RCCD 2014 CLUB PROJECT

"STICK 2 IT"

FINAL ASSEMBLY AND FINALIZING THE PLANE

The basic construction should be complete and the plane is now in the finalizing stage.

The engine should be remounted in position and the fuel tank assembled and positioned in the fuel tank area of the plane. Cut the fuel lines to length and installed.

The landing gear remounted.

The tail wheel should be installed per the manufacture's direction.

All the control horns installed on all the flying control surfaces per the manufacture's direction.

All the servos installed in place.(most are surface mounted)

The throttle servo installed within the fuselage and the push rod installed and adjusted.

All the control or push rods cut to length and installed as needed.

Install the receiver in the fuselage and connect the servo wires to it.

Install the receiver batteries as far back and against the former # 4 in the fuselage wing saddle area.

Cut two 3/4" diameter holes into the bottom sheeting of the main wing in line with the servo wire paper guide tubes on each side of the center wing rib and within the inside of the side walls of the fuselage. Tape one end of a length of string (approx 36 ") to the outside of the wing near the open bay of the servo and place the other end through the open bay of the wing servo and into the guide tube. Block off the opposite side of the wing servo bay opening and the 3/4" diameter hole in the sheeting with tape. Using a vacuum cleaner, suck the loose end of the string through the tube and out through the 3/4" hole. Repeat the process on the other wing half. Use these two strings to pull the servo wire extensions through the holes and tubes.

Basically, install all the components including the ailerons (dry hinges) for preliminary operation testing and balancing.

When satisfied with the preliminary testing, strip off all the components for the final sanding of the plane before covering.

The final covering, color and trim scheme is the builders choice.

After covering, reinstall all the components and glue in the aileron CA hinges.

Make sure the servo are functioning in the correct direction….. reverse them as needed.

All the servos' end points should be both mechanically and electronically adjusted.

Make all the adjustments to the control surfaces mechanically by centering the servos and then adjust the push rod so the control surfaces are also centered.

Use the laser cut aileron template by holding the long end of the template on the bottom rear flat surface of the main wing and then adjust the aileron to the short angled end. This will set the aileron to the center position. Make sure the ailerons are moving in the correct direction. (Right roll = right aileron moving up and the left aileron moving down) (left roll= left aileron moving up and right aileron moving down)

Adjust the throttle servo to the center of its travel, then adjust the push rod so the throttle barrel on the engine is half way opened. Fine tune the push rod mechanically then electronically.

Lastly, balance the CG of the plane to 28% of the wing cord length (with the tank empty).

Congratulation, your

STICK 2 IT

is now complete.

Now comes the real joy of this project. "Flying the aircraft that you built". You can now experience the thrill of flying an aircraft that was truly built with your two hands and not just opening a box and assembling a pre-made airplane built by someone else.

Remember to build and fly safely
&
most of all, have fun ! ! !

Compliments of:
"The Radio Control Club of Detroit"

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August 2014