

Ground Crawler Skeleton

Tools Needed:

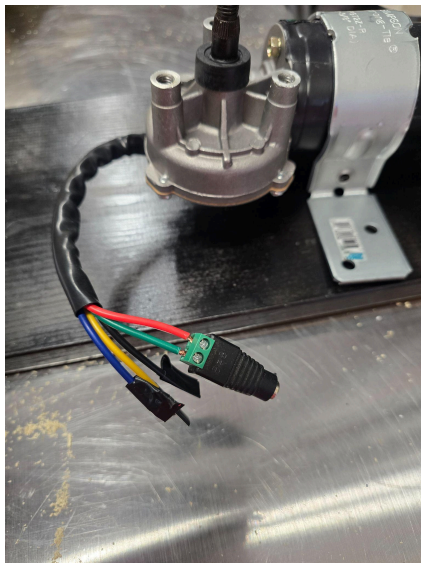
- 5/64" drill bit (or close to it)
- 5/16" drill bit (or close to it)
- Power Drill
- No. 00 small screwdriver
- 7/16 open end wrench
- Diagonal cutting pliers
- 7mm Bolt driver

Instructions:

1. Connect the two boards with the mending brackets, center the board on the other in a T fashion



2. Connect the 5.5 x 2.1mm adapter to the Motor



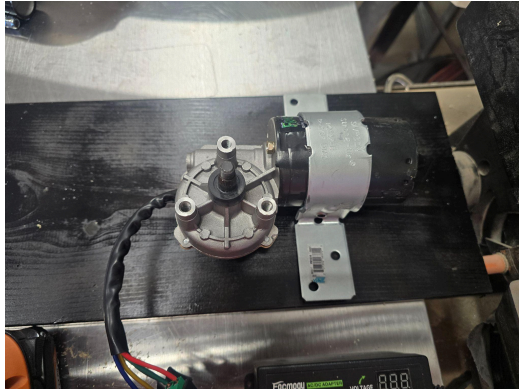
3. Hook up motor to speed control/power supply



4. Inside the motor box, get the arm and nut and put on the motor itself



5. Place the motor inside the fence bracket and position at the bottom of the board (don't fasten to the board just yet)



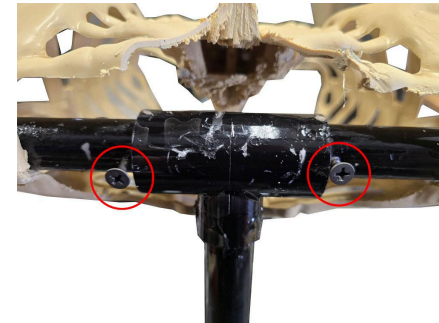
6. Slide the 9" x 1/2" PVC pipe inside the 3/4" T Fitting
7. Insert the 6" x 1/2" PVC pipe into the 1/2" end of the T-Fitting
8. Place the 9" PVC under the clavicle



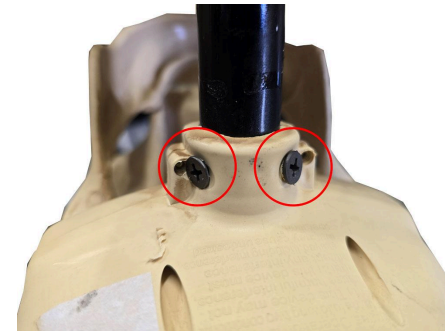
9. Drill a hole with the 5/64" drill bit on either side of the skeleton from the clavicle to the PVC
10. Screw 2 drywall screws into those holes to secure the 9" PVC pipe to the skeleton



11. Center the 3/4" x 1/2" x 3/4" T-Fitting on the 9" PVC pipe
12. With the 5/64" bit, drill a hole on either side of the T-Fitting on the 9" PVC pipe, screw two 1" drywall screws into each hole just a little bit, the screws will keep the T-Fitting centered, the T-Fitting needs to spin freely so don't drill the holes to close



13. With the 5/64" bit, drill 2 holes on either side of the base of the skull into the PVC, screw in 2 1" drywall screws



14. With the 5/64" bit, drill 2 holes on either side of the T-fitting where the 6" x 1/2" PVC fits into the T-Fitting, screw in 2 1" drywall screws

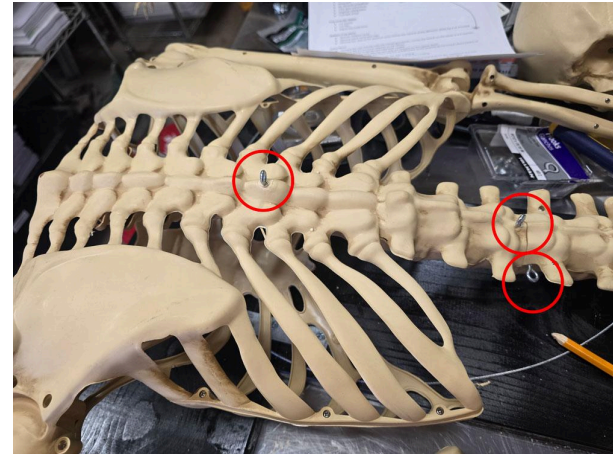
15. On the skull, remove one of the screws that secures battery cover, put an eyelet hook into that screw hole, if your skull does not have that, drill a hole with the 5/64" bit for the eyelet hook



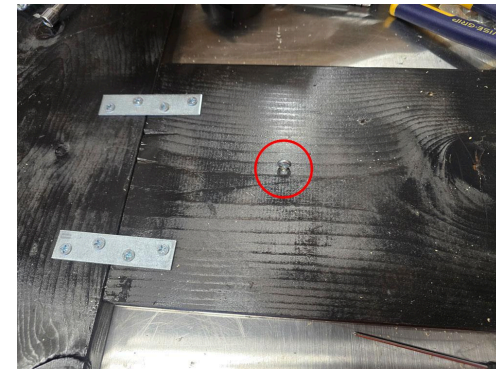
16. With the 5/64" bit, drill a hole in the back of the 6" PVC pipe that is now the "neck" of the skeleton, screw in an eyelet hook

17. Drill about 6" down along the spine of the skeleton, then another hole about 6" from that hole, then drill another hole on the side of the spine as seen in the picture

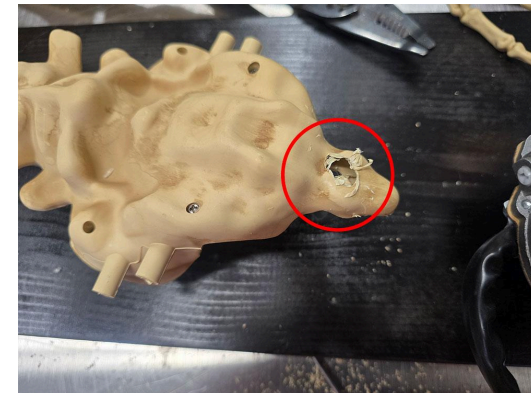
18. Screw in eyelet hooks in each of those holes



19. Drill a hole 4" down along the bottom board and put in an eyelet hook



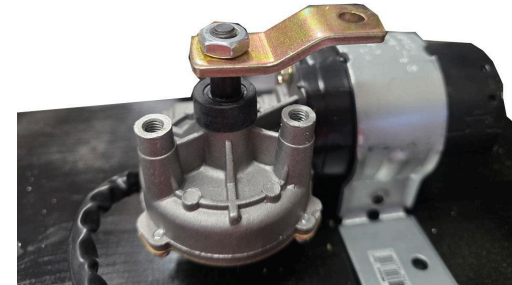
20. Drill a 5/16" hole in base of the tailbone (I removed a small screw in the tailbone of my skeleton and drilled my hole in that spot)



21. Put a washer on the 3.5" x 1/4" Hex Bolt and slide through the hole in the tailbone
22. Put another washer on the bolt and now spin a nut about 1.5"
23. Now put the hex bolt through the arm on the motor
24. Put another washer then hex nut on the bolt below the motor arm
25. Then add the lock nut onto the bottom of the bolt just barely until engaged with the nylon



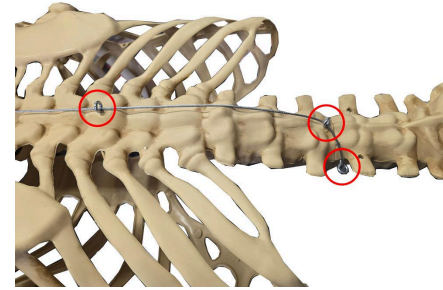
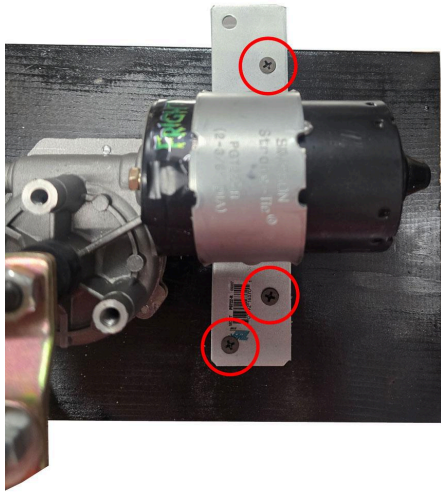
26. Plug in the power supply and turn on the speed control to a slow setting then stop and position the motor arm to the 6 o'clock position as seen in the picture



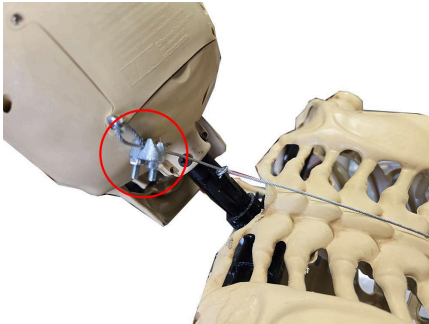
27. At the front of the skeleton, fold the arms and position the elbows of the skeleton on the top of the T board
28. Just below the elbow, drill a hole in each arm and into the board
29. Screw in a 1 5/8 drywall screw into each arm securing it to the board



30. Push the skeleton back on its arms a little bit
31. Fasten the fence bracket (with motor inside the bracket) to the bottom of the T board



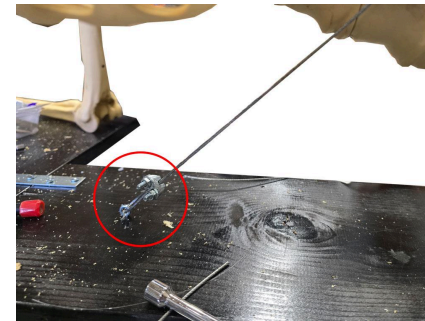
32. Thread the wire rope through the rope clamp then through the eyelet hook on the skull then back through the rope clamp, tighten the rope clamp with the bolt driver



33. Thread the wire rope through the eyelet hook on the PVC neck, then through eyelet hook that is 6" down along the spine and then the next eyelet hook, then through the eyelet hook on the side of the spine

34. Thread the wire rope through the other rope clamp then through the eyelet hook on the board and back through the rope clamp
35. Prop the skull in the up position

36. Pull the wire rope as tight as you can and tighten the lower rope clamp with the 7mm bolt driver



37. Now turn on the speed control power supply and see how the body and move, if you need to make adjustments loosen the rope clamp a little bit and either tighten or loosen the rope itself, you might also need to move the arms or motor bracket that are screwed into the board