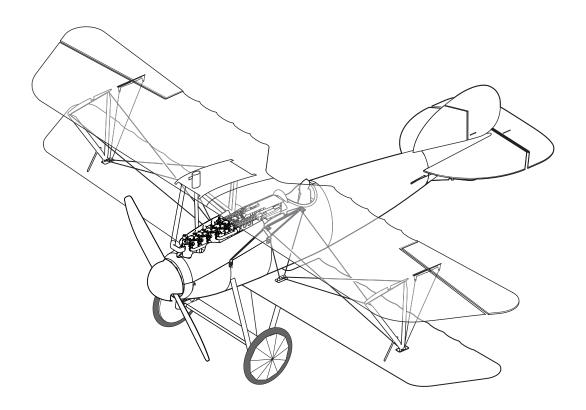


ASSEMBLY GUIDE



Albatros

(Master Series)



Introduction

Thank you for purchasing this Microaces Master Series Kit. Designed using innovative ideas, advanced materials and detailed aircraft illustrations, this model 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 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.

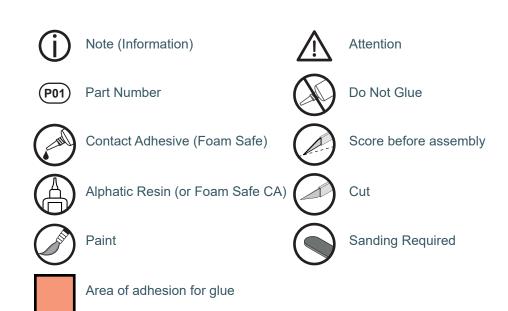
Assembly

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.

Warranty

Microaces warranties 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





INTRODUCTION



Click here to view build video

At the beginning of each STAGE within this guide there is a QR code. If you scan using a smart device (printed copy) or click (digital copy) this code, you will be able to view the build video that relates to the stage of the assembly. The videos contain important information, hints and tips that are designed to assist with the building process.

Try scanning or clicking on the QR code here to view the Video Introduction.

KIT PARTS

Sheet Parts 2 x 2mm laser cut foam airframe

3 x printed & laser cut Tyvek fuselage parts

3 x printed & laser cut wing & tail parts

1 x 200 micron printed & laser cut polypropylene parts

1 x printed & cut polyester sticker parts

1 x 0.8mm laser cut plywood parts

Loose Parts

2 x rubber tyres

1 x vacuum formed ABS spinner

1 x profile pilot figure

1 x ~4m rigging wire

10 x rigging crimps

2 x piano wire control rods

2 x 150mm carbon fibre tube

1 x 100mm x 1.5mm carbon fibre rod

2 x 500mm x 1.0mm x 0.4mm carbon fibre strip

10 x 4mm x 1mm neodymium magnets

1 x 5mm x 5mm magnetic sheet

2 x 140mm x 4mm clear plastic tube

1 x 20mm x 4mm clear plastic tube

1 x 100mm x 3mm clear plastic tube

2 x 3D printed engine parts

1 x 3mm x 1mm neodymium magnet

RECOMMENDED TOOLS/GLUES

Knife or Scalpel with fresh blade

Steel Rule or straight edge

Sanding Stick or sand paper (180 grit recommended)

Tweezers

Needle threader or Microaces Rigging Tool

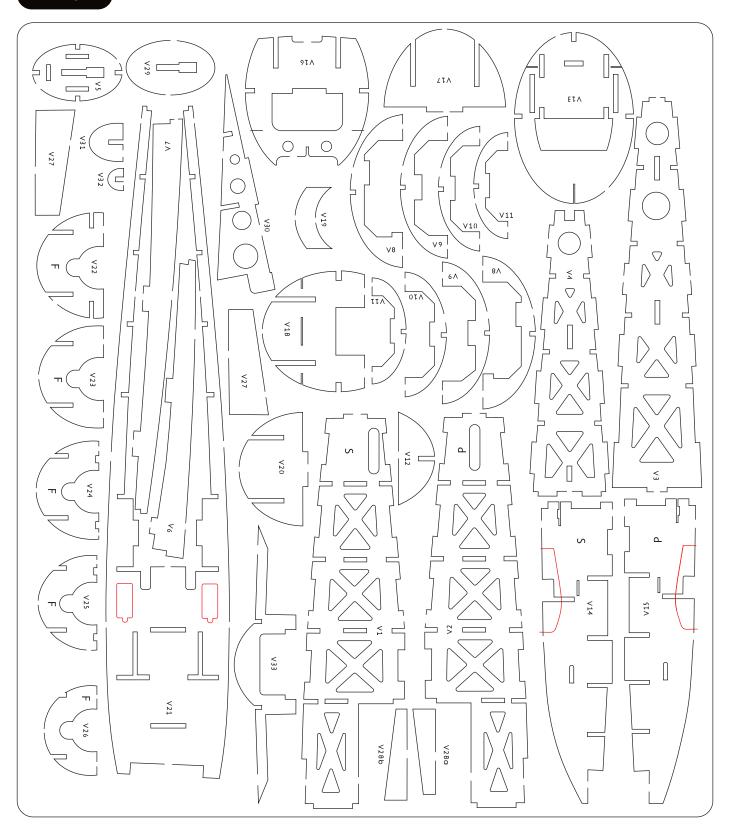
Needle nose pliers & wire cutters

Deluxe Materials Foam 2 Foam adhesive

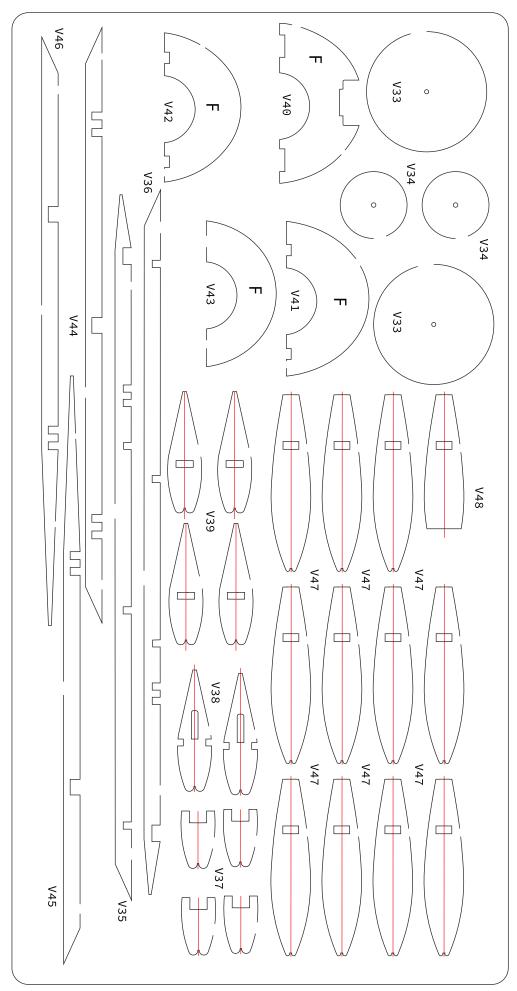
Aliphatic Resin or Foam safe cyano glue (for rigging & re-inforcement)

Paintbrush handle or dowel (for shaping Tyvek)

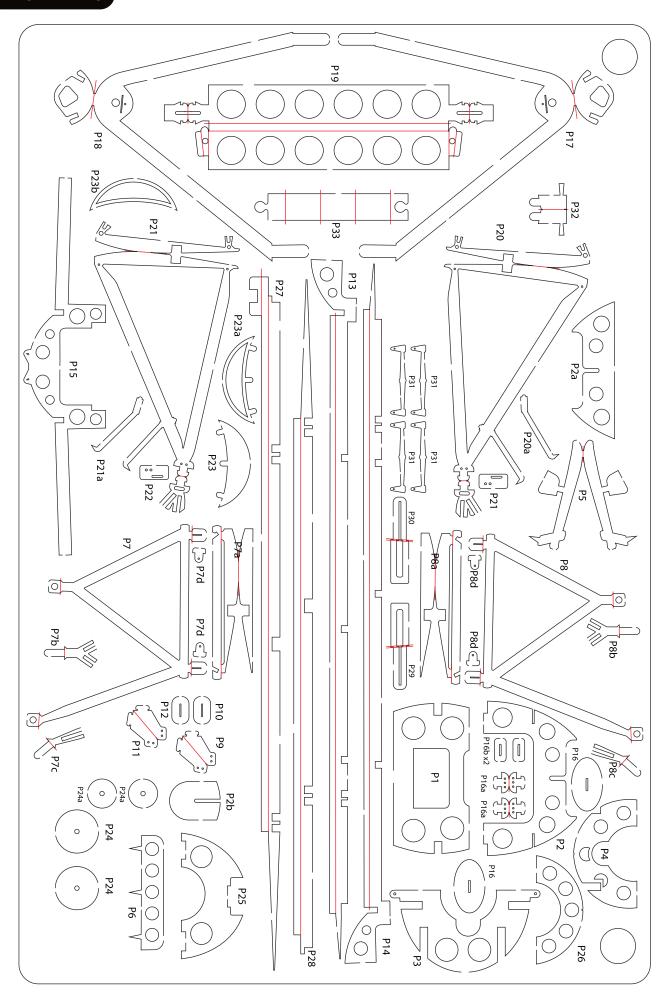
2mm FOAM





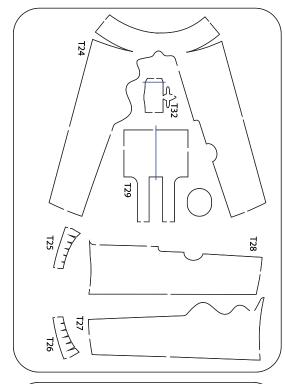


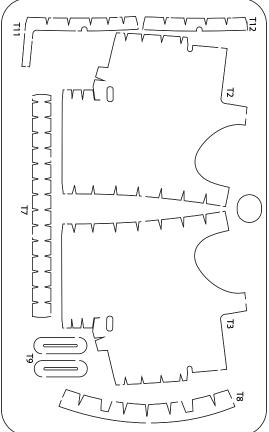


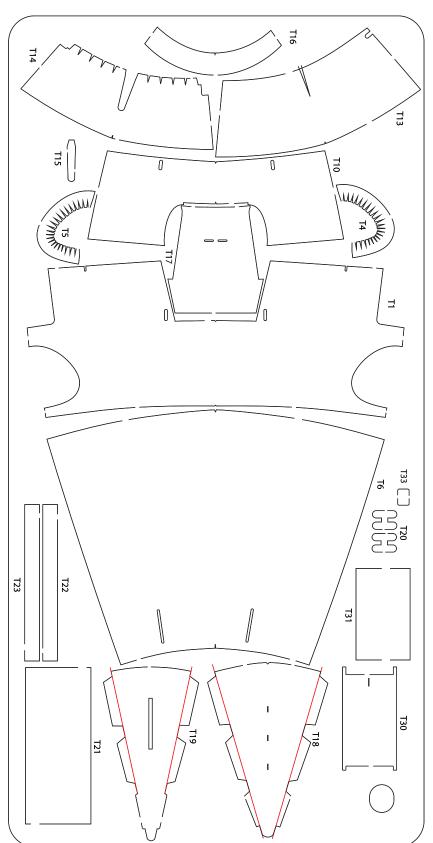




TYVEK PARTS

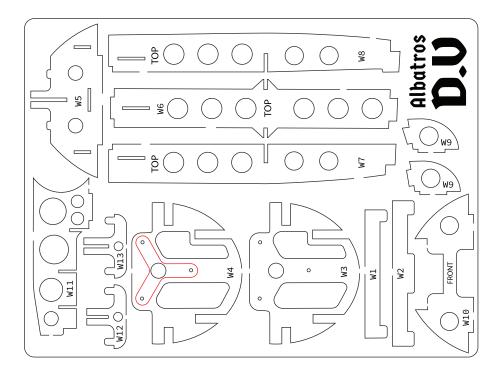




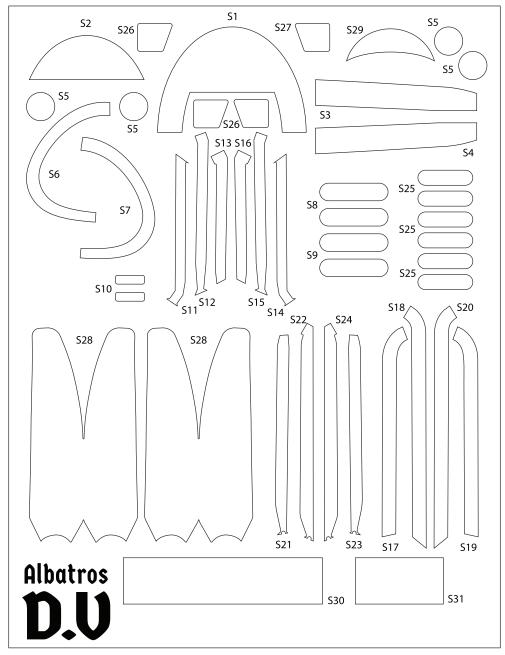


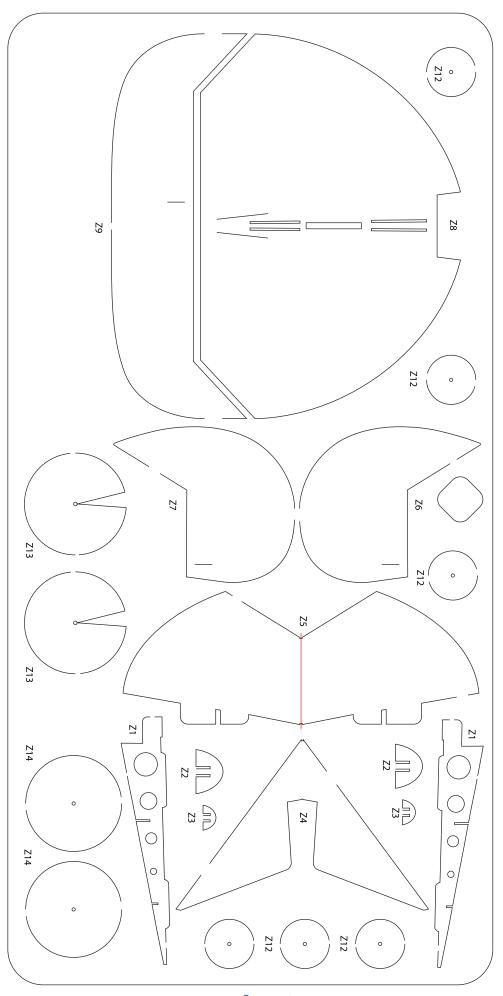


0.8mm PLYWOOD

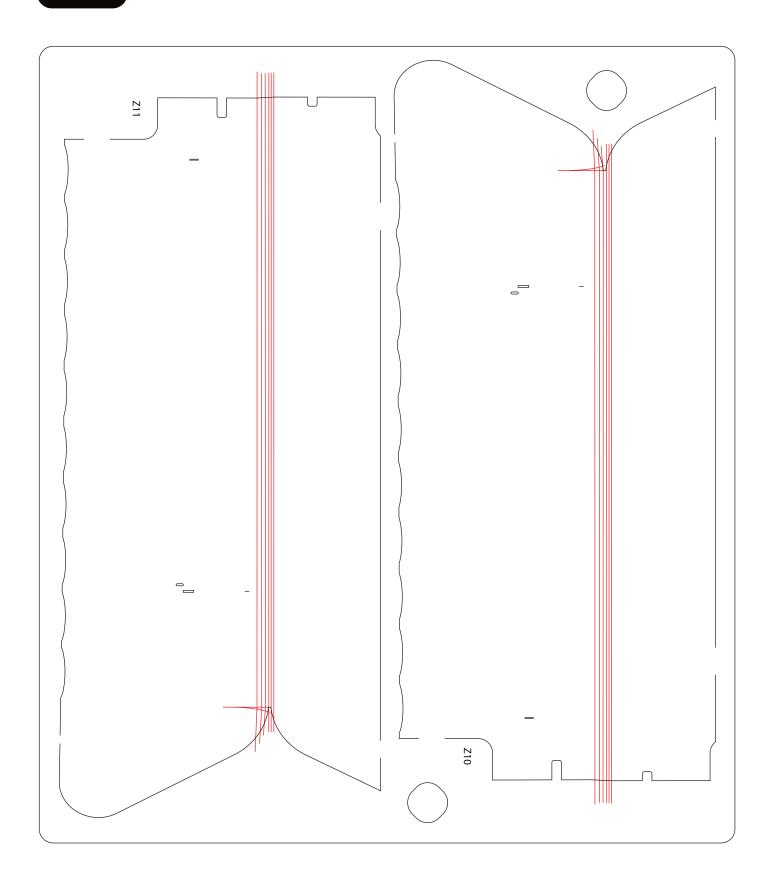


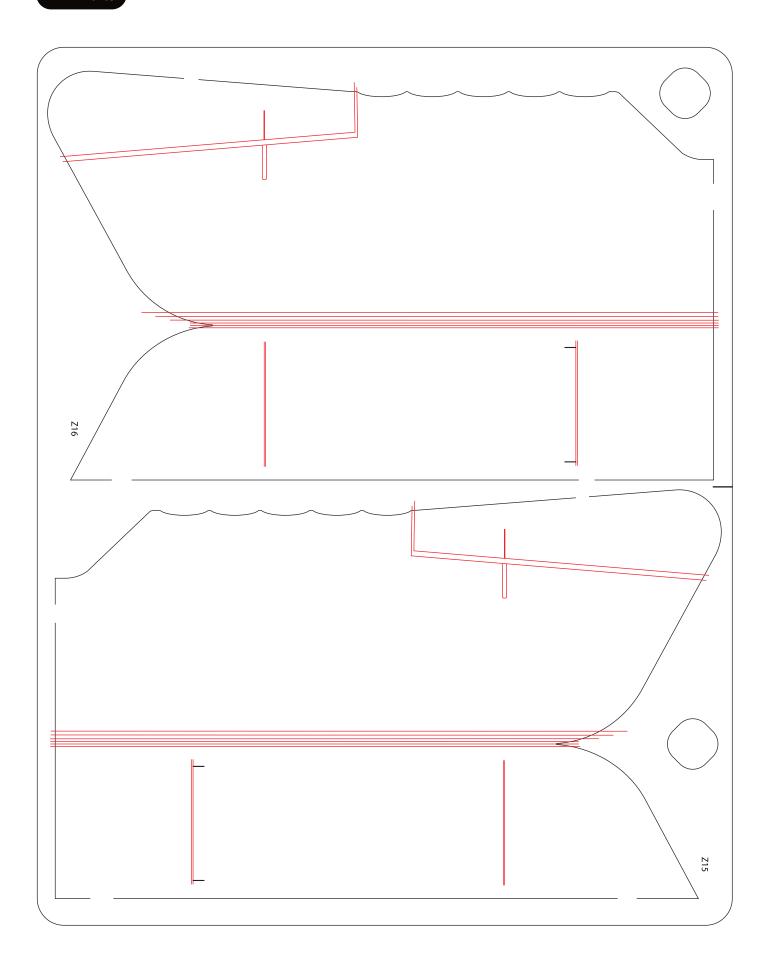
STICKERS











STAGE 1 AIRFRAME



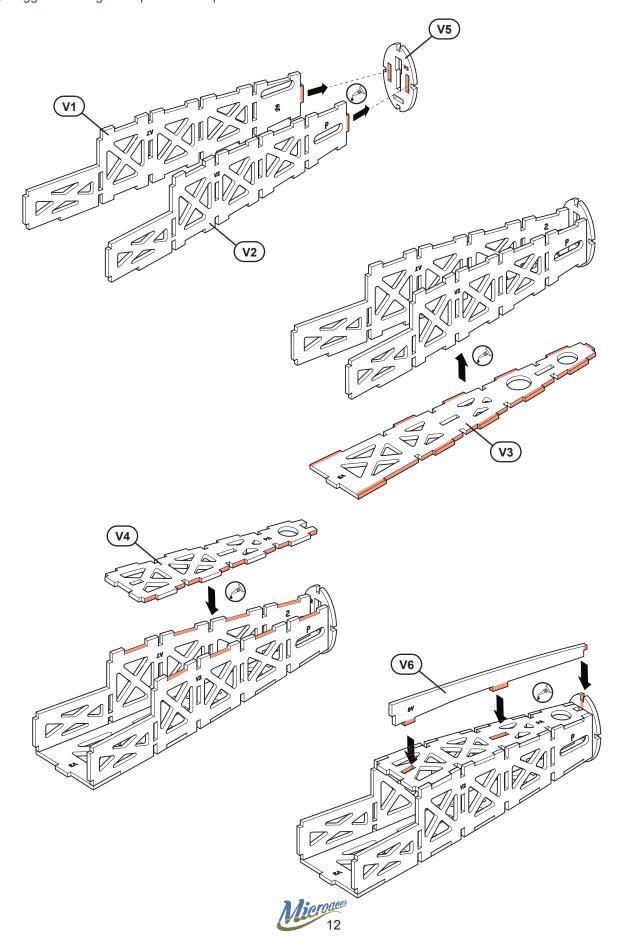
The plastic parts used in the airframe are there to increase the strength of the structure in vital areas whilst still providing some flexibility.



Click here to view build video

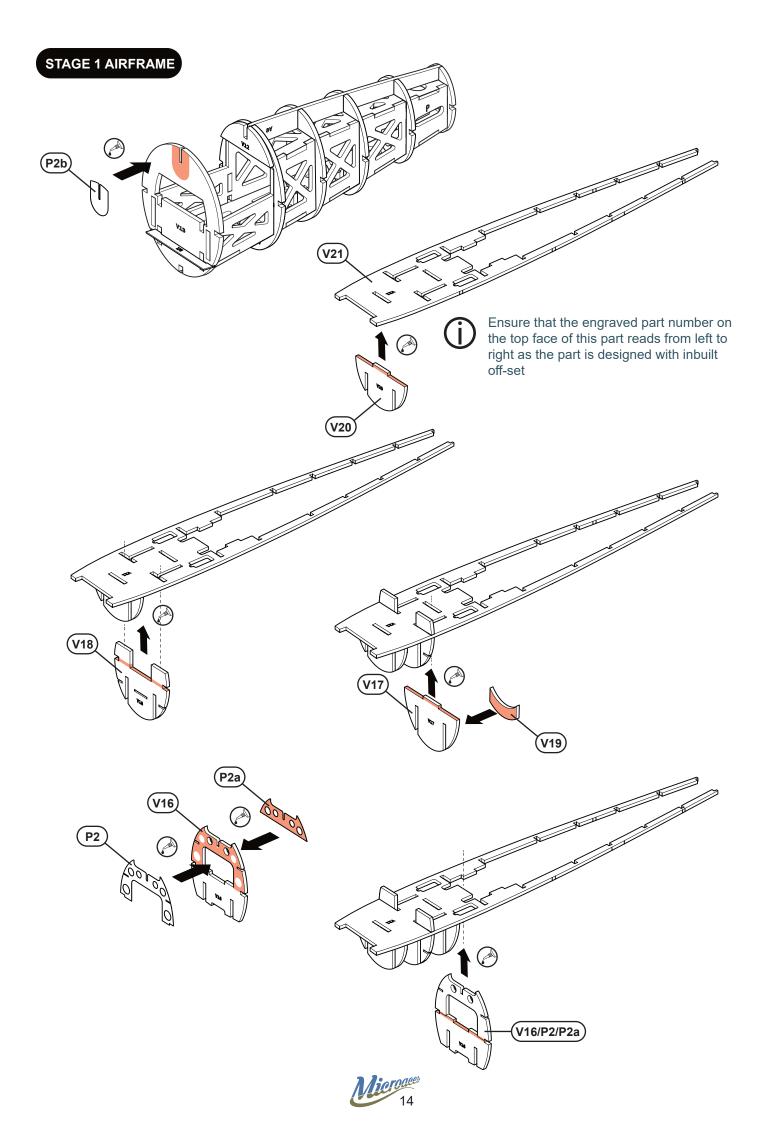


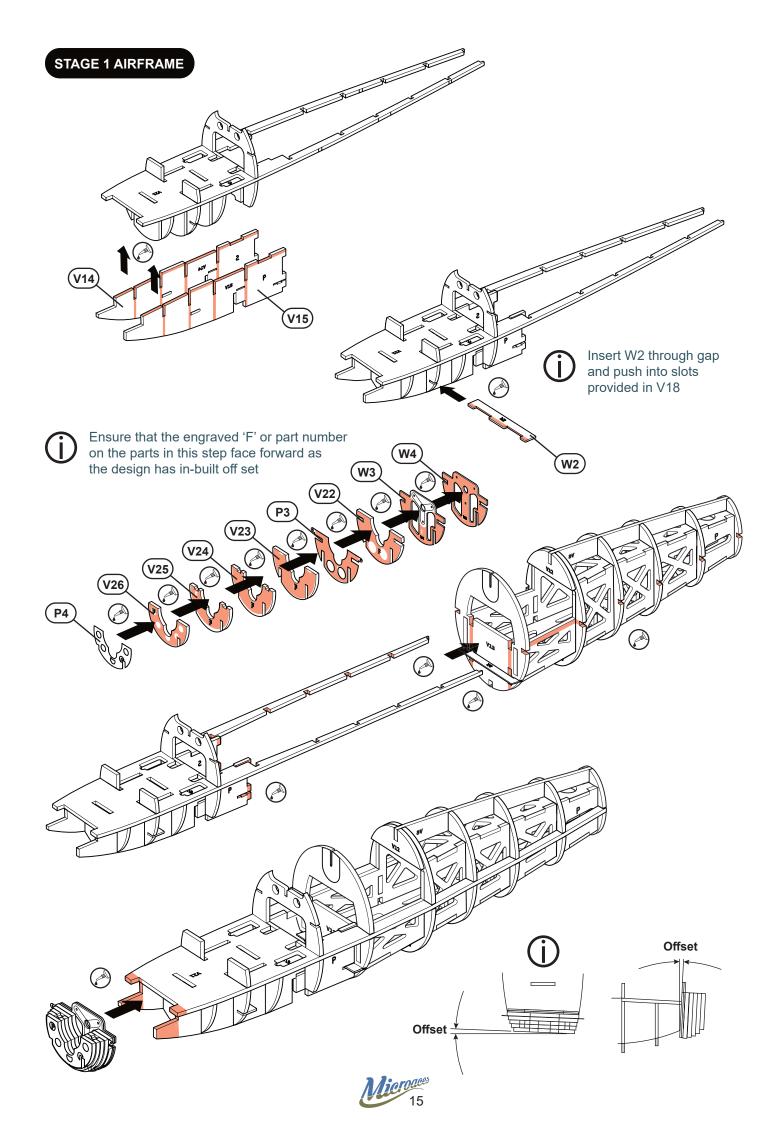
Apply a thin layer of adhesive to the plastic part and attach immediately to allow some wiggle time to get the parts lined up. Set aside to cure.

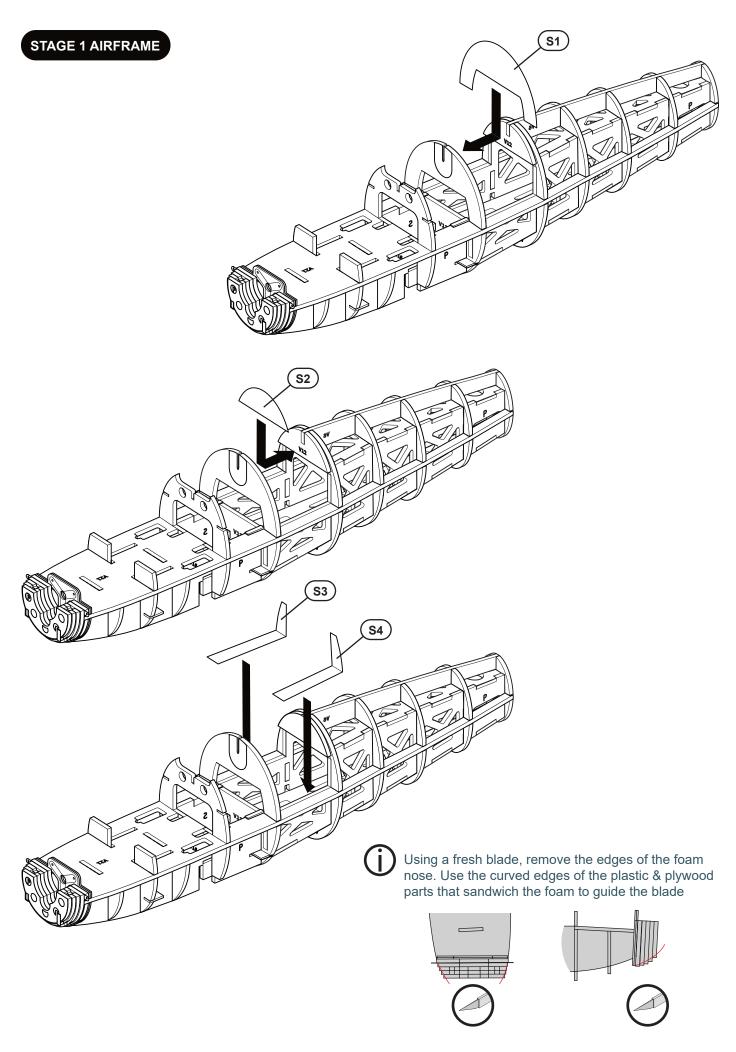


STAGE 1 AIRFRAME (V11) V10 (V9) (V7) **V8** (V11) V10 (V13) **V9 V8** (W1) (V12



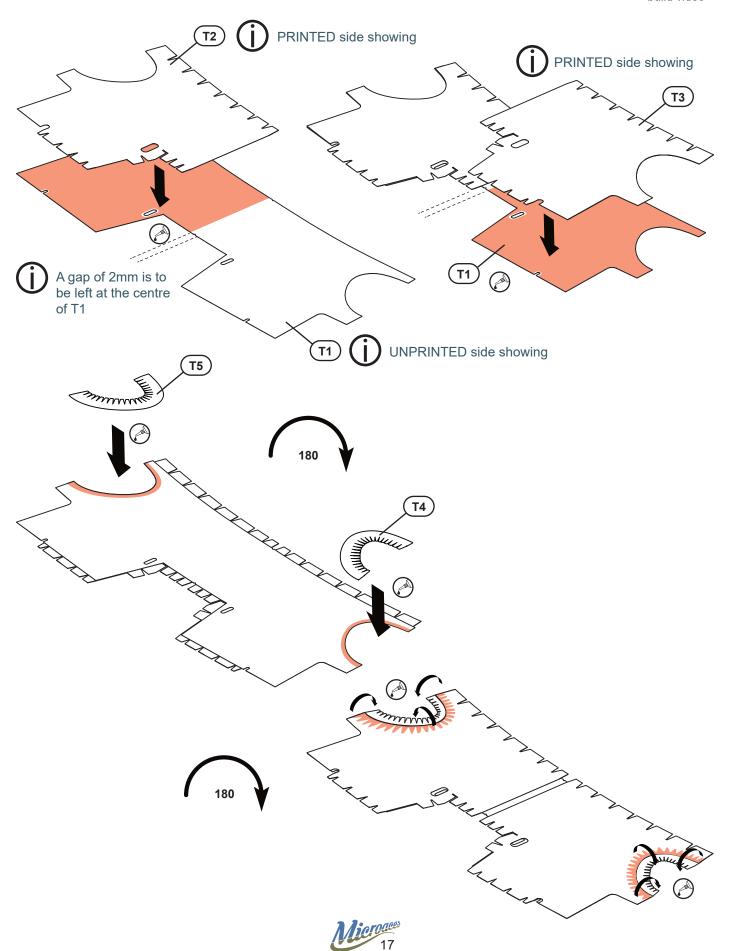


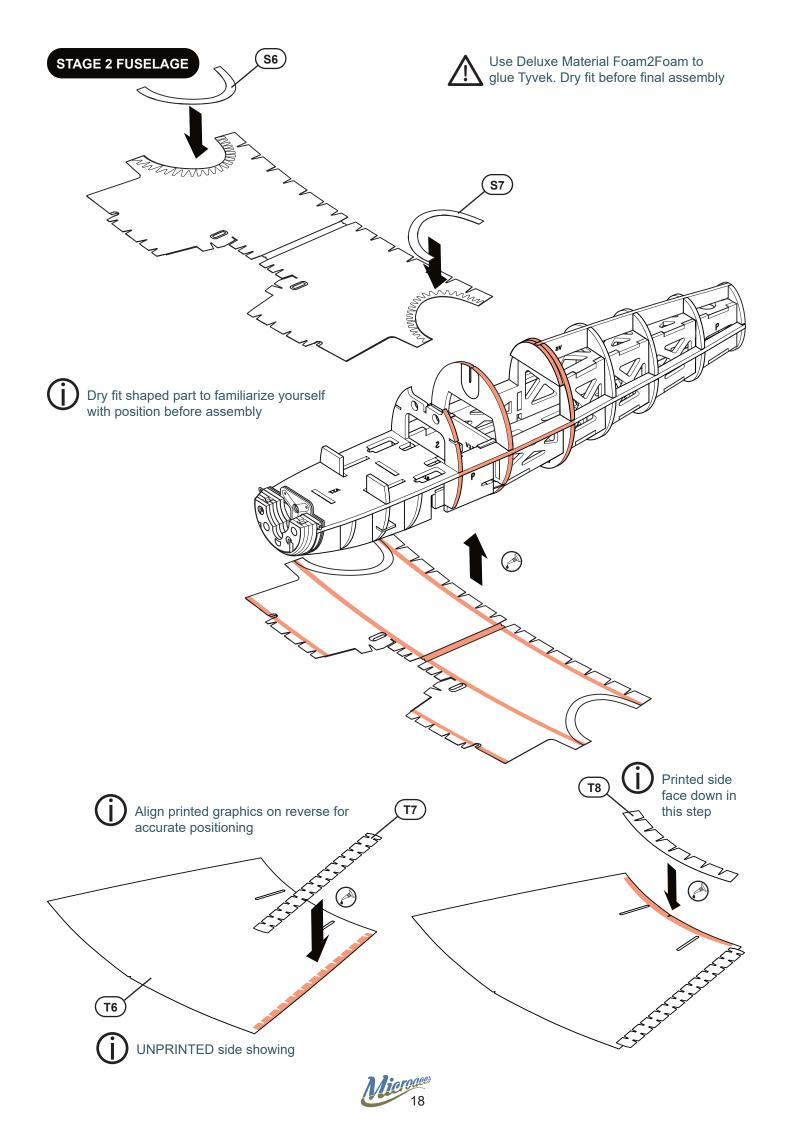


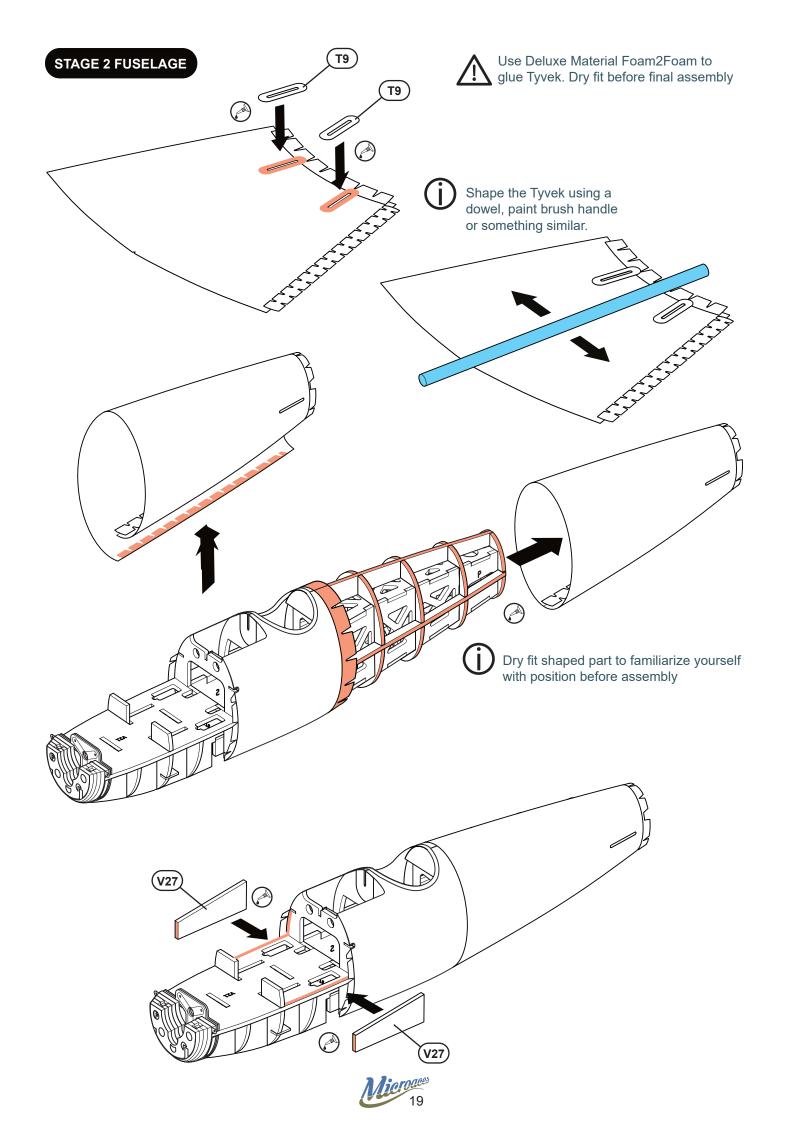


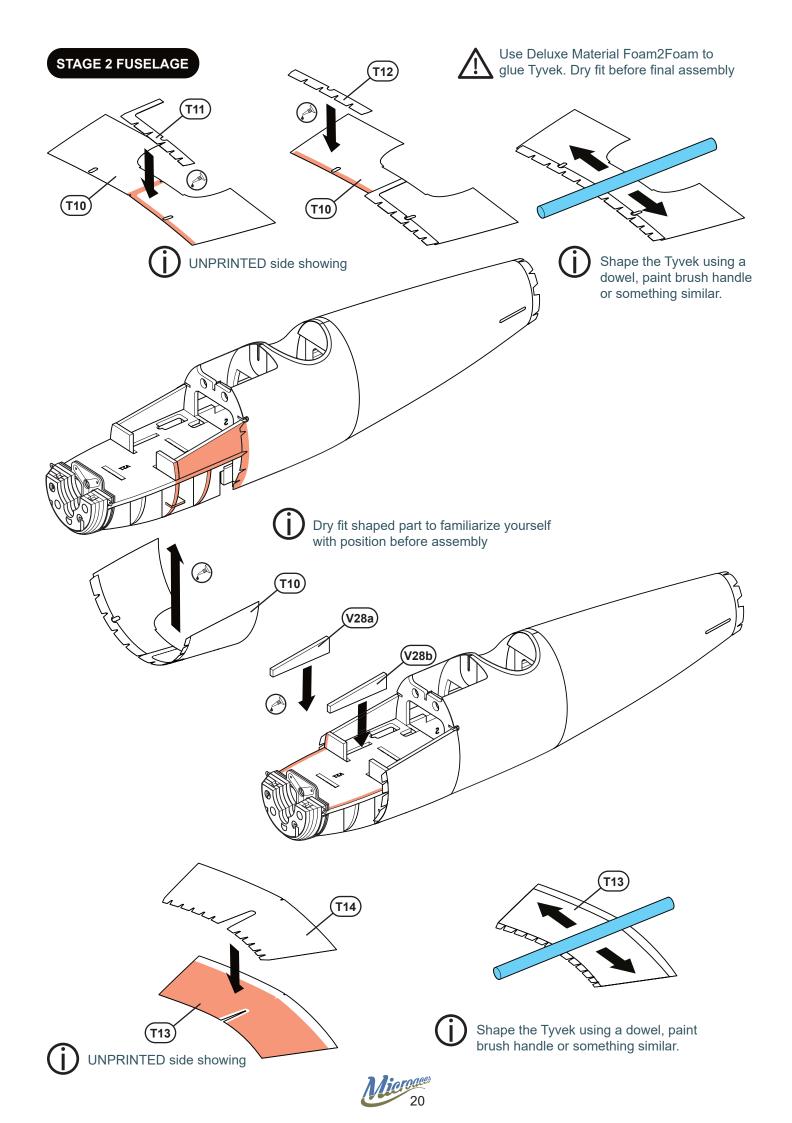


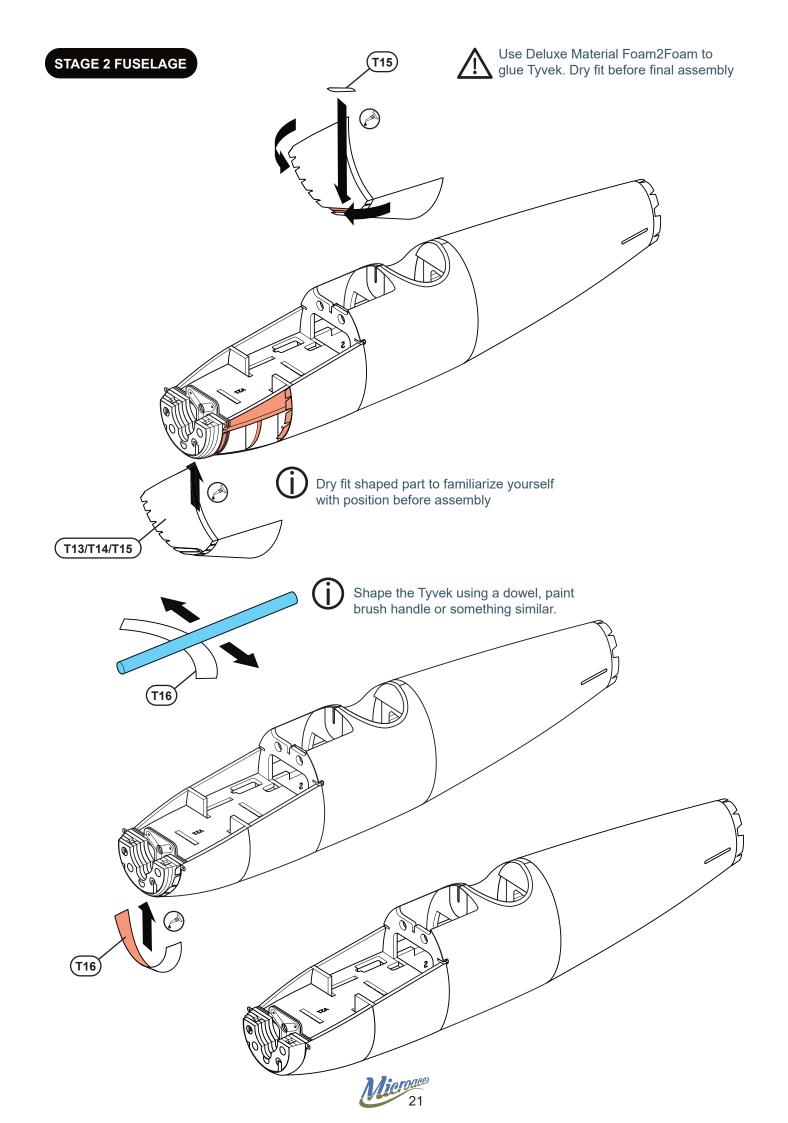
Click here to view build video



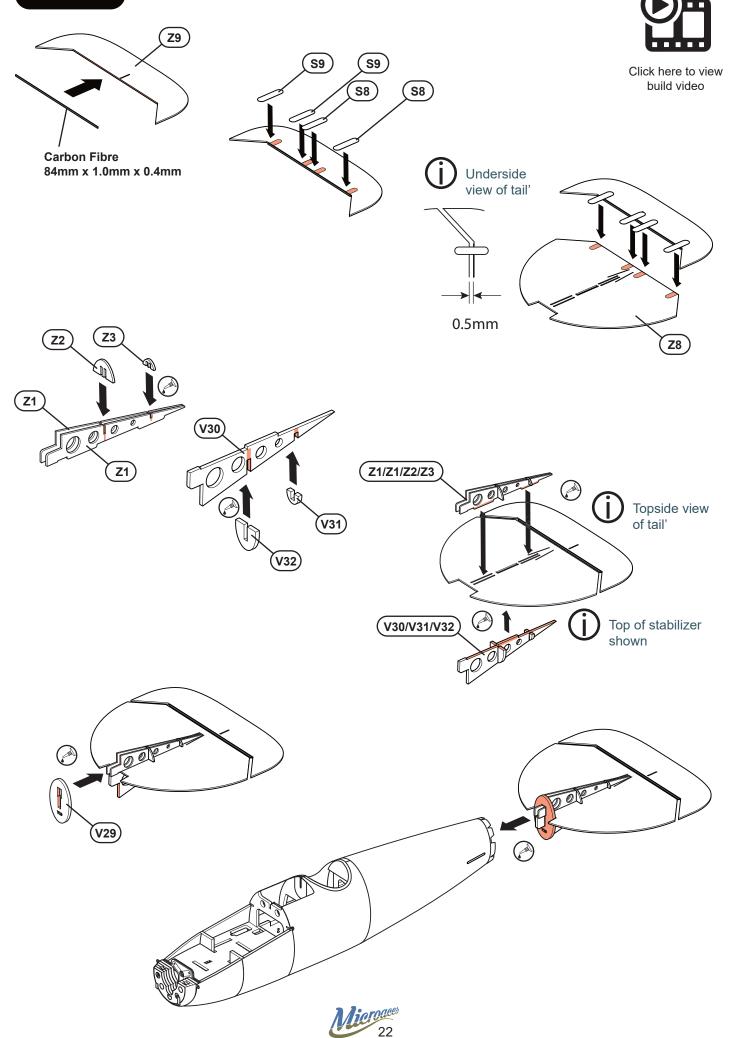


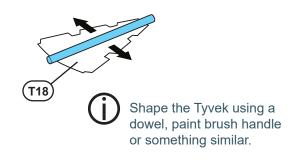


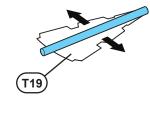


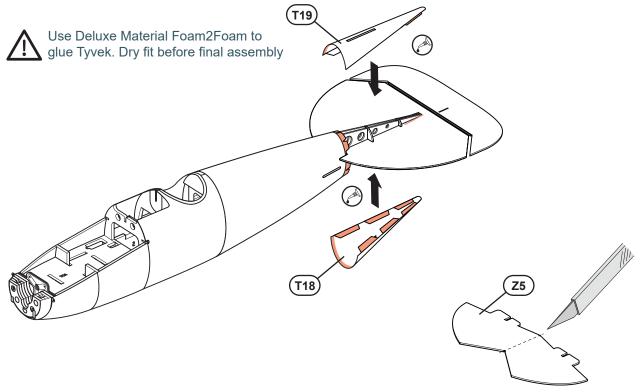


STAGE 3 TAIL

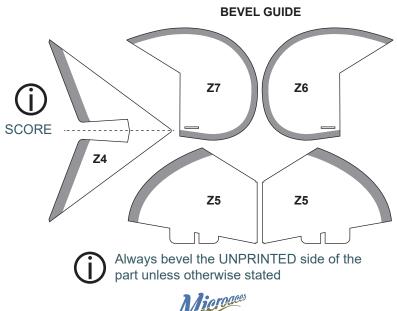




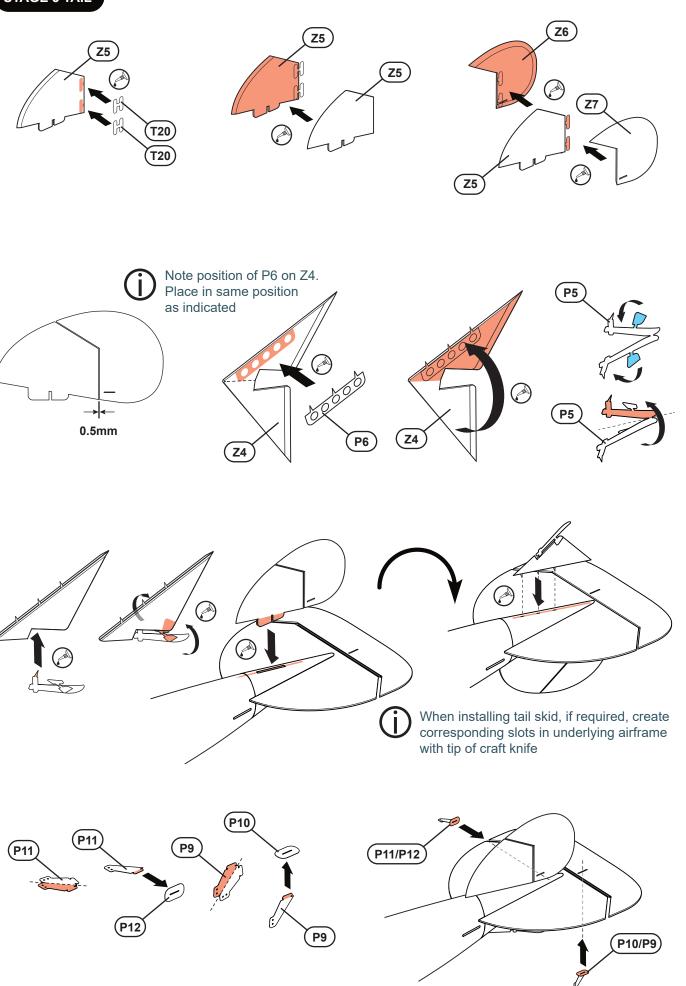




Watch Albatros Assembly Video for detail on best practice and techniques in this part of the build'



STAGE 3 TAIL



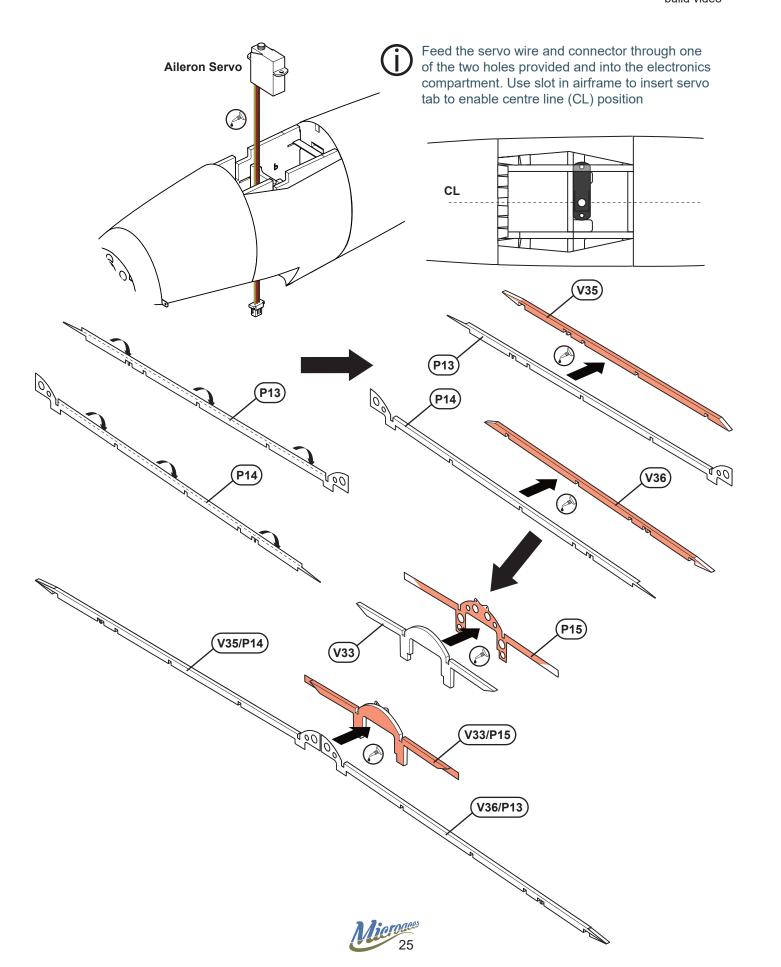
STAGE 4 LOWER WING



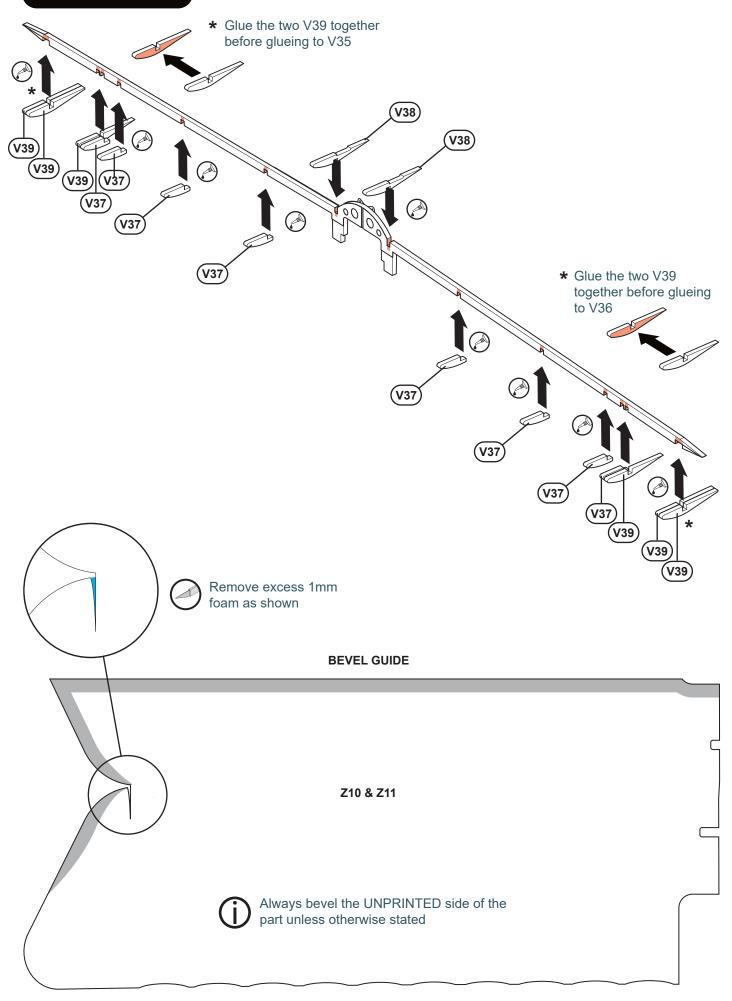
Before installing the servo, ensure it operates correctly by plugging into the aileron port on the receiver and testing control with your transmitter. Centre any trim setting you may have on your transmitter to ensure the servo is centred

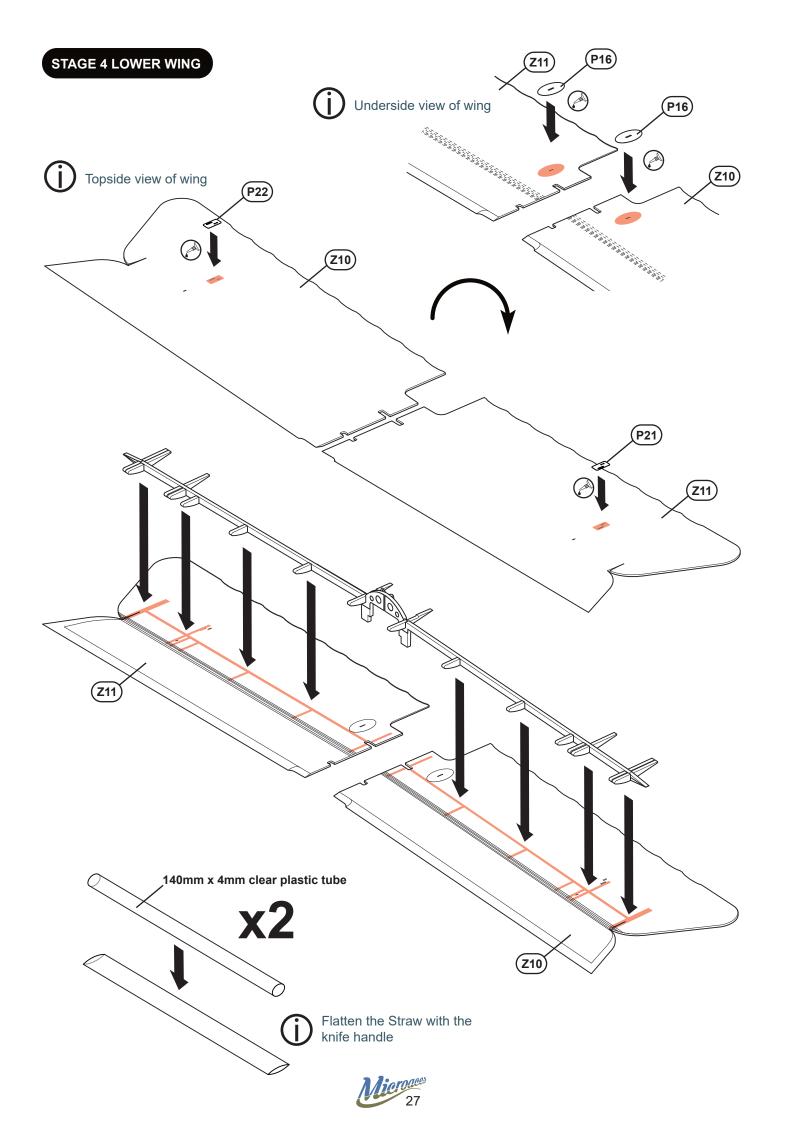


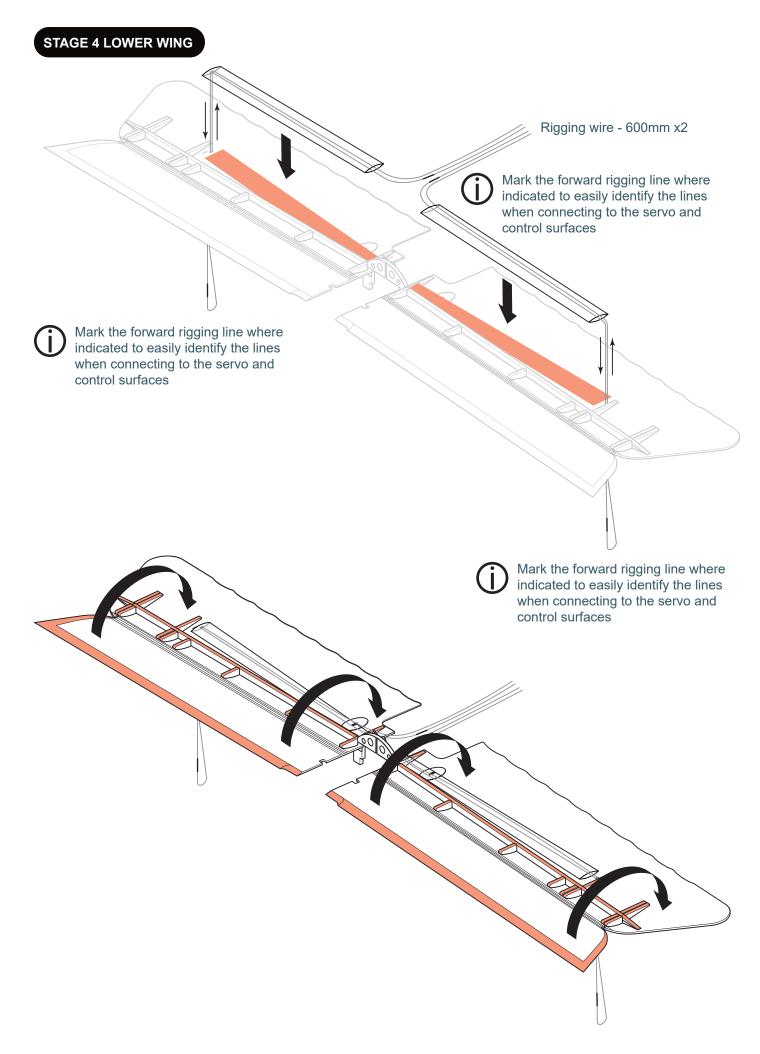
Click here to view build video



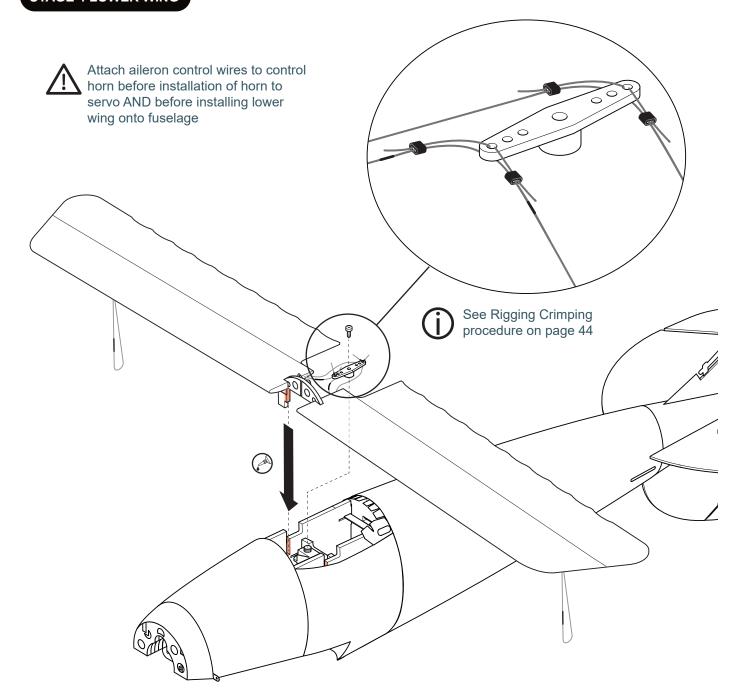
STAGE 4 LOWER WING

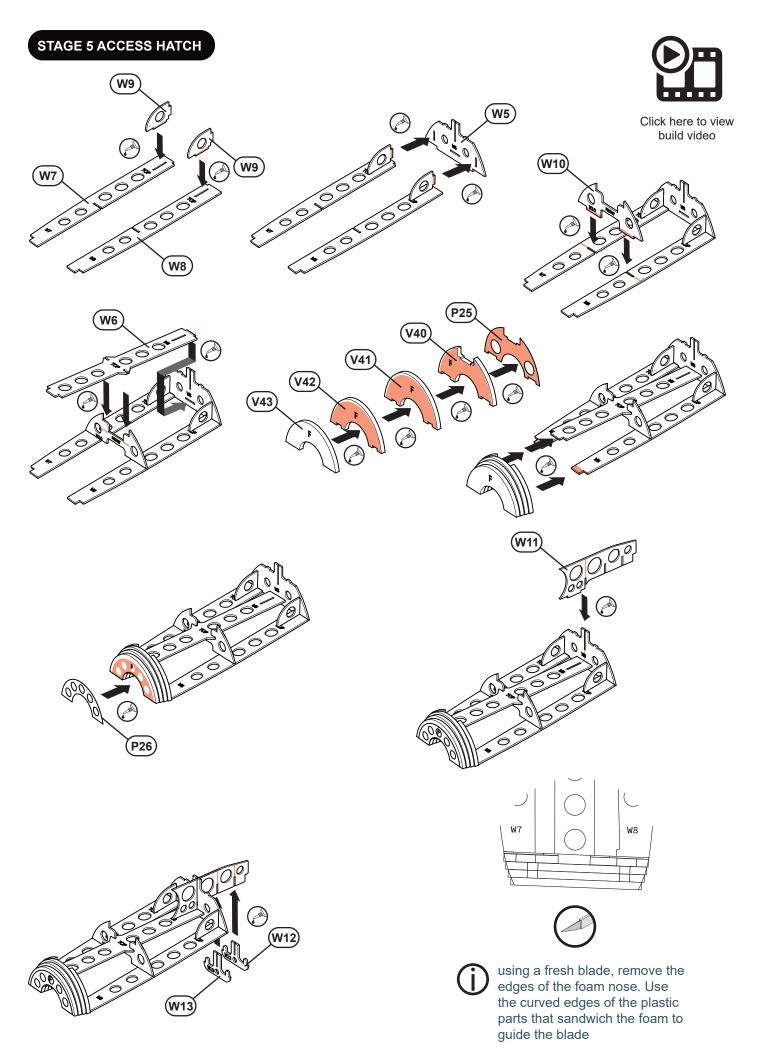




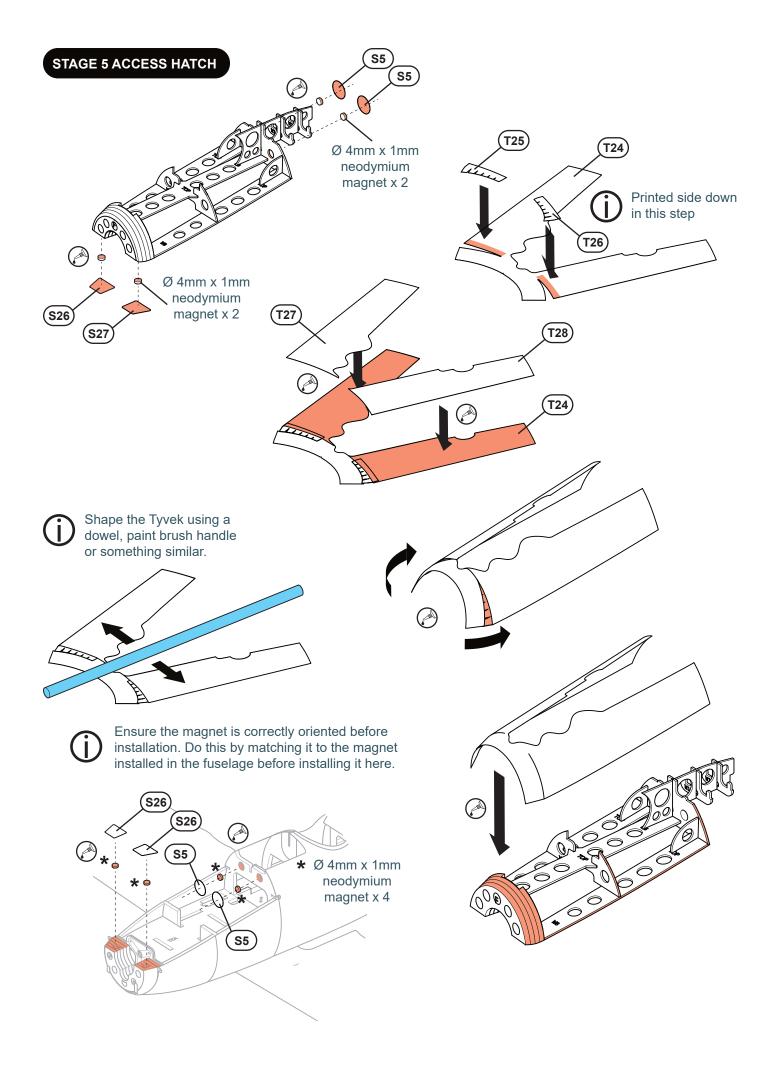


STAGE 4 LOWER WING

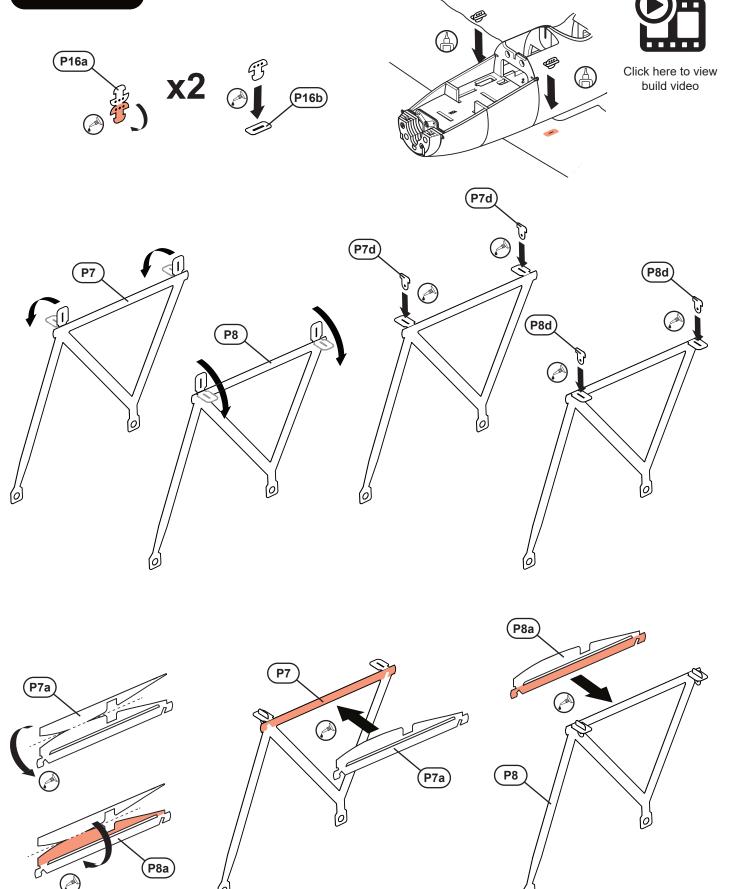


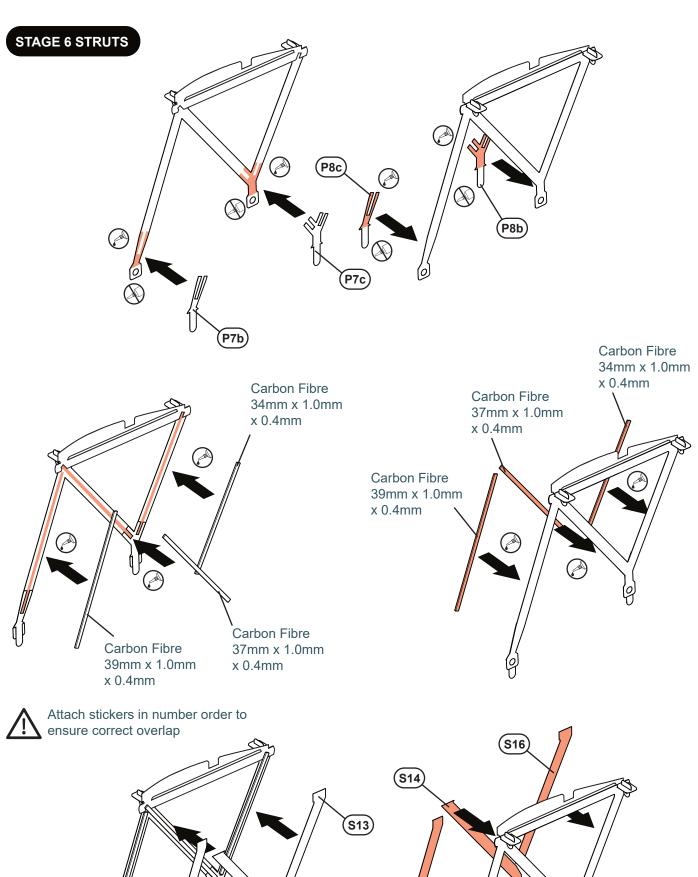


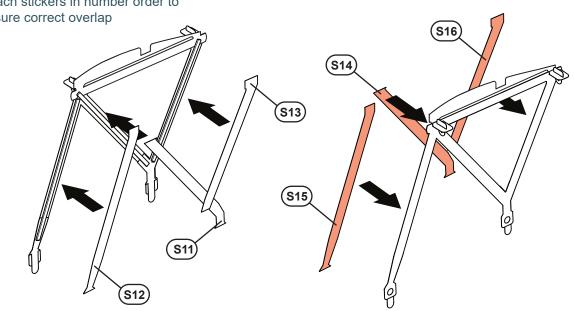




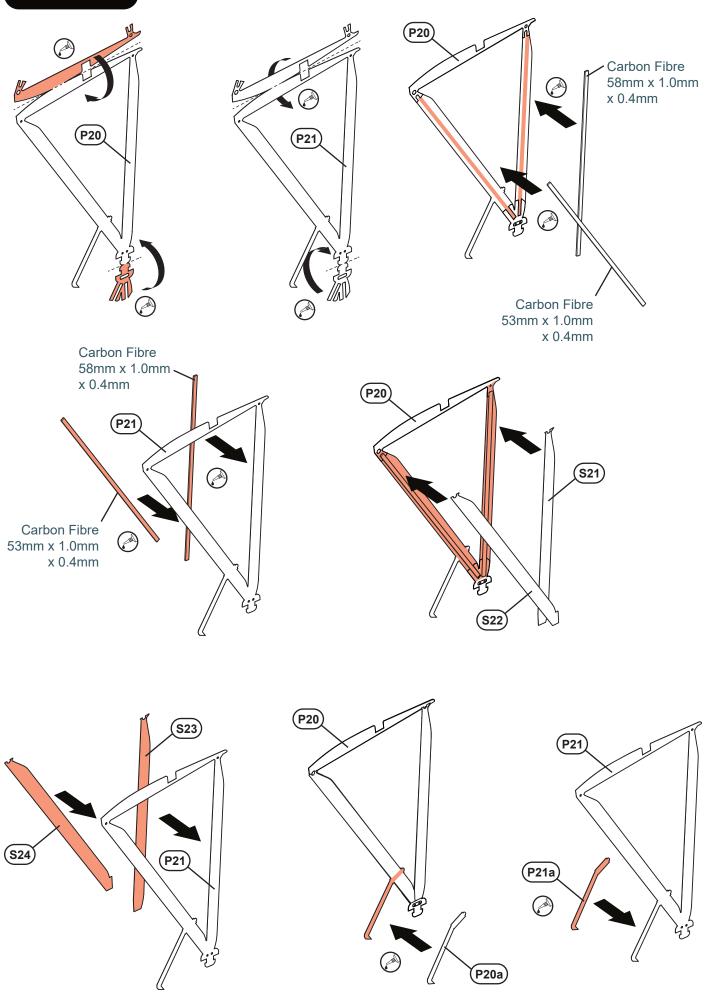
STAGE 6 STRUTS



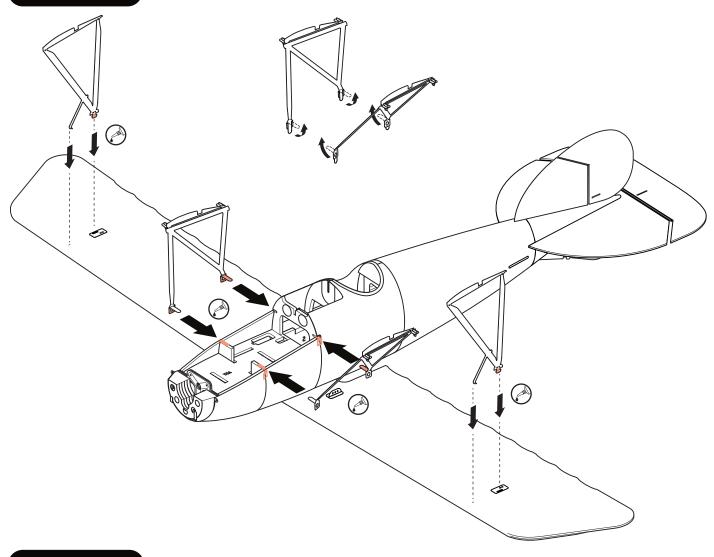




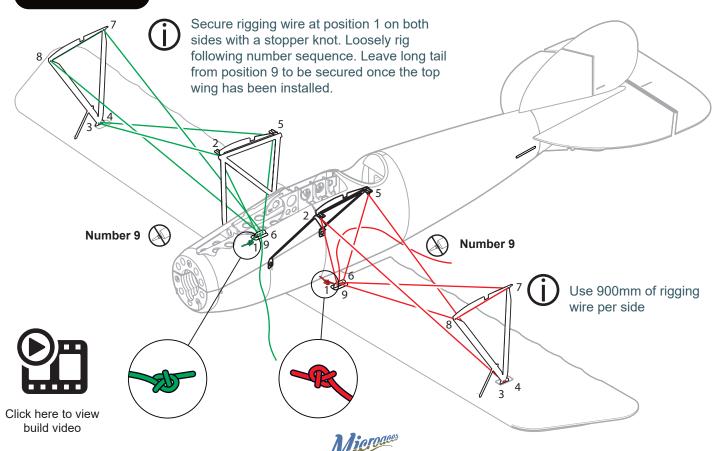
STAGE 6 STRUTS

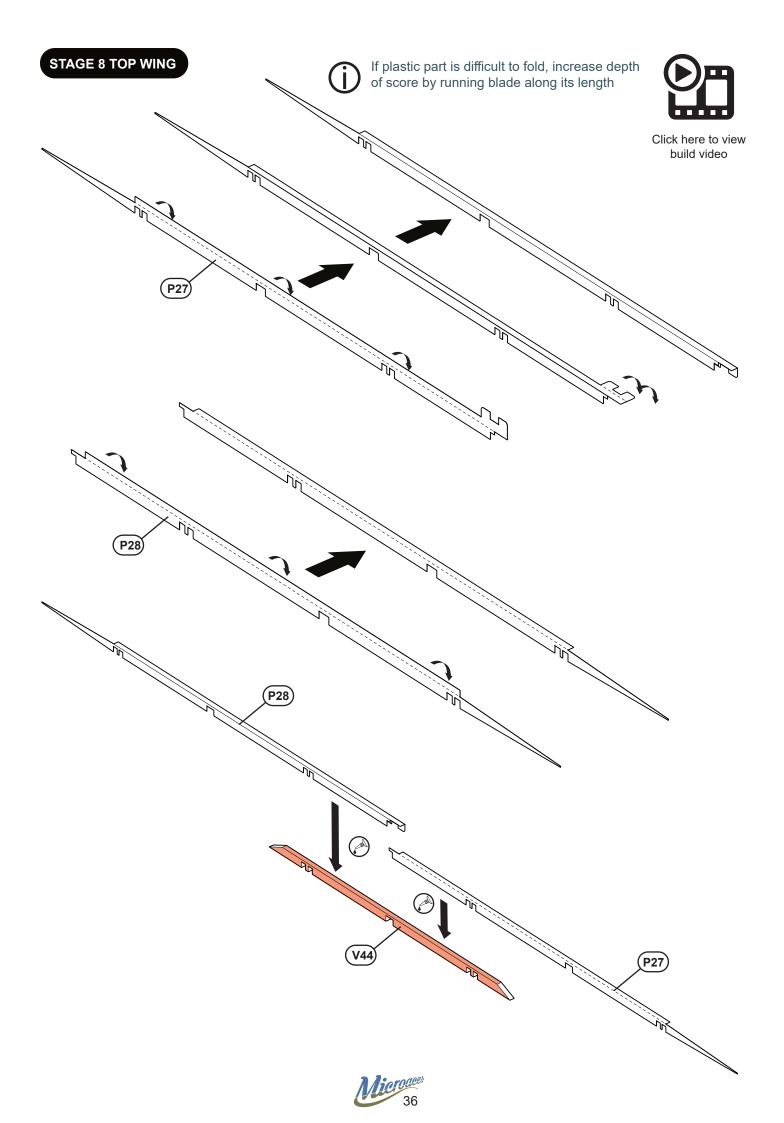


STAGE 6 STRUTS

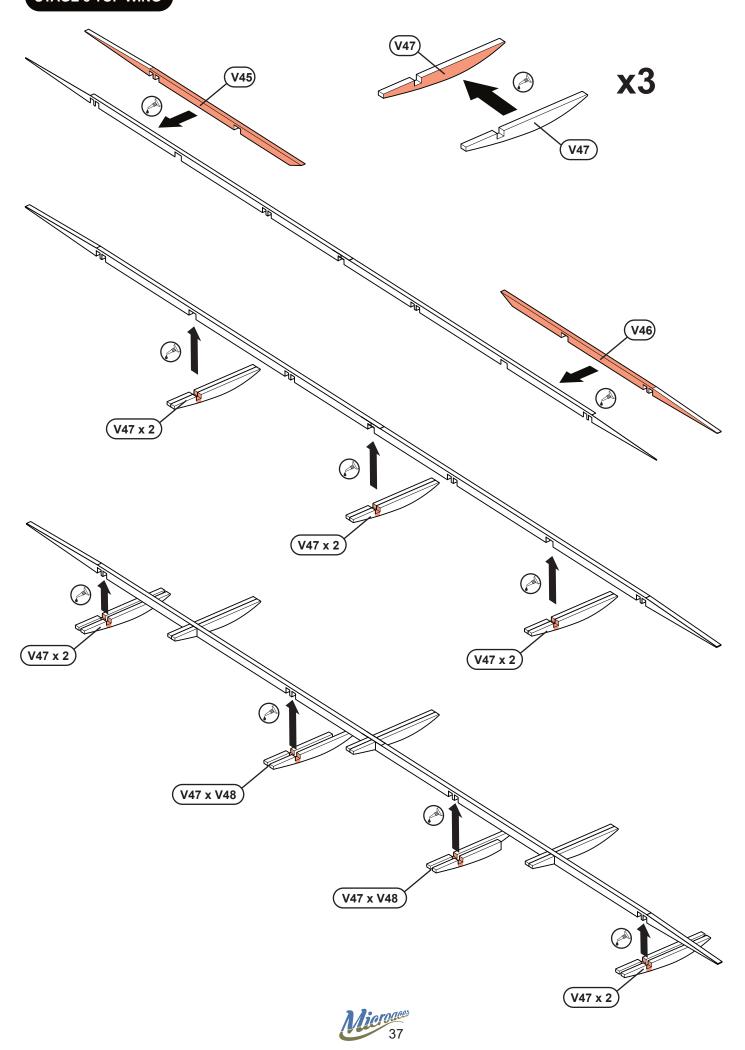


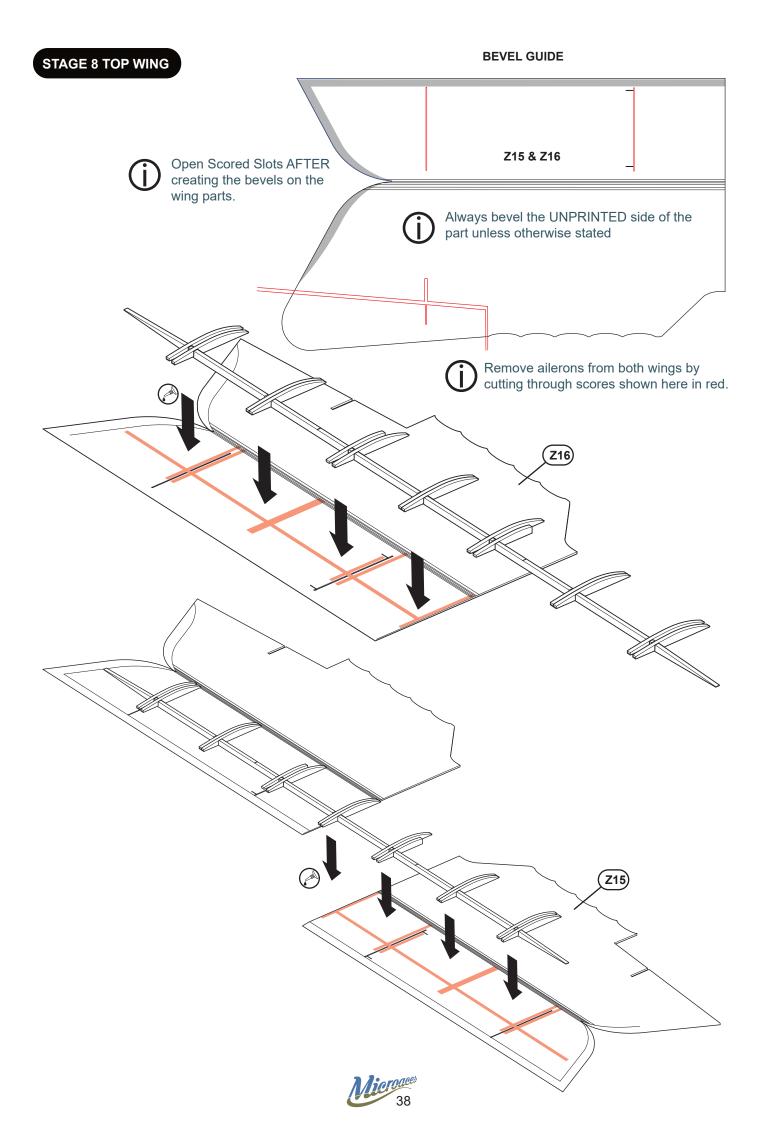
STAGE 7 RIGGING

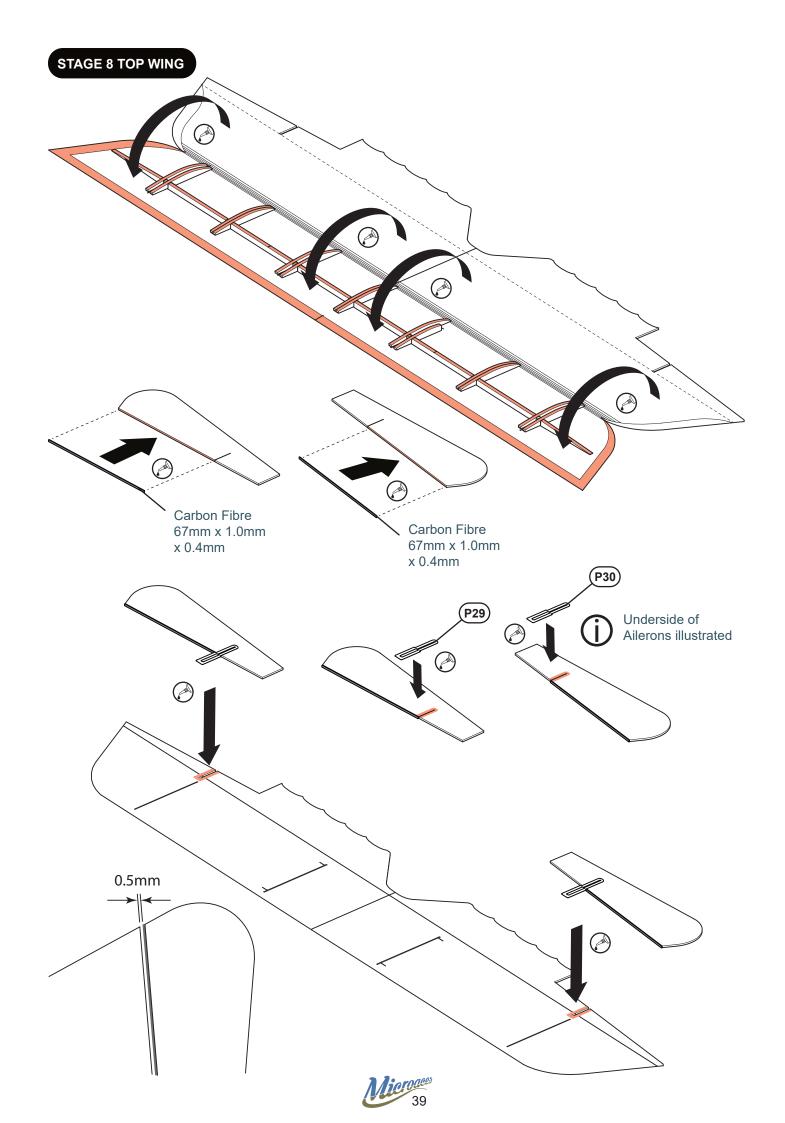




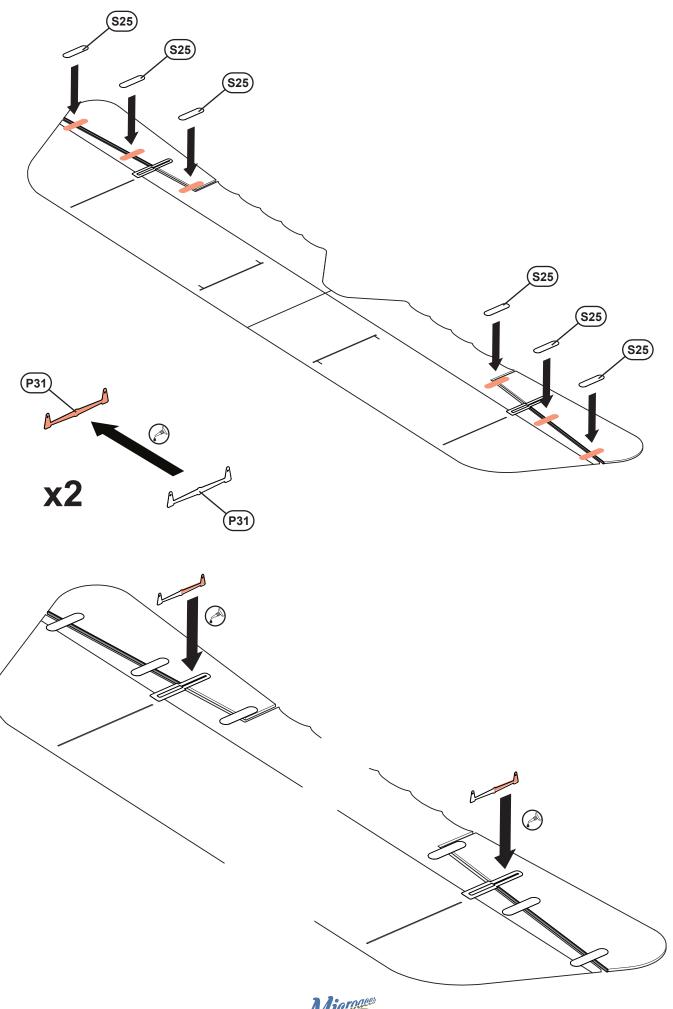
STAGE 8 TOP WING



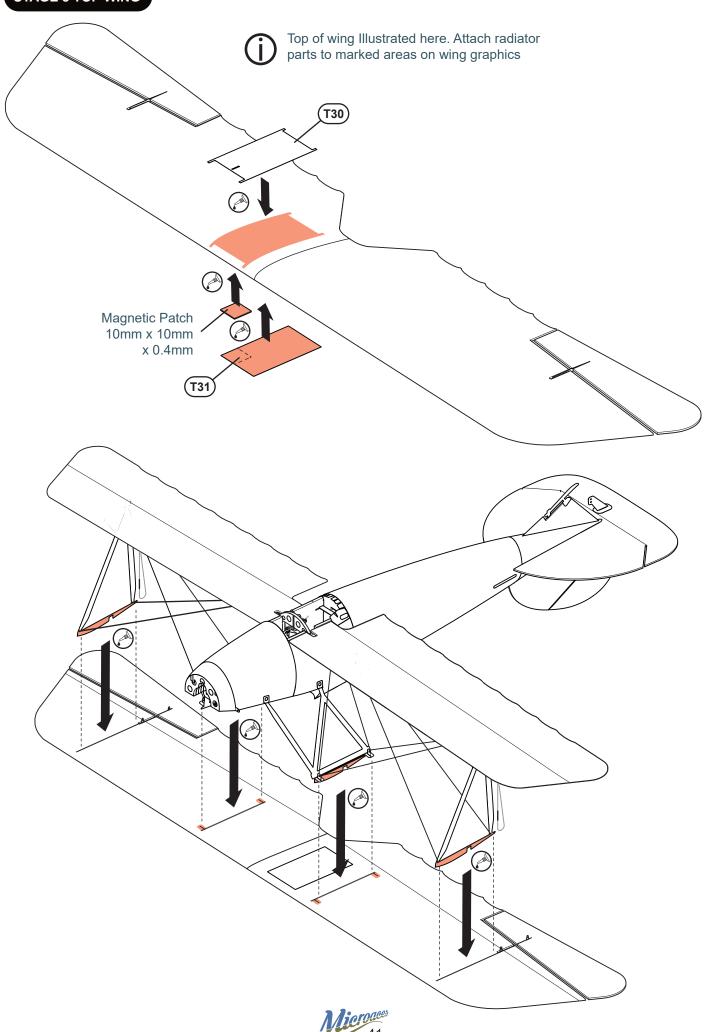


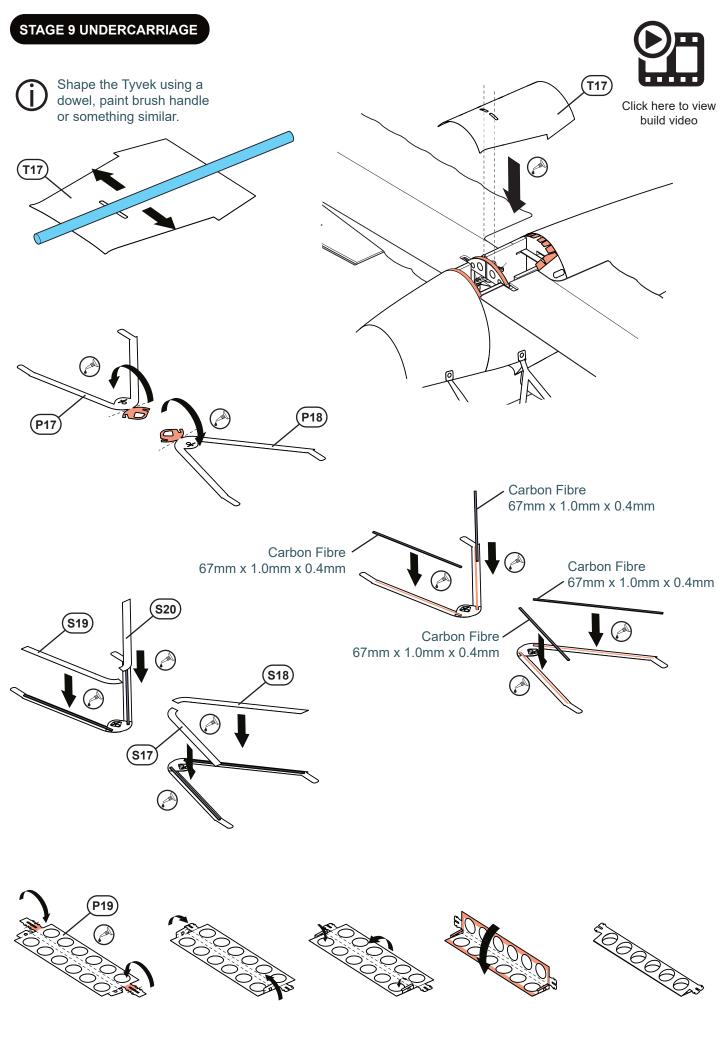


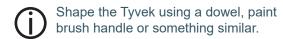
STAGE 8 TOP WING

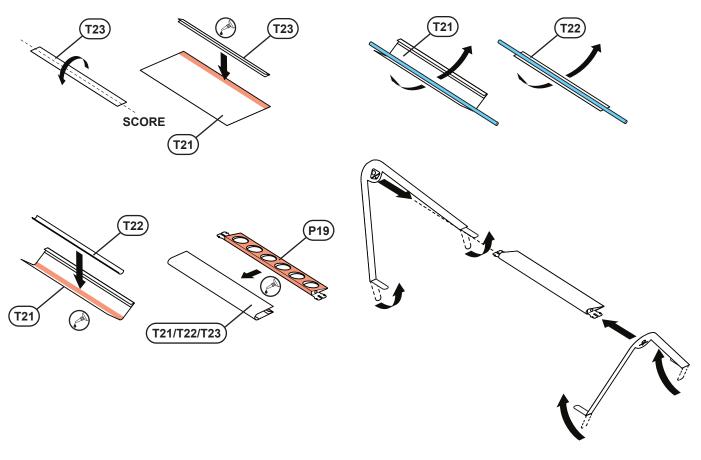


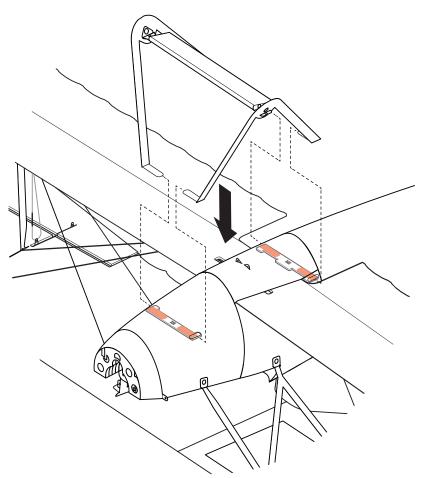
STAGE 8 TOP WING

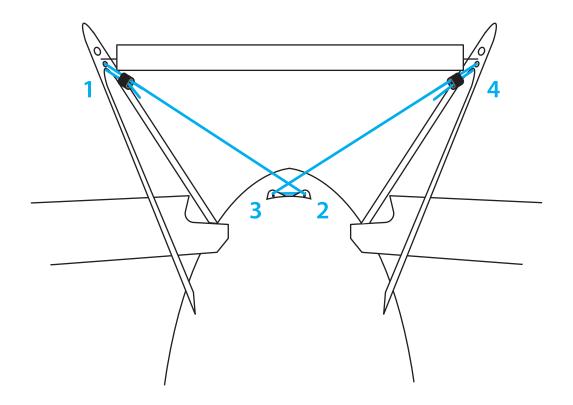


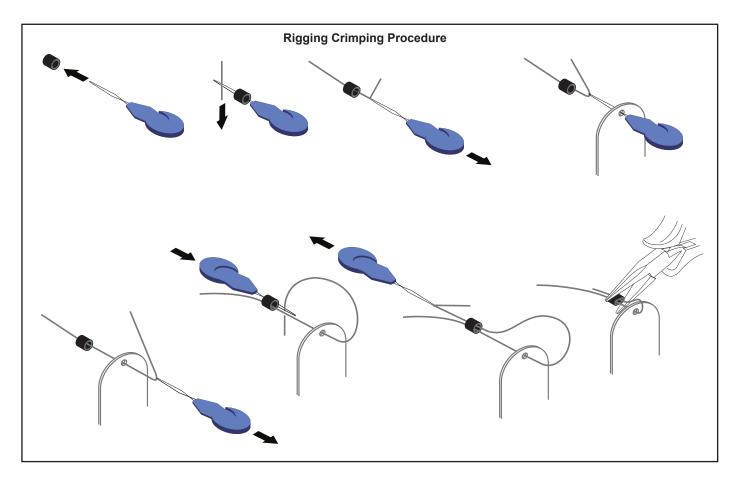






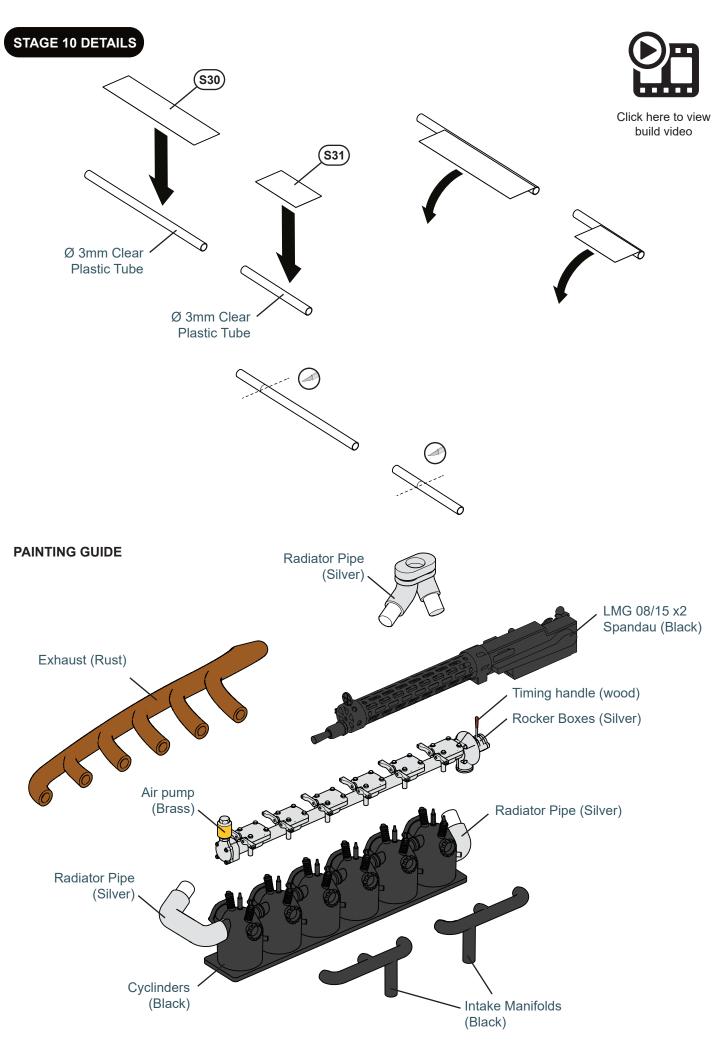


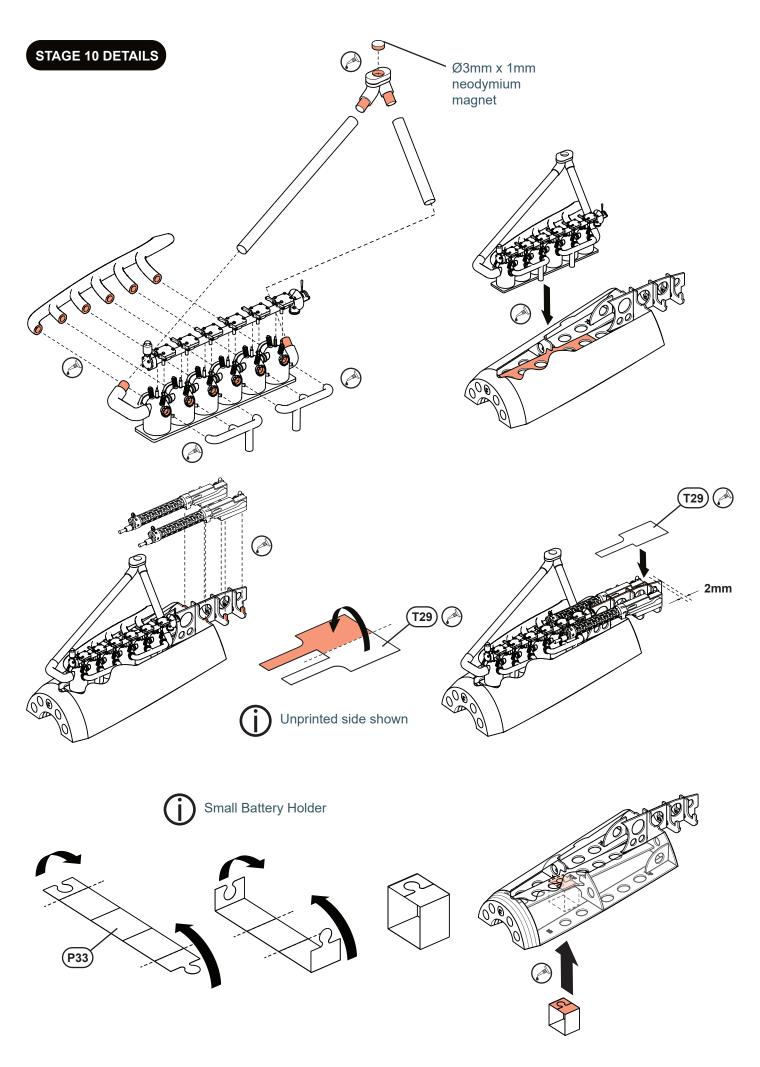






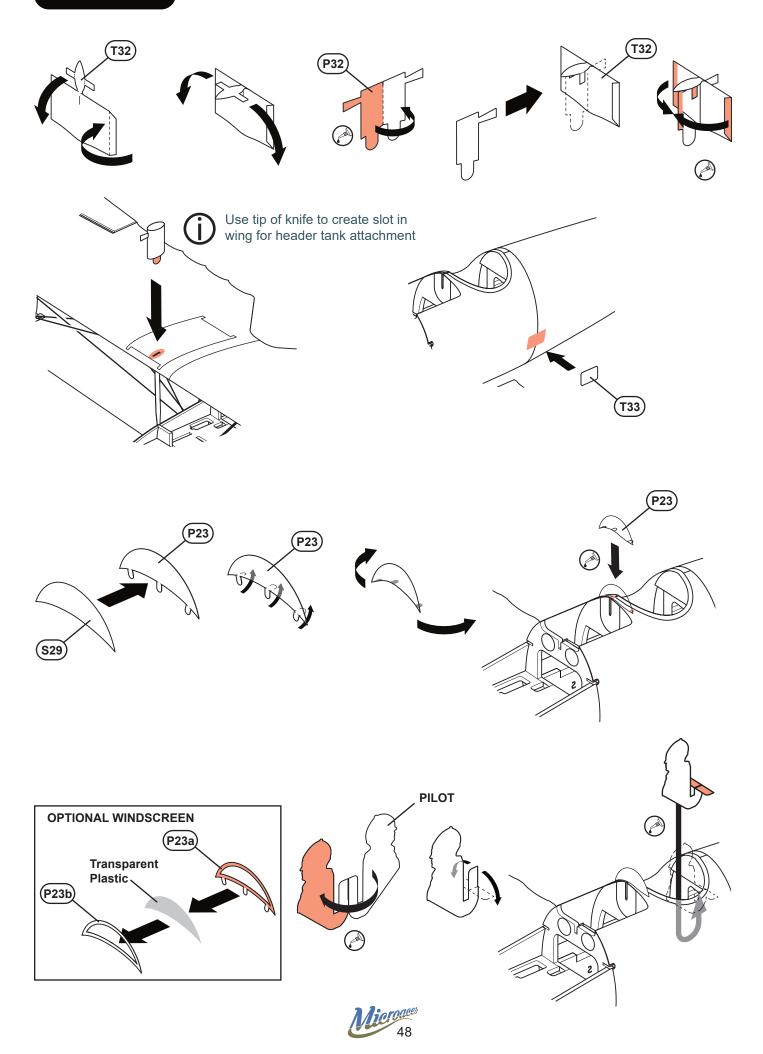
STAGE 9 UNDERCARRIAGE P26) Always score the UNPRINTED side of the part unless otherwise sttaed Z13 (A) **Z14** (Z12) (P25) (A) **SCORE** (P) (D21 Carbon Fibre 1.5mmØ x 100mm DO NOT GLUE TO AXLE AT THIS STAGE Assemble each wheel onto the axle (Z13) temporarily to ensure good alignment D22) (P25) (A) (D21) P26 Time **Z14** 2 Hours Carbon Fibre Rod 1.5mmØ x 100mm







STAGE 10 DETAILS

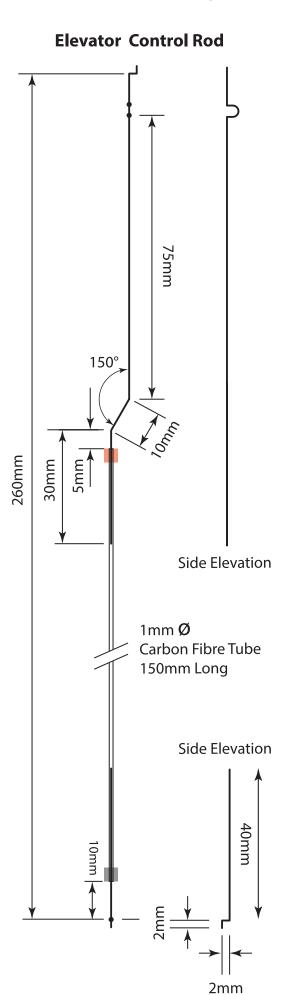




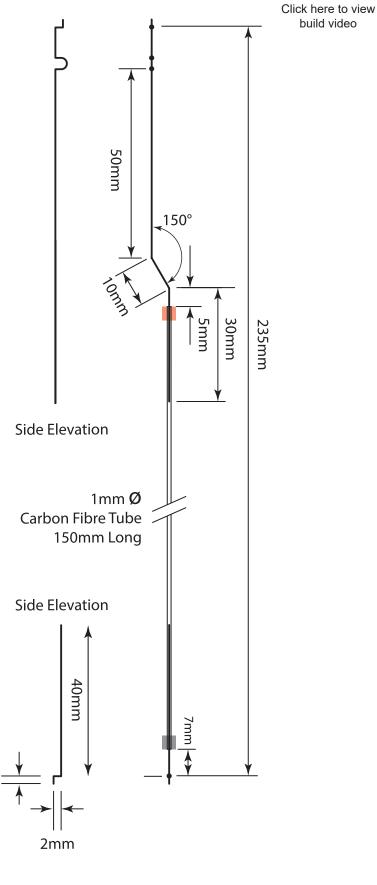
Create control rod from supplied wireforms & carbon fibre tubes. Use wire cutters and miniature pliers for best results

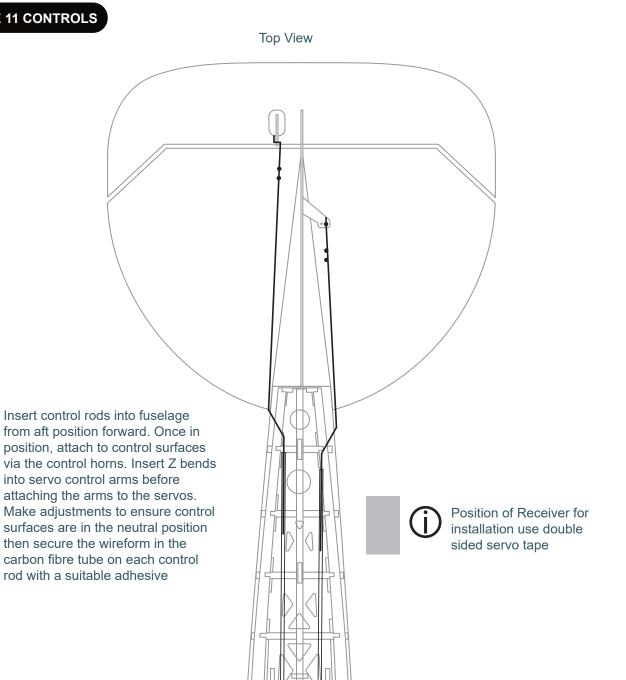


build video

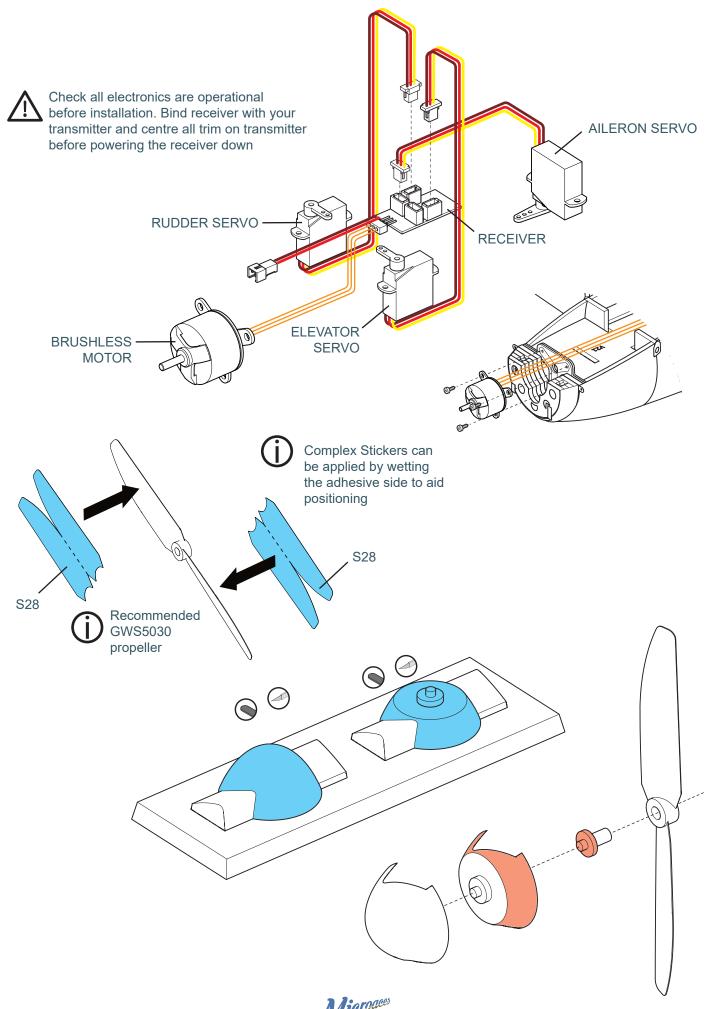


Rudder Control Rod

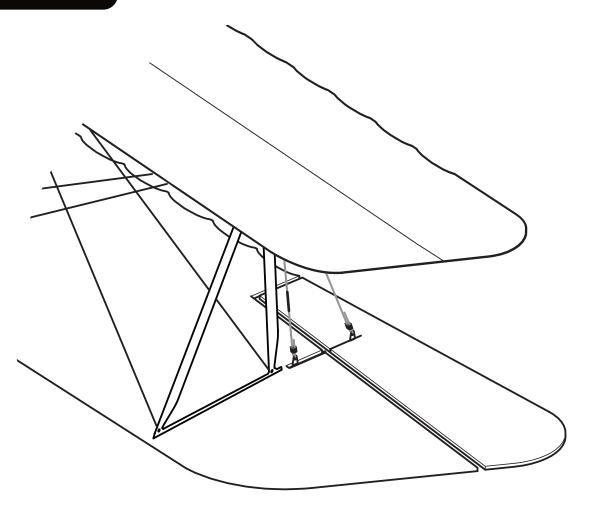


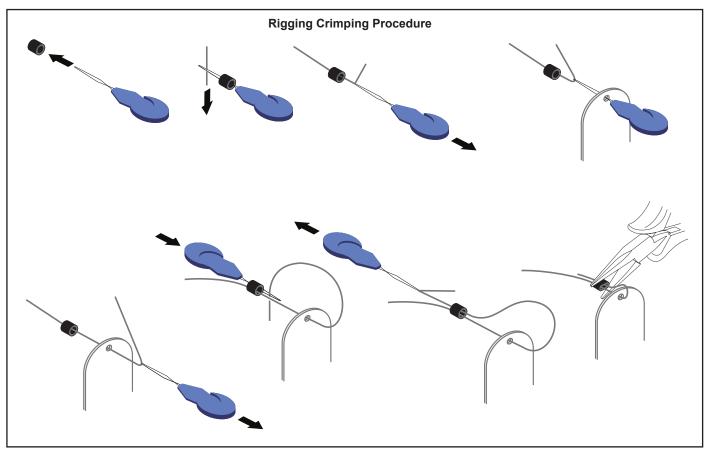


CONFIGURATION OF ELECTRONICS FOR THE ALBATROS DV

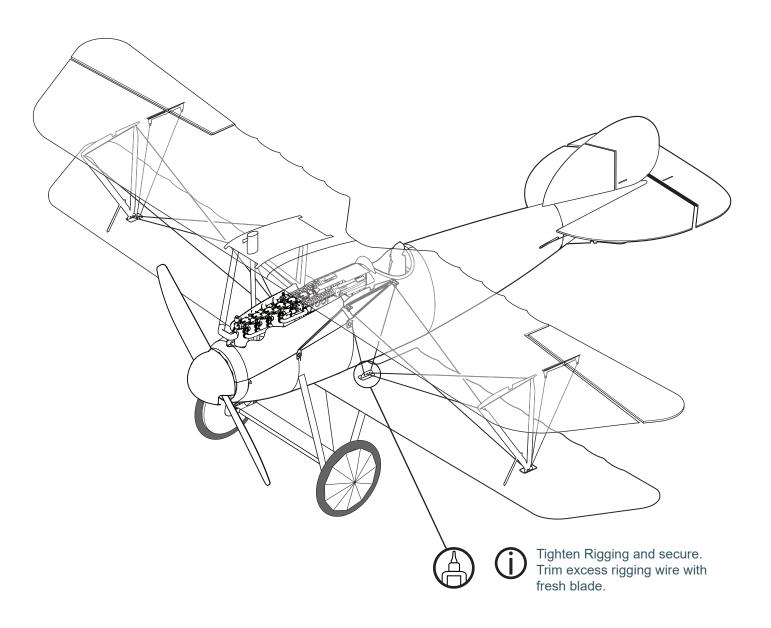


STAGE 11 CONTROLS





STAGE 11 CONTROLS



CENTRE OF GRAVITY

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 balances at this point. Before adding any weight it is advisable to perform a glide test. Add weight accordingly to obtain a smooth glide.

