



BRITISH MODEL FLYING ASSOCIATION

CONTEST RULES

SECTION 8

SPACE MODELS

To be read in conjunction with the General Rules, Sections 1 and 2,
which are available free of charge from the BMFA

Effective January 2014

Supersedes January 2013 Issue

CONTEST RULES - SECTION 8

SPACE MODELS - 2014

CONTENTS

8.0	BMFA General Rules.....	2
8.14	BMFA National Classes.....	3
8.14.1	Egg Loft Duration.....	3
8.14.2	“Lamprey” Parachute Duration	4
8.14.3	UK Sport Scale	5

NOTES:

Specifications and Class Rules for all FAI classes (S1 through to S12/P) have been deleted from this Rule Book as they are a direct copy of The FAI Sporting Code, Section 4 Aeromodelling, Volume SM. This can be downloaded from www.fai.org/fai-documents# or www.fai.org/ciam-documents. It is also available direct from BMFA Head Office.

New Rules

For ease of reference, new rules and rule changes are denoted by a side bar, thus.

Changes

There are no changes in this volume other than the deletions noted above..

Gender

Words of masculine gender should be taken as including the feminine gender unless the context indicates otherwise.

8.0 BMFA GENERAL RULES

8.0.1 UK Motor requirements

Competition motors for all events are available from FAIR. Contact is via the BMFA office.

8.0.2 Records

BMFA registered UK records are available for all FAI and BMFA classes.

Note that UK records may be claimed for flights made abroad by UK citizens.

8.0.3 Jettisoning of Parts

A flight will be disqualified if any part of the model, as launched, becomes detached. The exceptions to this rule are for S4 (boost glider) where the engine(s) shall be ejected in accordance with 8.2.4.1 and 8.2.4.2, S7 (scale) and any models that are staged. In all cases, the in-flight discarding of ejection pistons and/or wadding will result in the flight being disqualified.

8.14 BMFA NATIONAL CLASSES

8.14.1 EGG LOFT DURATION

8.14.1.1 Object

To launch and recover a model rocket carrying a fragile payload, whilst recording the highest possible airtime under a parachute.

8.14.1.2 Model

Model design and construction is unrestricted

8.14.1.3 Motor

Maximum motor impulse shall be 10Ns ("C" power), using UK homologated 18mm propellants.

8.14.1.4 Payload

Shall be a fresh chicken's egg which must be provided by contest organisers. Eggs must be marked by the organisers to facilitate identification.

8.14.1.5 Scoring

- (a) The CD will set a maximum flight time (max) before the start of the competition.
- (b) A Model making a max need not be recovered.
- (c) A model not making a max shall be recovered for the egg to be inspected for breakage. The Flight score is to be Zero if the egg is damaged in any way or the model is not recovered.
- (d) Three flights allowed, all to be scored, the highest total scores to rank the flyers.
- (e) If any competitors finish the three rounds in equal first place with identical scores, they will be allowed an additional unlimited fly-off flight to determine the winner.

8.14.1.6 Records

For records purposes, any egg loft competition flight may be timed to the ground or out of sight (OOS) at the request of the competitor.

8.14.2 “LAMPREY” PARACHUTE DURATION

8.14.2.1 Object

to launch and recover a simple model rocket under a parachute of restricted diameter, in order to record the highest airtime. [Rules are based on those employed by MG RAK - Aeroclub der Schweiz]

8.14.2.2 Model

Model design and construction is unrestricted

Overall LengthNot less than 590 mm

Body Diameter.....At Least 33.8 mm for 450 mm of the overall length

Note: This coincides with a commercially available Estes BT-55 tube.

Minimum dry airframe weight (less motor and recovery equipment) 50 grams

8.14.2.3 Motor

Maximum motor impulse shall be

Class 1 2.5Ns (‘A’ power),

Class 2 5Ns (‘B’ power)

Motors must be UK homologated propellants, typically Estes.

8.14.2.4 Parachute

Maximum parachute diameter to be 750mm.

8.14.2.5 Scoring

Three flights are allowed, all to be summed and be recorded as the competitor’s score – the highest scores to rank the flyers.

There is no maximum flight time (max).

8.14.3 UK SPORT SCALE

8.14.3.1 Object

To fly a model rocket that closely resembles an existing or historical guided missile, rocket vehicle, or space vehicle.

8.14.3.2 General

- (a) If the entry is a scale model of a multistaged vehicle, it may be designed so that one or more of the upper stages are inoperable dummies.
- (b) The competitor must have modelled one particular serial-numbered prototype.
- (c) Data must be supplied to substantiate the model's adherence to scale in shape, colour, and paint pattern.
- (d) Scale models of rockets, missiles or space vehicles that are not fin-stabilised may be fitted with transparent fins.
- (e) Plastic kit conversions are not allowed

8.14.3.3 Motors

Maximum allowable total impulse 160NS.

Maximum engine size allowed 80 NS.

8.14.3.4 Number of Flights

Each entry must make a stable flight, and two (2) opportunities will be available to the competitor for this purpose.

8.14.3.5 Judging and Scoring

- (a) Models will be judged for scale qualities in flight condition minus space model motors, from a minimum distance of one metre.
- (b) The Judges may then closely examine the model to judge it for craftsmanship
- (c) The Judges will award points up to the following maximum scores:
 - Adherence to scale 200
 - Finish, Colour etc. 200
 - Degree of difficulty 100
 - Workmanship 300
 - Degree of difficulty 200
 - Flight Characteristic 300

BRITISH MODEL FLYING ASSOCIATION

SMAE Ltd

Chacksfield House, 31 St Andrews Road, Leicester, LE2 8RE

Telephone - 0116 2440028 Fax - 0116 2440645

E-Mail - admin@bmfa.org Website - <http://www.bmfa.org>