

Chapter 03

General Description

TABLE OF CONTENTS

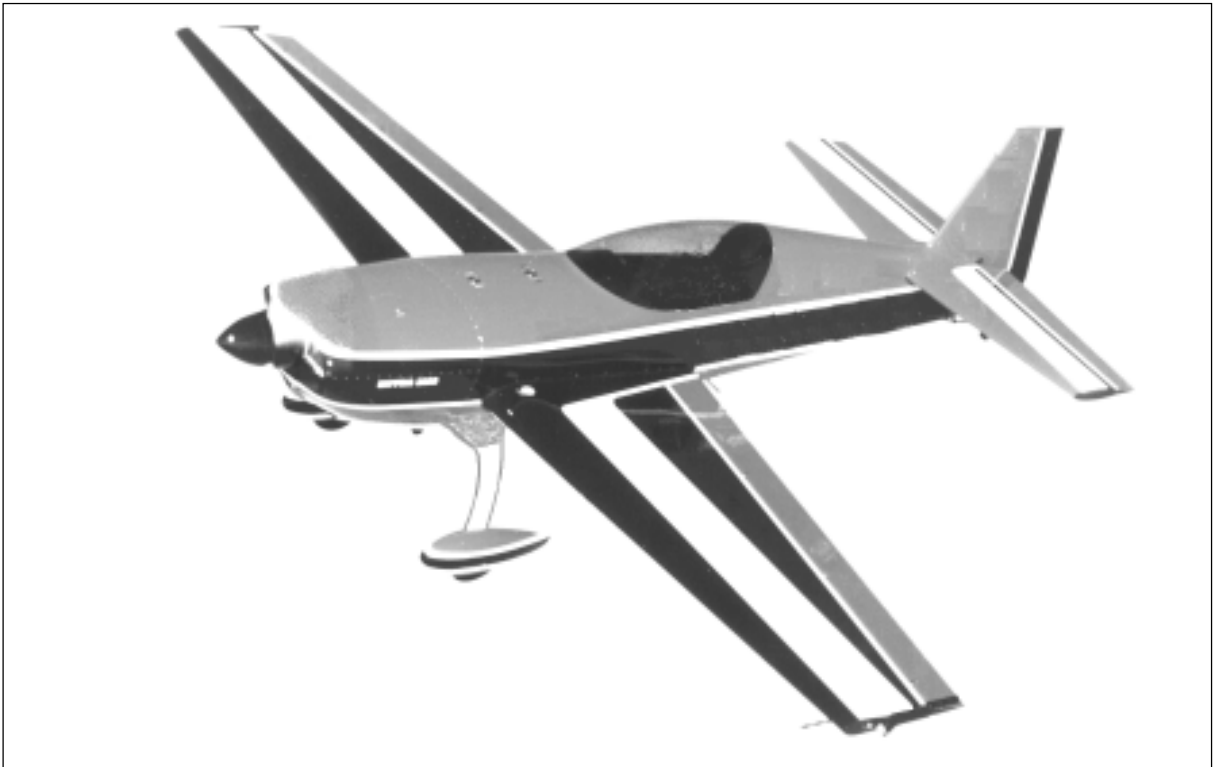
Chapter	Title	
03-00-00	GENERAL	3
03-10-00	DESCRIPTION	4
03-10-01	Construction	4
03-10-02	Flight Control System	4
03-10-03	Brake System	5
03-10-04	Power Plant	5
03-10-05	Fuel System	6
03-10-06	Electrical System	6
03-10-07	Instruments	7

03-00-00

GENERAL

This chapter shows a short survey of the particular systems. A more detailed description of the systems you find in the respective chapters (see: CONTENTS page E).

The Extra EA 300S (refer to Figure 1) is designed as a light weight, single-engine, single-seat, low-wing monoplane using composite and steel materials. It has a fixed main landing gear and a tail wheel unit with full-swivel capability.



View EA 300S
Figure 1

03-10

DESCRIPTION

03-10-01

Construction

Manufacturer:	EXTRA-FLUGZEUGBAU GmbH Flugplatz Dinslaken D-46569 Hünxe, Germany
Fuselage:	steel tube design, covered with fabric and aluminium sheet metal, single piece canopy side hinged
Wing:	fibre composite design
Stabilizers :	fibre composite design
Landing gear:	2 main wheels, 1 tail wheel, fibre composite strut design
Seat:	Seat to pedal distance, seat angle and seat back rest adjustable, 5 piece harness

03-10-02

Flight Control System

Pitch control:	push-pull rods
Roll control:	push-pull rods
Yaw control:	cable system
Pitch trim:	trim tab on the right elevator, bowden cable

03-10-03

Brake System

Main wheels: hydraulically operated disc brakes,
hydraulic cylinders actuated by
brake pedals

Tail wheel: no brake

03-10-04

Powerplant

Engine

Manufacturer: TEXTRON LYCOMING
Williamsport Division
652 Oliver Street
Williamsport Plant 17 701
USA

Type: AEIO - 540 L1B5
(6 cyl. air cooled, fuel injection,
independent magneto ignition
system, inverted flight oil system,
special antivibration counter-
weights)

or: AEIO - 540 L1B5D
(Same as engine AEIO-540 L1B5,
but double magneto)

Rated horsepower: 300 hp at 2700 rpm

Propeller

Manufacturer: MT Propeller Entwicklung GmbH
& Co. KG
Airport Straubing
D-94348 Atting, Germany

Type: MTV-9-B-C/C 200-15
(3-blade wood composite,
hydraulic variable pitch with con-
stant speed regulator,
Propeller diameter: 200 cm)

Optional: MTV-14-B-C/C 190-17
(4-blade, wood composite,
hydraulic variable pitch with con-
stant speed regulator,
Propeller diameter: 190 cm)

03-10-05

Fuel System

Tanks: 2 integral wing tanks, 1 center and
1 acro tank behind the firewall
(cockpit side)

Fuel supply: mechanical engine driven pump,
additional electrically operated
boost pump

03-10-06

Electrical system

Power supply: engine driven 12 V alternator,
integrated DV converter, 28 Ah
starter battery, master switch

Circuits: equipped with automatic circuit
breakers

Ignition: magneto system, independent from
electrical power supply

03-10-07**Instruments**

Standard (minimal) equipment installed:

Instruments
Air speed indicator (0-240 kts)
Altimeter
Magnetic compass
Compass correction card
Tachometer
Oil pressure indicator
Oil temperature indicator
Manifold pressure indicator
Fuel flow indicator
Exhaust gas temperature indicator
Cylinder head temperature indicator
Ammeter
Fuel quantity indicator (Wing/Center tank)
Acceleration indicator (G-Meter)