

# Constructing the SierraWest Linn Tractors - 3D Printed Kits

by Brett Gallant

Please handle these parts very carefully! While I use a high strength tooling resin that is very flexible and strong, these parts contain incredibly fine detail that must be handled carefully to prevent damage. I always recommend test fitting all parts prior to assembly to familiarize yourself with the proper fit and orientation. Before you begin construction be sure to download: *"Working with SierraWest 3D Printed Castings"*. These instructions cover all of the basics and provide essential information you will require before proceeding. There is a wealth of information Online about the history of the Linn Tractor as well as many examples of the various paint schemes. Please visit the "University" link on my website for more relevant instructions and videos.

## General Notes

These instructions will cover both the Stake Bed and Haul Body variations in HO and O scales. Specific callouts will be provided as needed for the differences between these.

As with nearly all SierraWest 3D Printed parts, the supports are removed in house. On highly detailed castings like these, you may find very fine, thin supports that are easily removed with a pair of tweezers. Remnants of supports may be filed or gently scraped away with a sharp blade tip.

Test the fit of the four wheels and steering wheel. Use a very light touch and a hand drill bit to insure these parts fit correctly

Gently file the front and rear bottom edges of the cab and hood to insure a good fit once these parts are installed. A small ridge may form during the 3D Printing process.

Prepare and prime all of the 3D Printed parts as outlined in the *"Working with SierraWest 3D Printed Castings"* download. Allow the primer to fully cure before proceeding. I primed all of the parts in this kit with a quality flat black spray paint. Except for the primer, all paint used is AK Interactive 3rd Generation water based paint. (Unless otherwise noted).

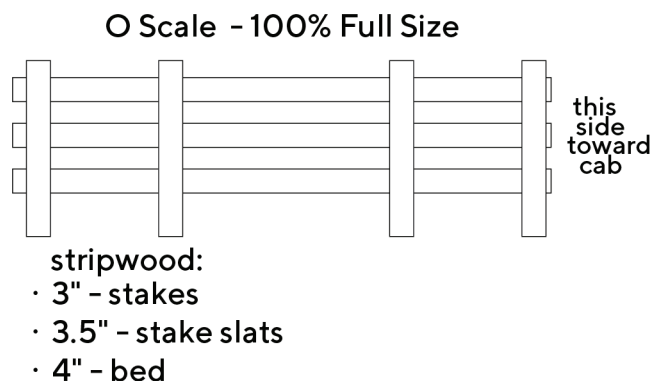
Paint both sides and the edges of the laser cut cardboard roof with the same black spray paint used to prime the 3D Printed parts.

Locate the laser cut window acetate. Handle with tweezers to avoid getting finger prints on the material. Remove the paper backing and apply chalk weathering to dirty the windows. Any cracks or holes may be added with the tip of a number 11 blade as desired.

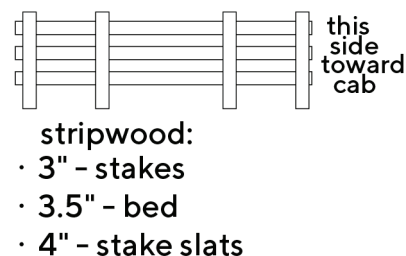
## The Stake Bed

Use the templates supplied below to cut the appropriate wood to length. Please be sure you have printed them with your printer settings at "full size".

Brush the exposed ends to remove the freshly cut appearance. Next review the videos at the University link on my website "Adding Details to Stripwood" and "Weathering Scale Stripwood with Artist Chalk". Add desired details and then stain. Once dry construct two stake bed side frames. Note the side with the shorter slat overhang faces the front or cab.



## HO Scale - 100% Full Size



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## *Painting Suggestions*

Paint all the components except the cab Brick Red. Paint the rubber tires and links on the track assemblies Burnt Umber. Allow to thoroughly dry. Paint the cab Reddish Grey over the primed black on the exterior of the cab and the main stake bed body just painted Brick Red. This provides a nice contrast. Use the technique described in the "Chipped Paint Effects" video to achieve the desired peeled paint appearance. Paint the interior of the cab Leather Brown. Apply chalk weathering once dry as desired.

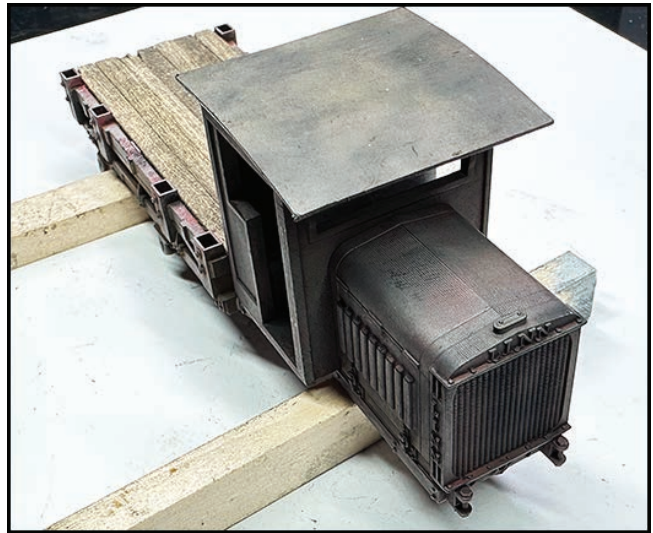


## *Complete the Cab*

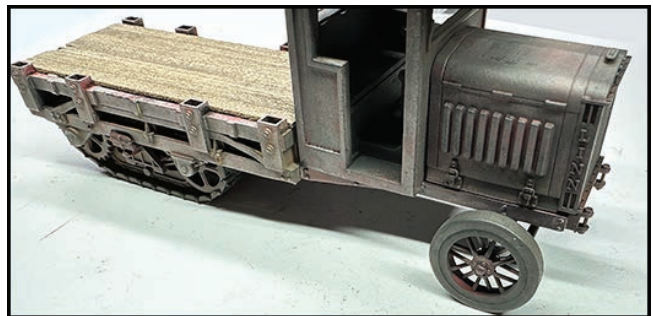
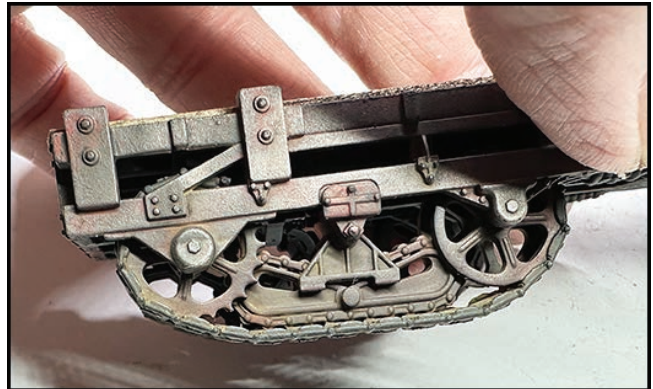
Start by installing the laser cut windows. Use tiny drops of Cyanoacrylate (super glue) applied with the tip of your blade to the inside frame of the windows. Do one at a time. Excess glue will ooze out and be visible from the outside. Use the smallest amount necessary to hold the acetate securely in place. Glue the steering wheel in place. Paint and weather the laser cut chipboard roof then glue in place.

## *Complete the Stake Bed Truck*

O Scale only: Glue the flat front frame member to the rear stake bed assembly. Glue the cab and hood/radiator assembly in place then add the deck boards.



Glue the two rear tread assemblies in place as shown below. Glue the two front wheels to the front axle assembly then glue the assembly in place.



Glue the front engine crank, cab steps, and headlights in place then add the stripwood stake assemblies (completed earlier) in place.



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## *The Haul Body*

Construction sequence is identical as the Stake body. I will simply highlight any significant differences.

## *Painting Suggestions*

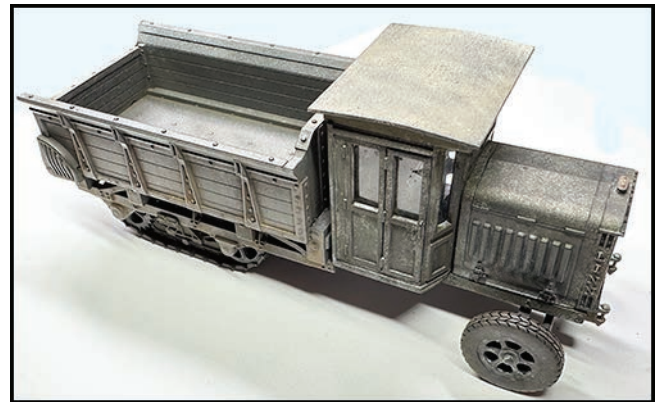
Paint all the main haul body piece Dark Rust over the primed black, allow to dry, then use the technique described in the "Chipped Paint Effects" video to apply a chipped paint layer of Neutral Grey over the red. Apply a chalk weather finish once dry.



Paint the remaining components Pale Grey as shown. Paint the rubber tires and links on the track Burnt Umber. Allow to thoroughly dry. Use the chipping technique and add a final layer over the Grey with Intermediate Green. Chalk weather once dry.

## *Assemble the Components*

Add the mylar, steering wheel, roof, then doors. Complete the assembly as described for the Stake body.





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