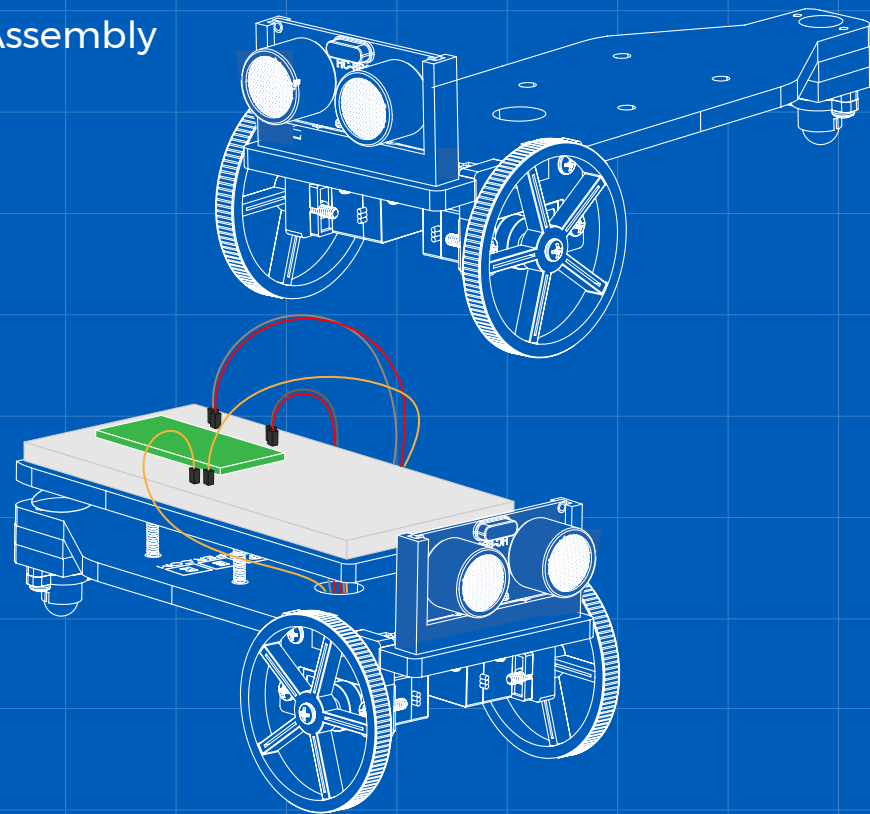


Mission:

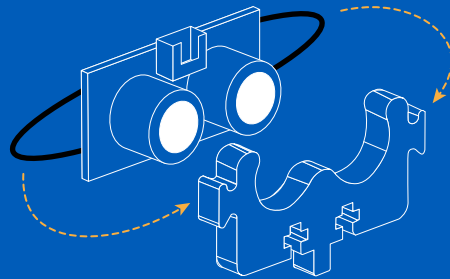
Piper Make Robotic Rover

SIDE A Assembly

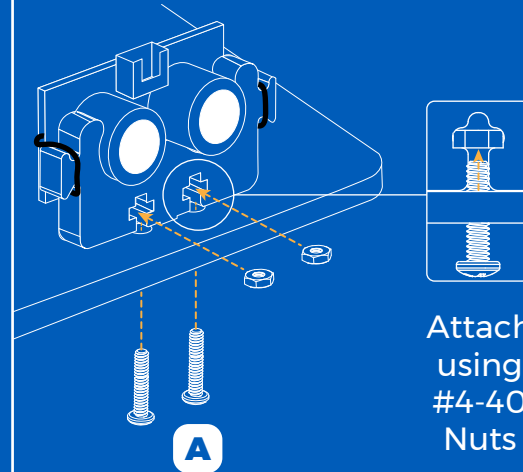
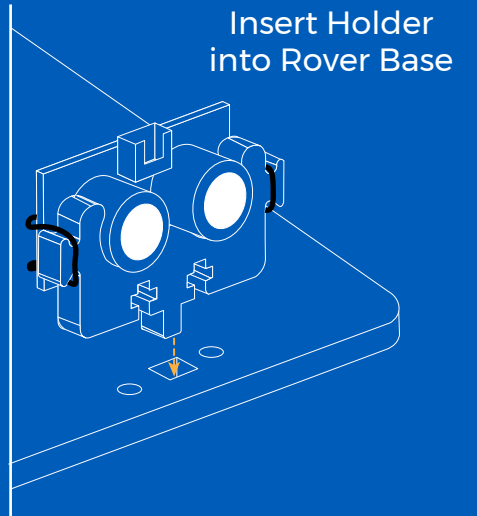


1 ● ○ ○ ○ ○ ○

Use O-Ring to attach Range Finder to Holder



Insert Holder into Rover Base



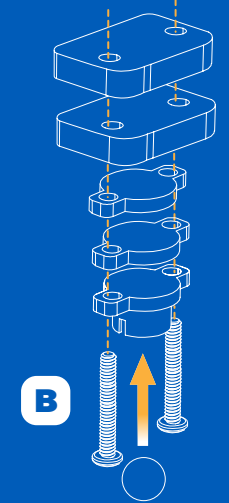
Attach using #4-40 Nuts

2 ● ● ○ ○ ○ ○

Remove Ball from Holder

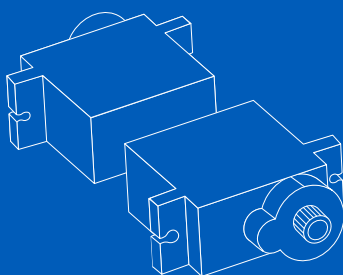
Attach screws as shown

Reinsert Ball into Holder



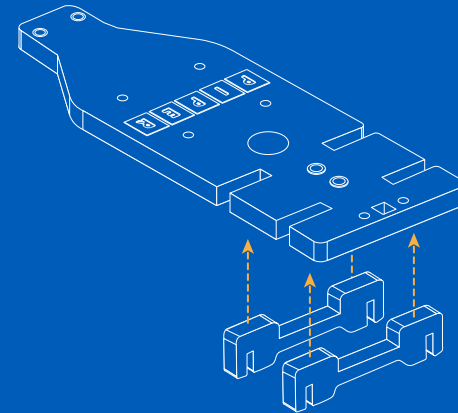
make.playpiper.com →

Head to Piper Make to calibrate Servo motors with Step Two of your mission



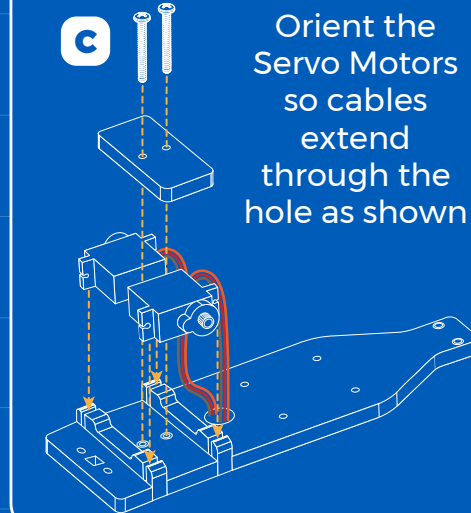
3 ● ● ● ○ ○ ○

Insert Servo Spacers into Base notches



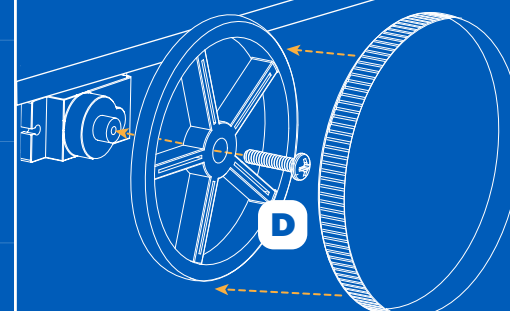
4 ● ● ● ● ○ ○

Orient the Servo Motors so cables extend through the hole as shown



5 ● ● ● ● ● ●

Stretch the Wheels over the Rims

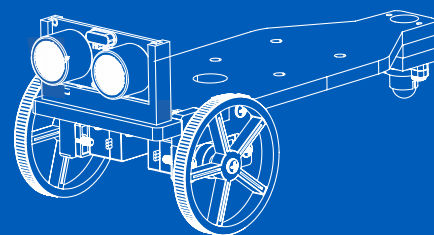


Insert the Servo Motor shaft into the ridged hole of the Wheel

INVENTORY

- 1 Base
- 2 Servo Spacers
- 1 Servo Holder
- 2 #1 Spacers
- 2 #2 Spacers
- 2 FS90R Servo Motors
- 2 Wheels and Rims
- 2 Gummy Foot
- 1 Range Finder Holder
- 1 Ball and Holder
- 6 #4-40 Screws (A)
- 2 #2-56 Screws (B)
- 2 #4-40 Screws (C)
- 2 Small Screws (D)
- 2 #4-40 Nuts
- 1 O-Ring

ASSEMBLY COMPLETE!

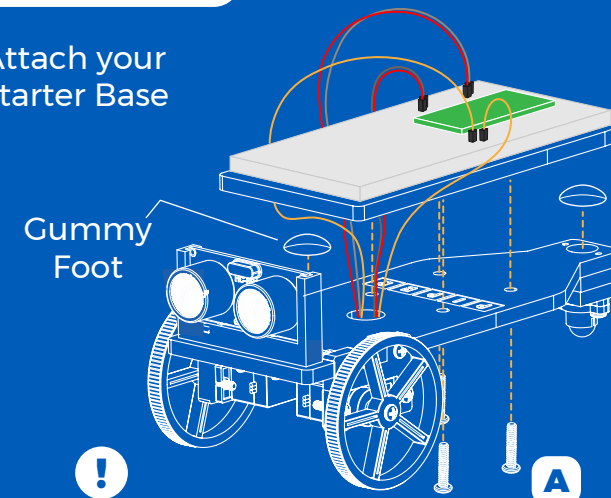


Head to Piper Make to continue your mission

make.playpiper.com →

OPTIONAL

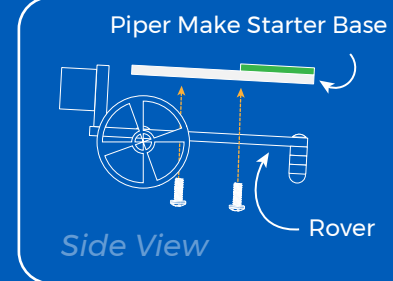
Attach your Starter Base



Wiring instructions in Piper Make tutorials

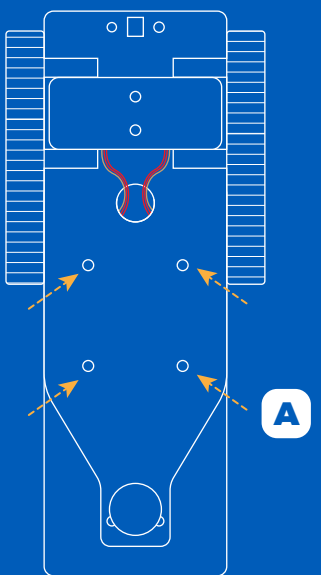
Gummy Foot

Flip Over!



Side View

Rover

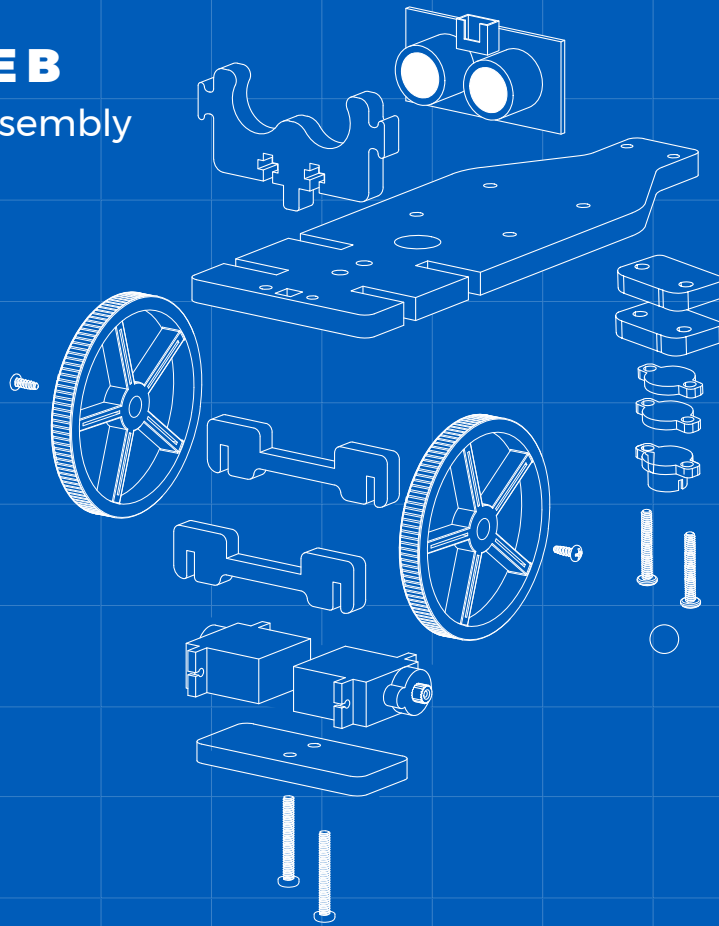


Bottom View

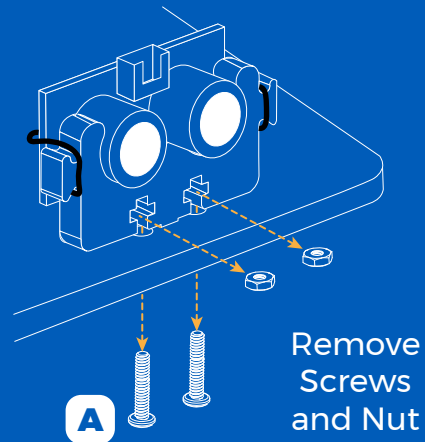
Mission:

Piper Make Robotic Rover

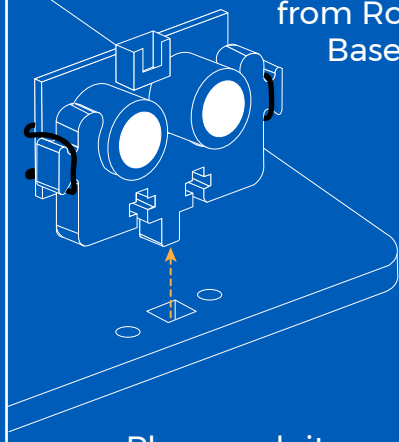
SIDE B Disassembly



1 ● ○ ○ ○ ○

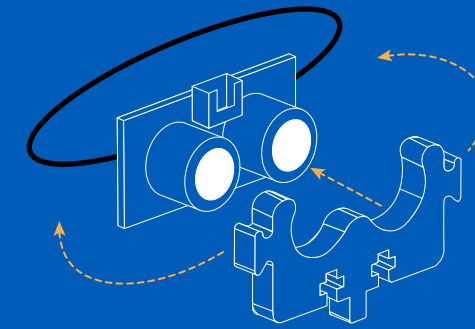


Detach Holder from Rover Base

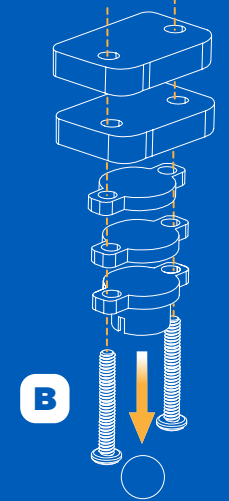


Place each item on its spot on the Components sheet

Remove O-Ring to detach Range Finder from Holder



2 ● ● ○ ○ ○



Remove Ball from Holder

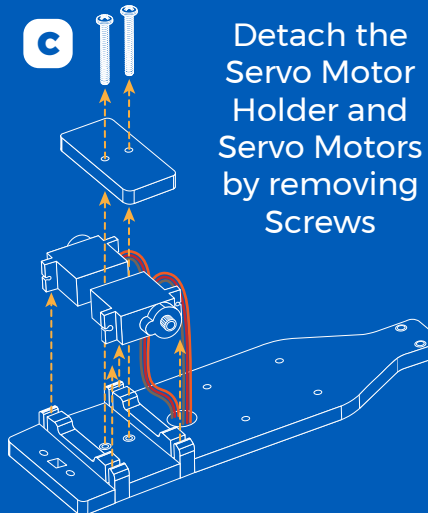
Remove Screws

Reinsert Ball into Holder for storage

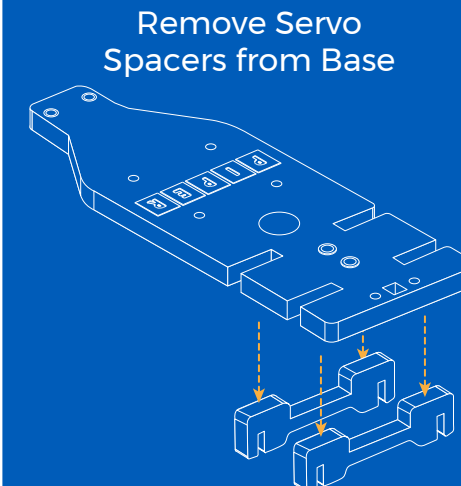
3 ● ● ● ○ ○



4 ● ● ● ● ○



5 ● ● ● ● ●



DISASSEMBLY COMPLETE!

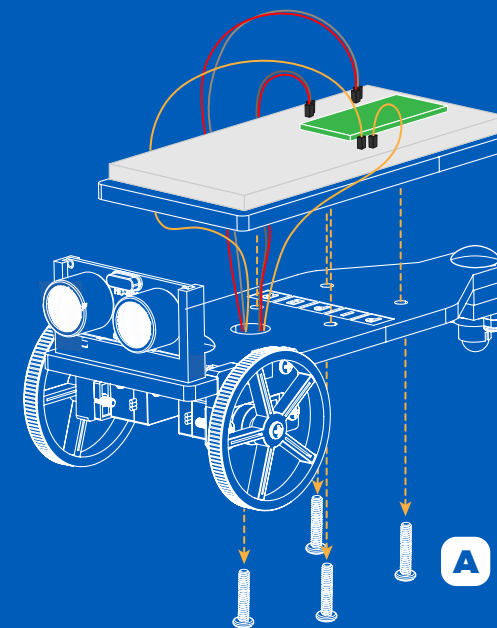
If not already done, place each piece on its spot on the Components sheet

INVENTORY

- 1 Base
- 2 Servo Spacers
- 1 Servo Holder
- 2 #1 Spacers
- 2 #2 Spacers
- 2 FS90R Servo Motors
- 2 Wheels and Rims
- 2 Gummy Foot
- 1 Range Finder Holder
- 1 Ball and Holder
- 6 #4-40 Screws (A)
- 2 #2-56 Screws (B)
- 2 #4-40 Screws (C)
- 2 Small Screws (D)
- 2 #4-40 Nuts
- 1 O-Ring

OPTIONAL

Detach your Starter Base



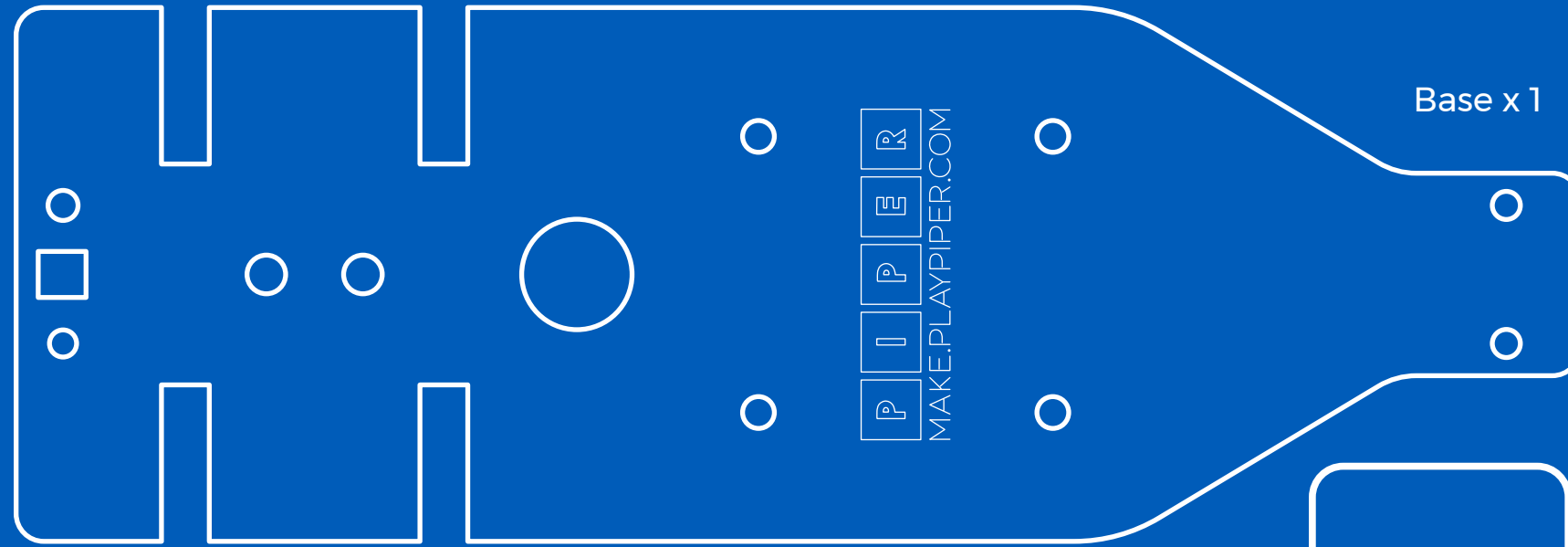
Remove Screws to detach Starter Base

Mission:

Piper Make
Robotic Rover

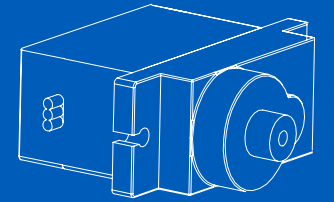
Components Sheet

Gather and organize
your supplies



Base x 1

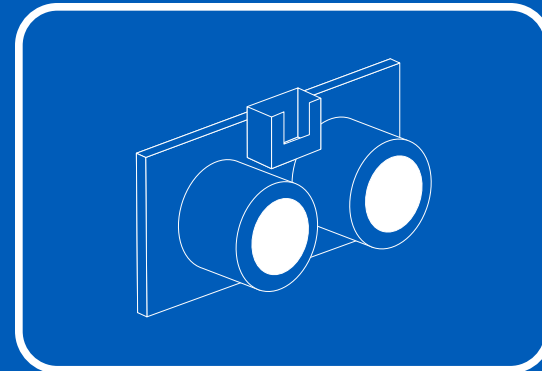
Continuous Servo Motors



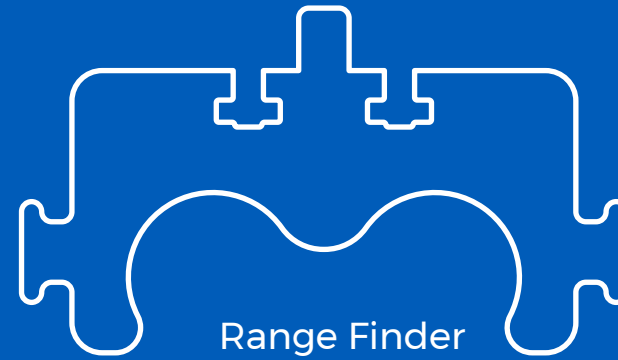
FS90R Servo Motor x 2



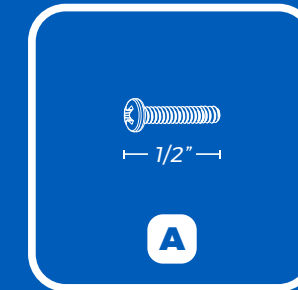
Servo Spacer x 2



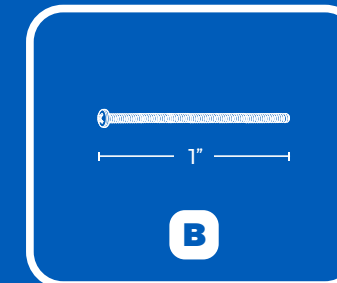
Ultrasonic Range Finder x 1



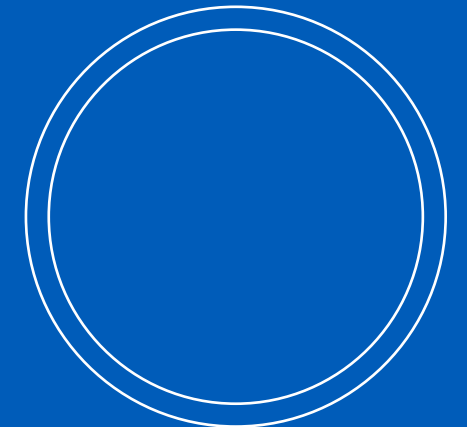
Range Finder
Holder x 1



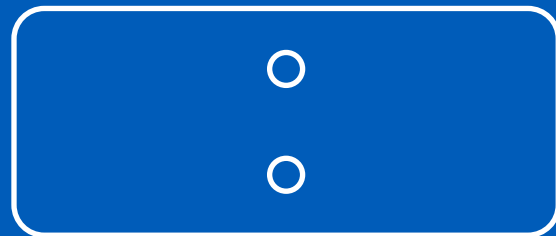
#4-40 Screw x 6



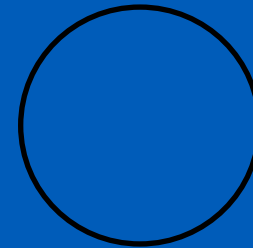
#2-56 Screw x 2



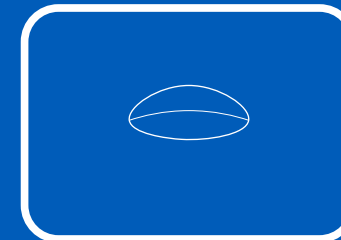
Wheel x 2



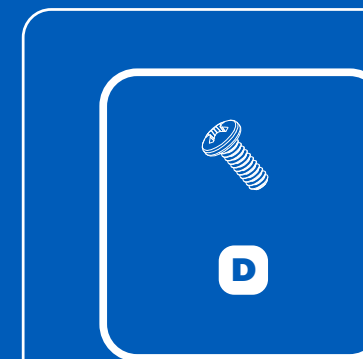
Servo Holder x 1



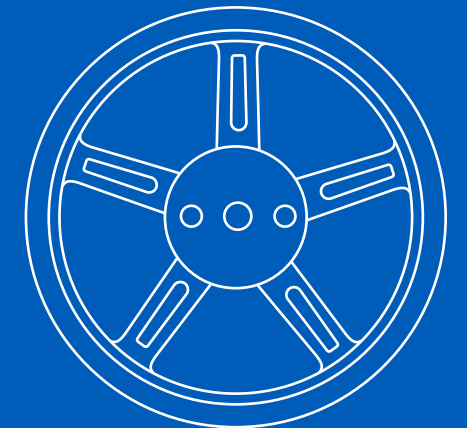
O-Ring x 1



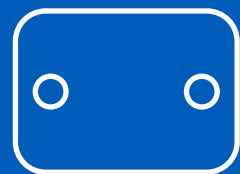
Gummy Foot x 2



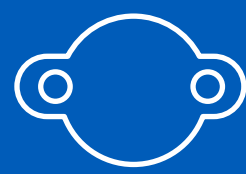
Small Screws x 2



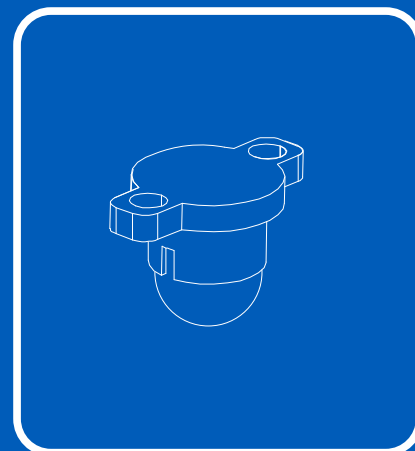
Wheel Rim x 2



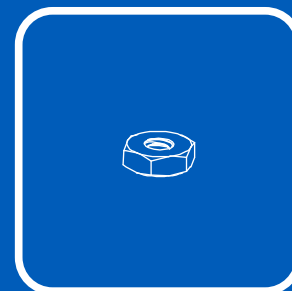
Spacer #1 x 2



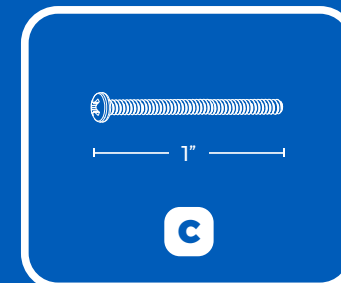
Spacer #2 x 2



Ball and Holder x 1



#4-40 Nut x 2



#4-40 Screw x 2