



Rockingham

SCALEXTRIC Club

WORLD TOURING CAR CHAMPIONSHIP

•The following cars will be eligible to race: -

SCX

Seat Toledo Cupra
Honda Accord
BMW 320
Seat Leon
Volvo S60
Alfa Romeo 156

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 must 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.
 $23,000/14 = 1643 \times 12 = 19,716$ rpm @ 12volts.
 - Manufacturer's figures will be accepted as correct.
- b. Shortening the armature shaft is the only modification permitted to any motor.
- c. Motors must be mounted 'inline' (that is at right angles to the rear axle).
- d. 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.
- e. Motors and/or motor mounts may be glued into place if desired.
- f. Rear-wheel drive only is permitted.

2. Gears

- a. All eligible cars may use the gears supplied as original equipment by the manufacturer.
- b. A Slot.It 9 tooth pinion and 27 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.
- b. Any other brand of 15 x 8 plastic or machined aluminium wheels may be substituted if desired.
- 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 18mm, minimum width 8mm.
 - Rear tyres: Minimum diameter 19mm, maximum width 10mm.
- 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 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.
- c. Cars fitted with stub axles may have them replaced with a single, solid axle if desired.

7. Slot Guide

- a. All cars must have one slot guide only.
- b. All cars must use the slot guide supplied as original equipment by the manufacturer with no modifications to the guide or guide mounting.
- c. No parts of the original guide assembly or mounting can be removed.
- 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 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.

Index to amendments

Issue No	Date	Amendment
1	07/10/07	First draft.
1a	24/12/10	Add Scaleauto SC-0020 20,000rpm Blue can motor.
1b	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.