

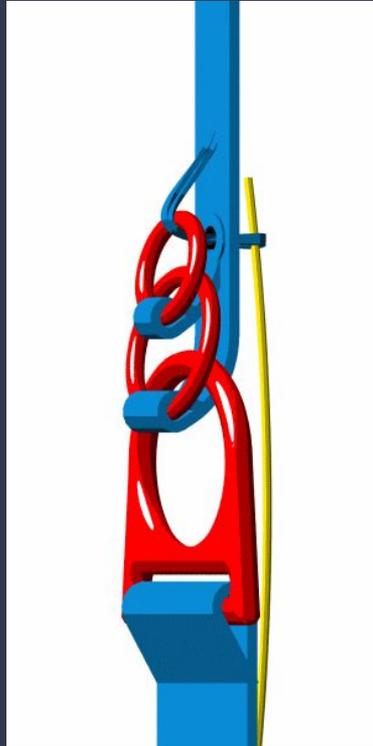
Delta Review

AIAA OC Section
November 27, 2018

3-Ring System

Before

A release system for the parachute to release all but a few lines to ensure the rover doesn't run over the parachute.



After

System has been removed completely.

- Designed for a rover that moves down the length of the rocket or around the rocket.
- Our rover is no longer doing the above.

Rover Release

Before

No Active Retention System

Autonomous Control of Release

After

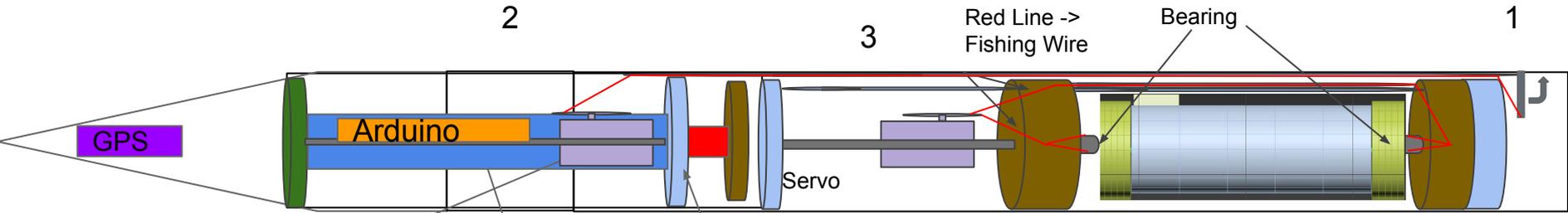
Active Retention system in place

- Hook system
- Will be connected to the RC control
- If power goes down in the system, the active retention system will not fail.

Release will be now manual and controlled via RC.

Rover is autonomous, but release is RC controlled.

Green Bulkhead = Aluminum Bulkhead



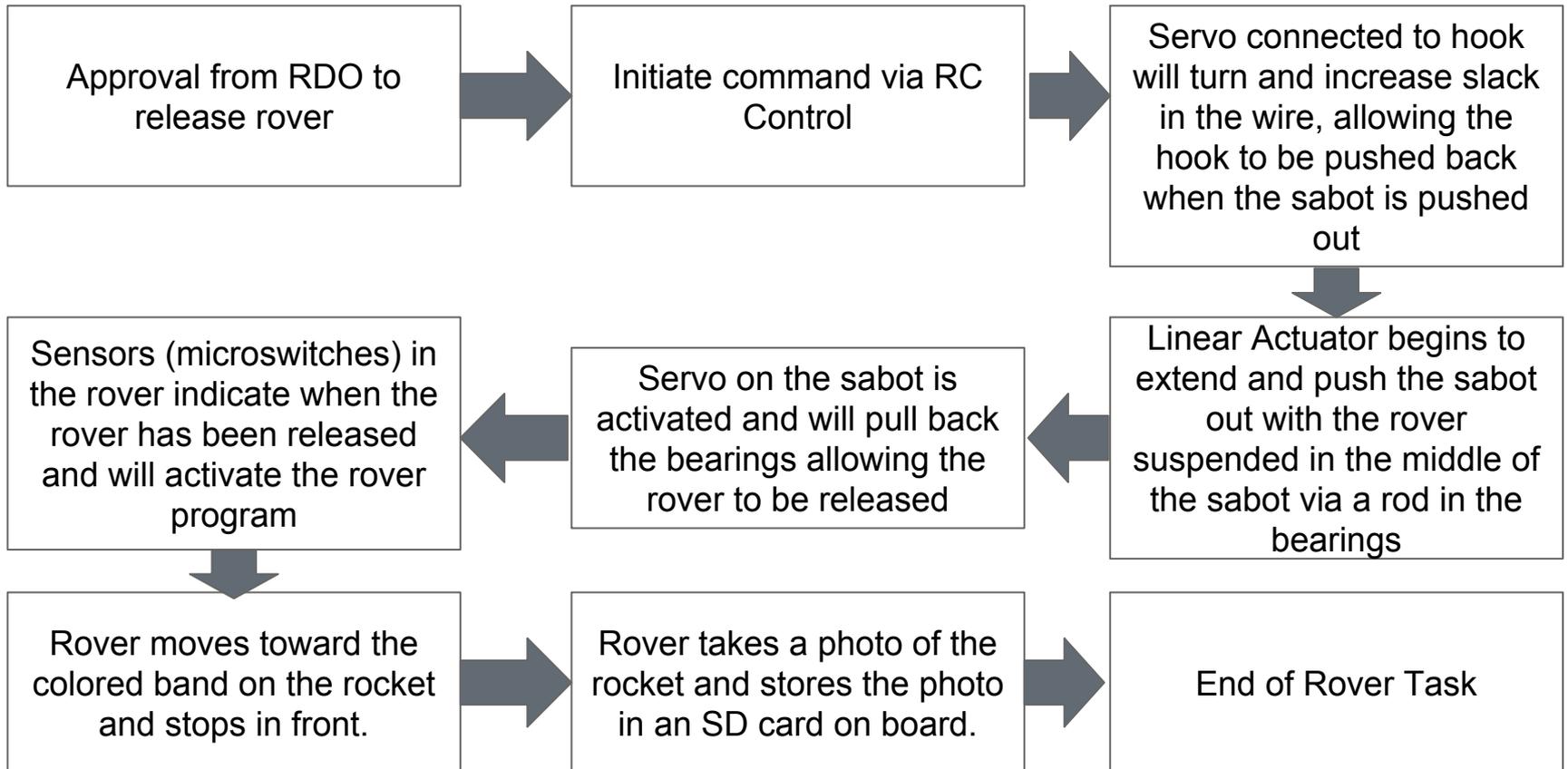
Board with hole cut out for actuator and servo and supported by rods connected to the two bulkheads

Hole through blue fiberglass bulkhead

Linear Actuator

Not to scale

Rover Release Diagram



Thank You