FÉDÉRATION AÉRONAUTIQUE INTERNATIONALE



CATALOGUE OF GLIDER AEROBATIC FIGURES (GAF)

Adopted by the FAI Aerobatics Commission (CIVA), 1990

Third Edition

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Introduction and Acknowledgements

The FAI Catalogue of Glider Aerobatic Figures was approved by CIVA at its meeting in London in November 1990. It will be used for all glider aerobatic competitions from 1991 on. These pages are printed in a different color so they can be easily differentiated from the white pages that appear in the FAI Aerobatic Catalogue. These pages can be inserted into the plastic sleeves in the catalogue or used separately. Please note that the pages are numbered the same as the FAI Catalogue and, therefore, gaps may seem to exist in this document. They do not. The same is true for certain figures that have been omitted from the GAF. The gaps are intentional.

It should be noted that the K factors appearing in the "Description of Catalogue" and "Method of Evaluation" of the FAI Aerobatic Catalogue do not always apply to the FAI Catalogue of Glider Aerobatic Figures. However, the enumeration system is the same. Adjustments to K factors have been made by CIVA to take into account the difficulty in flying figures in gliders versus powered aircraft.

CIVA pays special tribute to Heinz Clasen of germany who, in 1977, created the "Bewertungssystem ALFA für Segelkunstflug" which was the basis on which subsequent glider aerobatic contests were held. Collaborating on this system with him were Victor de Beauclair, Josef Hoessl, and Helmut Laurson, all from Germany. The ALFA catalogue was replaced by a decision of CIVA in 1991 by the FAI Catalogue of Glider Aerobatic Figures.

The adaptation of the FAI Aerobatic Catalogue for use in glider aerobatics was undertaken in 1990 by the following: Karl Berger, Chairman, Austria; Madelyne Delcroix-Katona, France; Manfred Echter, Germany; Bob O'Dell, USA; Gerd Ottensmann, Germany; and Ray Rose, USA. Our thanks to these people for their hard work.

Michael R. Heuer President FAI Aerobatic Commission (CIVA)

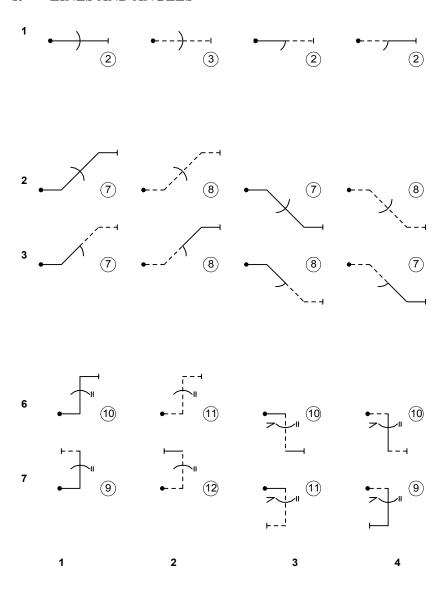
Cordova, Tennessee, USA January 1991

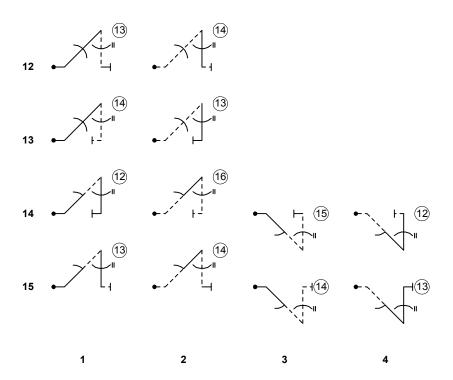
RECORD OF AMENDMENTS

Amdt. No.	Revision details	Changed Pages
1-4	Revisions of original 1990 version	
2 nd Edition	Completely revised edition with deletion of Family 4, addition and modification of figures in Families 1, 8 and 9.	
3 rd Edition	Changes to Family 2 representation and Family 8 figures	29 & 30 49 to 52
	No. 1-4 2 nd Edition	No. 1-4 Revisions of original 1990 version 2 nd Completely revised edition with deletion of Family 4, addition and modification of figures in Families 1, 8 and 9. 3 rd Changes to Family 2 representation and

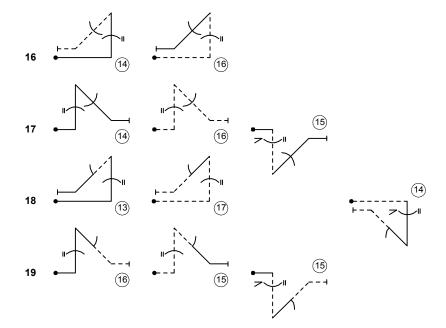
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1. LINES AND ANGLES





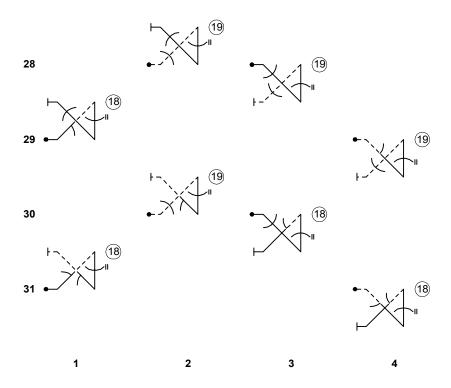
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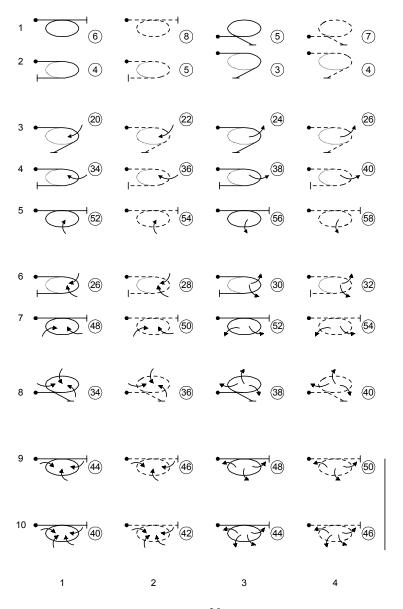
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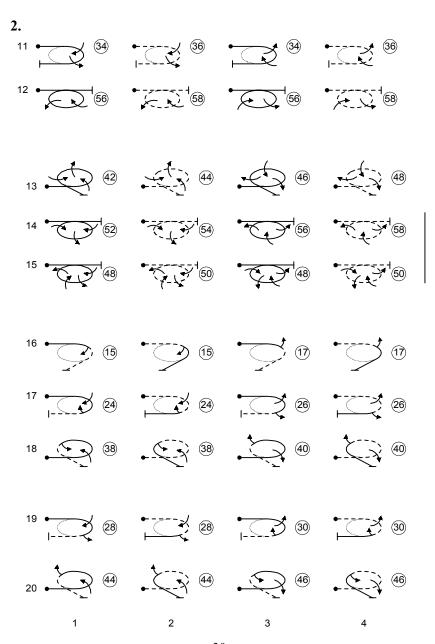
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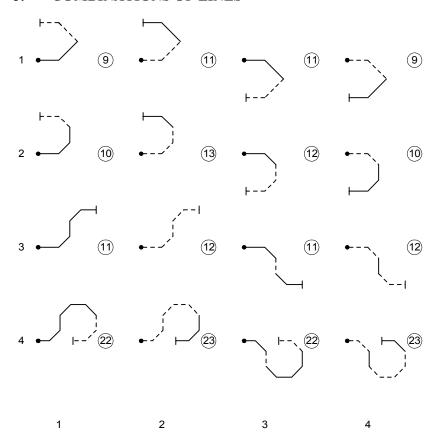


2. TURNS AND ROLLING TURNS





3. COMBINATIONS OF LINES



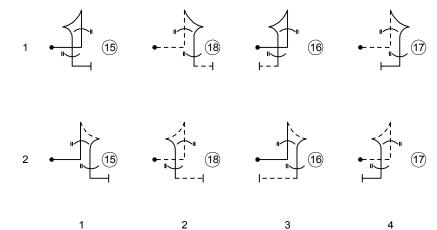
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5. STALL TURNS

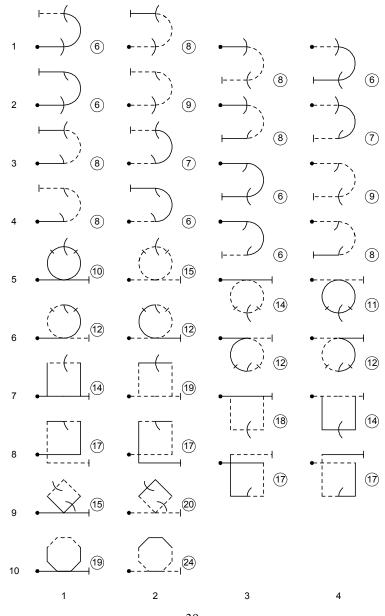
1 2 3 4

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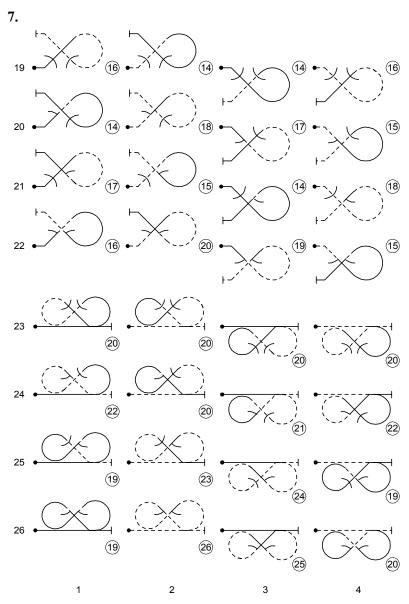
6. TAILSLIDES



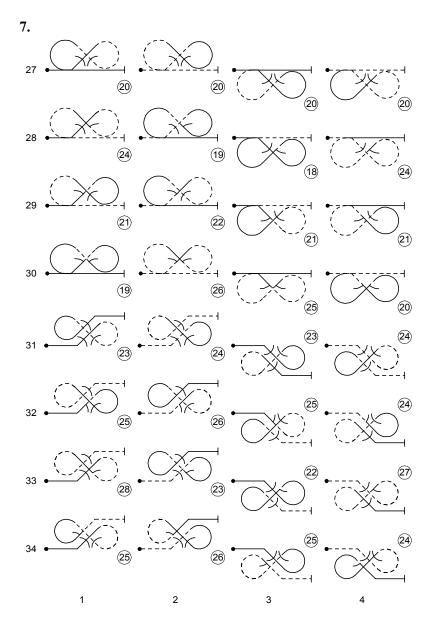
7. LOOPS AND EIGHTS



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NOTE: At the sign \longrightarrow only half-rolls permitted.



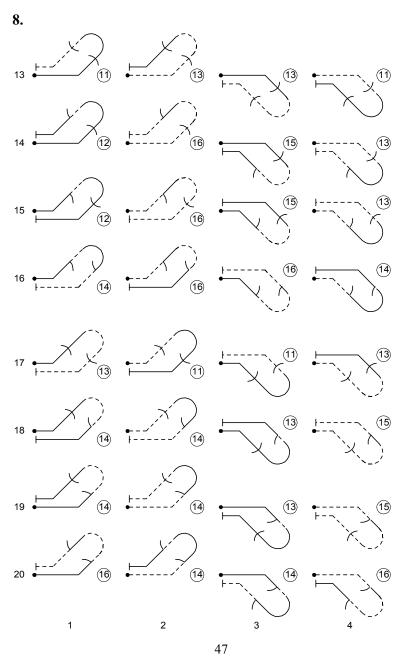
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NOTE: At the sign ______ only half-rolls permitted.

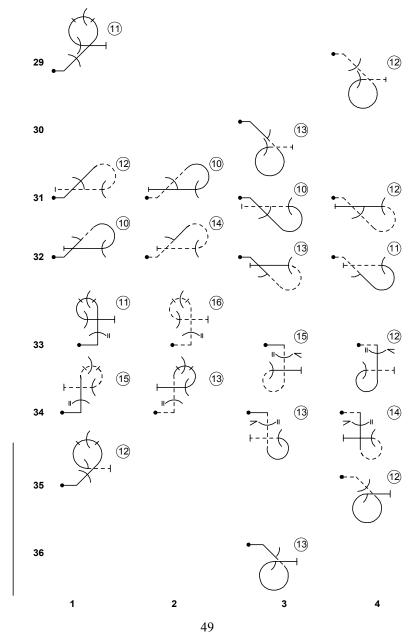
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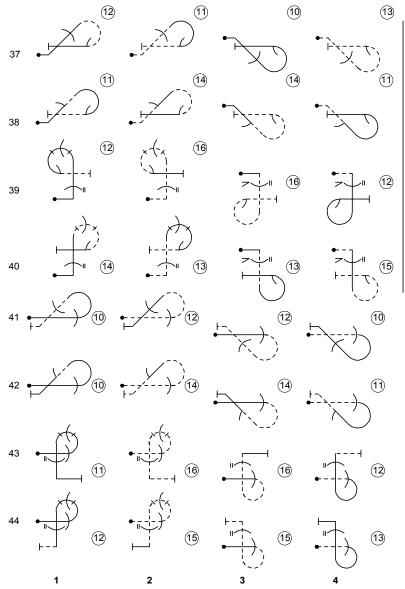
8. COMBINATIONS OF LINES, ANGLES AND LOOPS

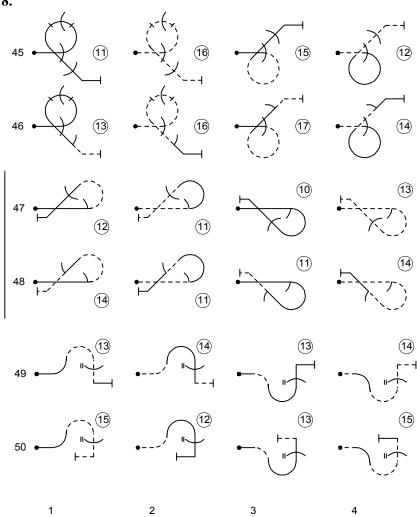
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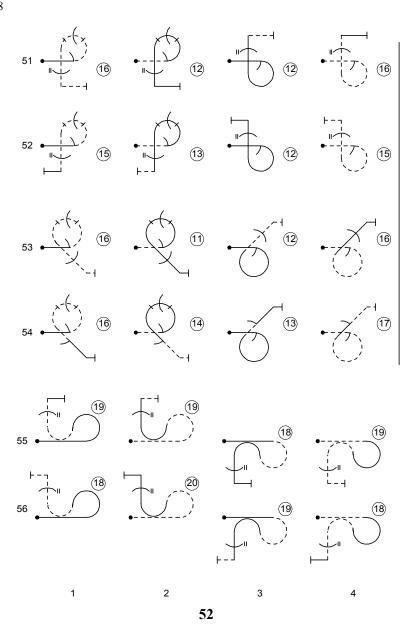


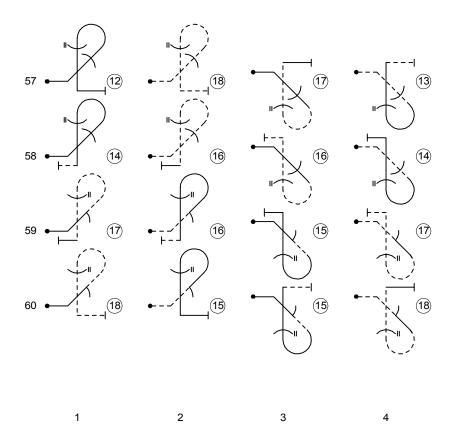
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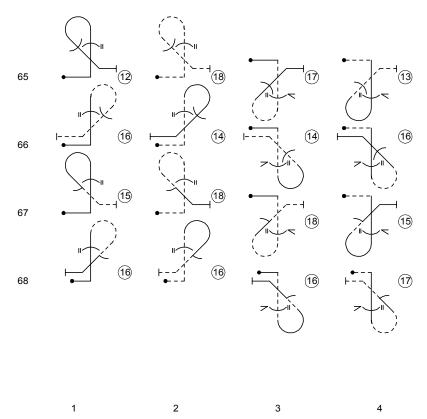












9. ROLLS AND SPINS

FAMILY 9.1 (SLOW ROLLS)

9.1		1/4	1/2	3/4	1	11/4	1½	13/4	2
1	4	9	12	15	18				
2	*	6	9	12	15		18		
3	•	3	6	9	12	14	15	17	18
4	**	3	6	9	12		15		
5	•	3	6	9	12				
		1	2	3	4	5	6	7	8

FAMILY 9.2 (2-POINT ROLLS)

9.2					1		1½		2
1	2 🖈				20				
2	2				17				
3	2				14		18		23
4	24				14		18		
5	2				14				
		1	2	3	4	5	6	7	8

FAMILY 9.3 (3-POINT ROLLS)

9.3					1		1½		2
3	3 >				17				28
4	3*				17				
		1	2	3	4	5	6	7	8

FAMILY 9.4 (4-POINT ROLLS)

9.4			1/2	3/4	1	11/4	1½	13/4	2
1	4 •		14						
2	4		11						
3	4		8	12	17	20	23	26	28
4	4		8	12	17				
5	4		8	12					
		1	2	3	4	5	6	7	8

9.8 FAMILY 9.8 (8-POINT ROLLS)

9.8		1/4	1/2	3/4	1	11/4	1½	13/4	2
1	8	11							
2	8 🔨	8	14						
3	8	5	11	17	23	27	32	36	41
4	8 🕹	5	11						
5	8	5	11						
		1	2	3	4	5	6	7	8

FAMILY 9.9 (POSITIVE FLICK ROLLS)

9.9			1/2	3/4	1	11/4	1½	1¾	2
1			18	20	22				
2	\Rightarrow		15	17	19				
3	•—		12	14	16	19	21	24	25
4	*>		12	14	16	19	21	24	25
5	•		12	14	16	19	21	24	25
6			18	20	22				
7	•>>		18	20	22				
8	•-{\(\)		15	17	19	22	24	27	30
9	*>>		15	17	19	22	24	27	30
10	•		12	14	16	19	21	24	25
		1	2	3	4	5	6	7	8

FAMILY 9.10 (NEGATIVE FLICK ROLLS)

9.10)		1/2	3/4	1	11/4	1½	13/4	2
1			21	23	25				
2	*		18	20	22				
3	•		15	17	19	22	24	27	30
4	*		15	17	19	22	24	27	30
5			15	17	19	22	24	27	30
6			21	23	25				
7	*		21	23	25				
8	•		18	20	22	25	28	31	34
9	*		18	20	22	25	28	31	34
10	i		15	17	19	22	24	27	30
		1	2	3	4	5	6	7	8

FAMILY 9.11 (POSITIVE SPINS)

					1	11/4	1½	1¾	2
1	•	Upi	right Ei Line	ntry	5	6	7	8	8
2	•	Inv	erted E Line	ntry	6	7	8	9	9
					4	5	6	7	8

FAMILY 9.12 (NEGATIVE SPINS)

				1	11/4	1½	13/4	2
1	Inv	erted E	ntry	7	8	9	10	10
2	Upi	right Ei Line	ntry	8	9	10	11	11
				4	5	6	7	8

FAMILY 9.13 (SUPER SLOW ROLLS)

9.13	9.13		1/2		1		11/2		2
3	•		8		16		20		
		1	2	3	4	5	6	7	8