



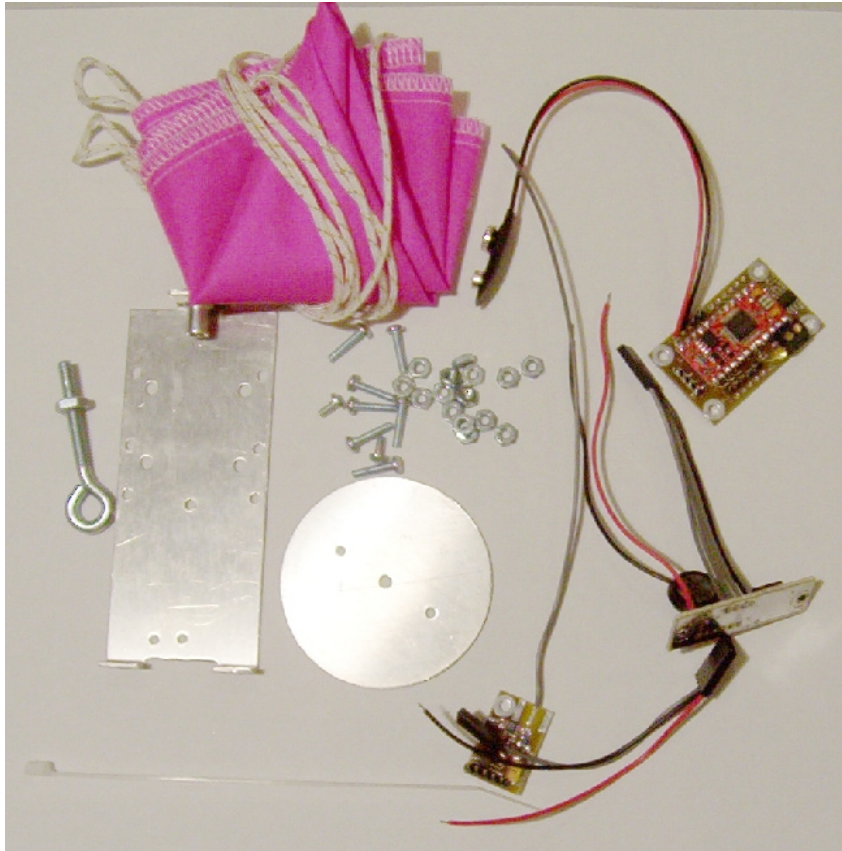
Building Up the Structure

In This Section, the *CanSat* Bus Will Be Partially Assembled

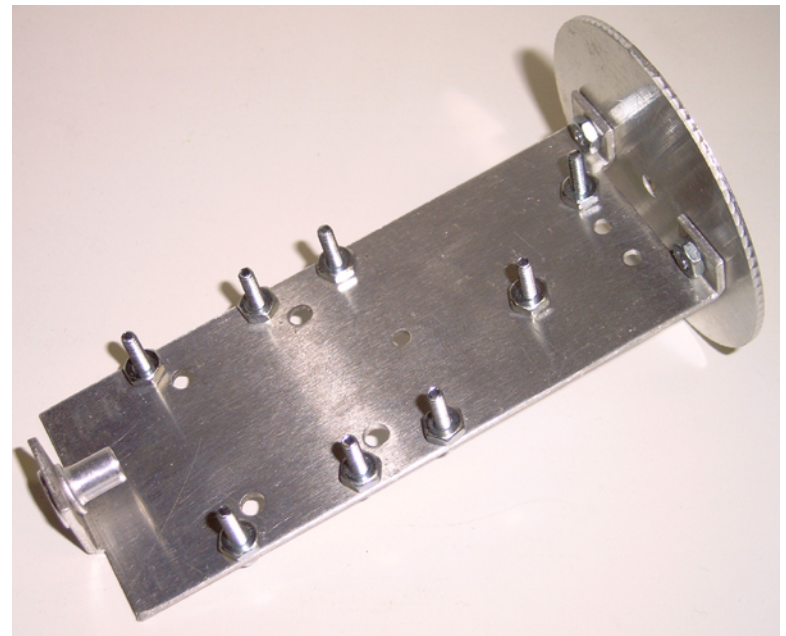
This Section Requires the Use of a Philips Screw Driver



Structure



- **The Structure Holds All the Components Together**
- **The Structure Provides a Place to Mount the Processor, Communications Boards, and Battery**





Parts List

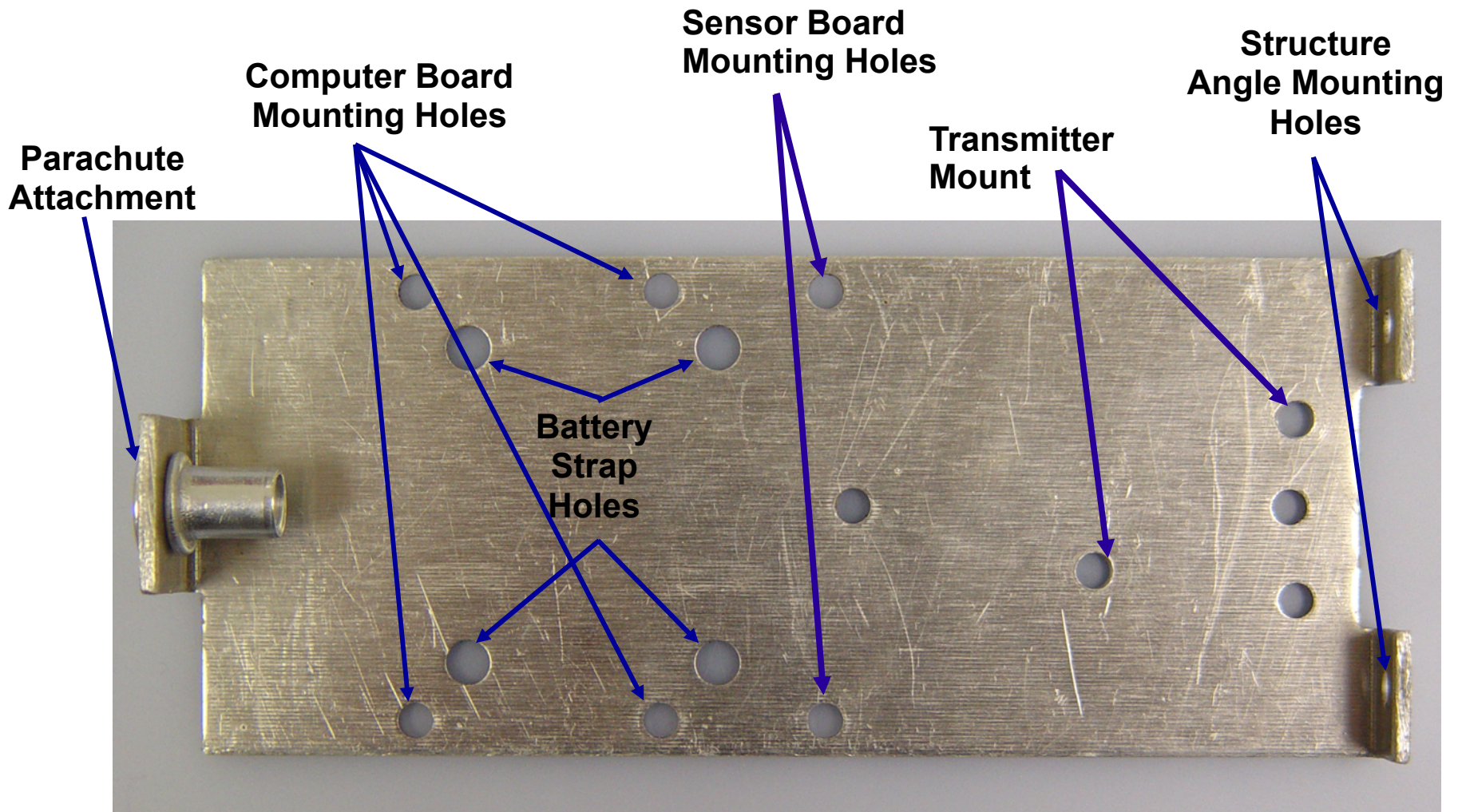


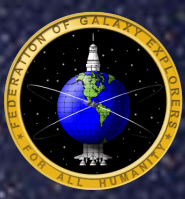
- **Electronics**
 - Processor Module
 - Sensor Module
 - Transmitter Module
- **Structure**
 - Aluminum Disc
 - Aluminum Structure
 - 8, 4-40 ½ Inch Machine Screws
 - 2, 4-40 ¼ Inch Machine Screws
 - 18, 4-40 Hex Nuts
 - 12 Inch Parachute
 - 10-24 Machine Screw Eyelet
 - 9 Volt Battery
 - 2, 5 7/8 Inch Cable Tie
 - Programming Cable



CanSat Assembly

Hole Pattern Designation, Top Side View

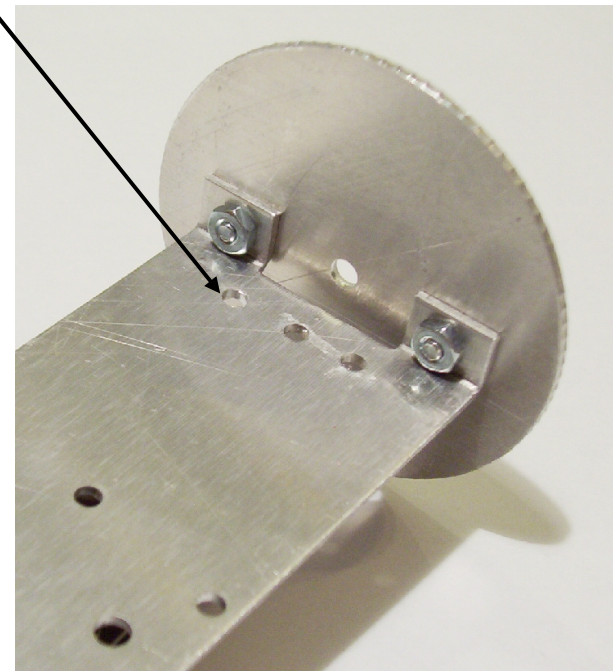
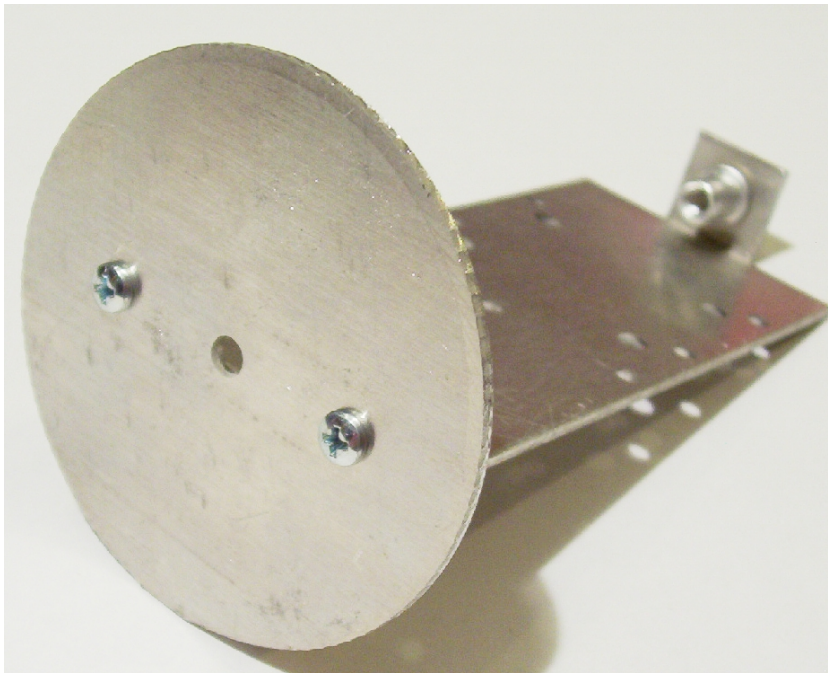




CanSat Assembly

Attach the Main Structure to the Disc As Shown and Secure With the 1/4 Inch 4-40 Screws and Nuts; The Nuts Go on the Inside of the Structure As Shown Below

Transmitter Mount

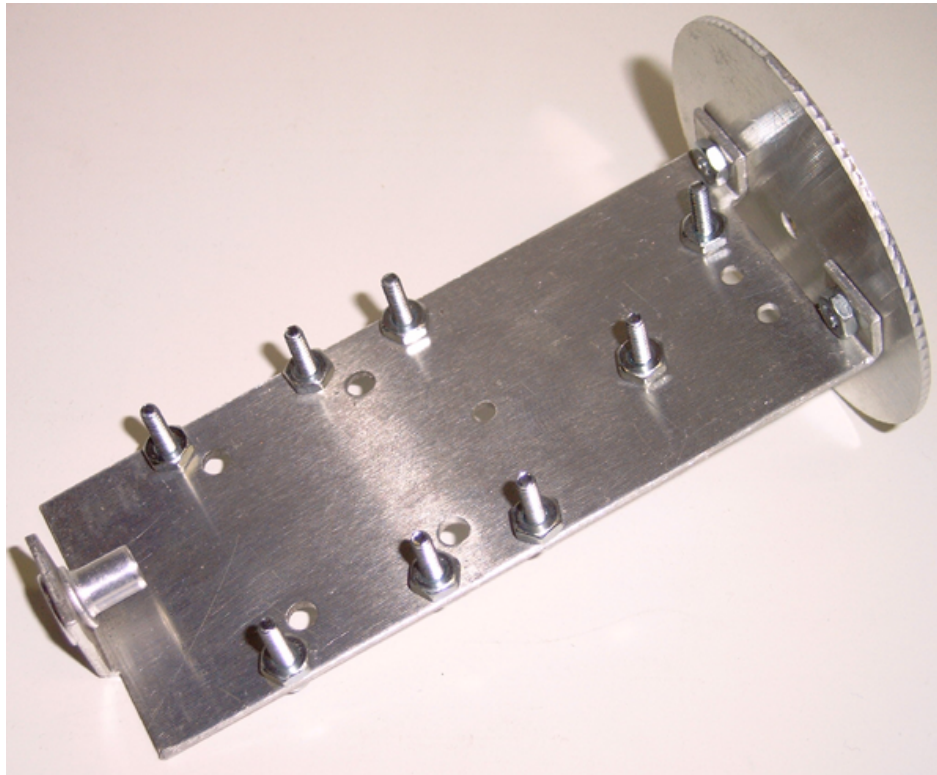




CanSat Assembly



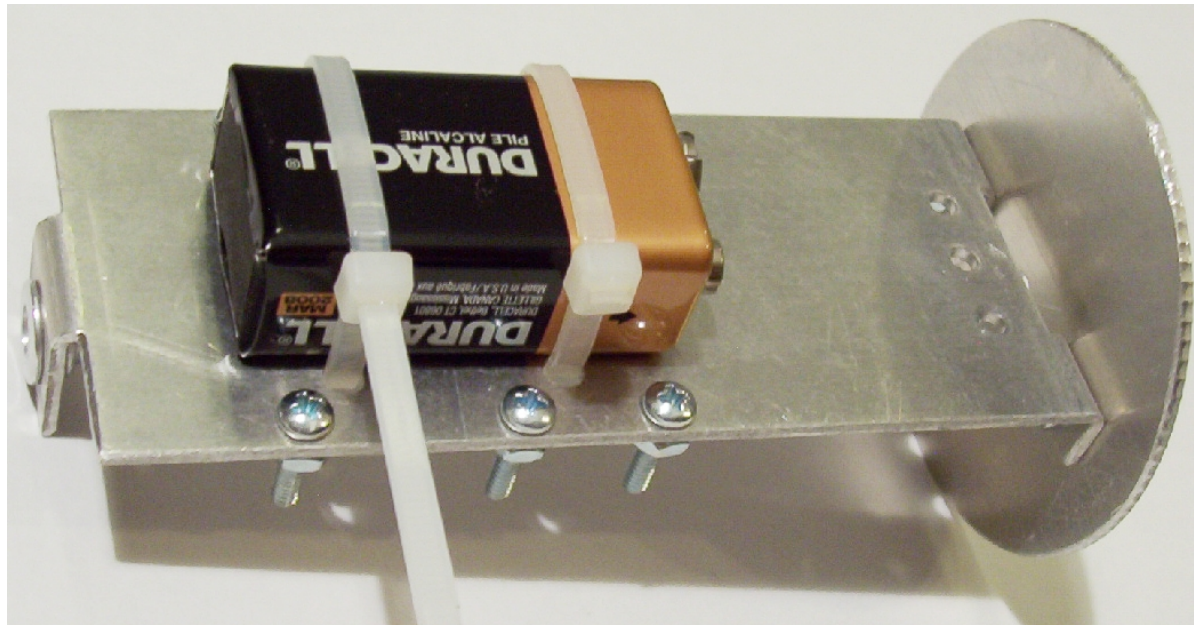
Install the Eight ½ Inch Screws for Holding the Circuit Boards and Secure Them With the Nuts As Shown Below. You need to make sure all the nuts are installed because the circuit board will sit on the nuts so they won't touch the structure.





CanSat Assembly

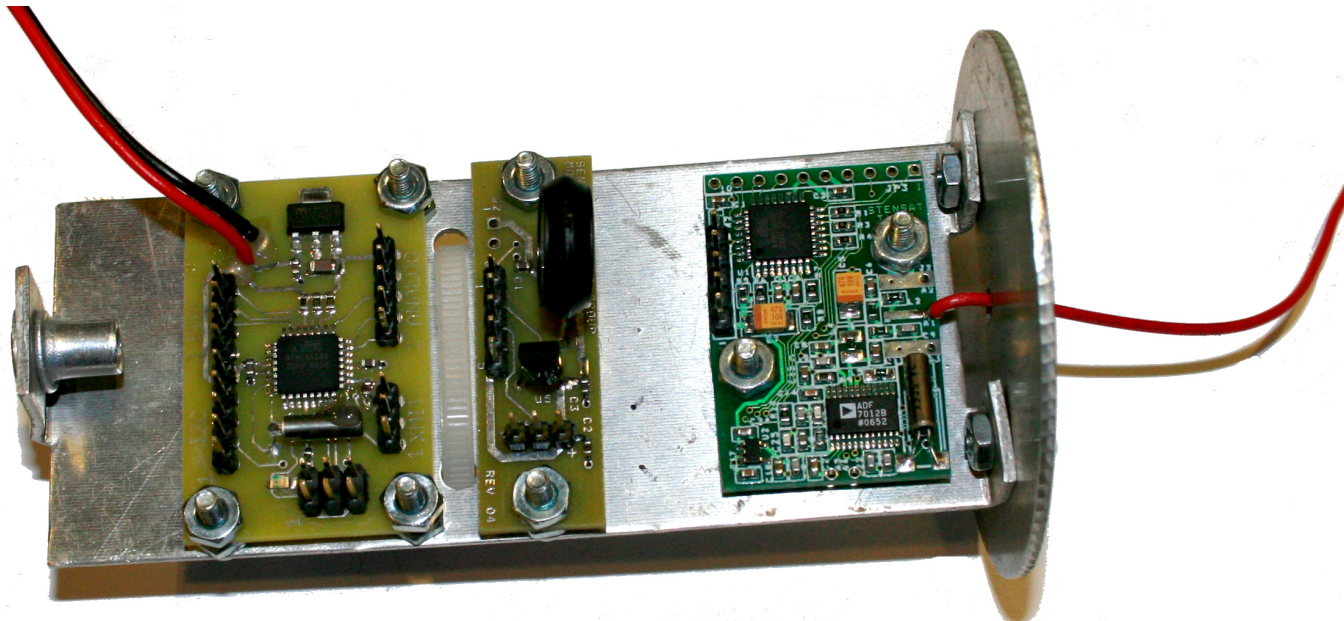
- Flip the Structure Over So It Looks Like Below
- Insert the Tie Wraps From the Side the Battery Mounts in the Holes for the Battery and Secure the Battery in Place As Shown
- Make Sure the Tie Wraps Are Secured Tight; Make Sure the Tie Wraps Do Not Bulge on the Other Side
- When Getting Ready for Flight, You Can Wrap Electrical Tape Around the Battery and Structure for Added Security





CanSat Assembly

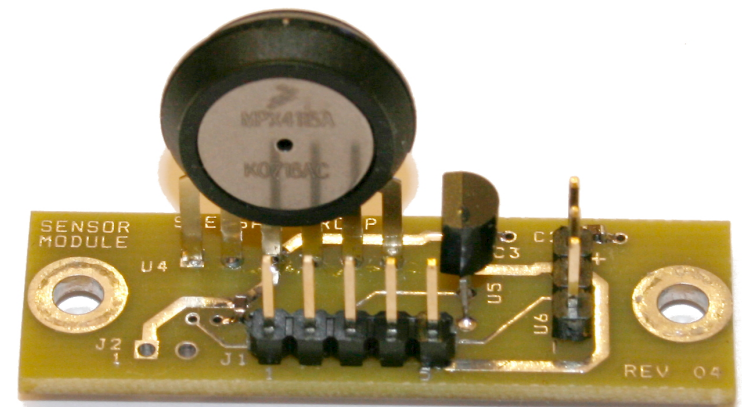
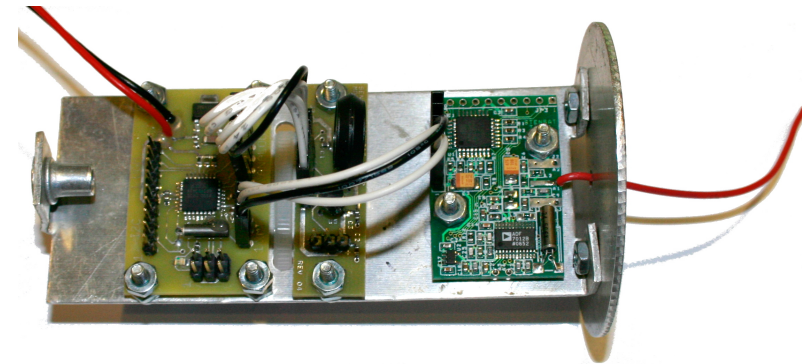
- **Mount the Circuit Boards to the Structure As Shown in the Picture**
 - **Secure Them to the Structure Using the Nuts**





Connecting the Sensor Board

- Look at the Connector on the Sensor Board
 - One End Should Have the Number '1'
- Look at the Processor Board Analog Input Connector
 - To the Left Side Should Be a Small Number '1' on the Board
- Connect the Sensor Cable to the Sensor Board Connector and the Processor Board Connector; Black Wire Connects to Pin '1' on Both Connectors





Summary



- **At the End of This Section, You Should Have the Sensor Board Connected to the Processor Board**
- **The Transmitter Board Is Not Connected at This Time**