

Cubmobile Specs and Parts

See the illustration for an example of building materials and hardware
(Specification on these instructions supersede the illustration)

- Wheels may not exceed 12" diameter.
- All wheels must be equipped with rubber tires and must be solid (not filled with air).
- Car must be secured wheel and axel construction and only 4 wheels are allowed.
- The car frame is made from at least 2" x 4" construction lumber.
- The overall length of the car is a maximum of 5'.
- The wheelbase (from front axel to rear axel) is a maximum of 4'.
- The width of the car is a maximum of 42".
- Use roundhead ½" bolts to hold the frame. Screws are a second choice. **Nails are NOT suitable, because they may work loose.**
- All cars must have a seat with a braced backrest so the boy can comfortably steer with his feet & hands
- Cars must be equipped with an adequate safety belt that is fastened to the frame of the car.
- Steering is done with the feet, placed on the front axel, and by the hands holding a rope fastened to the front axel.
- If threaded axels are used, the nuts must be secured with cotter pins, wire or nylon nuts.
- Cars must be equipped with a brake. Its rubbing surface must be faced with a rubber material such as a strip of an old tire. This will stop the car when dragged on the ground. Brake handle must be in front of driver.
- During the race the 2" x 4" blocks fastened 1/8" from the centerboard will limit the turning radius. See illustration.

Plans and specs are in the Cub Scout How-to-Book. Specs have been modified for safety and to improve racing ability of the car. No added weight, i.e. bricks, rocks, or metal.

The cars are heavy enough as is. You (Leaders of the Pack that built the car) are responsible for lifting your scout's cars on to the ramps.

All racers **must** have a helmet. These may be shared between the scouts of your pack.

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