

| | | Description | Specifications | Man. Part # | Quantity | Price/1 | Price/1000 | Material | Dimensions | Source |
|----------------|--------------------------|----------------------|--|----------------|----------------|---------|----------------|-----------------------|---------------------------|-------------------------|
| Power Train | Pedals | Pedals | | | 1 | \$7.99 | \$4.19 | Plastic/Metal | | \$4.19 n/a |
| | | Crank arm | | | 2 | \$1.10 | \$1.10 | | | \$2.20 McMaster-Carr |
| | | | | | | | | | 1/2" | |
| | Gearbox | Ball Bearing 1 | 1/4" ID 11/16" OD Flanged Doubl Sealed | 31162-88 | 2 | 6.3 | \$1.25 | Machined Carbon Steel | | Wholesale Bearings |
| | | Ball Bearing 2 | 5/16" ID 7/8" OD Flanged Double Sealed | 31461-88 | 2 | 6.8 | \$1.35 | Machined Carbon Steel | | Wholesale Bearings |
| | | Lube | <i>don't need for selected bearings</i> | | | | | | | \$0.00 |
| | | Brackets/Brace | <i>made from leftover plywood from seat back</i> | | | | | | | \$2.29 McMaster-Carr |
| | | Screws | No. 4 # Drive | 90031A135 | 40 | \$0.06 | \$0.06 | | | US Plastics or Corrtec |
| | | Casing | PVC sheet stock 48" x 96" | 45032 | 1 | \$24.00 | \$7.59 | PVC | 1 sheet produces 16 units | |
| | Drive | E clip 3/8 | E cip for 3/8s shaft | 99620A630 | 2 | \$0.14 | \$0.14 | Steel | | McMaster-Carr |
| | | E clip 5/16 | E clip for 5/16 shaft | 99620A615 | 6 | \$0.12 | \$0.12 | Steel | | McMaster-Carr |
| | | Large Gear | | | | | | | | |
| | | 96 tooth | Stock | A 1C 1-N32096 | 1 | \$22.96 | \$11.08 | Steel | | \$11.08 SDP |
| | | Small Gear | | | | | | | | |
| | | 24 Tooth | Stock | A 1C 1-N32024A | 1 | \$8.47 | \$3.77 | Steel | | \$3.77 SDP |
| | | Small Gear | | | | | | | | |
| | | 56 Tooth | Stock | A 1C 1-N32056 | 1 | \$15.05 | \$7.08 | Steel | | \$7.08 SDP |
| | | | | | | | | | | |
| | | | Pinion Gear | Stock | A 1C 9-N321008 | 5 | \$0.50 | \$0.50 | | \$2.50 |
| | Key Stock | Stock | | 3 | \$0.03 | \$0.03 | | \$0.08 McMaster-Carr | | |
| | Small Shaft | 5/16" OD, 1566 Steel | 1497K15 | 1 | \$2.48 | \$2.48 | Steel | \$2.48 McMaster-Carr | | |
| | Large Shaft | 3/8" D, 1566 Steel | 1346K11 | 1 | \$6.62 | \$4.34 | Steel | \$4.34 McMaster-Carr | | |
| User Interface | Seating | Screws | 2" Screws | 91555A111 | 9 | \$0.09 | \$0.09 | Metal | | McMaster-Carr |
| | | Bucket | | | 1 | \$2.69 | \$2.69 | Plastic | | \$2.69 Kaplan |
| | | Dirt and rocks | | | N/A | \$0.00 | \$0.00 | N/A | | Nature |
| | | Recumbant Seat Back | 7/16 in. x 4 ft. x 8 ft. OSB Sheathing | 386081 | 1 | \$0.54 | \$0.54 | Plywood OSB | | Rochester Lumber |
| | | Bucket Insert | 7/16 in. x 4 ft. x 8 ft. OSB Sheathing | 386081 | 2 | \$0.31 | \$0.31 | Plywood OSB | | Rochester Lumber |
| | | 2 x 4 Support | 2" x 4" x 12" | | 1 | \$0.12 | \$0.12 | | | |
| | Adjustable Track | Nuts | 1/4-20 Thread Nylon Wing Nut | | 2 | \$0.08 | \$0.08 | | | \$0.16 US Plastics |
| | | Washers | | | | | | | | |
| | | Wooden 2 x 4 Track | 2"x4"x12' | | 1 | | \$0.16 | | | \$0.16 Rochester Lumber |
| | | Track Pin | Zinc-Plated Eye Bolt | 9489T714 | 2 | \$0.81 | \$0.81 | | | \$1.62 McMaster Carr |
| Manuals | Paper | | | | | | | | | |
| | Printing Service Binding | | | | | | | | | |
| Electrical | Regulator Circuitry | LM78S15CV | 10-100uF | | 1 | | \$0.20 | | \$0.20 | |
| | | LM78S05 | 5k-100kOhm | | 1 | | \$0.19 | | \$0.19 | |
| | | Capacitor | ~100uH | | 2 | | \$0.50 | | | |
| | | Capacitor | | | 2 | | \$0.50 | | | |
| | | Capacitor | | | 1 | | \$0.50 | | \$0.50 | |
| | | LED | | | 1 | | \$0.30 | | | |
| | | LED | | | 1 | | \$0.30 | | \$0.30 | |
| | | Resistor | | | 1 | | \$0.30 | | | |
| | | Resistor | | | 1 | | \$0.30 | | | |
| | | Resistor | | | 1 | | \$0.3 | | | |
| | | Resistor | | | 2 | | \$0.3 | | | |
| | | Resistor | | | 2 | | \$0.3 | | | |
| | | Inductor | | | 1 | | \$0.3 | | | |
| | | Q2N6133 | | | 1 | | \$0.5 | | | |
| | | LM339 | | | 1 | | \$0.17 | | | |
| | | Motor | | | 3 | | \$4.00 | | | |
| | | Fab costs | | | 1 | 50 | \$15.00 | | | |
| | | | | | | | Total: | \$94.04 | | |
| | | | | | | | Power Train | \$53.76 | | |
| | | | | | | | User Interface | \$6.72 | | |

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|--|--|-------------|----------------|-------------|----------|------------|------------|----------|------------|--|--------|
| | | | | | | Electrical | \$33.56 | | | | |