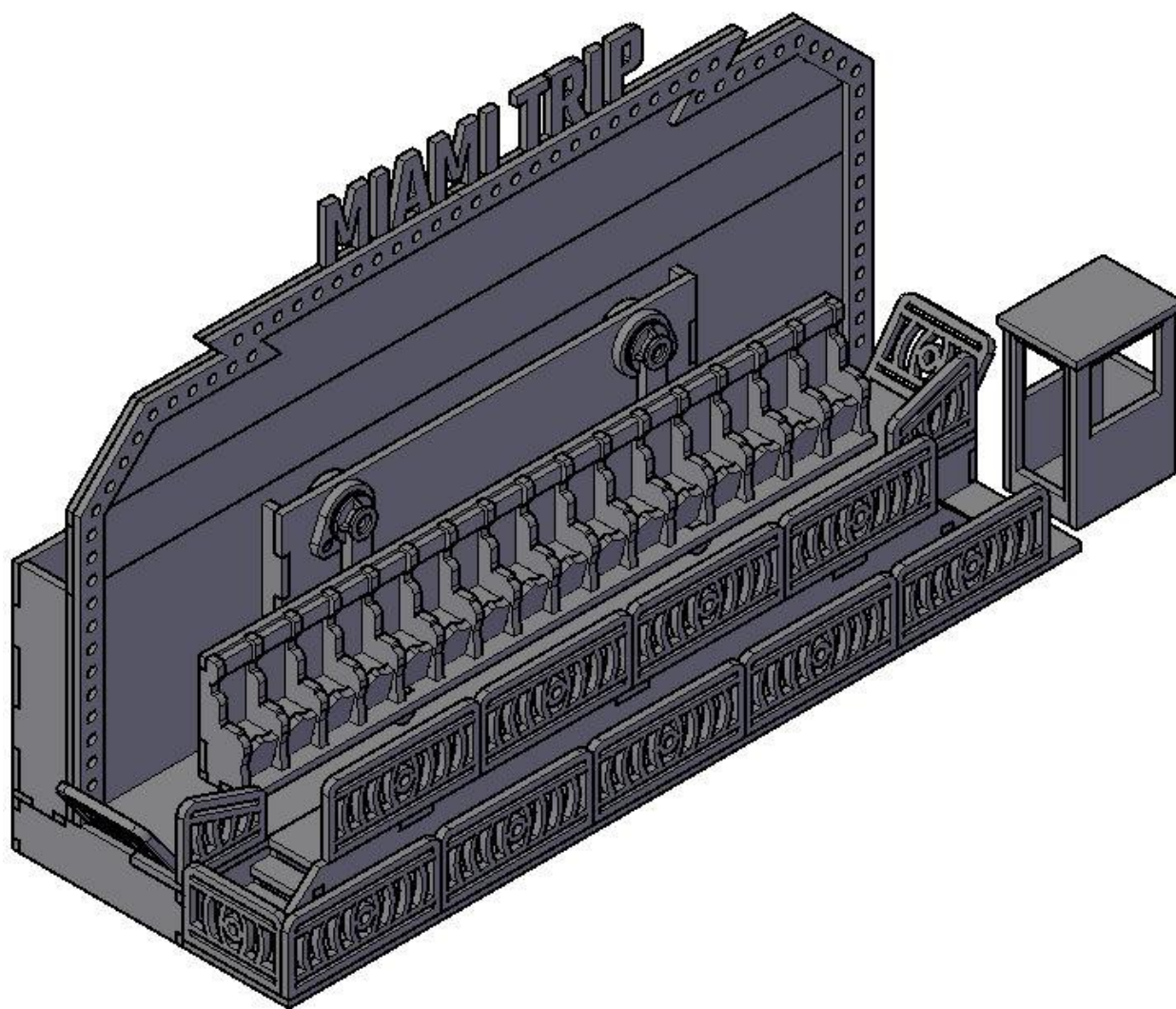


1:50 scale MIAMI fairground ride

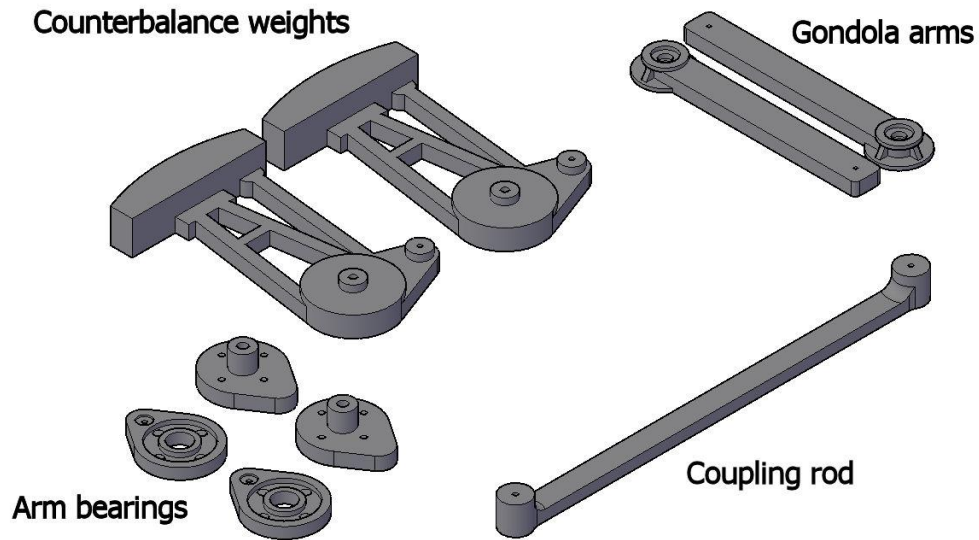
MDF Kit

Assembly Instructions

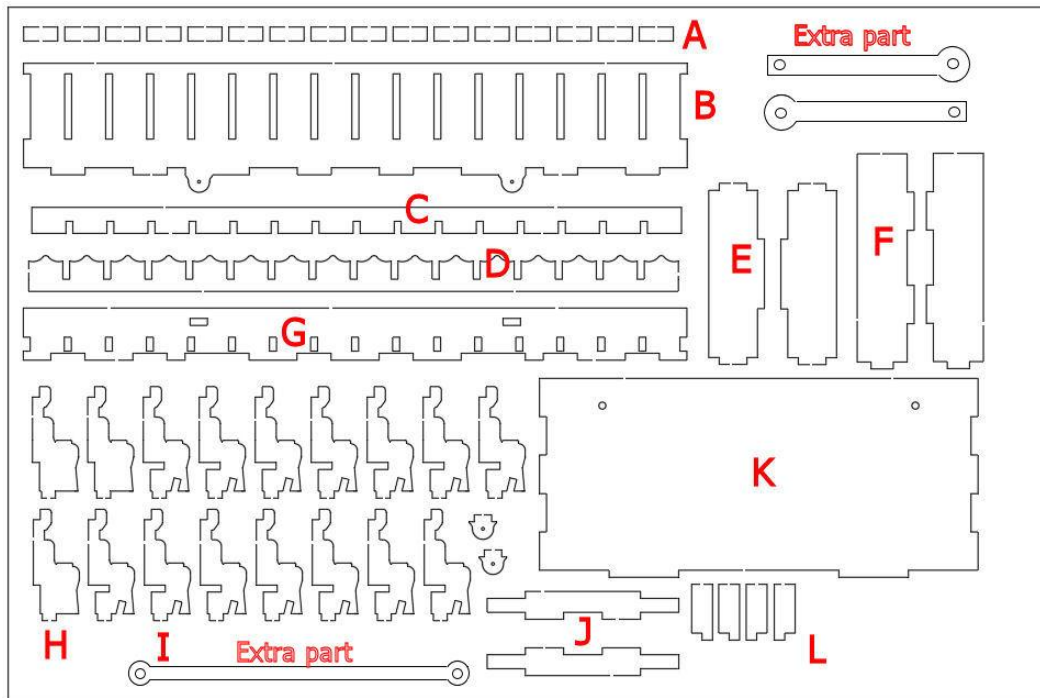


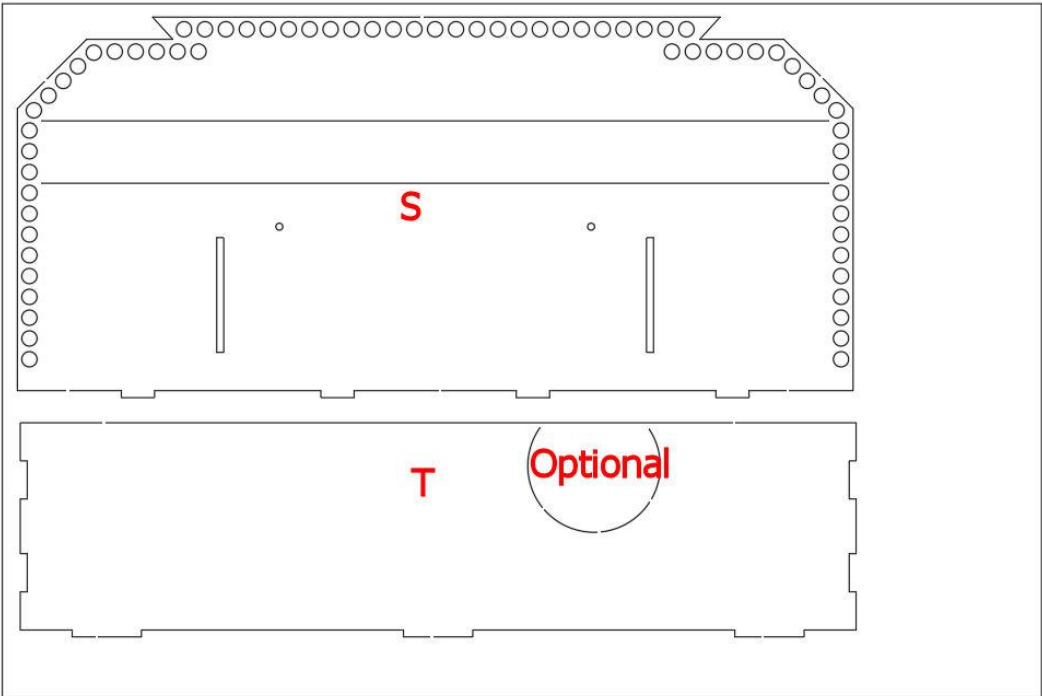
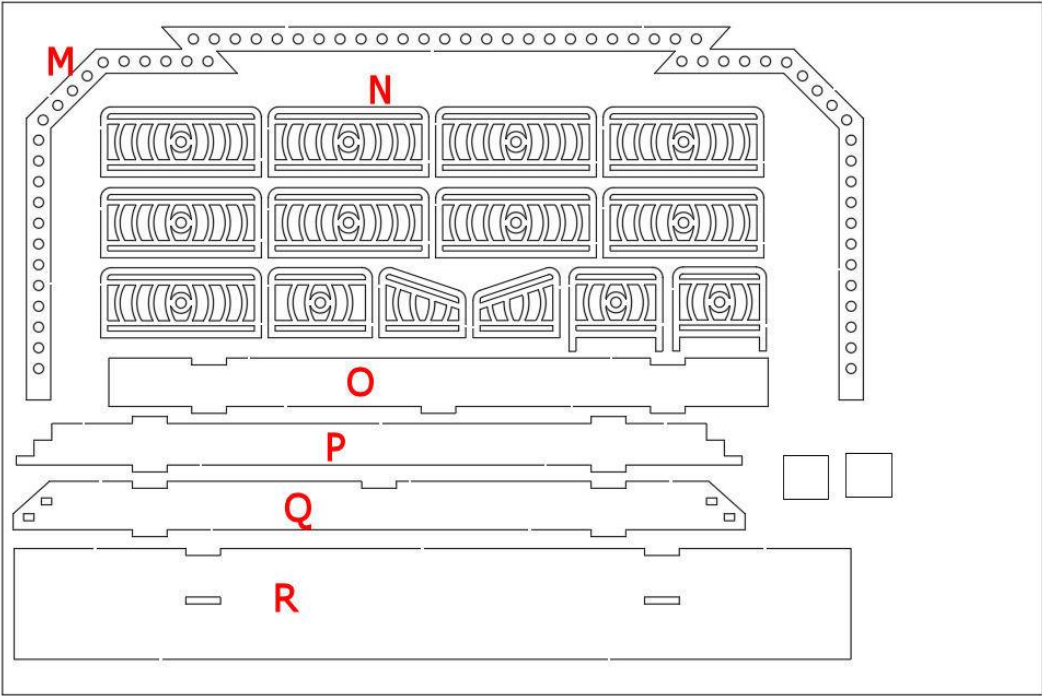
Parts list,

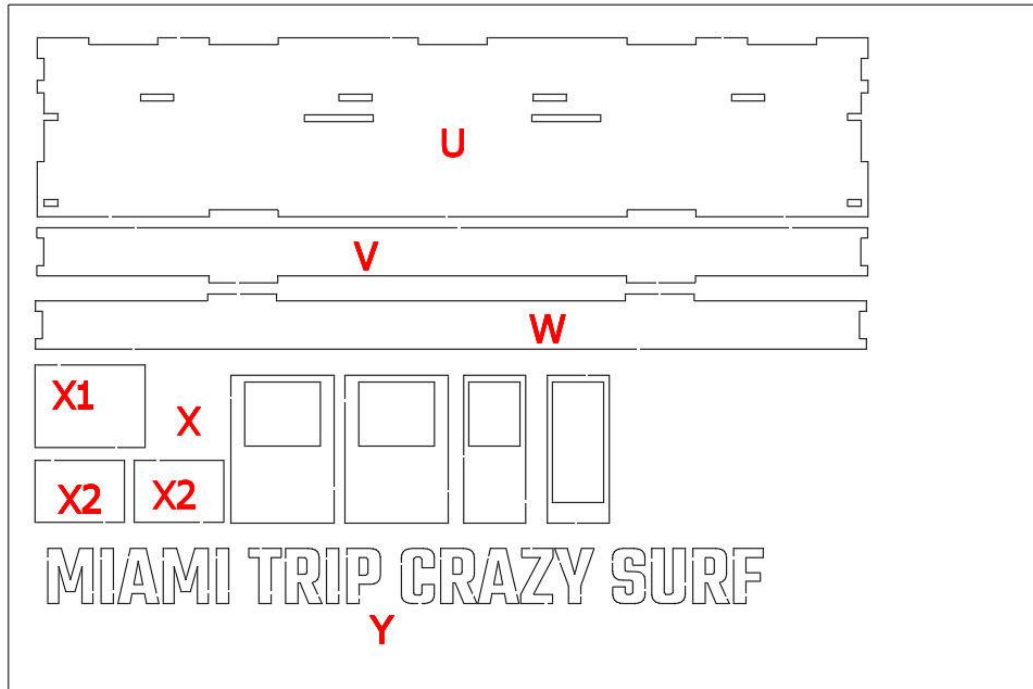
Plastic tube supplied for pivots – upgrade to 2mm brass rod if attempting to motorise



Note some holes in parts may need enlarging to suit





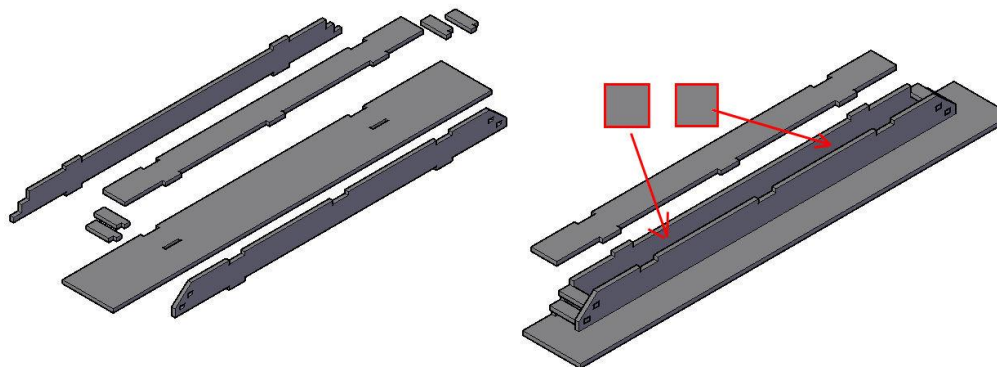


Steps and walkway assembly

Parts O,P,Q,R,L

Assemble 2 upright walls with top walkway, place against a square box etc to keep the walls straight up until dry, glue steps in after

Walls can fit in either side so make sure you fit them the right way see picture

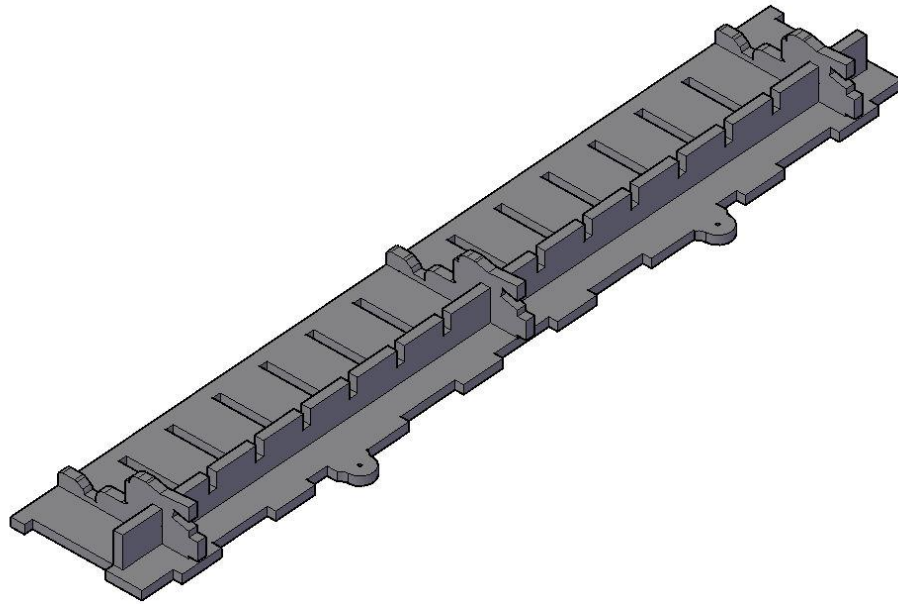


There are 2 extra square pieces that can be glued inside to help keep this square when building

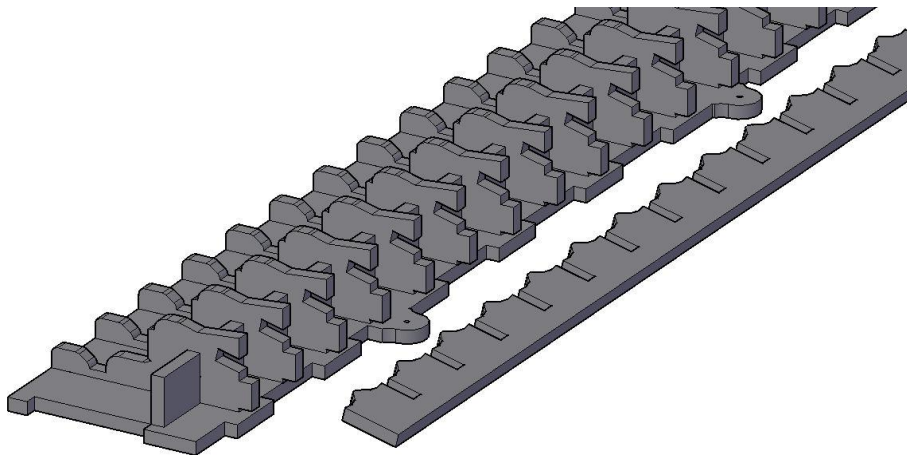
16 seat Gondola Assembly

Parts A,B,C,D,G,H,I

Slot the long piece C, into a few of the pieces, I and glue onto the seat back to get initial stability

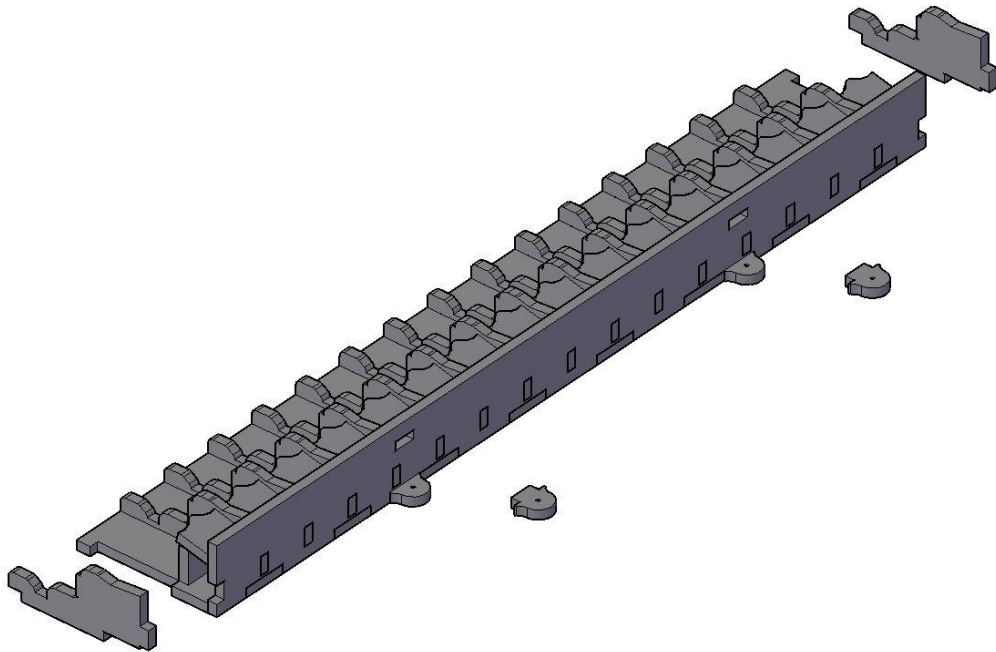


Fit the rest of the I, pieces then slide the seat front into the angled slots, this can be very awkward to locate but perceiver and file a little off if needed

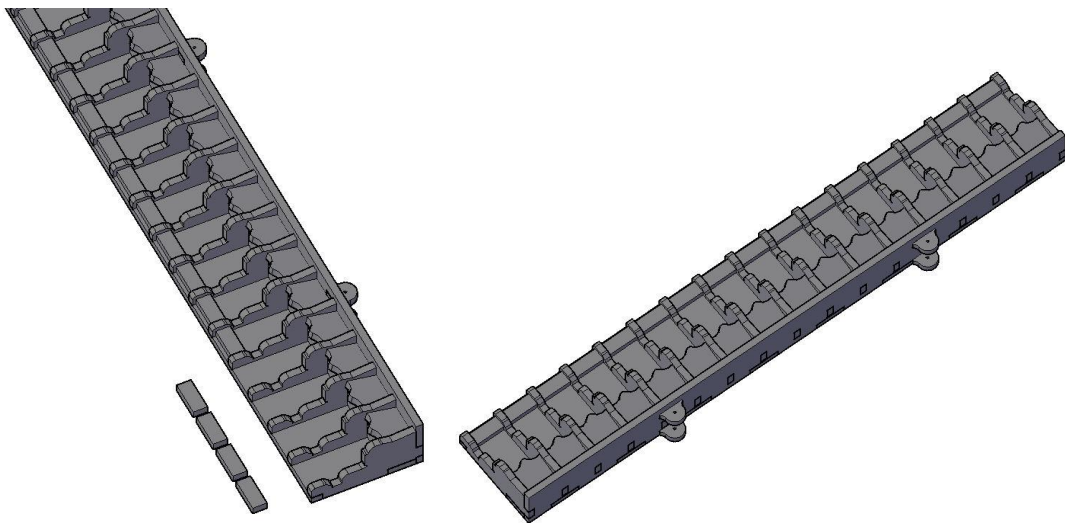


Next put the base on followed by the 2 H sides and the small pivots, I

Again the base can be a little tight so file slots slightly if needed



Finally fit the 16 small rectangle head rests, these are better fitted slightly lower than the top

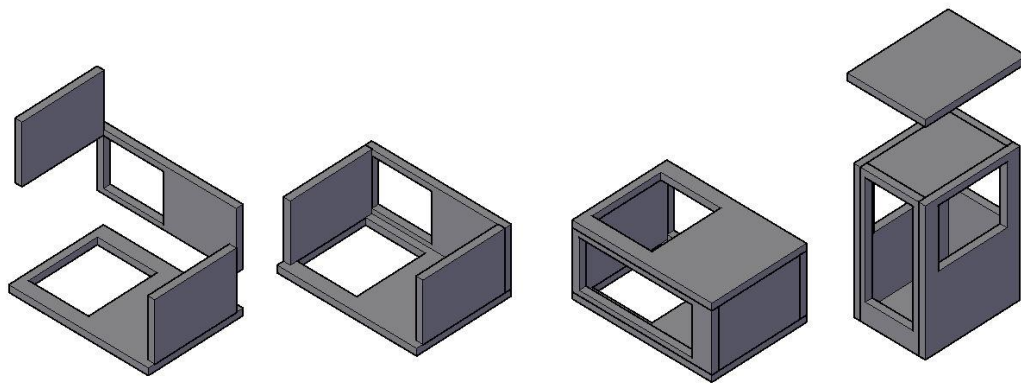


Pay box assembly

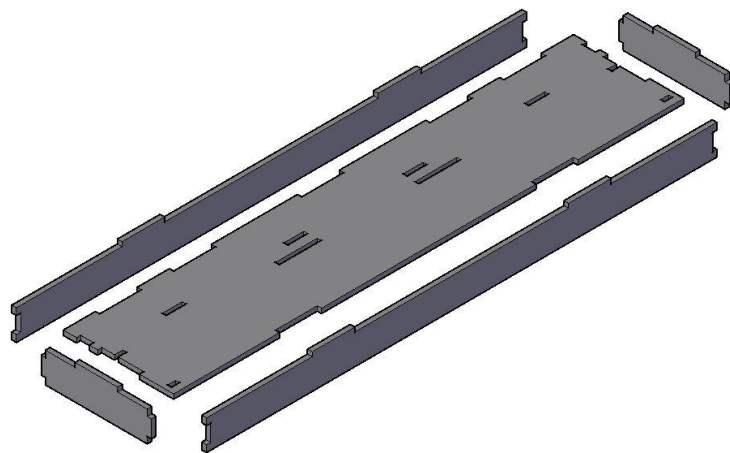
Parts X,X1,X2

It is easier to assemble one of the wider sides down, fit 1 thinner side wall on top of this flush with the edge followed by the top and bottom X2 pieces flush again.

Fit other sides then fit the roof X1 so it overhangs all the way around



Main platform assembly _____ Parts U,V,W,E

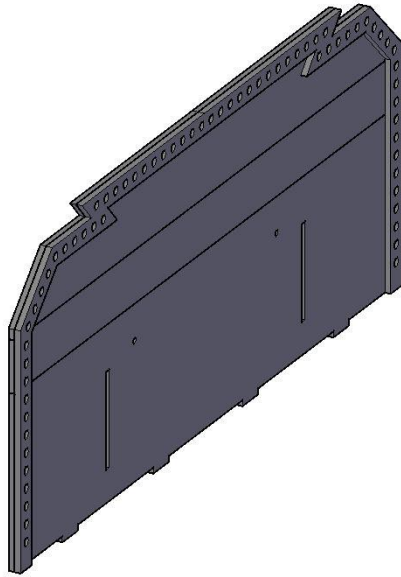


Backboard structure assembly

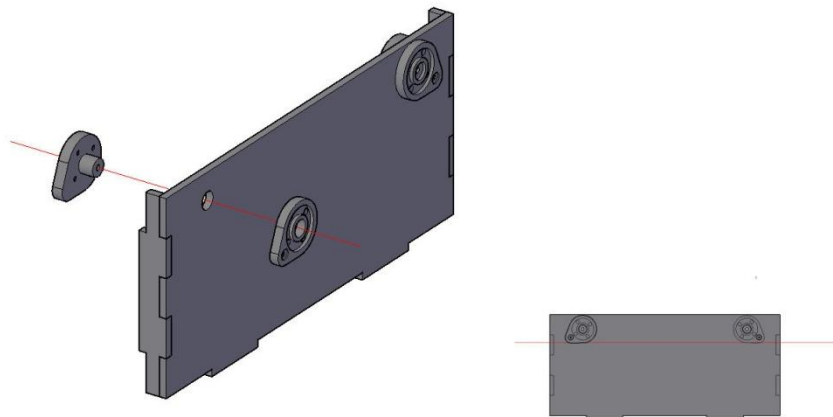
Parts S,M,K,J and plastic arm bearings

Glue the Light board, M flush with the outside of the main back board, S

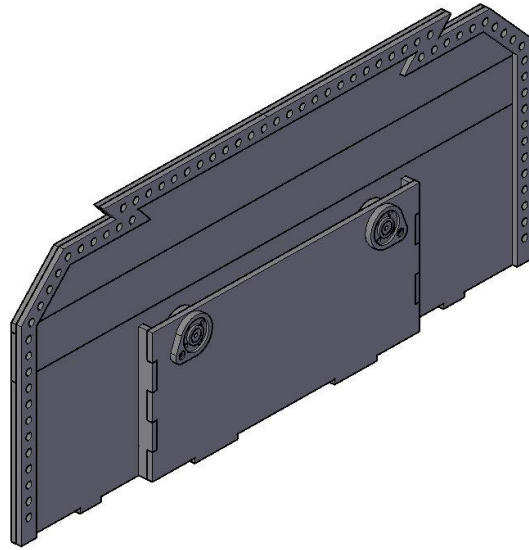
Make sure to clean any glue from the inside holes if you are going to fit LEDs



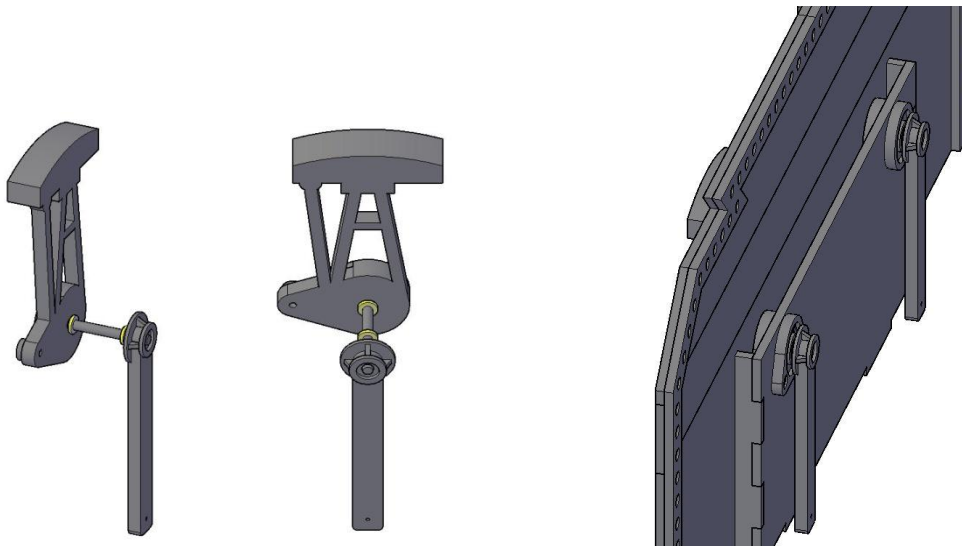
Glue the 2 Arm bearing assemblies into the board, K – push back through and glue to front and MDF, make the bottoms straight as picture below



Glue this assembly to the main back board

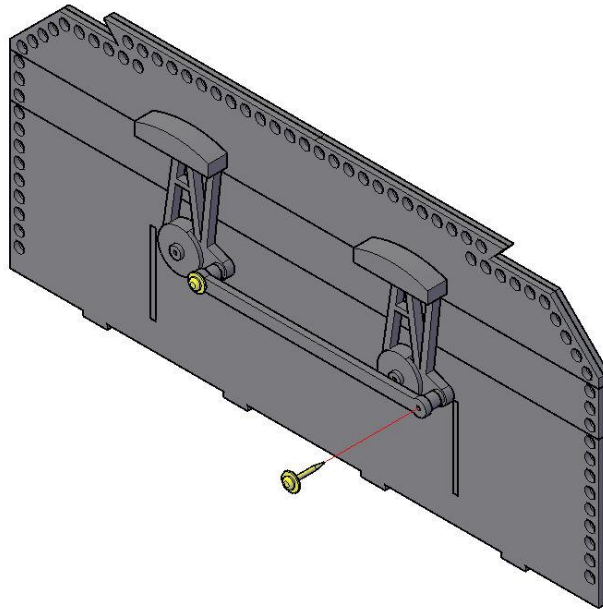


At this point if this is going to be static and you want the quickest build then the arms can be glued directly on to the bearings and the counterbalance weights to the back board, see further on for position, the gondola is then glued directly flat to the arms. If you are going to attempt motorising then fit washers between the arms and bearings to allow clearance as needed

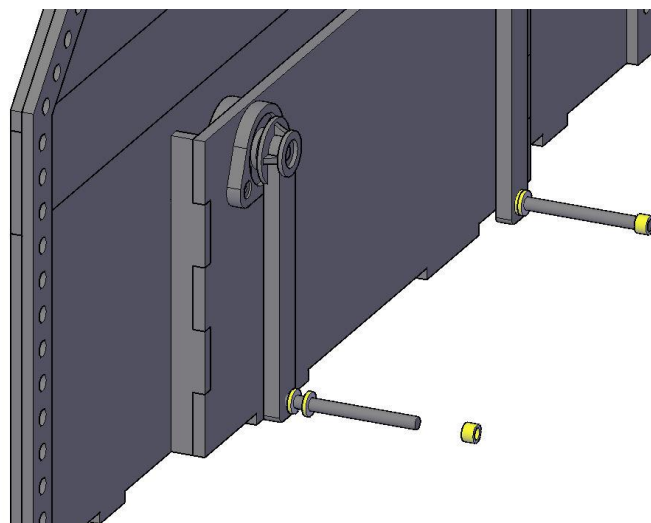


The arms point in the opposite direction to the weights, slide the shaft through the arm bearing then fix the arm and weight with glue etc so these are solid on shaft but the assembly turns freely in the bearing

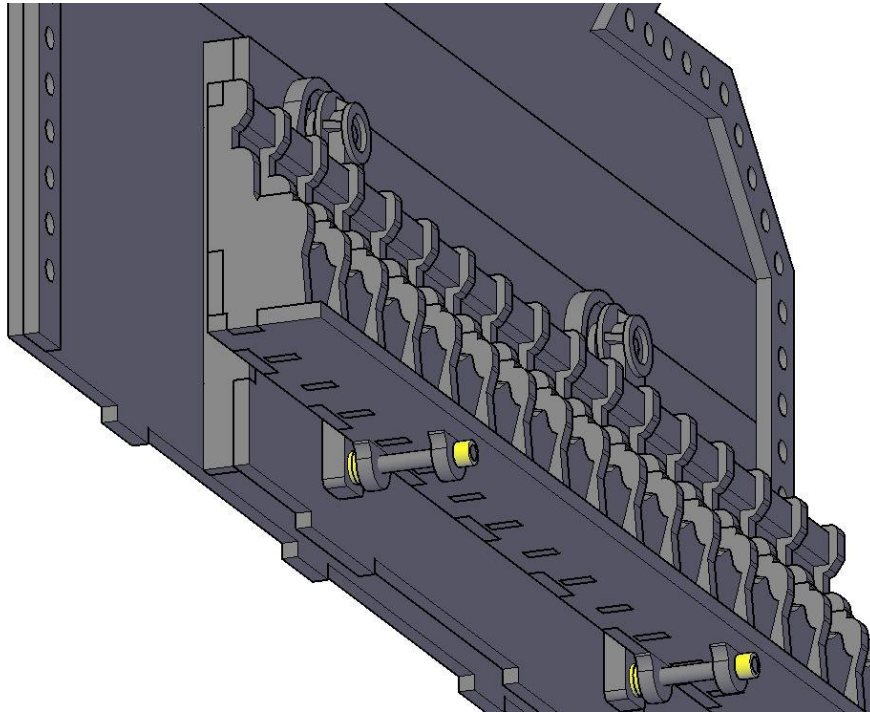
Fit the coupling rod on the back of the weights with the 2 screws; don't over tighten this if motorising as the coupling rod needs to rotate on the screw



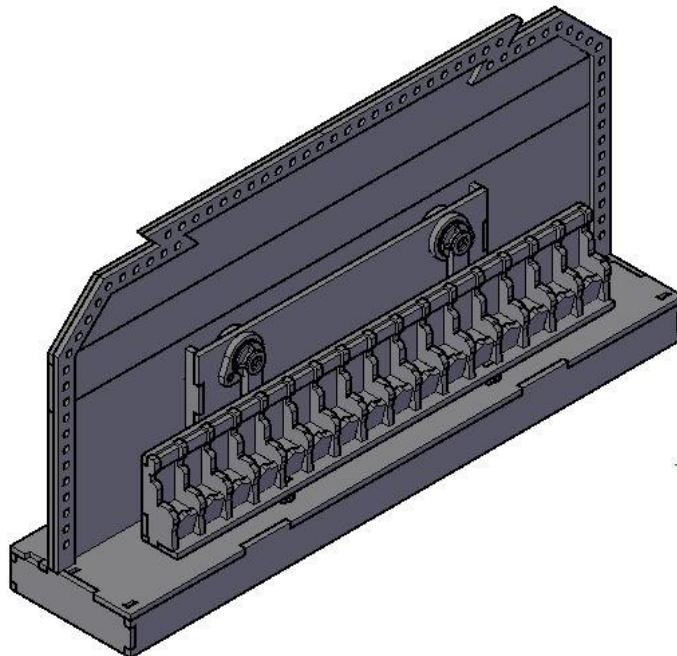
Shafts can now be glued into the lower arms for the gondola; small pieces of tube are glued on later to retain the gondola if attempting to motorise to allow rotation



Fit the gondola and glue on tubes, you will need to add a couple of washers behind the gondola if attempting to motorise

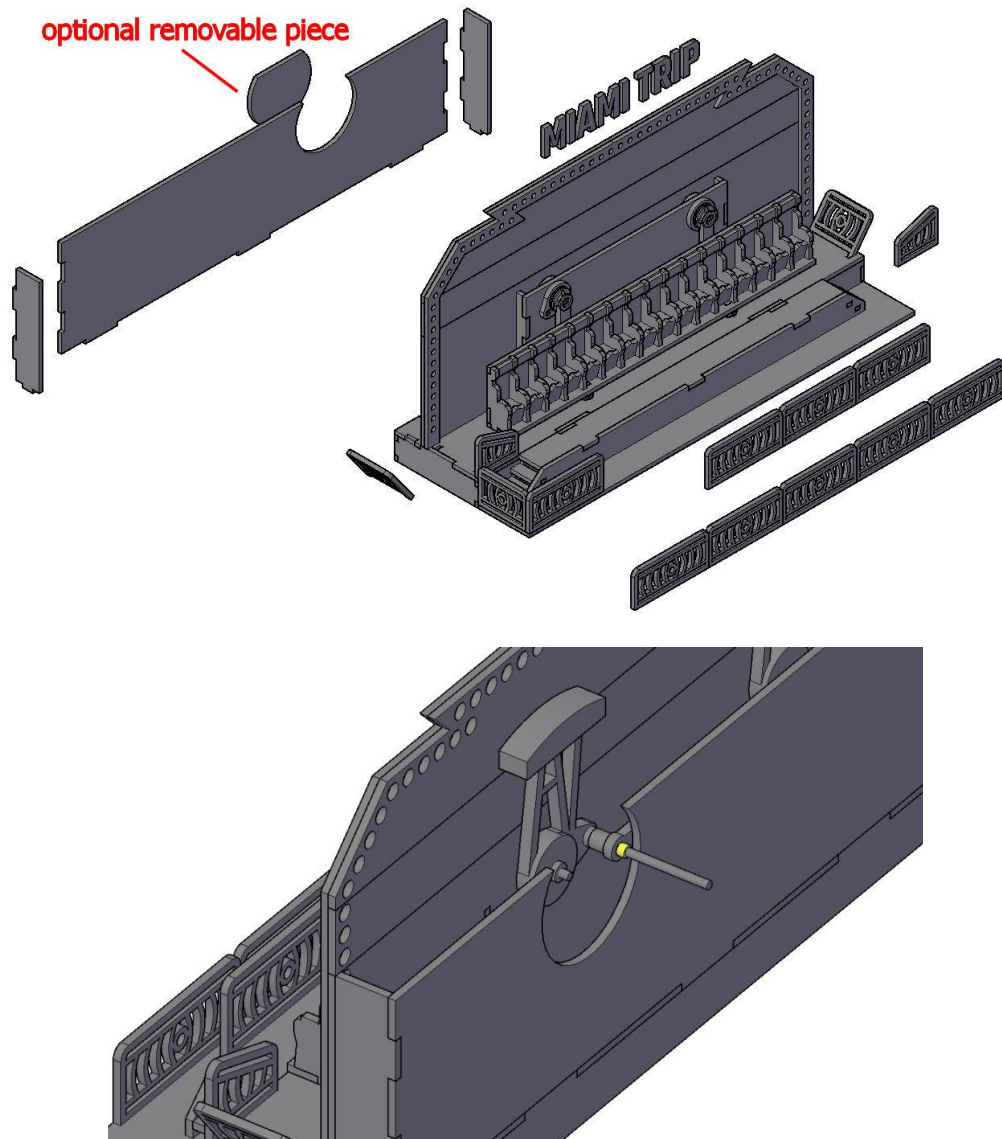


Glue the top assembly to the main base



Assemble the rear cover and fit the fences as show, these are just glued on the surface except for the 2 angled side ones which glue in slots.

There is an optional cut out on the back of the cover which can be removed if you want to try and fit a hand crank, this will involve removing the screw from the coupling rod and replacing it with a piece of shaft and a bit of tube to hold it back in place. The shaft will need gluing into the counterbalance weight.



The Miami model was designed as a static model but is capable of being motorised but you will need to work this out on your own as there are no plans or parts for this, the above crank is possible if you have experience.

Working with Laser cut MDF

If you are new to this type of kit then the following may be useful

The burnt smell is common on all MDF laser cut kits; you can wear gloves if you are concerned about getting charcoal marks on your hands from the edges or the burnt wood smell on your hands

You may wish to spray a primer/undercoat on the sheets before cutting out pieces or if you would rather undercoat the model once assembled.

Cut the holding tabs to free the pieces with a sharp utility knife, snap off blades are good.

File the remnant of the holding tabs with a sanding block or fine file

Make sure you undercoat the burnt edges; you may need more than one coat of primer/undercoat to seal the MDF

You can paint the parts before assembly but either way make sure the parts easily slot together, if not don't force them as small parts easily break – if they are a little tight then file the slot open more.

Once you are satisfied with the fit apply a wood glue or suitable glue and allow parts to set where needed before commencing the rest of the model.

You can use a small stiff bristle brush or old toothbrush to aid removing excess glue as you work, just have some water and a rag to keep cleaning your brush as you go.

Any gaps or places you need to hide the tab edges coming through slots just use ready mixed wood filler and sand/undercoat.

Some edges on corners etc can be made more attractive if rounded slightly with a sanding block or sanding sponge block before painting.