



Ranger Derby Car Rules



Rules are based on the National Royal Rangers guidelines and specifications.

General Rules & Car Specifications

1. A Driver may enter only one car per racing Division.

2. Ranger Derby cars must be built using Royal Rangers car kits.

Contestant must use the parts provided in the kit for their intended use.

* All Parts (body / wheels) must be from 'new' car kit (NO parts from previous years). *



3. Cars must meet the following Car specifications:

Note: Check the kit block before you start to make sure that it does not exceed any of the requirements.

Car must fit on and roll down the track without interfering with any other car.

- ◆ Car must be free-wheeling: starting devices are NOT allowed.
- ◆ No moving parts (except wheels) or loose materials of any kind will be permitted on the car.
- ◆ Axles must be rigidly attached to car body; Car may NOT ride on any type of spring.
- ◆ Details such as steering wheels, driver, decals, painting and other exterior and interior details are permissible as long as they are securely attached and comply with these specifications.

CAR SPECIFICATIONS

Length (overall, including all attachments)	7-1/2 in.	(maximum)
Distance between front and rear axles: center-to-center	2-3/4 in.	(minimum)

• **Front Design:** NO part of the car may extend over or beyond the starting pin.

The forward-most part of the car must contact starting pin with minimum width of 1/4 in.
[The starting pin is centered in each lane and extends 2-1/2 inches up from the track's surface.]

Width (overall, including all attachments)	2-3/4 in.	(maximum)
Distance (clearance) between wheels on each axle	1-3/4 in.	(minimum)

Height (overall, including all attachments)	3 in.	(maximum)
Under-Car Clearance	3/8 in.	(minimum)

Wheel diameter	1.220 in.	(minimum)
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Weight , (maximum; 156 grams)	5.50 ounces	(maximum)
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The contestant may add weights to the car to the maximum allowed weight.

Weights are available at Technical Inspection during Registration (NO additional cost).

Weights must be an integral part of the car. Weights may not be taped or set on car.

Weights may be placed inside the car body, mounted as an ornament, or otherwise attached.

Note: unmodified car kits (block; wheels; & axles) weigh slightly more than max. weight.

The official race scale shall be considered final.

Once a car has passed Technical Inspection, the car will be impounded;

NO further work or adjustments may be done to the car.

The Pit Garage will be open to lubricate and work on cars before Technical Inspection.

ANY Questions on Specifications, please contact: Ed Bohn 207-1223 ed_bohn@hotmail.com

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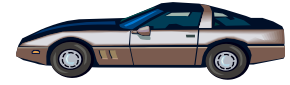
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B. Car Show



Judges will not judge cars in divisions that have family members competing in
Three judges will evaluate cars for each Division based on the following

- **Design & Theme:** (Originality)
 - Was the design the idea of the artist himself?
 - How much creative thought went into the design?
- **Craftsmanship:** (Skill showed in cutting, carving, sanding and detailing the car.)
 - Did the owner make the car's extra ornaments or were they something purchased?
- **Appearance & Color:** (Outward Appearance).
 - Is the appearance pleasing to the eye?
 - Is the painting of the car appealing?
 - Are the color and paint even all over?



C. Speed Competition



Speed competition will be determined by elimination bracket heat races for each division.

Grand Champion: All first, second, and third place winners in each division; are eligible to compete in the Grand Championship Race after all other races are completed.

Starter Officials will not stage/start cars in divisions that they or family members are competing.

A race official may adjust the car for the younger divisions to ensure a competitive race.

- **All cars will start by gravity from a standing start at the starting line of the track.**
- If a car jumps off the track and interferes with another car, re-run the heat race.
 - No interference, No re-race.
 - If the same car jumps off the track on another heat race, the car is dis-qualified.
- If weights or any other part of a car comes off during a heat race, the heat race will be re-run.
- If the same car or parts of it leave the track again, the car is disqualified from that heat race.
- If a car is damaged, the race judge, at his discretion, may release a car to its owner.
 - In such a case, only the repairs necessary to allow the car to race are permissible; no modifications or lubrication is allowed. Repairs are only allowed after the heat is complete.
 - No heat/race will be delayed while repairs are made.
- If a car is unable to run in its scheduled heat race, the car is disqualified from that heat race.



D. Victory Lane



Division	Description	Gender	School Grade	Awards	
				Speed	Show
100	Rainbow	both	age 3-5	1 - 3	1 - 3
200	Ranger Kids	boys	K - 2	1 - 3	1 - 3
300	Discovery	boys	3 - 5	1 - 3	1 - 3
400	Girls	girls	K - 12	1 - 3	1 - 3
500	Adventure/Expedition	boys	6 - 12	1 - 3	1 - 3
800	Adults	both	age 18+	1 - 3	1 - 3
	Grand Champion	both	n/a	1	

