

# Build-a-boat



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## Tools Needed for This Activity

Process	Process Description	Recommended Tool	Alternate Tool
Cutting	Cutting dowels, strips, recycling bin items, etc.	Multi-cutter 1373816	Saw, pruning shears, etc.
Reaming	Changing splined holes in components from press fit (dowels press and stay) to loose fit (dowels are able to slide and rotate)	Reamer 1373819	#3 drill bit and drill
Screwing	Tightening and loosening screws	Screwdriver 1373817 and 1373822	None
Holding and Pulling	Holding nuts, pulling apart components	Pliers 1373820	None
Soldering	Soldering wires to motors or other wires	Soldering Iron + Solder 1373818	None
Solar Power	Convert your Electric Racer to a Solar Sprinter	Solar Panel	None

## Kit Contents

Component	10 Pack Quantity	Single Quantity
1" Screws	40	4
Mini Motor Hub Covers	10	1
Mini Motor Hub Bases	10	1
1.5–3.0 Motors	10	1
Motor Mounts	10	1
Battery Holder (2AA) w/ Switch & Leads	10	1
Perpendicular Blocks	20	2
Hex Nuts	40	4
Connector Strips	30	3
Zip Ties	40	4
Dowels	40	4
Hub Screws	10	1
Toothpicks	100	10



**Make Your Boat Even Better  
by Incorporating Recycling Bin Material**



**Incredible, affordable inventions  
that really work!**