

# Chassis Assembly

## Part 2

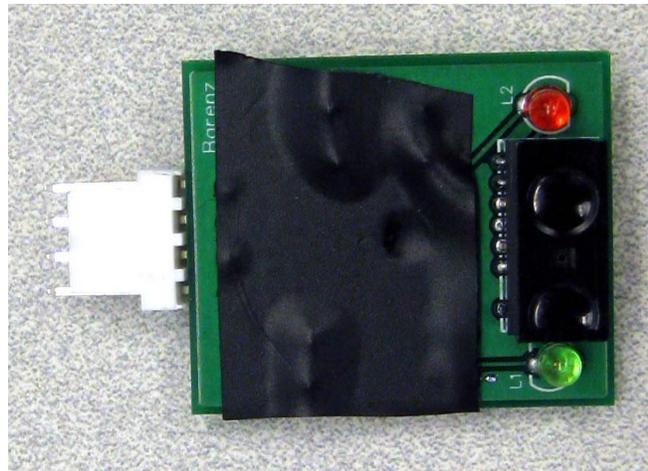
Shock absorber. Remove the 5/16" adjusting collar from the shock by pulling on its tab. Insert the 1/8" collar. Press the bushing into the end hole of the shock. Save all of the bushings provided. They may be necessary later for adjustments you may want to make.

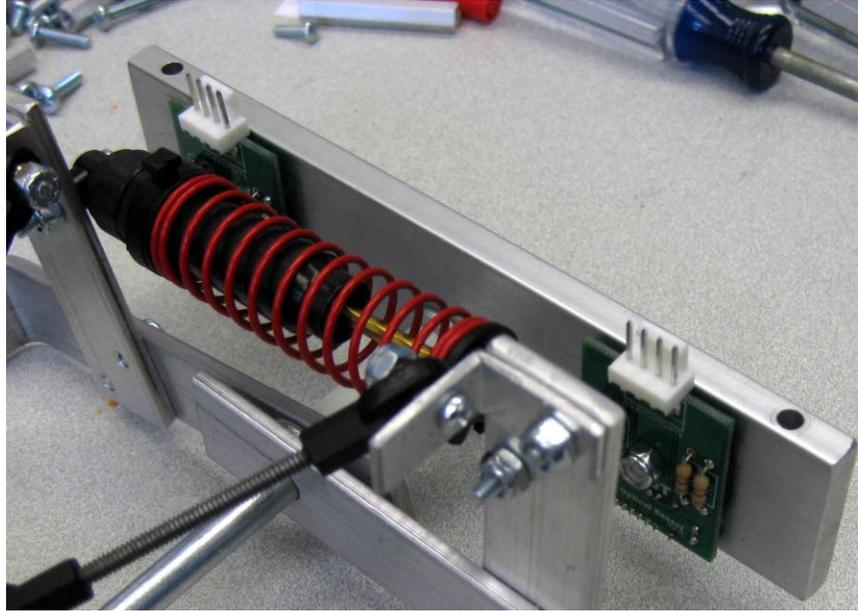


Mount using 6x32x3/4" bolts and nylon lock nuts. Note the placement of the black plastic washer.

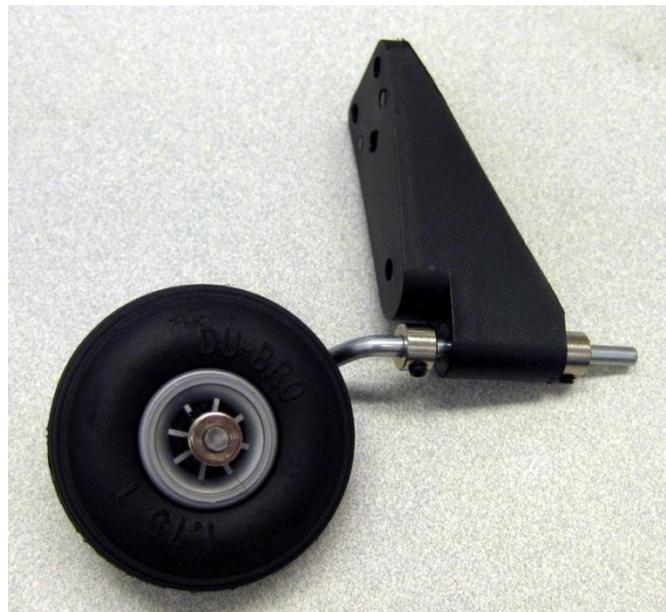


Mount the sensors using 4x40x1/2" bolts, black plastic washer and nylon lock nuts. The washer will hold the circuit board away from the aluminum bar. If any of the soldered leads touch the bar, they will need to be trimmed. If parts of the board or solder still touch the aluminum you will need to use an additional washer. I recommend that you place a piece of black electrical tape over the soldering on the circuit board.

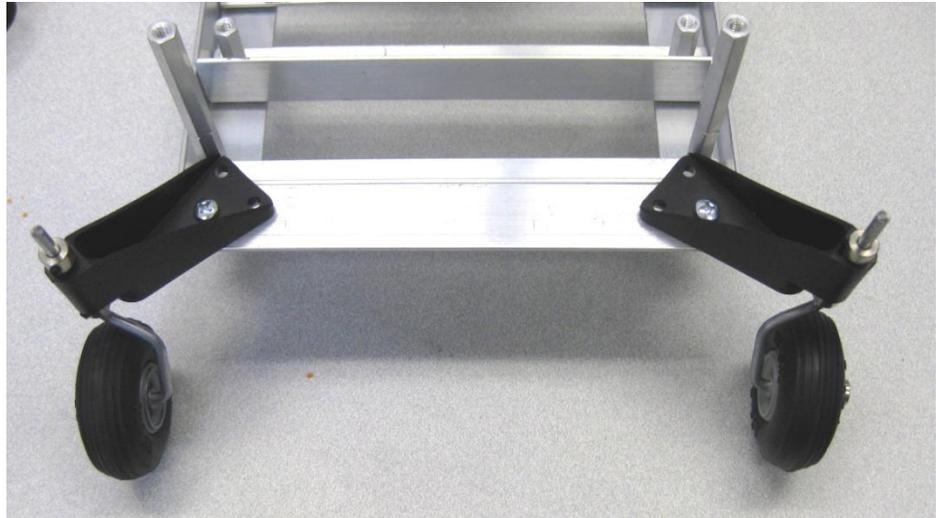




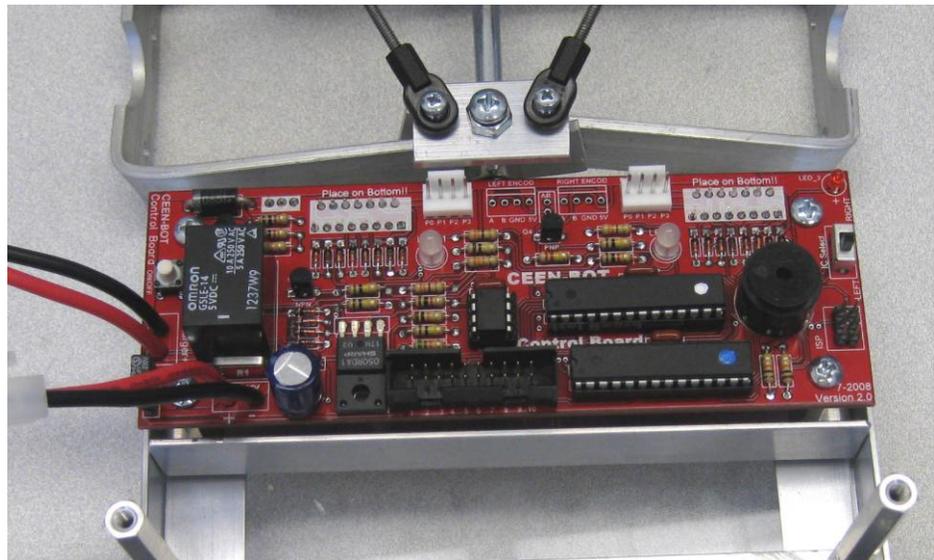
The bag with the tail wheel assembly has some very tiny set screws. **Be careful when opening the bag** that you don't lose them. Thread all of the set screws into the collars. Don't insert so far that they protrude into the center. Assemble as shown in the picture and tighten the set screws.



Mount the tail wheels to the tail ledge with 6x32x1/2" bolts and nylon lock nuts. They can be mounted pointing back or to 45° to the side. For now, mount pointing to the side because the CEENBoT will fit into its box.



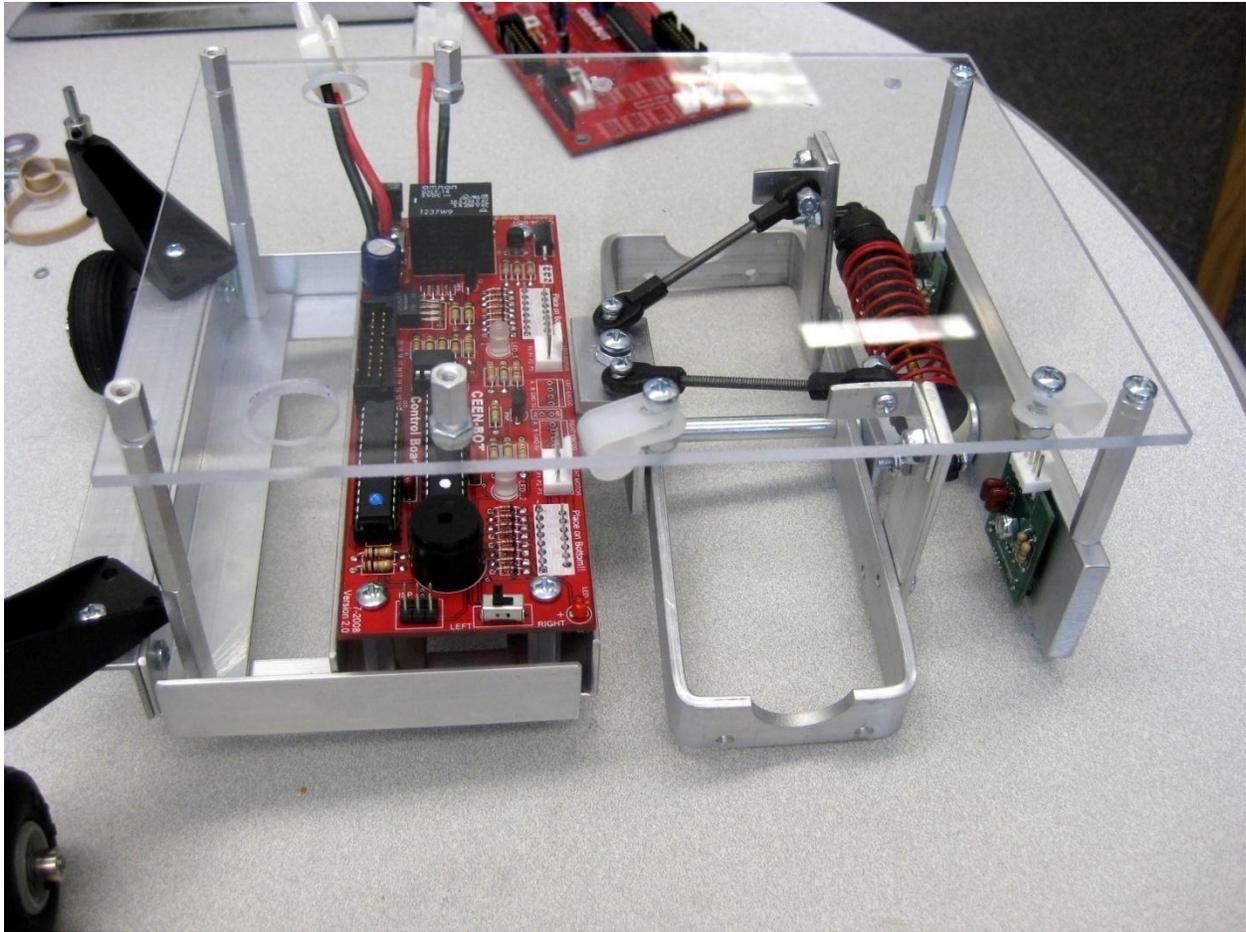
Mounting the Control Board. Bend the H-bridge components which are on the bottom of the Control Board slightly outward. When the board is attached to the tray they will make contact with the forward aluminum rail and provide a heat sink effect. Mount the Control Board on the stand offs in the front tray with 6x32x1/4" bolts. Make sure it is oriented so the connectors are on the left side.



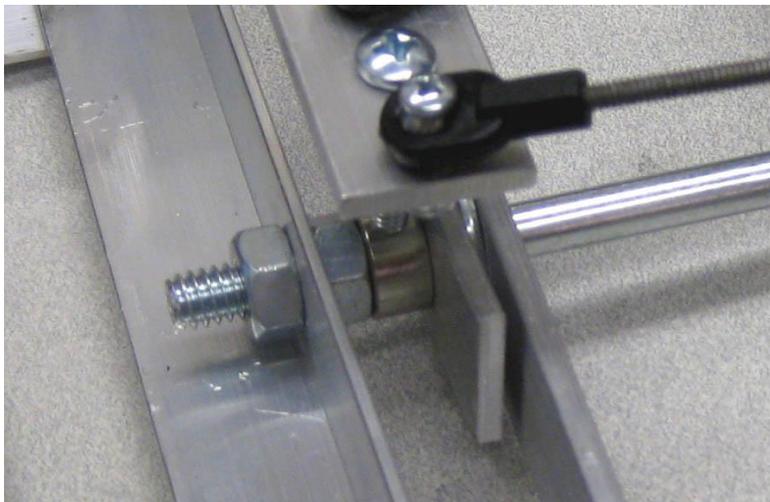
Mount 1 1/2" F-F stand offs on the rear stand offs which have been previously installed. Mount 1 1/2" F-F stand offs on the front sensor mounting bar. Secure with 6x32x1 3/4" bolts inserted from the bottom of the sensor bar.

Remove the blue protective film from the Plexiglas. Mount two M-F 3/8" stand offs with nylon lock nuts just forward of the 5/8" holes in the Plexiglas. Mount the two cable holders in the right side holes using 6x32x1/2" bolts and nylon lock nuts. Do not tighten – they will need to be undone to insert the cables at a later time.

Position the four corner mounting holes over the stand offs and secure the front with 6x32x 1/4" bolts. Secure the rear with 3/8" M – F standoffs.



If the spacing of the holes is longer than the stand offs, extend the CEENBoT body by unscrewing the two nuts on the king pin assembly until the distance is correct.



Mount the Interface Board to the four stand offs at the rear of the Plexiglas with 6x32x 1/4" bolts. The ON/OFF switch goes to the back.

