

IAC Official Contest Rules 2014

Addendum to Contest Rules Rev. 25.0 2014 for use during Contest Season 2014

By: The IAC Rules Committee

April 24, 2014  
April 28, 2014

Your IAC Board of Directors has determined that certain of the edits made to the published 2014 Rules constitute new rules not passed by the Board. A new Official Contest Rules 2014 will be available by mid to late May 2014. Until that time, please refer to **Official Contest Rules Rev. 25.0 2014, and to this Addendum.** Listed below are the corrections to the Rules Rev. 25.0 2014 which directly affect scoring of pilots during the 2014 Contest Season:

**Changes to Judge’s Quick Reference:**

**Hard Zero (HZ)**

**7.3 & others**

- Omitted figure
- Added figure
- Wrong figure
- Wrong direction on X axis (applies to entire figures or any part of a figure drawn on X axis)
- Improper exit direction (same or opposite) relative to entry on a Y-entry / Y-exit figure
- <<Add the following Hard Zeros>>
- Any deviation from the prescribed entry/exit direction of 90 degrees or more
- Any other single deviation in geometry /flight path/attitude/rotation of 90 degrees or more
- Tail slide less than 1/2 fuselage\* 8.5 Family 6
- No pause in hesitation roll 8.5 Family 9.2-9.8
- No visible nose displacement in snaps 8.5 Family 9.9 - 9.10
- No autorotation in spins and snaps 8.5 Family 9.9 - 9.10 & 9.11 - 9.12
- Snap roll in rolling turn 8.5 Family 2

\*Glider rules vary. Consult the IAC Official Contest Rules.

**Numeric Zero (0.0)**

- Accumulation of 10 or more points in downgrades
- ~~Hammerhead slides vertically before any pivot 8.5 Family 5 <<Delete>>~~

- <<The following are moved to Hard Zeros>>
- ~~Tail slide less than 1/2 fuselage\* 8.5 Family 6~~
- ~~No pause in hesitation roll 8.5 Family 9.2-9.8~~
- ~~No visible nose displacement in snaps 8.5 Family 9.9 - 9.10~~
- ~~No autorotation in spins and snaps 8.5 Family 9.9 - 9.10 & 9.11 - 9.12~~
- ~~Snap roll in rolling turn 8.5 Family 2~~

**Roll Rate Change in Family 9** 8.5 Family 9

- Roll rate change 1 point for each occurrence <<Unchanged>>
- Roll stoppage 0.0 Hard Zero (HZ) (Family 9.1 only) <<Note: NOT a 0.0>>

**Judge’s Quick Reference – Glider**

**Hammerheads** 8.5 Family 5

A small amount of wing slide is common. Wing slide is not an automatic zero and should receive a deduction proportionate to the severity. ~~However, a vertical slide before any pivot must receive a numeric zero.~~ <<Delete lined-out text>>

## Glossary and Definitions

**Zero, Numeric:** The mark used by a judge to indicate zero points as a result of ~~a subjective judgement.~~ an accumulation of downgrading points. The Numeric Zero is not subject to the majority rule and stands just as any other numeric mark does. The Numeric Zero is indicated on the scoresheet with the notation, "0.0."

**4.16.2 (f) Add:** A glider pilot will receive an additional interruption penalty if he or she gains altitude through intentional thermaling during an interruption unless the interruption was initiated by the Chief Judge, or traffic in the box. Attempted thermaling is determined by the pilot turning more than a total of 540 degrees (in either direction) during the interruption.

**Table 4.17.2 Penalties, Glider** <<Revised text removed Apr. 28, 2014. Rule book is correct as-is.>>

**6.16 (h) Change to:** Penalty: If the Presentation K factor is absent or incorrect, the presentation grade shall be zeroed.

### 7.3 ZEROS

A judge may mark two types of zeros based on the reason for giving the zero:

(a) Hard Zero. Hard zeros are given for matters of fact or when the judge perceives that the pilot has failed to meet a relevant criteria for a maneuver that is not a clearly demonstrable matter-of-fact, (See 7.3.1), and are annotated on Form A with the mark "HZ". The judge should state the reason for applying the HZ in the Remarks column. <<Add underscored text>>

(b) Numeric Zeros. The figure is basically correct, but ~~either~~ contains a number of smaller errors that cause the grade to fall to zero by accumulation of downgrading points. ~~or the judge perceives that the pilot has failed to meet a relevant criteria for a maneuver that is not a matter-of-fact (See 7.3.2).~~ This is a Numeric Zero and is annotated on Form A with the mark "0.0". The judge should summarize the reasons for applying the numeric zero in the Remarks column. <<Delete the lined-out text>>

#### 7.3.1 A Hard Zero (HZ) Will Be Given For:

<<Replace 7.3.1 (c) with:>>

**7.3.1(c)** Flying a figure which does not conform to the drawing held by the judges for marking purposes (Form 'B' or 'C') including any deviation from the prescribed entry/exit direction of 90 degrees or more, or any other single deviation in geometry/flight path/attitude/rotation of 90 degrees or more. Note: When a figure is added to a sequence, Rule 7.3.1(b) applies.

<<Add 7.3.1(l) ("ELL"):>>

**7.3.1 (l)** The judge perceives that the pilot has failed to meet a relevant criteria for a maneuver that is not a clearly demonstrable matter-of-fact (Ref. Chapter 8). Examples: "Did not spin (HZ), "did not snap (HZ), "did not slide" (HZ), "snap during rolling turn" (HZ), "no points" (HZ).

#### 7.3.2 A Numeric Zero (0.0) will be given for:

(a) Cumulative deductions of ten (10) or more points.

~~(b) A matter of subjective perception, rather...~~ <<Delete this entire paragraph.>>

**Discussion:** The intent of the submitter of the Proposed Change was to allow a figure grade of 0.0, arrived at by cumulative deduction of points, to stand, rather than being subject to the rules of minority zeros. This will be achieved by marking all Hard Zeros, as listed in 7.3.1, as "HZ", and by marking all (cumulative) Numeric Zeros as "0.0". The Rules Committee initially misinterpreted the intended consequences of this Numeric Zero. Pilots and Judges MUST revert to year 2013 and prior concepts of zeros; anything which was a zero in 2013, except for the cumulative Numeric Zero, is now a Hard Zero

(HZ), including such observed errors as a snap roll during a rolling turn (HZ), a missing point on a hesitation roll (HZ), failure to slide at least ½ fuselage length in a tail slide (HZ), and failure to demonstrate both the nose departing the flight path and autorotation in a snap roll (HZ).

### **Changes within Chapter 8 Criteria for Judging Aerobatic Figures**

#### **Family 2 Rolling Turns under Downgrades:**

3. All rolls in a rolling turn are slow rolls. If a snap roll is performed, the figure is given a ~~Numeric Zero 0.0~~ a Hard Zero (HZ).

#### **Family 5 Hammerheads (see pages 8-14 to 8-16)**

Under Judging Criteria, item 6, ...As long as the airplane's center of gravity CG does not slide vertically downward before any rotation about the yaw axis begins, if the CG remains anywhere within one-half wingspan of the ideal pivot point, no deductions will be made (Fig. 8.5.11(b)). ~~However, if the aircraft slides directly backwards without any motion around the yaw axis, the figure is now a tail slide, not a hammerhead, and must be given a Numeric Zero (0.0).~~ Note that the deduction for any CG pivot error applies only to the yaw axis. Any motion....<<Remainder unchanged>>

#### **Family 6 Tail Slides**

In first paragraph on Page 8-16, ...or the aircraft pivots without sliding backwards the required amount, the grade is a ~~Numeric Zero (0.0)~~. Hard Zero (HZ).

#### **Family 9.9 Positive Snap Rolls**

Second paragraph Page 8-26 ...However, if both the required pitch change and autorotation are not clearly seen, the figure must be given a ~~Numeric Zero (0.0)~~. Hard Zero (HZ).

Third paragraph Page 8-26 continuing to 8-27 ... Either shortly after or simultaneously with the pitch change, the aircraft must be seen to yaw, initiating a stall of one wing and the rapid onset of autorotation. If the judge considers that a proper snap has not been initiated, then he must give a ~~Numeric Zero (0.0)~~. Hard Zero (HZ).

Third paragraph on Page 8-27 ... If autorotation ends with more than 45 degrees of rotation remaining, even if the roll is completed with aileron, the figure must be graded ~~0.0~~. Hard Zero (HZ).

#### **Family 9.11 – 9.12 Spins**

Fourth paragraph Page 8-28: If the aircraft never stalls, it is apparent that it cannot spin, and a ~~numeric zero (0.0)~~ Hard Zero (HZ) must be given. "Simulated" spins where snap rolls or other techniques are offered as spin entries will also be seen. Regardless of the entry technique, if the judge believes the aircraft did not stall prior to spin autorotation, the figure must be given a ~~numeric zero (0.0)~~. Hard Zero (HZ).

#### **Other issues of importance for Pilots, and for Judges grading flights or checking Free Programs:**

Hammerheads: In the 2014 Rules, an editorial change was made to Criterion #6 for judging Family 5 Hammerheads, relating to sliding backwards prior to the pivot. The Board has determined that this change, if it is to be made, must go through the full rule-making procedure. Therefore, until such time as that may happen, that language must be disregarded. See the change to Family 5 Hammerheads above.