# Flying and Judging F3A 



SCHIEMATTIC MANOEUVRE ILLUSTRATIONS
SCHEDULE F-25

FINAL SCHEDULE F-25 (2023-2025)


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## Explanations:



## Aircraft upright

Aircraft inverted

Aircraft in Knife-Edge
View from Top

Aircraft in Knife-Edge
View from Below



6 half roll

\& roll
pos. spin



reference points
-
$\qquad$
(not judged, not scored)
(not judged, not scored)



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(not judged, not scored)
(not judged, not scored)
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## \title{  

}(not judged, not scored)


$\square$
(not judged, not scored)

(not judged, not scored) $\approx$ wind

(not judged, not scored)
(not judged, not scored)
(not judged, not scored)
(not judged, not scored)
(not Takeoff
$\square$

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$\square$
$\square$


#### Abstract

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$\qquad$ roll integrated, half roll integrated, half roll integrated, quarter roll integrated


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


Part rolls integrated on circular flightpath of the part loops.

During Knife Edge the wing must be in the vertical plane.



From inverted, push through a quarter loop into a vertical upline, perform consecutively a roll and a half roll in opposite directions, push through a three quarter loop, exit inverted.

## F-25.02 Figure Nine with roll, half roll in opposite directions

Roll and $1 / 2$ roll centered on middle of the line.

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


F-25.03 Roll Combination with consecutive two quarter rolls, four consecutive quarter rolls in opposite direction, two consecutive quarter rolls in opposite direction


F-25.03 Roll Combination with consecutive two quarter rolls, four consecutive quarter rolls in opposite direction, two consecutive quarter rolls in opposite direction

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

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


## F-25.04 Half Loop with half roll integrated



From inverted, push through a half loop while integrating a half roll, exit inverted..


## F-25.05 Pull Pull Push Humpty Bump with one and half

 snap roll, half roll integrated, one and a half roll.

From inverted, before centre pull through a quarter loop into a vertical downline, perform one and a half snap roll, pull through a half loop with half roll integrated into a vertical upline, perform one and a half continuous roll, push through a quarter loop, exit upright.


## F-25.05 Pull Pull Push Humpty Bump with one and half snap roll, half roll integrated, one and a half roll.



Snap roll and roll on middle of the line.

Snap rolls may be positive or negative.

If snap roll = barrel roll or aileron roll:


## F-25.06 Three Turn Spin with half roll



From upright, perform a spin with three turns, perform a vertical downline, perform a half roll, pull through a quarter loop, exit upright.

## F-25.06 Three Turn Spin with half roll

Snap entry-0 points!
Spiral dive - 0 points!
Forced entry: downgrade.

Line after the spins.
Half roll on middle of the line.


F-25.07 Horizontal Circle with three half rolls in opposite direction integrated


From upright, perform a horizontal circle with half roll integrated in the first ninety degrees, half roll in opposite direction integrated in next one hundred eighty degrees, half roll in opposite direction integrated in the last ninety degrees, exit inverted.
Note: First half roll is to the inside.


## F-25.07 Horizontal Circle with three half rolls in opposite direction integrated

Roll reversal must be immediate. plane in knife-edge
Circle must be of constant radius and must be flown at the same altitude.

First $1 / 2$ roll integrated must be inside.


## F-25.08 Shark Fin with roll, two snap rolls in opposite direction

From inverted, push trough a quarter loop into a vertical upline, perform a roll, push through a three eighths loop into a forty-five degree downline, perform consecutively two snap rolls in opposite direction, pull through a one eighth loop, exit upright.

## F-25.08 Shark Fin with roll, two snap rolls in opposite direction



## F-25.09 Square Vertical Eight with half roll, roll, quarter roll, roll, quarter roll, roll, half roll



From upright, pull through a quarter loop into a vertical upline perform a half roll, push through a quarter loop, perform a roll, pull through a quarter loop into a vertical upline perform a quarter roll, perform a quarter knife edge loop (towards the center), perform a roll, perform a quarter knife-edge loop into a vertical downline, perform a quarter roll, push through a quarter loop, perform a roll, pull through a quarter loop into a vertical downline, perform a half roll, push through a quarter loop, exit inverted.


## F-25.09 Square Vertical Eight with half roll, roll, quarter roll,

 roll, quarter roll, roll, half rollAll rolls on middle of the lines.


Entry and exit must be at the same altitude.
All radii are equal.

it F-25.10 Push Push Pull Humpty Bump with half roll, one and a half roll.


From inverted, push through quarter loop into a vertical upline, perform a half roll, push through a half loop into a vertical downline, perform one and a half continuous rolls, pull through quarter loop, exit upright.

F-25.10 Push Push Pull Humpty Bump with half roll, one and a half roll.

Rolls on middle of the line.

All radii are equal.
 roll integrated, half roll, quarter roll integrated
$1 / 2$ roll
integrated



From upright, fly past center pull through a three eighths loop with quarter roll integrated into a forty-five degree knife-edge upline, perform a half roll, perform a quarter knife-edge loop with a half roll integrated into a forty-five degree knife-edge downline, perform a half roll, perform a three eighths knife-edge loop with a quarter roll integrated, exit upright.

F-25.11 Knife-Edge Triangle with quarter roll integrated, half roll, half roll integrated, half roll, quarter roll integrated
$1 / 2$ roll
integrated
$1 / 2$ rolls on middle of the line.
$1 / 2$ roll Part rolls integrated on circular flightpath of the part loops.
$1 / 4$ roll integrated


## F-25.12 Half Eight Sided Loop with quarter roll, quarter roll



From upright, pull through a one eighth loop into a forty-five degree upline, perform a quarter roll, perform a one eighth knifeedge loop into a vertical upline, perform a one eighth knife-edge loop into a forty-five degree knife-edge upline, perform a quarter roll, pull through a one eighth loop, exit inverted.


## F-25.12 Half Eight Sided Loop with quarter roll, quarter roll


$1 / 4$ rolls on middle of the line.
$45^{\circ}$ lines and vertical line must be of equal length.

During Knife Edge the wing must be in the vertical plane.
$1 / 4$

## All radii are equal.

 and a quarter rolls in opposite direction.



From inverted, pull through a one eighth loop into a forty five degree downline, perform consecutively two one and a quarter rolls in opposite direction, push through a one eighth loop, exit inverted.

## F-25.13 Forty Five Degree Downline with two consecutive one

 and a quarter rolls in opposite direction.

Between rolls in opposite direction there must be no line.

All radii are equal.
 direction


From inverted, push through a quarter loop into a vertical upline, perform consecutively a roll and a half roll in opposite direction, pull through a quarter loop, exit inverted.

F-25.14 Half Square Loop with roll, half roll in opposite direction

Rolls centered on middle of the line.

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

All radii are equal.


## F-25.15 Avalanche (from top) with quarter roll integrated, snap roll, quarter roll integrated



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


## F-25.15 Avalanche (from top) with quarter roll integrated, snap roll, quarter roll integrated

Loop must be round.

The $1 / 4$ roll must be integrated on circular flightpath of the last $90^{\circ}$ of the loop.

If snap roll = barrel roll or aileron roll:

Snap roll may be positive or negative.

Severe downgrade > 5 pts.



## F-25.16 Knife-Edge Split S with quarter roll, quarter roll

The half knife-edge loop starts immediately after the $1 / 4$ roll, the second $1 / 4$ roll starts immediately after the half knife-edge loop.

During knife-edge the wing must be in the vertical plane.

## F-25.17 Stall Turn with half roll, three quarter rolls, three quarter snap roll, half roll



From inverted, perform a half roll, pull through a quarter loop into a vertical upline, perform three consecutive quarter rolls, perform a stall turn into a vertical downline, perform a three quarter snap roll, push through a quarter loop, perform a half roll, exit upright.
Note: Exit starts after the last half roll.


F-25.17 Stall Turn with half roll, three quarter rolls, three quarter snap roll, half roll

Stop before pivot
$1 / 4$ rolls centered on middle of the line.

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


Safety line -



Safety line $\square$
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## 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!
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