

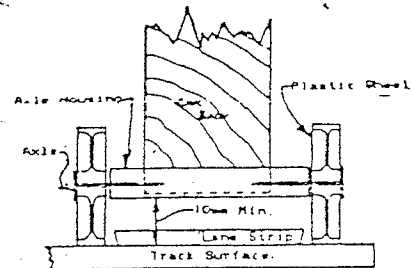
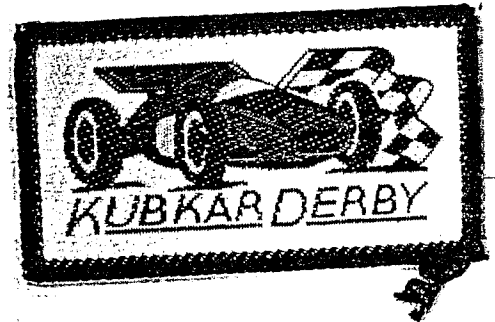
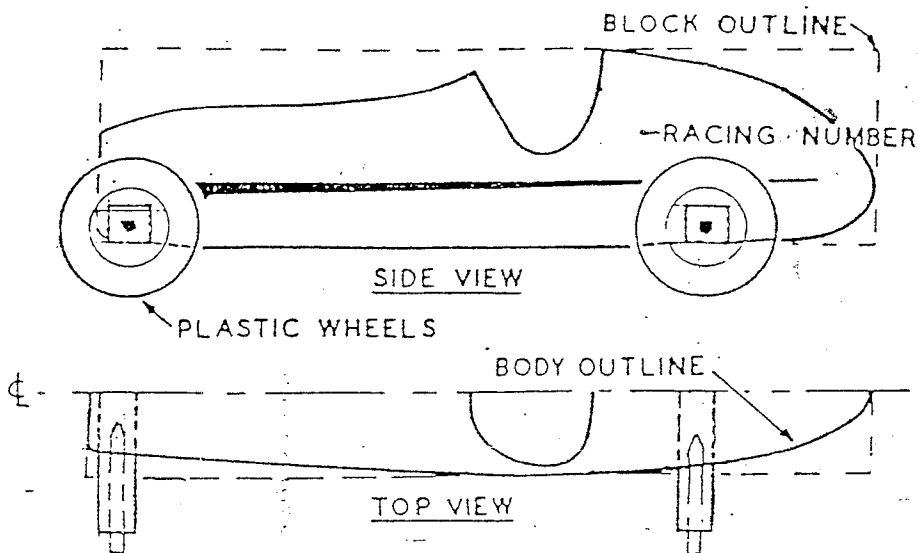
KUBKAR DERBY

A Cub Father and Son Project

KUBKAR model must be made according to the racing specifications below.

The KUBKAR DERBY is open to all cubs.

Entrant can build the car with the help of his father or other adult.



RACING SPECIFICATIONS

1. Width - Overall width shall not exceed 70 mm.
2. Length - Overall length shall not exceed 185 mm.
3. Weight - Overall weight shall not exceed 140 grams.
4. Materials supplied in the kit must be used.
5. Axles (nails provided) may be hand filed to remove burrs and hand polished using sandpaper only.
6. Wheel bearings, washers and bushings are prohibited.
7. Springing - the car shall not ride on any type springs.
8. Details - details such as Steering wheel, Driver, Decals, Painting, Interior Detail are permissible as long as these details do not exceed the maximum weight of the car.
9. Attachments - the car must be free-wheeling with no starting devices.
10. Lubrication - No lubrication or graphite is permitted on wheels or axles.
11. Inspection - Each car must pass inspection by the official Inspection Committee before it may compete. The inspectors have the right to disqualify those cars which do not meet these specifications.

cont...

BUILDING HINTS

Select a race car design from a magazine or newspaper and outline your car as shown in side view and top view of plan. Whittle the wooden block to the desired shape. Cut underside of car body to let in axle housing and fix in place (alternatively axle housing may be fixed to underside of the body). Drill a hole in each end of the axle housing ensuring the hole is less than the diameter of the axle. Sand the entire car with a medium grade sandpaper. Give model two coats of undercoat and when dry, sand with a fine grade sandpaper. Give entire model two coats of coloured paint in colour desired. Insert metal axles into wheels, then force them into the predrilled holes in the axle housing, applying cement. Add details and any transfers you desire.

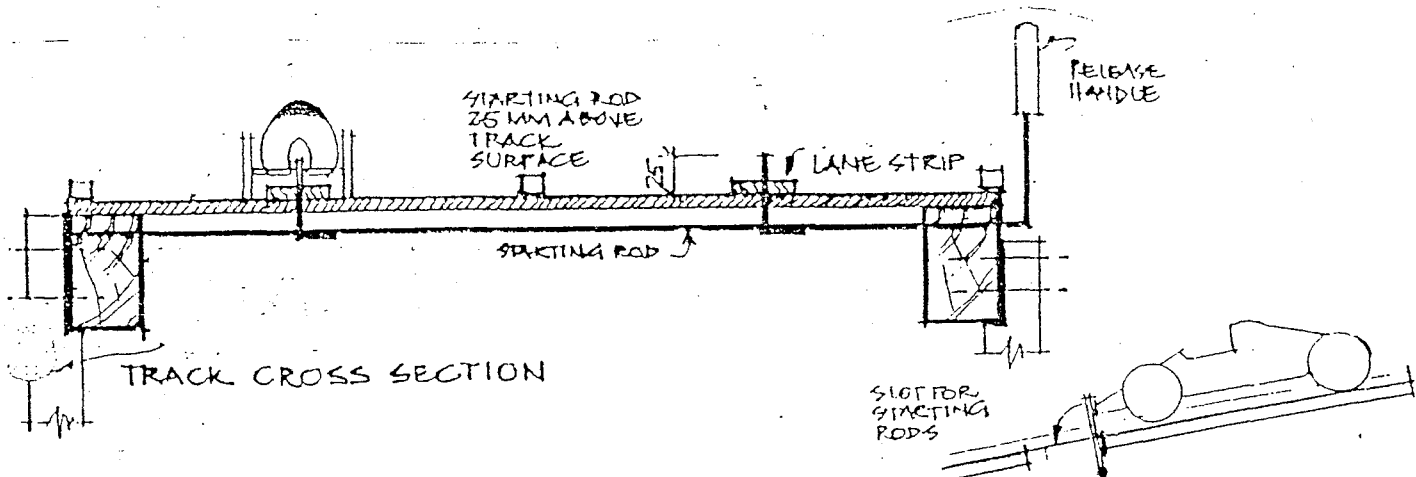
Your car will go faster if you eliminate vibration and friction: TO DO THIS - ensure holes drilled for axles are square to body, polish by hand the nails and remove rough edges from wheels.

SAMPLE MODELS - Two examples of racing models that can be used are attached. You may also experiment with your own designs if you wish provided that you comply with the racing specifications above.

KUBKAR DERBY TRACK

The construction of a KUBKAR Derby Track is made so that cars are kept in lanes by a lane strip. The lane strip is 45 mm wide. It is necessary that axles be used as furnished and that car chassis not be lowered below 10 mm.

Failure to follow these instructions may cause the car to drag on the lane strip.



RACE PROCEDURE:

HEATS - All races will be run on a system of elimination by heats. Timing of contestants shall have no bearing in determining the heat or final winner.

STARTING - Cars must start by gravity from a standstill at the starting line on the track without any help. No pushing will be allowed.

FINISH - The car whose nose is first over the finish line is the winner.

If any car leaves the track on the first run, there is no contest. The race is rerun. If the same car leaves the track on the second run, the car is automatically disqualified.

HAPPY RACING!!

P.S. PLEASE STICK TO THE RULES TO AVOID CONTROVERSY.

