

Edit note: Electro Rubber LMR Rules (Electro Rubber) is a Championship Event, replaces rule #4 Wakefield event from previous SAM rules book.

4: Electro Rubber LMR entries shall be any SAM approved Rubber designs meeting current SAM cutoff dates powered by an electric motor. Landing gear is as original design functionality. Scaling is allowed. Minimum ready to fly weight of the model is 12 oz. Model may be hand launched. Motors are limited to a Hacker A10-15S without modification. Folding props allowed as well as prop savers. Batteries are limited to 2 series cell lithium chemistry cells of any capacity. Flight time starts on aircraft release from hand launch and terminates when aircraft contact the ground or ground-based object. The motor run time limit may be reduced at the discretion of the CD. The motor may run only during the first 90 seconds of the flight. The Contestants score will be the best two of three attempts. A Max flight time is 10 minutes.

Edit note: Following goes into "Special events" part of rulesbook

Special Events (Provisional)

9: Old Time (Vintage) Glider Rules:

Vintage Glider entries shall be a model Glider designs meeting current SAM cutoff dates. The Design must retain the original outline, and construction method, but may be scaled, and or modified for being practically steered, by Radio Control.

Launching may be conducted by Hi-Start, Winch, or Electric Motor Power. The Maximum Towline length is 700 feet.

Gliders using the Electric Motor launch option must be fitted with a SAM approved Altitude Limiter unit, that will Limit motor run Launch Altitude to 200 meters Maximum or a motor cutoff time of 30 seconds whichever comes first. There shall be no restrictions on Electric Motor, Battery Pack, or Propellers. The motor, should be mounted in such a manner as to retain the original fuselage lines, however Power Pod units mounted above the wing are a recognized option.

The Contest Flight attempt, is timed from the release of the Glider, with motor running, and ends when the Glider touches the ground. The Maximum flight time will be 10:00 minutes duration. There is no precision measured landing, however, the Glider must touch down in the designated landing zone for the flight to count. The Contestants score will be the best two of three attempts. Max flights is

10 minutes. In the event of a tie, the Contest will be settled by an unlimited time Flyoff, between the Tied Competitors.

10: Electric Altitude Limited Old Timer EALOT rules:

Electric Altitude Limited Old Timer (EALOT) entries shall be Gas Powered Old Timer designs meeting current SAM cutoff dates, having a minimum 8 ounces per square foot of plan-form wing area and powered by an electric permanent magnet brushed or brushless motor. Scaling is permitted. Propellers may be driven directly or indirectly via a gear or belt speed reduction drive. Protective folding propellers restrained from folding in flight are acceptable. No restrictions on Battery sizes. Battery chemistries are restricted to LiXX and NiXX. Motor must conform to SAM Electric Rules. Power flow from the battery to the motor may be controlled by any method. Models must ROG if design allows for it. The model **MUST** use a SAM Approved Altitude Limiter to shut off the motor at 200 meters above launch point. Maximum motor run is limited to a single continuous time of 30 seconds. Flight time starts on aircraft release from ground and terminates when aircraft contact a ground-based object. The motor run time limit may be reduced at the discretion of the CD. The Contestants score will be the best two of three attempts. A Max flight time is 10 minutes

11: Electro R/C Replica 36" Rules

1. Not to exceed 36" in projected wingspan
2. Replica model of any fuel-powered model kitted or built from plans designs meeting current SAM cutoff dates
3. Motor - any electric brushed or brushless in-runner or out-runner
4. Battery - a 2-cell lithium polymer battery of any capacity
5. Propeller - fixed, no folding propellers
6. Landing Gear - Two-wheel landing gear may be substituted for a single wheel. No landing gear required if not on original.
7. Construction - Construction is at the discretion of the builder but no foam or 3d printing.
8. Airfoil - Airfoils may be modified, but must retain the characteristic shape of the original,

Motor Run and max- Motor run is 120 seconds. A restart of the motor after 120 seconds results in a zero score for that flight. Flight max is 10 minutes.

The model's score is the sum of the best two of three flight attempts, timed from the release of the model.

In the event of more than one competitor achieving two maximum flights winner may be determined by a fly off. The motor run time limit may be reduced at the discretion of the CD.

Addendum

Information covering the SAM approved Altitude Limiter device information

For the events EALOT and Vintage Glider The required Altitude Limiter device is:

Soaring Circuits Model ID is "CAM", with 100, 150, 200 meter presets is the approved unit .

Contact Soaring Circuits directly for this device.

Made in USA by Soaring Circuits

ON the WEB as: soaringcircuits.com