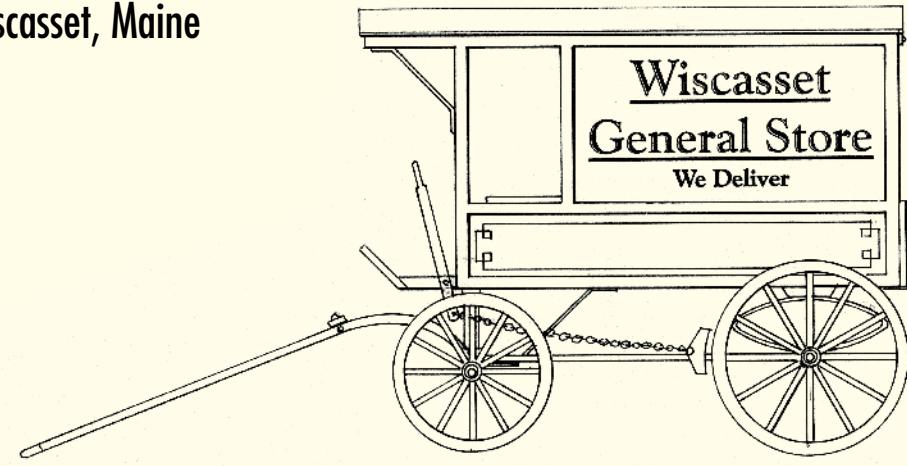


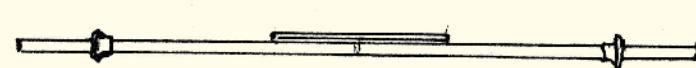
1:20.3-scale delivery wagon

by Ted Stinson | Wiscasset, Maine

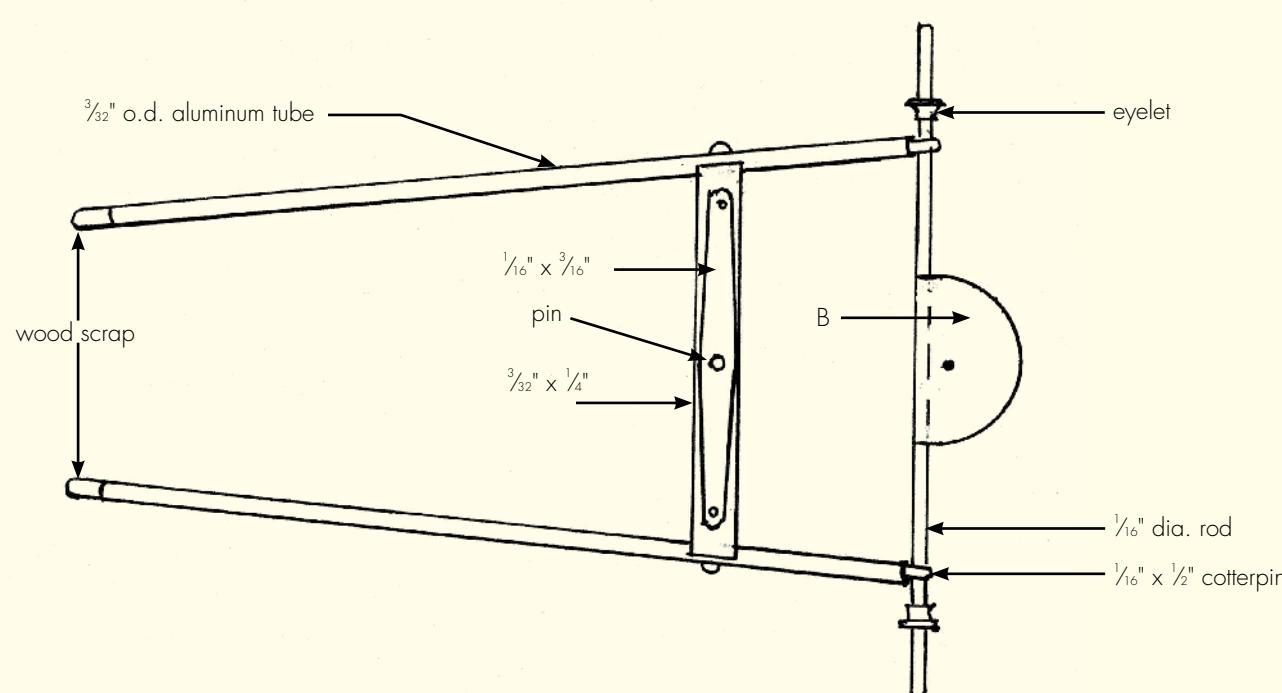


end view

FRONT AXLE

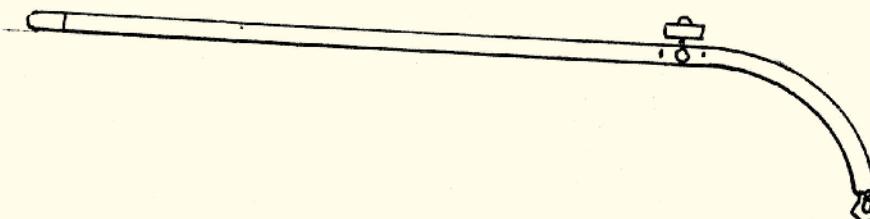


top view



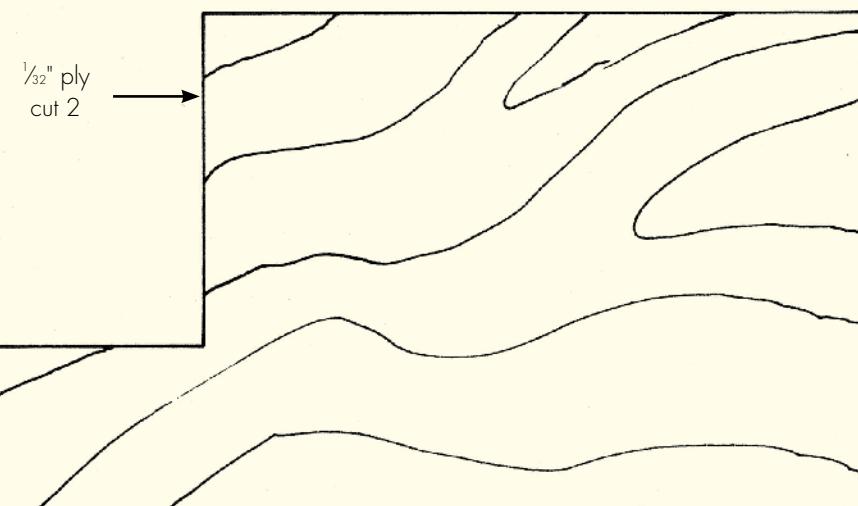
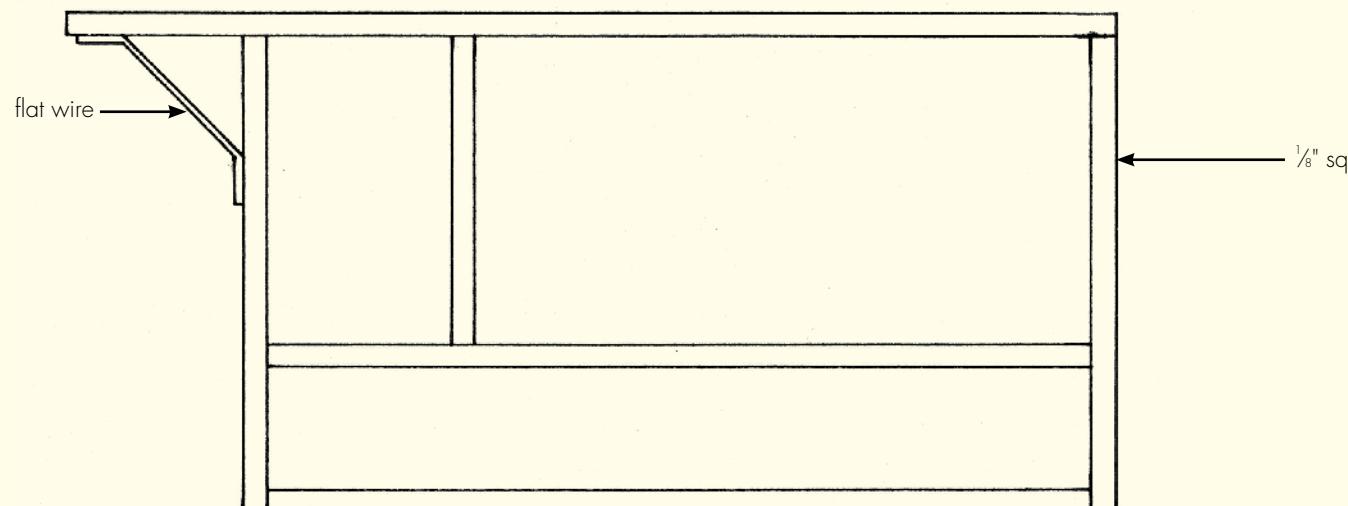
side view

SHAFT



side view

FRAME - MAKE 2
(a left and a right)



If you are modeling a railroad in a period prior to 1920, then you will need a supply of horse-drawn vehicles. This is the forth of several to be offered. The delivery wagon was the classic light transport of its day, comparable to the small van of today. The wheels for this vehicle are made from laser-cut ply and basswood. They are assembled according to the instructions that come with the wheels. They should be sealed with clear lacquer and, when dry, painted to suit.

Construction

Begin by assembling the frame. When finished, make the front axle and shafts. When both of these assemblies are done, seal them with clear lacquer and, when dry, paint them a trim color of your choice. When the paint has been allowed to dry for at least 24 hours, fit these two parts together with a pin through the A/B plates. Now, make the wheels according to the instructions and paint them as above. When they have been allowed to dry for at least 24 hours, they can be fitted on the axles and permanently fixed in place with small eyelets glued to the ends of the axles (be careful to avoid getting glue on the wheel hubs).

The body

Now make the body. Begin with the frames shown on the plan. Either pine or firm balsa will do. Cut out two backing pieces from $1/32$ " plywood. Glue these to the inside of each frame. Now make the floor. Cut a piece of $1/8$ " firm balsa, $2\frac{1}{8}$ " x $5\frac{1}{8}$ ". Bevel the front edge 45 degrees. Fit and glue a piece of pine or bass, $1/16$ " x $5/8$ " x $2\frac{1}{8}$ " to the front. Sand the bottom edge smooth and flush. Now glue the sides in place. Cut out the print-wood parts from the $1/16$ " stock (firm balsa will do nicely). Fit and glue the roof frames (F & R) in place. Make the roof from $1/32$ " plywood, $2\frac{1}{16}$ " wide x $5\frac{1}{16}$ " long. At this point, seal the body with clear lacquer. When dry, paint the body to suit.

Details

Now the details, such as the seat and tailgate can be made. These should be sealed and painted before gluing them in place. The cloth flap at the rear should be added last. First, seal the cloth with two coats of clear lacquer, then iron the cloth flat. Finally, cut out the flap and attach it to the roof frame with a piece of $1/16$ " x $1/8$ " strip and five pins.

The body can now be glued in place on the frame. Any signage can be made at this time. Signs can be made on your computer and printed on cover stock. Cut them out and glue them in place.

Finally, a brake can be fitted to the wagon. Make the handle from flat wire and connect it to the brakes with a chain fixed at the mid point of the brake rod. In operation, the brake rod was actually split in the middle and, when pulled, the brakes would engage the wheels.

* * *

This sheet is a supplement to the April 2006 issue of *Garden Railways* magazine. While supplies last, extra copies of these drawings can be had by sending \$1.50 per set (\$2.00 foreign) to: Sidestreet Bannerworks, PO Box 460222, Denver CO 80246 USA. A complete list of available plans can be found at www.sidestreet.info, or send a stamped, self-addressed envelope to the above address.

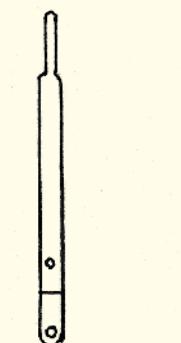
A complete kit for this project (including wheels) is available from Northeast Narrow Gauge for \$29.95 + \$6 s&h. Wheels are available separately for \$6 per set + \$2.50 shipping per set. Order from Northeast Narrow Gauge, PO Box 191, Wiscasset ME 04578. Web site: www.nemodel.com

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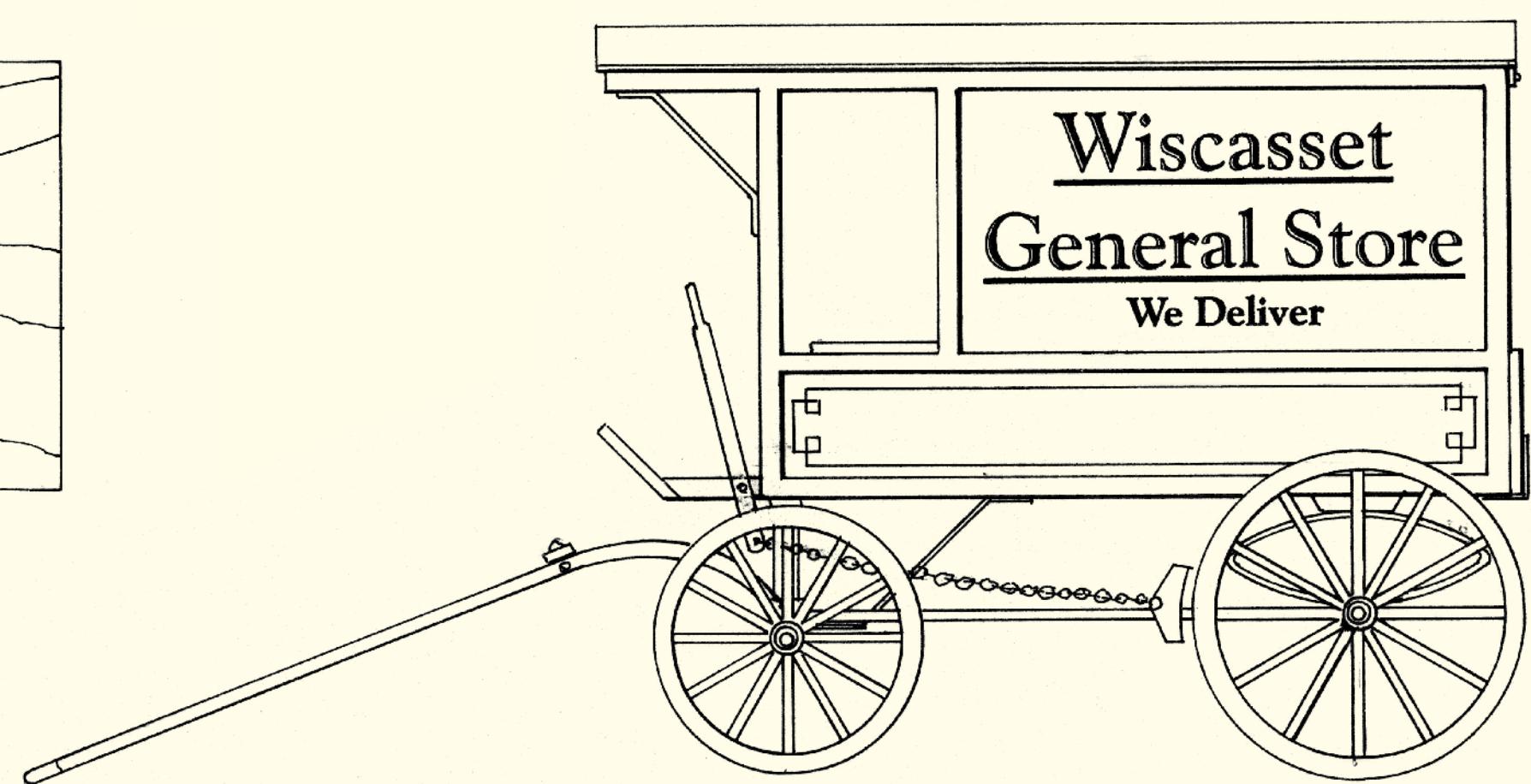
brake handle

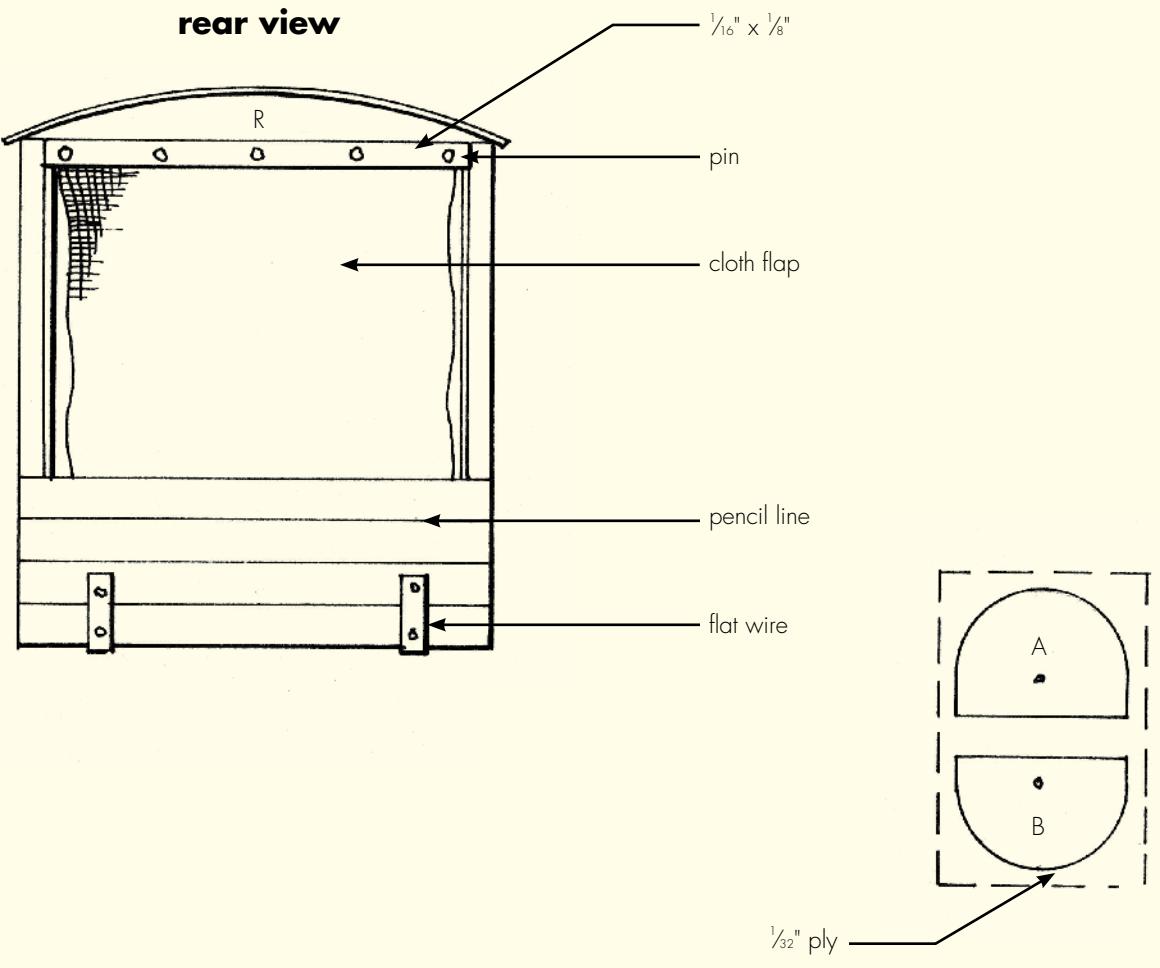
MAKE FROM FLAT WIRe

run chain from handle
to midpoint of brake rod



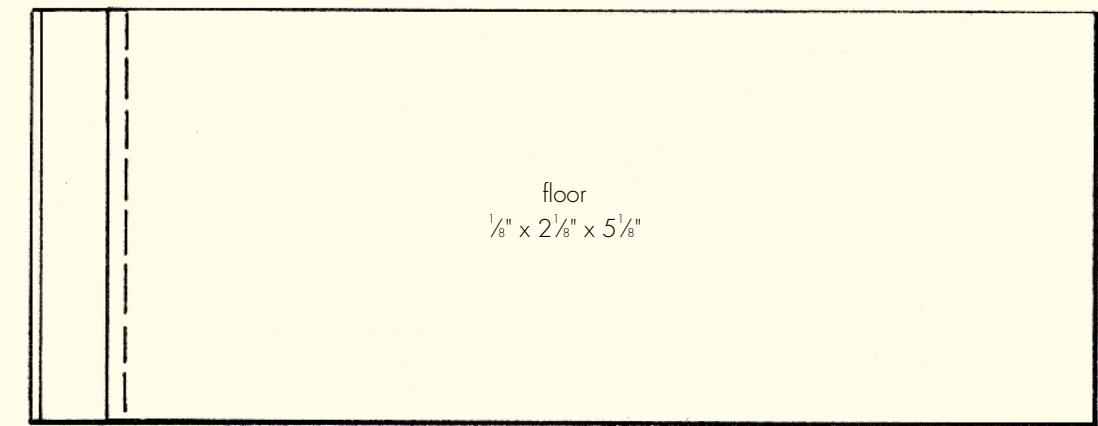
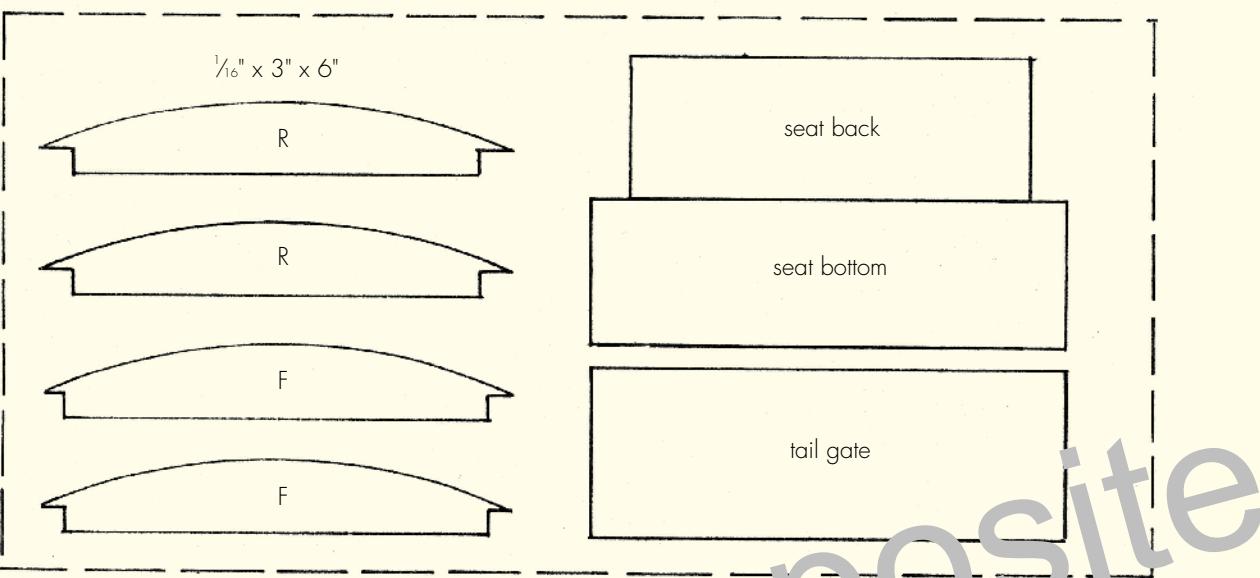
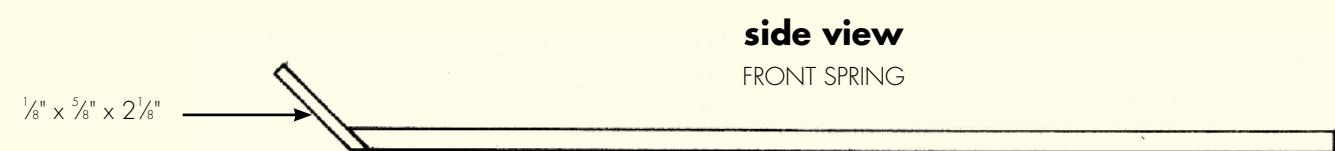
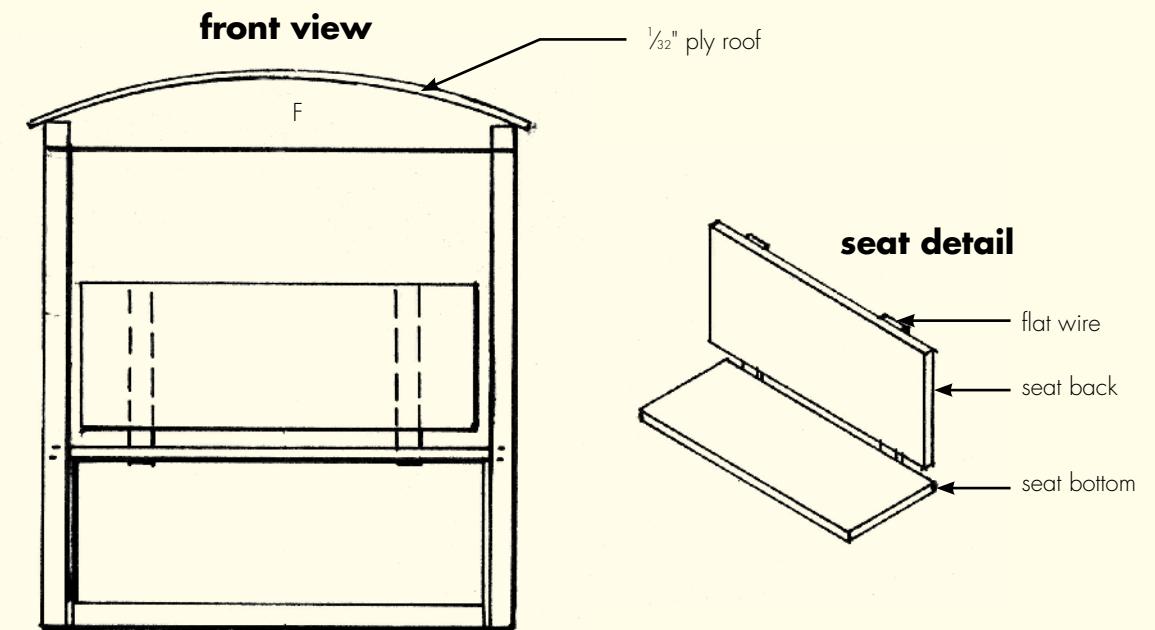
Wiscasset
General Store
We Deliver



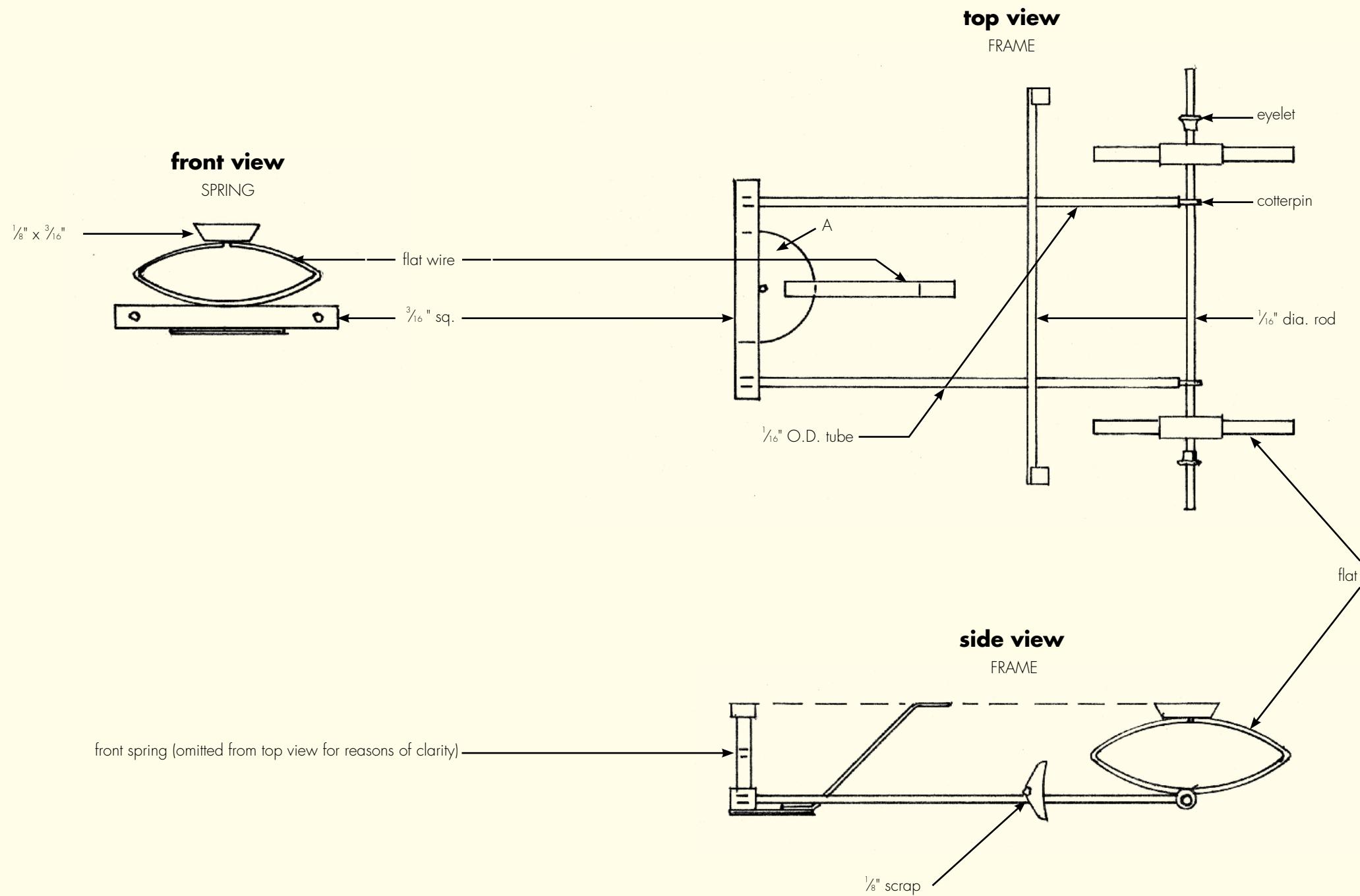


Are you working in a different scale?

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 (7/8") scale, enlarge these drawings to 148%.

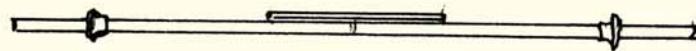


Composite
View

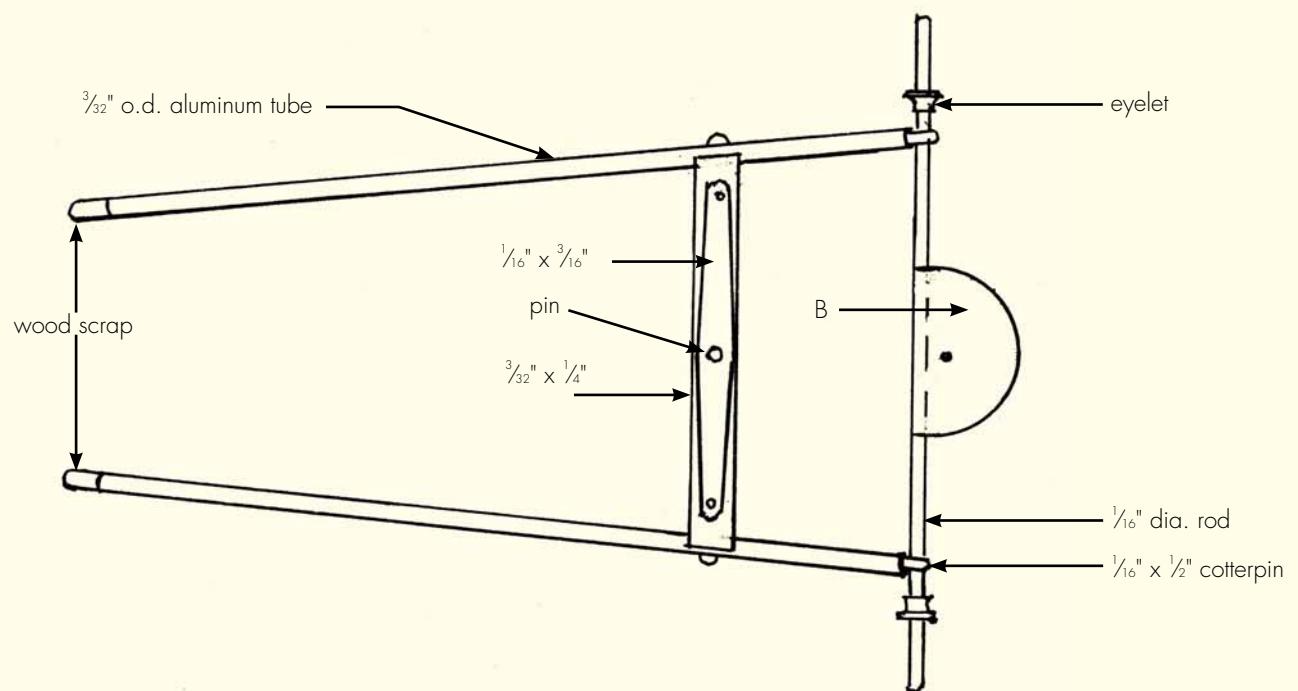


end view

FRONT AXLE

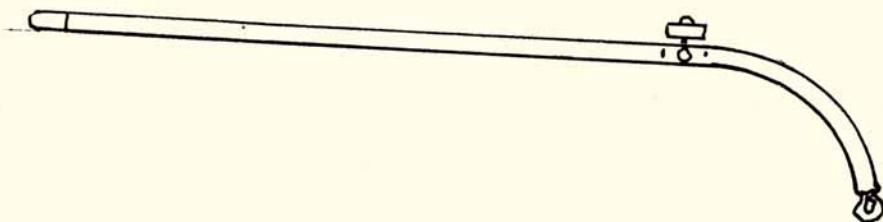


top view



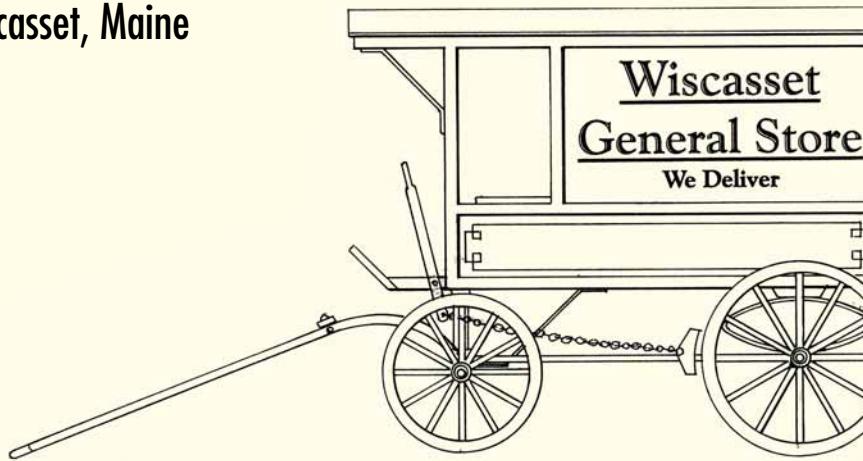
side view

SHAFT



1:20.3-scale delivery wagon

by Ted Stinson | Wiscasset, Maine



- eyelet

If you are modeling a railroad in a period prior to 1920, then you will need a supply of horse-drawn vehicles. Several to be offered. The delivery wagon was the classic light transport of its day, comparable to the small vans. The wheels for this vehicle are made from laser-cut ply and basswood. They are assembled according to the instructions with the wheels. They should be sealed with clear lacquer and, when dry, painted to suit.

Construction

Begin by assembling the frame. When finished, make the front axle and shafts. When both of these assemblies are dry, seal them with clear lacquer and, when dry, paint them a trim color of your choice. When the paint has been allowed to dry for at least 24 hours, fit these two parts together with a pin through the A/B ply plates. Now, make the wheels according to the instructions and paint them as above. When they have been allowed to dry for at least 24 hours, they can be fitted on the axle and fixed in place with small eyelets glued to the ends of the axles (be careful to avoid getting glue on the wheel hub).

The body

Now make the body. Begin with the frames shown on the plan. Either pine or firm balsa will do. Cut out two balsa frames from $\frac{1}{32}$ " plywood. Glue these to the inside of each frame. Now make the floor. Cut a piece of $\frac{1}{8}$ " firm balsa, $2\frac{1}{8}$ " wide x $2\frac{1}{8}$ " long x $\frac{1}{16}$ " thick. Sand the top edge at a 45-degree angle to the front edge. Fit and glue a piece of pine or bass, $\frac{1}{16}$ " x $\frac{5}{8}$ " x $2\frac{1}{8}$ " to the front. Sand the bottom edge to a 45-degree angle. Now glue the sides in place. Cut out the print-wood parts from the $\frac{1}{16}$ " stock (firm balsa will do nicely). Fit the front and rear frames (F & R) in place. Make the roof from $\frac{1}{32}$ " plywood, $2\frac{9}{16}$ " wide x $5\frac{9}{16}$ " long. At this point, seal the body with clear lacquer and, when dry, paint the body to suit.

Details

Now the details, such as the seat and tailgate can be made. These should be sealed and painted before gluing to the body. The cloth flap at the rear should be added last. First, seal the cloth with two coats of clear lacquer, then iron the cloth to flatten it. Cut out the flap and attach it to the roof frame with a piece of $\frac{1}{16}$ " x $\frac{1}{8}$ " strip and five pins.

The body can now be glued in place on the frame. Any signage can be made at this time. Signs can be made from paper and printed on cover stock. Cut them out and glue them in place.

Finally, a brake can be fitted to the wagon. Make the handle from flat wire and connect it to the brakes with a mid point of the brake rod. In operation, the brake rod was actually split in the middle and, when pulled, the brake would stop the wheels.

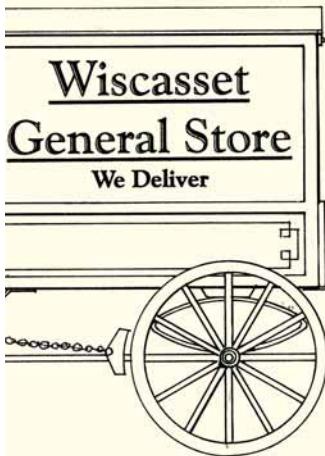
* * *

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Plan set #76



y of horse-drawn vehicles. This is the forth of
comparable to the small van of today. The
oled according to the instructions that come
to suit.

In both of these assemblies are done, seal them
e paint has been allowed to dry for at least 24
e the wheels according to the instructions and
ey can be fitted on the axles and permanently
getting glue on the wheel hubs).

balsa will do. Cut out two backing pieces from
piece of $\frac{1}{8}$ " firm balsa, $2\frac{1}{8}$ " x $5\frac{1}{8}$ ". Bevel the
front. Sand the bottom edge smooth and flush.
(m balsa will do nicely). Fit and glue the roof
At this point, seal the body with clear lacquer.

I and painted before gluing them in place. The
ear lacquer, then iron the cloth flat. Finally, cut
pins.

his time. Signs can be made on your computer

onnect it to the brakes with a chain fixed at the
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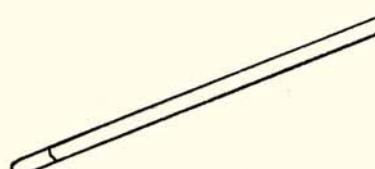
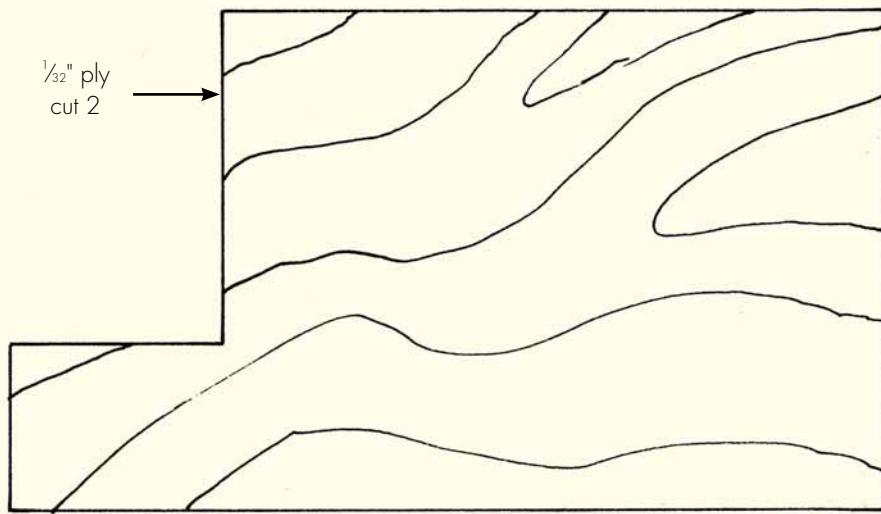
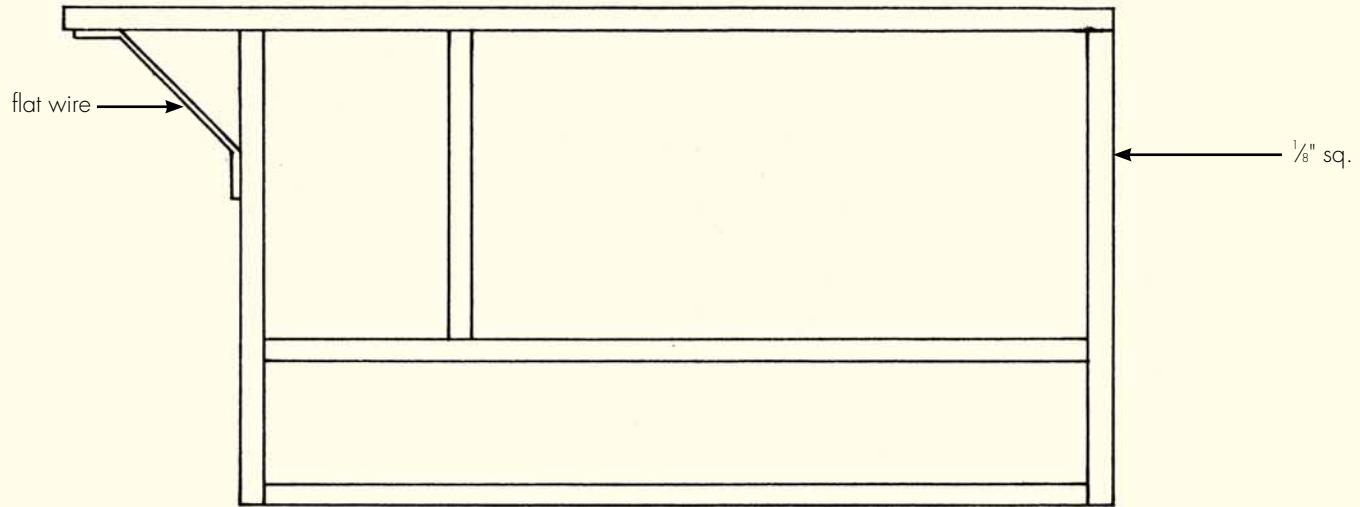
arrow Gauge for \$29.95 + \$6 s&h. Wheels are
st Narrow Gauge, PO Box 191, Wiscasset ME

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side view

FRAME - MAKE 2
(a left and a right)



complete list of available plans can be found at www.sidestreet.info, or send a stamped, self-addressed envelope.

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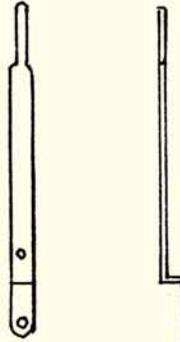
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$\frac{1}{8}$ " sq.

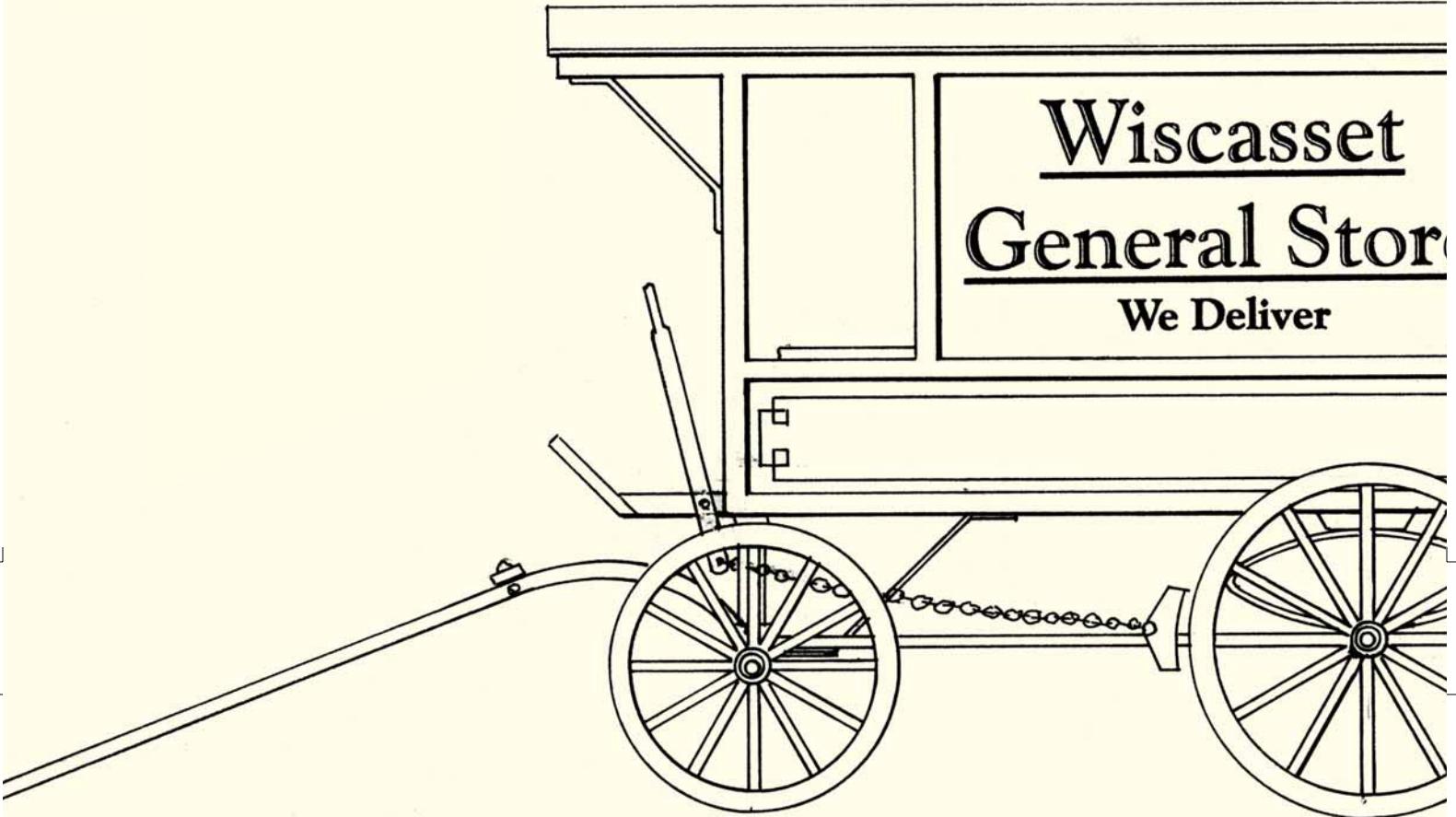
brake handle

MAKE FROM FLAT WIRE

run chain from handle
to midpoint of brake rod



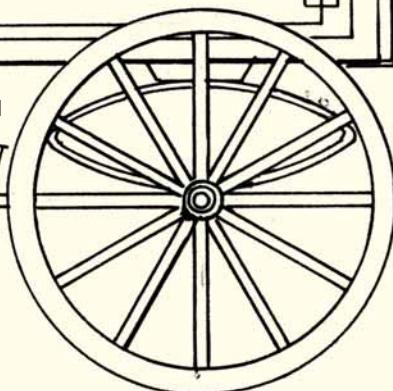
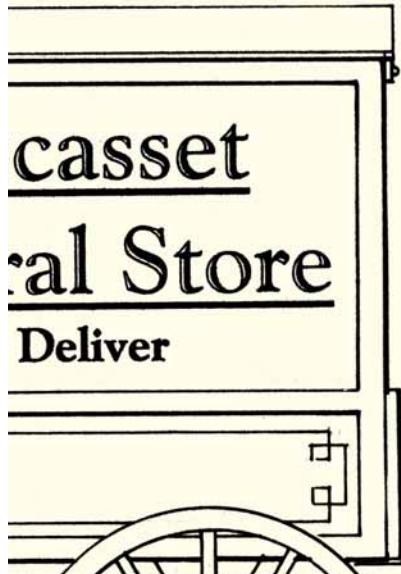
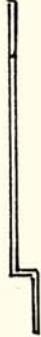
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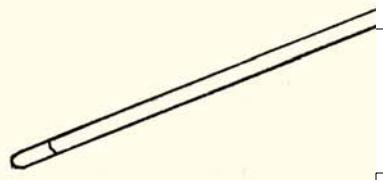


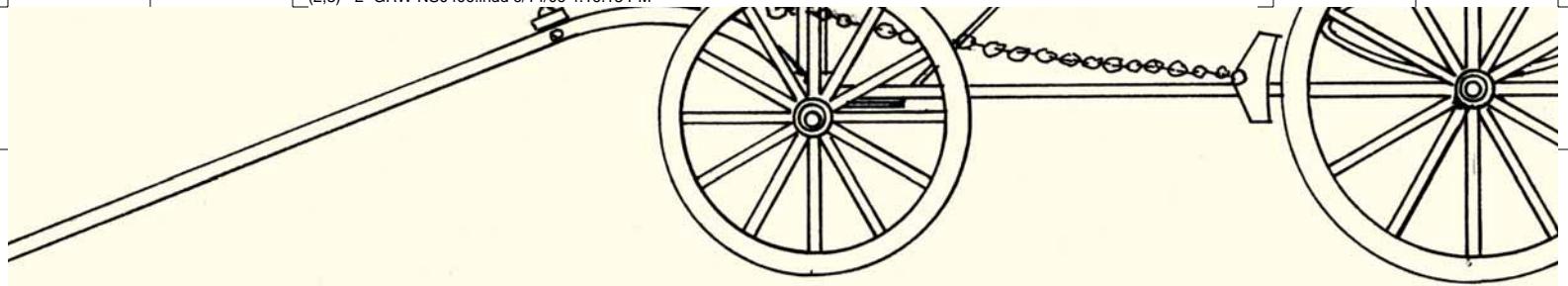
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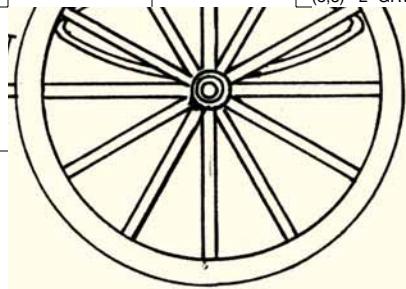
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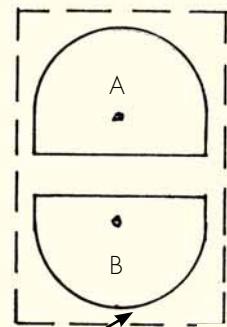
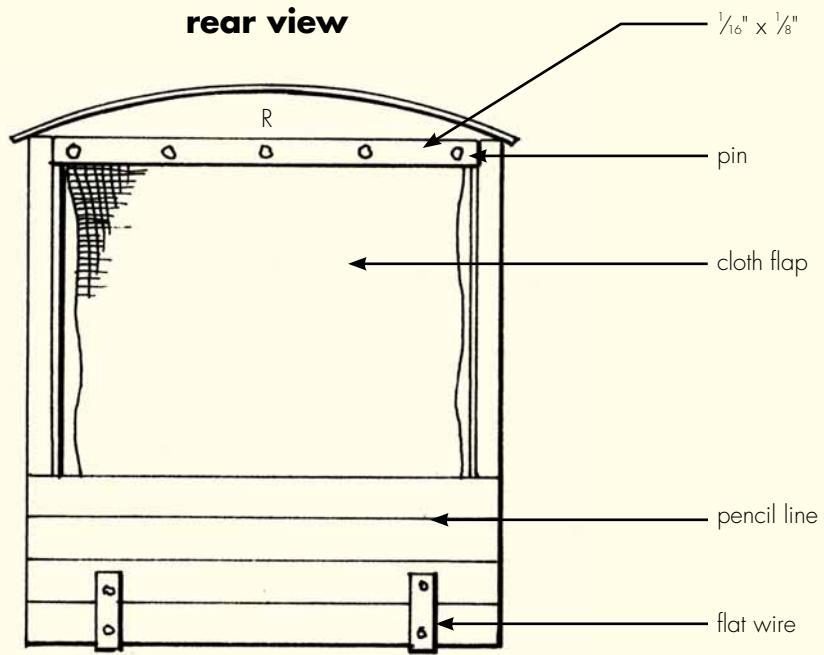




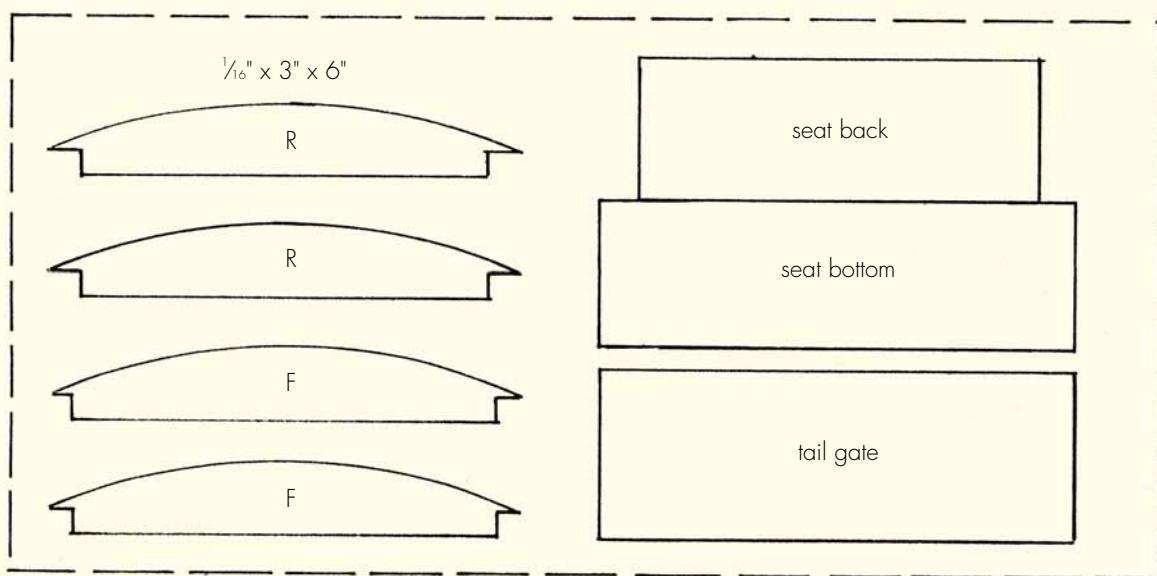




rear view



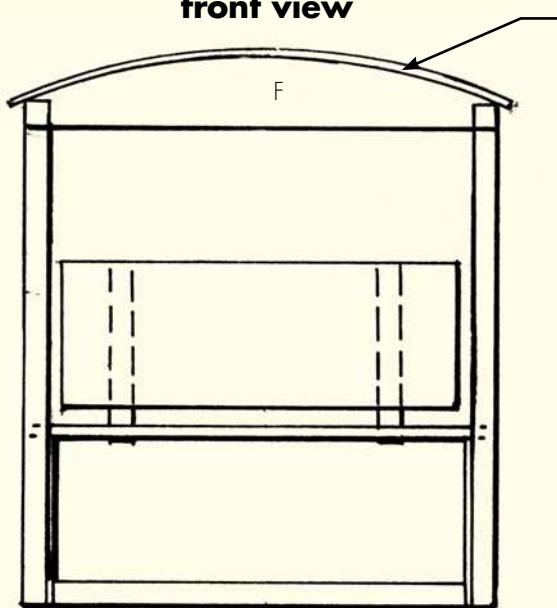
$\frac{1}{32}''$ ply



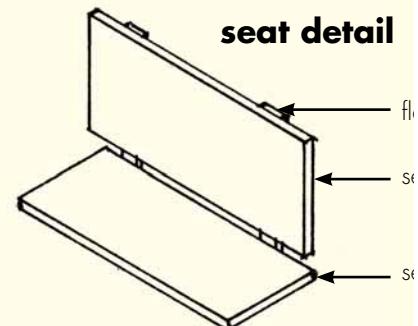
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If you are working in 1:22.5 scale, reduce these drawings to 90%
If you are working in 16mm scale, enlarge these drawings to 1
If you are working in 1:13.7 ($\frac{7}{8}$ " scale), enlarge these drawing

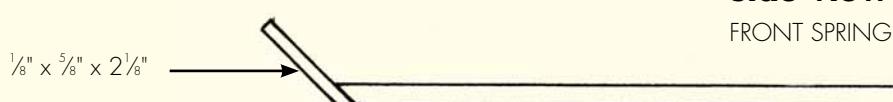
front view



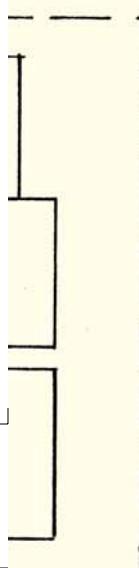
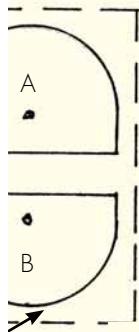
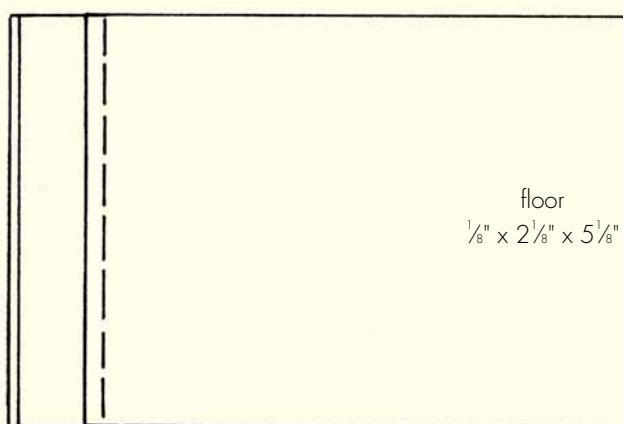
seat detail



side view



top view

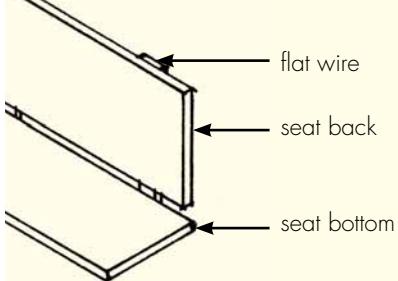


ent scale?

duce these drawings to 63%.
duce these drawings to 70%.
duce these drawings to 88%.
reduce these drawings to 90%.
enlarge these drawings to 107%.
scale, enlarge these drawings to 148%.

of

seat detail



EW
NG

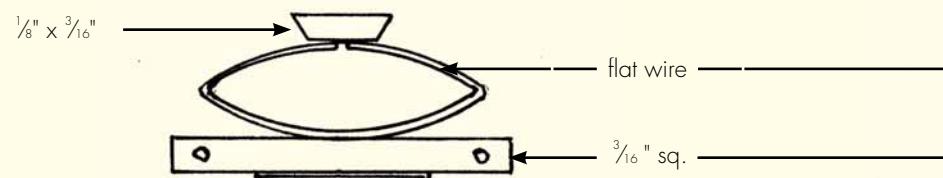
W

5 $\frac{1}{8}$ "



front view

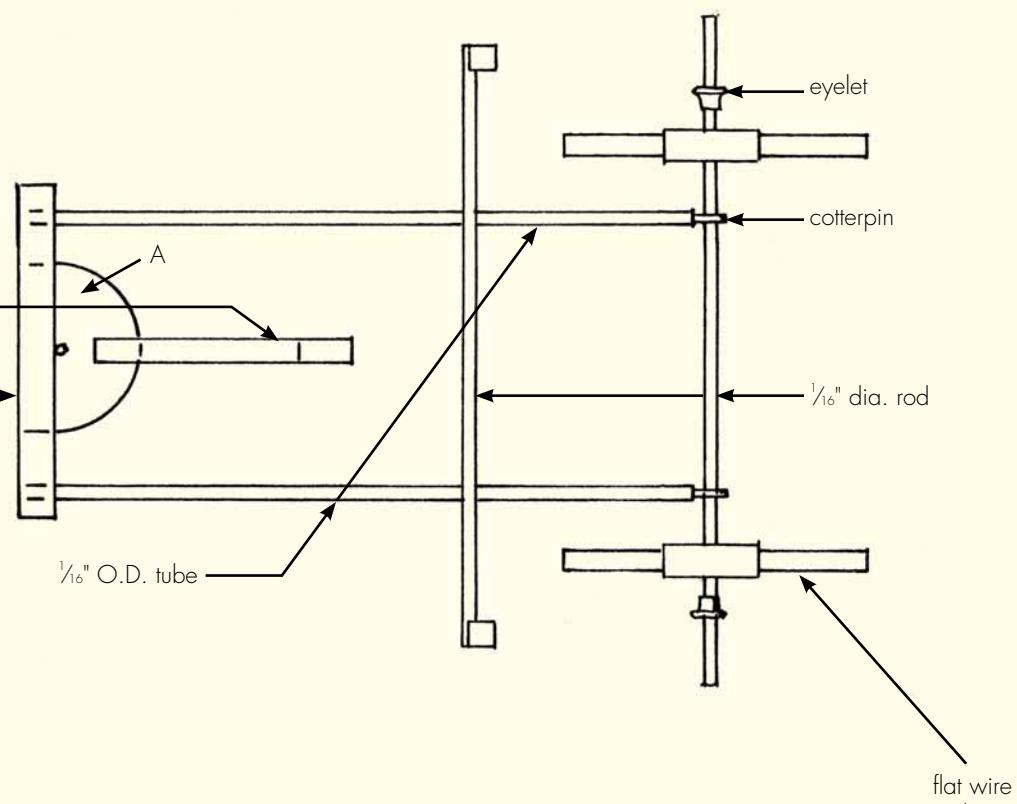
SPRING



front spring (omitted from top view for reasons of clarity)

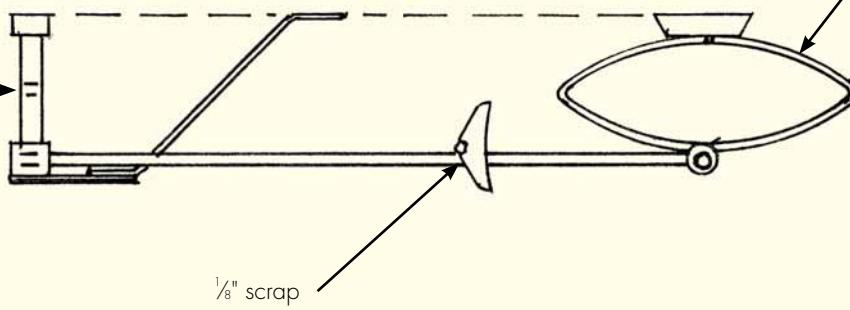
top view

FRAME



side view

FRAME



let

□

erpin

dia. rod

□

flat wire

$\frac{1}{8}$ " scrap

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