

	STANDARD FORM	Mod No. C42/011
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	Modification Leaflet	Compiled : M.Scruby
	Issue 1	Approved : A. Moore

TITLE : **65 Litre Fuel Tank.**

APPLICABILITY : Ikarus C42, FB80K, FB100K, FB80VLA, FB100VLA
 Mod Type : New Build and Retro-fit

1. Introduction

The fitment of a 65l fuel tank is now standard on the Type Approved Ikarus C42 FB80 and FB100 microlights. The modification C42/011 has been approved by the UK CAA through AAN29066. It is desired to approve this modification for the LAA homebuilt versions of the Ikarus C42 for both new-build projects and retrofit to existing aircraft.

The modification is a direct replacement of the 50l tank and its 2 securing straps with the 65l tank and 2 longer securing straps.

2. Parts List

Qty	Part No.	Description	Source
1	T 0390	65l fuel tank	Aerosport Ltd.
2	42A 2506	Long straps	Aerosport Ltd.

3. Actions

To gain good access to the mounting points remove the top shell of the fuselage using the following steps.

- 3.1 Disconnect the push rods from the rudder pedals to release the tension in the rudder cables.
- 3.2 Disconnect the rudder cables from the rudder control horn and remove the rudder.
- 3.3 Remove the M4 fuselage shell bolts.
- 3.4 Remove the M4 roof panel bolts to allow the top fuselage shell to be lifted off.
- 3.5 Drain the fuel tank and disconnect the filler hose, vent hose, lower supply hose, drain hose and the wiring for the sender unit.
- 3.6 Undo the straps and remove the tank.
- 3.7 Flush out the new 65 litre tank using 1 litre of fuel.
- 3.8 Fit the new tank and re-attach all the connections. The tank fitting is identical to that of the old 50 litre model.

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- 3.9 Check all connections are tight and fill the new tank and check for any leaks.
- 3.10 Re-fit top shell, rudder and roof panel.
- 3.11 Re-attach rudder cables to rudder using new split pins.
- 3.12 Re-attach push rods to rudder pedals ensuring to fit safety pins.

4. Flight Test and Special Inspections

- 4.1 Ground run engine to confirm correct operation before flight.
- 4.2 An air test is to be conducted to confirm satisfactory operation and security throughout the operating envelope. The air test to be authorised under a PMR by a LAA Inspector.
- 4.3 Amend operators handbook with new tank size.

5. Weight and Balance

- 5.1 Update fuel/weight trade placard to reflect new tank size.
- 5.2 Amend weight and balance records by calculation to reflect the following changes :

Weight Change	Moment Change
-0.5 kg	-478.8 kgmm

6. Certification

- 6.1 The LAA Inspector should make an appropriate log book entry for this modification.