



⬅ Back to my courses

RC Excavator - How To

69% COMPLETE

What We're Building ∨

Sourcing Parts ∨

Soldering ^

Soldering H-Bridges &
Buck Converter

✓ Soldering Components
to PCB

✓ Soldering Wires to N20
Motors

Uploading Code to
ESP32 ∨

3D Printing ∨

Soldering H-Bridges & Buck Converter

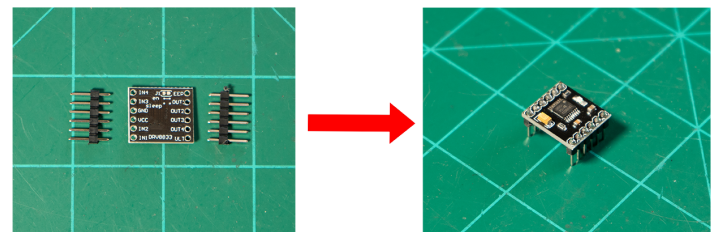
Tools Required

- Soldering Iron
- Small Wire Cutters

H-Bridge Steps

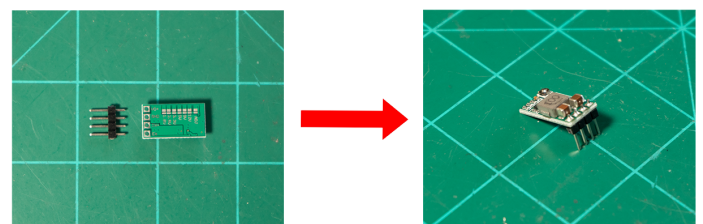
- 1.) Insert the 2 rows of 6pin male headers from the bottom and solder(repeat 4 times).

X4



Buck Converter Steps

- 1.) Solder on a 4pin Male header.



**Assembling Lower Body
& Track Support** ✓

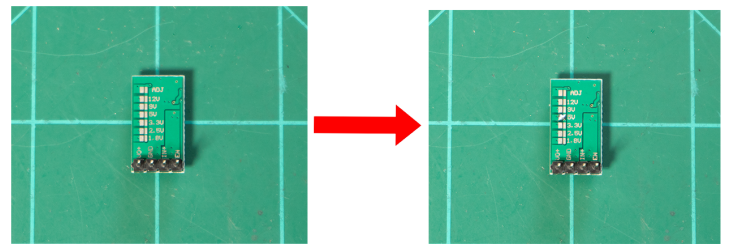
Arm Assembly ✓

**Cab Lights and Rear
Cover** ✓

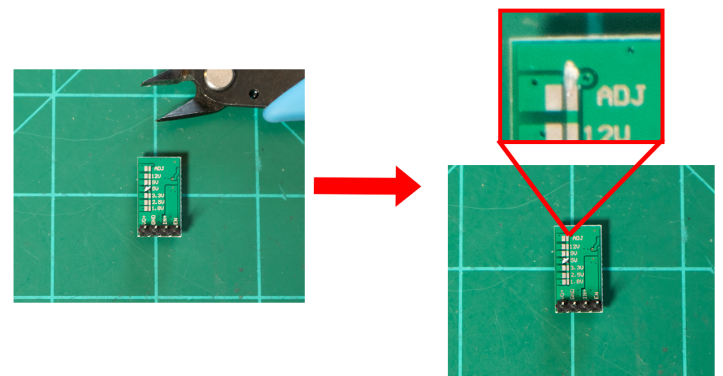
Test Drive ✓

Attachments/Upgrades ✓

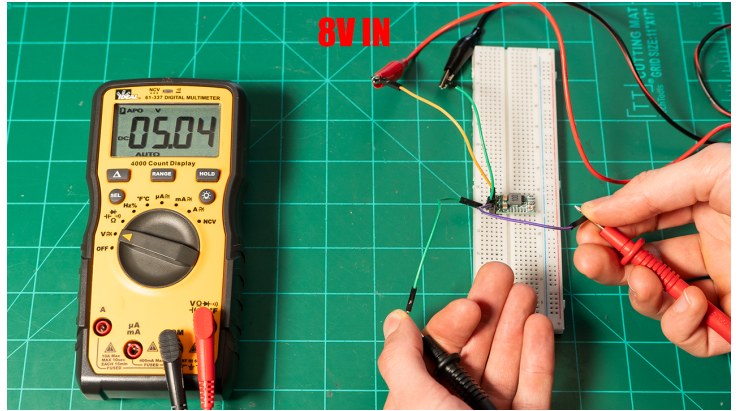
2.) Solder the 2 5v Pads together.



3.) Using a small pair of wire cutters cut the trace just above "ADJ". Make sure its deep enough and removes the top layer of copper.



4.) Using a breadboard, multimeter and DC power supply input 8v into the "IN+" pin, "GND" to the GND on your power supply and multimeter, "VO+" to the positive lead on your multimeter. Measure the voltage output of the buck converter. It should read 5v, if it doesn't and your solders look good try cutting the trace deeper as it could still be partially connected.



Potential Problems

1. Due to the wide range of quality found in esp32 dev boards It has come to my attention that occasionally they will not properly pair to ps3 controllers when powered off 5v. I have not personally encountered this but if your esp32 will only pair to the ps3 controller when its plugged in via USB try altering your buck converter to supply 6v instead of 5v.
2. If none of your motors work but the LEDS do try soldering the J2 pads together on the H-Bridges.

COMPLETE AND CONTINUE

Country/region

Language

USD \$ | United States

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