

GOLDEN SKIES R/C AIRCRAFT, Inc

Custom Electric Motor Mount and Battery Box Installation Instructions for Bampf 3D Extreme

Assemble the Motor Mount and Battery Box

1. Assemble the Motor Mount. Finished unit should look like Figure D.
 - a. Glue and clamp the two (2) side pieces together. There are four (4) side pieces. Glue and clamp two (2) each together and the remaining two (2) together. Be sure to align all edges and holes perfectly. Take care to use pieces that show a laser scribed dashed-line on the outside of the left and right hand sides. These lines should align 1/8" below the horizontal line on the firewall.
 - b. Glue and clamp the two (2) front pieces together. Be sure the laser scribed lines are visible and oriented to the front. (This is the new "firewall" mount for the electric motor.) Be sure to align all edges, tabs and holes perfectly.
 - c. Dry fit the Motor Mount together in the order given below (d). The units are made from 1/8" light plywood and the thickness can vary from 0.118" to 0.125". The slots (tab holes) are design for the small thicknesses. In the event that the tabs are too big for the holes, do not try to enlarge the holes, but FLAT sand the back side of the tabs area until a fit is achieved. The tabs should fit snugly into the holes.
 - d. When the above assemblies have set up, assemble the motor mount in the following order: **(Make sure there is NO GLUE extrusion on the interior corners of the Motor Mount.....** the Battery Box must slide into the rear of the motor mount. (Figure A)
 - i. Do 1.d.ii through 1.d.vii contiguously and before the glue sets.
 - ii. Glue bottom piece to assembled front plate.
 - iii. Glue one side in place
 - iv. Glue the opposite side in place
 - v. Glue the top in place
 - vi. The unit is designed to self align, but be sure it is perfectly square.
 - vii. Clamp all sides until glue sets.
2. Assemble the Battery Box; finished unit should appear as in Figure C.
 - a. There are six (6) laser cut pieces (including the "Door")
 - b. Secure the bottom piece to a flat surface
 - c. Glue one side in place and make sure it is perfectly perpendicular to the bottom piece.
 - d. Glue the opposite side in place, being sure it is perfectly perpendicular to the bottom plate.
 - e. Glue the two top (2) pieces in place. Check to be sure the entire unit is square.
 - f. Add tri-angle balsa stock to the interior corners as desired. (not supplied)
 - g. Check the fit of Battery Box in the Motor Mount. The front of the Battery Box should slide snugly and firmly into the rear of the motor mount. Figure A.

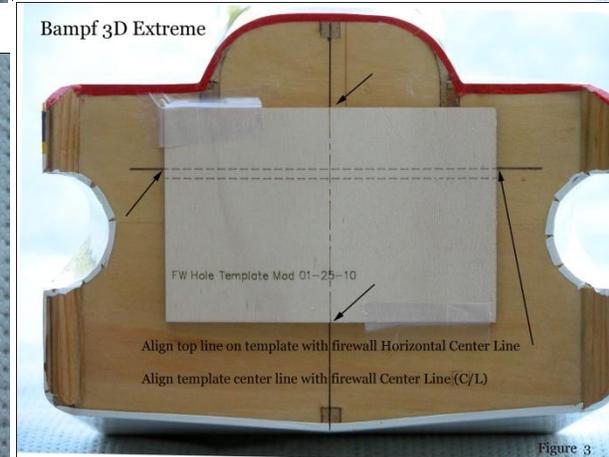
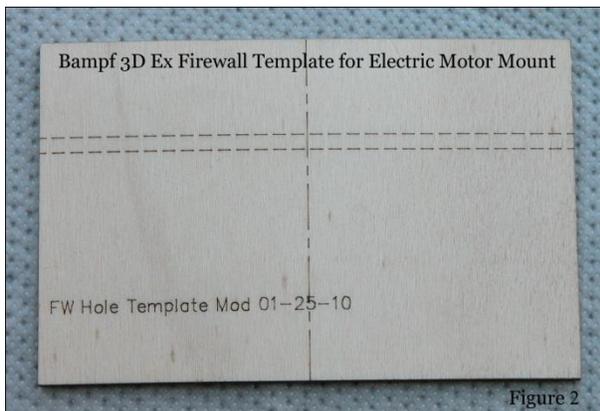
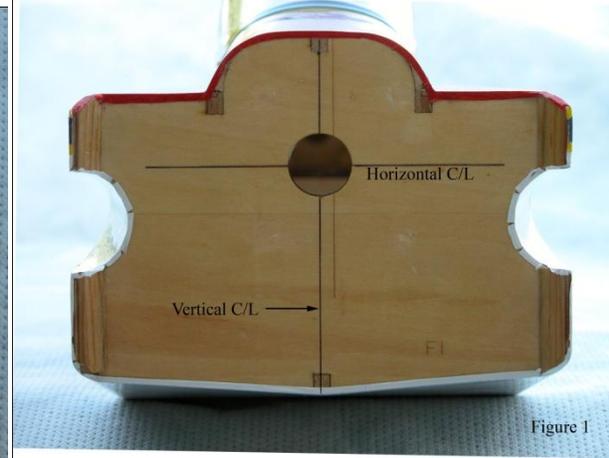
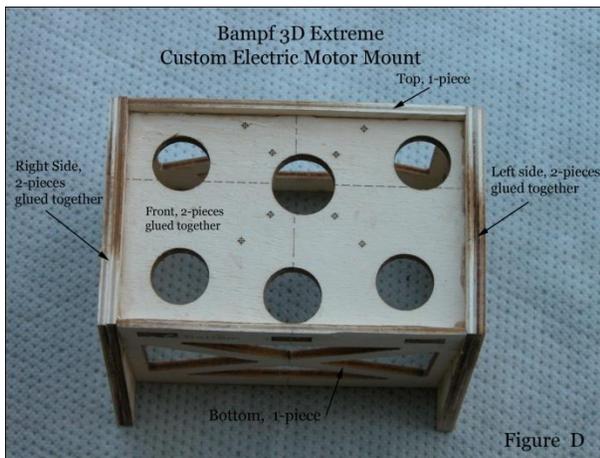
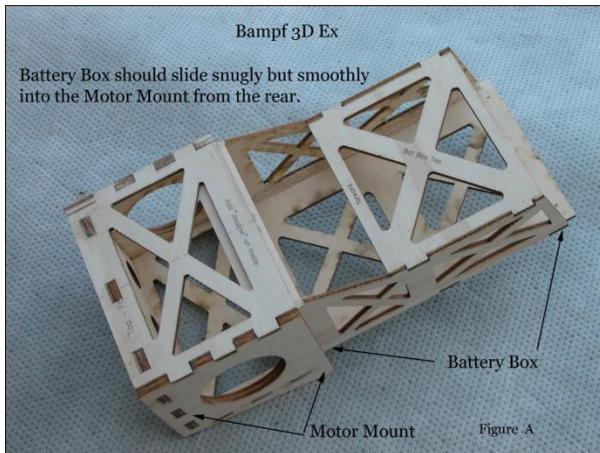
Assembling the Battery Box and Motor Mount to the Bampf 3D Extreme

3. Draw a vertical center line on the Bampf's Firewall as shown in Figure 1 and also extend the Firewall horizontal line to the left and right for better visibility.
4. Place the Firewall Hole Template (Figure 2) on the firewall and align the template's top-horizonal line in line with the Firewall's horizontal line and the template's vertical line with the Firewall's vertical center line (C/L). Figure 3
 - a. Draw a line around the template to mark the firewall where to cut the firewall hole. Figure 4. The line should just "touch" the bottom of the upper fuselage runners.
5. Cut the firewall **JUST INSIDE THE LINES** drawn on the firewall. (Start small and enlarge)
6. Check to see that the front end of the Battery Box will fit into the firewall hole snugly.
 - a. Adjust hole to achieve a snug fit.
7. The interior bulkhead must be cut to also match the Battery Box exterior dimensions.
 - a. It may be helpful to use an adjustable square to locate the Battery Box position on the interior bulkheads. Figure 7. Position the square against the edges of the hole in the Firewall and flush with the Firewall front surface, then mark the same position on the internal bulkhead(s). Move the square all around the Firewall hole and continue to mark the interior bulkhead.
 - i. Cut the interior bulkhead along the line you marked in step 7.a above.
 - b. Slide the Battery Box into the fuselage (Figure 9) checking for fit.
 - c. The Battery Box should fit snugly through the Firewall and interior bulkheads.
 - i. Adjust as necessary. The Battery Box should be square with the Firewall and horizontal and squarely in the Fuselage.
 - d. Position the Battery Box with approximately 1/2" of the Battery Box protruding from the front of the Firewall. (Figure 10)
 - e. Glue (epoxy preferred) the Battery Box in place.
 - i. It may be useful to use 1/4" balsa tri-angle stock to secure the Battery Box to the interior bulkheads. (not supplied)
 - f. Be sure there is no glue at the intersection of the Battery Box and the firewall's front surface. The Motor Mount must fit over the Battery Box and against the Firewall. (Figure 11)
 - g. The Motor Mount slips over the Battery Box and firmly against the Firewall. (Figure 11)
 - i. Apply glue (epoxy preferred) on the battery box and a bit on the interior and back edges of the Motor Mount and slide the Motor Mount on the Battery Box and firmly against the Firewall.
 1. Clamp in place and let set.
 - h. A Battery Box Door is supplied and it is left to the Pilot's discretion if he wants to use the door. (Suggestion: The door may be hinged to the Battery Box and secured with Velcro®.)
8. The Golden Skies R/C Bampf 3D Extreme, Electric Motor Mount and Battery Box assembly is now complete.

The mounting of the electric motor and Battery is left the individual pilots. The Battery Box is designed to accommodate at least 2 each 7P2S LiPo batteries. The combined unit is designed to allow the battery to be moved fore/aft for Pitch Balance. The laser scribed mount holes on the motor mount were designed for an AXI 4130 electric motor. Position the electric motor to center the prop and spinner on the Bampf's

Cowl. (See Bampf assembly manual) Securing the battery with the Battery Box is at the discretion of the Pilot. Note: Please remember to provide an air exit vent in the bottom-rear of the Bampf to allow for air flow. The combine Battery Box and Mount weight is ~ 4.3 oz.

GOOD FLYING



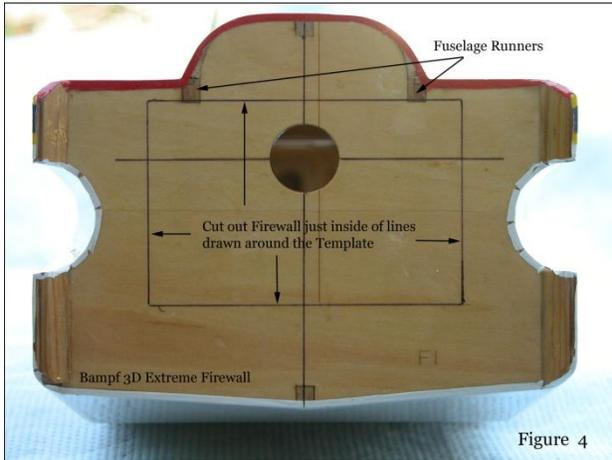


Figure 4

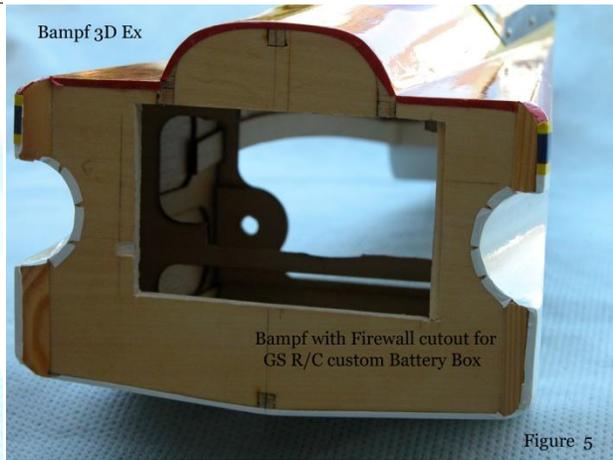


Figure 5

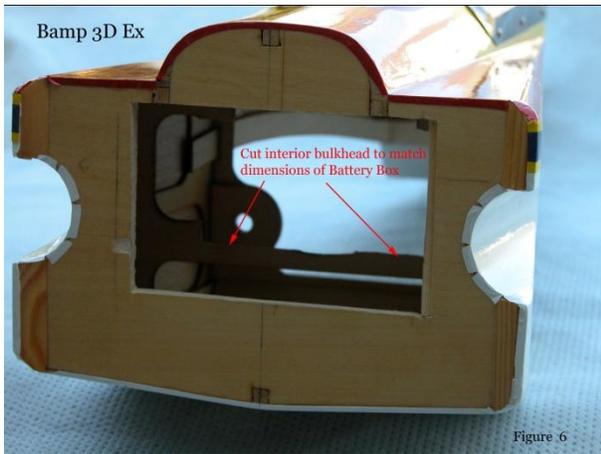


Figure 6

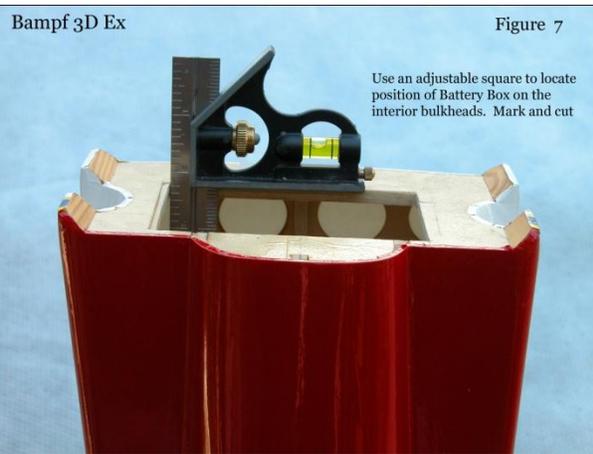


Figure 7

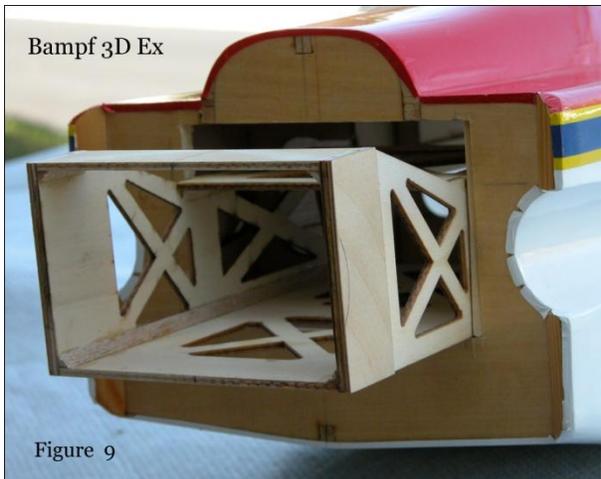


Figure 9

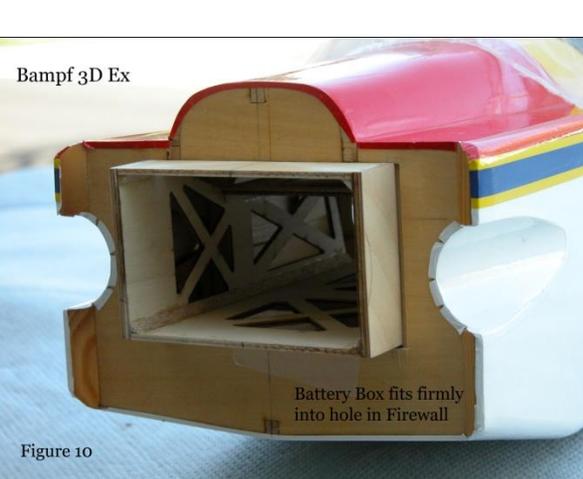


Figure 10

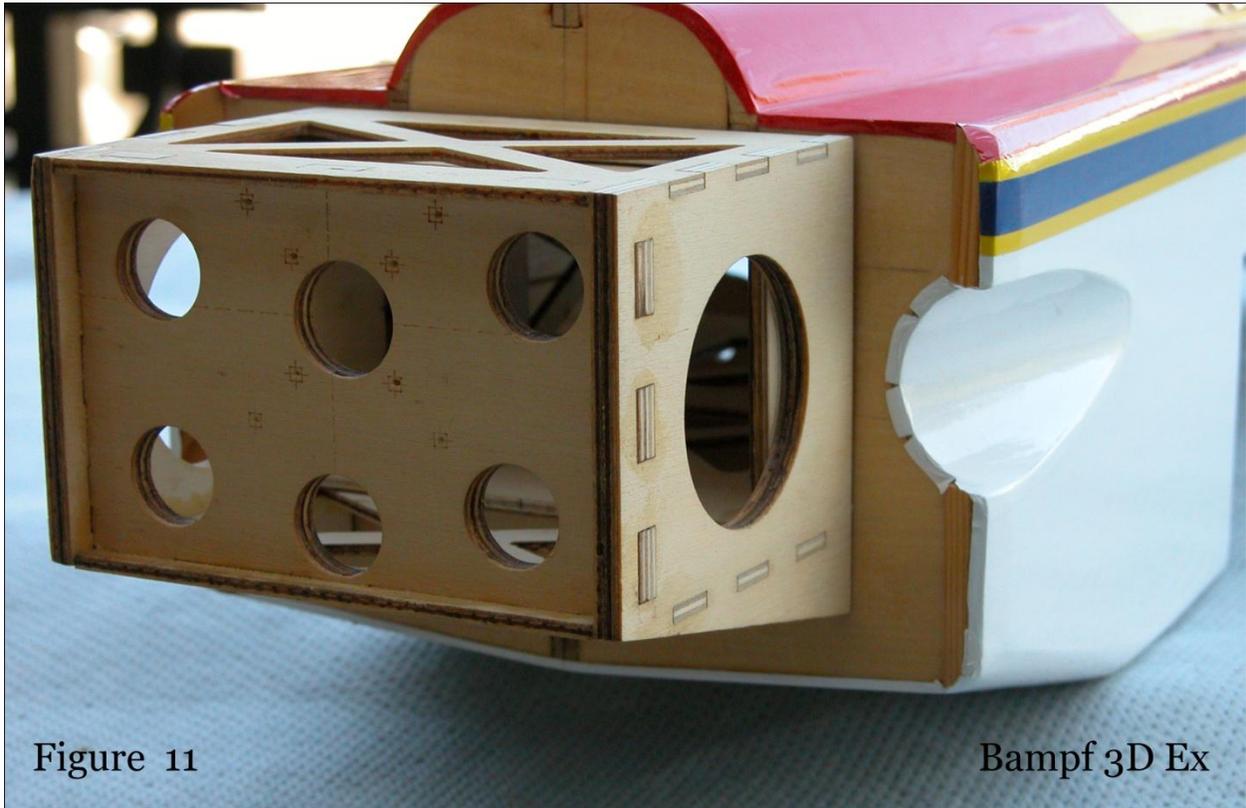


Figure 11

Bampf 3D Ex

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