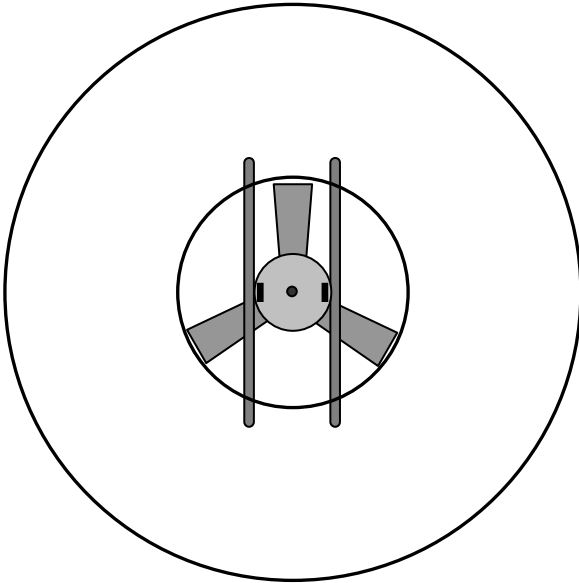
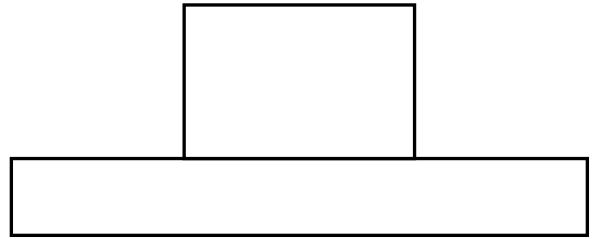


# Hovercraft Construction Guide

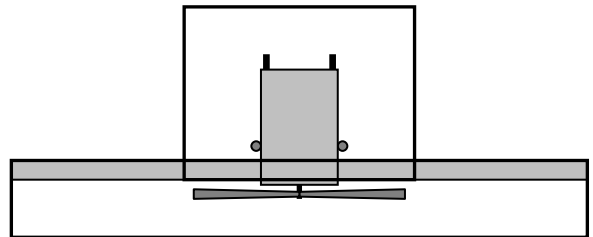
Top View



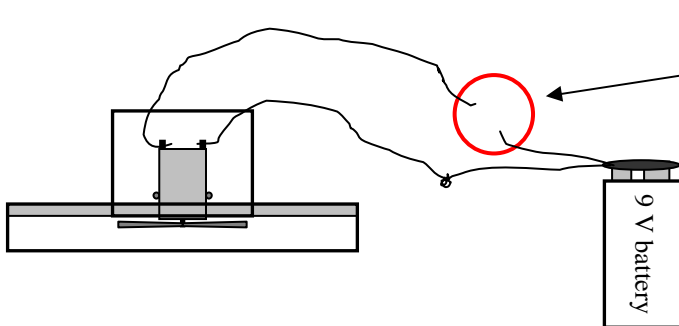
Side View



Side View (x-ray)



- Use a new, extremely sharp craft knife (“X-Acto Knife”) to cut along the lines of the foam board “donut.”
- Attach the thin strip of paper to the outer circumference of the donut by putting down a thin bead of glue a few inches in length, pressing the paper against the edge, and continue all the way around.
- Perform a similar process with the thick air intake strip of paper. Roll the thick strip of paper so it will fit inside the donut’s opening, put a small amount of hot glue on the inside circumference of the donut, attach the strip, add more glue, and work your way around.
- **Be sure that the top of the thin strip is even with the top of the foam board and that the bottom of the thick strip is even with the bottom of the foam board.**
- Place a tiny dot of white glue in the propeller and then push it firmly onto the motor shaft. Be sure no glue drips down onto or into the motor!
- The ideal placement of the propeller is either in or slightly protruding from the bottom of the air intake tube. Be sure that the propeller doesn’t extend so far down that it makes contact with the table.
- Taking into account the motor’s diameter and where you want the propeller to be, use a pencil to mark where the wooden strut pieces will pass through the air intake tube.
- Insert the wooden struts and glue the motor to the struts. **Keep glue away from any openings on the motor!**
- Possible way to wire your hovercraft:



This is where any kind of “switch” could be placed to turn on/off your hovercraft. The switch could be an actual switch device (such as a “miniature snap-action switch” or “micro switch from Ax-Man), or *any conductive object* that completes the circuit.

