



Rockingham

SCALEXTRIC Club

FRONT ENGINE CAR RACING CHAMPIONSHIP

•**The following cars will be eligible to race: -**

Any commercially available **Ready-to-Run** Front Engine Sports, GT or Saloon car that complies with the following:

- a. Has the motor must be mounted at the front of the car.
- b. Has the rear axle must be driven by a prop shaft connected to the motor by a flexible universal joint.
- c. Has an injection moulded plastic body.
- d. Has an injection moulded plastic chassis.
- e. Is intended for use on Scalextric type track.
- f. Is, or has been, available through normal retail outlets.

If you think any car should be excluded from this class please let us know.

Once a class has been selected for a mini series no alterations can be made to the rules for that class until after the conclusion of the mini series.

TECHNICAL REGULATIONS

1. Motors & Motor Mounts

- a. All eligible cars may use the motor supplied as original equipment by the manufacturer.
 - Cars that have been manufactured with different motors may be up graded to the best performing motor, but must use the correct adaptors or mount for that motor.
- b. Any eligible car may be powered by a commercially available Mabuchi 'S' can (FC130) motor with a manufacturer's rating not exceeding 20,000rpm at 12volts.
 - If a motor is rated at a higher voltage a simple straight line graph will be used to determine the rpm at 12volts.
 - E.g. a motor rated at 23,000rpm @ 14volts.
 $23,000/14 = 1643 \times 12 = 19,716\text{rpm @ } 12\text{volts.}$
 - Manufacturer's figures will be accepted as correct.
- c. Shortening the armature shaft is the only modification permitted to any motor.
- d. Any commercially available adaptors may be used when fitting a Mabuchi 'S' can (FC130) motor to a car designed for a different motor.
- e. Motor mounts and adaptors must be fixed rigidly to the chassis.
- f. Motors and/or motor mounts may be glued into place if desired.
- g. A separate prop' shaft must be retained and be joined to the motor by a flexible coupling.
- h. Rear-wheel drive only is permitted.

2. Gears

- a. All eligible cars may use the gears supplied as original equipment by the manufacturer.
- b. Any brand of 9 tooth pinion and 28 tooth crown gear may be substituted if desired.
- c. Pinions may be glued to motor shafts and crown gears may be glued to axles.

3. Wheels

- a. Any wheels fitted as original equipment by the manufacturer to any eligible car may be used, and may be fitted to any other eligible car, provided they are of the correct size for the car they are fitted to.
- b. Any other brand of plastic or machined aluminium wheels may be substituted if desired provided they are of the correct size for the car they are fitted to.
 - Formula 1 size rear wheels are not permitted.
- c. Wheels may be glued to axles if desired.

4. Tyres

- a. Any brand of solid rubber tyre may be used subject to the following restrictions;
 - Front tyres: Minimum diameter 17mm, minimum width 8mm.
 - Rear tyres: Minimum diameter 19mm, maximum width 12mm.
 - Formula 1 size rear tyres are not permitted.
- b. Tyre treads must not protrude outside the car bodywork when viewed from above.
- c. Front axles must have any side-to-side movement restricted to comply with Rule 4b.
- d. Tyres may be glued onto the wheels, and may be sanded true.
- e. Front tyres may be coated with nail varnish, super glue or similar.
- f. Any tyre dressing/cleaner used must not leave a residue on the tyres or track.
- g. Sponge tyres and tyre dressings (goop) of any kind are not permitted.

h. Tyres made from, or containing, Silicone must not be used.

5. Rear Axles

- a. Rear axles are free choice but must not extend beyond the outer face of any wheel.
See also Rule 4b.
- b. Any type of plain rear axle bearings, and prop' shaft bearing if used, may be fitted and may be glued into place.

6. Front Axles

- a. Front axles are free choice but must not extend beyond the outer face of any wheel.
See also Rules 4b and 4c.
- b. Any type of plain front axle bearings may be fitted and may be glued into place.

7. Slot Guide

- a. All cars must have one slot guide only.
- b. All cars must be fitted with a standard depth slot guide.*
- c. Any car may have an easy-fit guide replaced with a conventional wired guide with the minimum necessary modification made to the chassis.
- d. Guide to motor wires and pick up braids are free choice.

8. Lights etc.

- a. Any car fitted with working lights may have the light bulbs, LED's, wiring, PC board, and any other internal fittings removed, but must retain all external lenses.

9. Ballast

- a. Ballast weight may be added to any car as desired, provided that it is placed within the confines of the body and chassis and is firmly glued in place.
- b. Traction magnets may be retained or removed as desired.

10. Body and Chassis

- a. Bodies and chassis must be used complete and unmodified except as detailed below.
- b. Bodies may be repainted provided that doing so does not distort the body.
- c. White body kits must be fully painted.
- d. All cars must have a realistic colour scheme and carry at least three racing numbers.
- e. The original interior must be retained complete, include a driver – minimum of head, shoulders, arms and steering wheel in 3D - and may be glued in place.
- f. Vacuum formed or other light weight interiors are not permitted.
- g. No part of the chassis or running gear may be visible through the cockpit/cabin area.
- h. Windscreen and window mouldings must be retained, and be complete and original.
- i. Wheel arches may not be enlarged in any way but moulding flash may be cleaned off.
- j. Rear view mirrors may be omitted but all other detail parts must remain fitted.
- k. All cars must have their rear wings securely fitted at the start of racing.
- l. The chassis must be the chassis originally intended for the body being used.
- m. Chassis ride height may not be lowered in any way.
- n. Body to chassis mountings may not be lowered in any way.

- o. Minor scraping or sanding of the body sides and/or chassis edges is permitted to allow the body to move freely on the chassis.
 - This includes removal of any internal pegs etc. that rest on the motor, axle bearings or chassis sides.
 - Removal of other parts of the body or chassis for this purpose is not permitted.
- p. Body fixing screws are free choice and may be left loose.
- q. Adhesive tape or 'blue tack' must be placed over the body fixing screw holes to prevent screws from falling out.

11. Ground Clearance

- a. There is no minimum ground clearance rule but at no time may the body, chassis, motor or gears touch the track surface in normal use.
- b. When the car, race ready, is placed on a slotted, flat surface, all 4 tyres must touch the surface and all 4 wheels must rotate when it is pushed forward.**

12. Finally...

If the rules do not expressly say that you can do something then you cannot do it.

***Definition of a 'standard depth slot guide'**

- a. Any slot guide supplied as original equipment by the manufacturer with any ready-to-run slot car eligible for the class.
- b. Any aftermarket slot guide intended for use in any ready-to-run slot car which can be fitted without modification to the guide or guide mount and having a blade depth, excluding braids, of no more than 7mm.

Index to amendments

<u>Issue No</u>	<u>Date</u>	<u>Amendment</u>
1	03/10/02	First draft.
1a	27/11/03	Add Scalextric TVR Tuscan and Revell Cobra
1b	04/08/05	List manufacturers not individual cars. Add NSR Tyres.
1c	17/02/07	Clarify the guide rule.
1d	20/03/07	Allow Slot-It 28t crown and 8 or 9t pinion.
2	23/05/09	Allow Scaleauto SC-0008 20,000rpm Silver can motor.
2a	25/12/10	Add Scaleauto SC-0020 20,000rpm Blue can motor.
2b	05/11/12	Add Scaleauto SC-0008B 20,000rpm Silver can motor.
4	01/08/13	Simplify and clarify using standard wording for each section.