

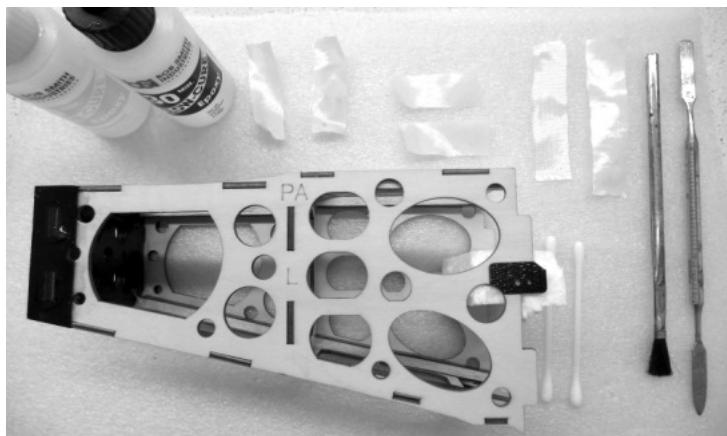
## Katana MX motor box assembly addendum

**When assembling your KMX or replacing your motorbox after a crash, please follow these few precaution steps to verify your motorbox will withstand the high torque of the Thrust 50.**

The motor box comes pre-glued, with the correct motor thrust angle built into the pre-drilled firewall.

**CAUTION-** The motor box has been designed, tested and drilled for the Thrust 50 motor. Using a larger motor or using an improper propeller size or a prop adaptor which is out of true can lead to a motor box failure which will cause damage to your KMX. For technical data on the Thrust 50 please visit [www.thrustmotors.com](http://www.thrustmotors.com) and download the data sheet.

**CAUTION-** Once glued the motor box is extremely robust, however, following any crash, propeller ground strike or hard landing it is essential that the cowl be removed and all joints inspected for cracks and repaired as required. **Do NOT use any imbalanced, oversized, chipped propellers or with an off-centered hub hole as excessive vibrations can lead to premature motor box failure.**



1. Prior to installation **go over all pre-glued joints** with white carpenters' glue or epoxy (**except firewall!!**) to ensure they are properly bonded and no gap between the parts is present so it will be able to withstand the torque created by the powerful Thrust 50 motor.

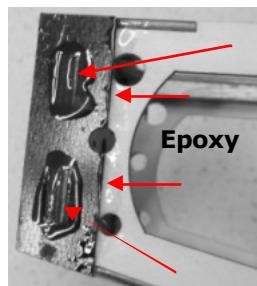
Go thoroughly over the entire motor box and verify that there are no cracks. If there is any, it must be fixed properly with epoxy.

2. Do NOT modify firewall. Supplied brass tube should be discarded.

3. if using the Thrust 50 in your KMX or Extra MX motor box - make sure your mounting bolts are 10mm long. Due to the thick firewall in PA models, shorter bolts may strip the thread and cause the motor box to fail under the extreme thrust of the T50/Q70 setup. M3 bolts should be available at any hardware store.

4. Locate the supplied composite plates and place them over the motor box sides in order to differentiate LEFT and RIGHT hand side.

Lightly sand/roughen one side of each plate to allow better gluing surface. Apply a medium layer of slow cure epoxy over the entire surface of the plate and the motor box sides then place the plates over the ply and align them properly. Use a few pins or modeling clamp to hold the plates tight onto the motor box with no gap until the glue cures.



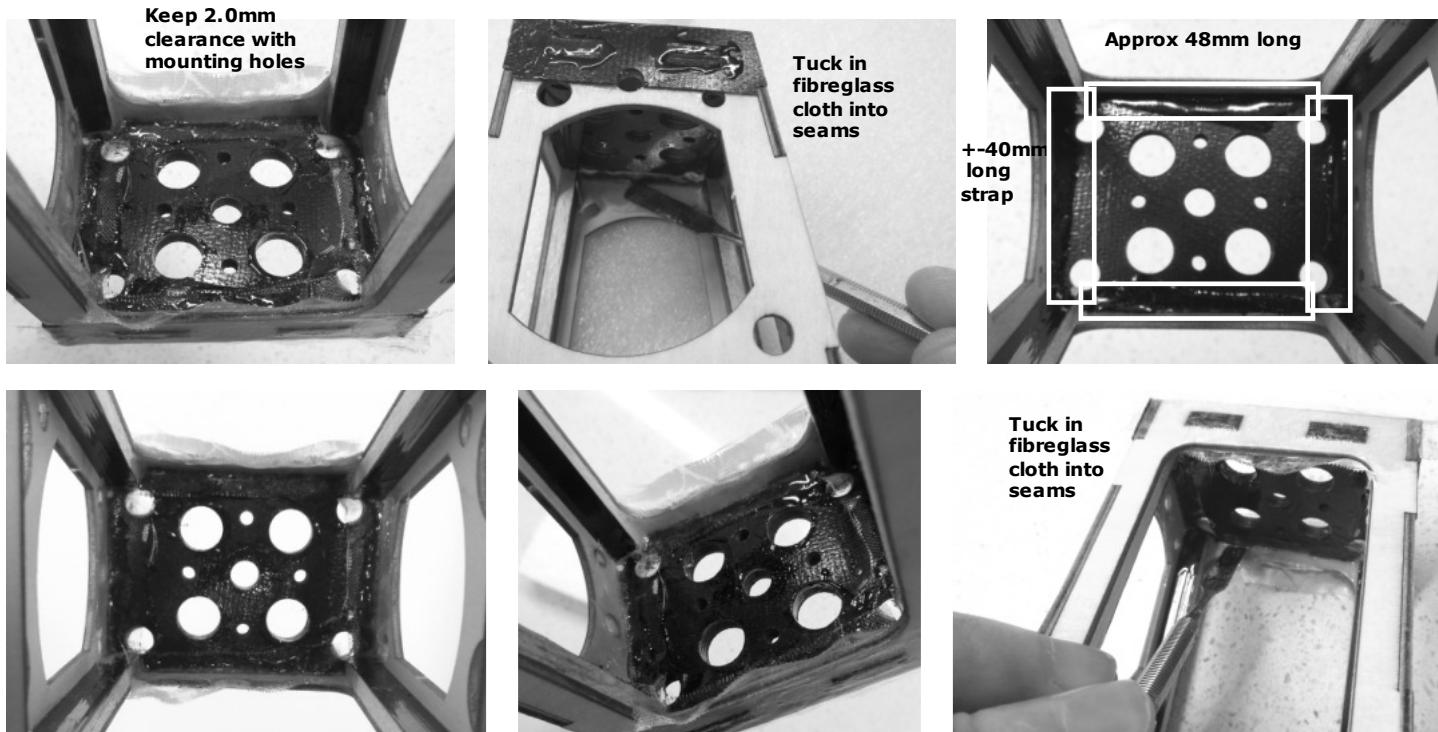
Apply some epoxy over the firewall tabs and along the rear seam of the plates, especially if there is some gap between the plates and ply.

Note: If these plates are pre-glued in your motorbox, verify the integrity of the gluing by trying to peel them off. If they come off, re-glue them with extra epoxy.

5. Cut the supplied fiberglass cloth to fit the four inner sides/corners of the firewall.

Brush epoxy along the seams of the firewall (top bottom and sides) including corners. Then place the fiberglass cloth over each seam/side (**2.0mm below** the motor mounting holes) and brush more epoxy over it to soak in. Using a flat tool tuck in the cloth into the seam leaving no gap with the ply. Let it dry.

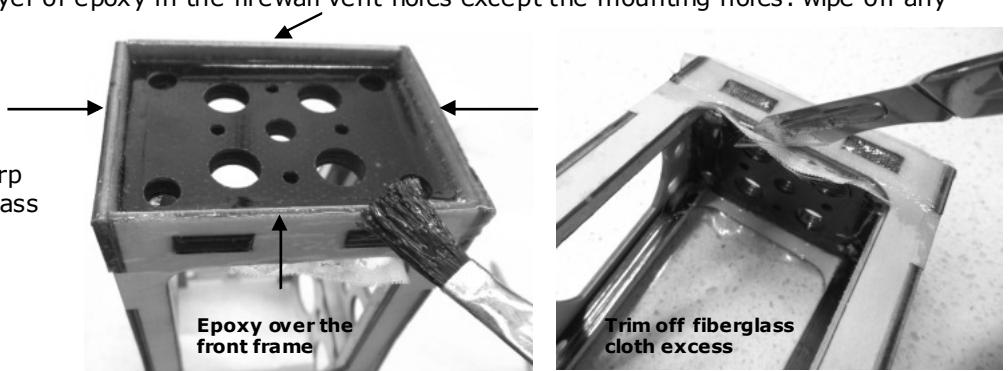
**Note:** a clearance of 2.0 mm from the mounting holes is a MUST otherwise the motor will not sit flush on the firewall, resulting with incorrect thrust angle. Wet epoxy excess can be wiped off and if dry can be shaved off. Leave the fiberglass cloth excess as it will be trimmed off later.



6. Cut two fiberglass straps approximately 70 mm long. Brush epoxy over the outside top and bottom sides including corners. Then place each strap over and brush a thin layer of epoxy on top as you did before. Continue by brushing a bit of epoxy over the front frame and sides of plates.



7. Using a cotton bud apply a thin layer of epoxy in the firewall vent holes except the mounting holes . wipe off any excess where the motor is mounted



8. Once epoxy is fully dry, use a sharp modeling knife to trim off any fiberglass cloth excess.

9. Please, make sure to follow the KMX instruction manual to complete the motorbox installation to the fuselage. use only epoxy and make sure you cover the **entire** CF rods , especially the one at the front. Spot gluing will **NOT** work and will allow excessive flex of the front bulkhead which can cause the motorbox to fail under loads.