### Radio control model / Flugmodel

# JAPANESE DIVE BOMBER AICHI D3A1 "VAL"



VQ No: VQA138 GREEN VQ No: VQA138 GRAY

ALL BALSA, PLYWOOD CONSTRUCTION AND ALMOST READY TO FLY

# Instruction manual / Montageanleitung

#### **SPECIFICATIONS**

Length:	1120mm
Electric Motor:	See next pager
Glow Engine:	46 2-T / .70 4-T
RTF Weight: 3.5Kg (will	vary with equipment
use)	
Radio:6 C	hannel / 8-9 Servos
Function: Ailerons-Elev	ator-Rudder-Throttle
Flaps.	

Wingspan:.....1540mm

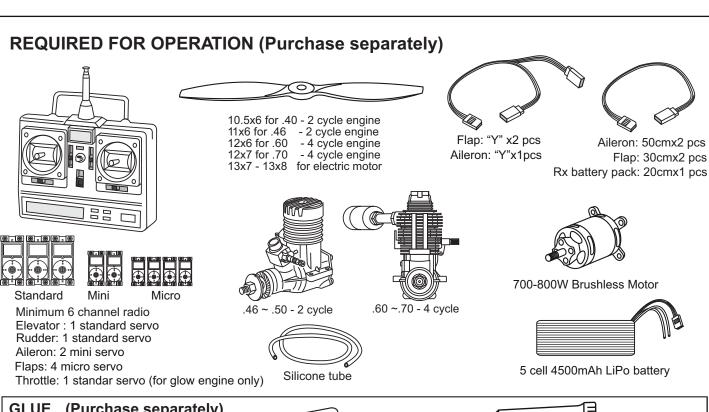
#### **TECHNISCHE DATEN**

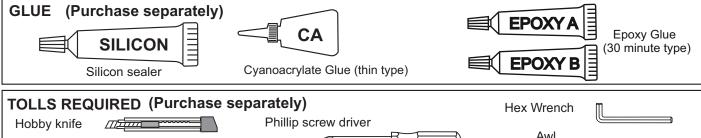
Spannweite:	1540mm
	1120mm
Elektroantrieb	(siehe nächste Seite)
Verbrennerantrieb:	7.45cc - 11.5cc
Fluggewicht:	3.5Kg
Fernsteuerung	.6 Kanal / 8-9 Servos

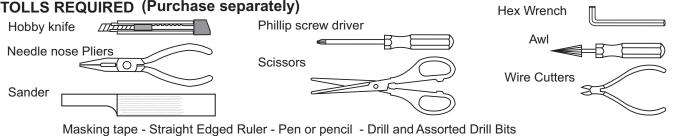


**WARNING!** This radio controlled model is NOT a toy. If modified or flown carelessly it could go out of controll and cause serious human injury or property damage. Before flying your airplane, ensure the air field is spacious enough. Always fly it outdoors in safe areas and seek professional advice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



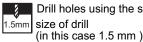




If exposed to direct sunlight and/or heat, wrinkels can appear. Storing the model in a cool place will let the wrinkles disappear. Otherwise, remove wrinkles in covering film with a hair dryer, starting with low temperature. You can fix the corners by using a hot iron.

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

Symbols used throughout this instruction manual, comprise:



Drill holes using the stated size of drill

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"	

#### 1- ENGINE MOUNT

Push left (or right) the magnetic fuel tank hatch and full it out of the fuselage.

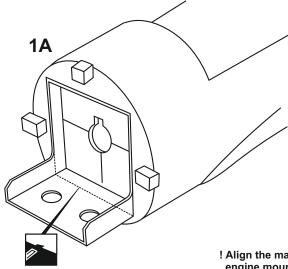
Cut the wood along the line as shown (1A) in case of 4T engine using

Attach the engine mount beams onto the fire-wall so the distance between of two engine mount beams is "A",and B=B' as show.

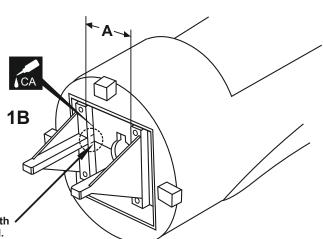
Secure the engine mount beams onto the fire-wall with litter CA glue (1B)

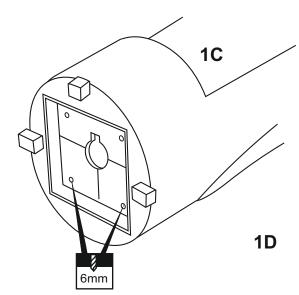
## ! Align the mark on both engine mount beams with the mark on the fuselage

Using a pencil or felt tipped pen, mark the fire wall where the four holes are to be drilled(1B))

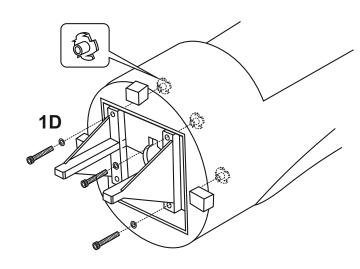


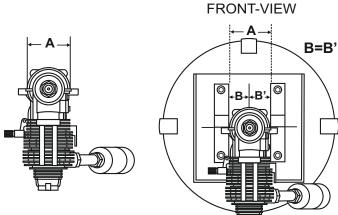
! Align the mark on both engine mount beams with the mark on the fire-wall.





Carefully remove the engine mount beams and drill a 6mm hole through the fire-wall at each of the four marks made above (1C)



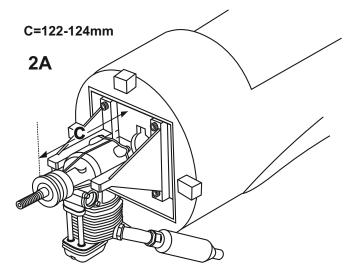


Insert the blind-nut onto each of the four holes make above (1D).

Reposition the engine mount beams on to the fire-wall and secure them with four 4x25mm screw (1D)

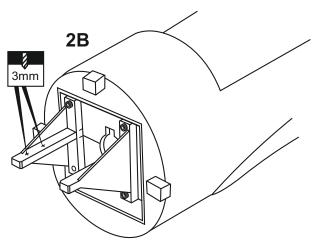
4x25mm screw - washer
<b></b> 4
Blind-nut
4

#### 2- ENGINE



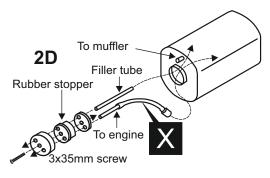
Position the engine to the engine mounts so the distance from the prop hub to the fire-wall is 122 - 124mm.

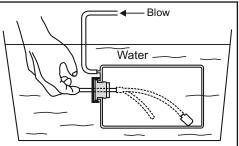
Mark the engine mounting plate where the four holes are to be drilled (2A)



Remove the engine and drill a 3mm holes through the beam at each of the four marks made above (2B)

Marking sure that you drill the hole perpendicular to the beam of the engine mount.

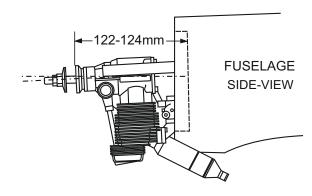


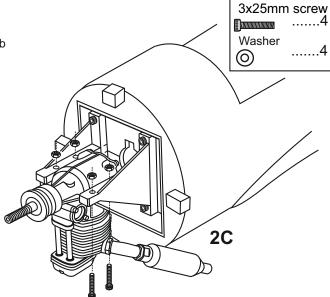


2E

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

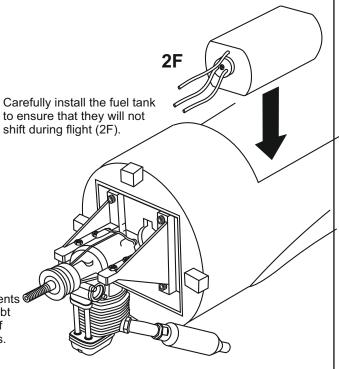
! Engine thrust on balk head is already adjust at factory



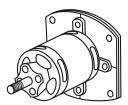


Reposition the engine on the engine mount beams, aligning it with the holes. Secure the engine to the engine mount using four 3x25mm screws (2C)

Note: Apply Silicon sealer to each of the 3x25mm screw and nut.

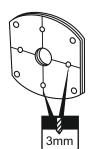


#### **3- ELECTRIC MOTOR**



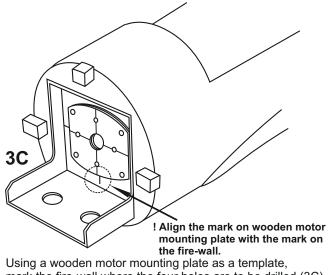
Using a aluminum motor mounting plate as a template, mark the plywood motor mounting plate where the four holes are to be drilled.

**3A** 

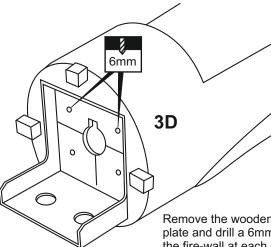


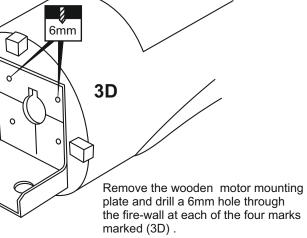
Remove the aluminum motor mounting plate and drill a 1/8"(3mm) hole through the plywood at each of the four marks marked.

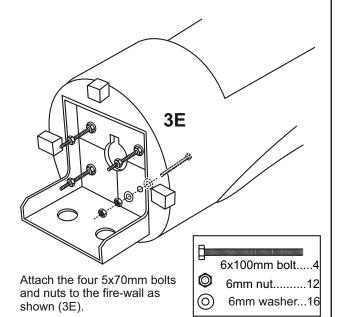
**3B** 

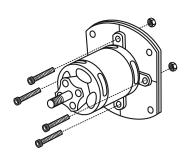


mark the fire-wall where the four holes are to be drilled (3C).





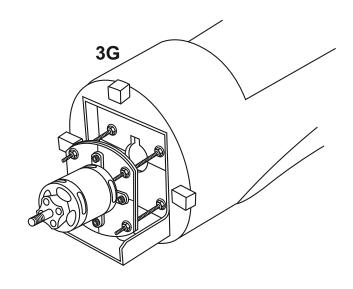




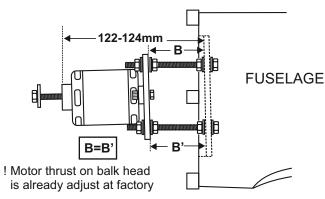
#### 3F

Secure the Motor to the wooden motor mounting plate using the four 3mm bolts.

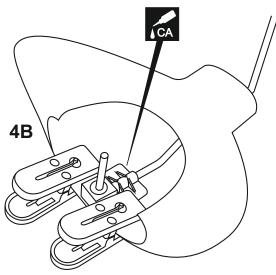




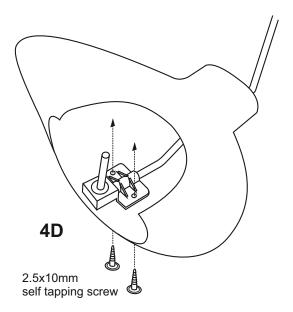
#### SIDE-VIEW / Seitenansicht

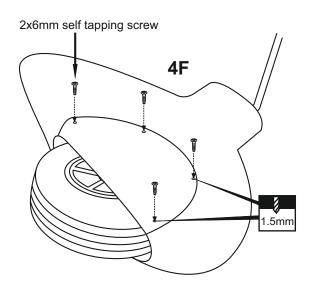


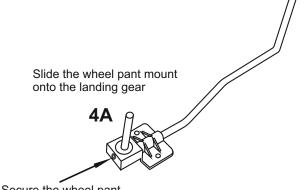
#### **4-WHEEL PANT**



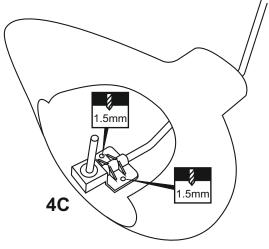
Slide the landing gear with the wheel pant into the fiber glass wheel pant and secure it in place using the two clothespin and litter thin CA glue as shown (4B).



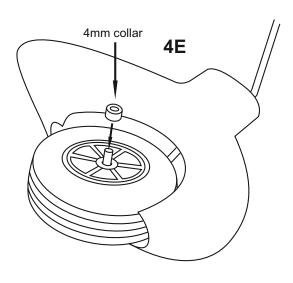




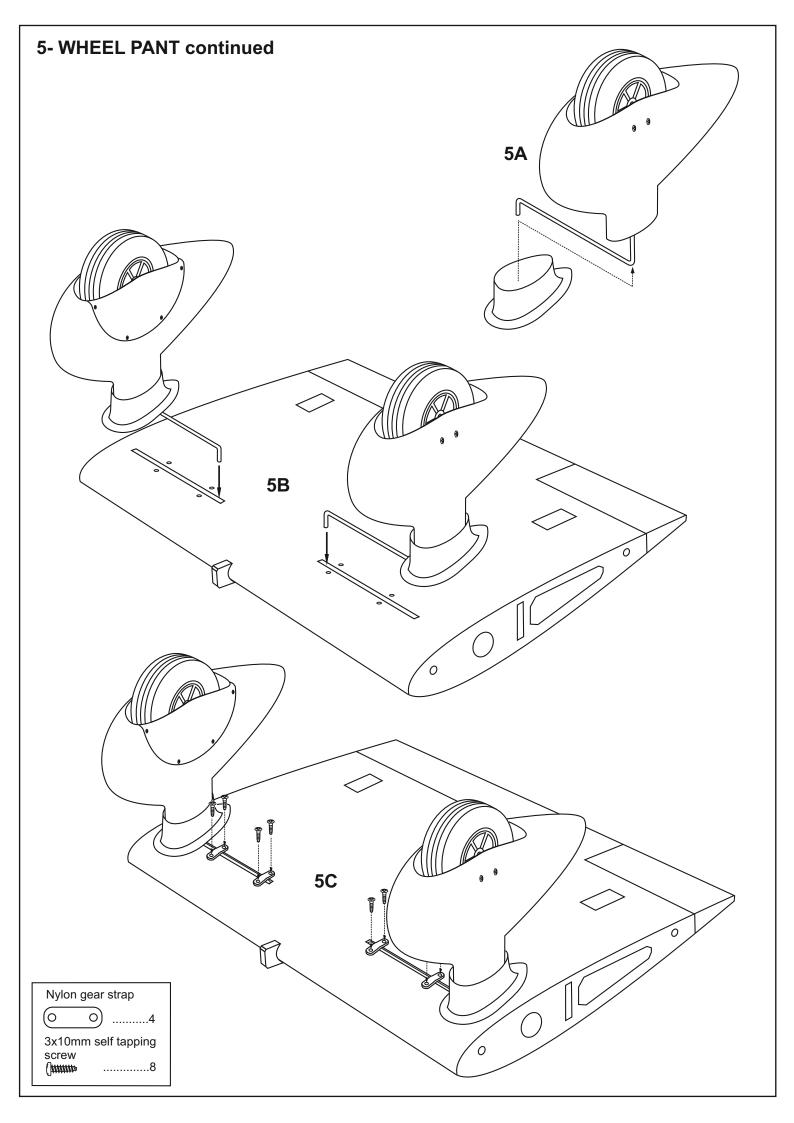
Secure the wheel pant mount in place using the 3mm screw set.

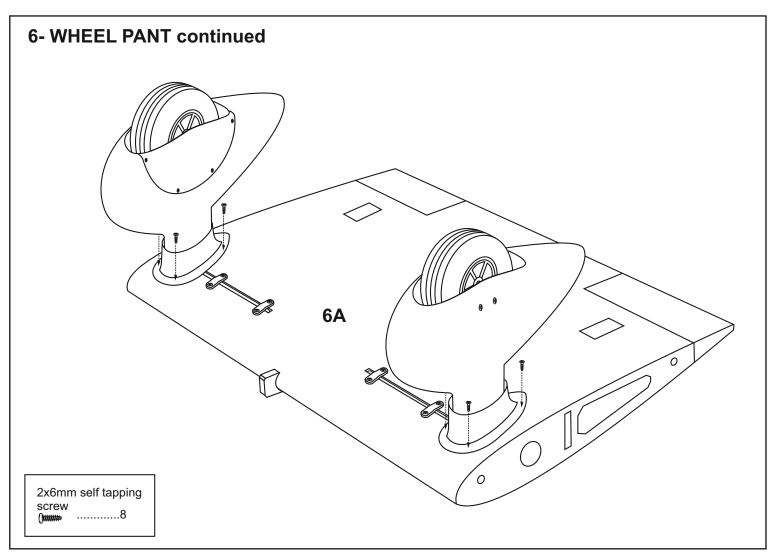


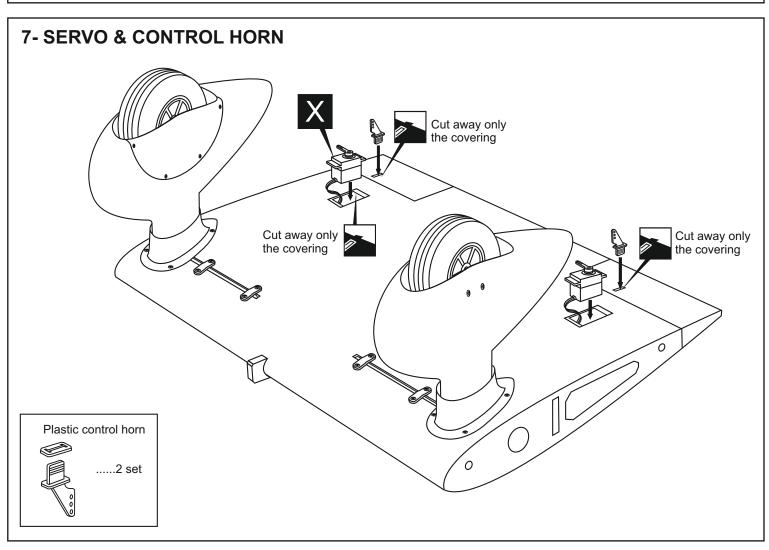
Remove the clothespin and drill the two 1.5mm holes as shown (4C).  $\,$ 

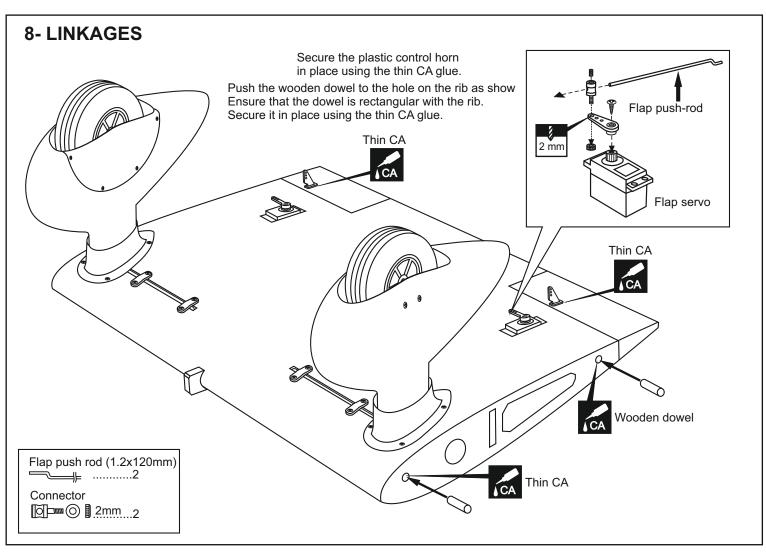


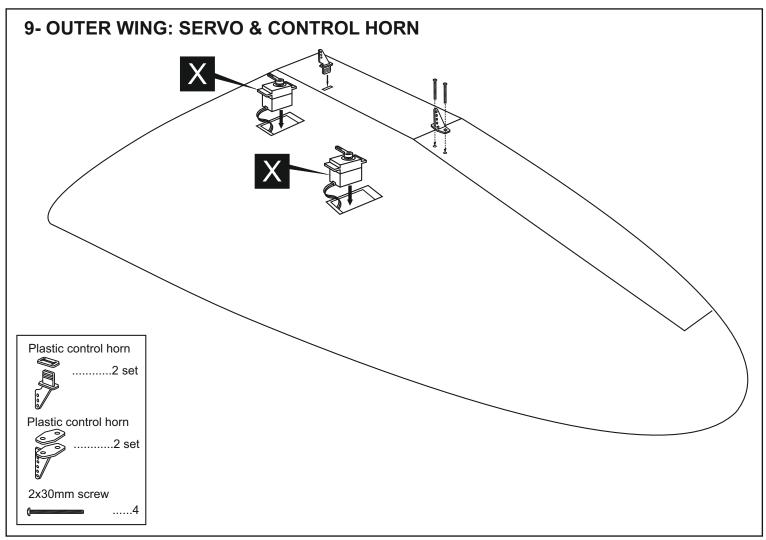
2x6mm self tapping	4mm collar
screw ()#####8	<b>◎</b> 🖟2
Wheel pant mount	2.5x10mm self
	tapping screw
2	(  <i> 111111</i> 11⊅ ······

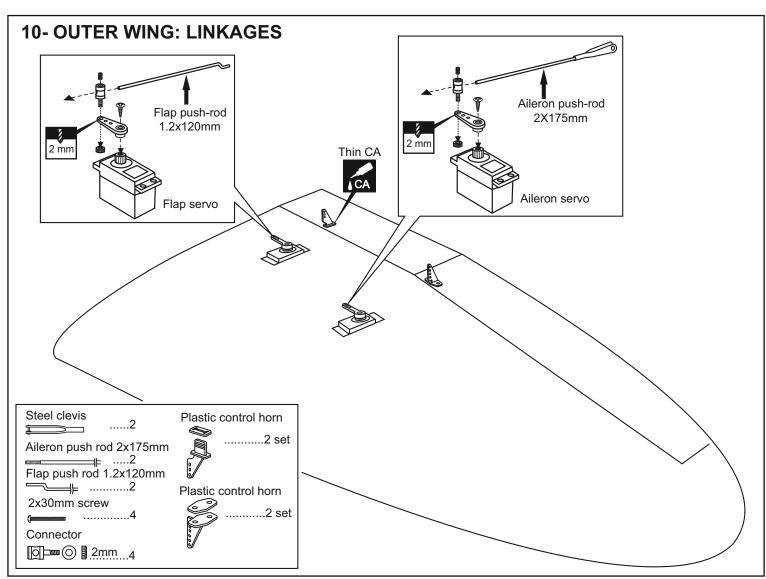


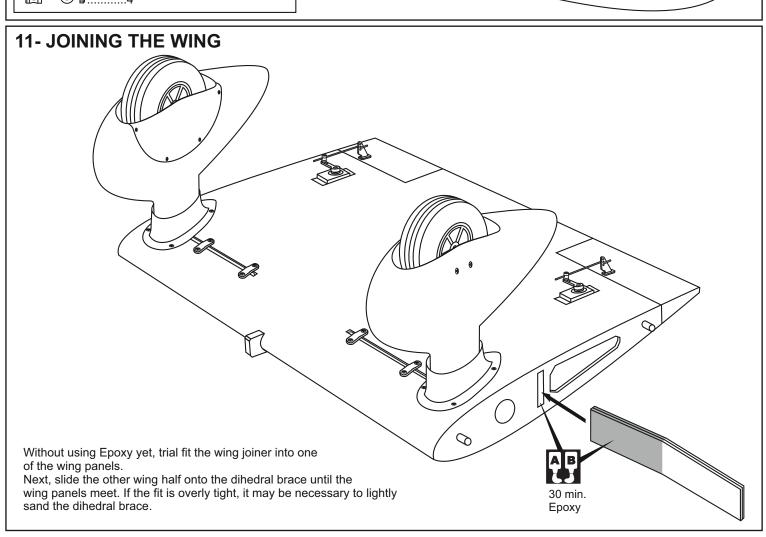


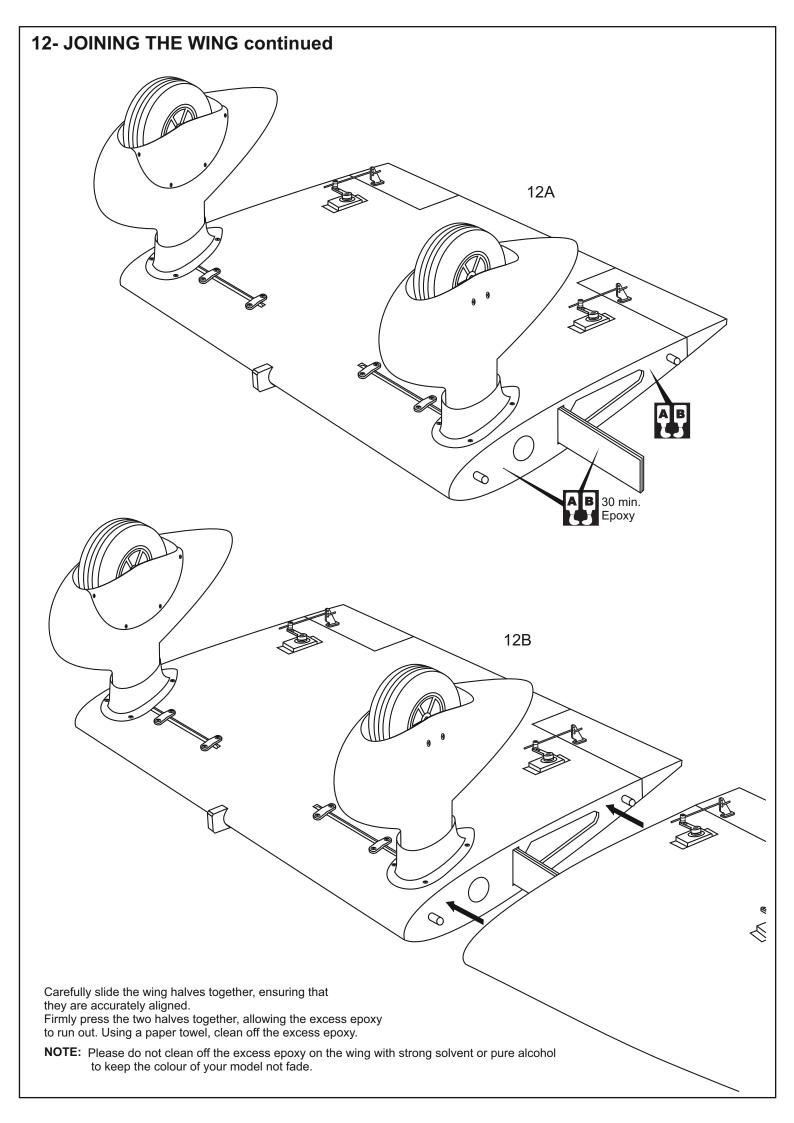


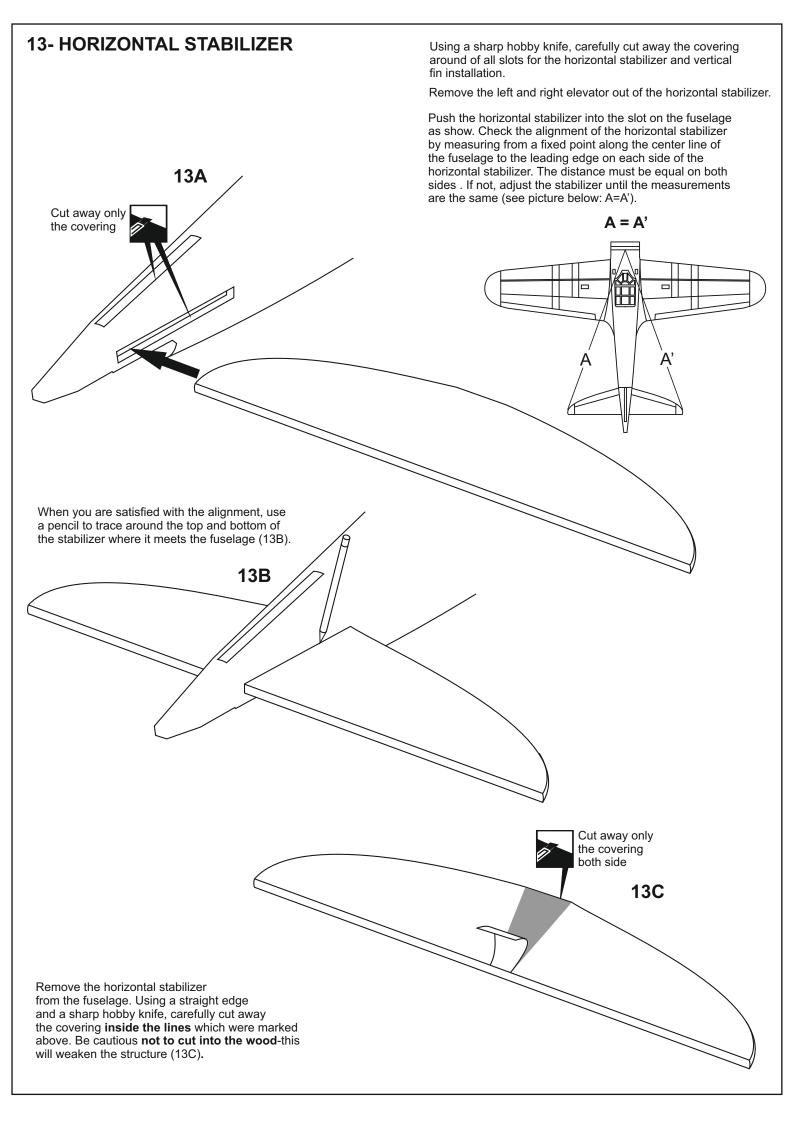


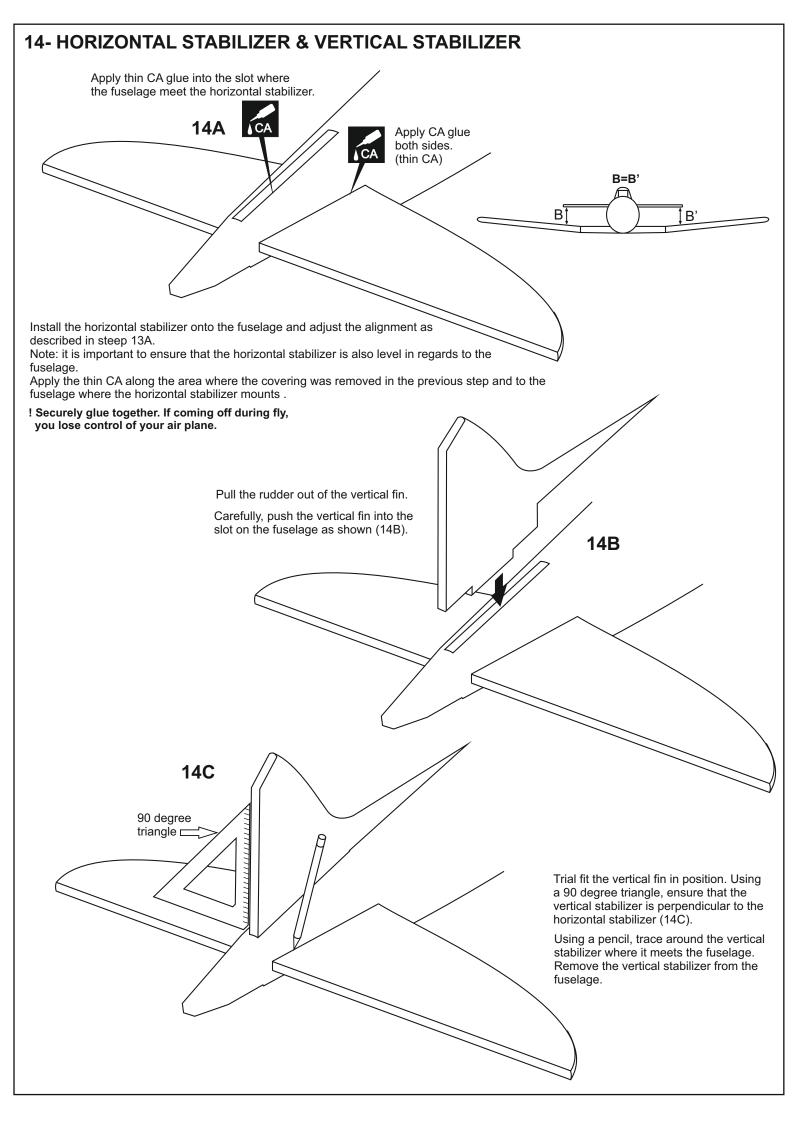


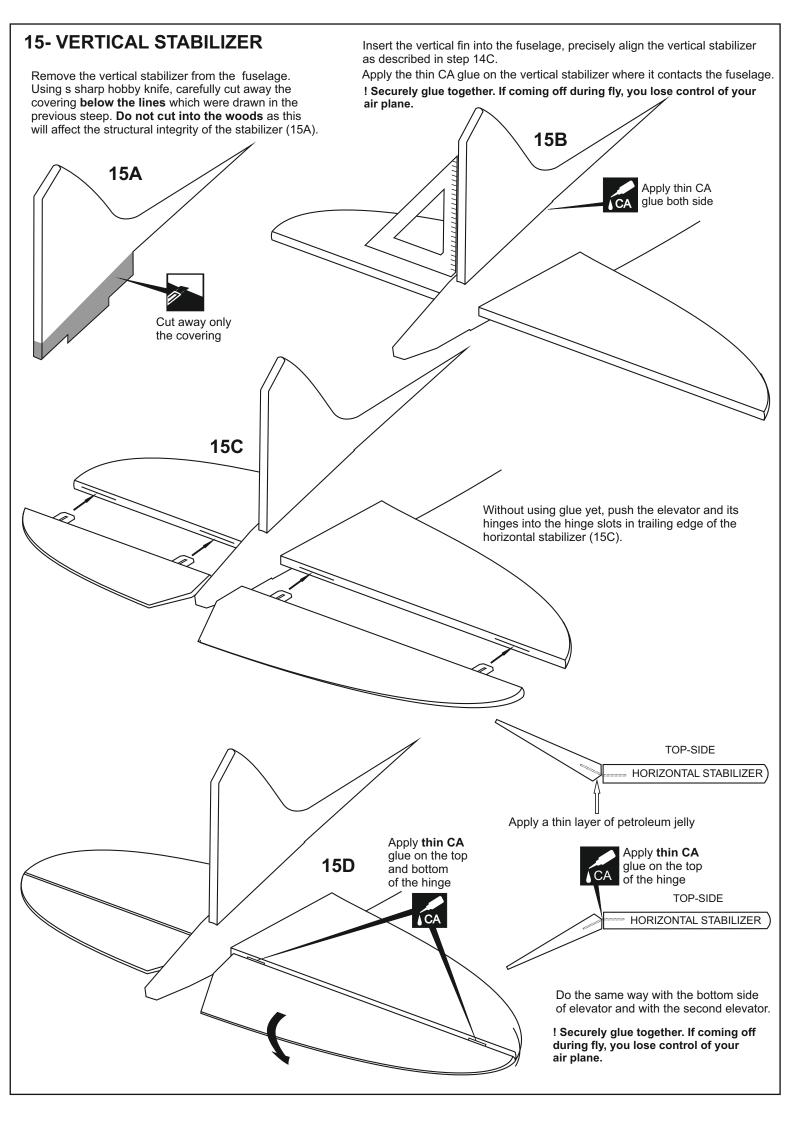


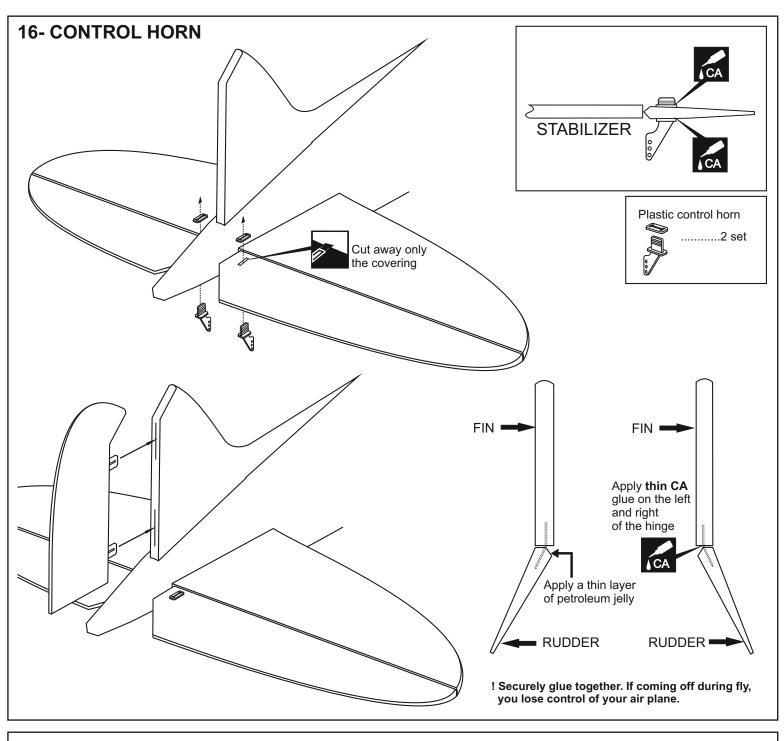


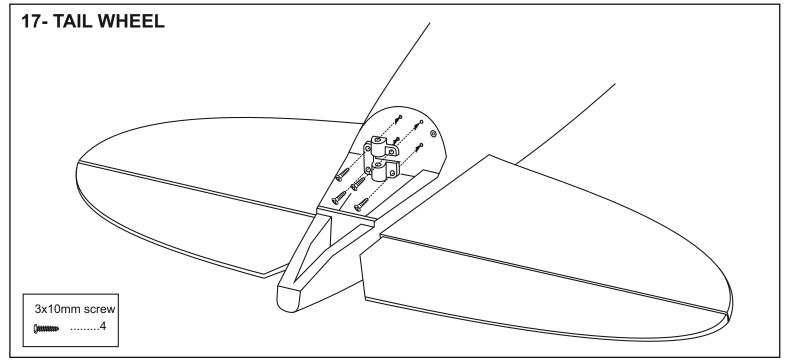


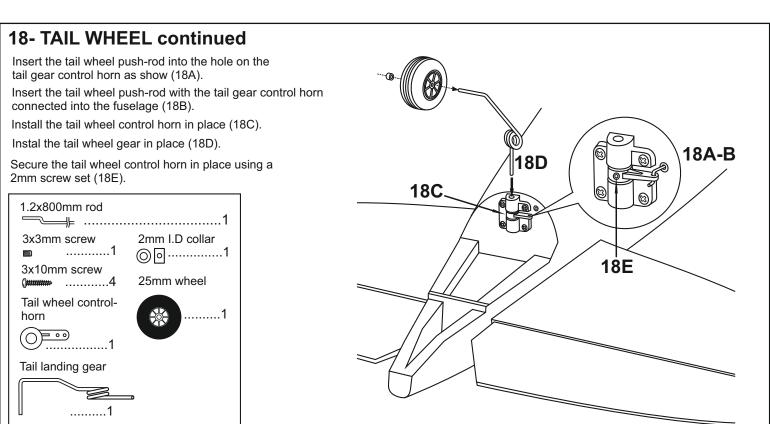


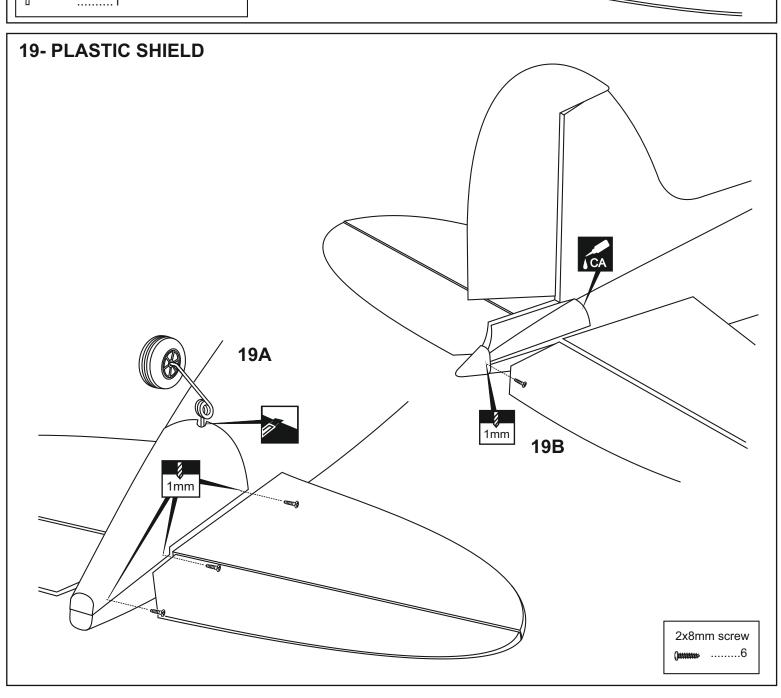


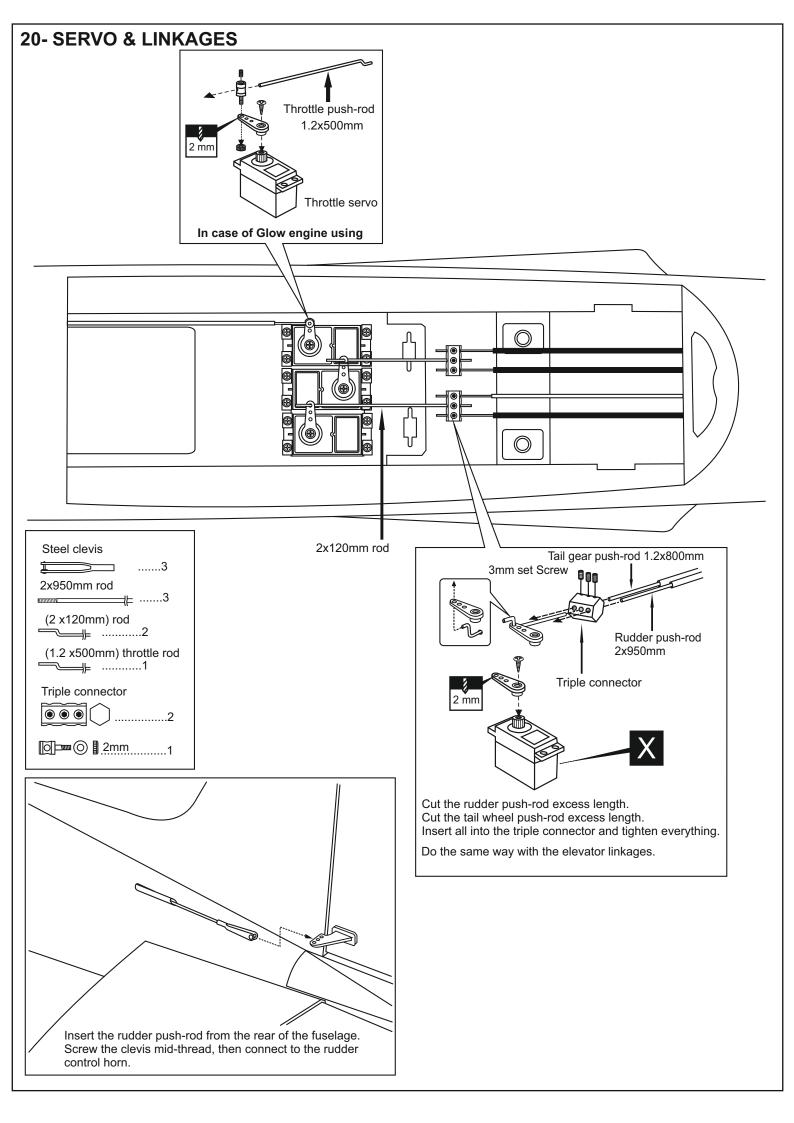


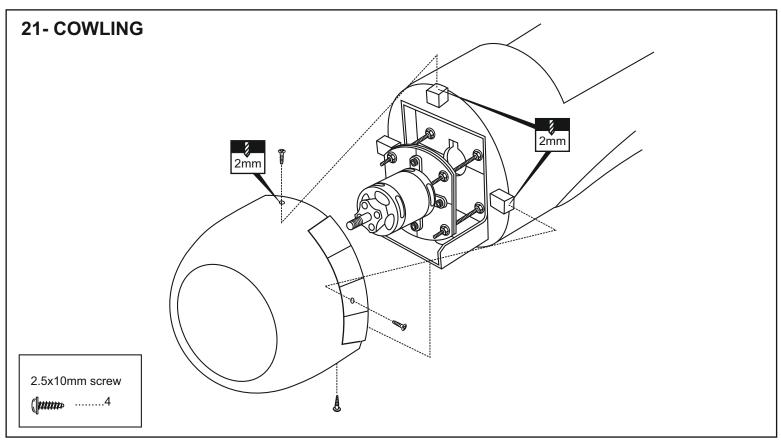


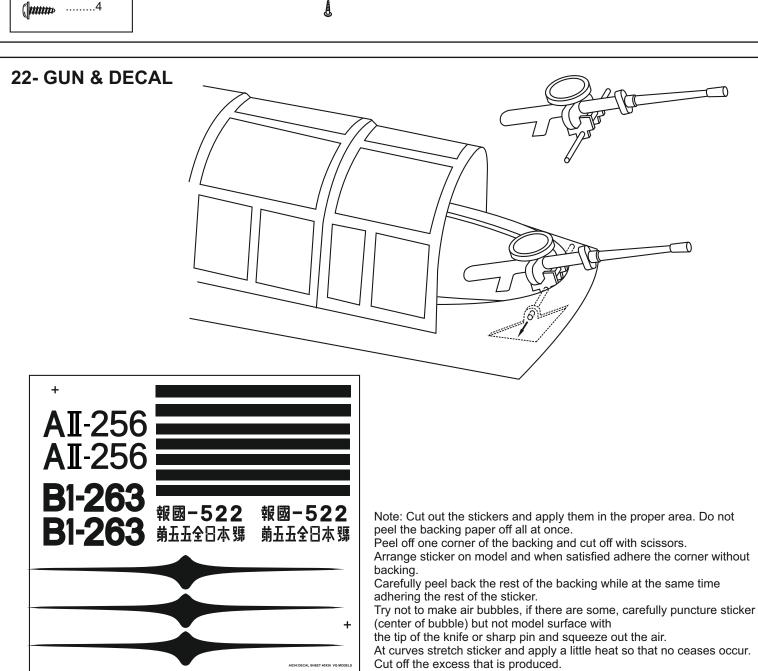


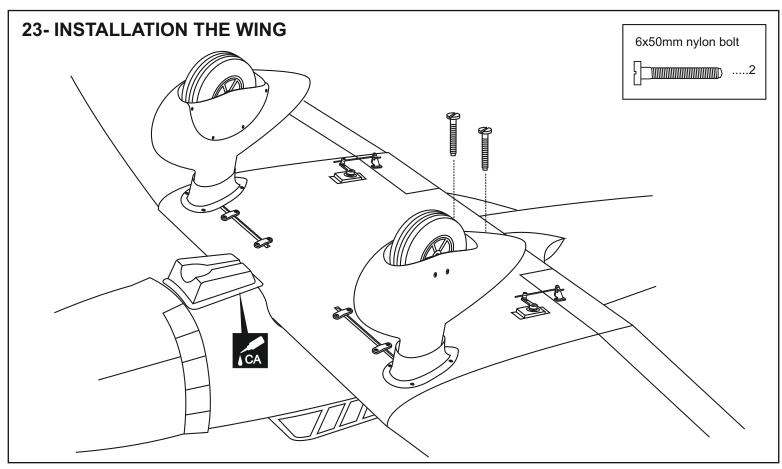


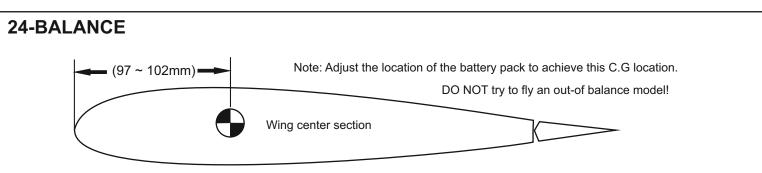




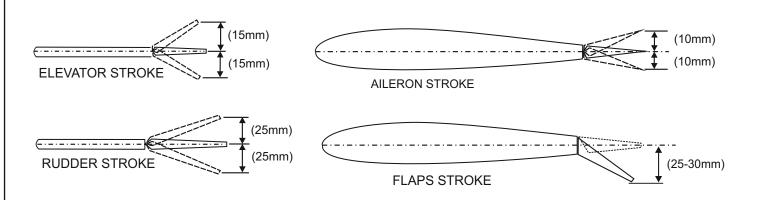








#### **25-CONTROL SURFACE**



Adjust the travel of the control surfaces to achieve the values stated in the diagrams.

These value will be suitable for average flight requirements. Adjust the values to suit your particular needs.

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