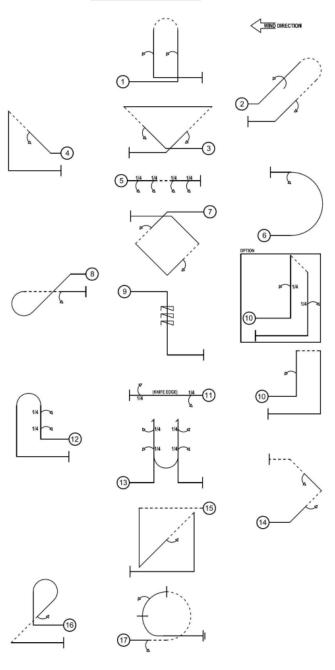
Flying and Judging F3A

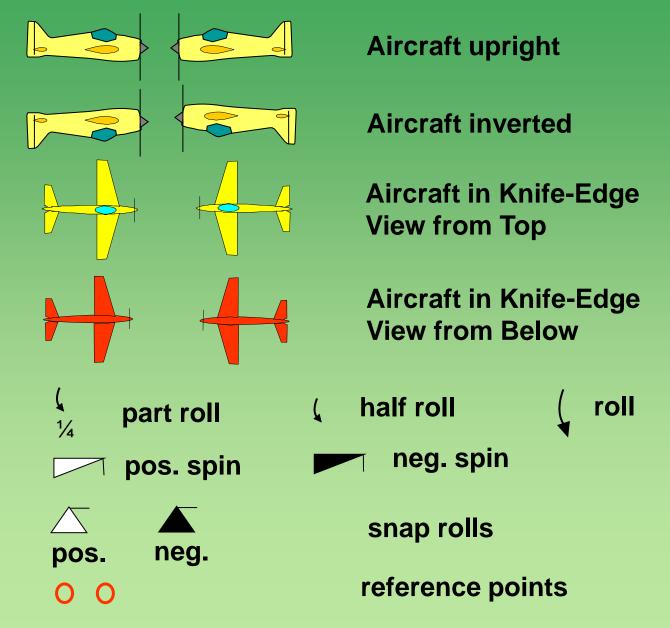


SCHEMATIC MANOEUVRE ILLUSTRATIONS SCHEDULE N-25





Explanations:





General

- When appropriate, entry and exit of centre manoeuvres must be at the same altitude, unless specified otherwise.
- Positioning adjustments in altitude are allowed in turnaround manoeuvres.

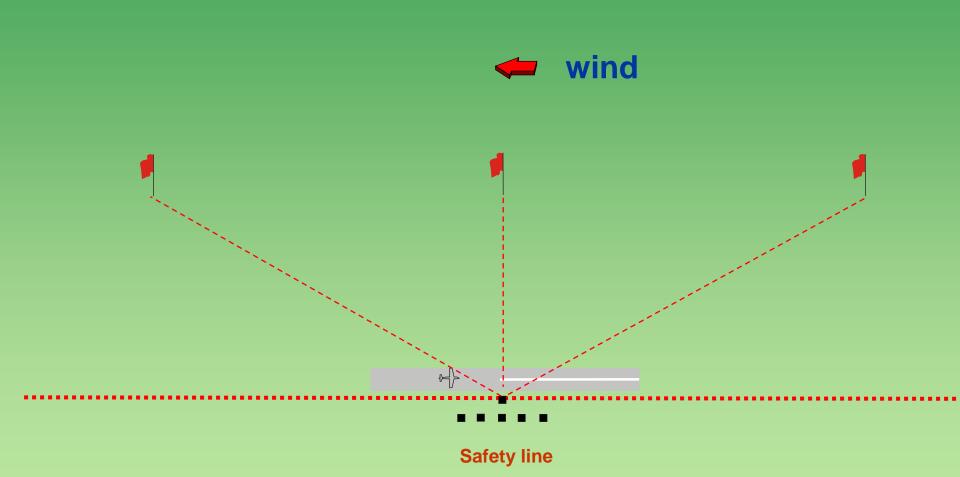
₽

.

Safety line

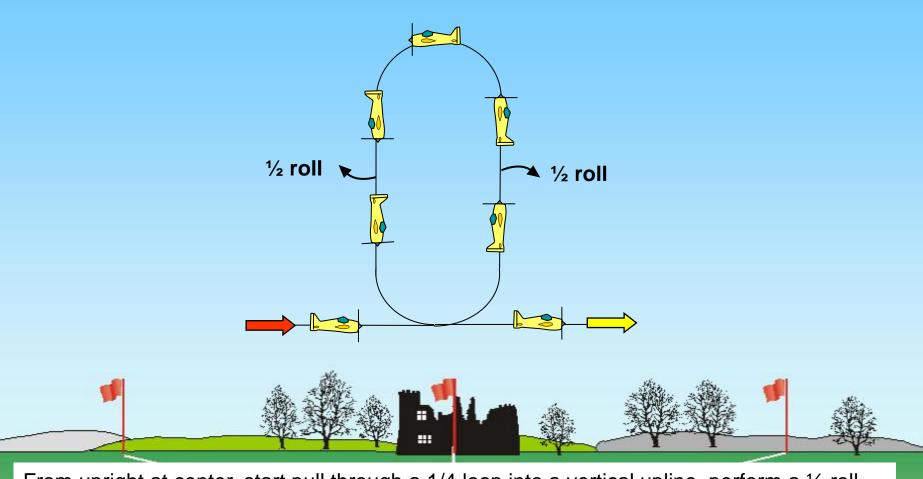


Take-off procedure (not judged, not scored)





N-25.01 Pull-push-pull Humpty Bump with two 1/2 rolls

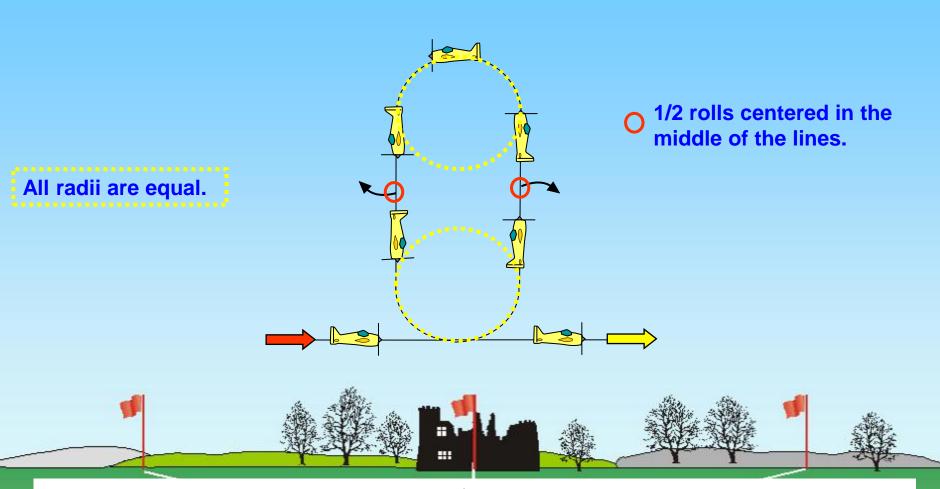


From upright at center, start pull through a 1/4 loop into a vertical upline, perform a $\frac{1}{2}$ roll, push through a half loop into a vertical downline, perform a $\frac{1}{2}$ roll, pull through a 1/4 loop, exit upright.





N-25.01 Pull-push-pull Humpty Bump with two 1/2 rolls

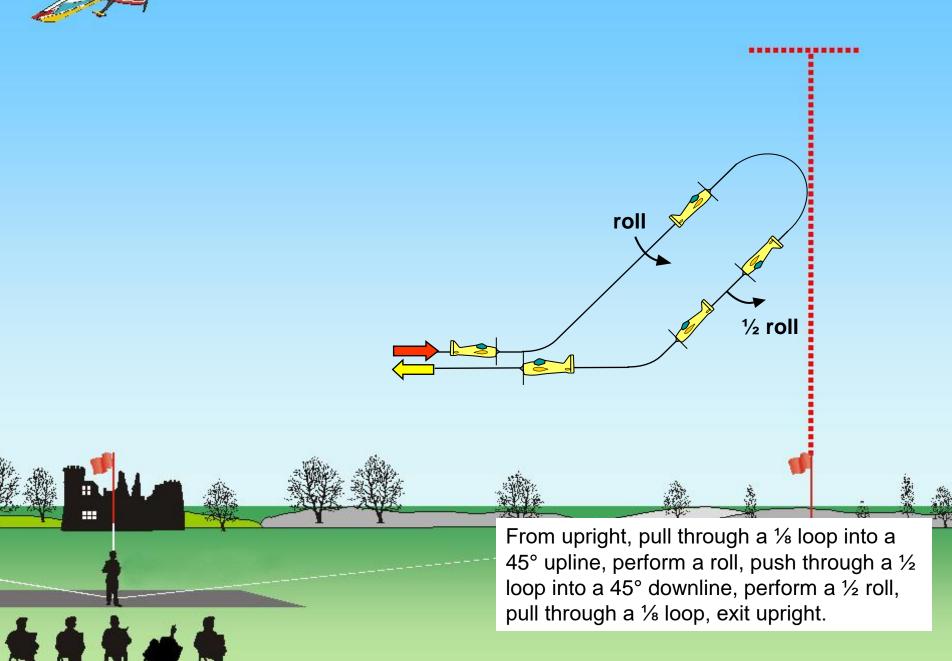


From upright at center, start pull through a 1/4 loop into a vertical upline, perform a ½ roll, push through a half loop into a vertical downline, perform a ½ roll, pull through a 1/4 loop, exit upright.



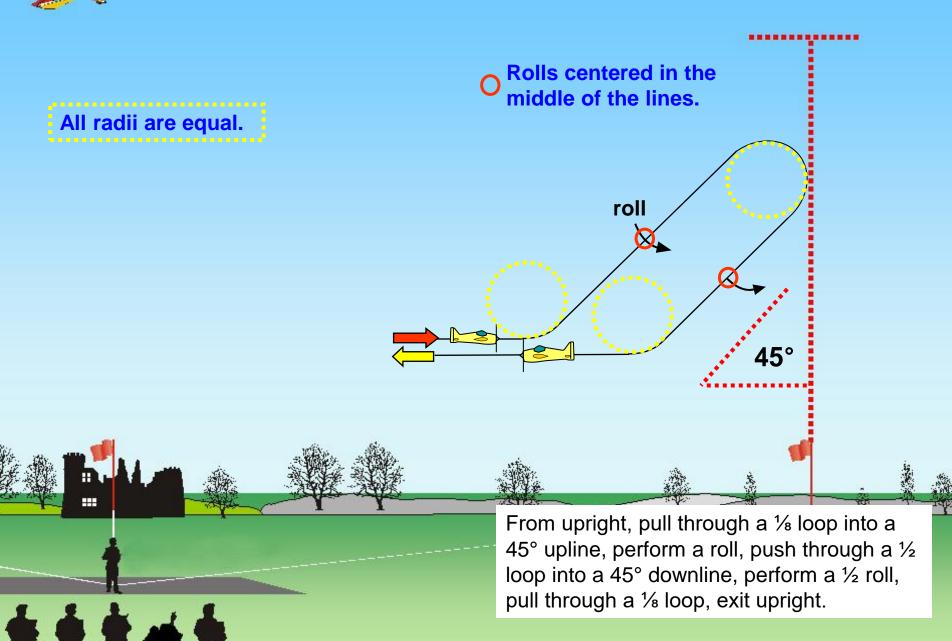


N-25.02 Trombone with roll and 1/2 roll



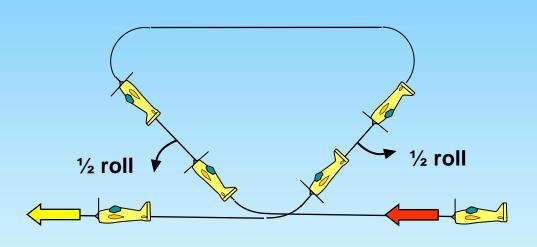


N-25.02 Trombone with roll and 1/2 roll





N-25.03 Triangle with two 1/2 rolls



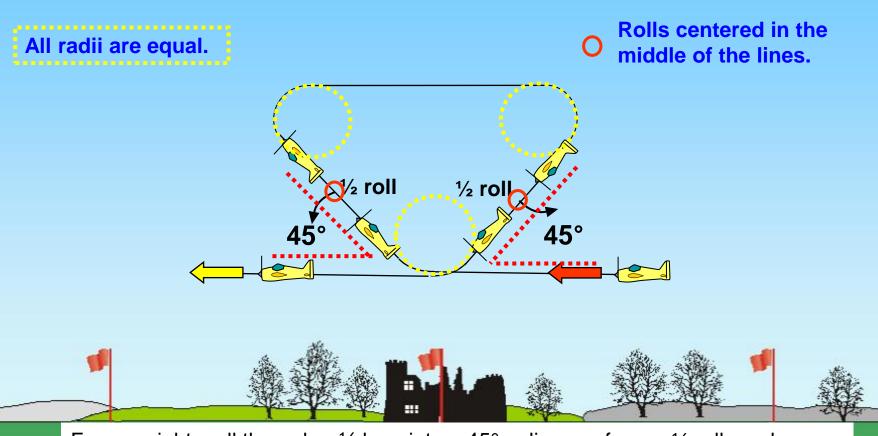


From upright, pull through a $\frac{1}{8}$ loop into a 45° upline, perform a $\frac{1}{2}$ roll, push through a $\frac{3}{8}$ loop, push through a $\frac{3}{8}$ loop into a 45° downline, perform a $\frac{1}{2}$ roll, push through $\frac{1}{8}$ loop, exit upright.





N-25.03 Triangle with two 1/2 rolls

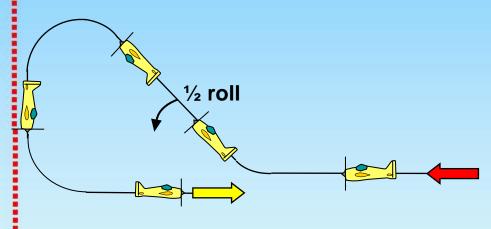


From upright, pull through a $\frac{1}{12}$ loop into a $\frac{45}{12}$ upline, perform a $\frac{1}{12}$ roll, push through a $\frac{3}{12}$ loop, push through a $\frac{3}{12}$ loop into a $\frac{45}{12}$ downline, perform a $\frac{1}{12}$ roll, push through $\frac{1}{12}$ loop, exit upright.

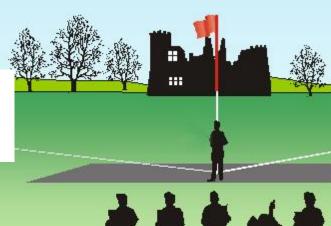




N-25.04 Reverse Shark Fin with 1/2 roll



From upright, pull through a ½ loop into a 45°upline, perform a ½ roll, pull through a ¾ loop into a vertical downline, pull through a ¼ loop, exit upright

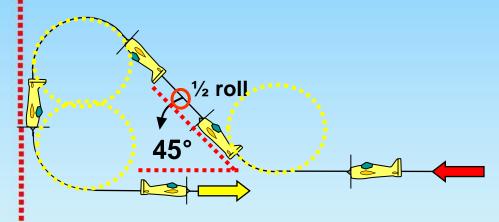




N-25.04 Reverse Shark Fin with 1/2 roll

All radii are equal.

O Roll centered in the middle of the line.



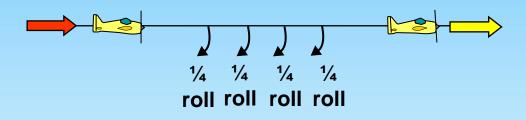
From upright, pull through a ½ loop into a 45°upline, perform a ½ roll, pull through a ¾ loop into a vertical downline, pull through a ¼ loop, exit upright







N-25.05 Roll Combination with four 1/4 rolls





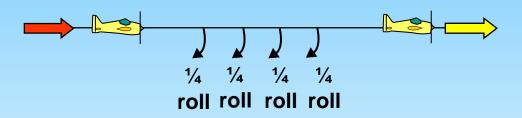
From upright, perform consecutively four 1/4 rolls, exit upright





N-25.05 Roll Combination with four 1/4 rolls

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

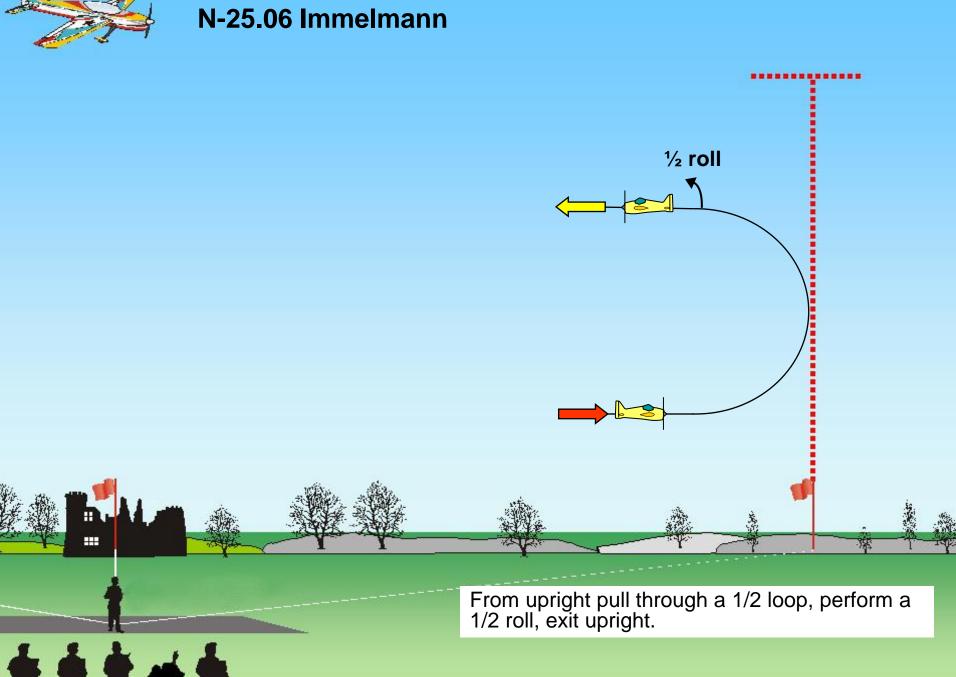




From upright, perform consecutively four 1/4 rolls, exit upright

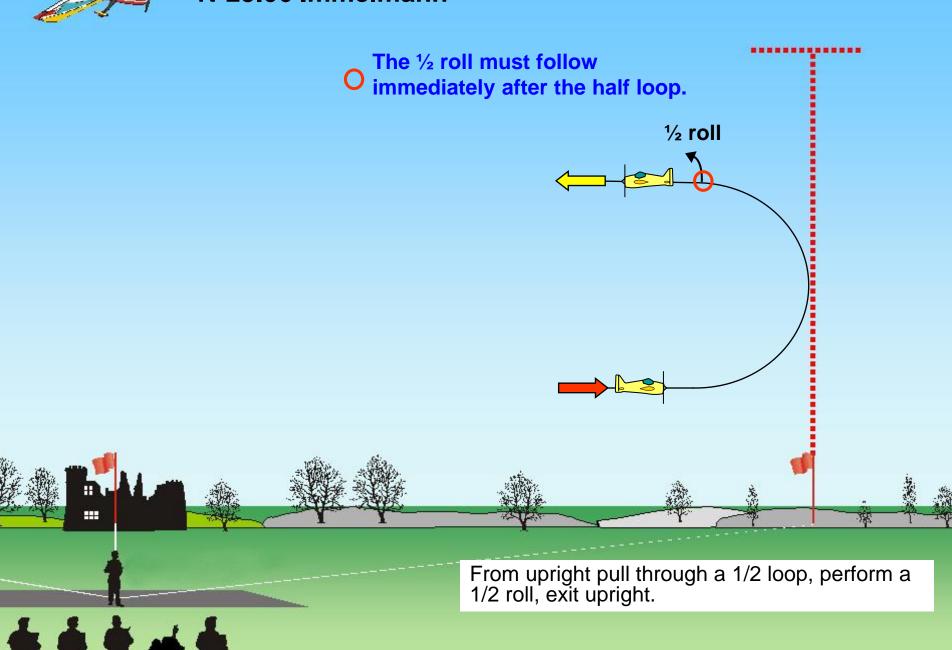






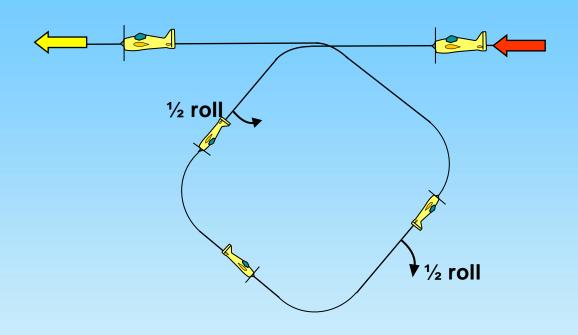


N-25.06 Immelmann





N-25.07 Square Loop on corner from top with 1/2 roll



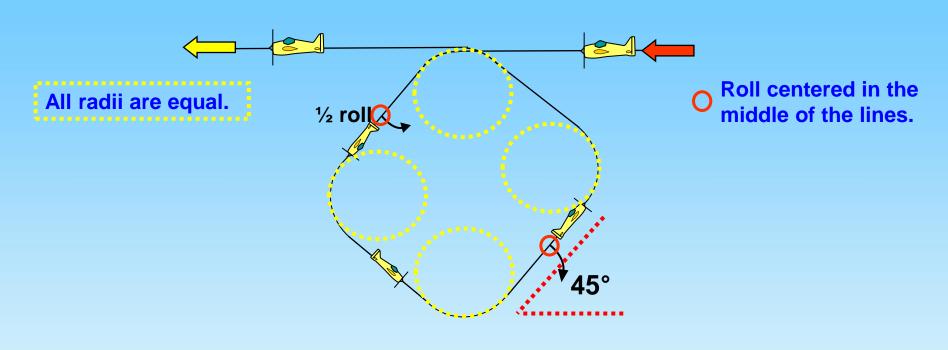


From upright, push through a ½ loop into a 45° downline, perform a ½ roll, pull through a ¼ loop into a 45° downline, pull through a ¼ loop into a 45° upline, perform a ½ roll, push through a ¼ loop into a 45° upline, push through a ½ loop, exit upright.





N-25.07 Square Loop on corner from top with 1/2 roll



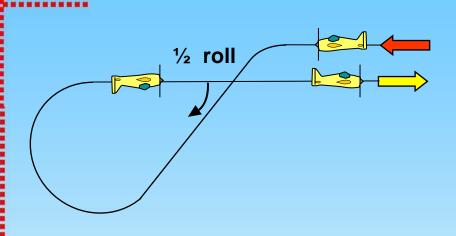


From upright, push through a ½ loop into a 45° downline, perform a ½ roll, pull through a ¼ loop into a 45° downline, pull through a ¼ loop into a 45° upline, perform a ½ roll, push through a ¼ loop into a 45° upline, push through a ½ loop, exit upright.





P-27.08 Half Cuban 8 from top with ½ roll.



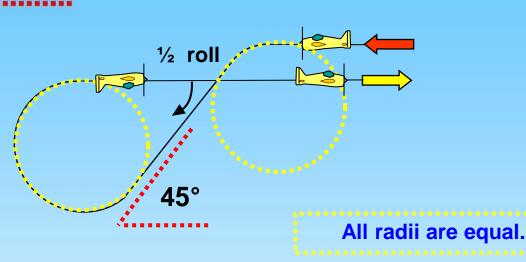


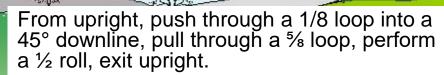
From upright, push through a 1/8 loop into a 45° downline, pull through a ½ loop, perform a ½ roll, exit upright.





P-27.08 Half Cuban 8 from top with ½ roll.

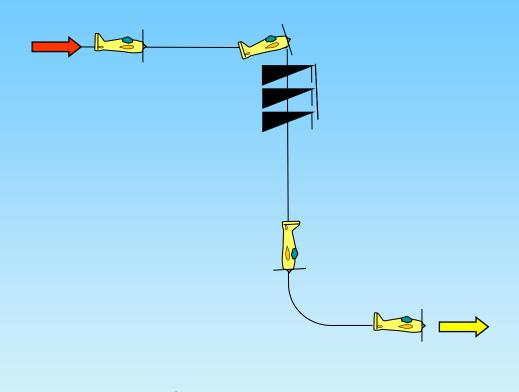


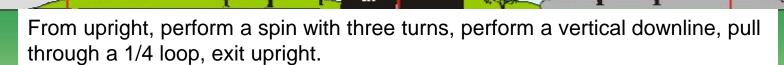






N-25.09 Spin with three turns

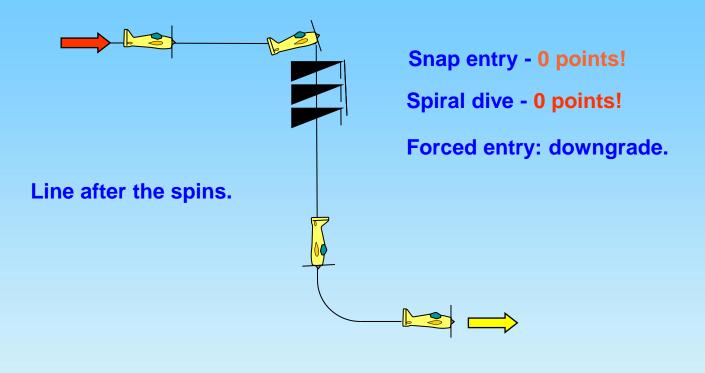


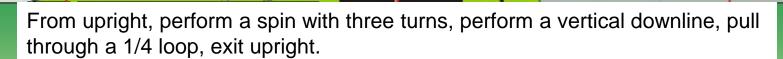






N-25.09 Spin with three turns

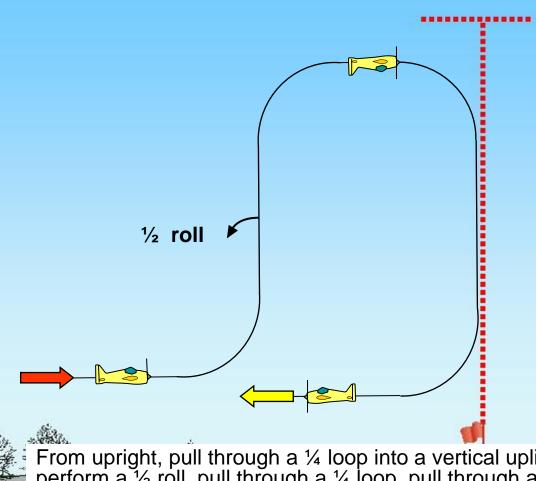








N-25.10 Top Hat with $\frac{1}{2}$ roll. (Option: Top Hat with two $\frac{1}{4}$ roll)



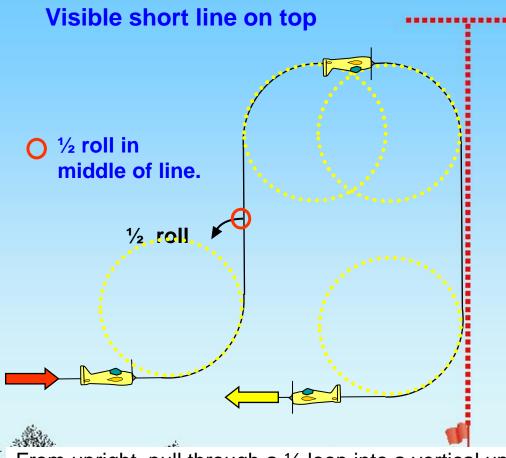
From upright, pull through a ¼ loop into a vertical upline, perform a ½ roll, pull through a ¼ loop, pull through a ¼ loop into a vertical downline, pull through ¼ loop, exit upright.

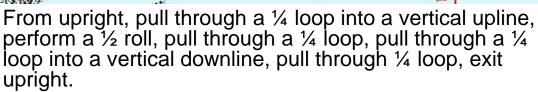
Option: From upright, pull through a ¼ loop into a vertical upline, perform a ¼ roll, pull through a ¼ loop, pull through a ¼ loop into a vertical downline, perform a ¼ roll, pull through ¼ loop, exit upright.



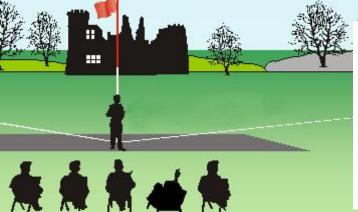
N-25.10 Top Hat with $\frac{1}{2}$ roll. (Option: Top Hat with two $\frac{1}{4}$ roll)

All radii are equal.



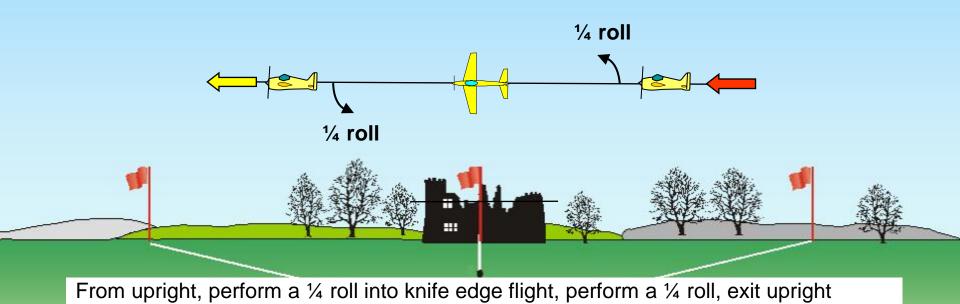


Option: From upright, pull through a ¼ loop into a vertical upline, perform a ¼ roll, pull through a ¼ loop, pull through a ¼ loop into a vertical downline, perform a ¼ roll, pull through ¼ loop, exit upright.





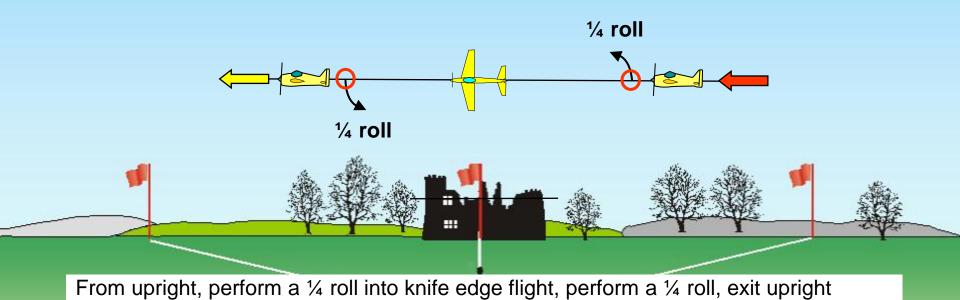
N-25.11 Roll Combination with ¼ roll, Knife Edge, ¼ roll





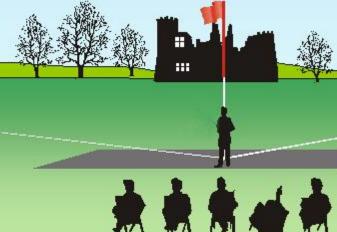
N-25.11 Roll Combination with ¼ roll, Knife Edge, ¼ roll

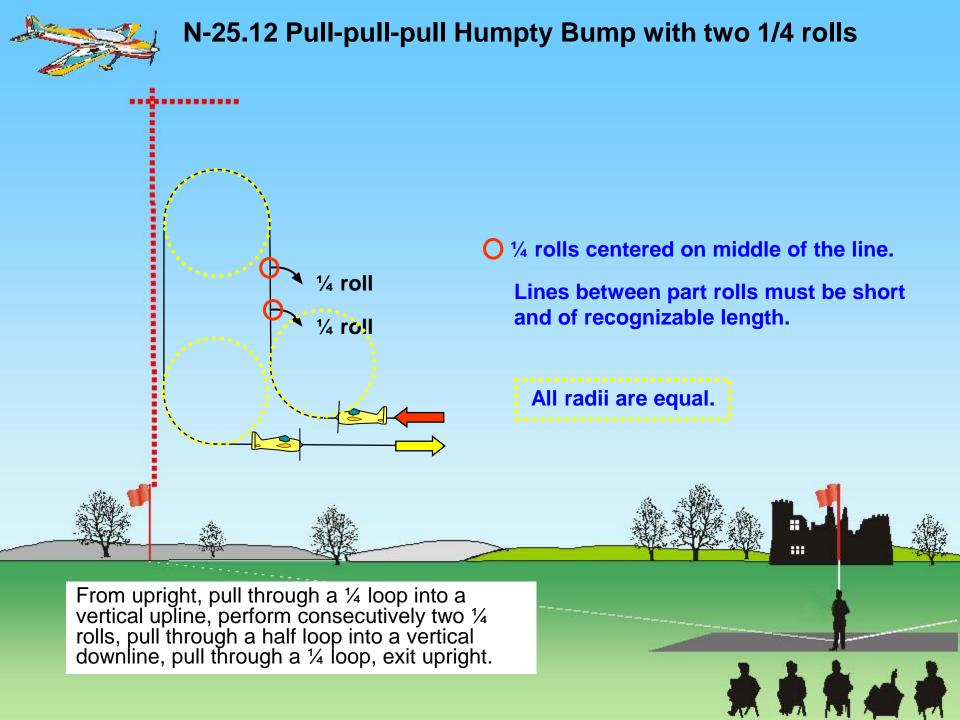
○ ¼ rolls at same distance from centre



N-25.12 Pull-pull Humpty Bump with two 1/4 rolls ½ roll 1/4 roll

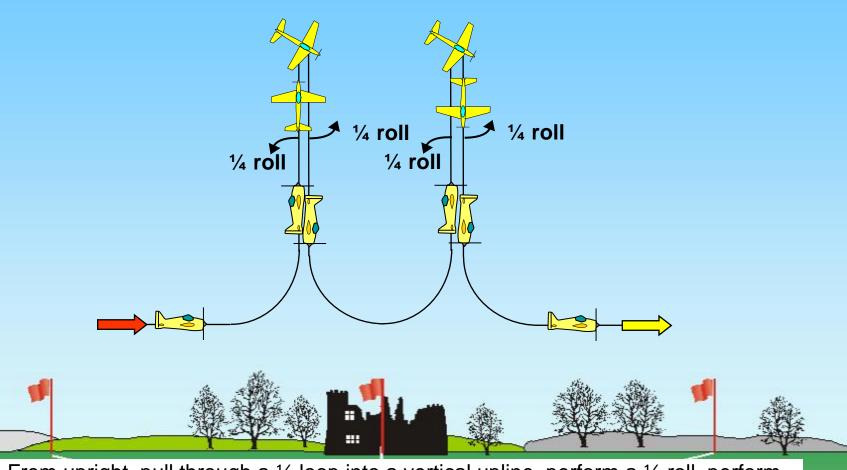
From upright, pull through a ¼ loop into a vertical upline, perform consecutively two ¼ rolls, pull through a half loop into a vertical downline, pull through a ¼ loop, exit upright.







N-25.13 Figure M with 1/4 rolls

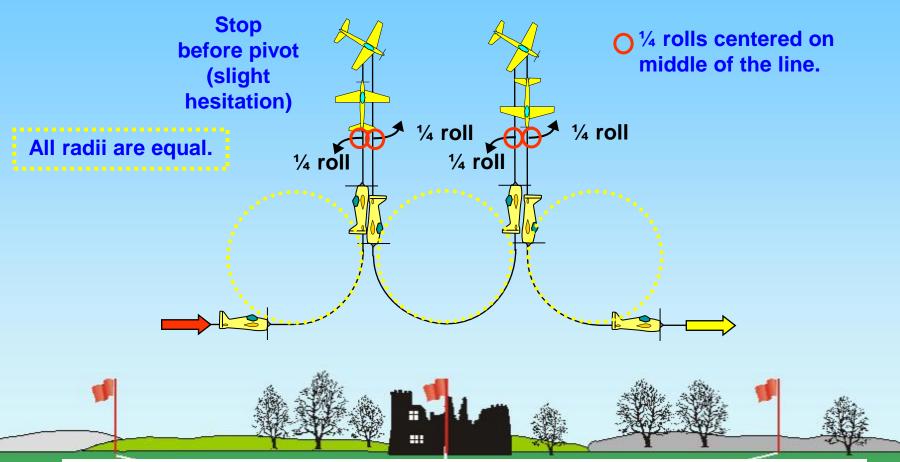


From upright, pull through a ¼ loop into a vertical upline, perform a ¼ roll, perform a stall turn into a vertical downline, perform a ¼ roll, pull through a half loop into a vertical upline, perform a ¼ roll, perform a stall turn into a vertical downline, perform a ¼ roll, pull through a 1/4 loop, exit upright.





N-25.13 Figure M with 1/4 rolls

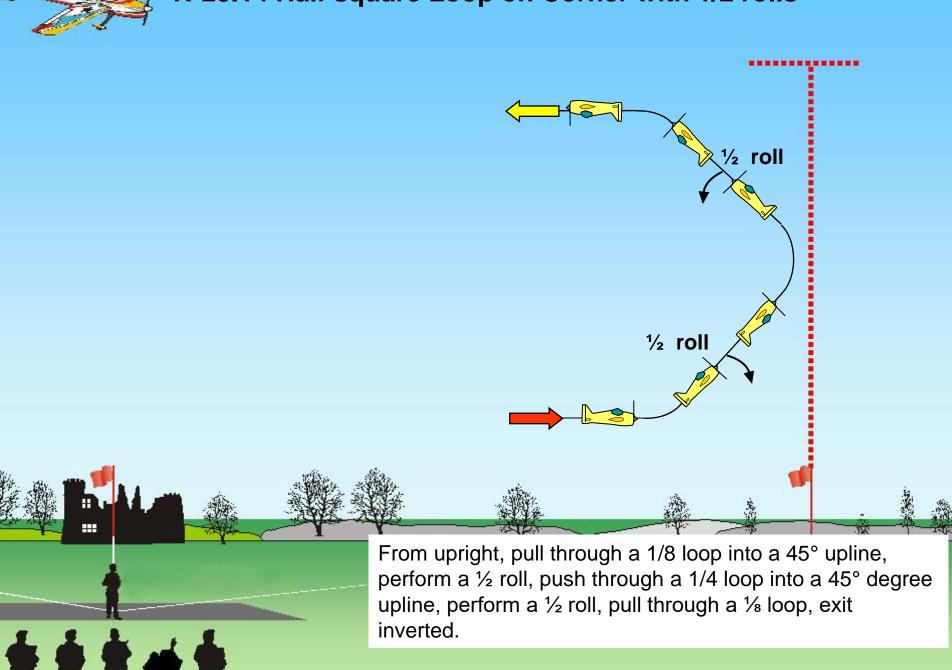


From upright, pull through a ¼ loop into a vertical upline, perform a ¼ roll, perform a stall turn into a vertical downline, perform a ¼ roll, pull through a half loop into a vertical upline, perform a ¼ roll, perform a stall turn into a vertical downline, perform a ¼ roll, pull through a 1/4 loop, exit upright.



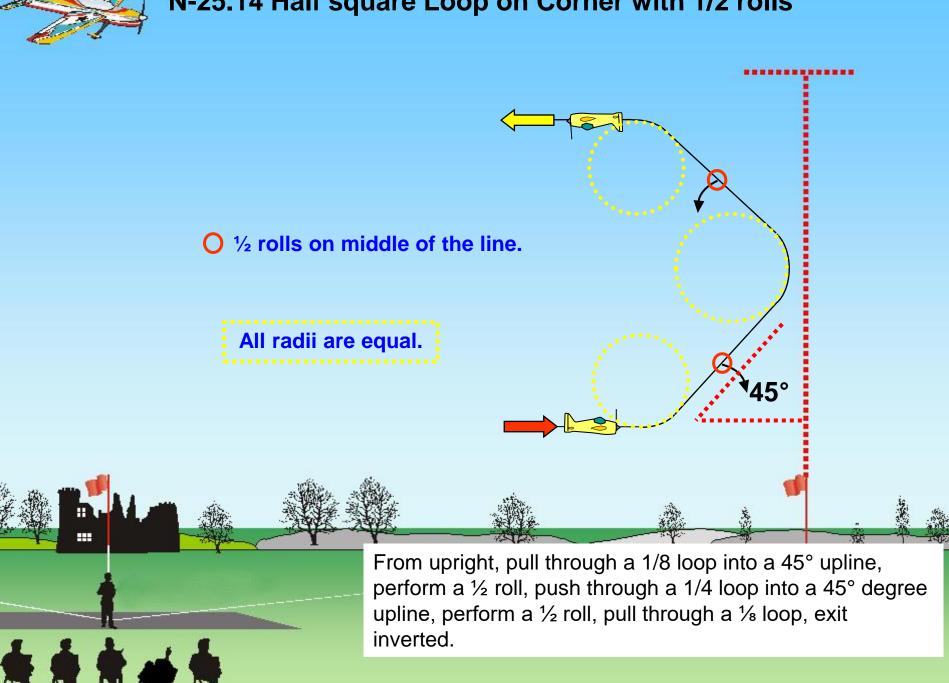


N-25.14 Half square Loop on Corner with 1/2 rolls



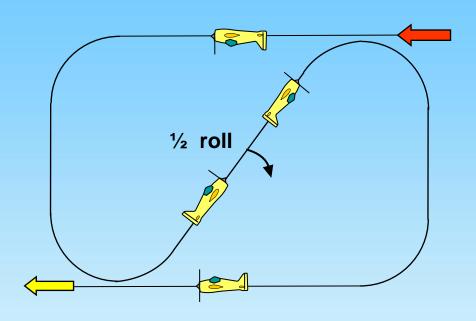


N-25.14 Half square Loop on Corner with 1/2 rolls





N-25.15 Double triangle with 1/2 roll







From upright, fly past center, pull through a $\frac{1}{4}$ loop into a vertical downline, pull through a $\frac{3}{8}$ loop into a 45° upline, perform a $\frac{1}{2}$ roll, pull through a $\frac{3}{8}$ loop into a vertical downline, pull through a quarter loop, exit upright.





N-25.15 Double triangle with 1/2 roll

All radii are equal.

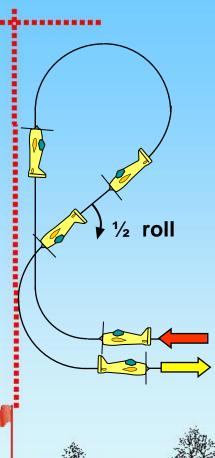
O ½ roll on middle of the line.



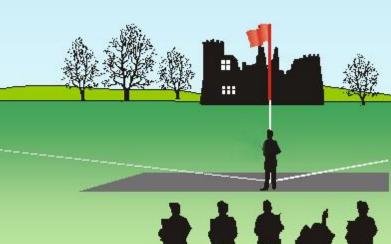
From upright, fly past center, pull through a $\frac{1}{4}$ loop into a vertical downline, pull through a $\frac{3}{8}$ loop into a 45° upline, perform a $\frac{1}{2}$ roll, pull through a $\frac{3}{8}$ loop into a vertical downline, pull through a quarter loop, exit upright.



P-27.16 Reverse Figure ET with ½ roll



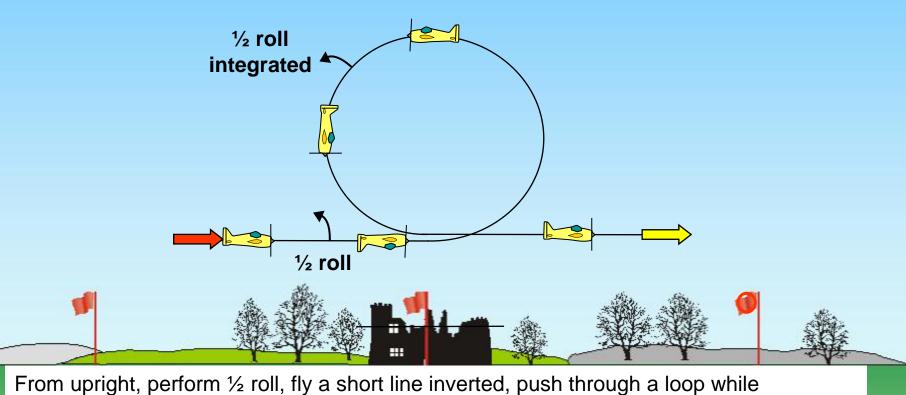
From upright, pull through ¼ loop into a vertical upline, pull through a ⅓ loop into a 45° downline, perform a ½ roll, pull through a ⅙ loop, exit upright.



P-27.16 Reverse Figure ET with ½ roll All radii are equal. 1/2 roll on middle of the line. From upright, pull through ¼ loop into a vertical upline, pull through a ½ loop into a 45° downline, perform a ½ roll, pull through a ¾ loop, exit upright.



N-25.17 Loop with two half rolls, the second roll integrated



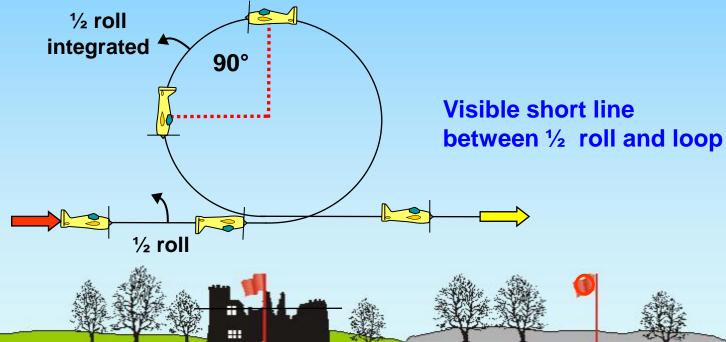
performing an integrated ½ roll in the third 90°, exit upright.



N-25.17 Loop with two half rolls, the second roll integrated

Loop must be round.

1/2 roll must be integrated on circular flightpath of the quarter loop



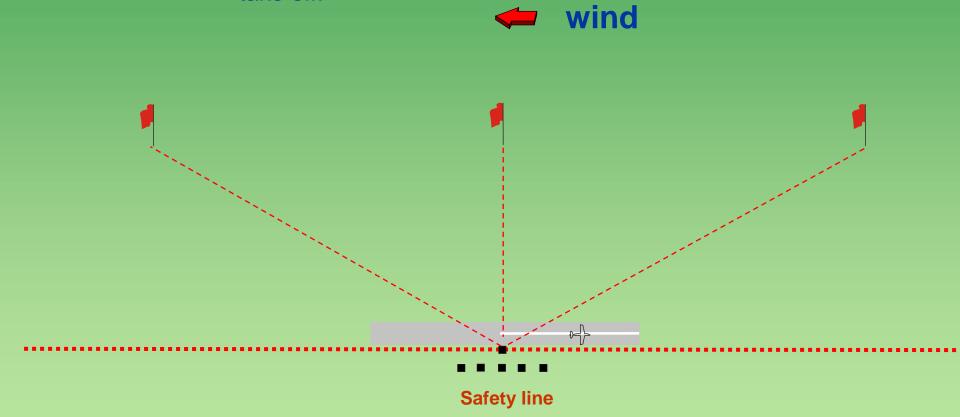
From upright, perform ½ roll, fly a short line inverted, push through a loop while performing an integrated ½ roll in the third 90°, exit upright.





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!

Bob Skinner



Thank you!

© Ola Fremming, September 2023