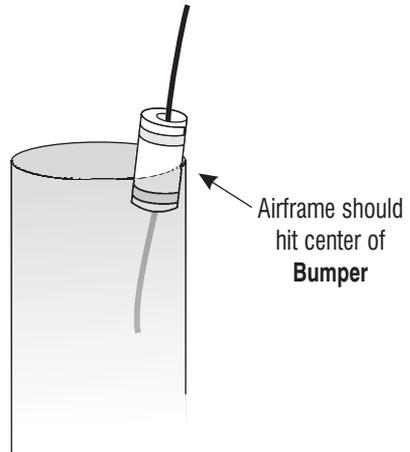


Dino Chutes, Inc. shock cord Bumper- small

The **Bumper** will protect your shock cord from getting cut on the sharp edge of your airframe if you are using a fiberglass or carbon fiber airframe. It will also provide some cushion so that your shock cord is less likely to rip into your airframe if you are using a cardboard body tube. This sort of damage is known as a “zipper”.

The installation of the **Bumper** can be a little frustrating due to the lack of space to work in with smaller body tubes. We promise that the end result will be successful despite the likelihood of you having a moment or so of frustration when trying to secure the bottom Velcro® strap. We only recommended the use of this device for 2.6” diameter and wider body tubes. Anything smaller and it’s likely you won’t be able to fit your fingers inside the tube in order to secure this device.

Your shock cord needs to be routed through the strap in the **Bumper** so that the strap is located at the TOP end of your airframe. This makes it easier to tie a knot because the strap will be located outside of the body tube.



Next, slide the **Bumper** along the shock cord so that the middle of the **Bumper** lines up with the top edge of your airframe. Tie a knot around the nylon strap so that the **Bumper** cannot slide up or down. A clove hitch knot works well for this so long as your shock cord is thick enough to stay tied. This device comes with a clove hitch already tied in a sample piece of Kevlar® cord so that you can see how to tie it.

Once tied in place, roll the **Bumper** around itself and wrap the two strips of Velcro® around its body. Wrapping the bottom piece of Velcro® is a little bit difficult with smaller airframes but we've found that it can be done with less than a minute's worth of labor.

Pull upwards on the shock cord to verify that the **Bumper** is actually centered on the top edge of the airframe.

Under typical use, we've found that the Velcro® does not have a tendency to melt. For additional heat protection, you could always wrap some masking tape around the Velcro® straps. Nonetheless, this device should be located above whatever sort of protection you have for your parachute whether it's a Nomex® pad or cellulose insulation (aka- "dog barf").

We also recommend that the **Bumper** be inserted into your airframe so that it's located below your parachute. You don't want it getting in the way of proper deployment.

Once installed, you can pretty much forget about it other than making sure that it has stayed in the proper position along your shock cord. Also make sure that it can't move up or down on the shock cord in case your knot accidentally loosens up.



Dino Chutes, Inc.

MODEL ROCKET PARACHUTES & RECOVERY SUPPLIES
