

Macgyver - 2WD Frame Starter Pack

Assembly Difficulty: Medium

GK-KIT-005



geekÜs

Parts List

Please make sure that the following pieces are included in your kit!

Component	Quantity	Remarks
Acrylic Frame	1	Use 1/16" Drill bit to make holes.
Wheel with Rubber Tire	2	2.51", Low Grip Rubber Tires
6v AA Battery Holder	1	4x AA batteries not included
Plastic motor encoder	2	Optional black encoders for RPM, IR/Photoelectric Sensors needed.
Wheel Coaster	1	Metal base with plastic wheel goes in the back.
6v DC Motors with Gearing	2	Must solder or crimp wires.
Miscellaneous screw pack	1	Enough for mounting motor and third wheel.

Recommend tools

Needle Nose Plier



TOL-08793
Glue (Optional)



8334-3ML
Wire Stripper (Optional)



HT-1041

Philips Screwdriver (+)



800-002
Soldering Iron (Optional)



SI-9600
Double Side Tape (Optional)



TAPE-DSF-10MM

Hobby Knife (Optional)



900-112
Brass Sponge (Optional)



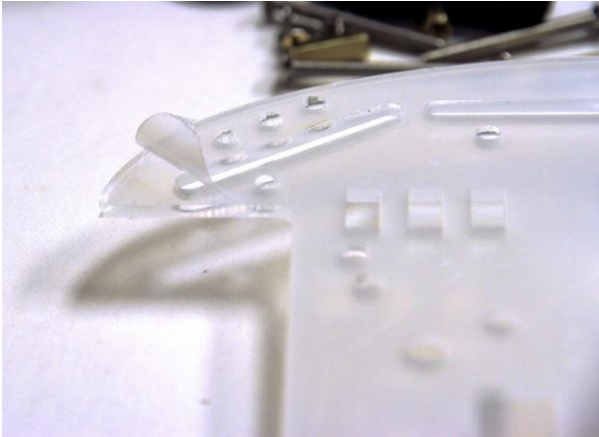
TOL-08964
60/40 Solder



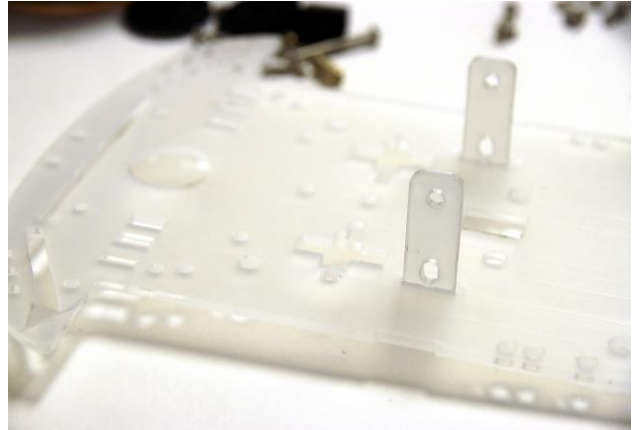
S015-1/2LB

Installation Guide

Step 1) Peel the protective adhesive off!

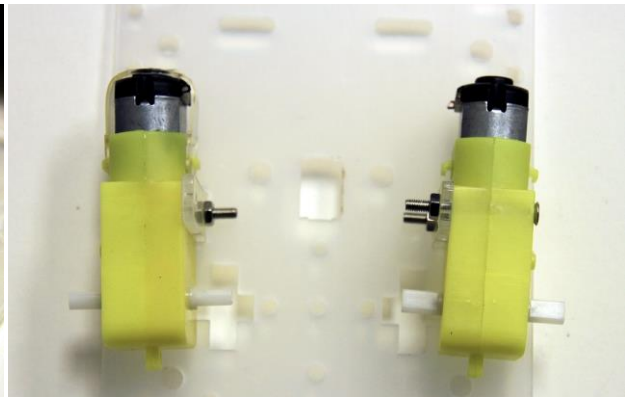
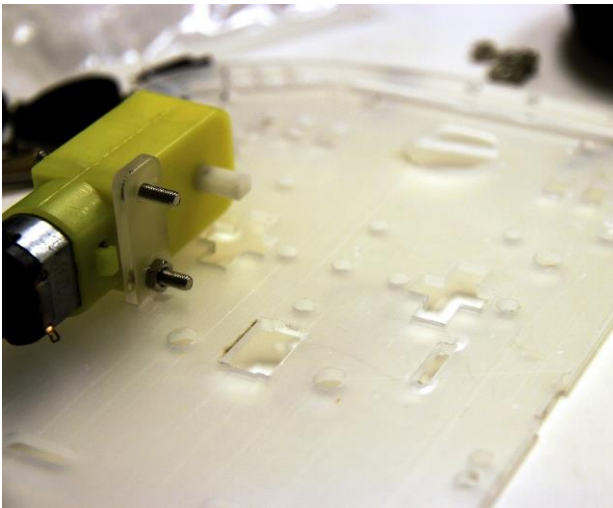


Step 2) Slide in the motor mounts.

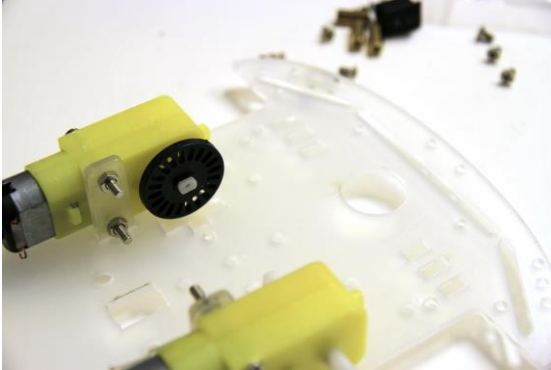


Step 3) Slide in the long screw and fasten with nut, for the bottom push the mount towards the motor to create some space for the nut to go into. If that doesn't work use a Philips screwdriver and fasten the screw with the needle nose holding the nut into place. White shaft must align with "+" shape cutout!

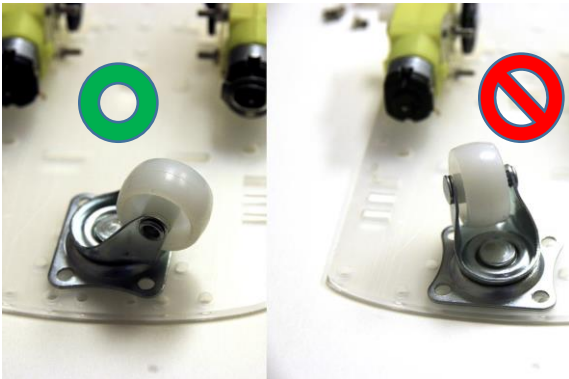
Step 4) This is what it would look like with both motors mounted into place. (Optional) If you want the motors to be positioned straight, align the motors as best as possible to be straight, flip the board and on the motor mounts insert in-between the gaps some glue. Allow to set into place.



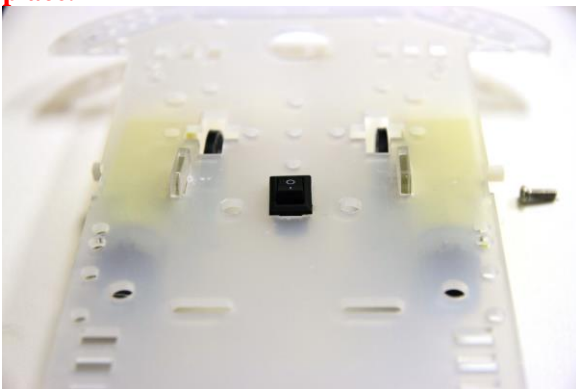
Step 5) (Optional) Slide in the encoders and glue the ends to prevent the encoder from falling out. This is entirely optional as most kits do not use the encoder function.



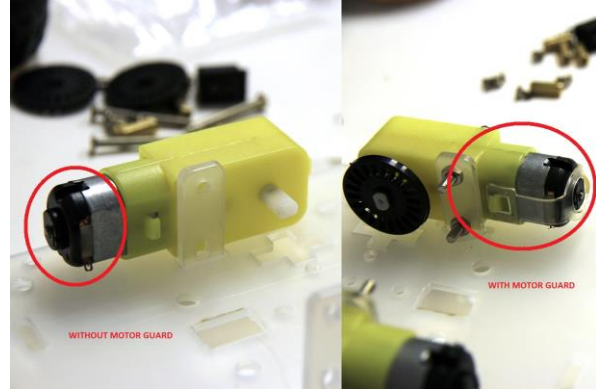
Step 7) Correctly Orient the wheel coaster in the position shown below in green. The long side must be facing towards the curve end of the frame.



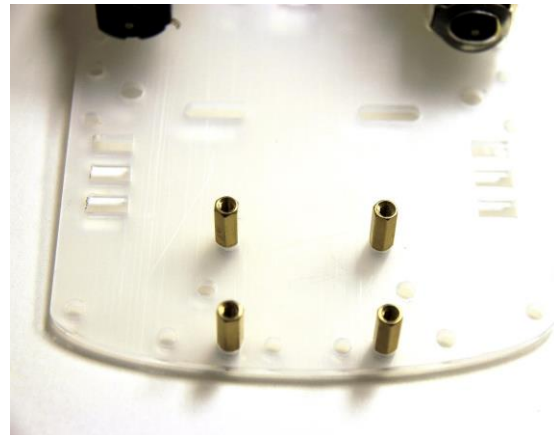
Step 9) Insert the Push Button into the square cutout, you may need to use glue to secure into place.



Step 6) You can solder the cable with or without the plastic strap. It is recommended to remove the plastic guard using a needle nose plier to prevent accidental melting of the motor strap.



Step 8) Insert the standoff as show in the image below. Place the wheel coaster over the standoff and use the small screws to fasten into place. Note: You may need to put the standoffs to align with the wheel coaster.



Step 10) Using the long screw and a Philips screwdriver, create a larger thread and fasten with a nut on the other side to the frame.

