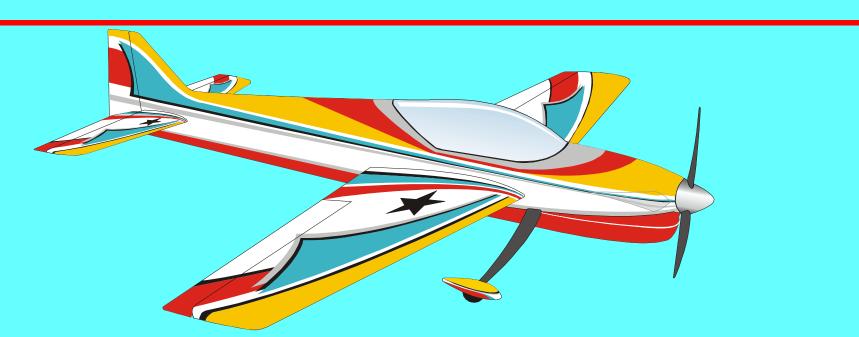
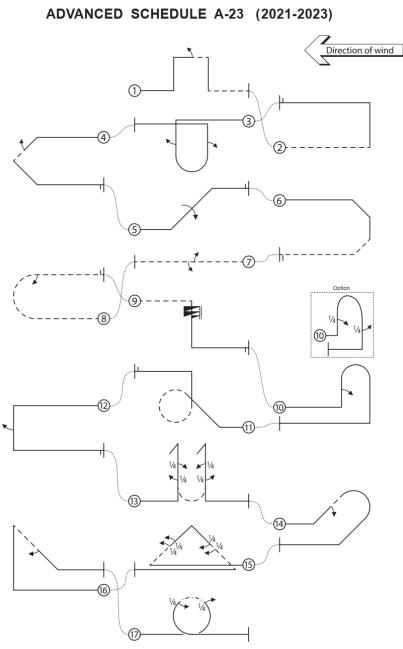
# SCHEMATIC MANOEUVRE ILLUSTRATIONS SCHEDULE A-23

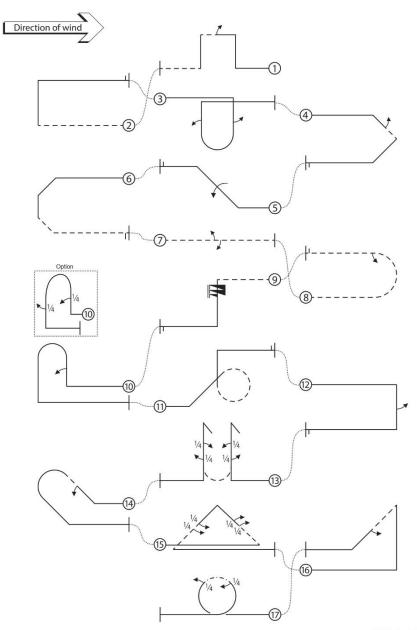


# Flying and Judging F3A



© CIAM F3 Aerobatics Drawings by Ken Hirose Feb. 2019

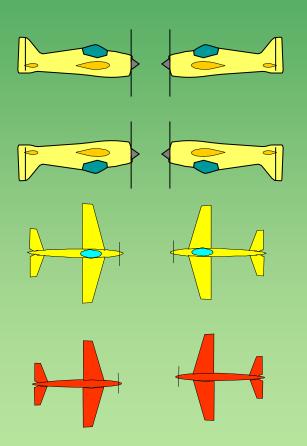
#### ADVANCED SCHEDULE A-23 (2021-2023)



© CIAM F3 Aerobatics Drawings by Ken Hirose Feb. 2019



## **Explanations:**



Aircraft upright

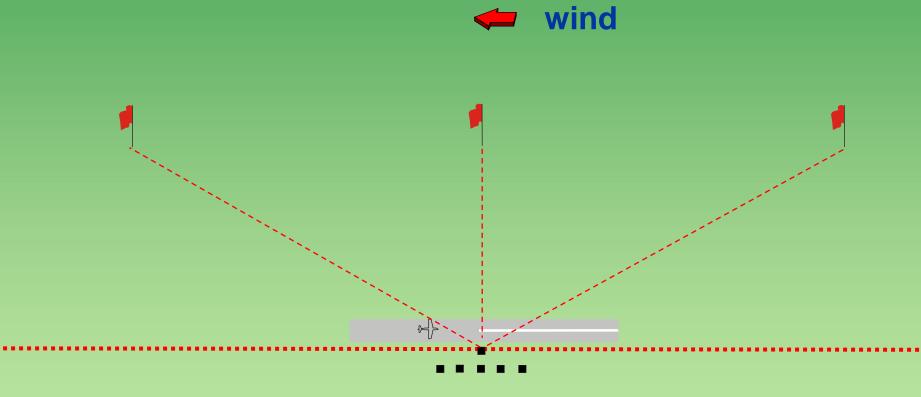
**Aircraft inverted** 

Aircraft in Knife-Edge View from Top

Aircraft in Knife-Edge View from Below



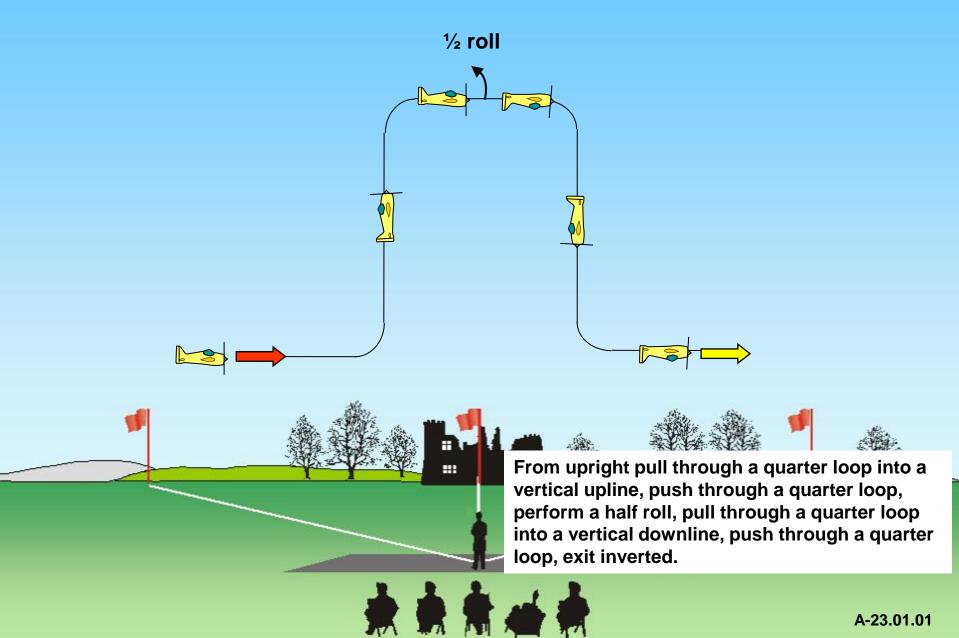
Take-off procedure ( not judged, not scored )



Safety line



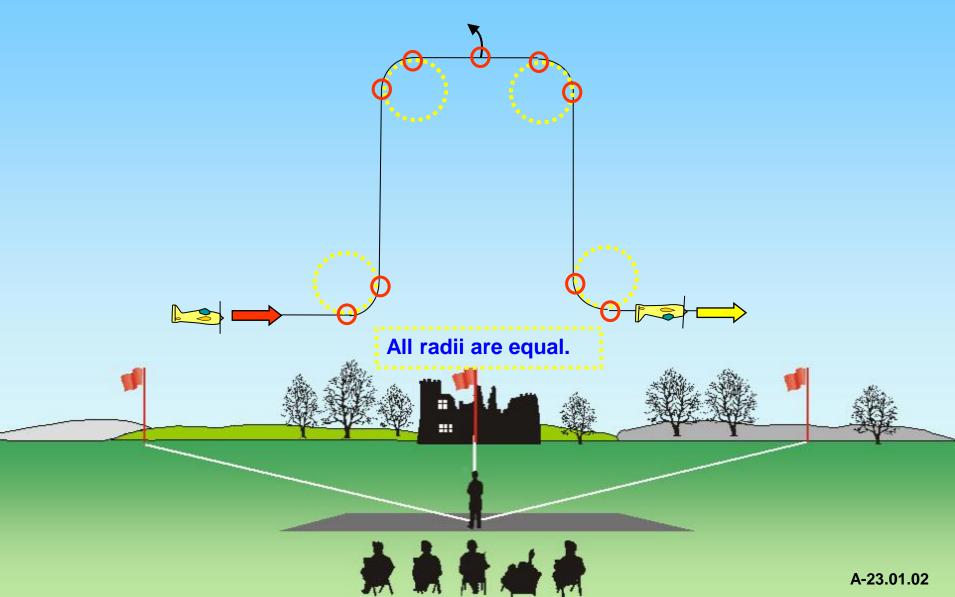
#### A-23.01 Top Hat with half roll on top



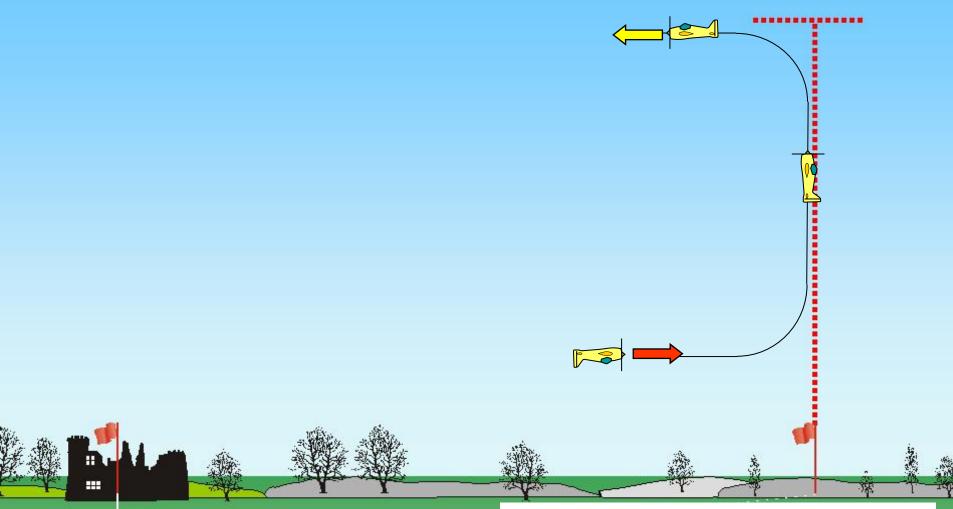


#### A-23.01 Top Hat with half roll on top

 $\frac{1}{2}$  roll on middle of the line.



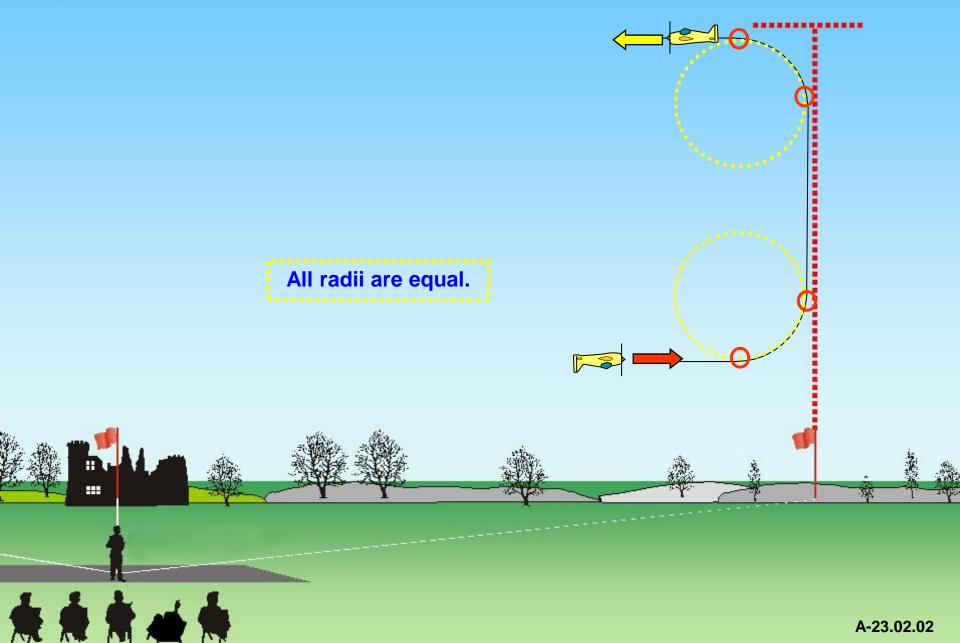




From inverted, push through a quarter loop into a vertical upline, push through a quarter loop, exit upright.

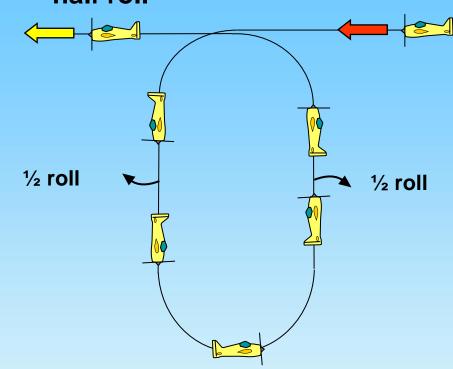


### A-23.02 Half Square Loop





A-23.03 Push-Pull-Push Humpty-Bump with half roll, half roll

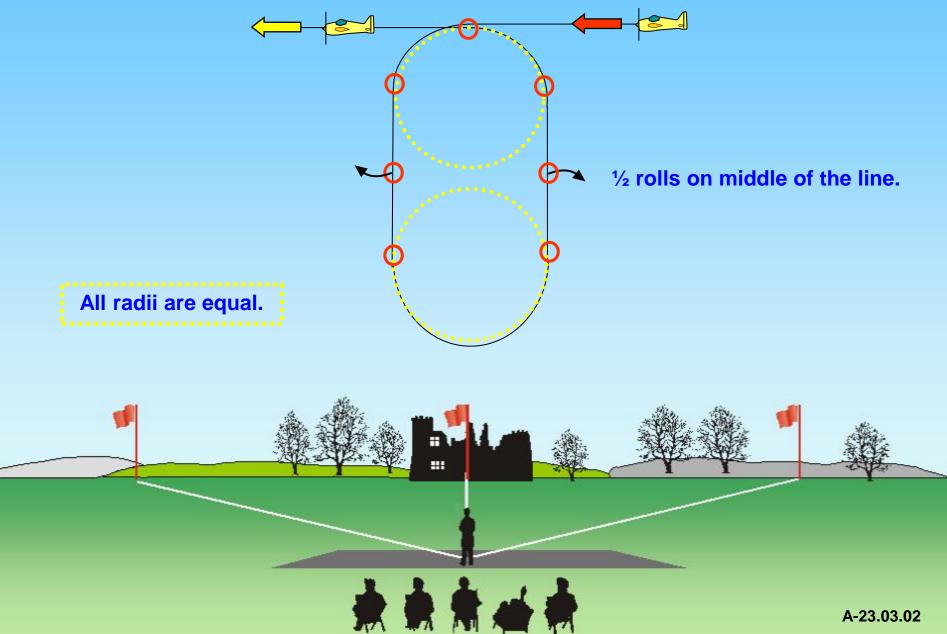




From upright, fly past center push through a quarter loop into a vertical downline, perform a half roll, pull through a half loop into a vertical upline, perform a half roll, push through a quarter loop, exit upright.

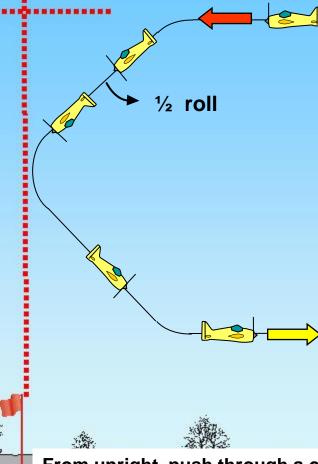


# A-23.03 Push-Pull-Push Humpty-Bump with half roll, half roll





#### A-23.04 Half Square Loop on Corner with half roll



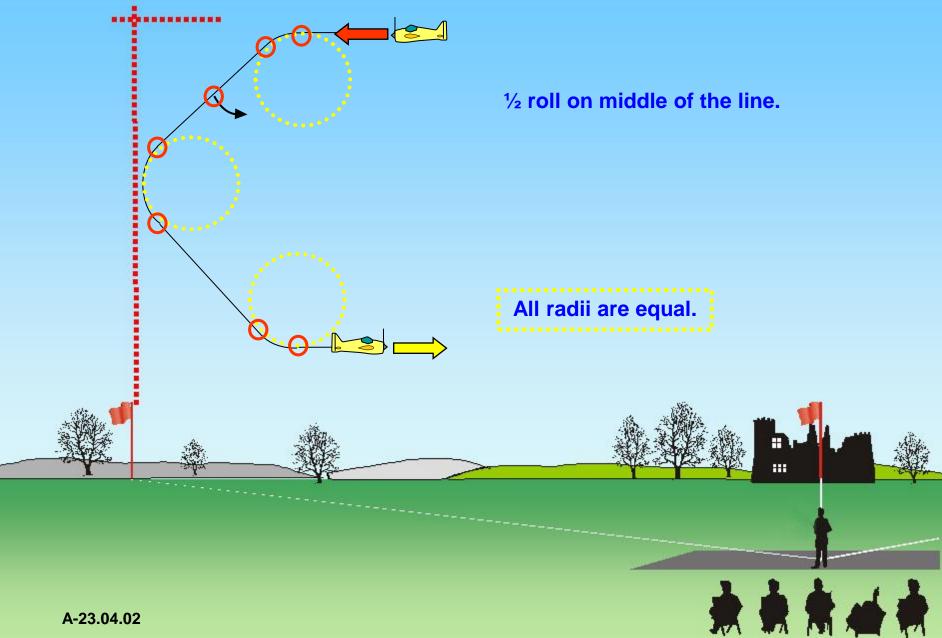
From upright, push through a one eighth loop into a forty five degree downline, perform a half roll, pull through a quarter loop into a forty five degree downline, pull through a one eighth loop, exit upright.





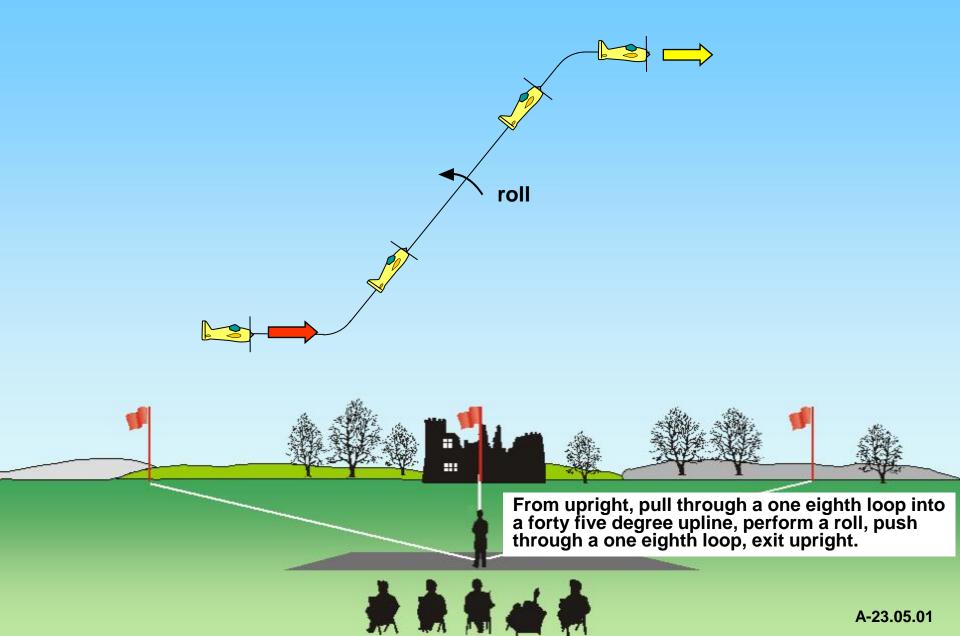


#### A-23.04 Half Square Loop on Corner with half roll



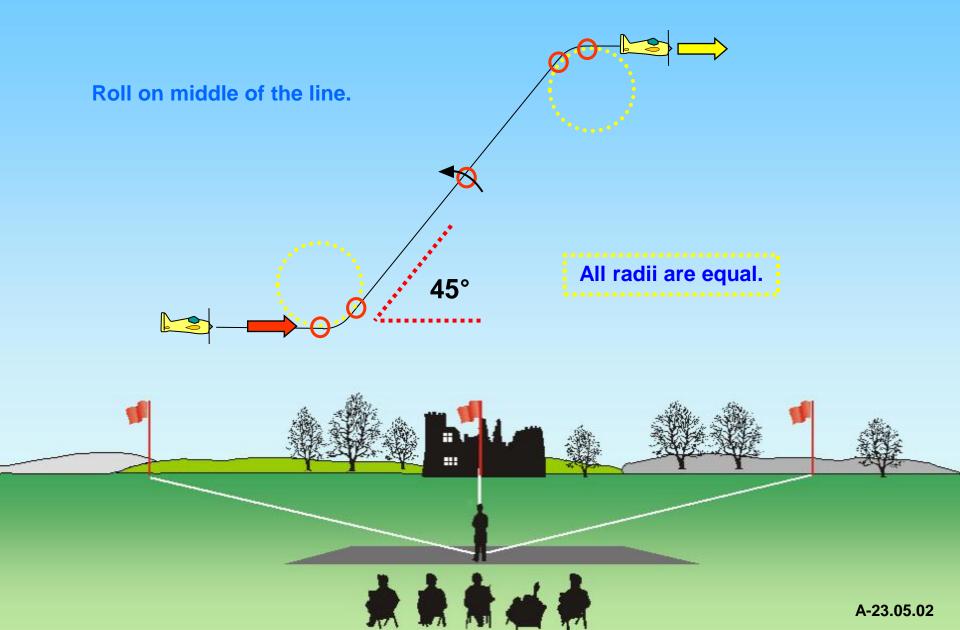


#### A-23.05 Forty Five degree Upline, with roll





#### A-23.05 Forty Five degree Upline, with roll





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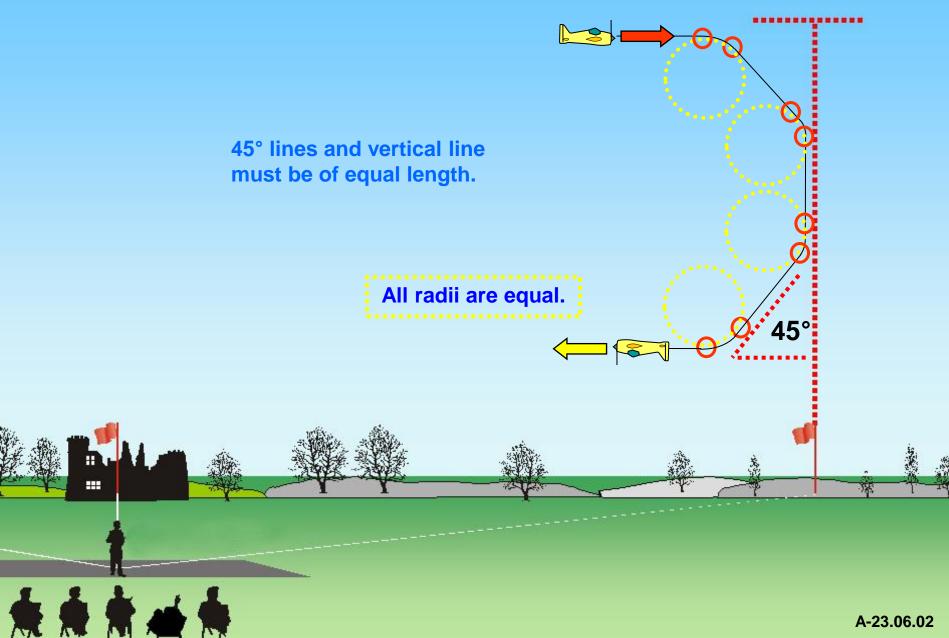
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A-23.06 Half Eight Sided Loop

Sales . \* From upright push through a one eighth loop into a forty five degree downline, push through a one eighth loop into a vertical downline, push through a one eighth loop into a forty five degree downline, push through a one eighth loop, exit inverted.

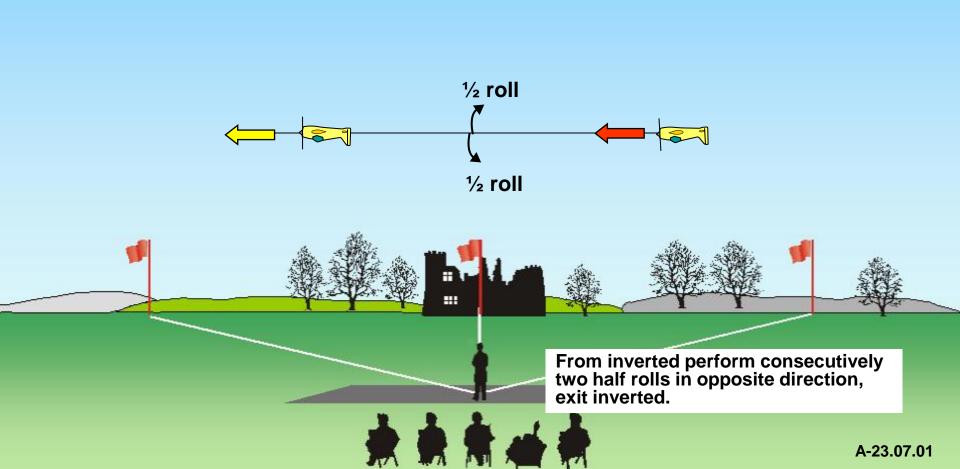


#### A-23.06 Half Eight Sided Loop





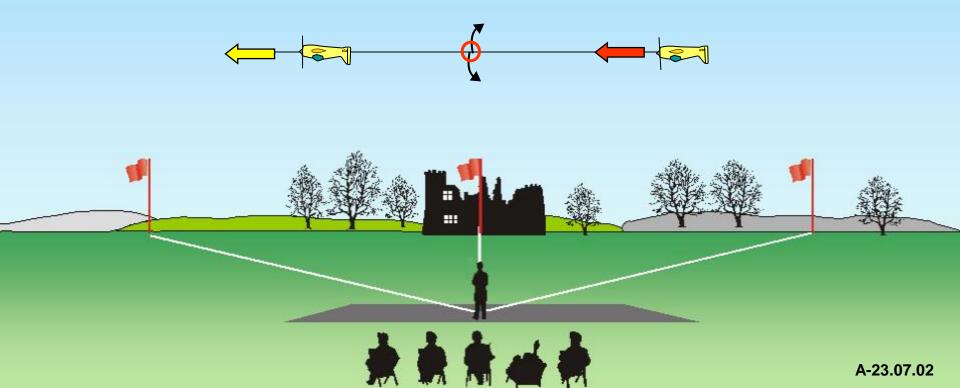
# A-23.07 Roll Combination with two consecutive half rolls in opposite direction





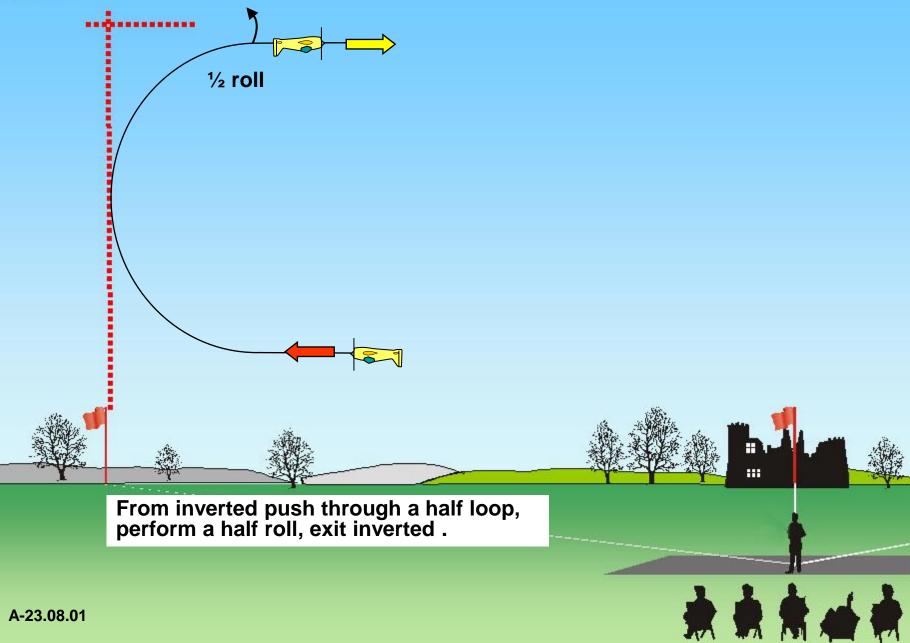
A-23.07 Roll Combination with two consecutive half rolls in opposite direction

#### Between rolls and part rolls in opposite direction there must be no line.



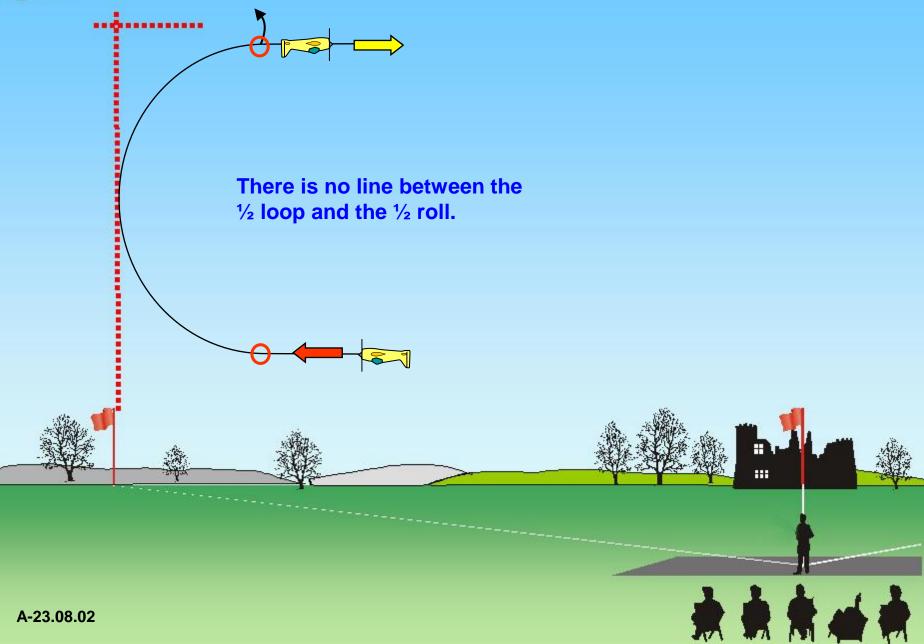


#### A-23.08 Pushed Immelman Turn with half roll



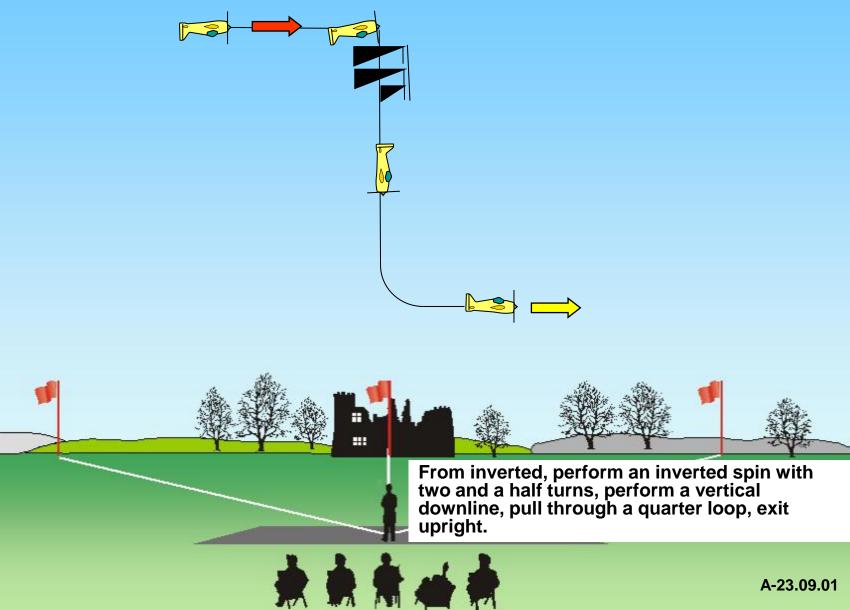


### A-23.08 Pushed Immelman Turn with half roll



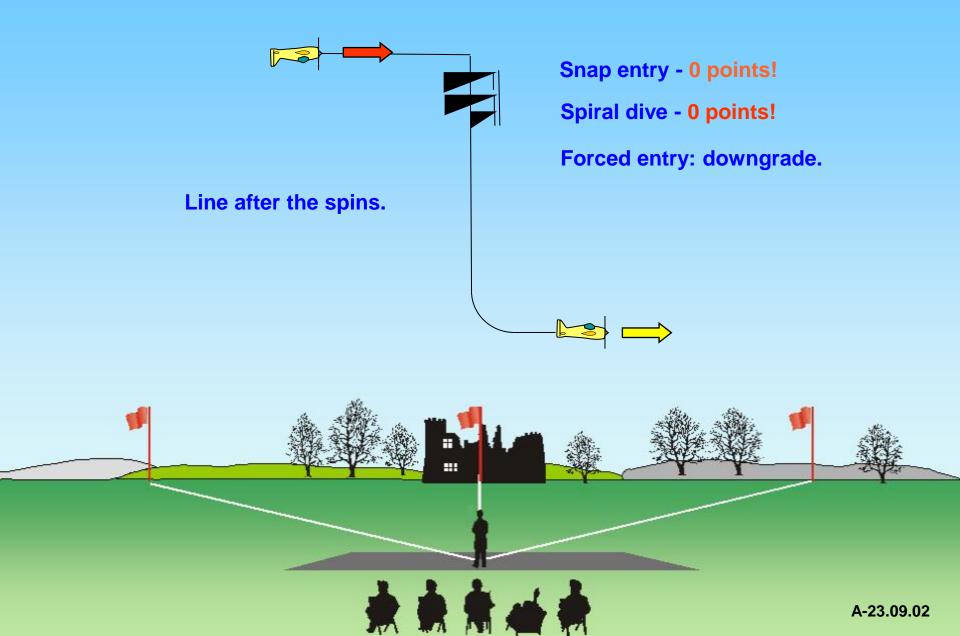


#### A-23.09 Inverted Spin two and a half turns





#### A-23.09 Inverted Spin two and a half turns



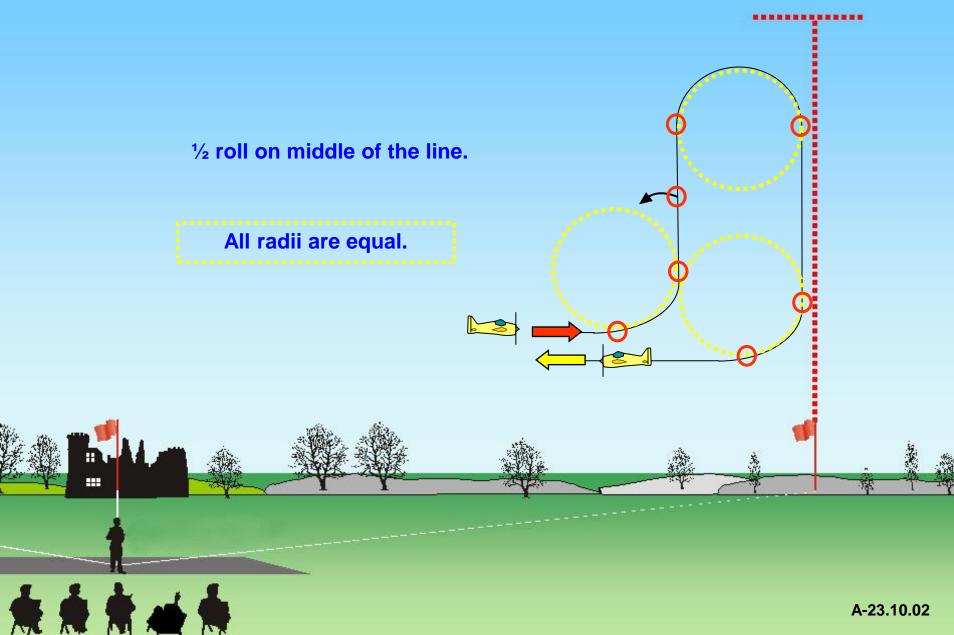


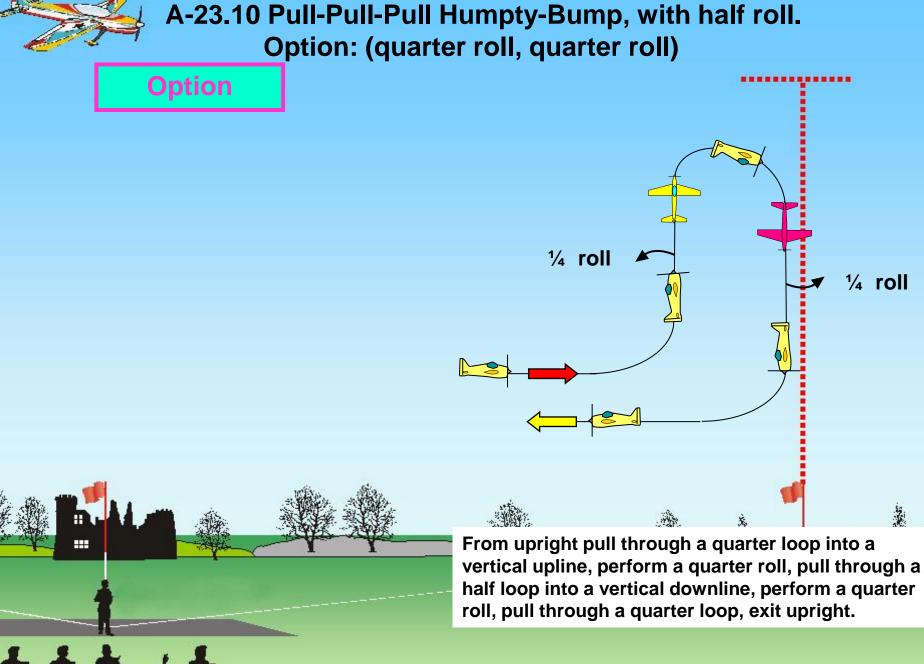
#### A-23.10 Pull-Pull Humpty-Bump, with half roll. Option: (quarter roll, quarter roll)

 $\frac{1}{2}$  roll Ŧ Ŧ From upright, pull through a quarter loop into a vertical upline, perform a half roll, pull through a half loop into a vertical downline, pull through a quarter loop, exit upright.



#### A-23.10 Pull-Pull Humpty-Bump, with half roll. Option: (quarter roll, quarter roll)

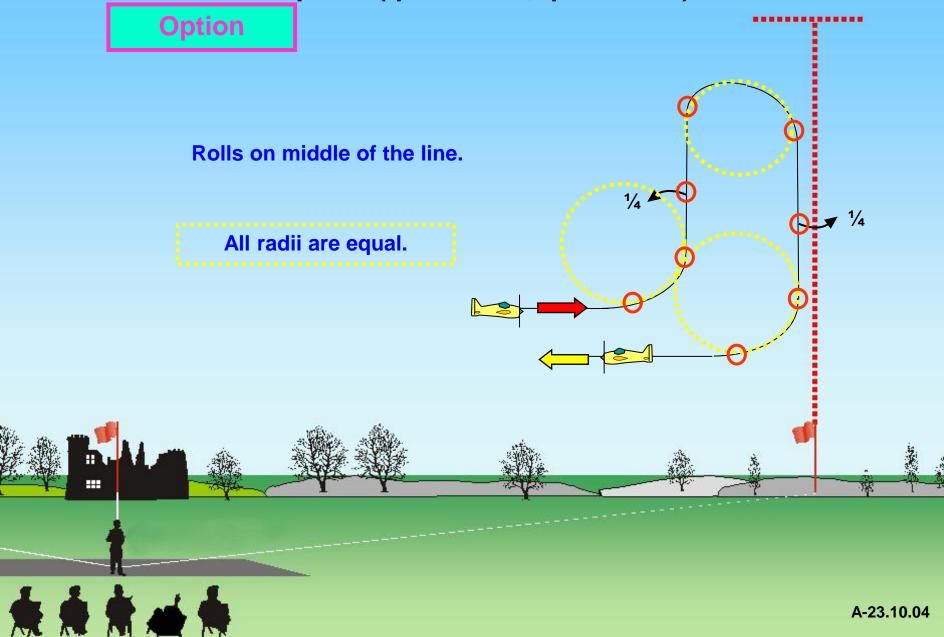




A-23.10.03

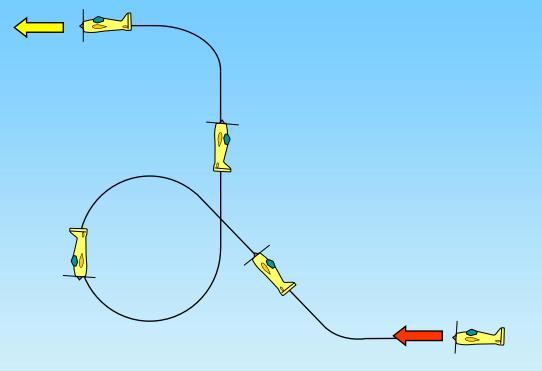


#### A-23.10 Pull-Pull Humpty-Bump, with half roll. Option: (quarter roll, quarter roll)





#### A-23.11 Reverse Figure ET



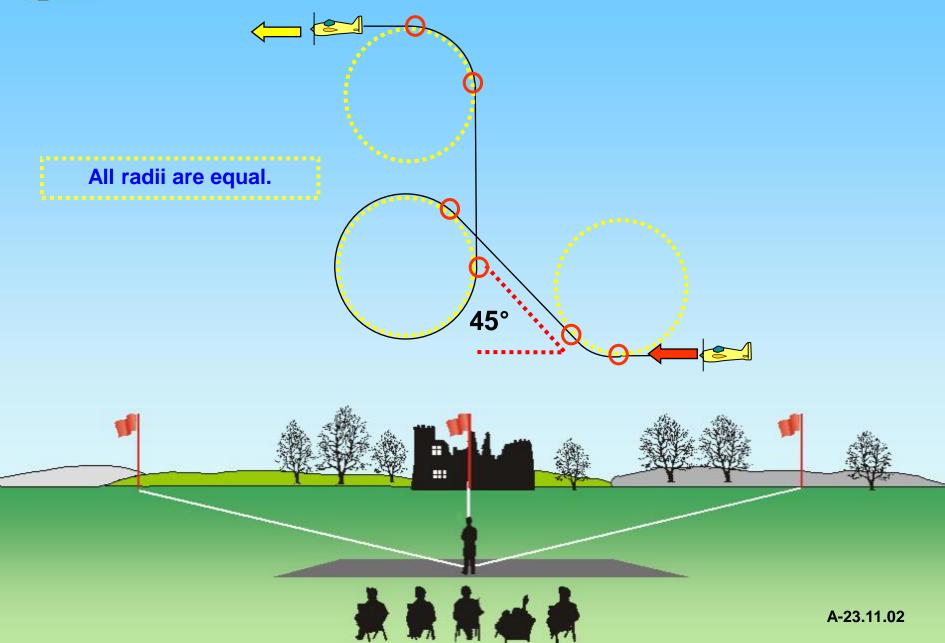


From upright pull through a one eighth loop into a forty five degree upline, push through a seven eighths loop into a vertical upline, push through a quarter loop, exit upright. (*Note: The vertical line must be in the center.*)



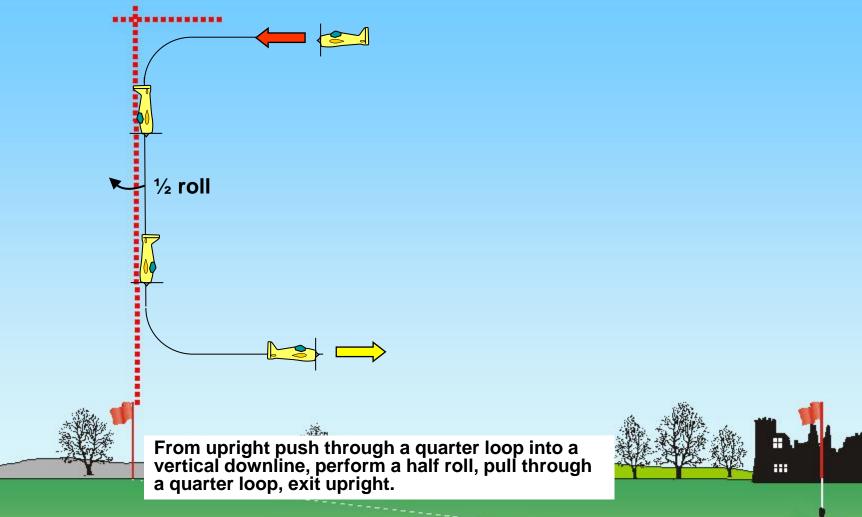


#### A-23.11 Reverse Figure ET





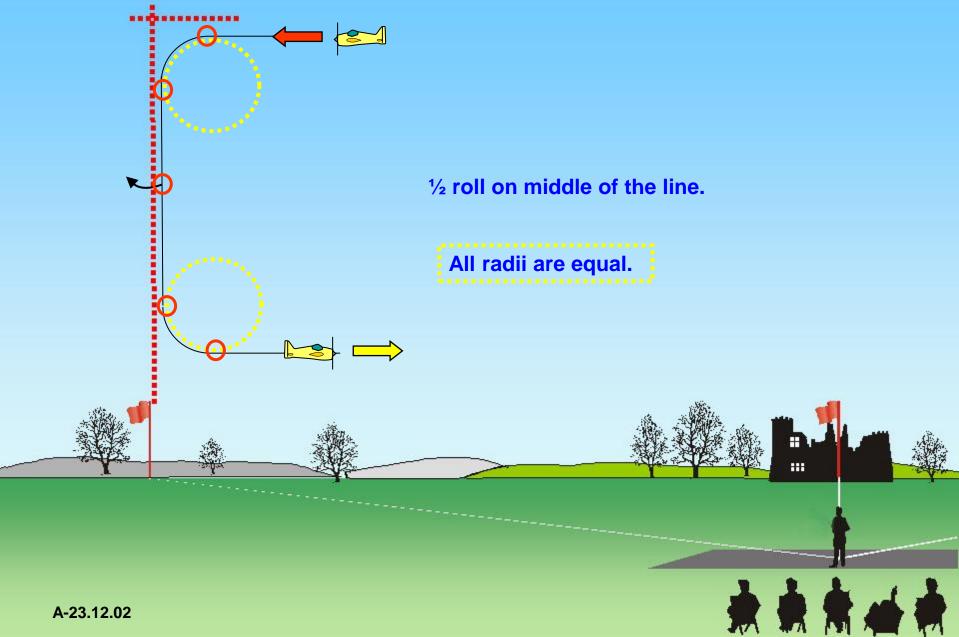
#### A-23.12 Half Square Loop with half roll



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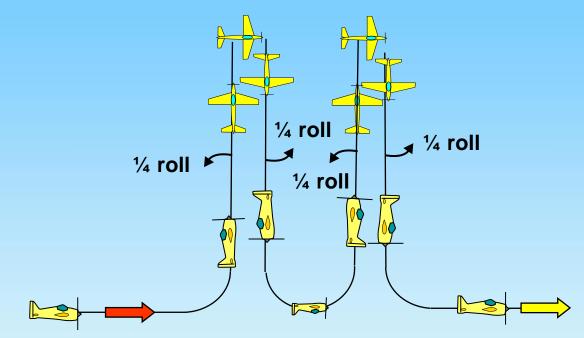


#### A-23.12 Half Square Loop with half roll





A-23.13 Figure M, with quarter rolls

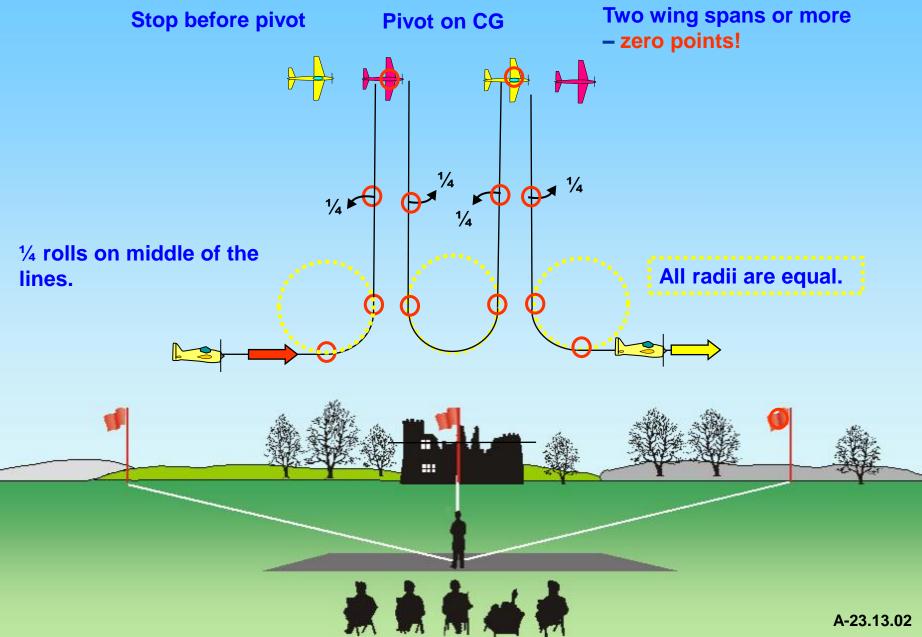


From upright pull through a quarter loop into a vertical upline, perform a quarter roll, perform a stall turn into a vertical downline, perform a quarter roll, push through a half loop into a vertical upline, perform a quarter roll, perform a stall turn to a vertical downline, perform a quarter roll, pull through a quarter loop, exit upright.

SEC.



#### A-23.13 Figure M, with quarter rolls





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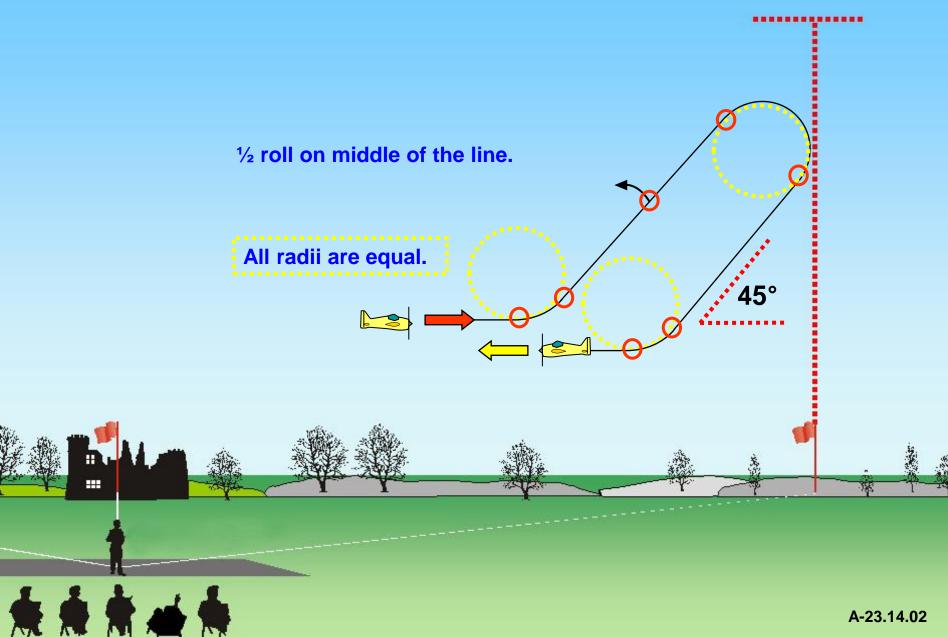
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#### A-23.14 Trombone

<sup>1</sup>∕₂ roll From upright pull through a one eighth loop into a forty five degree upline, perform a half roll, pull through a half loop into a forty five degree downline, pull through a one eighth loop, exit upright. A-23.14.01

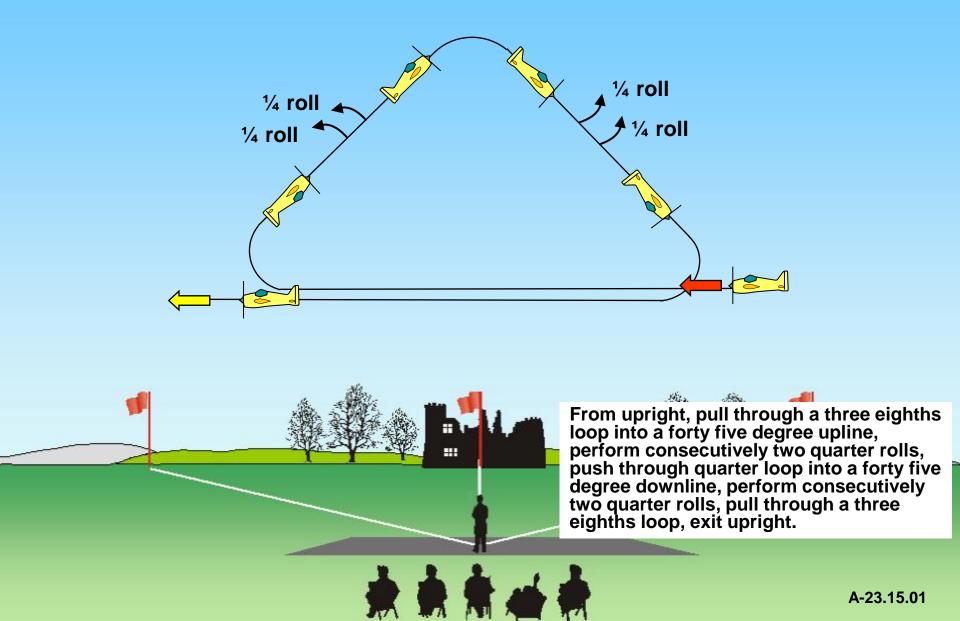


#### A-23.14 Trombone



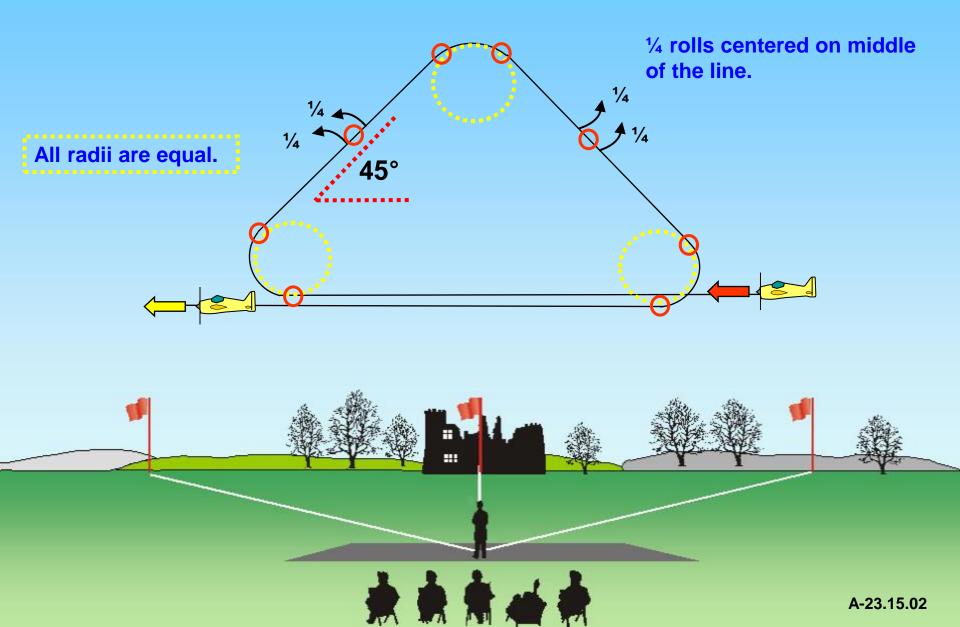


#### A-23.15 Triangle with two consecutive quarter rolls, two consecutive quarter rolls





#### A-23.15 Triangle with two consecutive quarter rolls, two consecutive quarter rolls





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#### A-23.16 Reverse Shark Fin with half roll



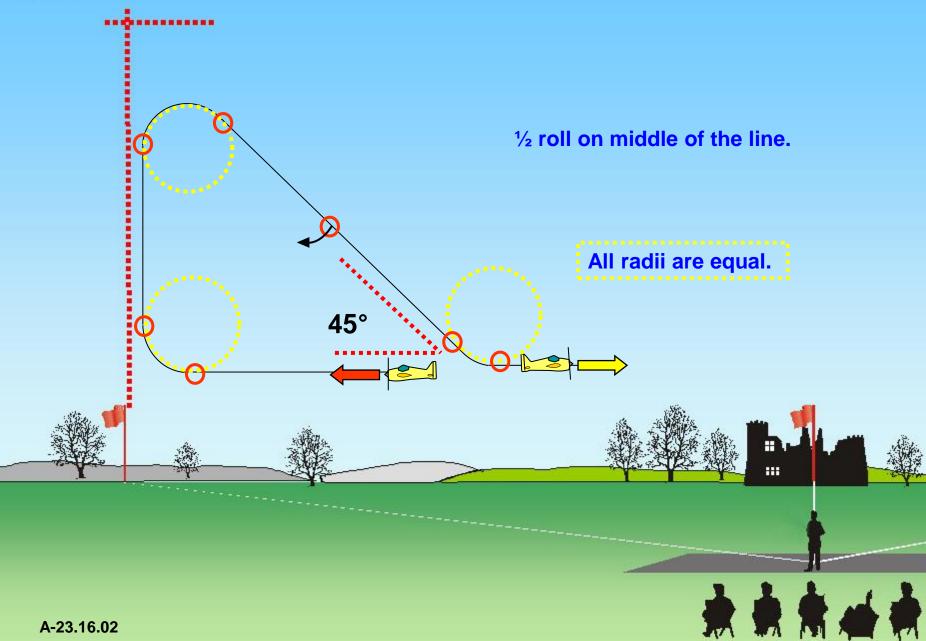
From upright pull through a quarter loop into a vertical upline, pull through a three eighths loop into a forty five degree downline, perform a half roll, pull through a one eighth loop, exit upright.





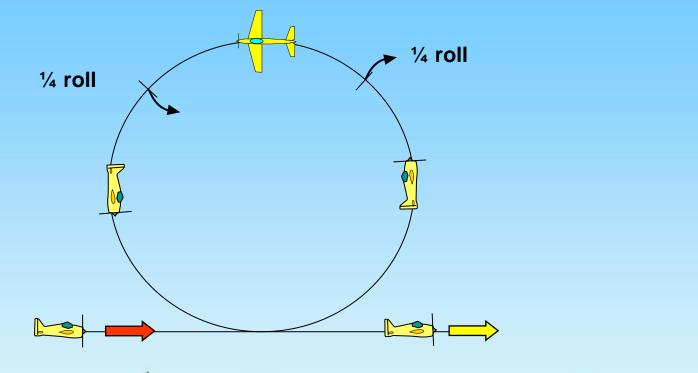


#### A-23.16 Reverse Shark Fin with half roll





#### A-23.17 Loop with Knife-Edge Flight

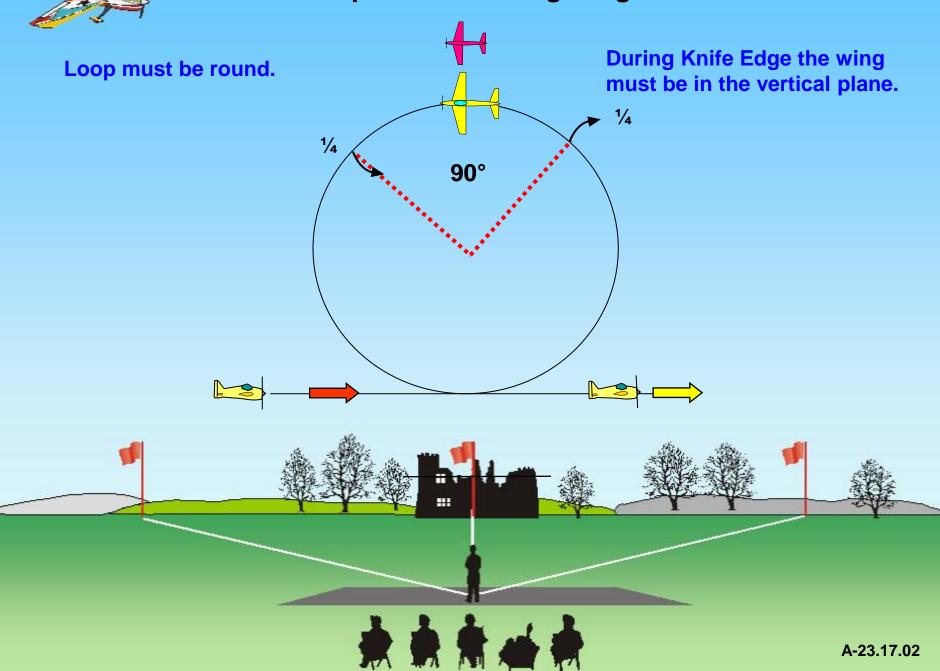




From upright pull through a loop with a knife-edge flight over the top ninety degrees, exit upright.



#### A-23.17 Loop with Knife-Edge Flight

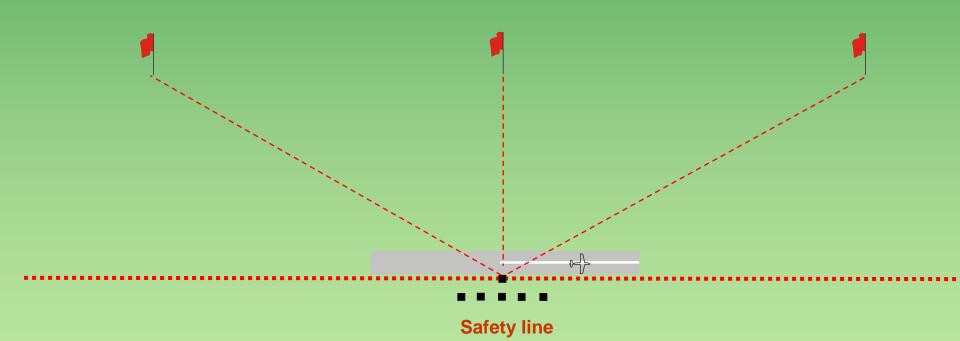




# Landing procedure ( not judged, not scored )

The direction of the landing may be different to the take off.





### **Forget WHO** is flying

(friend, rival, countryman, flier from other nation)

### **Forget WHAT is flying**

(2-stroke, 4-stroke, electric)

### LOOK ONLY AT LINES DESCRIBED IN THE SKY!

(and the precision, smoothness, positioning, and size)

**Bob Skinner** 



