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RC Excavator - How To

69% COMPLETE

What We're Building	✓
Sourcing Parts	✓
Soldering	✓
Uploading Code to ESP32	✓
3D Printing	✓
Assembling Lower Body & Track Support	✓
Arm Assembly	✓
Cab Lights and Rear Cover	✓
Test Drive	✓

Electrical Slip Ring Upgrade

Parts Required

- 1. 1x 6 Wire Electrical Slip Ring
<https://amzn.to/3wraGRE>
- 2. 1x 3D Printed "Lower Body with Slip Ring"
- 3. 1x 3D Printed "Swivel Lock with Slip Ring"
- 4. 1x 2.6x8mm Screws + the 2 we'll be removing from the old setup.

STEPS

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

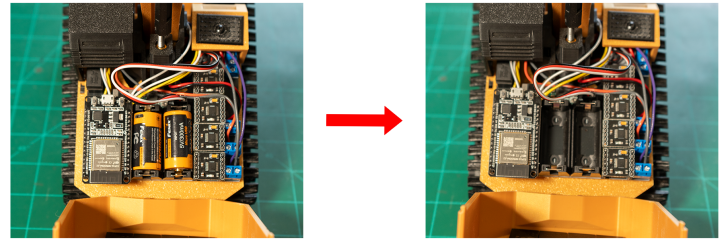
Details	Files 10	Makes & Comments 50	Remixes 2	Related models	Collections 138	User print files 9
Model files						
Group Prints						
5 files						
Individual STL						
35 files						
Individual STEP						
35 files						
Push Blade Attachment						
6 files						
Rotating Claw Attachment						
8 files						
Electrical Slip Ring Upgrade						
2 files						
Boom LED Upgrade						
1 file						

Attachments/Upgrades ^

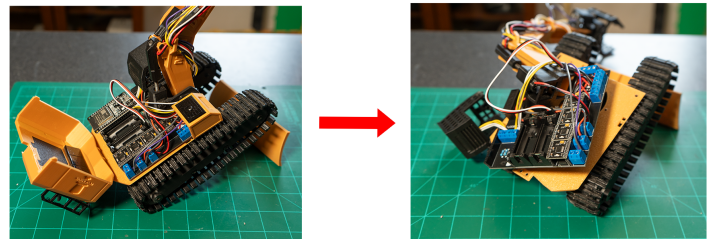
Electrical Slip Ring Upgrade

- ☐ Push Blade Attachment
- ☐ Rotating Claw
- ☐ Dipper Lights Upgrade

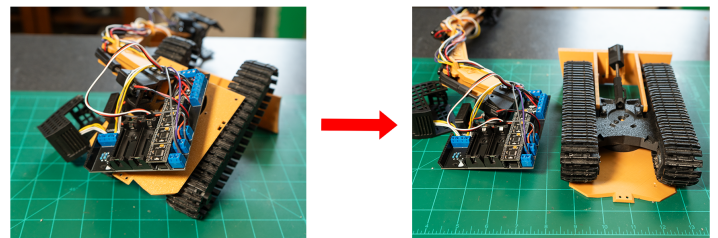
1.) Remove the batteries.



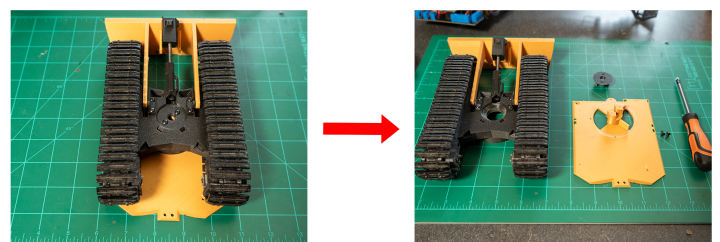
2.) Remove the step, then unfasten the screws holding the Profboots PCB, main boom holder, upper body and cab to the lower body.



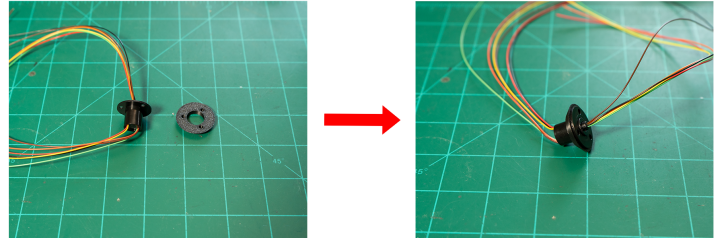
3.) Disconnect the L-MTR and R-MTR(Push blade if installed) wires from their respective terminal blocks and unsolder them from the motor terminals. Extract the wires completely



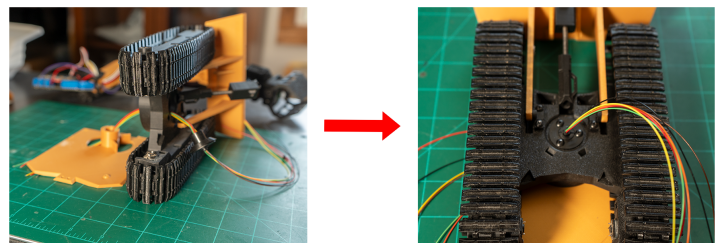
4.) Unscrew the 2 2.6x8mm screws holding the swivel lock to the lower body. Remove the swivel lock and lower body.



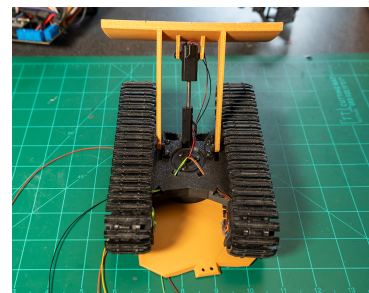
5.) Insert the electrical slip ring into the 3D printed "Swivel Lock with Slip Ring" piece, and feed the wires up through the lower frame first then the new lower body.



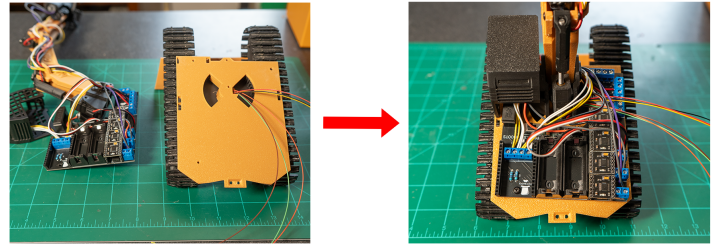
6.) Secure the swivel lock to the lower body with 3x 2.6x8mm screws.



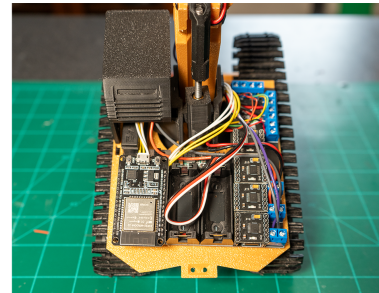
7.) Route wires to each respective motor and solder in place. If using the push blade remember to have some extra slack as the overall distance changes as it moves. I recommend using a bit of hot glue to secure the wires to the motors/motor holders for strain relief on the solder joints.



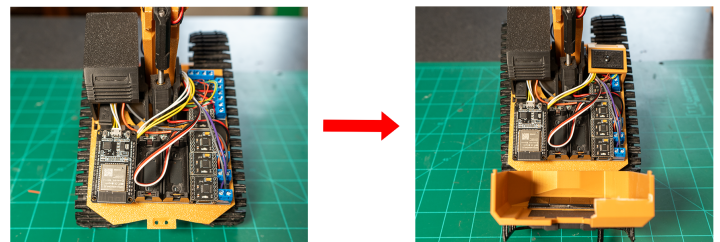
8.) Re-attach the Profboots PCB, main boom holder, and cab to the lower body.



9.) Trim and secure the new wires coming from the slip ring into the corresponding terminal blocks using the wire colors to match which motor goes where.



10.) Re-attach the step and upper body.



COMPLETE AND CONTINUE

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