

# North Harbour Mini 4WD

## 2022/23 Race Classes and Regulations



### All Classes

- Cars must be built from Tamiya car kits (or chassis packs)
- Bodies must be painted OR stickered OR both
- Only standard gearbox ratios allowed
- Rubber Tubing or Plastic Balls MUST be used to cover any protruding screw threads.
- 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:
  - Maximum Car Width: Under 105mm
  - Overall Car Height: Under 70mm
  - Overall Car Length: Under 165mm
  - Minimum Ground Clearance: At least 1mm
  - Minimum Car Weight (including batteries and motor): At least 90g
  - Front and Rear Tires: Diameter: 22-35mm, Width: 8-26mm (Note that tires must be attached.)
  - Rollers: There is no limit on the amount of rollers that can be used.
- Current (Oct 2022- <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.

### PERMITTED:

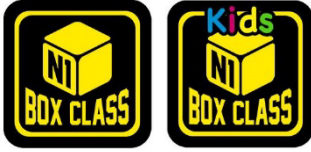
- Tamiya or 3rd Party parts are allowed at normal NHM4WD race meets

### PROHIBITED:

- NO modification to motors are allowed
- NO modifications that may damage or contaminate the track (eg with oil or grease).

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### N1 Box Class / Kids Box Class

- Cars must be built 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.
- Bodies must be securely attached using the factory attachments
- Polycarbonate bodies must be cut to original cut lines.
- Tyres must be the original kit tyres

#### PERMITTED:

- Motors allowed are Standard 130 type ONLY.
- Gear ratio change is permitted.
- "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)

#### PROHIBITED:

- NO "Evo" or "Starter Kits" 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.*
- NO upgrade parts (plates, rollers, dampers, bearings, bushings) allowed.
- NO cut/trimmed tyres.

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### N2 Open/Modified Box Class

- Bodies must be securely attached to at least 2 points and unable to swing or hinge freely during racing.
- Polycarbonate bodies must be cut to original cut lines.
- Dampers may only be used in a fixed or bolt sliding system
- Chassis must be used in the direction of travel they were originally designed for.

#### PERMITTED:

- Motors allowed are Standard 130 type, Rev/Atomic/Torque tuned, Light/Hyper Dash only.
- 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 "Fluorine Coated Steel Bearings" are prohibited*
- 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.*
- Carbon or FRP is open for use, this may be cut or modified.
- Tyres may be mis-matched in compound or style.

#### PROHIBITED:

- NO bearings are permitted, including roller bearings, wheel bearings, gear or motor bearings.
- NO modification to any of the gear set.
- 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.*
- 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.*
- 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.*

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## 2022/23 Race Classes and Regulations



### Tuned Class

- Chassis must be used in the direction of travel they were originally designed for.
- Bodies must be securely attached to at least 2 points and unable to swing or hinge freely during racing.
- Polycarbonate bodies must be cut to original cut lines.
- Dampers may only be used in a fixed or bolt sliding system
- Polycarbonate material only to be used as body and body parts, not for other uses

### PERMITTED:

- Only tuned motors are allowed, Rev/Atomic/Torque tuned only.
- Bearings are permitted, including roller bearings, wheel bearings, gear or motor bearings.
- 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.*
- FRP, Carbon are allowed, but no cutting or modifications to the original installation spec (*countersinking is OK*).
- Tyres may be mis-matched in compound or style.
- Flourine shafts OK
- Rollers as stabilizers is OK

### PROHIBITED:

- 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.*
- NO cut/trimmed tyres, No Truing, shaving, sanding or modifications are allowed. (*Cleaning is OK*).
- 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.*
- NO setups where weights will hit car body.
- NO mass dampers as rollers.
- NO "floating" gears.
- NO cutting, sanding, or modification of gears
- NO wheels or weights/mass dampers as stabilizers
- Rubber Tubing may not be used for anything other than covering excess threads
- Car Catcher material not allowed.

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### Pro Class

- Body must be fitted and original style must be identifiable.

### PERMITTED:

- All Tamiya Mini4WD motors permitted Bearings are permitted, including roller bearings, wheel bearings, gear or motor bearings.
- Chassis modifications permitted.
- 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.

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### Wild Mini Class

- Cars must be built from Tamiya Wild Mini car kit.
- Body must be fitted and original style must be identifiable.

### PERMITTED:

- All Tamiya Mini4WD motors permitted.
- Bearings are permitted, including roller bearings, wheel bearings, gear or motor bearings.
- Chassis modifications permitted.
- 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.