

North Harbour Mini 4WD 2019 Race Classes And Regulations

N1 (Box Class)



- Cars must be built from Tamiya car kits as per the in-box instructions
- All parts must be from the same kit or identical to the original kit. Swapping parts from other kits (eg wheels, tyres, rollers) is not permitted
- No “Evo” or “Starter Kits” allowed.
- Gear ratio change is permitted. Only standard gearbox ratios allowed
- No chassis modifications, this includes heating, bending, cutting, addition of suspension or any other modifications that change the chassis from the manufactured original. *Use of glue for reason of repair is acceptable, not for reason of modification or strengthening.*
- Bodies must be securely attached using the factory attachments
- Polycarbonate bodies must be cut to original cut lines.
- Bodies must be painted OR stickered OR both.
- No upgrade parts (plates, rollers, dampers, bearings, bushings) allowed.
- Tyres must be the original kit tyres
- No cut/trimmed tyres.
- Motors allowed are Standard 130 type ONLY.
- “GT” kits or other kits that come with upgraded motors CAN be raced but ONLY if the motor is exchanged to a standard 130 type (single or double shaft)
- No modifications to the motors are allowed.
- Batteries Must be AA size - NiMH (1.2v) or Alkaline (1.5v) with a maximum capacity of 2600mAh. (eg Panasonic Eneloop, Eneloop Pro, Tamiya NeoChamp are suitable)
- Measuring - All Mini 4WD cars must be within the measurement ranges as set by Tamiya (all box cars should already meet these criteria):
 - Max length: 165mm
 - Max width: 105mm
 - Max height: 70mm
 - Minimum ground clearance: Over 1mm from flat surface
 - Tire diameter: 22 to 35mm for both front and rear tires attached to the wheels.
 - Tire width: 8 to 26mm for both front and rear tires attached to the wheels.
 - Minimum weight: Over 90g, with battery attached.
- Current (Dec 2018 - <https://www.tamiya.com/english/mini4wd/regulation.htm>) Tamiya Mini4WD racing regulations apply unless otherwise stated here
- The decision of, and interpretations of these rules by, NHM4WD race officials (including race controllers, scrutineers and other officials) is final.



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N2 (Modified Box Class)



- Tamiya or 3rd Party parts are allowed.
- No bearings are permitted, including roller bearings, wheel bearings, gear or motor bearings.
- Plastic or brass bushings only are permitted in the axle mounts. *Tamiya 94381 "AO-1002 Metal Bearing Set" (or 3rd party "Spring Caps") are allowed, however Tamiya 15393 "Flourine Coated Steel Bearings are prohibited*
- No modification to any of the gear set.
- Only standard gearbox ratios allowed
- Cars must be built from Tamiya car kits or from Tamiya chassis packs.
- No chassis modifications, this includes heating, bending, cutting, addition of suspension or any other modifications that change the chassis from the manufactured original. *Use of glue for reason of repair is acceptable, not for reason of modification or strengthening.*
- Bodies must be securely attached to at least 2 points and unable to swing or hinge freely during racing.
- Minor body modifications for fitment is acceptable, eg, to fit a body to a chassis it isn't designed for. *Only modifications to allow fitment between body and chassis are allowed, no lightening or modification of factory design*
- Polycarbonate bodies must be cut to original cut lines.
- Bodies must be painted OR stickered OR both.
- Carbon or FRP is open for use, this may be cut or modified.
- Dampers may only be used in a fixed or bolt sliding system
- No body dampers, hanging dampers, "car catcher" type flexible dampers or any other dampening system that swings, *Tamiya part number 15478 is exempt but must be used as per standard design using only the parts supplied in the kit.*
- Tyres may be mis-matched in compound or style.
- No cut/trimmed tyres. *Tyres can be "trued" (eg sanded) to remove imperfections or high spots but any modifications designed to change the diameter or shape/profile of the tyre may be deemed illegal by race officials.*
- Chassis must be used in the direction of travel they were originally designed for.
- Motors allowed are Standard 130 type, Rev/Atomic/Torque tuned, Light/Hyper Dash only.
- No modifications to the motors are allowed.
- Batteries Must be AA size - NiMH (1.2v) or Alkaline (1.5v) with a maximum capacity of 2600mAh. (eg Panasonic Eneloop, Eneloop Pro, Tamiya NeoChamp are suitable)
- Measuring - All Mini 4WD cars must be within the measurement ranges as set by Tamiya:
 - Max length: 165mm
 - Max width: 105mm, with all parts attached
 - Max height: 70mm, with spoilers and parts attached
 - Minimum ground clearance: Over 1mm from flat surface
 - Tire diameter: 22 to 35mm for both front and rear tires attached to the wheels.
 - Tire width: 8 to 26mm for both front and rear tires attached to the wheels.
 - Minimum weight: Over 90g, with battery attached.
 - Rollers: Unlimited (2018 special rule)
 - In addition, the roller stays should not extend past the front and rear axles.
- No modifications that may damage or contaminate the track (eg with oil or grease).
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Pro Class



- Tamiya or 3rd Party parts are allowed.
- Bearings are permitted, including roller bearings, wheel bearings, gear or motor bearings.
- Only standard gearbox ratios allowed
- Cars must be built from Tamiya car kits or from Tamiya chassis packs.
- Chassis modifications permitted
- Body must be fitted and original style must be identifiable
- Bodies must be painted OR stickered OR both.
- Carbon or FRP is open for use, this may be cut or modified.
- Tyres may be mis-matched in compound or style or cut/trimmed
- All Tamiya Mini4WD motors permitted
- No modifications to the motors are allowed.
- Batteries Must be AA size - NiMH (1.2v) or Alkaline (1.5v) with a maximum capacity of 2600mAh. (eg Panasonic Eneloop, Eneloop Pro, Tamiya NeoChamp are suitable)
- Measuring - All Mini 4WD cars must be within the measurement ranges as set by Tamiya:
 - Max length: 165mm
 - Max width: 105mm, with all parts attached
 - Max height: 70mm, with spoilers and parts attached
 - Minimum ground clearance: Over 1mm from flat surface
 - Tire diameter: 22 to 35mm for both front and rear tires attached to the wheels.
 - Tire width: 8 to 26mm for both front and rear tires attached to the wheels.
 - Minimum weight: Over 90g, with battery attached.
 - Rollers: Unlimited (2018 special rule)
 - In addition, the roller stays should not extend past the front and rear axles..
- No modifications that may damage or contaminate the track (eg with oil or grease).
- Current (Dec 2018 - <https://www.tamiya.com/english/mini4wd/regulation.htm>) Tamiya Mini4WD racing regulations apply unless otherwise stated here
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WILD Mini Class



- Tamiya or 3rd Party parts are allowed.
- Bearings are permitted, including roller bearings, wheel bearings, gear or motor bearings.
- Only standard gearbox ratios allowed
- Cars must be built from Tamiya Wild Mini car kit
- Chassis modifications permitted
- Body must be fitted and original style must be identifiable
- Bodies must be painted OR stickered OR both.
- Carbon or FRP is open for use, this may be cut or modified.
- Tyres may be mis-matched in compound or style or cut/trimmed
- All Tamiya Mini4WD motors permitted
- No modifications to the motors are allowed.
- Batteries Must be AA size - NiMH (1.2v) or Alkaline (1.5v) with a maximum capacity of 2600mAh. (eg Panasonic Eneloop, Eneloop Pro, Tamiya NeoChamp are suitable)
- No modifications that may damage or contaminate the track (eg with oil or grease).
- Current (Dec 2018 - <https://www.tamiya.com/english/mini4wd/regulation.htm>) Tamiya Mini4WD racing regulations apply unless otherwise stated here
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