SOUTH AFRICAN MODEL CAR ASSOCIATION

Sports (S24) Class Rules

Extract from the SAMCA Rules & Regulations 2027 (Ver 2027.1), Section 2: Car Specifications

Commercially Available: In terms of these rules a Commercially Available item shall be defined as any item, that is or has been offered for sale in ample quantities and for an adequate period of time, that is or was freely available to any customer, that has not been modified by the seller specifically for select customers, and at a price that is or was at the time of sale comparable to other similar products in the marketplace.

2.1 Sports (S24)

2.1.1 All cars must comply with the following specifications at the commencement of and during each event.

2.1.2 Cars

2.1.2.1 Cars shall have a maximum overall width of 83mm.

2.1.2.2 Cars shall have a maximum height of 40mm measured from the track surface.

2.1.2.3 No part of the car, except braids, tyres and skids shall touch the track when stationary.

2.1.3 Bodies

2.1.3.1 Bodies shall be Commercially Available 1/24th sports racing prototype semi-scale or silhouette bodies (These are generally listed by manufacturers such as GTP, GT1 or LMP bodies).

2.1.3.2 Bodies shall be painted or otherwise finished in a presentable manner, with transparent windscreen where applicable. The painted area must comprise at least 95% of the body shell making allowance for clear sections deemed appropriate for the enhancement of scale effect.

2.1.3.3 Bodies shall have cut out or clear wheel arches which at least correspond in position and size with the wheels on the chassis. Not applicable if a wheel decal or painted wheel facsimile is used.

2.1.3.4 Front wheel decals or a reasonable hand drawn/painted facsimile +/- 16 mm in diameter may be applied instead of chassis mounted front wheels. These must correspond to the position of the front wheels as provided on the body shell.

2.1.3.5 Bodies shall have, in the appropriate position, a presentably painted 2 or 3 dimensional driver consisting of the head, shoulders, hands and the upper half of a steering wheel.

2.1.3.6 Bodies shall clearly display two racing numbers, with a minimum height of 6mm, numbers will be issued based on the results of the Open Class from the previous season.

2.1.4 Chassis

2.1.4.1 Chassis must be Commercially Available. Carbon fiber chassis and pans are strictly prohibited.

2.1.4.2 Chassis must be available in kit form or assembled RTR form.

2.1.4.3 Chassis may be modified, provided that the original design is not altered. The addition of a motor bracket to accommodate a brushless motor is allowed.

2.1.4.4 Weight may be added to the top of the chassis but magnetic traction aids are not permitted.

2.1.4.5 Chassis shall not project from the body, or be visible when viewed from above. The complete chassis, motor, wheels/braid and flag must be covered by a body shell that complies with 2.1.3.2

2.1.4.6 Rear axle ball bearings are permitted.

2.1.4.7 Skids may be added to the front of the chassis but must conform to the shape and size of the chassis.

2.1.5 Guide

2.1.5.1 The guide shall be made from a plastic, nylon, or other non-metallic material.

2.1.5.2 The guide shall present a smooth surface to the slot and have no sharp edges, which could damage the track surface.

2.1.5.3 The guide pivot mounting shall be fixed and centred on the chassis when viewed from the front.

2.1.5.4 The guide shall have a maximum length of 28mm and may penetrate the slot by no more than 6.35mm.

2.1.5.5 The guide shall be fully enclosed by the body used.

2.1.5.6 Weighted guides are not permitted.

2.1.6 Tyres

2.1.6.1 Driving wheels shall be fitted with tyres made from black sponge rubber.

2.1.6.2 If non-driving wheels are fitted, the tyres shall be made from rubber or similar material and must be visible from the sides.

2.1.7 Airdams & Spoilers

2.1.7.1 No additional aerodynamic devices may be fitted.

2.1.8 Motors

2.1.8.1 Only Commercially Available Group 12 "C" Can and Euro Mini-Can (FK) based motors, as well as 1105 or 1106 12-magnet 6500Kv or lower Kv brushless motors from the following manufacturers, are permitted: KC Racing, Parma and DoSlot.

2.1.8.2 Brushless motors from the permitted manufacturers must be marked 6500Kv or lower.

2.1.8.3 When utilizing the Group 12 motors, only manufacturer tagged armatures (‘12’, ‘H12’, ‘X12’) are allowed. Such armatures may be hand wound and have drill blank shafts.

2.1.8.4 Brushes may be shunted.

2.1.8.5 Can and endbell ball bearings may be fitted.

2.1.8.6 Motors may be shortened.

2.1.8.7 With regards to brushless motors the following is allowed:

2.1.8.7.1 Removal of the circlip and replacement with a spacer, or leaving it off entirely

2.1.8.7.2 Balancing of bells

2.1.8.7.3 Shortening of the shaft

2.1.8.7.4 Replacing the shaft

2.1.8.7.5 Replacing ball-bearings

2.1.8.7.6 Shortening or replacing mounting screws

2.1.8.8 With regards to brushless motors the following is NOT allowed:

2.1.8.8.1 Replacing the stator with a higher KV stator

2.1.8.8.2 Rewinding the stator

2.1.8.8.3 Any modification, alteration, or component change not expressly permitted under these rules is prohibited.

2.1.9 ESCs

2.1.9.1 Only Mid America, X89, DoSlot, SBM ESCs are allowed.

2.1.9.2 The use of any additional energy storage or power-supplementing devices, including but not limited to capacitors, is strictly prohibited.

This is an extract for convenience. The full SAMCA Constitution and Rules & Regulations apply to all events, including scrutineering, motor testing and penalties. If this extract and the full Rules & Regulations differ, the full Rules & Regulations prevail.

Last updated: 10 November 2026