

Part #	Part Name	Qty	Dimensions inches	Function	Material	Density	Mass or Weight	Texture and Finish	Interaction with Other Parts	General Notes (i.e.; wear, stress indicators)
1	Windshield	1	L=3.035 W=2.667 H=1.756	protects people inside the passenger section	polycarbonate	1.2 g/cm <sup>3</sup>	0.054 lbmass	polycarbonate clear	connected to middle passenger section	
2	simplified wheel	4	d=1.449 H=.693	moves car around swiftly	ABS plastic	1.06 g/cm <sup>3</sup>	.006 lbmass	smooth white	connected to axles	
3	back section	1	L=3.4695 W=3.2305 H=1.53 d=0.915	trunk - holds 2 axles and wheels	wood (birch)	.55 g/cm <sup>3</sup>	1.22 lbmass	Birch natural medium gloss	connected to middle section with connector	
4	middle section	1	L=3.283 W=3.246 H=1.5315	passenger section	wood (birch)	0.55 g/cm <sup>3</sup>	0.181 lbmass	Birch natural medium gloss	connected to both back and front as well as the passenger base and windshield	
5	front section	1	L=3.3979 W=1.608 H=1.5275	bumper - holds 2 axles and wheels	wood (birch)	.55 g/cm <sup>3</sup>	.106 lb mass	Birch natural medium gloss	connected to middle section with connector	
6	connector	2	L=2.175 W=0.9899 H=0.679	connects front and back section to middle section	ABS plastic	1 g/cm <sup>3</sup>	0.036 lbmass	generic	connects front and back to middle	
7	axle	4	w=0.0392 d=0.0221	lets wheels move freely	PVC- piping	1.4 g/cm <sup>3</sup>	0.002 lbmass	smooth white	connected to front and back and wheels	