40 Class 2-cycle engine

52 Class 4-cycle engine

Or Electric equivalent

# P-39 Q/N AIRACOBRA

**BUILDING INSTRUCTIONS / MONTAGEANLEITUNG** 

**VQA09 / VQA091** 



#### RADIO CONTROLED ALMOST READY-TO-FLY ENGINE POWERED ALL BALSA PLANE

#### **SPECIFICATIONS**

Wingspan	1580mm
Length	1160mm
Flying weight	2500g
Electric Motor	650 Watt
Glow Engine	6,5cc 2T / 8,5cc 4-T
Radio	7 Channel / 7 Servos

#### **Technische Daten**

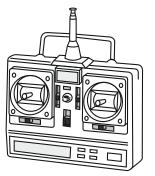
Spannweite 1580mm
Länge 1160mm
Fluggewicht 2500g
Elektroantrieb 650 Watt
Verbrennerantrieb 6,5cc 2T / 8,5cc 4T
Fernsteuerung 7 Kanal / 7 Servos



**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 Unterstützung, 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.

### **OPTIONAL ACCESSORIES**





for airplane with 7 mini servos

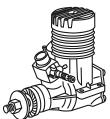
- .Motor control x1
- .Aileron x 2
- .Flap x 2
- .Elevator x 2
- .Rudder x1



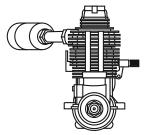
10.5x6 for .40 - 2 cycle engine - 2 cycle engine 11x6 for .46 - 4 cycle engine 11X7 for .52 13X8 for Electric motor.



Extension for ailerons, flaps, elevators, rudder servo.



.40-.45 - 2 cycle



.52-.60 - 4 cycle



G-46 HP Motor 5 cell 4500mAh. or equivalent.

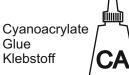


Silicone tube

## **GLUE** (Purchase separately)



Silicon sealer

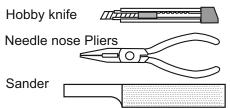




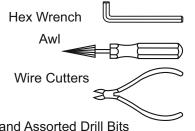
Epoxy Glue (5 minute type) Epoxy-Klebstoff (5min-Typ)

Epoxy Glue (30 minute type) Epoxy-Klebstoff (30min-Typ)

## TOLLS REQUIRED (Purchase separately)



Phillip screw driver Scissors



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

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 zu bekommen. Die Kanten können Sie mit einem Bügeleisen behandeln. Nicht zuviel Hitze anwenden!





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

Use epoxy glue



Take particular care here

Apply cyano glue



Hatched-in areas: remove covering film carefully



Assemble left and right sides the same way.



Check during assembly that these parts move freely, without binding



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



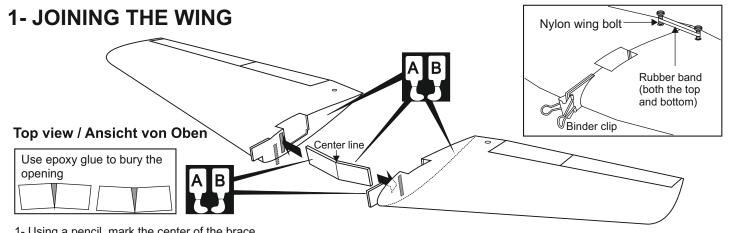
Nicht enthalten. Teile müssen separat gekauft werden.

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

3.0mm = 1/8" 10mm = 13/32" 25mm = 1"1.0mm = 3/64<sup>2</sup> 4.0mm = 5/32" 12mm = 15/32" 30mm = 1-3/16" 1.5mm = 1/16" 5.0mm = 13/64" 15mm = 19/32" 45mm = 1-51/64" 6.0mm = 15/64" 2.5mm = 3/32"

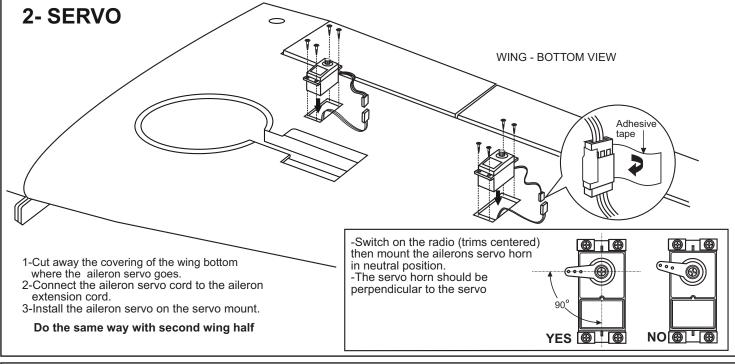
2.0mm = 5/64"

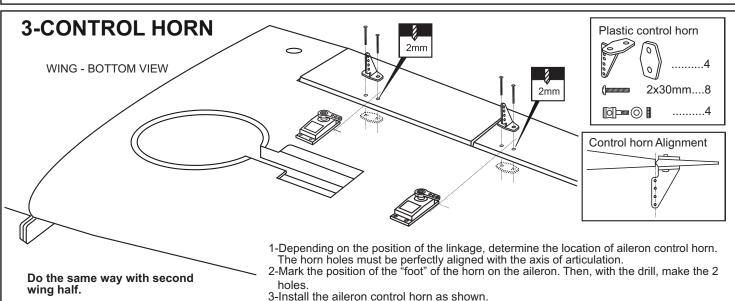
20mm = 51/64"

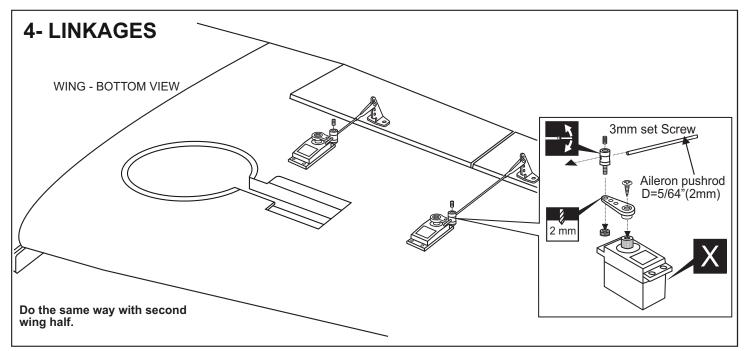


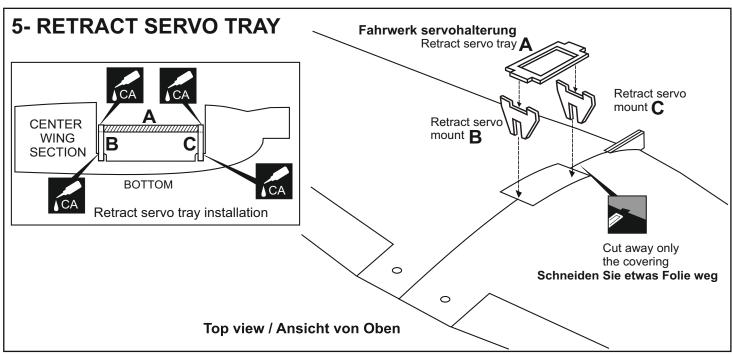
- 1- Using a pencil, mark the center of the brace.
- 2- Trial fit the wing joiner into one of the wing panels. It should insert smoothly up to the center line marked above.
- 3- Slide the other wing half onto the dihedral brace until the wing panel meet. If the fit is over tight, it may be necessary to lightly sand the dihedral brace.
- 4- Check for the correct dihedral angle.
- 5- Mix up some 30 minute epoxy and apply a generous amount of epoxy into the wing joiner cavity of one wing half.
- 6- Coat one half of the dihedral brace with epoxy up to the center line. Install the epoxy-coated side of the dihedral brace into the wing joiner cavity up to the center line, marking sure that the "V" of the dihedral brace is positioned correctly
- 7- Do the same way with the other wing half.
- 8- Carefully slide the wing halves together, ensuring that they are accurately aligned. Firmly press the two halves together, allowing the excess epoxy to run out. Clean off the excess epoxy with paper towel and kerosene.

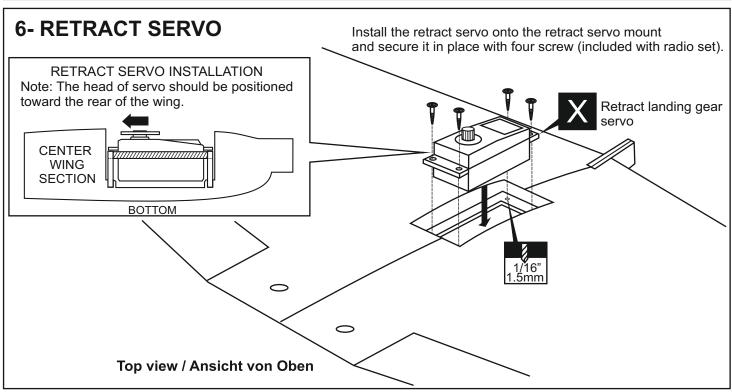
IMPORTANT: Please do not clean off the excess epoxy on the wing with strong solvent or pure alcohol, only use kerosene to keep the colour of your model not fade.

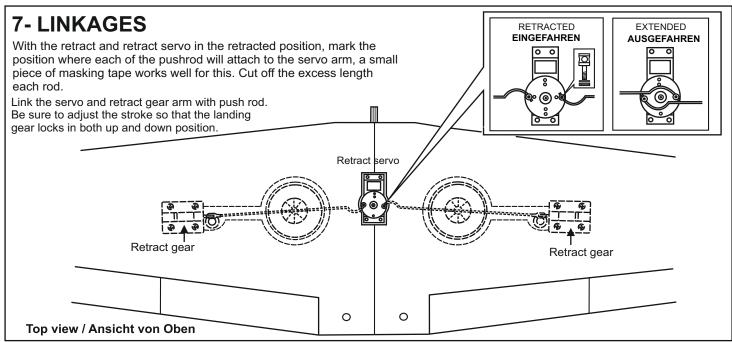


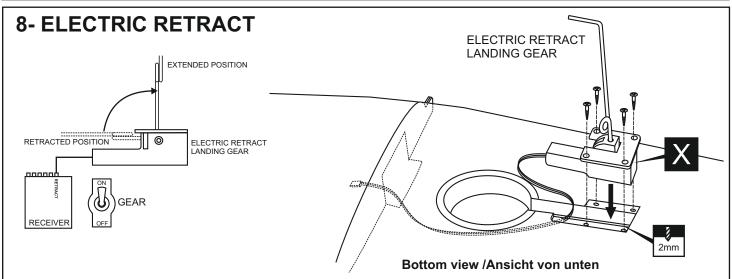


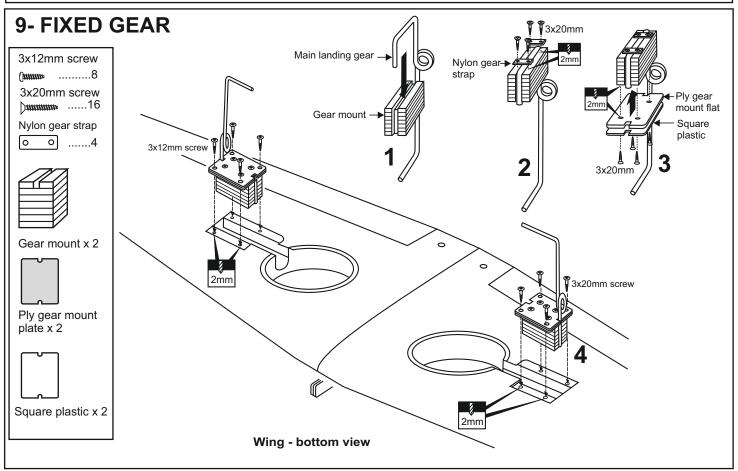


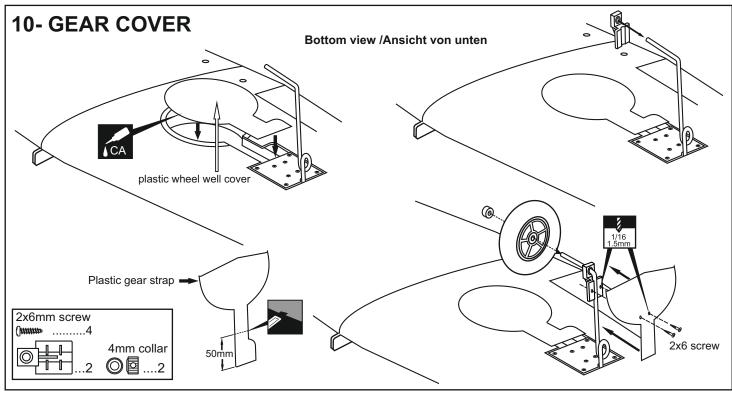


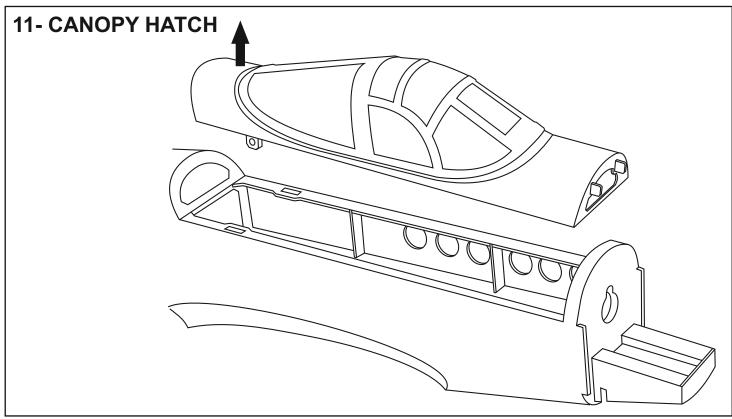


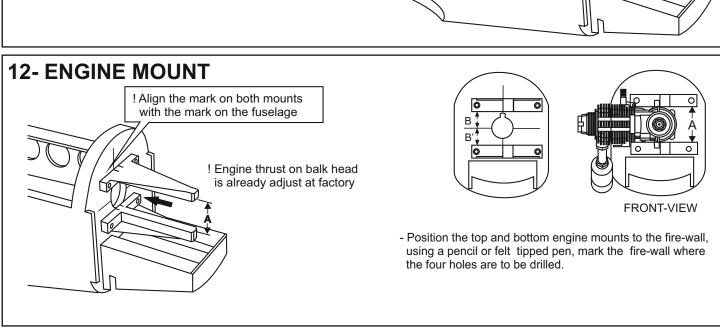




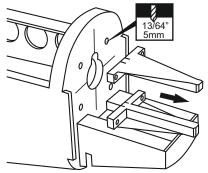




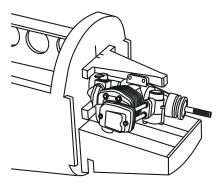




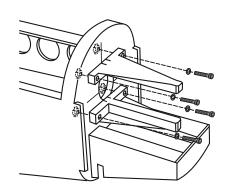
## **13- ENGINE MOUNT**



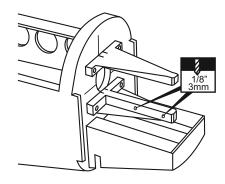
- Remove the engine mounts and drill a 13/64"(5mm) hole through the fire-wall at each of the four marks marked.
- Attach the four blind-nut to the fire-wall as show



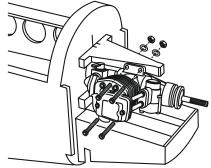
- Position the engine on to the engine mounts so the distance from the prop hub to the fire wall is 4.6"(118mm).
- Mark the engine mounting plate where the four holes are to be drilled.



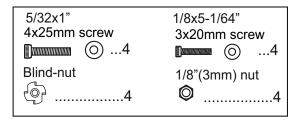
- Reposition the engine mounts on to the fire-wall and secure them with four 4x25mm screw

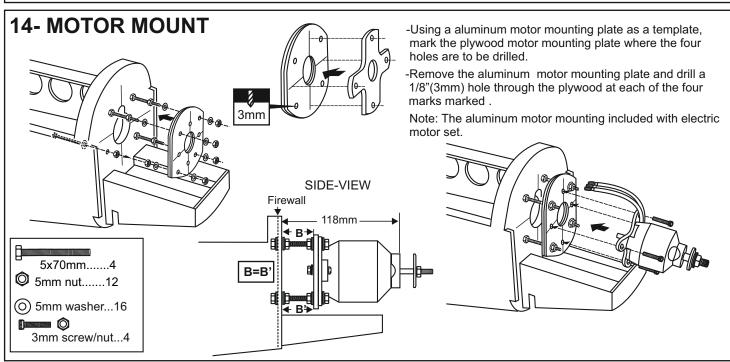


-Remove the engine and drill a 1/8" (3mm) holes through the beam at each of the four marks make before.



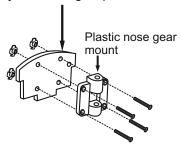
- Reposition the engine on the engine mount beams, aligning it with the holes. Secure the engine to the engine mount using four 1/8x51/64"(3x25mm) screws.



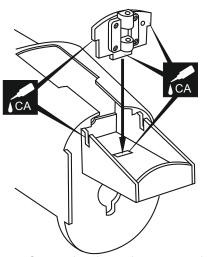


# 15- NOSE GEAR

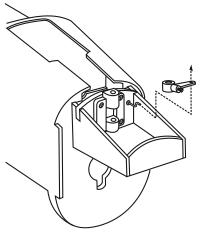
Plywood nose gear plate



Attach the plastic nose gear mount to the plywood nose gear plate using four 3x20mm screws and blind nuts.

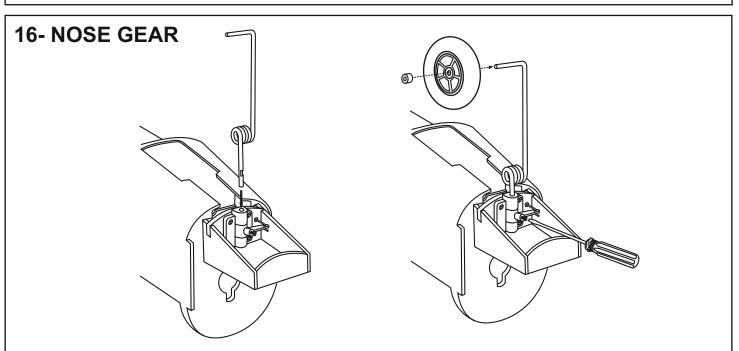


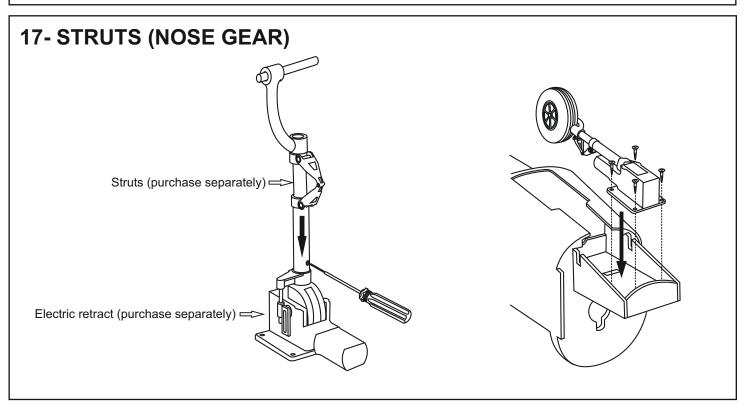
Secure the plywood nose gear plate in place using CA glue.

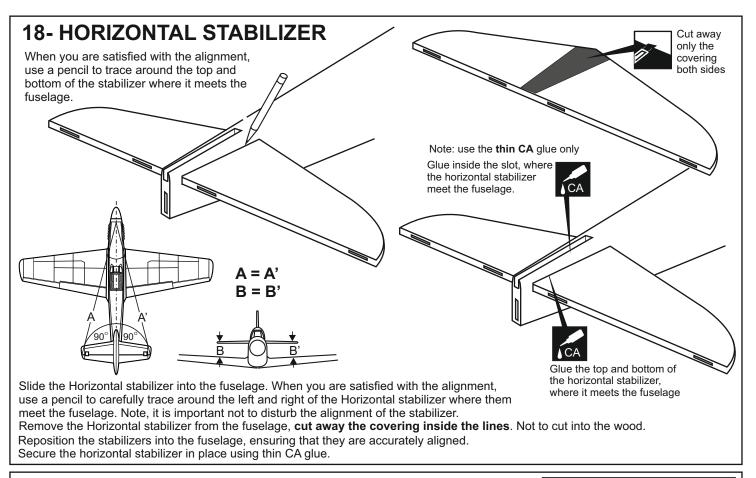


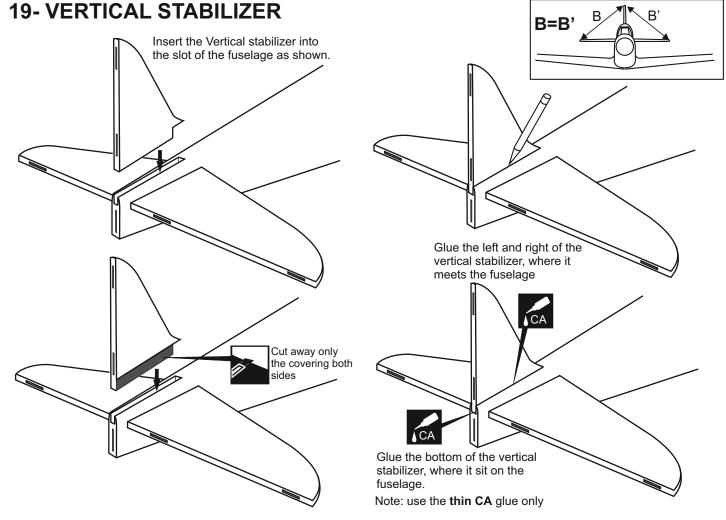
Insert the nose gear pushrod into the fuselage with the "Z" bend in front.

Insert the "Z" bend into the hole on the nose gear control horn.





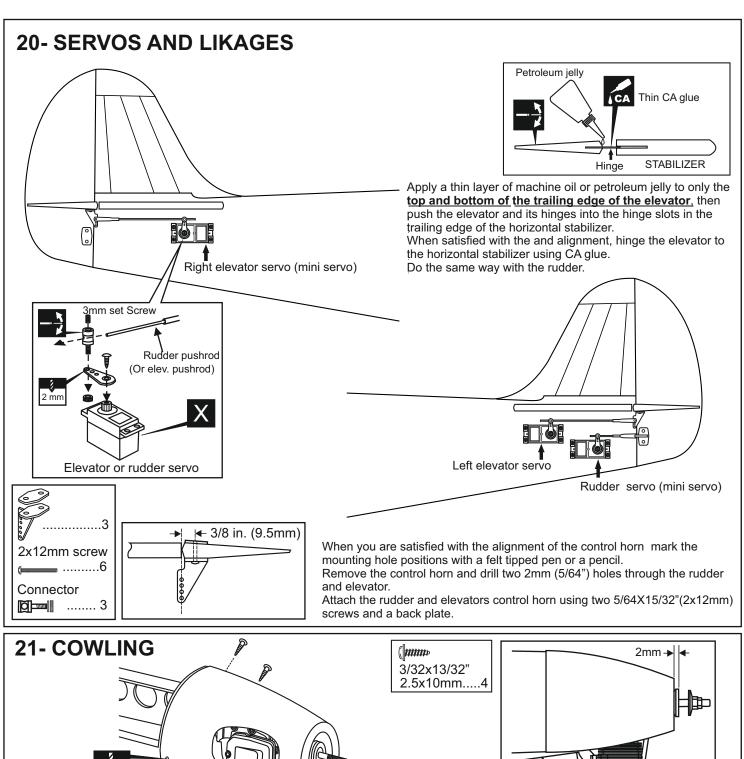


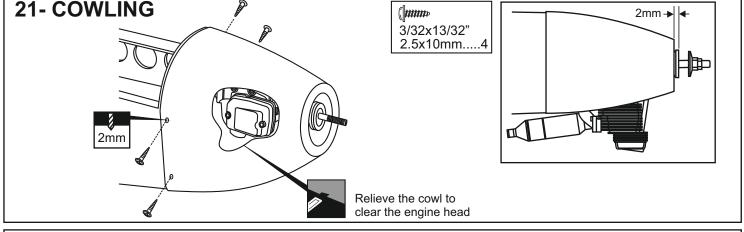


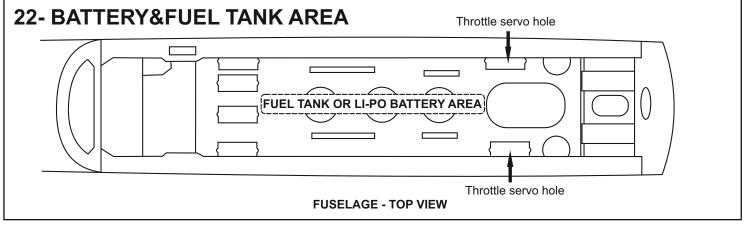
When you are satisfied with the alignment, use a pencil to carefully trace around the left and right of the Vertical stabilizer where it meets the fuselage. Note, it is important not to disturb the alignment of the stabilizer.

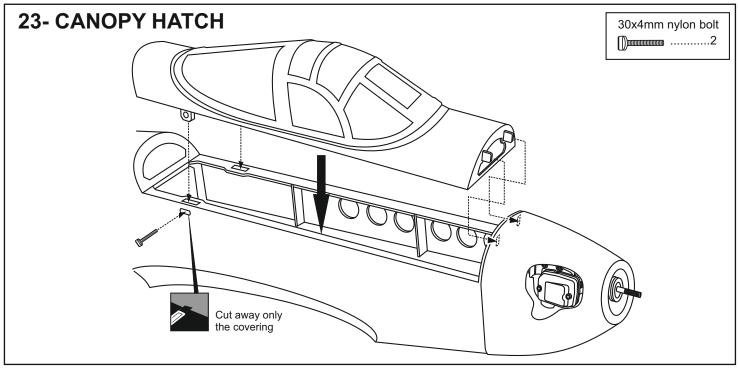
Remove the vertical stabilizer from the fuselage. Cut away the covering inside the lines. Not to cut into the wood.

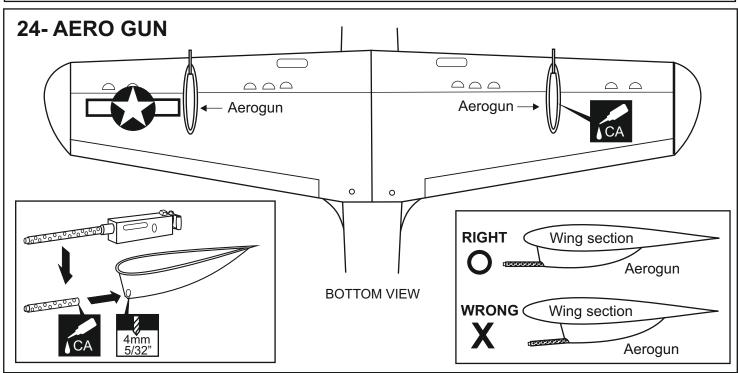
Reposition the stabilizers onto the fuselage, ensuring that they are accurately aligned. Secure the horizontal stabilizer in place using thin CA glue.

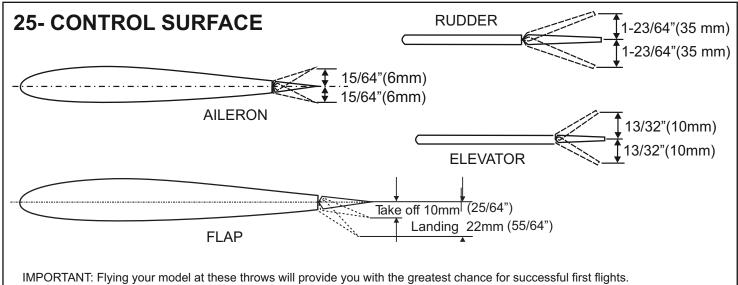




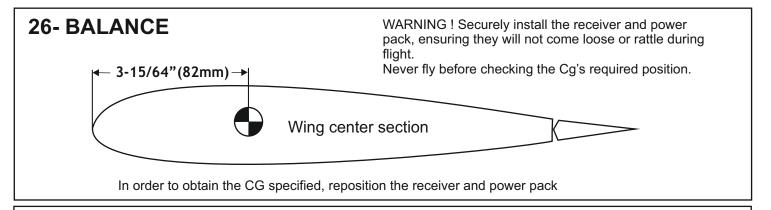








IMPORTANT: Flying your model at these throws will provide you with the greatest chance for successful first flights. If, after you have become accustomed to the way the P-39 flies, you would like to change the throws to suit your taste that is fine. However, too much control throw could make the model difficult to control, so remember, "more is not always better".



## 27-DECALS

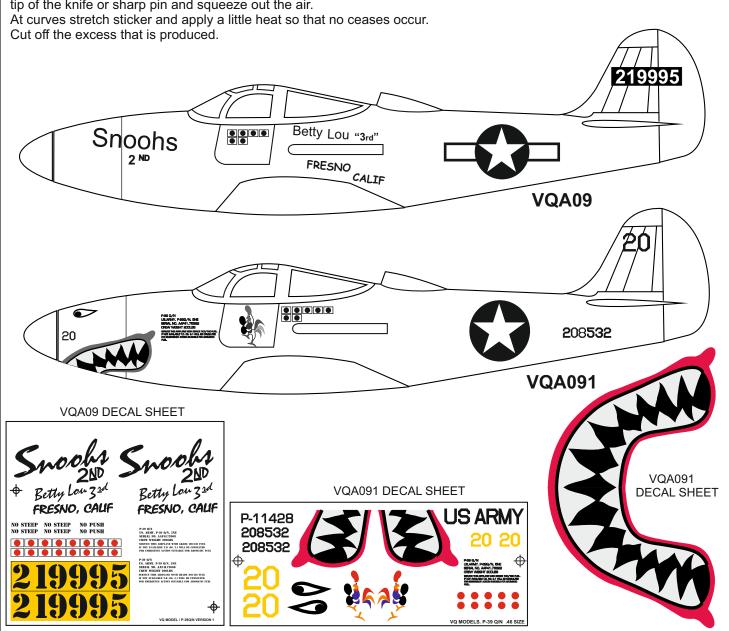
Note: Cut out the stickers and apply them in the proper area. Do not peel the backing paper off all at once.

Peel off one corner of the backing and cut off with scissors.

Arrange sticker on model and when satisfied adhere the corner without backing.

Carefully peel back the rest of the backing while at the same time adhering the rest of the sticker.

Try not to make air bubbles, if there are some, carefully puncture sticker (center of bubble) but not model surface with the tip of the knife or sharp pin and squeeze out the air.



**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.

#### **WARNING**

Do not put in a large-than recommended engine. A bigger engine does not necessarily mean better performance.