

**F2B - FOUR-LEAF CLOVER MANOEUVRE DESCRIPTION & DIAGRAM****4.2.15.16 Four-leaf Clover Manoeuvre**

Manoeuvre size: Between the base and the top of the hemisphere. All loops shall be flown as  $\frac{3}{4}$  of a circle arcs of equal diameter.

Recommended entry procedures: The pilot may choose the entry procedure he wishes to perform.

- Climb to the estimated level of the horizontal connecting flight paths and maintain for approx.  $\frac{1}{4}$  of a lap. Turn up towards the 9 o'clock position of the first inside loop.

or:

- From upright level flight along the base via an inside turn into a vertical climb towards the 9 o'clock position of the first inside loop.

Note: The vertical reference line of the manoeuvre is defined when the model aircraft passes vertically through the 9 o'clock entry position of the first inside loop.

- a) Start of manoeuvre: The manoeuvre starts at the 9 o'clock position of the first inside loop.
- b) The first inside loop: The top of this loop shall be tangent to a vertical great-circle line (wingover path) which is oriented at right angles to the vertical reference line. The loop ends with the model aircraft recovering into level flight touching a great-circle line inclined up  $45^\circ$  upwards.
- c) The connecting flight path from the first to the second loop shall be flown in upright flight along a great-circle line inclined up  $45^\circ$  upwards, ending at the beginning of the second outside loop.
- d) The second outside loop: The bottom of this loop shall be tangent to the base. This loop ends with the model aircraft entering a vertical climb along the vertical reference line.
- e) The connecting vertical flight path from the second to the third loop shall be flown as a vertical climb along the vertical reference line to the beginning of the third outside loop.
- f) The third outside loop: The top of this loop shall be tangent to a vertical great-circle line (wingover path) which is oriented at right angles to the vertical reference line. The loop ends with the model aircraft recovering into inverted flight touching a great-circle line inclined up  $45^\circ$  upwards.
- g) The connecting flight path from the third to the fourth loop shall be flown in inverted flight along a great-circle line inclined up  $45^\circ$  upwards, ending at the beginning of the fourth inside loop.
- h) The fourth inside loop: The bottom of this loop shall be tangent to the base. This loop ends with the model aircraft entering a vertical climb along the vertical reference line.
- i) End of manoeuvre: The manoeuvre ends at the point when the model aircraft passes the top of the hemisphere in vertical climb.

Recommended exit procedure: Descend to upright level flight along the base.

Note: Execution of further manoeuvres after the completion of the 4-leaf Clover manoeuvre is permitted.

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*Diagram appears on the following page.*

F2B - FOUR-LEAF CLOVER MANOEUVRE DESCRIPTION & DIAGRAM

ANNEX 4J – CLASS F2B MANOEUVRE DIAGRAMS ( Page 13)

4.J.14. Four-leaf clover manoeuvre (Rule 4.2.15.16)

