



The AeroTech Prize is an ongoing AeroTech-sponsored rocketry contest that can be held at NAR and Tripoli-sanctioned rocket launches at any time during the year.

Purpose: The goals of the contest are three-fold:

- Expand *public awareness* of hobby rocketry through increased launch activity & publicity
- Increase the level of *technical sophistication* in the hobby by promoting a performance challenge
- Offer *recognition, monetary and product rewards* to the most successful participants

The AeroTech Prize contest will be promoted and organized by the AeroTech Consumer Aerospace (AeroTech) division of RCS Rocket Motor Components (RCS), Inc. and its dealers.

Contest Description: The AeroTech Prize contest is an entry fee-based altitude contest using a single motor in a single-stage. Participants will be judged on the maximum altitude obtained from each particular class of rocket motor.

Manufacturer Role: AeroTech will create and maintain the contest rules and entry documents, and provide advertising, press releases and donate optional product prizes for the various local contests that will be held periodically. Other co-sponsoring manufacturers may participate in varying degrees.

Dealer Role: The local contests will be managed by selected AeroTech dealers. The dealers will be responsible for collecting entry fees, validating entry applications and disbursing the cash and product awards. Dealers managing each contest shall be rotated at various events based upon their interest communicated to AeroTech in hosting the contests and other factors. Dealers should provide an up-to-date list of events that they will be attending to AeroTech on a regular basis.

Motors. Propulsion used in the contest shall be AeroTech single-use motors or RMS™ reload kits loaded in AeroTech, Dr. Rocket or Rouse-Tech RMS™ motor hardware.

Altitude Determination. Rocket altitudes shall be measured using a commercially available hobby rocket altimeter. Altitude shall be verified by the event LCO or RSO and by the sponsoring dealer.

Contest Categories. The AeroTech Prize contest shall initially be divided into three (3) classes or categories:

- 'F' Class (40.01-80.00 N-sec)
- 'I' Class (320.01-640.00 N-sec)
- 'K' Class (1,280.01-2,560.00 N-sec)

The 'F' class is structured to permit all model rocket flyers, including those individuals under the age of 18, to participate in the contest. Altitudes can be expected to range from 3,000 to 7,000 feet.

The 'I' class is a high-power event designed to encourage Level 1 certified individuals to participate. Altitudes can be expected to range from 7,000 to 13,000 feet.

The 'K' class is a high-performance contest for Level 2 certified participants. Maximum altitudes can be expected to exceed 23,000 feet under ideal conditions.

Entry Fees. The following entry fees shall be collected for each event:

Table 1. Fee Table

Contest Class	Motor Class	Fee
Model Rocket	'F'	\$20.00
High Power Level 1	'I'	\$40.00
High Power Level 2	'K'	\$60.00

Prize Distribution. The dealer organizing the event shall be authorized to retain up to 10% of the total entry fees collected as a management fee. The remainder of the entry fees shall be distributed as prizes according to the following schedule:

Table 2. Prize Distribution Table

Number of Flyers	Places	Distribution %
2-3	1	100%
4-6	2	65-35%
7-9	3	50-30-20%
10-up	4	50-25-15-10%

Additional Prizes. AeroTech and other co-sponsoring manufacturers may provide additional product prizes, at AeroTech’s and/or the co-sponsoring manufacturer’s discretion, for each sponsored contest.

AeroTech reserves the right to modify the prize distribution percentages, contest rules and retain a management fee at any time in the future.

NOTE: At the discretion of the Tripoli Rocketry Association, a flight qualifying in a particular contest may also qualify as an official record under the rules of the Tripoli Records Committee.

Contest Rules:

1. General. Rockets shall be flown in accordance with the NAR or Tripoli safety code, as applicable, and in accordance with all local, state and federal laws & regulations.

2. Eligibility. Employees of AeroTech/RCS, sponsoring dealers, any co-sponsoring manufacturers and their respective families are not eligible to participate.

3. Fees.

3.1 Participants shall pay the entry fee specified in the Fee Table (Table 1) to the sponsoring dealer, commensurate with the contest class they are entering.

3.2 One entry fee per qualified flight shall be required. If a flight is disqualified, participants may make up to two additional flights without paying an additional entry fee.

3.3 Participants may make additional flights beyond those permitted in paragraph 3.2 by paying an additional entry fee for each qualified flight performed.

4. Rockets. Rocket construction shall conform to the standards set forth in the NAR and/or Tripoli safety codes.

5. Motors.

5.1 Only AeroTech single-use rocket motors or RMS™ reload kits loaded in AeroTech, Reloadable Systems/Dr. Rocket™ or Rouse-Tech/Monster Motor™ RMS™ motor hardware shall be used.

5.2 The AeroTech motor type used in each rocket shall conform to the power level authorized for the particular event class being entered.

5.3 Motors shall be ignited by legal means commonly used in the hobby.

6. Pre-Launch Inspection.

6.1 Rockets shall be inspected by the sponsoring dealer and event RSO and/or LCO prior to flight.

6.2 Rockets shall be inspected for the proper motor class and that the altimeter is in an "armed" state.

7. Signup Time Window. The sponsoring dealer shall set the signup time window for each contest. All flyers shall register for the contest within the signup time window to be eligible to participate.

8. Event Time Window. The sponsoring dealer shall set the event time window for each contest. All flights shall be flown within the event time window to be qualified.

9. Launching.

9.1 Rockets shall be launched in a manner that is in conformance with the standards set forth in the NAR and/or Tripoli safety codes.

9.2 Rod, rail, or tower launchers may be used.

9.3 No launcher shall be used that augments the performance of the motor in any manner or uses any means other than the propellant in the motor for lift.

10. Flight Qualification. A flight shall be considered to be qualified if it meets the following requirements:

10.1 The rocket meets all the requirements of the AeroTech Prize contest.

10.2 The rocket is flown within the event time window specified by the sponsoring dealer.

10.3 The flight is stable and otherwise meets NAR and/or Tripoli standards for a safe flight.

10.4 The recovery device deploys in such a manner that the rocket returns safely to Earth.

10.5 The rocket is recovered in such a condition that it may be flown again with no modifications other than minor repairs.

10.6 The altimeter displays or annunciates an understandable and unambiguous altitude reading.

11. Altitude Determination.

11.1 Rocket altitude shall be measured using a commercially available hobby rocket altimeter.

11.2 Rocket altitude shall be verified by the event LCO or RSO and by the sponsoring dealer, and recorded on the entry form by the dealer.

12. Prizes. Prizes shall be awarded to winning participants according to the place and prize distribution percentage in the Prize Distribution Table (Table 2).

13. Dealer Disqualification. Any sponsoring dealer found to be violating the rules of the contest or engaging in fraud in the administration of a contest shall be removed from consideration as a sponsoring dealer for any future AeroTech Prize event.

14. Participant Disqualification. Any participant found to be violating the rules of the contest or engaging in fraud in the conduct of a contest shall be removed from eligibility as a participant in any future AeroTech Prize event.

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Official Participant Entry Form

Event name: _____ Date: _____

Sponsoring dealer: _____

Participant Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Age: _____ NAR number: _____ TRA number: _____ Cert. Level: _____

Event class (check one): Model Rocket ('F') HP Level 1 ('I') HP Level 2 ('K')

Fee paid (check one): \$20.00 \$40.00 \$60.00 Dealer initials: _____

Motor type used: _____ Altimeter brand and model number: _____

Flight number 1

Pre-launch rocket inspection Dealer initials: _____ RSO/LCO initials: _____

Post-launch rocket inspection Dealer initials: _____ RSO/LCO initials: _____

Qualified? _____ Qualifying altitude: _____ feet

Flight number 2

Pre-launch rocket inspection Dealer initials: _____ RSO/LCO initials: _____

Post-launch rocket inspection Dealer initials: _____ RSO/LCO initials: _____

Qualified? _____ Qualifying altitude: _____ feet

Flight number 3

Pre-launch rocket inspection Dealer initials: _____ RSO/LCO initials: _____

Post-launch rocket inspection Dealer initials: _____ RSO/LCO initials: _____

Qualified? _____ Qualifying altitude: _____ feet



Sponsoring Dealer Launch Attendance Form

Sponsoring dealer: _____

Owner Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Cert. Level: _____

NAR number: _____ TRA number: _____ Email: _____

Launch Name	Date(s)	Event Classes (indicate those you will be conducting)		
		MR ('F')	HP Level 1 ('I')	HP Level 2 ('J')

Please fax to AeroTech Consumer Aerospace at (435) 865-7120

NOTE: Dealers interested in sponsoring a contest at any particular launch event will be rotated based upon their desire communicated to AeroTech in hosting the contests, the range of event classes that the dealer will be able to conduct and their level of success in hosting any previous contests.

Dealers should provide an up-to-date list of events that they will be attending to AeroTech on a regular basis, in order to be considered for the maximum number of contests.