

On30 and On2 Ore Car Kit Instructions

Thank you for purchasing our kit! We have worked very hard to create a detailed replica using 3d resin printing. While this is a model of the Gilpin Tramway prototype, this ore car would be appropriate for any freelance western narrow gauge mining railroad. Our goal is for every customer to be happy so if you have any questions or concerns, please contact me on the Etsy shop or using the contact form on my website www.singerlinks.com.

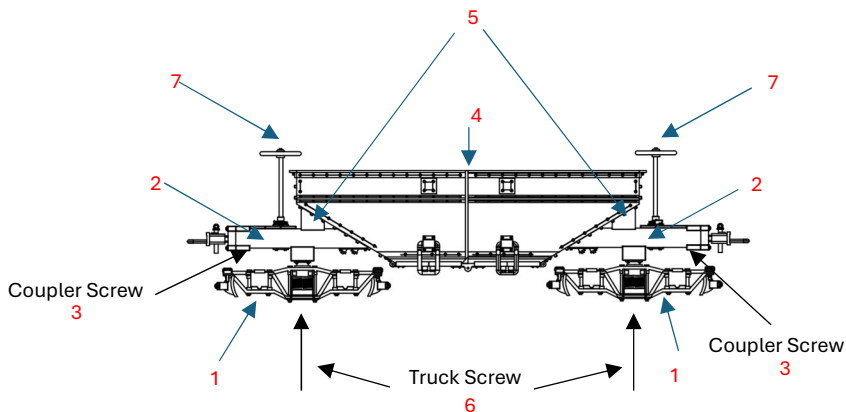
Please read the entire instruction set before starting the build and remember that resin 3d printed parts can be fragile so proceed with care.

General Instructions

Follow these steps for building the kit.

1. Paint and assemble the trucks. Your kit contains enough parts to build two trucks including the wheelsets. See the page for building the trucks.
2. Paint the frames. There are two frame pieces that go on each end of the ore bin. Each frame piece is identical. See the page for building the frames.
3. Using the small screws provided – attach the coupler to the frame. The coupler has a slot that is larger than the screw and is meant to move side to side.
4. Paint the bin. See the bin page for more information.
5. Glue the frames to the bin.
6. Using the small screws provided – attach the trucks to the frames.
7. Install the brake rod and brake wheel on each frame.

Note the diagram below does not show the wheelsets.



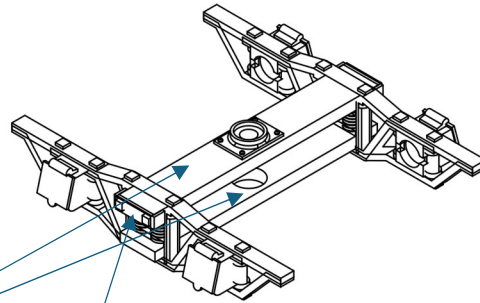
Truck Instructions

This page illustrates the truck and provides additional construction details. The instructions are the same for both the On30 and the On2 trucks.

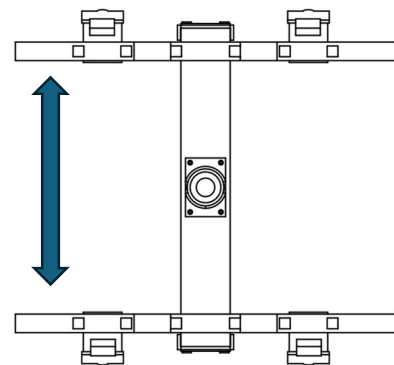
Your kit contains two truck frames. One truck frame is illustrated here. You should paint the frames before installing the wheel sets

Color call outs

1. The two cross beams are made of wood.
2. Note the metal cap bolted to the end of the top beam.
3. The rest of the truck frame is metal. Metal parts would be painted flat black.

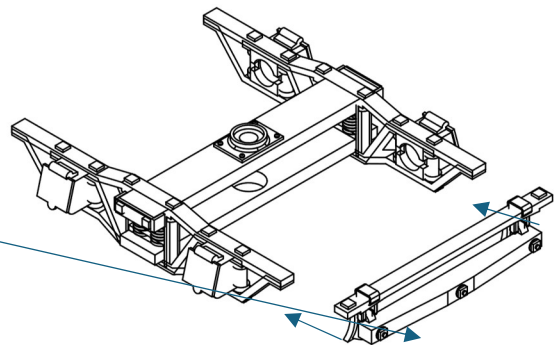


Install the wheel sets. The kit contains four wheel sets (not pictured). Once the frame is painted you can install the wheel sets. I recommend squirting a little graphite lubricant into the holes where the axle will go. To install the wheel set put one end of the axle in an axle hole and then carefully spread the frame apart, applying equal pressure on both sides, just enough to allow the other end of the axle to slip into place. You must be careful as 3D printed parts can be brittle and crack easily. If it breaks, contact me for a replacement.



Each Truck Frame has two brake beams, one on each end. The diagram to the right only shows one. The brake shoes and top cross piece would be metal and painted the same way as the frame. The beam that the brake shoes are bolted to is wood.

Make sure you have the wheelsets installed before you glue on the brakes! Also, make sure the brake shoes don't touch the wheels.



Frame Instructions

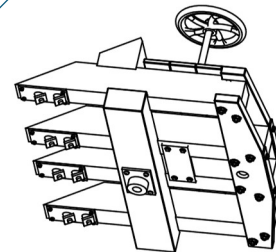
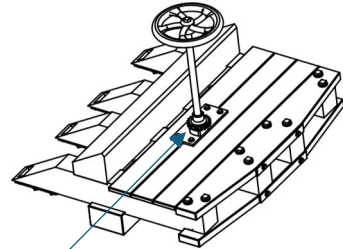
This page illustrates the frame and provides additional construction details.

The Ore Car Frame

Color call outs:

The frame was made from wood. I doubt they painted it but this is not known. It would be dirty, greasy, and dusty.

There are NBW's and other brackets bolted to the wooden beams. These are steel or cast iron and would be greasy and rusty.



Assembly Instructions

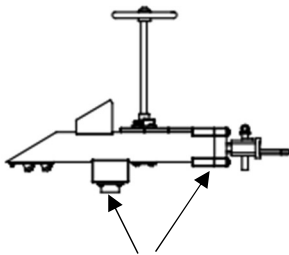
There are three pieces:

1. The Frame itself
2. The brake wheel rod (1mm steel wire)
3. The brake wheel

You will need to open up the hole in the gear where the brake post goes. Use a 1mm drill bit. DO NOT use a power drill. The rod goes through the hole and rests in the bracket underneath.

You may need to open up the hole in the brake wheel as well. The hole does not go all the way through the brake wheel.

I recommend installing the brake post and wheel after the frames are glued to the bin!



There are two nuts and bolts installed on the frame. One is for attaching the coupler and the other is for attaching the truck. The bolts are already screwed in and I recommend painting it this way so you don't get paint inside the nut. Once painted, remove the bolts when you are ready to install the truck and the coupler.

Bin Instructions

This page illustrates the bin. The bin is fully assembled so you can go ahead and paint it.

The Ore Car Bin

Color Callouts.

The ore car bin comes in one piece, so no additional assembly is needed. The bin was constructed from ¼" steel so it would have been left to rust. A rust colored paint on the outside of the bin would be appropriate. The inside of the bin would be rusted, but also polished from all the ore being dropped in and then dumped out. Don't forget to highlight all the cool details on the bin – rivets, hinges on the bottom, dump handles on the side. The diagram below is a cut-away of half the bin.

