



Update No.1

Composite-ARF Extra 330L, 2.3 m

Introduction

Composite-ARF has a policy of constant improvement, wherever possible, and your customer feedback about our products helps us to issue update's or improvements to our airplane kits and instruction manuals, whenever it is necessary.

With the success of our new 2.3m 'Mini-Extra' and the many positive comments from customers, this short update to the original (version 1) Instruction Manual covers the most frequently asked questions, as well as a few small points that we missed, and includes an updated hardware list of the parts that are included with the kit.

Please accept our apologies for any inconvenience caused by these small corrections and updates.

All of these will be incorporated into a new version of the Instruction Manual shortly, which will also be available as a .pdf that can be downloaded from our website.

We appreciate any comments on our products, and you can email these to us at:
feedback@composite-arf.com

For technical help you should contact your Rep., or alternatively email us at:
techsupport@composite-arf.com

We will do our best to help you as quickly as possible.

Your Composite-ARF team.

Landing Gear

Contrary to the original Instructions, we only recommend fitting a 4" (100mm) diameter wheel, and the type from Dubro fits into the moulded wheelpant perfectly.

It is just possible to assemble all the spacing washers on the axle and wheel and squeeze it all into the wheelpant carefully, but it is far easier to drill an 9mm (approx.3/8") Ø hole in the outside of the wheelpant (in line with the hole for the axle on the inner face) and insert the axle bolt through this hole. The order of fitting the washers and wheel onto the axle, to centre the wheel in the wheelpant, is clearly described in the original instructions, except that you should use 3 or 4 washers instead of the 6mm wheel-collar shown in the diagram, depending on the size and type of wheel used.



The wheelpant has a moulded-in recess in them that matches the shape of the carbon-fibre undercarriage legs, so it is not necessary to have any additional fixing to hold them in the correct position. However, depending on how accurately the hole for the axle is drilled in the bottom of the main leg, it is possible that the wheelpant can sit at a slight angle to the ground. To prevent this glue a small square (approx. 15mm x 15mm) of scrap 3mm plywood inside the wheel pant 25mm above the axle hole and glue an M3 blind nut to it. Then secure the mainleg to the wheel pant by using an M3 bolt through the leg. Do *not* use a bolt larger than M3, as the larger diameter hole in the leg can weaken it.



Canopy Frame

The 4 slots that you mill in the fuselage for the milled plywood pieces that retain the front and back of the canopy frame to the fuselage should be 4 - 4.5mm wide, not 3mm wide as stated.

Engine Installation

The moulded motor dome supplied with the kit is the only one available, and is suitable for all the popular 50 - 75cc engines for this aircraft.

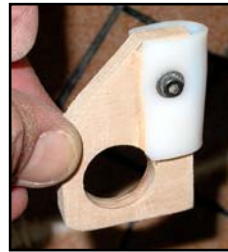
Before starting the fitting of the motor dome to the fuselage, look at the carbon rovings on the inside surface and check that there is no gap between them and the fibreglass in the positions where the lower 4 x M4 mounting bolts fix it to the firewall. If there are any gaps, we recommend that the area is roughened up with coarse sandpaper, and the gaps filled with a mixture of slow (not 5 or 30 minute) epoxy thickened with milled fibre.

Then place the motor dome upside down on a white-board, or other flat surface that has been covered with clear tape and waxed, to prevent it sticking the board. Weight the motor dome down, and leave to cure overnight. This ensures that you keep the level mounting points needed for accurate installation of the motor dome against the firewall.



Mini-Pipe security

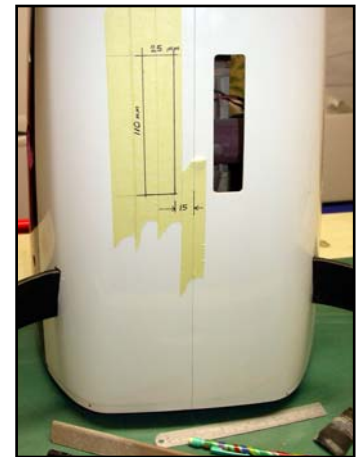
To be 100% sure that the mini-pipe cannot move backwards and come off the header you can fit a small 6mm thick plywood block behind it, and cover the front edge of it with a piece of teflon coupler tube, retained with a single M3 bolt as shown. Note that this photo is taken of our big Extra, not our 2.3m, but the idea is just the same.



Exhaust System Air Vents

Omitted from the original instructions were the air vents that you must cut in the bottom of the fuselage behind the exhaust canister/mini-pipe, to allow the warm air to exit the fuselage! Sorry.

Two slots should be cut through the underneath of the fuselage, of 110mm long (4.25") by 25mm wide (1"), as shown here. This is enough area for venting the air from the single mini-pipe used on the DA-50 shown in the instructions. The position of the slots is not very critical, but you should leave a gap of 30mm between them (15mm both sides of the central seam), so that you don't cut through the central jointing tape of the fuselage. The front of the slots should be 200mm (8") behind the front face of the firewall.



Hardware List (revised)

Art.-Nr.	Anzahl Beschreibung Deutsch	Description English
2	Radschrauben M 6 x 55mm	Screws for axles, M6 x 55mm
6	Unterlegscheiben M 6,4	Washers 6.4 mm
37	Blehschrauben 2.2 x 9.5 mm	Sheet metal screws 2.2 x 9.5 mm
2	Blehschrauben 2.9 x 13 mm	Sheet metal screws 2.9 x 13 mm
8	Inbusschrauben M3 x 12 mm	Allen screws M3 x 12 mm
4	Inbusschrauben M3 x 16 mm	Allen screws M3 x 16 mm
5	Inbusschrauben M4 x 15 mm	Allen screws M4 x 15 mm
4	Inbusschrauben M6 x 20 mm	Allen screws M6 x 20 mm
2	Gewindestäbe M3 x 45 mm	All thread M3 x 45 mm
6	Gewindestäbe M3 x 60 mm	All thread M3 x 60 mm
1	Packung 0.8 mm Stahl-Litze x 2.8m	Pack steel cable 0.8 mm dia.x 2.8m
2	Schraub-Ösen M3	2 thread ends M3 for steel cable 0.8
4	Quetschhülsen Messing, id 2mm	Crimp tubes, 2 mm inside dia.
4	Kugelköpfe M3	Ball links M3
10	Stopmuttern M3	Lock nuts M3
18	Muttern M3	M3 nuts
4	Muttern M6	Nuts M6
4	Einschlagmuttern M3	Blind nuts M3
5	Einschlagmuttern M4	Blind nuts M4
6	Kunststoff-Raendelmutter M6	Plastic nuts M6
2	Stopmuttern M6	Lock nuts M6
12	Gabelköpfe M3	Spring steel clevises M3
5	Unterlegscheiben 4mm	Washers 4 mm
4	Senkkopfschraube 3 x 20mm	Countersunk screw 3 x 20mm