



## **2021 RUMBLE in FORT WAYNE NON-WINGED 600 MIDGET SPECIFICATIONS**

(effective 9/5/2021)

The following specifications have been prepared by Rumble Racing LLC (known as Rumble Racing Series) as a guideline for the construction of a Non-Winged 600 Midget for the Rumble in Fort Wayne. No express or implied warranty of safety shall result from publication of, or compliance with, these rules. They are intended as a guide, and are in no way a guarantee against injury, or death, to participants, spectators, and/or others.

All cars will be inspected before qualifying. If you do not go through tech before qualifying, you will start TAIL in every event you are schedule to compete in. Cars not meeting one or more of the specifications will not be permitted to compete until required changes for compliance are met.

### **changes/additions to previous versions of these specifications are indicated in this manner**

#### **1. AGE:**

- a. The minimum age for competition in this division is 12 years old as of **December 16, 2021**. Certified copy of birth certificate and/or valid driver license may be requested from Rumble officials for proof of age of any driver.

#### **2. CLASS LIMIT:**

- a. Each car may only be entered in one class for competition at the Rumble in Ft. Wayne. Teams wishing to enter more than one class of Midget racing must have a separate car for each entry.

#### **3. ROLL CAGE:**

- a. Roll cages shall be constructed of chrome moly (or equivalent) material and must be of at least 1" x 0.062", 1-1/8" x 0.065 or 1-1/4" x 0.065" wall thickness.
- b. The front section of the cage shall be no further back than the steering wheel.
- c. Roll cage shall have sufficient fore and aft bracing and strength to support the weight of the car and driver in case of an upset.
- d. Roll cage shall have gussets at the intersecting bars to the uprights.
- e. Bends must have at least 3" radius. No square or pointed corners allowed.
- f. Roll cage must be a minimum of 3" above the driver's helmet when driver is sitting in racing position.
- g. It is mandatory to install a cross brace behind the seat to support the shoulder harness.
- h. Upright seat with straight back is mandatory. No lay down seats are permitted. Seatbacks shall have no more than 18 degrees recline from vertical.

#### **4. BUMPERS AND NERF BARS:**

- a. Cars must have a bumper extending beyond the FRONT and REAR tires. Nothing may extend beyond a tangent line from the outside edge of the tires to the bumpers. Nothing may extend beyond the outside edge of the tires or wheels, whichever is the widest.
- b. Bumpers may not have sharp corners or designs as to hook or damage another car. Bumpers - front, and rear cannot stick out past the main frame rails – if they do, the car cannot compete.
- c. All cars must be equipped with nerf bars. Nerf bars must extend to inside edge of tires, but not beyond the outside of the tire.
- d. **A straight edge will be placed along the outside of the tires, if it hits the nerf bar, it's not legal.**
- e. Solid, or otherwise modified, bumpers or nerf bars with the purpose of weight distribution are not allowed.
- f. Bumpers and nerf bars shall be able to be taken off easily for inspection at any time.
- g. **Do not put anything on the nerf bars – it will be removed before you may compete. The only exception shall be item 4h as explained below.**
- h. Light aluminum vertical placards are allowed on the nerf bar for ADVERTISING purposes. ADVERTISING panels must be made of aluminum, safely secured and no more than 0.060" thick.

#### **5. ELECTRIC AND ELECTRONICS:**

- a. On and off switches must be on dash, top of the cowl or on steering wheel and must be connected and functional.
- b. All switches are to be clearly marked **on/off** for easy identification by safety personnel.
- c. No radio communication is allowed between the driver **to/between** any other outside source.

#### **6. BATTERY:**

- a. All wet cell batteries mounted in the cockpit must be covered and vented outside the cockpit area.

#### **7. FUEL:**

- a. All cars must run event approved methanol or gasoline. Additives or enhancements are not permitted.
- b. Tail mounted fuel tanks only – no side mounted tanks.
- c. Fuel tank must be able to hold a minimum of 3 gallons of fuel and be behind the rear axle.

- d. Fuel will be available for purchase at the event, or you may bring your own fuel (***all fuel must be stored outside of the building***)
- e. All fuel tanks must be equipped with a one-way check valve designed to prevent spillage of fuel in the event of an upset.

**8. WEIGHT:**

- a. The minimum weight of the entered car shall be 750 pounds as measured on the Rumble Racing Series scale at any time.
- b. Added weight must be **securely** bolted on and inside the main frame rails of the chassis, NOT ON NERF BARS. **Added weight must be painted white and must have the car number painted on it.**
- c. Added weight may be **securely bolted** underneath the motor between frame rails, but not attached to the nerf bars.

**9. ENGINE RULES:**

- a. Any 4-cylinder, 4-cycle engine not exceeding 640cc is permitted.
- b. All engines must have cockpit operated electric start, lever-type manual clutch in car and on-board battery capable of starting an engine.
- c. No traction control devices of any type are permitted.
- d. The car must remain chain driven off the engine countershaft.
- e. Operable mufflers are required.

**10. SUSPENSION AND MEASUREMENTS:**

- a. The maximum tread width shall be 65" as measured outside to outside, front and rear.
- b. The minimum tread width shall be 32" as measured center to center of tires.
- c. The wheelbase, as measured center of front axle to center of rear axle is 70" maximum and 55" minimum.
- d. Power steering **is permitted.**
- e. **Must be rear wheel drive only.**
- f. All suspension bolts except wheel nuts must be secured by some type of locking device.
- g. Front axles must be a one-piece solid axle, with no independent suspension of any kind. **Non-adjustable front axles are to be solid king pin to king pin. 3-piece axles are not permitted, no part of the axle should be able to rotate. Front axles must be constructed of SAE 4130 steel or a steel alloy equivalent in structural strength. Titanium front or rear axles are not permitted.**
- h. No sway bars, front or rear, are permitted.

**11. SHOCKS:**

- a. Any shock absorber is legal; however, cockpit adjusters are not permitted.

**12. BRAKES:**

- a. Only a left front brake and rear brakes are allowed with a maximum of 2 rotors and 2 calipers on the car.

**13. TIRES AND WHEELS:**

- a. Dirt tires only – 10".
- b. Front rim and tire width shall be 6" minimum and 8" maximum. Rear tires must be 10" dirt tires (racing rubber only) and in any combination of rim widths.
- c. Air bleeders are allowed.
- d. Wheels must be held on with 4 or more standard lug nuts or knock-off hubs.
- e. **Tire soaking is prohibited, and steps may be taken to check for soaking. Any violating tires may be disqualified, and the team will be subject to disqualification. No wet grinding tires, no washing tires.**
- f. RR spec tire will be the Hoosier 69/10-10w or American Racer 70.0 x 13.0/10GT.

**14. TRANSMISSION:**

- a. Any type transmission is legal on the 600cc engine.
- b. Any car equipped with a shifting mechanism must have this device mounted in the driver compartment. Shift levers may be mounted outside the driver compartment on the opposite side of car from the chain drive.
- c. Chain guards are to be 0.090" thick aluminum, or equivalent, and must run on top of chain from the front of the front sprocket to the center of the rear axle. Driver must not be able to touch the chain or sprockets while sitting in the cockpit.

**15. BODIES:**

- a. All cars must have a **modern** dirt sprint car look with complete bodies.
- b. Tail sections must be in place for time trials and all races. **Square tail sections are not permitted.**
- c. There must be a metal firewall (24-gauge steel or 0.0625" aluminum) between driver and engine.

- d. Body of car must be made of aluminum, metal, fiberglass or high impact plastic and must be of an attractive color or colors. **Carbon fiber is not permitted.**
- e. **The dash/hood must be a minimum 28" above the bottom of the bottom frame rail. Lexan or other transparent panels will not be included in the measurement.**
- f. **The right side of the cockpit must be enclosed**
- g. Rear view mirrors are not permitted.
- h. The only part of the car allowed to be dismantled for driver entry or exit is a quick release steering wheel hub.
- i. Mudguards must be made of aluminum or fiberglass and can be no less than 16".
- j. All mechanically operated devices must be mounted below the driver's shoulders, for safety reasons.
- k. Must have minimum of 2.5" clearance from ground to frame, including engine compartment **and other bolt-on accessories, including bolts and bolt heads. Suspension components are excluded.**
- l. Car should be able to roll over the 2.5" height gauge.

**16. SAFETY NOTES:**

- a. **An operable fire extinguisher is mandated for every race team's pit area.**
- b. Diapers, capable of holding spilled liquid contents, must be safely secured under the engine and fuel tank.
- c. **A catch can must be run and connected to the radiator system to catch any water overflow.**

**17. NUMBERS:**

- a. All cars must have legible numbers in colors contrasting to the background color, on both sides of the car and on the nose.
- b. Numbers on the nose are to be 8" minimum; numbers on the tail are to be 10" minimum and must be separated from any advertising so that they stand out and are readable to the scorers, officials, and the race fans.

The Rumble Racing Series reserves the right to change, delete or add to the specifications – with proper notice to all competitors – throughout the event as necessary to assure competitive and safe racing. The officials reserve the right of final interpretation of all specifications and reserve the right to inspect and/or reject any car and/or driver, crew member, etc. during the racing program.

The event racing format may be altered due to car count; at the discretion of Rumble Racing, LLC; however, all changes would be announced at the driver meeting and posted in the pit area.

**NOTICE:** Through diligent discretion, promoter reserves the right to refuse any entry and reserves the right to refuse admission entry into the restricted pit area.

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