

Heartland Conference IPHC

Derby Guidelines

1. **Race Car Specifications**

- a. Overall width not to exceed 2 $\frac{3}{4}$ inches
- b. Minimum inside dimension (width) at wheels 1 $\frac{3}{4}$ inches.
- c. Overall length not to exceed 7 $\frac{1}{2}$ inches.
- d. Overall height not to exceed 3 inches.
- e. Minimum ground clearance 3/8 inches
- f. Total weight not to exceed 5.5 ounces.

2. **Race Car Restrictions.**

- a. No washers, bushings, spring suspension, or bearings may be added to wheels.
- b. No loose materials are permitted.
- c. Weights cannot be taped onto the car.
- d. Cars must be freewheeling, no starting attachments allowed.
- e. Each car will be allowed to register in only one category per level of racing during a racing event.

3. **Lubrication.** Only dry lubricants such as graphite or powdered Teflon (white lube) will be allowed for lubricating axles.

4. **Wheels and Wheelbase.**

- a. Wheels must be supplied in the kit, no alterations permitted. (Minor sanding of wheels to remove imperfections is allowed)
- b. Wheel base must remain as received in the car kit. Wheelbase is defined as the distance between axles. The only Wheel base alteration allowed is changing the depth of the axle slot in order to modify the ground clearance of the car. The car must still conform to all specifications in Rule 2. Conference Derby Rules and Guidelines.

5. **Inspection.** Race officials will inspect cars at registration and will disqualify those cars that do not adhere to these rules. Those cars that pass inspection will be impounded. Once a car is impounded no modifications, lubrication or adjustments will be allowed until the end of racing.

6. **Track.** No one is allowed to cross the track at any time, except race officials.

7. **Loose Parts.** Cars which loose parts during the race, except a wheel, may not have that part re-attached. The car shall be taken to any Derby Staff for evaluation. The Derby staff will make a determination if and what work will be allowed on the car. The car owner will have 5 minutes to make the allowed repairs under Derby staff supervision. **Under no circumstances will anyone be allowed to add lubrication to the car.**

8. Cars for any category of competition should reflect the work of a racer himself or herself. No car should be entered into competition that does not reflect to some extent the work of the racer. The work should reflect the ability according to age.
 - a. Example – a pre-school child may only be able to sand and paint a car, where a middle school student should be able to completely build the car.
9. Cars are not to be built at the competition. Minor adjustments are allowed before checking the car in, but DO NOT bring your block of wood and make your car at the race!!!!