

4.11 Streamer cut

A contestant that cuts streamer off an enemy A/C in the air, gains +100p. If a contestant manages to have his own streamer uncut during a fight, he is given +50p. If having an enemy streamer stuck to the model, the following rules apply: A cut made to a stuck streamer, counts as a cut on enemy streamer, and the contestant making the cut gains +100p. If having a stuck streamer cut by an opponent, the contestant does not lose his streamer-points. Only cuts made to the streamer actually attached to the contestant's model count.

4.12 Collision

If an A/C collides with a different A/C while airborne during a fight, this counts as cutting streamer off an opponent. All A/C involved in a collision thus gain +100p. If streamer cut and collision occur at the same time, only collision points are given.

4.13 Tie

If the final points are equal for two pilots, the one with highest points in the final wins. If it is still equal, the pilot with the highest points from one single fight (except from the final) in the contest wins. If it is still equal, the pilot with the biggest single point throughout the competition wins.

4.14 Frequencies

Contestants must be able to change between at least two frequencies. When a frequency collision occurs in the final, the contestant with the lowest total score shall change frequency. This change must be given extra time, so that the preparation part of the final does not start until the change is done. It is the contestants responsibility to avoid frequency-collisions at changes from the given frequency.

4.15 Protest

Any contestant can make a protest against judges decisions. Protests shall always be decided by taking a ballot among the contestants. This should be done as soon as possible. A protest charge should be taken. If the protest is sustained, the protest charge is returned.

4.16 Team competition

A team competition may be held between two or more teams. Teams are then divided and fly against each other. This may be done in several ways, not explained herein.

5 Judges

5.1 Main judge

The *main judge* is responsible for the overall timing of the contest. He is also responsible for security during the fights, and to keep contestants behind the safetyline when A/C are airborne.

5.2 Pilot judge

The *pilot judge* should note points for his pilot on a scoreboard, and keep record of his pilots flight-time. He should also check his pilot's streamer after the fight.

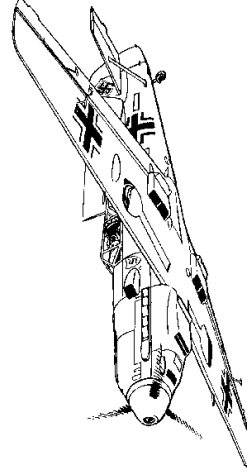
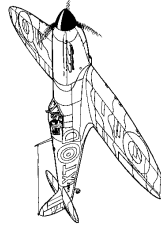
6 Points

The following system of points apply. Note that no decimal points are given.

6.1 Minus/plus points

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Crossing safety line (applies all day)	-200
Own streamer uncut during fight	+50
Cutting streamer off/collision with -enemy A/C	+100
Flight-time, per 3 seconds	+1



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1999 Competition rules

RC 1/12 Scale

AIR COMBAT

1. R/C Air Combat

1.1 About R/C Air Combat

The game *R/C Air Combat* is designed to recreate the air wars of WW II in a historical perspective, in a enjoyable, safe, scale competition that will be interesting for spectators and challenging for the contestants.

1.2 General rules

All FAI regulations covering the R/C-flier, his plane and equipment, shall apply to this event, except as noted herein. The arranging group and the main judge, are responsible of frequency control during the event.

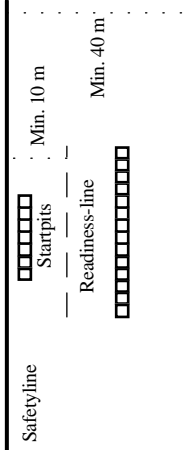
1.3 Safety

Safety matters have always highest priority. Any conduct by a contestant deemed by the main judge or contest arranging group to be hazardous will be cause for immediate disqualification of the contestant from the event.

2. Contest site

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Flight-area



2.1 Figure

2.2 Flightarea

The flight-area is always in front of the safetyline. During all day of the contest, all A/C must fly in front of the safetyline (as soon as the safetyline is drawn up). Note that minuspunts (-200p) are given all day, if A/C crosses the safetyline (including test-flights before, in-between and after fights).

2.3 Startups and readiness area

The *startups* are placed with three meters in-between. The *readiness area* is placed behind a line approximately 10 meters behind the startups. At readiness, pilots and helpers must be behind this line.

2.4 Audience

The audience should be kept at a safe distance (at least 40m) behind the safety-line, or be protected by protective devices, such as nets, etc.

3 Equipment

3.1 The model

The model must be a scale or semiscale A/C of a warbird built between 1935 and 1945. The scale is 1:12 and the wing span and fuselage length may not deviate more than +/-5% from scale. All other measures may not deviate more than 2cm from scale. The fuselage length is measured in-between the leading edge and the rear edge of the fuselage, or the backside of the propeller(s), if any. The wing thickness must be 10% or more, measured at the thickest point of the chord. No protruding devices may exist on the front leading edge of the wing, stabilizer and fin. The A/C must look similar to the original A/C, including painting and decorations. The competitor should bring a published 3-plane view of the original A/C-type, in at least 1:72 scale, to the competition to show that his A/C is accurate according to measures. The contestant does not have to be the builder of the model.

3.2 Engine

Only standard engines may be used. The engine may not be modified in any way, with an exception for shims. The contestant must be able to shut-off the engine in the air, whatever the attitude of the A/C. Engines that are used in ducted-fans, may use tuned-pipes, others may not.

3.3 Engine size

If the original A/C had a span of at least 12 meters, and the model has a span of at least 1 meter, the model may use a .21 engine. Other models may use a .15 engine. Multi-engined A/C may use .15 engines, and the model must have the same number of engines as the original A/C. Single engined ducted fan models may use a .25 engine. Electrical engines may (for the moment) be used without limitations. The original A/C engine must have a take off power of at least 500hp.

3.4 Model weight

The following table applies on model weights:

Engine (max)	Model weight
.10	500-900g
.15	700-1200g
.21	1000-1500g
Electrical engine	700-1500g
Single ducted fan	700-1500g

Multi-engined max weigh is 1200 gram + 350 gram per additional engine (1550g for twin-engined, etc).

3.5 Streamer

The *streamer* should be 12 +/-0.5m long and max 12mm wide.

3.6 Helmet

A *helmet* must be used by any person that is in front of the audience-line. The helmet should cover the upper part of the head and put up with a direct hit of an A/C.

3.7 Radio equipment

Every contestants radio-equipment should be range-checked before the contest.

4 The contest

4.1 Structure

Each *fight* consists of at least two and at most seven pilots that fly against each other. When all pilots have flown exactly one fight, this is called a *round*. The next round, flight-lists are changed so as many pilots as possible can meet each other. A contest has three rounds and a *final*. In the final, the seven pilots with the highest scores meet. The pilot who has most points after the final wins the contest.

4.2 Fights

A fight is divided into three parts: The *preparation, readiness and flight-part*.

4.2.1 The preparation-part

The length of the preparation part may be set by the arranging group, but is recommended to be 7 minutes at smaller contests. It is marked by the main judge blowing three signals in his whistle and calling out "Seven minutes to readiness". During the preparation-part testflights may be performed. 30 seconds before the preparation-part ends the main judge blows two signals in his whistle and calls out "30 seconds to readiness".

4.2.2 The readiness-part

Readiness follows immediately after the preparation-part, and is marked by the main judge calling out "Readiness". During readiness all pilots and helpers must be behind the readiness-line. All equipment must remain in the startups, and engines may not be running. Readiness may vary in length, upon the main judges decision.

4.2.3 The flight-part

The flight-part starts when the main judge blows one long signal in his whistle. Pilots and helpers may now run to their A/C, and get them airborne. The flight-part ends when the main-judge blows one long signal in his whistle. The pilots may now fly freely in front of the safetyline, and land at their own discretion. As soon as all A/C has landed, the next preparation part may start.

4.3 Helpers

Every contestant may have one helper.

4.4 Launching

The A/C must be launched in front of the safetyline

4.5 Flight-time points

One point per three seconds airborne, is given. Maximum flight-time is seven minutes.

4.6 Restarts

An unlimited number of restarts are allowed during a fight. When a pilot attempts to fetch his plane from the flight-area during the heat he must get a permission from the main judge. The main judge then gives an alarm and ensures that all the pilots are aware of the situation.

4.7 Repaired A/C

A/C that have been repaired during contest should be examined by the main-judge before entering contest again.

4.8 Change of A/C

The same A/C must be used throughout one fight. A new A/C may be used the next fight. The model is defined as main parts of fuselage and wing.

4.9 Crossing of lines

A crossing is made either the A/C is airborne or is moving on the ground. When airborne the A/C must be clearly over the line. On the ground, the engine counts. If a model has several engines, any engine crossing the line counts.

4.10 Lost streamer

It is the contestants responsibility to get airborne with a streamer of appropriate and full stretched length attached to his A/C. After landing, missing or entangled streamer counts as lost (no +50p given), except if the streamer was lost during landing, which must be proved by finding the missing streamer.