

DriveBot Chassis Assembly

MATERIALS

- Laser cut parts, epoxy, popsicle stick, notecard, ceramic tile, gloves, safety glasses

OVERVIEW

Your kit should contain the parts shown in Figure 1. The goal is to assemble your chassis, as shown in Figure 2.

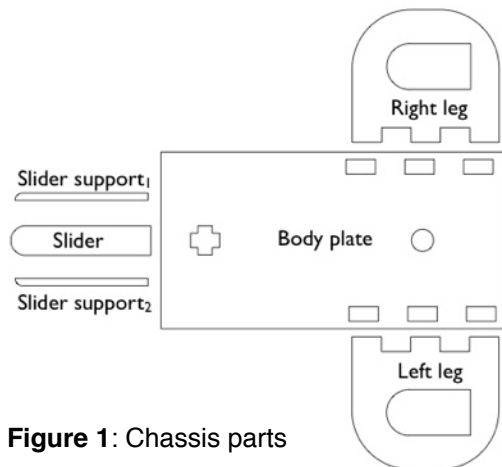


Figure 1: Chassis parts



Figure 2: Assembled chassis

INSTRUCTIONS

1. You will be assembling the chassis upside-down (i.e. with the body laying flat and with the right and left legs extending up from the table toward you). Prepare your parts; [align the components](#) next to each other (refer to Figure 1) on the ceramic tile.
2. PUT ON NITRILE GLOVES AND LAB GLASSES. How to epoxy:
 - a. With the epoxy packet still sealed - [squeeze the epoxy](#), as if squeezing toothpaste to the bottom of the tube.

It is very important for the next steps [in green](#), that you [work quickly](#), so the epoxy does not harden.
 - b. [Tear the top off the epoxy.](#)
 - c. [Squeeze all the contents onto the notecard.](#)
 - d. [With the popsicle stick, mix the epoxy components by stirring, until the resulting substance is a pearly white color.](#)
 - e. [Review where you will spread the epoxy, as depicted below \(Figure 3\).](#)

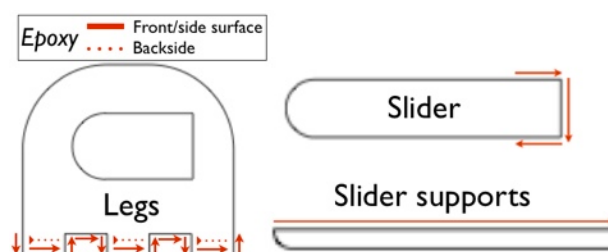


Figure 3: Epoxy placement

- f. Use the popsicle stick to apply epoxy to the right leg.
- g. Place the right leg into the corresponding slots in the body.
- h. Repeat f. & g. for the left leg.
- i. Before attaching the next part, lift the body up from the ceramic tile, and place it down in a different spot, so the frame does not get glued to the ceramic tile.
- j. Epoxy and place the slider.
- k. Epoxy and place the two slider supports, one at a time.
- l. Using the remaining epoxy and the popsicle stick, test when the epoxy is dry.