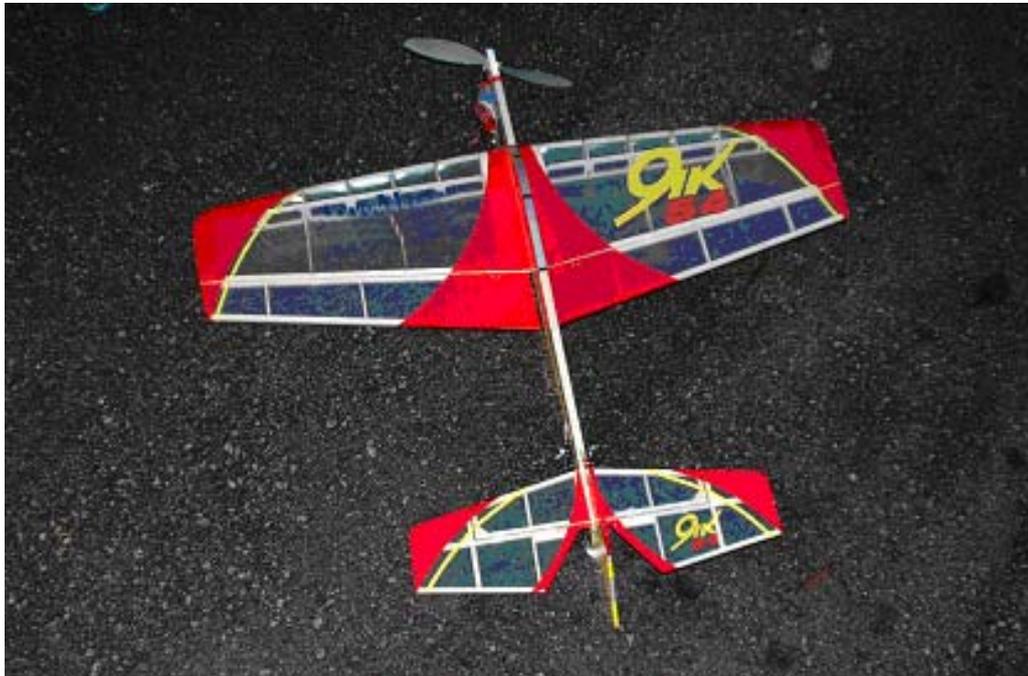


# Yak-54

## Instruction Manual



The kit should include the followings:

1. Fuselage x 1
2. Main wing x 1
3. Stab w/ elevator x 1
4. Vertical fin w/ rudder x 1
5. Hardware pack x 4



1. Before start building, we'd like to suggest that you iron the covering on entire plane, as they may not stick that firmly as you expect. And it's easier to iron before they are put together. .



2. After the ironing job. You can start the assembling by cutting out the covering where they should be open, such as servo mount, wing slot etc.



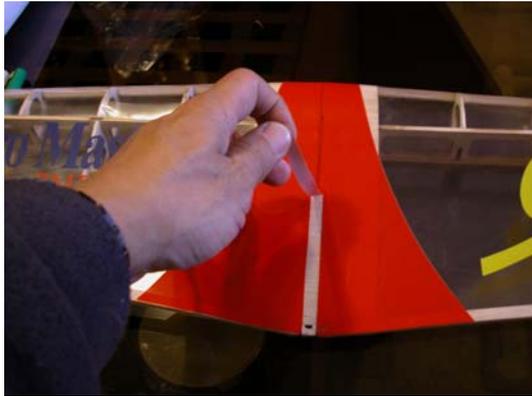
3. Measure and draw a center line on the main wing.



4. Insert the wing into the wing slot. Make sure both side of the wing is the same length. Draw lines along both side of the fuselage.

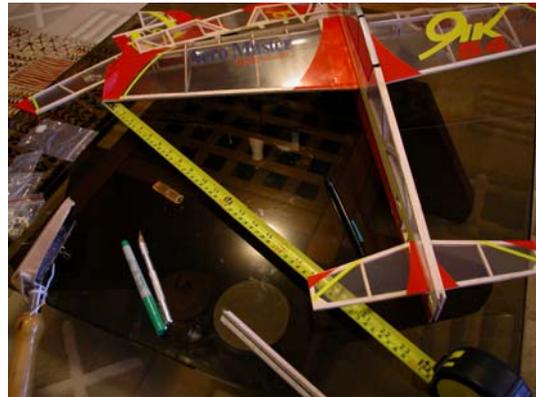
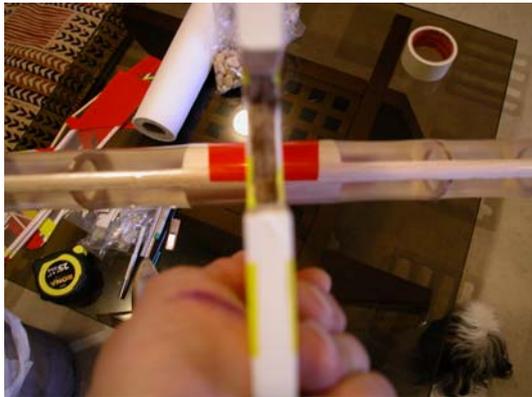


Then cut off the covering where the CA is going to apply to.



**Peer off the covering where been cut. Put it back into the fuselage wing slot,**

**Before you apply CA to it, inspect the fuse and the wing. Make sure it is square and both side of the wing measured the same.**

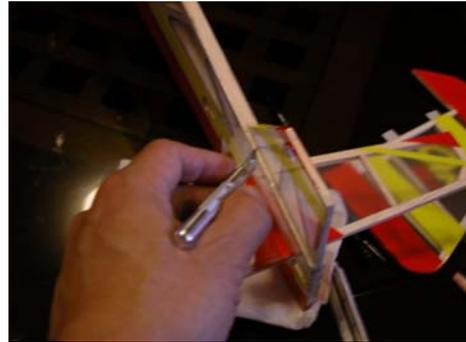


**5. Now install the stab. Repeat the same procedure when install main wing. Measure the distance from wing tip to stab tip. Adjust the stab until the measurement is equal. Also inspect if it's level with the main wing. Make adjustment if necessary. CA it when inspection is done and everything is nice and level.**



**6. The next step is to CA the elevator. This step has to be done before you CA the vertical fin.**

**7. Now install the vertical fin.  
Don't forget to cut off the  
Covering where CA should  
apply to.**



**8. Install and CA rudder in place  
after the fin is firmly glued.**



**9. Measure and glue the control horns  
in place with the hole right on the  
hinge line and the horn is square  
with the hinge line.**

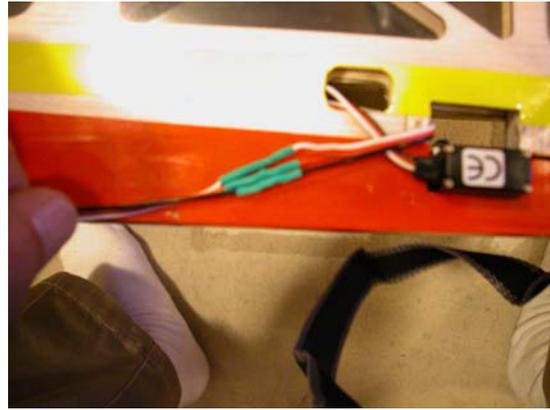


**10. The motor mount can be installed now. After the mount and the  
motor is installed, you can manually bend the motor mount by  
holing the motor to set the right thrust angle, Normally 3 degree  
will be good.**

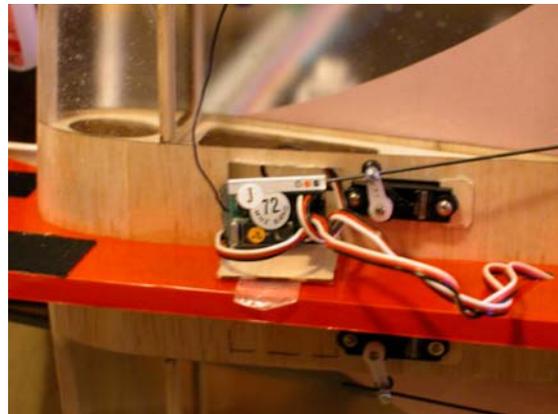
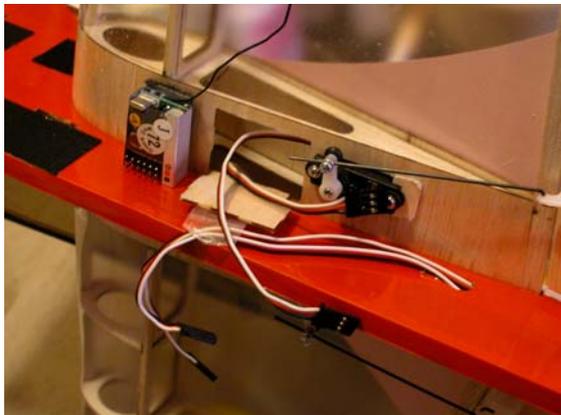


**11. Now it's time to install servos.**

**Aileron servos can be installed as is. But the elevator and rudder servo wires need to be extended by solder the extension wire on. So they can go through the wire tunnel on the fuse.**



**12. All wires should go to the receiver compartment in the wing. So make sure your extension wires are long enough to go to that compartment.**



**13. After all servos are installed. It's time to plan for the battery and speed controller location. This kit comes with two location for the battery. If you are going to use Li-po that's under 1000 mah, then put it in the front location, If it's more then 1000mah. Put it at the rear location.**



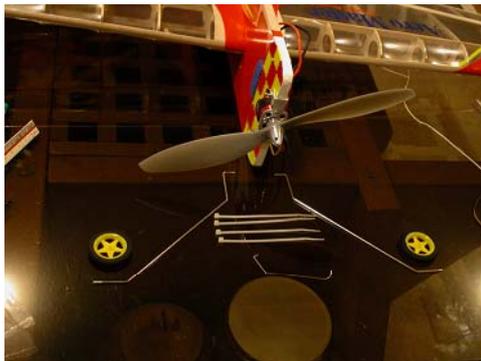
**14. As the photo shown to the right, is a 910 mah 3 cell Li-po pack. The motor is a 370 size 960 KV out-runner and a 20A controller.**



**15. Now hook up the battery and the controller, turn on your radio. Then start make up the push rods for every control surface.**



**16. You can choose to install or not to install the landing gear.**



**Now that you have everything done with this kit, the only thing left is to set the control surface properly.**

**For sports flying, set the throw as following**

**Aileron 15 degree  
Elevator 20 degree  
Rudder 15 degree**

**Set the CG at 3 inch from leading edge of mainwing.**

**For 3D flying, set the throw as following**

**Aileron 25 degree  
Elevator 45 degree  
Ruder 45 degree**

**Set the CG at 4 inch from leading edge of main wing.**

**Thank you for choosing RichModel Aircraft electric series.  
Enjoy your flying!**