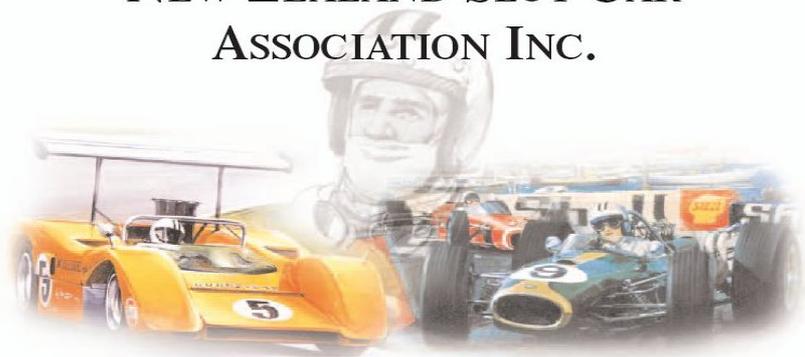


NEW ZEALAND SLOT CAR ASSOCIATION INC.



NZSCA RULE BOOK

2025

Changes to note from 2024 include:

RTR rule Set – numerous updates and clarifications

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RTR 2025

(J) RTR CLASS RULES

J1. CLASSES

RTR NZSCA Championship meetings may include the following classes, up to four of which may be entered by each individual competitor toward their championship campaign:

- Slot-It Group C
- NSR Classics
- Muscle Car
- GT
- Thunderslot
- Classic F1, which will include both NSR F1 and Scaleauto F1, run together as one class

J.2 – Championships – RTR Championship points will be awarded following the current 1/32nd scale points system (50 47 45 etc).

(K) RTR CAR SPECIFICATIONS

These apply to all classes of cars unless variations are specified in individual class rules.

K1. DIMENSIONS

1.1 - Width - Wheels and tyres must fit into the original arches looking from above.

1.2 - Clearance - 0.5 mm ground clearance measured at the rear of the car, from chassis, gears or body at the start of the race. The Chief Scrutineer's decision on width and clearance is final.

K2. GUIDE FLAG

2.1 - Guide - Only one RTR type guide flag is allowed.

2.2 - Guide Spacers, Nut etc - Guide nut, spacers, clips, lead-wire and lead wire stays are free.

K3. WHEELS AND TYRES

3.1 - Four Visible Wheels - All cars must have a total of four visible wheels when viewed from the two sides. Wheels must fit within the original wheel arches when looking from the two sides.

3.2 - Front Wheels - Must have tyres fitted and be able to rotate.
Both front wheels are to be in contact with the track while the car is at rest.
Sticker wheels or wing car style front wheels are not permitted.

3.3 - Wheel Inserts - Original wheels OR matching 3D wheel inserts in both style and colour, front and rear, from the time period the full size car raced in are required.
Photographic evidence may be requested!! In cases where period inserts are not available, (e.g. Scalextric muscle cars) the original wheels may be made into inserts to fit other wheel brands.

3.4 - Tyres - Hard rubber tyres only. No foam tyres or silicone.
Friction reducing coatings on front tyres permitted in selected classes.

3.5 - Tyre Treatment – Use of tyre 'goop' or glue on the rear tyres is not permitted but tyres may be glued to rims. Tyres may be treated prior to the event.
No treatment used is permitted to adversely affect the running of any other car.
The Chief Scrutineer may require excess treatment removed by the racer if adverse effect likely.

3.6 - Tyre Cleaning – only sticky tape and or approved RTR tyre cleaner as per the host club may be used during the course of the event, this must also be freely accessible to all competitors.

K4. CHASSIS

4.1 - Chassis - Must appear stock when viewed from the underside of the car.

4.2 - Chassis Hacking - Or drilling is not permitted. Holes may be refilled & painted.

4.3 - Traction Magnets - Not permitted and must be removed.

4.4 - Body/Pod Screws - Free. Only screws may be used to mount body to chassis.

Pins, clips or other means of body fixing is not allowed.
RTR spring kits may be used (class dependant).

4.5 - Ballast - Where allowed must be carried internally (i.e. cannot be visible from outside or underside of the car).

4.6 - Matching - Body to chassis as supplied with car or direct replacement.

4.7 - Variants - TSRF, Plafit, MRRC and other metal chassis variants - Not permitted.

4.8 - Motors and Pods - May be glued or taped in position.

K5. BODY

5.1 - Interior - All cars must have a 3D interior driver (head, shoulders and arms), steering wheel and seat/s and be sufficiently complete so that no chassis or other components can be seen through the windows.

5.2 - Numbers - All cars must have at least two readable numbers of the same numeral, and in a contrasting colour to the paint.

5.3 - Cover Chassis - The chassis and guide must be completely covered by the body when viewed from above. The chassis and motor must be completely covered by the body when viewed from front, rear, left and right sides of car.

5.4 - Clear Parts - Lights and windscreens must be fitted. Windscreens must remain clear if the model car is supplied with a clear screen or screens - minor glue accidents accepted.

5.5 - Internal Material - Only a minimal amount of material may be removed to facilitate body fitment.

5.6 - Rear Wing - if applicable must be fitted for qualifying and the start of the race.

5.7 - Resin and vacuum formed - Resin and vacuum formed bodies are not permitted.

5.8 - White Kits - These are allowed in all classes providing they look the part. Paint must adequately cover the body so no unpainted areas remain (no clear coat on white plastic). "Tear proof" substitute wings may be left unpainted. Must have sufficient decals and other embellishments for the time period modelled to appear "semi scale".

5.9 - Exterior - Cannot be modified in any way except for paint/livery as per 5.8. Tow hooks, wing mirrors, antennas and windscreen wipers may be removed. No external modification to wheel arches, wings, roof line is permitted. Reasonable repairs excepted.

5.10 - Body Lists - The RTR Sub Committee of the New Zealand Slot Car Association Inc. will publish a list of eligible RTR bodies and car models for each category within 3 months prior to the next event. The eligible lists will be compiled in consultation with financial Member Clubs and approved by the NZSCA RTR Technical Officer. Any bodies that Member Clubs want considered to be added or removed from the approved lists must be submitted to the NZSCA RTR Sub Committee no later than 4 months prior to the next event.

RTR BODY LIST 2025

Any car that has been omitted from the lists due to being a new release, or oversight, that is available for public sale, may be considered for inclusion into the appropriate category, at the discretion of the NZSCA RTR subcommittee provided that it is notified within 4 months prior to the next event.

INDIVIDUAL CLASS SPECIFICATIONS

K7. SLOT-IT GROUP C

FIA sanctioned prototype sports cars that were raced during the 1980's and early 90's. IMSA GTP liveries are accepted. Slot-it brand only. Not limited to this list.

Mazda 787B, Jaguar XJR6, 9, 10 and 12, Lancia LC2, Nissan R89, R90 and R91, Porsche 956 & 962, Sauber C9 Toyota 63C, 86C, 88C.

- 7.1 - General Specifications – Must comply with all General Car specifications K1 – K5 inclusive, and or variations below.
- 7.2 - Chassis Type – Chassis must be stock when viewed from both inside and outside except as provided in 7.3
- 7.3 - Blueprinting - Straightening of chassis and minimal material removal from edges to allow free body and/or pod movement is permitted.
- 7.4 - Upgrading - Replacement of older style guides, chassis, motor and pod, bushings and rear wheels or any combination thereof to match the latest box stock specification is permitted.
No parts other than those found on a later production box stock Slot-it Group C car of the same or similar prototype may be used. No material may be added or removed to allow such fitment. The onus of proof is with the racer.

Front axle grub screw for height adjustment are allowed.
Motor may be glued and or screwed to pod.
Suspension systems are not permitted.
- 7.5 - Gears - Stock gears as supplied with car: Yellow Crown 28 tooth, pinion must be 9 tooth brass.
- 7.6 - Axles - Solid steel axles only, no hollow axles permitted.
- 7.7 - Axle Bearings – Stock or upgraded as per 7.4, may be glued in place.
- 7.7a - Front and rear axle spacers may be used.
- 7.8 - Ballast – Ballast is permitted as per 4.5
- 7.8a - Bracing is not permitted
- 7.9 - Guide Flag - Stock or upgraded as per 7.4
- 7.9a - Braids and lead wires are free.
- 7.10 - Wheels - Stock Slot-it Aluminium wheels on rear (with inserts), air system permitted. No magnesium wheels permitted. Front wheels must be stock plastic to match what came with that car.
- 7.11 - Rear Tyres - Any black rubber Slot it Tyre, must be able to be identified as a Slot it Tyre.
- 7.12 - Front Tires - Any black rubber Slot it front Tyre, must be able to be identified as a Slot it Tyre.
- 7.13 - Tyre Dimensions – Front tire diameter may vary across section of tyre, but minimum diameter at largest point must be 18.0 mm. No tire, front or rear, is to have less than 8.0 mm width.
All tires must be black or very dark grey in colour.
- 7.14 - Lightening – Lightening of any description, including interiors is not allowed.
Removal of any internal parts is not permitted and all parts must be used when assembling white kits.
- 7.15 - Interior – Interior must be stock and complete, no lightweight interiors permitted.
- 7.16 - Tear Proof Parts - May be used - must be genuine Slot-it parts.
- 7.17 - Motor Type – The following Slot-it motors comply: Slot.it MX16 & (MX16-m) Motor V12/4 23K RPM 170g/cm
- 7.18 - Motor must be in the stock inline configuration. Motor must remain sealed. The spark quencher circuit board may be removed. No other modifications permitted.
- 7.19 - Eligible Cars – May use any car listed in the current RTR Group C car list, body must remain stock standard as per manufacturer except for white kits as provided for in 5.8

No other modifications are allowed. The racer is responsible for their car.

K8. NSR CLASSICS

This is a race for NSR brand classic sports cars. Ford GT40, Ford Mk IV, Ford P68, Porsche 917K, Porsche 908 and Porsche 917/10.

- 8.1 - Rims must be the same size as what comes with the car, ie: the same width and diameter, and must be aluminium and NSR brand.
- 8.2 - All 4 tires must still have the NSR logo on at least one side and be black or very dark grey in colour.
- 8.3 - Gluing of front and rear tires to rims to enable truing is permitted.
- 8.4 - The front tires may be tapered and or coated with clear nail varnish or clear super glue to reduce friction.
- 8.5 - All wheels must have NSR classic inserts fitted.
- 8.6 - Wheel inserts may be narrowed but must look complete when in place.
- 8.7 - Stock classic factory NSR chassis (black) only.
- 8.8 - Stock classic factory NSR motor pod (red, orange, or black) only.
- 8.9 - Any NSR clip in or screw in guides and guide spacers may be used.
- 8.10 - Front axle height adjusting screws may be used if chassis has this option.
- 8.11 - Axle bushes may be glued to the motor pod. No ball bearings or offset bearings allowed.
- 8.12 - Sticky tape may be fitted to the motor pod and chassis to dampen movement.
- 8.13 - NSR suspension kits may be fitted.
- 8.14 - All cars must use NSR 11-32 metal gears.
- 8.15 - Axles may be replaced and spacers may be used.
- 8.16 - Axles must be solid steel and remain completely round.
- 8.17 - Lead may be fitted to the motor pod, chassis and or body but must remain inside the car so that it can't be touched when marshalling the car (magnet holders may be removed).
- 8.18 - Only the 20K and 21.5 Shark or EVO motors may be used, motors can be glued and or screwed in position.
- 8.19 - The motor shaft may be trimmed for clearance.
- 8.20 - Bodies, driver/interiors and chassis must remain complete.
- 8.21 - Complete full interior must be used. Must be stock interior only; no lexan or vacuum formed interiors allowed
- 8.22 - White kit cars may be used but they must look period correct.
- 8.23 - Minimum weight of each car is 80gms, during and after each race.
- 8.24 - No other modifications and/or tweaks are permitted.
- 8.25 - Minimum front tire width is 8mm.
- 8.26 - Rear tires may be cleaned and or treated with oil or fuelite.
- 8.27 - Wheels and tires must not protrude past the bodywork when viewed from above.
- 8.28 - No washers or any other material may be used between the pod and the chassis as this changes ride height.

The chief scrutineer has final say of any interpretation of the car rules.

Any car may be re-scrutineered at any time during this event.

The body may be removed for further inspection.

The onus is on the driver to make sure their car fits the car rules.

K9. MUSCLE CAR

MUSCLE CARS - (Typically medium to large two door vehicles with V8 engines, from the 1960's and 1970's) Not limited to this list.

Chevrolet Camaro, Chevrolet Chevelle, Dodge Challenger, Ford Falcon, Ford Mustang, Holden Torana, Plymouth AAR Cuda, Cougar XR7, AMC Javelin, '77 Pontiac Trans Am, Dodge Charger, Dodge Charger Daytona, Ford Galaxie 500, Ford Gran Torino, Ford Torino Talladega, Plymouth Roadrunner, Plymouth Superbird, Pontiac GTO.

- 9.1 - General Specifications – Must comply with all General Car specifications K1 – K5 inclusive, or variations below.
- 9.2 - The Chassis must be plastic type material and be commercially available.
Chassis may be modified to allow fitment of a motor pod.
Chassis may be trimmed to allow pod and or body float.
Chassis may have front axle adjustable mounting blocks fitted.
Holes to allow access to front axle height adjustment screws are permitted.
Motor pod may have magnet locating clips removed.
- 9.3 - Axles, Axle Bearings and Gears – Free.
- 9.4 - Ballast and Bracing – Free.
- 9.5 - Bodies may not have modified wheel arches.
- 9.5 a - Cars may not be lowered, all cars must have normal body height.
- 9.5 - Body Lightening – Body lightening is permitted.
- 9.6 - Interior – Lightweight interiors may be used but must cover all chassis components and be complete with a dash.
- 9.7 - Paint Livery - Must appear stock except for white kits as provided for in 5.8.

- 9.8 - Paint Livery - Repainting or alteration of original paint/livery is permitted providing they look the part.
- 9.9 - Wheels and Tires - As per general RTR specifications. Must have suitable appearing wheels/inserts.
- 9.10 - All tires must be black or very dark grey in colour.
- 9.11 - Motor Type – Any RTR motor that is rated 22,000 rpm or less. May be short or long can.

K10. GT

GT - Cars that raced in FIA GT1, GT2 and GT3 series from 1997 onward, open to any brand, JGTC are omitted as they race in their own category in full size. Any GT car from an official FIA series from 1997 onwards is eligible – not limited to the list. Future cars will be allowed to run – for example the Corvette CR8 or McLaren 720S will be eligible.

Ascari KZ1, Aston Martin DBR9, Aston Martin Vantage, Audi R8 GT3, BMW M3 GTR, BMW Z4 Coupe, BMW M6 GT3, Bugatti EB110, Callaway C12, Corvette C5, C5R, C6, C6R, C7R etc, Dodge Viper, Ferrari 355, Ferrari F360, Ferrari F40, Ferrari F430, Ferrari F50, Ferrari 550 GTS Maranello, Ferrari 575 GTC, Ford GT, Heuliez Pregunta, Jaguar XJ220, Jaguar XKRS, Lamborghini Diablo, Lamborghini Gallardo, Lamborghini Murcielago GSR, Lamborghini Huracan GT3, Lister Storm, Lotus Elise GT1, McLaren F1, McLaren F1 GTR, Marcos LM 600, Maserati Coupe Cambiocorsa, Maserati MC12, Mercedes Benz CLK GTR, Mercedes Benz SLS GT3, Mosler MT900R, Nissan R390, Peugeot 406 coupe silhouette, Porsche 997, Porsche 911 GT3, Porsche 996, Porsche 911 GT2, Porsche 911 GT1Evo, Porsche GT1 98, Saleen S7R, Seat Cupra GT, Toyota GT1, TVR Tuscan, TVR Speed 12, Venturi 400 – 600,

- 10.1 - General Specifications –
Must comply with all General Car specifications K1 – K5 inclusive, or variations below.
- 10.2 - Chassis Type – Any RTR plastic chassis.
- 10.3 - Chassis Hacking – Non-podded cars may alter the chassis to allow fitment of pods, motors and or axle assembly (i.e. bearings, axle and gear). Body mounting holes and/or posts must remain in original position.
- 10.4 - Motor Mounting - Any motor mount, or suspension combination is permitted.
- 10.5 - Axles, Axle Bearings and Gears – Free.
- 10.6 - Ballast and Bracing – Free.
- 10.7 - Body Lightening – Body lightening is permitted.
- 10.8 - Interior - Lightweight and vac formed interiors are permitted.
- 10.9 - Paint Livery - Must appear stock except for white kits as provided for in 5.8.
- 10.10 - Wheels and Tires - As per general RTR specifications.
- 10.11 - Motor Type – Any “RTR type” motor may be used.
- 10.12 - Eligible cars – see list above.

K11. THUNDERSLOT

This is a race for NSR brand classic sports cars. Lola T70 GT and Spyder, McLaren M6 and Elva, Ferrari 350.

- 11.1 - Only Thunderslot rims can be used, either aluminium or plastic.
- 11.2 - Any black Thunderslot rubber tires are permitted (Silicones are not permitted).
- 11.3 - Gluing of front and rear tires to rims to enable truing is permitted.
- 11.4 - The front tires may be tapered and or coated with clear nail varnish or clear super glue to reduce friction.
- 11.5 - All wheels must have Thunderslot Classic Sports Car inserts fitted.
- 11.6 - Wheel inserts may be narrowed but must look complete when in place.
- 11.7 - Stock classic factory Thunderslot chassis (black) only.
- 11.8 - Stock classic factory Thunderslot motor pod (black) only.
- 11.9 - Any Thunderslot clip in or screw in guides and guide spacers may be used.
- 11.10 - Front axle height adjusting screws may be used if chassis has this option.
- 11.11 - Axle bushes may be glued to the motor pod.
- 11.12 - Sticky tape may be fitted to the motor pod and chassis to dampen movement.
- 11.13 - Thunderslot suspension kits may be fitted.
- 11.14 - All cars must use 11-32 gears. Spur gear must be Thunderslot, and the original Thunderslot plastic pinion must be retained.
- 11.15 - Axles may be replaced with steel axles only, and spacers may be used.
- 11.16 - Axles must be solid and remain completely round.
- 11.17 - Lead may be fitted to the motor pod, chassis and or body but must remain inside the car so that it can't be touched when marshalling the car (magnet holders may be removed).
- 11.18 - Only the Thunderslot Mach 21.5 motor may be used, motors can be glued and or screwed in position.
- 11.19 - The motor shaft may be trimmed for clearance.
- 11.20 - Bodies, driver/interiors and chassis must remain complete. Stock interior only, no lexan or vacuum formed interiors allowed.
- 11.21 - Complete full interior must be used.
- 11.22 - White kit cars may be used but they must look period correct.
- 11.23 - Minimum weight of each car is 80gms, during and after each race.
- 11.24 - No other modifications and/or tweaks are permitted.
- 11.25 - Minimum front tire width is 8mm.
- 11.26 - Rear tires may have Thunderslot foam inners inside the rear tires.
- 11.27 - Rear tires may be cleaned and or treated with oil or fuelite.
- 11.28 - Wheels and tires must not protrude past the bodywork when viewed from above.
- 11-29 No washers or any other material may be used between the pod and the chassis as this changes ride height.

The chief scrutineer has final say of any interpretation of the car rules.

Any car may be re-scrutineered at any time during this event.

The body may be removed for further inspection.

The onus is on the driver to make sure their car fits the car rules.

K12. CLASSIC F1

The Classic F1 class is a combined class for NSR F1 cars and Scaleauto F1 cars as per the following rules for each brand.

K12A. NSR F1

NSR brand formula 86/89 F1 cars.

- 12.1 - Rims must be the same size as what comes with the car, same diameter and same material, ie aluminium
- 12.2 - All 4 tires must still have the NSR logo on at least one side and be black or very dark grey in colour.
- 12.3 - Gluing of front and rear tires to rims to enable truing is permitted.
- 12.4 - The front tires may be tapered and or coated with clear nail varnish or clear super glue to reduce friction.
- 12.5 - All wheels must have NSR F1 inserts fitted.
- 12.6 - Wheel inserts may be narrowed but must look complete when in place.
- 12.7 - Stock classic factory NSR chassis (black) only.
- 12.8 - Stock classic factory NSR motor pod (red) only.
- 12.9 - Any NSR clip in or screw in guides and guide spacers may be used.
- 12.10 - Front axle height adjusting screws may be used if chassis has this option.
- 12.11 - Axle bushes may be glued to the motor pod. Bearings or axle tubes are not permitted.
- 12.12 - Sticky tape may be fitted to the motor pod and chassis to dampen movement.
- 12.13 - NSR suspension kits may be fitted.
- 12.14 - All cars must use NSR 10-27 gears.
- 12.15 - Axles may be replaced and spacers may be used.
- 12.16 - Axles must be solid and remain completely round. Steel axles only. No hollow axles.
- 12.17 - Foam inserts are allowed
- 12.18 - Lead may be fitted to the motor pod, chassis and or body but must remain inside the car so that it can't be seen from above (magnet holders, flashing may be removed).

- 12.19 - Only the NSR King 21,400 Evo (Pink) – (NSR3023) motor may be used, motors can be glued and or screwed in position.
- 12.20 - The motor shaft may be trimmed.
- 12.21- Bodies, driver/interiors and chassis must remain complete, driver's helmet may be replaced (any brand).
- 12.22 - Complete standard full interior must be used – the same interior and material that comes with the car is to be used – lexan and/or vacuum formed etc are not permitted
- 12.23 - Maximum weight of each car is 90gms, during and after each race.
- 12.24 - Minimum front tire width is 8mm.
- 12.25 - The front and rear width may not be wider than what the car is box standard
- 12.26 - Rear tires may be cleaned and/or treated with oil or fuelite, nothing else
- 12.27 - Chassis and body must remain complete – ie no material is to be removed

The chief scrutineer has final say of any interpretation of the car rules.

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The body may be removed for further inspection.

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K12B. Scaleauto F1

Scaleauto Formula 90-97 F1 cars.

- 13.1 - Low Nose or High Nose permitted
- 13.2 - Gear ratio, Scaleauto 10T pinion and 26T crown, Inline gears
- 13.3 - Front and Rear wheels must be the same size – ie diameter and width remain what comes with the car, and no material is to be taken away. All wheels must be metal.
- 13.4 - All four tyres must be able to be identified as Scaleauto F1 tyres – no other brand of tyres are permitted.
- 13.5 - Wheels inserts may be narrowed, but must look complete when in place.
- 13.6 - Rubber tyres must be used – no foam sponge or silicone tyres.
- 13.7 - Tyres may be glued and/or trued
- 13.8 - Minimum front tyre width is 8mm
- 13.9 - Front and rear width may not be wider than what the car is box standard
- 13.10 - Foam inserts are allowed
- 13.11 - Tyres must be black or very dark grey in colour
- 13.12 - Scaleauto spherical bushes that come with the car are to be used. No axle tubes or other bearings permitted.
- 13.13 - Axles must be solid and remain completely round. Hollow axles are not allowed. Steel axles only.
- 13.14 - Only the long can Scaleauto 21,500rpm SC-0025b motor may be used. The motor shaft may be trimmed. No other modifications to the motor are allowed. Motor must remain completely sealed.
- 13.15 - Box standard chassis is to be used with its appropriate body.
- 13.16 - Scaleauto inline motor mount .5 offset SC-6523C is the only motor mount allowed.
- 13.17 - Only one Scaleauto guide that is red, clip in or screw in, is allowed.
- 13.18 - Braid, lead wires, screws and guide spacers are free.
- 13.19 - Lead may be fitted to the motor pod, chassis and/or body but must remain inside the car so that it can't be seen from above (magnet holders, flashing may be removed).
- 13.20 - Scaleauto spring kits are permitted, no other brands, any configuration.
- 13.21 - Tape may be used on the chassis to dampen movement.
- 13.22 - Bodies, driver/interiors and chassis must remain complete, driver's helmet may be replaced (any brand). The stock rear wing and mirrors are to be used, no flexible parts to be used. the same interior and material that comes with the car is to be used – lexan and/or vacuum formed etc are not permitted.
- 13.23 - Maximum weight of each car is 90gms, during and after each race.
- 13.24 - Chassis and body must remain complete – ie no material is to be removed

The chief scrutineer has final say of any interpretation of the car rules.

Any car may be re-scrutineered at any time during this event.

The body may be removed for further inspection.

The onus is on the driver to make sure their car fits the car rules.