

How to Build a Candy Drop Box

By Larry Harris

I have been advised that homeland security monitors the internet for some key words such as 'bomb' so in the rest of these instructions the word 'bomb' has been replaced by 'candy'

CANDYS AWAYYYY-----Y-----Y-----Y-----

We are going to have candy drop competition big time so here are some hints as how build a remote controlled candy Bay.



I built this one out of a plastic cover of a 3 ring binder. It is custom sized for pocket packs of Kleenex but can be used for individually wrapped hard candy, bubblegum, very small rotten eggs, etc. Rocks or real candies(what???) are frowned upon. Most any size can be built or use any kind of box you have. Charles Pate has used the box a gyro came in. I've found it important to have a stiff mounting surface for the servo base (lite ply used here) and a very flexible hinge (fiber tape used here) for the cover otherwise the door won't stay closed or will not open at candy release .

Take notice of airflow in flight, I found having the door parallel to flight seemed to work best, otherwise the wind was either trying to open the door when you want it closed or keeping the door closed when you want it open. Come to think of it that's the way a B17 does it when it drops candies.

The Kleenex worked great, the individual sheets came out one after another just like the 101st airborne out of a C-47 on D-day. The problem was it left very obvious litter all over 50 acres, candy is better, the kids will pick it up.(or Charly or Larry)



Here is a closeup of the servo, the tab on the servo ARM isn't strictly necessary but it helps keep the arm from jamming.

I used Velcro to mount the box on the CG of the airplane (very important position) Plug the servo into an unused channel and program that channel to be controlled by a switch.

I found that on my 3 channel slow stick with a 4 channel receiver I could use the unused rudder channel but don't forget NOT to use rudder until the candyier says candy away.



This is an adapter to mount the box onto a slow stick fuselage, Velcro is on the other side, use tie wraps thru holes to secure plate to fuse stick.

Larry Harris, chief design engineer, RAMS