



2024 AZMN Ranger Derby Rules & Car Specs.

Car Building Rules:

1. **ALL Ranger Derby cars** are to be made from Royal Rangers car kits purchased from MY HEALTHY CHURCH: <https://myhealthychurch.com/store/startitem.cfm?item=187700&cat=sRRDERBY&mastercat=&path=sRRDERBY>

- a. Contestant may add weights to the car in order to bring the car to the maximum allowed weight.
- b. Weights must be an integral part of the car.
- c. Weights may be placed inside the car, mounted as an ornament, or be otherwise permanently attached.
- d. Weights may not be taped.
- e. The forward most part of the car's front must touch the start peg's face, no other part of the car can extend beyond this point.
- f. Wheels and Axles: Grooving axles is not allowed, Wheels cannot be machined thinner than original width.
- g. Home made wooden blocks may be used in place of the MHC provided block, ALL OTHER SPECIFICATIONS STILL APPLY.

2. **Specifications for Cars racing in the 5.5 Oz. Class** (including all attachments)

- a. Maximum Length----- 7 ½ inches
- b. Maximum Width----- 2 ¾ inches
- c. Maximum Height----- 3 inches
- d. Minimum Under-car clearance----- 3/8 inch**
- e. Minimum Distance Between Wheels----- 1 ¾ inch
- f. Maximum Weight----- 5.5 oz.

3. **Specifications for Cars racing in the 8.0 oz. Super Modified Class** (including all attachments)

- a. Meet standards: 2a, 2b, 2d and 2e.
- b. Maximum Height----- 7 inches
- c. Maximum Weight----- 8 oz.

Racing rules:

1. **In order to be eligible for competition in either racing or workmanship:**

- a. NO LIVE CREATURES AND NO LIQUIDS.
- b. Once a car has been registered, no further work may be done to it.
- c. All cars must be able to race in its owner's class.
- d. All cars must have NEVER raced in previous race events. The only except is in the "Oldies but goodies Class".
- e. Fit on and roll down the track without interfering with any other car.
- f. If the car leaves its track lane two or more times, the car may be disqualified.
- g. A contestant may enter 2 cars, one in his/her respective class and one in Super Modified Class.

2. **The following classes will race at Ranger Derby:**

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| a. Rangers Kids | 1 st , 2 nd , and 3rd place awards |
| b. Discovery Rangers | 1 st , 2 nd , and 3rd place awards |
| c. Adventure Rangers | 1 st , 2 nd , and 3rd place awards |
| d. Expedition Rangers | 1 st , 2 nd , and 3rd place awards |
| e. Commanders/Leaders | 1 st , 2 nd , and 3rd place awards |
| f. Open (Girls and all Non-Rangers) | 1 st , 2 nd , and 3rd place awards |
| g. Super Modified (Open to all) | 1 st , 2 nd , and 3rd place awards |
| h. Grand Champion: (B-C-D) First place winners. | Special Award |
| i. Best Design for each of the above classes | 1 st , 2 nd , and 3rd place awards |