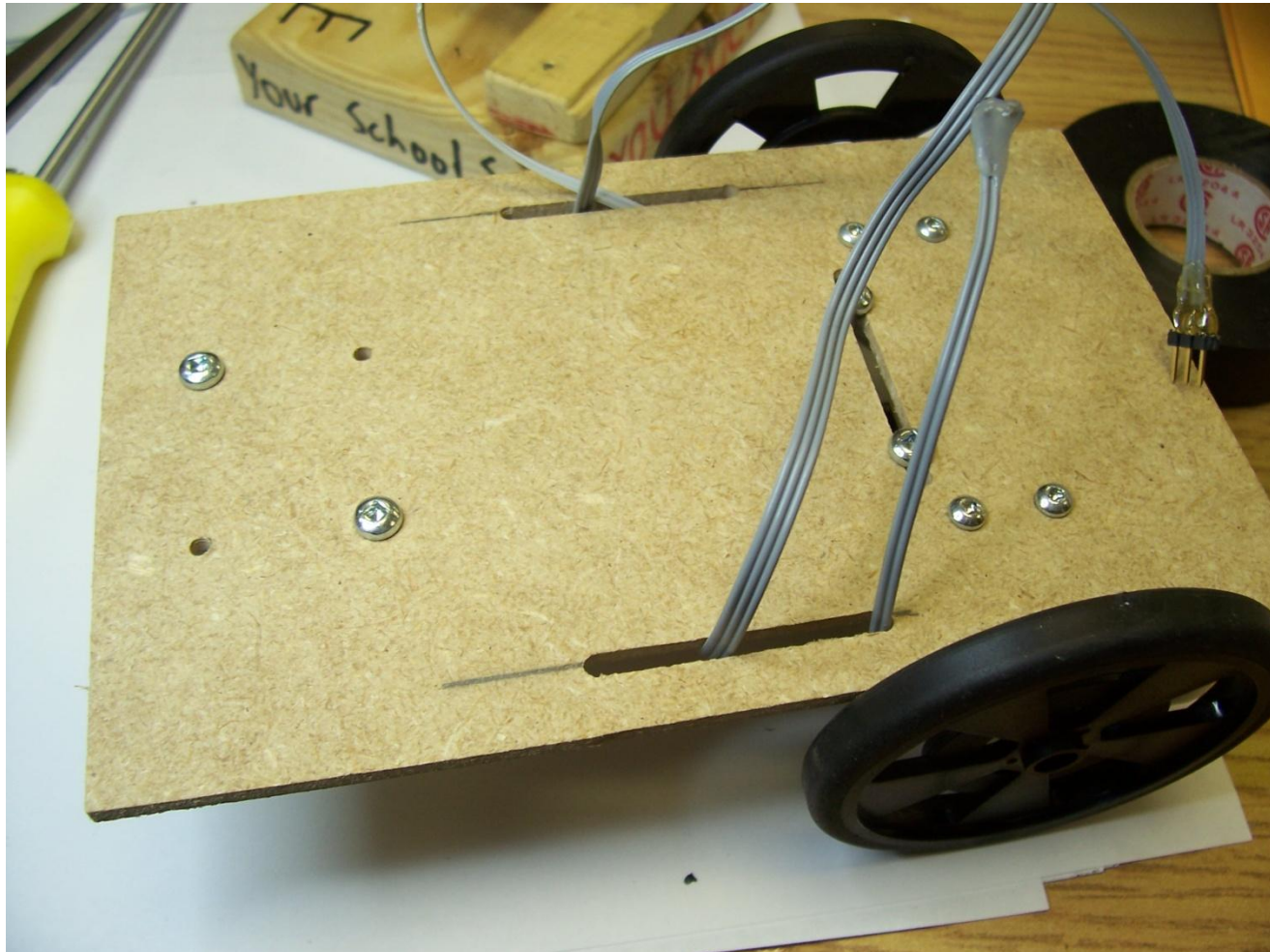
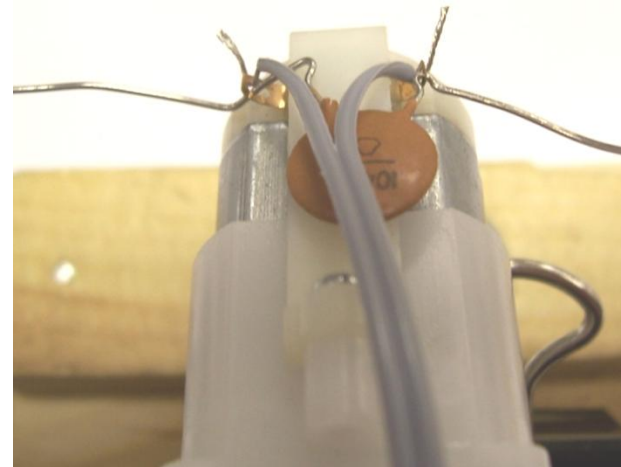
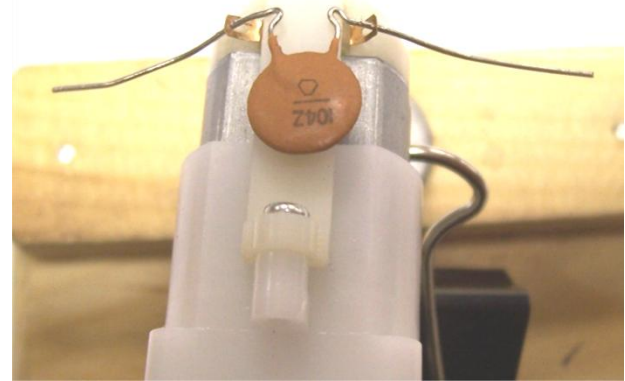


# Bot Assembly



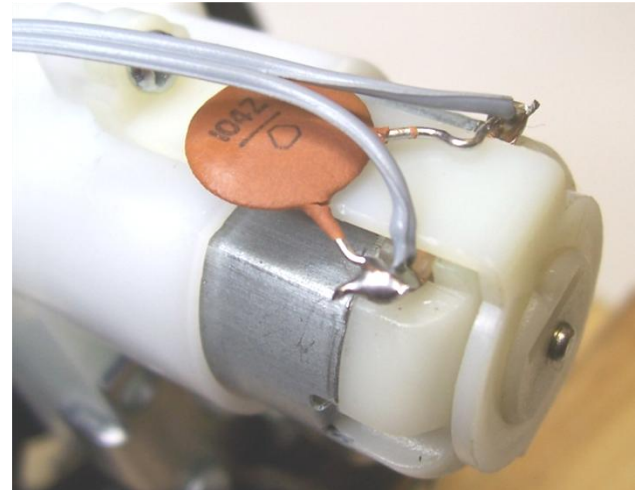
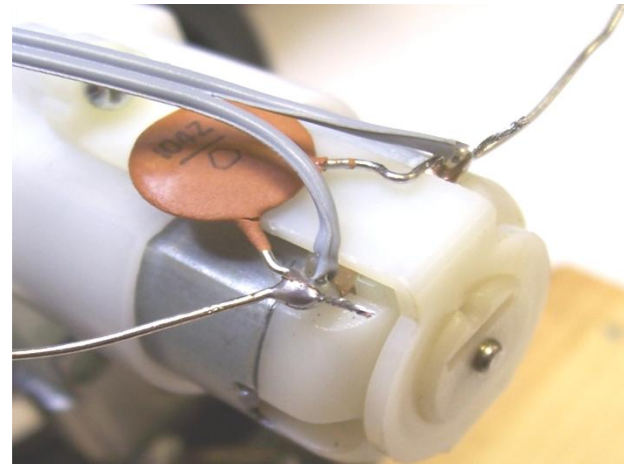
# Attaching the Cap and Leads

- Insert a 0.1uF ceramic disk capacitor into the motor terminals.
- Then insert the stranded wire.



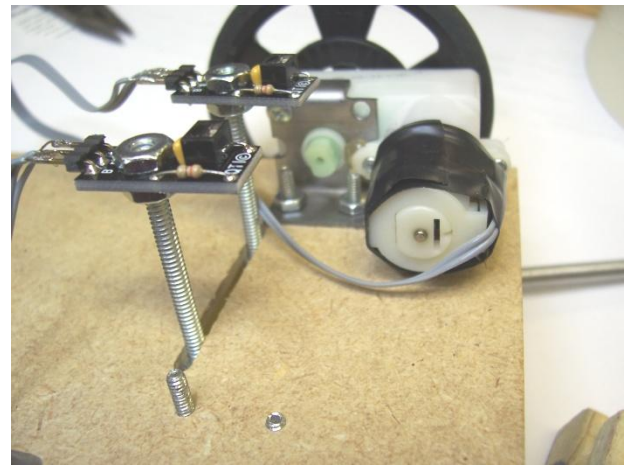
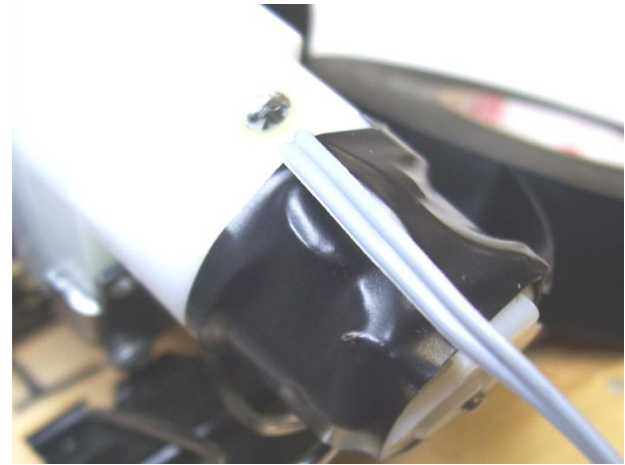
# Solder and Trim

- Solder the terminal, capacitor and lead.
- Trim the excess wire.



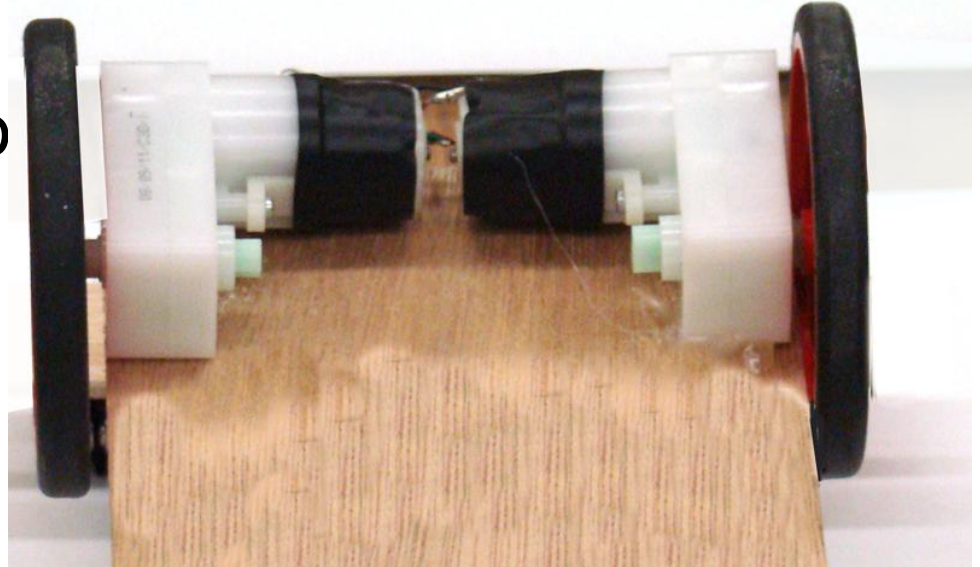
# Taping the Motor

- Wrap electrical tape around the motor, capacitor and wire.
- Fold back the wire and apply a few more turns of electrical tape. This ensures that if the wire is pulled it doesn't pull on the terminal.



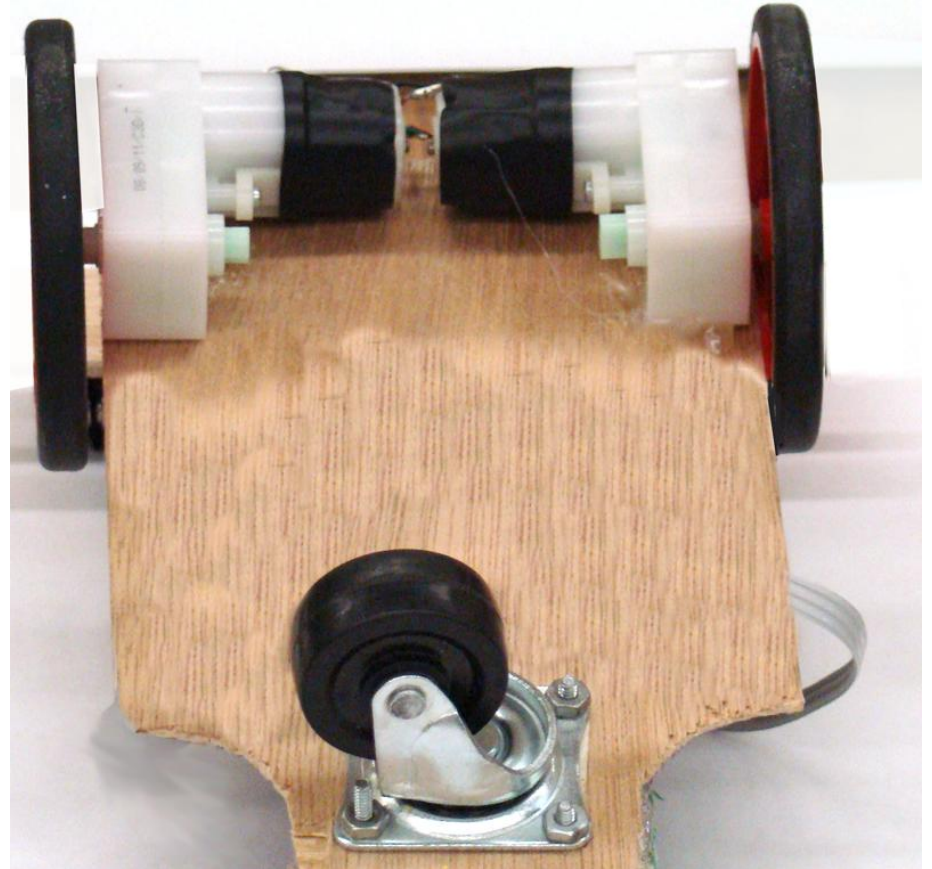
# Mount the Motors

- Mount the motors to the base using hot glue.
- Check for proper alignment of the wheels so your robot doesn't pull or drag.

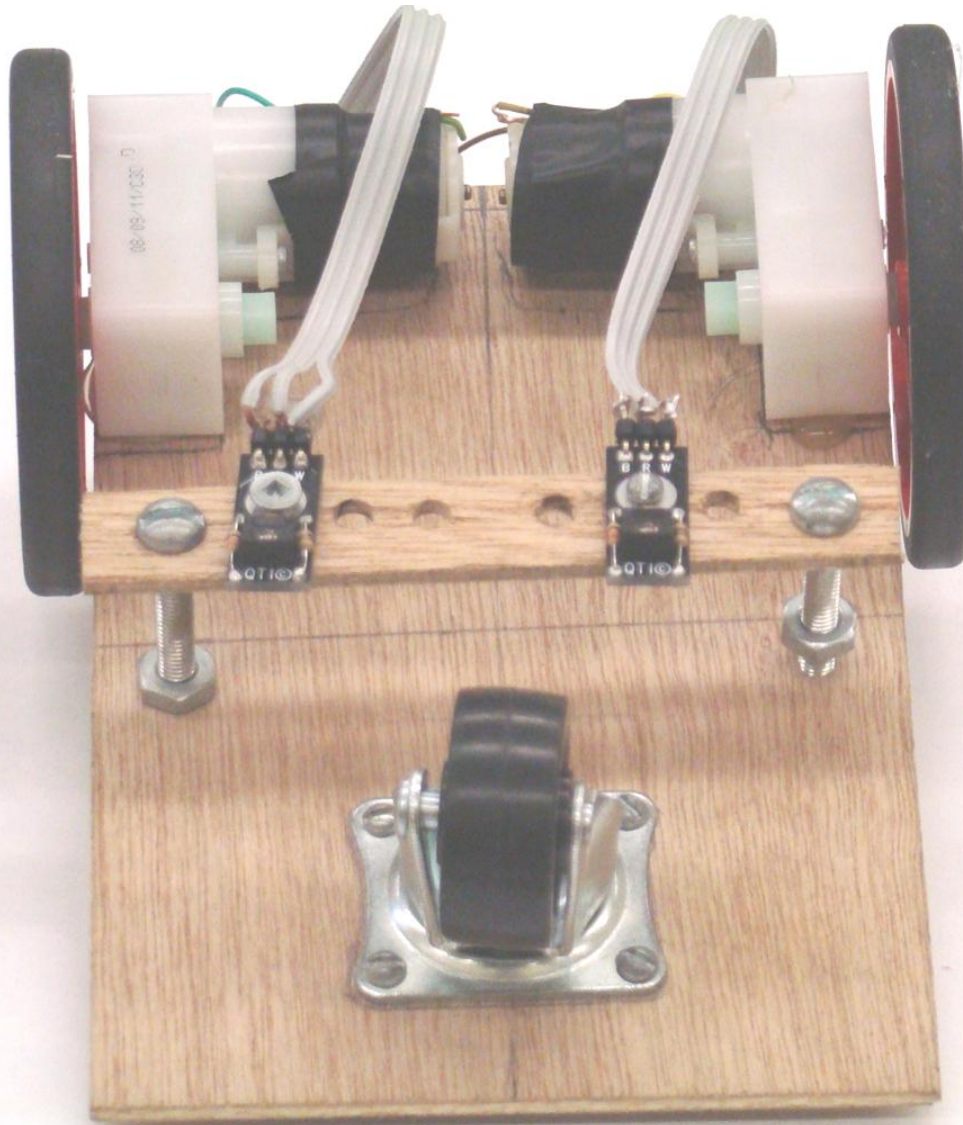


# Adding the Caster

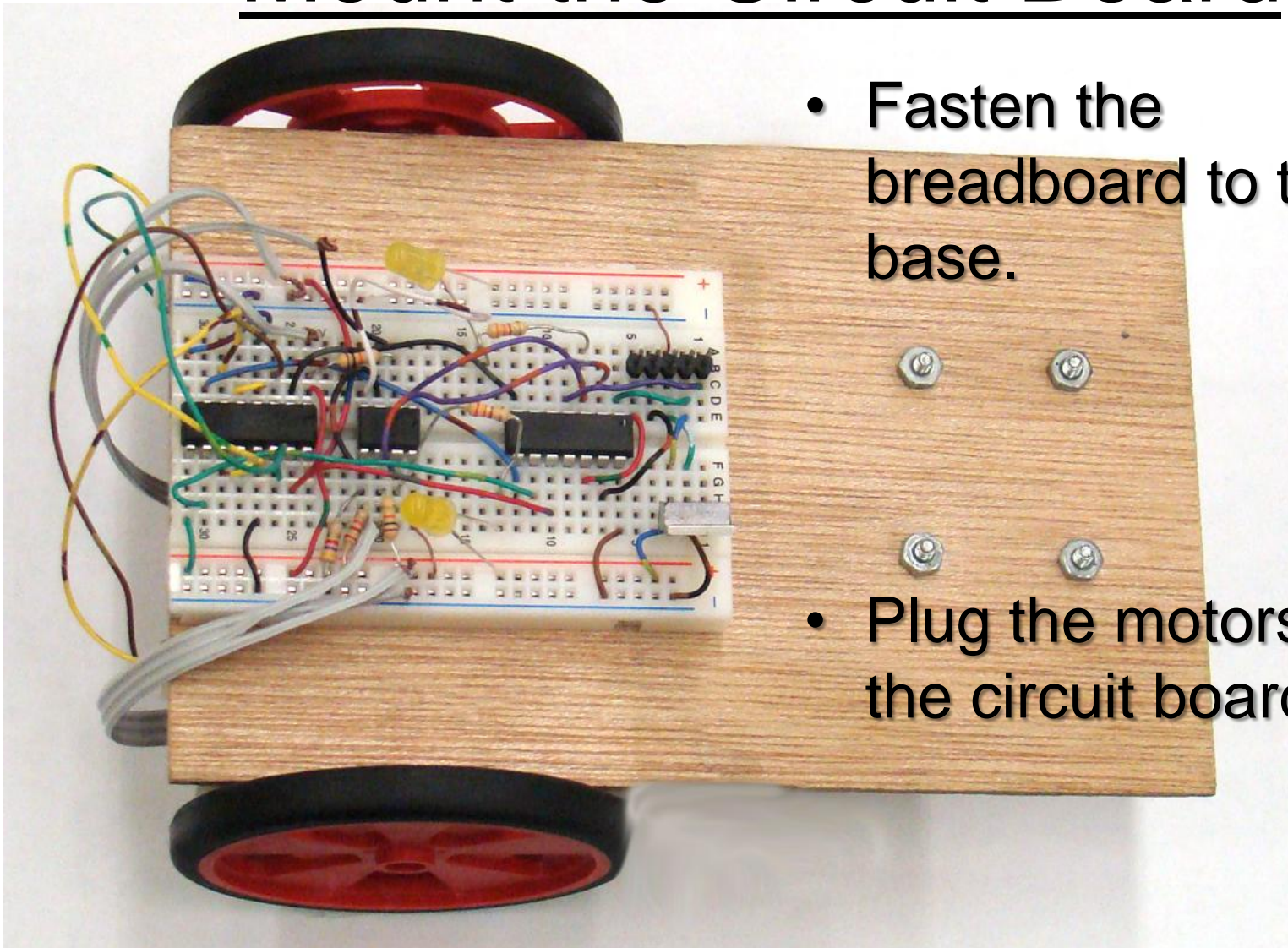
- Using #6 bolts secure the caster to the base. Use spacers to adjust the height so that the base is level.



# Mount the Line Sensors



# Mount the Circuit Board



- Fasten the breadboard to the base.
- Plug the motors into the circuit board.

# Ready to Plug and Play

