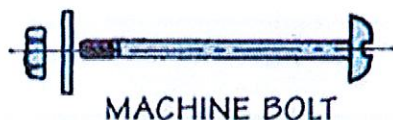


SQUARE SECTION
PREVENTS TURNING



USE THESE TYPE FASTENERS -
NAILS WILL NOT HOLD

7"-10" DIA. WHEELS
FROM LAWNMOWER,
WAGON, TRICYCLE,
BARBECUE, ETC.

POST - 2"x4"

SEAT BACK -
8 3/4" x 20"
3/8" PLYWOOD

SEAT -
15"x20"
3/8" PLYWOOD

FRAME - 2"x4"
52" LONG

STEERING BRIDLE -
1/4" NYLON ROPE

AXLES -
2"x4",
28" LONG

SAFETY BLOCKS
TO LIMIT
STEERING ANGLE

WHEEL

LAG
SCREW

AXLE

FLAT
WASHER

FLAT
WASHER

USE
HELMETS AND
SAFETY BELTS

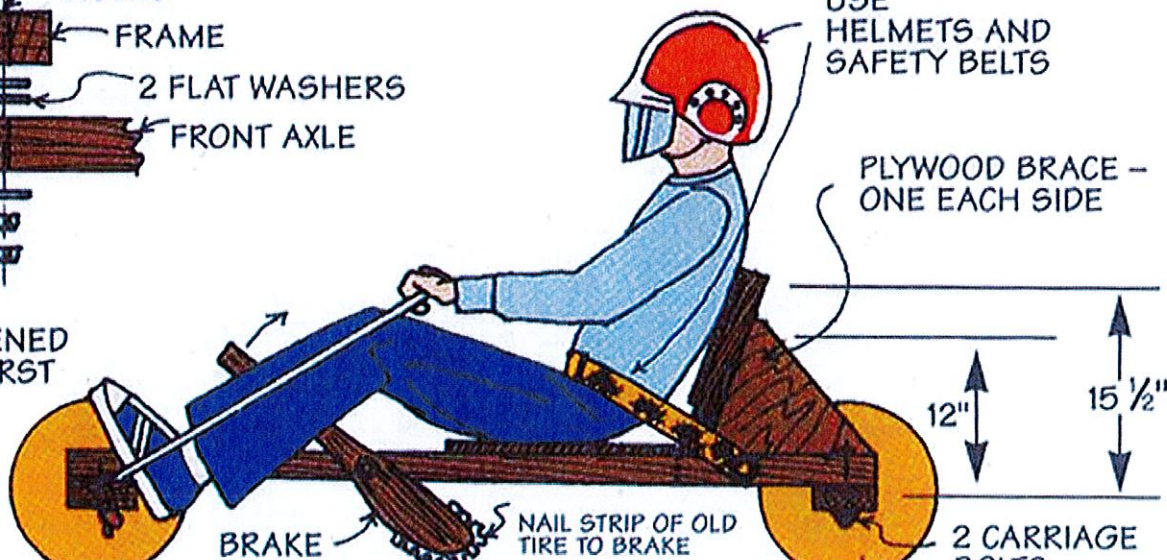
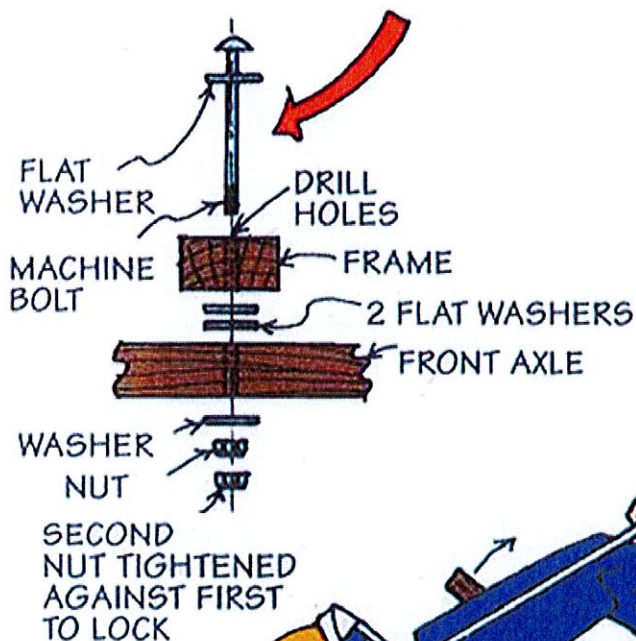
PLYWOOD BRACE -
ONE EACH SIDE

12"

15 1/2"

2 CARRIAGE
BOLTS

BRAKE
NAIL STRIP OF OLD
TIRE TO BRAKE



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 axle 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 axle to rear axle) 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 axle, and by the hands holding a rope fastened to the front axle.
- 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.

Tools and Parts

<u>Quantity</u>	<u>Description</u>	<u>Tools</u>
4	8" Wheels	power drill
1	2'X4' 3/8" or 1/2" plywood	3/8" and 5/16" wood bit
2	8' 2X4	wrenches or socket set
1	2"X2" surveyor's stake	screwdriver
4	3/8"X6" lag screws (for wheels)	tape measurer
1	3/8"X4" hex bolt (front axle)	wood glue
1	3/8"X4" lag screw (for brake)	power or hand saw
2	5/16"X4" carriage bolts- rear axle	
13	3/8" washers	
1	3/8" lock nut	
2	5/16" washer	
2	5/16" lock washer	
2	5/16" nuts	
32	#6X1 1/2" wood screws	
4	#6X2" wood screws	
1	6-7' 1/4" rope	
1	seat belt (from salvage yard)	
1	2"X6" piece of rubber (old tire)	