flag – race winner has crossed the line, continue to race until the Red Flag is shown.
- Held yellow flag – beware, you are approaching a hazard on the track, continue to race.
- Waved yellow flag – slow down to 15mph, hold your position, and do not overtake any other cars.
- Waved blue flag – shown to a driver who must hold his racing line. Driver must either hold a line on the inner part of the track or the outer part of the track, not weave between both.
- Blue & white flag – give up your track position, you have not taken notice of the Blue flags.
- White flag with a Blue spot – oil on the track.
- Waved black flag - you are disqualified, pull off the track immediately.
- Black cross on a white board – you have committed an infringement and may be penalised in the results.
- White flag with a red cross – technical Disqualification, leave the track immediately.

## TRACK LIMITATIONS

The following is not permitted:

- 'Following in'
- Turning right into the catch barrier
- Deliberate spinning
- Drivers may push to pass other cars

Novice drivers will be issued with a black and white cross which is to be placed behind the seat. The black and white cross signifies NO CONTACT and is to establish confidence in new or novice drivers. A yellow and black cross will be issued to drivers preferring LIMITED CONTACT, again to establish driver and racing confidence.

Mini super twos reserve the right to test new parts or designs during race meetings, This will be carried out in a controlled manner and not be to the detriment of other drivers.

***REVISED RULES FOR 2022 HIGHLIGHTED IN BOLD/ITALIC RED PRINT***  
**ITEMS MARKED ~~STRIKETHROUGH~~ ARE NO LONGER ALLOWED**

**2022 Mini Super Twos Technical Specifications, Issue 1, Dated 17<sup>th</sup> January 2022.**