



# *Rockingham*

## **SCALEXTRIC Club**

### **LE MANS GROUP C SPORTS CAR RACING CHAMPIONSHIP**

- **Only the following cars will be eligible to race:-**

#### **Slot.It**

Porsche 956, 956C & 956 KH  
Porsche 962C, 962C KH & 962 IMSA  
Sauber Mercedes C9  
Lancia LC2/84  
Lancia LC2/85  
Jaguar XJR6  
Jaguar XJR9  
Jaguar XJR10  
Jaguar XJR12  
Mazda 787B  
Toyota 86C  
Toyota 88C  
Nissan R89C

This list is based upon Group C Le Mans and IMSA cars of the 1980's that are of generally similar construction and performance.

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 21,500rpm 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.  
 $23,000/14 = 1643 \times 12 = 19,716\text{rpm @ 12volts.}$
  - Manufacturer's figures will be accepted as correct.
- b. Shortening the armature shaft is the only modification permitted to any motor.
- c. All eligible cars must be fitted with one of the following Slot.It inline motor mounts.
  - Zero Offset types SICH02, SICH13, SICH13b
  - 0.5mm Offset type SICH70
- d. Motor position in the motor pod may not be altered in any way.
- e. Motor pod mounting screws are free choice and may be left loose but must be prevented from falling out.
- f. Motors and/or motor pods may be glued into place if desired.
- g. Rear-wheel drive only is permitted.

### 2. Gears

- a. A Slot-It SIPI09 9tooth brass pinions must be used.
- b. A Slot-It standard 28tooth yellow crown gears must be used.
  - Either SIPI28bz bronze boss or SIGI28al aluminium boss.
- c. Offset Crown Gears are not permitted.
- d. Pinions may be glued to motor shafts and crown gears may be glued to axles.

### 3. Wheels

- a. Only the following Slot.It wheels may be used:
  - Front wheels: Slot.It plastic wheels supplied as standard with these cars.
    - Either SIPA17pl 15.8 x 8 or SIPA43PL 16.5 x 8.
  - Rear wheels: Slot.It aluminium wheels supplied as standard with these cars.
    - 15.8 x 8 wheels SIPA17al or SIPA24als.
    - 16.5 x 8 wheels SIPA43als.
- b. Air wheels are not permitted.
- c. The correct wheel centre detail for the car must be fitted.
- d. Wheels may be glued to axles if desired.

### 4. Tyres

- a. Only the following solid rubber tyres may be used:
  - Front tyres: Free choice of tyres provided they fit the wheels.
  - Rear tyres: Any Slot-It rubber tyres that fit the wheels may be used.  
Any NSR rubber tyres that fit the wheels may be used.
- 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 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. Only the plain spherical rear axle bearings manufactured by Slot.It can be used and may be glued into place if desired.

## **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. Front axle vertical movement may be controlled by using standard Slot.It spacer blocks or by fitting grub screws into the holes provided for this purpose. These holes may be drilled into any chassis which does not have them provided.

## **7. Slot Guide**

- a. Any standard depth slot guide\* manufactured by Slot.It may be used.
- b. Guide to motor wires and pick up braids are free choice.

## **8. Lights etc.**

- a. Any car fitted with working lights etc. may have the light bulbs, LED's, wiring, PC board, etc. removed, but must retain all external lenses and a full interior.
- b. Any car competing in a 'night race' must be fitted with working head and tail lights.

The recommended lighting kit is Slot.It SISP06 but alternatives may be used if desired.

(Note: It is best to ensure that the kit used keeps the lights on for a time after a de-slot as this makes the marshals job much easier.)

- c. Any car fitted with a lighting kit and competing in a 'daylight race' may have the lights switched off or disconnected but the full lighting kit must remain

in place if the body, interior or chassis has been modified in any way in order to fit the lighting kit.

## **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 must be removed.

## **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 injection moulded interior must be retained complete, including the complete driver, that may be glued in place (but see Rule 10 I).
- f. No vacuum formed or light weight interiors.
- g. No part of the chassis or running gear must be visible through the cockpit/cabin area.
- h. Windscreen and window mouldings must be retained complete and original.
- i. Wheel arches must 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.
  - Rear wheel covers or spats and the mounting lugs inside the body for them may be removed.
- k. All rear wings must be securely fitted at the start of racing.
- l. When fitting a lighting kit to any car the absolute minimum necessary modifications may be made to the body, interior and chassis.

**Note:** If any modifications have been made in order to fit a lighting kit then the lighting kit must remain in place even in a 'daylight race' but may be switched off or disconnected.
- m. Chassis must be a Slot.It chassis intended for the body being used.
- n. Chassis ride height may not be lowered in any way.
- o. Body to chassis mountings may not be lowered in any way.
- 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 other parts of the body or chassis for this purpose is not permitted.
- q. Body fixing screws are free choice and may be left loose
- r. 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	18/08/05	First draft.
1a	17/12/05	Delete Scalextric car option.
1b	25/11/06	Specify motor as V12/2b only.
1c	24/11/07	Add Orange Endbell motor.
1d	19/12/08	Clarify eligible motors and motor mounts.
1e	08/11/09	Add Mazda 787B and Jaguar XJR12.
1f	30/10/11	Add Toyota 88C and Jaguar XJR6. Clarify eligible gears and wheels.
2	15/03/13	Rules revised to accommodate updated Slot.It components.
4	01/08/13	Simplify and clarify using standard wording for each section.
4a	16/11/14	Add rules for fitting lighting kits. Add Nissan R89C.
5	13/02/16	Return to more normal Rockingham club type rules.
5a	16/06/16	Allow the removal of rear wheel covers on any car so fitted.
5b.	12/04/23	Clarify wording