



Rockingham

SCALEXTRIC Club

NASCAR RACING CHAMPIONSHIP

- The following cars will be eligible to race;

Any pre 2017 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

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.

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. Cars must only have one slot guid.
- b. Cars must only be fitted with one 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 may be the original or a 3D printed and must be complete and unmodified except as detailed below and rule 7 regarding guides
- b. Bodies may be repainted provided that doing so does not distort the body.
- c. White body kits must be fully painted.
- d. 3D printed chassis that are readily available to purchase may be used.
- e. All cars must have a realistic colour scheme and carry at least two racing numbers.
- f. The original interior must be retained complete or replaced with a vacuum formed or other light weight interiors with a minimum of head, shoulders, arms and steering wheel in 3D - and may be glued in place.
- g. No part of the chassis or running gear can 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
5	03/03/23	Add lightweight interiors, printed chassis and remove contradictions in text.