

Chapter 01

Introduction

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GENERAL

According to the regulations of the FAR part 23, this service manual provides educated maintenance staff with information necessary for servicing, maintaining and repair of the EXTRA 300L. This manual contains a detailed description of systems including time limits for the particular components, troubleshooting and instructions for the performance of inspection and maintenance work. The instructions, that are necessary for disassembly, check, repair, maintenance or overhaul of vendor equipment are not incorporated in this manual. The modification instructions ("Umrüstanweisungen") of installed optional equipment shall be collected in Chapter 95.

Use the following documents in connection with this service manual:

Aircraft:

- Pilot's Operating Handbook and Airplane Flight Manual
- Parts Catalogue
- Service Bulletins
- Aircraft Record
- Airplane Log Book and Engine Log Book

NOTE

Check the following Airplane Log Book documents are up-to-date and in accordance with the current national aviation authority regulations.

Carried in the airplane:

- Aircraft Airworthiness Certificate
- Aircraft Registration Certificate
- Aircraft Radio Station Licence
- Certificate of Insurance
- Weight and Balance Data Sheet and associated papers
- Equipment list

Engine: **Lycoming AEIO-540-L1B5**
 Lycoming AEIO-540-L1B5/D
 Lycoming AEIO-580-B1A

- Operator's Manual AEIO-540 (P/N:60297-21)
- Operaton and Installation Manual AEIO-580 (P/N:60297-32)
- Maintenance and Overhaul Man. AEIO-580 (P/N: LMO-AEIO-580)
- Service Letters, Bulletins and Instructions INDEX
- Service Letters, Bulletins and Instructions

Manufacturer: **LYCOMING ENGINES**
 652 Oliver Street,
 Williamsport, PA 17 701, USA

Propeller: **MTV-9-B-C/C 200-15 (3-blade)**
 MTV-14-B-C/C 190-17 (4-blade)

- Operation- and Installation Manual E-124
- Overhaul Manual and Parts List E-220
- Service Bulletins

Manufacturer: **MT-Propeller Entwicklung GmbH,**
 Airport Straubing, 94348 Atting,
 Germany

** refer to the Lycoming Service
Instruction No.1374 A and 1374 B*

Magneto: a) **SLICK No. 6251 and 6250 ***
 SLICK No. 6351 and 6350
 (for Lycoming AEIO-540-L1B)
 SLICK No. 6350, and 6393
 (for Lycoming AEIO-580-B1A)

- Magneto Maintenance and Overhaul Manual
- Service Bulletins (refer to Lycoming Service Letters, Bulletins and Instructions INDEX)

Manufacturer: **UNISON INDUSTRIES**
 530 Blackhawk Part Avenue
 Rockford, IL 61104 , USA

**b) BENDIX Model No. D6LN-3000
(for Lycoming AEIO-540-L1B5/D)**

- Service Bulletins (refer to Lycoming Service Letters, Bulletins and Instructions INDEX)

Manufacturer: TELEDYNECONTINENTAL
MOTORS
P.O. BOX 90 Mobile,
AL36601,USA

Magneto Start Booster:

**SlickSTART SS1001
(for Lycoming AEIO-580-B1A)**

- Operation, Maintenance and Troubleshooting Manual L-1492
- Service Bulletins

Manufacturer: UNISONINDUSTRIES
530 Blackhawk Part Avenue
Rockford, IL 61104 , USA

Inverted Oil System: CHRISTEN 801 Series (mod.)

- Product Manual (P/N 03800.33)
- Service Bulletins

Manufacturer: CHRISTEN INDUSTRIE, INC.
1048 Santa Ana Valley Road
Hollister, California 95023, USA

Cleveland Wheels & Brakes

- Maintenance Manual
- Service Bulletins

Manufacturer: Parker Hannifin Corporation
1160 Center Road
Avon, Ohio 44011, USA

Other Vendor Equipment

(Vendor publication should be obtained directly from the vendor.)

- Operation- and Installation Manuals
- Service Bulletins

01-00-01

Trade Marks

Even when the ware or brand names used in this manual are not marked as registered trade-marks, this does not mean, that these names are free in the sens of trademark legislation.

01-10-00

SAFETY

To keep the security risks during the execution of the inspection and maintenance work as low as possible, observe the following points:

- Inspection and maintenance work has to be carried out only by qualified and authorized personnel.
- The execution has to be in accordance with the respective national safety requirements.
- Before beginning any work, this service manual has to be read and understood. In case of doubt or lack of information the manufacturer has to be contacted for advice.
- The safety notes given in this manual are to be observed unconditionally.

Refer to Chapter 02-10-06 for information concerning safety notes.