



**LAA TYPE ACCEPTANCE DATA SHEET
TADS P03
AIRMASTER**

Issue 1	Initial issue	Dated 16/02/21	JP
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This TADS is intended as a summary of available information about the propeller type and should be used during the overhaul, operation and permit revalidation phases to help owners and inspectors. Although it is hoped that this document is as complete a summary as possible, other sources contain more complete information, e.g. the manufacturer's website.

Section 1 contains general information about the propeller type and its variants.

Section 2 contains information about the propeller type that the LAA considers **mandatory** and must be complied with.

Section 3 contains advisory information that owners and inspectors should review to help them maintain the propeller in an airworthy condition. If due consideration and circumstances suggest that compliance with the requirements in this section can safely be deferred, is not required or not applicable, then this is a permitted judgement call. This section also provides a useful repository for advisory information gathered through defect reports and experience.

Section 1 Introduction

1.1 Contact Information

UK Contact: The Airplane Factory (Tim Hardy)

Address: 61 Wilden Road
Renhold
Bedfordshire
Bedford
MK41 OLY

Tel: 07876 791 069
Email: tim@airplanefactory.co.uk
Website: slingaircraft.uk

UK Contact: Europa Aircraft (2004) Ltd (Karen Ward)

Address: The Control Tower
Wombledon Airfield
Wombledon
York YO627RY
United Kingdom

Tel: 01751 431 773
Email: enquiries@europa-aircraft.com
Website: www.europa-aircraft.com

UK Contact: Metal Seagulls Ltd (Jonathan Porter)

Address: Hangar E
Sleap Airfield
Harmer Hill
Shrewsbury
SY4 3HE

Tel: 07502 593 671
Email: capt.yaw@gmail.com



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Website: metalseagulls.co.uk

Manufacturer contact information:

Address: Airmaster Propellers Ltd
20 Haszard Road
Massey
Auckland 0614
New Zealand

Tel: +64 (0)9 833 1794
Email (sales): sales@airmasterpropellers.com
Email (tech): support@airmasterpropellers.com
Website: www.propeller.com

1.2 Description

A range of electrically controlled variable pitch three bladed carbon fibre propellers in common use on various Rotax 91x powered aircraft, including Bristell, Europa, Foxbat Sky Arrow, Rebel Sting and SuperSTOL aircraft.

Section 2 Mandatory information for owners, operators and inspectors

At all times, responsibility for the maintenance and airworthiness of an aircraft (including the propeller) rests with the owner. A condition stated on a Permit to Fly requires that: "*the aircraft shall be maintained in an airworthy condition*".

2.1 Lifed Items

Refer to specific manufacturer's information wherever possible.

2.2 Operator's Manuals

Where possible, the manuals describing setup, operation and maintenance procedures for the propeller should be obtained from the manufacturer or importer and retained with the aircraft's records.

<i>Reference ID</i>	<i>Dated</i>	<i>Description</i>
Airmaster AP3/AP4 Series Operator's Manual	21 Jan 13	AP3 and AP4 Series Rev 4

2.3 Maintenance Schedule

Refer to the Operator's Manual where applicable and available.

<i>Reference ID</i>	<i>Dated</i>	<i>Description</i>
Airmaster AP3/AP4 Series Operator's Manual	21 Jan 13	AP3 and AP4 Series Rev 4

Refer to specific manufacturer's information wherever possible.



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Propellers fitted to LAA administered aircraft that are maintained either in accordance with the manufacturer's maintenance schedule, the CAA Light Aircraft Maintenance Schedule (LAMS) [CAP411](#) or the LAA Generic Maintenance Schedule, further details of which can be found in LAA Technical Leaflet [TL 2.19: The LAA Generic Maintenance Schedule](#). Note: The CAA and LAA produced maintenance schedules were originally written around the maintenance requirements of aircraft fitted with traditional aircraft engines and propellers.

Some aircraft may have mandated maintenance requirements and/or schedules which are stated on the aircraft's Operating Limitations document and these must be followed.

More information on maintenance schedules can be found in the [Aircraft Maintenance](#) section of the LAA website.

Variable pitch propellers require a dedicated log book. Log books can be purchased from the [LAA Online Shop](#).

2.4 Airworthiness Directives

Non-certified type, so no type specific applicable Airworthiness Directives.

2.5 Mandatory Permit Directives

No type specific MPDs at this time.

Check CAA [CAP 661](#) which lists MPDs issued before 31 January 2012 and is no longer being updated.

The CAA now provides links to MPDs issued after 31 January 2012 on the [CAA MPD Listing](#) page of their website.

The LAA website should be checked for MPDs that are non-type specific in LAA Technical Leaflet [TL 2.22: Non-Type Specific MPDs](#).

2.6 CAA Mandatory Requirements for Airworthiness CAP747 and Civil Aircraft Airworthiness Information and Procedures (CAAIP) CAP562

No type specific requirements or information at this time.

CAA publications [CAP747](#) and [CAP562](#) contain information that may be relevant to LAA administered aircraft and should be checked for applicability.

In particular, refer to [CAP747](#) Generic Requirement GR No. 17 which concerns the maintenance requirements for variable pitch propellers installed on aircraft holding a UK Certificate of Airworthiness but may also be pertinent to LAA administered aircraft.

2.7 LAA Required Modifications (including LAA issued AILs, SBs, etc)

No type-specific required modifications at this time.



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2.8 Operating Limitations to be Placarded or Shown by Instrument Markings

The Operating Limitations document for the aircraft will specify aircraft and powerplant limitations for that particular aircraft. Where a propeller is being fitted in accordance with a Propeller Type List ([PTL/1](#)), any limitations proscribed by the relevant [PTL/1](#) document must be adhered to.

Notes:

- Refer to the propeller manufacturer's latest documentation for the definitive parameter values and recommended placards.
- Data stated on the aircraft's Operating Limitations document must be displayed by means of cockpit placards or instrument markings.

Section 3 Advice to owners, operators and inspectors

3.1 General

Where possible, the manuals describing setup, operation and maintenance procedures for the propeller should be obtained from the manufacturer or importer and retained with the aircraft's records.

3.2 Standard Options

There are no Standard Options for this propeller type at this time.

3.3 Manufacturer's Information (including Service Bulletins, Service Letters, etc)

In the absence of any over-riding LAA classification, inspections and modifications published in the manufacturer's continuing airworthiness data should be satisfied according to the recommendations therein. It is the owner's responsibility to be aware of and supply such information to their inspector.

Note: The following list may not be a definitive list of all Instructions for Continuing Airworthiness, it will be checked for updates regularly but check manufacturers for current data:

Supplementary Instructions

<i>Reference ID</i>	<i>Dated</i>	<i>Description</i>
SI-007	29 Mar 17	Propeller spacer selection

Service Letters

<i>Reference ID</i>	<i>Dated</i>	<i>Description</i>
SL-0001	11 Dec 17	Greasing procedure for Airmaster propellers

Service Bulletins

<i>Reference ID</i>	<i>Dated</i>	<i>Description</i>
APL-SB-9	02 Sep 02	Upgrade to AC200 Smartpitch controller (applicable to AP308 up to s/n 88)



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APL-SB-13	11 Oct 02	Addition of O-ring seal to blade retention nut to prevent water ingress into hub (AP308, all s/n pre-16 Feb 01, up to and including s/n 60 but except s/n 39 and 51)
APL-SB-14	11 Oct 02	Sealing of blade assemblies to prevent water ingress into hub (AP308, all s/n)
AP-SB15	17 May 02	AP308 Gear motor pinning
AP-SB17	01 May 16	Upgrade of Maxon pitch change motor (APxxx models with Globe PC Motor, up to s/n 1125)
APL-SB18	18 Oct 19	Grease seepage from retention nut seal (all AP332S models with steel retention components pre-Nov 19)

3.4 Special Inspection Points

None

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Please report any errors or omissions to LAA Engineering: engineering@laa.uk.com