

## ANNEX 4G

### **CLASS F2E - COMBAT MODELS WITH COMPRESSION IGNITION ENGINES**

The rules for F2E are the same as those for F2D except for the variations as shown.

#### **4.G.1. Definition of a Combat Event**

See 4.4.1

#### **4.G.2. Definition of a Combat Model Aircraft**

- a) Model aircraft in which the propulsion energy is provided by a piston motor and in which lift is obtained by aerodynamic forces acting on surfaces which remain fixed in flight, except for control surfaces.
- b) The longitudinal centre line shall be defined as the axis of the propeller.

#### **4.G.3. Combat Site**

See 4.4.3

#### **4.G.4. Competitor**

See 4.4.4

#### **4.G.5. Characteristics**

See 4.4.5 except for the following variations:

- c) The motor must run on a suction fuel feed only, with the fuel tank mounted such that the entire fuel tank is outboard of the longitudinal centre line.
- d) The motor shall be naturally aspirated via a single round venturi with a maximum effective diameter of 3,5 mm.
- j) Fuel is not restricted.
- k) The propeller must be of 190 mm minimum diameter and 150 mm minimum pitch from a blade radius of 40 mm to the tip and constructed from a thermoplastic material (glass filling is allowed).

#### **4.G.6. Technical Verification**

To be tested before each heat:

- a) The set of lines must be checked for length and diameter.

The line length is measured from the inboard face of the grip of control handle to the longitudinal centre-line of the model aircraft.

A pull test shall be applied to the assembled handle, control lines and model aircraft. The pull test shall be equal to 15 kgf.

The processing officials or judges may ask the competitor to change the lines if there is any doubt about the line quality, such as kinks, curls, stress or rubbing marks.

- b) The intake opening shall be checked with a simple plug gauge of diameter 3,55 mm.
- c) The safety strap and safety wire may be pull tested with a load equal to 15 kgf.

#### **4.G.7. Number of Model Aircraft**

- a) Only one model aircraft specification certificate is required for each design of model aircraft presented by each competitor.
- b) Each competitor shall be permitted one model aircraft, one handle, one pair of lines and one engine in each combat heat.

#### **4.G.8. Streamer**

See 4.4.8

#### **4.G.9. The Heat from Start to Finish**

See 4.4.9 except for the following variation:

- e) A first signal, given by the Official Timer, shall signify the beginning of the 60 seconds period when the mechanic(s) or the pilot have the opportunity to start, run and adjust their motor.

Rule 4.4.9 m) does not apply to class F2E

#### **4.G.10. Scoring**

See 4.4.10 except for the following variation:

- a) Scoring shall start at the signal to launch and continue during the heat (maximum 4 minutes).

#### **4.G.11. Reflights**

See 4.4.10 plus the following addition:

- d) In the event of a model fly-away, as a result of the lines being broken by his opponent's model or by a line tangle.

#### **4.G.12. Penalties and Disqualifications**

See 4.4.12 except for the following variations:

##### **A. A competitor will receive a penalty of 40 points:**

- c) if the mechanic(s)/pilot do not immediately, or after a clearing a line tangle, withdraw a grounded model aircraft to the pitting area prior to servicing it.
- e) when he receives his first yellow card (Subject to 4.4.9.n.).

##### **B. A competitor will receive a penalty of 100 points:**

See 4.4.12 B except that silencer rules do not apply.

##### **C. A competitor will be disqualified from the heat:**

See 4.4.12 C except that 4.4.12 C m) & s) do not apply.

#### **4.G.13 The Use of Video Equipment**

See 4.4.13

#### **4.G.14 Individual and Team Classification**

See 4.4.14

#### **4.G.15. Judges and Timekeepers**

- a) The organiser shall appoint a panel of three CIAM approved judges (for Open Internationals needs only one to be CIAM approved) and who shall be of at least two different nationalities. The judges must have at least one language in common.
- b) Two timekeepers/scorers shall be allocated to each competitor.