



Canadian Association of Rocketry
Association canadienne de fuséonautique

Flight Data Sheet

Flyer's Name:		Pad #:
Rail Length:	Radio Frequency:	Expected Altitude:
Mass:	Total Impulse:	Thrust/Weight Ratio:
Rocket Name:		
Rocket Length:	Diameter:	
Kit Manufacturer:	Modified? Yes <input type="checkbox"/> No <input type="checkbox"/>	Colour(s):
Motors (number, type & manufacturer in each stage):		
Purpose of Flight: Certification <input type="checkbox"/> Competition <input type="checkbox"/> Sport <input type="checkbox"/>		
Payload, Special Recovery/Ignition Systems, etc.:		
CAR/ACF #:	Launch:	Date:
LCO Post Flight Evaluation: Good Flight: Yes <input type="checkbox"/> No <input type="checkbox"/>		LCO Name:
Comments:		



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Rocket Inspector Pre-Flight Inspection Checklist

Propulsion

- Is the thrust to weight ratio high enough to assure safe flight?
- Is the thrust transfer ring or equivalent adequate to transfer motor thrust to airframe?
- Are all motors firmly retained to the vehicle?
- Is appropriate ignition source present for multi-stage or cluster? (i.e., low current, wired in parallel) ...
- If used, is motor deployment appropriate?
- If multiple stage, is system fail-safe in event of catastrophic failure during boost?
- If hybrid, is motor vent isolated from the deployment system, and visible from the LCO table?
- If hybrid, is the LCO familiar with the required launch procedure?

Flight Estimation

- Has the maximum altitude been calculated using appropriate means?
- Has the maximum acceleration and velocity been calculated using appropriate means?
- Does the model have an adequate stability margin? (CG/CP relationship appropriate for the design)
- If multiple stages present, was stability margin calculated and shown for all stage configurations?
- Was the CP calculated using an appropriate method? (e.g., RockSim)

Airframe

- Is the overall airframe structure adequate to withstand the anticipated flight forces?
- Are the fins secured to the airframe with adequate reinforcement?.....
- Are adequate launch guides present? (i.e., rail buttons, or tower)

Recovery System

- Is the shock cord adequate to handle the forces of high speed deployment?
- Are the shock cord attachment points sufficient to handle the forces of high speed deployment?
- Is the parachute or streamer structurally sound, and adequately sized for safe recovery?
- Is adequate protection present to protect parachutes or streamers from ejection charges?
- Are deployment charges adequately sized, installed, sealed, and ground tested when appropriate?
- Are nosecone and payload sections sufficiently snug to prevent drag separation?
- (If shear pins installed previously, obtain Roaming RI check of above. Signature: _____)
- Is a vent-hole present to prevent in-flight separation at altitude?
- Is a redundant deployment system present if loaded vehicle mass is over 5 kg?

Electronics

- Are all components adequately secured against acceleration forces? (i.e., batteries, connectors)
- Is the electronic circuit armed safely? (e.g., remote switches/indicators present to protect the user) ...
- If RF active control is used, is the operating frequency in the 27, 50, 53, or 72 MHz bands?
- If RF active control is used, has the system been ground tested?
- Does the flyer have a checklist or equivalent to arm the system prior to flight?

RI Name (Print):	RI Signature:	Date:
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