

# Warton Stock Car Club

## Senior Mini Rules

### *2022 Rule Changes Indicated in RED Italics*

- 1) This class will be known as senior minis. It is intended to be a 'budget formula' and will race in the clockwise direction. Contact rules, no deliberate walling and no turning in to overtaking vehicles. Pushing in the direction of racing is allowed.  
Minimum weight of 712kg and maximum width of the frame will be *64"*. Driver to sit on the right hand side or centre of the car. Aerofoils are optional.
- 2) The driver shall be 16 years old or over.
- 3) a) The car shall be a B.M.C type Mini. No wood framed Travellers will be allowed. Vans, pick-ups and all steel travellers may be used.  
  
b) Fibreglass body parts are allowed. Each individual shell must have its own 100% fire retardant certificate with its own unique ID number and has been fire checked.  
  
c) The body must retain its original appearance.
- 4) a) The interior of the car must be stripped of all flammable materials and glass, with the exception of an interior mirror retained inside the frame.  
b) All external lights and fittings, including chrome strips, handles and wheel embellishers must be removed.
- 5) **Sub Frames/Suspension**
  - a) Engine should sit in original position of manufacture in a standard front sub frame and be front wheel drive only.
  - b) The rear sub frame can be standard or may be fabricated.
  - c) Shocks – coil overs allowed either front or rear in place of standard suspension.
  - d) Steering racks are free, any type of rack can be used*
- 6) **Hubs and Wheels**
  - a) Brake drums or discs must be effective on at least two wheels.
  - b) 10" – 13" any wheel, any tyre but within above frame width restriction.
  - c) Brakes; Any Drum & Calliper car be used, either standard / aftermarket or from other vehicle*
  - d) Front hubs are to be pre 2000 mini or metro, no fabricated hubs or uprights, ball joints are free.*
- 7) **Engine**
  - a) Engine to be standard stroke (81.33) *"A or A+" series 1275cc* (max oversize of 1293cc, max bore should be 71.2mm) Fixings can be uprated. Centre main bearing strap allowed.
  - b) 12G940 head and valves, no rim flow or competition valves, no machining to valves. Valves of standard length and standard head size of 35.6mm or 1.406" inlet and 29.38mm or 1.1565" exhaust. Valve seat angles are free but there must be no machining or fettling past the valve seat or the valve head. Spring tops and retainers must be a ferrous material (i.e. no titanium). The head may be skimmed to increase compression.
  - c) The block may be decked but pistons must be level with the block face.
  - d) No porting or polishing to the head.
  - e) Spot machining to the crank allowed by drilling only to refine balance. No wedging/cross or back drilling, knife edging or polishing.
  - f) Ferrous metal flywheel and back plate – lightening and balancing allowed with inspection hole in bell housing cover.
  - g) Timing chains, not belts, Vernier or offset woodruff keys allowed.
  - h) The distributor in engine bay is open to modifications with no map able ignition

- i) Carburettor must be 1.75" SU and remain standard inside with two or four bolt fixing. Manifolds are free. Jets, springs and needles in carb are interchangeable.
- j) Remote oil filters and oil coolers are allowed.
- k) Any rocker gear that fits without modification and standard push rods (NO carbon fibre push rods allowed).
- l) Standard fuel to be used.
- m) Any radiator is permitted providing it is within the engine bay.
- n) The exhaust must reach the rear axle and have a working silencer fitted.
- o) No turbos, super chargers or nitrous permitted.

#### 8) Gear Box

Standard gear box, central oil pick up optional. Final drive ratios are interchangeable. No straight cut gears except first and reverse. No in drop gears, all gears to remain in gear box. Standard operational differentials, no LSDs, locked diff etc. Cross pin diff allowed.

#### 9) Chassis Construction

a) A full roll cage must be fitted 1.5" minimum 2" maximum square or round. Box section or tube must be 3mm thick on all cars. Not less than four posts with a screen hoop and a hoop over the drivers head. These hoops must be joined at the roof. 6" below top door and sil level's, cross braces minimum of 1" at the dashboard height and 6" below the top door height behind the driver's seat will be used.

b) Seat should be supported with roll cage and also have two bars over the driver with minimum 3mm steel plate.

c) A vertical cow catcher type bumper will be fixed to the front and rear of the car using *square & rectangular box Minimum of 25x50mm to a maximum of 50x50*. Round tube minimum 1.5" to a maximum of 2". They will be attached to the internal and external side rails.

d) The external side rails shall be fixed just above the top of the wheel arches front and rear, *no manufactured or formed curved arches are allowed on the external side rail over the top side of the wheels. Wheel protectors can be put onto the side of the external rail but cannot exceed the maximum width of 64" the wheel protector must be fitted neatly and have no catch points.*

e) The internal bars (fitted below the top door height) should be joined to the external bars for extra side strength. They will be attached to the front and rear bumpers at the top of the bumper, so forming triangles at either side of the car. The rail at sil height to be attached to bumpers at the bottom of the bumpers.

f) The bumpers should be 12" minimum and 14" maximum measured in the centre. Cars should have a towing eye for tractor to hook on to.

*10) Minimum Ride Height 2" – Measured at the Sump guard, Front lowest point of the rear sub frame / chassis (if the rear suspension has been fabricated) to be checked on a level concrete pad (pre-race) or on track (post-race) be using a piece of 2"x1" box section on its edge. This must pass under the cars lowest points front & rear, if it doesn't clear the car it is too low.*

- 11) Welding must be of an acceptable standard. It should be carried out by an experienced welder.
- 12) Doors and boot must be welded securely.
- 13) Driver's door must not be cut down.
- 14) The driver's seat may remain.
- 15) A full headrest must be securely fitted to the roll cage at the correct height. It must be no more than 1" away from the driver's helmet when strapped in.
- 16) A full 3" harness (minimum of 4 point) shall be fitted unless a defender or Hans device is used.
- 17) The battery must be enclosed in a wood, metal or plastic box. The terminals must be suitably protected and a spill proof cover should be fitted. The box will be securely fitted to the floor.

- 18) The main lead to the battery must be separated from the fuel line. A battery cut off switch shall be fitted within easy reach of the driver and signed for marshals.
- 19) The original petrol tank must be replaced by a tank of not more than 3 gallon capacity.
- 20) A fuel on/off tap must be fitted within easy reach of the driver when strapped in. The fuel line will be a metal type or braided hose. Plastic or rubber joints not more than 4" will be allowed. All joints must be leak proof. Screwed joints or with jubilee clips.
- 21) *A one-way safety valve MUST be fitted in the fuel tank breather pipe, this must be in working order, modification or tampering with the one-way safety device is not permitted.*
- 22) A fire extinguisher of an approved type shall be fitted within easy reach of the driver.
- 23) A hold in the bonnet must be cut adjacent to the carburettor in case of fire.
- 24) A speedo hole must be covered to form a fire wall between the engine compartment and interior of cab.
- 25) Sharp edges and/or protrusions must be removed.
- 26) A steel mesh must be fitted to the full screen opening. The size of the mesh must not exceed 25mm. It is permissible to use chicken wire on the top of a heavier gauge of wire mesh.
- 27) *Fin plates must be fitted above the roof line and bolted securely to the car. Fin plate numbers must be clear and legible, black on white or white on black is highly recommended. If the lap scorers can not read them you won't be scored during a race. Small spoilers may be used.*
- 28) Only the registered driver may drive under his/her registered number.

**ANY CONTRAVENTION OF THE ABOVE RULES CAN RESULT IN THE DRIVER RECEIVING DISCIPLINARY ACTION AND/OR SUSPENSION.**

**THE ABOVE RULES WILL BE AMENDED, OMITTED OR ADDED TO AT THE DISCRETION OF THE CLUB COMMITTEE. THE LICENCES ISSUED BY THE CLUB ARE FOR WARTON ONLY, THEY ARE NOT TRANSFERABLE.**

**IF THE RULES DO NOT SPECIFY THAT YOU CAN, THEN TAKE IT THAT YOU CAN'T**

**Updated 13th March 2022**

**These rules are valid with immediate effect.**