We’re launching April 30th!!

- Test vehicle to test components/applications including:
  - Parachute deployment system (Now pull pin device)
  - Separation of control box with test box
  - Ohio Device
  - Nichrome burn releases
- Will also be testing APRS and GPS tracking devices
NEW Mechanisms

• Ohio Device
  • Created to ensure a clean burn with NiCr wire.
  • Designed inside a plastic receptacle box, and has features that prevent tangling and jostling of the NiCr, which has previously been cause for failure.
  • Will allow the release to be mounted inside the control box, preventing external batteries and wires that will only cause problems upon liftoff.
New Mechanisms cont.

• **Pull Pin Device**
  
  • Starts a timer for parachute deployment
  
  • Has replaced the DTMF board in the ballute because of simplicity with light weight
  
  • In theory, this system is also more reliable than the DTMF board that would be remotely activated to start the nichrome burns.

• Note: A successful parachute deployment has never been accomplished before. Testing this new pull-pin method is one of the main objectives of the test flight.
The Ballute!
The Ballute!

- Constructed out of balsa and top portion covered in monocoat. The lower portion will not be covered until the electronics have been mounted.

- A rounded foam tip has been acquired and will be attached as late as possible due to its inhibiting vehicle manipulation during the build.

- A vinyl dryer vent hose (7 oz) was used to form the actual ballute shape, it was anchored with fishing line around the top of the cone.

- The mechanical parts of our ballute and command box are completed. After our final orders come in and the finished electronic circuits are done we will be ready to run our final launch with the actual ballute.