

Scavenger Drive 2.0 Bill of Materials

Part Name: Drive 2.0

Updated 2024-07-28

Aluminum Plates

DXF Files - Cut using Aluminum 5052 .125" Thickness

Ensure you have the newest DXF files: current version v2406

DXF files are produced in inches

Two versions of DXF files exist. Choose the one for the foot shells you're using:

1. ScavDrive2-Alum-v2406.dxf: for aluminum foot shells
2. ScavDrive2-3D-v2407.dxf: for FDM 3D printed (Baddeley Remix) foot shells

Drive Parts

Robot Market Place

2 qty [4 Inch BattleKit Robot Wheel - 19-Tooth Sprocket](#)

Vex Robotics

2 qty [3.25" Omni-Directional Wheel](#)

1 qty [#35 Roller Chain \(10'\)](#)

Amazon

2 qty [AmpFlow E30-150 Brushed Electric Motor, 12V, 24V or 36 VDC, 5600 RPM](#)

2 qty [Jeremywell #35 Roller Chain Sprocket B Type 1/2" Bore 10 Tooth](#)

Home Depot

4 qty [1/2 in. Zinc-Plated Cut Washer](#)

10 qty [3/8 in.-16 x 3-1/2 in. Zinc Plated Hex Bolt](#)

4 qty [3/8 in.-16 x 1-3/4 in. Zinc Plated Hex Bolt \(1-1/2" will also work\)](#)

2 qty [3/8 in.-16 Zinc Plated Nylon Lock Nut \(10-Pack\)](#)

1 qty [3/8 in. Stainless Steel Flat Washer \(3-Pack\)](#)

2 qty [#10-24 machine screws 3/4" length \(4-Pack\)](#)

AluminumSpacer.Com

Note : the website is wonky sometimes it's best to check out as a guest or if you have issues contact Brenda.

[Convert inch to mm](#)

4 qty [Aluminum Spacer 1/2 OD x .382 ID x 1-1/2 Long](#)

6 qty [Aluminum Spacer 1/2 OD x .382 ID x 1.000 Long](#)

4 qty [Aluminum Spacer 1/2 OD x .382 ID x 7/16 Long](#)

6 qty [Aluminum Spacer 1/2 OD x .382 ID x 13/16 Long](#)

4 qty [Aluminum Spacer 1/2 OD x .382 ID x 11/16 Long](#)

4 qty [Aluminum Spacer 1/2 OD x .382 ID x 1-3/16 Long](#)

4 qty [Aluminum Spacer 3/4 OD x .509 ID x 7/16 Long](#)

2 qty [Aluminum Spacer 3/4 OD x .509 ID x 7/32 Long](#)

McMaster-Carr [alternate place to Buy Spacers](#)

Center Foot Parts

Vex Robotics

2 qty [1.125" Bearing Pilot Plastic VersaHub \(1/4" Wide, w/ Plate Sprocket Mount\)](#)

4 qty [4" Omni-Directional Wheel v2](#)

4 qty [0.500" ID x 1.125" OD x 0.313" WD \(Flanged Bearing\) • \\$2.99 SKU#: 217-2731](#)

Home Depot

5 qty [3/8 in.-16 x 4 in. Zinc Plated Hex Bolt](#)

5 qty 3/8 in. nylon lock nuts

AluminumSpacer.com

4 qty [Aluminum Spacer 1/2 OD x .382 ID x 3/4 Long](#)

2 qty [Aluminum Spacer 1/2 OD x .382 ID x 1-3/8 Long](#)

2 qty [Aluminum Spacer 1/2 OD x .382 ID x 1/8 Long](#)

4 qty [Aluminum Spacer 1/2 OD x .382 ID x 1-1/2 Long](#)

CHANGE LOG

2024-07-28

Added correct quantity of bolts, added small machine screws for motor mount

2024-07-07

Removed excess Vex hub, not needed. Updated quantities required of some hardware. Added version numbers to DXF files.