

# SCHEDULE SCR<sup>©</sup>

## NZ Sports Car Racing Series TECHNICAL REGULATIONS 2023-2024

### COMPETITOR RECORD OF AMENDMENTS ISSUED TO THIS SCHEDULE

Use this table to keep a record of all official amendments issued during the season relative to this Schedule;

Amendment Number	Issue/Effective Date	Regulation reference	Subject / Notes

## 1.0 GENERAL INFORMATION RELATIVE TO THIS SCHEDULE

- 1.1 This Schedule shall be read in its entirety and in conjunction with Appendix Two Schedule A of the 'National Sporting Code' except where an item is not specifically covered within this Schedule, in which case Appendix Two Schedule A will apply.
- 1.2 All text changes from the previous issue of this Schedule are highlighted such. Text changes for grammatical and/or formatting reasons are not highlighted.
- 1.3 Only vehicles complying fully to the technical regulations as detailed hereinafter are eligible to compete in the Series.
- 1.4 These regulations detail the specifications and dimensions permitted.
- 1.5 All vehicles competing in Events to which these regulations apply shall have a valid MotorSport NZ logbook.
- 1.6 **TECHNICAL ELIGIBILITY AND SAFETY EQUIPMENT ENQUIRY:** Where any doubt may exist in understanding any regulation contained within this Schedule it will be understood that it is the Competitors obligation to enquire as to the correct interpretation. All technical eligibility and/or safety equipment enquiry shall be submitted in writing to:
- (1) The Series Scrutineer, as detailed in the Series Articles, then to
  - (2) The MotorSport NZ Technical Department
    - All enquiries should detail the Article in question and the specific subject matter.
    - A written reply will always be given to a written enquiry.
    - On matters of technical eligibility and/or safety compliance, a verbal statement will have no validity.
- 1.7 The NZ Sports Car Racing Inc. appointed Series Scrutineer shall have the right to inspect any competing vehicle during the Series at any Round, and a notation shall be made in the vehicle's MotorSport NZ logbook confirming the inspection has been performed.

## 2.0 DEFINITIONS

- 2.1 Definition of terms used within this Schedule shall be referenced from the National Sporting Code, Appendix Two Schedule A.

**'Race trim'** means the condition the car competes in and includes the driver, all safety items, and all vehicle fluids.

### 3.0 ELIGIBLE VEHICLES

- 3.1 Eligible Vehicles will be open sports cars and sports racing cars in compliance with this schedule. Closed sports cars in full compliance with FIA Group CN technical regulations will be subject to Committee approval on application.

### 4.0 RACE CLASSES

- 4.1 There are two Classes authorised under these regulations as follows:
- (1) **0 – 2000cc Class:** For cars with naturally aspirated engine up to 2000cc and complying with the specific regulations detailed below.
  - (2) **Open Class:** for cars with a naturally aspirated engines up to 4200cc or forced induction engines with a combined swept volume of up to 2400cc and complying with the specific regulations detailed below.
  - (3) **Historic:** for cars at least 25 years old.

### 5.0 RACE WEIGHTS AND DIMENSIONS

- 5.1 Competing vehicles shall respect their maximum racing weight at all times during the competition. The racing weight is the complete weight of the vehicle in 'race trim'. This may be measured at any time, upon the directive of the Series Scrutineer or his designated assistant, during the Meeting, on the official weigh scales of the Meeting.

- 5.2 The maximum race weights and vehicle dimensions are as follows:

- (1) **0 – 2000cc Class:**

Maximum weight:	<b>900Kg</b>
Maximum width:	<b>2000mm</b>
Minimum width:	<b>1500mm</b>
- (2) **Open Class:**

Maximum weight:	<b>900Kg</b>
Maximum width:	<b>2000mm</b>
Minimum width:	<b>1500mm</b>

## 6.0 SAFETY EQUIPMENT REQUIREMENTS

- 6.1 Where not covered under these Technical Regulations, cars must comply with Appendix Two, Schedule A at all times.
- 6.2 The following safety equipment **shall** be fitted to the competing vehicle in full compliance with Schedule A.
- 6.2.1 A **safety cage or safety rollbar homologated** in compliance with Appendix Two Schedule A shall be installed, and must meet the requirements of the Diagram 5.1 (Open Vehicle Main Rollbar Height) in Part Two of that schedule.
- 6.2.2 A **competition seat** or fabricated seat providing full and adequate support to the occupant.
- 6.2.3 A **six(6) strap safety harness** in compliance with FIA Standard 8853-2016 or 8853/98 shall be installed in compliance with Appendix Two Schedule A.
- 6.2.4 A fire extinguisher being a hand-held extinguisher and/or a plumbed in system in compliance with Appendix Two Schedule A.

## 7.0 BODYSHELL, VEHICLE EXTERIOR and AERODYNAMIC AIDS

- 7.1 Bodywork shall cover all mechanical components of the vehicle except:
- Exhaust system
  - Induction system
  - Suspension components
  - Tyres
  - Radiators
  - Rollbar Structure
  - Cockpit opening in the case of an open cockpit car
- 7.2 The **maximum height** of the bodywork, excluding the Rollbar structure and associated fairings, shall not exceed a nominal **1100mm**, measured from the ground.
- 7.2.1 Method for measuring maximum height shall be as follows:
- (1) The car will be placed on a marked common flat surface
  - (2) A 40mm high RHS beam will be laid laterally beneath the car
  - (3) The maximum height from the RHS Beam to the highest point of the bodywork, excluding the rollbar and associated fairings, shall not exceed 1060mm.
- 7.3 **Cockpit Opening** area for all cars, except 'closed cockpit' cars, when viewed from above, shall be fully visible at all times except for where members of the Safety Rollbar structure impede view.
- 7.4 **The driver seating position** shall be to one side of the car so the driver's helmet is completely contained to one side or the other of the car's longitudinal centre-line when in their normally seated position.

- 7.4.1 Central mounted seats are not permitted under any circumstances.
- 7.5 **Aerodynamic devices** where separate from the body work, including end plates shall comply with and be measured as per 7.2 above.
- 7.5.1 The maximum distance from the front edge of the front splitter to the front axle centre-line shall not exceed **1100mm**.
- 7.5.2 **The maximum distance** from the rear axle centre-line to the rear-most point of the rear wing assembly or diffuser, whichever is the greater, shall not exceed **1300mm**.
- 7.6 **Mudguards** where used must cover at least one third of the circumference of the tyre from 9 o'clock to 1 o'clock when viewed from the side, and must cover all of the tyres tread width when viewed from above. Mudguards may be cycle style or similar when the bodywork does not cover the road wheels.

## 8.0 VEHICLE INTERIOR

- 8.1 All interior fittings are free provided compliance with Schedule A is maintained.

## 9.0 CHASSIS

- 9.1 **Chassis design** and construction is free providing compliance with Appendix two Schedule A is maintained.
- 9.2 For chassis manufactured from composite materials all repairs shall be undertaken in compliance with Appendix Two Schedule A 5.8.1.

## 10.0 ENGINES

- 10.1 **Engine – 0 to 2000cc (2 Litre Class) Cars shall comply with the following:**
- 10.1.1 **All 0-2000cc (2.0 Litre Class)** engines shall be internal combustion, spark ignition four stroke reciprocating engines with swept volume not exceeding 2000cc and where at least one thousand (1000) identical units have been manufactured in one calendar year.
- 10.1.2 **Bore and Stroke** may be altered providing the total combined swept volume of the engine does not exceed 2000cc. Where the stroke has been altered from original, reboring that will exceed 2000cc combined swept volume is not permitted.
- 10.1.3 **Overboring** of engines with standard production block bore and stroke where the combined swept volume may exceed 2000cc is permitted up to 1.0mm overbore only.
- 10.1.4 **Overboring** of smaller displacement engines is free providing they remain below 2000cc combined swept volume.

**10.2 Engine – Open Class Cars shall comply with the following:**

**10.2.1 Engines** accepted are four stroke reciprocation engines and normally aspirated rotary engines in compliance with the following.

**10.2.2 Engine capacity** limits are:

- Normally aspirated up to 4200cc
- Forced induction up to 2400cc combined swept volume
- Normally aspirated 13B Rotary engines

**10.3 Forced induction** cars shall have a maximum **boost limit of 18psi**.

**10.3.1 Forced induction** cars shall fit at the Competitor's cost a Class supplied and sealed **boost data logger**.

**10.4 Rotary engines** may be modified to bridge-port or peripheral Port configuration but shall remain normally aspirated.

**10.5 Radical Cars:**

**10.5.1** All previous models of Radical cars are permitted as long as those vehicles meet Schedule A requirements.

**10.5.2** Radical RXC Spyder in Factory Standard configuration as published at 1 September 2022 are approved. This vehicle may only operate ABS and Traction Control with the approval of the Committee.

**10.5.3** Any new models of Radical cars must be approved by the Committee.

**10.6 Engine Seals** shall be fitted that seal the cylinder head to cylinder block as is provided for under Appendix Two Schedule A 3.7.

**10.6.1 Sealing holes** of a minimum diameter of 2.5mm shall be drilled in adjacent bolt heads or flanges/casting webs on both the cylinder head and the block to allow Class seals to be fitted.

**10.6.2 Official seals**, once applied shall remain intact for the duration of the Series as detailed in Appendix Two Schedule A.

**10.6.3 Official seals** can only be broken with the written permission of the Series Scrutineer who may request an inspection.

**10.6.4** If an official seal is broken without receiving Series Scrutineer approval all Series points gained over the duration of the seal will be forfeited.

## **11.0 TRANSMISSION & FINAL DRIVE**

- 11.1 The transmission is free but traction control is not permitted.
- 11.2 A reverse gear that is operable by the driver from the cockpit is required.

## **12.0 ELECTRICAL SYSTEM**

- 12.1 Electrical and lighting system must comply with Appendix Two Schedule A.
- 12.2 Rain lights shall be installed as per Appendix Two Schedule A and be a minimum of 15 watts or LED equivalent.

## **13.0 SUSPENSION**

- 13.1 **Suspension** is free but shall be of an articulated design and shall contain a spring medium, such as coil spring, torsion bar, airbag etc.
- 13.2 **Solid or active** suspension are not permitted.

## **14.0 BRAKING SYSTEM**

- 14.1 **Brake rotors** shall be ferrous.
- 14.2 **ABS** is not permitted.
- 14.3 **The brake system** is otherwise free.

## **15.0 ROAD WHEELS & TYRES**

- 15.1 **Wheels and tyres** are free providing Appendix Two Schedule A compliance is maintained.