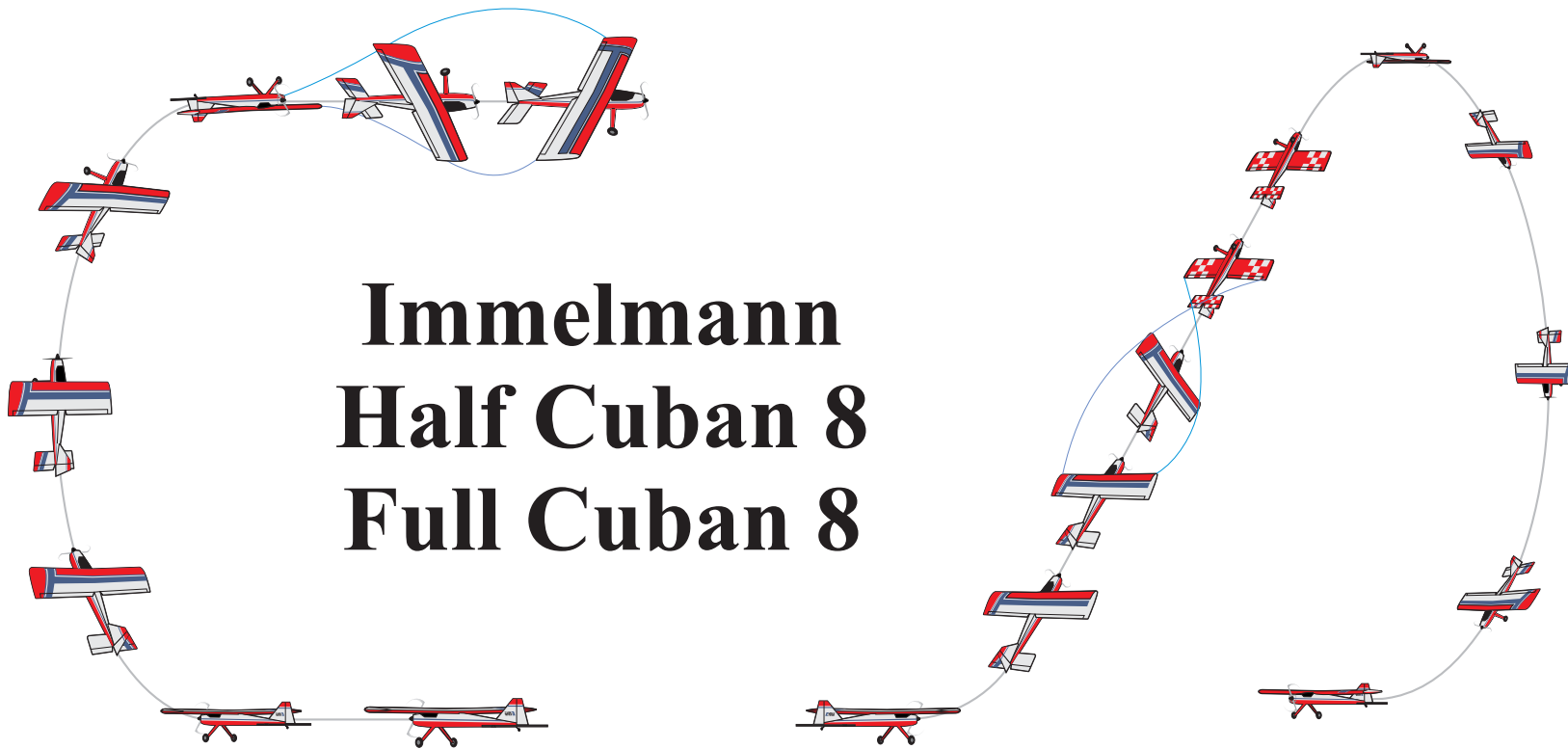


Loop-Roll Combinations



**Immelmann
Half Cuban 8
Full Cuban 8**

**Half Reverse Cuban 8
Full Reverse Cuban 8
Split S**



Immelmann Turnaround Sequence

The basic two step Immelmann is used to gain altitude while turning around. This maneuver begins with a half loop, therefore the throttle should be advanced near full, the wings must be level, and you'll need to target a specific fixed elevator amount (e.g., half) to establish a consistent loop radius right away.

Near the top of the half loop, quickly neutralize the elevator, then execute a quick (full aileron) half roll to upright. Keeping the steps separate will help to ensure that only aileron is applied during the roll, thus keeping the roll axial and on the same heading.

Note: Since airplanes tend to settle or drop a bit during the half roll, an astute pilot will cheat a little and neutralize the elevator and start rolling a few degrees before the top of the loop to ensure that the roll does not finish lower than where it was started. Using full aileron also helps to quickly complete the roll before the plane has a chance to lose altitude or wander off heading.

Finally, as you gain experience, introduce the float technique: Slightly reduce the elevator at the 10:00 or 2:00 "key Point" to keep the half loop round throughout.

