

Prop Masters R/C Aero
Pilot Qualification Maneuver Descriptions
Last Updated 07/12/2002 by LVD

Cuban-8: Aircraft pulls up and executes an inside loop, when at 45 degrees inverted aircraft pauses, does a half roll, pauses, followed by another inside loop, again when 45 degrees inverted pauses, aircraft does another half roll, pauses and recovers to level flight.

Double Immelmann: Aircraft pull up into a half loop, half rolls to upright, flies straight and level for greater than one second, does a half outside loop and half rolls to level flight.

Figure-8: Aircraft performs a 360 degree right or left turn, followed by a 360 degree turn in the opposite direction. Altitude remains constant through out the maneuver.

Figure-M: Aircraft pulls up into a vertical track, performs a 1/2 or 3/4 roll, a stall turn through 180 degrees, another 1/2 or 3/4 roll then executes a half inverted loop, followed by a third 1/2 or 3/4 roll, a second stall turn and a fourth 1/2 or 3/4 roll, recovering in level flight. Direction of rolls and stall turns are pilot's option.

Four-Point-Roll: Aircraft rolls through 360 degrees, hesitating at each 90 degree point; at each hesitation wings are parallel or vertical to the horizon. Center is middle of inverted flight.

Humpty Bump: Aircraft pulls up to a 90 degree climb, half rolls, pushes through a half loop to a 90 degree dive, pauses then recovers to level flight in the opposite direction as the entry.

Immelmann Turn: The aircraft starts the Immelmann flying straight and level, pulls up into a half-loop followed by a half-roll and finished flying straight and level exactly 180 degrees from the heading at entry.

Procedure turn: Aircraft flies straight and level, then executes a right or left 90 degree turn followed by a 270 degree turn in the opposite direction. Aircraft resumes level flight along a parallel path in opposite direction as entry.

3 Outside Loops: Aircraft pushed over and executes three consecutive outside loops. All loops should be rounded and superimposed upon each other.

Reverse Cuban-8: Aircraft pulls up into a 45 degree climb, half-rolls, executes a 3/4-loop, half rolls to inverted and loops back to level flight at the same point a entry.

Slow Roll: Aircraft rolls slowly through one complete revolution taking three seconds or more.

Spin and Recovery: Aircraft establishes a heading in level upright flight, power is reduced and the aircraft is held in a nose high attitude until it stalls and commences to spin. The aircraft will rotate through 360 degrees then pause in a nose down attitude, then recover level flight at a lower altitude.

Stall Turn: Aircraft pulls up into a vertical track, stalls, yaws tightly through 180 degrees, then recovers to level flight along a parallel path in opposite direction as entry.

Top Hat: Aircraft pulls up into a vertical attitude, pauses, makes a half roll, pauses, pulls over to inverted flight for a distance equal to the vertical climb, pulls down, pauses, makes a half roll, pauses and recovers to level flight.