



Article published on March 16th 2012 | [Entertainment](#)

RC helicopter is said to be the most difficult RC toy when it comes to navigation precision. Although this is probably true, once you get the hang of RC aviation piloting an RC helicopter you will find piloting easier to fly and control. Once comfortable and at ease with RC helicopter aviation, you will be able to perform various tricks and stunts. Note that maneuvering tricks and stunts must be done properly so that there is no permanent and serious damage done to the helicopter and yourself. The two most popular tricks and stunts with newbies and old timers nowadays are the roll and the death spiral. This article aims to help you achieve these two stunts safely and easily.

The Roll

To achieve this particular stunt, you must first bring your RC helicopter to a safe and reasonable altitude (this would be at least 30 to 50 feet from the ground). When you have already achieved this altitude, start moving the cyclical controls of the helicopter to the right, making sure that the movement is as fluid and gentle as possible. You may then minimize any unwanted deceleration risk by releasing the controls and watching the helicopter roll and approach what is called the “knife edge™”: this is a point in the helicopter’s flight where its rotors will have a vertical orientation and the helicopter is seen to be on its side. Repeat the same steps until the helicopter reach an upside down position and approach knife’s edge one more time by moving the collective pitch 3 degrees to the negative. As you observe the helicopter to approach the knife’s edge, move the collective pitch to the positive side and it will help your RC helicopter attain an upright position once more. Note that although this stunt is one of the easier of the stunts and tricks you may do with your helicopter, it takes a lot of practice and precision in order to perform is smoothly and successfully.

The Death Spiral

To do a death spiral with you RC helicopter, take it to an altitude of about 30 feet by raising the throttle. After that, take the helicopter to the knife’s edge position by applying aileron in whichever direction you choose. Once the helicopter reaches the position, the rotor blades will achieve a vertical orientation and lose the standard horizontal configuration that is seen during normal flights. You may then start applying full forwards and backward elevator tricks to achieve a spiral motion. You will then notice that the helicopter will start descending and you may then apply the aileron in the opposite direction as to when you applied it at the start, and achieve the death spiral.

There are a lot of stunts and tricks that can be done when flying a helicopter, some stunts being more complicated than the last. Remember that executing these stunts will require great amounts of time, control, and understanding of the mechanical dynamics in RC aviation. If you truly wish to become masters of stunts and tricks, then be ready for a long ride ahead.

Article Source:

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Article Keywords:

rc helicopter, remote Control Helicopter

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