

Issued on behalf of the UK CAA by the BMAA, UK CAA organisation approval ref. DAI/8909/84

Type:	<b>EuroFOX 2K (tail wheel gear) and EuroFOX 3K (tricycle gear)</b>	
(1) MANUFACTURER	Ascent Industries Ltd - AI/10070/15 (T/A EuroFOX Aviation), The Hangar, Wanshurstgreen Farm, Battle Lane, Marden, Kent, TN12 9DF.	
(2) UK IMPORTER	N/A	
(3) CERTIFICATION	BCAR Section S Issue 7, CS-VLA Parts C & D Air Navigation (Amendment) Order 2021/879 art.10(c) (August 19, 2021) microlight definition up to 600kg.	
(4) DEFINITION OF BASIC STANDARD	EuroFOX Aviation Build Standard 1 (BS-1)	
(5) COMPLIANCE WITH THE MICROLIGHT DEFINITION		
(a) MTOW	450kg/472.5kg <sup>1</sup> /499kg <sup>2</sup> /525kg <sup>2</sup> /560kg <sup>2</sup>	
(b) Number of seats	2	
(c) Maximum Wing Loading	39.5 kg/m <sup>2</sup> /41.4 kg/m <sup>2</sup> /49.1 kg/m <sup>2</sup>	
(d) Stall speed, V <sub>so</sub>	34 kt <b>CAS</b> @ 450 kg/472.5 kg 38 kt <b>CAS</b> @ 560 kg	
(e) Permitted range of occupant weights	0 - 100 kg (each) (min cockpit load 55 kg)	
(f) Typical Empty Weight (ZFW)	266 – 292.5kg 325kg (Rotax 915iS)	
(g) ZFW + 172kg crew + 1hr fuel	456 – 482.5kg (Rotax 912UL-01 & 912iS Sport 18kg/hr, 912ULS-01 19kg/hr) 527kg (Rotax 915iS)	

<sup>1</sup> With approved Airframe Mounted Total Recovery Parachute System (AMTPRS).

<sup>2</sup> Mod 41 compliant aircraft only.

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(h)	ZFW + 86kg pilot + full fuel (86 litres/62kg)	414 – 440.5kg 473kg (Rotax 915iS)																		
(i)	Max ZFW at initial permit issue	<table> <tr> <td><u>MTOW</u></td> <td>450kg/472.5kg<sup>1</sup></td> </tr> <tr> <td>Rotax 912UL-01</td> <td>270kg/292.5kg<sup>1</sup></td> </tr> <tr> <td>Rotax 912iS Sport</td> <td>270kg/292.5kg<sup>1</sup></td> </tr> <tr> <td>Rotax 912ULS-01</td> <td>269kg/291.5kg<sup>1</sup></td> </tr> <tr> <td><u>MTOW</u></td> <td>499kg/ 525kg<sup>1</sup> / 560kg</td> </tr> <tr> <td>Rotax 912UL-01</td> <td>301kg/ 327kg<sup>1</sup> /342kg<sup>2</sup></td> </tr> <tr> <td>Rotax 912iS Sport</td> <td>301kg/ 327kg<sup>1</sup> /342kg<sup>2</sup></td> </tr> <tr> <td>Rotax 912ULS-01</td> <td>300kg/ 326kg<sup>1</sup> /341kg<sup>2</sup></td> </tr> <tr> <td>Rotax 915iS</td> <td>- - 330kg</td> </tr> </table>	<u>MTOW</u>	450kg/472.5kg <sup>1</sup>	Rotax 912UL-01	270kg/292.5kg <sup>1</sup>	Rotax 912iS Sport	270kg/292.5kg <sup>1</sup>	Rotax 912ULS-01	269kg/291.5kg <sup>1</sup>	<u>MTOW</u>	499kg/ 525kg <sup>1</sup> / 560kg	Rotax 912UL-01	301kg/ 327kg <sup>1</sup> /342kg <sup>2</sup>	Rotax 912iS Sport	301kg/ 327kg <sup>1</sup> /342kg <sup>2</sup>	Rotax 912ULS-01	300kg/ 326kg <sup>1</sup> /341kg <sup>2</sup>	Rotax 915iS	- - 330kg
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Rotax 915iS	- - 330kg																			

## (6) POWER PLANTS

Designation	EuroFOX 2K/3K		
Engine Type	Rotax 912UL-01	Rotax 912ULS-01	Rotax 912ULS-01
Reduction Gear	2.27:1	2.43:1	2.43:1
Exhaust System	Stainless steel collector box with flexible joints		
Intake System	Airbox with selectable carburettor hot air supply		
Propeller Type	Duc Swirl 3 blade	Duc Swirl 3 blade	Woodcomp Propuls AE174 3 blade
Propeller Dia x Pitch	166cm x 21° @ 20cm from tip	173cm x 23.5° @ 20cm from tip	174cm x 27° @ 37cm from tip
Max Static RPM	5000	5000	5000
Noise Type Cert No.	195M issue 3	195M issue 3	195M
AAN approving configuration	29437	29437	BMAA-1083

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Designation	EuroFOX 2K/3K		EuroFOX 2K	EuroFOX 3K
Engine Type	Rotax 912iS Sport	Rotax 912iS Sport	Rotax 915iS	Rotax 915iS
Reduction Gear	2.43:1	2.43:1	2.54:1	2.54:1
Exhaust System	Stainless steel collector box with flexible joints			
Intake System	Airbox air intake			
Propeller Type	Duc Swirl 3 blade	Woodcomp Propuls AE174 3 blade	Duc Flash-3 4 Blade	Duc Flash-3 4 Blade
Propeller Dia x Pitch	173cm x 23.5° @ 20cm from tip	174cm x 27° @ 37cm from tip	185cm x 24° @ 25cm from tip	175cm x 25° @ 25cm from tip
Max Static RPM	5000	5000	5350	5350
Noise Type Cert No.	195M	195M	N/A	N/A
AAN approving configuration	BMAA-1087	BMAA-1087	BMAA-1103	BMAA-1130

## (7) MANDATORY LIMITATIONS

(a)	Maximum Take-off Weight (MTOW)	450kg/472.5kg <sup>2</sup> /499kg <sup>3</sup> /525kg <sup>3</sup> /560kg <sup>3</sup>
(b)	CG Limits	Aft limit 425mm AoD Forward limit 260mm AoD
(c)	CG Datum	50mm fwd of wing leading edge at root
(d)	Cockpit Loadings	min cockpit load 55 kg max occupant weight 100 kg (each)
(e)	Never exceed speed, V <sub>NE</sub>	136 mph/118 kt IAS (450kg/472.5kg) 155 mph/135 kt IAS (499kg/525kg/560kg)
(f)	Manoeuvring speed, V <sub>A</sub>	93 mph/81 kt IAS (450kg/472.5kg) 103 mph/90 kt IAS (499kg/525kg/560kg)
(g)	Flap limiting speed, V <sub>FE</sub>	76 mph/66 kt IAS (450kg/472.5kg) 96 mph IAS/83 kt IAS (499kg/525kg/560kg)

<sup>2</sup> With approved Airframe Mounted Total Recovery Parachute System (AMTPRS).

<sup>3</sup> Mod 41 compliant aircraft only.

BRITISH MICROLIGHT AIRCRAFT ASSOCIATION (BMAA)

MICROLIGHT TYPE APPROVAL DATA SHEET (TADS)

NO: BM-85 ISSUE: 7



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- |     |                      |   |
|-----|----------------------|---|
| (h) | Permitted manoeuvres | Maximum bank angle 60°<br>Non-Aerobatic<br><br>450kg/472.5kg<br>Normal acceleration limits, +4g /-2g<br><br>499kg/525kg/560kg<br>Normal acceleration limits, +4g /-1.5g |
| (i) | Fuel Contents        | 86 litres            85 litres (Max Usable)<br>46 litres            45 litres (Max Usable)  |
| (j) | Power plant          |   |

Engine	Rotax 912UL-01	Rotax 912ULS-01	Rotax 912iS Sport	Rotax 915iS
Max RPM	5800 (5 min) 5500 (continuous)	5800 (5 min) 5500 (continuous)	5800 (5 min) 5500 (continuous)	5800 (5 min) 5500 (continuous)
Max Coolant	120°C	120°C	120°C	120°C
Max EGT	880°C	880°C	950°C	950°C
Fuel spec	90 RON minimum unleaded to EN 228 Normal, Super or Super Plus, AVGAS 100LL, UL91. (Unleaded preferred – see engine manual)	95 RON minimum unleaded to EN 228 Super or Super Plus, AVGAS 100LL, UL91. (Unleaded preferred – see engine manual)	95 RON minimum unleaded to EN 228 Super or Super Plus, AVGAS 100LL, UL91. (Unleaded preferred – see engine manual)	95 RON minimum unleaded to EN 228 Super or Super Plus, AVGAS 100LL, UL91. (Unleaded preferred – see engine manual)
Engine oil spec	RON 424, SAE 10 W-40 (See engine manual)	RON 424, SAE 10 W-40 (See engine manual)	RON 424, SAE 10 W-40 (See engine manual)	RON 424, SAE 10 W-40 (See engine manual)
Oil pressure	Normal 2-5 bar above 3500rpm Min 0.8 bar below 3500rpm Max 7 bar	Normal 2-5 bar above 3500rpm Min 0.8 bar below 3500rpm Max 7 bar	Normal 2-5 bar above 3500rpm Min 0.8 bar below 3500rpm Max 7 bar	Normal 2-5 bar above 3500rpm Min 0.8 bar below 3500rpm Max 7 bar
Oil Temp	50 - 140°C	50 - 130°C	50 - 130°C	50 - 130°C
Manifold pressure	N/A	N/A	N/A	Min 60 hPA Max 1730 hPA
Fuel pressure	0.15 - 0.4bar* *0.5bar with fuel pump S/N 11.0036 or later	0.15 - 0.4bar* *0.5bar with fuel pump S/N 11.0036 or later	Min 2.8 bar Max 3.2 bar	Min 2.9 bar Max 3.2 bar

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## (8) INSTRUMENTS REQUIRED

ASI	Altimeter	Slip ball	RPM	Coolant Temp.	Oil Temp.	Oil Pressure	Fuel Contents
0-150mph/130kt <sup>4</sup> or 0-160mph/140kt <sup>5</sup> Minimum	Required	Required	0-6000 rpm minimum	Required	Required	Required	Required

Additional instruments required for the 912iS Sport and 915iS are: EGT, volts and fuel pressure (normally included in the mandatory EMU for the 912iS Sport). Manifold Pressure also required for 915iS.

Carbon Monoxide detector required if cabin heater installed (electronic detector with audible warning is highly recommended).

A compass is recommended.

## (9) CONTROL DEFLECTIONS

Elevator	UP:	30° ±2°	Elevator trim tab	UP:	30° ±3°
Elevator	DOWN:	27° ±2°	Elevator trim tab	DOWN:	30° ±3°
Ailerons	UP:	18° ±2°	Rudder	LEFT:	27° ±3°
Ailerons	DOWN:	8.5° ±1°	Rudder	RIGHT:	27° ±3°
Flaperons	UP:	0° ±5°			
Flaperons	DOWN:	20° ±5°			

Ailerons neutral/flaperons up when flap trailing edge 46mm vertically below continuation of wing root under surface. Refer to EuroFOX neutral position of flaperon drawing for details.

## (10) PILOT'S NOTES, MAINTENANCE MANUALS, REFERENCES

10.1 Manuals approved for use with this aircraft

- (a) [EuroFOX Aviation Pilot Operating Handbook – EuroFOX Revision 7 dated 22 Jan 2017 or later approved revision for 450/472.5 kg AUW.](#)

[EuroFOX Aviation Pilot Operating Handbook – 560kg iss 7.0 or later approved revision for 560kg AUW.](#)

<sup>4</sup> 450kg AUW or 472.5kg AUW with approved Airframe Mounted Total Recovery Parachute System (AMTPRS).

<sup>5</sup> Mod 41 compliant aircraft only.

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- (b) [EuroFOX Aviation EuroFOX Microlight Maintenance Manual Issue 4 dated 2 Feb 2017 or later approved revision.](#)

[EuroFOX Maintenance Schedule \(checklist only\)](#)

- (c) Engine, propeller and other fitted equipment manufacturer's Operating and Maintenance Manuals as appropriate to fitted powerplant and equipment, at their current issues.

10.2 The following placards are to be fitted:

- (a) Flight Limitations Placard (to be visible to the pilot)  
See Annex D.
- (b) Engine Limitations Placard (to be located near to the engine instruments)  
See Annex D.
- (c) Fuel Limitations Placard (to be located near to fuel tank sight gauges)  
See Annex D.
- (d) Fuel/Cockpit Load Trade-off Placard (to be visible to the pilot)  
See Annex D
- (e) ASI Markings  
See Annex D.
- (f) Switches  
See Annex D.

(11) MANDATORY MODIFICATIONS / SERVICE BULLETINS / AIRWORTHINESS DIRECTIVES ETC.

See Annex A.

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## (12) MINIMUM PERFORMANCE AT MAX TAKE-OFF WEIGHT

See Annex E.

Rate of Climb: MAUW 450kg/472.5kg  
 Rotax 912UL-01 960 fpm at 72 mph/63 kt **IAS**  
 Rotax 912ULS-01 1100 fpm at 79 mph/68 kt **IAS**  
 Rotax 912iS Sport 1100 fpm at 79 mph/68 kt **IAS**

MAUW 499kg/525kg/560kg  
 Rotax 912UL-01 700 fpm at 75 mph/65 kt **IAS**  
 Rotax 912ULS-01 900 fpm at 75 mph/65 kt **IAS**  
 Rotax 912iS Sport 900 fpm at 75 mph/65 kt **IAS**  
 Rotax 915iS 1500 fpm at 75 mph/65 kt **IAS**

Stall or Minimum Flying Speed: 35 mph/30 kt **IAS** at MTOW (450 & 472.5kg) /idle/landing configuration.  
 44 mph/38 kt **IAS** at MTOW (560kg) /idle/landing configuration.

Issue History

<u>Issue</u>	<u>Reason and Signatory</u>
1	03/08/2016 Initial issue.  A.L. Bines
2	4/11/2016 Added Woodcomp Propuls AE174 3-blade propeller on Rotax 912ULS-01 approved by AAN BMAA-1083. Added service bulletins SB1 and SB2.
3	04/07/2019 Added Rotax 912iS Sport approved by AAN BMAA-1087 Added service bulletins SB3 and SB4 Miscellaneous formatting changes incl. updated 3K 3-view Revisions re. 40 litre tank option Updated POH and SB website references
4	18/11/2021 AUW Increase to 560kg mod 041 approval AAN BMAA-1102 Applicable to Rotax 912ULS and Rotax 912iS-Sport variants. Added optional mods 031, 034 & 039. POH issue 7 added & Autopilot Placard added - Annex D (g). Annex E Points for special attention added.

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<u>Issue</u>		<u>Reason and Signatory</u>
5	23/03/2022	AUW Increase to 560kg mod 041 approval AAN BMAA-1102 Applicable to Rotax 912UL variant. Added Max Static RPMs (all variants), POH 560kg issue 3, AMM Checklist. Some footnotes + Annex D (c) amended.
6	25/04/2023	Ascent Modifications: 033 Eurofox Tug, 040 Rotax 915iS, 043 Matco 8" Tailwheel, 044 Eurofox Tug with Tost Retractable Winch, 045 Kanardia AP.
7	17/01/2024	499kg & 525kg MTOW options as per updated mod 041. POH ref updated. ANNEX B – Ascent Modifications: 046.

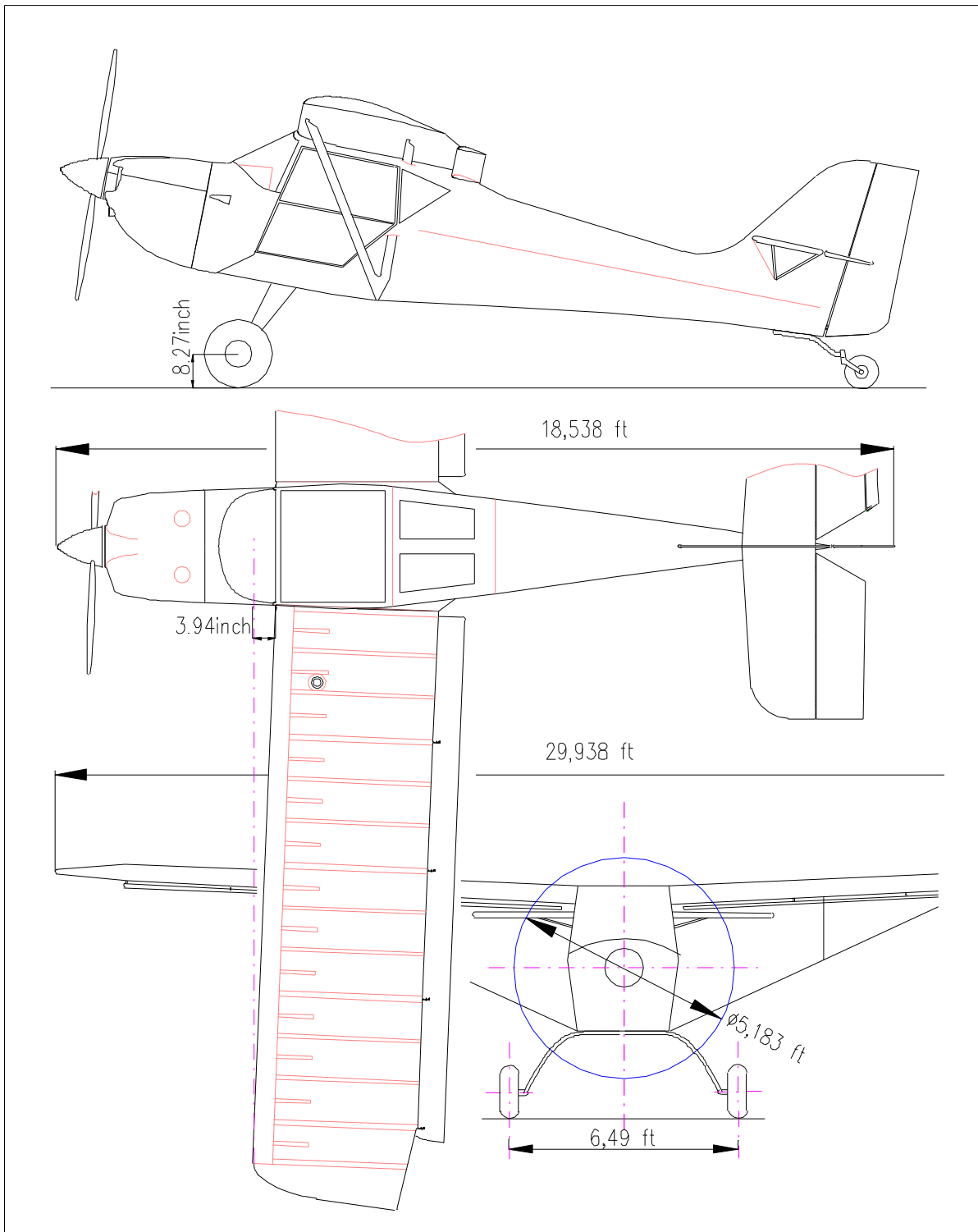
Approved for issue by the BMAA Chief Technical Officer

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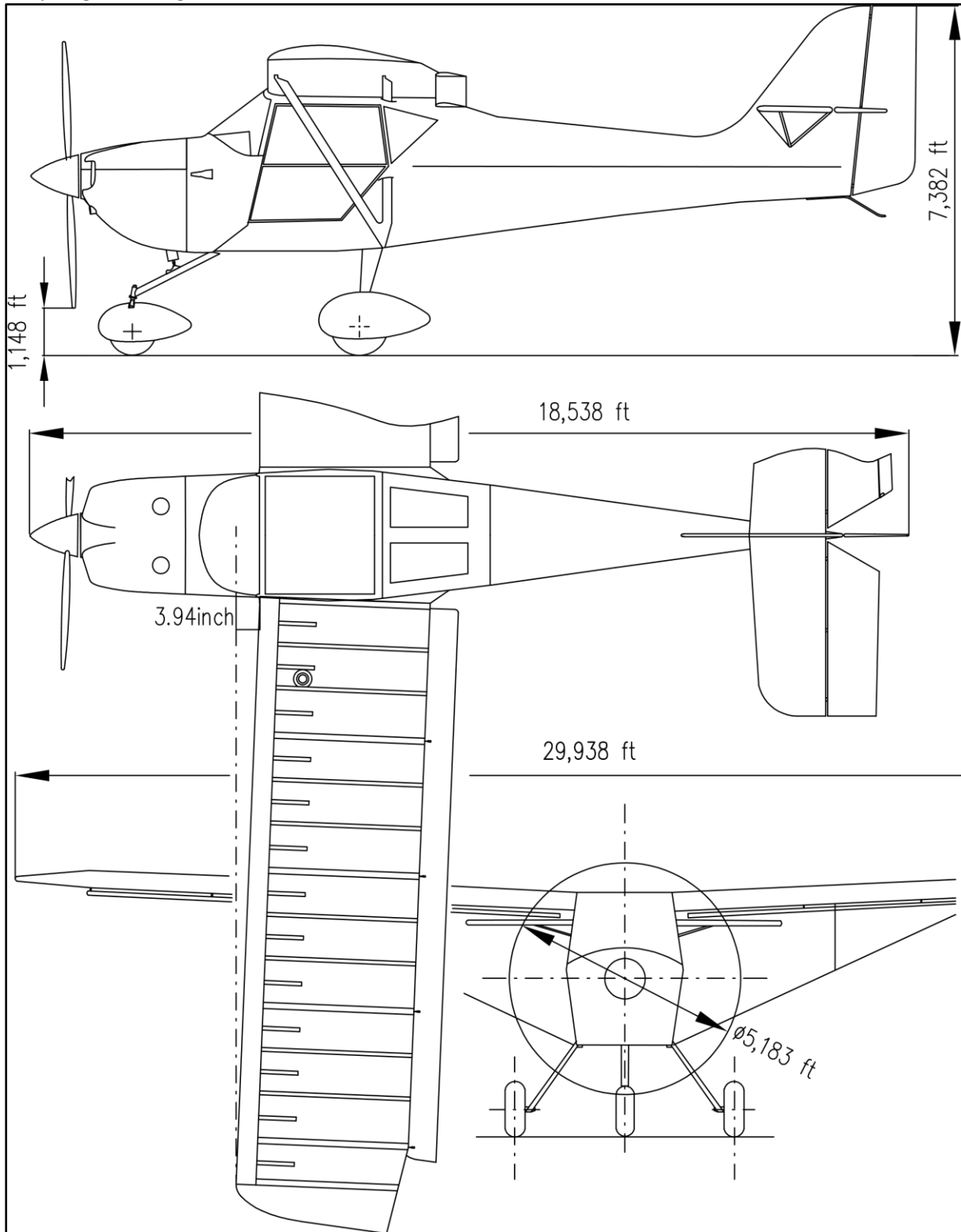
Illustration Of Aircraft – 3 View

Conventional (tail-wheel) configuration:



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Tricycle gear configuration:



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ANNEX A - MANDATORY MODIFICATIONS / SERVICE BULLETINS / AIRWORTHINESS DIRECTIVES ETC.

[Ascent Industries Ltd – Service Bulletins Website Link](#)

<u>Designation</u>	<u>Classification</u>	<u>Subject</u>
<u><a href="#">SB1 2014</a></u>	Service Bulletin	Rudder centring spring (available on EuroFOX UK website)
<u><a href="#">SB2 2015</a></u>	Service Bulletin	Inspection of Undercarriage Guide Bracket Bolt (available on EuroFOX UK website)
<u><a href="#">SB3 2016</a></u>	Service Bulletin	Replacement of Undercarriage Guide Bracket Bolts (available on EuroFOX UK website)
<u><a href="#">SB4 2016</a></u>	Service Bulletin	Checking of elevator trim cable assembly (available on EuroFOX UK website)

**Ascent Industries compulsory modification for operation at 499kg/525kg/560kg:**

041 Eurofox 3K Mainwheel Tyres: MITAS or SAVA 15x6.00 6ply rating or equivalent, or Carlisle tundra tires (18x8x6) or Aero Classic tundra tires (21x8.00x6)

ANNEX B - APPROVED OPTIONAL MODIFICATIONS

The installation of all optional modifications is to be inspected by an inspector from an Organisation approved by the CAA for the purpose and an entry made in the appropriate logbook(s). Note that other approved modifications may exist which are not mentioned here.

[EuroFOX Modification List - RTF Microlight](#)

<u>Modification No.</u>	<u>Description:</u>
2	EuroFOX Stratos Magnum AMTPRS installation
3a	One EuroFOX 40 litre tank
11	EuroFOX wing tip strobes
12	EuroFOX oil inspection hatch
13	EuroFOX electric back-up fuel pump
14	EuroFOX fuel-line fireproof sleeving (firewall forward)
15	EuroFOX nose-wheel shimmy damper

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18	EuroFOX tundra tyres
18a	EuroFOX power socket
19	EarthX ETX18B LiFePO4 starting battery
031	Garmin 2-Axis Autopilot (FACTORY FIT ONLY)
033	Eurofox Tug
034	Dynon 2-Axis Autopilot (FACTORY FIT ONLY)
039	MGL 2-Axis Autopilot (FACTORY FIT ONLY)
040	Rotax 915iS
041	AUW Increase to 560kg
043	Matco 8" Tailwheel (Eurofox 2K only)
044	Eurofox Tug with Tost Retractable Winch
045	Kanardia 2-Axis Autopilot (FACTORY FIT ONLY)
046	LiFePo4 Lithium starting battery

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ANNEX C - WEIGHING INFORMATION

CG Datum:	50mm forward of wing leading edge at root
Weighing attitude:	Door sill horizontal (measured with spirit level)
Main wheel moment arm:	503mm aft of datum (tricycle gear) 21mm forward of datum (conventional gear)
Nose wheel moment arm:	919mm forward of datum
Tail wheel moment arm:	4289mm aft of datum
Fuel moment arm:	440mm aft of datum NORMAL (80 litres nominal capacity, 57.6kg) SINGLE (40 litres tank nominal capacity 28.8 kg)
Collector tank moment arm:	870mm aft of datum (6 litres nominal capacity, 4.3kg)
Crew moment arm:	440mm aft of datum
Baggage moment arm:	1200mm aft of datum
Crew weights:	0 - 100 kg (each) (min cockpit load 55 kg)
Max baggage weight:	18kg (8kg with AMTPRS)
Aft CG Limit:	425mm aft of datum
Forward CG Limit:	260mm aft of datum

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ANNEX D - EXAMPLE PLACARDS

(a) Flight Limitations Placard (to be visible to pilot)

Max Take-off weight	450 kg / 472.5 kg*
Empty weight	as weighed
Max baggage weight	18 kg / 8 kg*
Min occupant weight	55 kg
Max occupant weight	200 kg
Never exceed speed (MIAS)	V <sub>NE</sub> 136 mph IAS / 118 kt IAS*
Max Manoeuvring speed (MIAS)	V <sub>A</sub> 93 mph IAS / 81 kt IAS*
Max Flap extended speed (MIAS)	V <sub>FE</sub> 76 mph IAS / 66 kt IAS*
Stalling speed (MIAS)	V <sub>SO</sub> 35 mph IAS / 30 kt IAS*
Loading limits	+4G / -2G

or

Max Take-off weight	499 kg / 525 kg / 560 kg
Empty weight	as weighed
Max baggage weight	18 kg / 8 kg*
Min occupant weight	55 kg
Max occupant weight	200 kg
Never exceed speed (MIAS)	V <sub>NE</sub> 155 mph IAS / 135 kt IAS*
Max Manoeuvring speed (MIAS)	V <sub>A</sub> 103 mph IAS / 90 kt IAS*
Max Flap extended speed (MIAS)	V <sub>FE</sub> 96 mph IAS / 83 kt IAS*
Stalling speed (MIAS)	V <sub>SO</sub> 44mph IAS / 38 kt IAS*
Loading limits	+4G / -1.5G

\*Delete as appropriate (ref., Mandatory Limitations at para (7) above - limiting speed units must match ASI units)

(b) Engine Limitations Placard (to be located near to the engine instruments)

Max take-off engine speed (max 5 mins)	5800 rpm
Max continuous engine speed	5500 rpm
Max Coolant Temperature	120°C
Min oil temperature	50°C
Max oil temperature	130 °C / 140 °C*
Min oil pressure	0.8 bar
Max oil pressure	7 bar
Fuel pressure	0.15 – 0.5 bar / 2.8 – 3.2 bar*

\* Delete as appropriate to engine type (ref., Mandatory Limitations for Powerplant at para (7)(j) above)

Instruments are individually colour marked accordingly

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(c) Fuel Limitations Placard (to be located near to fuel tank sight gauges)

<b>FUEL TANK CAPACITY<sup>6</sup>: 80/40* litres</b> MOGAS 90 / 95** RON minimum unleaded to EN228, UL 91 or AVGAS 100 LL
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\*Delete as appropriate

\*\*Rotax 912UL can be 90 RON, Rotax 912ULS, 912iS and 915iS should be 95 RON

(d) Fuel Limitations Placard (to be located near to fuel tank sight gauges)

Example, depending upon aircraft equipment and fuel tank configuration.

<b>FUEL</b> Capacity 86* litres 4-stroke, add no oil	
Cockpit Weight (kg)	Max Fuel Load (litres)
<i>180</i>	<i>4</i>
<i>170</i>	<i>18</i>
<i>160</i>	<i>31</i>
<i>150</i>	<i>45</i>
<i>140</i>	<i>59</i>
<i>130</i>	<i>73</i>
<i>121 or below</i>	<i>86 (full)</i>
MOGAS 90 / 95 RON* minimum unleaded to EN228, UL 91 or AVGAS 100 LL	

\*Delete as appropriate

\*Rotax 912UL can be 90 RON, Rotax 912ULS, 912iS and 915iS should be 95 RON

(e) ASI Markings

The ASI must be marked with the main IAS limiting speeds as follows:

- $V_{SO}$  to  $V_{FE}$  - white arc
- $V_{FE}$  to  $V_A$  - green arc
- $V_A$  to  $V_{NE}$  - yellow arc
- $> V_{NE}$  - red arc

(f) Switches

All switches are to be marked with function and sense (up=on, down=off).

All fuses and circuit breakers are to be marked with function and rating.

<sup>6</sup> This relates purely to full tank capacity, it does not include the 6-litre header tank (see item d), nor unusable fuel in the system.

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(g) Miscellaneous

**AEROBATICS and INTENTIONAL SPINS  
ARE PROHIBITED**

**This aircraft has not been certified  
to an international requirement**

**No Smoking  
Approved for flight in VFR conditions**

**FIREPROOF PLATE**

Fireproof metal plate showing the aircraft registration to be mounted in a prominent position.

**BRS**

If fitted with a parachute recovery system, the release control and exterior of the aircraft (adjacent to the rocket/parachute exit point) must be placarded as per the aircraft manual and [MPD 2019-005](#).

**SECONDARY CONTROLS**

The additional limitations, warnings, and secondary controls and switches are to be placarded as per the aircraft manual or normal practice otherwise.

**AUTOPILOT**

The following placard is fitted in full view of the pilots:

**“Autopilot operation is not permitted below 1000ft AGL”**

ANNEX E – POINTS FOR SPECIAL ATTENTION

Operators and inspectors should note the following information.

**No.    Brief Description**

- 1 EuroFOX 3K Aircraft** – detailed inspection of weld cluster under seat pan for damage or cracks at 200 hour intervals. [ALERT BULLETIN](#)
- 2 Tyre Pressures** – Check the for full details and advice regarding the Tundra options.

Brief summary: 12-15” = 29 PSI | 18-21” = around 12PSI | Tailwheel = 10PSI