#### Radio control model / Flugmodel

## CESSNA 172

### 1730mm Wingspan



ALL BALSA, PLYWOOD CONSTRUCTION AND ALMOST READY TO FLY

## Instruction manual / Montageanleitung

#### **SPECIFICATIONS**

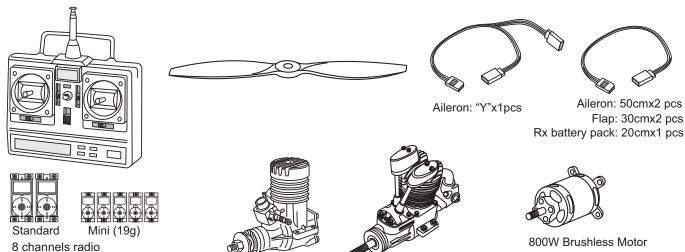
Wingspan: Length (installed motor)	1190mm 800Watt 2-T / .72 4-T ary with
Radio:6 Channel /	6-7 Servos
Function: Ailerons-Elevator-Ruc Flaps.	der-Throttle



**WARNING!** This radio controlled model is NOT a toy. If modified or flown carelessly it could go out of controll and cause serious human injury or property damage. Before flying your airplane, ensure the air field is spacious enough. Always fly it outdoors in safe areas and seek professional advice if you are unexperienced.

**ACHTUNG!** Dieses ferngesteuerte Modell ist KEIN Spielzeug! Es ist für fortgeschrittene Modellflugpiloten bestimmt, die ausreichende Erfahrung im Umgang mit derartigen Modellen besitzen. Bei unsachgemässer Verwendung kann hoher Personen- und/oder Sachschaden entstehen. Fragen Sie in einem Modellbauverein in Ihrer Nähe um professionelle Unterstätzung, wenn Sie Hilfe im Bau und Betrieb benötigen. Der Zusammenbau dieses Modells ist durch die vielen Abbildungen selbsterklärend und ist für fortgeschrittene, erfahrene Modellbauer bestimmt.

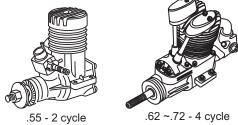
#### REQUIRED FOR OPERATION (Purchase separately)



Elevator: 1 standard servo Rudder: 1 standard servo

Aileron: 2 mini servo Flaps: 2 mini servo Nose gear: 1 mini servo

Throttle: 1 mini servo (for glow engine only)



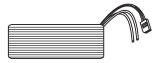




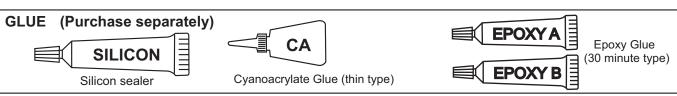
800W Brushless Motor

Aileron: 50cmx2 pcs

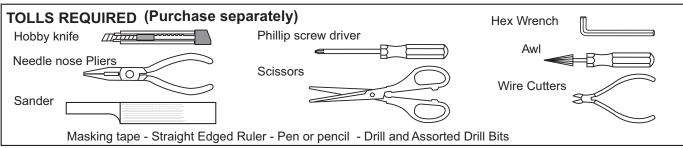
Flap: 30cmx2 pcs



4S 5000mAh LiPo battery



Silicone tube

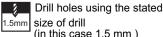


If exposed to direct sunlight and/or heat, wrinkels can appear. Storing the model in a cool place will let the wrinkles disappear. Otherwise, remove wrinkles in covering film with a hair dryer, starting with

Bei Sonneneinstrahlung und/oder Wärme kann die Folie erschlaffen bzw. Falten entstehen. Verwenden Sie ein Warumluftgebläse (Haartrockner) um evtl. Falten aus der Folie Low seting zu bekommen. Die Kanten können Sie mit einem Bügeleisen behandeln. Nicht zuviel Hitze anwenden!

low temperature. You can fix the corners by using a hot iron.

Symbols used throughout this instruction manual, comprise:



(in this case 1.5 mm)



Take particular care here



Hatched-in areas: remove covering film carefully



Check during assembly that these parts move freely, without binding



Use epoxy glue



Apply cyano glue



Assemble left and right sides the same way.



Not included. These parts must be purchased separately



Löcher bohren mit dem angegebenen Bohrer (hier 1,5 mm)



Hier besonders aufpassen



Schraffierte Stellen, Bespannfolie vorsichtig entfernen



Während des Zusammenbaus immer prüfen, ob sich die Teile auch reibungslos bewegen lassen



Epoxy-Klebstoff verwenden



Sekundenkleber auftragen



Linke und rechte Seite wird gleichermaßen zusammengebaut



Nicht enthalten. Teile müssen separat gekauft werden.

Read through the manual before you begin, so you will have an overall idea of what to do. **CONVERSION TABLE** 

1.0mm = 3/64"	3.0mm = $1/8$ "	10mm = 13/32"	25mm = 1"
1.5mm = 1/16"	4.0mm = 5/32"	12mm = 15/32"	30mm = 1-3/16"
2.0mm = 5/64"	5.0mm = 13/64"	15mm = 19/32"	45mm = 1-51/64"
2.5mm = $3/32$ "	6.0mm = 15/64"	20mm = 51/64"	

#### SAFETY NOTES BEFORE ASSEMBLING

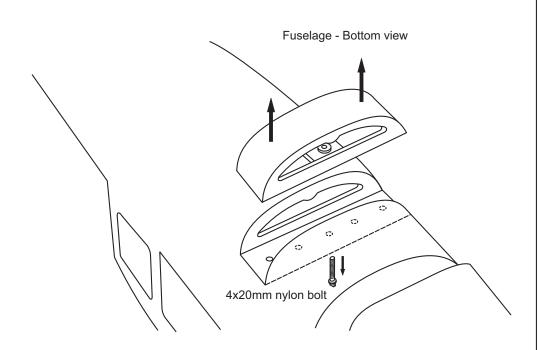
This model is highly pre-fabricated and can be built in a very short time. However, the work which you have to carry out is important and must be done carefully.

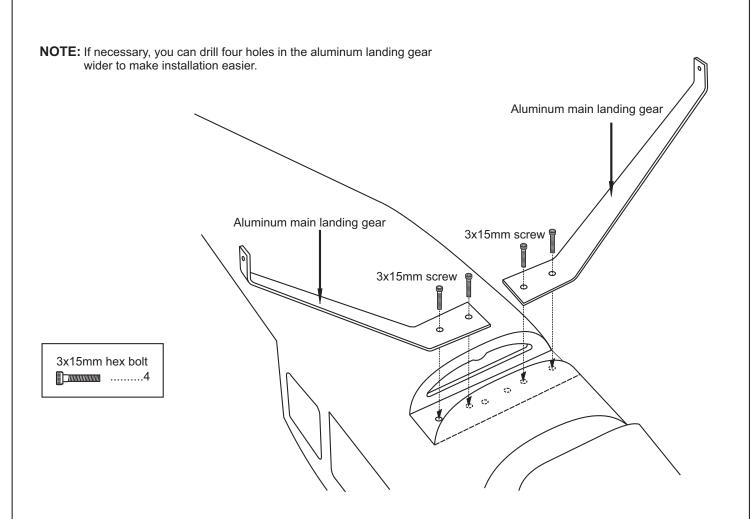
The model will only be strong and fly well if you complete your tasks competently - so please work

slowly, accurately and check every joints, maybe apply more glue to be safe. Read through the manual before you begin, so you will have an overall idea of what to do. IMPORTANT: Please do not clean your model with pure alcohol or strong solvents, only use liquid soap with water or use glass cleaner to clean on surface of your model to keep the colour not fade.

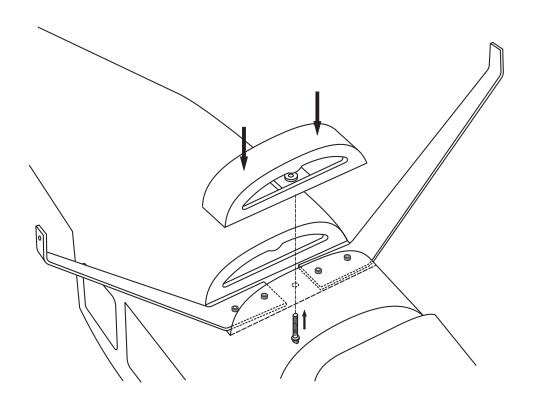
### CESSNA 172 2- Main landing gear

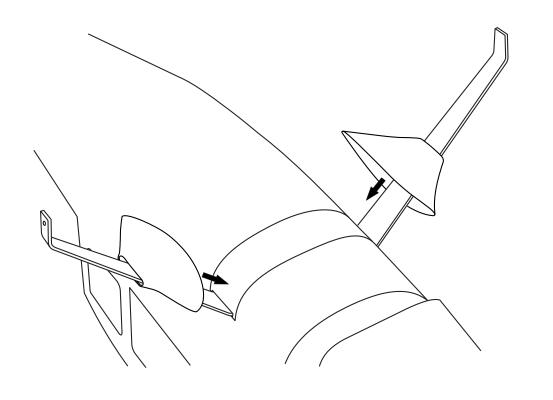
4x20mm nylon bolt

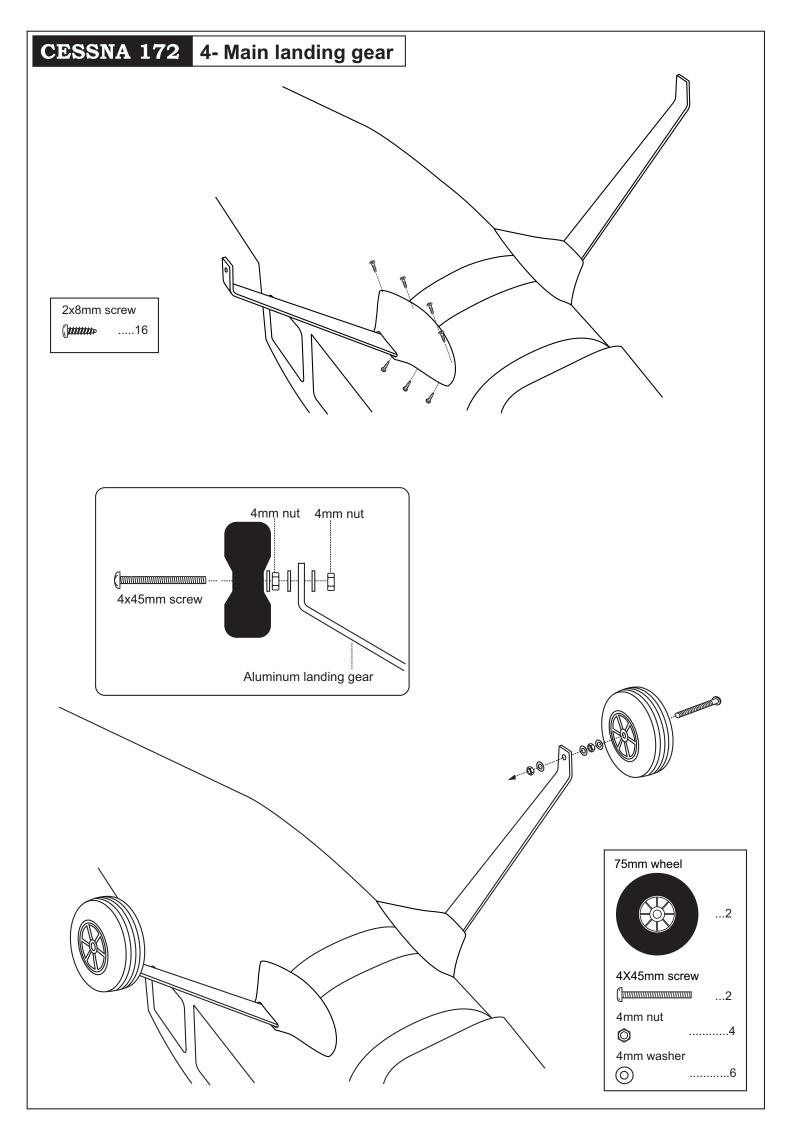


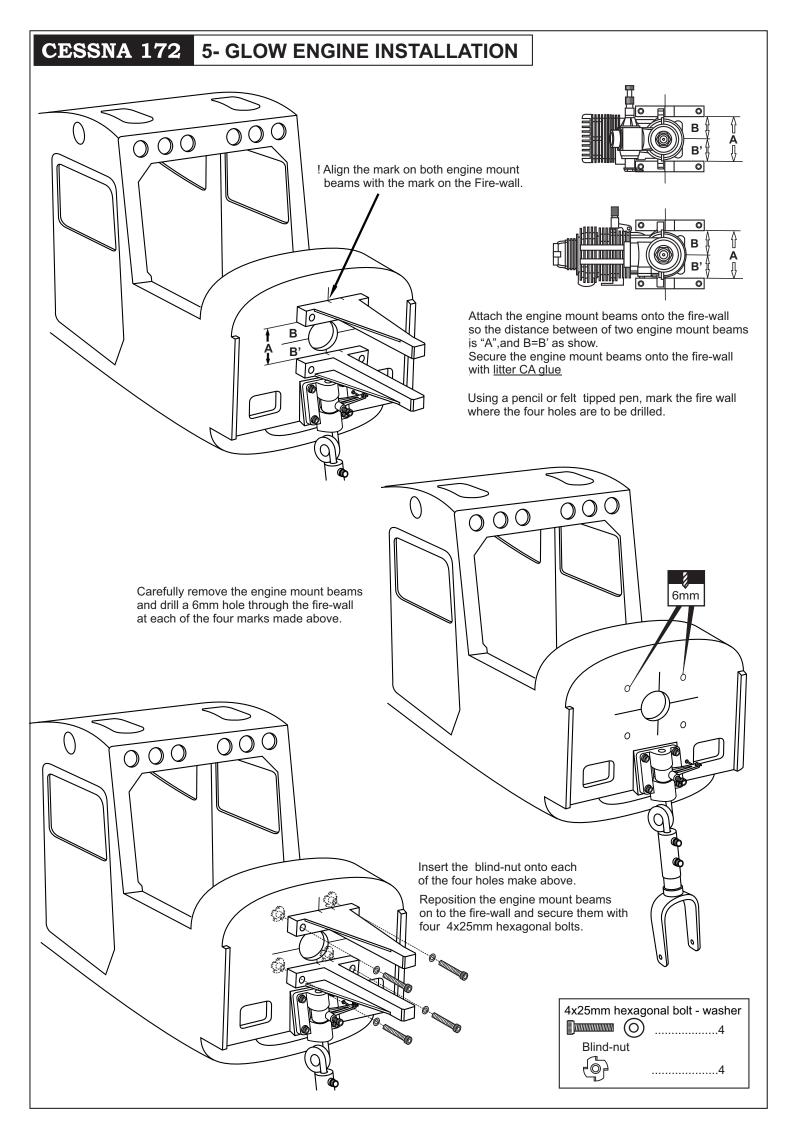


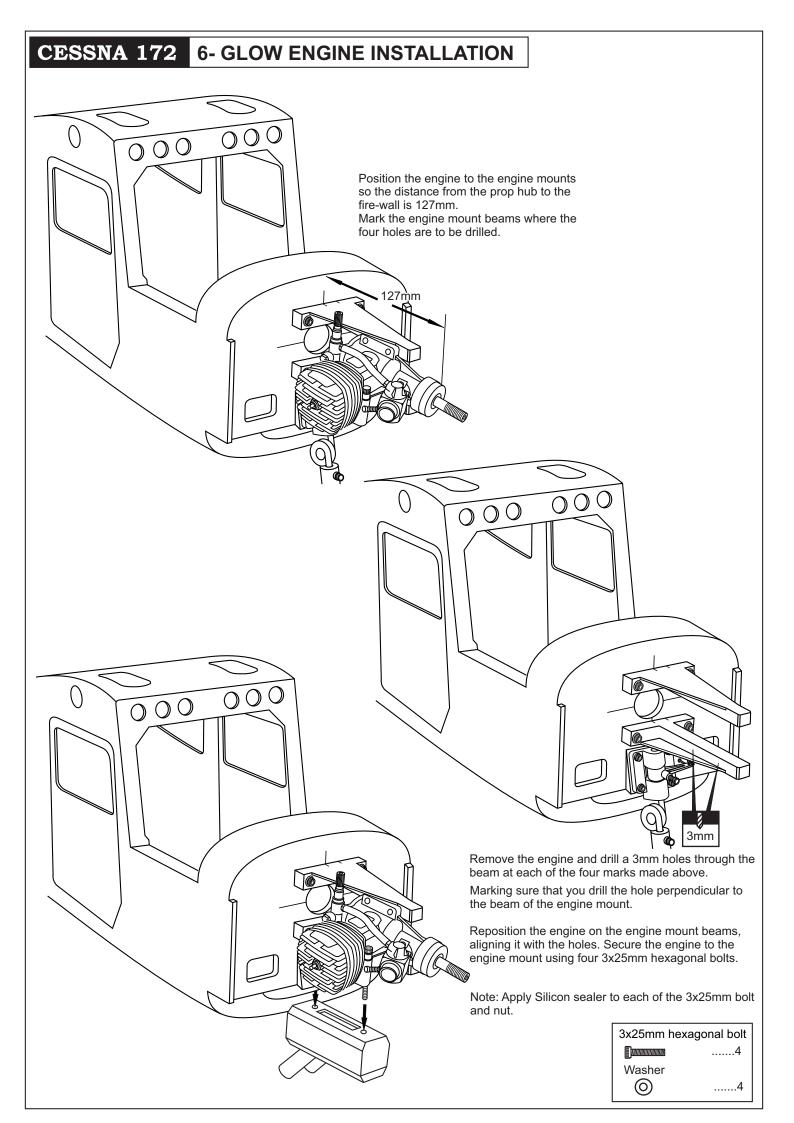
## CESSNA 172 3- Main landing gear



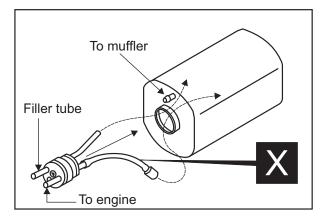


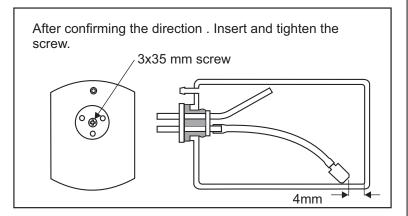


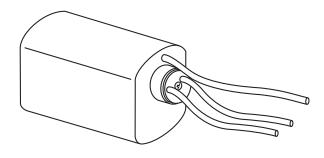


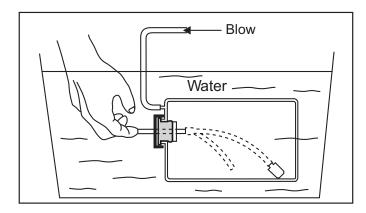


### CESSNA 172 7- FUEL TANK

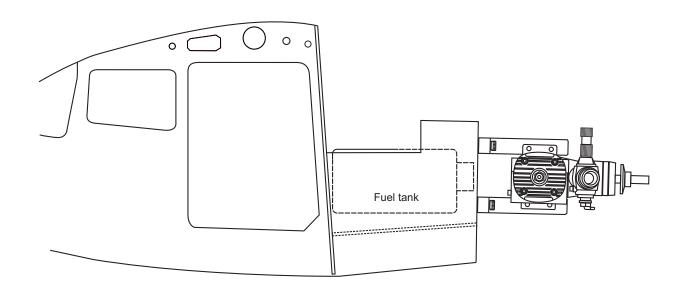


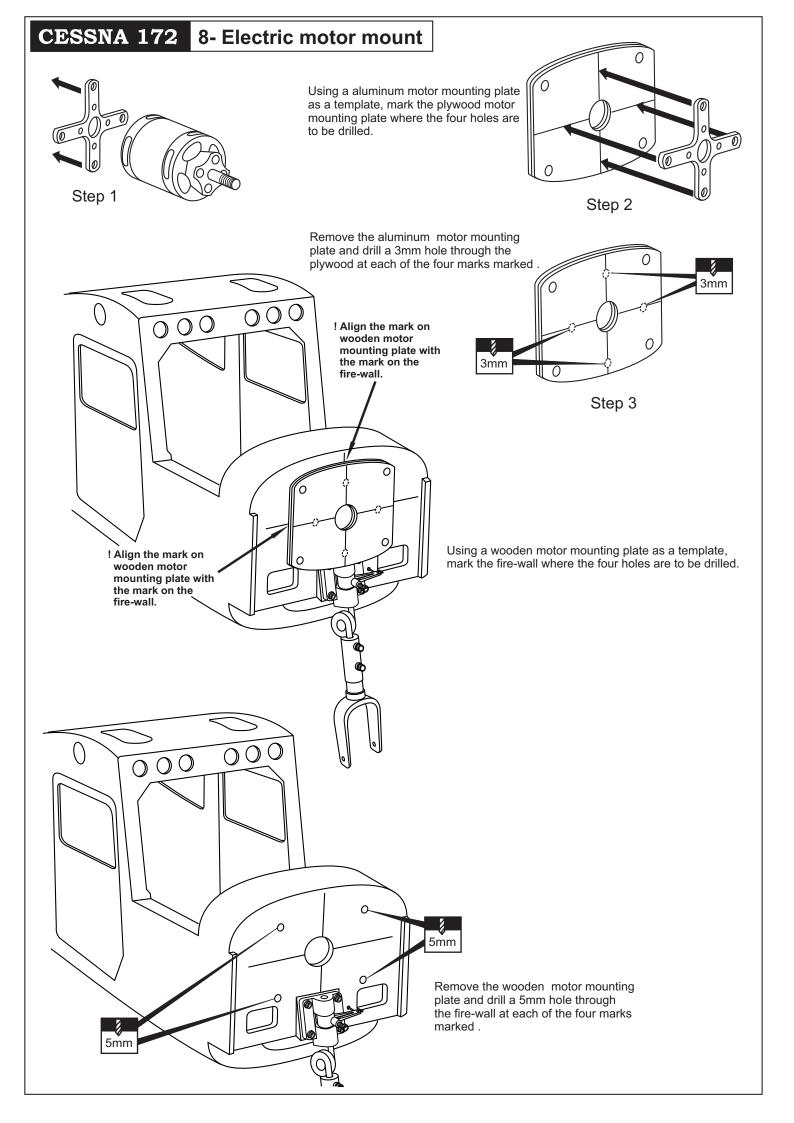


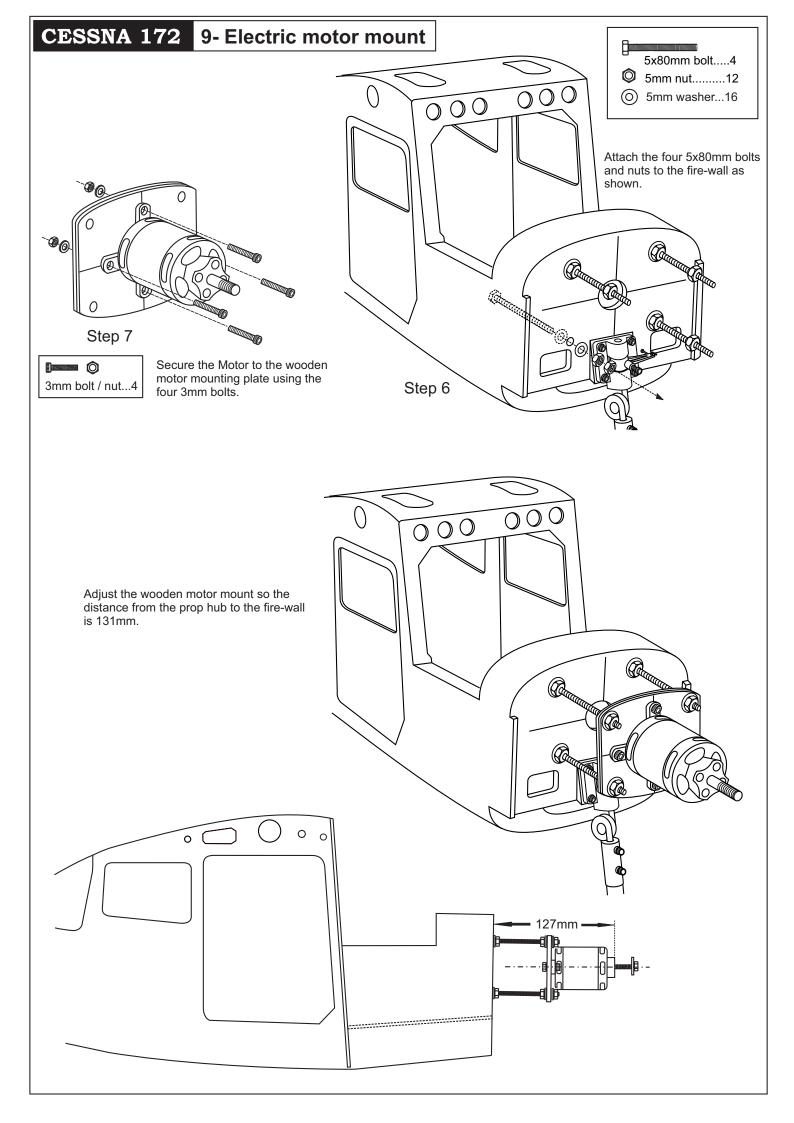


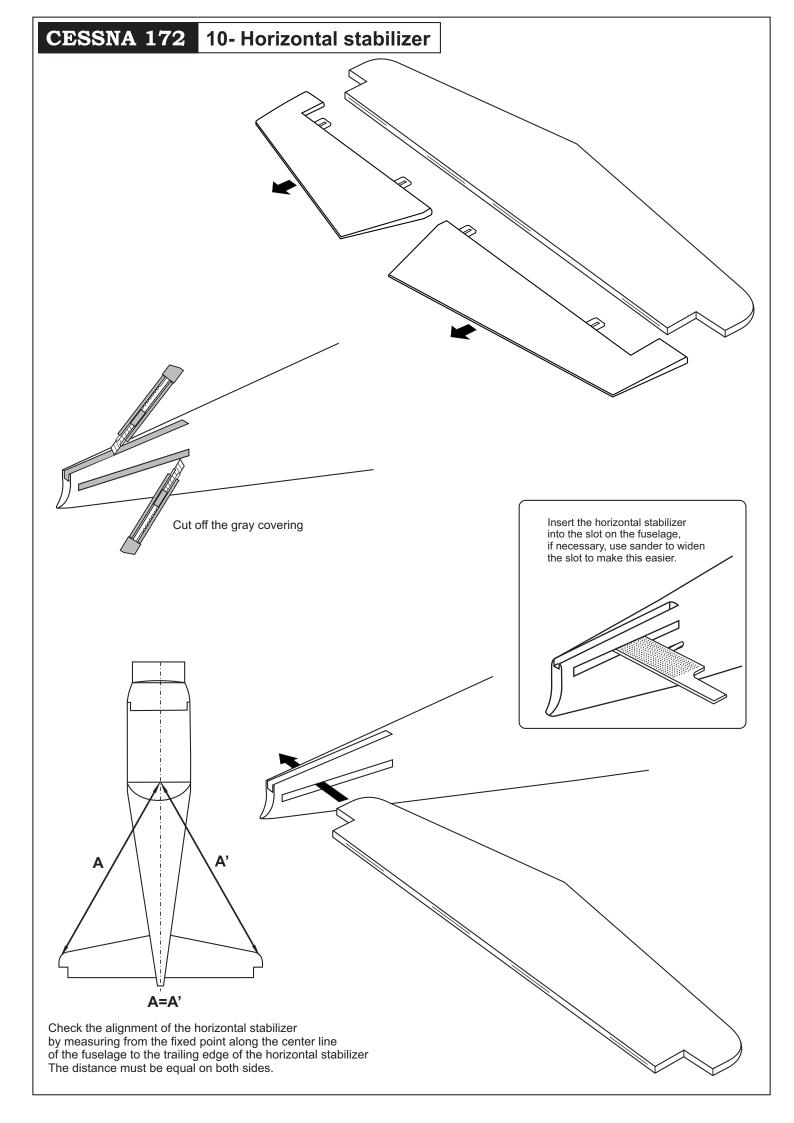


Checking for leaks - block the vents and blow into the feed - if in doubt submersing the tank in a blow of water will show up any problems.

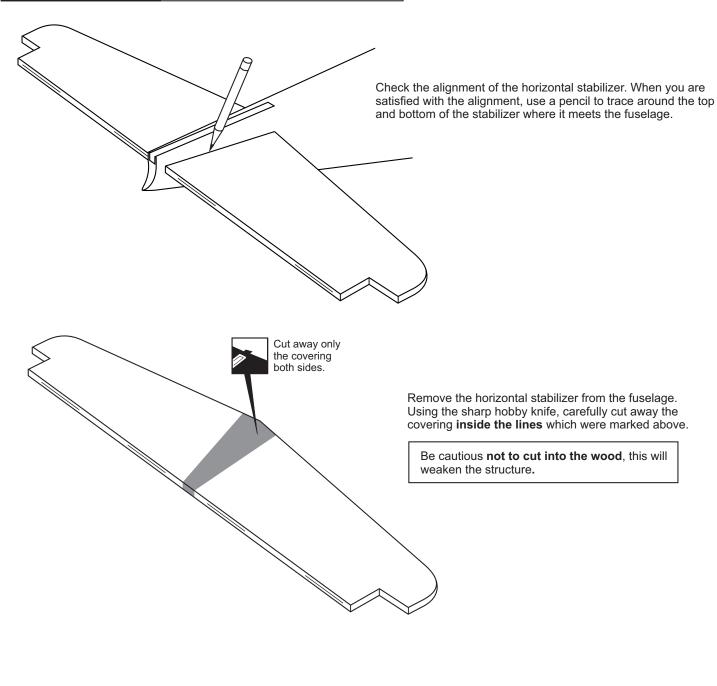


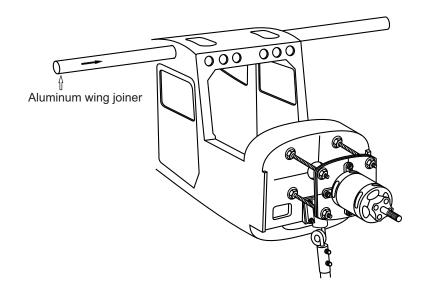


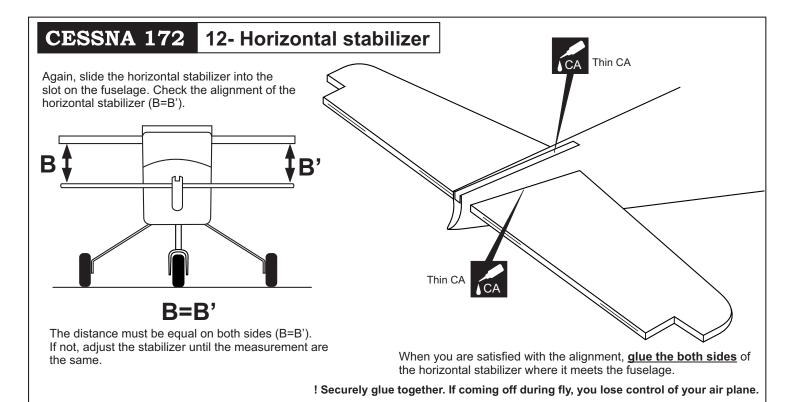




## CESSNA 172 11- Horizontal stabilizer

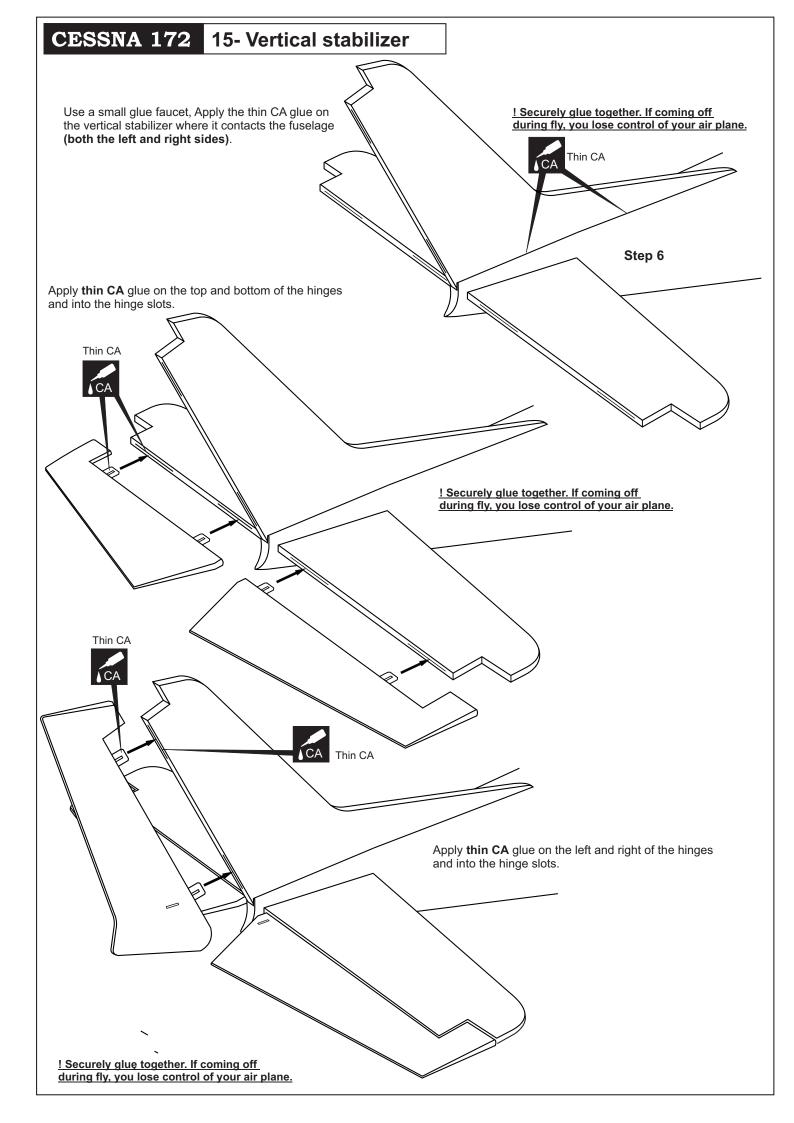


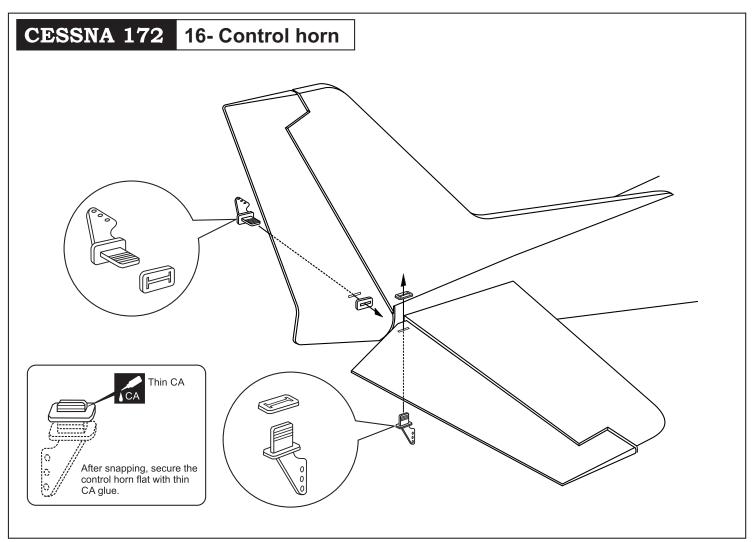


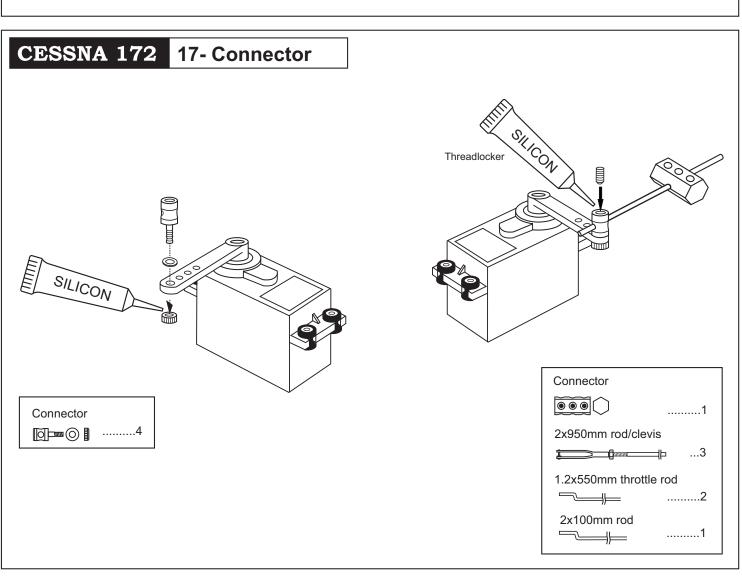


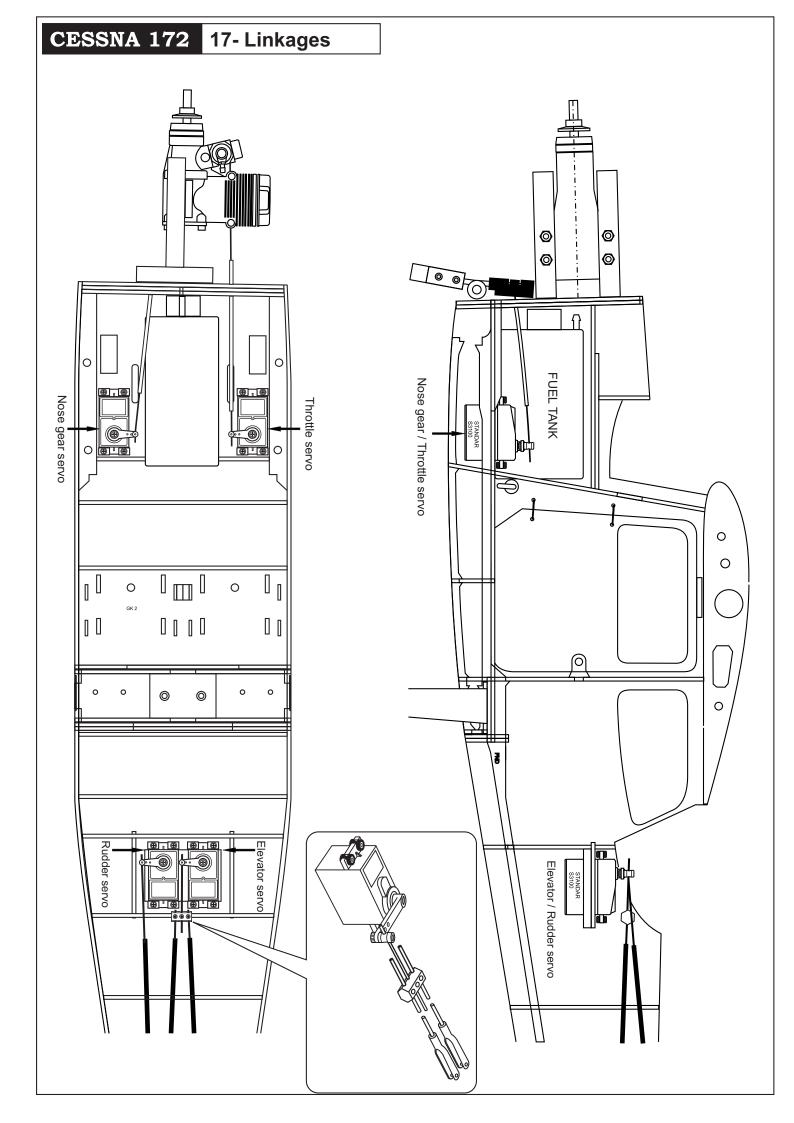
CESSNA 172 13- Vertical stabilizer Step 1 Trial fit the vertical stabilizer in place on the fuselage. Check the alignment of the vertical stabilizer with the fuselage. Step 2

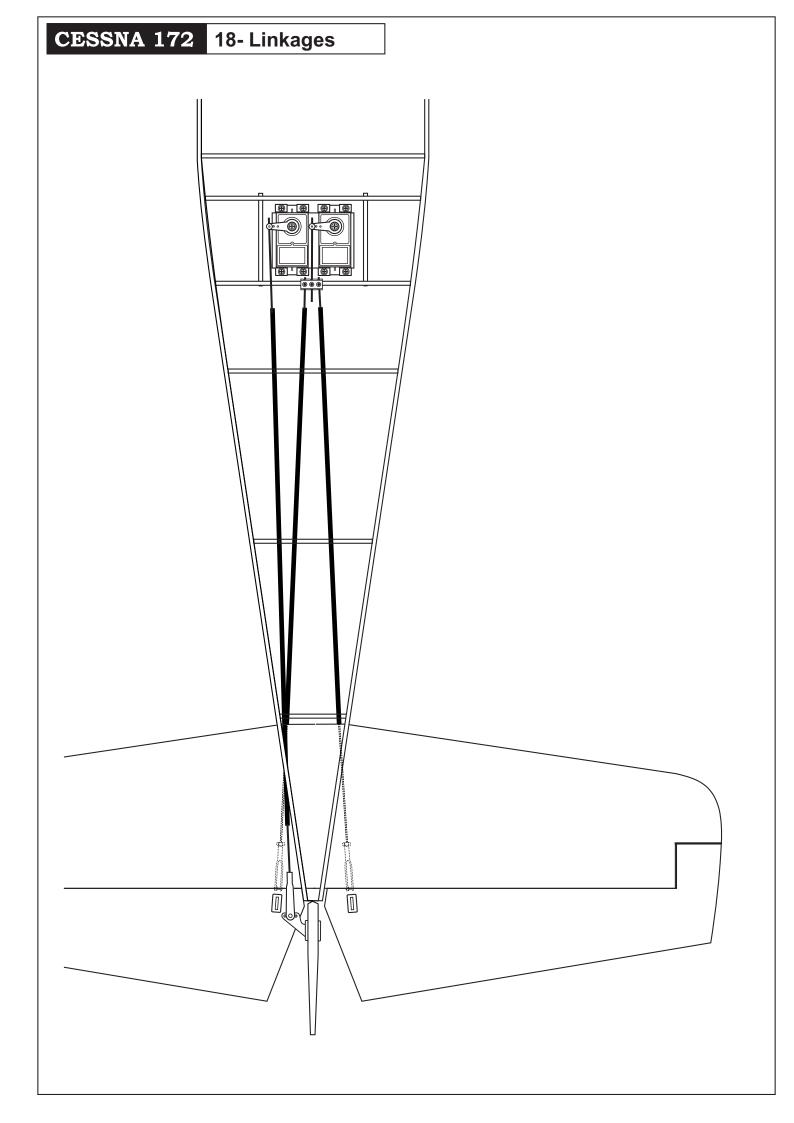
## CESSNA 172 14- Vertical stabilizer Trial fit the vertical stabilizer in place on the fuselage. Check the alignment of the vertical stabilizer with the fuselage. When you are satisfied with the alignment, use a pencil to carefully trace around the left and right of the vertical stabilizer where it meets the fuselage. Step 3 Remove the vertical stabilizer from the fuselage. Using the sharp hobby knife, carefully cut away the covering inside the lines which were marked above. Step 4 Cut away only Be cautious not to cut into the wood, this will the covering weaken the structure. both sides. Again, slide the vertical stabilizer into the slot on the fuselage. Check the alignment of the vertical stabilizer (A=A'). You can also use a 90 degree square ruler as shown in the picture. A=A'

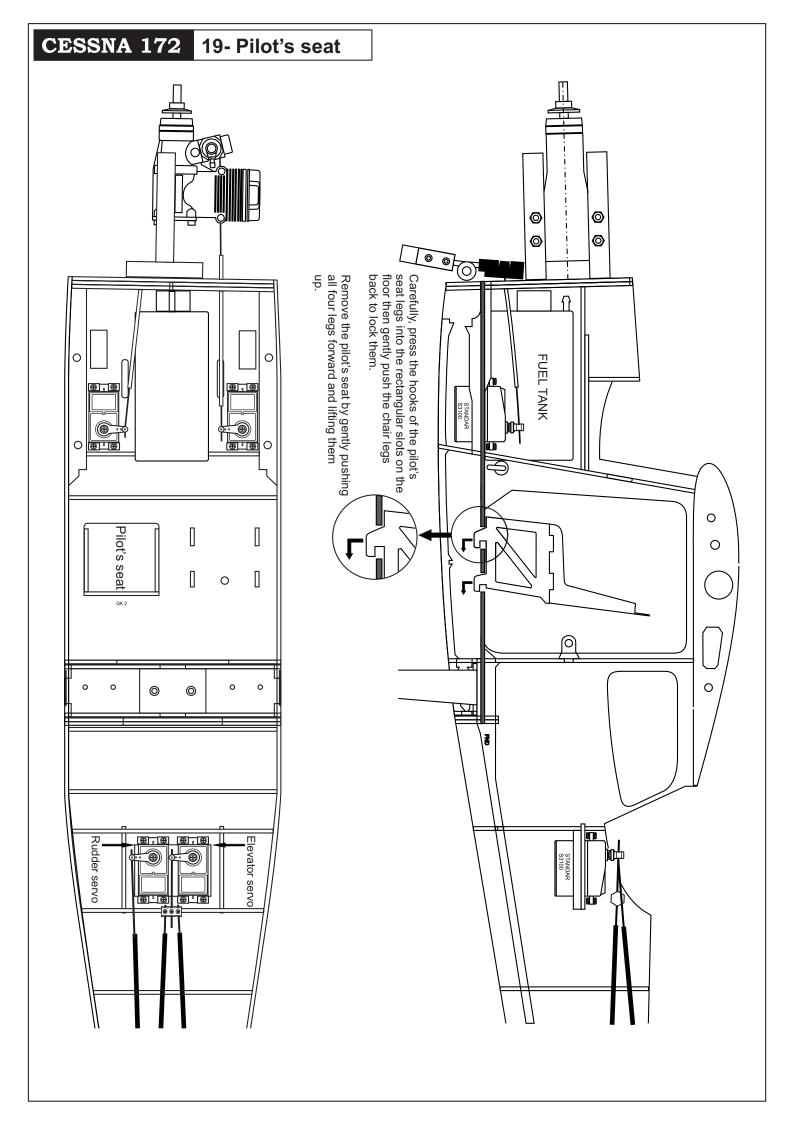






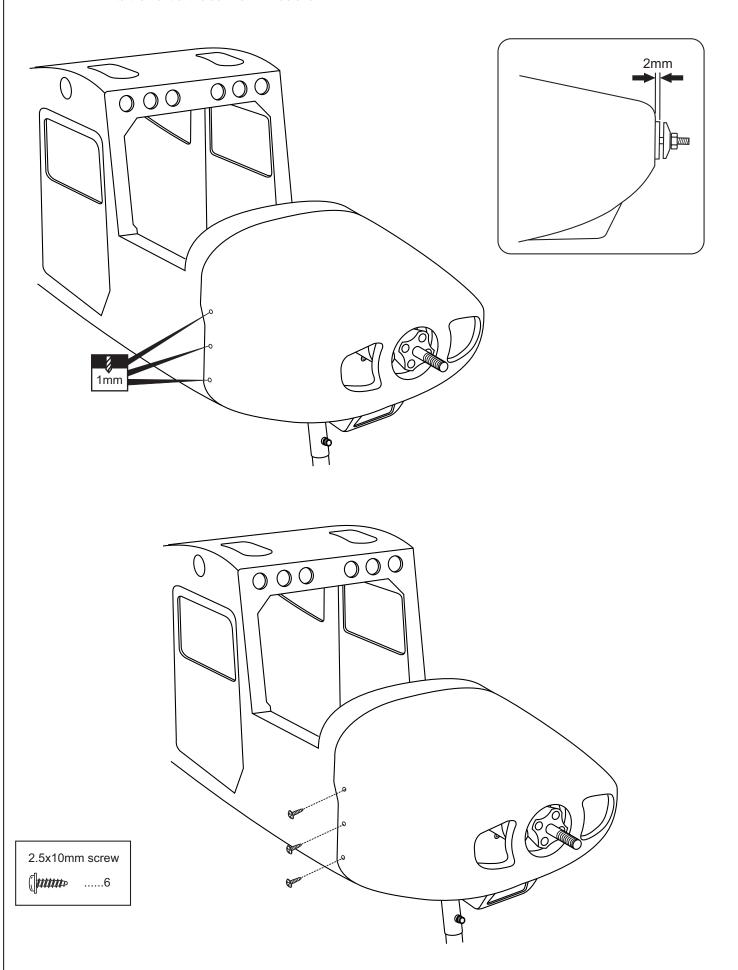




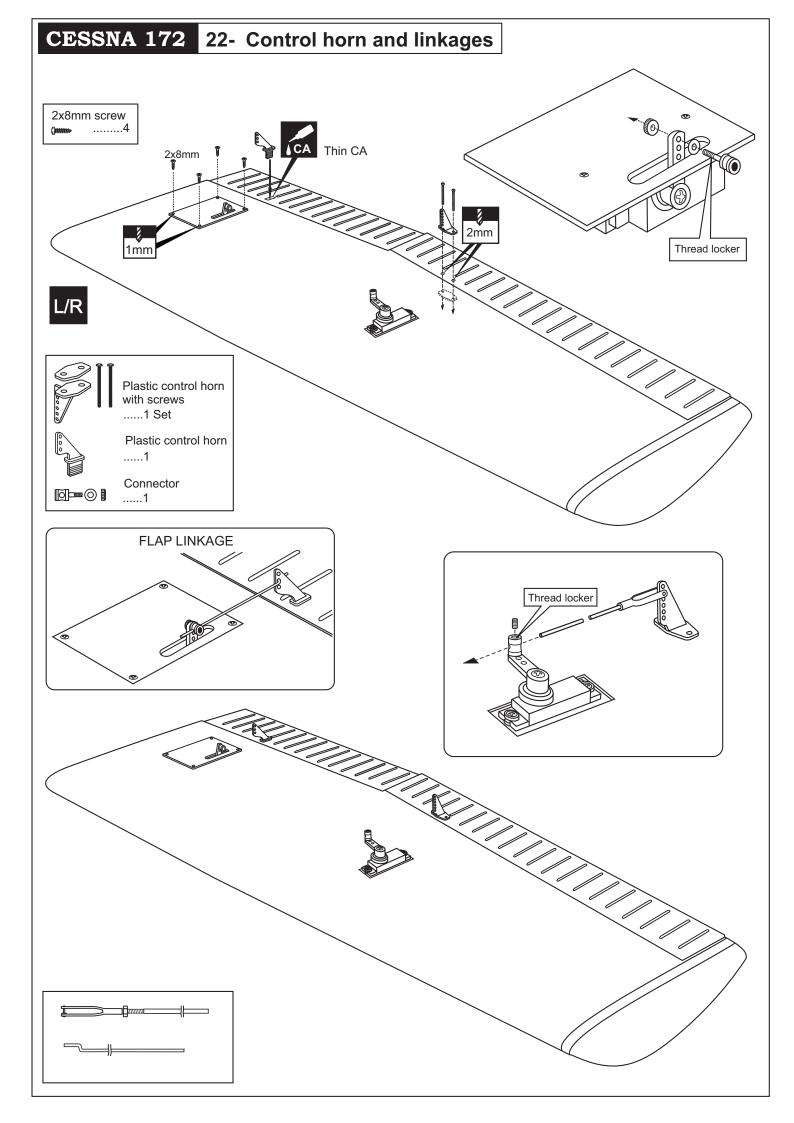




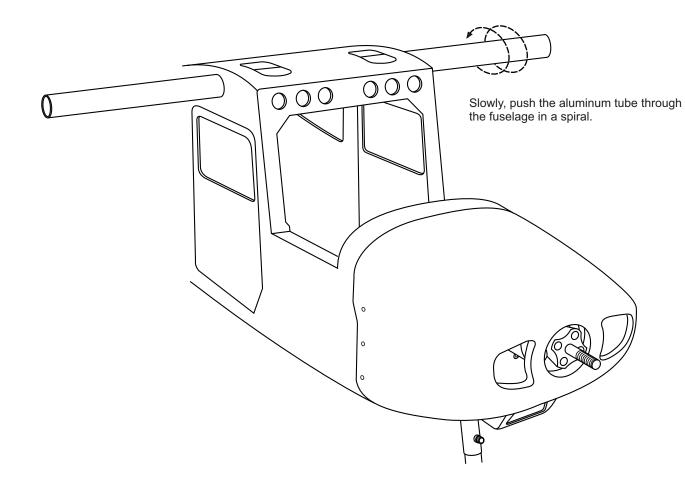
Insert the cowl onto the fuselage so that the distance from the prop hub of engine to the front of the cowl is 2mm as shown.



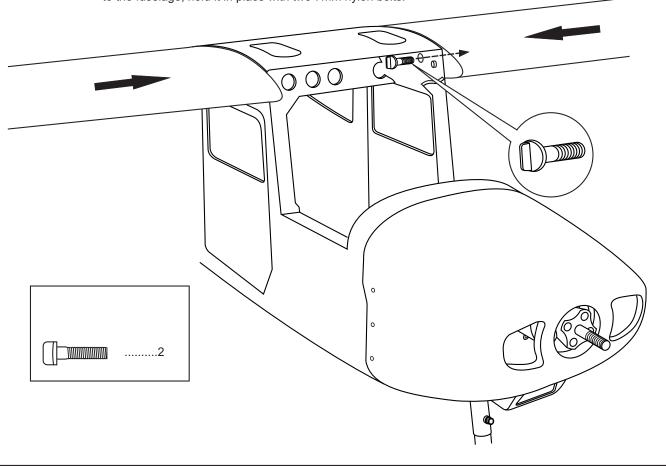
# CESSNA 172 21- Aileron and Flap servo Using the thread (pre-installed at factory) to slide the aileron extension cord into the wing half. Flap servo hatch 50cm Extension cord FLAP SERVO HATCH - BOTTOM VIEW Hard wood servo mount 1.5mm **IMPORTANT:** To be safe, you must attach the four screws as shown in this picture. ! Securely glue together. If coming off during fly, you lose control of your air plane. 2x8mm 1mm 2x8mm 1.5mm 1mm 2x8mm screw FLAP SERVO HATCH - TOP VIEW servo hatch servo mount

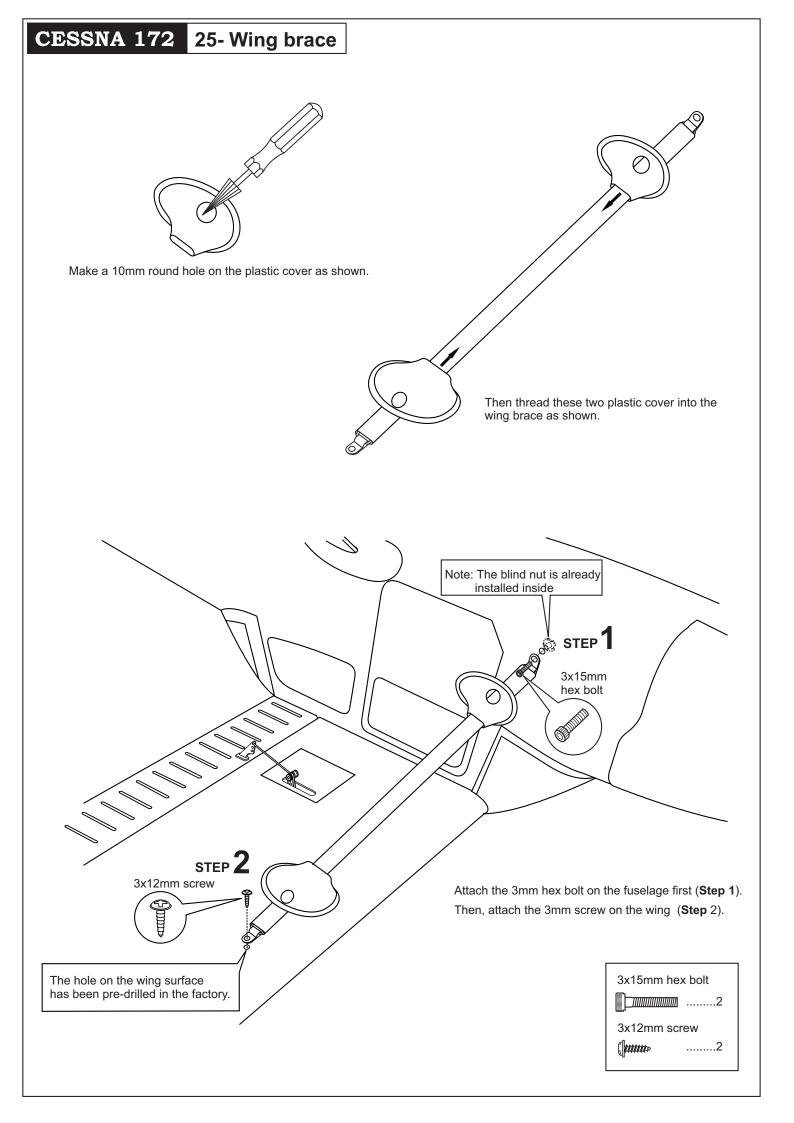


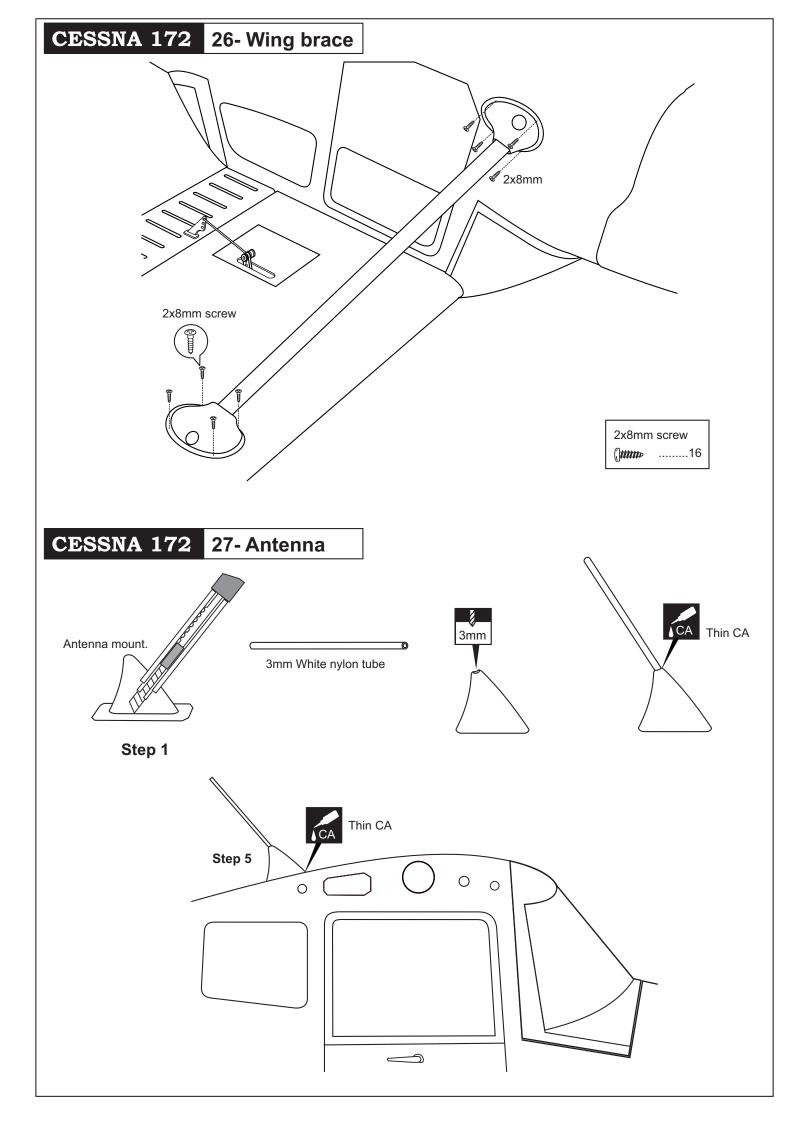
## CESSNA 172 24- Joining the wing



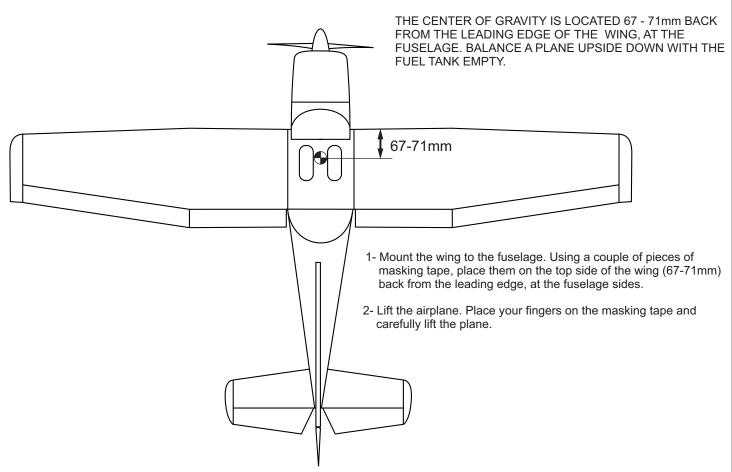
Carefully, push each wing close to the fuselage. Once the wings is close to the fuselage, hold it in place with two 7mm nylon bolts.







#### CESSNA 172 29- Balance



3- If the nose of the plane falls, the plane is heavy nose. To correct this, move the battery pack further back in the fuselage. If the tail of plane falls, the plane is tail heavy. To correct this, move the battery forward or if this is not possible, stick weight onto the firewall.

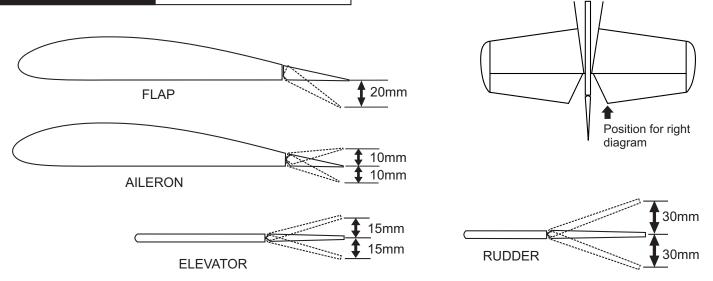
When balanced correctly, the airplane should level or slightly nose down when you lift it up with your fingers.

#### LATERAL BALANCE:

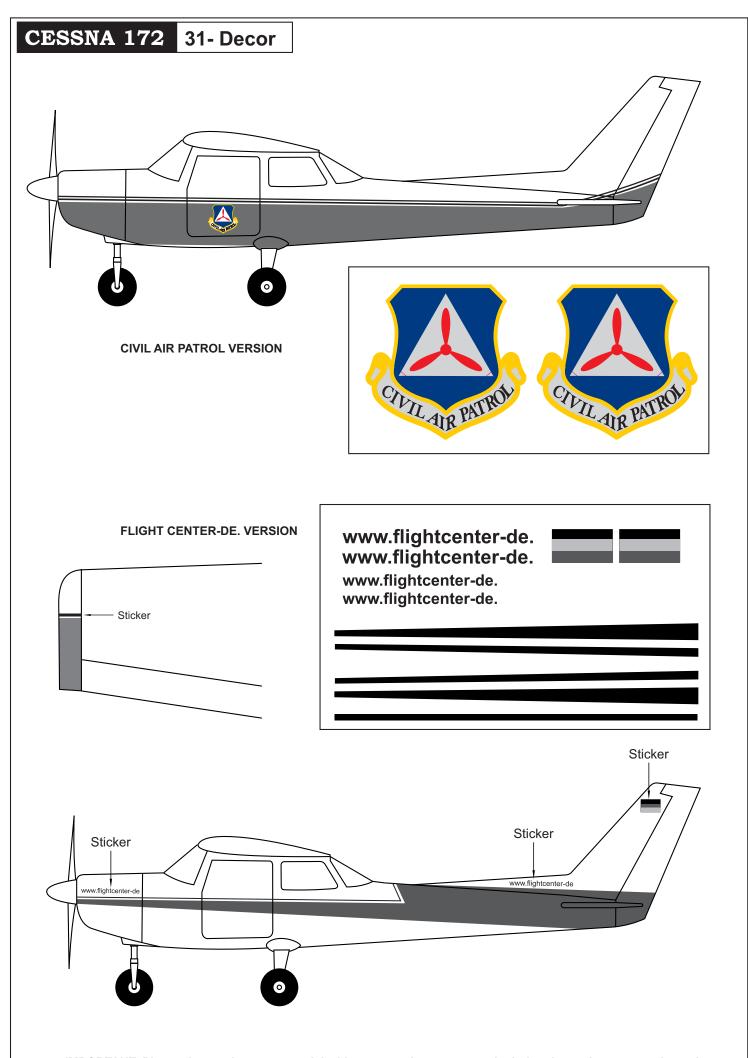
After you have balanced a plane on the CG, you should laterally balance it. Doing this will help the airplane track straighter.

- 1- Turn the airplane upside down. Attach one loop of heavy string to the engine crankshaft and one to the tail wheel wire. With the wing level, carefully lift the airplane by the string. This may require two people to make easier.
- 2- If one side of the wing fall, that side is heavier than the opposite. Add small amounts of lead weight to the bottom side of the lighter wing half's wing tip. Follow this procedure until the wing stays level when you lift the airplane.





IMPORTANT: Flying your model at these throws will provide you with the greatest chance for successful first flights. If, after you have become accustomed to the way the Spitfire flies, you would like to change the throws to suit your taste that is fine. However, too much control throw could make the model difficult to control, so remember, "more is not always better".



IMPORTANT: Please do not clean your model with strong solvent or pure alcohol, only use kerosene to keep the colour of your model not fade.