



Rockingham

SCALEXTRIC Club

NASCAR RACING CHAMPIONSHIP

- The following cars will be eligible to race;

Any post 1990 NASCAR produced by the following manufactures

Scalextric

Note: Only the standard versions of the Scalextric NASCARs will be eligible.
The Pro versions are not permitted.
Only the clear window versions of Scalextric NASCARs will be eligible.

SCX

Note: Only the standard versions of the SCX NASCARs will be eligible.
The pro car versions are not permitted.

Carrera

If you think any car should be added to or removed from this list 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 fitted with any 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 12 volts.
 - 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. Motors must be mounted in the same orientation supplied as standard by the manufacturer, i.e. sidewinders remain sidewinders, inlines remain inlines etc.
- e. Motors must be fitted using the original motor mount, which may be modified if necessary to accept a Mabuchi 'S' can motor. A single piece of plastic or wire may be used to support the 'free end' of a Mabuchi 'S' can motor if desired.
- f. Motors and/or motor mounts may be glued into place if desired.
- g. Rear-wheel drive only is permitted.

2. **Gears**

- a. All eligible cars may use the gears supplied as original equipment by the manufacturer.
- b. **Sidewinder Scalextric cars** may be fitted with any suitable 6.5mm diameter 11 tooth pinion and a Slot.It 19mm diameter 34 or 36 tooth spur gear if desired.
- c. **Inline Scalextric, SCX and Carrera cars** may be fitted with any suitable 9 tooth pinion and any 27 or 28 tooth inline crown gear if desired.
- d. Pinions may be glued to motor shafts and crown/spur 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.
- b. Wheels may be replaced with following after market wheels if desired;
Slot.It SIPA17als or SIPA24als 15x8 wheels with suitable NASCAR inserts.
CB Design 15x8 NASCAR wheels.
- c. Air wheels are not permitted.
- d. Wheels may be glued to axles if desired.

4. **Tyres**

- a. Only the following tyres may be used;
 - Front tyres Scalextric, SCX or Carrera standard NASCAR tyres.
 - Rear tyres Scalextric, SCX or Carrera standard NASCAR tyres.
NSR 5236 Supergrip 21x10 Classic tyres for the Ford MkIV.
NSR 5237 Ultragrip 21x10 Classic tyres for the Ford MkIV.
- b. Rear tyres must have a minimum diameter of 20mm at all times.
- c. Tyres must not protrude outside the bodywork when viewed from above.

- d. Front axles must have any side-to-side movement restricted to comply with Rule 4c.
- e. Tyres may be glued onto the wheels, and may be sanded true.
- f. Front tyres may be coated with nail varnish, super glue or similar.
- g. Any tyre cleaner used must not leave a residue on the tyres or track.
- h. Sponge tyres and tyre dressings (goop) of any kind are not permitted.
- i. **Silicone tyres 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 4c.
- b. Any type of plain rear axle bearings 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 4c and 4d.
- 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. Scalextric sidewinder cars may have the self-centring guide mechanism removed but care should be taken to ensure that the front splitter does not rub on the track when this is done.
- e. 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 two 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 except:

- If necessary a small hole may be cut in the interior floor to clear the motor brush gear when fitting a Mabuchi 'S' can to a car designed for other types of motor.
- 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. The chassis must be the chassis originally intended for the body being used.
- l. When fitting an alternative motor to a chassis the minimum necessary modification may be made to the chassis in order to fit the new motor. See also Rule 1.
- 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, not exceeding 7.0mm.

Index to amendments

<u>Issue No</u>	<u>Date</u>	<u>Amendment</u>
1	25/02/00	First draft.
1a	31/03/00	Revised after club discussion.
2	03/08/02	Revised to allow new sidewinder cars.
2a	04/08/05	Add Chevy Monte Carlo.
2b	06/03/09	Add Chevy Impala
3	23/05/09	Add Scaleauto SC-0008 20,000rpm Silver can motor Allow 9t (Inline) and 11t (Sidewinder) brass pinions.
3a	05/02/11	Add Scaleauto SC-0020 20,000rpm Blue can motor.
3b	05/11/12	Add Scaleauto SC-0008B 20,000rpm Silver can motor.
3c	12/04/13	Add SCX NASCARs to the eligible cars list. Allow the use of Slot.It wheels and gears. Allow the use of NRS 21x10 rear tyres.
4	01/08/13	Simplify and clarify using standard wording for each section.
4b	06/02/15	Allow any standard depth guide and CB Design wheels. Allow Carrera Cars.
4c	18/04/18	Fix gear ratios to equalise sidewinder and inline top speeds. Inline = 9:27 or 9:28 Sidewinder = 11:34 or 11:36