

3D Model by Gary Reign

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The files provided will allow the user to produce a scale model of the 'Moon Mobile' as seen in the Gerry Anderson TV Show 'UFO'. (The UFO moon mobile was preceded by the similar 'Moon Hopper' shown in 'Captain Scarlet & the Mysterons'.) The model represents my interpretation of the model as seen in various screen captures and as modeled by others. Feel free to modify, enhance or otherwise change the model to your liking. **NOTE:** This model does not include files (other than the 4 foot pads) to produce the complex landing gear structure. It is assumed the hobbyist can construct that on their own using suitable materials such as brass rod and tubing. Please refer to the many photos available online for additional details and painting information.

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You may use these files as you wish but may not use them to produce kits or finished models for sale commercially.



The model is designed to be printed using a medium sized MSLA (resin) printer (e.g. the Elegoo Saturn). The picture of the model you see above was printed at 140% scaling of the stl files. Printing smaller than that has not been tested and may require modifications to strengthen smaller pieces so they will print successfully. Printing this model should only be attempted by an experienced 3D printer user. It may be possible to print this using an FDM (filament) printer but this has not been verified.

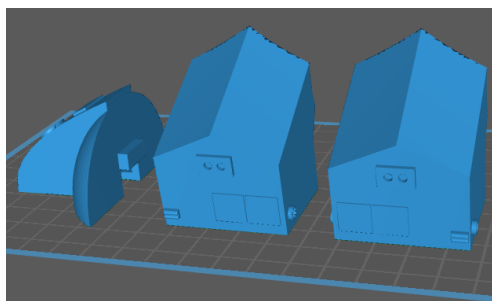
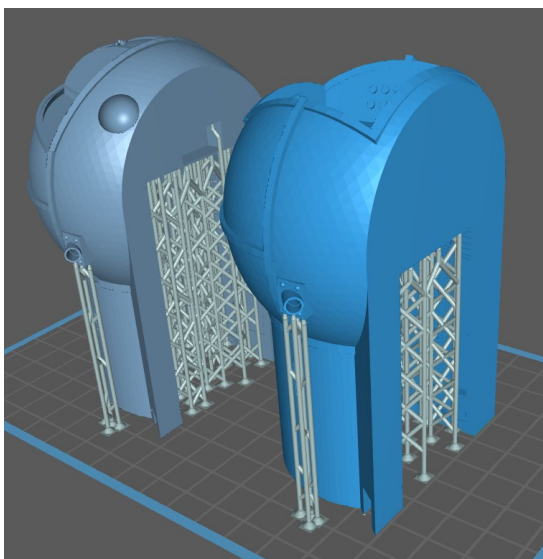
The five large main pieces of the model are provided in two forms, pre-hollowed and solid. For use on a resin printer, I recommend you use the pre-hollowed versions. The solid versions can be used for printing with a filament printer. The files are named to identify them as solid or hollow. All of the other detail pieces use the same files for both versions.

When printing the large pieces on a resin printer, orient them as shown below for best results. Supports will be needed for some of the exterior details as well as the internal structure. Let your slicer determine the best placement. Use your judgment to arrange the smaller parts when printing. Drain holes and pressure release openings have been designed into the larger models.

Note: Multiple copies of some of the parts are required. Please refer to the parts list on the last page to identify them.

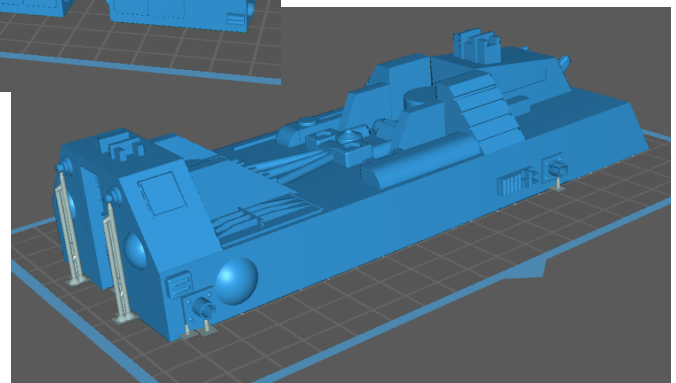
IMPORTANT: Please familiarize yourself with these instructions and the parts list on the last page before starting!

Enjoy!

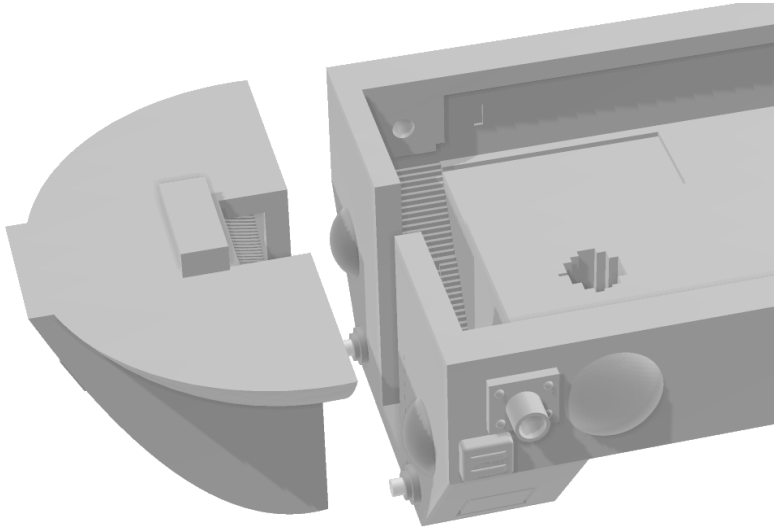


Note: There is only one stl file for the two large side pieces (shown on the left). Make a mirror image of the one for printing the other side.

Set up your supports as necessary to ensure a good print. The ones shown worked for the prototype.

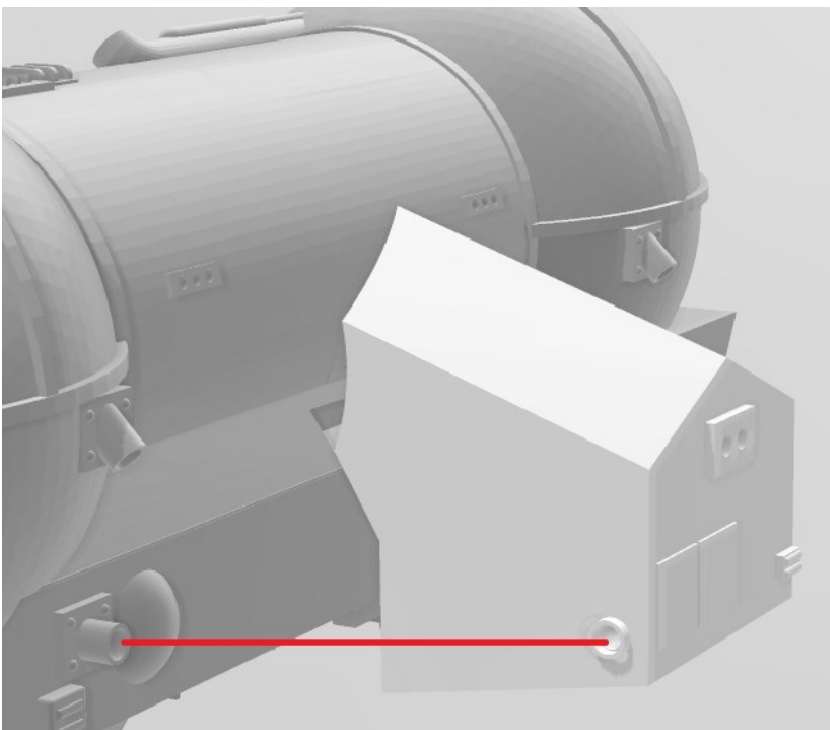
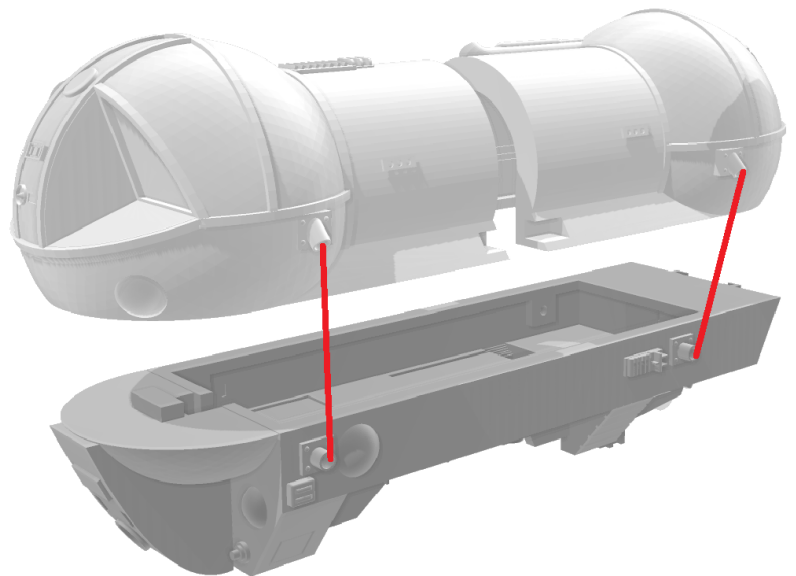


To begin assembly, glue the lower front section of the model to the main lower half. Ensure the pieces are flush at the top.



Next, glue the two top pieces to the bottom being very careful to line them up properly starting at the front.

NOTE: Make sure the landing gear mounts on the top and bottom pieces line up vertically as shown by the red lines. Make any adjustments to the parts if necessary to achieve a proper alignment.



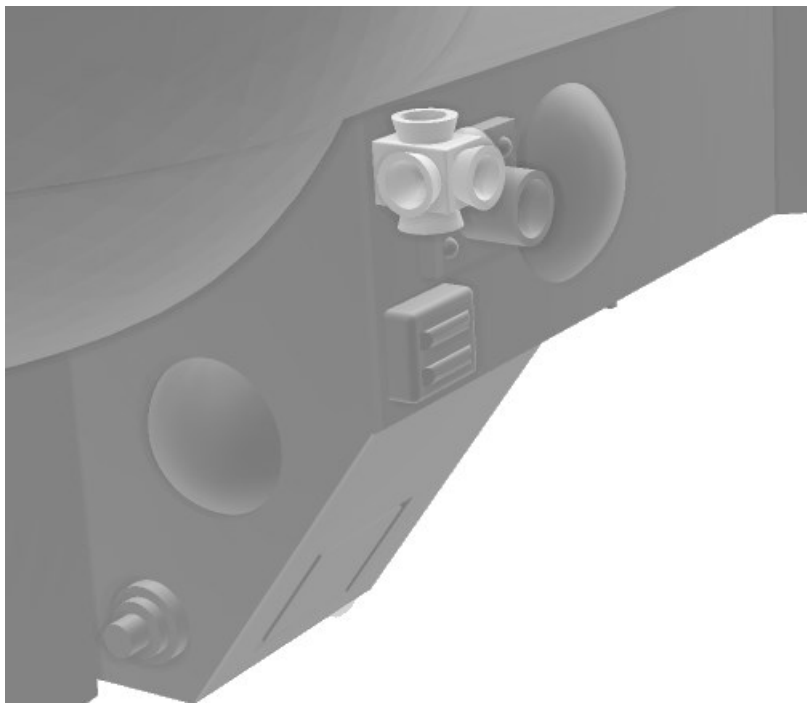
The two mirrored side pieces can now be glued to the main body. Note the slots and tabs to assist with the correct placement. If necessary, sand the tab to ensure a good fit; do not force the parts together.

NOTE: Make sure to adjust the placement so the landing gear tube on the side pieces line up horizontally with the bottom landing gear mount on the main body as shown by the red line.

Use your preferred brand of modeling putty to fill any gaps between the sections. The drain slots in the bottom of these side pieces can be filled with a piece of scrap styrene.

The detail parts can now be added to the model.

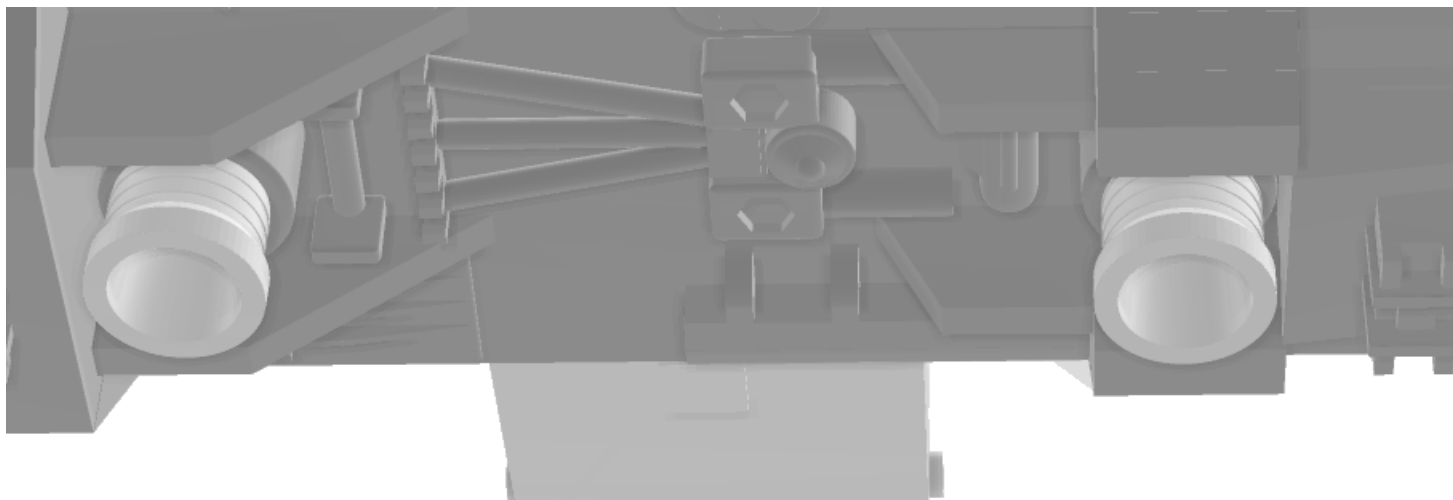
The two small thruster units can be glued to the lower front skirt of the model as shown below.



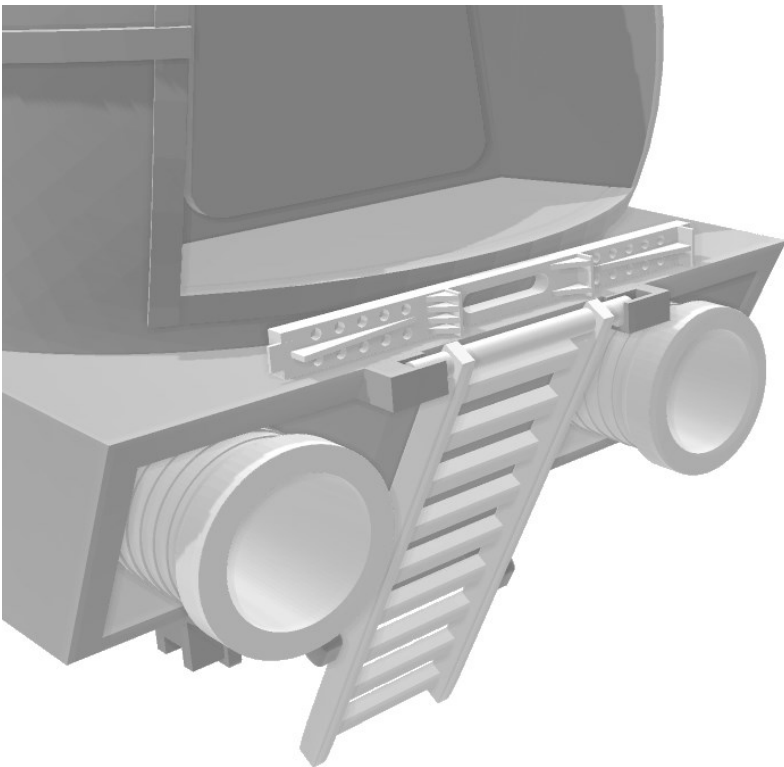
The small antenna can be glued to the top of the front sphere. You may need to trim or sand the bottom supports to make a good fit.



The two shorter engine nozzles can be glued to their respective places on the underside of the model.



The two longer engine nozzles can be glued into the openings at the back of the lower section. The rear step detail piece is positioned as shown just past the door opening. Before installing the ladder, you may need to file down the round peg to get it to fit easily into the slots provided. The ladder should rest against the sloped portion of the bottom frame and can be glued to the two support tabs jutting from the bottom.



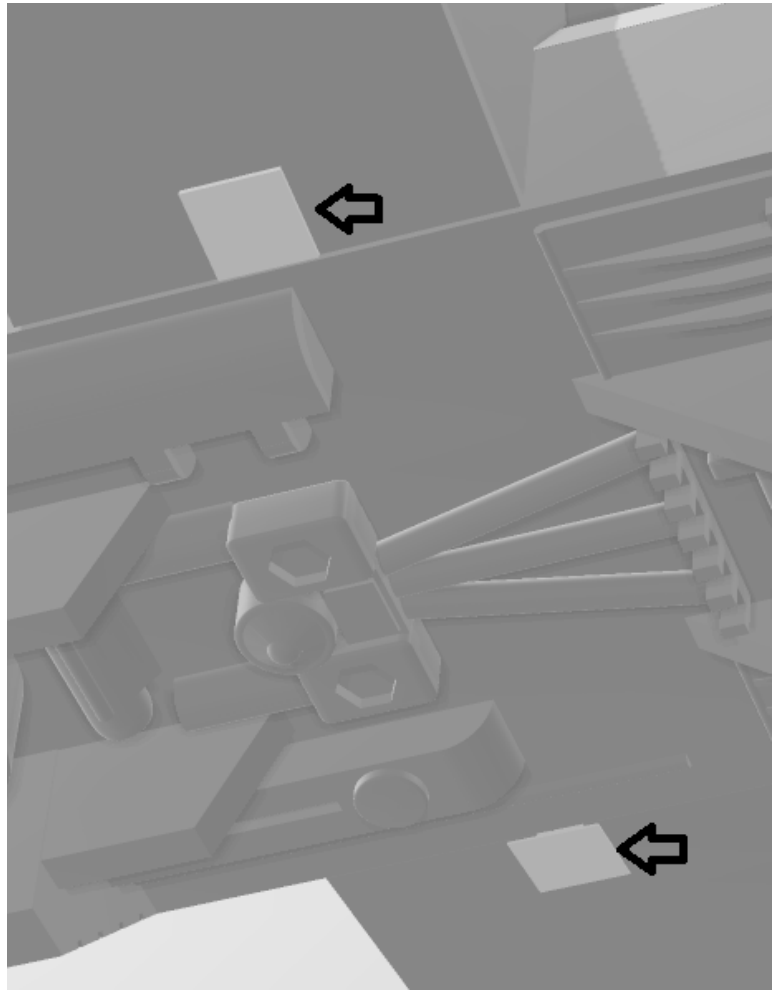
If you wish to include grab bars as shown here, fabricate two pieces from brass rod. Drill two holes and insert them as indicated.



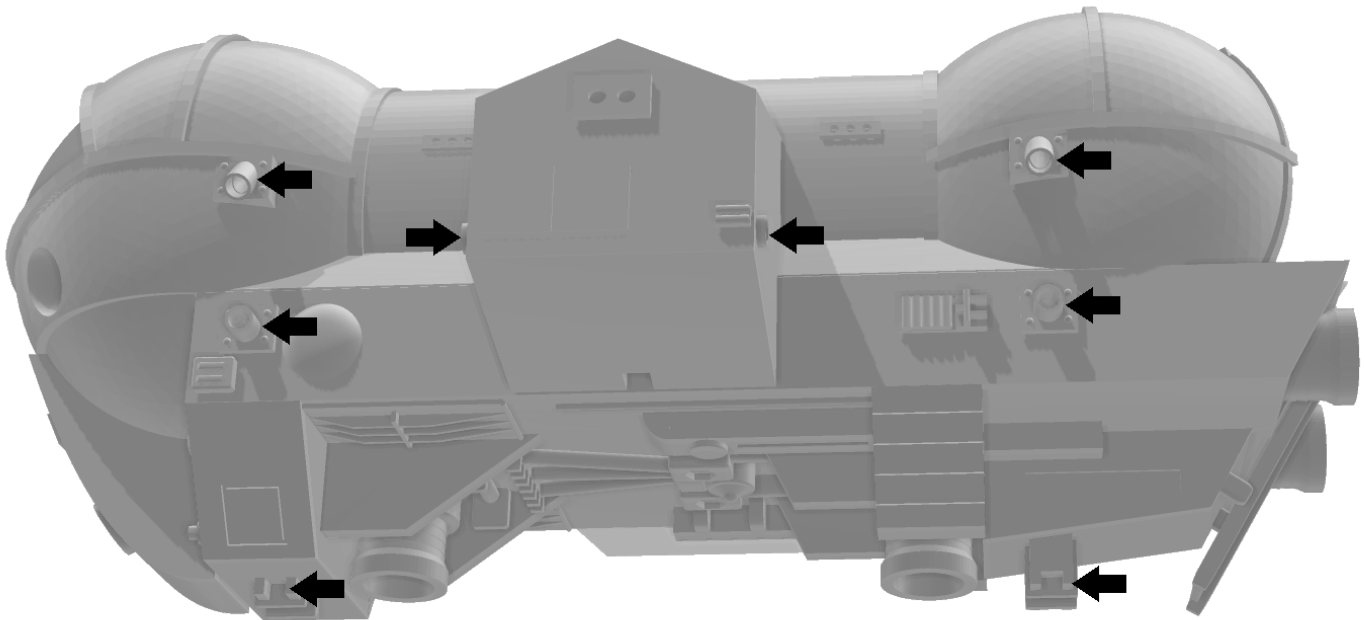
Glue the wheel to the center of the door. The hinge plate is glued flat against the door with the two extensions touching the side.

Lastly, cut two thin pieces of scrap styrene and use them to fill the drain holes in the bottom of the sides if you used the hollow models.

A model for the landing feet is included but you will have to fabricate the remainder of the landing gear from brass rod and/or tubing. Refer to the many pictures and diagrams of this model on the Internet.



The arrows below show the connection points between the model and the landing gear. Utilize pictures from the Internet to show the structure of the landing gear.



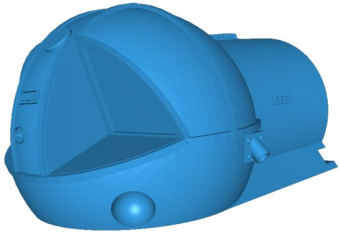


The assembled and painted prototype model.

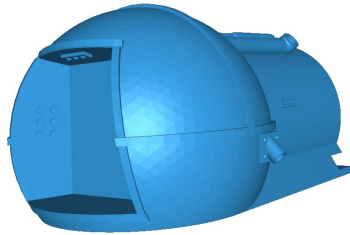


Parts List and File Names

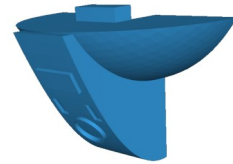
Parts with an x and number (i.e. x2) indicate the quantity of copies of that part needed to complete the model.



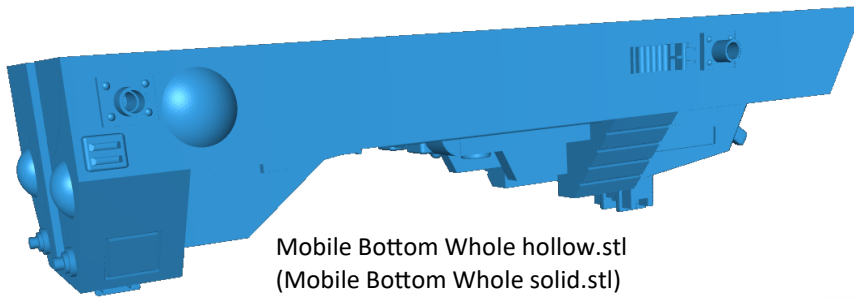
Mobile Front top rep hollow.stl
(Mobile Front top solid.stl)



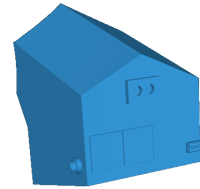
Mobile Rear rep hollow.stl
(Mobile Rear solid.stl)



Mobile Front bottom hollow.stl
(Mobile Front bottom solid.stl)



Mobile Bottom Whole hollow.stl
(Mobile Bottom Whole solid.stl)



x 2 (mirrored)

Moon Mobile side hollow.stl
(Moon Mobile side solid.stl)

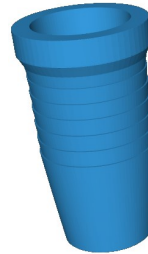


Moon Mobile Antenna.stl



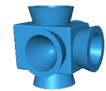
x 2

Moon Mobile engine center.stl



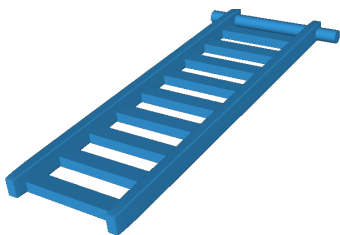
x 2

Moon Mobile engine rear.stl

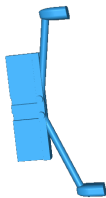


x 2

Moon Mobile thrusters.stl



Moon Mobile Ladder.stl



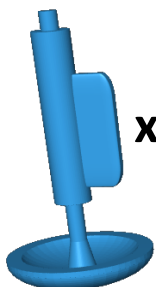
Moon Mobile hinge.stl



Moon Mobile Wheel.stl



Moon Mobile rear step detail.stl



x 4

Moon Mobile Foot.stl