

H-KING CESSNA TTX



INSTRUCTION MANUAL

INTRODUCTION.

The H-King Cessna TTX is an excellent, scale rendition of the original plane made by Cessna. It is made of tough EPO foam and is beautifully crafted with panel lines and scale cockpit and other details. Plenty of power with the scale 3-blade propeller.

The Cessna TTX is a single-engine, low wing, general aviation plane with a fixed tricycle undercarriage and was produced between 2004-2018 by Cessna Aircraft. It was originally called the Cessna 400. It was designed to carry a pilot and three passengers.

At 1100mm wingspan the TTX is small enough to transport fully assembled but if you need to take the wings off it is extremely easy with the new wiring quick-connectors. Take-offs and landings are a breeze thanks to the scale slotted flaps and the super bright navigation lights will allow everyone to easily spot this streamlined plane. With a thrust ratio of 1:1.3 there is no trouble doing some easy rolls and loops and other maneuvers. The large hatch area makes installing a battery so easy.

This is a beautiful, scale plane which will have you the talk of the field.

SAFETY INSTRUCTIONS

- 1. Please read this manual carefully and follow the instructions before you use this product.*
- 2. This airplane is not a toy, due to its advanced flying qualities it is only suitable for pilots with intermediate or higher experience. If you are a novice then please only operate with the assistance of an experienced pilot.*
- 3. Not recommended for children under 14 years old.*
- 4. Please set up this plane according to the instructions and make sure you keep your hands and other parts of your body out of the way of the rotating propellers at all times. Failure to do so will result in damage to yourself and to the airplane.*
- 5. Do not fly in thunderstorms, strong winds or wet weather.*
- 6. Never fly R/C planes where there are overhead power lines, automobiles, airports, railway lines or near a highway.*
- 7. Never fly R/C planes where there are crowds of people or over organised games. This airplane requires a very flat landing and take-off area or lake that is clear of trees and other obstacles. Remember safety is the responsibility of the pilot.*
- 8. Do not attempt to catch the plane when you are flying it.*
- 9. The operator will bear the full responsibility of flying and the proper operation and usage of this model. We at Hobbyking will not be responsible for any liability or loss due to improper use of this model.*

Specifications:

Wingspan: 1100mm

Length: 700mm

Empty Weight: 675 grams

Motor: 3520 1200KV brushless outrunner (included)

ESC: 30amp brushless with BEC (included)

Propeller: 8 x 4.5 3 blade (2 included)

Servo: 6 x 9g (included)

Recommended Battery (not supplied): 3S (11.1V
1500-1800mah 15-20C lipoly or similar

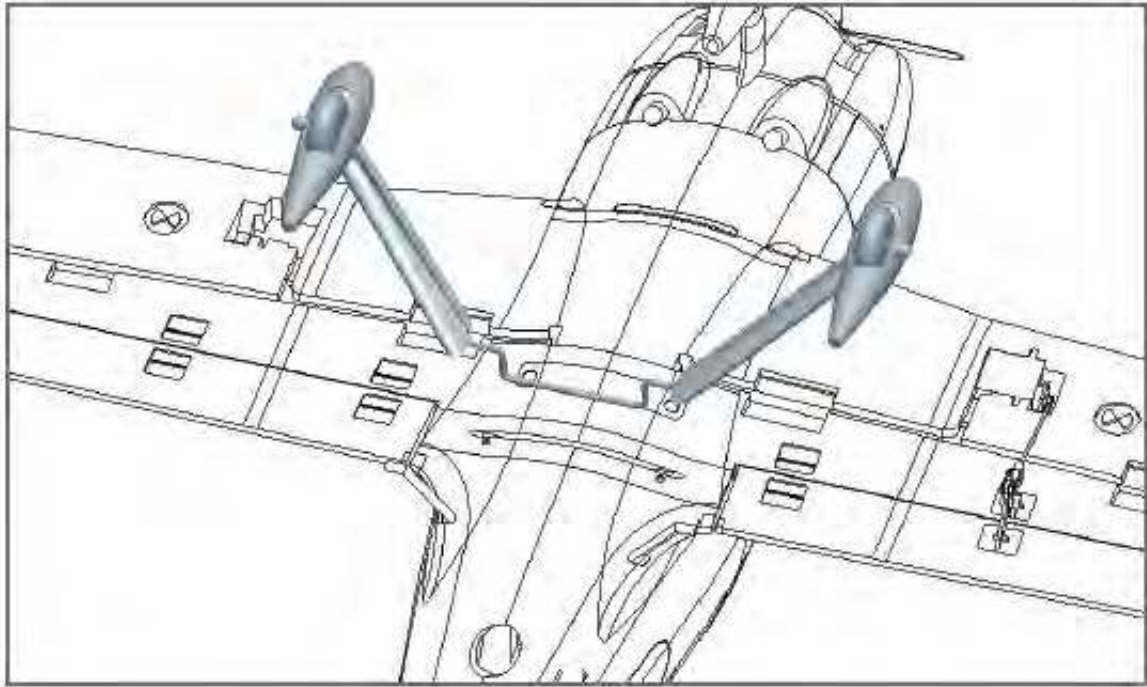
Required: 2.4Ghz 6ch or more transmitter and receiver .

CESSNA TTX Features:

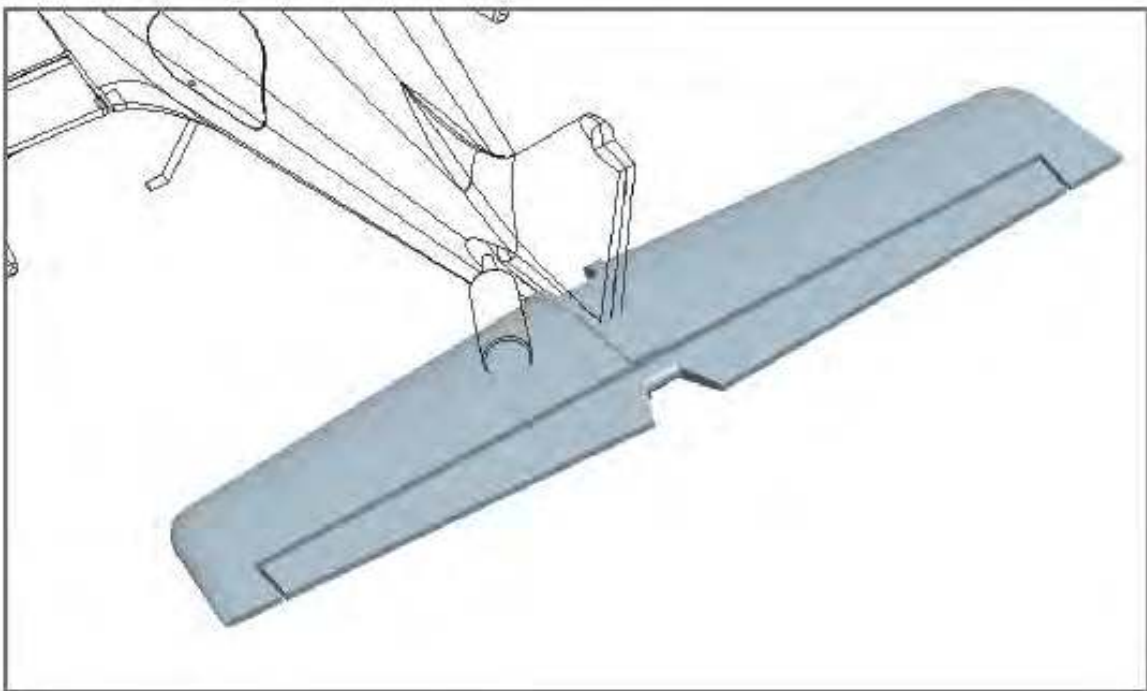
- *Lightweight yet strong EPO material*
- *Scale details like antennas, steps, cockpit, panel lines and more*
- *Big powerful scale slotted flaps*
- *With super bright navigational lights*
- *Big battery access hatch for easy battery installation*
- *A set of special designed servos and LED wiring quick-connectors are pre-installed for easy wing installation*
- *An efficient 3-blade scale propeller and a powerful motor are perfectly matched to provide longer flight times and higher power with more than 1:1 thrust to weight ratio*

KIT CONTENTS

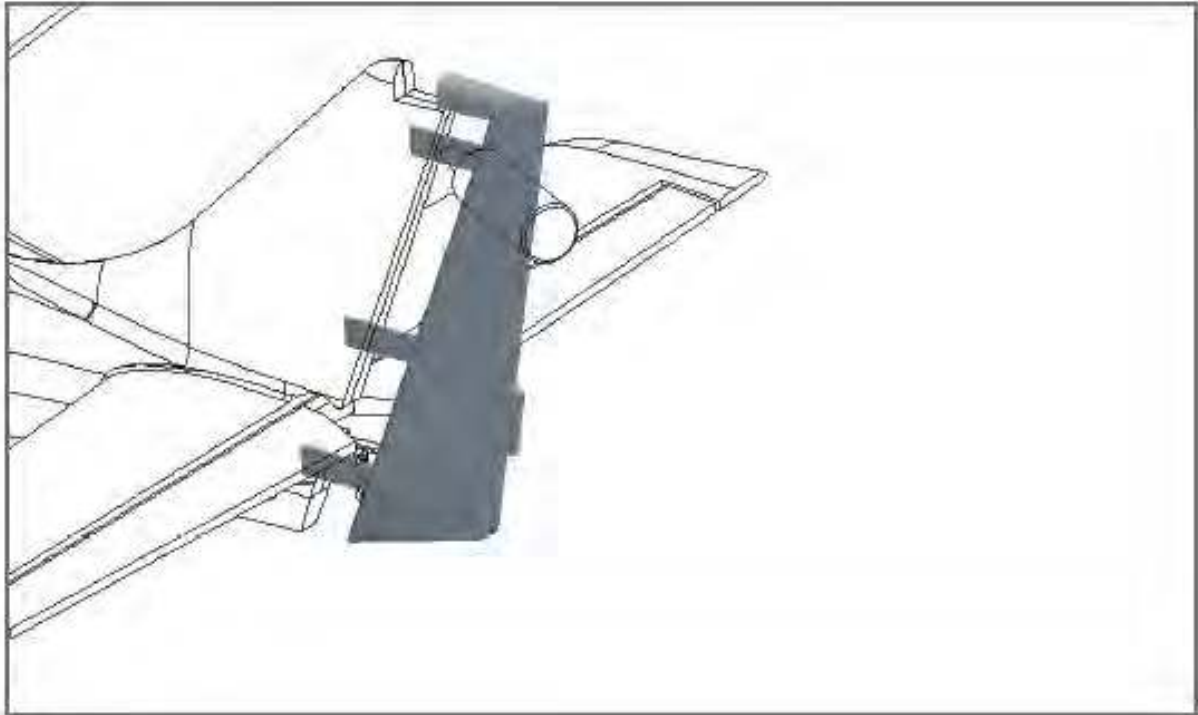




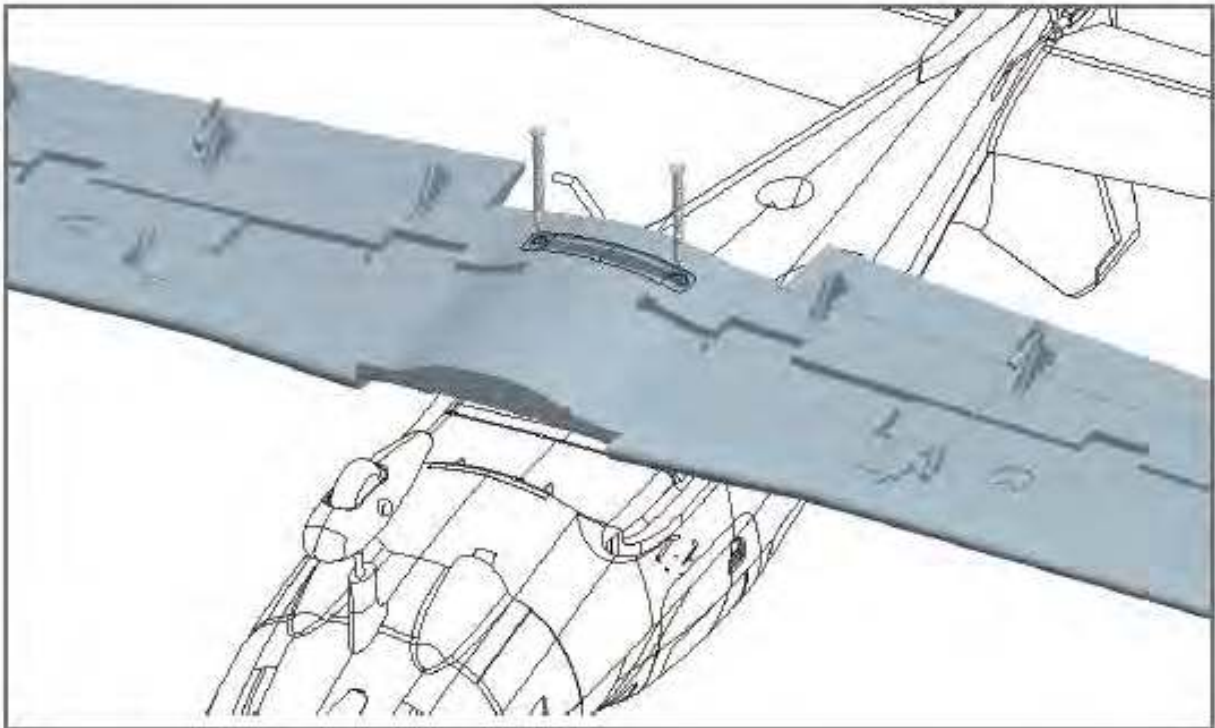
Step 1: Clip the undercarriage into the slot in the fuselage, squeeze the legs together slightly so that it fits into the slot. Once in place remove the pressure and it will hold in place, no retaining screws are required.



Step 2: Apply some medium or slow setting CA glue to the cut out in the rear of the fuselage and glue into place the horizontal stabilizer. Attach the elevator clevis to the control horn when glue has set.



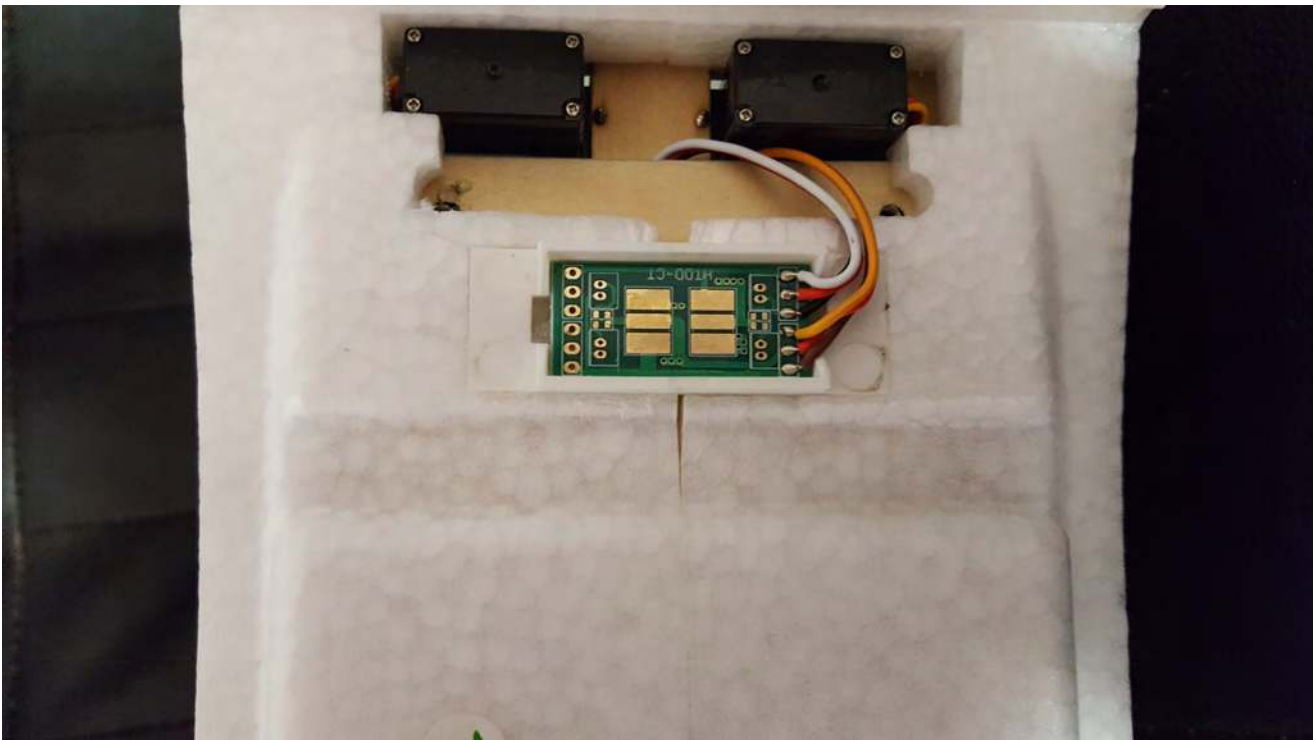
Step 3: Apply medium or slow setting CA glue to the rudder hinges then slide the rudder into the slots in the vertical stabilizer. Once glue has set attach the rudder clevis to the control horn.



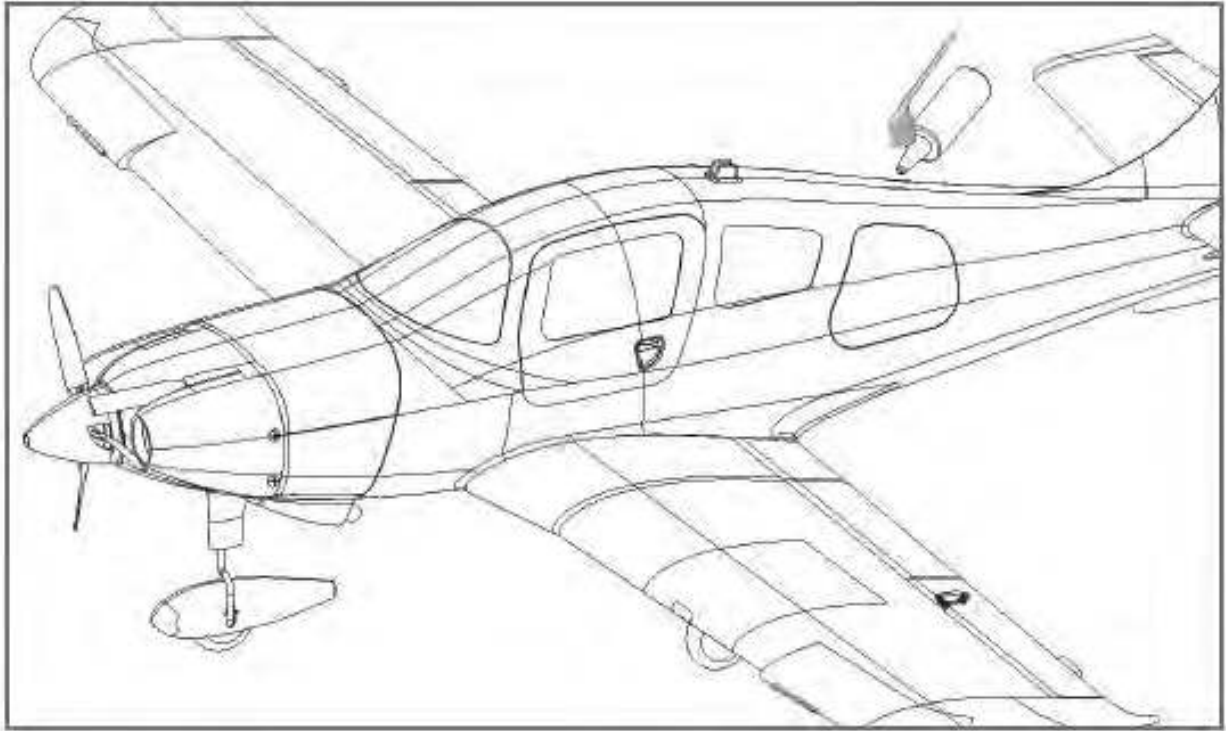
Step 4: Attach the wings using the 2 M3 x 20mm hex head screws provided. Note that the aileron and flap servos connect automatically and so does the wing LED's, see pictures below.



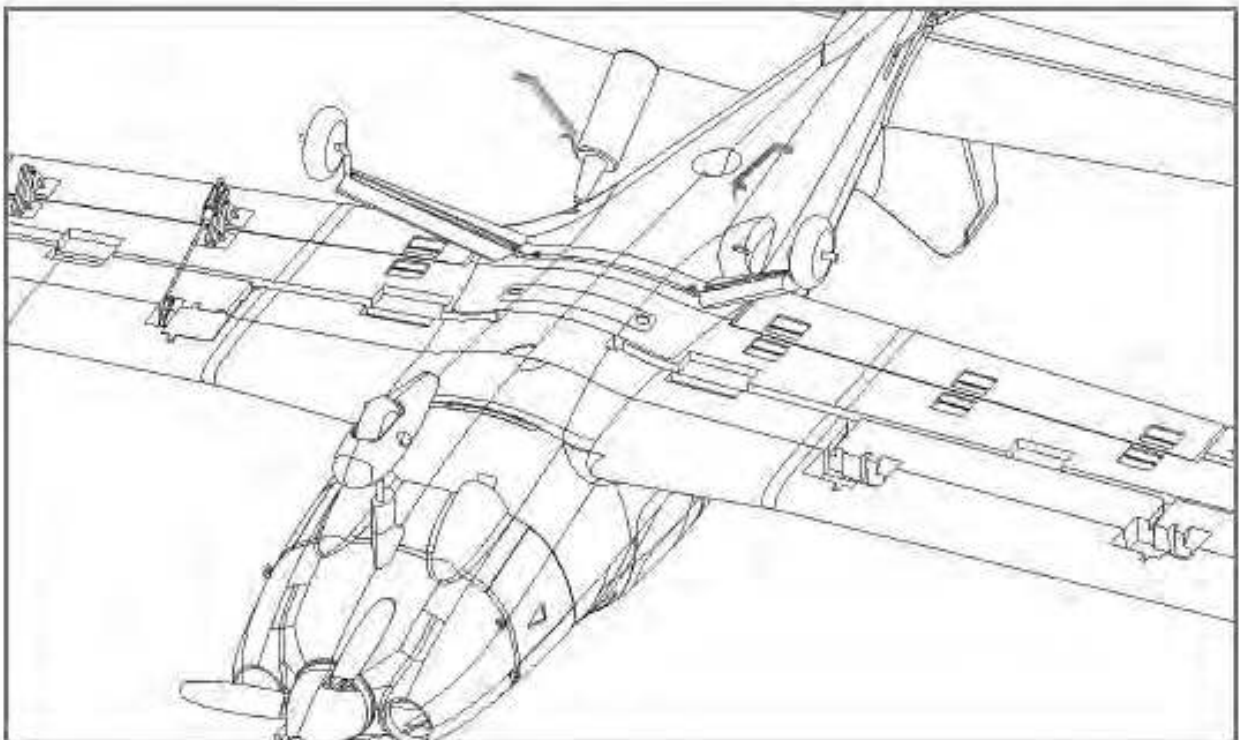
Automatic wing connection of lights, aileron and flap servos.



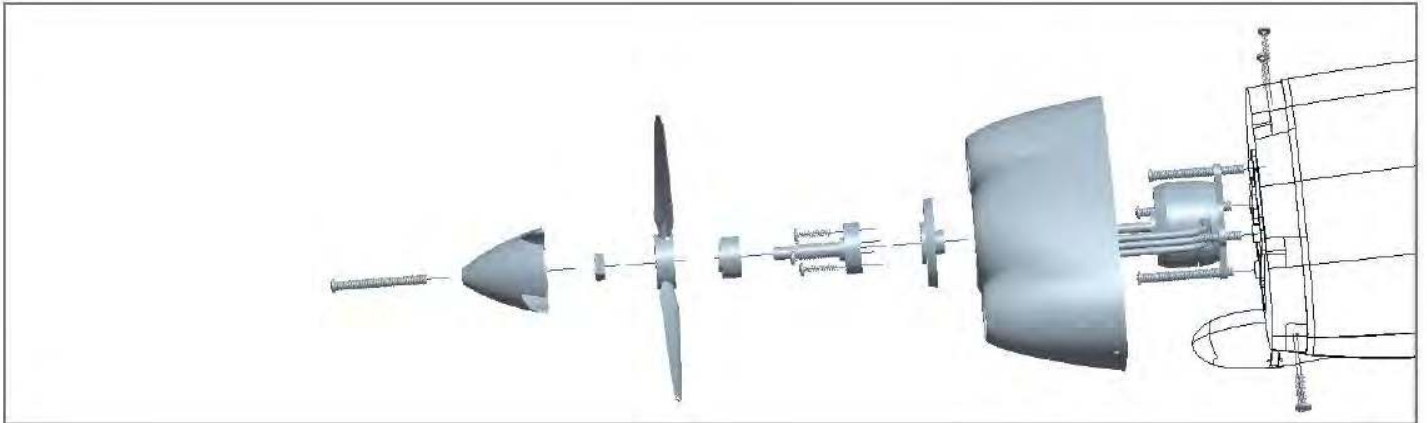
Automatic fuselage connection of lights, aileron and flap servos.



Step 5: Using a medium CA glue in place the scale antenna into the slot in the top of the fuselage.



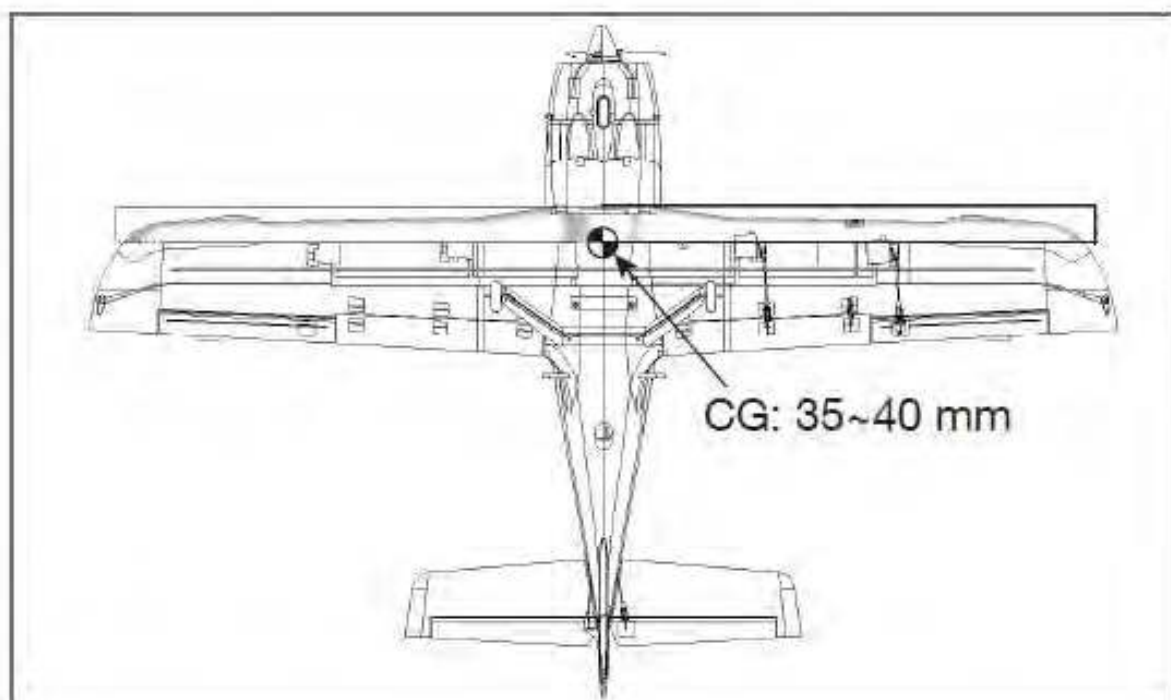
Step 6: Glue into place the 2 scale footrests either side of the fuselage just behind the wing using a medium CA glue.



Step 7: Attach the 3 bladed propeller and spinner as shown. Remove the nut and washer from the shaft, fit onto the prop shaft first the spinner backplate and then the propeller. Refit the nut and washer and tighten. Next fit the spinner cone over the propeller and hold in place with the M3 x 10mm screw provided. This finishes the construction so all you need to do now is fit your receiver and battery.

Center of Gravity.

The C of G position is between 35mm and 40mm from the wing leading edge, see picture below. For first flights we recommend you start near the forward position then as you get used to the handling of the model you can move it towards the rear position. On or near the forward position the model will be very smooth and stable, as you move the C of G back it will become more aerobatic and slightly less stable in pitch. Move the battery forwards or rearwards to achieve your preferred C of G.



Suggested Control Throws.

Ailerons: 9mm each way (measured at the tip).

Elevator: 6mm each way (measured at the tip)

Rudder: 10-12mm each way.

Flaps: 1st stage 8mm, 2nd stage 22-24mm (measured at the root).

Flying.

We shall not delve too much into flying the Cessna TTX as it is not a model designed for beginners but for the model pilot who has flown low wing type aircraft before.

Before flying first thing is to double check all the controls are moving in the correct direction and the control throws have been set to approximately the suggested movement. Re-check the C of G position and then do a range check of the radio. Please ensure that you have a fully charged battery installed.

For initial flights it is best to leave the flaps alone, once you have flown the model a few times you can then experiment with stage 1 for take-off and stage 2 for landings. Line the model up into wind on your runway with a touch of up elevator and smoothly open the throttle keeping it straight with the steerable nosewheel. The Cessna has an abundance of power so will lift off very readily and climb away rapidly gaining height. Once at a safe height explore the delightful handling characteristics of the Cessna TTX. It is very smooth and aerobats very nicely, a very pleasing aeroplane to fly that will put a smile on your face.

Landings really are a non event, the plane virtually lands itself. Fly a nice circuit at reduced power and when on finals take most of the power off and glide onto your landing area controlling the airspeed with the elevator. At about shoulder height or a bit less start to very gently raise the nose with a small amount of elevator until you are flying level with the ground at about half a wingspan. Keep very gently pulling back the elevator until the rear wheels kiss the ground and you have landed.

The flaps are quite powerful, best to get used to them up high to start with to watch the attitude change and to get used to the handling, do not select the landing flap at high speeds, slow the model down before selecting. Technique for landing with flaps is much the same as flapless but you will need to have a bit more power on to overcome the drag of the flaps. The round out, float and flare will also be shorter due to the drag so watch out for this to avoid a heavy landing.

We hope you enjoy flying your H-KING Cessna TTX and if you haven't already tried out the others in our range then we recommend you visit our website at www.hobbyking.com and take a look at our ever increasing range of quality model aircraft and accessories.

Have fun.

Recommended Batteries.

Turnigy 1300mAh 3S 20C Lipo Pack

SKU: T1300.3S.20



ZIPPY Compact 1300mAh 3S 25C Lipo Pack

SKU: ZC.1300.3S.25



Turnigy 1300mAh 3S 25C Lipo Pack

SKU: T1300.3S.25



Turnigy nano-tech 1300mah 3S 25~50C Lipo Pack

SKU: N1300.3S.25





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