

Hockey Bot V1

Pre-soldered

[See "Magneto Bot" Step 5 Instructions to solder drive motors](#)

All parts included

Requires:

2X AA batteries

1X 9V battery



Needed to Assemble

- 9V Battery X1 (For robot) Can be upgraded to **Rechargeable Nicad** or **2S Lipo**
- AA Batteries X2 (For remote)
- Allen Wrench 3/32"
- Pliers
- Something sharp to strip wires

Step 1: Clean 3D print supports

What to do in step 1:

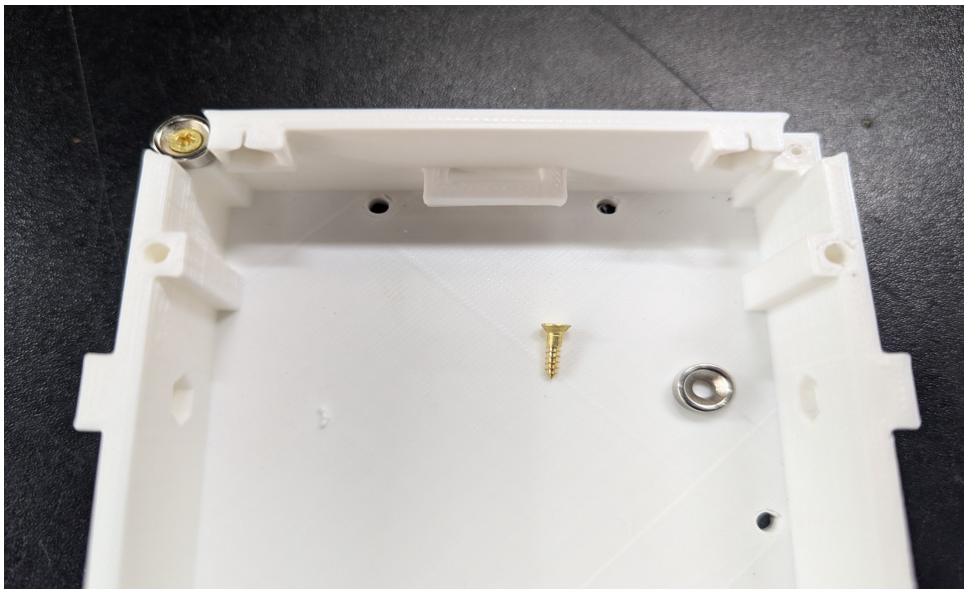
1. Clean leftover support material with screwdriver or pointy tool



Step 2: Attach N or S magnets to chassis

What to do in step 2:

1. Screw all magnets of the polarity that you chose, with the countersunk side of the magnet facing the screw head, to the chassis as shown in pictures below. You might need to clean out the hole to get the magnet to fit correctly. Don't over tighten the screws as they will strip. A nice light snug tightness is desired.



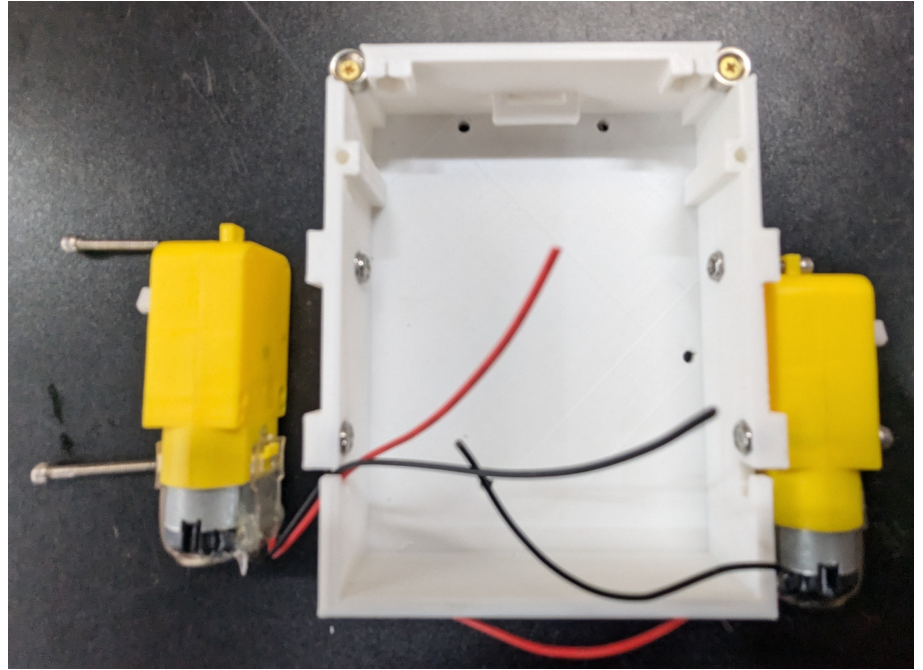
Step 3: Insert nuts into chassis & Install drive motors

What to do in step 3:

1. Use one of the longer screws to press-fit the 4 nylon nuts into the chassis
2. Use the X2 4-40x3/4" screws for the front of motor & X2 4-40x1" screws for back of motor

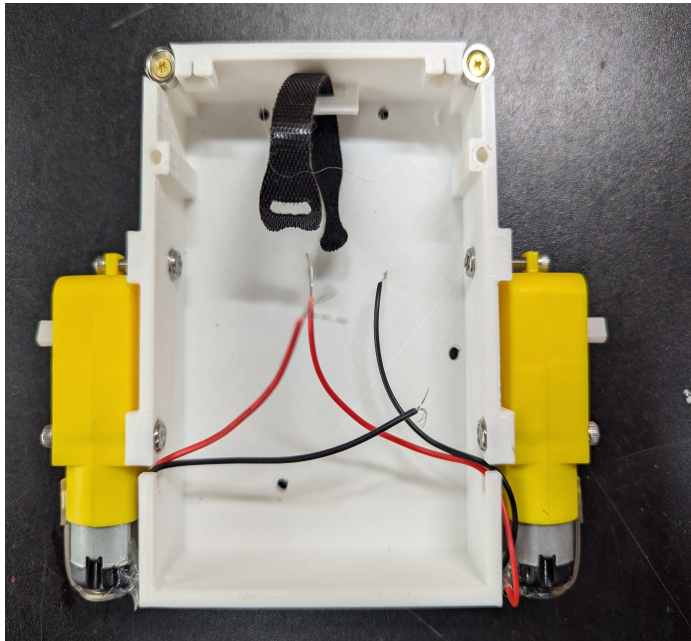


1



2

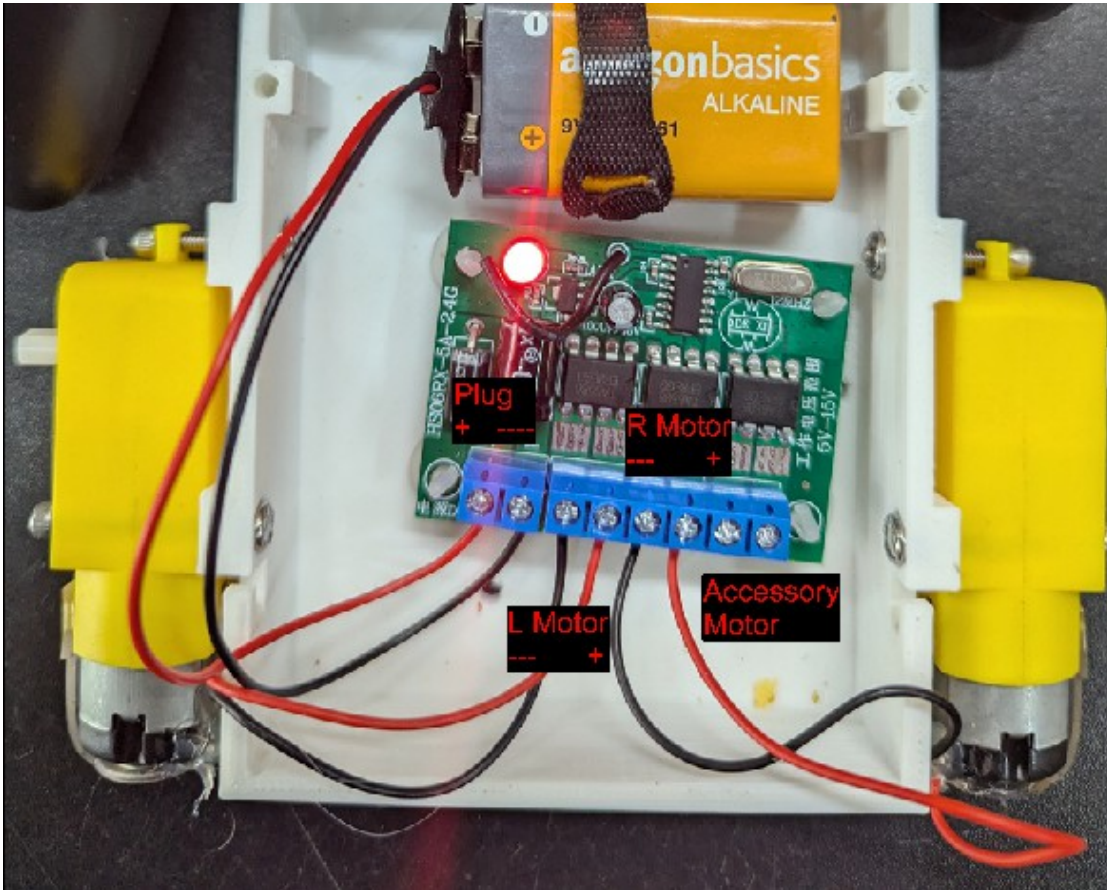
3. Install velcro strap to hold 9v battery to front of robot for proper weight distribution.



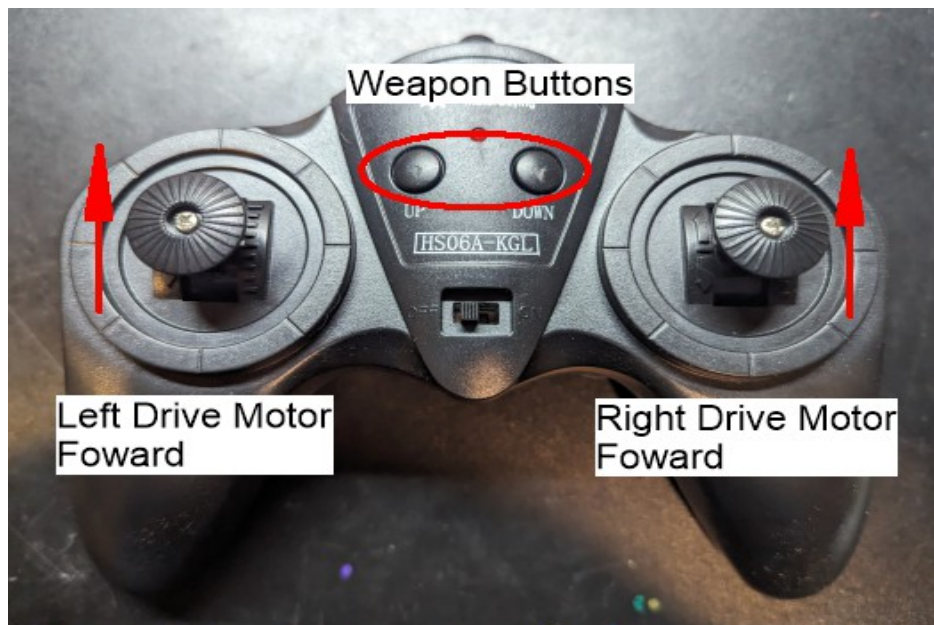
Step 4: Install electronics

What to do in step 4:

1. Install drive motor wires and battery plug into receiver as shown using the small screwdriver provided



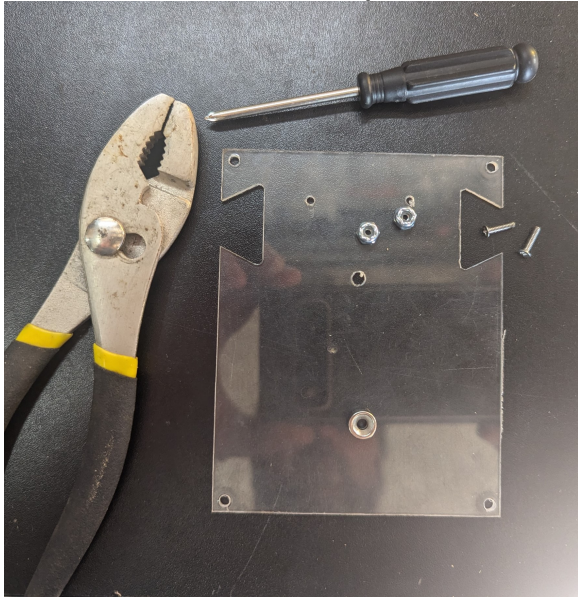
3. Test drive motors with remote as shown



Step 6: Lid magnets

What to do in step 6:

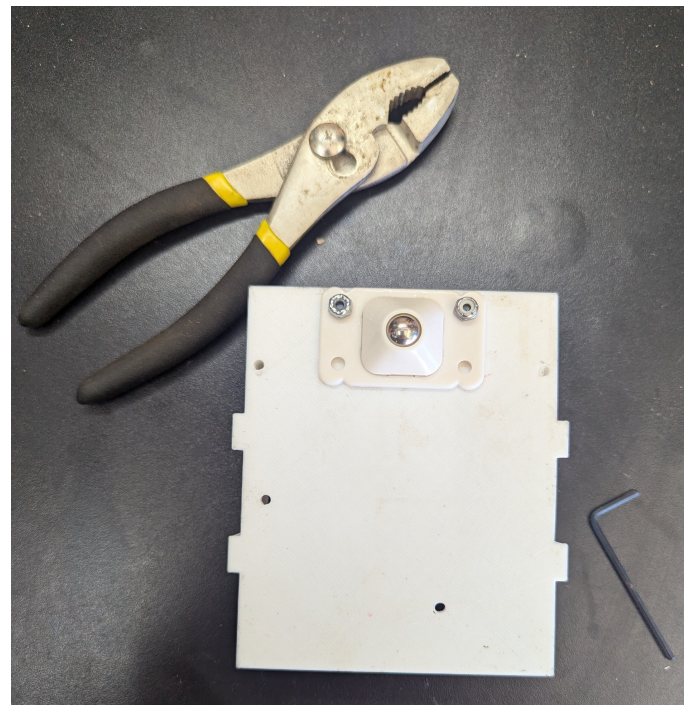
1. Use the opposite polarity magnets with 2x 2-56 screws and nylon nuts to attach magnets to the lid. Make sure the countersunk of magnet is matched to the screw head
2. Put the lid on to keep electronics in bot for next step



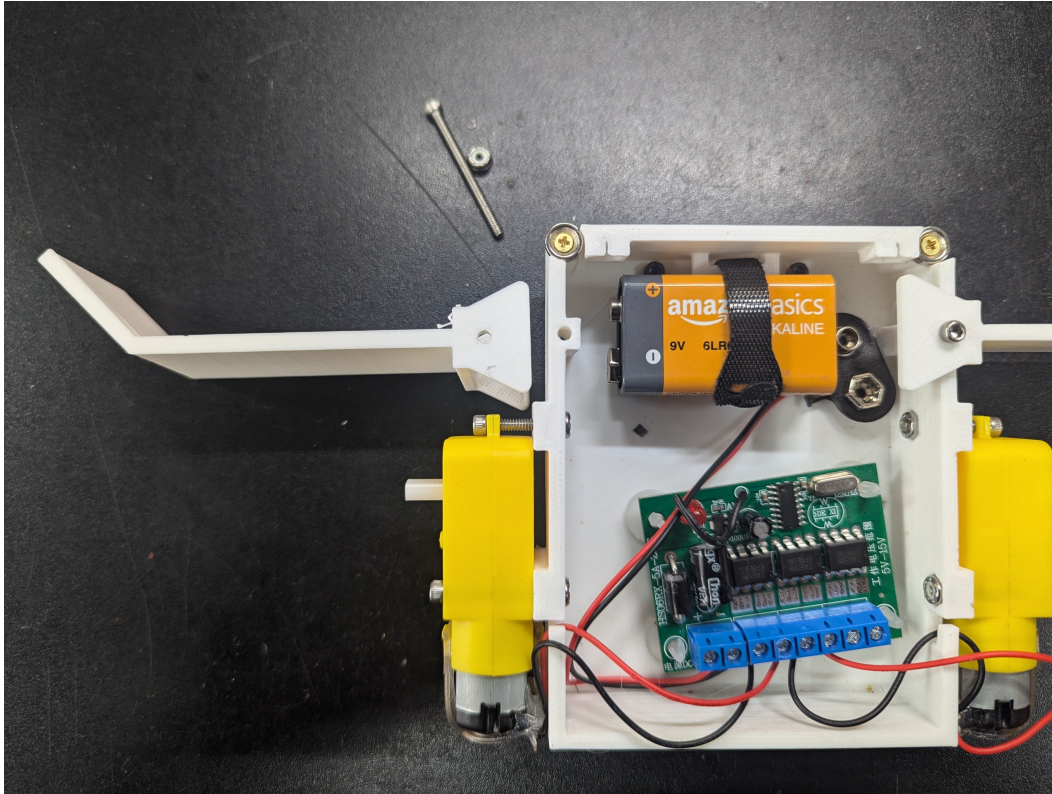
Step 7: Install ball caster & hockey sticks

What to do in step 7:

1. Use the 2X 4-40 x 3/8 screws and nylon nuts to secure ball caster to underside of chassis



2. Use the X2 4-40x1-1/2" screws and nylon nuts to mount hockey sticks



Step 8: Install wheels and have fun

What to do in step 8:

1. Push wheels onto drive motors. Yes they touch the hockey stick to add support to the hockey sticks when hitting your opponent hard.

