

RADIO CONTROL MODEL BUILDING INSTRUCTIONS

PILATUS PORTER PC-6

EP/GP Balsa 2150mm ARF



SPECIFICATIONS

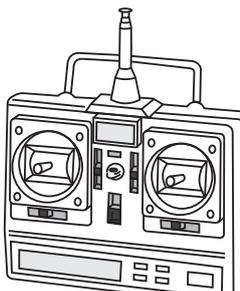
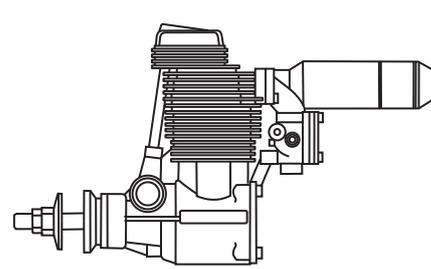
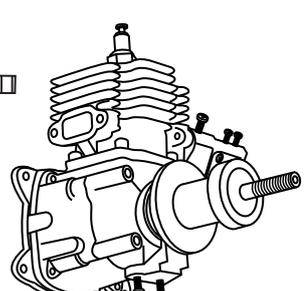
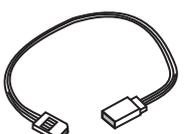
Wingspan:	2150mm
Length:	1600mm
Flying weight:	4.6-4.9Kg
Gas Engine:	20cc 2T
Nitro Engine:	95 2T / 1.20 4T
Motor:	SK3-4240-740Kv
Radio:	6 Channels / 7-8 servos

WARNING! This radio controlled model is NOT a toy. If modified or flown carelessly it could go out of control 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.

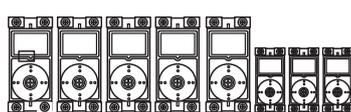
DISCLAIMER:

All product names, logos, brands, trademarks and registered trademarks are property of their respective owners. Use of these names, trademarks and brands does not imply endorsement.

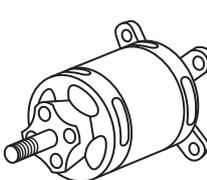
REQUIRED FOR OPERATION (Purchase separately)

Extension for aileron, Flap, Elevator servo.



6 channel radio for airplane with 5 standard servos and 3 mini servos
Flapx2 standard servo - Aileronx2 standard servo
Rudderx1 standard servo - Elevatorx2 mini servo
Motorx1 mini servo



SK3-4240-740Kv Brushless Motor



Nylon tube

GLUE (Purchase separately)

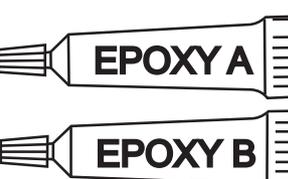


SILICON
Silicon sealer

Cyanoacrylate Glue



CA

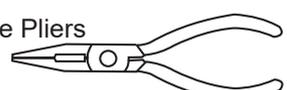


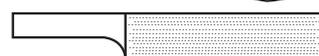
EPOXY A
EPOXY B

Epoxy Glue (5 minute type)
Epoxy Glue (30 minute type)

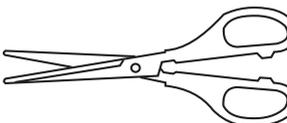
TOLLS REQUIRED (Purchase separately)

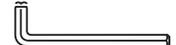
Hobby knife 

Needle nose Pliers 

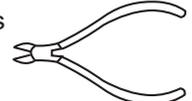
Sander 

Phillip screw driver 

Scissors 

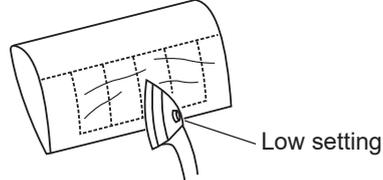
Hex Wrench 

Awl 

Wire Cutters 

Masking tape - Straight Edged Ruler - Pen or pencil - Drill and Assorted Drill Bits

If exposed to direct sunlight and/or heat, wrinkles 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 low temperature. You can fix the corners by using a hot iron.



Low setting

 Drill holes using the stated size of drill (in this case 1.5 mm Ø)	 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

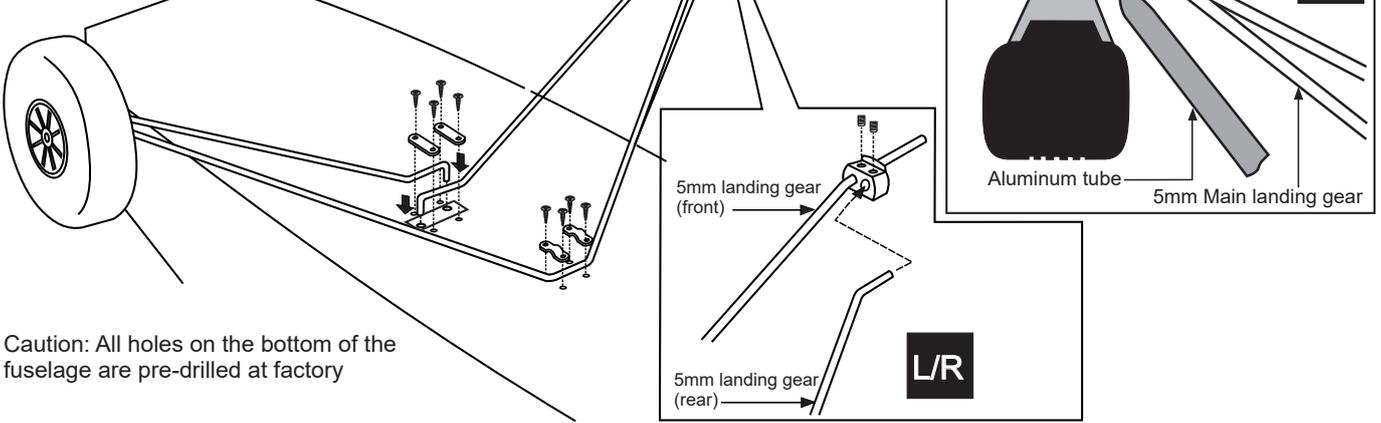
CONVERSION TABLE

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

PC-6 Porter 1- Landing gear

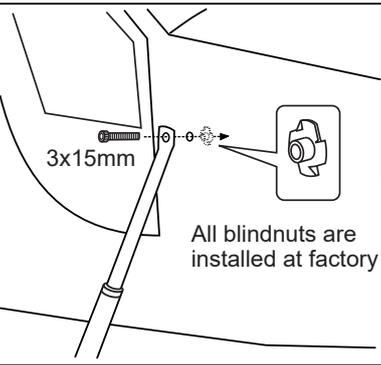
- | | | |
|--|---|--|
| 3x12mm screw
8 | Stopper (metal)
2 | 5.5mm Collar
4 |
| Nylon strap
4 | 3mm set screw
4 | |

BOTTOM - VIEW

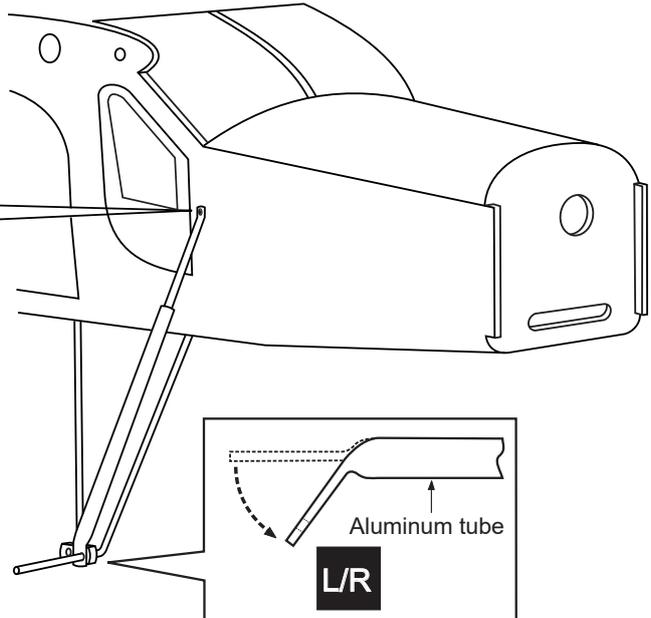


Caution: All holes on the bottom of the fuselage are pre-drilled at factory

PC-6 Porter 2- Landing gear



- | | |
|--|--|
| 3x15mm screw
2 | |
| Spring.....2 | |
|  | |
| Main landing gear (5mm).....2 | |
| Landing gear (5mm).....1 | |

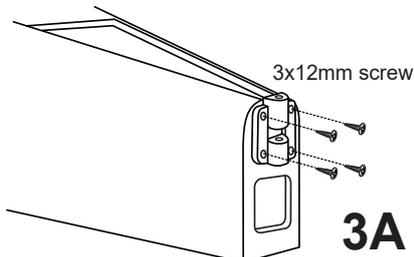


Two holes on the left and the right side of the fuselage are pre-drilled at factory

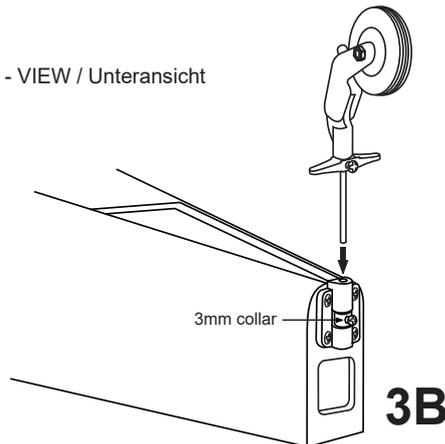
PC-6 Porter 3- Tail gear

- | |
|---|
|  Tail gear mount...1 |
|  3x12mm screw.....4 |

BOTTOM - VIEW / Unteransicht



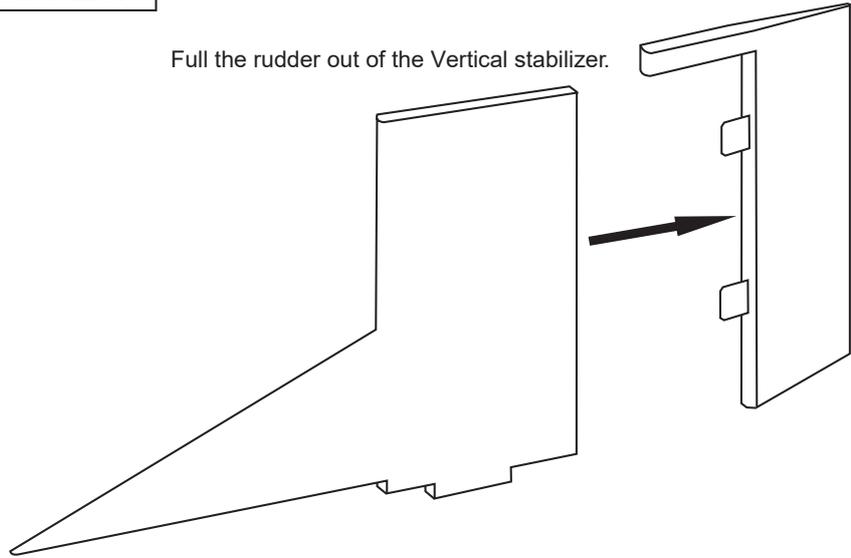
3A



3B

PC-6 Porter 6- Vertical stabilizer

Full the rudder out of the Vertical stabilizer.



TOP VIEW

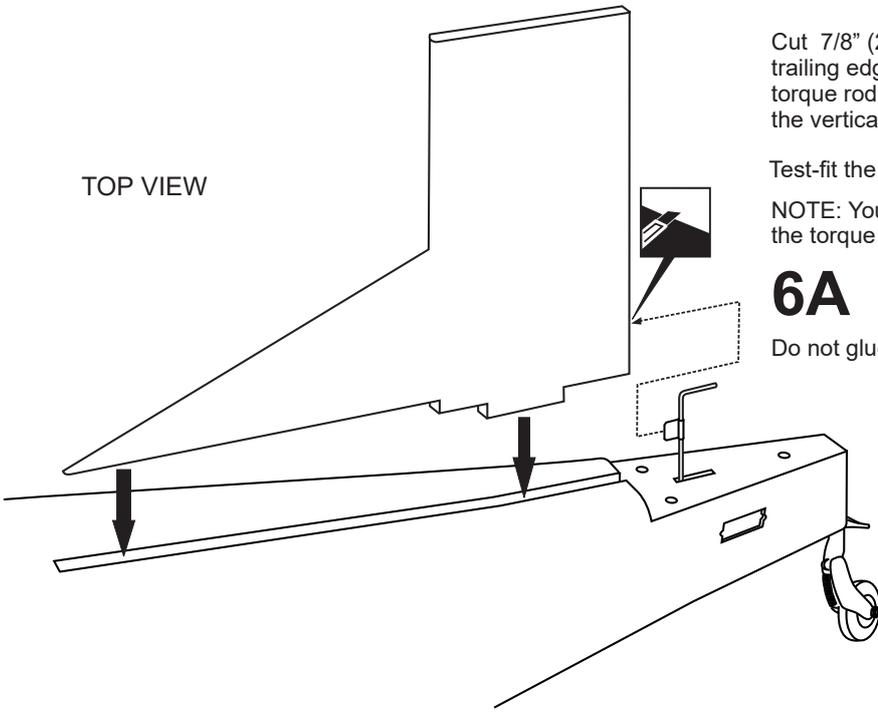
Cut 7/8" (22mm) long slots along the hinge line in the trailing edge of the vertical stabilizer for the rudder torque rod bearing. Position of the slot on the side of the vertical stabilizer, 2"(50mm) from the bottom (6A)

Test-fit the rudder torque rods into the slot.

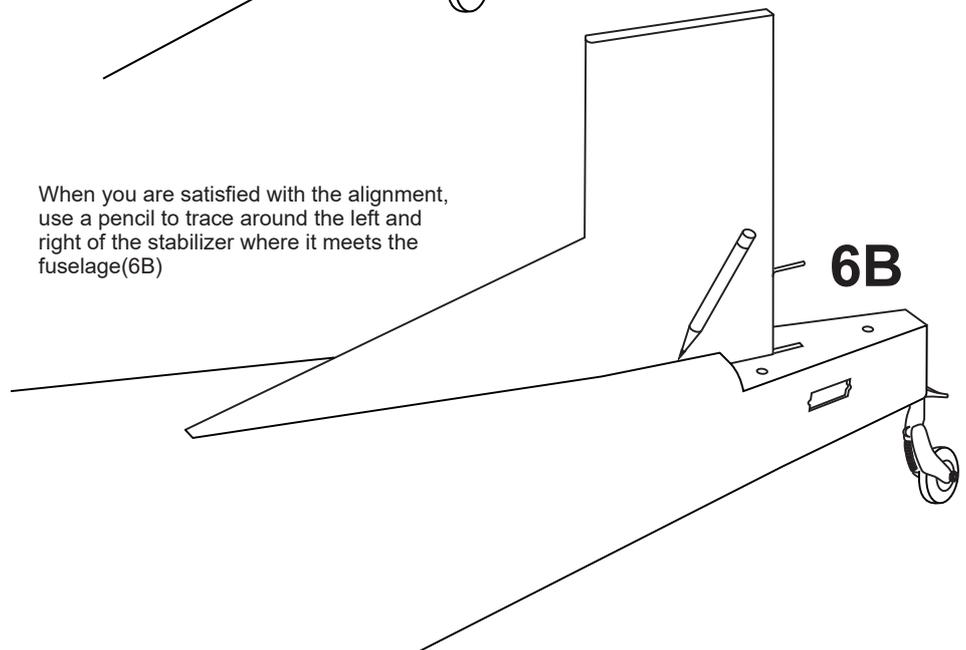
NOTE: You may need to open up the slots so that the torque rod bearing are not too difficult to push in

6A

Do not glue as this time

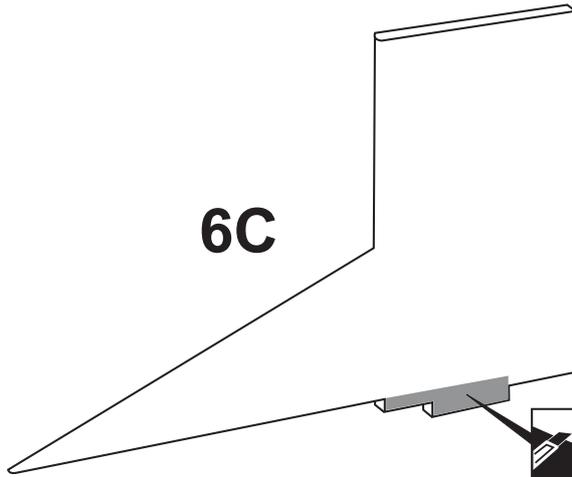


When you are satisfied with the alignment, use a pencil to trace around the left and right of the stabilizer where it meets the fuselage(6B)



PC-6 Porter 7- Vertical stabilizer

6C



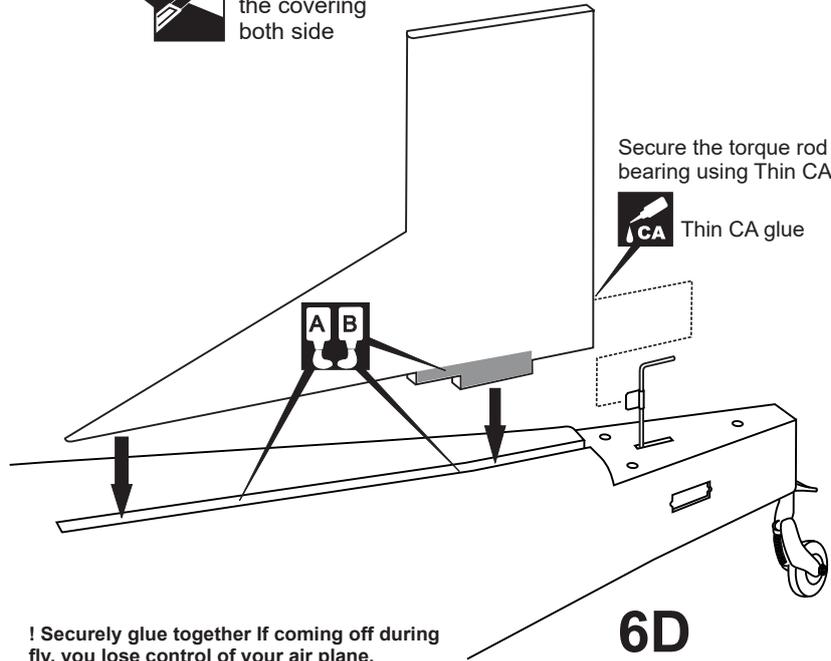
Remove the vertical stabilizer from the fuselage. Using the sharp hobby knife, carefully cut away the covering inside the lines which were marked above(6C)

*** WARNING:** When removing any covering from the airframe, please ensure that you secure the cut edge with CA or similar cement. This will ensure the covering remain tight.

Cut away only the covering both side

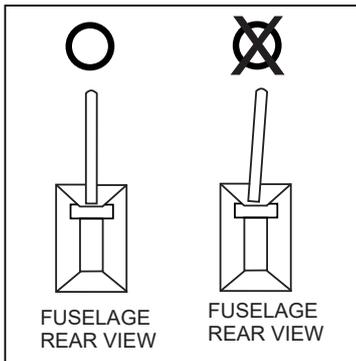
Secure the torque rod bearing using Thin CA

Thin CA glue

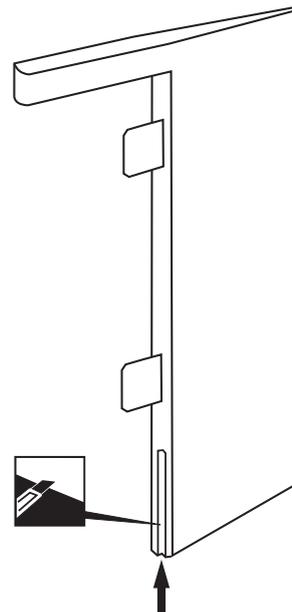
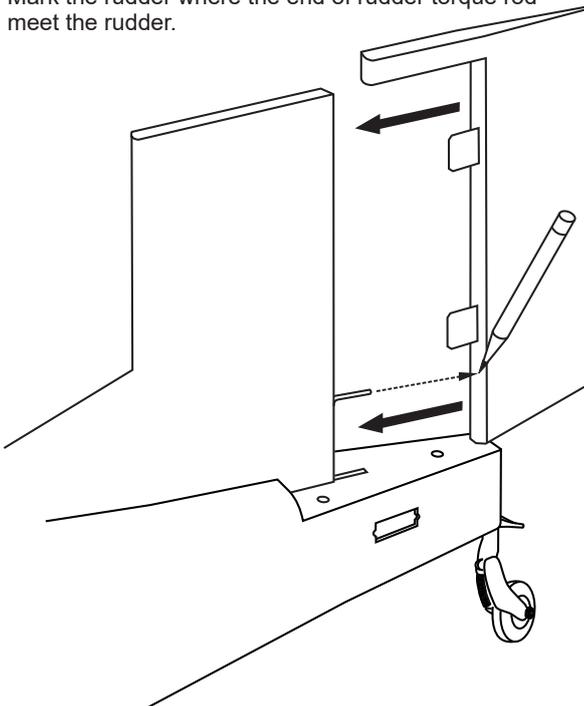


! Securely glue together If coming off during fly, you lose control of your air plane.

6D



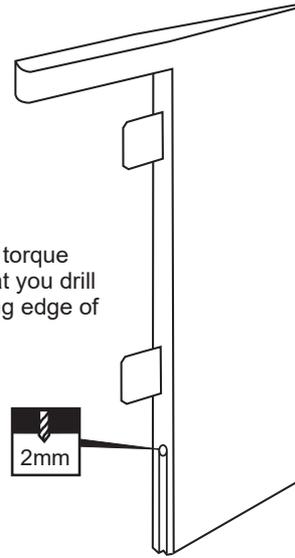
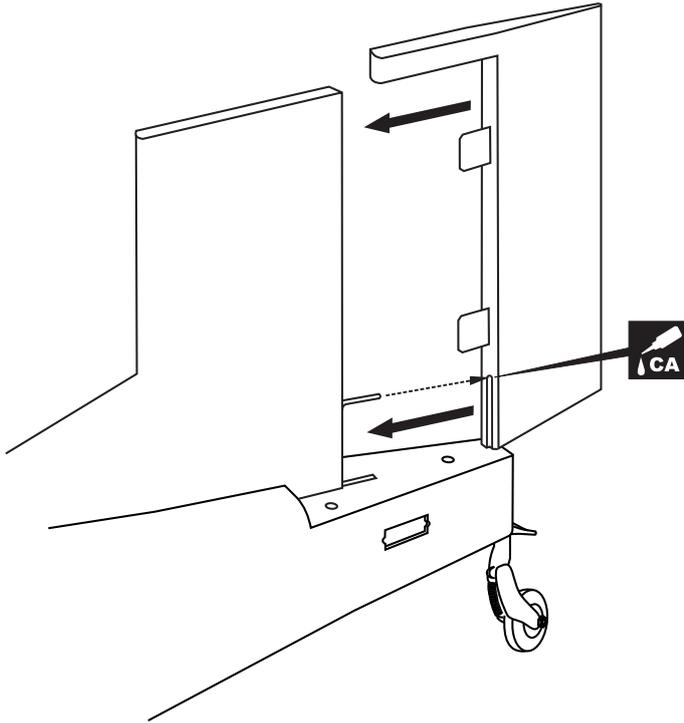
Mark the rudder where the end of rudder torque rod meet the rudder.



Cut away the covering material from over the precut rudder torque rod mounting slot in rudder.

PC-6 Porter 8- Vertical stabilizer

Drill a 5/64" (2mm) diameter hole in torque rod mounting slot, marking sure that you drill the hole perpendicular to the leading edge of the rudder.



Apply a thin layer of petroleum jelly

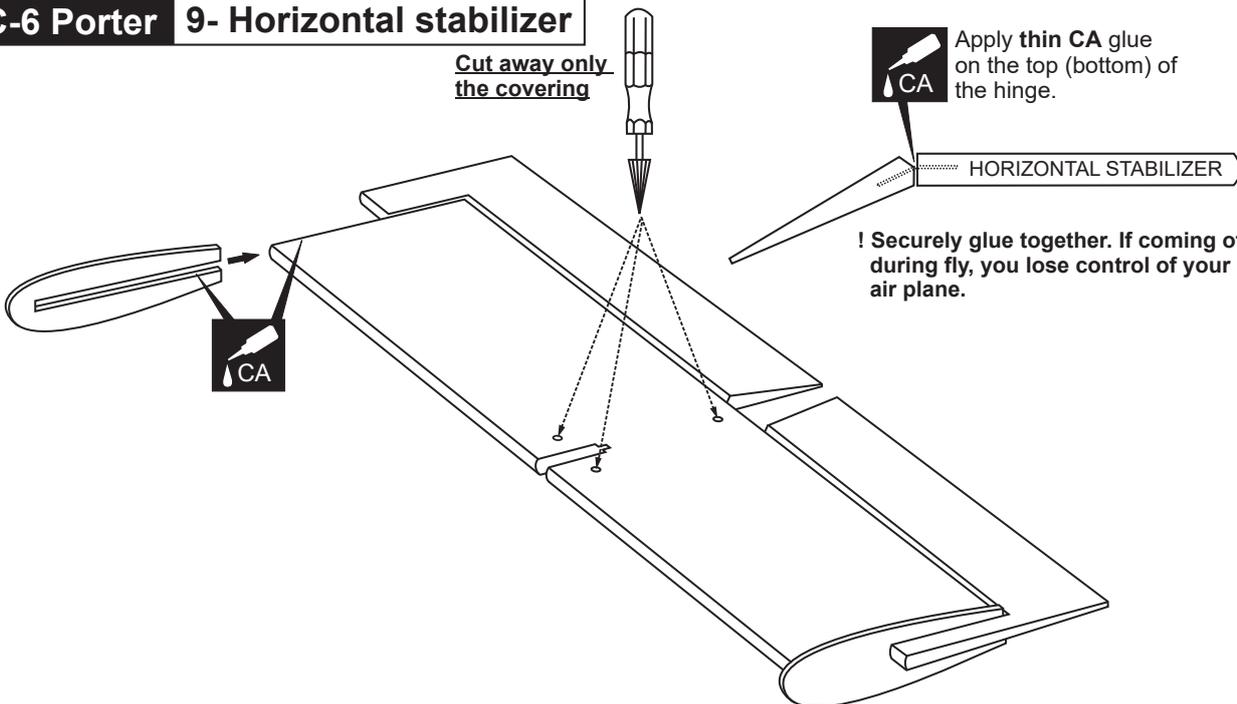
Apply **thin CA** glue on the left (right) of the hinge.



! Securely glue together. If coming off during fly, you lose control of your air plane.

PC-6 Porter 9- Horizontal stabilizer

Cut away only the covering



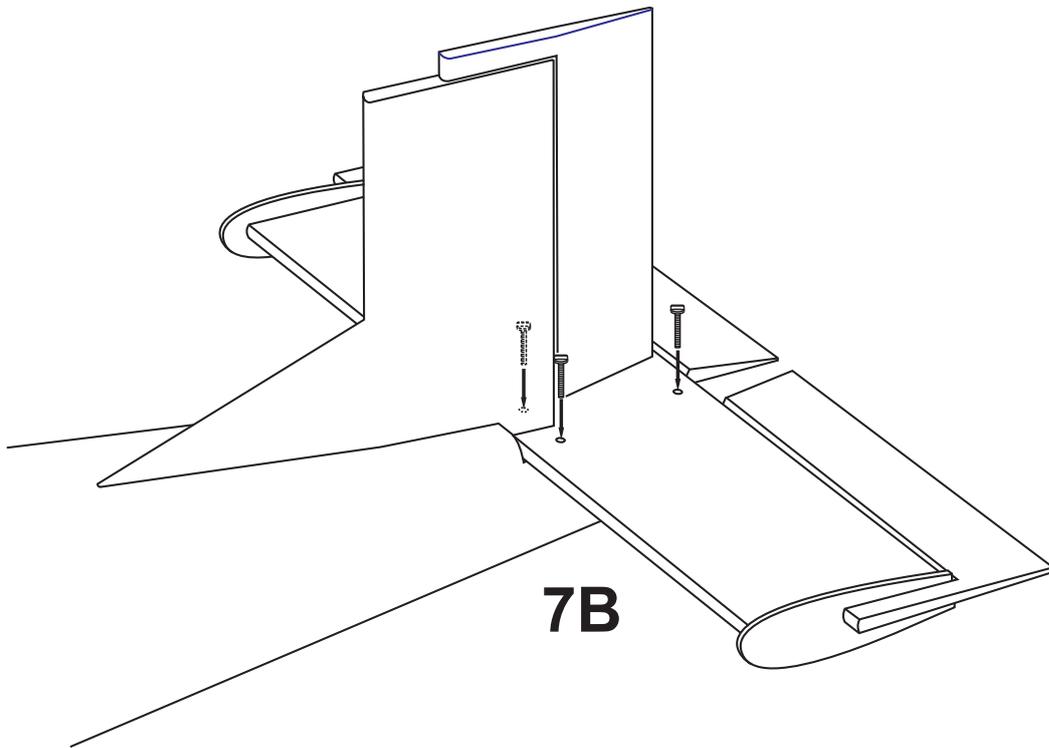
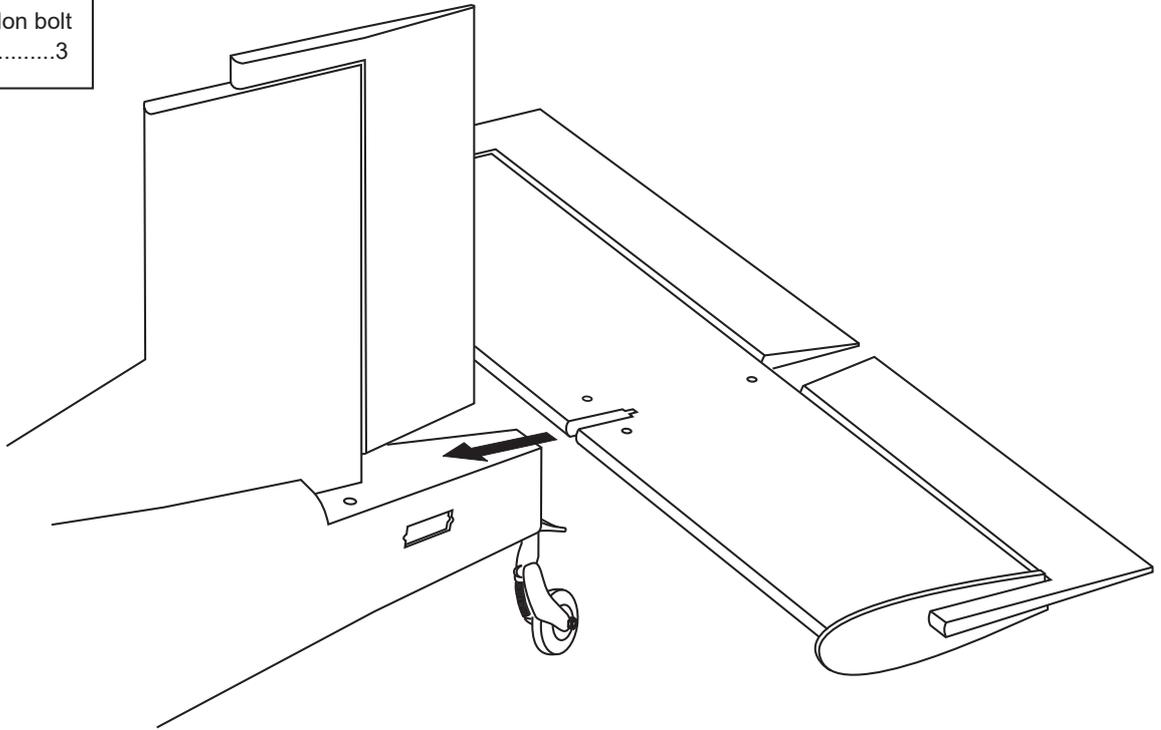
Apply **thin CA** glue on the top (bottom) of the hinge.

! Securely glue together. If coming off during fly, you lose control of your air plane.

PC-6 Porter 10- Horizontal stabilizer

30x4mm nylon bolt

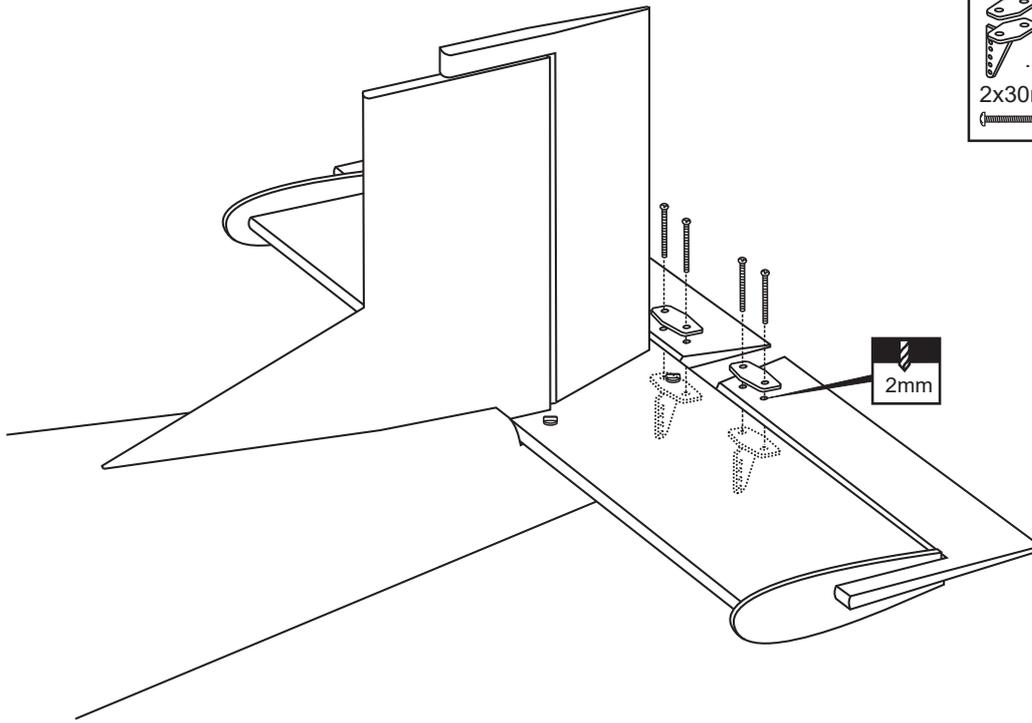
3



7B

PC-6 Porter 11- Horizontal stabilizer

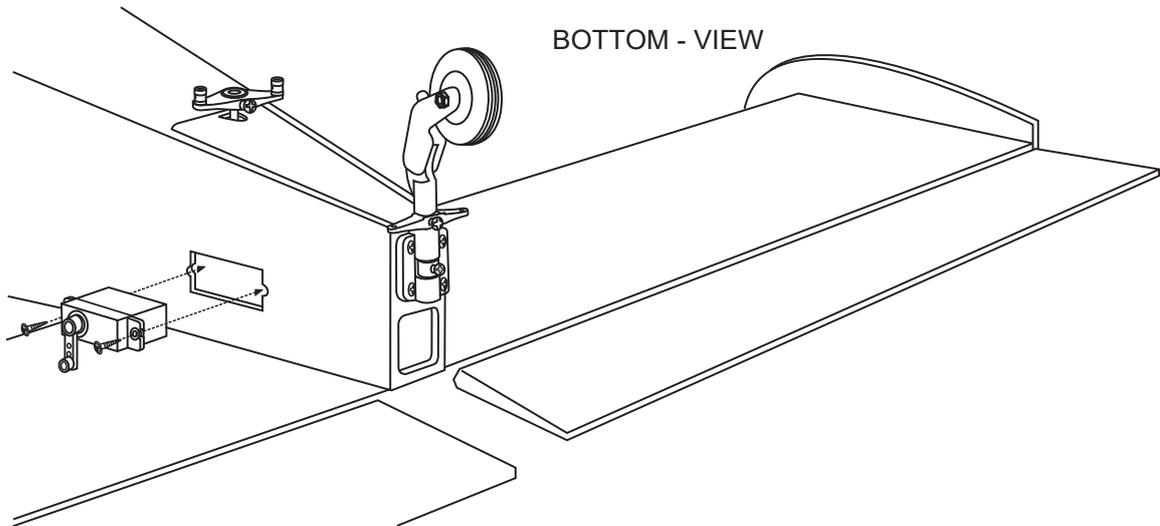
- Control horn2
- 2x30mm screw4



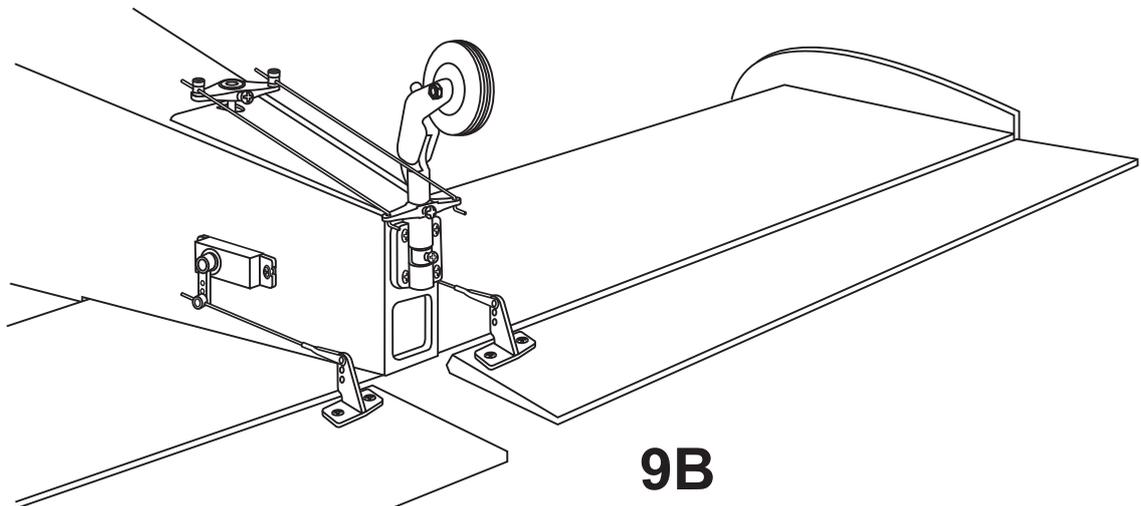
PC-6 Porter 12- Elevator servo

BOTTOM - VIEW

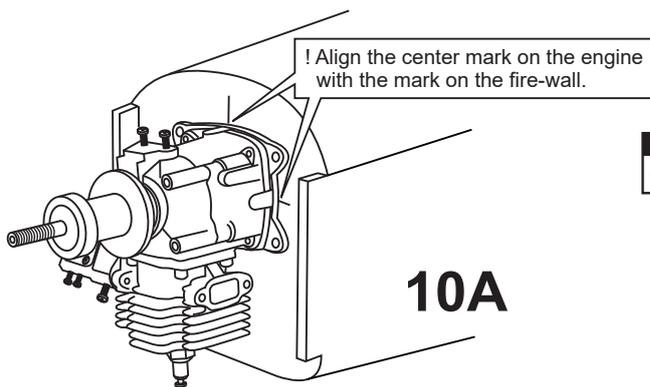
9A



9B

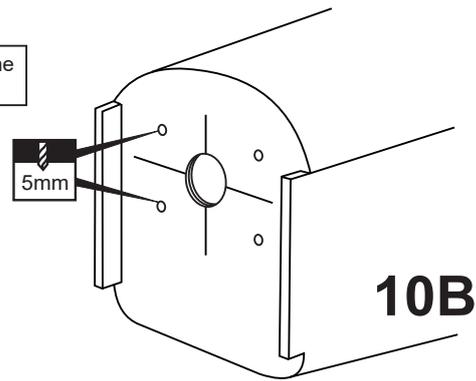


PC-6 Porter 13- Gas Engine & Cowl



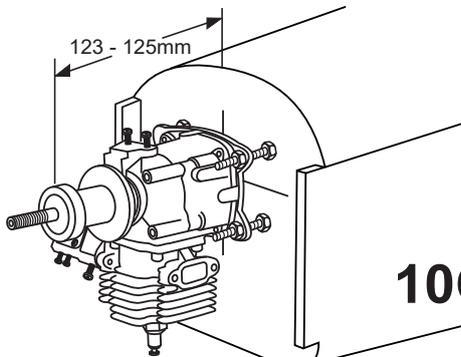
10A

Using a pencil or felt tipped pen, mark the fire wall where the four holes are to be drilled (10A).



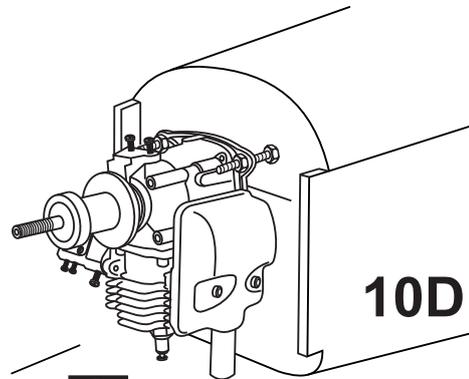
10B

Remove the engine mount and drill a 13/64"(5mm) hole through the fire-wall at each of the four marks marked (10B).

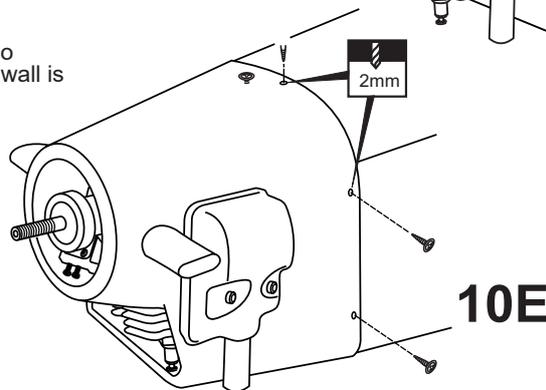


10C

Reposition the engine on to the fire-wall so the distance from the prop hub to the fire-wall is 4.8 - 4.9"(123 - 125mm) (10C).



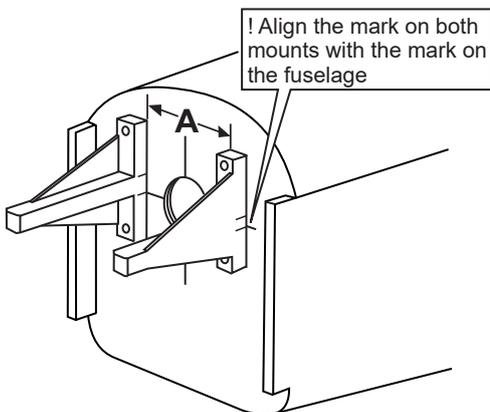
10D



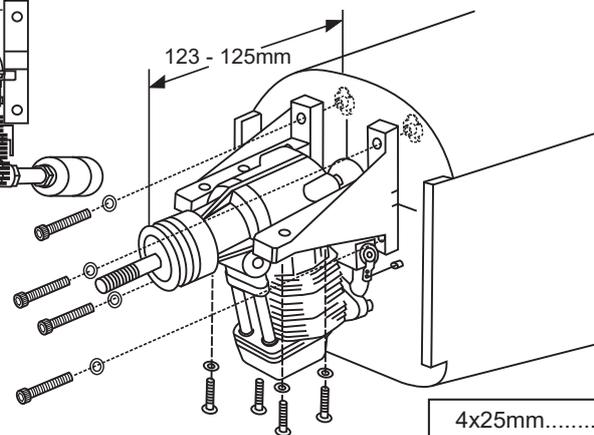
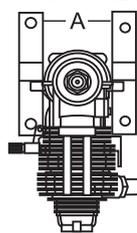
10E

3x12mm screw
5

PC-6 Porter 14- Glow Engine



FRONT-VIEW



4x25mm.....4
4

4

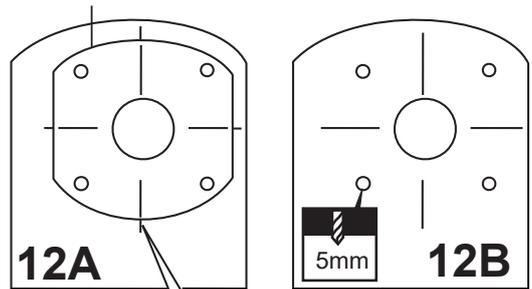

Using a pencil or felt tipped pen, mark the fire wall where the four holes are to be drilled
 Remove the engine mount and drill a 5mm hole through the fire-wall at each of the four marks marked.
 Attach the four blind-nut to the fire-wall as show

PC-6 Porter 15- Electric motor

- Using a plywood motor mounting plate as a template, mark the fire wall where the four holes are to be drilled (12A).
- Remove the plywood motor mounting plate and drill a 13/64"(5mm) hole through the fire-wall at each of the four marks marked (12B).
- Using an aluminum motor mounting plate as a template, mark the plywood motor mounting plate where the four holes are to be drilled (12C).
- Remove the aluminum motor mounting plate and drill a 1/8"(3mm) hole through the plywood at each of the four marks marked (12D).

Plywood motor mounting plate
Sperrholztrager Platten

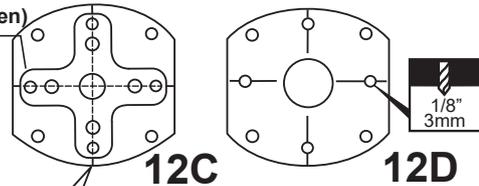
FRONT-VIEW
Vorderansicht



! Align with the marks
An den Markierungen ausrichten

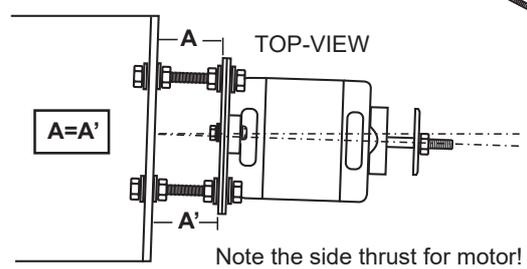
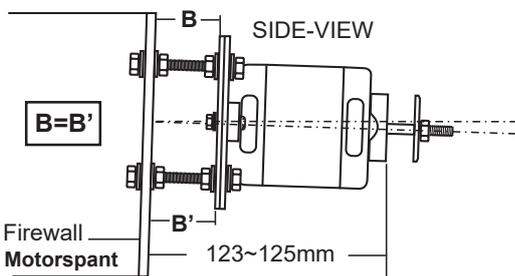
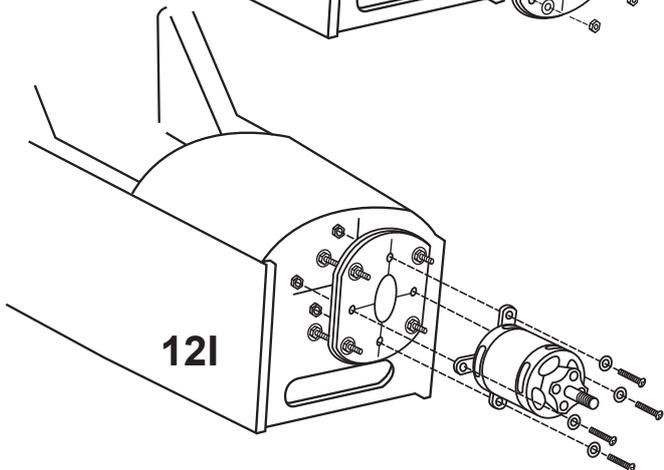
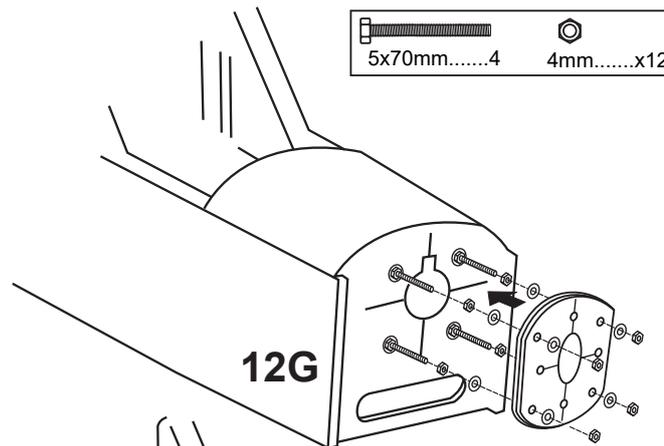
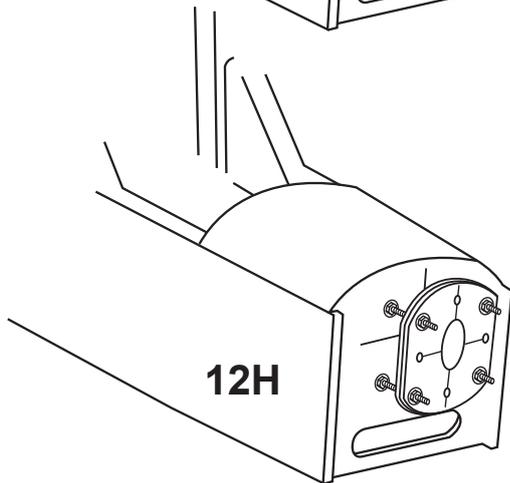
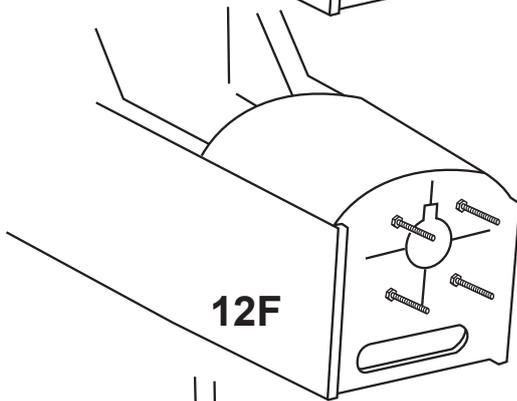
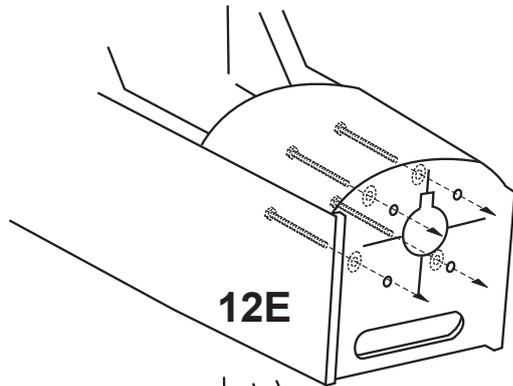
Montagekreuz aus Alu (nicht enthalten)

Aluminum motor mounting plate



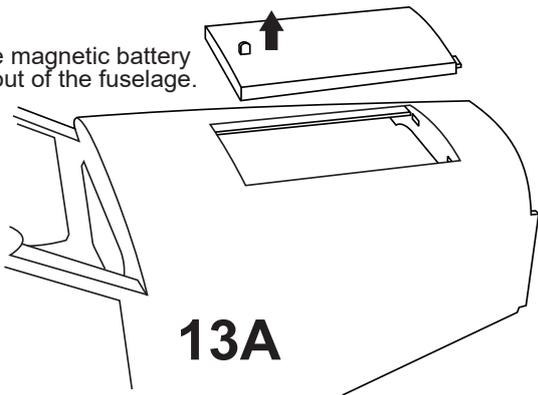
! Align with the marks
An den Markierungen ausrichten

5x70mm.....4 4mm.....x12

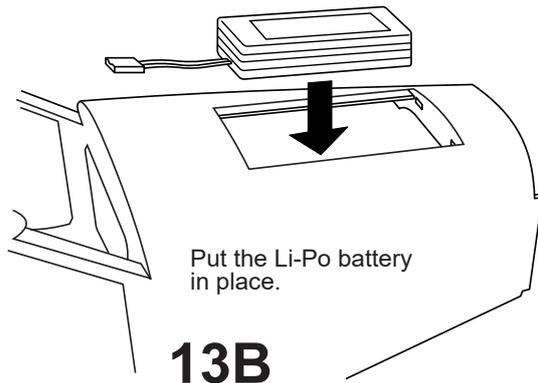


PC-6 Porter 16- Fuel tank / Lipo. Battery

Full the magnetic battery hatch out of the fuselage.

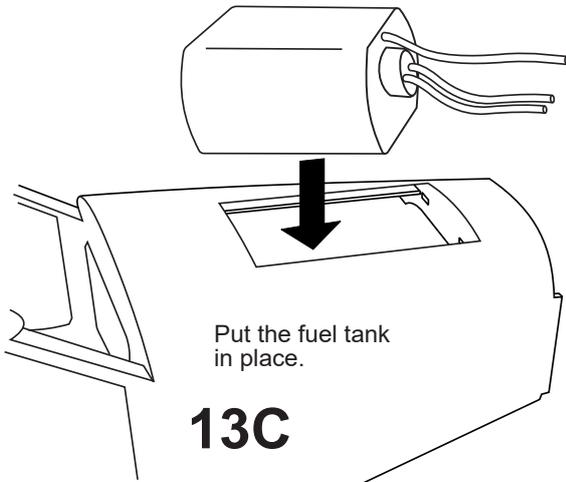


13A



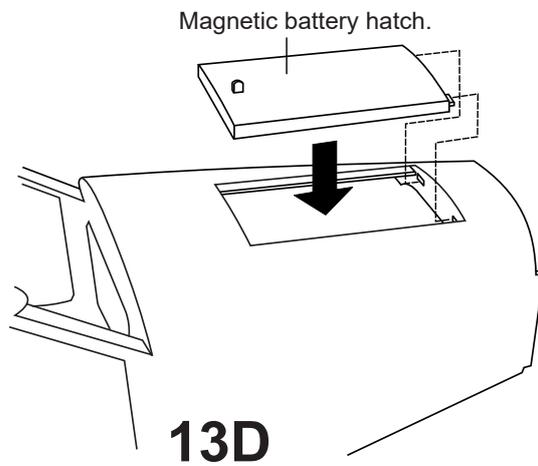
Put the Li-Po battery in place.

13B



Put the fuel tank in place.

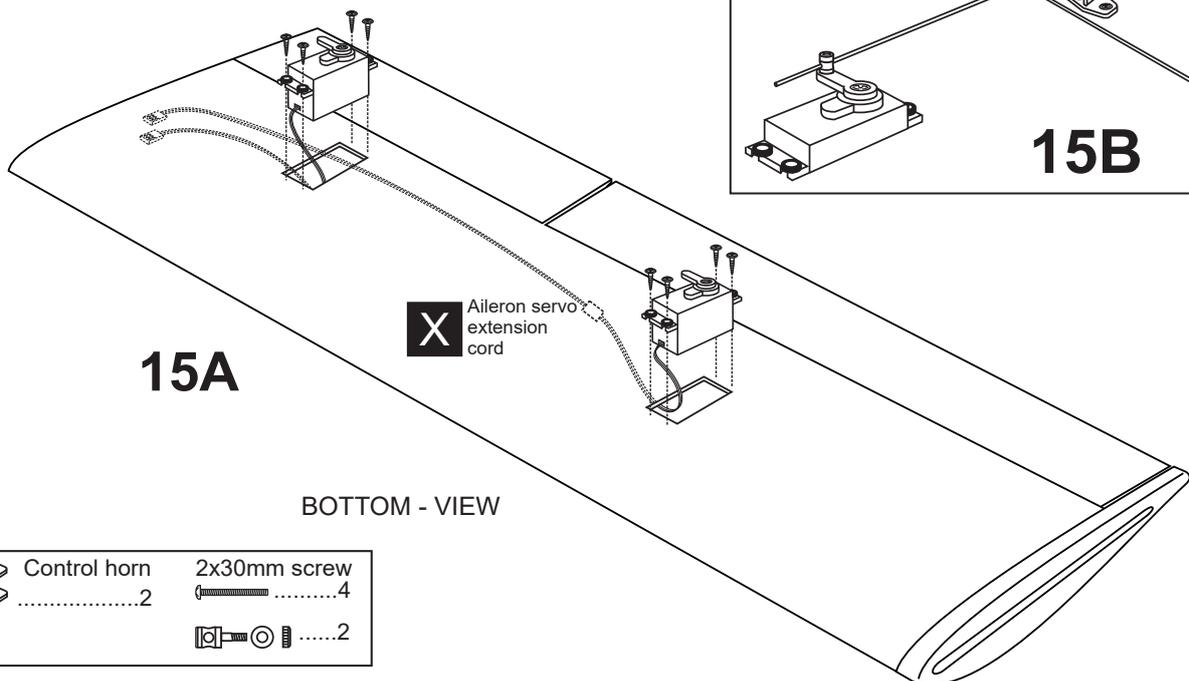
13C



Magnetic battery hatch.

13D

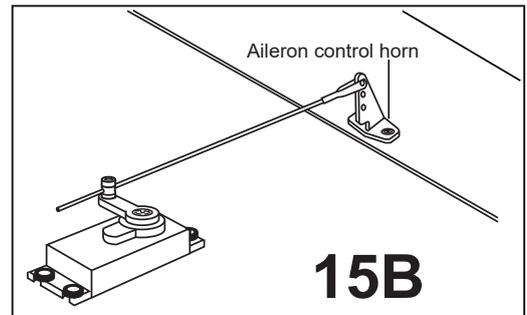
PC-6 Porter 17- Aileron and flap servo



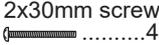
15A

X Aileron servo extension cord

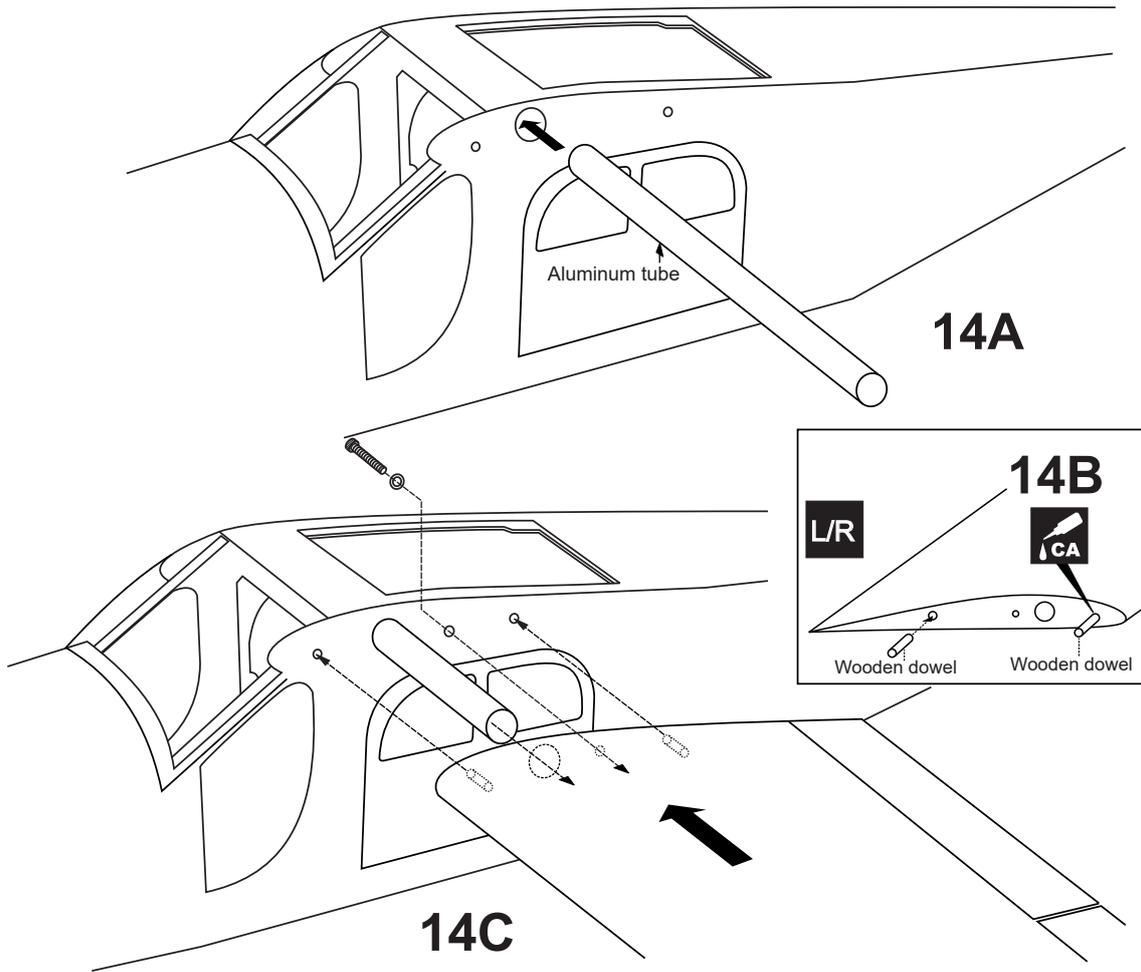
BOTTOM - VIEW



15B

	Control horn		2x30mm screw
.....24
2

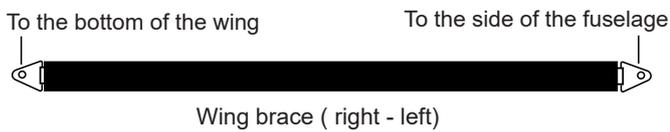
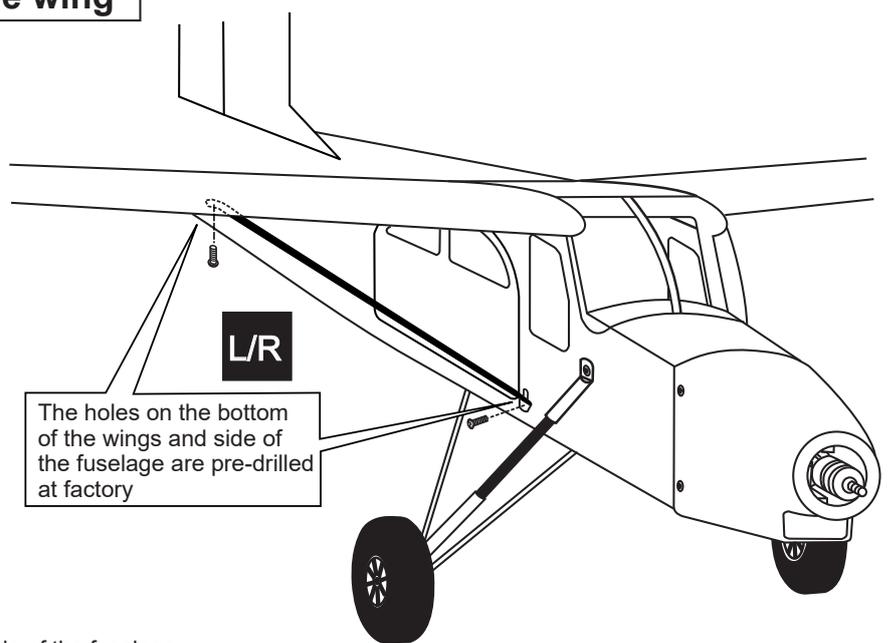
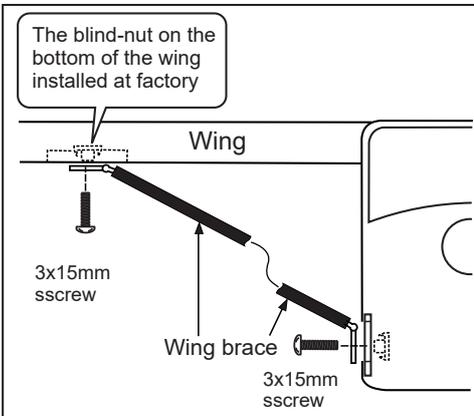
PC-6 Porter 18- Installing the wing



PC-6 Porter 19- Installing the wing

3x15mm screw / Schraube

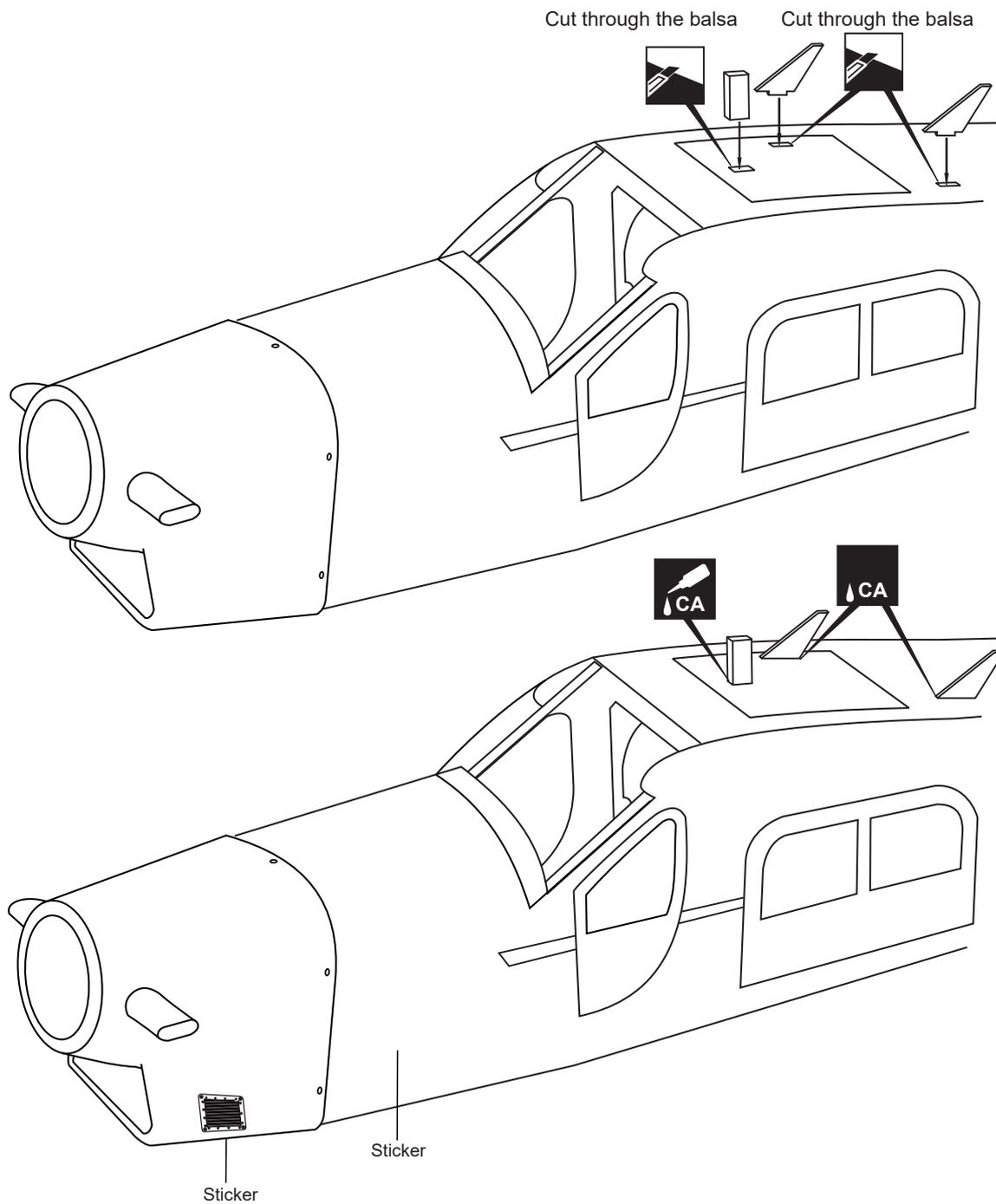
-2
-2



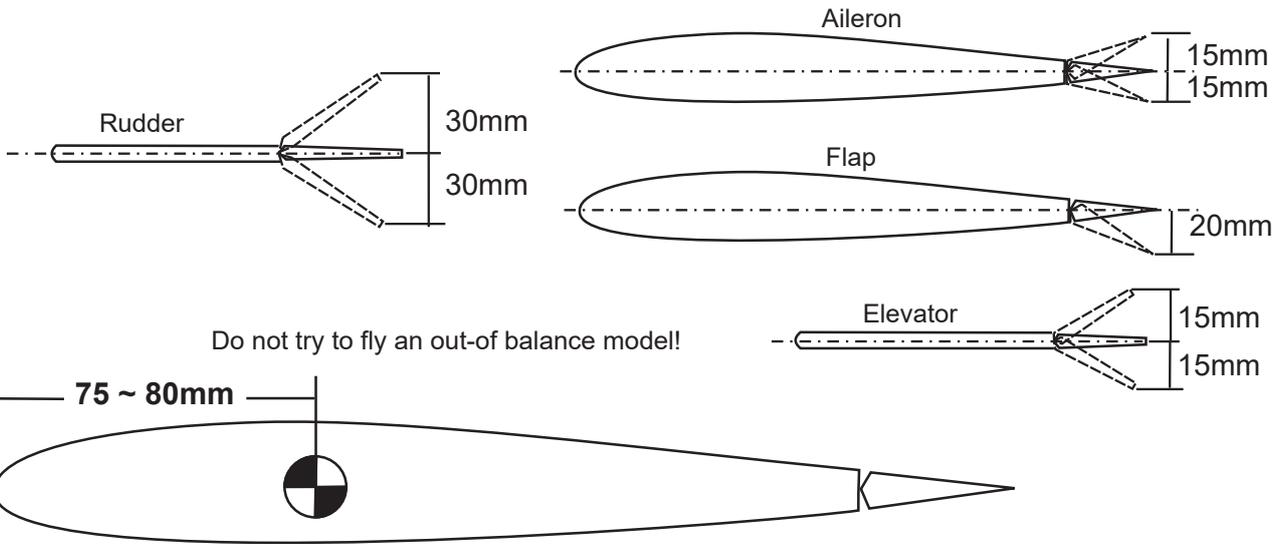
PC-6 Porter 20- Decor

IMPORTANT:

Please do not clean your model with pure alcohol, only use liquid soap with water or use glass cleaner to clean on surface of your model to keep the colour not fade.



PC-6 Porter 21- Balance and control surface



H·KING