

# Electric Race Car



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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
Connector Strips	40	4
70 mm Pulleys	20	2
55.5 mm Pulleys	10	1
25.5 mm Pulleys	10	1
9 mm Pulleys	10	1
50 Tooth Gears	10	1
40 Tooth Gears	10	1
20 Tooth Gears	10	1
10 Tooth Gears	10	1
Wheels	40	4
Rubber Band Tires	40	4
Small Rubber Bands	100	10

Component	10 Pack Quantity	Single Quantity
Slide-stop 300 mm Sections	3	1/3 (100 mm)
Perpendicular Blocks	40	4
Dowels	80	8
Stop Clips	40	4
Angle Brackets	20	2
1 1/2" Screws	20	2
Hex Nuts	60	6
Fender Washers	20	2
5/8" Screws	60	6
Project Motors	10	1
Project Motor Mounts	10	1
Motor Adaptor Pins	15	1



**Make Your Electric Race Car Even Better  
by Incorporating Recycling Bin Material**



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