

Carlisle's

CORRECT SHOES

X-RAY FITTINGS

for men, women and children

Phone 881

420 Norfolk Avenue

Norfolk, Nebraska

February 4, 1957

Mr. G. Harry Stine  
1100 Circle Drive  
Las Cruces, New Mexico

Dear Mr. Stine:

I have sent you, today, a box full of Rock-A-Chutes and a supply of assorted power booster units. I sure hope it all gets to you without any damage. You will note that I used various materials in which to pack the stuff!!!

If any of the fins are broken, you can make repairs with any model airplane cement.

In case you are wondering where to store the booster units, I suggest that you put them in a large tin can that has a good tight lid--or other such container. I have never had any trouble with the boosters after long storage--in various degrees of dampness. I have had them stored from 22 below to 110 above, in blizzards and heat waves.

The boosters are loaded with black gunpowder--cut one open to see what it looks like. You will note that a charge of different powder separates the booster charge from the expelling charge. This is called the delay powder, and is what fires the expelling charge. The delay powder is made from potassium nitrate, sulfur and charcoal--I make it, and it is safe.

I load these boosters by use of a small press. But you can make them just as good by ramming the powder into the tube--and as safely--by hand--but it takes longer than with the press.

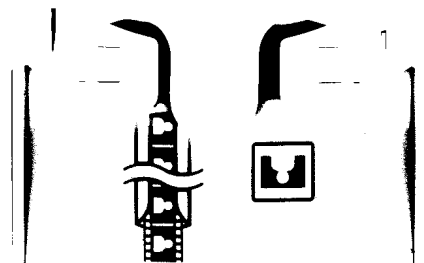
The 'Kit' form of the Rock-a-Chute will contain everything but the powder. The 'Instruction Manual for Loading' will tell exactly how to go about loading the boosters---safely., where to get the powder and chemicals, etc.

When you get to preparing one for launching, just be sure that you have rolled the chute up TIGHT, and wind the shroud lines around the chute till you get to the blue tape. Then wrap one of the 'Parachute Wrappers' tightly around the chute and shrouds--just like you would roll a cigarett.!!! Then put one of the 'End'Cups' snug one end----see instructions---

All that is necessary is that the packed chute slips into the body with out wadding up.

I am sure you will see the reasons for the wrapper and the end cup. They protect the chute and shrouds from the little puff of flame from the expelling charge. The value of the 'Lining Paper' is also obvious---or is it??? The expelling charge leaves a dirty and rough residue--so with a fresh clean lining in the body of the Rock-A-Chute, you have a nice clean and SMOOTH surface

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for the packed parachute to be in contact with. Use fresh wrappers, end cup and lining paper for each flight.

The function of the piece of rubber--called the Shock Cord is also obvious. Quite a strain is put on the chute and shroud lines when the parachute pops open--the shock cord takes up the strain.

If any of the noses seem to loose (if they fall off when held nose down) you can wedge a small piece of paper under the nose to hold it on. On the other hand if the nose gets tight--very tight---use a piece of sandpaper or a small file to work the wood base of the nose down so it does fit properly.

Do not let the shock cord get down between the lining paper and the inside wall of the body, as it will make it hard for the parachute to be expelled.

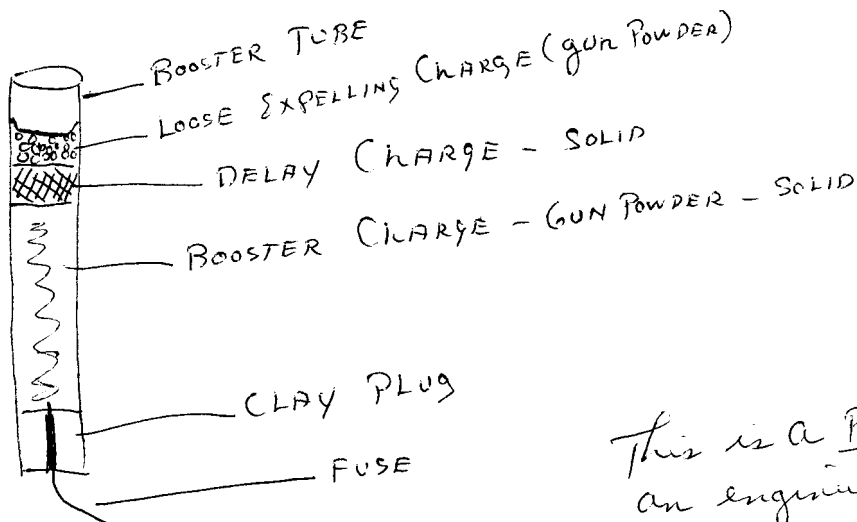
Use the long guide stick when launching the high powered charges. The larger charges require more time to build up speed--and take a little longer to get going fast enough so the wind does not bother them. A few shots and you will know it all.

My only regret is that I cannot be there with you when you blast the first one off. I will be greatly interested in what you think of the 'thing'.

If there is anything else you want to know, let me know and I'll do my best to tell you.

Best regards,

*Orville Carlisle*  
Orville Carlisle



*This is a poor drawing for an engineer to look at!*

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