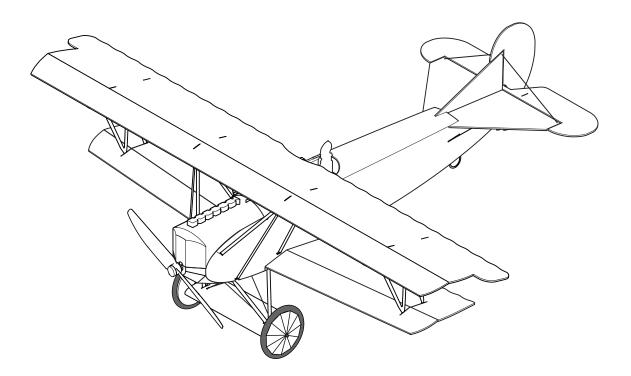


# **ASSEMBLY GUIDE**





Version 3



Introduction Thank you for purchasing this Microaces Kit. Designed using innovative ideas, advanced materials and detailed aircraft illustrations, this 1/24th scale aircraft will bring you hours of building enjoyment and many more exciting flying hours too: Please take your time to familiarise yourself with these instructions as the aircraft assembles in a very unique way, following a sequence of steps that should be adhered too to ensure a satisfactory and flyable model. Safety It is extremely important to us that you and those around you remain safe while building and flying Microaces kits. Please take note of the following notices of safety. Microaces Aero kits contain parts and packaging **unsuitable** for handling by small children. Please ensure that children under the age of 6 years are prevented from handling the component parts or packaging of this kit. Although the resulting model is lightweight, we DON'T recommend that you fly it near or over others where there is a danger of striking someone. We DO recommend that the maiden flight is performed over long grass in calm weather away from others. Assembly Read all the instructions carefully before starting assembly. It is important to use the recommended glues or an equivalent with similar properties. Foam parts must be glued with a foam safe cement or permanent damage can result to components. Ensure your knife has a fresh or sharp blade installed to ensure a clean cut. Microaces warranties that this kit is supplied with all components present and that Warranty

Arranty Microaces warranties that this kit is supplied with all components present and that those components are free from cosmetic or structural damage to an extent that would impair the assembly of the kit, alter the aesthetics of the built model and/or the flight performance of the resulting model. If any parts are missing or damaged please contact us via email at: support@microaces.com

Key

Image: Note (Information)Image: AttentionPotPart NumberImage: Do Not GlueImage: Ontact Adhesive (Foam Safe)Image: Ontact Adhesive (Foam Adhesive





# Sheet Parts1 x 2mm Laser cut Foam airframe<br/>1 x 1mm printed & laser cut Foam fuselage<br/>1 x 1mm printed & laser cut Foam flight surfaces<br/>1 x 200 micron printed & laser cut polypropylene

1 x polyester sticker sheet

#### **Loose Parts**

- 1 x 0.8mm laser cut plywood motor mount
  - 2 x neoprene tyres
  - 6 x 3mmØ x 1mm noedymium magnets
  - 1 x 100mm x 5mmØ plastic tube
  - 1 x 104mm x 0.4mm x 1mm carbon fibre strip
  - 1 x 500mm x 0.4mm x 1mm carbon fibre strip
  - 1 x 86mm x 1mmØ carbon fibre rod (Axle)
  - 1 x piano wire elevator control rod
  - 1 x piano wire rudder control rod
  - 1 x profile pilot figure
  - 1 x Rigging wire

#### RECOMMENDED TOOLS/GLUES

Knife or scalpel with fresh blade

Steel rule or straight edge

Sanding stick or sand paper (180 grit recommended)

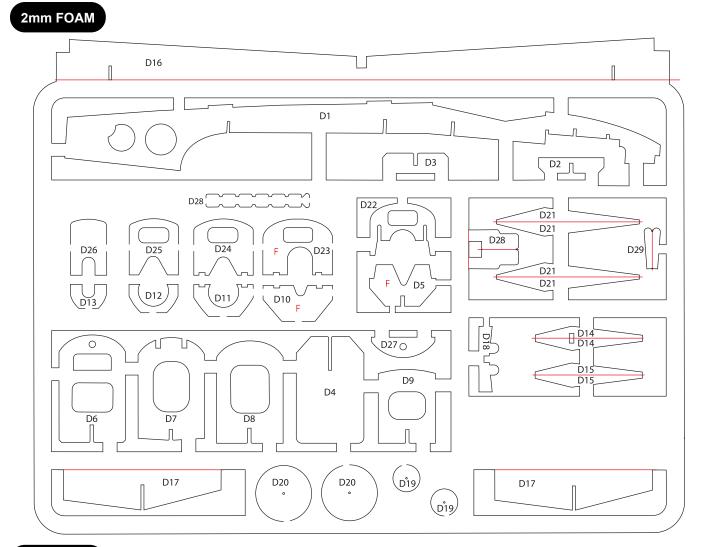
Tweezers

Needle nose pliers

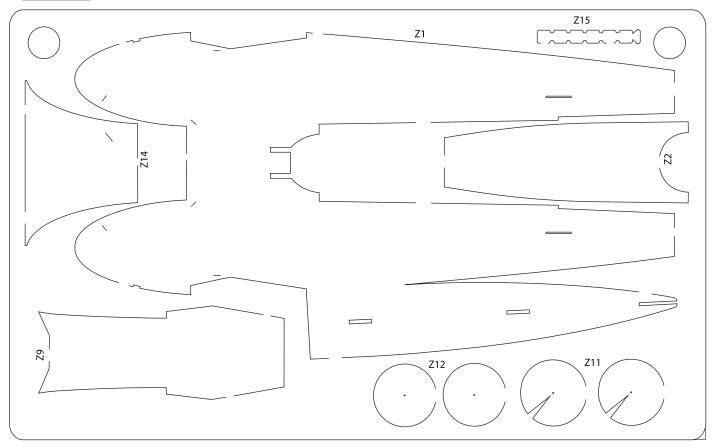
Deluxe Materials Foam2Foam adhesive

Aliphatic resin or foam safe cyano glue (for rigging & re-inforcement)



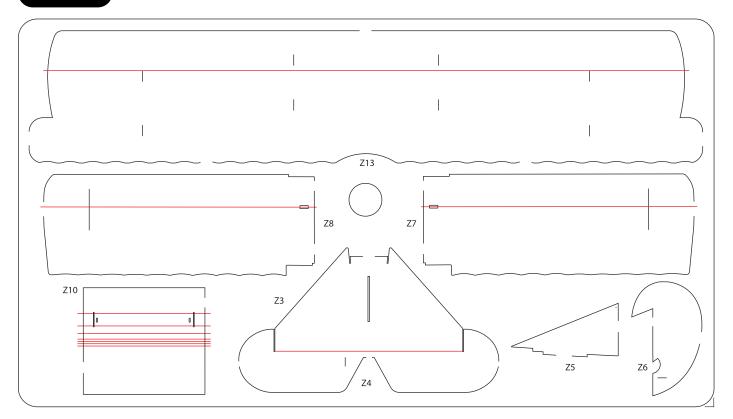


# 1mm FOAM

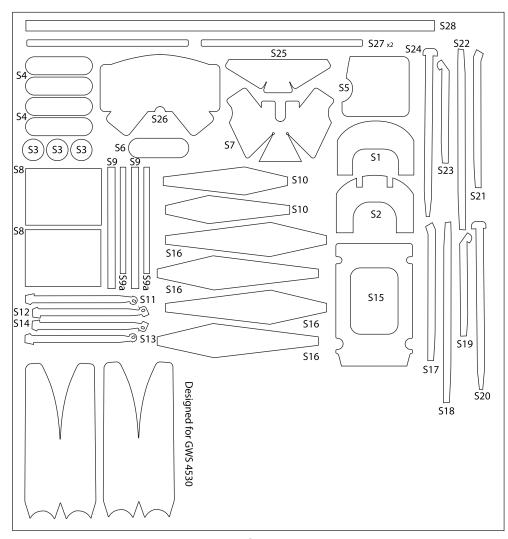




1mm FOAM

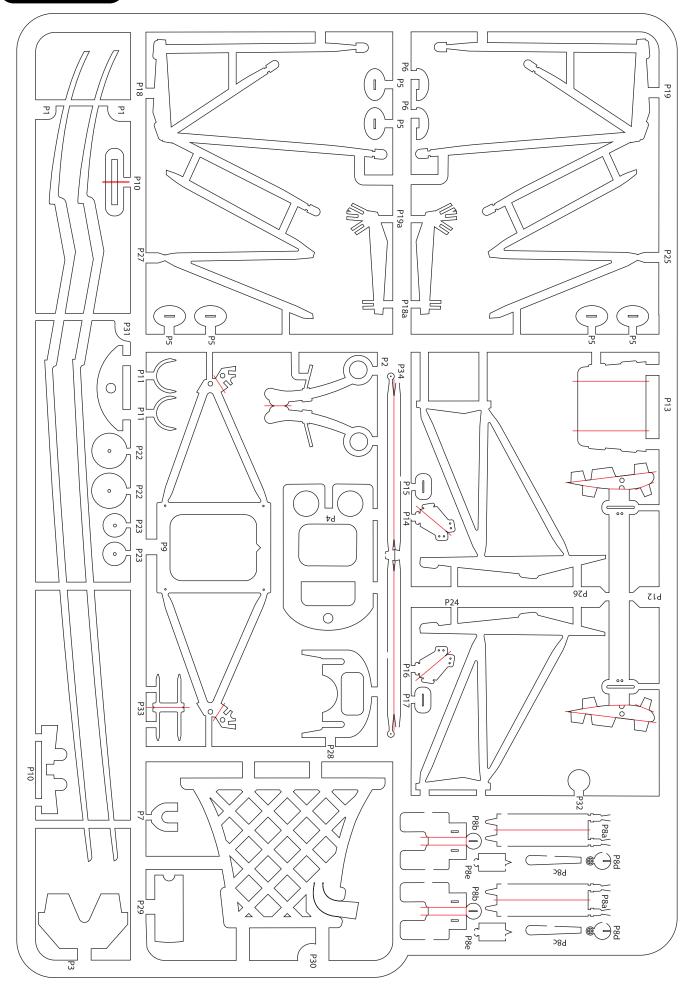


# STICKERS

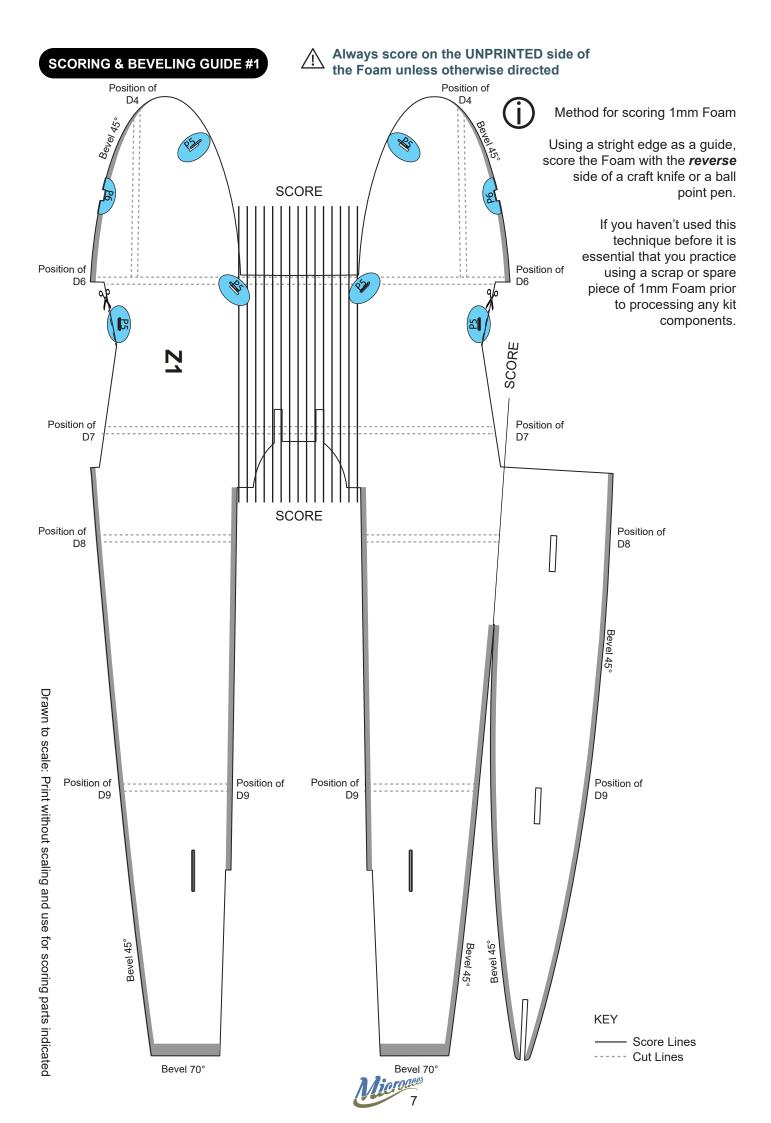




# PLASTIC PARTS







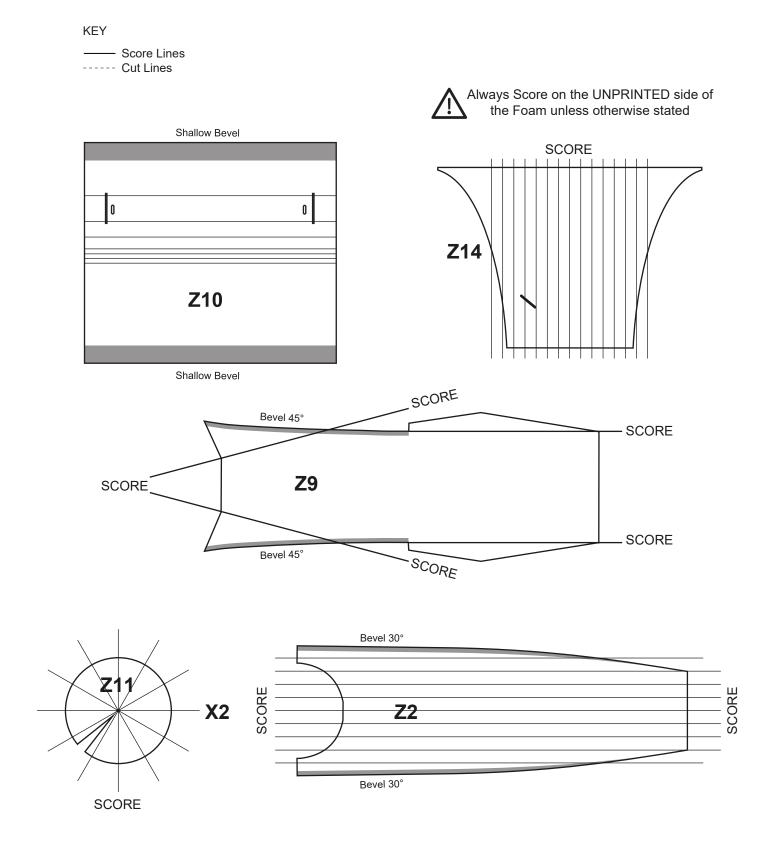
# SCORING & BEVELING GUIDE #2



#### Method for scoring 1mm Foam

Using a stright edge as a guide, score the Foam with the *reverse* side of a craft knife or a ball point pen.

If you haven't used this technique before it is essential that you practice using a scrap or spare piece of 1mm Foam prior to processing any kit components.



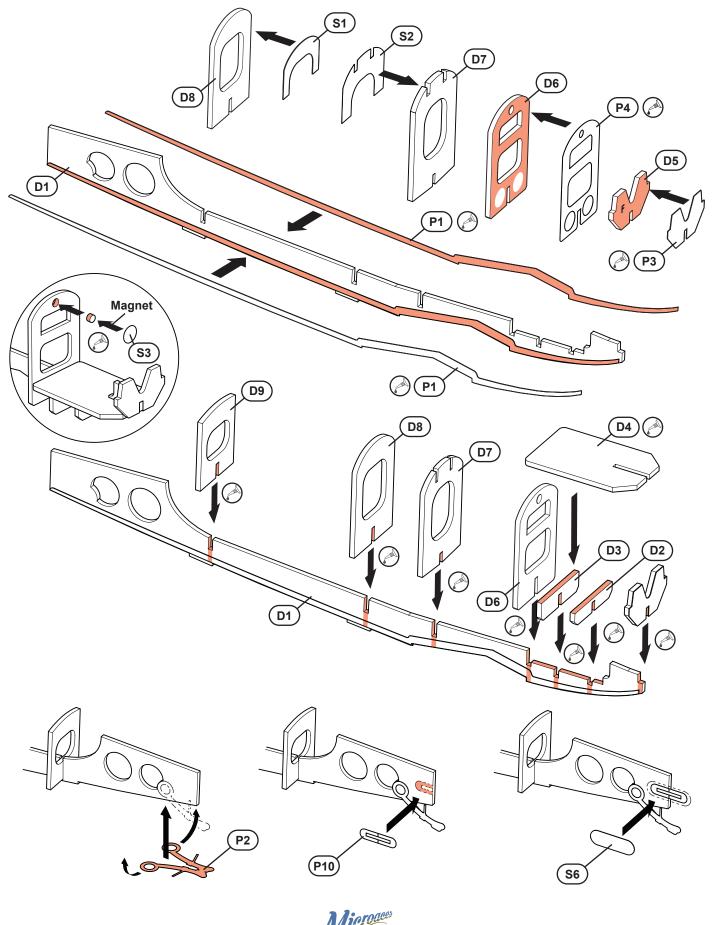


# STAGE 1 AIRFRAME



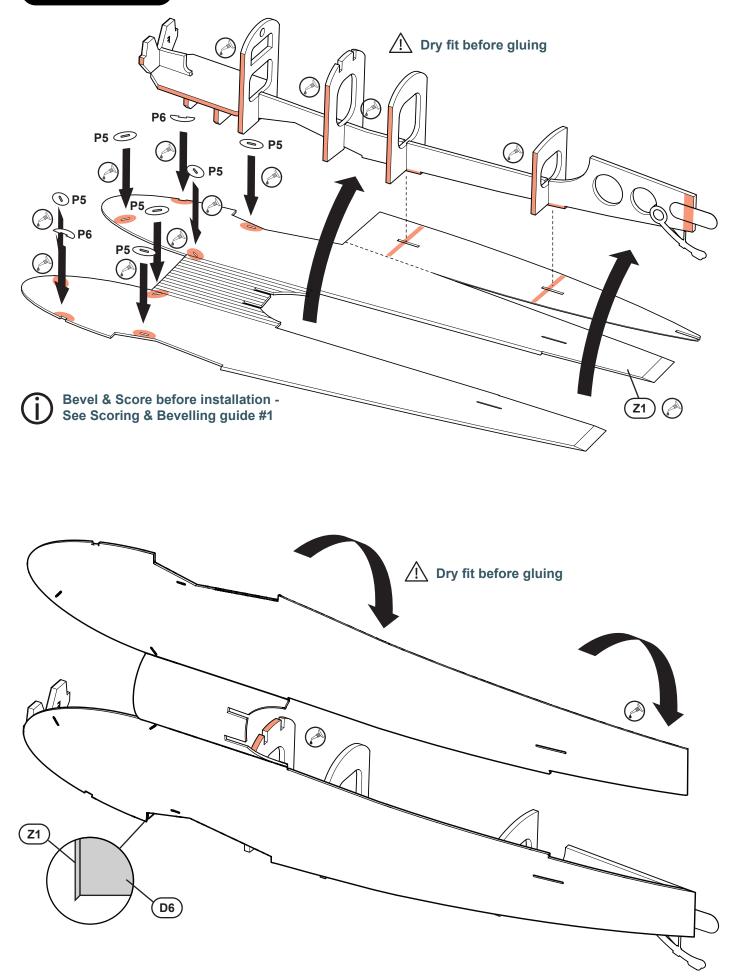
The plastic parts used in the airframe are there to increase the strength of the structure in vital areas whilst still providing some flexibility.

Apply a thin layer of adhesive to the plastic parts and attach immediately to allow some wiggle time to get the parts lined up. Set aside to cure for 30 mins or more.

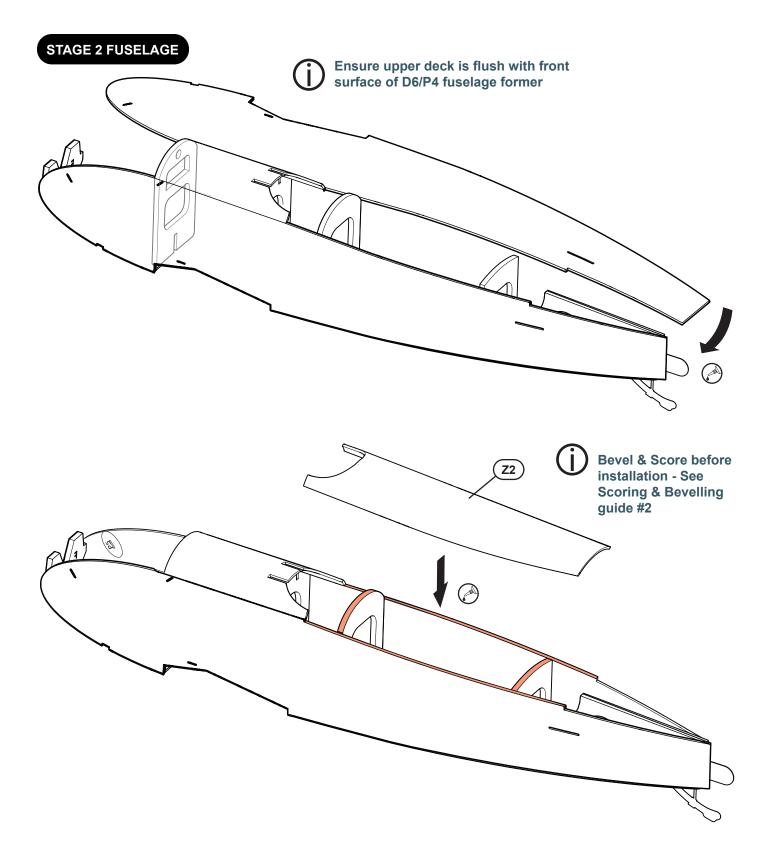


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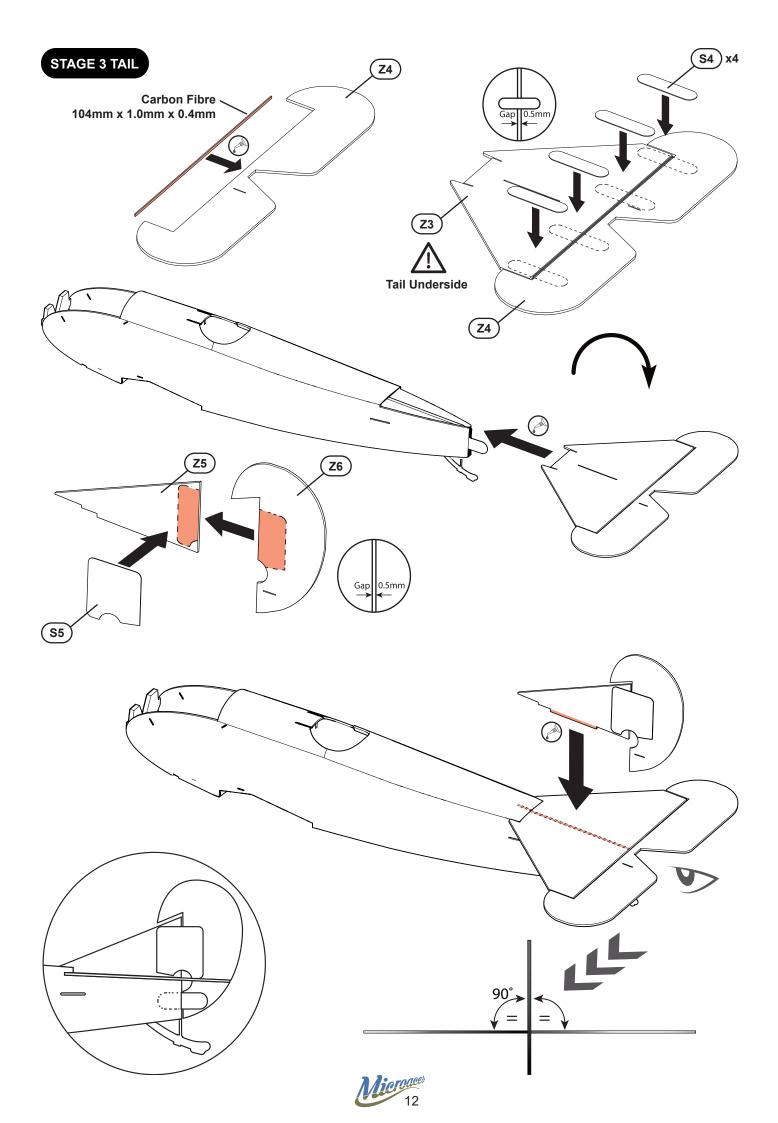
# STAGE 2 FUSELAGE



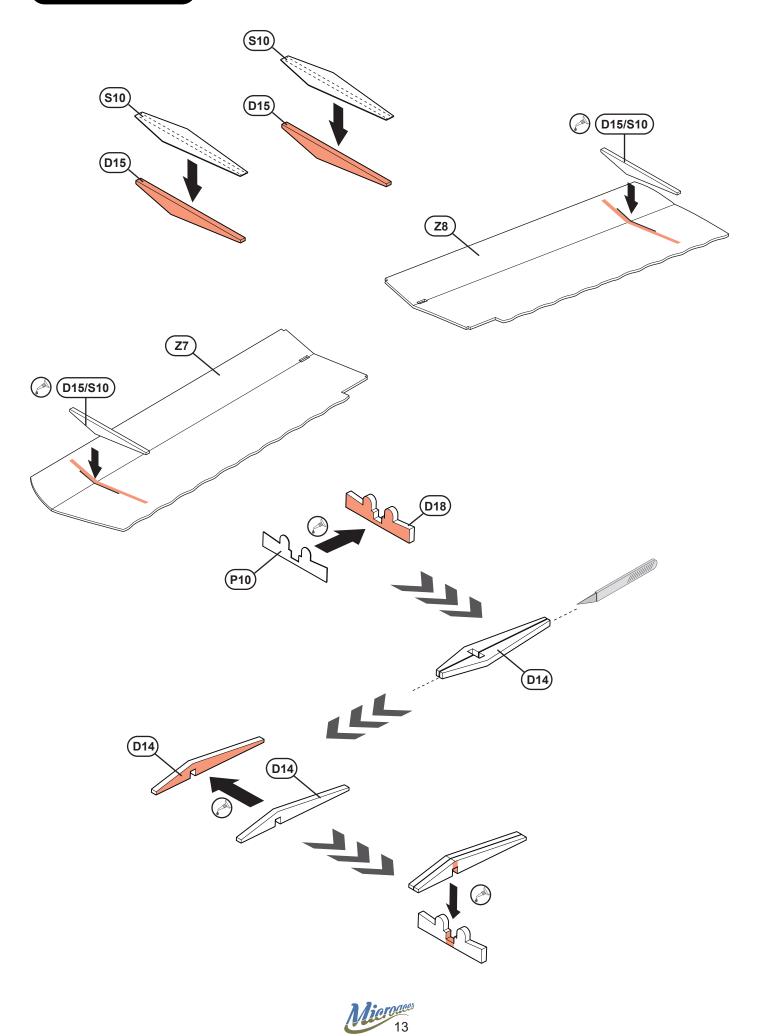


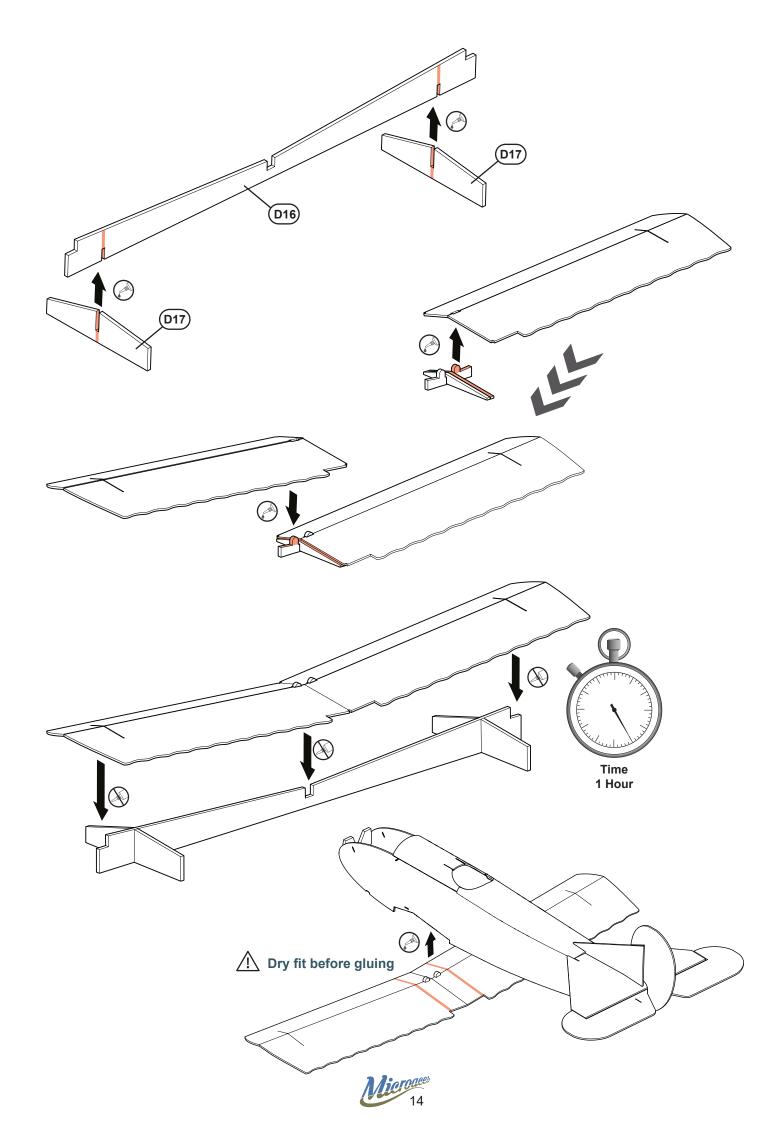


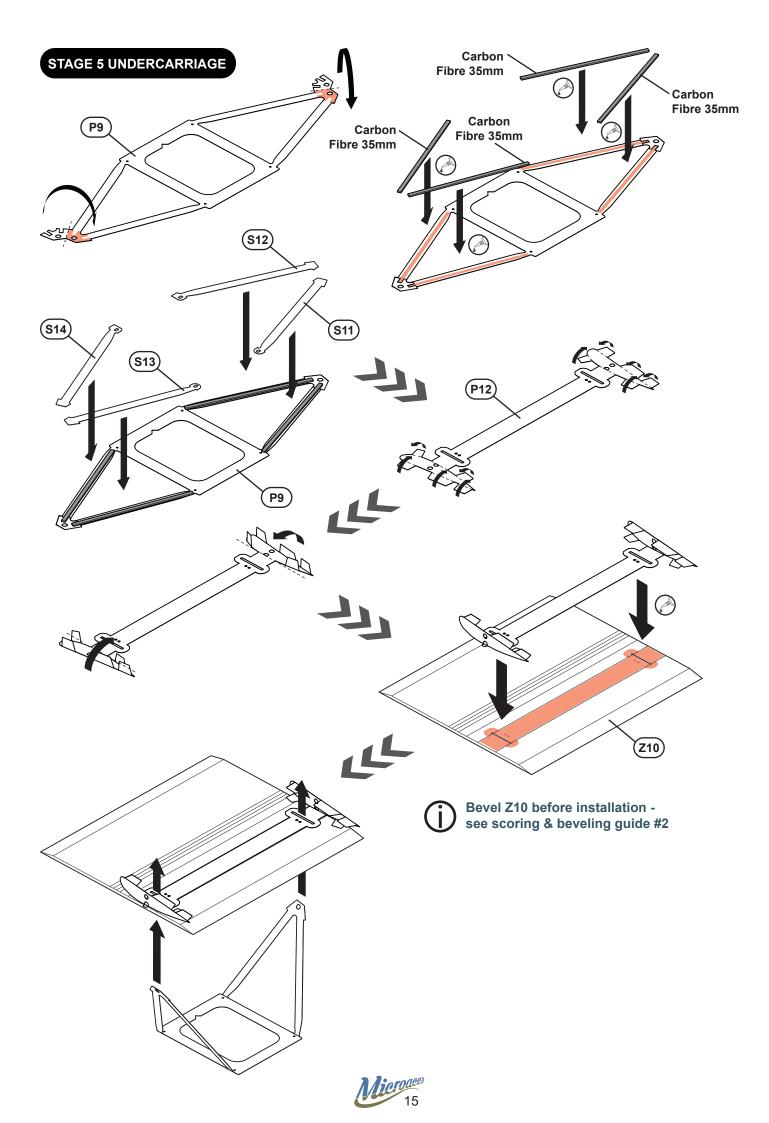






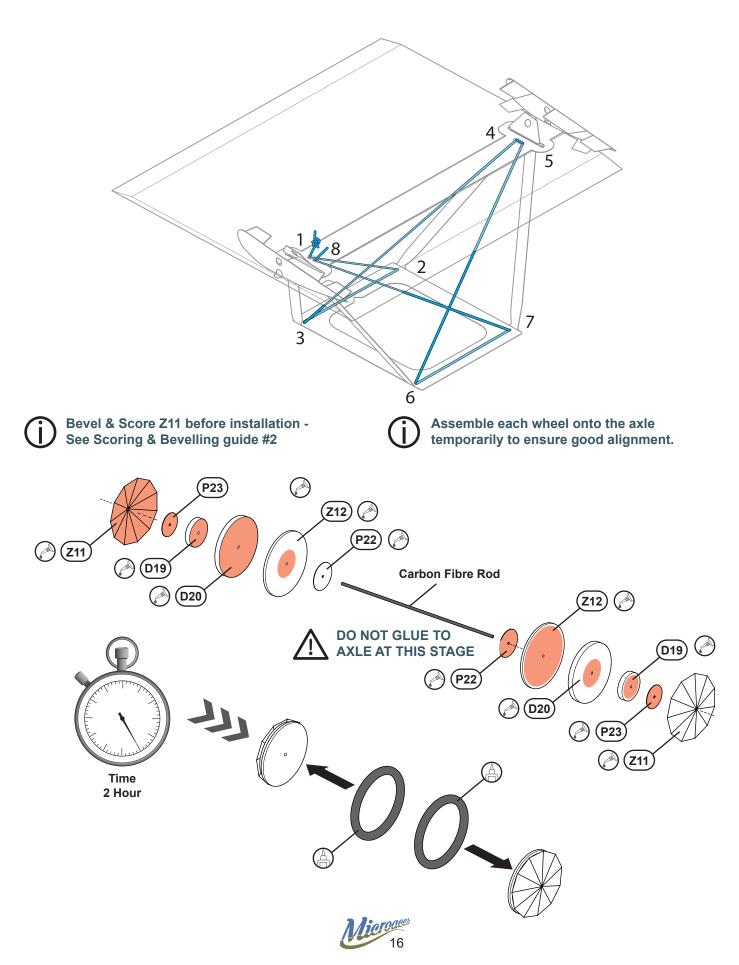


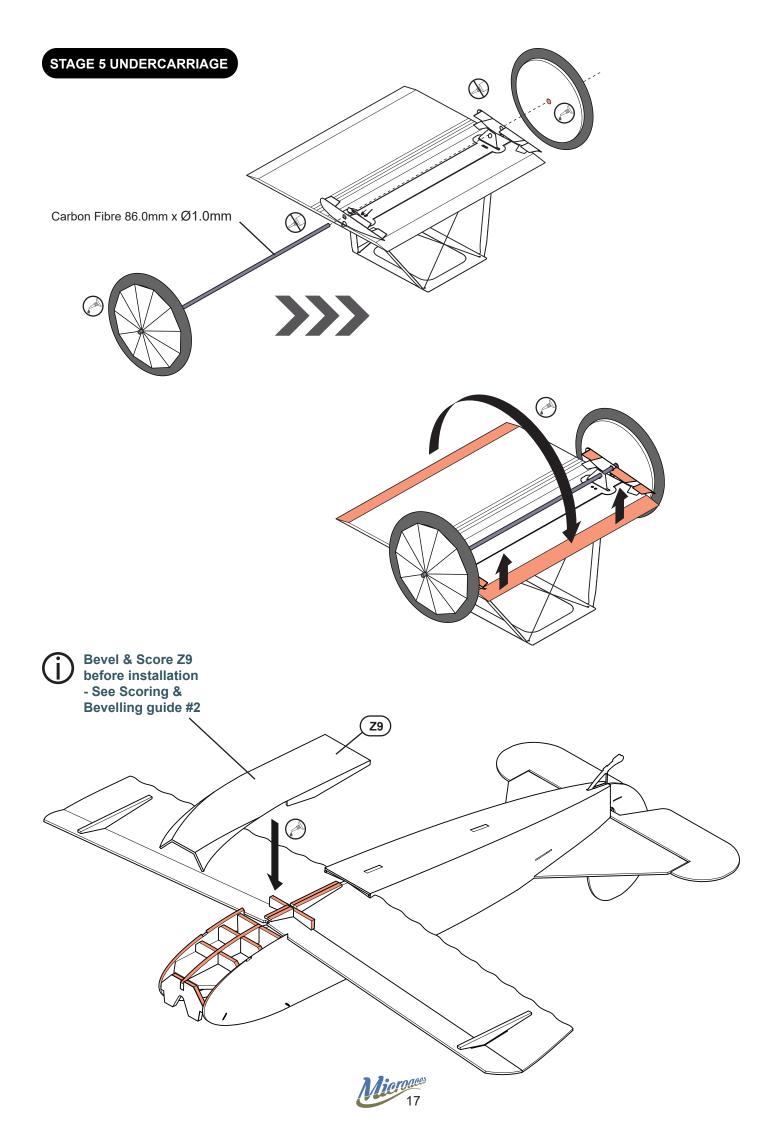


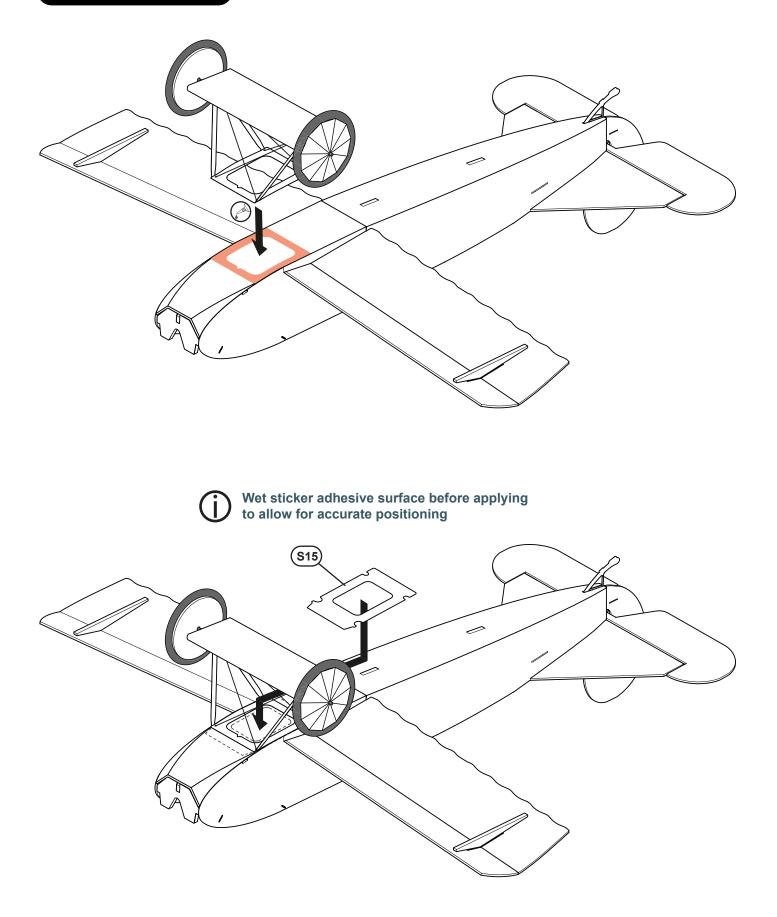


The undercarriage rigging on this model is functional and reduces the side movement of the undercarriage legs.

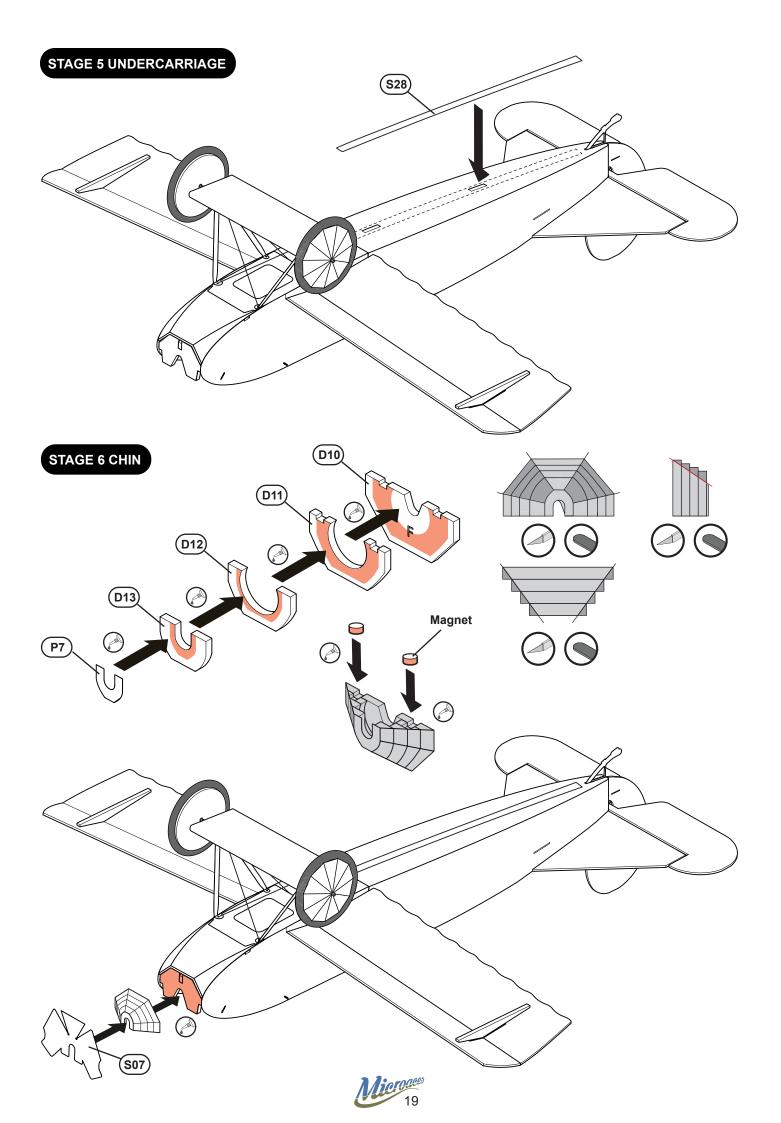
Using the pre-cut holes, thread the supplied rigging wire with a knotted end as shown. Pull tight, secure and glue the end in position.

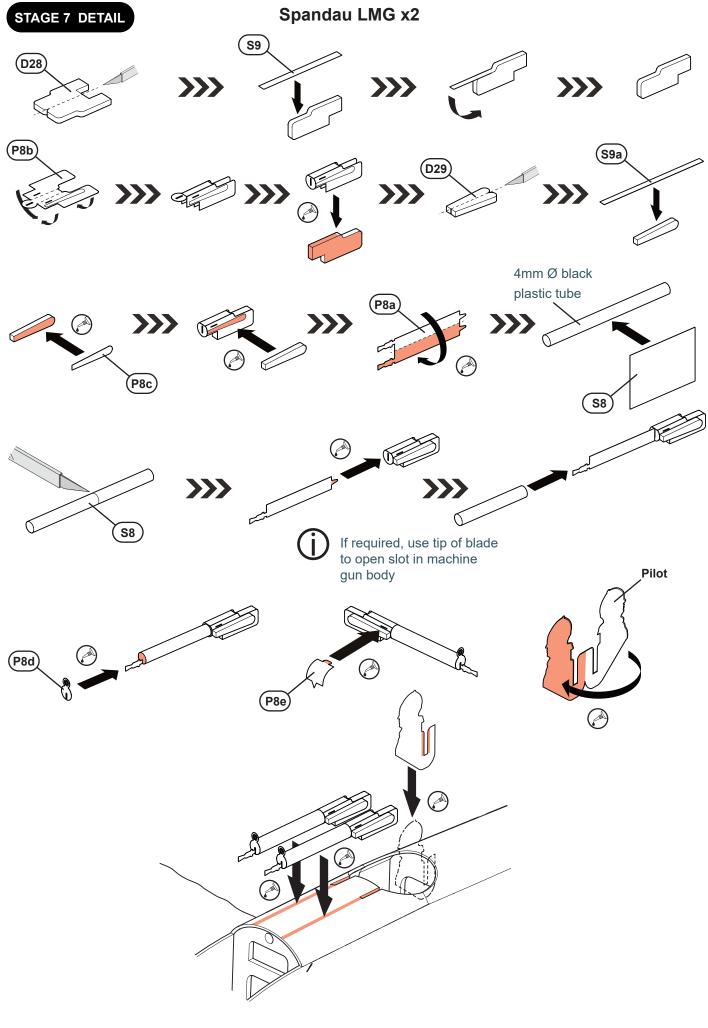




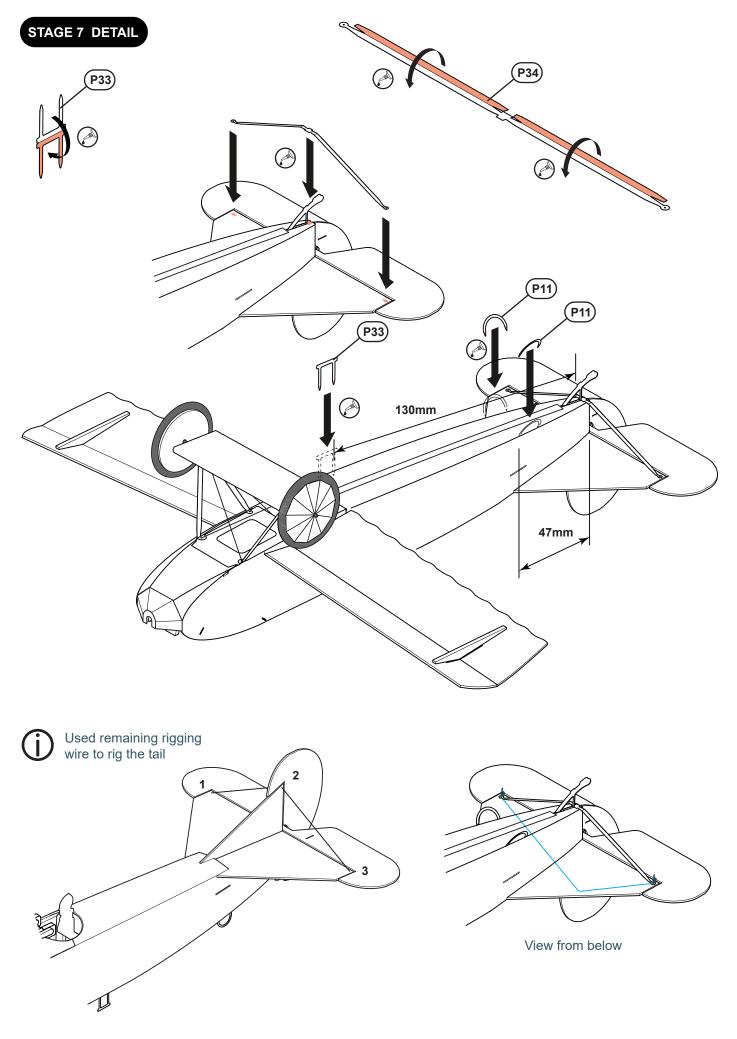




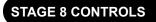


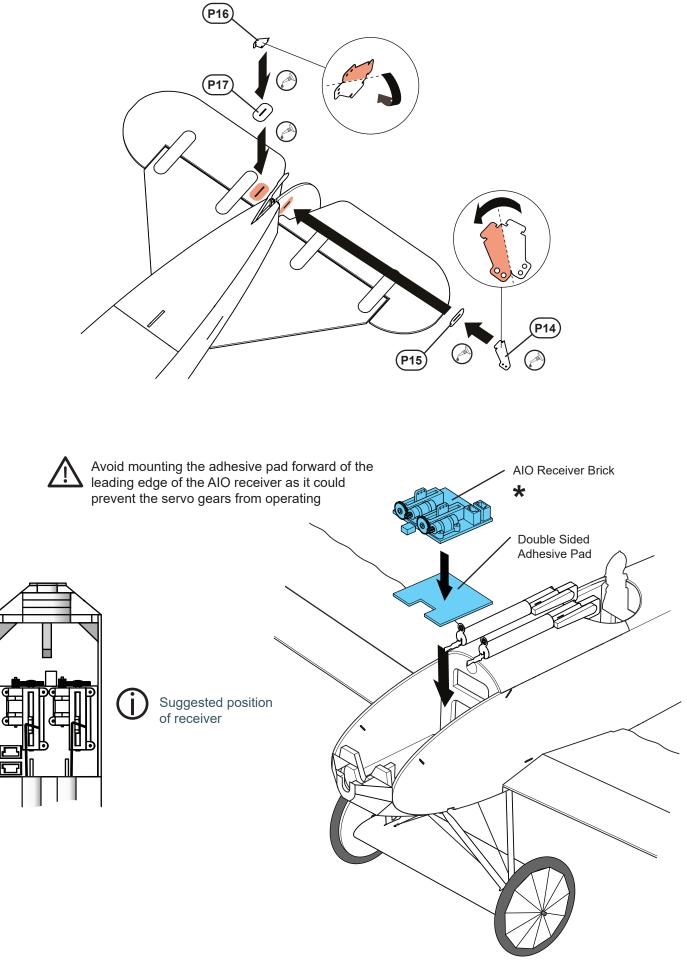






Microaces 21



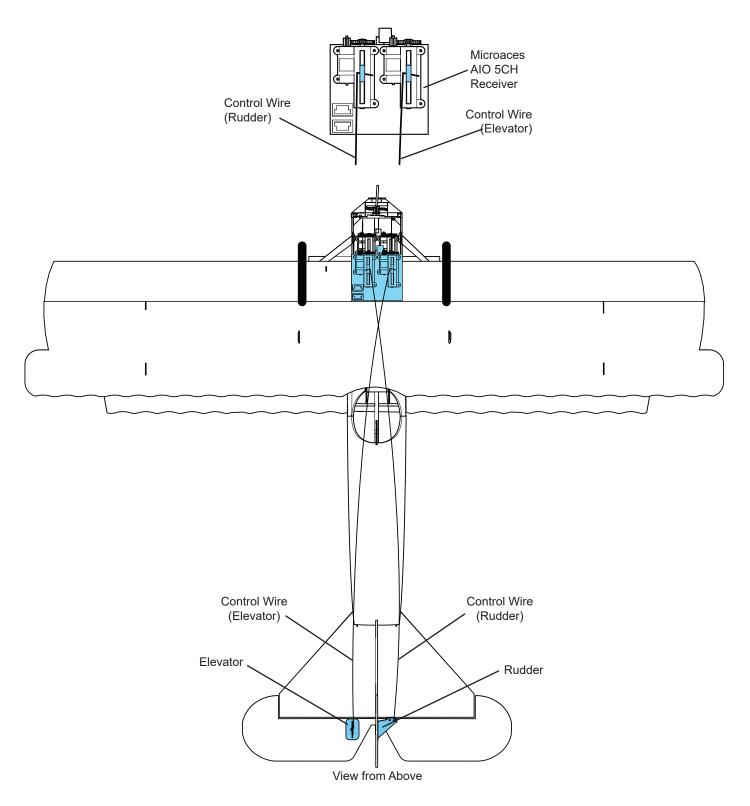




★ Not included in 'kit only' kit

#### **STAGE 8 CONTROLS**

Insert individual control wire from the rear and attach to appropriate control horn. Set control surface to neutral then, using slim or needle nose pliers, bend the end of the control wire at the point it will need to attach to the servo arm. Un-hook the control wire from the control horn, pull out of the fuselage and complete the hook bend for the servo arm. Trim hook to 4mm in length.

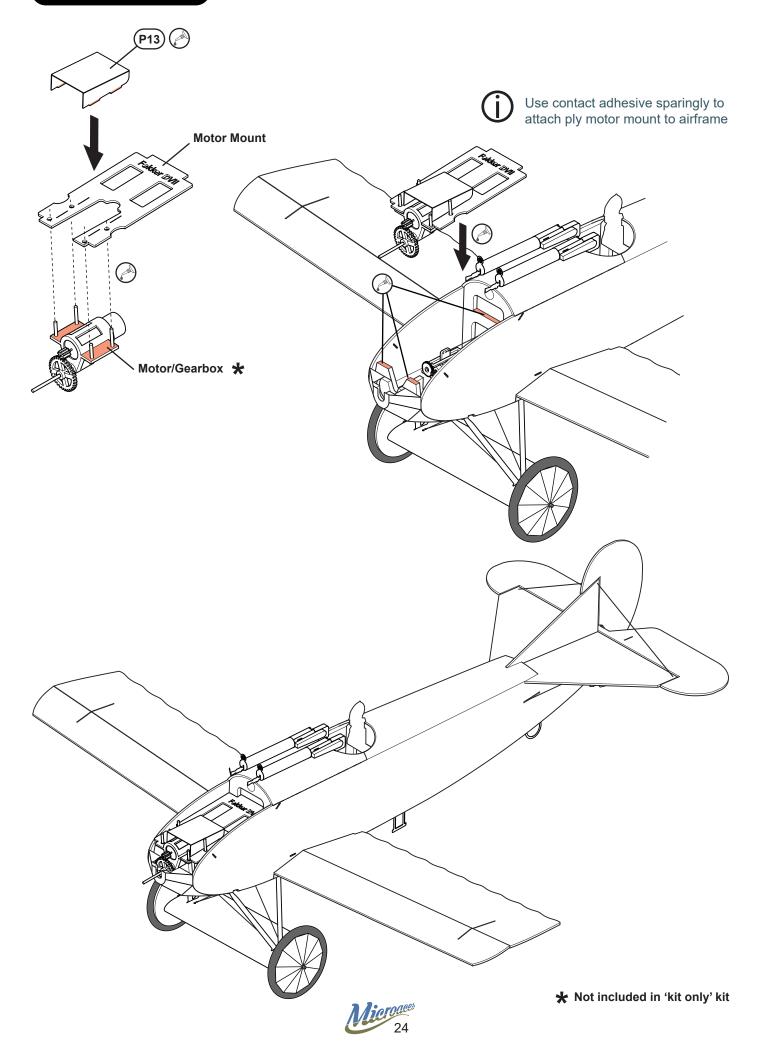


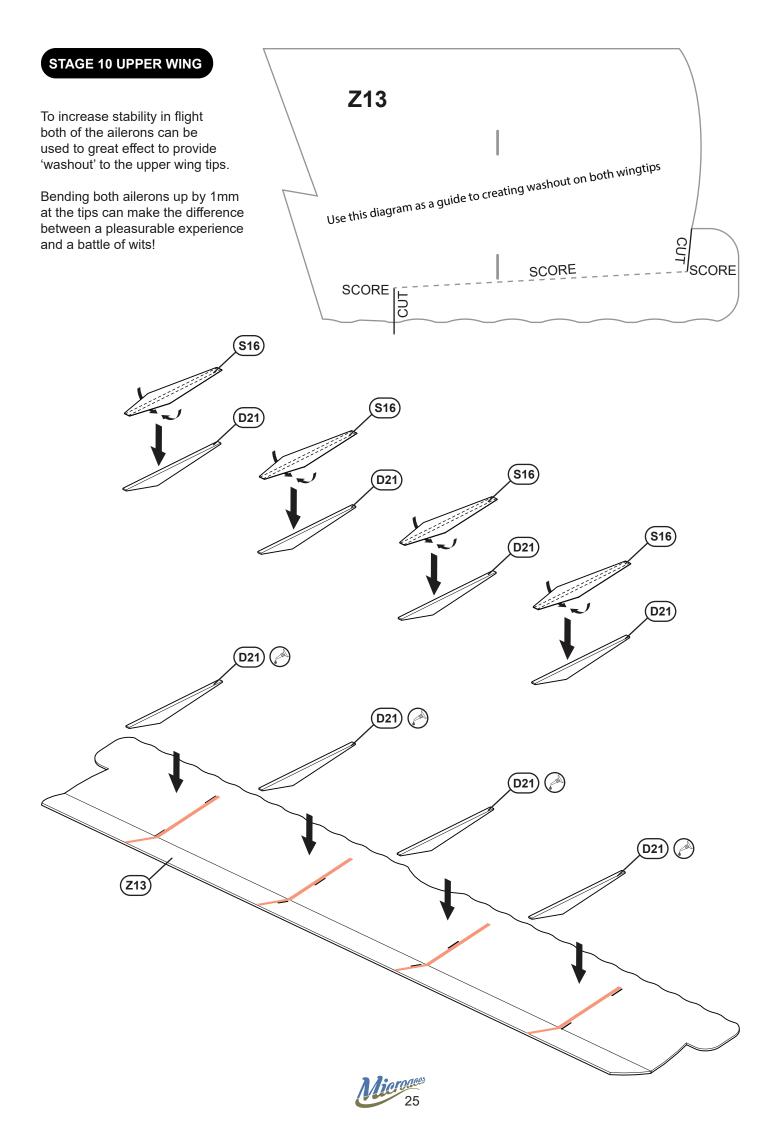
The Control Horns for the rudder and elevator are very flexible. Install the control wires for each and use tweezers to bend the horns to insert the 'Z' bend into the hole.

Use the outer hole of the control horns for more gentle control of your aircraft!

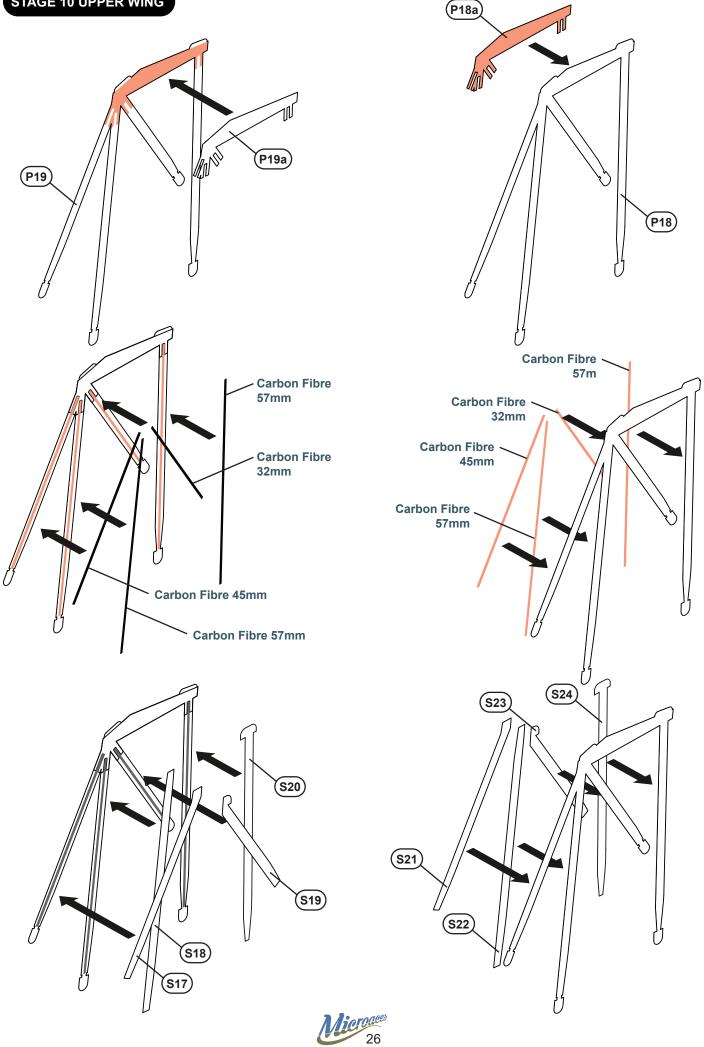


# **STAGE 9 MOTOR MOUNT**

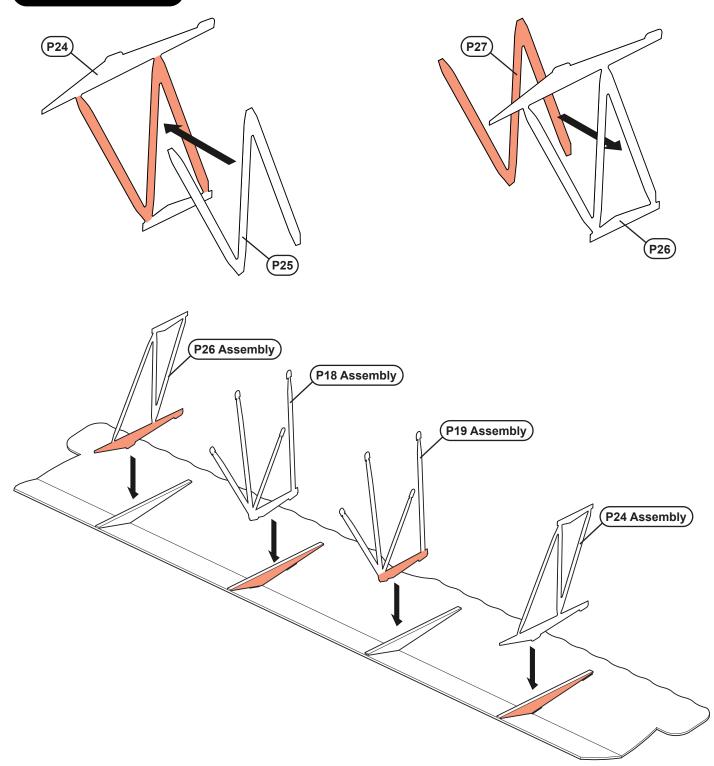




# STAGE 10 UPPER WING

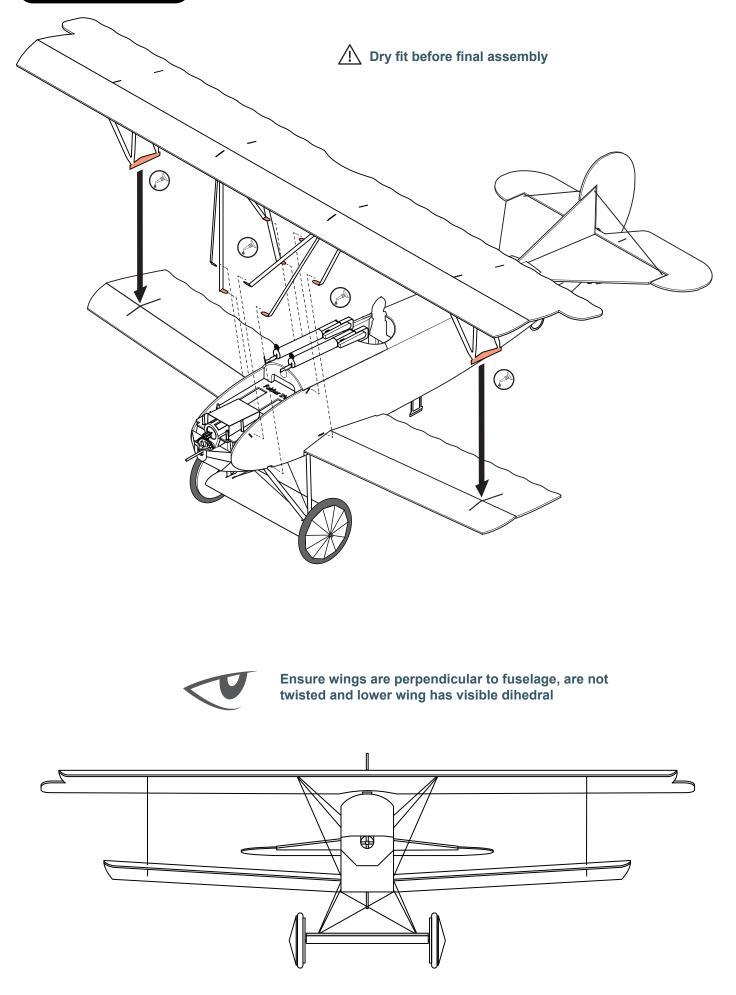


# STAGE 10 UPPER WING

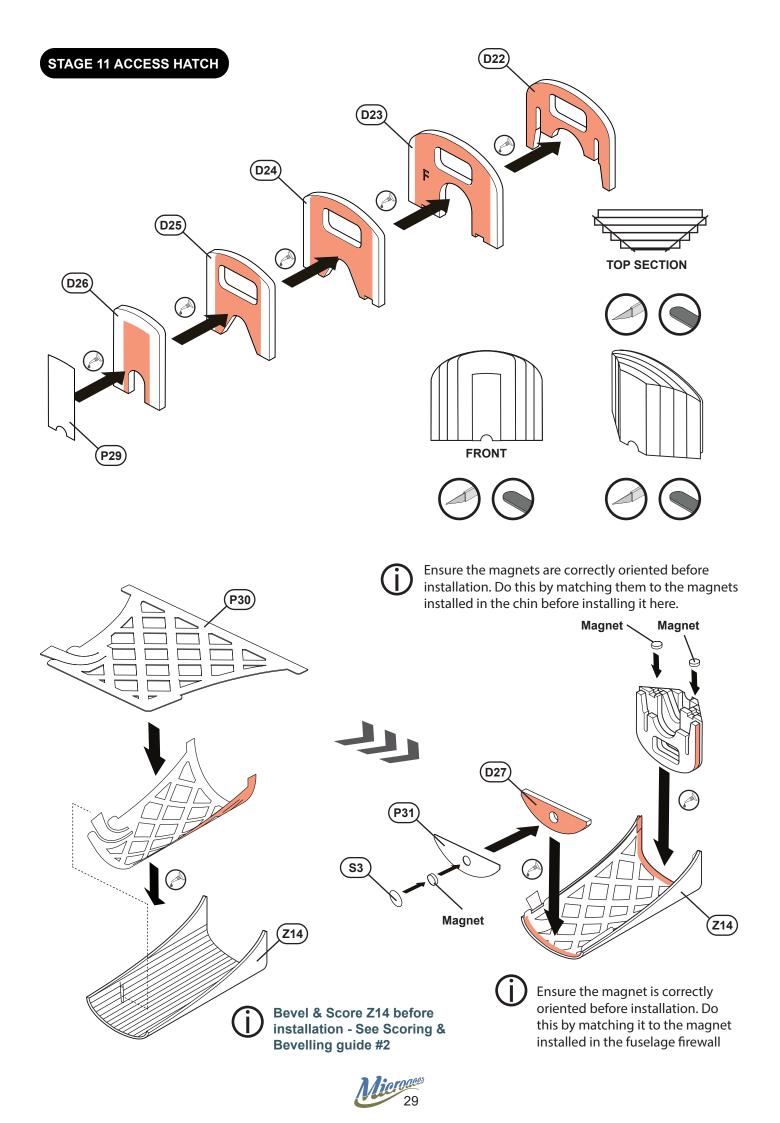




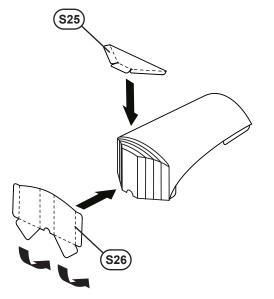


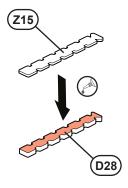


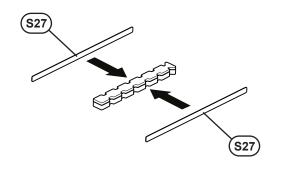


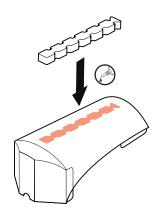


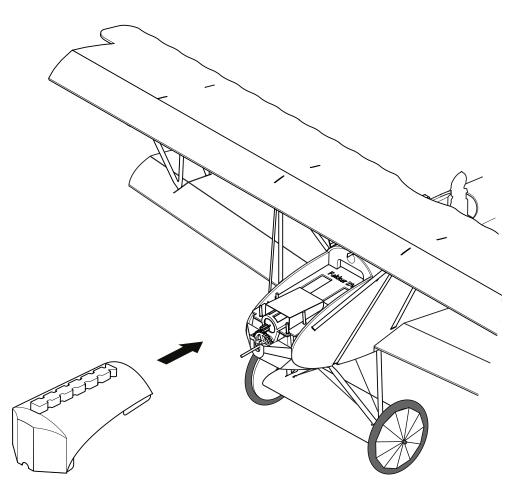




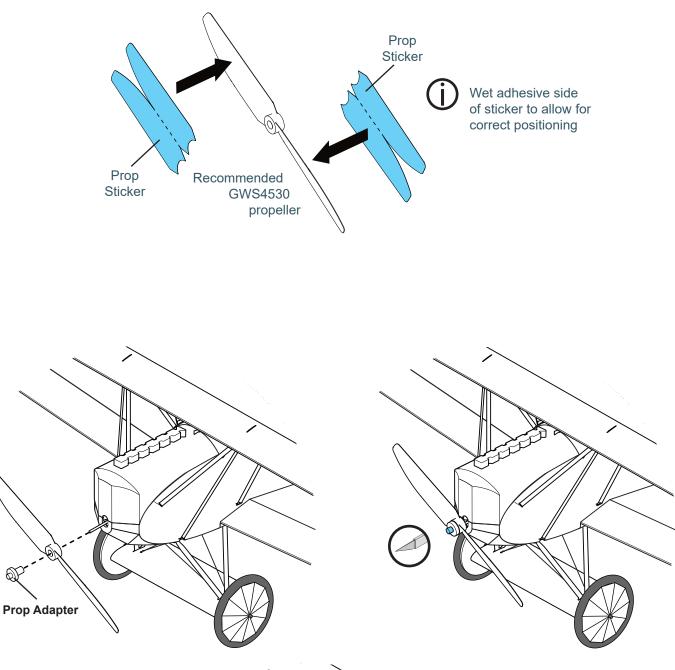


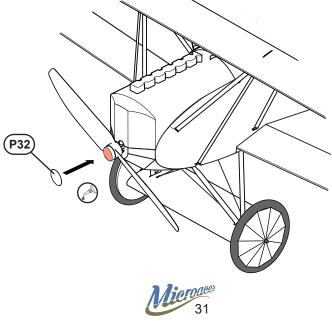












#### Centre of Gravity (CoG)

With all the electronics installed including the battery, the CoG should be around the apex of the top wing as shown on the diagram below.

Balance on finger tips to see if the aircraft blances at this point. Before adding any weight it is advisable to perform a glide test. Add weight accordingly to obtain a smooth glide.

