



SoE DERBY

The Great Race

OFFICIAL RULES

ALL DIVISIONS

1. Cars will race once in each lane of a four-lane track. Lowest average time wins.
2. Cars will be quarantined after weigh-in.
3. Each car must pass inspection by the official Race Committee.
4. One entry (car) per racer per division. 100 cars max. per division.
5. If a car leaves the track, the race may be rerun once at the request of the "driver".
6. If the car leaves the track more than once, the race is not rerun and the car will receive the default time of 9.999 secs. for the race.
7. All challenges or rulings shall be presented to the Race Committee and their decision shall be final without appeal.

Each car is inspected at weigh-in for the following inspection points:

Derby Car Dimensions

1. The overall width of the car including wheels shall not exceed 2.75 inches.
2. The overall height of the car shall not exceed 7".
3. The minimum wheel spacing side to side shall be 1.75".
4. The car must have 3/8" clearance underneath the body.

Derby Car Weight

5. Cars may not exceed 5.0 oz. max. The weigh-in scale at inspection will prevail.

REGULATION DIVISION

Body, Wheels, and Axles

1. The overall length of the car shall not exceed 7 inches.
2. The kit wood block must be the primary body for the car but MAY be modified as desired.
3. The wheels must come from the supplied kit but MAY be modified as desired.
4. The axles must come from the supplied kit but MAY be altered, polished and lubricated.
5. The wheels and nails provided in the kit must be used to bear the weight of the car body.
6. It is NOT required to use all of the supplied kit parts.
7. Other materials (except for weight) may only be added for cosmetic purposes.

Car Modifications Not Allowed

1. Wheel bearings, washers or bushings are prohibited
2. The car must not ride on any type of springs
3. No starting devices.
4. The car must be freewheeling.
5. No loose material of any kind, such as lead shot, may be used.

OUTLAW DIVISION

(Complete rules include “**All Divisions**” rules above.)

1. No remote control

INNOVATIVE DESIGN AWARD

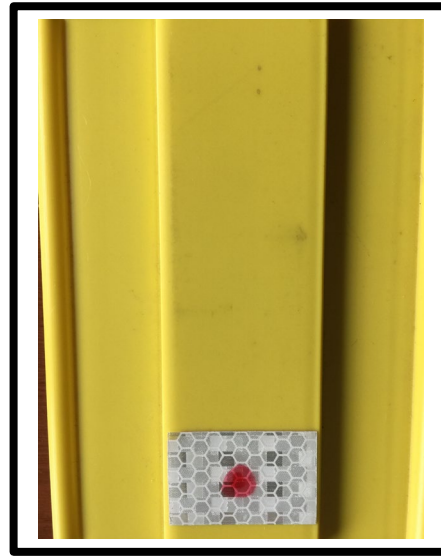
1. Significant portions of the car must be designed with Solid Works and manufactured with Solid Cam and or 3D printed.
2. A typed report with a cover sheet, printout of 3D model, detailed drawings, and car pics shall be submitted at registration.
3. A maximum of five single sided sheets for the report may be used.
4. Preference will be given to designs that include a 3D assembly model with drawings.
5. An executive summary (two paragraphs max.) must be given as to why the submission is best qualified for the award.

TRACK SPECIFICATIONS

- Surface – yellow extruded custom PVC
- Elevation – 45" @ start post
- Inclination – 27 degrees @ start post
- Length – 40 ft. 1/4" start post to timing trap
- Lane width – 3.45" wide
- Lane guide – 1.65" wide x .305" high (car straddles guide)
- Lane divider - .41" diameter half round
- Start post – 0.1885" diameter +/- .0010" on lane centerline +/- .060"
- Start area – 9 5/8" clearance from post to beginning of track
- Timing beam – approx. 1/4" diameter at center of lane



Start Post



Finish Line

Prizes sponsored by:

