

## **ASSEMBLY GUIDE**



# Scrappee Patriot II



Introduction	Thank you for purchasing this Microaces A advanced materials and detailed aircraft illu of building enjoyment and many more excit to familiarise yourself with these instruction way, following a sequence of steps that sho and flyable model.	ero Kit. Designed using innovative ideas, ustrations, this aircraft will bring you hours ting flying hours too. Please take your time is as the aircraft assembles in a very unique buld be adhered too to ensure a satisfactory
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 <b>unsuitable</b> 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	
Кеу	Note (Information)	Attention
	P01 Part Number	Do Not Glue
	Contact Adhesive (Foam Safe)	Score before assembly
	Sanding Required	Cut
	Area of adhesion for glue	Refer to Video tutorial for more info



#### **KIT PARTS**

Sheet Parts	<ul> <li>1 x 2mm Laser cut Depron airframe</li> <li>1 x 1mm printed &amp; laser cut Depron fuselage</li> <li>2 x 1mm printed &amp; laser cut Depron flight surfaces</li> <li>1 x 200 micron printed &amp; laser cut polypropylene</li> <li>1 x polyester sticker sheet</li> <li>1 x 0.8mm laser cut plywood motor mount</li> </ul>
Loose Parts	<ul> <li>1 x piano wire elevator control rod</li> <li>1 x piano wire rudder control rod</li> <li>2 x 3D printed wheel hubs</li> <li>2 x Sponge Tyres</li> <li>4 x Ø 4mm x 1mm neodymium magnets</li> <li>4 x Ø 3mm x 1mm neodymium magnets</li> <li>1 x 160mm x 0.4mm x 1mm carbon fibre strip</li> <li>1 x 105mm or 100mm carbon fibre Ø 1mm rod</li> <li>1 x Self adhesive Hook &amp; Loop strips</li> </ul>

#### 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)



2mm DEPRON FOAM



### PLASTIC PARTS





1mm DEPRON FOAM



STICKERS

Patriot II



Scrappee Classic

Classic

Microaces 5

### 1mm DEPRON FOAM

Classic



#### 1mm DEPRON FOAM



0.8mm PLYWOOD







## SCORING & BEVELING GUIDE #2

#### Method for scoring 1mm Depron

Using a straight edge as a guide, score the depron 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 Depron prior to processing any kit components.





\* Z11 not illustrated





\* Z11 not illustrated



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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 part and attach immediately to allow some wiggle time to get the parts lined up. Set aside to cure.











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★ Parts included in Scrappee flight pack. Not included in kit only option



#### **STAGE 9 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 piont 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.



View from Above

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

