Under Carriage Infrared Sensors Assembly

Figure 1

**Introduction**
The infrared sensor board is used to see a black or nonblack surface. This broad can be used to follow a line or can see that the Boe Bot is still in the ring for the sumo competition. To connect and program the Boe Bot to use the sensor board see Cable Instructions.

**Instructions**
1. Insert the ⅜ in. screw though the top of the Boe Bot chasse.
2. Thread the $\frac{3}{8}$ in. nut onto the screw.
   a. Do not tighten the nut at this time.

3. Thread the standoff onto the screw.
   a. Tighten the standoff onto the screw.

4. Repeat steps 1-3 for the other side of the chasse.
5. Insert the ¼ in. screw though the infrared sensor board.
   a. Make sure the infrared sensors or pointed towards the ground.

6. Thread the screw on to the standoff.
   a. Tighten the board onto the standoff.

7. Repeat for the other side of the sensor board.

8. Tighten the nuts onto the chasse so that the board does not move.