7-1/4" gauge Ballast Car By Dave Chambers dichambers@aol.com http://divrr.com/srr/requipment/101/car101.php

Part 1: General plan



Part 2: Cut & Assemble frame



Part 3: Cut & Install side angles

This is the trickiest part as the pieces have multiple compund angle Cufts There are 4 pieces in all, and have roughly identical size & shape, but dimensions will vary based upon how your interior pieces ended up.



Cut & dry fit all pieces
Affix all, using exterior wood glue & deck screws.
"Important" Bottom edges must be flush with bottom edge of sides!

Part 4: Cut & Assemble gates The totom now has a pair of roughly 4° square holes. This is where the ballast will flow out. Well build & Install gates to control the flow.



The gate housings are a sandwich of 3 layers of 3/4" plywood. Between the layers are 1/8" spacers, which allow the gate to slide The gate itself is also a piece of3/4" plywood.



Sandwich and affix housings to bottom of car with screws & glue. (leave the gate out during assembly) Use 4.5 screws per side. Ensure screws have decent purchase into inner/outer angles and sides, but ensure that screws DO NOT protrude into car interior. Once housings are built, isself gate and ensure it sides freely side to side

Part 5: Attach bolsters & couplers

I used Cannonball couplers and trucks. Coupler pockets are part #41108 Bolsters are part#24903 (see note)



Proceeds are fluan on the bottom of the encos Note: I found the Bolster kit's pin VERY DIFFICULT to thread. What J idd insteads is buy a plain out bott at the hardware store (the kind a hex head and with 1 of threads and the rest of the shaft unthreaded) and cut it to length. MUCH easer than threading the metal not supplied in the kit. Alternately, spend an exits 20 and buy the RTR kit, part #14803.

Part 6: Build passsenger options!

TOP: Cus appect of 3/4 pty that is as wide as the outside of the car and is as long as the part of the outer angles. The part of the part part of the relation of the part of the power design of the part of the power design of the part of the part

Aftic zaże to to inderside of plywood such that ply does slide end-torounded all upper edges, sanded the top side, and coased with polyur



RUNING EQARDS ((objects)): Cut a given of this decing lyrood, not plass() to the full side length Software present 13 (abs) the same with a site gates. Remove gates, insert ply into gate holes. Software states of the same state holes and any notable of the with outside of decing, snew decking to plyinsure running boards side intout of gate holes.

NOTE: After assembling running boards, stick them in the gate holes & tight against the sides. Dirll 1/4 "hole adds. The chule adds. To half running boards in place, drop 1/4" x 2" loing bats into holes.