

Chapter 04

Airworthiness Limitations

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04-00-00

GENERAL

For each inspection listed here, refer to the applicable Chapter in this manual.

I M P O R T A N T

It is the operator's responsibility to make sure that time limits or life limits for items in this chapter are not exceeded.

The airworthiness limitations items include mandatory replacement times and structural inspection intervals which may only be changed with permission of the applicable airworthiness authority.

This airworthiness limitation section is approved by the regulatory authority and specifies maintenance required under paragraphs 43.16 and 91.403 of the Federal Aviation Regulations, unless an alternative program has been approved by the regulatory authority.

04-00-01

Temperature Limit

Composite structure is qualified up to 72°C (162°F). Structure temperatures above this limit are not approved. Not to exceed this temperature limit, only appropriate colour specification for composite structure as given by the manufacturer document EA-03205.19 must be used when finish restoration is required.

In case of doubt regarding to the classification of colour, contact EXTRA-FLUGZEUGBAU GmbH.

04-00-02

Operating Time

Only the airframe and components as listed in Chapter 04-10-00 are subject to a permissible operating time; concerning all other components recommended replacement times are given in Chapter 05-10-03.

The reliability of the composite primary parts has been convincingly demonstrated by fatigue testing (Two times design life $2 \times 6000 = 12000$ hrs).

I M P O R T A N T

Every 1000 flight hours the "Significant Items Inspection" contained in Chapter 05-30-00 of this manual must be performed. This 1000 hours inspection releases the aircraft for further 1000 hours operation, up to max. of 6000 hours.

I M P O R T A N T

Prior to 6000 flight hours the "Major Inspection" contained in Chapter 04-20-00 must be performed. This inspection may release the aircraft for further operation, subject to approval of the regulatory authority.

04-10-00

LIFE LIMITED COMPONENTS

04-10-01

General

The replacement time of the life limited components listed in Ch. 04-10-02 must be accomplished not later than the specified period of operation for that component or in accordance with the manufacturer's service data or airworthiness directives.

04-10-02

Replacement Time

Items shown here must be replaced during the regular maintenance periods.

Item	Replace
Wing	6000 h
Aileron	6000 h
Vertical Stabilizer	6000 h
Rudder	6000 h
Horizontal Stabilizer	6000 h
Elevator	6000 h
Landing Gear Spring	6000 h

04-10-03

Service Life Limited Components

The service life of the EA 300S composite structure as listed in section 04-10-02 has been set to 6000 flight hours. A "Major Inspection" on reaching 6000 flight hours may provide the necessary clearance for further flight. This "Major Inspection" is contained in Chapter 04-20-00.

04-20-00

MAJOR INSPECTION

The EXTRA 300S has been manufactured utilizing the latest knowledge of composite construction and requires new experience about those parts subject to wear. Until now insufficient experience about this point has been acquired. When such information is available it will be accommodated in later revisions of this manual and will include a major inspection procedure.