

APOGEE

PEAK OF FLIGHT

NEWSLETTER

Saturn V Construction Materials

By Tim Van Milligan

Many folks have asked for list of materials needed to build the Saturn V kit. They want to make sure they have them on hand when their kit arrives, so that they can start building right away. Here is the list:

ADHESIVES

- You will need a good aliphatic glue, both thin and thick cyanoacrylate adhesives, rubber cement, and liquid plastic cement. Spray adhesive is required for positioning the embossed paper wraps to the rocket. It isn't to bond them in place, but just to hold them in position while you glue down the edges. This adhesive is available in an aerosol spray.
- You will also need the Fix-It Epoxy Clay. This can be purchased directly from Apogee Components.

TOOLS

The following are the suggested minimum tools you will need to construct your Saturn V.

- Aluminum Angle - for drawing straight lines along the body tube. You can buy long extrusions from building supply warehouse stores, and cut off a 2 foot length.
- Pencil
- Metal ruler
- A sanding block or sanding "Tee," along with fine and course sandpaper. You'll also need some fine "wet/dry" sandpaper for sanding the paint primer smooth.
- Small and large paint brushes
- Hobby knife with lots of new replacement blades
- Masking tape (buy the expensive stuff - it's worth it on a project like this one).
- Transparent tape
- Wooden stick - to apply glue deep in the body tubes.
- Small teflon tube to use as an applicator wick for thin CyA adhesive
- Scissors

- Cuticle scissors that has a curved tip - Very important for cutting out the vacuum form fairings on the base of the rocket.
- Tweezers
- Razor saw
- Large Paper Clasp (2) - used to hold balsa parts together while the glue is drying.
- Sponge-backed sanding pads (optional)
- Diagonal wire cutters
- Single-edge razor blade
- Carpenters wood filler (sometimes called "Fill-N-Finish")
- Plastic or rubber gloves - used when working with epoxy.
- Fine-tip black permanent marker (Sharpie Brand works good)
- "Liquid Masking Medium" (Micro-Scale brand from purchased from hobby stores works good.)

PAINT

- Sandable spray primer paint (2 big cans)
- White spray paint
- Black spray paint
- Silver spray paint

SOLVENTS

- Rubber cement thinner
- Rubbing Alcohol

Optional Building Materials:

● During the construction of this rocket, you'll be given optional steps that can be used to strengthen the parts of the rocket. This includes making additional centering rings to stiffen up the transitions on the rocket. To make these rings, you'll have to supply your own lightweight cardboard. We recommend the lightweight cardboard; such as that you can get from an empty breakfast cereal box.



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