

Carlisle's

CORRECT SHOES

X-RAY FITTINGS

for men, women and children

Phone 881
420 Norfolk Avenue
Norfolk, Nebraska

February 19, 1957

Dear Harry:

I have sent you, this afternoon, a box full of boosters. When you open them up you will note that I have changed the numbering system. Forget all the numbers of the first batch I sent, and use only these new numbers.

- There are 3 dozen single stage boosters, called 4-4-1
- 2 dozen single stage boosters, called 4-3-2
- 2 dozen two stage boosters, first stage called 4-4
second stage called 4-4-2
- 1 dozen two stage boosters, first stage called 4-4
second stage called 3-4-2

*2 delay stages
1 delay booster*

To make it clearer the first number tells me how much booster is in the unit---the second number tells me the kind of powder in the unit, and the third number tells me what the delay charge is made up of. The 'X' under the one set of numbers means that there is an extra amount of no.2 delay. Does this foul you up??? Hope it does not. Let me know which works out the best. As I do not have one of your weight and design rocket bodys to shoot, I can only guess up to this point as to what charges to make up.

staged
Now about the boosters. I am sure you will be able to dope them out, but in order to help you keep from making any false starts, here is how I use them. Remember I have been shooting them in a MarkII with 4 lead balls 1/4 inch in dia. taped on the nose!!!.

Note I have the boosters all paired up. So unwrap the foil easy so as no t to pull the fuse loose, and take the 2nd stage booster (the one with out the red fuse cemented in--ha!!!. If the sleeve is on this stage, remove it. Take the 2nd stage, and instert it tight into the socket of the rocket body.

Now take a piece of the jetex fuse, and cut off enough so that you will have enough to insert double into the vent hole--and have some sticking out--about 1/4 inch. Once you know how much to cut off it is easy. So take the piece and double it, and insert the doubled end into the vent, and push it in easy as far as it will go. It might be a good idea to sort of tap the booster while holding the vent down to clear it of any dust before inserting the jetex fuse. Now gently bend the surplus sticking out of the vent so it lays flat against the base of the booster. *put in much so as to foui the 1st stage when it is inserted. get what I mean?*

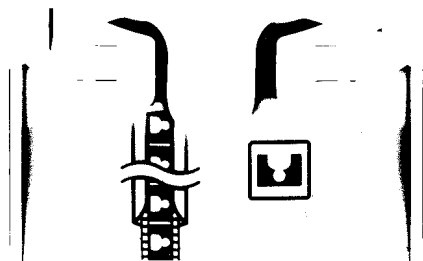
OR
You can use 3 pieces of jetex, but it seems to me that the lag between the 1st and 2nd stage is slower when 3 pieces are used. 3 pieces fill the vent to full--I think, and slow down the flash of flame of the jetex fuse.

Try which ever you like best.

OR.

You can use longer pieces of jetex, and do not bend the ends, but leave them sticking

Normal Shoes of All Types :- Prescription Shoes :- Split Size Fittings



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straight out so they make contact with the seperating charge in the first stage. This may keep the jetex fuse from being dislodged when she takes off.

Now slip the sleeve over the 2ndstage. Slip it on about half way. If it seems very loose, put a piece of scotch tape around the 2nd stage.

Now gently take the cork out of the 1st stage. Don't spill the seperating charge if you can help it. Hold the rocket body up straight, and slip the 1st stage into the sleeve. If the 1st stage is loose, put some more tape around the end to make it tight. IF THE SLEEVE IS ON THE 1st STAGE THE TIGHTEST THE SLEEVE WILL COME OFF WITH THE 1ST stage when it seperates.

Now press the whole shebang snug, and make sure they are in straight .

The amount of powder in the seperating charge is the same amount that is in the expelling charge. You might try a little less, but it works ok this way.

Item: You may note that I am using a smaller cup on the expelling charge end. If the chutes do not pop with enough force, put a little cement around the edge of the cup to make the cup stay in tighter. This will give a bit more push to the charge when she goes. May not need it, but if you need to have more force to get the nose and chute off, try the cement idea. Use regular model plane cement. Dont use too much!!

Item: If any fail to fire after you light the red fuse, do this...AFTER about 5 min. With a small drill or needle, clean out the junk from the fuse hole. Then take a 7/64 inch dia. drill, and insert gently into the vent. With fingers turn the drill bit to clean her out, and then go in a bit deeper. Don't drill too deep. USE YOUR FINGERS to turn drill for this job. Try not to enlarge vent. Then cut a piece of fresh fuse--cut on slight angle--insert it tight, and cement it in.

Another thing about the fuse---gently bend it so it sticks between fins. Fuse is coated with lacquer (sp) and sometimes it flames while burning. If it is extending between the fins nothing gets burned. If you wish cut the fuses shorter--, so there is not so much of it to burn.

I did my best to drill the vents of this batch in the dead center. Some of them are off a bit.

If you want smaller end cups, take a wood rod the size you want, and sort of re-mould the regular cups around the end of the rod. Press cup snug around rod with fingers, hand, fist and palm. How is that for directions!!.

I will write more later. It is about time I got busy with some of the store work.

The stuff should get to you Fri or Sat. I hope it gets there Fri. You might call your express man Sat to see if it is in. The Express Co here is closed Sat, Sun, and Monday. That is the nuts when you are in a hurry for something!!

Let me hear from you.

Best regards, Orville Carlisle *(Orville Carlisle)*

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*If you shoot by electricity, use jetex fuse - just pull out my red fuse, and insert jetex/doubled.
Use 1/2 long fuse wire - an electric squib. Do you follow me?*

