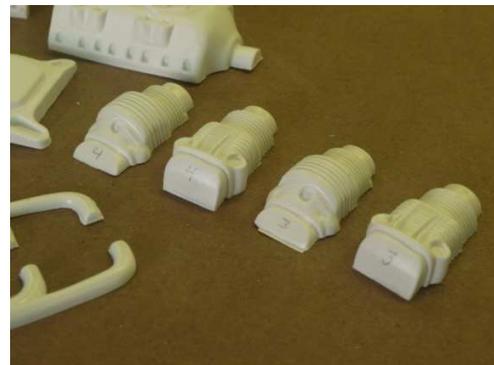
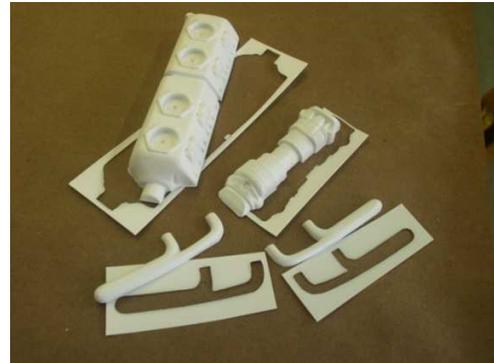


4 cylinder opposed dummy engine.

Assembly starts by sanding the back of the part sheets. I prefer wet sanding with 180 grit on a flat surface but I've had reports that holding the parts against an orbital sander works equally as well. Either way, you can track your progress by holding the plastic up to a bright light. Your goal is to thin the plastic sheet to the point that it only takes a light cut with a hobby knife to separate the parts.

note that the cylinders halves are numbered to keep the cylinders in their original pairs. This is important so the narrow edges can match perfectly. Model cement is used to bond the plastic, never use CA adhesives.

Aligning the edges of the motor case can be made easier by cutting narrow strips of plastic and bonding it to the edge of one of the case halves.



To apply adhesive evenly to the edges of the cylinders and exhaust parts. Apply glue to a flat, non porous surface and dip the edges of the part in the glue. give it a moment to soften the plastic then align the parts with light pressure to hold them together. Keep a rag handy to clean your fingers and take your time. You have about 2 min to get the edges lined up. let the parts dry over night so the seams can be sanded.



After the paint is applied (most spray paints are compatible) scratch the surface of the cylinder heads to remove the paint where they will touch. Use the engine case to as a fixture to align the heads and bond them where they touch. A straight edge along the cylinder parting seam will ensure they are aligned.



scratch the paint off the engine case where the cylinders will bottom out. and bond the cylinder pairs in place. Be sure to look at the front of the motor straight on to make sure they are not drooping down.

let it dry completely.



drill holes for the push rod tubes and slide them in place, coffee straws or aluminum tubes work well for this, secure them with a dab of epoxy or silicone before bonding the valve covers in place.

If you've been thinking about a model with an exposed engine like this a E flite 15 will fit inside the engine case.

