

# BUILDING PLAN FOR AWANA GRAND PRIX CARS

## General Information

- Use only the wood blocks, wheels and axles furnished in the kit.
- Car plan shown is only to aid you. You may use a design from any source or use your own design.
- Cars may be built by the clubber with the assistance of an adult. Clubbers should do as much of the work as they safely can.
- Participation ribbons will only be issued to a clubber if his/her car has successfully competed in at least one heat on day of the race.
- The Awana Grand Prix track is designed with lane strips to keep cars in their proper lanes.

## Racing Specifications

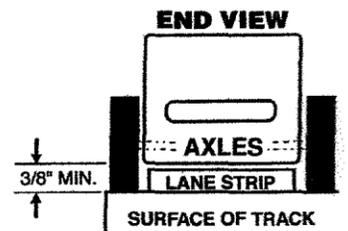
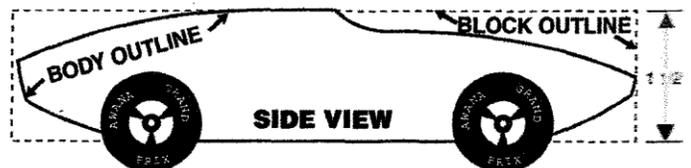
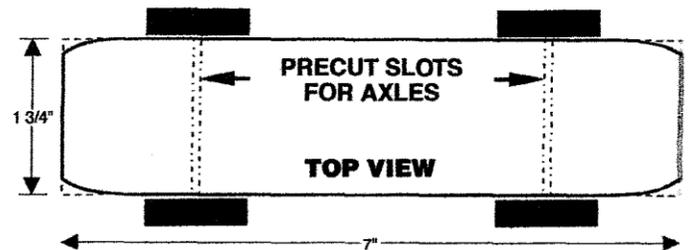
1. Overall length shall not exceed 7".
2. Overall width shall not exceed 2 3/4".
3. Overall height shall not exceed 3" in order not to interfere with the Grand Prix finish-line detector.
4. The distance between the wheels (side to side) cannot be less than 1 3/4" or the car will not fit on the track.
5. Car weight shall not exceed 5 oz. Weight may be added to lighter cars by hollowing out cavities and inserting lead or another metal. Such additions must be built securely into the car.
6. Wheel bearings, bushings, washers and springs are prohibited.
7. Addition of decals, drive, steering wheel, car trim, accessories and painting is permitted as long as they do not cause car to exceed specified dimensions or weight.
8. Starting devices are prohibited. Car must be freewheeling.
9. Car must pass inspection by Awana Grand Prix Inspector(s) in categories of weight, length, width, height and other specifics mentioned in the instruction booklet. Inspectors may send cars to the repair station if there are any questions about meeting these standards.
10. To prevent bottom of car from rubbing on the lane dividers, be sure clearance is 3/8" minimum.
11. At the start of a race, the entire car must stage behind the starting pin. No part of the car should extend over the top of the starting pin.

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## Building Your Car

- Outline your car on the wood block as shown from top, side and end views. Whittle, saw or carve the block to desired shape, keeping within specifications.
- Sand car with medium-grade sandpaper, then add two coats of sealer to car body. When dry, sand with fine grade sandpaper.
- To eliminate vibration and friction, polish wheel axles with a light lubricant. Rough edges may be removed from wheels by placing them in a drill and sanding the treads lightly. (Wheels must retain the original "Awana Grand Prix" lettering).
- Tight fitting axle slots have been precut; insert axles into wheels, then tap them gently into place with a hammer. Axle slots do not have to be used. Axles can be placed in drilled holes to create a wheelbase of any length. If you wish to reposition or camber an axle, do not lower the car chassis more than 3/8" or car may drag on lane strip. A drop of glue can help secure axles.



## OPTIONAL DESIGN SUGGESTIONS:

- Paint to desired color
- Use rubbing compound and wax to a high gloss
- Add decals using assigned car numbers