

## GENESIS MISSION SPACECRAFT MODEL

**Note:** Instructions online at <http://genesission.jpl.nasa.gov/mission/craft/craftmodel.html>

### Supplies Needed

- Printed model components
- Scissors
- Clear tape or glue (glue stick works well)
- Toothpick or a short piece of pipe cleaner
- Markers, colored pencils, or crayons (optional)

### To Assemble the Genesis Spacecraft Model:

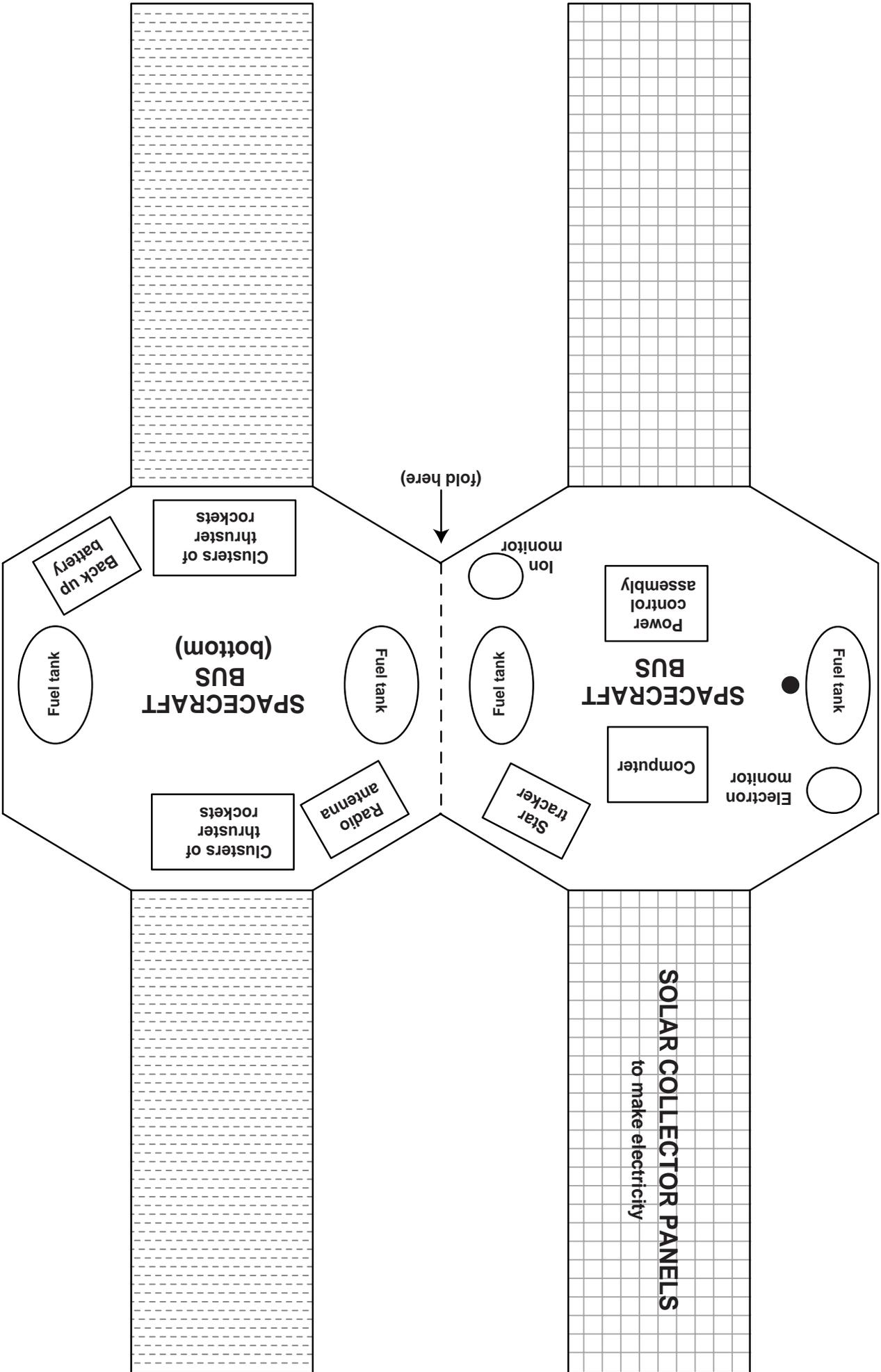
Read all directions carefully before assembly.

Print out the [spacecraft bus](#) and the [capsules and collectors](#) pages.

1. Color the spacecraft pieces (optional).
2. Carefully cut out all of the components.
3. Fold the spacecraft bus on the dotted line and glue or tape the spacecraft bus front and back together, being careful to line up the two pieces so that they match.
4. Curve the side of the Science Canister, glue or tape on the overlap, and glue or tape the edges to the base.
5. Curve the side of the Sample Return Capsule, glue or tape on the overlap, and glue or tape the edges to the base.
6. Push a toothpick or pipe cleaner through the darkened circle on the SpacecraftBus.
7. Place the Sample Return Capsule on top of the Spacecraft Bus and secure by pushing the toothpick or pipe cleaner through the darkened circle on the base of the Sample Return Capsule.
8. Place the Science Canister inside the Sample Return Capsule and secure by pushing the toothpick or pipe cleaner through the darkened circle on the base of the Sample Return Capsule.
9. Secure the four Collector Arrays by pushing the toothpick or pipe cleaner through the darkened circles, placing the arrays in numerical order. The Arrays should be inside the Science Canister.

### The Finished Piece:

While the Genesis spacecraft is gathering samples, the lids of the Science Canister and Sample Return Capsule will be open. The four Collector Arrays can spread out individually. When the spacecraft is ready to return to Earth, the Collector Arrays will be stored inside the Science Canister, which will be inside the Sample Return Capsule.



(fold here)

**SPACECRAFT  
BUS  
(bottom)**

**SPACECRAFT  
BUS**

**SOLAR COLLECTOR PANELS**  
to make electricity

Back up  
battery

Clusters of  
thruster  
rockets

Fuel tank

Fuel tank

Clusters of  
thruster  
rockets

Radio  
antenna

Ion  
monitor

Power  
control  
assembly

Fuel tank

Fuel tank

Computer

Star  
tracker

Electron  
monitor

