

# Space Marine Attack Bike

## My Assembly Notes:

My method is to print on plain paper then glue that to file card or cardboard from cereal boxes. This project might be better done by printing directly on card stock.

1. The "Headlight" for the Bolter Fairing is a very tricky part: small, very small tabs, and complex folding.
2. "Engine" edge strip isn't matched to contours of the sides. Don't cut the tabs until after creasing the side folds, then cut the "V"s to match the corners of the sides.
3. 2mm pieces seem very thick, try using 1mm then build them up as required.
4. The floor boards have "2mm" thick foot pads and a rectangle at the rear. Don't glue them in until the motor has been glued in. I believe that the rectangle goes on the bottom.
5. The fenders ("Mudguards") and the fuel tank are also tricky parts. Dry fit and assemble them one small bit at a time.
6. Mufflers are very small; the "caps" were glued to the tabbed end. The best way to glue small cylinders that I've found is: Put the scored muffler around a thin stirring straw, apply glue to the tab then press the edge against the tab. Caps were glued and applied over the folded tabs then the muffler, with the caps down, was pressed against a flat surface and a toothpick was used inside to press the tabs down against the cap.
7. Assembly has begun; I'm going to complete the rear of the bike then the front. I started by gluing the engine to the Floorboard, centered with the angled edge forward. The Fuel Tank was glued to the top of the engine, centered with the large end forward. The front edge of the Fuel Tank is flush with the front edge of the engine. The Rear Fender "flat" short middle section was glued to the rear of the engine, centered and with the bottom edge against the Floorboard.
8. The seat was glued to the Rear Fender and the Fuel Tank (this leaves a 1.5mm gap between the bottom of the seat and the top of the step down on the engine). I'm not certain that I put it on correctly, but the folds match the Rear Fender angled middle section so that the 2mm thick piece can be glued to the backrest (which is on the level middle section). The mufflers were glued to the Rear Fender, one above the other, the bottom one at the lower edge and even with the rear edge of the side piece. The muffler caps are to the rear. Exhaust pipes need to be made from the bottom/back of the engine to the front of each the mufflers. I made mine out of 1.5mm thick card, cut in a 2mm wide strip cut at a 45 degree angle at one end then cut to length to fit into the muffler. The top muffler pipe runs from the muffler to the point at the back of the engine below the seat. The bottom pipe runs from the bottom muffler, over the front of the top pipe, on the floorboard to the front of the engine. The "pipes" are rectangular in cross section, but at this size, it's very hard to tell.

9. The rectangular piece does go on the bottom of the floorboard, just forward of the Rear Fender. Also, to be correct, the Foot pads inside the floorboard should be forward of where the diagram shows and angled up at the forward end.
10. Prototype wheels are being made from paper: 17mm discs of .5mm card, 56mm X 8mm strip of light card. This will be the "inner" portion of the tire. The "tread" is 1mm thick card discs with the tabs folding over the circumference of the "inner" tire. The hubs are 5mm diameter X 1mm thick discs glued to the centers of the "inner" tire. Final dimensions are 19mm diameter, 1 cm wide tires with an overall (including hubs) width of about 11mm. I glued the wheels into the fenders after gluing in small 2mm thick spacers at the back and top of the inside of the fenders. This doesn't show and makes for a stable model.

## Additional Notes

1. The "redesign" Bitmap shows wheels with a different (better) design. The "tread" has ears that when the tread is glued around the wheel, are then bend over the edge and glued down.
2. The Bitmap has been cleaned up somewhat and a few changes have been made, including cuts in the fairing for the Bolters. These should be cut down the sides and folded to the back (inside) then the Bolters glued in them. The tabs that are formed on the inside are then glued to the top of the handle bars inside the grips. The fairing with the Bolters was the last thing I installed. (I used sections of a round toothpick for the Bolter barrels.)
3. The footpad locations have been moved forward. Put them in after putting in the exhaust pipes.