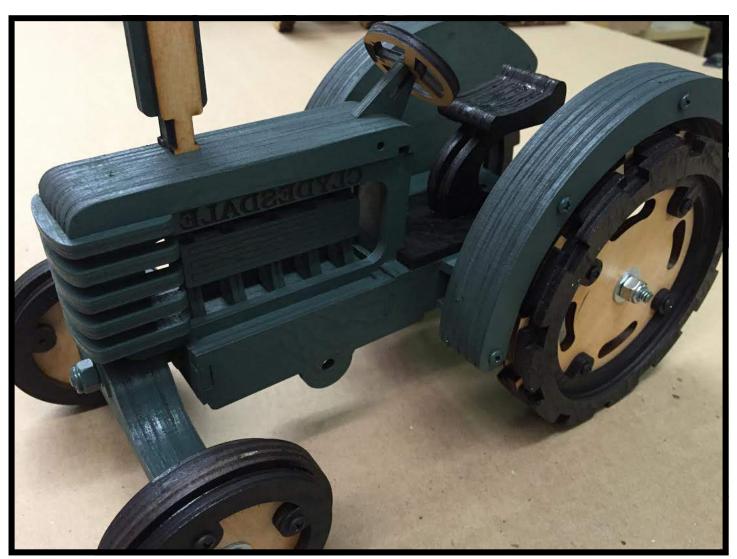
The CLYDESDALE TRACTOR

Kit Assembly Instructions



CONSTRUCT A TRUCK USA

precision wood models and kits

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Description Phillips head screwdriver Qty *Note: power driver may* be used, but over-torque-8 #6-32 x 1" black oxide machine screw #6-32 x 1/2" black oxide machine screw ing will strip out the 17 1 1/4-20 x 11" threaded rod wood holes 2 1/4-20 x 2" hex bolt **Pliers** Wrench or socket wrench, 7/16" 12 flat washer 1/4-20 nylon lock nut 4 Wood glue

Hardware List

1

2

1/4-20 hex nut

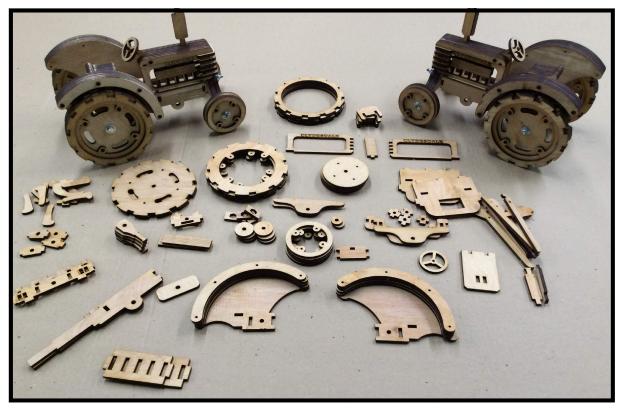
1/4-20 x 1-1/4" Phillips head machine screw

Tools and Supplies Required

Rubber bands and/or masking tape are great for clamping pieces together while glue dries. Spring clamps and small wood clamps can also be useful.

Paint

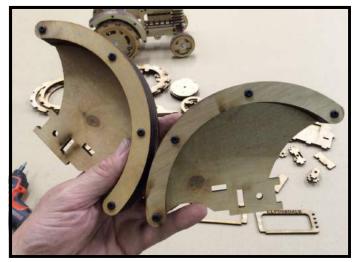
120-grit sandpaper



Start by laying out the wood components, grouping and stacking similar parts.

There are 97 laser-cut wood components in this kit.



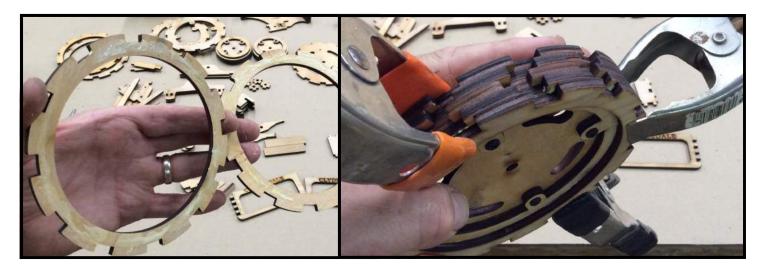


- 1. Stack four fender profiles on the inner fender wall to create the left hand fender assembly. Use 1" screws to secure them together. Each part of this fender assembly can be glued together, but is not necessary.
- 2. Stack four fender profiles in the opposite configuration to create the right-hand fender assembly.





- 3. Each Rear Wheel Assembly has five layers—one Center Plate with Pass-Thru Screw Holes, one Tread Plate With Pass-Thru Screw Holes, one Tread Plate With Small Screw Holes and two Outer Tread Profiles. Stack one Tread Plate With Pass-Thru Holes on top of the Center Plate, and insert two 1/2" black screws into two opposite screw holes.
- 4. On the opposite side, stack one Tread Plate With Small Screw Holes. Align holes so that tread pattern is formed as shown above. Tighten screws to hold these three layers together.
- 5. Apply glue to the Outer Tread Profiles and clamp onto opposite sides of the wheel assembly. Be sure to stagger the tread pattern to continue the "v-groove" design.



- 6. Each Front Wheel Assembly has four layers one Outer Tread Plate with Pass-Thru Screw Holes, one Inner Wheel Disc with Pass-Thru Holes, one Inner Wheel Disc with Small Screw Holes, and one Outer Tread Plate with Small Screw Holes. Align and glue together the Outer Tread Plate and the Inner Wheel Disc (both) with Pass-Thru Holes. Insert two 1/2" black screws in two opposite holes to ensure alignment.
- 7. Align and glue together an Outer Tread Plate and an Inner Wheel Disc (both) having Small Screw Holes. Use power screwdriver to drive #6-32 x 1/2" black screws to clamp the pieces together.

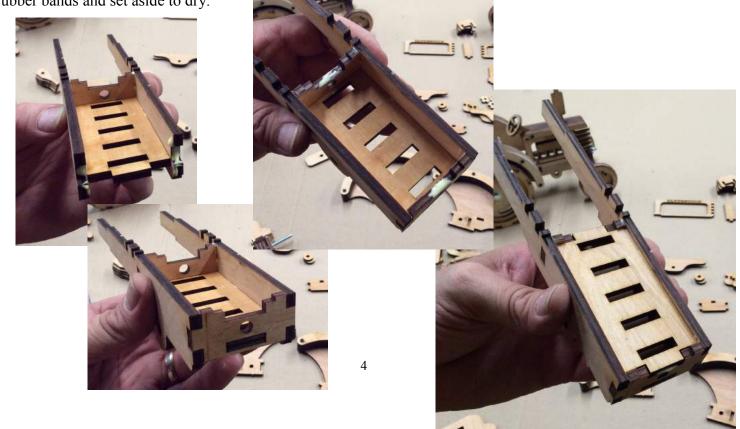
8. After the glue dries, remove the screws from the Small Screw Holes. Place the other Wheel Half on top and use four #6-32 x 1/2" black screws to hold the two halves together, forming on complete Front Wheel Assembly.

9. Repeat steps 6 through 8 to assemble the other Front Wheel.



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10. Glue together Frame Rails, Frame Cross Members, and Engine Base Plates as shown below. Clamp with rubber bands and set aside to dry.

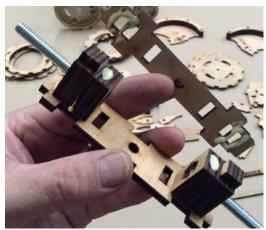




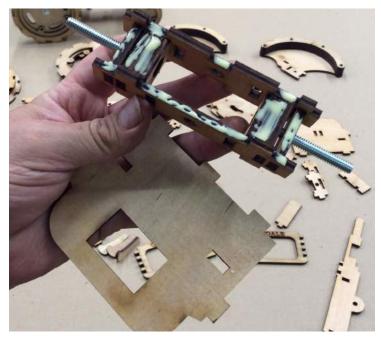


- 11. Glue and assemble the components for the Rear Axle Carriage as shown. Note that the hex bolt head is placed in the wooden anchor plates while the glue dries to keep them aligned.
- 12. Be sure to apply glue to all mating edges when attaching Rear Frame Plate (bottom right photo).



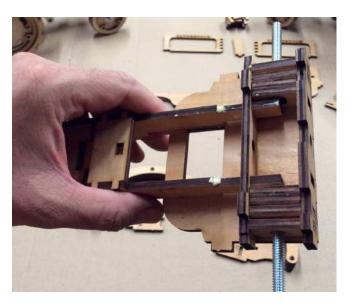






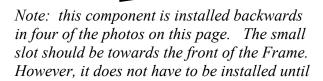


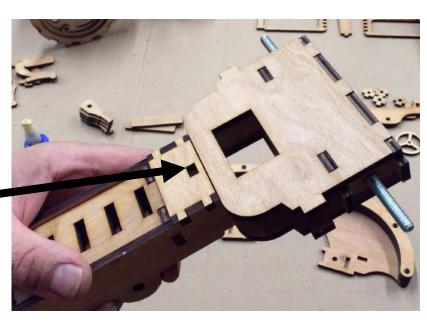






- 13. Apply glue to the back section of the main frame rails, and slide them into the matching slots in the Rear Axle Carriage, as shown.
- 14. Apply glue to all mating surfaces as shown and install the top plate.



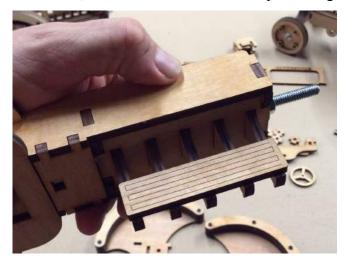






- 15. Insert the 11" threaded rod through the hole in the back of the Rear Axle Carriage, and slide the Engine Cylinder Dividers into the slots of the Engine Cradle while progressively feeding the threaded rod through each piece to hold it in place.
- 16. Install a plain hex nut and flat washer at the front of the threaded rod, with about 1-1/4" to 1-1/2" protruding.





- 17. Apply glue to the notches in the Engine Cylinder Dividers and install the Engine Side Plate.
- 18. Repeat process for the other side of the engine. Set aside to dry.
- 19. Glue and install the Seat Posts into the Floor Plate. Align and glue a Seat Profile between the Seat Posts. Clamp with a rubber band, ensuring the pieces remain properly aligned. Set aside to dry.
- 20. Proceed to next steps, but come back to the Seat Assembly (after glue dries) to add two additional Seat Profiles to each side of the Seat Assembly. Use rubber band to clamp pieces together until glue dries.







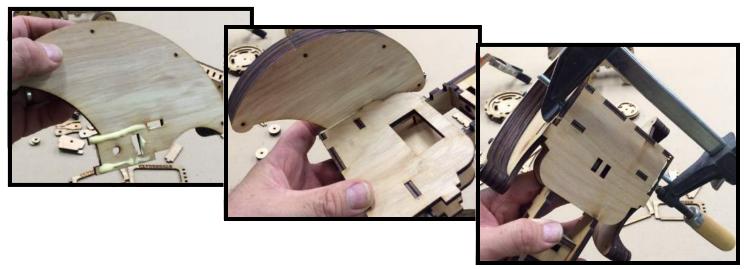


- 21. Start assembling the Front Steering Beam by applying glue to the front plate, as shown. Install the four Axle Supports (that look like 'plus' signs).
- 22. Install two Beam Spacer Plates, applying glue to all mating surfaces and edges. (Use one of the 1/4-20 Phillips head bolts to help align the plates during assembly.)
- 23. Glue all mating surfaces and install the opposite front plate. Clamp on both ends and check to ensure that Axle Support Plates are properly seated in the ends of the Beam. Set aside to dry.



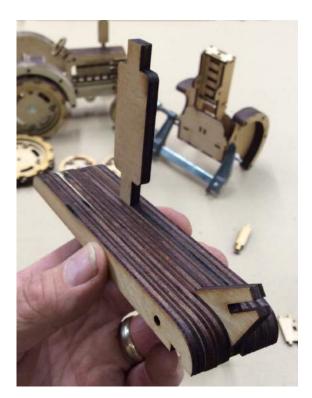


24. Apply glue to the mating surfaces of the Left Side Fender Assembly and install onto Frame 25. Install Right Side Fender Assembly and lightly clamp Fenders to Frame. Set aside to dry.



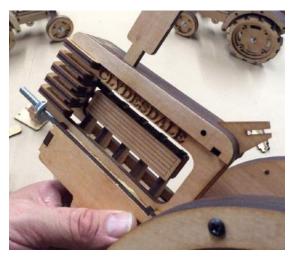
- 26. Arrange the Engine Top Cover pieces side-by-side as shown. There are 7 pieces. The center piece has the Steering Wheel mount. The profile with the Exhaust Stack can be second from the left or right outermost profile, whichever side you prefer.
- 27. Apply glue between each layer and clamp together. Be sure to assemble these profiles on a flat, non-stick surface (i.e., wax paper) and use two straight-edge pieces of wood to push the front and back edges flush. Set aside to dry.





- 28. Apply glue to the notches at the front edges of the Engine Side Panels, and install the Front Grille pieces.
- 29. Apply glue to the top edges of the Engine Side Panels and attach the Engine Top Cover Assembly, as shown. Insert the Engine Back Panel into the slot on the underside of the Engine Top Cover Assembly.





- 30. Apply glue to the bottom edges of the Engine Cover Assembly and install it over the Engine, onto the frame.
- 31. Install the Front Steering Beam. Place flat washers behind and in front of the beam, and secure with a locknut, allowing Steering Beam to freely pivot.



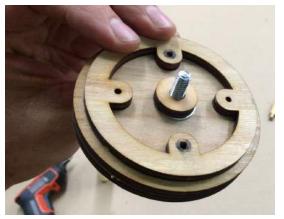
32. Slide the Frame Rear Cover Plate onto the threaded rod and secure with a flat washer and nylon lock nut. Use pliers to grasp the threaded rod through the access hole in the Frame while tightening the lock nut with a 7/16" wrench or deep socket. (Caution! Do not over-tighten the lock nut—you can crush the frame!)





Assembly Hint:

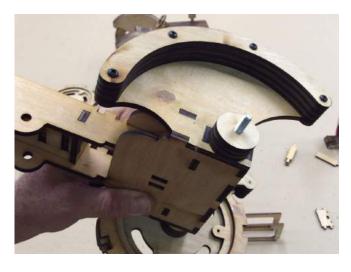
It is a good time to paint the tractor assembly at this point. The items remaining to install are the Wheels, the Seat Assembly, the Steering Wheel and the Exhaust Stack side pieces. These items can also be more easily painted prior to assembling them to the tractor.

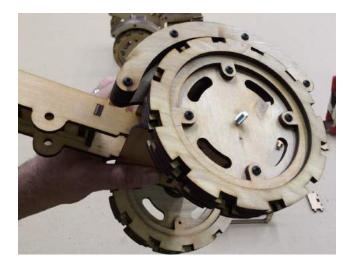






- 33. Insert a 1/4-20 x 1-1/2" Phillips head machine bolt and flat washer through the Front Wheel. Place another flat washer on the inside, along with a wood spacer.
- 34. Use power screwdriver to drive the bolt into the front axle supports (the bolt will cut threads into the undersize hole)
- 35. Install other Front Wheel.
- 36. Apply glue to both Exhaust Stack Side Pieces and attach to Exhaust Stack. Use a rubber band to clamp the pieces together, ensuring that they are centered and even.





- 37. Place 3 wood spacers and a flat washer on one of the Rear Axle bolts.
- 38. Install the Rear Wheel Assembly.
- 39. Place another flat washer on the axle and secure the wheel with a lock nut, ensuring the wheel does not wobble excessively, but still turns freely.
- 40. Install the other Rear Wheel Assembly.
- 41. Apply glue to the Seat Assembly base plate and install.

42. Use #6-32 x 1/2" black machine screw to install the



Congratulations!

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