



2020

CLUB RULES
REGULATIONS
TECHNICAL SPECIFICATIONS
Version: 01 / JANUARY 20

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Affiliated to SAMCA



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1. GENERAL

- a. Race World SA is a privately owned commercial raceway business. The purpose of the Club is to organize and promote slot car racing in a competitive, friendly and safe environment.
- b. **Right of admission is reserved. Participants, marshals and spectators shall at all times conduct themselves appropriately. All members shall assist with the cleaning, maintenance and tidiness of the Club premises.**
- c. Rules shall be applied strictly and fairly by Club Officials. Subject to specific penalties as outlined in these rules, any competitor failing to comply with the rules or failing to comply with the instructions of an official shall receive a warning and/or a penalty or be disqualified from the race.
- d. The Club shall be open for practice and racing on Mondays and Wednesdays from 18:00 until the end of the last race. Practice shall take place from 18:00 to 18:45. Scrutineering will commence at 18:45 and racing will start at 19:00.
- e. All participants shall register for racing by 18:30 in person or by proxy.

2. CLUB MANAGING COMMITTEE [CMC]

- a. Club Officials are voted for and elected by the Club Members [majority vote] and shall manage the club for the year they are elected and until such time that new officials are appointed at the AGM which shall be held as close as possible after the last race of the season.
- b. Elected Club Managing Committee [CMC] officials for 2019:

Chairman	Manfred Karner	manfredk@mweb.co.za	082 925 1310
Treasurer	Angelique Gunther	info@raceworld.co.za	082 634 4150
Club Secretary	Kieron Paterson	kieron@paterson.co.za	083 382 5094
Technical Directors	Johan Van Der Merwe	Johanc082@gmail.com	082 295 8538
Competition Director	Kieron Paterson	kieron@paterson.co.za	083 382 5094

Elected Club Managing Sub-Committee [CMSC] officials for 2019:

Technical Directors	Wally Whitcher	louisewhitcher@telkomsa.net	082 800 2090
Competition Director	Jason Luck	Jason.luck@megacoach.co.za	083 596 5140

3. MEMBERSHIP

- a. Membership entitles members to race on two club nights per week.
- f. Membership entitles members of good standing to exercise their right to vote at the AGM or on rule changes at special meeting of members by either a show of hands or private ballot.

4. CLUB MEMBERSHIP FEES

a. Adult Members:

A monthly membership fee of R300, payable on the first club night of the month.

- 1. Duel Membership Fee for Race World SA and Cambridge of R500 per month.

b. Junior/Student Members:

Junior/Student Members (up to the age of 18-years or full-time students), pay a monthly fee of R350.

c. Visitors:

Visitors shall pay a fee of R75.

5. RACING CATEGORIES

Club championship racing takes place in the categories below:

On Mondays:

- i. Scale 24 - 1/24 Scale Classic Sports/GT & Can-Am cars
- ii. True Scale 24 - 1/24 Scale Hard body GT cars

On Wednesdays:

- i. JK 24 - 1/24 Scale JK C21 LMP, GTP & Sports/GT
- ii. Sports 24 - 1/24 Scale Sports

All cars must comply with the following specifications at the commencement of each race:



PLAFIT24

production class | ———— ○

1/24 SCALE SPORTS/GT & CAN-AM CARS

(SCALE 24)

BODIES

- a. All 'classic' Sports/GT (up to and including 1979) and Can-Am cars (up to and including 1973) are eligible.
- b. Bodies shall be reasonably accurate 1/24th scale representations of actual cars and painted or otherwise finished in a presentable manner, with transparent or tinted windows, where applicable.
- c. Colour schemes do not have to replicate actual cars.
- d. Bodies shall have cut out wheel arches.
- e. Bodies shall have, in the appropriate position, a presentably painted 3-dimensional driver figure consisting of at least head, shoulders, hands and the upper half of a steering wheel.
- f. Bodies shall clearly display at least two racing numbers.

CHASSIS

- a. Only Plafit 1700 series chassis may be used.
- b. The standard main chassis plate of the 1700 chassis may be replaced with the following Plafit extended chassis plates; 1701B (+10mm), 1701B15 (+10mm, 1.5mm) or 1701C (+20mm) only.
- c. The standard sub-frame of the 1700 chassis may be replaced with the following Plafit extended sub-frames; 1710B (+6mm) or 1710C (+12mm) only.
- d. The standard body mounting may be replaced using Plafit 1706 and 1707 series body mounting plates. Body mounts may have pillar for pin attachment.
- e. Front and rear bearing holders (pillow-blocks) may be replaced with different height Plafit 1700 series pillow-blocks. Pillow-blocks may be shimmed.
- f. No carbon fibre components are permitted.
- g. No magnetically-aided traction is allowed whatsoever.
- h. Weight / ballast may be added.
- i. The chassis, including the guide flag, wheels and tyres, shall not project from the body, nor be visible when viewed from above.
- j. No part of the car except braids and tyres shall touch the track when stationary. Front tyres must touch the track surface.
- k. Maximum width measured across front and rear wheels is 80mm.
- l. Axle ball bearings are permitted.
- m. Only 3mm diameter rear axles may be used.
- n. Any guide flag may be used.

WHEELS & TYRES

- a. Rear tyres shall be made from black foam rubber.
Rear tyres: Minimum diameter 23mm / Maximum diameter 27mm /
Maximum width 16mm.
- b. Front tyres shall be made from black rubber.
Front tyres: Minimum diameter 21mm / Minimum width 6mm.

GEARS

Any 10 tooth pinion and 36 or 38 tooth gear may be used.

MOTORS

ONLY JK Products ref. M25 Hawk 25 motors, laser etched '25 25 25 25' are allowed
Motors may not be opened or modified in any way, except the armature shaft may be shortened.
Any lead wire may be used.



TRUE SCALE
production class

1/24 TRUE SCALE (TS24)

BODIES

- a. Hard body GT racing cars with a rear wing installed, light kit installed and body weighing minimum 60 grams, as raced between 1990 to present. No lexan windows may be used.
- b. Complete car minimum weight 190 grams ready to race.
- c. The chassis, including the guide flag and wheels and tyres, shall not project from the body, nor be visible when viewed from above.

CHASSIS

- a. Maximum width measured across the outside edges of the front and rear wheels is 80mm.
- b. Minimum 1mm chassis ground clearance all around.
- c. No magnetically-aided traction is allowed whatsoever.
- d. Suspension sub-frames and non-rigid motor boxes are not permitted.
- e. Weight / ballast may be added.
- f. No part of the car, except braids and tyres, shall touch the track when stationary. Front tyres must touch the track surface.
- g. Axle ball bearings are permitted.
- h. Only 3mm axles are permitted.
- i. Any guide flag with a maximum blade length of 28mm may be used.

WHEELS & TYRES

- a. Rear tyres shall be made from black foam rubber.
Minimum diameter 25mm on 21mm diameter rims.
Maximum width 13mm.
- b. Front tyres shall be made from black rubber.
Minimum diameter 25mm on 21mm diameter rims.
Minimum width 6mm.

GEARS

Only 12 tooth pinions and any 40, 41, 42, 43 or 44 tooth gears may be used.

MOTORS

ONLY Scaleauto SC-29 motors are allowed.
Motors may not be opened or modified in any way.



1/24 SCALE JK C21 LMP,GTP, SPORTS/GT (JK 24)

Parts may not be modified in any way unless explicitly stated

BODIES

- a. Only JK Products LMP, GTP and Sports/GT 0.010" thick bodies are eligible.
- b. Bodies shall be reasonably accurate 1/24th scale representations of actual cars and painted or otherwise finished in a presentable manner, with transparent or tinted windows, where applicable.
- c. Colour schemes do not have to replicate actual cars.
- d. Bodies do not have to have cut out front wheel arches and they may be left clear. If the front wheel arch is painted, sticker or painted front wheels are required.
- e. Bodies shall clearly display at least two racing numbers.

CHASSIS

- a. Only standard steel stamped JK 4" Cheetah C21 chassis may be used. No modifications permitted, except:
 - a. For the holes in the motor mount which may be enlarged, but must remain intact.
 - b. Pillow block holes may be enlarged to facilitate rear axle alignment.
 - c. A notch may be cut in the side pan to allow bite bar removal.
- b. Any diameter bite bar may be used.
- c. The front of the chassis must clear the track surface. The rear of the chassis may must clear the track surface.
- d. Motors may be soldered to the chassis.
- e. No magnetically-aided traction is allowed whatsoever.
- f. Weight / ballast may not be added to the chassis.
- g. The chassis, including the guide flag, wheels and tyres, shall not project from the body, nor be visible when viewed from above.
- h. No part of the car, except braids and tyres, shall touch the track when stationary. Front tyres do not have to touch the track surface.
- i. Maximum width measured across front and rear wheels is 83mm.
- j. Axle ball bearings are not permitted.
- k. Only JK guide flags may be used.

WHEELS & TYRES

- a. Rear tyres shall be made from black foam rubber, with only JK plastic rims.
- b. Standard JK front wheels / front axle (Piano Wire) must be used, but need not touch the track surface.
- c. Only JK 3/32 axles may be used.

GEARS

Only JK 35, 36, 37 or 38 tooth gears may be used with JK 10 tooth pinions.

MOTORS

ONLY JK Products ref. M7 Hawk 7 motors, laser etched '7 7 7 7' are allowed
Motors may not be opened or modified in any way, except:

- a. The armature shaft may be shortened
 - b. The axle-side corner of the motor may be ground or filed to clear the rear axle.
- Any lead wire may be used.



1/24 SCALE SPORTS (S24)

BODIES

- a. Any sports car body, including 'high-downforce' bodies. No additional aerodynamic devices may be added to the body.
- b. Bodies shall be painted or otherwise finished in a presentable manner.
- c. Bodies shall clearly display at least two racing numbers.

CHASSIS

- a. Any commercially available stamped steel chassis may be used. Chassis may not be modified, except 'bite bars' (any diameter bite bar is permitted). A notch may be cut in the side-pan to facilitate removal of the bite bar.
- b. No magnetically-aided traction is allowed whatsoever.
- c. Weight / ballast may be added to the top of the chassis.
- d. The chassis, including the guide flag, wheels and tyres, shall not project from the body, nor be visible when viewed from above (except through the cockpit, where no interior is present).
- e. No part of the car, except braids and tyres, shall touch the track when stationary. Front tyres (if present) do not have to touch the track surface.
- f. Maximum width measured across the outer edges of the rear wheels is 83mm.
- g. Front wheels are not required, however 'sticker' or painted front wheels must be placed in the appropriate area on the body.
- h. Axle ball bearings are permitted.

WHEELS & TYRES

Rear tyres shall be made from black foam rubber.

GEARS

Any gears / gear ratio allowed.

MOTORS

Eligible motors:

a) Sealed FK Motors:

Any sealed FK size motor, including:

- JK Hawk 3
- Mid America Phoenix

b) 16D Can Size Motors:

- S16D

i As per SAMCA Production 24 specifications, any 16D can size set-up (Parma, Pro Slot, Kamen, Red Fox). Any commercially available factory-tagged 16D or S16D armature. Ball bearings are allowed.

6. PRACTICE, TRACK PREPARATION AND MARSHALLING

- a. Official practice shall take place from 18:00 until 18:45. During this session, only participating drivers may practice.
- b. The cleaning of the track will take place on the first race night of every month alternating between each race night of Monday's and Wednesday's.
- c. Drivers shall endeavor to practice with the same category of car as the majority of drivers during that practice session.
- d. No car may be placed on the track without a body mounted on the car.
- e. During practice, a driver is subject to all applicable Club rules applied in context.
- f. Each participant shall assist with the cleaning of the track/braid every 1st race night of every month.
- g. All drivers not participating in a specific race shall avail themselves for marshalling. Specifically, drivers from the previous race will marshal the next race and be ready at a marshalling point within two minutes after the line-up orders are given by RACE CONTROL and may not leave the marshalling point, failing which a marshal may immediately be awarded a two lap penalty for the next race by RACE CONTROL.
- h. The drivers from a previous race will be the first option to marshal the following race with any other drivers also making themselves available if need be. Marshals will get called by race control and assigned to parts of the track.
- i. **Marshals must remain quiet** and not enter into discussions or debate with anyone while performing marshalling duties and shall at all times focus on their assigned part of the track.
- j. A marshal may not leave the marshalling position for any reason and shall not sit, eat, drink or operate their cell phones while performing duties during racing.
- k. At lane changes, a marshal must ensure that all cars in his/her assigned area are changed to the next lane and that it has a corresponding colour sticker. However, it remains the responsibility of the driver to ensure this.
- l. No tyre traction additive or any similar solvent (except those used for track cleaning purposes) may be applied directly to the track at any time before or during a race.
- m. Tyre traction additive may only be applied to a car on a straight. Should a driver's car be on a corner and he/she wishes to apply tyre traction additive, he/she must move his/her car back at least 30 cm before the end of the straight preceding the corner.
- n. If a car de-slots, the marshal closest shall quickly ensure that it is removed by lifting it out of the way of approaching cars and then replace it in the slot. In a multi-car accident, a marshal shall replace the car which caused the accident last.
- o. A marshal shall report any car change by a driver during a lane change or race stoppage or any other race transgression to RACE CONTROL.

7. RACING RULES

- a. RACE CONTROL is for all purposes in charge of the racing event.
- b. Apart from managing race proceedings, RACE CONTROL must ensure that marshals are appointed on each respective corner and remain on duty during racing and that drivers, marshals and spectators are silent during racing. RACE CONTROL will handle transgressions and objections in terms of these rules.
- c. The drivers for each race shall be determined by RACE CONTROL within the parameters of the grading of the drivers and then championship standings.
- d. RACE CONTROL shall announce the drivers for each race ("starting orders") and allow two minutes before starting race proceedings. RACE CONTROL shall not wait for any driver [or marshal] after the two minute period and shall commence with starting the race.
- e. During racing, the spares shop shall be closed and no one is allowed in the pit area (unless RACE CONTROL permits) with spectators either seated or outside. Between races, only drivers are permitted in the pit area.
- f. Scrutineering shall commence at 18:45. Should a car be found to not comply with the regulations, the entrant will be given 5-minutes to rectify it. If the car cannot be rectified in time, the entrant will be permitted to race, however no championship points will be awarded.
- g. All cars will be impounded in parc fermé and may not be removed once scrutineered.
- h. The appointed scrutineer(s) may at any time before, during or after a race inspect a car to ensure that it meets with the technical specifications.
- i. A driver found racing an "illegal" car, irrespective of whether it was scrutineered before the race or not, will be disqualified.
- j. A driver may use more than one car during a particular race and may re-enter a previously raced car, provided that should a driver change a car [whether a different car or his original car] for any reason whatsoever during a lane change or race stoppage, he/she will be awarded a 5 lap penalty.
- k. No penalty shall be awarded if the driver himself or herself changes the car during the race without any assistance from another person.
- l. A driver must inform RACE CONTROL of any car change, failure to do so may receive a [further] 5 lap penalty, irrespective of when the car was changed.
- m. Changing a chassis or body or both shall for these purposes constitute a car change.
- n. Subject to any applicable rule, a driver may handle his/her car during a race or lane change for cleaning or adjustment of braids and tyres or any other repairs, provided that it does not interfere with the race or the other racers and that a race shall not be stopped or delayed for this purpose.
- o. A driver or marshal may call "TRACK" only if:-
 - i. A car de-slots onto an adjacent lane occupied by another car.
 - ii. A car de-slots where no marshal is present.
 - iii. A marshal cannot reach a de-slotted car.
 - iv. A car de-slots under the bridge. The person is to shout **BRIDGE**.
 - v. A car runs off the track onto the floor.
 - vi. Three or more cars de-slot at the same corner per one marshal.
- p. In case of any of the above, the race shall be stopped by RACE CONTROL and re-started when clear.
- q. No driver only a marshal may touch the car(s) for inspection or repair during such a race stoppage, unless stated by RACE CONTROL.

- r. No driver may leave the rostrum during a race stoppage. Only on lane changes or if he/she wants to check their car they will stop the car in the pit area before the Start/Finish line and make their way off the rostrum.
- s. A race shall not be stopped for accidents, damaged cars or any reason other than those mentioned above.
- t. A driver who in the opinion of RACE CONTROL abuses the "Track" call may be penalized 2 laps in that race.
- u. No verbal or any other form of abuse of marshals will be allowed, either by drivers or any other person.
- v. Should such an infringement occur, RACE CONTROL may stop the race and warn the offender. Should the same offender repeat the abuse, he/she may, if he/she is a driver, be awarded a five lap penalty by RACE CONTROL and, if a spectator, be asked to leave the premises.
- w. Race times – 2 minutes per lane with 1 minute per lane changes, 12 minutes per race.

8. OBJECTIONS

- a. Should any championship contestant wish to lodge a protest, he/she should do so at the next lane change or at the latest at the end of a race, by verbally lodging a formal protest with RACE CONTROL.
- b. RACE CONTROL shall decide if the race needs to be delayed or if it can be dealt with after the completion of the race.
- c. Formal protests shall be heard and adjudicated by a Racing Committee consisting of RACE CONTROL and two Club Officials [not involved in the protest] which shall include a scrutinizer, should the protest revolve around the specifications of a car. A majority decision of the Racing Committee is final.
- d. Should a driver or marshal be awarded any penalty/penalties by RACE CONTROL in terms of these rules, he/she or they may lodge an appeal against such penalty before the next race starts. The appeal shall be heard and adjudicated by three Committee Members, whose decision shall be final.

9. APPLICATION AND RULE CHANGES

- a. These rules shall apply for the duration of the 2020 season and/or until such time that they are amended.
- b. The Club rules may be changed during the year by a unanimous decision of the Club Managing Committee.
- c. If the Club Managing Committee cannot reach consensus or prefer the Club members to decide, the proposed change shall be referred to a special members meeting or the next Annual General Meeting, where a rule may be changed by a majority vote.
- d. Any such changes shall come into effect after seven days' notice to all members and be attached to these rules as an addendum.

10. DRIVER CLASSES AND CHAMPIONSHIP POINTS

- a. Drivers are graded as either A or B class, depending upon ability and experience.
- b. New entrants and unclassified drivers shall enter the lowest class for the first five racing weeks, after which he/she shall move to the racing class which his/her average laps over the five week period qualifies for, provided further that if the driver then moves to a higher class, his/her accumulated points shall be re-calculated as if he/she raced in the higher class.
- c. A driver shall remain in the class he/she started in at the beginning of the year [new drivers after allocation of his/her racing class after six weeks] irrespective of his or her progress or improvement during the year.
- d. Each racing series will have a duration of 5-weeks. A driver's best 4-results from 5-races will count for points.
- e. Drivers are awarded points [1st 15 points, 2nd 12 points, 3rd 10 points, 4th 8 points, 5th 7 points, 6th 6 points, 7th 5 points, 8th 4 points, 9th 3 points, 10th 2 points; all other drivers who started a race and finished 11th or lower = 1 point] based on his/her overall position in each racing category and in his/her driver class [A or B], counting towards the respective racing category, driver class and overall championships.
- f. *Concours d'Elegance* bonus points will be awarded at the beginning of each race series [1st = 3 points, 2nd = 2 points, 3rd = 1 point]. The *Concours d'Elegance* points will be added to the entrants overall points standing. Pre-painted JK bodies will not be eligible.
- g. In all racing categories, overall if five or less drivers enter and start a race, no championship points will be awarded.

11. CONTROLLER WIRING DIAGRAM

Polarity: Positive on the right and negative on the left of the slot in the direction of travel.

Controller plugs: Each lane has duplicate 5 amp plugs wired as per the diagram below, connected to a three-position selector switch giving on/off/on facilities.

5 Amp Controller Plug



