

KAWG report for the 2023 FreeKnown Figure sets

28 OCTOBER 2022

Dear CIVA Delegates:

NAC submissions of Figure sets for the FreeKnowns in 2023 in all categories were received as follows:

- 4 proposals for Unlimited (A to D)
- 6 proposals for Advanced (A to F)
- 2 proposals for Intermediate / Yak-52 (A and B)

CIVA's 6 KAWG Experts have reviewed the proposals individually and have returned their opinions and rankings.

Unlimited:

The KAWG Experts compounded ranking gives Figure set D the lead.

Figure sets A and C followed behind, although C was discarded by one Expert because of high negative in Fig C and that the FK will be flown repeatedly throughout the season.

Advanced:

Figure sets D and F are the only 2 sets which were not discarded by any of the Experts. D and F have also fared best in the compounded Experts ranking.

All other figure sets (A, B, C and E) have been discarded by one or two Experts.

Intermediate / Yak-52

There are only two propositions. The Experts have found both Figure sets acceptable.

The mark X in this report means the Expert has either discarded the respective Figure set or has not recommended it.

All the remarks of the Experts, their full analysis and ranking can be found in the joined Excel file.

All NAC proposals are represented in this report and it gives you hopefully all the information that you need for voting at CIVA Plenary.

Hanspeter Rohner

and the KAWG Experts:

Alan Cassidy
Coco Bessiere
Rob Holland
Louis Vanel
Castor Fantoba
Nigel Hopkins

Free Known figures 2023 proposals

Unlimited

Expert name

Alan Cassidy (AC)

Claude Bessiere (CB)

Rob Holland (RH)

Louis Vanel (LV)

Castor Fantoba (CF)

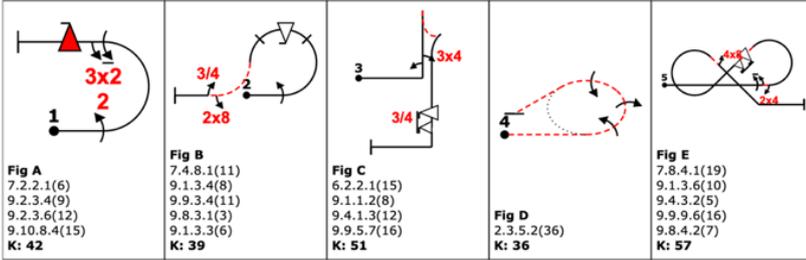
Nigel Hopkins (NH)

Notes on possible problems

Order of preference

A

Unlimited A Total K 225

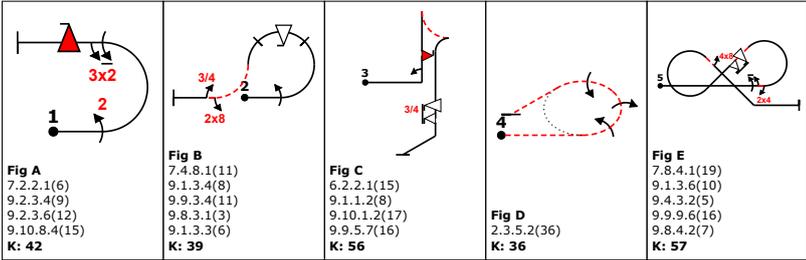


2	3	3	2	2	4
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AC Figs A and E will get badly judged
CB The big 8 has a big coefficient (Fig E)
LV Fig B: Not interesting for box and seq building
 Fig E: Speed limit for some aircrafts at the pos flick
CF Fig C potentially high altitude loss
NH Fig C only good for high energy aircraft. Too many stops

B

Unlimited B Total K 230

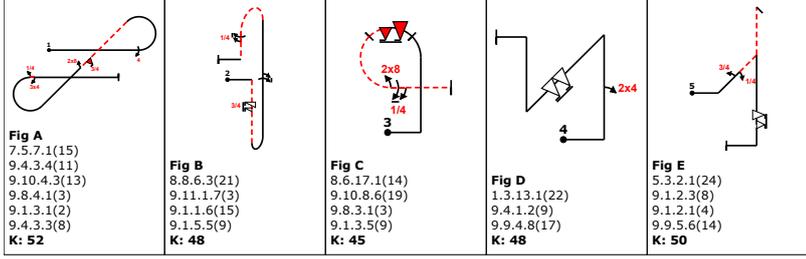


3	X	X	3	3	3
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AC Fig C will be cheated on flick
CB Random tail slide, sequence difficult to build, Fig E coeff too big
LV Fig C Energy loss with the tail slide and 2 flicks
CF Fig C potentially high altitude loss
NH Fig C only good for high energy aircraft

C

Unlimited C Total K 243

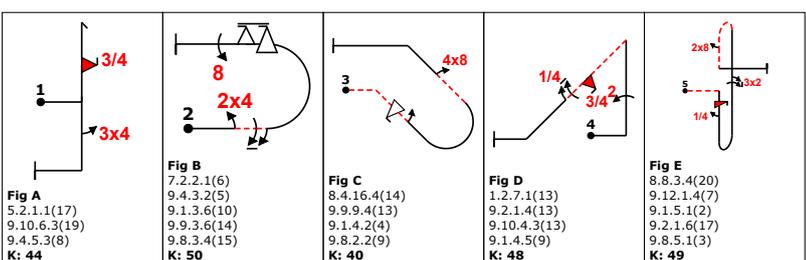


4	1	1	4	X	2
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AC Three figures will get bad judging
LV Fig B Long positive spin which is hard to be flown correctly
CF Fig C Hard negative

D

Unlimited D Total K231



1	2	2	1	1	1
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CB Fig A is necessary to the right into wind
 Fig B 8 point roll after the flick
 difficult to position in the sequence

Free Known figures 2023 proposals

Advanced

Expert name

Alan Cassidy (AC)

Claude Bessiere (CB)

Rob Holland (RH)

Louis Vanel (LV)

Castor Fantoba (CF)

Nigel Hopkins (NH)

Notes on possible problems

Order of preference

Advanced A Total K 175

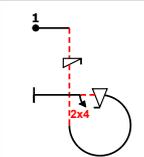


Fig A
8.6.4.3(13)
9.11.1.4(5)
9.9.3.4(11)
9.4.3.2(5)
K: 34

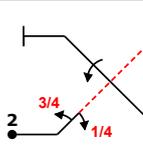


Fig B
1.3.2.1(18)
9.1.2.3(8)
9.1.2.1(4)
9.1.2.4(10)
K: 40

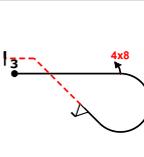


Fig C
8.5.8.3(11)
9.8.3.2(7)
9.9.2.2(13)
K: 31

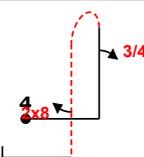


Fig D
8.4.3.1(15)
9.1.1.3(10)
9.8.5.1(3)
K: 28

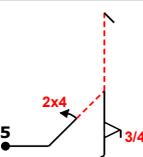


Fig E
5.3.2.1(24)
9.4.2.2(7)
9.9.5.3(11)
K: 42

2	4	X	3	5	2
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LV Fig C Speed and altitude risk with dive loop (and after 4x8)
CF Fig C need s control of altitude and speed before pull down

Advanced B Total K 175

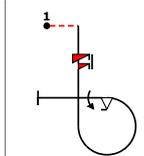


Fig A
8.6.2.4(12)
9.12.1.6(5)
9.9.3.2(11)
9.1.3.4(8)
K: 36

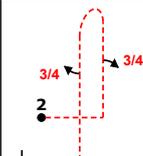


Fig B
8.4.2.2(17)
9.1.1.3(10)
9.1.5.3(6)
K: 33

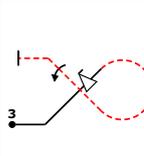


Fig C
7.3.1.1(16)
9.9.2.4(13)
9.1.2.4(10)
K: 39

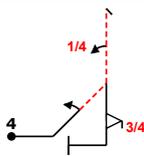


Fig D
5.3.2.1(24)
9.1.2.2(6)
9.1.1.1(6)
9.9.5.3(11)
K: 47

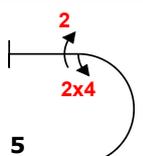


Fig E
7.2.2.1(6)
9.4.3.2(5)
9.2.3.4(9)
K: 20

5	2	2	4	X	3
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AC Fig A G-loc
LV Fig C physical figure
CF Fig C hard negative not good for FK repeated training
NH High negative G's

Advanced C Total K 169

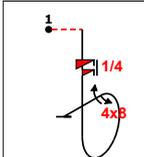


Fig A
8.6.2.4(12)
9.12.1.5(6)
9.8.3.2(7)
9.1.3.4(8)
K: 33

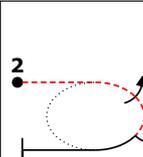


Fig B
2.2.3.4(26)
K: 26

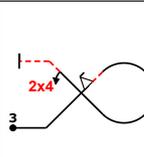


Fig C
7.3.4.1(16)
9.9.2.2(13)
9.4.2.2(7)
K: 36

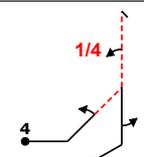


Fig D
5.3.2.1(24)
9.1.2.2(6)
9.1.1.1(6)
9.1.5.2(4)
K: 40

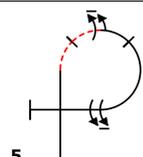


Fig E
8.6.19.1(12)
9.1.3.6(10)
9.1.3.8(12)
K: 34

6	X	X	1	4	5
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AC Fig A G-loc
CB Difficult for box because of Fig D stall turn to the left
LV High speed cross box
NH Cross box figures make it difficult for design. Only 1 flick.

Advanced D Total K 164

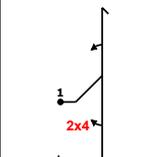


Fig A
5.3.1.1(18)
9.1.1.2(8)
9.4.5.2(5)
K: 31

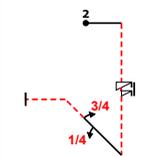


Fig B
1.2.8.3(15)
9.11.1.6(3)
9.1.2.1(4)
9.1.2.3(8)
K: 30

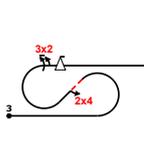


Fig C
7.5.7.1(15)
9.4.4.2(5)
9.2.3.6(12)
9.9.3.4(11)
K: 43

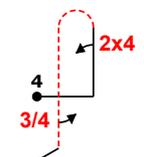


Fig D
8.4.3.1(15)
9.4.1.2(9)
9.1.5.3(6)
K: 30

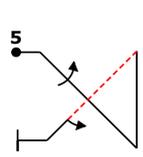


Fig E
1.3.3.3(18)
9.1.4.4(8)
9.1.4.2(4)
K: 30

1	3	3	2	1	4
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LV High speed cross box
NH Only 1 flick

Advanced E Total K 171

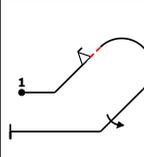


Fig A
8.4.15.1(12)
9.9.2.2(13)
9.1.4.4(8)
K: 33

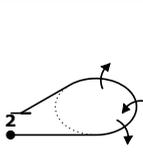


Fig B
2.3.5.3(36)
K: 36

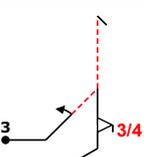


Fig C
5.3.2.1(24)
9.1.2.2(6)
9.9.5.3(11)
K: 41

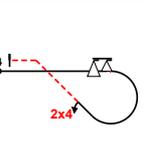


Fig D
8.5.8.3(11)
9.9.3.6(14)
9.4.2.2(7)
K: 32

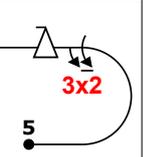


Fig E
7.2.2.1(6)
9.2.3.6(12)
9.9.3.4(11)
K: 29

4	X	X	5	3	6
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AC ½ flick on 45 up will not be judged very well.
CB Fig A altitude loss
LV Fig C High speed cross box
Fig D altitude risk with dive loop
NH High K rolling turn

Free Known figures 2023 proposals

Advanced

Expert name

Alan Cassidy (AC)	Claude Bessiere (CB)	Rob Holland (RH)	Louis Vanel (LV)	Castor Fantoba (CF)	Nigel Hopkins (NH)
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Notes on possible problems

Order of preference

3	1	1	6	2	1
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Advanced F Total K 173

<p>Fig A 5.2.1.4(22) 9.1.1.3(10) 9.9.5.3(11) K: 43</p>	<p>Fig B 7.2.3.3(6) 9.4.3.2(5) 9.1.3.3(6) 9.4.3.3(8) K: 25</p>	<p>Fig C 8.5.7.1(12) 9.1.3.6(10) 9.9.4.4(11) K: 33</p>	<p>Fig D 7.2.2.1(6) 9.1.3.4(8) 9.9.3.4(11) 9.8.3.2(7) K: 32</p>	<p>Fig E 8.8.1.1(18) 9.4.1.2(9) 9.1.5.3(6) 9.8.1.1(7) K: 40</p>
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AC High negative out of one figure
LV Fig B altitude risk with dive loop
Fig C speed risk for positive flick

Free Known figures 2023 proposals

Intermediate / Yak-52

Expert name

Alan Cassidy (AC)	Claude Bessiere (CB)	Rob Holland (RH)	Louis Vanel (LV)	Castor Fantoba (CF)	Nigel Hopkins (NH)
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Notes on possible problems

Order of preference

1	2	2	1	1
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Intermediate / Yak-52 A Total K 109

<p>Fig A 1.2.8.3(15) 9.11.1.6(3) 9.4.2.2(7) K: 25</p>	<p>Fig B 5.3.1.1(18) 9.8.5.1(3) K: 21</p>	<p>Fig C 8.4.3.1(15) 9.1.1.1(6) K: 21</p>	<p>Fig D 8.5.7.3(10) 9.1.3.3(6) 9.1.3.1(2) 9.1.2.4(10) K: 28</p>	<p>Fig E 7.4.3.1(14) K: 14</p>
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CF Fig D needs control of altitude and speed before pull down

Intermediate / Yak-52 B Total 110

<p>Fig A 1.1.6.3(10) 9.11.1.5(4) K: 14</p>	<p>Fig B 7.2.2.1(6) 9.1.3.2(4) 9.2.3.4(9) K: 19</p>	<p>Fig C 5.2.1.1(17) 9.1.1.1(6) K: 23</p>	<p>Fig D 7.4.1.1(10) 9.4.3.4(11) K: 21</p>	<p>Fig E 1.2.6.1(14) 9.1.1.2(8) 9.9.4.4(11) K: 33</p>
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NH Fig B energy low.

2	1	1	2	2
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