

**CHAPTER**

**01**

**INTRODUCTION**



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## GENERAL

The Z 143 L or his modification Z 143 LSi airplanes manufacturer supplies in accordance with FAR PART 23 Supplement G the instructions to ensure support of airplane airworthiness. The instructions are issued in manuals being provided by airplane manufacturer and manufacturers of airplane equipment.

- 1) **Z 143L AIRPLANE FLIGHT MANUAL** or **Z 143LSi AIRPLANE FLIGHT MANUAL** (including service bulletins, instructions and manufacturer service letters).
- 2) **Z 143L - Z 143LSi AIRPLANE MAINTENANCE MANUAL** (including service bulletins, instructions and manufacturer service letters).
- 3) **Z 143L - Z 143LSi AIRPLANE ILLUSTRATED PARTS CATALOGUE**
- 4) Engine operator's manual: **OPERATOR'S MANUAL TEXTRON LYCOMING O-540 & IO-540 SERIES AIRPLANE ENGINES, Part No. 60297-10** including service bulletins, instructions and manufacturer service letters)
- 5) Propeller operator's manual: **OPERATION AND INSTALLATION MANUAL- HYDRAULICALLY VARIABLE PITCH PROPELLER MTV, Part No. E-124** including service bulletins of propeller manufactures).
- 6) User's manuals of airplane equipment supplied by equipment manufacturers.
- 7) **MAINTENANCE AND OPERATION MANUAL ON CONDITION OF THE NOSE LANDING GEAR TYPE 793-HPK-185-19, 793-HPK-185-19-7.**

The **Z 143 L - Z 143 LSi AIRPLANE MAINTENANCE MANUAL** contains all the information concerning airplane maintenance including description of airplane structure and operation.

## **AIRPLANE CHARACTERISTIC**

**Z 143L Airplane** is four-place, single-engine, low wing, cantilever monoplane with fixed tricycle landing gear with seats placement.

The airplane serves for elementary and advanced air training and sport. It may be used, if pertinently equipped, even for night and instrument air training, cross-country and IFR flights and for sailplane and advertisement towing.

**Z 143LSi Airplane** is four-place, single-engine, low wing, cantilever monoplane with fixed tricycle landing gear with seats placement.

The airplane serves for elementary and advanced air training and sport. It may be used, if pertinently equipped, even for night and instrument air training, cross-country and IFR flights and for sailplane and advertisement towing.

The airplane power plant:

**TEXTRON Lycoming O-540-J3A5 airplane engine – for Z 143L airplane**

- piston, four-stroke, air cooled, horizontally opposed, clockwise turning, six-cylinder engine with 175 kW (235 HP) constant cruising power and speed 2400 ot/min.

or

**TEXTRON Lycoming IO-540-C4D5 airplane engine – for Z 143LSi airplane**

- piston, four-stroke, air cooled, horizontally opposed, clockwise turning, six-cylinder engine with 175 kW (235 HP) constant cruising power and speed 2400 ot/min.

**MTV-9-B/195-45a Propeller**

- three-blade, hydraulically variable pitch, constant speed.

# MANUFACTURERS

## AIRPLANE MANUFACTURER:

ZLIN AIRCRAFT a.s.

765 81 Otrokovice

Czech Republic

Tel.: +420 725 266 711

Fax.: +420 266 013 830

## ENGINE MANUFACTURER:

TEXTRON Lycoming

Williamsport

Pennsylvania 17701

U.S.A.

## PROPELLER MANUFACTURER:

MT - Propeller Entwicklung GmbH

Airport Straubing-Wallmühle

94348 Atting

Germany

## PROPELLER GOVERNOR MANUFACTURER:

WOODWARD Governor Comp. or

Rockford, Illinois

U.S.A.

AVIA PROPELLER s.r.o.

Beranových 666

199 00 Praha, Czech Republic

## NOSE LANDING GEAR MANUFACTURER:

AXL a.s.

513 01 Semily

Czech Republic

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## MANUAL DESCRIPTION

The **Z 143 L - Z 143 LSi AIRPLANE MAINTENANCE MANUAL** complies with GAMA specification providing instruction for preparation and edition of less complicated instruction books for general aviation airplane. The GAMA specification utilized ATA 100 specification.



# CHAPTER ARRANGEMENT

The chapters in this manual are arranged according to GAMA specification.

The chapters are grouped as follows:

**AIRPLANE**

**AIRFRAME SYSTEM**

**AIRPLANE STRUCTURE**

**PROPELLER**

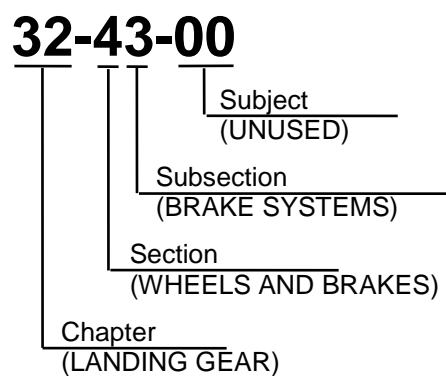
**POWER PLANT**

**WIRING DIAGRAM**

**SUPPLEMENTS**

Numbering of Chapters - Sections / Subsections - Subjects

Example:



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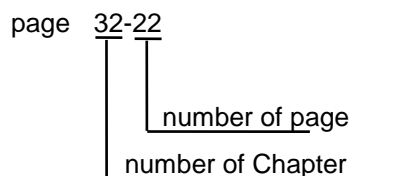
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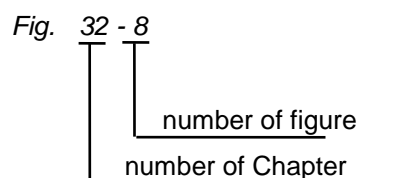
## PAGE NUMBERING

Example:



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Example:



## NOTE

The number and name of figure are written in *italics*.

## **WARNINGS, CAUTIONS AND NOTES**

The warnings, cautions and notes are of following meaning:

**WARNING** - it is the procedure, repair or maintenance process that, if not carried out properly, may cause injury or death of people.

**CAUTION** - it is the procedure, repair or maintenance process that, if not carried out properly, may cause defect or damage of devices.

**NOTE** - it is the procedure, repair or maintenance process that, ETA. The emphasizing of which is considered necessary.

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# ABBREVIATIONS AND TERMS

ADF	automatic direction finder
CHT	cylinder head temperature
DME	distance measuring equipment
EGT	exhaust gas temperature
ELT	emergency locator transmitter
GO	general repair
GPS	global positioning system
HSI	horizontal situation indicator
IAS	indicated airspeed
IFR	instrument flight rules
Js	rand internal diameter of tubes and hoses
MKR	marker beacon
ISA	ICAO standard atmosphere
NiB	levelling point
SWR	standing wave ratio
QNH	conventional altimeter petting based on prevailing barometric pressure
RMI	radio magnetic indicator
ATC	air traffic control
SAE	oil viscosity rating
MAC	mean aerodynamic chord
VFR	visual flight rules
S/N	serial number
VOR	VHF omnidirectional radio range
XPDR	transponder
Z-V	plug-socket connection

Abbreviations and marks in dimensional tables:

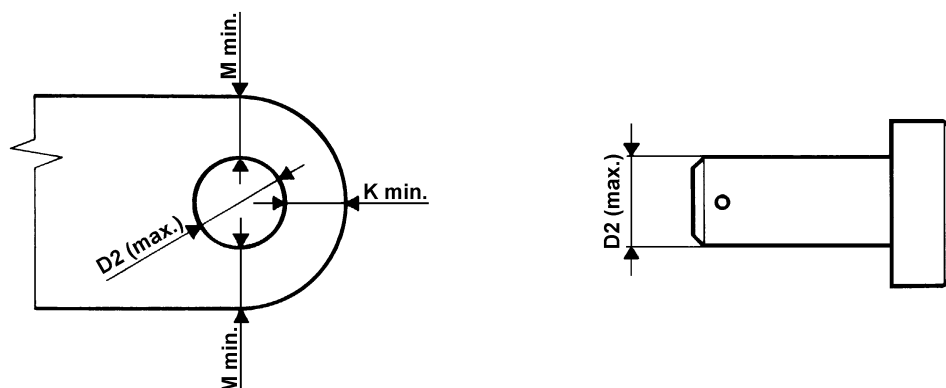
D1	Diameters of pins and holes with allowances according to ISO system
T1	Value of diameter allowances as prescribed for product in question
V min./max.	Play in coupling joint: the numerator expresses minimum play while denominator expresses maximum play

### **NOTE**

The joint without play, i.e. with interference are marked by character „P“, while pressed in bearings are marked with character „R“.

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- T2 max.      Limit allowance permissible in joint to ensure correct and safe operation during standard operational parts wear
- D2 max.      Maximum pin and hole diameters that may be achieved by diameter enlargement from from the original D1 diameter during repair



- K min.      Minimum permitted fork or eye width measured in the direction of longitudinal axis
- M min.      Minimum permitted fork or eye width measured in the direction of perpendicular to longitudinal axis

### **TERMINOLOGY**

**Take-off weight** – the maximum permissible weight of airplane for take-off being approved for beginning of take-off run

**Mean Aerodynamic Chord (MAC)** – it is the chord through the centroid of the wing plan area. (it is the chord of substitute rectangular wing of the same area and the same aerodynamic characteristics)

**Centre of gravity (CG)** – it is geometric centre of balance

**Datum plane** – of Z 143 L and Z 143 LSi airplanes correspond with aft plane of firewall that is vertical when airplane in horizontal position, and from which all horizontal distances for determination of CG position and CG range are measured

**Arm** – the horizontal distance between CG and datum plane

**Static moment** – result of multiplication of arm and airplane weight

**CG range** – the CG position expressed in percentage of MAC

**Usable fuel** – the fuel available for flight

**Unusable fuel** – the fuel that cannot be used for airplane operation

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	27-44	2011-02-02	all
	27-45	2011-02-02	all
	27-46	2011-02-02	all
	27-47	2011-02-02	all
	27-48	2011-02-02	all
27-50-00	27-49	2011-02-02	all
	27-50	2011-02-02	all
	27-51	2011-02-02	all
	27-52	2011-02-02	all
	27-53	2011-02-02	all
	27-54	2011-02-02	all
	27-55	2011-02-02	all

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27-70-00	27-56	2011-02-02	all
	27-57	2011-02-02	all
	27-58	2011-02-02	all
	27-59	2011-02-02	all
	27-60	2011-02-02	all
	27-61	2011-02-02	all
	27-62	2011-02-02	all
	27-63	2011-02-02	all
	27-64	2011-02-02	all
28 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
28-00-00	28-1	2011-02-02	all
28-10-00	28-2	2011-02-02	all
	28-3	2011-02-02	all
	28-4	2011-02-02	all
	28-5	2011-02-02	all
	28-6	2011-02-02	all
	28-7	2011-02-02	all
	28-8	2011-02-02	Z 143 L
28-20-00	28-9	2011-02-02	Z 143 L
	28-10	2011-02-02	Z 143 L
	28-11	2011-02-02	Z 143 L
	28-12	2011-02-02	Z 143 L
	28-13	2011-02-02	Z 143 L
	28-14	2011-02-02	Z 143 LSi
	28-15	2011-02-02	Z 143 LSi
	28-16	2011-02-02	Z 143 LSi
	28-17	2011-02-02	Z 143 LSi
	28-18	2011-02-02	Z 143 LSi
28-40-00	28-19	2011-02-02	Z 143 LSi
	28-20	2011-02-02	all
	28-21	2011-02-02	all
	28-22	2011-02-02	Z 143 L
	28-23	2011-02-02	Z 143 L
	28-24	2011-02-02	Z 143 L
	28-25	2011-02-02	all
	28-26	2011-02-02	all
	28-27	2011-02-02	all
	28-28	2011-02-02	all
	28-29	2011-02-02	all
	28-30	2011-02-02	all
	28-31	2011-02-02	all
	28-32	2011-02-02	all
	28-33	2011-02-02	all
	28-34	2011-02-02	all
	28-35	2011-02-02	all
	28-36	2011-02-02	all
30 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
30-00-00	30-1	2011-02-02	all
30-30-00	30-2	2011-02-02	all
	30-3	2011-02-02	all
	30-4	2011-02-02	all

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Chapter Section / Subsection Subject	Page	Date	Effectivity
31 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
31-00-00	31-1	2011-02-02	all
31-10-00	31-2	2011-02-02	all
	31-3	2011-02-02	all
	31-4	2011-02-02	all
	31-5	2011-02-02	all
	31-6	2011-02-02	all
	31-7	2011-02-02	all
	31-8	2011-02-02	all
	31-9	2011-02-02	all
31-20-00	31-10	2011-02-02	all
	31-11	2011-02-02	all
	31-12	2011-02-02	all
31-50-00	31-13	2011-02-02	all
	31-14	2011-02-02	all
32 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
32-00-00	32-1	2011-02-02	all
32-10-00	32-2	2011-02-02	all
	32-3	2011-02-02	all
	32-4	2011-02-02	all
	32-5	2011-02-02	all
	32-6	2011-02-02	all
	32-7	2011-02-02	all
	32-8	2011-02-02	all
	32-9	2011-02-02	all
	32-10	2011-02-02	all
	32-11	2011-02-02	all
32-20-00	32-12	2011-02-02	all
	32-13	2011-02-02	all
	32-14	2011-02-02	all
	32-15	2011-02-02	all
	32-16	2011-02-02	all
	32-17	2011-02-02	all
	32-18	2011-02-02	all
	32-19	2011-02-02	all
	32-20	2011-02-02	all
	32-21	2011-02-02	all
	32-22	2011-02-02	all
	32-23	2011-02-02	all
	32-24	2011-02-02	all
	32-25	2011-02-02	all
	32-26	2011-02-02	all
	32-27	2011-02-02	all
	32-28	2011-02-02	all
	32-29	2011-02-02	all
32-40-00	32-30	2011-02-02	all
	32-31	2011-02-02	all
	32-32	2011-02-02	all
	32-33	2011-02-02	all
32-41-00	32-34	2011-02-02	all
	32-35	2011-02-02	all
	32-36	2011-02-02	all

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32-42-00	32-37	2011-02-02	all
	32-38	2011-02-02	all
	32-39	2011-02-02	all
	32-40	2011-02-02	all
	32-41	2011-02-02	all
	32-41a	2011-02-02	all
	32-41b	2011-02-02	all
	32-42	2011-02-02	all
	32-43	2011-02-02	all
	32-44	2011-02-02	all
	32-45	2011-02-02	all
	32-46	2011-02-02	all
	32-47	2011-02-02	all
	32-48	2011-02-02	all
	32-49	2011-02-02	all
	32-50	2011-02-02	all
	32-51	2011-02-02	all
	32-52	2011-02-02	all
	32-53	2011-02-02	all
	32-54	2011-02-02	all
32-43-00	32-55	2011-02-02	all
	32-56	2011-02-02	all
	32-57	2011-02-02	all
	32-58	2011-02-02	all
	32-59	2011-02-02	all
	32-60	2011-02-02	all
	32-61	2011-02-02	all
	32-62	2011-02-02	all
	32-63	2011-02-02	all
	32-64	2011-02-02	all
32-44-00	32-65	2011-02-02	all
	32-66	2011-02-02	all
	32-67	2011-02-02	all
	32-68	2011-02-02	all
32-50-00	32-69	2011-02-02	all
	32-70	2011-02-02	all
	32-71	2011-02-02	all
	32-72	2011-02-02	all
33 - CONTENT	32-73	2011-02-02	all
	32-74	2011-02-02	all
	32-75	2011-02-02	all
	32-76	2011-02-02	all
33-00-00 33-10-00  33-40-00	1	2011-02-02	all
	2	2011-02-02	all
	33-1	2011-02-02	all
	33-2	2011-02-02	all
	33-3	2011-02-02	all
	33-4	2011-02-02	all
	33-5	2011-02-02	all
	33-6	2011-02-02	all
	33-7	2011-02-02	all
	33-8	2011-02-02	all
	33-9	2011-02-02	all
	33-10	2011-02-02	all

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Chapter Section / Subsection Subject	Page	Date	Effectivity
33-50-00	33-11 33-12 33-13 33-14	2011-02-02 2011-02-02 2011-02-02 2011-02-02	all all all all
34 - CONTENT	1 2	2011-02-02 2011-02-02	all all
34-00-00	34-1	2011-02-02	all
34-10-00	34-2 34-3 34-4 34-5 34-6 34-7 34-8 34-9	2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02	all all all all all all all all
34-11-00	34-10 34-11	2011-02-02 2011-02-02	all all
34-12-00	34-12 34-13 34-14 34-15 34-16	2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02	all all all all all
34-20-00	34-17 34-18 34-19 34-20	2011-02-02 2011-02-02 2011-02-02 2011-02-02	all all all all
37 - CONTENT	1 2	2011-02-02 2011-02-02	all all
37-00-00	37-1	2011-02-02	all
37-10-00	37-2 37-3 37-4 37-5 37-6 37-7 37-8 37-9	2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02	all all all all all all all all
37-11-00	37-10 37-11 37-12 37-13 37-14 37-15 37-16 37-17	2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02	all all all all all all all all
37-12-00	37-18 37-19 37-20 37-21 37-22 37-23 37-24	2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02	all all all all all all all



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51 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
51-00-00	51-1	2011-02-02	all
51-10-00	51-2	2011-02-02	all
51-11-00	51-3	2011-02-02	all
51-12-00	51-4	2011-02-02	all
	51-5	2011-02-02	all
	51-6	2011-02-02	all
51-13-00	51-7	2011-02-02	all
	51-8	2011-02-02	all
51-30-00	51-9	2011-02-02	all
	51-10	2011-02-02	all
	51-11	2011-02-02	all
51-70-00	51-12	2011-02-02	all
51-71-00	51-13	2011-02-02	all
	51-14	2011-02-02	all
	51-15	2011-02-02	all
	51-16	2011-02-02	all
51-72-00	51-17	2011-02-02	all
	51-18	2011-02-02	all
51-80-00	51-19	2011-02-02	all
	51-20	2011-02-02	all
52 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
52-00-00	52-1	2011-02-02	all
52-10-00	52-2	2011-02-02	all
	52-3	2011-02-02	all
	52-4	2011-02-02	all
	52-5	2011-02-02	all
52-20-00	52-6	2011-02-02	all
	52-7	2011-02-02	all
	52-8	2011-02-02	all
	52-9	2011-02-02	all
52-40-00	52-10	2011-02-02	all
	52-11	2011-02-02	all
	52-12	2011-02-02	all
53 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
53-00-00	53-1	2011-02-02	all
53-10-00	53-2	2011-02-02	all
	53-3	2011-02-02	up to S/N 0045
	53-4	2011-02-02	from S/N 0046
	53-5	2011-02-02	all
	53-6	2011-02-02	all
	53-7	2011-02-02	all
	53-8	2011-02-02	all
	53-9	2011-02-02	all
	53-10	2011-02-02	up to S/N 0045
	53-11	2011-02-02	from S/N 0046
	53-12	2011-02-02	all
	53-13	2011-02-02	all
	53-14	2011-02-02	all
53-20-00	53-15	2011-02-02	all
	53-16	2011-02-02	all

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Chapter Section / Subsection Subject	Page	Date	Effectivity
53-40-00	53-17 53-18 53-19 53-20 53-21 53-22	2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02	all all all all all all
55 - CONTENT	1 2	2011-02-02 2011-02-02	all all
55-00-00	55-1	2011-02-02	all
55-10-00	55-2 55-3 55-4 55-5 55-6 55-7 55-8 55-9 55-10	2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02	all all all all all all all all all
55-20-00	55-11 55-12 55-13 55-14 55-15 55-16 55-17 55-18 55-19 55-20 55-21	2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02	all all all all all all all all all all all
55-30-00	55-22	2011-02-02	all
55-40-00	55-23 55-24 55-25 55-26 55-27 55-28 55-29 55-30	2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02	all all all all all all all all
56 - CONTENT	1 2	2011-06-30 2011-06-30	all all
56-00-00	56-1	2011-06-30	all
56-10-00	56-2 56-3	2011-06-30 2011-06-30	all all
56-20-00	56-4 56-5 56-6	2011-06-30 2011-06-30 2011-06-30	all all all
57 - CONTENT	1 2	2011-02-02 2011-02-02	all all
57-00-00	57-1	2011-02-02	all

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57-10-00	57-2	2011-02-02	all
	57-3	2011-02-02	all
	57-4	2011-02-02	all
	57-5	2011-02-02	all
	57-6	2011-02-02	all
	57-7	2011-02-02	all
	57-8	2011-02-02	all
	57-9	2011-02-02	all
	57-10	2011-02-02	all
	57-11	2011-02-02	all
	57-12	2011-02-02	all
57-40-00	57-13	2011-02-02	all
	57-14	2011-02-02	all
	57-15	2011-02-02	all
	57-16	2011-02-02	all
	57-17	2011-02-02	all
	57-18	2011-02-02	all
	57-19	2011-02-02	all
	57-20	2011-02-02	all
	57-21	2011-02-02	all
	57-22	2011-02-02	all
	57-23	2011-02-02	all
	57-24	2011-02-02	all
	57-25	2011-02-02	all
57-50-00	57-26	2011-02-02	all
	57-27	2011-02-02	all
	57-28	2011-02-02	all
	57-29	2011-02-02	all
	57-30	2011-02-02	all
	57-31	2011-02-02	all
	57-32	2011-02-02	all
	57-33	2011-02-02	all
	57-34	2011-02-02	all
	57-35	2011-02-02	all
	57-36	2011-02-02	all
	57-37	2011-02-02	all
	57-38	2011-02-02	all
	57-39	2011-02-02	all
	57-40	2011-02-02	all
61 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
61-00-00	61-1	2011-02-02	all
61-10-00	61-2	2011-02-02	all
	61-3	2011-02-02	all
	61-4	2011-02-02	all
	61-5	2011-02-02	all
61-20-00	61-6	2011-02-02	all
	61-7	2011-02-02	all
	61-8	2011-02-02	all
	61-9	2011-02-02	Z 143 L
	61-10	2011-02-02	Z 143 L
	61-11	2011-02-02	Z 143 LSi
	61-12	2011-02-02	Z 143 LSi
	61-13	2011-02-02	Z 143 L
	61-14	2011-02-02	Z 143 L
	61-15	2011-02-02	Z 143 LSi

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	61-16	2011-02-02	Z 143 LSi
	61-17	2011-02-02	Z 143 LSi
	61-18	2011-02-02	Z 143 LSi
	61-19	2011-02-02	all
	61-20	2011-02-02	all
71 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
71-00-00	71-1	2011-02-02	all
71-10-00	71-2	2011-02-02	all
	71-3	2011-02-02	all
	71-4	2011-02-02	all
	71-5	2011-02-02	all
71-20-00	71-6	2011-02-02	all
	71-7	2011-02-02	all
	71-8	2011-02-02	all
	71-9	2011-02-02	all
	71-10	2011-02-02	all
	71-11	2011-02-02	all
	71-12	2011-02-02	all
71-30-00	71-13	2011-02-02	all
71-60-00	71-14	2011-02-02	all
	71-15	2011-02-02	all
	71-16	2011-02-02	all
72 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
72-00-00	72-1	2011-02-02	all
72-10-00	72-2	2011-02-02	Z 143 L
	72-3	2011-02-02	Z 143 LSi
	72-4	2011-02-02	all
	72-5	2011-02-02	all
	72-6	2011-02-02	all
	72-7	2011-02-02	all
	72-8	2011-02-02	all
	72-9	2011-02-02	all
	72-10	2011-02-02	all
	72-11	2011-02-02	all
	72-12	2011-02-02	all
	72-14	2011-02-02	all
74 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
74-00-00	74-1	2011-02-02	all
74-10-00	74-2	2011-02-02	all
	74-3	2011-02-02	all
	74-4	2011-02-02	all
	74-5	2011-02-02	all
	74-6	2011-02-02	all
75 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all

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75-00-00	75-1	2011-02-02	all
75-10-00	75-2	2011-02-02	Z 143 L
	75-3	2011-02-02	Z 143 L
	75-4	2011-02-02	Z 143 L
	75-5	2011-02-02	Z 143 L
	75-6	2011-02-02	Z 143 L
	75-7	2011-02-02	Z 143 L
	75-8	2011-02-02	Z 143 L
	75-9	2011-02-02	Z 143 L
75-20-00	75-10	2011-02-02	all
76 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
	76-1	2011-02-02	all
76-00-00	76-2	2011-02-02	all
76-10-00	76-3	2011-02-02	all
	76-4	2011-02-02	all
	76-5	2011-02-02	all
	76-6	2011-02-02	all
	76-7	2011-02-02	all
	76-8	2011-02-02	all
	76-9	2011-02-02	all
	76-10	2011-02-02	Z 143 L
	76-11	2011-02-02	Z 143 LSi
	76-12	2011-02-02	all
	76-13	2011-02-02	all
	76-14	2011-02-02	all
77 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
77-00-00	77-1	2011-02-02	all
77-10-00	77-2	2011-02-02	all
	77-3	2011-02-02	all
	77-4	2011-02-02	all
77-11-00	77-5	2011-02-02	all
77-12-00	77-6	2011-02-02	all
	77-7	2011-02-02	all
77-13-00	77-8	2011-02-02	all
	77-9	2011-02-02	Z 143 L
	77-10	2011-02-02	Z 143 LSi
77-14-00	77-11	2011-02-02	all
	77-12	2011-02-02	all
77-20-00	77-13	2011-02-02	all
77-21-00	77-14	2011-02-02	all
77-22-00	77-15	2011-02-02	all
77-23-00	77-16	2011-02-02	all
77-24-00	77-17	2011-02-02	Z 143 L
	77-18	2011-02-02	all
78 - CONTENT	1	2011-02-02	all
	2	2011-02-02	all
78-00-00	78-1	2011-02-02	all
	78-2	2011-02-02	all

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78-10-00	78-3 78-4 78-5 78-6	2011-02-02 2011-02-02 2011-02-02 2011-02-02	all all all all
79 - CONTENT	1 2	2011-02-02 2011-02-02	all all
79-00-00	79-1	2011-02-02	all
79-20-00	79-2 79-3 79-4 79-5 79-6 79-7	2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02	all all all all all all
79-30-00	79-8	2011-02-02	all
91 - CONTENT	1 2	2011-02-02 2011-02-02	all all
91-00-00	91-1	2011-02-02	all
91-10-00	91-2 91-3 91-4 91-5 91-6 91-7	2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02	up to S/N 0045 incl. (except S/N 0042) up to S/N 0045 incl. (except S/N 0042) from S/N 0046 incl. from S/N 0046 incl. from S/N 0046 incl. all
91-11-00	91-8 91-9 91-10 91-11	2011-02-02 2011-02-02 2011-02-02 2011-02-02	up to S/N 0052 incl. up to S/N 0052 incl. from S/N 0053 incl. from S/N 0053 incl.
91-20-00	91-12 91-13 91-14 91-15	2011-02-02 2011-02-02 2011-02-02 2011-02-02	up to S/N 0045 incl. up to S/N 0045 incl. from S/N 0046 incl. from S/N 0046 incl.
91-30-00	91-16 91-17 91-18 91-19 91-20 91-21	2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02	up to S/N 0045 incl. up to S/N 0045 incl. from S/N 0046 incl. from S/N 0046 incl. from S/N 0046 incl. from S/N 0046 incl.
91-31-00	91-22 91-23 91-24 91-25	2011-02-02 2011-02-02 2011-02-02 2011-02-02	up to S/N 0006 incl. (except S/N 0004) and for S/N 0009 for GFR and from S/N 0007 (except S/N 0009) up to S/N 0045 incl. from S/N 0046 incl. all
91-40-00	91-26 91-27 91-28 91-29 91-30 91-31	2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02 2011-02-02	up to S/N 0006 incl. (except S/N 0004) and for S/N 0009 up to S/N 0006 incl. (except S/N 0004) and for S/N 0009 for GFR and from S/N 0007 (except S/N 0009) up to S/N 0045 incl. for GFR and from S/N 0007 (except S/N 0009) up to S/N 0045 incl. from S/N 0046 incl. from S/N 0046 incl.
91-41-00	91-32	2011-02-02	all
91-42-00	91-33 91-34	2011-02-02 2011-02-02	up to S/N 0006 incl. (except S/N 0004) and for S/N 0009 for GFR and from S/N 0007 (except S/N 0009)

**EFFECTIVITY: All**

# Z 143 L - Z 143 LSi

## AIRPLANE MAINTENANCE MANUAL

Chapter Section / Subsection Subject	Page	Date	Effectivity
91-50-00	91-35	2011-02-02	up to S/N 0045 incl.
	91-36	2011-02-02	from S/N 0046 incl.
	91-37	2011-02-02	all
91-51-00	91-38	2011-02-02	from S/N 0046 incl.
91-60-00	91-39	2011-02-02	from S/N 0046 incl.
91-70-00	91-40	2011-02-02	up to S/N 0006 incl. (except S/N 0004) and for S/N 0009
	91-41	2011-02-02	for GFR and from S/N 0007 (except S/N 0009)
	91-42	2011-02-02	for GFR and from S/N 0007 (except S/N 0009) up to S/N 0045 (except S/N 0042)
91-80-00	91-43	2011-02-02	for GFR and from S/N 0007 (except S/N 0009) up to S/N 0045 (except S/N 0042)
	91-44	2011-02-02	from S/N 0046 incl. (turn indicator I + direct. gyro I)
	91-45	2011-02-02	from S/N 0046 incl. (turn indicator I + direct. gyro I)
	91-46	2011-02-02	from S/N 0046 incl. (turn indicator I, II + direct. gyro I, II)
	91-47	2011-02-02	from S/N 0046 incl. (turn indicator I, II + direct. gyro I, II)
	91-48	2011-02-02	up to S/N 0006 (except S/N 0003 and GFR) and for S/N 0009
	91-49	2011-02-02	up to S/N 0006 (except S/N 0003 and GFR) and for S/N 0009
	91-50	2011-02-02	from S/N 0007 incl. up to S/N 0022 incl. (except S/N 0009 and GFR)
	91-51	2011-02-02	from S/N 0007 incl. up to S/N 0022 incl. (except S/N 0009 and GFR)
	91-52	2011-02-02	up to S/N 0022 incl. for GFR
	91-53	2011-02-02	up to S/N 0022 incl. for GFR
	91-54	2011-02-02	for S/N 0003 and from S/N 0023 (except GFR) up to S/N 0045 incl. (except S/N 0042)
	91-55	2011-02-02	for S/N 0003 and from S/N 0023 (except GFR) up to S/N 0045 incl. (except S/N 0042)
	91-56	2011-02-02	from S/N 0023 for GFR up to S/N 0045 incl.
	91-57	2011-02-02	from S/N 0023 for GFR up to S/N 0045 incl.
	91-58	2011-02-02	from S/N 0045 incl. up to S/N 0052 incl.
	91-59	2011-02-02	from S/N 0045 incl. up to S/N 0052 incl.
	91-60	2011-02-02	Z 143 L from S/N 0053 for GFR up to S/N 0065 incl.
	91-61	2011-02-02	Z 143 L from S/N 0053 for GFR up to S/N 0065 incl.
	91-62	2011-02-02	Z 143 L from S/N 0053 except GFR up to S/N 0065 incl.
	91-63	2011-02-02	Z 143 L from S/N 0053 except GFR up to S/N 0065 incl.
	91-64	2011-02-02	Z 143 LSi from S/N 0055 incl. up to S/N 0065 incl.
	91-65	2011-02-02	Z 143 LSi from S/N 0055 incl. up to S/N 0065 incl.
91-81-00	91-66	2011-02-02	up to S/N 0045 incl.
	91-67	2011-02-02	from S/N 0046 incl.
91-82-00	91-68	2011-02-02	up to S/N 0045 incl.
91-83-00	91-69	2011-02-02	from S/N 0046 incl.
	91-70	2011-02-02	all

### NOTE

Abbreviation GFR means the airplane delivered from manufacturer in German Federal Republic.

Chapter 95 consists of individual SUPPLEMENTS each containing its own LIST OF EFFECTIVE PAGES.

**EFFECTIVITY: All**

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## REVISIONS

### **CAUTION**

THE MANUAL USER IS RESPONSIBLE FOR ITS MAINTENANCE IN VALID STATE.

All the revisions / temporary revision of this manual are made as follows:

- 1) The airplane manufacturer will place Revision / Temporary Revision with new pages of manual to his web sites:
- 2) The holder of manual is obliged:
  - a) Print new pages and perform revision according to text of Revision / Temporary Revision i.e. replace old pages behind the new ones.
  - b) Performing of revision confirm in LOG OF REVISION (section 01-62-00) / LOG OF TEMPORARY REVISION (section 01-61-00).

### **NOTE**

Each page contains list of revisited or complemented parts marked with words REVISION No.... / TEMPORARY REVISION No.....and date of revision issue.

The revisited sections of pages are marked with solid vertical line outside of text.

Pages containing temporary revision are printed upon yellow paper.

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## LIST OF TEMPORARY REVISION

No. of Temporary revision	Reason of TEMPORARY REVISION	Revisited pages		Date of issue	Date of Introduction of revision
		Chapter Section / Subsection Subject	Page		

**EFFECTIVITY:** All

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## LIST OF TEMPORARY REVISION

No. of Temporary revision	Reason of TEMPORARY REVISION	Revisited pages		Date of issue	Date of Introduction of revision
		Chapter Section / Subsection Subject	Page		

## LIST OF REVISIONS

No. of Revision	Reason of REVISION	Revisited pages		Date of issue	Date of Introduction of revision
		Chapter Section / Subsection Subject	Page		

**EFFECTIVITY:** All

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## LIST OF REVISIONS

No. of Revision	Reason of REVISION	Revisited pages		Date of issue	Date of Introduction of revision
		Chapter Section / Subsection Subject	Page		