

# ABANDONED WAGON

28MM/30MM SCALE  
CARDSTOCK MODEL FILES  
BY DAVE GRAFFAM  
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## GLUE AND PAPER TIPS

To get the best results, you really need to experiment with different papers and glues, and take advantage of whatever printing methods are available to you.

In general, you want to print on the heaviest paper you can find. I prefer a 110# (199 gsm) matte cardstock, but any matte photo stock should work.

The best choice of paper and glue will depend a lot on the printing method that you choose. Desktop ink prints will be more likely to smear when you apply a wet glue to them, so you should look for a low-moisture, tacky glue. I've found that a carpenter's indoor wood glue works well for my projects, but there are lots of others that will work. Ordinary white school glue might be just fine.

A little bit of glue is usually all that's required. A thin and even coat is much better than a heavy glob of glue. I keep a supply of small squares of excess cardstock, and use the edges of those squares to spread glue evenly. It's a good idea to keep some slightly-damp tissue if you need to wipe up extra glue, but be careful about this is if you're using ink-based prints.

## USING THE TEXTURE LAYERS

This product contains PDF files with multiple layers that you can make visible or invisible. When you open a file, you'll see the default design. To make changes, open the Layers menu and expand the Layers Palette to reveal the selection of layers. Some of the layers will be visible; others will be invisible. Click on the 'eye' icon to change a layer's visibility. Choose your surface textures and add or remove external features. When you're happy with your design, just print it off.

## PRINTING TIPS

These files are set up for the standard 28mm-30mm tabletop wargaming scale, and for US letter-sized (8.5" x 11") sheets. Turn off any 'fit to page' options in your printer driver. If you are printing on A4-sized sheets, you may want to reduce the print size to 95% of the original. Do this consistently when printing these files.

Print on heavy cardstock whenever possible. You can create super-sturdy models by printing on plain paper and then gluing this to a heavy bristol board before cutting.

## DIFFERENT SCALES

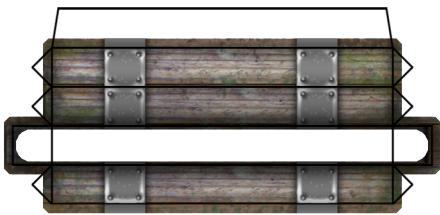
To print at a smaller scale, use the table below and change your print size percentage.

SCALE	%
28mm	95%
25mm	84%
20mm	65%
18mm (HO)	60%
15mm	50%
12mm	40%
10mm (N)	34%
8mm	27%
(Z)	23%
6mm	20%

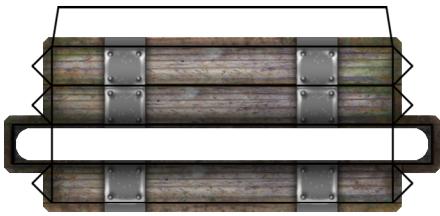
## **ASSEMBLY**

- 1) Score along the line running vertically between the Wheels pieces. To score a line, lightly drag your hobby knife along it, applying enough pressure to make the paper easier to fold but not enough to cut all the way through.
- 2) Cut out all of the pieces along their outer black lines, and cut along the horizontal lines between the Wheels.
- 3) Score the remaining black lines.
- 4) Assemble the Under Carriage and Bed, and glue these together.
- 5) Assemble the Axles and glue these to the Under Carriage.
- 6) Assemble the Tongue (or Hitching Poles) and glue it (them) in place at front of the Undercarriage and Bed.
- 7) Assemble the Tongue Crosspiece and affix it to the Tongue (unless using Hitching Poles).
- 8) Fold the Wheels into double-sided pieces, apply glue to their unprinted sides and press them flat.
- 9) Cut along the Wheels' outer black lines.
- 10) Affix the Wheels to the ends of the Axles.
- 11) Optionally, you may add a canvas cover.
- 12) Your model is now complete.



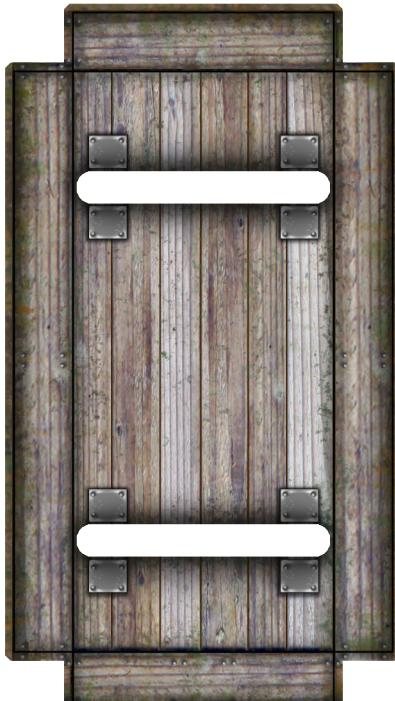


▼ AXLES ▲



ABANDONED  
WAGON  
MAIN  
STRUCTURE

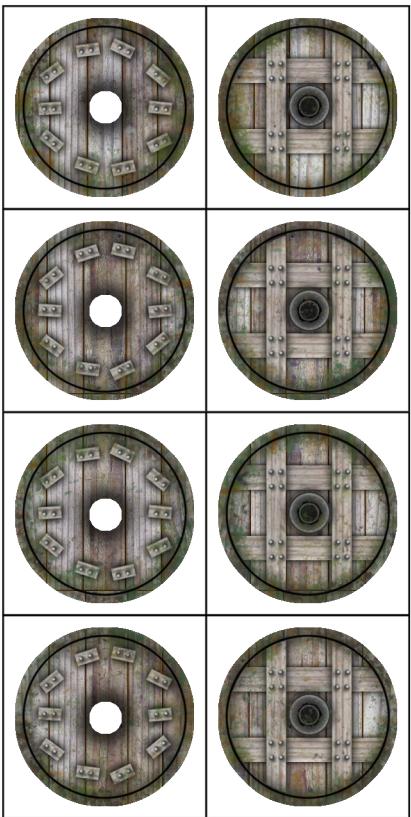
UNDER CARRIAGE ▼



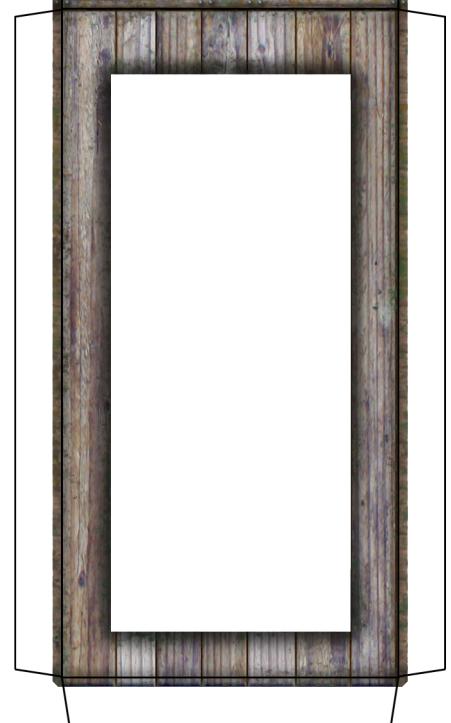
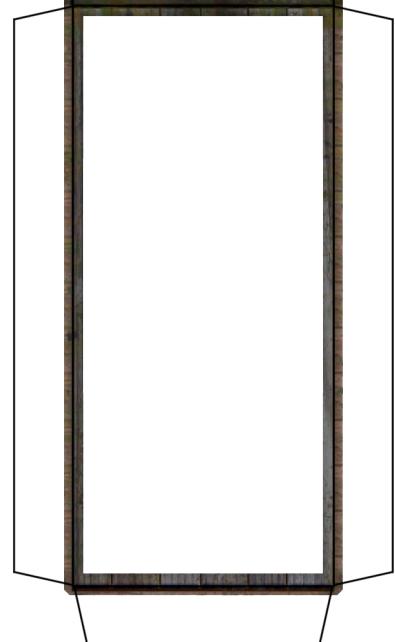
BED ▼



Carefully score ▼ along this line



▼ WHEELS



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DECORATIVE SIDE SLATS ▲



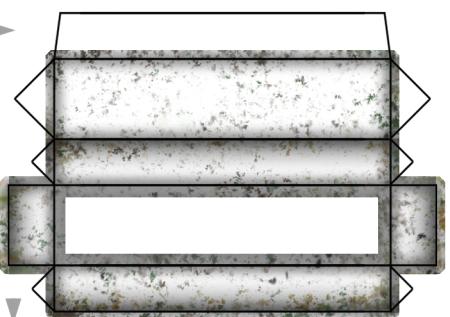
SHORT SIDE SLATS ▲

This sheet contains optional components for your wagon. You may choose *any one* of the Decorative, Short or Tall Side Slats, and *any one* of the Short, Tall or Mixed Front/Rear Slats. These are to be glued to the edges of your Bed piece.

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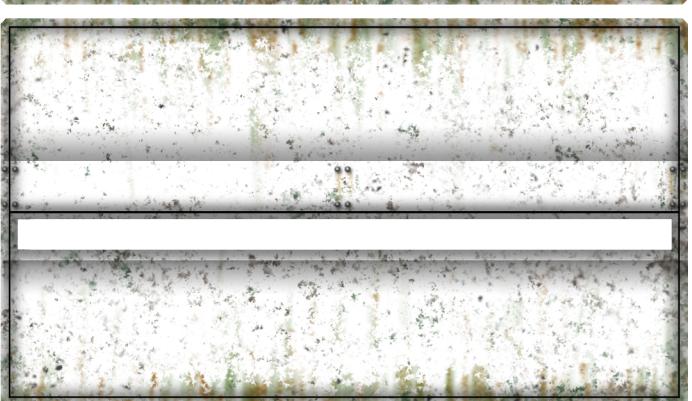
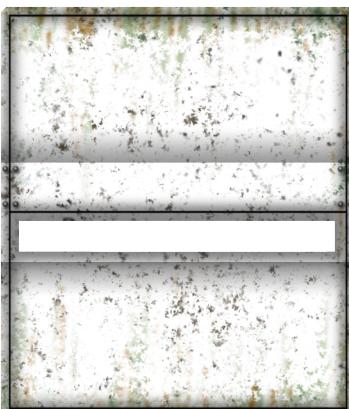
DRIVER'S SEAT ▲

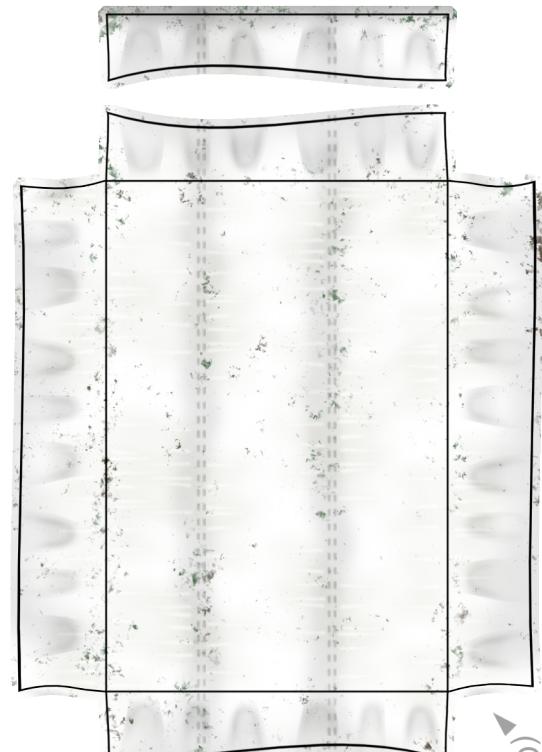


TALL SIDE SLATS ▼

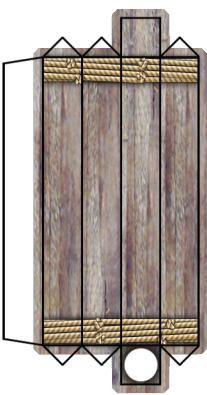
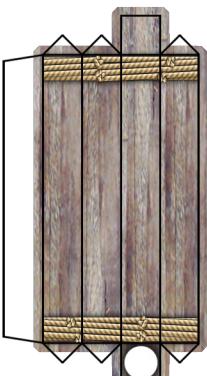


▼ SHORT FRONT/REAR SLATS





▼ POSTS ▼

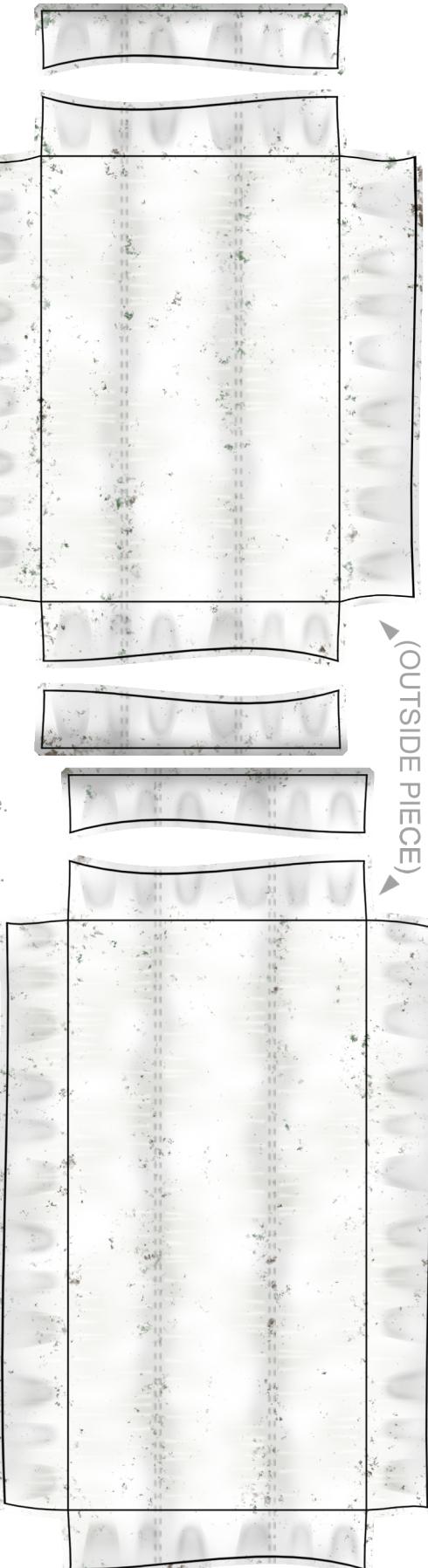


▲ SHORT  
FLAT-TOP COVER  
(INSIDE PIECES) ▶

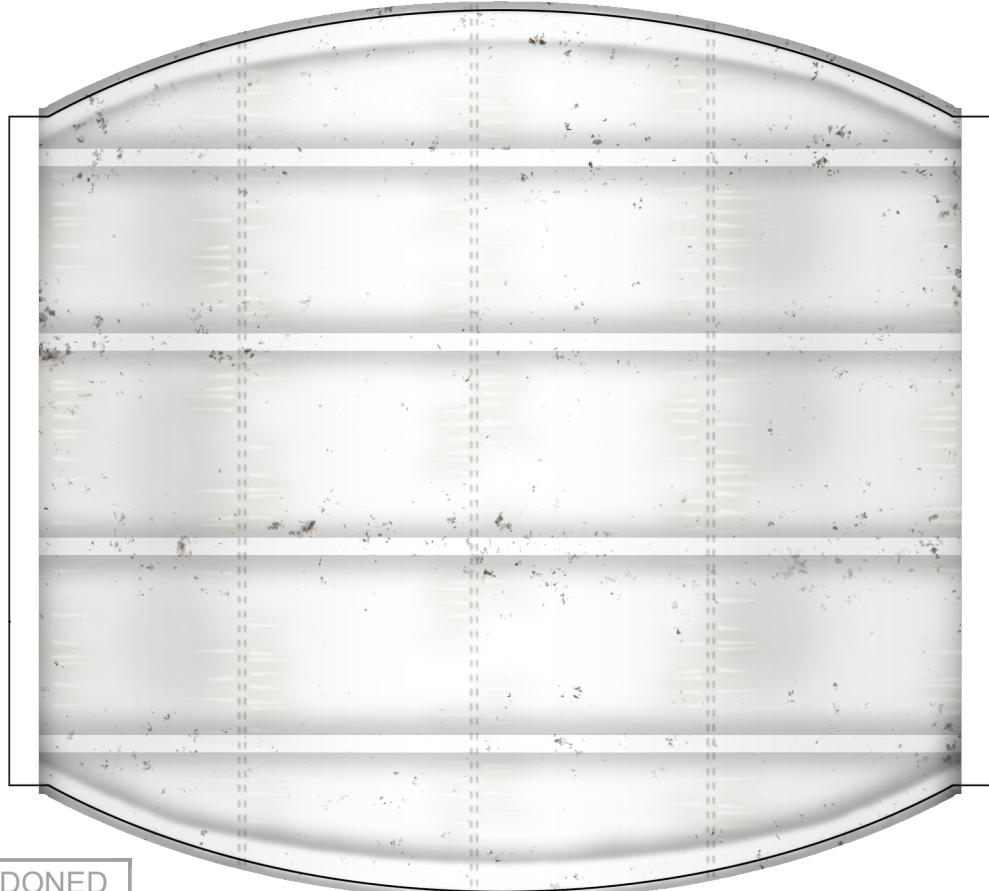
ASSEMBLY: 1) Cut out all of the pieces along their outer black lines. 2) Score the remaining black lines. 3) Assemble the Posts and glue them in place on your wagon's Main Bed piece. 4) Affix the Flat-Top Cover's Inside Pieces to the unprinted side of the cover's Outside Piece. 5) Affix your cover to the top of the Posts. 6) Glue the cover's side-flaps to the posts with a drop of glue near the top of the post.

TALL  
FLAT-TOP COVER  
▼ (INSIDE PIECES) ▶

ABANDONED  
WAGON  
FLAT-TOP  
COVERS



▲ LONG ROUNDED COVER (OUTSIDE PIECE)



ABANDONED  
WAGON  
ROUNDED  
COVERS

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LONG ROUNDED COVER (INSIDE PIECE)▲

