



Southern California TAMIYA MINI 4WD 2021 General Competition Rules

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1. FOREWARD

Dxn Provisions Mini 4WD events exist for the growth and development of Tamiya Mini 4WD racing. The following rules and regulations have been created to promote and maintain good sportsmanship, equal opportunity and fair play. Many different types of racing classes exist in order to cater to all levels of racers. If you have any trouble understanding any of the rules, feel free to reach out to us.

2. Tamiya Mini 4WD Official Rules

PARTS

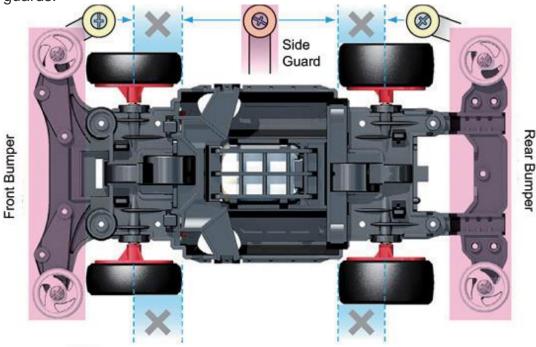
Official Tamiya Mini 4WD, R/C Mini 4WD, and Dangun Racer parts ONLY

BATTERIES

- Rechargeable batteries OK (1.2v-1.5v NiMH or NiCad)
- 1.5v Dry Cell Alkaline batteries
- No Lithium Dry Cell or Lithium Polymer batteries allowed
- NO charging of Alkaline batteries (putting alkaline cells in a NiCad/NiMH charger)

BUMPER & CHASSIS SETUP

- Parts which extend around the outside of the wheels to completely frame the chassis are not allowed.
- Parts attached to the front bumper cannot extend past the line of the front axle.
- Parts attached to the rear bumper cannot extend past the line of the rear axle.
- Parts attached to the side guards must remain within the lines shown: (back edge
 of Front Tire & front edge of Rear Tire)
- Chassis: Extension parts which are attached to the chassis itself are subject to the same zone restrictions as similar parts attached to the bumpers or side quards.



- There are no rules for parts which pass above or within the outside edges of the tires.
- There are no rules for mounting rollers, etc. to the body as long as they are above the level of the wheel axles. If they extend below this line, they will be subject to the same limits as parts which are attached to side guards.

WEIGHT & DIMENSIONS

Width Length



Height

Ground Clearance



Under 105mm inparts

Under 165mm in- Under 70mm includcluding all attached cluding all attached parts

ing wing

Over 1mm surface.

Over 90g weight clearance from flat w/Motor & Batteries

Setting gauge cannot contact brake pads or any other parts of the car

ROLLERS

- No limit to number of rollers (Tuned & Open Classes)
- O-ring rollers are required to have o-rings in place.
- Stylized rollers OK (rollers cut for design, anodized, and/or dyed)

TIRES & WHEELS

Tire Diameter: Must be between 22mm and 35mm in diameter

<u>Tire Width:</u> Must be between 8mm and 26mm of tire material per wheel

- NO modifying the properties of the tire material
- NO additives, adhesives, lubricants, or tire dressing allowed on tire surface
- Glue / adhesive to secure tire to wheel OK (any class)
- Any adhesive used to secure tire to wheel must be dry before set on track

GEARING & DRIVETRAIN

- Must be 4WD
- Must be installed according to set gear ratio (Appendix A)
- Must be original type of gear to chassis. (Example FM-A uses the orange crown gear, cannot use pink or carbon crown gears.)

TECH INSPECTION

Tech Inspection Officials have the final say on what does or does not pass inspection. Tech Inspection Officials will always do their best to work with racers to correct any found issues, and ultimately it is the racer's responsibility to make sure their Mini 4WD machine matches the rules.

3A. Box Stock

Box Stock Class is meant as an entry-level class for beginners. It combines basic kit building skills with a bit of luck, depending on the track layout. The intention is for racers to build the Stock Kit using only the parts that are included in the 0kit. No trimming or modifying of any parts is allowed except what is necessary to complete the car as it looks on the Box Cover. Not all parts are required to be used.

Box Stock Class Parts Rules

 Kit: Any Kit No modification of chassis allowed Kit can only be assembled with parts that are included in the box. Plastic Bushings only, no bearings 	 Batteries: Alkalines only 1.5V Alkaline Batteries Only NO charging Alkaline Batteries Any brand of Alkaline Batteries OK
Stock Kit body only Racers may choose to not install all body parts Application of at least two decals are required	 Motor: Stock Motor Stock Motor (White End Bell) NO tuning of the stock motor allowed
Hardware: ONLY hardware that came with the Stock Kit may be used	MUST use gears that came with the Stock Kit No shimming allowed (washers, spacers, etc) No cutting, sanding, or modification of gears

- ❖ Starter Kit, Evo Kit and other Kits featuring hop-up items are not allowed
- ❖ GT Animal Kits OK if motor is changed to Stock Motor

Note:

Greasing Roller screws OK	Greasing Gears OK
Paint is Optional	MUST install two decals at minimum

3B. Tuned Class

Tuned Class provides a race classification that allows younger racers to compete toe to toe with older, more seasoned racers. The spirit of Tuned Class is to provide a more level playing field between intermediate racers and advanced racers. If you choose to race in Tuned Class, please keep in mind this "Spirit of Tuned Class." In other words, if a younger racer (16 years old or younger) can't do what you're doing to your car, it's not in the "Spirit of Tuned Class." Race officials have final say as on what modifications are in the Spirit of Tuned Class.

Tuned Class Parts Rules

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 Chassis: Any chassis No Cutting of chassis whatsoever No drilling of chassis Body: Any body type, plastic or polycarbonate Minor trimming to accommodate weights OK NO major trimming or modification allowed Application of at least two decals are 	Motor: Torque, Rev, or Atomic Tuned motors only NO Zen Tuned Mass Dampers: NO body dampers NO hanging dampers NO setups where weights will hit car body NO mass dampers as rollers We will now allow, no-cut body dampers.
required Wheels: Any diameter Any material Piercing OK No modifying or cutting wheels	Gears: ■ Bearings OK in original sized bearing holes ■ No "floating" gears ■ No cutting, sanding, or modification of gears ■ Fluorine shafts OK
 Stays: Plastic, FRP, Carbon, and Aluminum OK No cutting, trimming, sanding, or modifying Countersinking OK 	 Hardware: Any Tamiya hardware Screws in front and rear of the chassis are required to be countersunk, or hidden
Tires: Any compound OK No tire shaving No "truing", shaving, or sanding of tires No tire dressing or additives Cleaning OK	Stabilizers: Off-the-shelf stabilizers OK Unmodified crown gears OK Rollers as stabilizers OK NO wheels as stabilizers NO weights are stabilizers

- ❖ Rubber Tubing or Plastic Balls MUST be used to cover any protruding screw threads
- ❖ Rubber Tubing may not be used for anything other than covering excess threads
- Car Catcher material is now allowed
- Polycarbonate material can be used for anything.

3C. Open Class

Open Class is meant as a platform for unlimited tuning and creativity. Open Class competitors are encouraged to use their technical and creative skills to master the everchanging obstacles found in various Mini 4WD track layouts. Rules for this class change as they would in Japan, the concept behind following Tamiya Japan's rules is that if you can build your car to those specs in the United States, your car will be qualified to race in Japan as well. Go fast, don't crash!

Open Class Parts Rules

 Tires: Any tire compound OK Modifying tire shape OK Modifying tire size OK 	 Stays: Any material OK Can be modified and trimmed Must show some of original Tamiya markings
 Any body type, plastic or polycarbonate Must have at least 15% of body in tact Must be painted (or completely covered with decals) Application of at least two decals are required 	 Gears: Removing material for weight OK Removing material for fitting bearings OK

Motors:

Rev Tuned, Torque Tuned, Atomic Tuned, Light Dash, Sprint Dash, Power Dash, Mach Dash, Hyper Dash

NO ZEN Tuned, Jet Dash, Plasma Dash, or Ultra Dash

❖ Rubber Tubing or Plastic Balls MUST be used to cover any protruding screw threads

3D. High Speed Races (Tuned & Open Class)

High Speed races (Tuned & Open) take place on relatively flat courses without jumps or major obstacles allowing racers to tune their machines for maximum speed! Tuned High Speed and Open High Speed follow roughly the same rules as their technical counterparts, with a few special rules listed below.

NOTE: All High Speed cars, Open & Tuned, must still comply with Tamiya Mini 4WD Official Rules

Tuned Class High Speed Specialty Rules

Body:

- Can be trimmed more aggressively than normal Tuned Class (within reason)
- Must retain 80% of body material
- Does not need to use original clip
- Must be painted (or completely covered with decals)
- Application of at least two decals are required

Stays:

- Plastic, FRP, Carbon, and Aluminum OK
- No cutting, trimming, sanding, or modifying, including plastic parts
- Countersinking OK

Open Class High Speed Parts Rules

 Tires: May use trimmed tires Must have at least 8mm width of tire material on each wheel No requirement for contact patch size 	Stays:Same as normal Open Class
 Any body type, plastic or polycarbonate Must have at least 15% of body in tact Must be painted (or completely covered with decals) Application of at least two decals are required 	Gears:Same as normal Open Class

Tuned and Open Class Motor Rules

Motors: Tuned Motors ONLY

- Rev Tuned, Torque Tuned, & Atomic Tuned only
- NO ZEN Tuned
- Rubber Tubing or Plastic Balls MUST be used to cover any protruding screw threads



Mini 4WD Grade-Up Parts Matching List

Gear Ratios		FM-A	Type 2	Type 3	Type 4	Zero	FM	Type 5	Super-1	Super-II	Super FM	Super TZ	Super X	Super XX	VS	Super TZ-X	AR	MS	MA		
Gear Ratio	Counter Gear	Spur Gear										X	Z		×		X-Z				
3.5 : 1	G17 Light Blue	C10 Valley	•								•		•	•	•	•	•	•			※ 5
3.7 : 1	G24 Green	G18 Yellow	•								•		•	•	•	•	•	•			% 6
4:1	G14 Black	C11 Light	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•			% 7
4.2 : 1	G9 Red	G11 Brown	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•			※ 7
5 : 1	G10 Blue	G6 Light Green	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•			
3.5 : 1	Item 1 Special Ratio Geari	5132 ng: Mustard Yellow					•		•	•											
3.5 : 1	Item 1 Lightweight Special Ra	5187 atio Gearing: Light Gray										•	•				•				
6.4 : 1 ※4	G5 Gray	Constant			•																
11.2 : 1	G4 Yellow	G3 Green			•																
5:1 ※4	G8 Purple	Light			•																
8.75 : 1	G7 Pink	G6 Green			•																
4:1 ※4	G12 Mustard Yellow	G11 Light Brown			•																% 8
Crown (G2 = C	Gears Orange; G13 = Pinl	() (G2	G2	% 3	G2	G13	G2	G2	G13	G13	G2	G13	G2	G2	G13	G13	G13	_	_	※ 12
Gear Ratio	Counter Gear	Spur Gear																			
3.5 : 1	G21 Light Green																		•	•	※ 9
3.7 : 1	G23 Yellow	G22 Pink																	•	•	※ 10
4:1	G19 Blue	G20 Orange																	•	•	※ 11
8T Pinion Gear			* 2	*1																	

^{**1} Permitted gears: White, Purple, Brass, Black (kit-included) pinion gears; pinion gears from Item 15438 Reinforced Gears w/Easy Locking Gear Cover or Item 15453 Carbon Reinforced 8T Pinion Gear (6pcs.).

^{**2} Permitted gears: Black (kit-included), Brass pinion gears; pinion gears from Item 15438 Reinforced Gears w/Easy Locking Gear Cover or Item 15453 Carbon Reinforced 8T Pinion Gear (6pcs.).

^{*3} Use G2 Orange crown gear at front and G1 Light Blue crown gear at rear.

^{*4} Use 12T pinion gear.

^{*5} These gears are also paired in Item 15432 Super Speed Gear Set (for Super XX & Super-II Chassis).

^{%6} Item 15434 High Speed EX Counter Gear Set (3.7:1)

^{*7} These gears are also paired in Item 15236 High Speed Counter Gear Set.

^{*8} These gears are also paired in 15053 Competition Gear Set for Type 3 Chassis.
*9 These gears are also paired in Item 15349 Mini 4WD PRO Super Speed Gear Set (for MS Chassis).

^{*10} These gears are also paired in Item 15349 Mini 4WD PRO High Speed EX Gear Set (for MS Chassis/Gear Ratio 3.7:1).

^{*11} These gears are also paired in Item 15355 Mini 4WD PRO High Speed Gear Set (for MS Chassis/Gear Ratio 4:1).