



Australian Government

Civil Aviation Safety Authority

Type Certificate

Number: VA513

Pursuant to regulation 21.013A of the Civil Aviation Safety Regulations 1998, this type certificate is issued in respect of the Airborne Edge XT aircraft.

Entitlement has been established for this aircraft in the primary category, pursuant to regulation 21.024. Type certificate data sheet VA513 forms part of this type certificate, and describes the basis of certification, and limitations on the Edge XT aircraft.

This certificate is valid until it is suspended or cancelled by the Civil Aviation Safety Authority.

Date of Application	23 March 2004
Date of Issuance	2 April 2004 (Provisional Type Certificate)
Issue 2	16 December 2004

A handwritten signature in blue ink, followed by a red circular stamp. The stamp contains the text "CIVIL AVIATION AUSTRALIA" and "SAFETY AUTHORITY" around a central emblem.

Eugene Paul Holzapfel
Delegate of the Authority

Safe Skies for All



Australian Government
Civil Aviation Safety Authority

No	VA513
Revision	6
Aircraft	Airborne Edge XT
Date	20 August 2015

TYPE CERTIFICATE DATA SHEET

This data sheet forms part of Type Certificate No. VA513, and lists the conditions and limitations under which Edge XT aircraft meet the airworthiness requirements of the Civil Aviation Safety Authority, Australia.

Certificate Holder AirBorne WindSports Pty Ltd
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I. Model Edge XT 912 - B / Streak 3 - B. Approved in Primary Category on 16 December, 2004.

Base	XT 912-B
Engine	Rotax 912 UL 2, 80 hp 4 stroke
Engine Limits	Take Off (max 5 minutes) 5800 rpm Maximum Continuous 5500 rpm
Fuel	En228 Premium/Regular. Super grade gasoline, lead free, minimum RON 90. AVGAS
Fuel Capacity	Total fuel 70 litres Usable fuel 67 litres
Oil Capacity	3 litres (2 litres minimum)

Cooling System.	100% Evans NPG+ liquid coolant. No water is permitted in the radiator. Refer to Note 2.		
	Radiator Cap release pressure	1.2 bar	
Propeller	Bolly BOS 3, Specification C or D. Composite blades, ground adjustable pitch		
	Diameter	1676 \pm 5 mm	
	Pitch limits	20° \pm 0.5 ° at 610 mm radius.	
Levelling Means	Propeller hub face (vertical) for setting propeller pitch.		
Wing	Streak 3 – B		
Wing Area	13.5 m ² (projected)		
Wing Datum	Line joining the centre of leading edge nose bolt heads.		
Base Hang Point Limit	1245 mm +/- 15mm aft of wing datum at all weights.		
Airspeed Limits (knots IAS)	V _{NE} never exceed speed	85	CIAS
	V _A manoeuvring speed	80	CIAS
	V _{SO} stalling speed MTOW	35	CIAS (65 kph IAS)
Number of Seats	Two. Solo flight permitted from front seat only.		
Maximum Weights	Take-off and Landing		
	- up to and including serial number XT912B-092 (See Note 5.)		445 kg
	- serial number XT912B-093 and subsequent		450 kg
Maximum total pilot weight	200 kg		
Front Seat Pilot Weight Range	55 – 100 kg.		
Maximum weight in rear seat	100 kg		
Maximum Baggage	4 kg in under front seat storage – 2 kg per seat bag.		
Crosswind Component	Maximum for take-off and landing – 12 knots.		
Serial numbers eligible	XT 912-B trike base - Streak 3-B wing -	XT912B-01 and subsequent. S3-01 and subsequent.	

Type Design Data The model *XT 912-B/Streak 3-B* consists of an XT 912 - B base fitted with a Streak 3 - B wing. These components are defined by:

XT 912-B trike base	Drawing list 12/062/DS Issue 1.3
Streak 3-B wing	Drawing list 12/030/DS Issue 1.2
Outback option	Drawing list 12/062/DS Issue 1.3
Tundra option	Drawing list 12/062/DS Issue 1.3

(see Note 5)

Additional Type Data Approved Flight Manual

- for serial numbers up to and including XT912B-092,
Pilot's Operating Handbook part number 106727, dated 14 December 2004, or
- for serial numbers XT912B-093 and subsequent,
Pilot's Operating Handbook part number 107164, dated 21 September 2005.
- for the Outback or Tundra options,
Pilot's Operating Handbook part number 107164, dated 2 February 2007 is required.

(See Note 5).

Service Manuals

- XT 912 Maintenance Manual,
part number 106724 Issue 1.1, dated 21 September 2005
or for Outback or Tundra options,
part number 108346 Issue 1.3, dated February 2007
- Streak 3 Maintenance Manual, part number 106725.

IA. Model Edge XT 912 - B / Cruze.

Approved in Primary Category on 21 September, 2005.

Base XT 912-B. The base on this model is identical to the base on the XT 912-B/Streak 3-B, except for placarding and flight manual.

- See Model XT 912-B/Streak 3-B for engine, fuel, propeller, oil, cooling and levelling data.

Wing Cruze

Wing Area 14.4 m² (projected)

Wing Datum Line joining the centre of leading edge nose bolt heads.

Base Hang Point Limit 1245 mm +/- 15mm aft of wing datum at all weights.

Airspeed Limits (knots IAS)	V _{NE} never exceed speed	73	KIAS
	V _A manoeuvring speed	73	KIAS
	V _{SO} stalling speed MTOW	34	KIAS (62 kph IAS)
Number of Seats	Two. Solo flight permitted from front seat only.		
Maximum Weights	Take-off and Landing	450 kg	
Maximum total pilot weight	200 kg		
Front Seat Pilot Weight Range	55 – 100 kg.		
Maximum weight in rear seat	100 kg		
Maximum Baggage	4 kg in under front seat storage – 2 kg per seat bag.		
Crosswind Component	Maximum for take-off and landing – 12 knots.		
Serial numbers eligible	XT 912-B trike base (See Note 4.)	XT912B-093 and subsequent.	
	Cruze wing	CZ-001 and subsequent.	
Type Design Data	The model <i>XT 912-B/Streak-B</i> consists of XT 912 - B base fitted with a Cruze wing. These components are defined by:		
	XT 912 - B trike base	Drawing list 12/062/DS Issue 1.3	
	Cruze wing	Drawing list 12/030/DS Issue 1.2	
	Outback option	Drawing list 12/062/DS Issue 1.3	
	Tundra option	Drawing list 12/062/DS Issue 1.3	
Additional Type Data	Approved Flight Manual		
	- <i>Pilot's Operating Handbook</i> part number 107164, dated 21 September 2005, or for Outback or Tundra options, - <i>Pilot's Operating Handbook</i> part number 107164, dated 2 February 2007.		
	Service Manual		
	- XT 912 Maintenance Manual, part number 106724 Issue 1.1, dated 21 September 2005 or for Outback or Tundra options, part number 108346 Issue 1.3, dated February 2007 and - Streak 3 & Cruze Maintenance Manual, Issue 1.1, dated 21 September 2005.		

II. Model Edge XT 582 / Cruze.

Approved in Primary Category on 21 September, 2005.

Base	XT 582		
Engine	Rotax 582 UL DCDI/mod 99, 64 hp, 2 stroke		
Engine Limits	Take Off (max 5 minutes)	6800 rpm	
	Maximum Continuous	6500 rpm	
Fuel	En228 Premium/Regular. Super grade gasoline, lead free, minimum RON 90. AVGAS.		
Fuel Capacity	Total fuel	70 litres	
	Usable fuel	67 litres	
Oil Capacity	2 litres		
Propeller	Bolly BOS 3, Specification C or D.		
	Composite blades, ground adjustable pitch		
	Diameter	1706 ±5 mm	
	Pitch limits	19° ± 0.5 ° at 610 mm radius.	
Levelling Means	Propeller hub face (vertical) for setting propeller pitch.		
Wing	Cruze.	The wing on this model is identical to the wing on the XT 912-B/Cruze.	
		- See model XT 912-B/Cruze for wing data.	
Base Hang Point Limit	1245 mm +/- 15mm aft of wing datum at all weights.		
Airspeed Limits (knots IAS)	V _{NE} never exceed speed	73	KIAS
	V _A manoeuvring speed	73	KIAS
	V _{SO} stalling speed MTOW	34	KIAS (63 kph IAS)
Number of Seats	Two. Solo flight permitted from front seat only.		
Maximum Weights	Take-off and Landing	450 kg	
Maximum total pilot weight	200 kg		
Front Seat Pilot Weight Range	55 – 100 kg.		
Maximum weight in rear seat	100 kg		

Maximum Baggage	4 kg in under front seat storage – 2 kg per seat bag.	
Crosswind Component	Maximum for take-off and landing – 12 knots.	
Serial numbers eligible	XT 582 trike base Cruze wing	XT582B-001 and subsequent. CZ-001 and subsequent.
Type Design Data	The model XT 582/Cruze consists of XT 582 base fitted with a Cruze wing. These components are defined by: XT 582 trike base Drawing list 12/062/DS Issue 1.3 Cruze wing Drawing list 12/030/DS Issue 1.2 Outback option Drawing list 12/062/DS Issue 1.3 Tundra option Drawing list 12/062/DS Issue 1.3 (see Note 5)	
Additional Type Data	Approved Flight Manual - <i>Pilot’s Operating Handbook</i> part number 107271, dated 21 September 2005, or - for Outback or Tundra options, <i>Pilot’s Operating Handbook</i> part number 107271, dated 2 February 2007. Service Manual - XT 582 Maintenance Manual, part number 107282, Issue 1.0, dated 21 September 2005, or for Outback or Tundra options, - XT 582 Maintenance Manual, part number 108347 Issue 1.3, dated February 2007, and - Streak 3 & Cruze Maintenance Manual, Issue 1.1, dated 21 September 2005.	

Data Pertinent to All Models

Certification Basis	<p>Type Certificate Number VA513 has been issued on the basis of compliance with regulation 21.024 of the Civil Aviation Safety Regulations 1998. The certification standard is:</p> <p>Part 21 of the Civil Aviation Safety Regulations 1998, and</p> <p>British Civil Airworthiness Requirements Section S, Issue 2, dated 31 August 1999.</p> <p>Air Services Australia has determined that the Edge XT 912 models meet the noise standard specified in CAO 101.55, with a corrected noise level of 62.7 dB(A)(s)max at 1000 feet.</p>
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Operational Limits	Australian registration of the Edge XT type is limited to the RAA and HGFA registers.
Production Basis	Production Certificate PC-510188.
Equipment	The CASA Approved Flight Manual, incorporated into the <i>Pilot's Operating Handbook</i> , must be carried aboard the aircraft at all times. Other required minimum equipment is as detailed in the <i>Pilot's Operating Handbook</i> .
Rigging	In accordance with the CASA Approved <i>Pilot's Operating Handbook</i> .
Placards	Approved placards are listed in the CASA Approved Flight Manual. These placards are required to be fitted.

Notes

1. Microair 760 VHF transceiver is approved for use in Airborne Edge XT aircraft in accordance with CASR 21.305(c).
2. [deleted]
3. Unless otherwise stated, later revisions to CASA approved documentation are accepted as meeting type data requirements.
4. XT912 bases, serial numbers up to and including XT912B-092 may be upgraded to allow fitment of the Cruze wing by incorporation of Airborne Service Bulletin 004.
5. XT912-B bases, serial numbers up to and including XT912B-092 may be upgraded to 450 kg Take Off and Landing Weight by incorporation of Airborne Service Bulletin 005. For these serial numbers, incorporation of this service bulletin is mandatory prior to incorporating of either the Outback or Tundra options. Aircraft incorporating Service Bulletin 005 must use the *Pilot's Operating Handbook* part number 107164.
6. Revision 4 adds the "C" Spec propeller, and adds the Outback option, incorporating the instrument 'binnacle and wide wheels.
7. Revision 5 adds the Tundra option, including wide wheels, full cockpit pod, and engine bonnet (XT-912 models only).
8. Revision 6 consolidates previous Streak and Cruse wing MDLs, 04/021/DS Issue 2.3, and 04/220/DS Issue 1.0 into a single new wing MDL, 12/030/DS Issue 1.2; and the base drawing lists 04/219/DS Issue 1.0, 04/019/DS Issue 1.0,

06/202/DS Issue 1.0 and 12/062/DS Issue 1.2 into a single new base MDL,
12/062/DS Issue 1.3.

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