

[← Back to my courses](#)

## RC Excavator - How To

69% COMPLETE



Soldering



Uploading Code to  
ESP32



3D Printing



Assembling Lower Body  
& Track Support



Arm Assembly



Cab Lights and Rear  
Cover



Test Drive



## Push Blade Attachment

### Required Parts

1. x1 1000RPM 12v Threaded Shaft  
m4 55mm N20 Motor: Aliexpress -

5. 1x 3D Printed "Motor Holder  
Lock"

6. 2x 3D Printed "Push Blade  
Chassis Mount"

7. 1x 3D Printed "Push Blade Push  
Rod"

8. 1x 3D Printed "Push Blade"

IF YOU DOWNLOADED YOUR MODEL  
BEFORE 5/11/2024 You'll have to also  
re-download/re-print the lower body  
which now has cutouts for the push  
blade.

### STEPS

- Attachments can be downloaded  
on printable's under the "Files"  
section in their corresponding  
folders.








## Attachments/Upgrades

### ☐ Electrical Slip Ring Upgrade

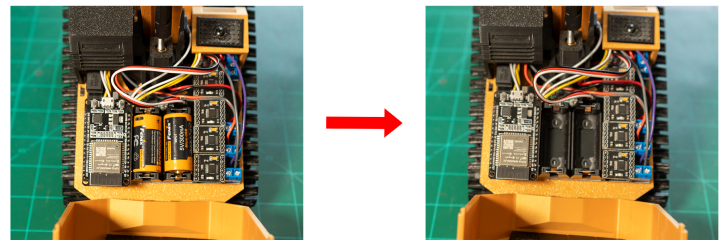
#### Push Blade Attachment

### ☐ Rotating Claw

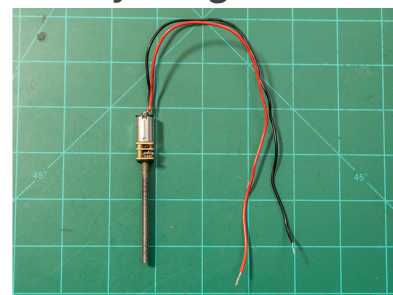
### ☐ Dipper Lights Upgrade

Details	Files	Makes & Comments	Remixes	Related models	Collections	User print files
	10	51	2		101	6
Model files						
 Group Prints		5 files				
 Individual STL		35 files				
 Individual STEP		35 files				
 Push Blade Attachment		6 files				
 Rotating Claw Attachment		8 files				
 Electrical Slip Ring Upgrade		2 files				
 Boom LED Upgrade		1 file				

#### 1.) Remove the batteries.

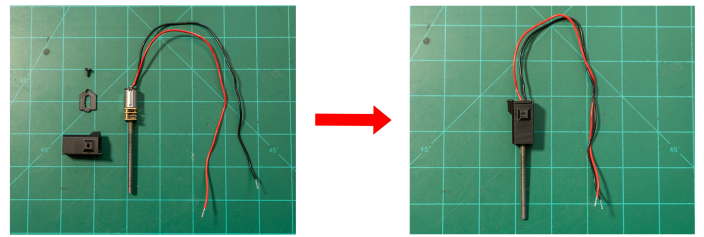


2.) Start by soldering on a set of 22awg wires measuring 30cm in length to the threaded N20 motor (unless you're using the electrical slip ring then use the wires coming off of that but wait until everything is attached).

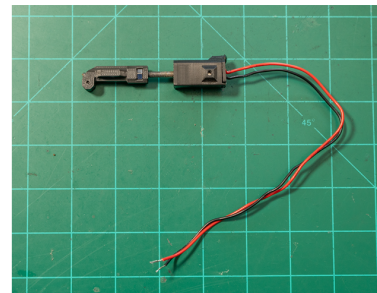
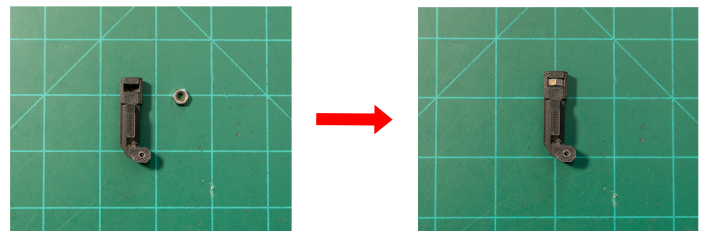


3.) Insert the N20 motor into the 3D printed "Motor Holder Push Blade" piece and secure in place using a 3D printed "Motor Holder Lock" and 2.6x6mm screw. (Tip: Fill in the back of the "motor holder lock" gap with hot glue to relieve tension on the wires and

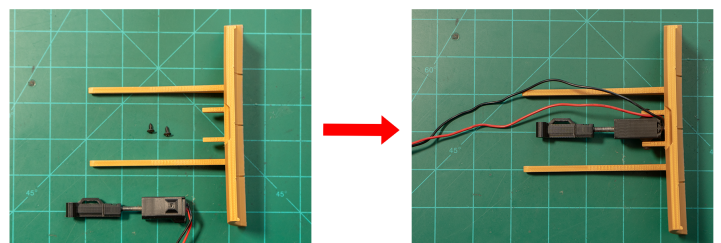
**prevent them from breaking apart in the future.)**



**4.) Press a m4 nut into the "Push Blade Push Rod" and thread it onto the N20 motor with the nut side facing towards the motor.**

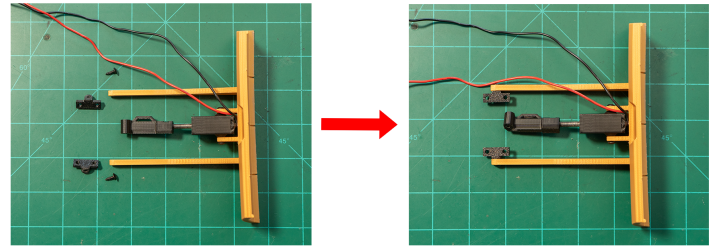


**5.) Attach the N20 motor assembly to the 3D printed "Push Blade" using 2 2.6x6mm screws, place so the motor holder side with the 2.6x6mm screw faces down.**

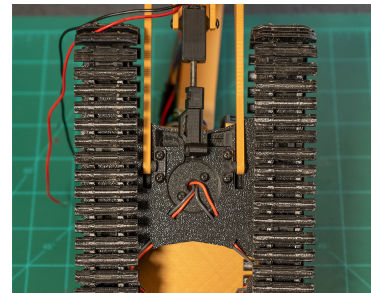


**6.) Take 2 3D printed "Push Blade Chassis Mount" pieces and secure them using 2 2.6x8mm screws on the**

**ends/inside of the push blade arms.**

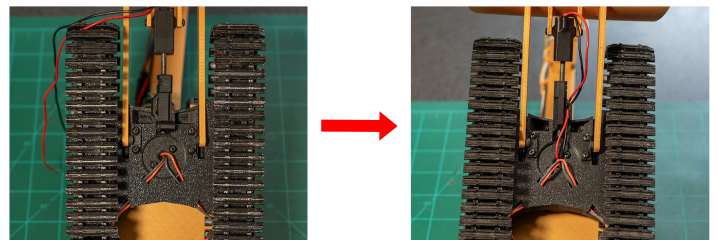


**7.) Lock the "Push Blade Chassis Mount" pieces to the lower frame using 4 2.6x6mm screws.**



**8.) Using 2 2.6x6mm screws attach the "Push Blade Push Rod" to the lower frame. You'll have to angle your screw driver aggressively into the provided cutout to make contact with the screw. (Refer to the last picture)**

**9.) Route the wires from the N20 motor through the cutout on the push rod and then up the main shaft and into either the "AUX-ATCH" or "Thumb" terminal block depending on if you have the claw installed and what controller interface you prefer.**



**10.) If using the "AUX-ATCH" terminal block then the controls are left and right on the D-Pad for blade**



**movement. If using the "Thumb" terminal block its up and down on the D-Pad.**

**Make sure to leave a slack in the wire on the N20 motor side so the push blade can freely move up and down.**

COMPLETE AND CONTINUE

[Country/region](#)

[USPS Tracking Number](#)

© 2024 ProfessorBoots Powered by Shopify — [Refund policy](#) — [Privacy policy](#)

[Terms of service](#) — [Shipping policy](#) — [Contact us](#) — [Help](#)