Spacecraft propellant is going green. Ball Aerospace is leading the team that will demonstrate a new high performance, non-toxic propulsion fuel on orbit for the first time.
INSTRUCTIONS

1. Score each part before cutting out.
2. Cut out and assemble; matching number sets.
3. Fold parts along score lines.
4. Checkfit each part before gluing, matching alignment as indicated.
5. Assemble using minimal glue; wipe off excess.

TOOLS NEEDED

- Small scissors (for cutting all curved lines)
- Hobby knife with a new blade (required for cylinders)
- Scriber, ball-point pen, small knitting needle or large, smooth sewing needle (for scoring folds)
- Ruler
- Cutting board, if using a hobby knife (tagboard or cardboard is OK)
- Dowel or round pencil; table edge is OK (for forming curved parts)
- Rubber or foam pad (for forming curved parts)
- Tweezers (for holding and bending small parts)
- White glue
- Toothpicks (for glue applications)

FORMING PARTS

- Scoring slightly weakens the paper so you can make perfect folds. Use a scriber or other round-tipped tool to firmly draw along fold lines.
- To form a cylinder, roll the part between a dowel or round pencil and a foam pad; repeat as needed. Before gluing, check for a good fit.
- It is best to use glue very sparingly; too much results in warping and excessive drying times. Use a toothpick with a small puddle of glue on scrap paper. Do not try to glue too much at a time on any part. Glue only 4 or 5 tabs at a time, and let them dry before moving on.
Simplified Payload

Center Thruster

Top Deck

Thruster 1
Thruster 2
Thruster 3
Thruster 4

Mount 1
Mount 2
Mount 3
Mount 4
Perpendicular Solar Panel
Angled Solar Panel

Model Stand