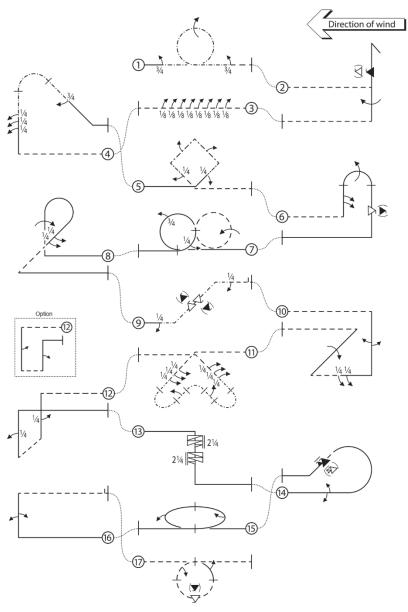
Flying and Judging F3A



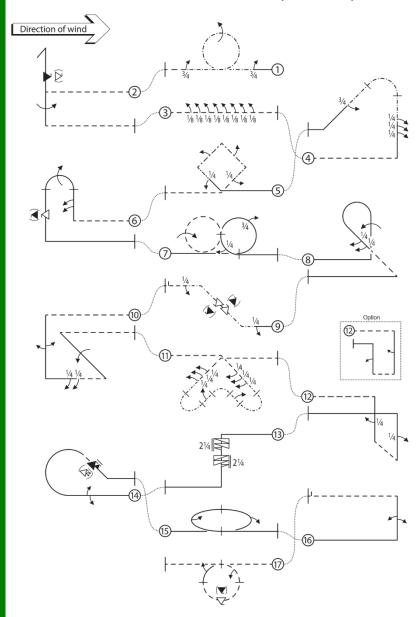
SCHEMATIC MANOEUVRE ILLUSTRATIONS SCHEDULE F-23

FINAL SCHEDULE F-23 (2021-2023)



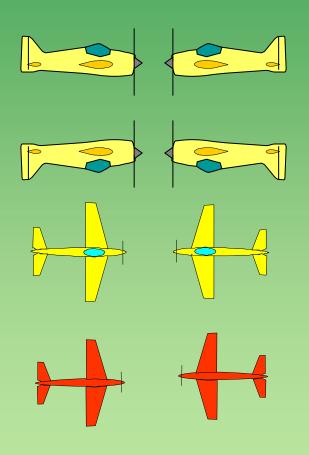
© CIAM F3 Aerobatics Drawings by Ken Hirose April. 2019

FINAL SCHEDULE F-23 (2021-2023)





Explanations:



Aircraft upright

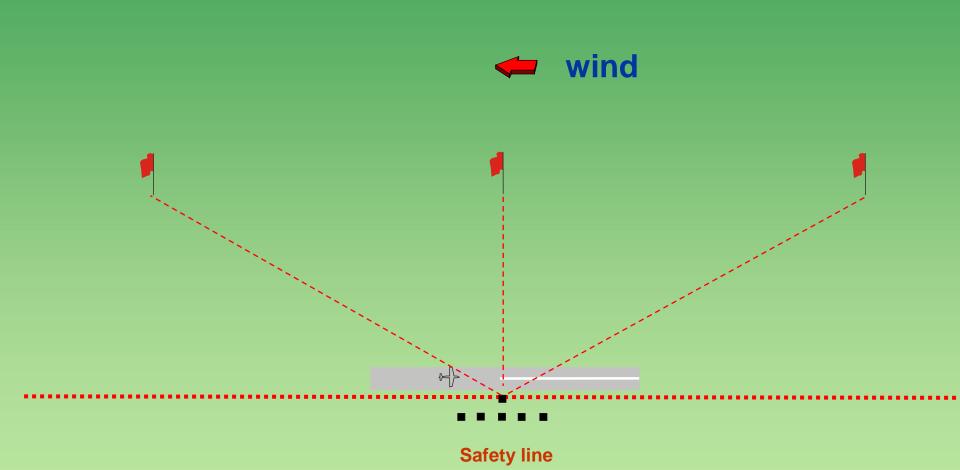
Aircraft inverted

Aircraft in Knife-Edge View from Top

Aircraft in Knife-Edge View from Below

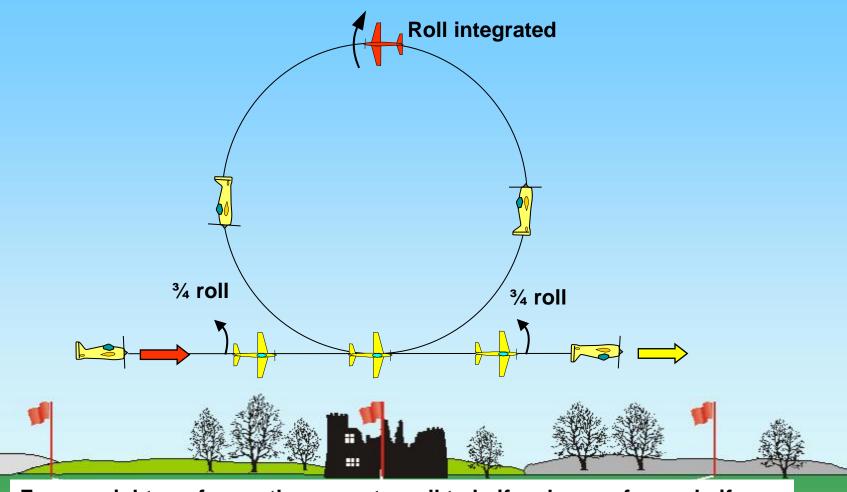


Take-off procedure (not judged, not scored)



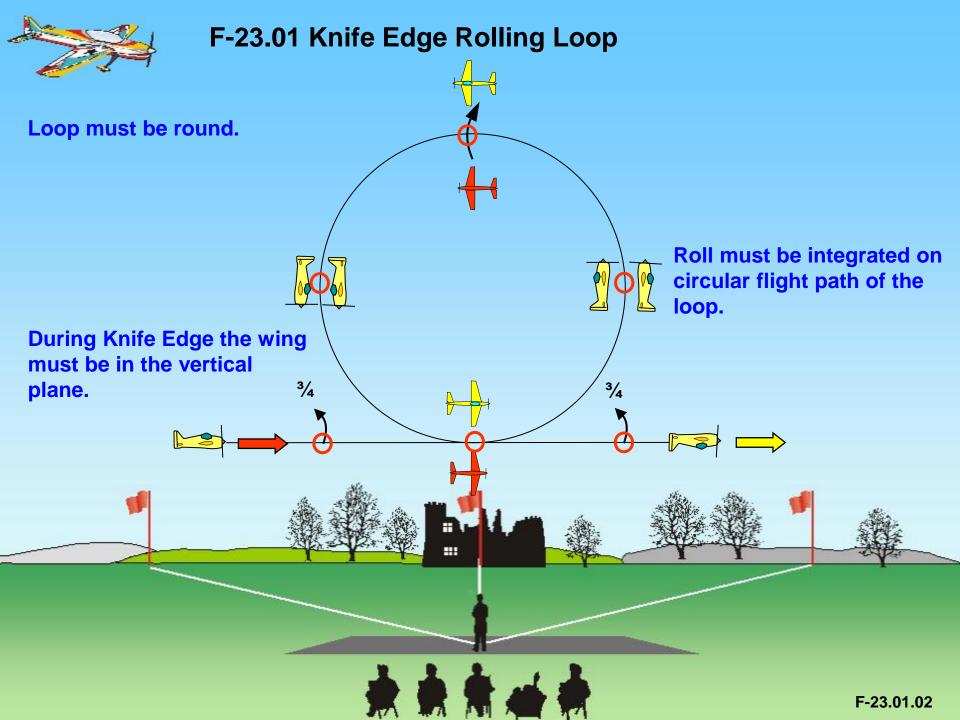


F-23.01 Knife Edge Rolling Loop



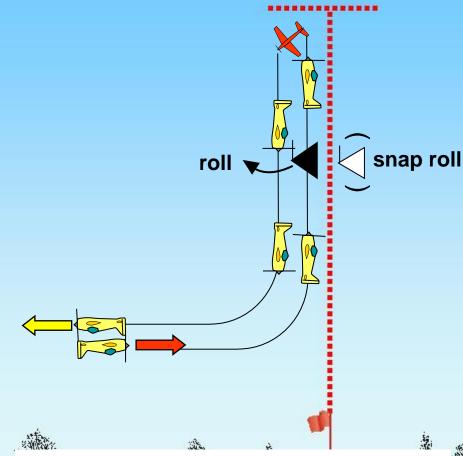
From upright, perform a three quarter roll to knife edge, perform a knife edge loop while performing a roll integrated, perform a three quarter roll, exit inverted.







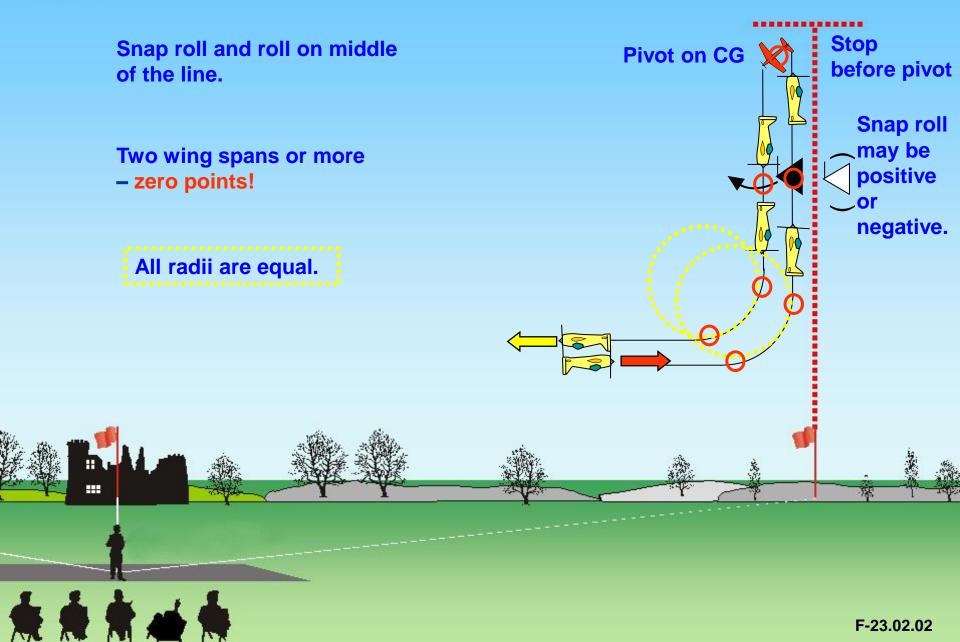
F-23.02 Stall Turn with snap roll, roll



From inverted, push through a quarter loop into vertical upline, perform a snap roll, perform a stall turn into a vertical downline, perform a roll, push through a quarter loop, exit inverted.



F-23.02 Stall Turn with snap roll, roll





F-23.03 Eight consecutive one eighth rolls

Eight consecutive 1/8 rolls





From inverted, perform consecutively eight, one eighth rolls, exit inverted.





F-23.03 Eight consecutive one eighth rolls

Lines between part rolls must be short and of equal length.

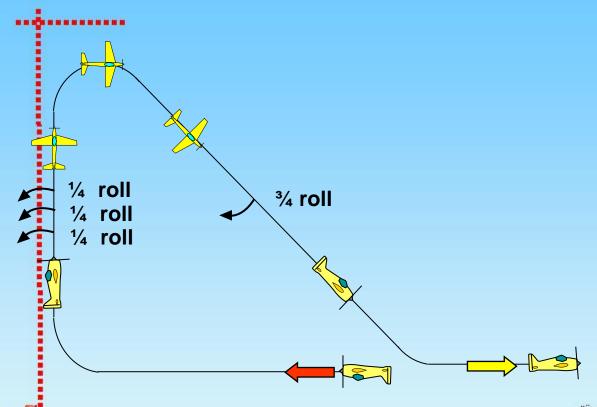
1/8 1/8 1/8 1/8 1/8 1/8 1/8 1/8







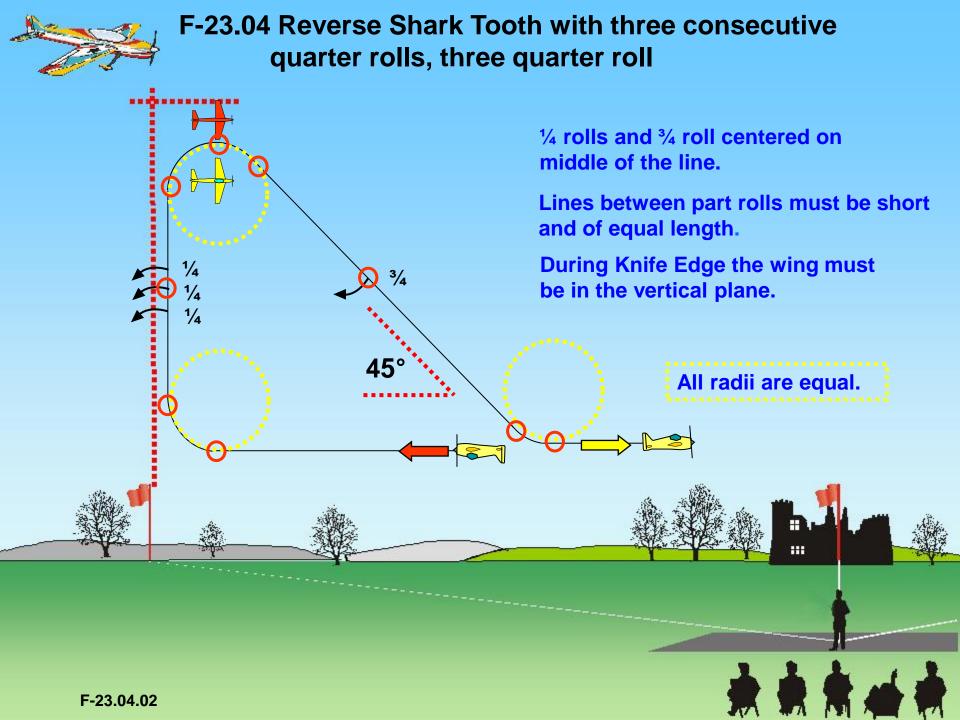
F-23.04 Reverse Shark Tooth with three consecutive quarter rolls, three quarter roll



From inverted, push through a quarter loop into a vertical upline, perform consecutively three quarter rolls, perform a three eighth knife edge loop into a forty five degree downline, perform a three quarter roll, pull through a one eighth loop, exit upright.

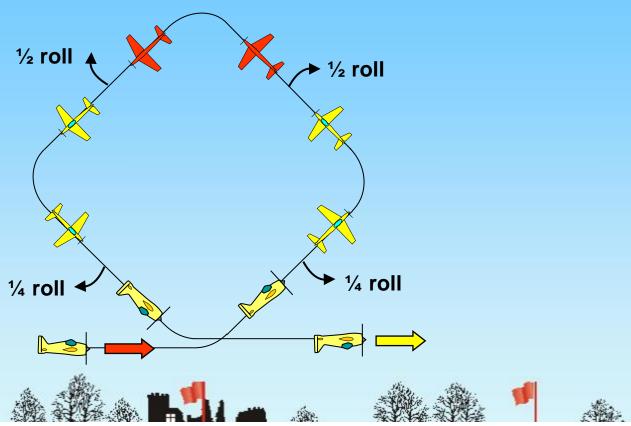






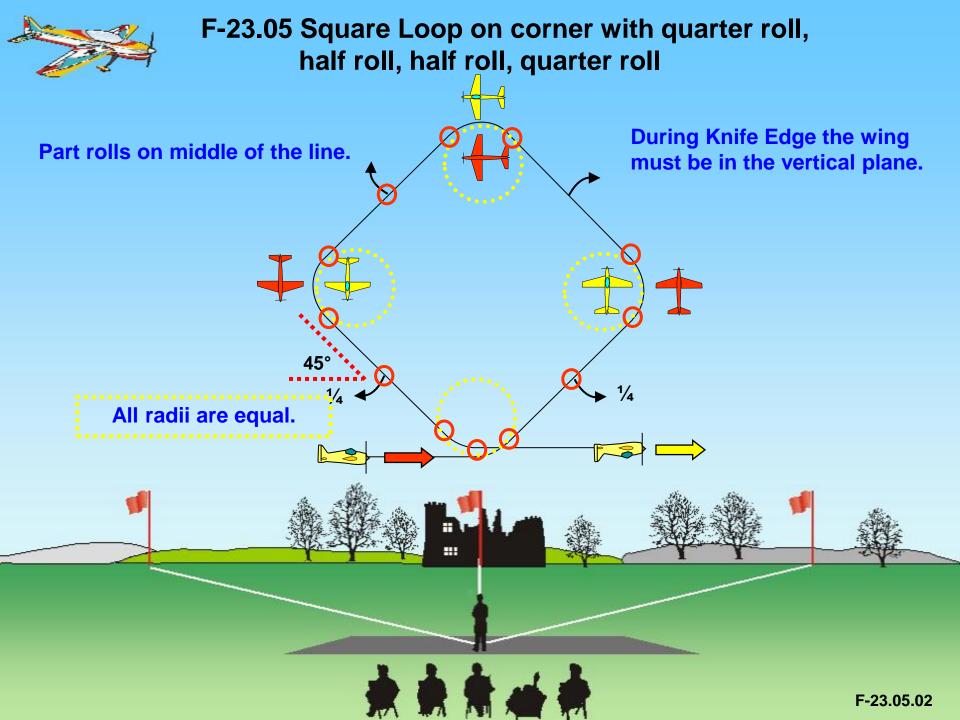


F-23.05 Square Loop on corner with quarter roll, half roll, half roll, quarter roll



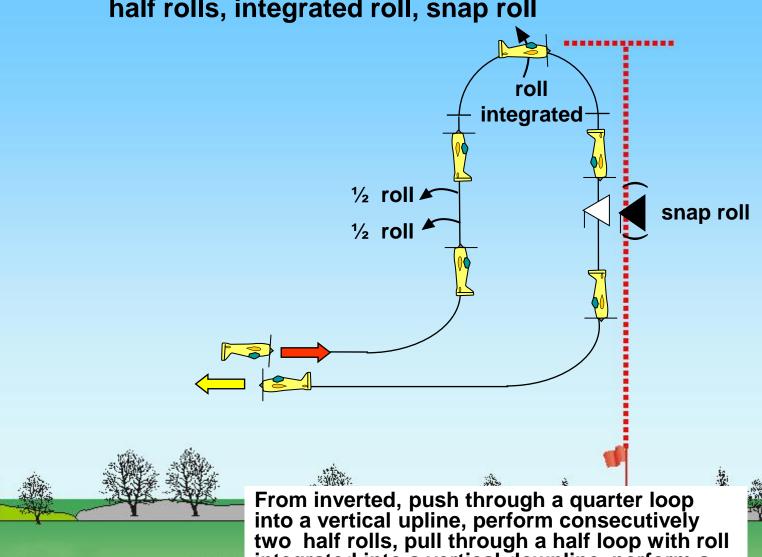
From upright, pull through a one eighth loop into a forty five degree upline, perform a quarter roll to knife edge, perform a quarter knife edge loop into forty five degree upline, perform a half roll, perform a quarter knife edge loop into a forty five degree downline, perform a half roll, perform a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







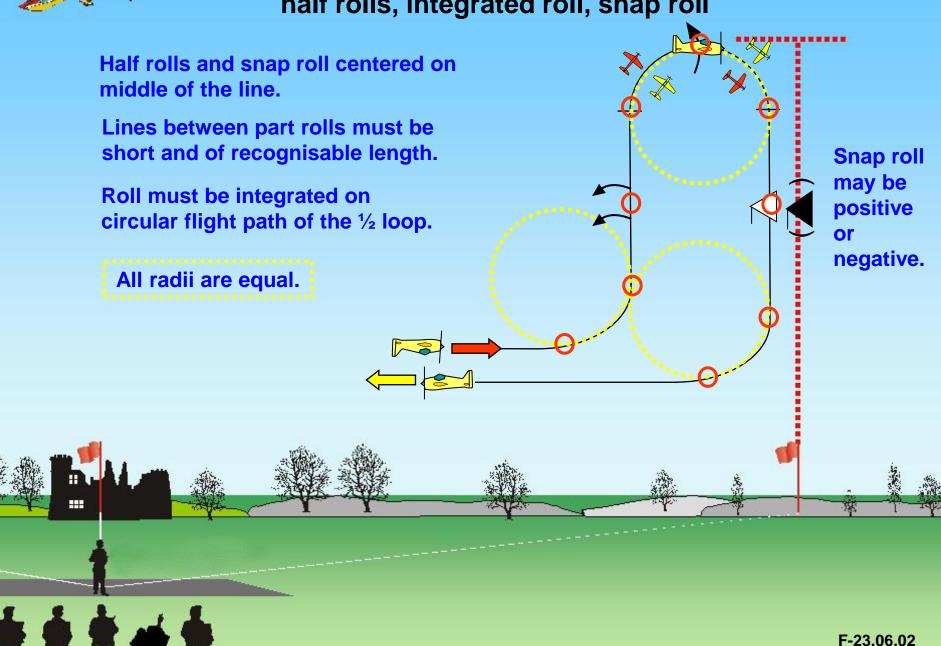
F-23.06 Push-Pull-Pull Humpty-Bump with consecutive half rolls, integrated roll, snap roll



From inverted, push through a quarter loop into a vertical upline, perform consecutively two half rolls, pull through a half loop with roll integrated into a vertical downline, perform a snap roll, pull through quarter loop, exit upright.

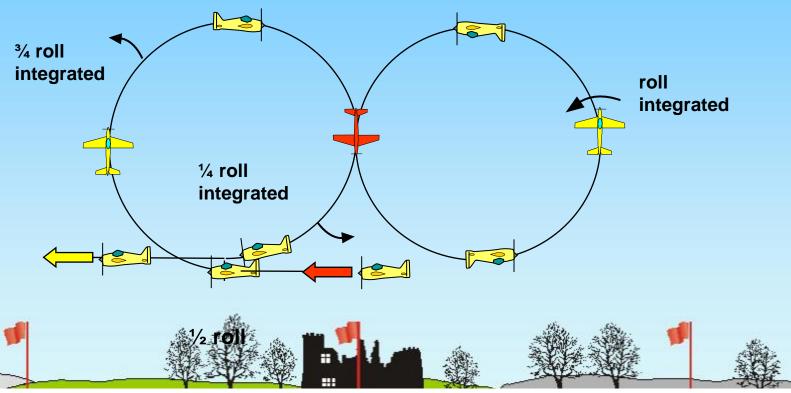


F-23.06 Push-Pull-Pull Humpty-Bump with consecutive half rolls, integrated roll, snap roll





F-23.07 Horizontal Eight with rolls integrated

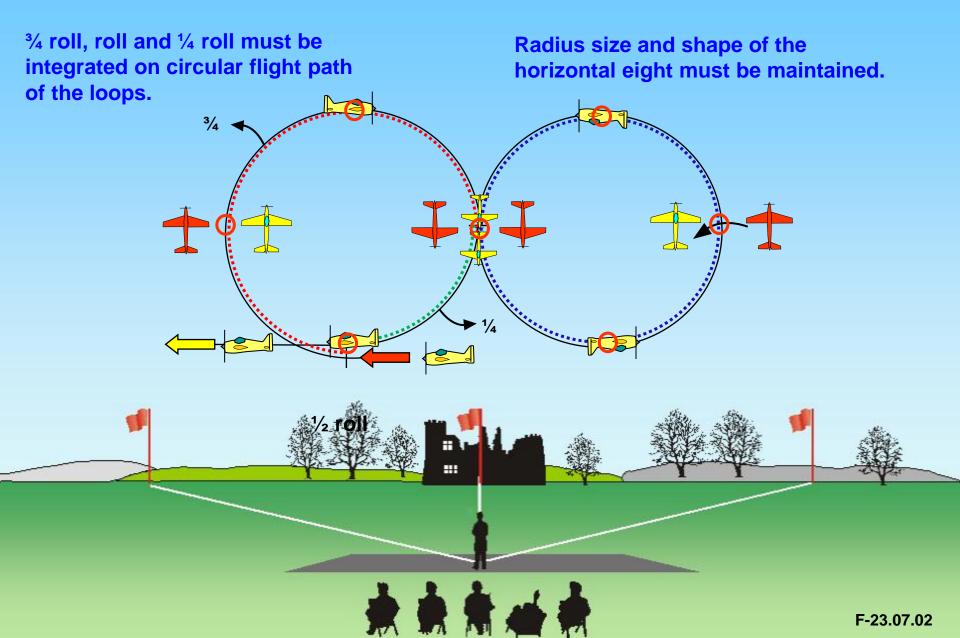


From upright, fly past center, pull through a three quarter loop while performing the first three quarter roll of two consecutive rolls integrated, then while continuing rolling perform a second loop (one roll integrated), while continuing rolling complete last quarter of first loop (quarter roll integrated), exit upright



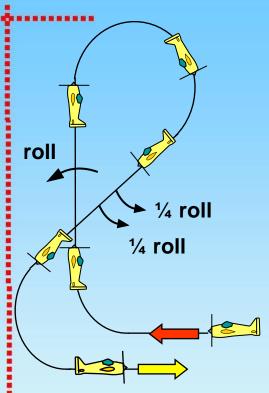


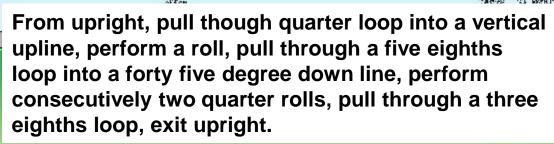
F-23.07 Horizontal Eight with rolls integrated





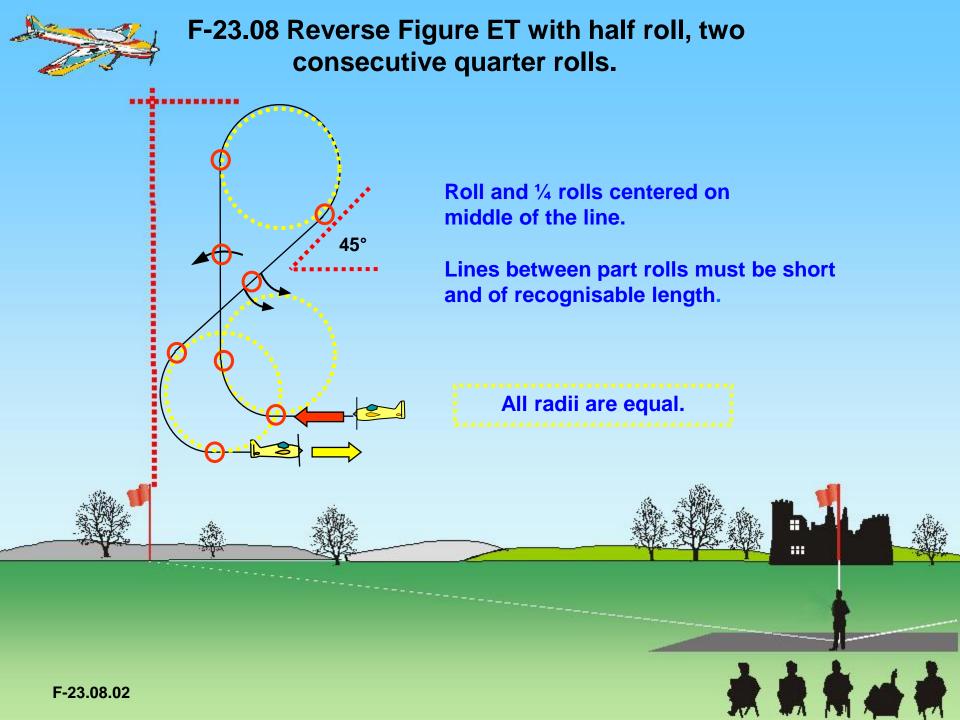
F-23.08 Reverse Figure ET with half roll, two consecutive quarter rolls.





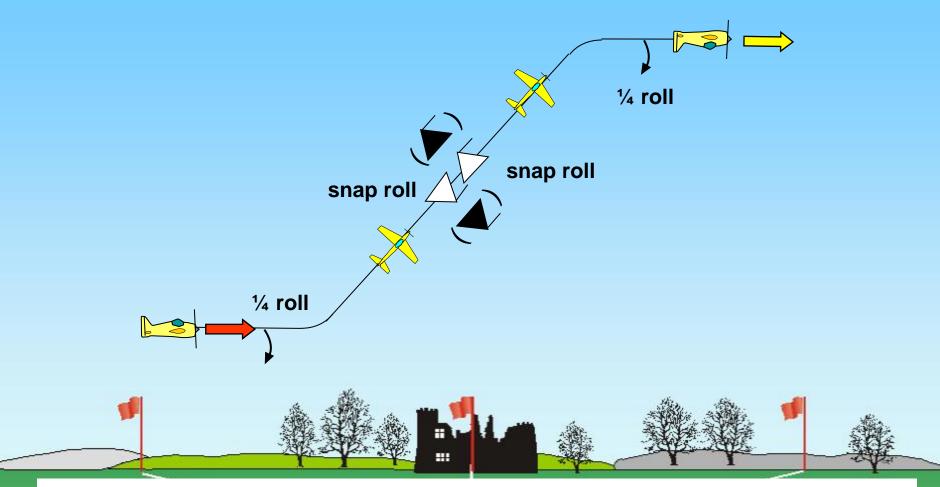








F-23.09 Knife Edge Forty Five Degree Upline with two consecutive snap rolls in opposite direction

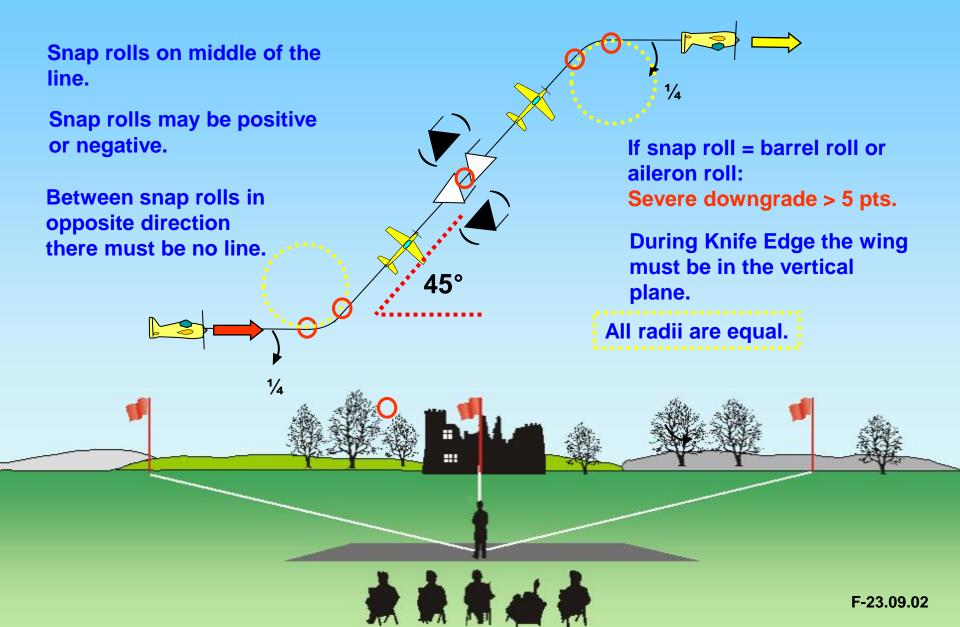


From upright, perform a quarter roll to knife edge, perform a one eighth knife edge loop into a forty five degree upline, perform consecutively two snap rolls in opposite direction, perform a one eighth knife edge loop, perform a quarter roll, exit inverted.



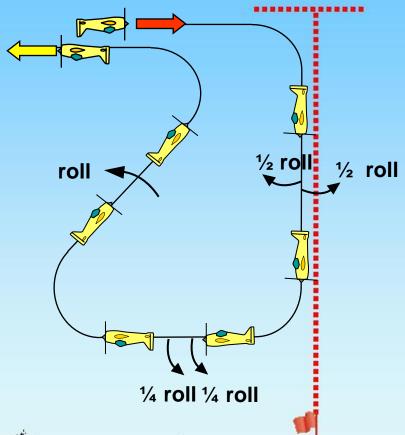


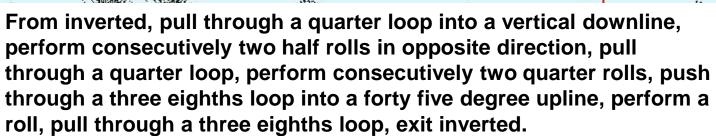
F-23.09 Knife Edge Forty Five Degree Upline with two consecutive snap rolls in opposite direction





F-23.10 Reverse Vertical Shark Tooth with two consecutive half rolls in opposite direction, two consecutive quarter rolls, roll







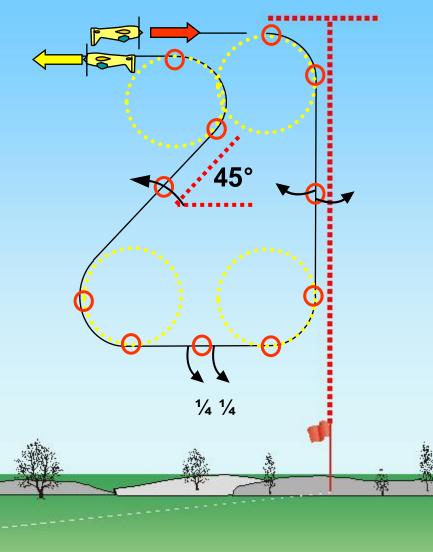
F-23.10 Reverse Vertical Shark Tooth with two consecutive half rolls in opposite direction, two consecutive quarter rolls, roll

Part rolls and roll centered on middle of the line.

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

Lines between part rolls must be short and of recognisable length.

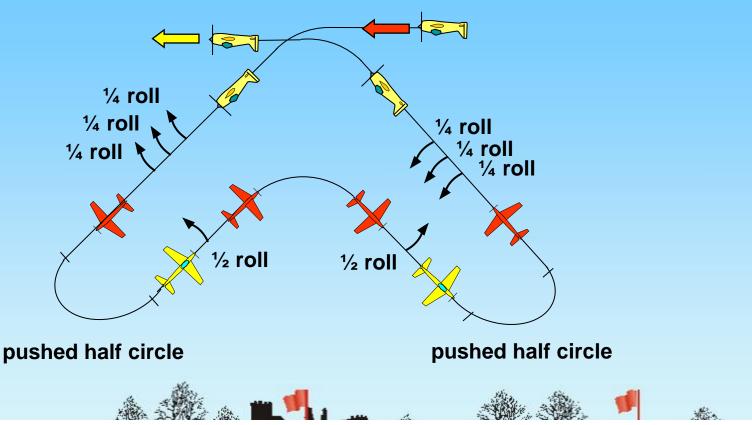
All radii are equal.







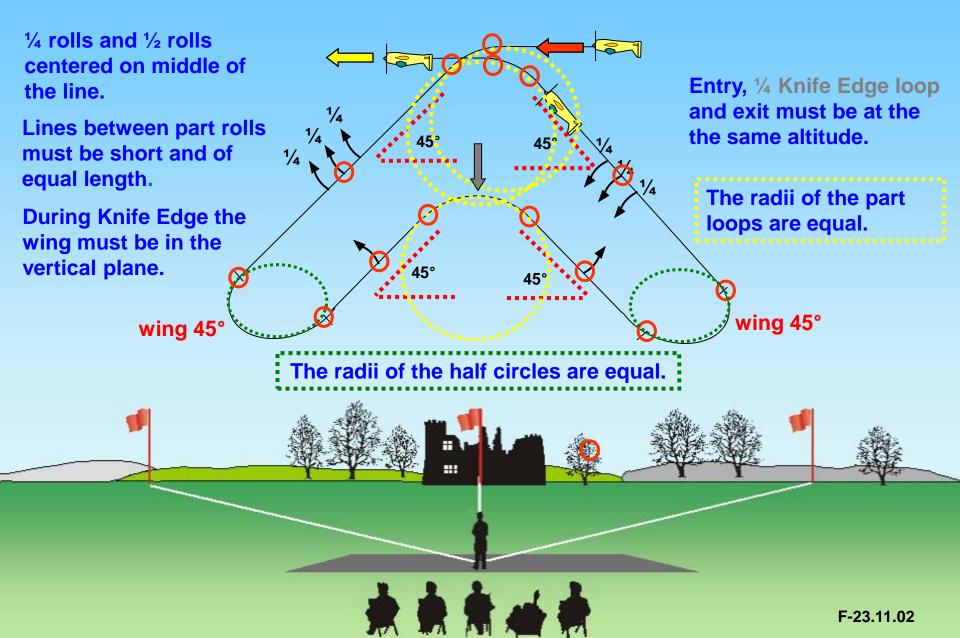
F-23.11 Reverse Double Fighter Turn with three consecutive quarter rolls, half roll, three consecutive quarter rolls



From inverted, pull through a one eighth loop into a forty five degree downline, perform consecutively three quarter rolls, push through a half knife edge circle into a forty five degree upline, perform a half roll, perform a quarter knife edge loop into a forty five degree down-line, perform a half roll, push through a half knife edge circle into a forty five degree upline, perform consecu-tively three quarter rolls, pull through an eighth loop, exit inverted.

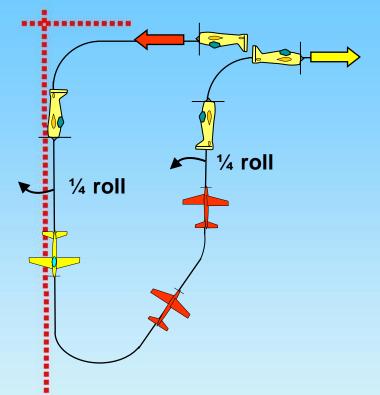


F-23.11 Reverse Double Fighter Turn with three consecutive quarter rolls, half roll, three consecutive quarter rolls





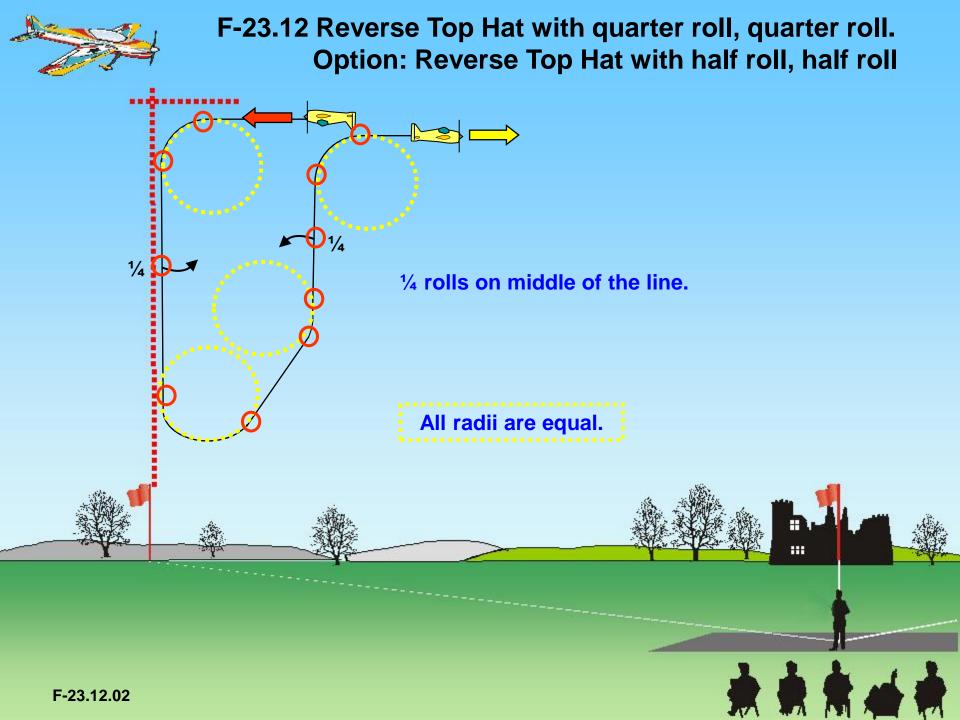
F-23.12 Reverse Top Hat with quarter roll, quarter roll. Option: Reverse Top Hat with half roll, half roll



From inverted, pull through a quarter loop into a vertical downline, perform a quarter roll, push through a quarter loop into a horizontal line, push through a quarter loop into a vertical upline, perform a quarter roll, push through a quarter loop, exit upright.

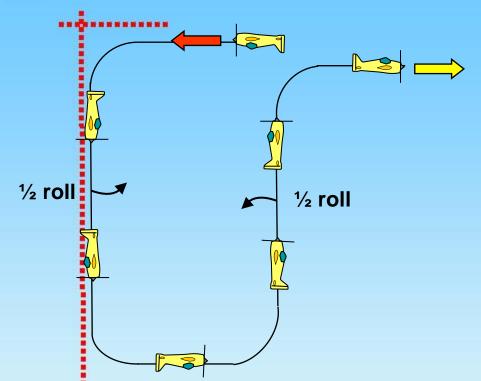








F-23.12 Reverse Top Hat with quarter roll, quarter roll. Option: Reverse Top Hat with half roll, half roll



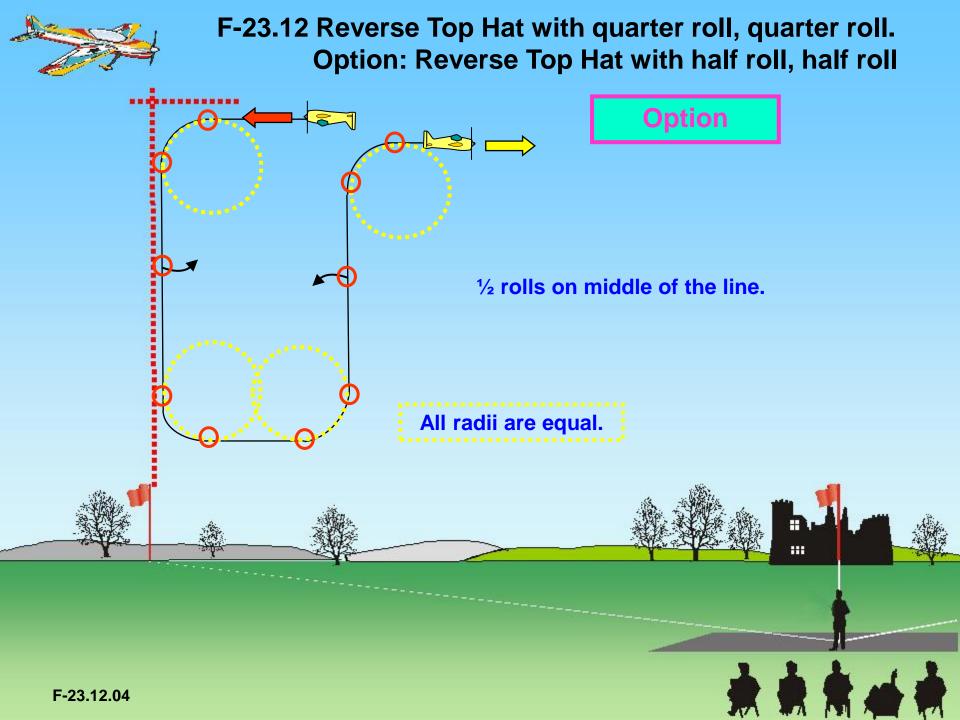
Option



From inverted, pull through a quarter loop into a vertical downline, perform a half roll, push through a quarter loop into a horizontal line, push through a quarter loop into a vertical upline, perform a half roll, push through a quarter loop, exit upright.

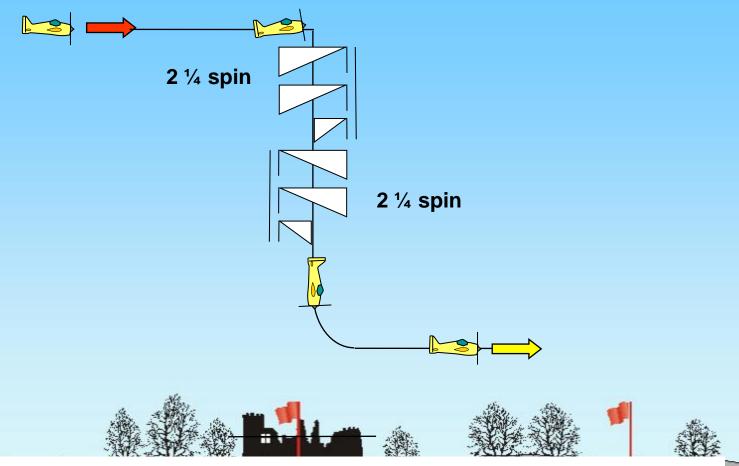








F-23.13 Spin with two and a quarter turns, two and a quarter turns in opposite direction

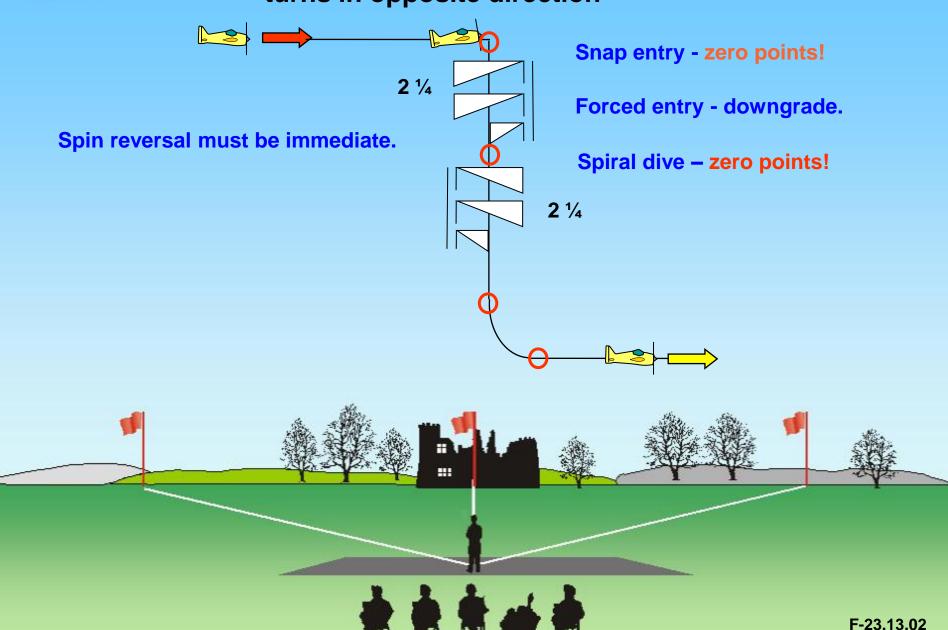


From upright, perform a spin with two and a quarter turns, perform immediately another spin with two and a quarter turns in opposite direction, perform a vertical downline, pull through a quarter loop, exit upright.



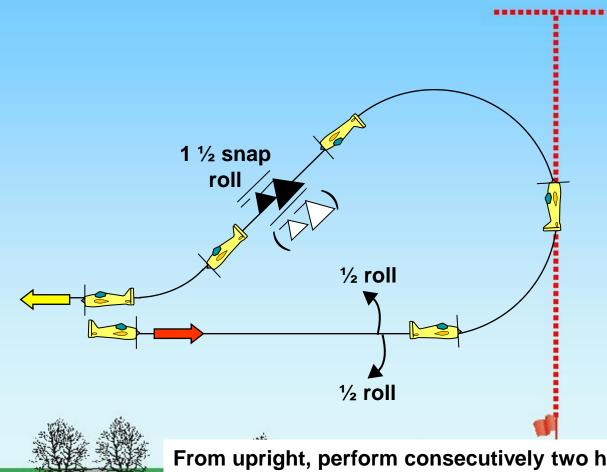


F-23.13 Spin with two and a quarter turns, two and a quarter turns in opposite direction





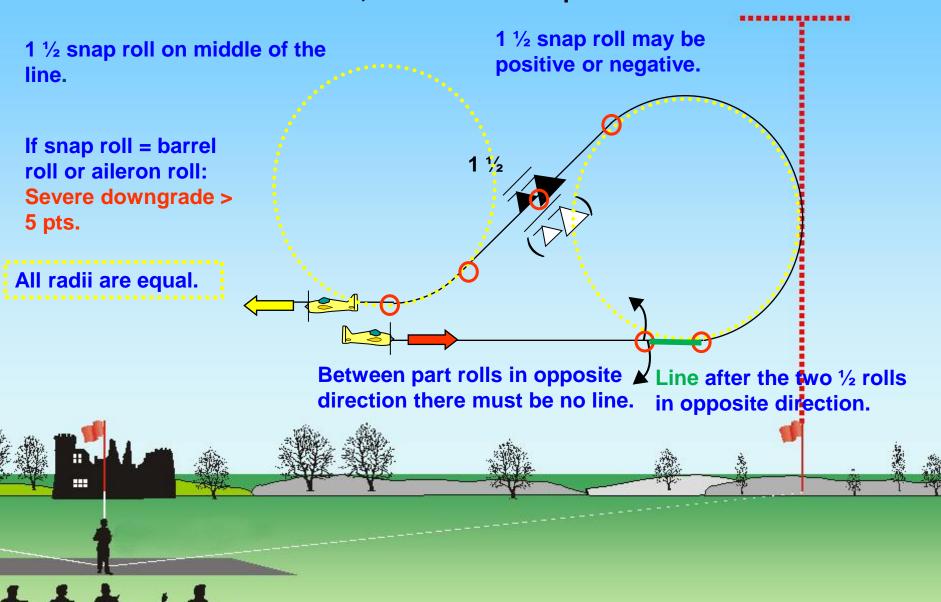
F-23.14 Half Cuban Eight, with two half rolls in opposite direction, one and half snap roll



From upright, perform consecutively two half rolls in opposite direction, pull through a five eighths loop into a forty five degree downline, perform a one and a half snap roll, pull through a one eighth loop, exit upright.

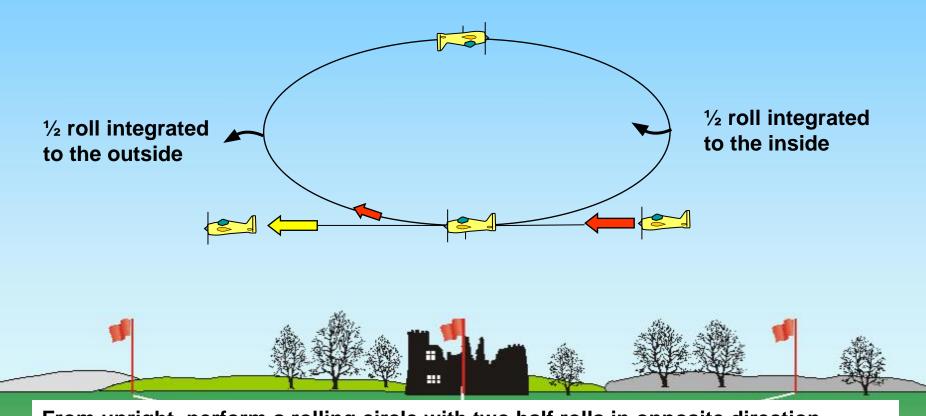


F-23.14 Half Cuban Eight, with two half rolls in opposite direction, one and half snap





F-23.15 Rolling Circle with half rolls in opposite direction integrated

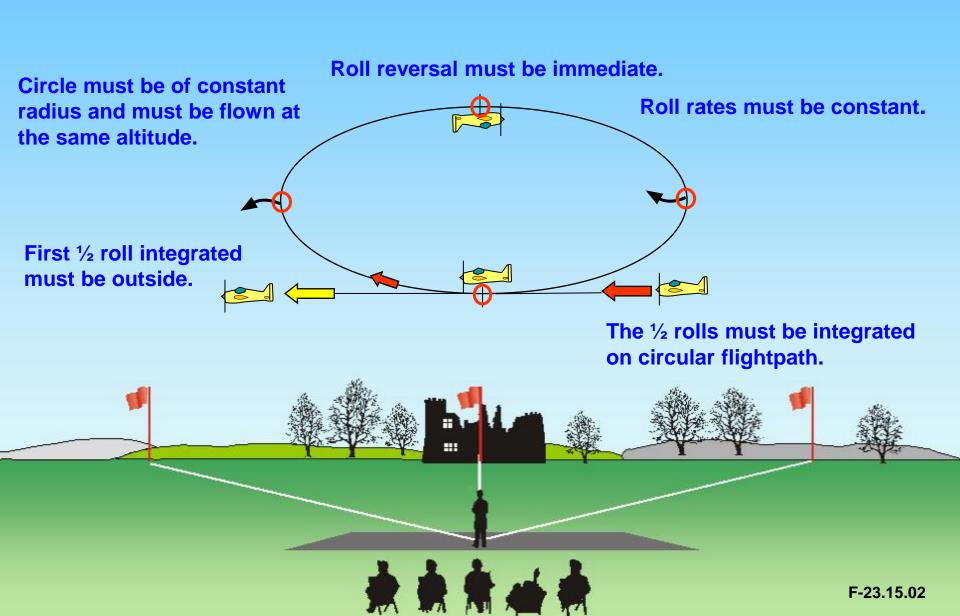


From upright, perform a rolling circle with two half rolls in opposite direction integrated, first half roll to outside, exit upright.



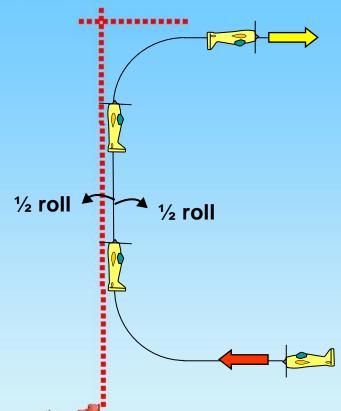


F-23.15 Rolling Circle with half rolls in opposite direction integrated



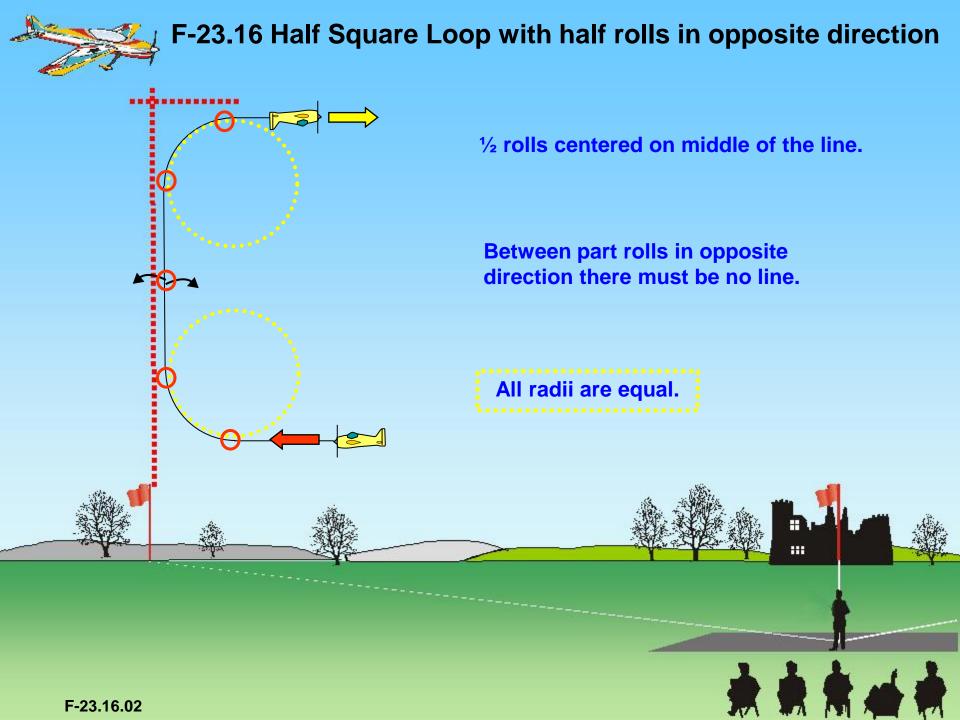


F-23.16 Half Square Loop with half rolls in opposite direction



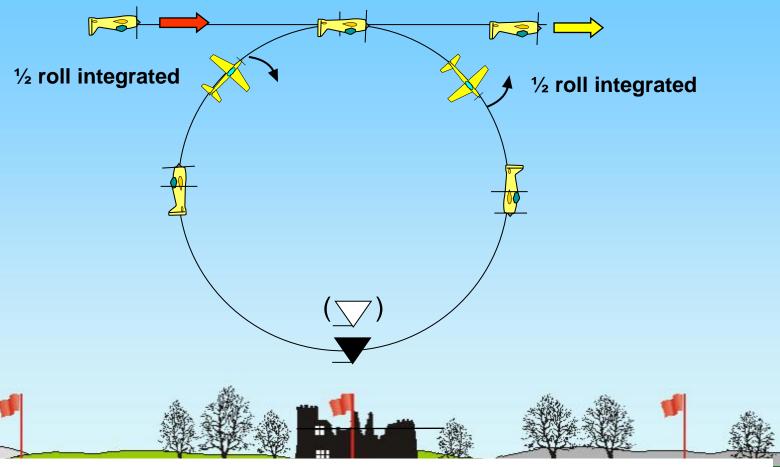
From upright, pull through a quarter loop into a vertical upline, perform consecutively two half rolls in opposite direction, pull through a quarter loop, exit inverted.







F-23.17 Avalanche (from top) with half roll integrated, snap, half roll integrated

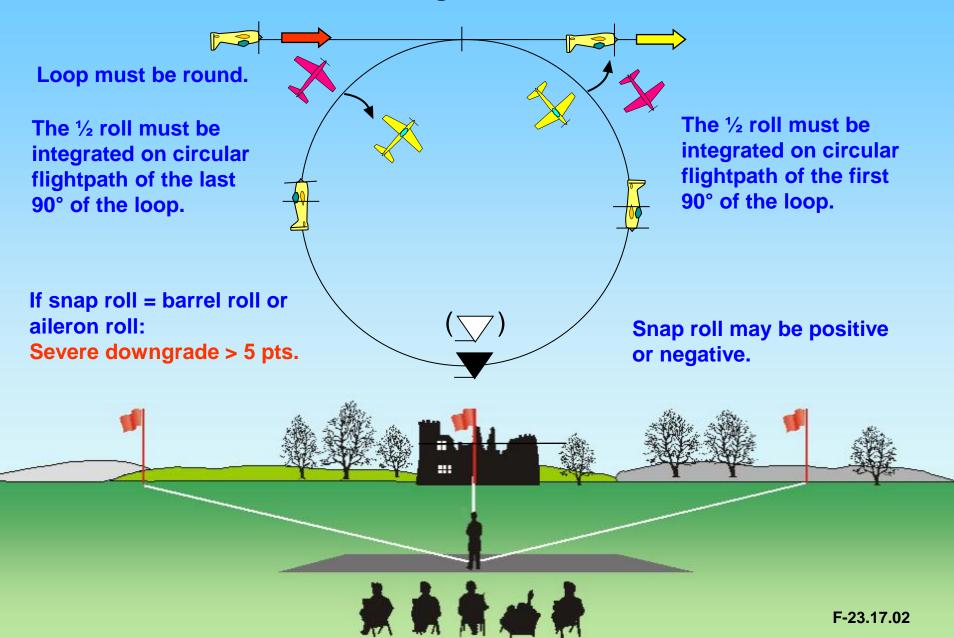


From inverted, pull through a loop while integrating a half roll in first ninety degrees, perform a snap roll at bottom of the loop, perform a half roll integrated in last ninety degrees, exit inverted.





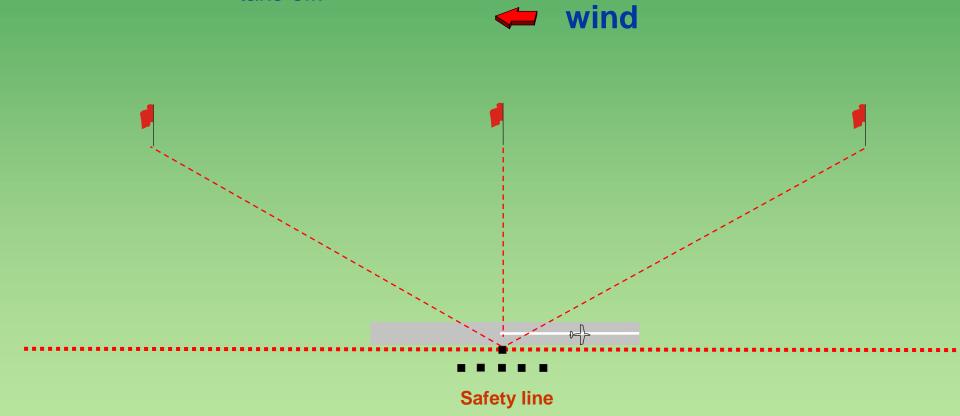
F-23.17 Avalanche (from top) with half roll integrated, snap, half roll integrated





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



Thank you!

© Peter Uhlig, April 2020