

RTR 2017

(J) RTR CLASS RULES

J1. CLASSES

RTR NZSCA Championship meetings are run for the following four Classes, competitors may compete in as many classes as they choose:

- Slot-it Group C
- NSR Classics
- Muscle Car
- GT

(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 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. The guide must be black or of a colour capable of detection for lap counting purposes.

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 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.
Use of an adjustable wheelbase type chassis is not permitted in any RTR class. (HRS, Scale Auto etc).

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 2017

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

(NOTE there is no K6 –that class has been deleted)

K7. SLOT IT GROUP C

This is for 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.

Lancia LC2/LC2-85, Mazda 787B, Porsche 956 and 962 all variants, Sauber C9 Mercedes, Jaguar XJR6, 9 and 12, Toyota 88C, Nissan R89C.

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 Slot.it chassis must have "filler pieces" installed if pod leaves any gaps when fitted. Generally this will be any pod except angle-winder.

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 racer.

Front axle grub screw for height adjustment allowed.
Motor may be glued to pod.
EVO motor mounts and suspension systems are not permitted.

7.5 - Gears - Stock gears as supplied with car, no ratio changes permitted.

7.6 - Axles - Solid axles only, no hollow axles permitted.

7.7 - Axle Bearings – Stock or upgraded as per 7.4

7.8 - Ballast – Ballast is permitted as per 4.5

7.8a – Bracing - Bracing is not permitted

7.9 - Guide Flag - Stock or upgraded per 7.4

7.10 - Wheels - Stock Slot-it aluminium wheels on rear with inserts, no magnesium wheels permitted. Front wheels must be stock plastic wheels to match rear wheel inserts.

7.11 - Rear Tyres – Slot-it N22 is the controlled tire for this class. Any size Slot.it N22 tyre with a maximum width not exceeding 11.3mm. Each tyre must be visibly marked with Slot.it N22.

7.12 - Front Tyres - Any 19x10 Slot.it tyres, must be visibly marked Slot.it. Diameter may vary across section of tyre. Zero grips are allowed. Front tyres may be coated. In some cases the tyre width may be trimmed to clear the body.

7.13 - Tyre Dimensions – Front tyre diameter may vary across section of tyre, but minimum diameter at largest point must be 18.0 mm. No tyre, front or rear, is to have less than 9.0 mm tread width.

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 - Slot.it orange end bell 21,500 rpm or current version motor V12/4 23,000 rpm light brown end bell in the stock inline configuration. Motor must remain sealed. No modifications permitted.

7.18 - 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

K8. NSR CLASSICS

This is a classic sports race car for NSR brand cars only

Ford GT40, Ford Mk IV, Ford P68, Porsche 917K (Possibly a new car soon?)

- 8.1 - General Specifications** – Must comply with all General Car specifications K1 – K5 inclusive, or variations below.
- 8.2 - Chassis Type** – Any NSR motor mount, chassis and suspension combination is permitted. This overrides general rule 4.6
- 8.3 - Axles, Axle Bearings and Gears** – Must be NSR 11 pinion and 32 tooth spur gear. Front axle support method is free.
- 8.4 - Ballast** – Free – as per rule 4.5
- 8.5 - Bracing** – Not permitted.
- 8.6 - Guide** – Must be NSR.
- 8.7 - Body Lightening** – Not permitted.
- 8.8 - Interior** – The original may not be lightened. No Lexan or 'lightweight' interiors.
- 8.9 - Paint Livery** – Repainting or alteration of original paint/livery is permitted providing they look the part.
- 8.10 - Wheels** – Stock size NSR alloy wheels as supplied with car or a direct replacement.
- 8.11 - Tyres** – Any NSR tyres permitted. NSR must be clearly visible on the tyres. Coating of the front tyres is permitted.
- 8.12 - Motor Type** – Only stock NSR 20K. Motor must remain sealed. No modifications permitted.
- 8.13 - Eligible Cars** – May use any car listed in the current body list for this class.

K9. MUSCLE CARS

Typically medium to large two door vehicles with V8 engines, from the 1960's and 1970's – any plastic chassis/body RTR brand is acceptable

Chevrolet Camaro, Chevrolet Corvette L88, Dodge Challenger, Dodge Charger, Dodge Charger Daytona, Ford Falcon, Ford Galaxie 500, Ford Thunderbird, Ford Gran Torino, Ford Torino Talladega, Ford Mustang, Holden Torana, Plymouth AAR Cuda, Plymouth Roadrunner, Plymouth Superbird, Plymouth Fury, Cougar XR7, Pontiac GTO, Shelby Cobra, AMC Javelin.

- 9.1 - General Specifications** – Must comply with all General Car specifications K1 – K5 inclusive, or variations below.
- 9.2 - Chassis Type** – Any RTR plastic chassis.
- 9.3 - Axles, Axle Bearings and Gears** – Free.
- 9.4 - Ballast and Bracing** – Free.
- 9.5 - Body Lightening** – Body lightening is permitted.
- 9.6 - Interior** – Lightweight and Lexan interiors are permitted.
- 9.7 - Paint Livery** – Must appear stock except for white kits as provided for in 5.8.
- 9.8 - Wheels and Tyres** – As per general RTR specifications. Must have suitable appearing wheels/inserts.
- 9.9 - Motor Type** – Any RTR motor may be used provided it is not a strap motor, and it does not generate any greater magnetic down force than 30 grams.
- 9.10 - Eligible Cars** – May use any car listed in the current RTR body list for this class.

K10. 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 plastic chassis/body RTR brand acceptable

Ascari KZ1, Aston Martin DBR9, Aston Martin Vantage, Audi R8 GT3, BMW M3 GTR, BMW Z4 Coupe, 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, 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 Tyres - As per general RTR specifications.

10.11 - Motor Type – Any RTR motor may be used provided it is not a strap motor, and it does not generate any greater magnetic down force than 30 grams.

10.12 - Eligible cars– May use any car listed in the current RTR body list for this class.