

# 1:20.3-scale doctor's buggy

Plan set #84

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If you are modeling a railroad in the period prior to 1920, you will need a supply of horse-drawn vehicles. This doctor's buggy is the seventh of several to be offered. It is based on a standard buggy chassis. The prototype for this buggy was built of native woods and finished in black, with dark-green wheels.

## Construction

Begin by assembling the frame. Since the frame is made of dissimilar materials, use CA cement for assembly. Start by cutting three pieces of  $\frac{3}{16}$ " square x  $1\frac{3}{4}$ " pieces of pine. Drill the  $\frac{1}{16}$ "-diameter holes where needed. Glue the  $\frac{1}{32}$ " ply semi-circular piece in place. Add the tube and the rear axle, followed by the flat wire springs and step. When this has dried fully, paint the frame black.

Now make up the front axle and the shafts. Since this is also made from dissimilar materials, use CA cement to assemble. This should be painted black. When dry, pin the front axle to the frame with a pin through the ply semi discs.

Now make the wheels. The wheels for this vehicle are made from laser-cut ply and can be ordered from Northeast Narrow Gauge (see below). They are assembled according to the instructions that come with the wheels. They should be sealed with clear lacquer and, when dry, painted dark green.

Seal and paint these dark green. These can be fitted onto the axles and the small eyelets that holds them in can be glued to the axle ends.

Now make the buggy body. Make the body sides, front, and rear from stripwood. Cut a floor from  $\frac{1}{8}$ " ply. Cut, fit, and glue the stripwood to form the body. Add the larger front and seat bottom.

Make the seat sides and back from  $\frac{1}{16}$ " x  $\frac{1}{4}$ " stripwood. Seal everything with clear lacquer. Sand lightly, then paint the exterior of the buggy body black. When dry, fit, pin, and glue the body to the frame.

Make the hard top from  $\frac{1}{16}$ " sheet balsa. When done, with the assembly, sand the top smooth and give it two coats of clear lacquer. Allow this to dry overnight, then apply a couple of coats of flat black. Allow to dry thoroughly.

Locate, pin, and glue the hard top in place on the body. Add the steps, which should be made from  $\frac{1}{32}$ "-diameter wire, and the cardstock discs. Prepaint these black before fitting and gluing them in place.

A Schleich Arabian stallion will look nearly perfect pulling your doctor's buggy.

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This is an online supplement to the February 2008 issue of *Garden Railways* magazine. To purchase previously published paper plans, see the list of those available at [www.sidestreet.info](http://www.sidestreet.info)

A kit for the doctor's buggy (#TLC116) is available from Northeast Narrow Gauge for \$30 + \$4.50 s&h (to the US). While supplies last, wheels only will be available for \$6 per set + \$3 s&h, one set per customer. Order from Northeast Narrow Gauge, PO Box 191, Wiscasset ME 04578. Web site: [www.nemodel.com](http://www.nemodel.com)

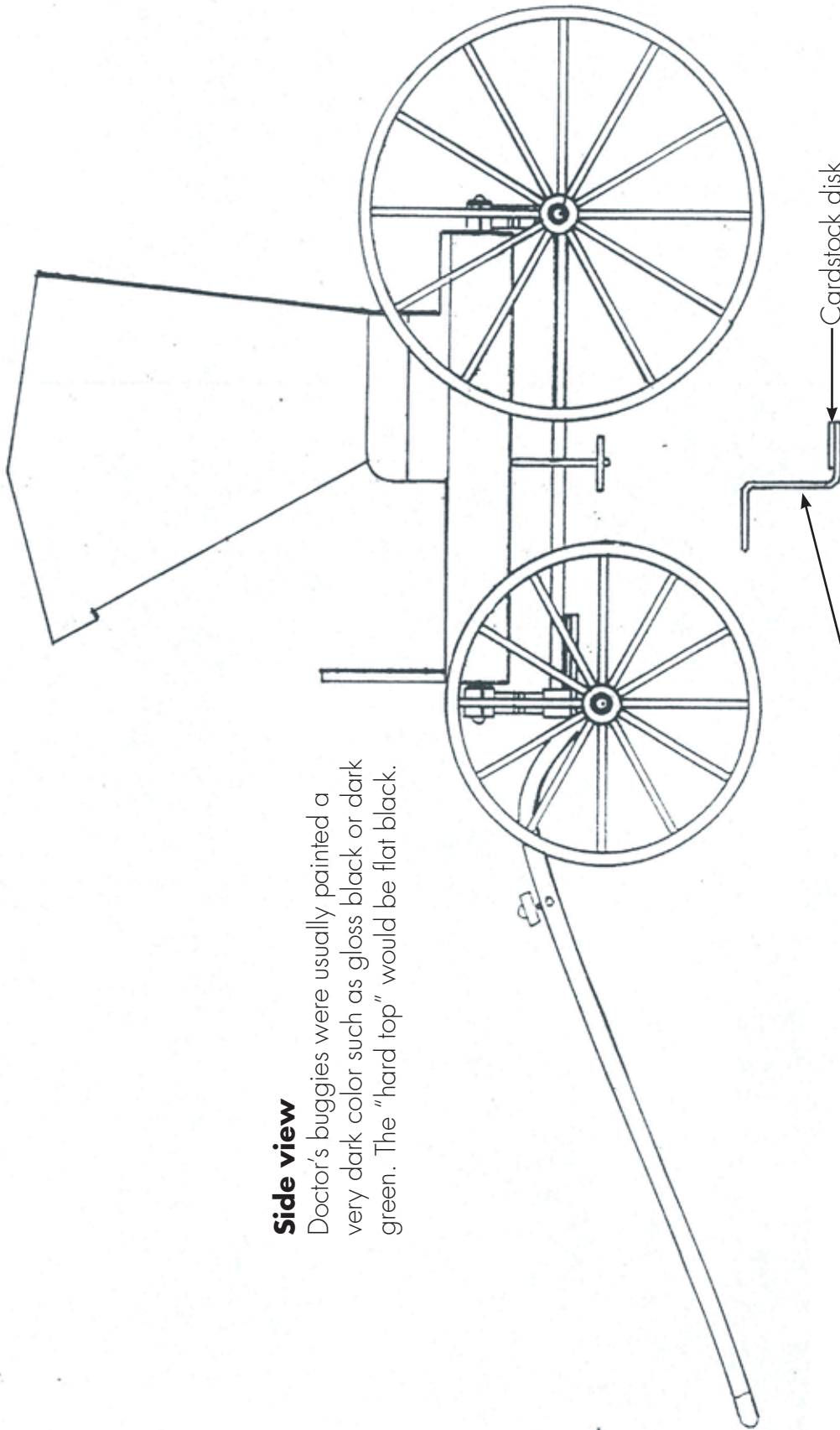
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## Are you working in a different scale?

- If you are working in 1:32 scale, reduce these drawings to 63%.
- If you are working in 1:29 scale, reduce these drawings to 70%.
- If you are working in 1:24 scale, reduce these drawings to 88%.
- If you are working in 1:22.5 scale, reduce these drawings to 90%.
- If you are working in 16mm scale, enlarge these drawings to 107%.
- If you are working in 1:13.7 ( $\frac{1}{8}$ " scale), enlarge these drawings to 148%.

### Side view

Doctor's buggies were usually painted a very dark color such as gloss black or dark green. The "hard top" would be flat black.



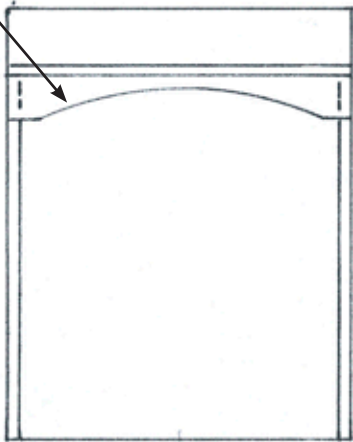
### foot stop

Make two from 1/32" wire

Cardstock disk

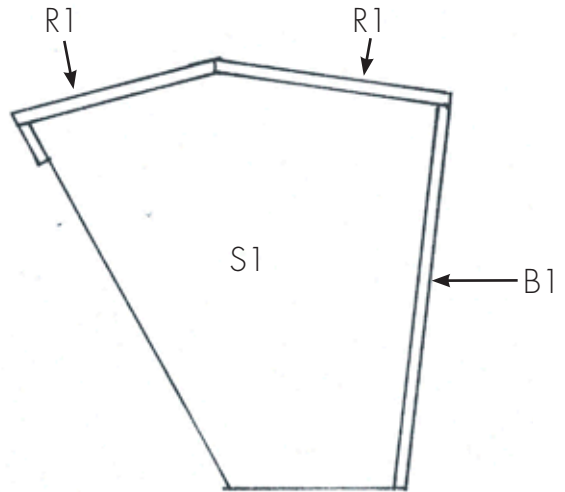
**front view**

Make trim from  $\frac{1}{16}$ " x  $\frac{1}{4}$ " strip



**The hard top**

**side view**



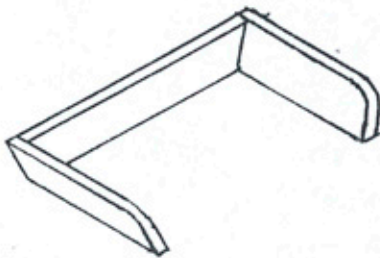
**Body**

Plywood floor  $\frac{1}{8}$ " x  $\frac{3}{8}$ " x  $2\frac{5}{8}$ "

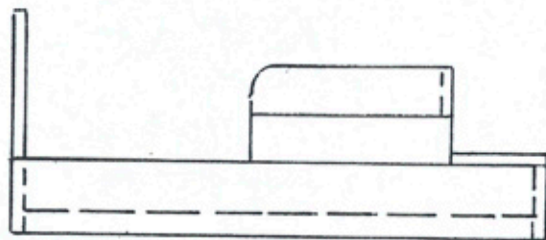
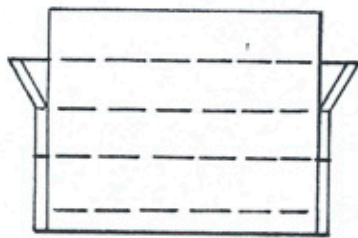
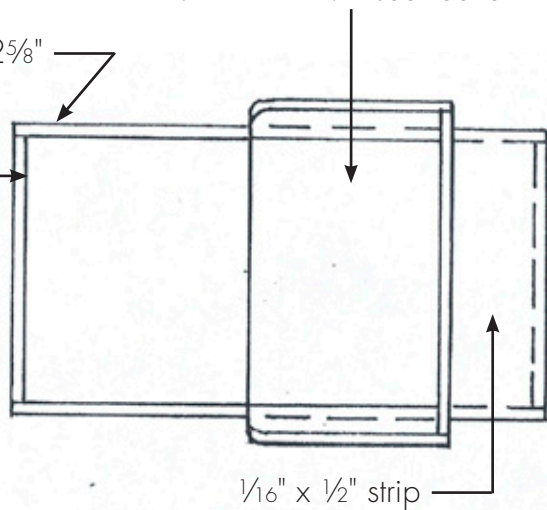
$\frac{1}{16}$ " x  $1\frac{1}{8}$ " x  $1\frac{3}{8}$ " front

$\frac{1}{4}$ " x 1" x  $1\frac{1}{2}$ " seat bottom

$\frac{1}{16}$ " x  $\frac{1}{2}$ " strip

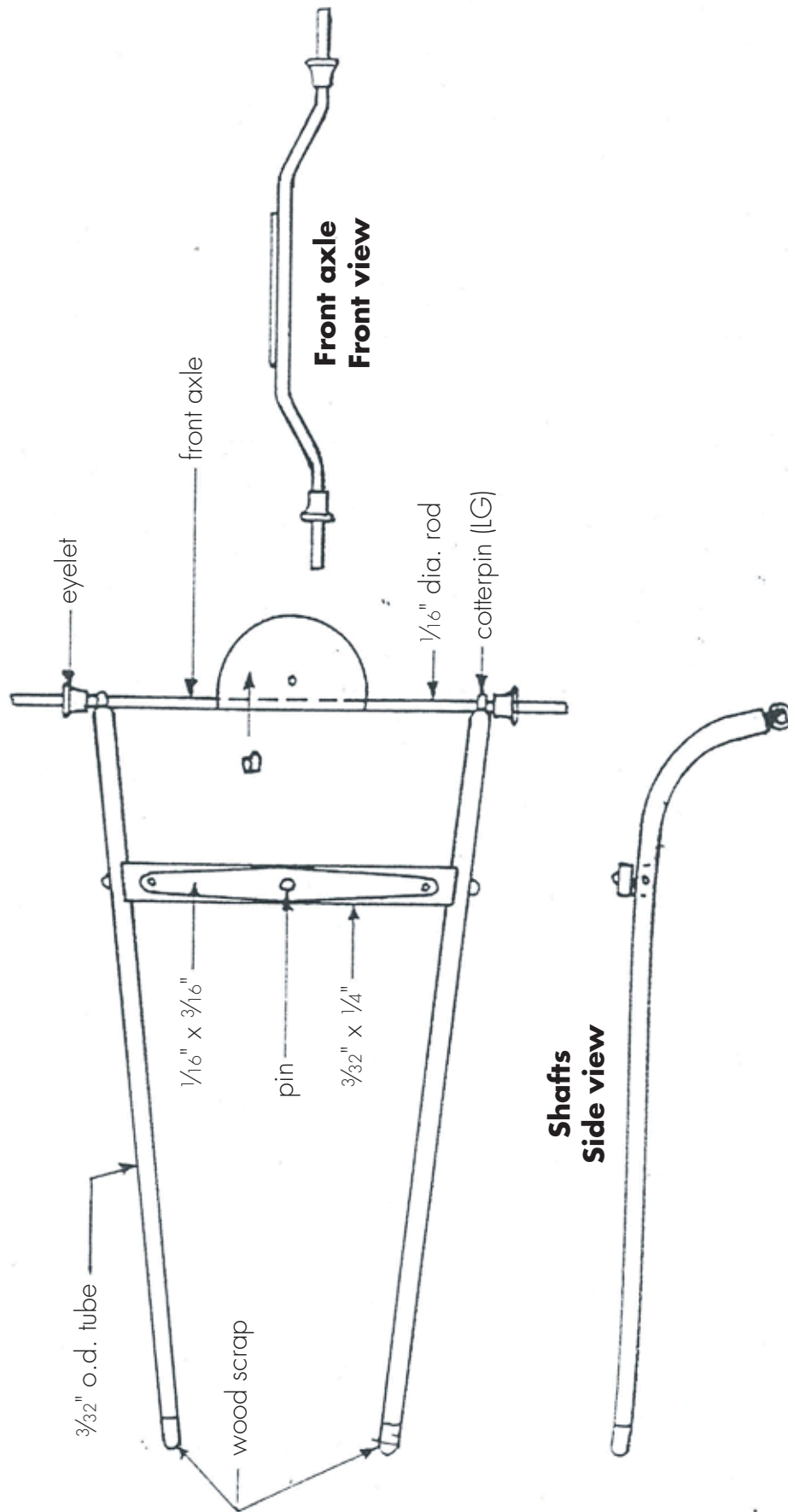


Make seat sides from  $\frac{1}{16}$ " x  $\frac{1}{4}$ "



Make the sides and the rear from  $\frac{1}{16}$ " x  $\frac{3}{8}$ "

**Front axle & shafts  
Top view**



**Shafts  
Side view**

**Frame  
Top view**

**Springs omitted for clarity**

**Make springs from  
flat wire**

