

## GRAFFITI COMBAT (35 size) REVISED RULES

The intent of Combat Graffiti, is to build quality, authentic, pre 1964 combat models and fun-fly them in “gentlemanly” combat matches.

This is not just a Combat Event. If you think so, you will be disappointed; it is a “builder’s event”.

Models will be primarily judged on conformance to the original plan form and equipment, appearance and finish quality. Flying points are secondary. See “Scoring” below for points system.

Since the quality of models is expected to be high, aggressive flying that may unnecessarily endanger models and safety, will not be tolerated and matches may be stopped.

Models can be for any .19 to .36 engine and must fly on 60 foot lines. See “Engine” & “Lines” specifics below.

Additionally, period costume will be encouraged as well as trim schemes that were popular to that period.

Remember, this is a “FUN” event. Everyone who enters will be a “winner”.

### **Specific Rules:**

#### **1/ Mechanical;**

1.1 Engine: Any .19 to .36 c.i.d. diesel or glow engine that was preferably designed, manufactured and publically available in or before 1963. Any engine may be substituted but no “motor” points will be awarded. Models must remain **under 75 mph**. See “Speed Limit” below.

1.2 Fuel System: Any fuel system may be used.

1.3 Propeller: Any propeller that meets AMA safety specifications may be used.

1.4 Mufflers: Encouraged but not “required”.

1.5 Speed: See “Speed Limit” section below but Maximum is 75mph.

#### **2/ Aircraft;**

2.1 Period: A model that was designated for combat use and published, or kitted and sold prior to Dec 31<sup>st</sup>, 1963.

2.2 Design Allowances: Models must be an accurate plan view of the original. Construction must follow the original intent.

The following alterations are allowed but the closer to the original construction, the more points you can earn.

-Minimal structural reinforcements with modern materials.

-Spars may be moved, modified or eliminated.

-Any airfoil may be used. (if you use original airfoil, you must show proof for max points)

-Modern covering may be used.

-Heavier lead-outs and other safety aspects will not be penalized.

The following alterations or substitutions are not allowed.

-Foam construction.

-Exterior controls.

2.3 Number of Models: Flyers may enter any number of models but must select one model to fly. So make it last! Static points gained with that model only, are allowed to be carried forward into flight rounds.

-Substitutions are at the discretion of the Judge.

### **3/ Safety;**

3.1 Pull Test: Current AMA or MAAC pull test will be conducted on all flying models.

3.2 Lines: All models shall use 60 ft .018 diameter braided steel lines plus or minus 6".

3.3 Thong: All flyers shall use an AMA or MAAC approved safety thong.

-It may not be removed until your model is down.

**-Failure to use a thong while flying, at any time, will result in event ejection.**

3.4 Speed Limit: For field safety reasons, a Maximum of 75mph will be strictly enforced.

-Suspect models will be timed prior to engagement and the match will be stopped.

-Offenders will be given one chance to rectify their speed.

-That is 7.2 seconds for two laps flying at arm's length.

3.5 Pit Crew: Two pit men and a pilot are allowed.

-Alternatively, he must stand next to engine starter until the engine is running.

3.6 Combat Site:

-Contestant must start his own engine.(**electric starters allowed**)

Pilot's Circle will be 3 foot radius, clearly marked, pilots must stay inside this circle.

-The center marshal may stop the match to relocate pilots.

Pitting Circle will be 70 foot radius, clearly marked.

-Starting, maintenance or re-starts must be done at that line, or beyond.

### **4/ Scoring;**

Notes on scoring:

This is a fun event intended to "showcase" vintage combat models. It is NOT just about flying 35 size combat. Flyers cannot "win" using a poorly constructed and film covered model. In fact,static points may end a match-up before it is flown.

As an example; If a pilot with an authentic, well-constructed, dope finished model is drawn against a poorly constructed model covered with film, the flying will not take place. Not enough points can be achieved in flight to overcome the deficit. The well-constructed model wins, and moves on. The poorly constructed model can only fly, if drawn against a similar model.

Static Scoring:

0-25pts Original color scheme or common era schemes.

0-35pts Quality of model appearance & original construction.

0-30pts Finish.

A period dope finish –max 30pts.

A iron on finish –max 10 pts.

30pts Period engines. (from that era)

10pts Bonus points for motors identified on model's plan.

15pts Bonus points for period propeller used in flight.

20pts Bonus points for using the original airfoil.

35pts Bonus points for models in or before 1960.

20pts One time bonus for the flyer using the most unique airplane.

15pts One time bonus for the flyer with the ugliest design.

(poor construction or finish does not count)

10pts One time bonus for the best costume. (clothing from that era)

**It is the flyer's responsibility to provide dated plans or similarly authentic documentation to illustrate eligibility for aircraft "Bonus" Static Scoring points. (Think of it like scale documentation.)**

Match Scoring:

The Match:

Total time in the match is 4 minutes. This is from the time the signal is given to start engines until the signal to stop the match.

- **Electric starters may be used.**

A second "start" signal will be given by the center marshal, approximately two full laps after the second aircraft is in the air, at which point pilots may engage. Pilots are required to fly level during this time.

Crews will be allowed time to warm up their engines at the circle prior to the match.

Match Points:

**Kills are not allowed. Any flyer that makes a kill will lose all flying points.**

Streamer cuts will be awarded 35 points each with a maximum of two cuts per flyer, per match. If both flyers have two cuts, the match will be stopped. Flying one pass, up the streamer, producing confetti is only considered as one cut.

Flying time:

One point per second of air time during the allowable match will be awarded unless the match has been stopped. Maximum 240 points.

Totals:

Each match winner is decided by a total of his static points and his match points.

The winner moves on.

Each match starts afresh with just the flyer's Static points.