



All Nation Windsplitter

Description, Parts List & Assembly

These assembly guidelines pertain to the Windsplitter Interurban Kits

<https://allnationline.com/WP/?product=windsplitter-interurban-o-scale-beginners-kit-of-traction-modelers-3d-printed-pn9k>

and

<https://allnationline.com/WP/?product=o-scale-metal-sided-windsplitter-interurban-beginners-kit-of-o-scale-traction-modelers-3d-printed-pn10k>

the original longer wood version and the metal side shorter model depicting these cars are based on the prototypes.

Relatively simply to assemble, for these basic beginner kits the following items will be required for success.

- **Parchment Paper**
- **1 Tube of CA glue**
- **a Couple of files**
- **Mitre Box**

Possibly a fixture such as a piece of aluminum angle for use in

gluing parts at right angles.



Upon inspecting the parts that come with the kits, note that the 3D printed parts are sliced and configured to achieve the best possible detail fidelity to the prototype. The trade off of course is a slightly increased amount of assembly work and gluing up of the component parts.

In this write-up, we will refer to the longer wood car as part number PN9K and can be recognized as the green car. The shorter steel version of the car as part number PN10K and recognized on our website as the red car.

Note that the parts in the kit may be delivered in multiple colors. The color of the parts in the kit have no bearing on the process or procedures for construction of these kits. The guidelines here are suggestions to the modeler only as there are more than one way toward thinking about how to build the model out. For example, keep in mind how to go about priming and painting the model based on the railroad being modeled or how if super detailing is to take place, one might want the roof to be removable.

The modeler after taking inventory of the parts must inspect and clean up the parts from the 3D printing process. Brims, threads or sprues must be peeled off, filed or sanded cleanly before assembly.

The roof parts for the PN9K are 6 pieces that must be matched and glued up to become one piece. The reason is the roof profile is quite intricate and the car is very long.



Once the parts are cleaned of excess build material, the modeler can start laying out and matching up the pieces by first taking the wider middle sections and placing them end to end. Notice the front end profile differs from the rear end profile. Now you can lay out the right and left sides of the roof against the middle sections noting how the edge of the parts match the contour of the sloping car ends.

Next, glue the sides to the middle section of the roof, once all the glue sets, you are now ready to glue the two roof piece together for one solid roof component. Careful attention to the seams will make for a better finished model.



For the steel side car PN10K, the roof is printed in two pieces and only needs to be glued in the mid-section to form one solid component.



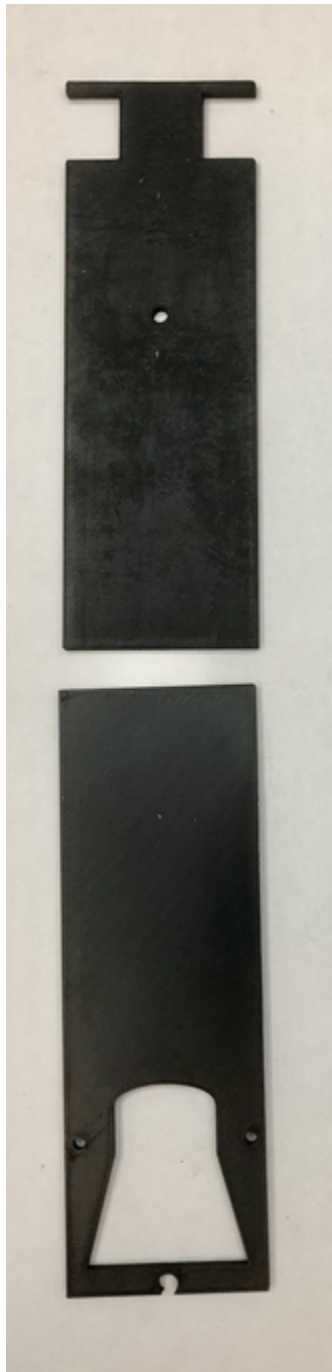
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And like the roof whereby gluing the 2 halves, the same for both the floor and the car sides for both PN9K and PN10K will be a prerequisite before assembling the body parts together.



The front of the floor opening accommodates a power truck while the rear has a pilot hole for a king pin mounted trailing truck.

The following graphic shows the sides for the shorter car

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PN10K also note there is a right side and a left side symmetrical opposing when mounting the sides to the floor.





When prestaging parts for gluing, it is helpful to refer to the photos for this model to become completely familiar with the design and look that this equipment as represented by the prototype. Thus, when laying out the parts as in the above photo of the PN9K kit, the wide doors will be opposite to one another as well as the narrow rear doors.

While edge to edge gluing seems like delicate joints, once the sides are mounted to the floor and subsequently to the roof, the entire body becomes very solid. Some gluing operations should be done before any paint is applied. Parchment paper should be laid down under the parts so that glue does not stick to your bench or surfaces. Clamping is also recommended so parts do not move while the glue sets.

Assembling the bumpers and car ends is intuitive, however to glue up the sides to the floor, we usually use a right angle like a straight piece of aluminum angle. Or, if you have a Mitre Box, just line it with parchment paper and clamping the parts should be relatively easy to get perfect 90 degree corners on the sides with the floor.



Various CA Glues are available such as thin, gel, thick etc. and the use of these are up to the preferences of the modeler. Other glues can also be used but the set times might be higher. A thin CA glue sets very rapidly so a glue that gives the modeler more time to fit parts together all depends on the setup, clamping and associated preferences.

The provenance of this model and appropriate attribution goes to Gary Reighn (www.reighn.com/3dprint.html) for developing the files for 3D Printing in O Scale. His files are

available for download and printing on your own printer. The files for the Windsplitter Interurban are available at [Cults3d](#) for a nominal charge. With his permission, the design is licensed under a Creative Commons (4.0 International License) Attribution-ShareAlike

Click here for document written by Gary describing the printing and finishing of this product: _

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