

# CONSTRUCT A TRUCK USA

## ASSEMBLY INSTRUCTIONS FOR LIBERTY STEAM LOCOMOTIVE TRAIN KIT



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*Proudly Made in the USA*

*Dearborn, Michigan*

*[www.constructatruckusa.com](http://www.constructatruckusa.com)*

## Things you will need to build this kit:

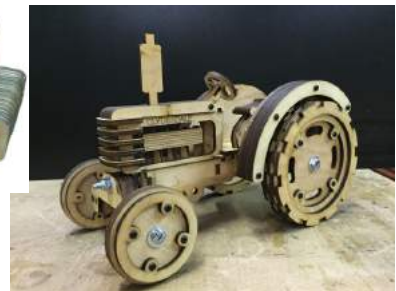
Wood glue  
Phillips head screwdriver

Paint as desired. Use spray paint, or brush-on acrylic paints, magic markers, crayons. . . Or clear spray finish.

### Part Count

- 152 wood pieces
- 62 plastic pieces
- 90 1/2" black oxide screws
- 49 small flat washers
- 10 rubber bands
- Total: 363 pieces**

### *Some of our other Kits . . .*

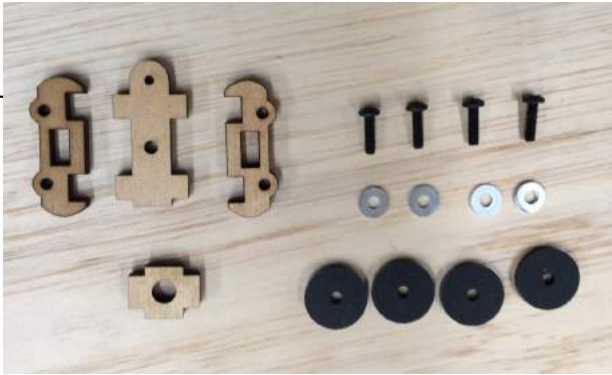


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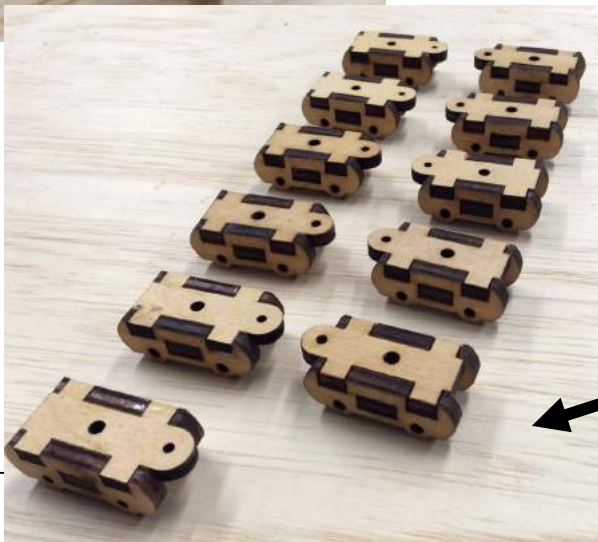


## MODULE 1: Wheel Trucks



You will need to build 11 of these Wheel Truck Assemblies. Each car utilizes two Wheel Truck Assemblies, and the Engine will need one.

1. Start by identifying and laying out the pieces needed for each Wheel Truck as shown above.
2. Glue the four wood pieces together as shown below. Glue all 11 Wheel Truck sub-assemblies and set aside to dry.



## MODULE 1: Wheel Trucks

*NOTE: you can come back to this page when the glue on the wheel truck sub-assemblies has dried*



3. Remove the protective paper film on both sides of the wheels. You can use the point of a utility knife blade to pick the edge away, then peel away the rest.
4. Install a screw and flat washer in each of the four wheels. You may use a power screwdriver; be careful not to over-tighten the screws and strip out the holes.

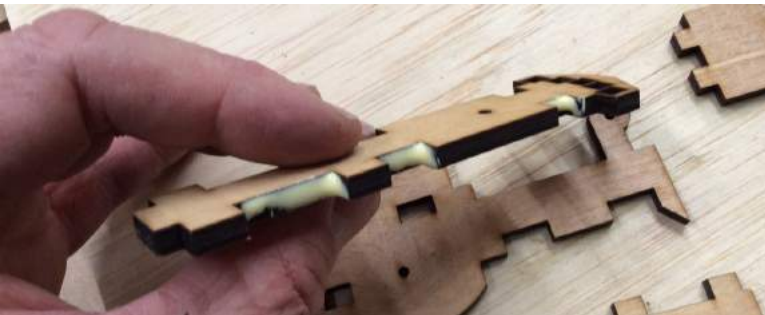
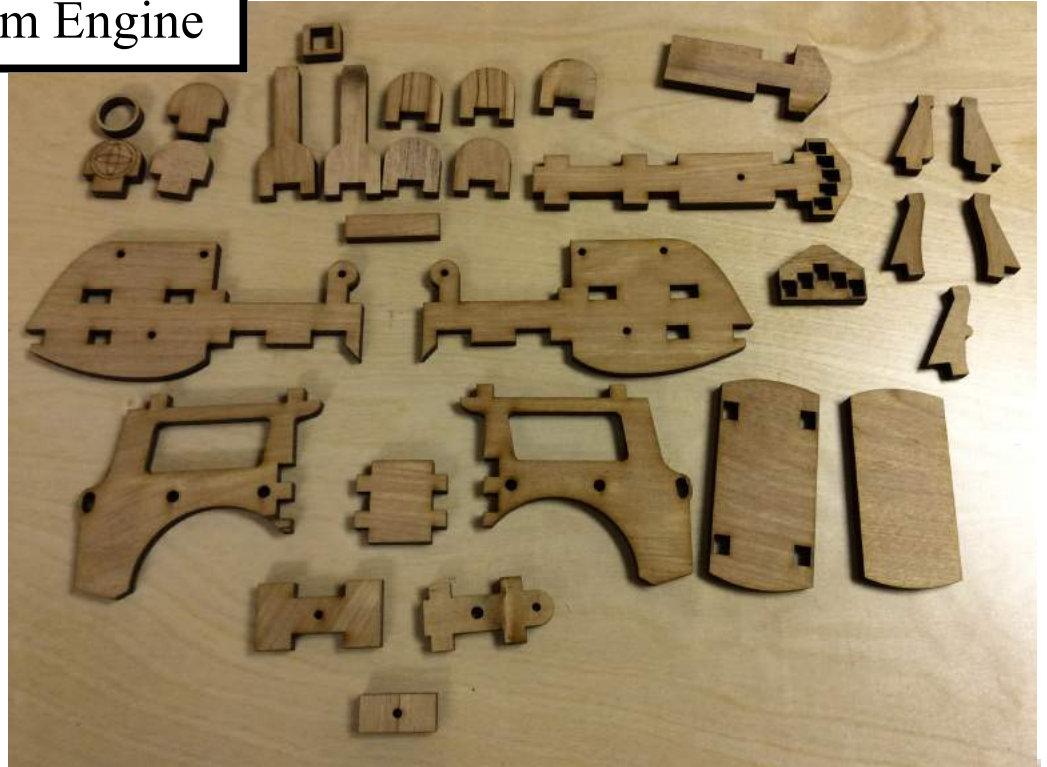


5. Install a screw in the underside of the main plate of the wheel truck, as shown. Turn the screw only until it is flush with the top surface.

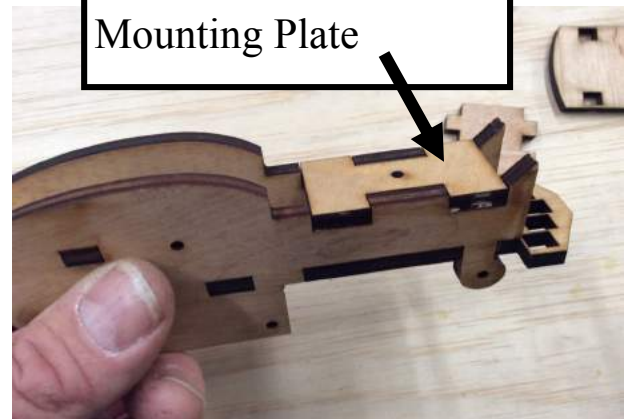


## MODULE 2: Steam Engine

1. Layout the 31 wood pieces for the Steam Engine, as shown.
2. Glue and install the Floor Pan and the Connector Eyelet piece into one of the Engine Chassis sides, as shown below.
3. Glue the other side on. Then glue and insert the Wheel Truck Mounting Plate into the slots on the underside of this sub-assembly.

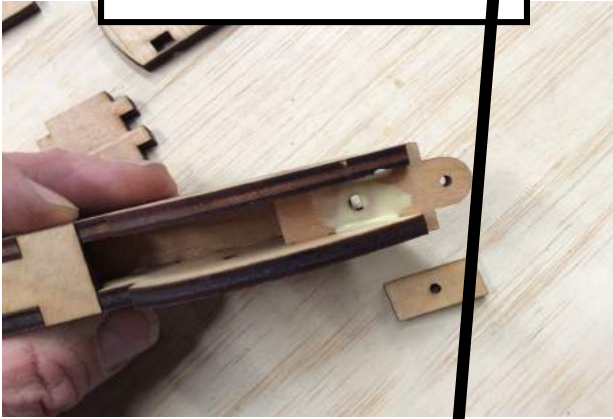


Glue Wheel Truck Mounting Plate



# MODULE 2: Steam Engine

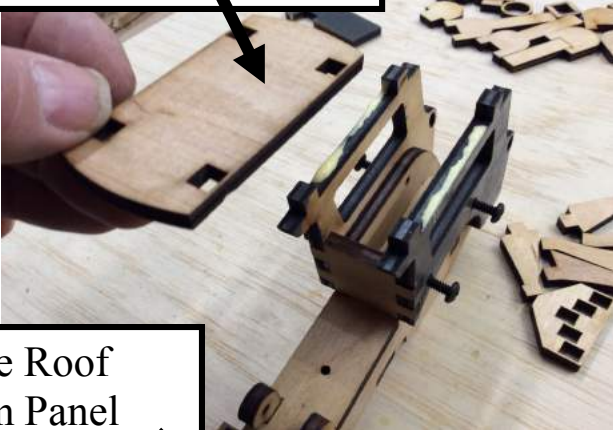
Glue rear screw plate  
(under side)



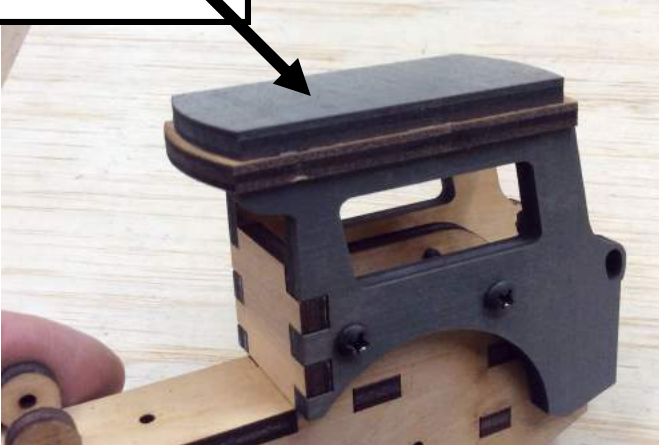
Glue and screw Cabin Sides. Glue & install Cabin Front wall



Glue Roof Panel to Cabin Sides

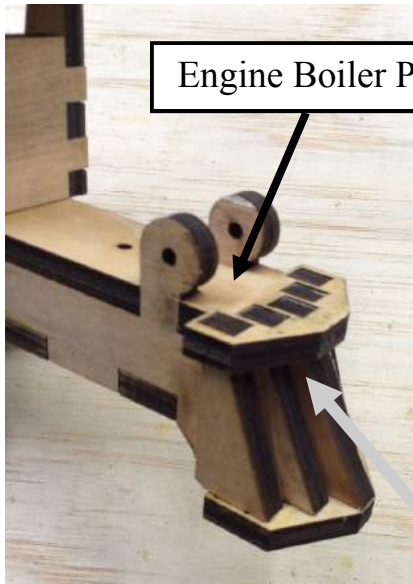


Glue Roof Trim Panel



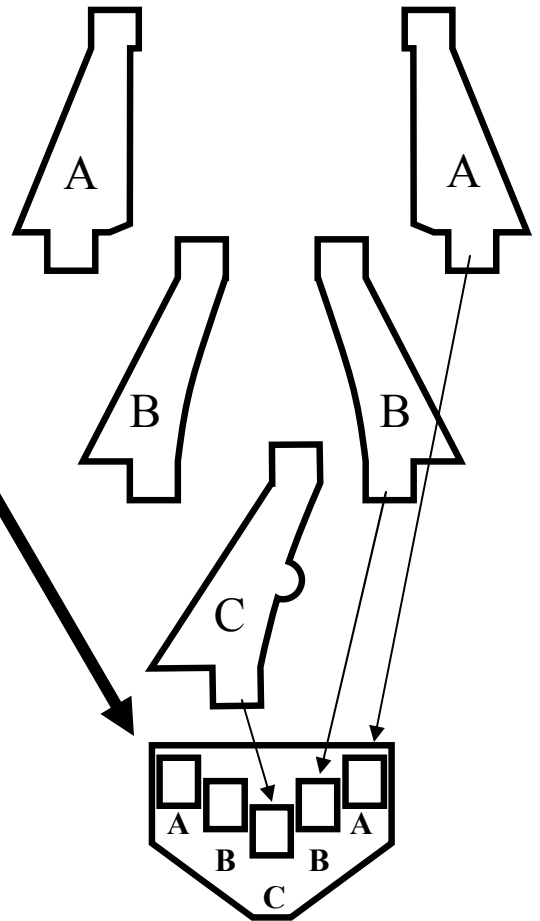


## MODULE 2: Steam Engine

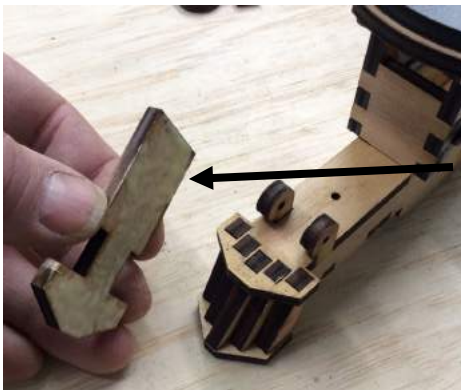


Engine Boiler Plate

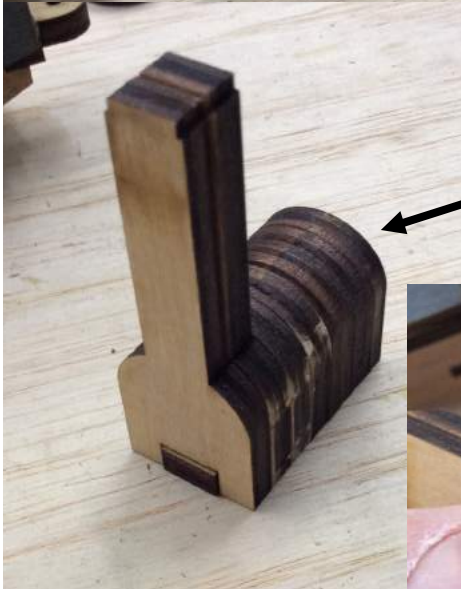
Glue and assemble Cow Scoop components into the bottom plate in the order shown.



Then glue Cow Scoop sub-assembly into slots at front of Engine Boiler Plate

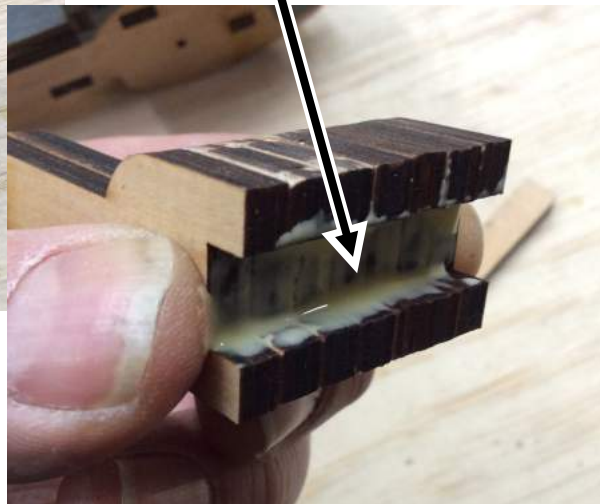


Glue the Boiler Trim Plate on top of the Engine Boiler Plate.



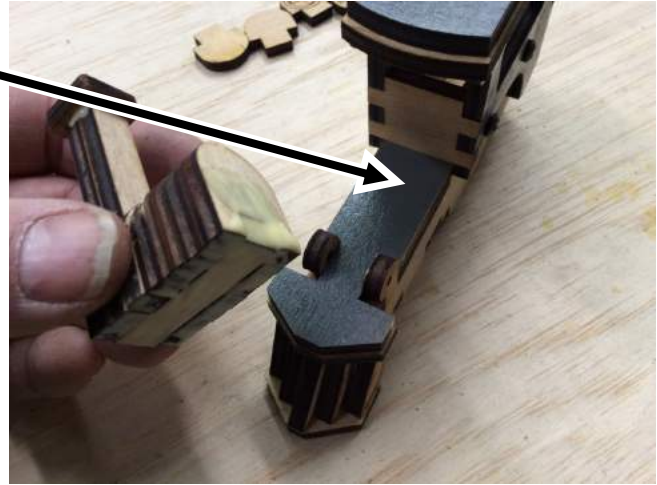
Stack five Boiler profiles with 2 Smokestack profiles in front. Glue and install the small rectangular spline into the bottom of these parts.

Glue the Smokestack Trim Ring on.



## MODULE 2: Steam Engine

Glue this portion of the Boiler onto the Engine Boiler Trim Plate

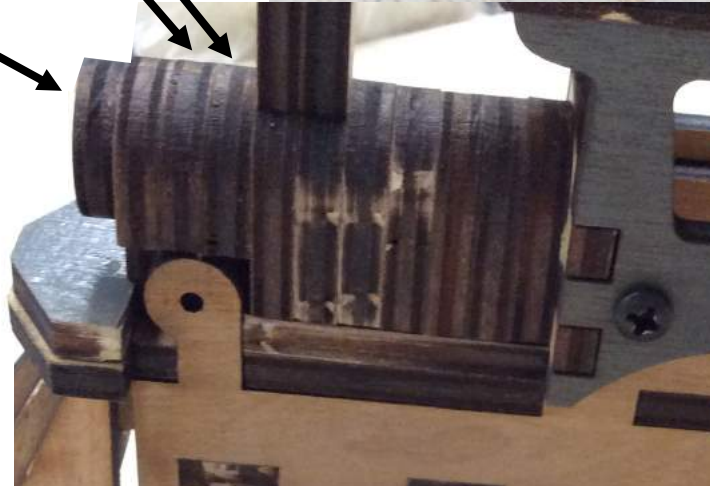


While the glue is drying on the previous sub-assembly, glue the Headlight Trim Ring onto the boiler plate profile with the headlight design engraved on it.



Glue the remaining two Boiler profiles in front of the Smokestack pieces.

Then glue on the Headlight profile.



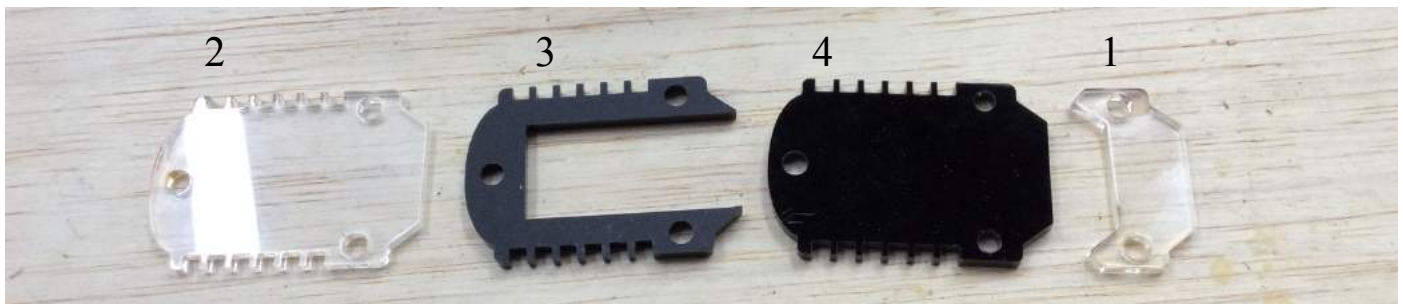
Attach a Wheel Truck with a screw.





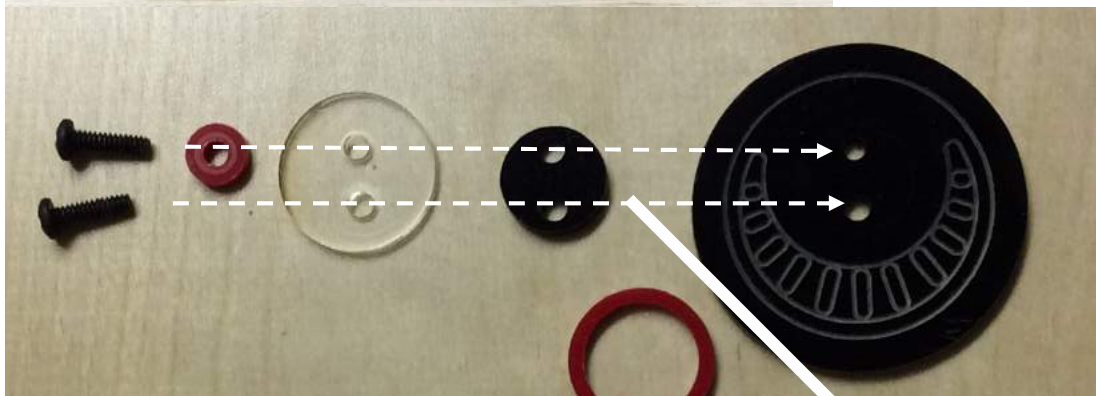
## MODULE 2: Steam Engine

### Assembling the Steam Cylinder, Piston and Connecting Rod components

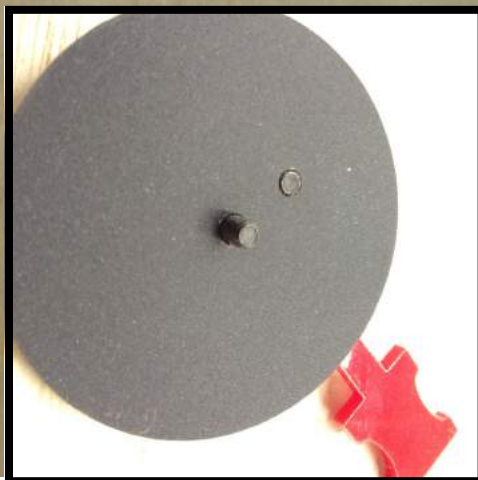


Stack the black and clear cylinder components in the order shown.

Install two screws to hold pieces together loosely. Screws should be flush with the back surface.



Stack and assemble Large Drive Wheel and Piston/Connecting Rod pieces as shown.



Install screw in offset hole so that it is flush with the back side, as shown far left.

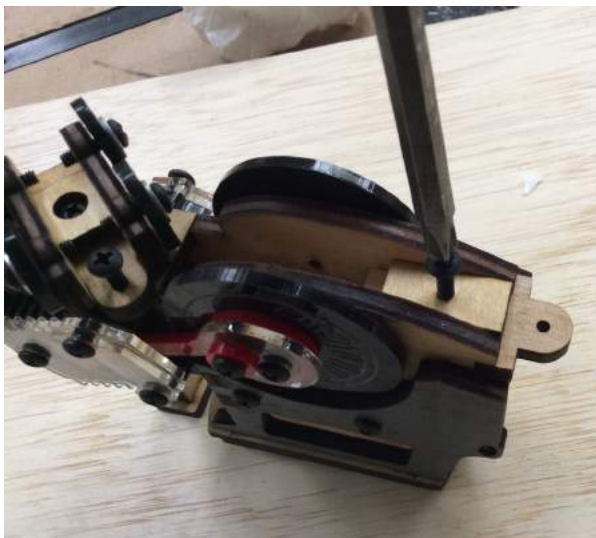
## MODULE 2: Steam Engine

### Assembling the Steam Cylinder, Piston and Connecting Rod components



Install the Large Drive Wheel Sub-Assembly with the center axle screw

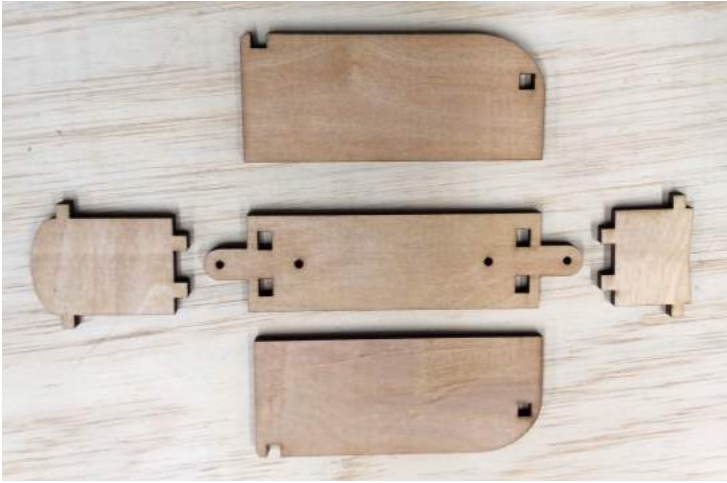
Slide the Cylinder Sub-Assembly over the piston and install Cylinder Pivot Screw. The Cylinder Sub-Assembly should pivot freely; the screw head will not actually touch the plastic parts.



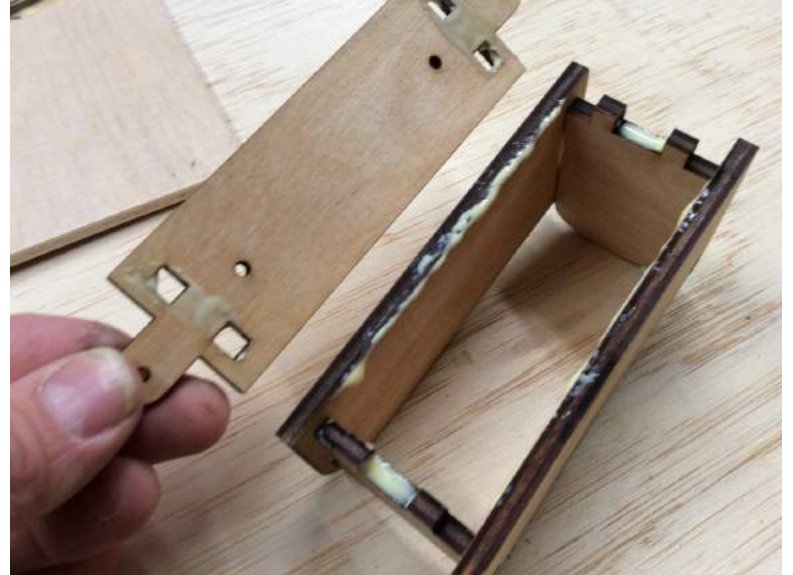
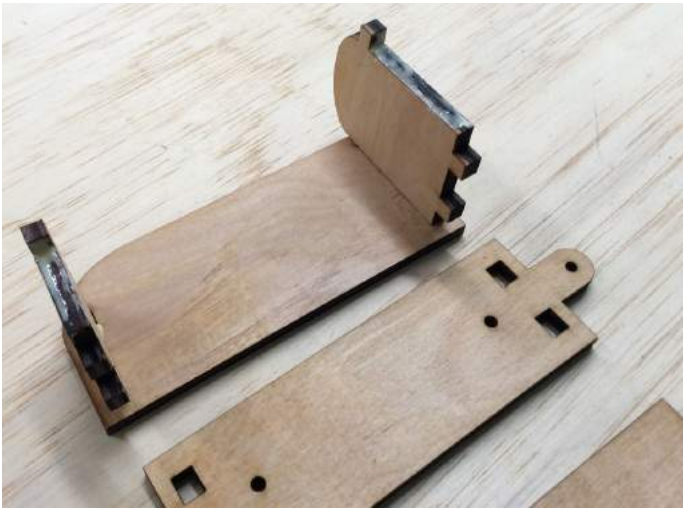
Install a screw in the Rear Screw Plate  
Install the front Wheel Truck  
Install rubber band on the screws in  
Wheel Truck and Rear Screw Plate  
Install Wood connector hook with screw  
and flat washer.



## MODULE 3: Coal Tender



1. Layout the five wood pieces of the Coal Tender as shown.
2. Glue the front and back pieces into the sides.
3. Apply glue to the inside edges where the floor pan fits in.
4. Assemble the floor pan to the sides. Wipe away excess glue. Set aside to dry.

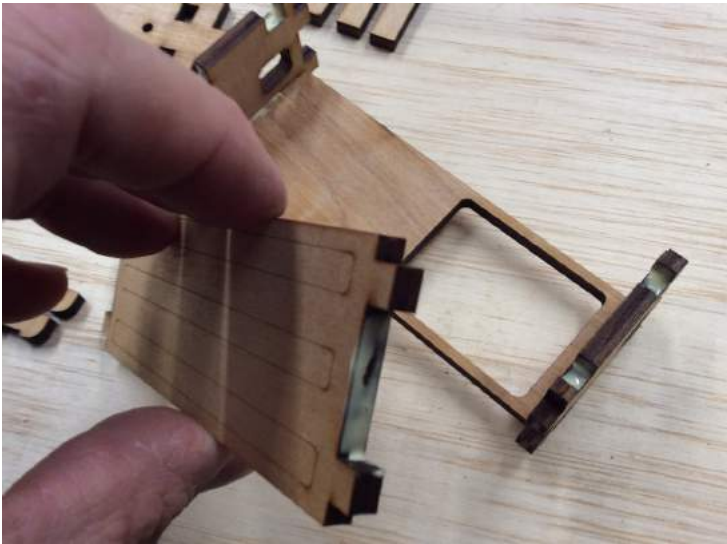
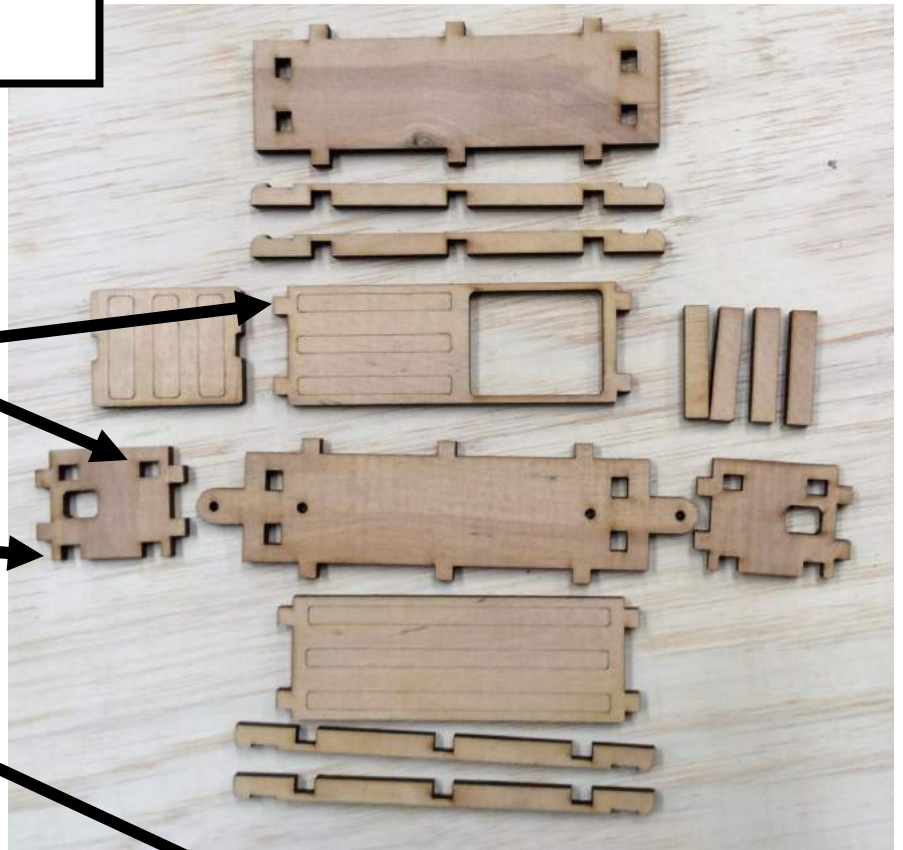


5. After the glue dries, you may want to paint the Coal Tender.
6. Then install Wheel Trucks with screws.
7. Install a screw in the bottom of the front screw hole.
8. Use a screw to install the wood hook connector in the back screw hole. Place a flat washer between the hook and the floor pan.



## MODULE 4: Box Car

1. Layout the 15 wooden pieces shown.
2. Glue the tabs of the Side with the Door Opening into the front and back end pieces.
3. Then glue the other side into the open slots of the front and back end pieces.
4. Glue the top and bottom pieces onto the sides. Be sure the windows in the end pieces are both positioned upward.



5. Glue the border trim pieces onto the solid side of the Box Car, as shown in the picture to the left.



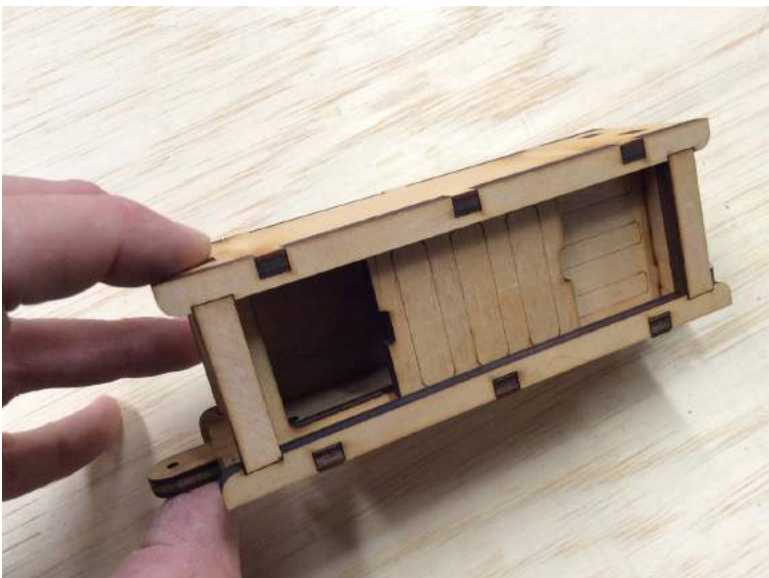
## MODULE 4: Box Car



6. Place the Box Car on its side, and set the sliding door piece into the track recess.
7. Carefully apply glue to the outermost edges of the Box Car so that the glue will not squeeze into the track area.
8. Install the horizontal and vertical trim pieces as shown. Move the Sliding Door back and forth to ensure that it moves freely. Repeat this action at one-minute intervals (four or five times) to ensure that the door does not get stuck.



9. After glue has dried, assemble the Wheel Trucks with screws.
10. Install one screw in the underside of one of the connector eyelets.
11. Install the wood hook connector in the other connector eyelet with a screw and a flat washer in between.



## MODULE 5: Passenger Car

1. Layout the 16 wood pieces for the Passenger Car.
2. Glue the four sides to the floorpan. Use rubber bands or masking tape to hold it together while glue dries.
3. Glue the roof arches into the roof plate
4. Glue and center the Rood Ridge Beam.
5. Glue and install the remaining roof panels as shown.



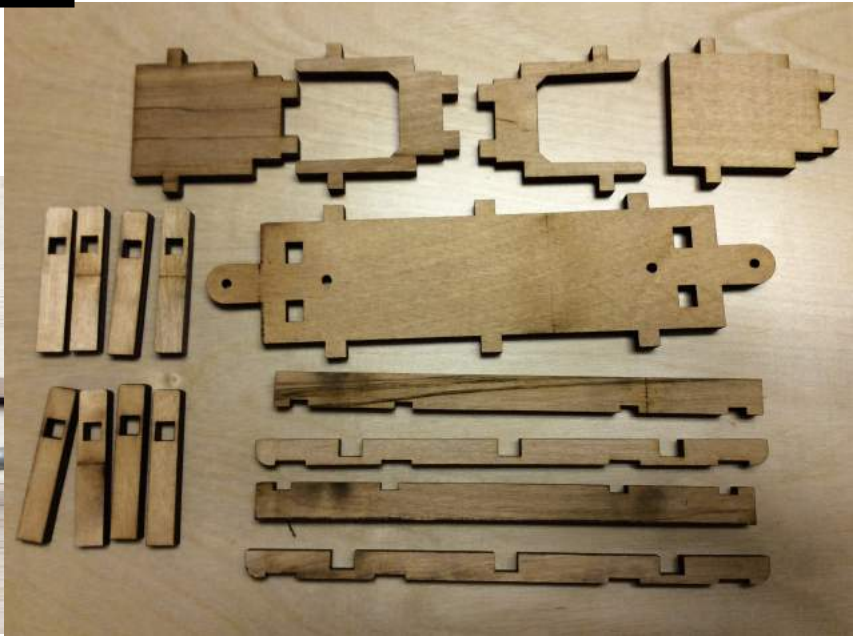
6. After glue has dried, assemble the Wheel Trucks with screws.
7. Install one screw in the underside of one of the connector eyelets.
8. Install the wood hook connector in the other connector eyelet with a screw and a flat washer in between.



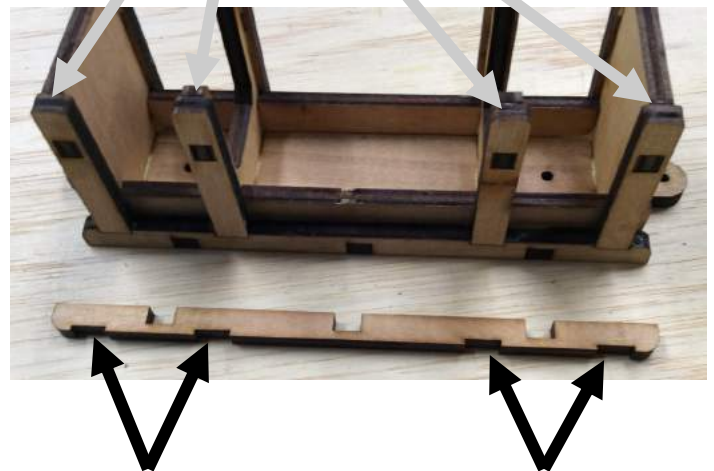
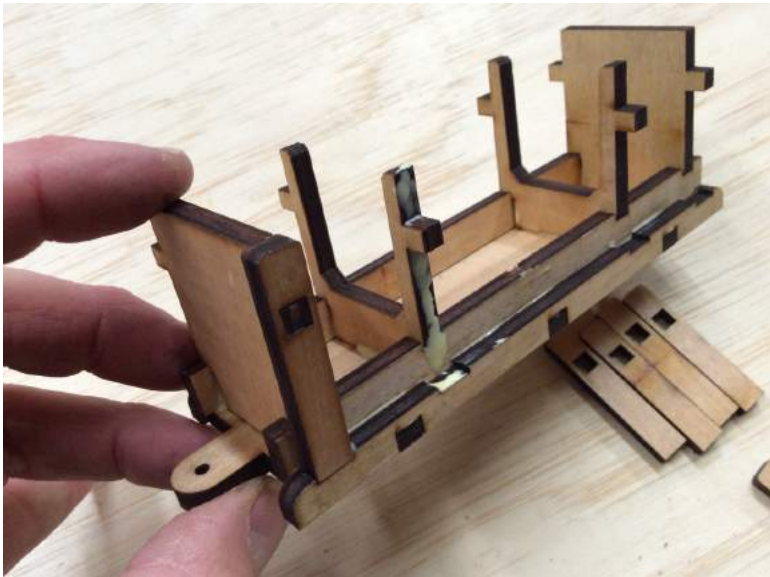
*NOTE: If you plan to paint the Passenger Car, this is an ideal point to do so. With the two sub-assemblies still separate, the roof sub-assembly can be painted one color and the Passenger Car body can be painted a different complimentary color. NOTE Also that, you do not have to glue the roof onto the body sides of the car.*



## MODULE 6: Log Carrier



1. Layout the 17 wood pieces for the Log Carrier.
2. First glue the front and back vertical pieces into the floor pan.
3. Then glue the u-shaped log rack pieces into the floor pan as shown above.
4. Glue and install the inner horizontal braces on both sides.
5. Glue the outer horizontal brace on one side. Then apply glue to the edges of the vertical pieces and install the four vertical trim posts.
6. Glue and install the outer horizontal brace and four vertical trim posts onto the other side.
7. Wipe away any excess glue, and set aside to dry.

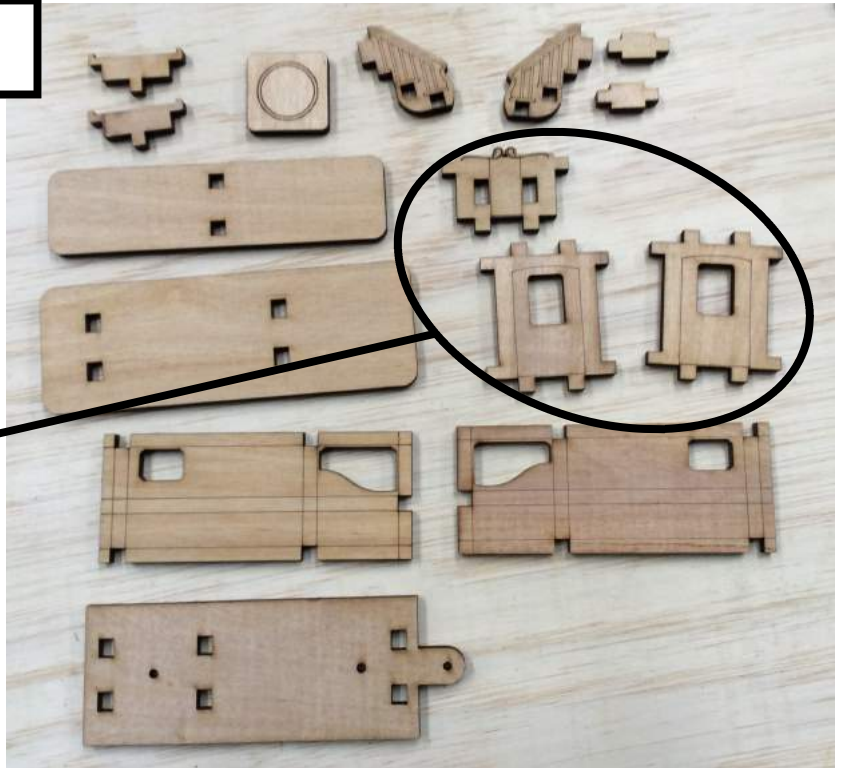


8. After the glue dries, you may want to paint the Log Carrier.
9. Then attach the Wheel Trucks with screws
10. Install a screw to the underside of one of the connector eyelets.
11. Install a wood connector hook with a screw to the underside of the other connector eyelet. Place a flat washer in between.

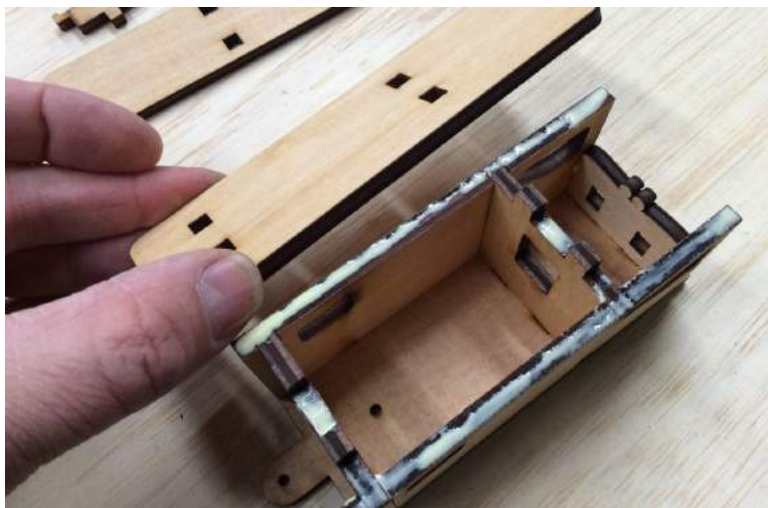
NOTE: The Log Carrier trim piece has four notches along the top edge. The trim piece for the Box Car is similar, except it has only two notches. They are not inter-changeable!

## MODULE 7: Caboose

1. Layout the 15 wood pieces of the Caboose.



2. Glue the two ends with window cutouts into the sides.
3. Glue the Gate piece into the slots at the tail end of the sides.
4. Apply glue to the bottom edges of the sub-assembly and place it onto the floorpan. Use masking tape or rubber bands to hold it together if necessary. Set aside to dry.





## MODULE 7: Caboose



5. Glue and install the Caboose roof Vent Stack pieces onto the Roof Trim Plate, as shown.

6. Glue the Roof Trim Plate onto the Roof piece, centering it so that it covers all the slot openings.

7. Glue the Roof sub-assembly onto the Caboose.



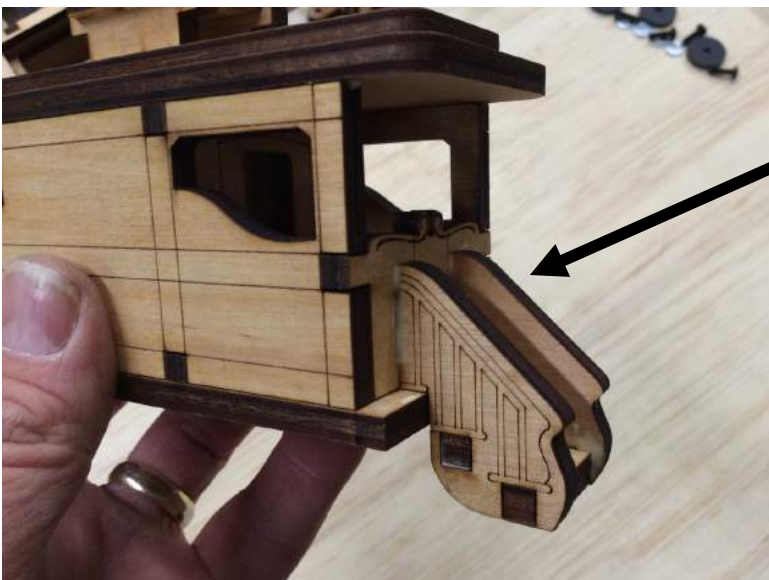
*Note: You may choose to paint the Caboose before attaching the Roof sub-assembly and the Stair sub-assembly. The natural wood tone of these sub-assemblies will provide a nice contrast to the painted portion of the Caboose.*

8. Glue the steps into the Hand Rail pieces

9. Then glue and insert the stair sub-assembly into the slots at the back of the Caboose.

10. Use screws to attach the Wheel Trucks.

11. Install one screw underneath, in the connector eyelet.



# Notes

## Using the Train Without Track

If you use the train without track, hook the rubber bands onto the screws on the underside of the Wheel Trucks on each car. The tension between the two Wheel Trucks will help keep the wheels straight.

## Using Your Existing Wood Track Setup

If you use the train on your existing wood track, please note that you will have to “balance” the train. This means that the cars must be arranged in order from heaviest to lightest. The approximate weight of each car is as follows:

	ounces	Approx wt	Add'l ballast	(# of qrtrs)	total
Engine		5.4	0	0	5.4
Coal Tender		3.0	2.2	11	5.2
Box Car		4.0	1.0	5	5.0
Passenger Car		4.0	0.8	4	4.8
Log Carrier*		3.0 + 1.6	0	0	4.6
Caboose		4.2	0	0	4.2

*(\*approx weight is log carrier + five wooden dowels)*

Coins can be used as ballast. A U.S. Quarter is approx 0.2 ounces. Thus, 11 quarters will provide 2.2 ounces of ballast in the Coal Tender.

Balancing the train will minimize “derailing” when driving through curves.

You may want to leave the rubber bands on the Wheel Trucks of each car; as it also helps keep the wheels aligned in the shallow wooden grooves, especially when coming out of curves.