

ASSEMBLY GUIDE



Hansa-Brandenburg



Introduction

Thank you for purchasing this Microaces kit. Designed using innovative ideas, advanced materials and detailed aircraft illustrations, this scale model 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 (first) 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 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







Sheet Parts	 2 x 2mm Laser cut Depron airframe/floats 3 x 1mm printed & laser cut Depron fuselage/floats 2 x 1mm printed & laser cut Depron flight surfaces 2 x 200 micron printed & laser cut polypropylene 1 x polyester sticker sheet 1 x 0.8mm plywood parts 1 x 3mm plywood parts (optional display stand)
Loose Parts	4 x 3mmØ x 1mm neodymium magnets 2 x 4mmØ x 1mm neodymium magnets 4 x 500mm x 0.4mm x 1mm carbon fibre strip 1 x 200mm x 2mmØ carbon fibre tube 1 x 100mm piano wire 1 x piano wire elevator control rod 1 x piano wire rudder control rod 2 x profile pilot & crew figure 1 x Spectra rigging wire 2 x rubber band (white) 1 x self adhesive ballast strip 1 x 100mm x 6mmØ plastic tube (clear) 1 x 70mm x 5mmØ plastic tube (black) 1 x 50mm x 3mmØ plastic tube (clear)

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

UHU por foam safe adhesive (For foam & plastic)

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

RECOMMENDED ELECTRONICS

Microaces AIO 5 channel receiver

Microaces Micro Motor & Gearbox PLUS

GWS 5030 propeller with prop adapter.

150 - 180mAh 3.7v Lipo Battery 45c with UM connector

Microau





Microace 4



Microaces 5

1mm DEPRON FOAM









Microaces 7

PLASTIC PARTS





PLASTIC PARTS





STICKERS



Microace 10

0.8mm PLYWOOD



3mm PLYWOOD (optional extras)





SCORING & BEVELING GUIDE #1

Method for scoring 1mm Depron









SCORING & BEVELING GUIDE #4



Shallow Bevel NOT TO SCALE Shallow Bevel

Z15

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.

























STAGE 2 FUSELAGE































STAGE 6 STRUTS























in this step and can spin freely







STAGE 10 ENGINE

STAGE 10 ENGINE

STAGE 10 ENGINE

Microace 50

Microaces 51

STAGE 14 ELECTRONICS

Ensure receiver servos are centered before installing. To do this, bind to transmitter and center trims on Elevator & Rudder (and/or Aileron if mixed to rudder on transmitter).

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!

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.

The control surfaces are moderately effective on the Hansa-Brandenburg W.12 Set your transmitter (Tx) control rates to low or if you have a computerised Tx, set the expo to 20% for both the rudder and the elevator.

Feel free to adjust these to suit your flying style after the maiden flight!

STAGE 19 DISPLAY STANDS/TROLLEYS (OPTIONAL EXTRAS)

