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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 Wires to N20 Motors

### Tools Required

- Soldering Iron
- Wire Strippers
- Small Wire Cutters

### STEPS

1. Cut the following lengths of wire using 22AWG wire(Note: If you really want to get fancy use two different colors so you can match one color to the positive terminal of the N20 Motor)
  - a. Cut 2 pairs of 40cm wires
  - b. Cut 2 pairs of 20cm wire
  - c. Cut 1 pair of 10cm wire
  - d. Cut 2 pairs of 15cm wire
2. Using wire strippers strip one end back about 3mm and the other end back 8mm.
3. Solder on the stripped 3mm side of the corresponding wire lengths to the N20 motors as ordered below(Note: coating both ends in some flux can really

**Assembling Lower Body  
& Track Support** ✓

**Arm Assembly** ✓

**Cab Lights and Rear  
Cover** ✓

**Test Drive** ✓

**Attachments/Upgrades** ✓

**make your life easier especially  
if you haven't soldered much)**

- a. Solder 2 Pairs of 20cm wires onto 2 100rpm N20 Motors.
- b. Solder 1 Pair of 15cm wires onto 1 100rpm N20 Motor.
- c. Solder 1 Pair of 10cm wires onto 1 1000rpm Threaded Shaft N20 Motor.
- d. Solder 2 Pairs of 40cm Wires onto 1 1000rpm Threaded Shaft N20 Motor.
- e. Solder 1 Pair of 15cm wires onto 1 1000rpm Threaded Shaft N20 Motor.

**1. I recommend securing the wires directly to the standard N20 motors with 9mm shafts using some hot glue, on the threaded N20 motors I hot glue the wires into place after placing them in the 3D printed motor holders.**

COMPLETE AND CONTINUE

USA & United States

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