



Rockingham

SCALEXTRIC Club

CONTEMPORARY PROTOTYPE SPORTS CAR RACING CHAMPIONSHIP

Any Prototype Sports Racing Car complying to the following full size class rules;

LMP1

LMP2

GTP

Daytona Prototype

Any car that has competed at Le Mans, Daytona or in the Sports Car World Championship, the European Le Mans Series, the Asian Le Mans Series, the Grand-Am Championship, the American Le Mans Series or the United Sports Car Championship since 2000.

Note! VANQUISH MG cars will not be allowed. They are too much over scale.

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 motor intended for use in a ready-to-run slot car and with a manufacturer's rating not exceeding 25,000rpm 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 26,000rpm @ 14volts.
 $26,000/14 = 1857 \times 12 = 22,286\text{rpm @ } 12\text{volts.}$
 - 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. Front motored cars may be converted to rear motor but must remain 'inline'.
- e. When converting a front motored car or fitting a motor to a chassis intended for a different type of motor any of the following methods are permitted:
 - Any commercially available adaptors may be used.
 - The motor may be mounted to one end of the original mount and have single piece of wire or plastic glued across the chassis to support the other end of the motor.
 - Any plastic 'inline' motor mount or motor pod intended for use in any ready-to-run slot car may be used, and may be modified as desired. Any motor mount or pod used must not be visible outside the body when viewed from the side or from above.
- f. Motor pod mounting screws are free choice and may be left loose but must be prevented from falling out.
- g. Motors and/or motor pods may be glued into place if desired.
- h. Rear-wheel drive only is permitted.

2. Gears

- a. Any brand of gears intended for use in any ready-to-run slot car may be used.
- b. All cars must be fitted with a 9 tooth pinion and 27 or 28 tooth crown gear.
- 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/magnesium wheels may be substituted if desired provided they are of the correct size for the car they are fitted to.
- 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
- 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 if desired, 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. Interiors must be fitted and include a driver - minimum of head, shoulders, arms and steering wheel in 3D - and may be glued in place.
- f. Vacuum formed interiors are permitted but must be 3 dimensional, realistic and painted.
- g. No part of the chassis or running gear may be visible through the cockpit/cabin area.
- h. Windscreens, all other windows and headlight covers, if fitted by the manufacturer, must be retained and be complete, original and transparent.
- i. Wheel arches may not be enlarged in any way but moulding flash may be cleaned off.

- j. Rear view mirrors and wind screen wipers may be omitted but all other detail parts must remain fitted.
- k. At the start of racing all wings must be securely fixed in place.
- l. The chassis must be the chassis originally intended for the body being used.
- m. The chassis may only be modified as detailed in Rules 1, 5, 6, 7, 8, 9 & 10.
- n. 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, motor mount or pod. See also Rule 1.
- o. No part of the chassis can be visible outside the body of the car when viewed from above except where those visible parts represent parts of the real car.
- p. 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 minor parts of the body or chassis detail for this purpose is permitted.
- q. Body fixing screws are free choice and may be left loose.
- r. Adhesive tape or 'blue tack' must be placed over any 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	24/04/04	First draft.
2	14/05/04	Amended after club meeting.
3	22/07/05	Add Spirit Dallara LMP.
3a	28/04/07	Allow Slot-It etc gears and wheels.
3b	04/01/08	Add 2007 new cars. Scaleauto SC-0009 25,000rpm Yellow can motor to be spec motor.
3c	20/12/08	Add Ninco Acura.
3d	05/02/10	Add Scaleauto Radical SR9.
3e	05/11/12	Add Scaleauto SC-0009B 25,000rpm Yellow can motor.
	19/03/13	Add definition of a 'standard depth guide'.
4	01/08/13	Simplify and clarify using standard wording for each section.
5	21/11/15	Amend to permit closed top LMP and Daytona Prototypes.
5b	05/04/23	Clean up typos. Drop LMP