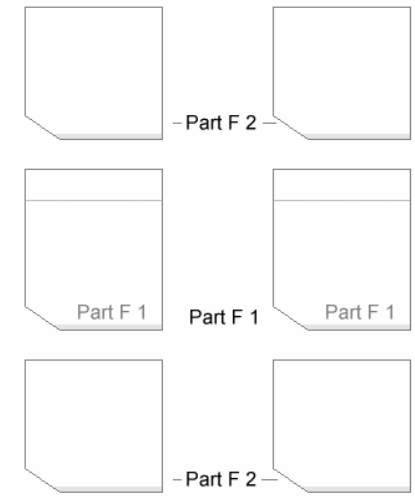
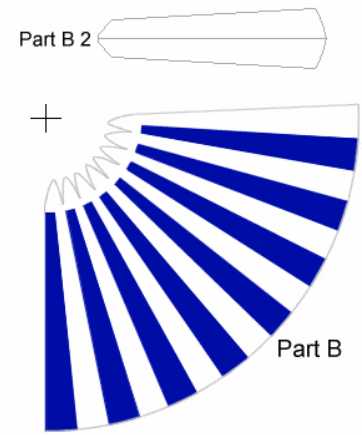
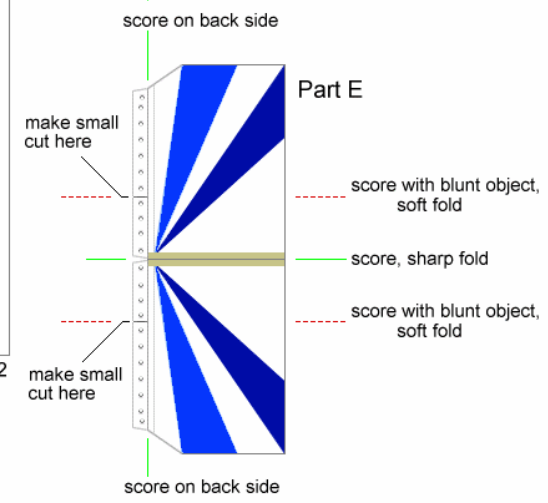
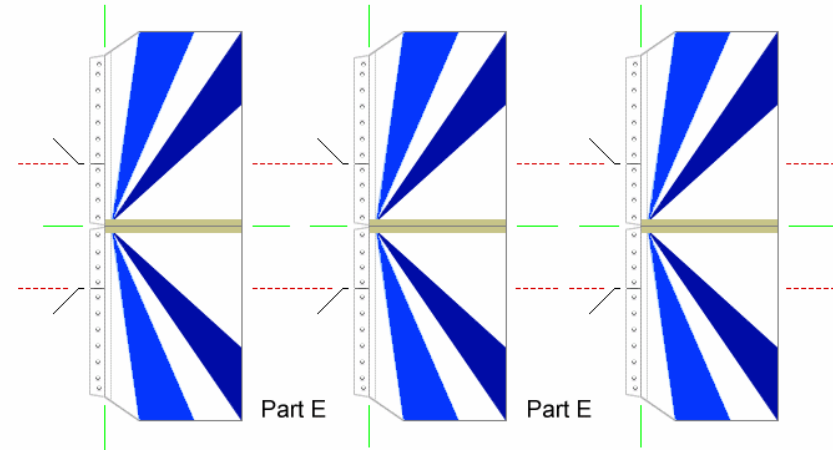
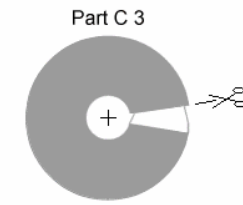
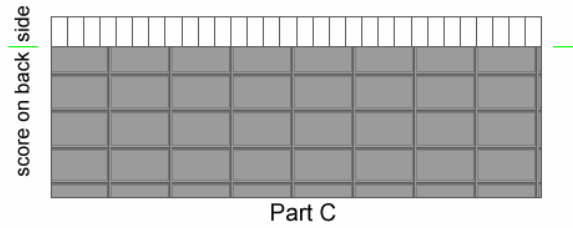
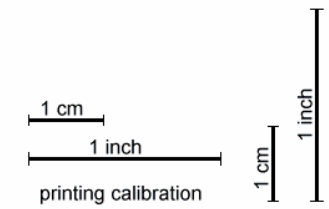
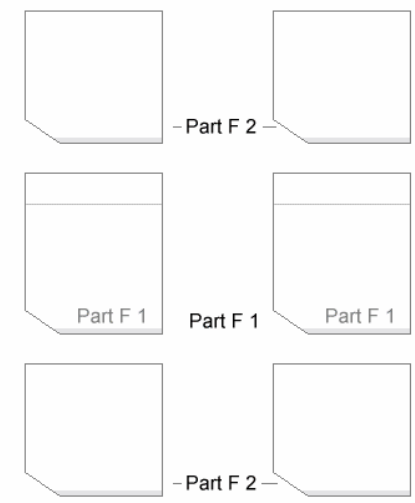




A 2 stage sounding rocket from Brasil.



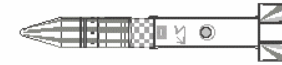
If you print this model on 150 grams (70 pound) paper or lighter it is better to laminate these parts onto the same thickness paper it is printed on.



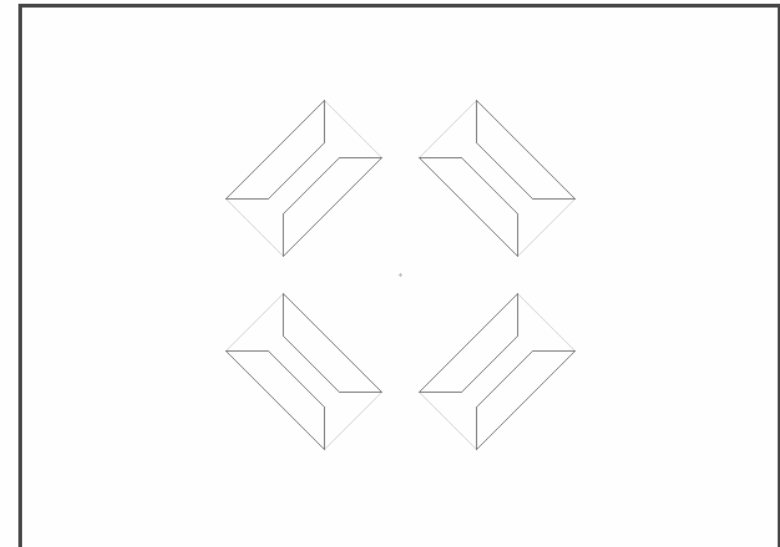
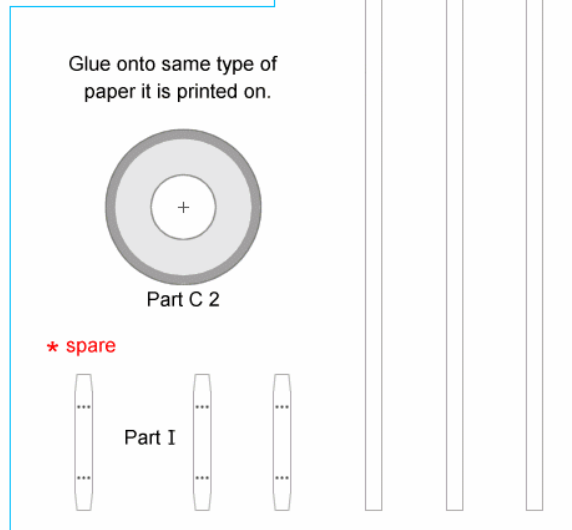
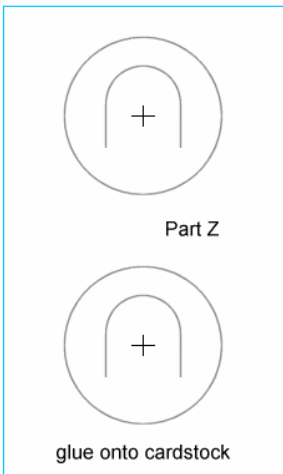
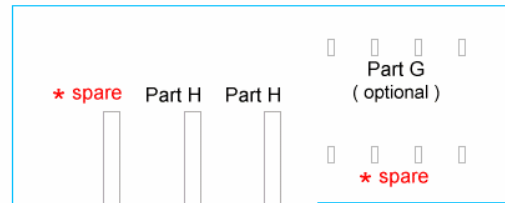
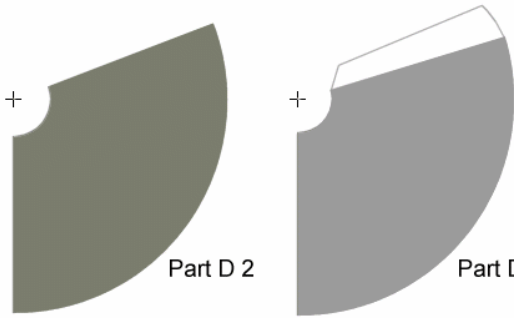
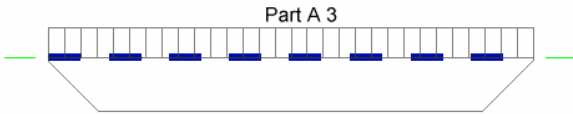
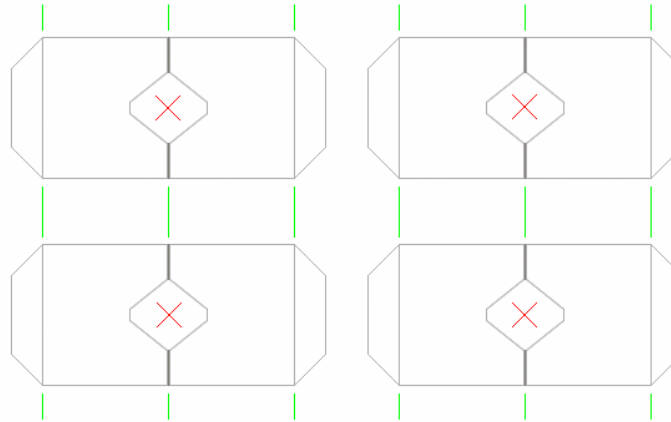
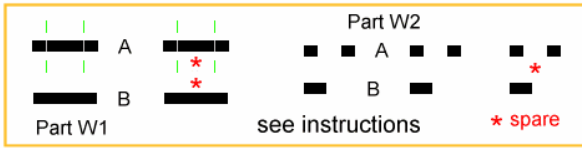



VS-40

A 2 stage sounding rocket from Brasil.




Scale 1:48





VS-40



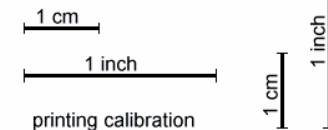
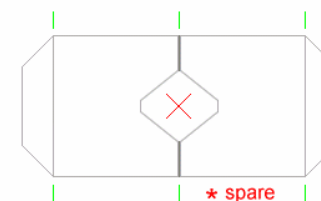
Test vehicle for sounding rockets (1993 & 1998)
 CTA / IAE CLA CLBI Fokker **1:48**

Unlike other sounding rockets, this one is not a sounding rocket in itself, but a testbed for equipment that shall later be used for actual sounding rockets, which are designed to gather all sorts of data such as temperatures at different heights, ozone density, solar radiation (Röntgen, Ultra Violet, Infra Red, etc.) and much more.

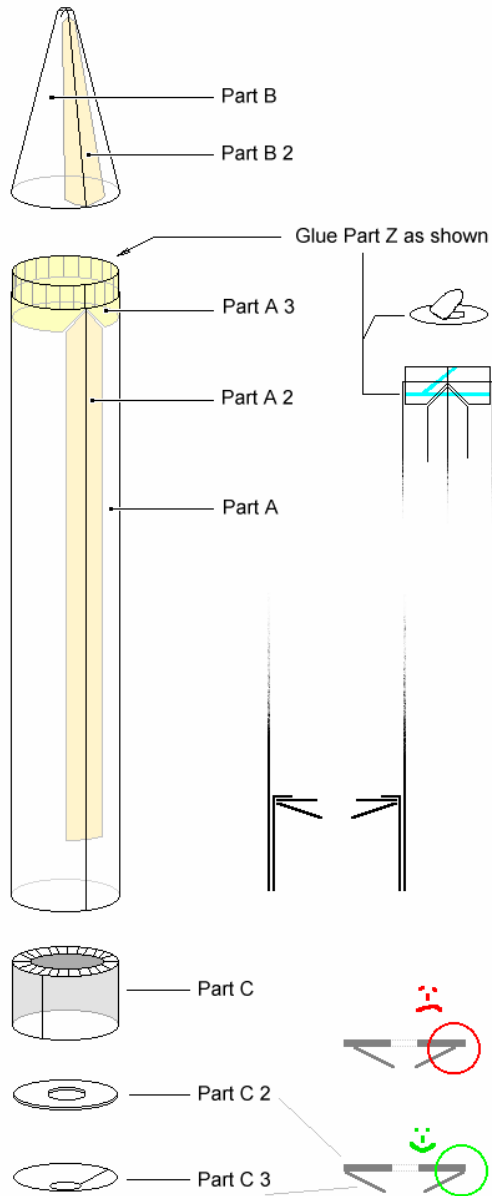
This rocket was built to test systems for remote control, chute deployment, emergency self-destruction and telemetry transmissions. The rocket engines themselves were part of the testprogram, too.

Maximum altitude: 640 km with 500 kg payload, 1000 km with 200 kg.

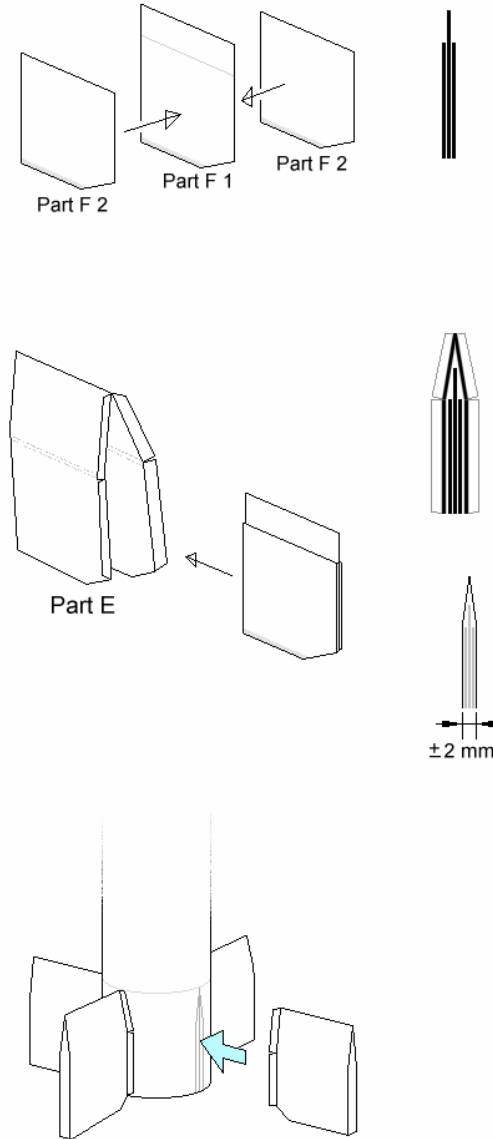
Glue stand onto wooden board or thick cardboard.



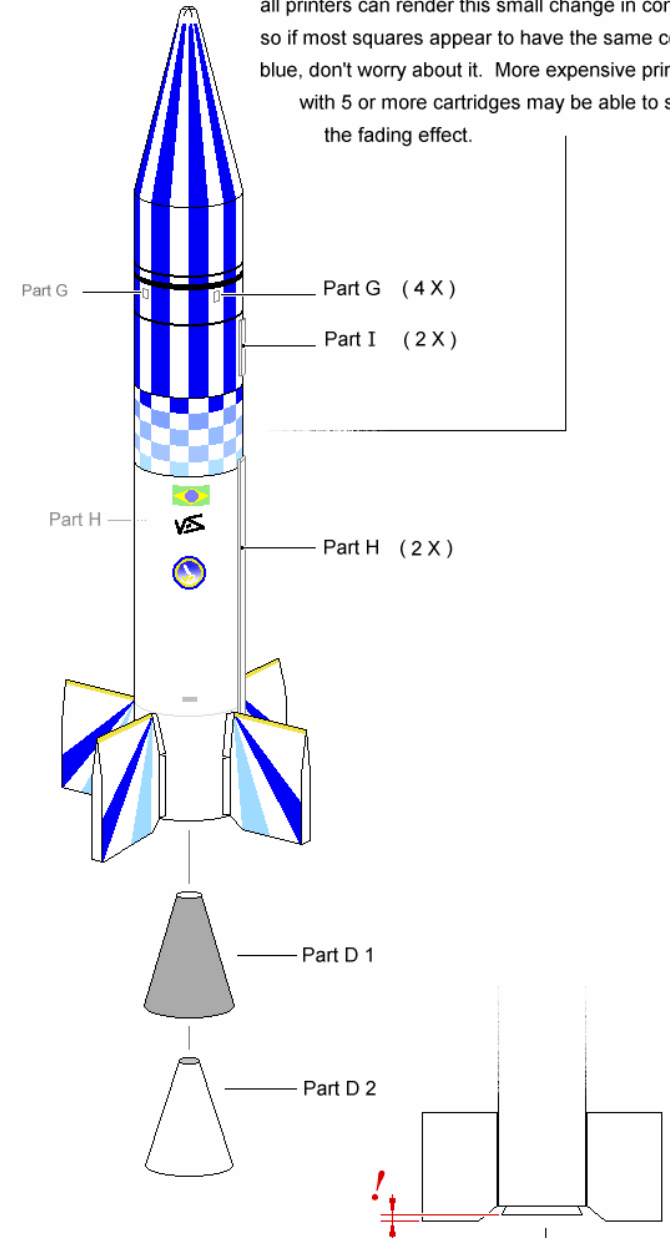
Instructions for building the VS-40 sounding rocket.



Make 4 fins like this :



The blue squares fade into a lighter shade of blue. This is visible on a computer screen, however, not all printers can render this small change in contrast, so if most squares appear to have the same color blue, don't worry about it. More expensive printers with 5 or more cartridges may be able to show the fading effect.

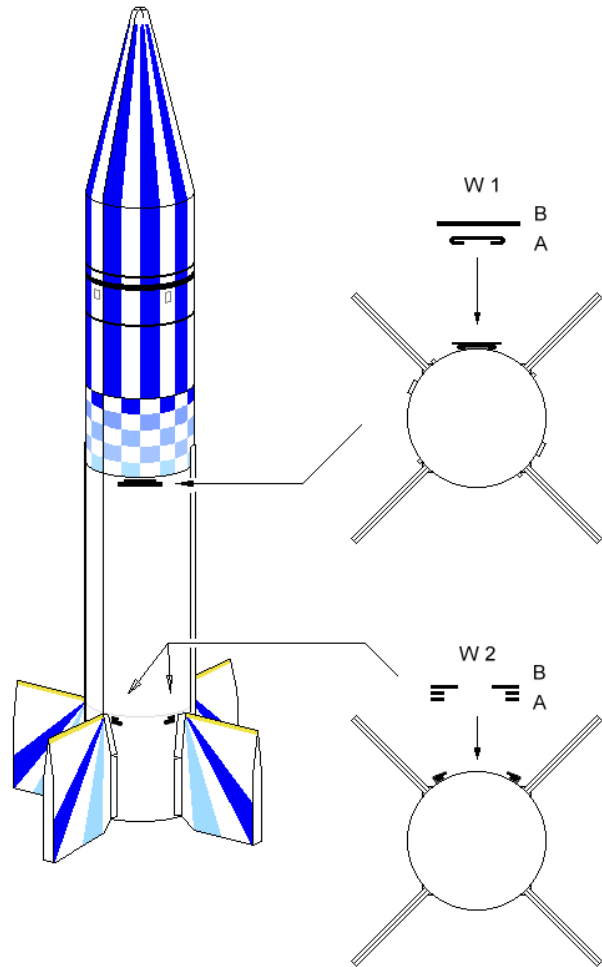


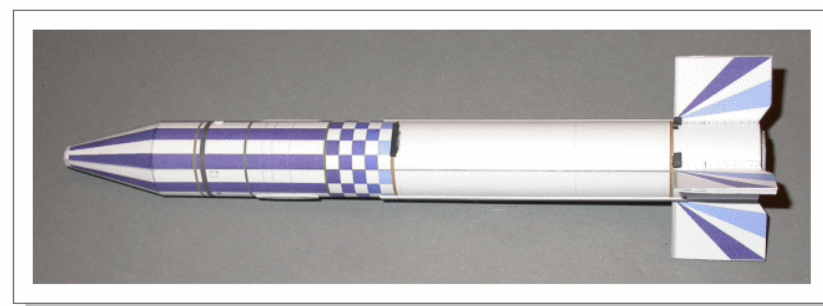
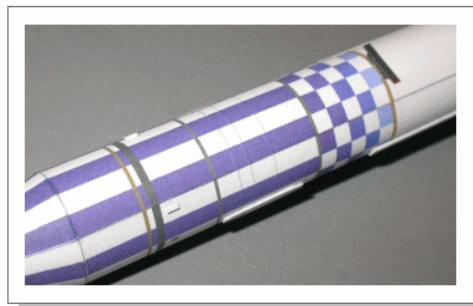
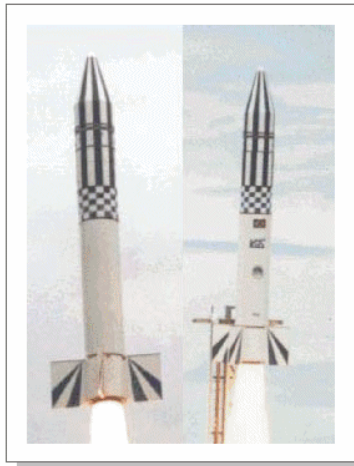
If needed, make the hole in part C 3 just a little bit wider to achieve correct positioning of the engine bell, as shown.

Parts W 1 and W 2 are optional.

They are small and may be difficult to assemble.

Tip: use black cardboard (colored, through-and-through)
and cut out small strips.





VS-40

Brazilian sounding rocket.