



Caution: *Not intended for children. Boat contains small parts, has sharp edges, and is colored with lead-based paint. Uses open flame; do not leave unattended.*

Made from recycled tin plate, these boats are the product of a small cottage industry in India. No two are exactly alike. The boats are simple (even a bit crude) with just a base coat of paint and some may even have rust spots. Before using the boat, please take a moment to check the following:

- In most cases, you will need to trim the wicks on the candles so that they are no longer than 1/4" above the surface of the candle. This will control the height of the flame and reduce candle smoke.
- You will probably also have to form the thin strip handle on the candle pan to ensure that the candle is in the right position under the boiler.
- The little flag on the front of each boat has been folded down for shipment, so be sure to raise it.

This boat is powered by the world's simplest steam engine – a small diaphragm (boiler) connected to two tubes (exhaust pipes). When the system is filled with water and a tiny candle is put under the diaphragm, it creates steam that expels water out of the tubes. The steam then condenses, creating a vacuum that draws water in. Since the water is expelled more quickly than it is taken in, the result is a net propulsive force. One of the most amazing parts of the whole process is that the boat makes a "putting" noise similar to that of a small motor boat.

Making More Candles

Use a finger to form a series of little cups in a piece aluminum foil. Lay a cotton string in each cup with a portion of the string exposed. Melt wax in a double boiler, and then spoon the melted wax into the prepared cups. Once the wax has hardened, trim the wicks down to 1/4". You will find that candles half the thickness of the original ones are the easiest to make and will still give you ample running time. A bit of experimentation will soon refine your process.



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