

# ROUTE 66 HOGS & FROGS FESTIVAL

## Power Wheels Youth Drag Racing Rules

Power Wheels Youth Drag Racing is for kids 3-9 years old. We will have 2 age groups: 3-6-year-olds and 7-9-year-olds. Pre-Registration is recommended.

1. Driver only no passengers.
2. Helmets are required, bicycle helmets permitted.
3. Shoes or sneakers required, no open toed shoes.
4. Sit in vehicles only, no tractors, motorcycles or 4 wheelers. Remember the vehicles may bump into each other.
5. You may alter the power wheels to appear like a realistic derby vehicle. Numbers are required on the side of the vehicle. We will place numbers on them if there is none.
6. Seat belts required.
7. **The following classes are available:**

<b>3-6 YOA</b>	Stock only. 12v stock everything, no mods.
<b>7-9 YOA</b>	18v - Modified motors, plastic gearboxes, tires. 24v - Anything goes.
<b>10-15YOA</b>	18v - Modified motors, plastic gearboxes, tires. 24v - Anything goes.
8. No screws, fluid or concrete, ect. in the tires.
9. Doors, hoods, tailgates and trunks must be zip tied or duct taped closed.
10. Please make sure that there are no sharp or pointy areas on the cart.
11. Factory plastic bumpers must remain original and in place, do not reinforce the body.
12. One parent will be allowed on the track with their child during the event.
13. If a child gets out of their cart during their race then that child is out of the event.
14. All Children must have a signed consent form and minor release of liability form from a parent or guardian. If not completed before, they will be available race day during check-in.
15. **This is for the kids! Don't overdo it.**
16. Races will run on the bracket system same as the adult races.

# Rules for Power Wheels Adult Drag Racing

## Car Construction Rules

### 1. Car Body

Each car shall have a body that consists of one of the following:

- A. Something that looks like it could conceivably be or have been a children's ride-on toy or a recognizable portion thereof.

### 2. Drivers

- A. Each car shall be controlled only by one human driver seated in or on the car. Emphasis on *Human*.

### 3. Car Egress

- A. Each car shall be constructed such that an uninjured driver can exit the car without assistance in 5 seconds or less.

### 4. Wheels and Tires

- A. Same as the kids, no screws, fluid or concrete, ect. in the tires.

### 5. Steering

- A. No car may be steered by remote control or by anyone besides the driver(s) onboard at any time.

### 6. Motor Propulsion

### 7. Battery

- A. Each car shall have at least one battery with a nominal voltage less than or equal to 24V. This is not the time to crash and burn. Be smart, be safe.

### 8. Numbering

- A. Each car shall have a unique number somewhere on its body. The number shall be 1-5 digits long and the lettering shall be at least 1.5" tall.

# Required Safety Systems for Youth & Adult

The following features of your car are required for safety purposes.

## 1. Driver Protection

- A. The car must extend beyond the driver in every direction when viewed from directly above. This protection shall be sufficient to prevent direct contact between the driver and another car/barriers during an impact from any direction. This protection especially applies to feet, which may not dangle off the car. In the event of impact, drivers should not be the first point of contact with any outside intrusion of any other vehicle.

## 2. Brakes

- A. Brakes are required safety systems.
- B. Each car shall have mechanical brakes capable of stopping the car in full.
- C. Brakes that apply braking force directly to the tire of a car are not allowed to be the only source of mechanical braking.
- D. Brakes that apply braking force to the ground are not allowed.

## 3. Battery Retention

- A. Battery Retention is a required safety system.
- B. Each battery must be secured so that it remains in its position relative to the rest of the car at all times, during normal operation and especially during a tip or rollover. .
- C. Each battery must be secured with the appropriate amount of compression so that it may operate safely. The amount of compression you will need will depend on your battery chemistry. (Lithium, I'm looking at you.) **Know what you are doing before you do it.**

## 4. Kill Switch

- A. The kill switch is a required safety system.
- B. Each car must have a kill switch or removable link that stops all current flow from the battery or all batteries to the motor(s).
- C. This kill switch must be visible and accessible from the outside of your car.
- D. The kill switch should be yellow and/or red in color so someone other than you can shut your car off in an emergency.
- E. The kill switch may not be your throttle.
- F. The kill switch should not disable any safety systems.

## 5. Optional Safety Systems

- A. The following features of your car are optional safety features. They are not required, but the implementation costs of these systems do not count toward your \$500 budget
  - i. Lights
    - a. Lights are optional safety systems for daytime races.
    - b. Front and rear lights are required safety systems for nighttime races.

- ii. Reverse
  - a. A reversing system is an optional safety system. It is strongly recommended that you implement a method to put your car into reverse operation without exiting the vehicle.
- iii. Horn
  - a. A horn (or similar noise-producing device) is an optional safety system for daytime races.
  - b. A horn (or similar noise-producing device) is a required safety system for nighttime races.

## Driver Rules

### 1. General Driver Rules

- A. Each driver must have a valid driver's license and be at least 16 years of age to participate in the adult racing series.
- B. Each driver under 18 years of age must also have a signed release from a parent or guardian.

### 2. Helmets

- A. Each driver shall wear an approved helmet whenever they are on track to race or to practice. Helmets shall be subject to inspection and approval by Race Officials.
- B. An approved helmet shall be a 3/4: or full-face motorcycle, motocross, or automotive racing helmet that meets or exceeds DOT, SNELL, or ECE standards.
- C. Drivers who wear helmets that do not cover the eyes are required to wear DOT approved eye protection.

### 3. Other Attire

- A. Each driver is required to wear closed-toe shoes.
- B. It is SEVERELY recommended that each individual on the track (driver, pit crew, officials) wear abrasion-resistant gloves and full-body clothing including long pants and a long sleeve shirt. Members of the pits should have safety glasses and are SEVERELY recommended to be worn. Be adults about this. It's not our fault that you are irresponsible.

## General Event Rules

### 1. Event Structure

- A. The General structure of the race day includes events in the following order:

- i. Test Run
  - a. Each car will be allowed two test runs. Cars will line up in the order they arrived and registered in the morning.
  
- i. Brake Test
  - a. At the end of your second run, your car will have to come to a complete stop within 18ft of when it crossed the finish line.
  - b. Deliberately skidding, swerving, or spinning out is not an acceptable method of braking for the brake test.
  - c. Impacting the barriers is not an acceptable method of braking for the brake test (or ever).
  - d. If you fail the brake test, you may line up at the end of pit row and attempt to re-qualify if there is time.
  - e. Cars that do not pass the brake test are not allowed to race.
  
- ii. Race Brackets
  - a. Race brackets will be built in the order the cars arrive to register the morning of the race.

## On-Track Safety

### 1. Pit Row

- A. Cars and participants should not block pit row entries at any time during the day.
- B. Cars should be stored with their kill switches off when not being raced or when unoccupied.  
NOTE: A brisk walking pace (5mph) should be maintained while driving in pit row.

**WARNING:** Humans shall not stand, loiter, or otherwise occupy pit entries during practice/qualifying/race sessions. Please keep aware of vehicles around you. Stand inside your pit stalls unless you are servicing or retrieving your vehicle, or your team will face penalties. If there are people loitering outside of your stall and they are not part of your team, you will be penalized. Police your areas. You have been warned.