

# 2018 GENERAL GUIDELINES



## CAR SPECIFICATIONS:

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- Maximum width - 2-3/4"
- Maximum Length – 7 3/8"
- Maximum Weight - Not over 5 Ounces
- Maximum Height – 3" (for timing judge)
- Minimum width between wheels - 1-3/4
- Minimum bottom clearance underneath the body (so it does not rub on the track guide) - 3/8"

## RULES

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Wheel bearings, washers, and bushings are prohibited. The car shall not ride on springs. Only cars that are from RA Racers, Make Tracks Company or AWANA are permitted. Only dry lubricant is permitted. Details, such as steering wheel and driver are permissible as long as these details do not exceed the maximum length, width and weight specifications. The car must be free-wheeling, with no starting devices.

No modifying axles or wheels. Axle groves (wheel base) cannot exceed 4 ¼ inches and the groves must be secured on car (glued). No taping of weights will be allowed.

The person entering a car to race must have worked on the car with assistance from parents or leaders.

Each car must pass inspection by the official inspection committee before it may compete. If, at registration., a car does not pass inspection, the owner will be informed of the reason for failure, and will be given time within the official weigh-in time period to make the adjustment. After final approval, cars will not be re-inspected unless the car is damaged in handling or in a race.

## BUILDING INSTRUCTIONS

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Check the grooves to ensure that each is at a perfect 90-degree angle to the car body. A car with untrue axles tends to steer to one side or the other, causing it to rub up against the side of the lane strip, slowing it down. You can check the groove angles by using a square, a protractor, or even a piece of paper.

Lay square on block to check for squareness and alignment of slot. Use two hacksaw blades side by side to redress the slots. Use the edge of the square as a guide.

Choose your favorite design, then mark the block accordingly. Lay car body on the side, then gently drive the axles into the grooves within 1/4" of the axle head. Axles should fit tight. With a pair of pliers, remove axles by pulling and turning gradually. Repeat on the other side of block. Most of the cutting can be done with a hand saw, then finished with sandpaper. Details such as fins and scoops should be added now.

Any additional weight needed to achieve a total of 5 ounces should be built into the car.

**NOTE:** If the car design you chose has a narrow body, make sure the area where the axles are inserted into the body remains 1-3/4" wide, or wheels will not fit over the guide strips of the track.

## PAINTING AND WHEEL ASSEMBLY (Optional)

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Apply several coats of sanding sealer; then sand entire car with a fine-grade sandpaper. Give model at least two coats of fast drying paint, in your choice of color. When paint is completely dry sand with a fine sandpaper, apply a final coat of paint and allow to dry thoroughly. To finish, rub entire car with a rubbing compound. Details such as windshield, driver, racing numbers, etc., should be added now. For a super finish apply a coat of auto wax and rub to a high gloss. Pre-lubricate axles and wheels using, dry powdered lubricant. Do not use regular oil or silicone spray, since it may soften the plastic.

ORDER FROM:

<http://www.royalracers.com/Orderinginfo.htm>

Order Deluxe Kit:

### **Deluxe Kit includes**

- one piece of wood (block or shaped)
- one set of wheels (3/8 inch & 1/4 inch)
- one set of pin axles
- number stickers
- instructions
- Stick on weights (scored in 1/4 oz increments)
- **PLUS**, the base of the car body is routed to receive the stick on weights.