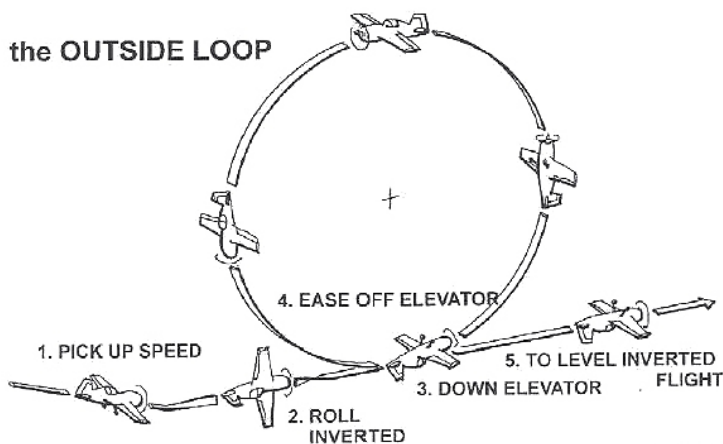


The Outside Loop (difficult for some airfoils)

RCSD January 1998

You all know how to do a loop, and you have tried inverted flight so now lets combine the two with the outside loop.

The Outside Loop is done exactly the same as the Inside Loop. The only difference is you fly it inverted. The model starts the Outside Loop flying inverted straight and level, and with a lot of airspeed, pushes down elevator down, flies up into a perfectly round 360 degree loop and finishes inverted straight and level in exactly the same heading.



The outside loop can be flown up as described above, or down. The glider starts straight and level inverted, pushes up elevator (goes down) into a 360 degree loop and finishes, inverted flying straight and level. This is an easier outside loop because you don't need much airspeed to begin the maneuver because it starts going down instead of up. This maneuver is not particularly difficult, but as with all acrobatics, airspeed is really important. The key to all loops is keeping your wings exactly horizontal, and flying a perfectly round 360 degree vertical circle.

On windy days, or if you must do your Loops cross wind, you sometimes need to steer the sailplane through the entire Loop to keep the wings exactly horizontal. This is why on windy days it's much more difficult to do precision aerobatics than it is on a calm day. We are flying very close to the ground, and often the lower you cut the Dumpier it is. When the full-sized sail-planes do such maneuvers, they are much lighter and much faster and much more stable and, therefore, are affected much less by ground turbulence.

Just remember one very important thing: when inverted, up elevator makes the airplane fly down, and down elevator makes it fly up.

As always, if in doubt, fly one mistake high! Now go out and HAVE FUN! ■