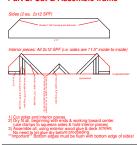
Part 1: General plan



Part 2: Cut & Assemble frame



Part 3: Cut & Install side angles

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





1) Cut & dry fit all pieces
 2) 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 bottom now has a pair of roughly 4" square This is where the ballast will flow out. We'll 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 of 3/4" plywood.

Exploded side view





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 inneriouter angles and sides, but ensure that screws DO NOT protrude into car interior.

Once housings are built, insert gate and ensure it slides freely side to side

Part 5: Attach bolsters & couplers

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



Bolsters should span the inner/outer angles. Pockets are flush on the bottom of the ends

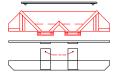
Note: I found the Boister kit's pin VERY DIFFICULT to thread. What I did instead is buy a plain oil boil at the hardware storie (the kind is her head and with I of threads and the rest of the test of understanded) and out it o length. MUCH easier than threading the metal not supplied in the kit.

Alternately, spend an extra \$2.0 and buy the RTR kit, part #14803.

Part 6: Build passsenger options!

I found that I wanted to be able to ride the car when not using it to move ballast. So I built a top and some footrests that can be swapped in/out.

TOP: Cut a piece of 3/4 ply that is as wide as the outsied of the car and is as long as the peaks of the outer angles. Fig. 2.52 (really 1.5 x 1.5) on a 45 degree angle, and cut to length (11.5°, to fit Affix 2.22 to 10 underside of plywood such that ply doesn slide end-to-end. I rounded all upper edges, safered the top side, and coated with polyurethane.



RUNNING BOARDS (footnests):
Out a piece of 1st decising (wook) con plassic) to the full side length
governile mode; of lod off y the same width as the gates.
Remove gates, invent ply into gate holes.
Remove gates, invent ply into gate holes.
All middle of by the value of decising, so new decking to ply.
Enture running boards side in/out of gate holes.

NOTE:
After assembling running boards, stick them in the gate holes & tight spainst the sides.
Pill 1/4" hole thru ply in the chute area inside car, pretly light against the chute sides.
To hold running boards in place, drop 1/4" x 2" loing botts into holes.