

2024 Rules Changes From 2023



Board of Directors Approved Changes

2024-3	Synopsis	Improve Definition of Zero Lift Axis
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	27.2 The Zero-lift Axis 27.2.1 The aircraft's zero-lift axis is the attitude at which the wing produces no lift. It is a function of the wing's airfoil shape and Angle of Incidence relative to the fuselage.	

2024-4	Synopsis	Glider Presentation K Values												
IAC BOD Disposition	ACCEPT													
IAC BOD Approved Change	34.16.1 Category Presentation coefficients for Glider Programs are as follows: <table style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr> <th style="text-decoration: underline;">Category</th> <th style="text-decoration: underline;">Presentation K</th> </tr> </thead> <tbody> <tr> <td>a) Primary</td> <td>10 K</td> </tr> <tr> <td>b) Sportsman</td> <td>15 K</td> </tr> <tr> <td>c) Intermediate</td> <td>15 K</td> </tr> <tr> <td>d) Advanced</td> <td>20 K (Known and Unknown) 35 K (Free)</td> </tr> <tr> <td>e) Unlimited</td> <td>25 K (Known and Unknown) 35 K (Free) 34.17.1(d)</td> </tr> </tbody> </table>		Category	Presentation K	a) Primary	10 K	b) Sportsman	15 K	c) Intermediate	15 K	d) Advanced	20 K (Known and Unknown) 35 K (Free)	e) Unlimited	25 K (Known and Unknown) 35 K (Free) 34.17.1(d)
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2024-8	Synopsis	Alternate to Inverted-Start Wing Wags
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	(New) 34.12 Signaling (New) 34.12.1 For Glider Programs, if the first figure following Signaling begins in inverted flight the first two Signals may be conducted upright. The 3rd signal and any additional Signaling must be performed in inverted flight and the competitor must change the flight attitude from upright to inverted only by a half-roll. (Renumber existing 34.12 through 34.20)	

2024 Rules Changes From 2023



2024-9	Synopsis	Recording of Signaling Penalties
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	14.5.1 If a competitor fails to Signal their intent to begin or restart their Performance performing , the Chief Judge shall assess an i Improper Program Start Penalty.	

2024-14	Synopsis	Add More Down Loops to UNL UNK - Adopted CIVA Rules Change
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	Allowable Figures for Power Unknowns 37.2.12 Sub-Family 7.4 – Whole Loops <i>(For Unlimited only, also allow down loops that include roll(s) at the bottom that total an equivalent to a half-roll, namely 7.4.2.3 and 7.4.2.4)</i>	

2024-16	Synopsis	Delete Dual Seat Belts for Glider Unlimited
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	34.7 Glider Backup Seat Belts 34.7.1 Dual seat belts are not required. only required in the Unlimited category. These may share an attach point with the primary seat belt.	

2024 Rules Changes From 2023



2024-17	Synopsis	Move Altitude Limits Description																		
IAC BOD Disposition	ACCEPT																			
IAC BOD Approved Change	<p>7 The Aerobatic Box</p> <p>7.1 Description Lateral Limits</p> <p>7.1.1 Performances occur above a clearly marked area of 1,000 meters (approximately 3,280 feet) square whose central point is the intersection of the X and Y axes.</p> <p>7.1.2 The Judging Line shall be placed between 150 meters (approximately 500 feet)</p> <p>(Move 13.5 to new 7.2 – Altitude penalties remain in Chapter 13)</p> <p>13.5 7.2 Altitude Limits</p> <p>13.5.1 7.2.1 Competitors must obey the following altitude limits.</p> <table border="1"> <thead> <tr> <th>Category</th> <th>Lower Limit</th> <th>Upper Limit</th> </tr> </thead> <tbody> <tr> <td>a) Primary</td> <td>1,500 feet</td> <td>3,500 feet</td> </tr> <tr> <td>b) Sportsman</td> <td>1,500 feet</td> <td>3,500 feet</td> </tr> <tr> <td>c) Intermediate</td> <td>1,200 feet</td> <td>3,500 feet</td> </tr> <tr> <td>d) Advanced</td> <td>656 feet (200m)</td> <td>3,609 feet (1100m)</td> </tr> <tr> <td>e) Unlimited</td> <td>328 feet (100m)</td> <td>3,280 feet (1000m)</td> </tr> </tbody> </table>		Category	Lower Limit	Upper Limit	a) Primary	1,500 feet	3,500 feet	b) Sportsman	1,500 feet	3,500 feet	c) Intermediate	1,200 feet	3,500 feet	d) Advanced	656 feet (200m)	3,609 feet (1100m)	e) Unlimited	328 feet (100m)	3,280 feet (1000m)
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2024-18	Synopsis	Spin Entry Penalty Text
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	<p>28.24.4 If the aircraft does not stall or establish Autorotation, mark the figure HZ.</p> <p>Clarification: Competitors may use snap rolls or other techniques to simulate a proper spin entry. Regardless of the entry technique, if the judge believes the aircraft did not stall, the figure must be given a hard zero (HZ).</p>	

2024-20	Synopsis	Drawings Conflicts on Program Forms
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	<p>21.5 Resolving Conflicts on Program Forms</p> <p>21.5.1 Conflicts internal to Form A or L/R Scoresheet shall be resolved using the Aresti Aerobatic Catalogue number.</p> <p>21.5.2 Conflicts between the sequence drawings on Forms B and C, or L and R Scoresheets, shall be resolved using the Form appropriate to the direction of flight that corresponds to the Official Wind Direction.</p>	

2024 Rules Changes From 2023



2024-21	Synopsis	Spin Exit Reference to Wings Parallel
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	28.24 Family 9.11-9.12 – Spins 28.24.8 After Autorotation stops, the aircraft must establish a vertical down line with the wings parallel to the horizon . The pilot may achieve this by: a) Immediately after rotation stops, pitching to the vertical down line and simultaneously bringing the wings parallel to the horizon, or b) A "blended" recovery in which Autorotation stops, the aircraft pitches to the vertical down line, and the wings become parallel to the horizon simultaneously.	

2024-22	Synopsis	Horizontal Lines Constant Altitude
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	27.5.1 Horizontal lines are to be flown at a constant altitude and judged on flight path, not attitude. Clarification: The attitude required to maintain level flight varies with aircraft type and airspeed.	

2024-23	Synopsis	Add Heading Requirement for 45° Lines
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	27.4 45 Degree Lines 27.4.1 45 Degree lines are judged according to the perfect vertical attitude plus or minus 45 degrees. Clarification: When flown into the wind, an aircraft with a correct 45 degree attitude may have a flight path that is steeper than 45 degrees while the opposite is true when flown downwind. 27.4.2 The aircraft's heading must remain parallel to the X or Y axis.	

2024 Rules Changes From 2023



2024-24	Synopsis	Scorability Weather Exception
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	27.15 Scorability 27.15.1 For each figure that cannot be properly graded because of viewing angle or distance, deduct 2 points. Clarification: The effects of sun or weather are Obscuration of the aircraft is not grounds for a deduction.	

2024-29	Synopsis	Snap Rolls for Intermediate Unknowns
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	24.6.2 Rolls are restricted as follows: a) Intermediate i. No unlinked rolls. ii. Snap rolls are not permitted following half-loops.	

2024-30	Synopsis	Revise Half-Snaps In Intermediate UNK
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	37.2.25 <i>(Delete on 45 up lines and add positively-loaded ½ horizontal snap 9.9.3.2 as allowed for Intermediate)</i>	

2024 Rules Changes From 2023



2024-33	Synopsis	Clarify Square & Octagon Loops Ending
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	<p>26.1.8 The grading of each figure begins upon departure from horizontal flight and ends upon resumption of horizontal flight. Exception: Square and Octagon Loops (Aresti Aerobatic Catalogue numbers 7.4.3 thru 7.4.6) are not complete until their final horizontal line is drawn. have special criteria for the final line; see the Family-Specific Grading Criteria.</p> <p>28.12.2 All lines (Interior and any final line) must be of equal length, must be the same length as the first line. If they are not of equal length, deduct according to Variations in Line Length. Clarification: Grading Square and Octagon loops must continue until the final horizontal line is drawn equal to the length of the first line of the figure, or until the next figure starts end when the length of the final horizontal line equals the length of the first line, or when the next figure starts, whichever occurs first. If any final line is seen, regardless of length, the No Line Between Figures downgrade does not apply. Example: If no final line is seen before initiating the next figure, a four (4) point deduction applies to the loop according to Variations in Line Length with a further downgrade of one (1) point on the subsequent figure for No Line Between Figures.</p>	

2024-34	Synopsis	Handling of Improper Restarts
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	<p>15.1 Explicit Interruptions 15.1.5 The Performance may be resumed with a) the figure immediately preceding the point of interruption, or b) the figure in progress at the time of interruption, or c) the figure immediately following the point of interruption. If the Performance is resumed at any other point, an Improper Restart Penalty shall be assessed. the Chief Judge shall assess an Improper Restart Penalty and Grading Judges shall ignore any figures already scored.</p>	

2024 Rules Changes From 2023



2024-35	Synopsis	Gliders Cannot Change Flight Path Between Figures
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	<p>34.19.2 Figure Entry and Exit 34.19.2.1 In Glider flights, the lines marking the entry into and exit from a maneuver can be at any reasonable constant angle and need not be the same, provided the angles do not violate the basic form of the figure. Any change to the flight path between figures shall be penalized one point per five (5) degrees. Example: If a pilot is about to fly a loop, which requires only a moderate velocity, followed by a hammerhead with a quarter-roll on the up line, which requires a high velocity, a judge can expect a much steeper attitude on the line marking the loop's exit than on the line marking the entry to the loop.</p>	

2024-36	Synopsis	Quarter-Clover Wind Deductions
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	<p>28.3 Family 0.1-0.2 Quarter-Clover 28.3.5 The figure second half-loop of a Figure 0.1 Quarter-Clover and the first half-loop of a Figure 0.2 Quarter Clover must be wind corrected to maintain a constant radius.</p>	

2024-40	Synopsis	Update 4-Min Freestyle Eligibility
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	<p>35.4 Eligibility 35.4.1 All Unlimited competitors and any Advanced category competitors who a) hold at least a current ICAS 250-foot Statement of Aerobatic Competency, or b) have current FAA Airshow Certification to a floor of no higher than 250 feet for U.S. Department of Defense demonstration teams, may compete in the Four Minute Freestyle. 35.4.2 All Four Minute Freestyle competitors must have completed their category's Programs.</p>	

2024 Rules Changes From 2023



2024-41	Synopsis	Update Glider Advanced Unknown Program Max Total Figure K												
IAC BOD Disposition	ACCEPT													
IAC BOD Approved Change	<p>34.18 Unknown Sequence Restrictions 34.18.1 The Number of Figures, Individual Figure K-Factor, and Total Figure K-Factor are restricted as follows:</p> <table style="margin-left: 40px;"> <thead> <tr> <th style="text-align: left;"><u>Category</u></th> <th style="text-align: center;">....</th> <th style="text-align: center;"><u>Maximum Total Figure K-Factor</u></th> </tr> </thead> <tbody> <tr> <td>a) Intermediate</td> <td style="text-align: center;">....</td> <td style="text-align: center;">130</td> </tr> <tr> <td>b) Advanced</td> <td style="text-align: center;">....</td> <td style="text-align: center;">145 160</td> </tr> <tr> <td>c) Unlimited</td> <td style="text-align: center;">....</td> <td style="text-align: center;">190</td> </tr> </tbody> </table>		<u>Category</u>	<u>Maximum Total Figure K-Factor</u>	a) Intermediate	130	b) Advanced	145 160	c) Unlimited	190
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a) Intermediate	130												
b) Advanced	145 160												
c) Unlimited	190												

2024-45	Synopsis	Add Safety Director to Tech Committee
IAC BOD Disposition	ACCEPT	
IAC BOD Approved Change	<p>5.1.2 The Technical Committee shall consist of the Contest Director, The Chief Judge(s), the Safety Director, and the Chief Technical Monitor who is appointed by the Contest Director. Additional Technical Committee members may be appointed by the Contest Director as needed.</p>	

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Editorial Changes (Not Impacting Intent of Existing Rules)

Revised dates throughout as appropriate for this new edition.

Judge's Quick Reference (Guiding Principles) & 15.1.5 - Changed term "scored" to "graded". Grades are assigned by Judges but scores are calculated (using those grades) by the Scorer.

Judge's Quick Reference (Gliders) - Added "constant" to be consistent with BOD-approved change 2024-35.

1.1 - Revised proposal counts as experienced in 2023.

5.1.2 - Removed "who is appointed by the Contest Director". This is redundant with 2.1.1 that specifies that all appointments are made by the Contest Director.

15.1.8 - Typos: The word "one", missed last year, was added prior to "Improper Restart Penalty". Deleted unused parenthesis at end of the paragraph.

30.8.1 - Revised to change voice from second person to third person. This is consistent with the rest of the book.

32.2 - Moved the prior 32.4.1 into this section, making it 32.2.2. They are similar enough to be in one section. Renumbered the subsequent paragraphs.

32.7 (was 32.8) - Changed the title to "Contest Score Computation". This is better related to the content and mirrors the "Final Program Score Computation" section title.

35.4.1 - Typo: Corrected spelling of "certification".

Numerous paragraphs - Capitalized "Protest Period" throughout the book as a term of art. This is an important feature of benefit to competitors.