

NEW BERLIN SOAP BOX DERBY SUGGESTED BILL OF MATERIALS

(Revised 04/28/2014)

This bill of materials is for suggestion only.
It is not intended to be complete, only to get you started.

Refer to the OFFICIAL RACECAR SPECIFICATIONS
for minimum car building requirements.

To avoid the disappointment of a broken car on race day,
**for cars built 2011 and after it is required that steering and brake
systems and other functional components be attached to the car
by through-bolting, rather than with screws or nails.**

FRAME / AXLES

- 5/8" plywood or 3/4" OSB (oriented strand board) for floor
- 1-1/2" X 3-1/2" wood for axles, 2 pieces, each 30" long
("two-by-four")
- 1/2" bolts, nuts, washers for attaching axles
- 5/16" bolts, nuts, lock washers for attaching wheel brackets

STEERING

- 3/4" inside diameter copper or steel pipe for steering shaft
- 1/16" diameter woven steel wire, not plastic coated.
("aircraft cable")
- Turnbuckles with lock nuts
- Eye bolts, nuts, washers for attaching cable system to axles
- Swivel pulleys or brake line
- Cable clamps

BRAKE

- Copper pipe, elbows, tees
- Mounting brackets and bolts, nuts, washers
- Heavy duty return spring
- Heavy rubber pad or discarded tire

BODY

- Body covering to suit your design
- Paint
- Car numbers, 3 sets, 4" MINIMUM SIZE
- Sponsor name letters, 2 sets, 2" MINIMUM SIZE

MISCELLANEOUS

- Adhesives, glues, etc.
- Other hardware as your design may require
- IMAGINATION, INGENUITY, AND CHILDREN'S
PARTICIPATION