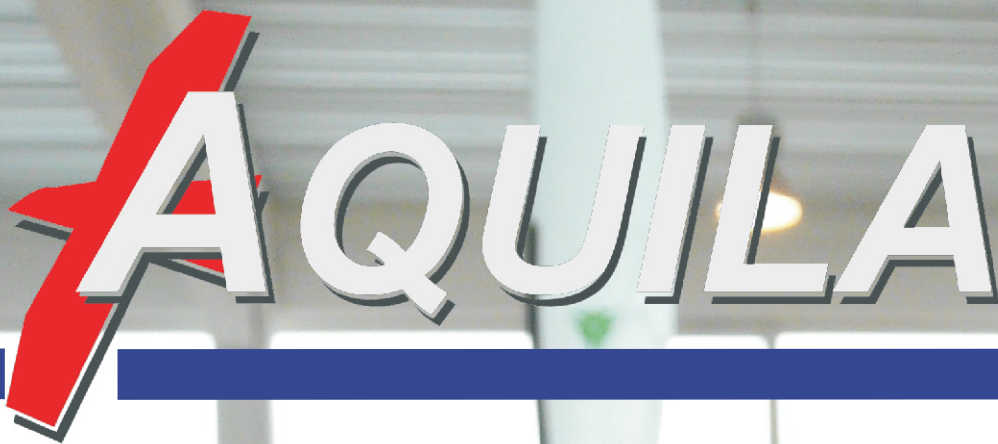




Illustrated Parts Catalog

Aquila A210 / A211 / A212

Doc.-No. PC-AT01- 1030-110

AQUILA Aviation International GmbH • Flugplatz • D-14959 Schönhagen
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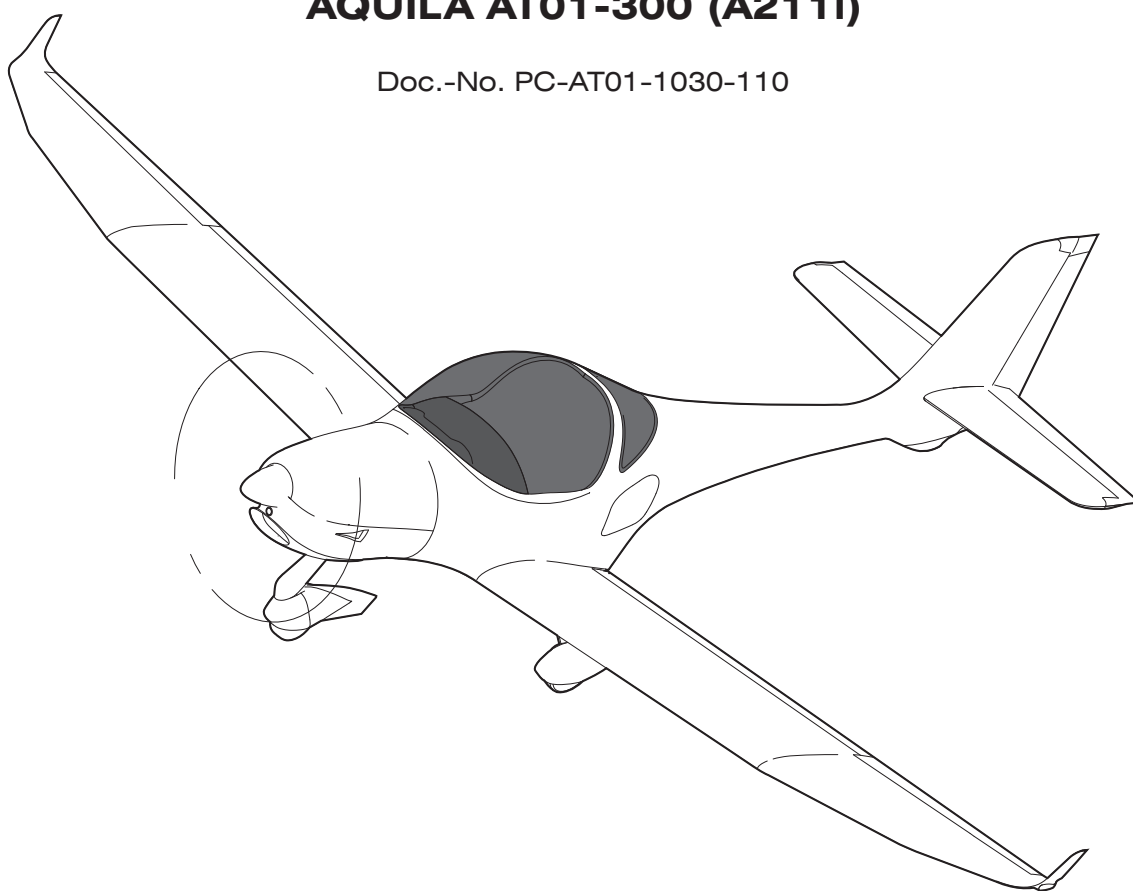
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ILLUSTRATED PARTS CATALOG

AQUILA AT01 (A210)
AQUILA AT01-100 (A211)
AQUILA AT01-200 (A212)
AQUILA AT01-300 (A211i)

Doc.-No. PC-AT01-1030-110



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	RECORD OF REVISIONS
	RECORD OF TEMPORARY REVISIONS
	INTRODUCTION
	LIST OF EFFECTIVE CHAPTERS
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11-00-00	Placards and Markings - General
11-20-00	Exterior Placards & Markings
11-30-00	Interior Placards & Markings
21	VENTILATION & HEATING
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57	WINGS
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71	POWERPLANT
71-00-00	Powerplant - General
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71-20-00	Engine Mount
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[illegible]

[illegible]

INTRODUCTION

1. General

- A. This Illustrated Parts Catalog (IPC) is intended for use in the identification and requisition of replaceable aircraft parts and units of the AQUILA AT01.

WARNING: DO NOT USE THIS ILLUSTRATED PARTS CATALOG TO DETERMINE REMOVAL AND INSTALLATION PROCEDURES.

For maintenance purposes such as removal and installation procedures of parts and assemblies or repair instructions, refer to the AQUILA AT01 Maintenance Manual.

2. Structure of the Illustrated Parts Catalog

The IPC structure basically conforms to requirements of Air Transport Association (ATA) Specification Number 100 for Manufacturers Technical Data. The document is divided into chapters which correspond to equivalent chapters in the AQUILA AT01 Maintenance Manual.

- A. The IPC is divided into two main sections:

- | | |
|---------------------------------|---|
| (1) General | Table of Contents
Record of Revisions
Record of Temporary Revisions
Introduction
List of Effective Chapters |
| (2) Illustrated parts breakdown | Chapters 11 up to 96 |

- B. Each chapter has one or more sections (subsystems). Spare parts of each section are presented in one or more figures. The figures within these sections are numbered consecutively.

- C. Each chapter starts with an overview on contained figures in that chapter.

- D. Left-hand pages contain exploded views to illustrate mechanical devices, assemblies and parts.

- E. Right-hand pages contain a detailed parts list that is divided into 5 vertical columns:

- | | |
|-------------------|--|
| (1) Figure / Item | Contains the number of the applicable illustration (figure number) as well as the reference numbers of the parts listed. When a reference number is preceded by a dash (-), the respective part, subassembly or assembly is not illustrated. |
| (2) "QTY" | Contains the quantity of each listed part required for the next higher assembly. |
| (3) Part Number | This column contains the manufacturer's part number used to identify the item. |
| (4) Nomenclature | Contains the description (nomenclature) of the part, subassembly, assembly or system. |

(5) Effectivity

Aircraft effectivity is indicated in the detailed parts list by applicable serial numbers which are only entered if a given part pertains to a particular aircraft only.

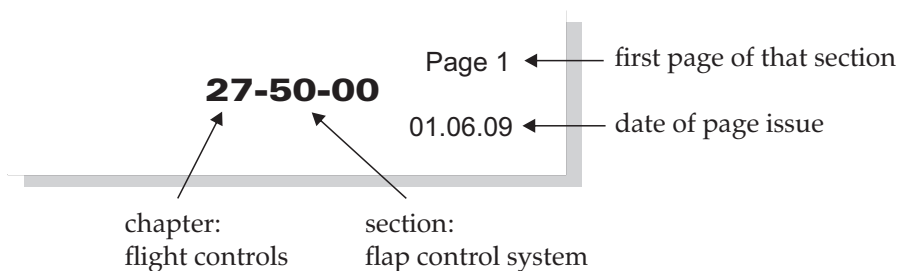
Example:

101 - 113	effective up to serial number 113
123 - 999	effective from serial number 123 and on
113 - 122	effective for aircraft with serial number 113 thru 122

3. Page Identification and Numbering System

- A. The page numbering system consists of three-element numbers separated by dashes with the page number and date printed to the side.

A page number for example:



- (1) When the chapter/system element number is followed with zeros in the section/subsystem and subject/unit element number (28-00-00), the information is applicable to the entire system.
- (2) When the section/subsystem element number is followed with zeros in the subject/unit element number (28-20-00), the information is applicable to subsystem within the system.
- (3) The subject/unit element number is used to identify information applicable to units within the subsystems.

4. Using the Illustrated Parts Catalog

- A. To obtain information on an individual spare part or assembly proceed as follows:
- (1) Refer to the Table of Contents in the front of IPC to find the applicable chapter.
 - (2) Refer to the Table of Contents of that chapter to find section and figure number in which the part should be shown.
 - (3) Refer to the illustration and find the part.
 - (4) Refer to the corresponding item number in the detailed parts list and read the part number.

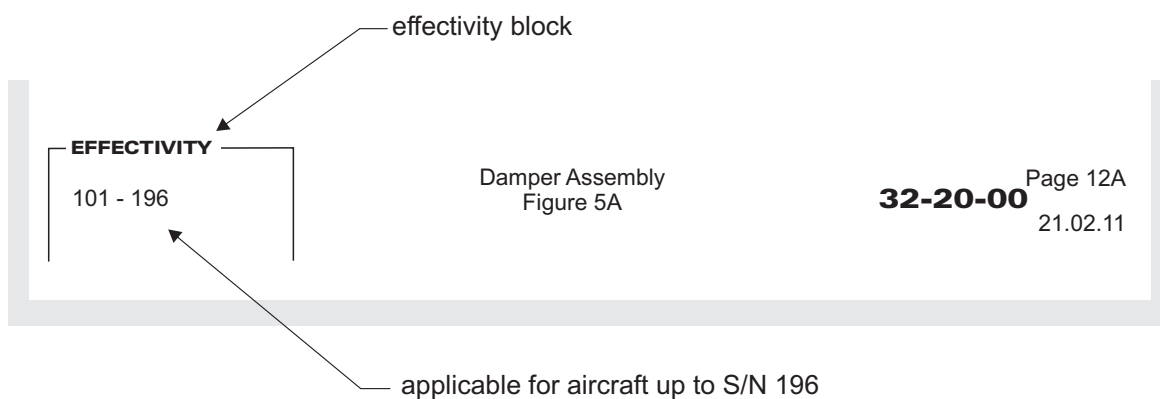
B. Effectivity

This IPC is “customized”. It includes the following effectivity identification system to show modification and/or configuration differences.

- (1) The IPC starts with a List of Effective Chapters. Each chapter is listed with date of issue or revision.
- (2) To identify the aircraft an effectivity statement (i.e. Garmin Avionics) or a six-digit numeric indicator is shown in the effectivity column in the table of contents if applicable.
 - (a) The six-digit numeric indicator begins with the last three digits of the lowest assigned number, to indicate first effectivity, and ends with the last three digits of the highest assigned number, to indicate last effectivity, of an unbroken sequence of assigned numbers. A hyphen is shown between the numbers. Open ended effectivity is indicated by “999” in the last effectivity if applicable. For example: 123-999 indicates aircraft 123 and subsequent.
- (3) Effectivity Block

The system provides further direct annotation of applicability of figures. Figures not applicable for all aircraft have an effectivity block at the bottom left-hand corner of the left-hand page. Effectivity identification may be a six-digit numeric indicator (ref. to (2)(a)) or an effectivity statement. The information of that figure applies only to the aircraft noted in the effectivity block.

NOTE: Figures with an effectivity block have an sequential alpha-suffix, for example, a modified version of figure 1 would be figure 1A, a further variant of the same figure would be figure 1B, and so on.



C. Revisions

- (1) Revisions of the IPC, caused by variety of reasons (regulation changes, technical changes, typographical errors, etc.), will be published regularly.
- (2) Identifying revised material
Revisions and/or additions will be identified by a vertical black line (revision bar) in the outer margin of the page opposite the text/illustration that has been changed.
- (3) Should a revision be urgently required between regular updating, a temporary revision will be issued. The relevant pages are yellow and will usually be incorporated in the next scheduled revision of the IPC.
- (4) Incorporating revisions into the manual
 - (a) In order to keep track of revisions and to facilitate the use of the catalog, a revision always affects the entire chapter, i.e. all pages of a chapter have the same date of issue or revision and the complete chapter is replaced during a revision.
 - (b) IPC revisions contain an effectivity page. Chapters to be removed or inserted are listed in sequence and assigned with the respective action.
Incorporation of revisions into the catalog must be documented in the record of revisions at the front of the IPC.
 - (c) Temporary revisions are issued as single pages and must be incorporated according to the notes on the effectivity page delivered with the revision. They become invalid and must be removed when the corresponding permanent revision is issued.

LIST OF EFFECTIVE CHAPTERS

Chapter Title	Date*
GENERAL	
00 Introduction	31.05.24
11 Placards and Markings	19.11.25
AIRFRAME SYSTEMS	
21 Ventilation and Heating	31.05.24
24 Electrical Power	31.05.24
25 Equipment and Furnishings	31.05.24
27 Flight Controls	31.05.24
28 Fuel	19.11.25
31 Indicating/Recording Systems	31.05.24
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56 Windows	31.05.24
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71 Power Plant	31.05.24
75 Engine Cooling	31.05.24
76 Engine Controls	31.05.24
77 Engine Indicating	31.05.24
78 Exhaust	31.05.24
79 Oil	31.05.24
MISCELLANEOUS	
96 Accessory	19.11.25

* The date refers to the issue / revision date of the respective chapter.

The technical content of this document (revision A.08) is approved under the authority of the
DOA ref. EASA.21J.025.

19.11.25
Date, Signature Office of Airworthiness



AQUILA AT01
ILLUSTRATED PARTS CATALOG

CHAPTER 11
PLACARDS & MARKINGS

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Placards & Markings - General	11-00-00	2	
EXTERIOR PLACARDS & MARKINGS	11-20-00	1	
Exterior Placards & Markings	11-20-00	2	
INTERIOR PLACARDS & MARKINGS	11-30-00	1	
Interior Placards & Markings	11-30-00	2	

PLACARDS & MARKINGS
GENERAL

Item not illustrated



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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Placards & Markings - General	
	-1		Exterior Placards & Markings (refer to 11-20-00, figure 1 for details)	
	-2		Interior Placards & Markings (refer to 11-30-00, figure 1 for details)	

- Item not illustrated

Placards & Markings - General
Figure 1

11-00-00

Page 3

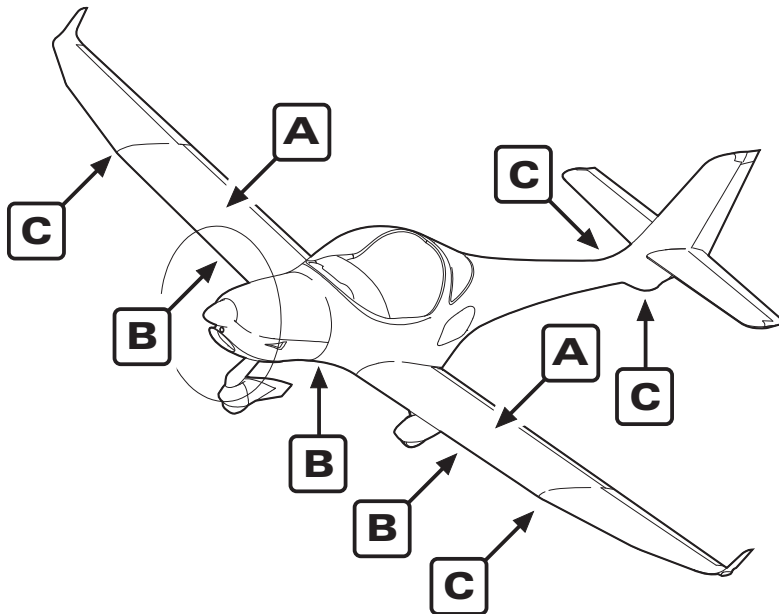
19.11.25



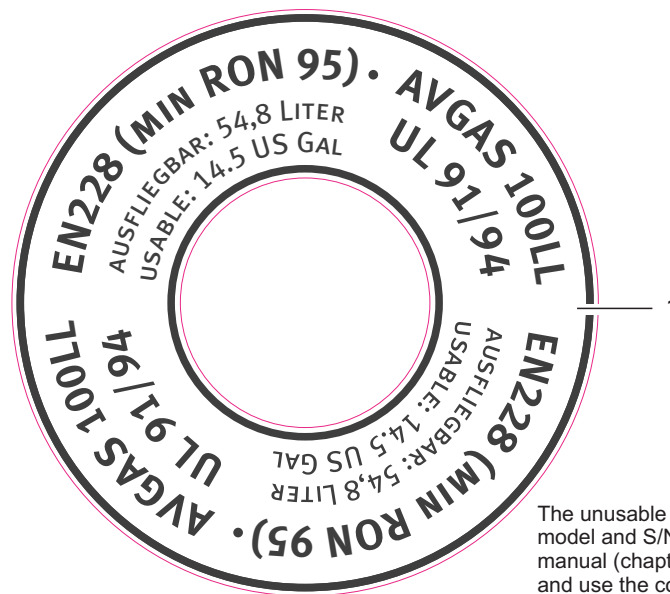
AQUILA AT01
ILLUSTRATED PARTS CATALOG

**EXTERIOR
PLACARDS & MARKINGS**

Note: Placards illustrated not in scale.



Detail- **A**



The unusable amount of fuel depends on model and S/N. Refer to the maintenance manual (chapter 12-10) for fuel capacities and use the corresponding placard.



Detail- **B**



Detail- **C**



Exterior Placards & Markings
Figure 1 (1)

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1 (1)			Exterior Placards & Markings	
1	2	AT01-1120-100	fuel tank cap placard (54,8 l usable fuel per tank)	109,6 l usable
		AT01-1120-109	fuel tank cap placard (48,5 l usable fuel per tank)	97,0 l usable
2	1	AT01-2820-120	exterior placard set (English)	101 - 299
		AT01-1120-104	exterior placard set (English)	300 - 999
3	1	AT01-2820-110	exterior placard set (German)	101 - 299
		AT01-1120-105	exterior placard set (German)	300 - 999
-4	1	AT01-2820-121	exterior placard set (French)	101 - 299

- Item not illustrated

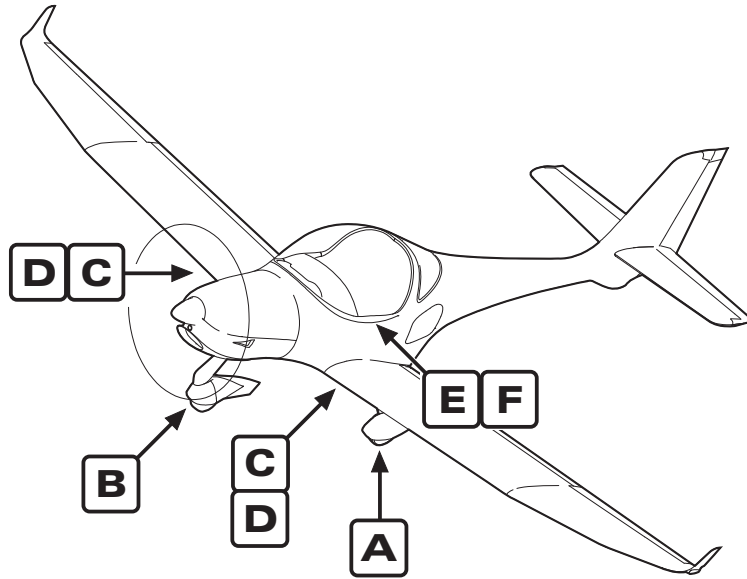
Exterior Placards & Markings
Figure 1 (1)

11-20-00

Page 3

19.11.25

Note: Placards illustrated not in scale.

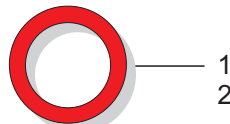


2 — 2,5 bar Detail- **A** 36 psi — 1

2 — 2,5 bar Detail- **B**¹⁾ 36 psi — 1

2 — 2,0 bar Detail- **B**²⁾ 29 psi — 1

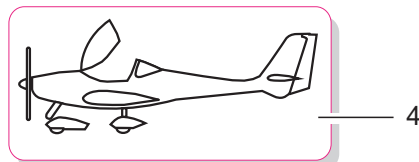
Detail- **C**



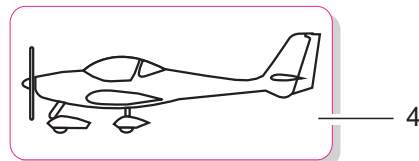
1) Beringer wheels
2) Cleveland/Grove wheels

2 — Aufbockpunkt Detail- **D** Jack Point — 1

Detail- **E**



Detail- **F**



Exterior Placards & Markings
Figure 1 (2)

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1 (2)			Exterior Placards & Markings	
1	1	AT01-2820-120	exterior placard set (English)	101 - 299
		AT01-1120-104	exterior placard set (English)	300 - 999
2	1	AT01-2820-110	exterior placard set (German)	101 - 299
		AT01-1120-105	exterior placard set (German)	300 - 999
-3	1	AT01-2820-121	exterior placard set (French)	101 - 299
4	1	AT01-1130-113	canopy opening placard set	

- Item not illustrated

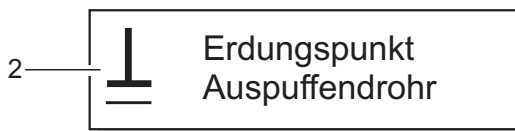
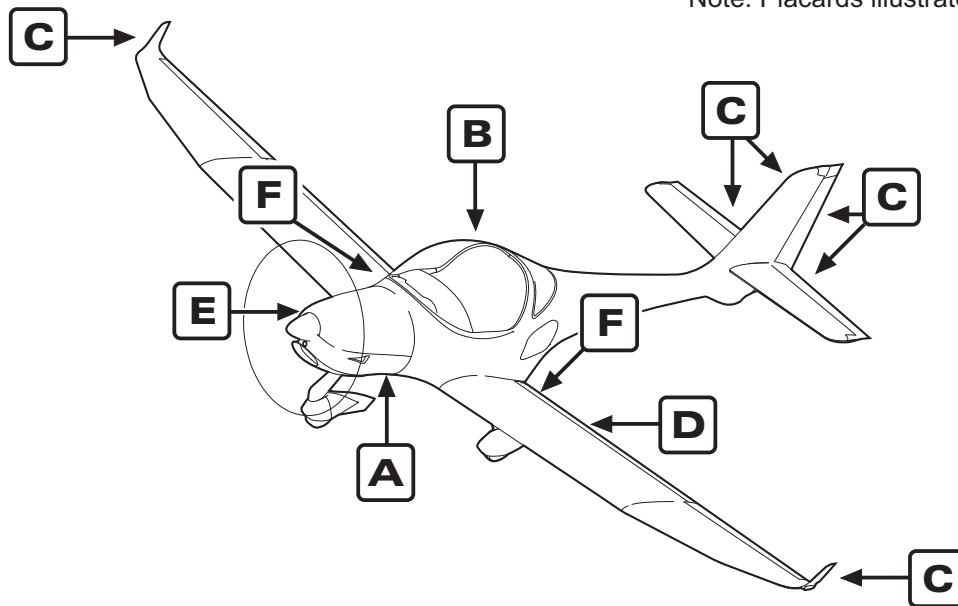
Exterior Placards & Markings
Figure 1 (2)

11-20-00

Page 5

19.11.25

Note: Placards illustrated not in scale.



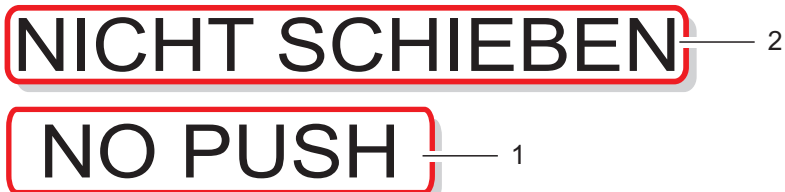
Detail- **A**



Detail- **B**



Detail- **C**



Detail- **D**



Detail- **F**



Detail- **E**



Exterior Placards & Markings
Figure 1 (3)

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1 (3)			Exterior Placards & Markings	
1	1	AT01-2820-120	exterior placard set (English)	101 - 299
		AT01-1120-104	exterior placard set (English)	300 - 999
2	1	AT01-2820-110	exterior placard set (German)	101 - 299
		AT01-1120-105	exterior placard set (German)	300 - 999
-3	1	AT01-2820-121	exterior placard set (French)	101 - 299
4	1	AT01-4220-116	flap placard	101 - 299
		AT01-1120-103	flap placard	300 - 999

- Item not illustrated

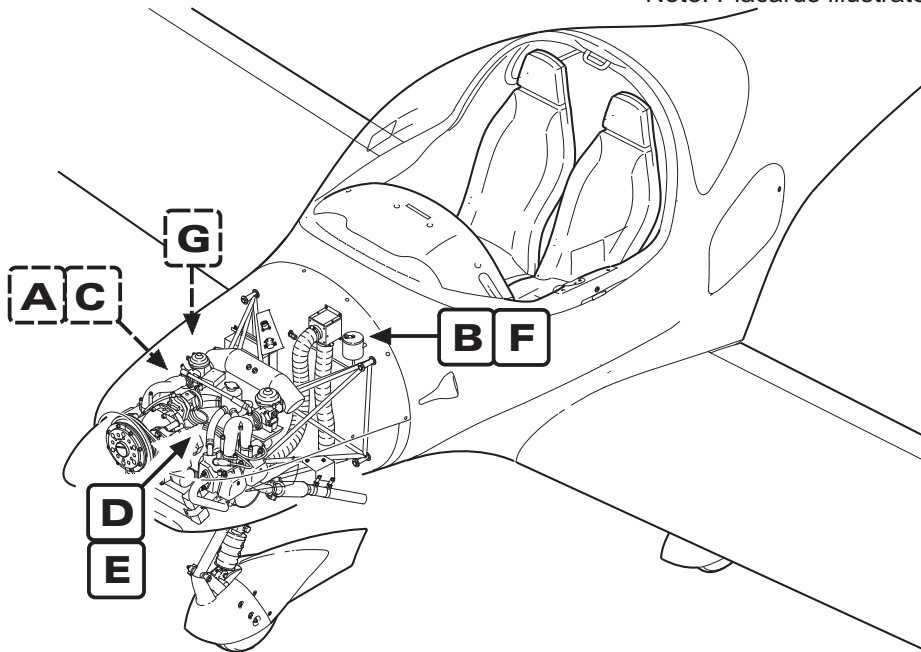
Exterior Placards & Markings
Figure 1 (3)

11-20-00

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Note: Placards illustrated not in scale.



2	! ACHTUNG ! <u>Kein</u> Flugmotorenöl einfüllen. Siehe Flughandbuch	Detail- A	1	! CAUTION ! <u>DO NOT</u> use aviation grade oil Refer to POH
2	! ACHTUNG ! <u>Keine</u> Automobilbremsflüssigkeit verwenden. Siehe Flughandbuch	Detail- B	1	! CAUTION ! <u>DO NOT</u> use automotive brake fluid Refer to POH
2	ÖLFÜLLUNG 3,0 Liter SIEHE FLUGHANDBUCH	Detail- C	1	OIL CAPACITY 3.17 US quarts, 3,0 Liter REFER to POH
2	KÜHLMITTEL- AUSGLEICHSGEFÄSS BEI HEISSEM TRIEBWERK NICHT ÖFFNEN!	Detail- D	1	COOLANT DO NOT OPEN IF ENGINE IS HOT!
2	KÜHLWASSERFÜLLUNG 2,5 Liter SIEHE FLUGHANDBUCH	Detail- E	1	COOLANT CAPACITY 2.64 US quarts, 2,5 Liter REFER to POH
2	HYDRAULIKÖL FLUID 4	Detail- F	1	HYD. BRAKE FLUID (FLUID 4)
2	KÜHLMITTEL	Detail- G	1	COOLANT

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1 (4)			Exterior Placards & Markings	
1	1	AT01-2820-120	exterior placard set (English)	101 - 299
		AT01-1120-104	exterior placard set (English)	300 - 999
2	1	AT01-2820-110	exterior placard set (German)	101 - 299
		AT01-1120-105	exterior placard set (German)	300 - 999
-3	1	AT01-2820-121	exterior placard set (French)	101 - 299

- Item not illustrated

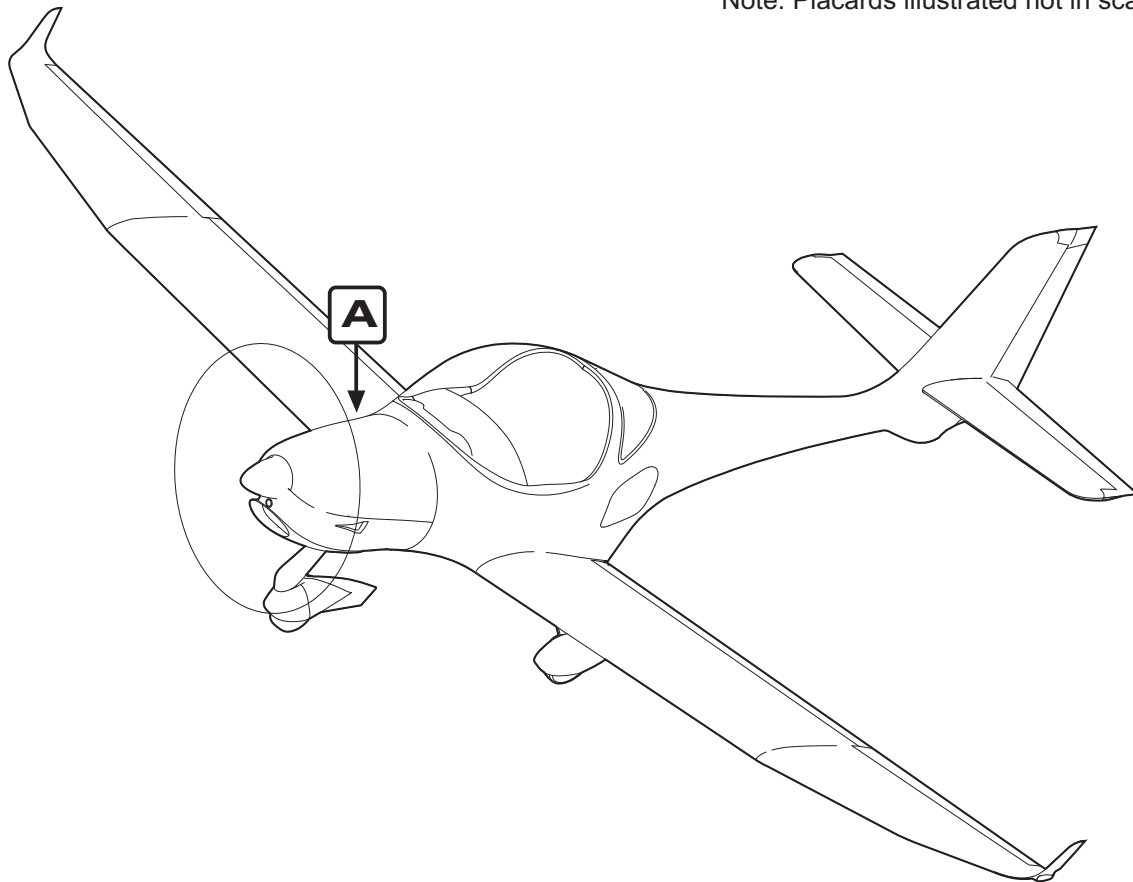
Exterior Placards & Markings
Figure 1 (4)

11-20-00

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19.11.25

Note: Placards illustrated not in scale.



EFFECTIVITY

Aircraft equipped
with external power
receptacle

Exterior Placards & Markings
Figure 1 (5)

11-20-00

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19.11.25

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1 (5)			Exterior Placards & Markings	Ext. power
1	1	AT01-2820-120	exterior placard set (English)	101 - 299
		AT01-1120-104	exterior placard set (English)	300 - 999
2	1	AT01-2820-110	exterior placard set (German)	101 - 299
		AT01-1120-105	exterior placard set (German)	300 - 999
-3	1	AT01-2820-121	exterior placard set (French)	101 - 299

- Item not illustrated

Exterior Placards & Markings
Figure 1 (5)

11-20-00

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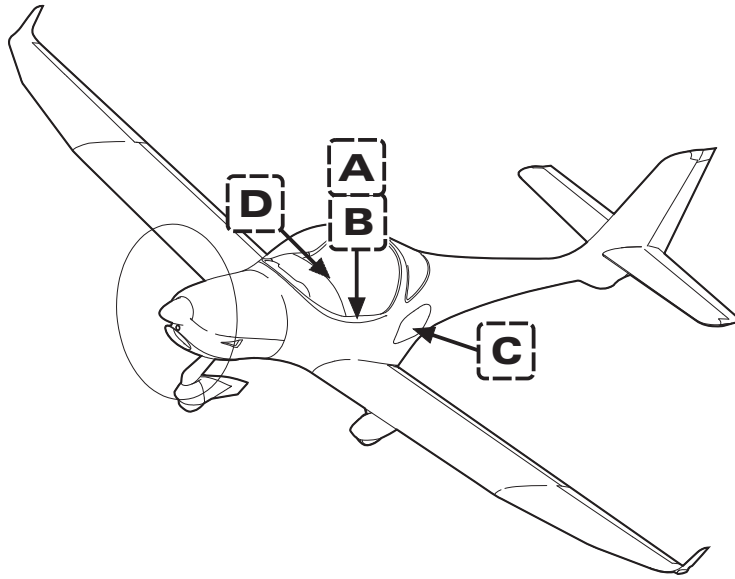
19.11.25



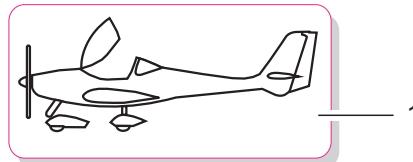
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INTERIOR
PLACARDS & MARKINGS

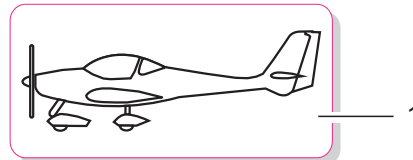
Note: Placards illustrated not in scale.



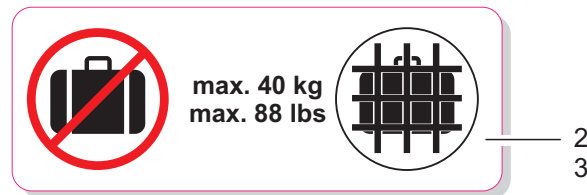
Detail- **A**



Detail- **B**



Detail- **C**



Interior Placards & Markings
Figure 1 (1)

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1 (1)			Interior Placards & Markings	
1	1	AT01-1130-113	canopy opening placard	
2	1	AT01-2820-161	interior placard set (English / 3 CB rows)	101 - 242
		AT01-2820-199	interior placard set (English / 4 CB rows)	243 - 299
		AT01-1130-102	interior placard set (English / 4 CB rows)	300 - 319
		AT01-1130-105	interior placard set (English / 5 CB rows)	320 - 999
3	1	AT01-2820-160	interior placard set (German / 3 CB rows)	101 - 242
		AT01-2820-187	interior placard set (German / 4 CB rows)	243 - 299
		AT01-1130-103	interior placard set (German / 4 CB rows)	300 - 319
		AT01-1130-104	interior placard set (German / 5 CB rows)	320 - 999
-4	1	AT01-2820-162	interior placard set (French / 3 CB rows)	101 - 242

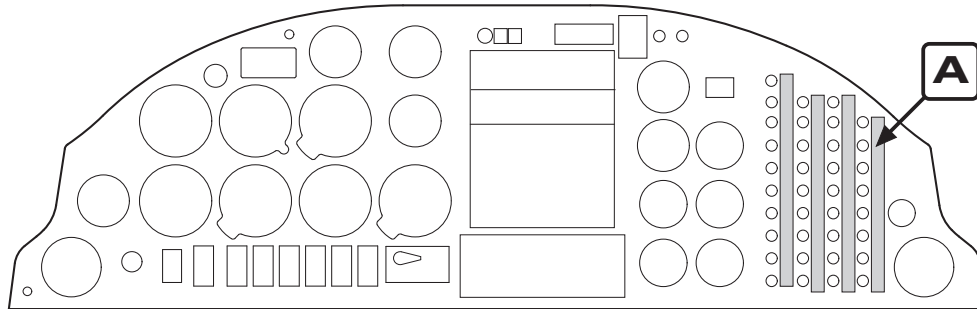
(CB = circuit breaker)

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Note: Placards illustrated not in scale.

Placards may vary in existence and location depending on instrumentation.



Schalter Leiste	Kraftstoff Pumpe MAIN	Künstl. Horizont	Audio	Kraftst. Pumpe Test
Schalter Leiste	CHT (OAT)	Wende Zeiger	COM 1	ADF
HR Trim	Kraftstoff Vorrat	Kurs Kreisel	COM 2	DME
Klappen Strg	Motor Instr. 1	MFD	NAV/GPS 1	WX
Klappen Motor	Motor Instr. 2	PFD	NAV/GPS 2	ADAHRS 1
Start Relais	TCU	Kontr. Leuchten	TXP	ADAHRS 2
ALT 2	ALT 2 Trennung	Flut-Licht	Höhen Kodierer	GAD PWR
ALT 1	ALT 1 Erregung	Überzieh Warnung	Traffic	MOTOR SNSR
BAT	12V/USB	G5 ATT	G5 GAD	GPS

2

Switch Panel	Fuel Pump MAIN	Attitude Indicator	Audio	Fuel Pump Test
Switch Panel	CHT (OAT)	Turn Coordin.	COM 1	ADF
Elevator Trim	Fuel Gauge	Directional Gyro	COM 2	DME
Flap Control	Engine Instr. 1	MFD	NAV/GPS 1	WX
Flap Actuator	Engine Instr. 2	PFD	NAV/GPS 2	ADAHRS 1
Starter Relay	TCU	Warning Lights	TXP	ADAHRS 2
ALT 2	ALT 2 Disconnect	Flood Light	Blind Encoder	GAD PWR
ALT 1	ALT 1 Excitation	Stall Warning	Traffic Monitor	ENG SNSR
BAT	12V/USB	G5 ATT	G5 GAD	GPS

1

Detail-**A**

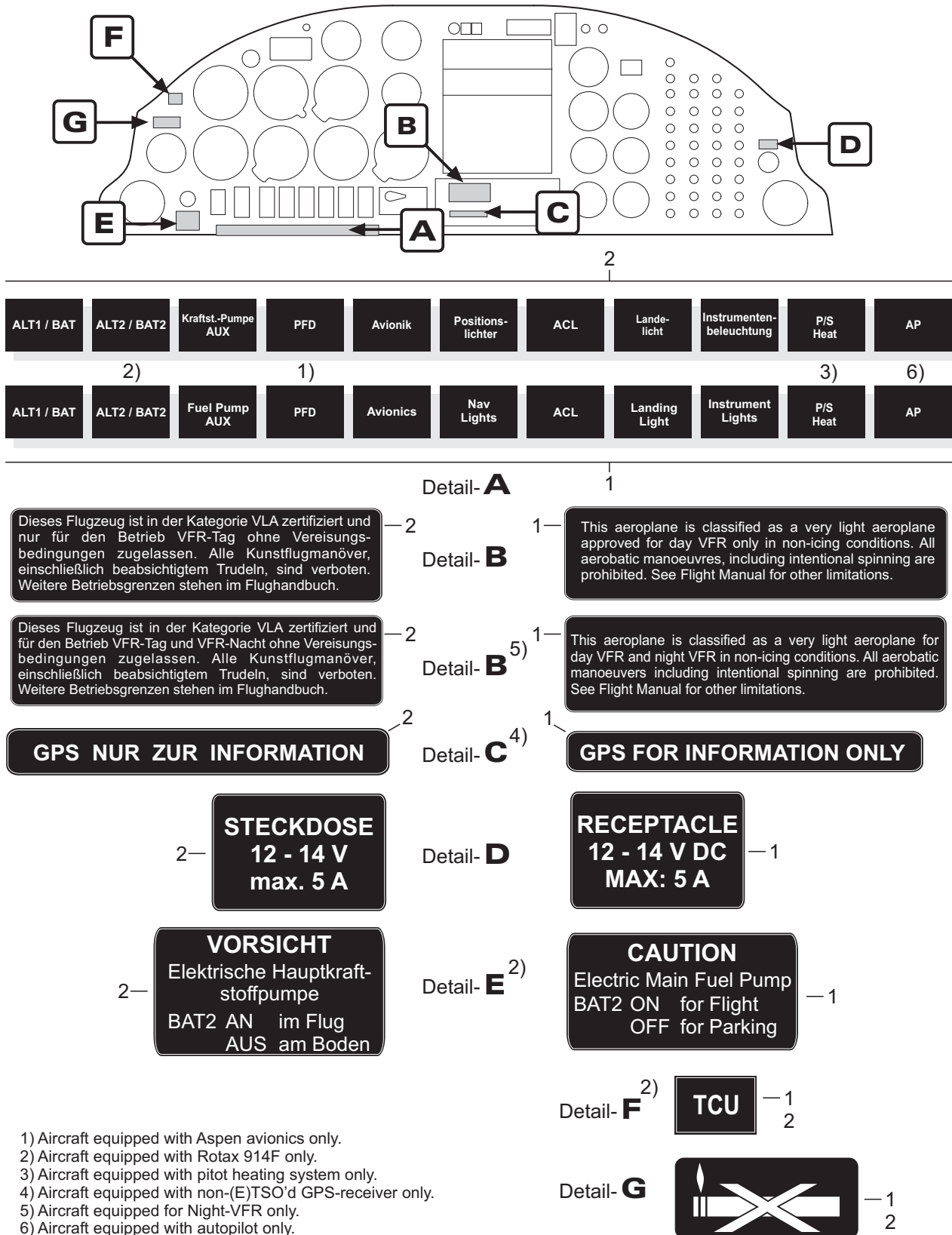
Interior Placards & Markings
Figure 1 (2)

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1 (2)			Interior Placards & Markings	
1	1	AT01-2820-161	interior placard set (English / 3 CB rows)	101 - 242
		AT01-2820-199	interior placard set (English / 4 CB rows)	243 - 299
		AT01-1130-102	interior placard set (English / 4 CB rows)	300 - 319
		AT01-1130-105	interior placard set (English / 5 CB rows)	320 - 999
2	1	AT01-2820-160	interior placard set (German / 3 CB rows)	101 - 242
		AT01-2820-187	interior placard set (German / 4 CB rows)	243 - 299
		AT01-1130-103	interior placard set (German / 4 CB rows)	300 - 319
		AT01-1130-104	interior placard set (German / 5 CB rows)	320 - 999
-3	1	AT01-2820-162	interior placard set (French / 3 CB rows)	101 - 242

(CB = circuit breaker)

Note: Placards illustrated not in scale.

Placards may vary in existence and location depending on instrumentation.



- 1) Aircraft equipped with Aspen avionics only.
- 2) Aircraft equipped with Rotax 914F only.
- 3) Aircraft equipped with pitot heating system only.
- 4) Aircraft equipped with non-(E)TSO'd GPS-receiver only.
- 5) Aircraft equipped for Night-VFR only.
- 6) Aircraft equipped with autopilot only.

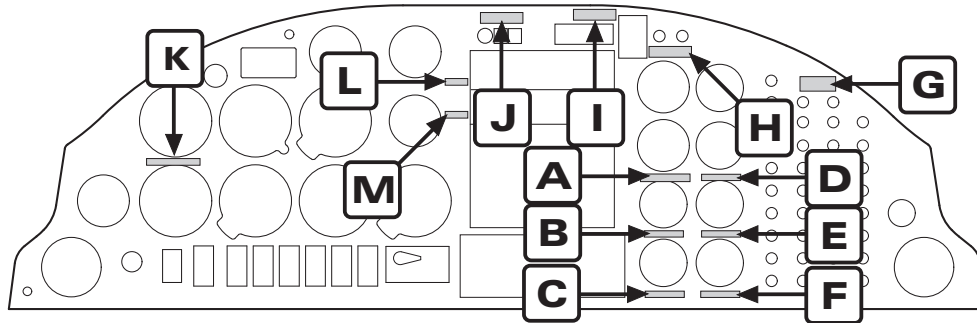
Interior Placards & Markings
Figure 1 (3)

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1 (3)			Interior Placards & Markings	
1	1	AT01-2820-161	interior placard set (English / 3 CB rows)	101 - 242
		AT01-2820-199	interior placard set (English / 4 CB rows)	243 - 299
		AT01-1130-102	interior placard set (English / 4 CB rows)	300 - 319
		AT01-1130-105	interior placard set (English / 5 CB rows)	320 - 999
2	1	AT01-2820-160	interior placard set (German / 3 CB rows)	101 - 242
		AT01-2820-187	interior placard set (German / 4 CB rows)	243 - 299
		AT01-1130-103	interior placard set (German / 4 CB rows)	300 - 319
		AT01-1130-104	interior placard set (German / 5 CB rows)	320 - 999
-3	1	AT01-2820-162	interior placard set (French / 3 CB rows)	101 - 242

(CB = circuit breaker)

Note: Placards illustrated not in scale.

Placards may vary in existence and location depending on instrumentation.



2— KRAFTSTOFF 109,6 Liter ausfliegbar	Detail- A	FUEL CAPACITY 28.9 GAL / 109.6 LITER USABLE —1
Detail- B	VOLTMETER —1 2	
2— AMPEREMETER	Detail- C	AMMETER —1
2— ZYL. KOPF TEMP.	Detail- D	CYL. HEAD TEMP. —1
2— ÖLTEMPERATUR	Detail- E	OIL TEMP. —1
2— ÖLDRUCK	Detail- F	OIL PRESS. —1
2— ELT und Feuerlöscher hinter dem Copilotensitz	Detail- G	ELT and Fire-Extinguisher behind Copilot seat —1
2— 0 I-BRETT- BELEUCHTUNG D POSTLIGHTS M INSTRUMENTE	Detail- H	2— 0 I-BRETT- BELEUCHTUNG D POSTLIGHTS M INSTRUMENTE —1
2— ELT-FERNBEDIENUNG ELT Hauptschalter auf ARMED stellen!	Detail- I	ELT-REMOTE CONTROL Switch ELT-transmitter to ARM ! —1
KRAFTSTOFF- DRUCK SPANNUNG ALT1 ALT2 P/S HEAT 2	Detail- J	FUEL VOLT ALT1 ALT2 P/S HEAT 1
2— Manövergeschwindigkeit VA = 112 kts	Detail- K	Maneuvering Speed VA = 112 kts —1
Detail- L	COM/NAV 1 —1 2	
Detail- M	COM/NAV 2 —1 2	

Interior Placards & Markings
Figure 1 (4)

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1 (4)			Interior Placards & Markings	
1	1	AT01-2820-161	interior placard set (English / 3 CB rows)	101 - 242
		AT01-2820-199	interior placard set (English / 4 CB rows)	243 - 299
		AT01-1130-102	interior placard set (English / 4 CB rows)	300 - 319
		AT01-1130-105	interior placard set (English / 5 CB rows)	320 - 999
2	1	AT01-2820-160	interior placard set (German / 3 CB rows)	101 - 242
		AT01-2820-187	interior placard set (German / 4 CB rows)	243 - 299
		AT01-1130-103	interior placard set (German / 4 CB rows)	300 - 319
		AT01-1130-104	interior placard set (German / 5 CB rows)	320 - 999
-3	1	AT01-2820-162	interior placard set (French / 3 CB rows)	101 - 242

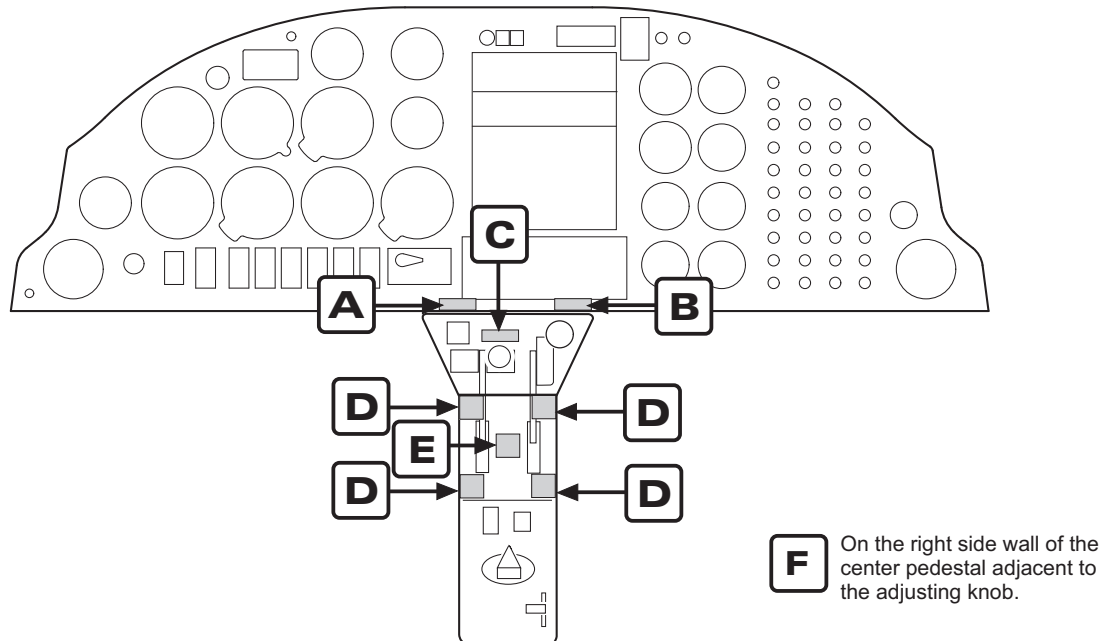
(CB = circuit breaker)

AQUILA AT01

ILLUSTRATED PARTS CATALOG

Note: Placards illustrated not in scale.

Placards may vary in existence and location depending on instrumentation.



2— **ALTERNATE AIR / VERGASERVORW. ZIEHEN EIN** Detail- **A** **ALTERNATE AIR / CARB. HEAT PULL ON** —1

2— **CHOKE ZIEHEN EIN** Detail- **B** **CHOKE PULL ON** —1

2— **HEIZUNG ZIEHEN EIN** Detail- **C** **CABIN HEAT PULL ON** —1

2— **VOLLGAS** **START Max. RPM** **OPEN** **HIGH RPM**
LEERLAUF **Min. RPM REISE** **IDLE** **LOW RPM**

Detail- **D**

Detail- **E** ¹⁾ **MCP** —1
 2

1) A/C equipped with MVP-50 or G3X.
 Placard located at propeller position for max. continuous RPM.

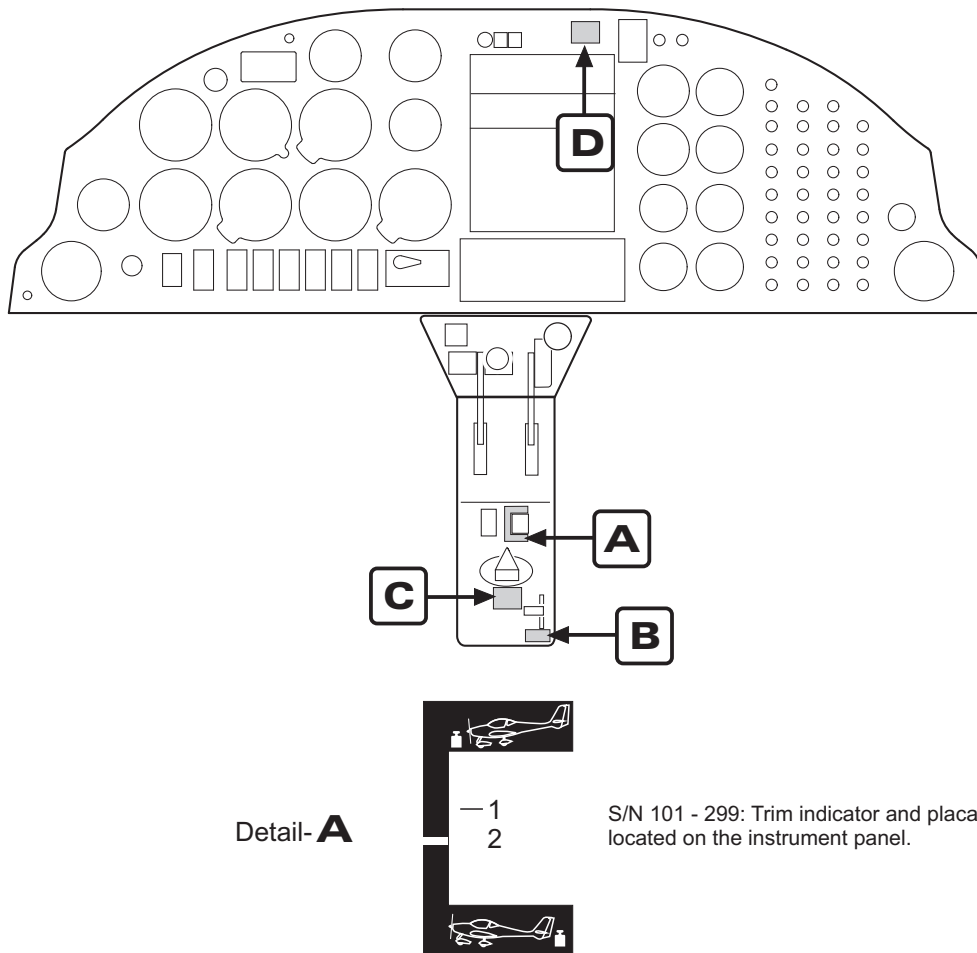
2— **REIBVERSTELLUNG Leistung / Propeller** Detail- **F** **FRICTION LOCK Power / Prop** —1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1 (5)			Interior Placards & Markings	
1	1	AT01-2820-161	interior placard set (English / 3 CB rows)	101 - 242
		AT01-2820-199	interior placard set (English / 4 CB rows)	243 - 299
		AT01-1130-102	interior placard set (English / 4 CB rows)	300 - 319
		AT01-1130-105	interior placard set (English / 5 CB rows)	320 - 999
2	1	AT01-2820-160	interior placard set (German / 3 CB rows)	101 - 242
		AT01-2820-187	interior placard set (German / 4 CB rows)	243 - 299
		AT01-1130-103	interior placard set (German / 4 CB rows)	300 - 319
		AT01-1130-104	interior placard set (German / 5 CB rows)	320 - 999
-3	1	AT01-2820-162	interior placard set (French / 3 CB rows)	101 - 242

(CB = circuit breaker)

Note: Placards illustrated not in scale.

Placards may vary in existence and location depending on instrumentation.



Detail- **A**

— 1
— 2

S/N 101 - 299: Trim indicator and placard located on the instrument panel.

2— **PARKBREMSE
ZIEHEN EIN**

Detail- **B**

— 1 **PARKING BRAKE
PULL SET**

2— **KRAFTSTOFF
AUSFLIEGBAR
109,6 LITER

TANKWECHSEL
ALLE 60 MIN
VORNEHMEN**

Detail- **C**

— 1 **FUEL
USABLE
109.6 LTR
28.9 GAL
SWITCH TANKS
EVERY 60 MIN**

The unusable amount of fuel depends on model and S/N. Refer to maintenance manual (12-10) for fuel capacities and use the corresponding placard.

2— **“Direct-to”-
Knopf auf
NAV/GPS 1
drücken und
halten um
Smart Glide
zu aktivieren**

Detail- **D**

— 1 **Press & hold
“Direct-to”
button on
NAV/GPS 1
to activate
Smart Glide**

Aircraft equipped with Garmin GTN 650 Xi only. Placard close to GTN 650 Xi.

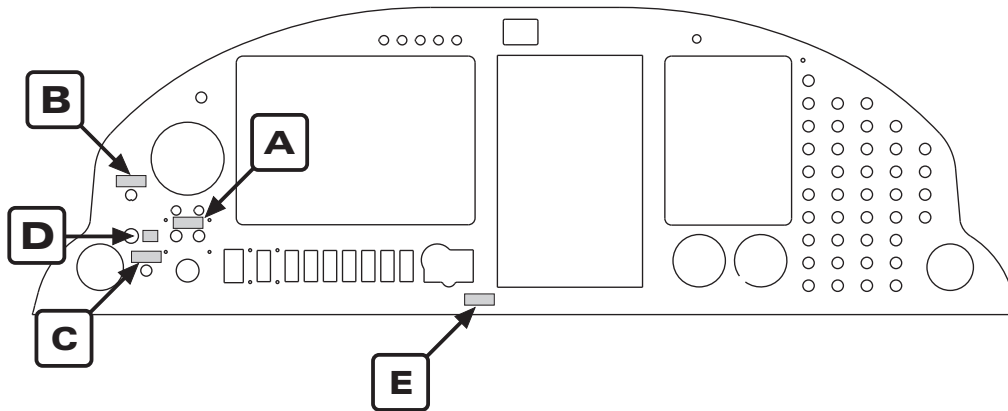
Interior Placards & Markings
Figure 1 (6)

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1 (6)			Interior Placards & Markings	
1	1	AT01-2820-161	interior placard set (English / 3 CB rows)	101 - 242
		AT01-2820-199	interior placard set (English / 4 CB rows)	243 - 299
		AT01-1130-102	interior placard set (English / 4 CB rows)	300 - 319
		AT01-1130-105	interior placard set (English / 5 CB rows)	320 - 999
2	1	AT01-2820-160	interior placard set (German / 3 CB rows)	101 - 242
		AT01-2820-187	interior placard set (German / 4 CB rows)	243 - 299
		AT01-1130-103	interior placard set (German / 4 CB rows)	300 - 319
		AT01-1130-104	interior placard set (German / 5 CB rows)	320 - 999
-3	1	AT01-2820-162	interior placard set (French / 3 CB rows)	101 - 242

(CB = circuit breaker)

Note: Placards illustrated not in scale.

Placards may vary in existence and location depending on instrumentation.



1— **LANE A LANE B** Detail- **A**
2—

1— **ENG BACKUP PWR** Detail- **B**
2—

1— **ENG START PWR** Detail- **C**
2—

2— **Kraftst.
Pumpe
Test** Detail- **D** **Fuel
Pump
Test** —1

2— **ALTERNATE AIR
ZIEHEN EIN** Detail- **E** **ALTERNATE AIR
PULL ON** —1

EFFECTIVITY

Aircraft equipped
with Rotax 912iS

Interior Placards & Markings
Figure 1 (7)

11-30-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1 (7)			Interior Placards & Markings	Rotax 912iS
	1	AT01-1130-105	interior placard set (English / 5 CB rows)	
	2	AT01-1130-104	interior placard set (German / 5 CB rows)	
			(CB = circuit breaker)	

- Item not illustrated

Interior Placards & Markings
Figure 1 (7)

11-30-00

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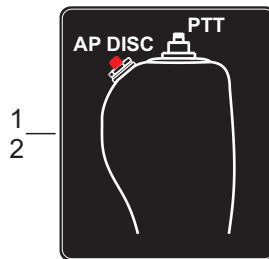
Note: Placards illustrated not in scale.
Placards may vary in existence and location depending on instrumentation.

Detail- **A**

1—	AP operation restricted to $\geq 2000\text{ft AGL}$		
	Speed range 60 KIAS to 150 KIAS with Flaps up (cruise) only		
if indicated	↓	Trim ELE DN / FWD	in intervals of max. 2 sec.
	↑	Trim ELE UP / AFT	

2—	AP-Betrieb beschränkt auf $\geq 2000\text{ft AGL}$		
	Geschwindigkeitsbereich 60 - 150 KIAS, ausschließlich mit Klappen in Reisestellung		
wenn angezeigt	↓	ELE DN / VORNE trimmen	in Intervallen von max. 2 Sek.
	↑	ELE UP / HINTEN trimmen	

Detail- **B**



Placard located on both control sticks.

Detail- **C**



Placard located on roll / pitch servo pushrod.

Detail- **D**



Placard located on yaw / roll / pitch servo.

EFFECTIVITY

Aircraft equipped
with autopilot

Interior Placards & Markings
Figure 1 (8)

11-30-00

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ILLUSTRATED PARTS CATALOG

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1 (8)			Interior Placards & Markings	Autopilot
1	1	AT01-1130-105	interior placard set (English / 5 CB rows)	
2	1	AT01-1130-104	interior placard set (German / 5 CB rows)	
(CB = circuit breaker)				

- Item not illustrated

Interior Placards & Markings
Figure 1 (8)

11-30-00

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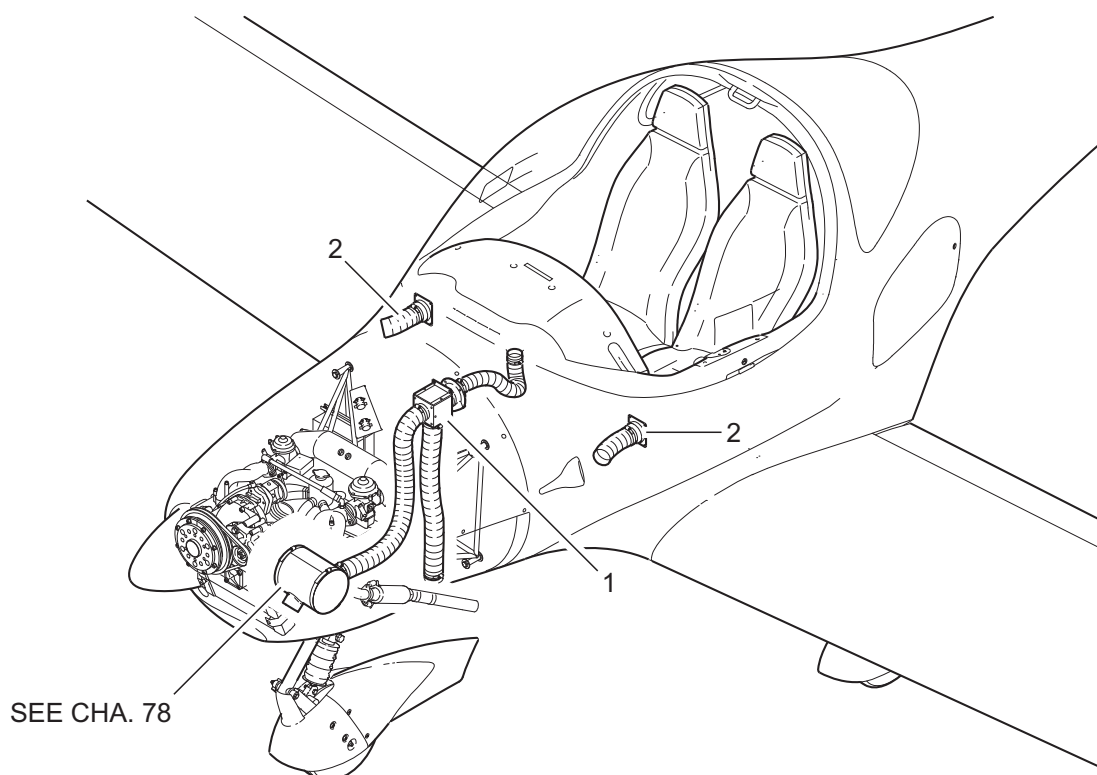
AQUILA AT01
ILLUSTRATED PARTS CATALOG

CHAPTER 21
VENTILATION & HEATING

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Fresh Air Nozzles	21-00-00	6C	300 - 999

VENTILATION & HEATING
GENERAL



Ventilation & Heating - General
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Ventilation & Heating - General	
	1		Heating System Components (refer to 21-00-00, figure 2A for details)	101 - 202
	1		Heating System Components (refer to 21-00-00, figure 2B for details)	203 - 999
	2		Fresh Air Nozzles (refer to 21-00-00, figure 3A for details)	101 - 198
	2		Fresh Air Nozzles (refer to 21-00-00, figure 3B for details)	199 - 299
	2		Fresh Air Nozzles (refer to 21-00-00, figure 3C for details)	300 - 999

- Item not illustrated

Ventilation & Heating - General
Figure 1

21-00-00

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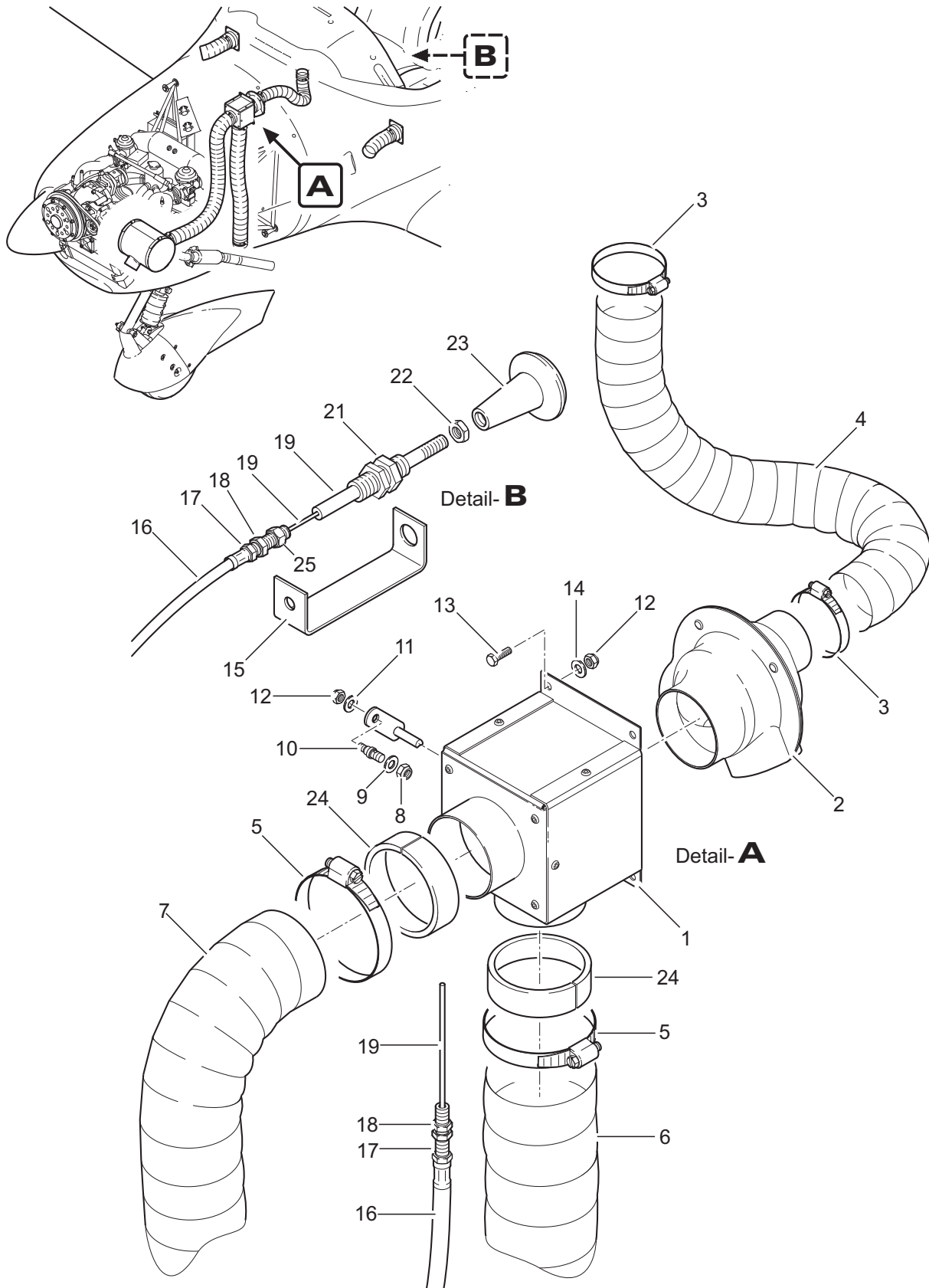


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2A			Heating System Components	101 - 202
1	1	AT01-2600-002	heating box	
2	1	AT01-2600-003	hot air manifold cabin	
3	2	AT01-4520_TO25-40/9C7W1	hose clamp (DIN 3017 25-40mm)	
4	1	AT01-4520-605	air hose (black / Ø 42mm / 500mm)	
		AT01-4520-559	air hose (red / Ø 42mm / 500mm) (optional)	
5	2	AT01-4520_TO50-70/9C7W2	hose clamp (DIN 3017 50-70mm)	
6	1	AT01-4520-600	air hose (red / Ø 63mm / 730mm)	
7	1	AT01-4520-600	air hose (red / Ø 63mm / 1050mm)	
8	1	1800985_M5	locknut (ISO 10511 M5)	
9	1	1800125_5,3	washer (ISO 7089 5,3x10)	
10	1	AT01-2600-107	cable clamping screw	
11	1	1800125_4,3	washer (ISO 7089 4,3x9)	
12	5	1800985_M4	locknut (ISO 10511 M4)	
13	4	1800933_M4x20	bolt (ISO 4017 M4x20 8.8)	
14	4	1809021_4,3	washer (ISO 7093 4,3x12)	
15	1	AT01-7020-114	mounting bracket	
16	1	AT01-7020-130	Bowden wire shell (1080mm)	
17	1	AT01-4510-135	adjusting screw	
18	1	AT01-7020-132	nut	
19	1	AT01-7020-019	control wire assembly (1320mm / incl. pull rod)	
20	-	-	-	
21	1	AT01-7020-116	screw joint	
22	1	1800439_M5	nut (ISO 4035 M5)	
23	1	AT01-1860-611	control knob (M5)	
24	2	AT01-2600-129	adapter	
25	1	1800439_M6	nut (ISO 4035 M6)	

- Item not illustrated

Heating System Components
Figure 2A

21-00-00

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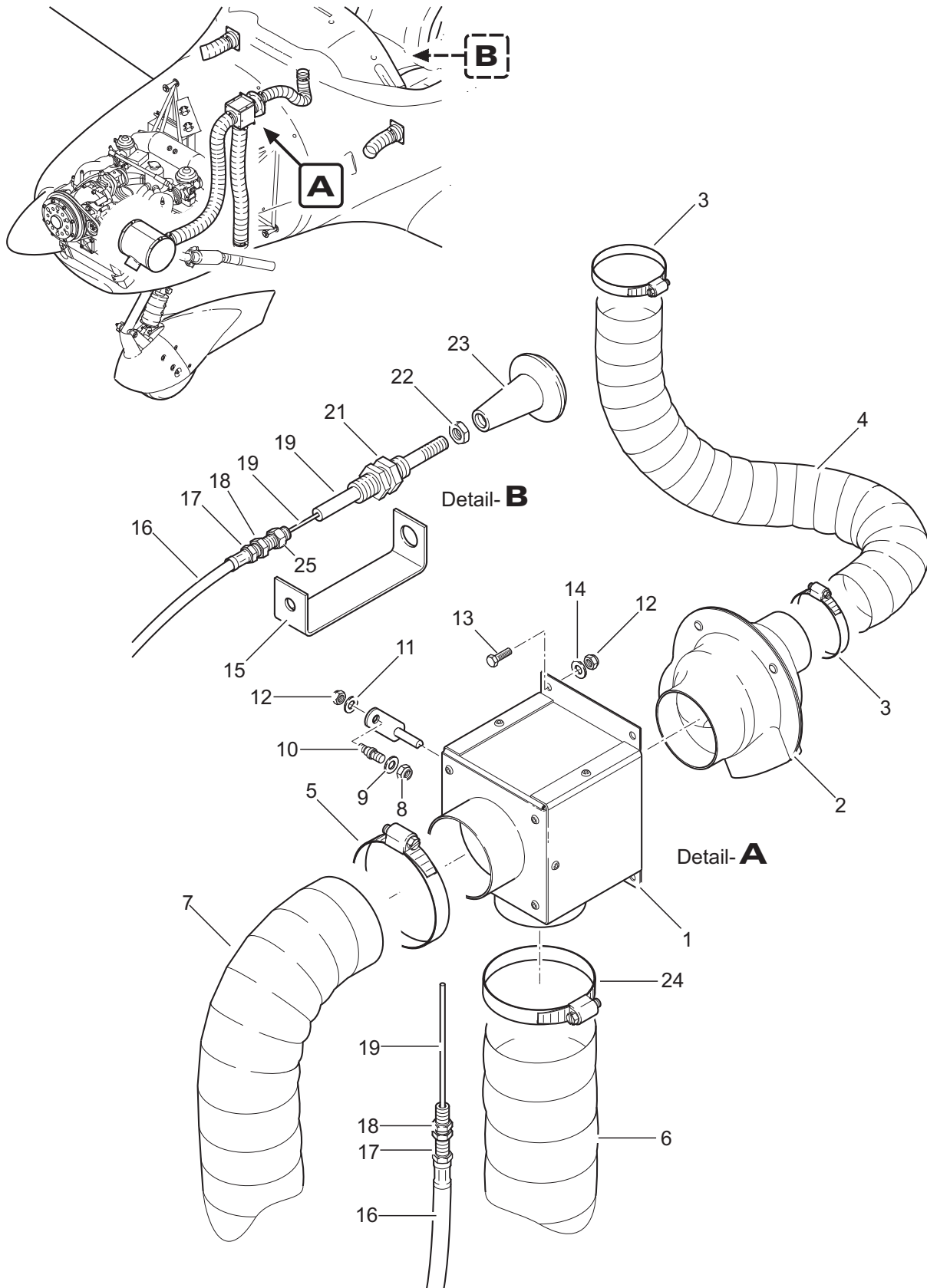


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2B			Heating System Components	203 - 999
1	1	AT01-2600-010	heating box	
2	1	AT01-2600-003	hot air manifold cabin	
3	2	AT01-4520_TO25-40/9C7W1	hose clamp (DIN 3017 25-40mm)	
4	1	AT01-4520-605	air hose (black / Ø 42mm / 500mm)	
		AT01-4520-559	air hose (red / Ø 42mm / 500mm) (optional)	
5	1	AT01-4520_TO50-70/9C7W2	hose clamp (DIN 3017 50-70mm)	
6	1	AT01-4520-601	air hose (red / Ø 51mm / 730mm)	
7	1	AT01-4520-600	air hose (red / Ø 63mm / 1050mm)	
8	1	1800985_M5	locknut (ISO 10511 M5)	
9	1	1800125_5,3	washer (ISO 7089 5,3x10)	
10	1	AT01-2600-107	cable clamping screw	
11	1	1800125_4,3	washer (ISO 7089 4,3x9)	
12	5	1800985_M4	locknut (ISO 10511 M4)	
13	4	1800933_M4x20	bolt (ISO 4017 M4x20 8.8)	
14	4	1809021_4,3	washer (ISO 7093 4,3x12)	
15	1	AT01-7020-114	mounting bracket	
16	1	AT01-7020-130	Bowden wire shell (1080mm)	
17	1	AT01-4510-135	adjusting screw	
18	1	AT01-7020-132	nut	
19	1	AT01-7020-019	control wire assembly (1320mm / incl. pull rod)	
20	-	-	-	
21	1	AT01-7020-116	screw joint	
22	1	1800439_M5	nut (ISO 4035 M5)	
23	1	AT01-1860-611	control knob (M5)	
24	1	AT01-4520_TO40-60/9C7W2	hose clamp (DIN 3017 40-60mm)	
25	1	1800439_M6	nut (ISO 4035 M6)	

- Item not illustrated

Heating System Components
Figure 2B

21-00-00

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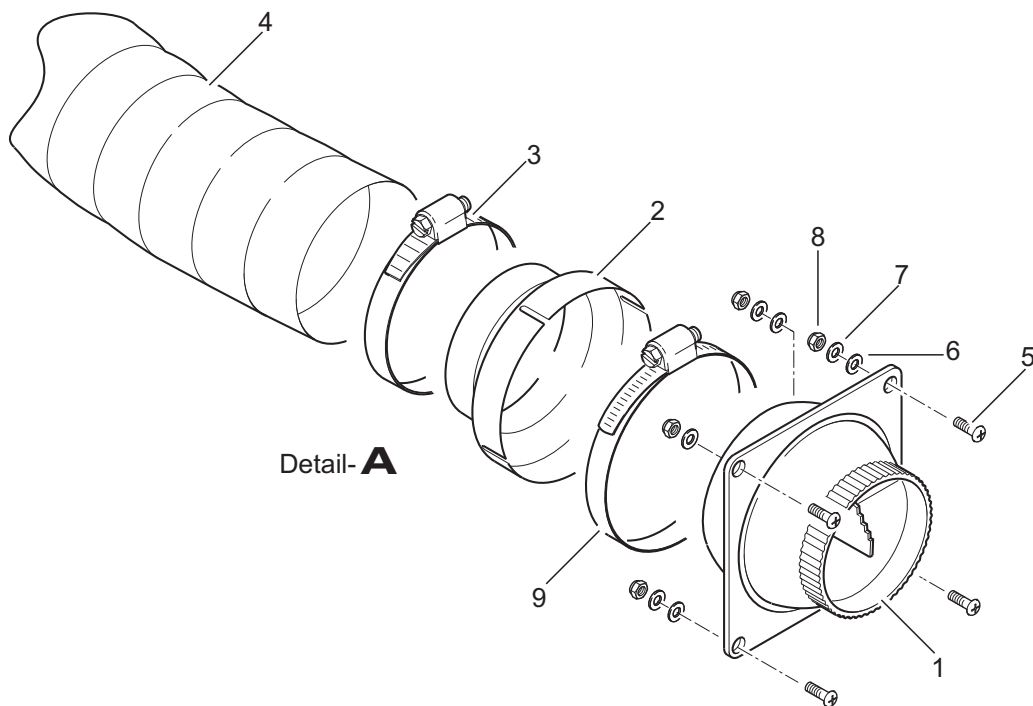
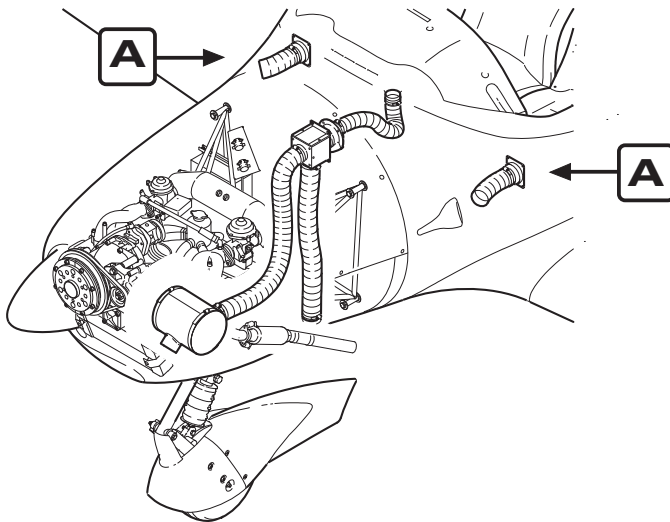


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3A			Fresh Air Nozzles	101 - 198
1	1	AT01-2630-100	air nozzle (for Ø 70mm mounting holes)	
2	1	AT01-2600-115	adapter tube	
3	1	AT01-4520_TO40-60/9C7W2	hose clamp (DIN 3017 40-60mm)	
4	1	AT01-4520-606	air hose (black / Ø 51mm / 245mm)	
		AT01-4520-601	air hose (red / Ø 51mm / 245mm) (optional)	
5	4	1810999	screw (ISO 7045 M4x20 brass)	
6	4	1800125_5,3	washer (ISO 7089 5,3x10)	
7	4	1806797_VZ/ I 4,3	lock washer	
8	4	1800934_M4	nut (ISO 4032 M4)	
9	1	AT01-4520_TO50-70/9C7W2	hose clamp (DIN 3017 50-70mm)	

- Item not illustrated

Fresh Air Nozzles
Figure 3A

21-00-00

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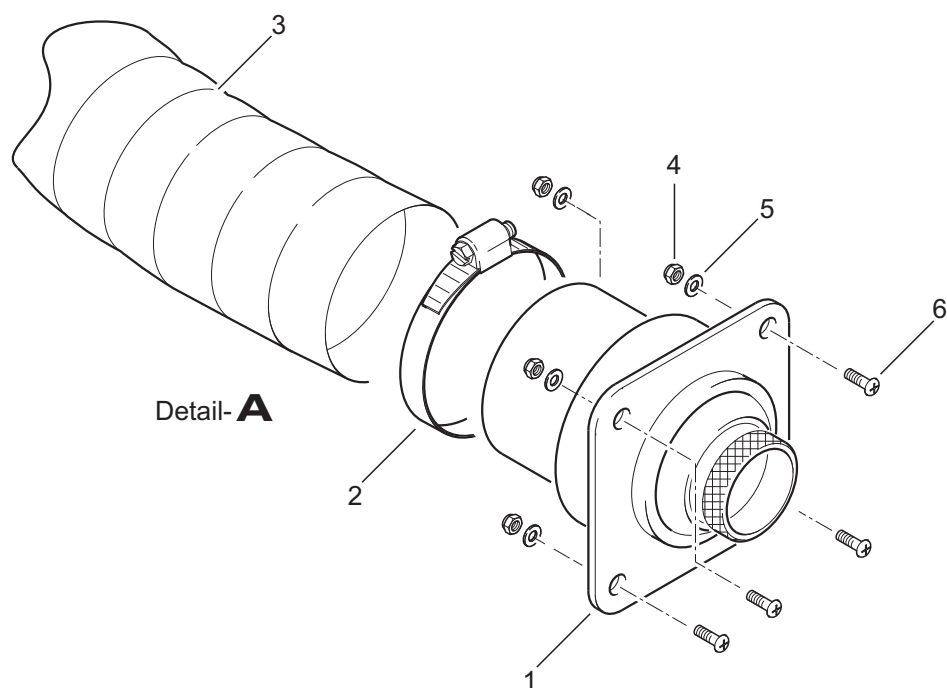
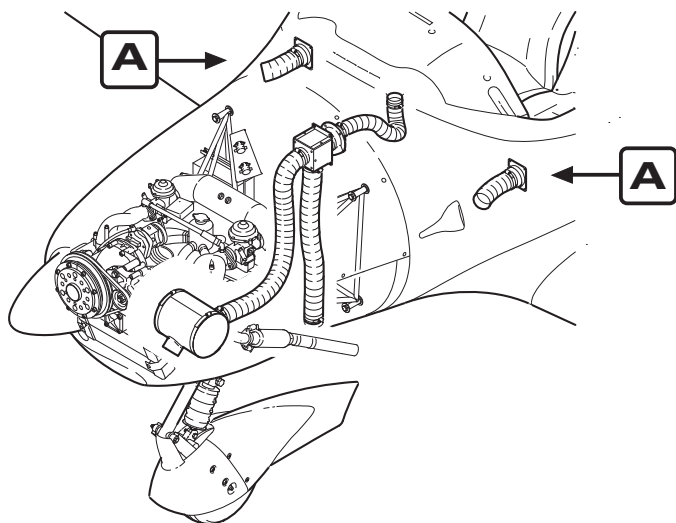


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3B			Fresh Air Nozzles	199 - 299
1	1	AT01-2630-103	air nozzle (for Ø 40mm mounting holes)	
2	1	AT01-4520_TO40-60/9C7W2	hose clamp (DIN 3017 40-60mm)	
3	1	AT01-4520-606	air hose (black / Ø 51mm / 245mm)	
		AT01-4520-601	air hose (red / Ø 51mm / 245mm) (optional)	
4	4	1800934_6-32UNC	nut	
5	4	1806797_VZ/ I 4,3	lock washer	
6	4	AT01-1840-100	screw	

- Item not illustrated

Fresh Air Nozzles
Figure 3B

21-00-00

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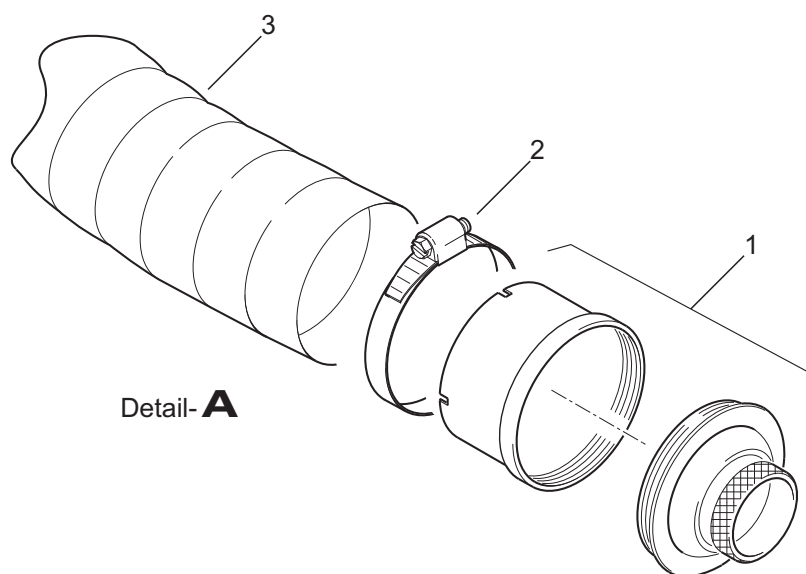
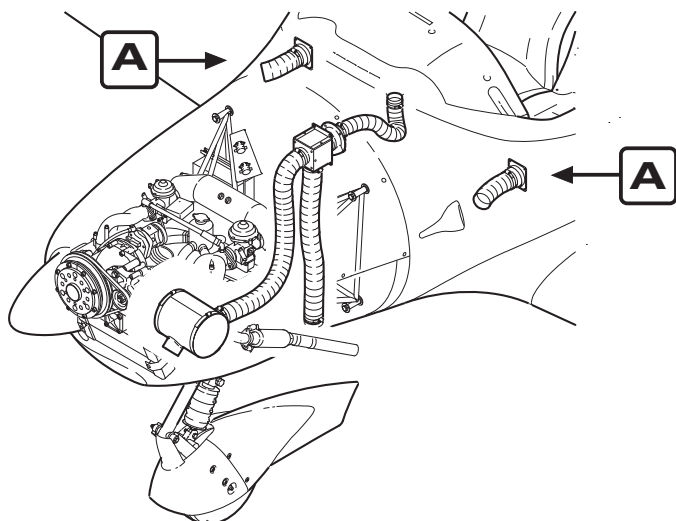


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3C			Fresh Air Nozzles	300 - 999
1	1	AT01-2630-105	air nozzle	
2	1	AT01-4520_TO40-60/9C7W2	hose clamp (DIN 3017 40-60mm)	
3	1	AT01-4520-606	air hose (black / Ø 51mm / 245mm)	
		AT01-4520-601	air hose (red / Ø 51mm / 245mm) (optional)	



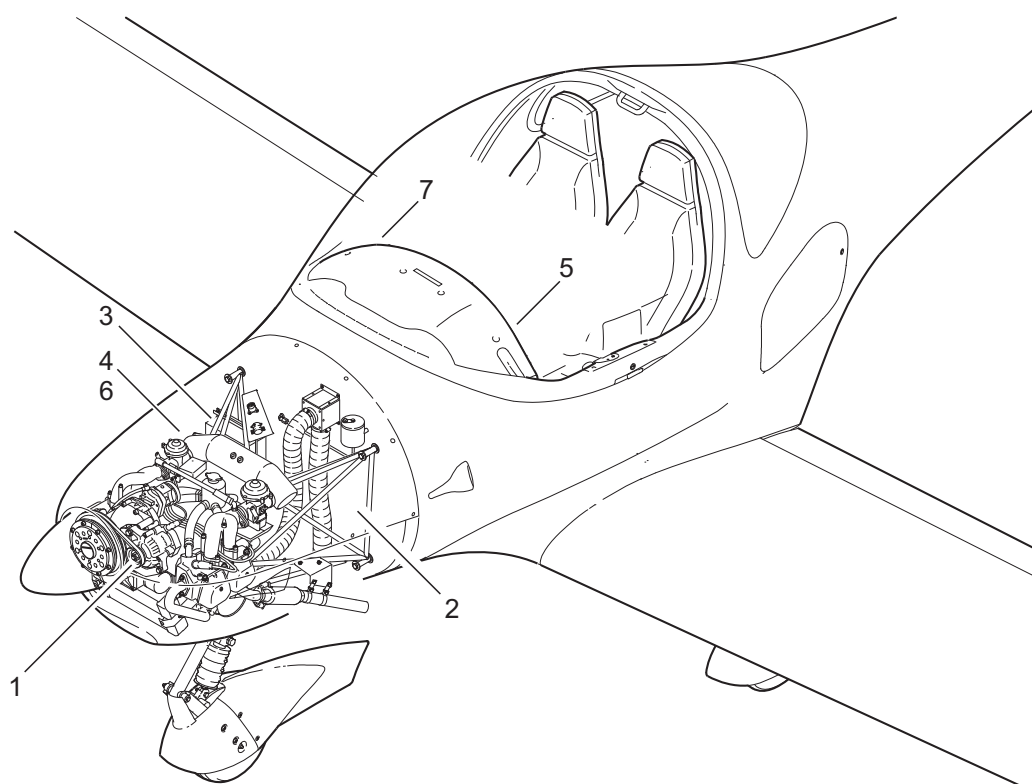
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ILLUSTRATED PARTS CATALOG

CHAPTER 24
ELECTRICAL POWER

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ELECTRICAL POWER
GENERAL



Electrical Power - General
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Electrical Power - General	
1			External Alternator Installation (refer to 24-20-00, figure 1 for details)	
2			Rectifier-Regulator Unit Installation (refer to 24-20-00, figure 2A for details)	Rotax 912S
-2			Rectifier-Regulator Unit Installation (refer to 24-20-00, figure 2B for details)	Rotax 914F
3			Main Battery Installation (refer to 24-30-00, figure 1 for details)	
4			External Power Components (refer to 24-40-00, figure 1 for details)	Ext. power
5			Electrical Components - Instrument Panel (refer to 24-60-00, figure 1 for details)	
6			Electrical Components - Engine Compartment (refer to 24-60-00, figure 2 for details)	
7			Circuit Breaker Panel (refer to 24-60-00, figure 3 for details)	

- Item not illustrated

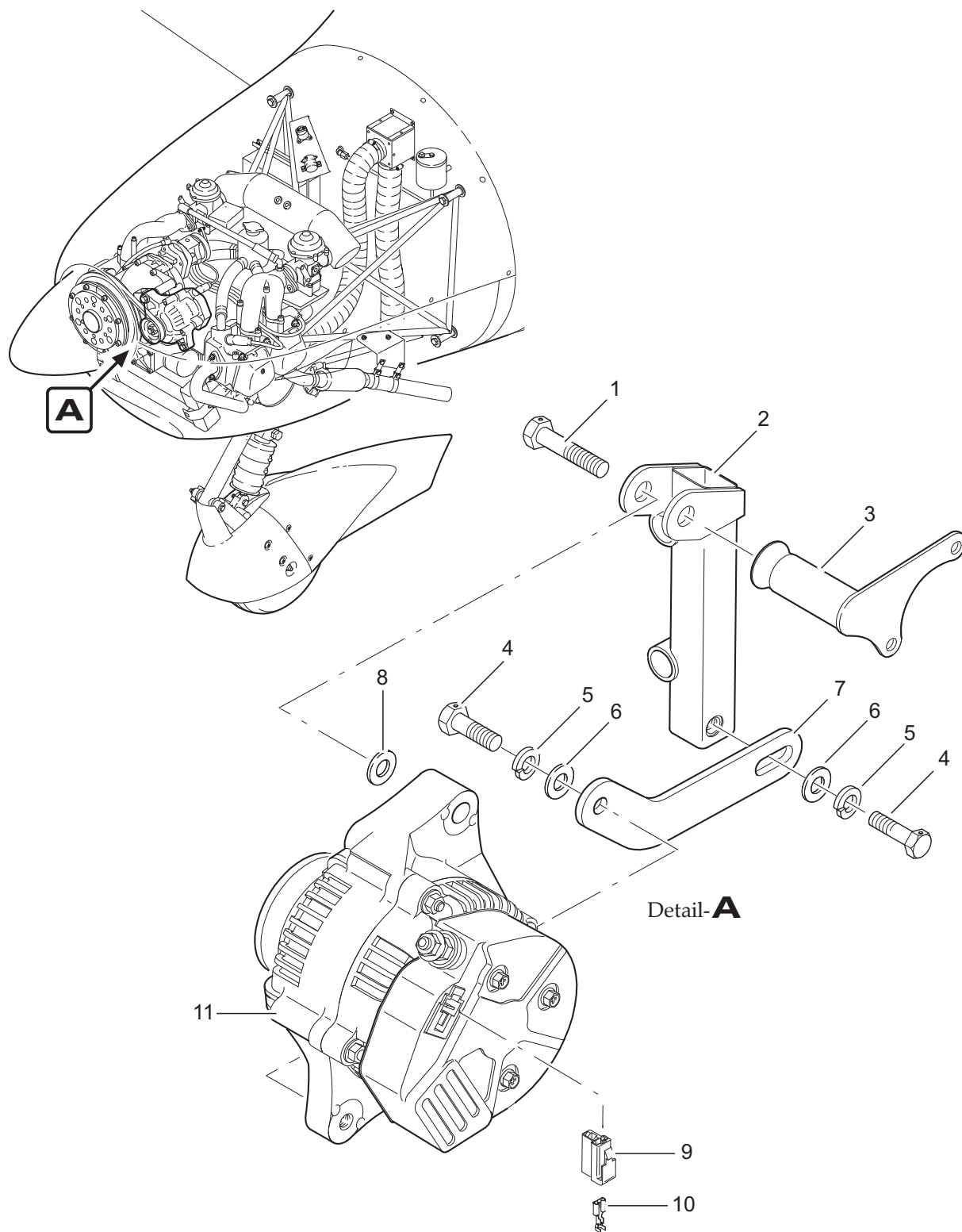
Electrical Power - General
Figure 1

24-00-00

Page 3

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ALTERNATOR SYSTEM



External Alternator Installation
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			External Alternator Installation	
1	1	Ro 941637	bolt (M10x45)	
2	1	Ro 953223	alternator bracket assy.	
3	1	Ro 953233	alternator support assy.	
4	2	Ro 940596	bolt (M8x20)	
5	2	Ro 954832	lock washer	
6	2	Ro 227936	washer	
7	1	Ro 953241	tension bar	
8	1	Ro 927952	washer	
9	1	Ro 265255	connector housing 2-pole	
10	2	Ro 864011	Faston connector	
11	1	Ro 887251	alternator	

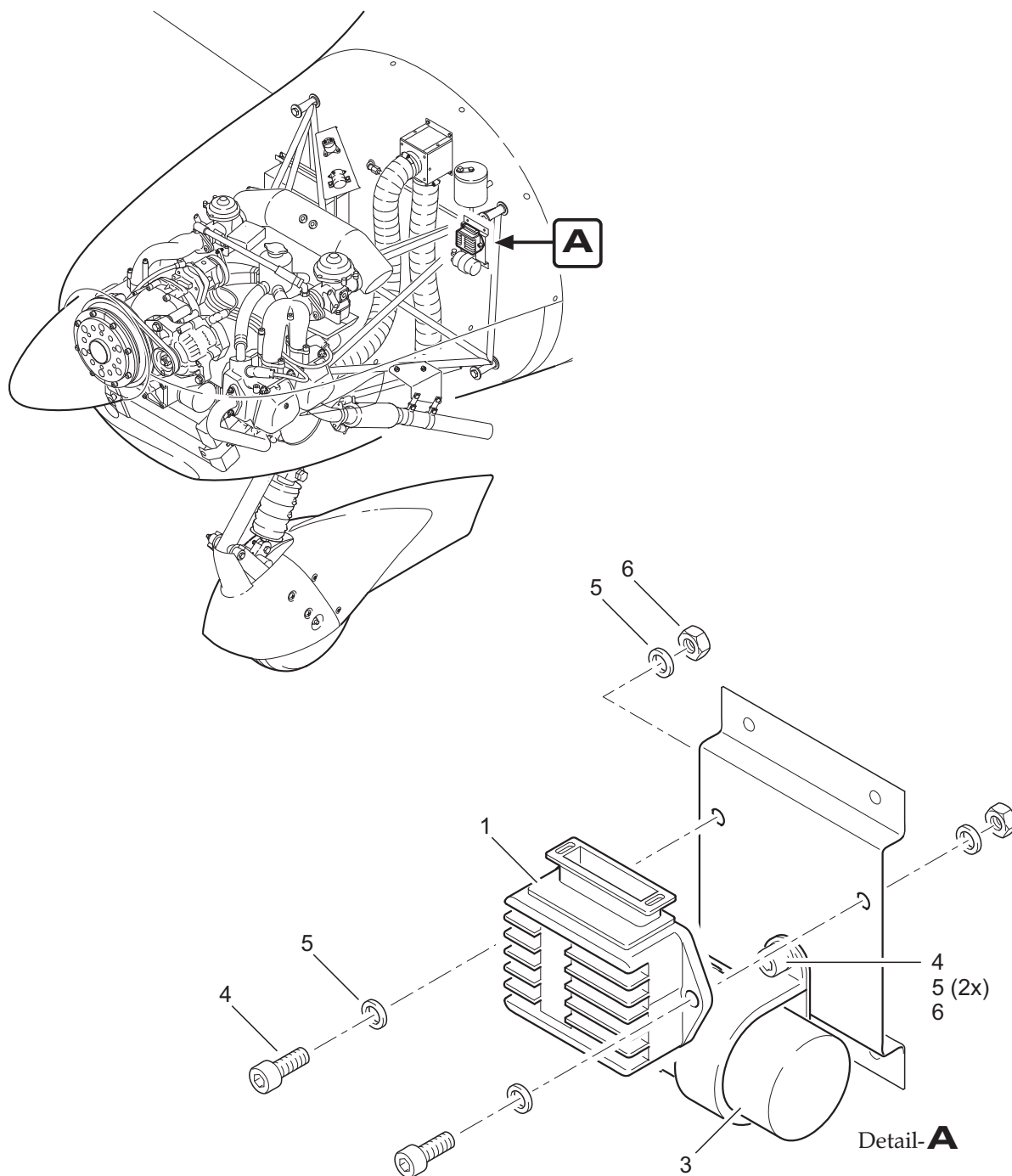
- Item not illustrated

External Alternator Installation
Figure 1

24-20-00

Page 3

31.05.24



EFFECTIVITY

Aircraft equipped
with Rotax 912S

Rectifier-Regulator Unit Installation
Figure 2A

24-20-00

Page 4A

31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Rectifier-Regulator Unit Installation (Night-VFR only)	Rotax 912S
1	1	AT01-7080-025	rectifier-regulator (Rotax P/N: 965349)	
2	1	AT01-4540-100	mounting bracket	
3	1	AT01-7080-435	capacitor kit (Rotax P/N: 966590 / incl. clamp)	
4	3	1800912_M8x20	bolt (ISO 4762 M8x20 8.8)	
5	6	AT01-4540-101	Nordlock washer	
6	3	1800934_M8	nut (ISO 4032 M8)	
-7	4	1807337_3,2x6 ES/ES	rivet (ISO 15984 3,2x6 A2/A2)	

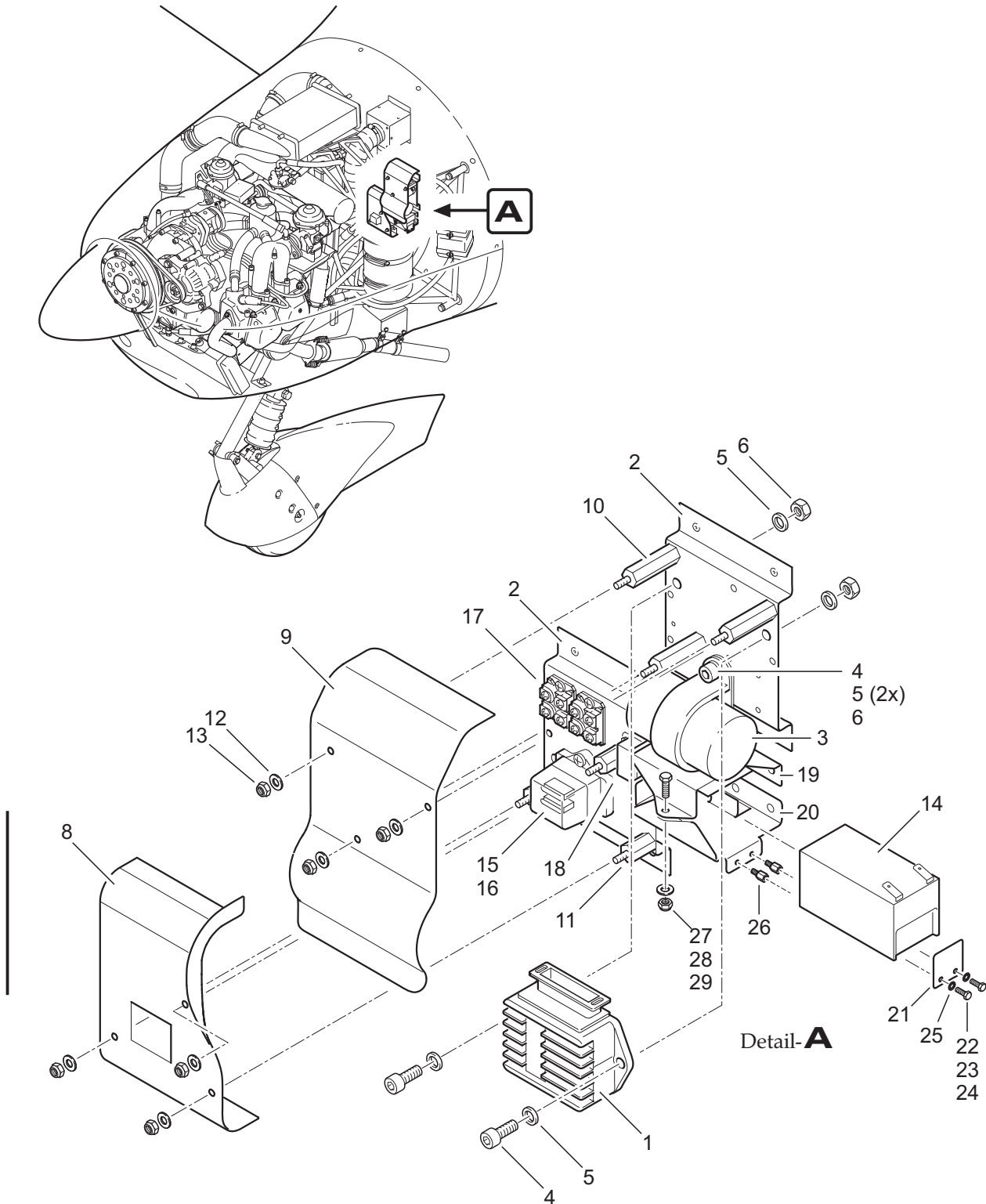
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Rectifier-Regulator Unit Installation
Figure 2A

24-20-00

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31.05.24



EFFECTIVITY

Aircraft equipped
with Rotax 914F

Rectifier-Regulator Unit Installation
Figure 2B

24-20-00

Page 4B

31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Rectifier-Regulator Unit Installation	Rotax 914F
1	1	AT01-7080-025	rectifier-regulator (Rotax P/N: 965349)	
2	2	AT01-4540-100	mounting bracket	
3	1	AT01-7080-435	capacitor kit (Rotax P/N: 966590 / incl. clamp)	
4	3	1800912_M8x20	bolt (ISO 4762 M8x20 8.8)	
5	6	AT01-4540-101	Nordlock washer	
6	3	1800934_M8	nut (ISO 4032 M8)	
-7	8	1807337_3,2x6 ES/ES	rivet (ISO 15984 3,2x6 A2/A2)	
8	1	AT01-7000-180	cover 1	
9	1	AT01-7000-181	cover 2	
10	3	AT01-4530-991	spacer	
11	3	AT01-4530-990	spacer	
12	6	1800125_5,3	washer (ISO 7089 5,3x10)	
13	6	1800985_M5	locknut (ISO 10511 M5)	
14	1	AT01-8210-132	BAT 2 battery (replaced by AT01-8210-133)	367 - 385 / 1)
		AT01-8210-133	BAT 2 battery	386 - 999 / 1)
15	1	AT01-4530-255	fuse holder	
16	2	AT01-4530-412	fuse 10A	
17	2	AT01-4530-708	Schottky diode	
18	1	AT01-4530-694	resistor	
19	1	AT01-8210-145	upper battery mounting bracket	
20	1	AT01-8210-144	lower battery mounting bracket	
21	1	AT01-8210-146	battery locking plate	
22	2	1800933_M3x10	bolt (ISO 4017 M3x10 8.8)	367 - 385 / 1)
		1800933_M3x5	bolt (ISO 4017 M3x5 8.8)	386 - 999 / 1)
-23	2	1800125_3,2	washer (ISO 7089 3,2x7)	
-24	2	1800985_M3	locknut (ISO 10511 M3)	
25	2	1806797_VZ/ I 3,2	tooth lock washer (DIN 6797 d3,2)	386 - 999 / 1)
26	2	AT01-4530-994	spacer	386 - 999 / 1)
27	1	1800933_M4x12	bolt (ISO 4017 M4x12 8.8)	
28	1	1800125_4,3	washer (ISO 7089 4,3x9)	
29	1	1800985_M4	locknut (ISO 10511 M4)	

1) The emergency excitation battery AT01-8210-132 is no longer available.
Refer to SI-AT01-018 (annex 26) for retrofitting the new battery.

- Item not illustrated

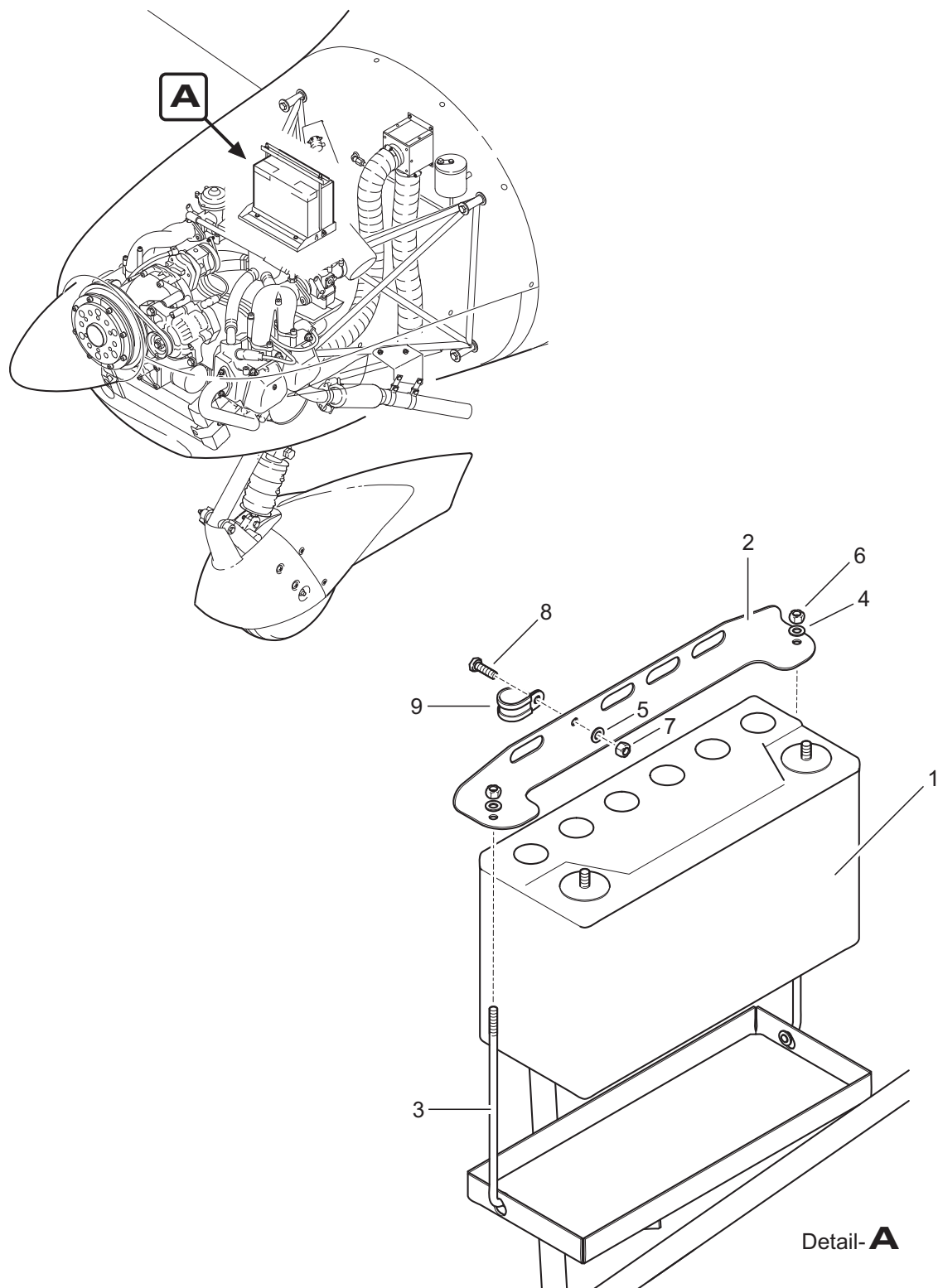
Rectifier-Regulator Unit Installation
Figure 2B

24-20-00

Page 5B

31.05.24

BATTERY SYSTEM



Main Battery Installation
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Main Battery Installation	
1	1	AT01-8210-128	battery Exide Sprinter P12V600	Rotax 912S
		AT01-8210-129	battery Hawker Odyssey PC950	Rotax 912iS/914F
2	1	AT01-7010-114	battery bracket	Rotax 912S
		AT01-7010-144	battery bracket (replaced by AT01-7010-147)	Rotax 914F
		AT01-7010-147	battery bracket	Rotax 912iS/914F
3	2	AT01-7010-113	battery bracket bolt	Rotax 912S
		AT01-7010-137	battery bracket bolt	Rotax 912iS/914F
4	2	1800125_5,3	washer (ISO 7089 5,3x10)	
5	1	1800125_5,3	washer (ISO 7089 5,3x10)	Rotax 912iS/914F
6	2	1800985_M5	locknut (ISO 10511 M5)	
7	1	1800985_M5	locknut (ISO 10511 M5)	Rotax 912iS/914F
8	1	1800933_M5x16	bolt (ISO 4017 M5x16 8.8)	Rotax 912iS/914F
9	1	AT01-4520_RSGU1.16/12W1	pipe clamp	Rotax 912iS/914F
-10	1	AT01-4540-130	battery pad (glued to engine mount)	Rotax 912S
		AT01-4540-152	battery pad (glued to engine mount)	Rotax 912iS/914F
-11	1	AT01-4540-134	battery pad (glued to bracket AT01-7010-114)	Rotax 912S
		AT01-4540-153	battery pad (glued to bracket AT01-7010-144)	Rotax 914F
		AT01-4540-157	battery pad (glued to bracket AT01-7010-147)	Rotax 912iS/914F

- Item not illustrated

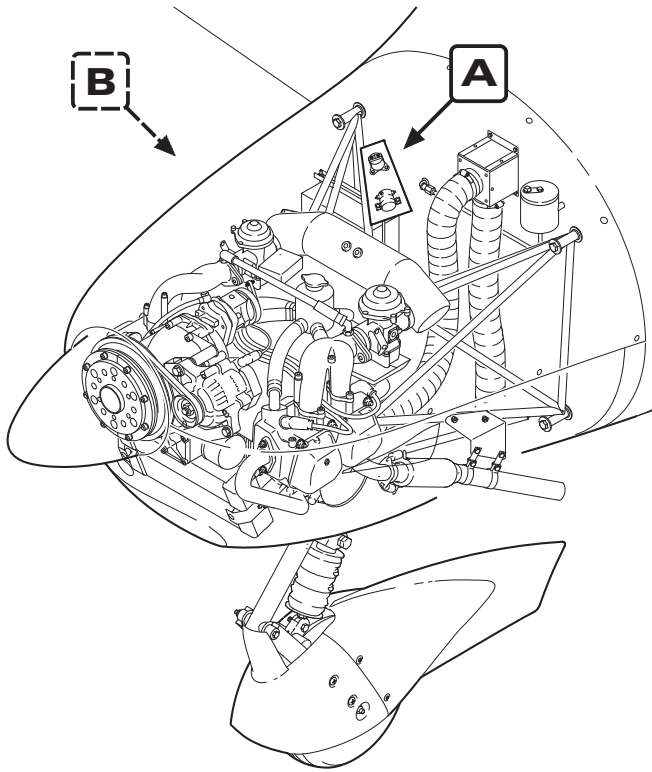
Main Battery Installation
Figure 1

24-30-00

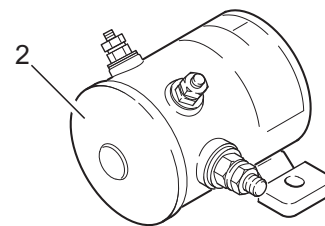
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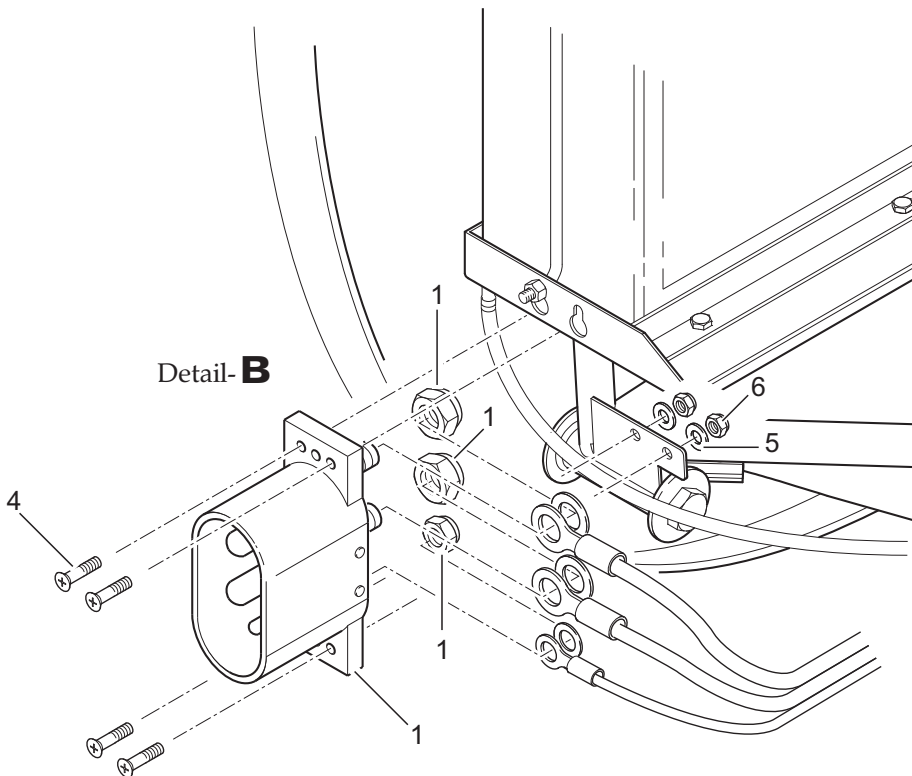
EXTERNAL POWER



Detail-**A**



Detail-**B**



EFFECTIVITY

Aircraft equipped
with an external
power receptacle

External Power Components
Figure 1

24-40-00

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			External Power Components	Ext. power
1	1	AT01-8220-120	external power receptacle	
2	1	AT01-8220-123	external power relay	
-3	1	AT01-4530-624	relay (installed in instrument panel)	
4	4	1800933_M5x25	bolt (ISO 4017 M5x25 8.8)	
5	4	1800125_5,3	washer (ISO 7089 5,3x10)	
6	4	1800985_M5	locknut (ISO 10511 M5)	

- Item not illustrated

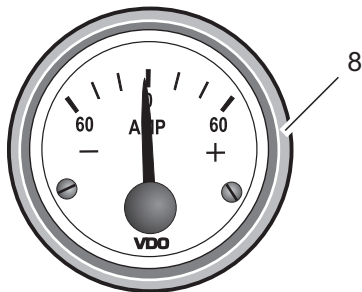
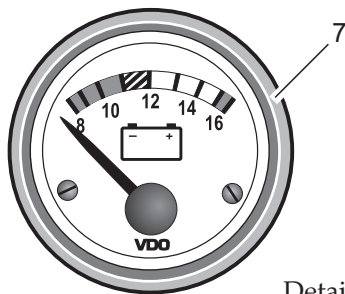
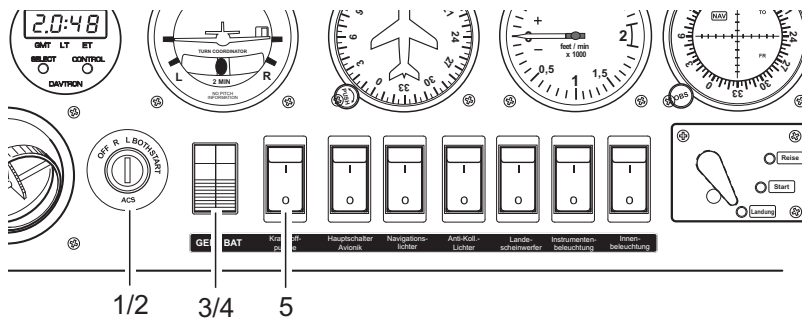
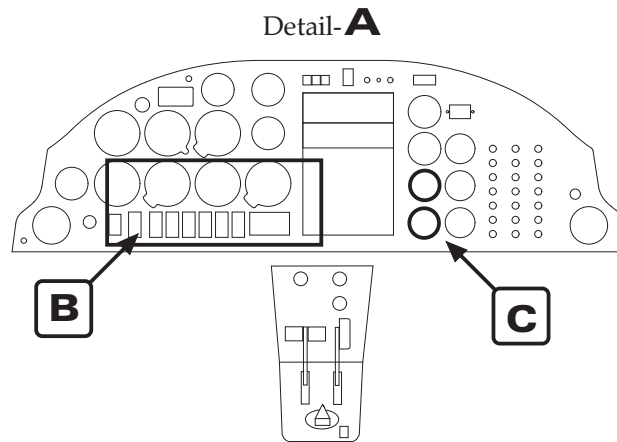
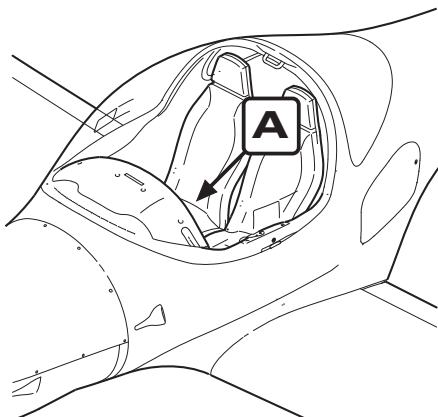
External Power Components
Figure 1

24-60-00

Page 3

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**ELECTRICAL LOAD
DISTRIBUTION**



SAMPLE VIEW

Electrical Components - Instrument Panel
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Electrical Components - Instrument Panel	
1	1	AT01-8250-105	ignition lock	Rotax 912S/914F
	1	AT01-8250-130	ignition lock	Rotax 912iS
2	1	AT01-2820-260	adapter plate for ignition lock	Rotax 912S (404 - 999)
		AT01-2820-258	adapter plate for ignition lock	Rotax 912iS (404 - 999)
3	AR	AT01-8250-103	mount for master split switch	
4	AR	AT01-8250-104	split master switch	
5	AR	AT01-4530-403	fuse switch (3A)	
		AT01-4530-405	fuse switch (5A)	
		AT01-4530-408	fuse switch (8A)	
		AT01-4530-410	fuse switch (10A)	
		AT01-4530-420	fuse switch (20A)	
-6	AR	AT01-4530-404	fuse switch small (3A)	
		AT01-4530-406	fuse switch small (5A)	
		AT01-4530-409	fuse switch small (8A)	
		AT01-4530-411	fuse switch small (10A)	
		AT01-4530-421	fuse switch small (20A)	
7	1	AT01-2840-126	voltmeter	analog instr.
8	1	AT01-2840-121	ammeter	analog instr.
Mounting cut-out for fuse switch (item 5): 44,5 x 22mm				
Mounting cut-out for small fuse switch (item 6): 34 x 14,6mm				

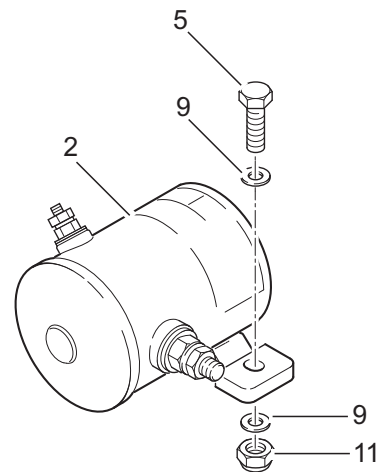
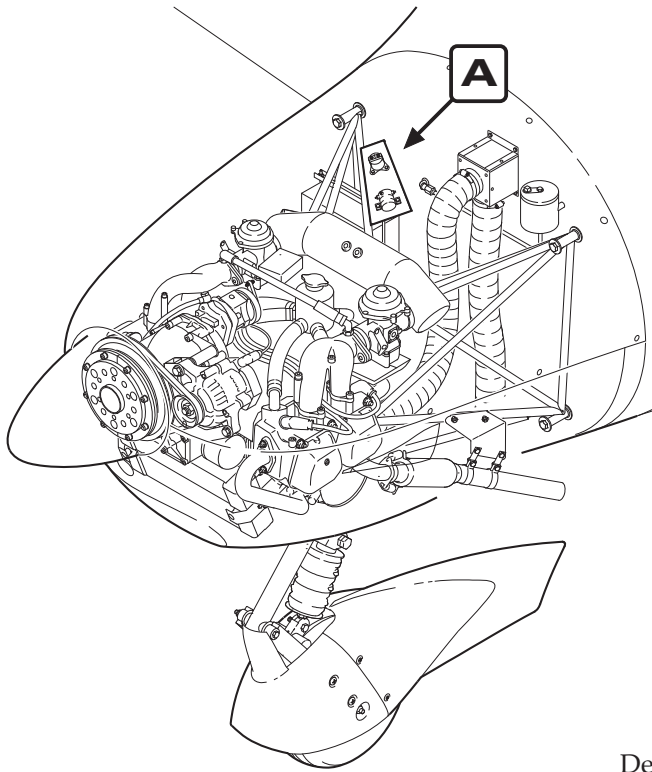
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Electrical Components - Instrument Panel
Figure 1

24-60-00

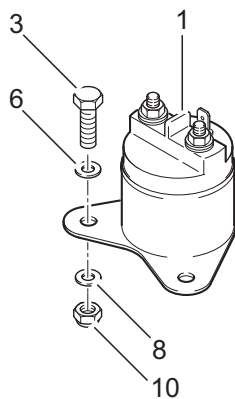
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Detail-**A**

Starter relay installation
on aircraft equipped with
Rotax 912S / 914F



Starter relay installation
on aircraft equipped with
Rotax 912iS

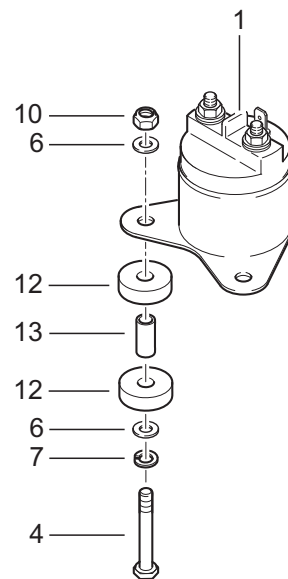


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			Electrical Components - Engine Compartment	
1	1	AT01-7080-107	starter relay	
2	1	AT01-4530-601	battery relay	
3	2	1800933_M5x18	bolt (ISO 4017 M5x18 8.8)	Rotax 912S/914F
4	2	1800931_M5x35	bolt (ISO 4014 M5x35 8.8)	Rotax 912iS
5	2	1800933_M6x30	bolt (ISO 4017 M6x30 8.8)	
		1800933_M6x35	bolt (ISO 4017 M6x35 8.8)	ext. power
6	2/4	1800125_5,3	washer (ISO 7089 5,3x10)	
7	2	1800128_5,1	spring lock washer (DIN 128 d5,1)	Rotax 912iS
8	2	1806797_5,3	tooth lock washer (DIN 6797 d5,3)	Rotax 912S/914F
9	4	1809021_6,4	washer (ISO 7093 6,4x18)	
10	2	1800985_M5	locknut (ISO 10511 M5)	
11	2	1800985_M6	locknut (ISO 10511 M6)	
12	4	AT01-2820-142	insulating washer	Rotax 912iS
13	AR	AT01-4530-908	heat shrink tubing (through both insulating washers and engine mount)	Rotax 912iS

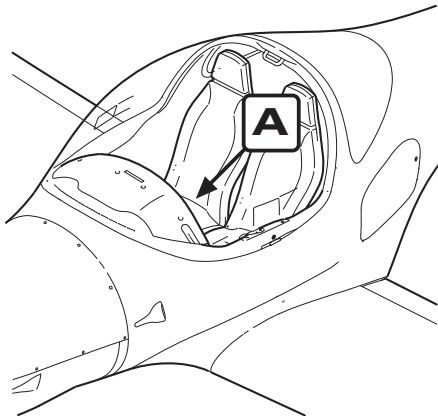
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Electrical Components - Engine Compartment
Figure 2

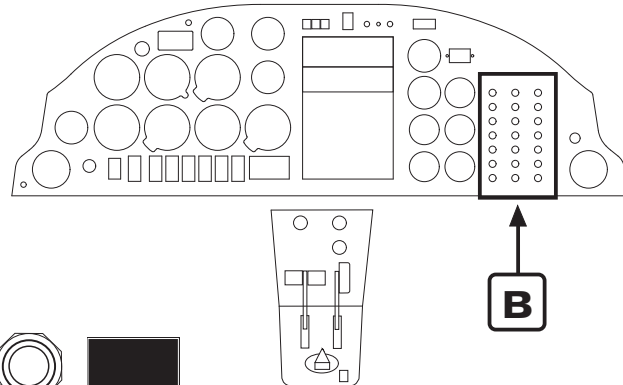
24-60-00

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Detail-**A**



	COM/NAV 2		CDI		
	COM/NAV 1		Überzieh- warnung		Kontroll- leuchten
	Intercom		OAT/CHT		Lade- kontroll- leuchte
	Wende- zeiger		Kraftstoff- vorrat		Lüfter Avionik
	Höhen- Kodierer		Instru- mente 1		Trimm- steuerung
	Künstl. Horizont		Instru- mente 2		Klappen- anzeige
	Kurskreisel		12V Steckdose		Starter- relais
	GPS		Batterie		Klappen- Motor
	Trans- ponder		Generator		Trimm- motor

1

Detail-**B**
SAMPLE VIEW

Circuit Breaker Panel
Figure 3

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3			Circuit Breaker Panel	
1	AR	AT01-4530-302	circuit breaker (2A)	
		AT01-4530-303	circuit breaker (3A)	
		AT01-4530-304	circuit breaker (4A)	
		AT01-4530-305	circuit breaker (5A)	
		AT01-4530-307	circuit breaker (7,5A)	
		AT01-4530-310	circuit breaker (10A)	
		AT01-4530-320	circuit breaker (20A)	
		AT01-4530-325	circuit breaker (25A)	
		AT01-4530-331	circuit breaker (30A)	
		AT01-4530-350	circuit breaker (50A)	

- Item not illustrated

Circuit Breaker Panel
Figure 3

24-60-00

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AQUILA AT01
ILLUSTRATED PARTS CATALOG

CHAPTER 25
EQUIPMENT & FURNISHINGS

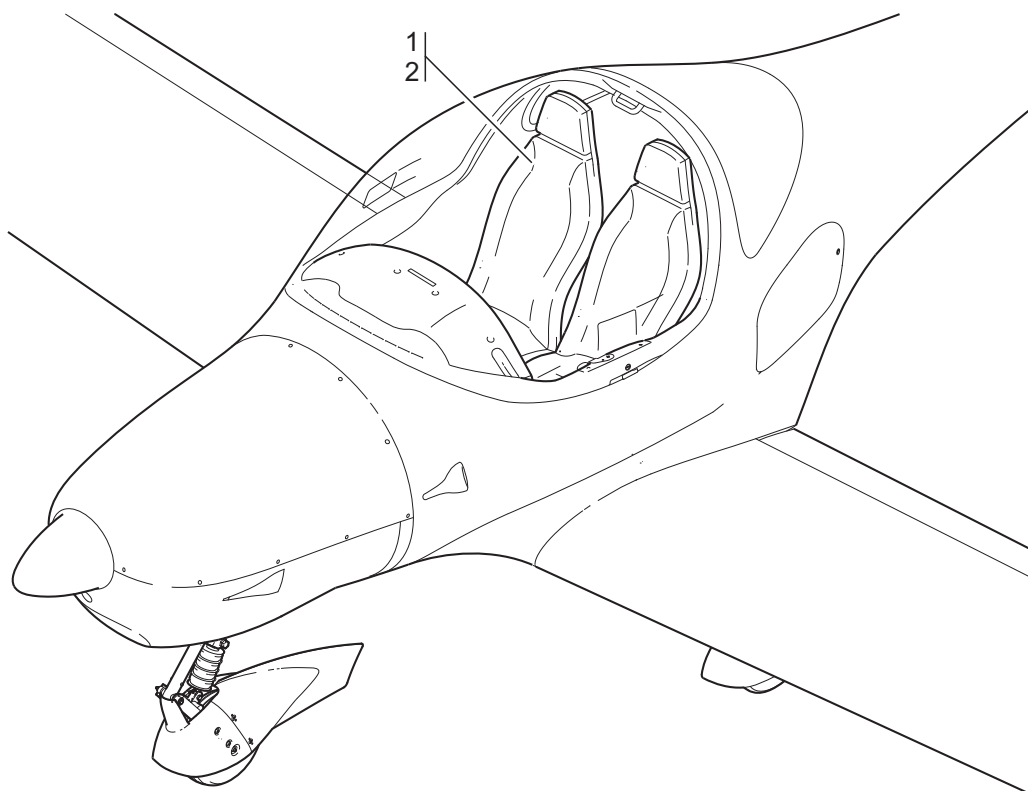
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Restraint System	25-10-00	4	



AQUILA AT01
ILLUSTRATED PARTS CATALOG

EQUIPMENT & FURNISHINGS
GENERAL





AQUILA AT01

ILLUSTRATED PARTS CATALOG

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Equipment & Furnishings - General	
	1		Seats (refer to 25-10-00, figure 1 for details)	
	2		Restraint System (refer to 25-10-00, figure 2 for details)	

- Item not illustrated

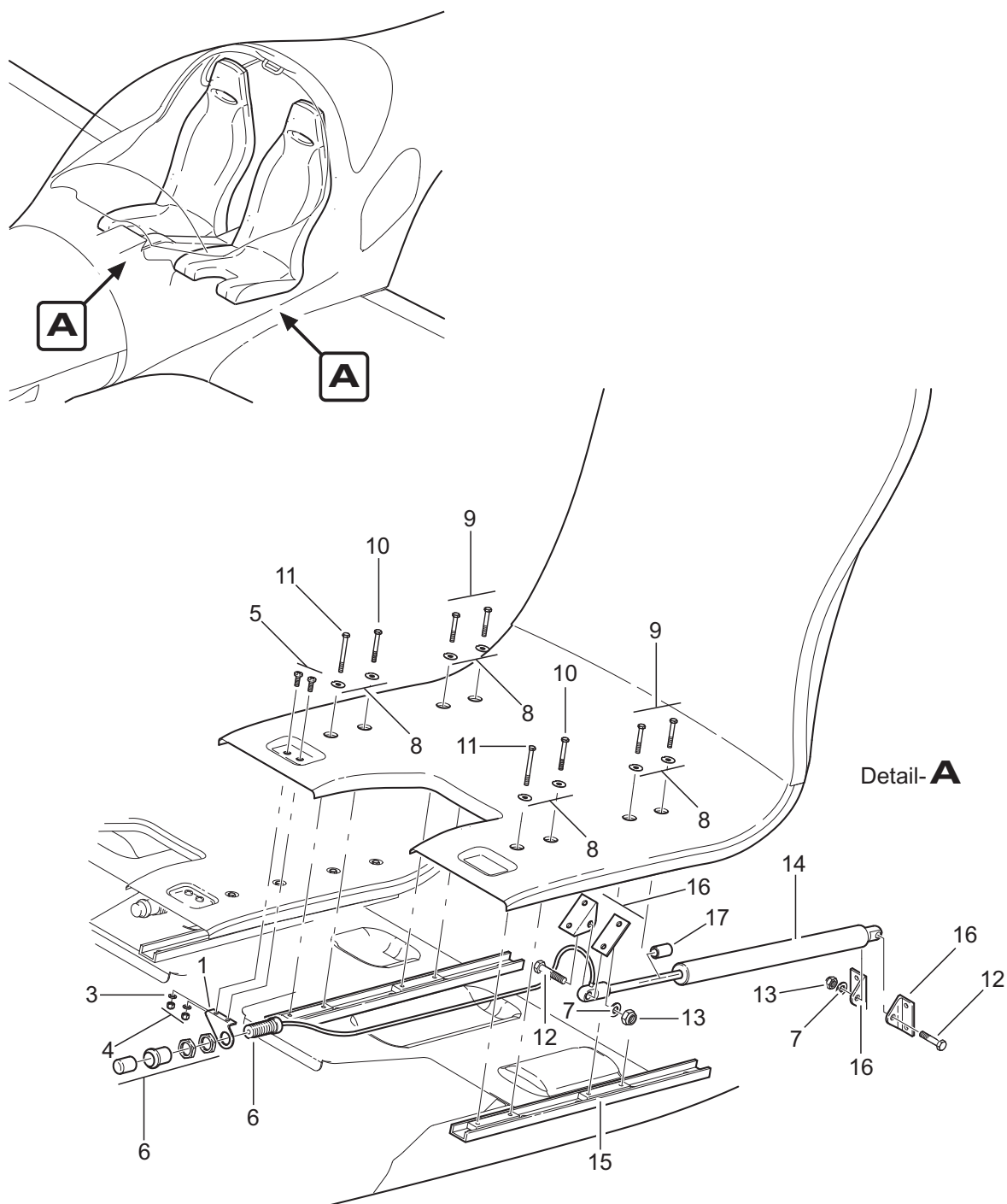
Equipment & Furnishings - General
Figure 1

25-00-00

Page 3

31.05.24

SEATS



Seats
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Seats	
1	1	AT01-2150-117	bearing angle	
2	-	-	-	
3	2	1800125_5,3	washer (ISO 7089 5,3x10)	
4	2	1800985_M5	locknut (ISO 10511 M5)	
5	2	1807991_M5x20	bolt (ISO 10642 M5x20 8.8)	
6	1	AT01-2150-162	hydraulic release system	
	2	1800936_M16x1,5	nut (ISO 8675 M16, included in AT01-2150-162)	
	1	AT01-9610-162	adjusting button (included in AT01-2150-162)	
7	2	1800125_8,4	washer (ISO 7089 8,4x16)	
8	8	1809021_5,3	washer (ISO 7093 5,3x15)	
9	4	1800931_M5x35	bolt (ISO 4014 M5x35 8.8)	
10	2	1800931_M5x40	bolt (ISO 4014 M5x40 8.8)	
11	2	1800931_M5x45	bolt (ISO 4014 M5x45 8.8)	
12	2	1809037_08032	bolt (LN 9037 M8x32)	
13	2	1800985_M8	locknut (ISO 10511 M8)	
14	1	AT01-2150-007	gas-filled strut	
15	2	AT01-2150-103	seat rail	
16	4	AT01-4510-128	bearing angle	
17	1	AT01-2150-179	spacer sleeve (optional)	

Installation of bearing angles AT01-4510-128 to airframe:

-18	4	1800933_M6x25	bolt (ISO 4017 M6x25 8.8)
-19	4	1809021_6,4	washer (ISO 7093 6,4x18)
-20	4	1800985_M6	locknut (ISO 10511 M6)

Installation of bearing angles AT01-4510-128 to seat:

-21	4	1800933_M6x25	bolt (ISO 4017 M6x25 8.8)
-22	4	1809021_6,4	washer (ISO 7093 6,4x18)
-23	4	1800125_6,4	washer (ISO 7089 6,4x12)
-24	4	1800985_M6	locknut (ISO 10511 M6)

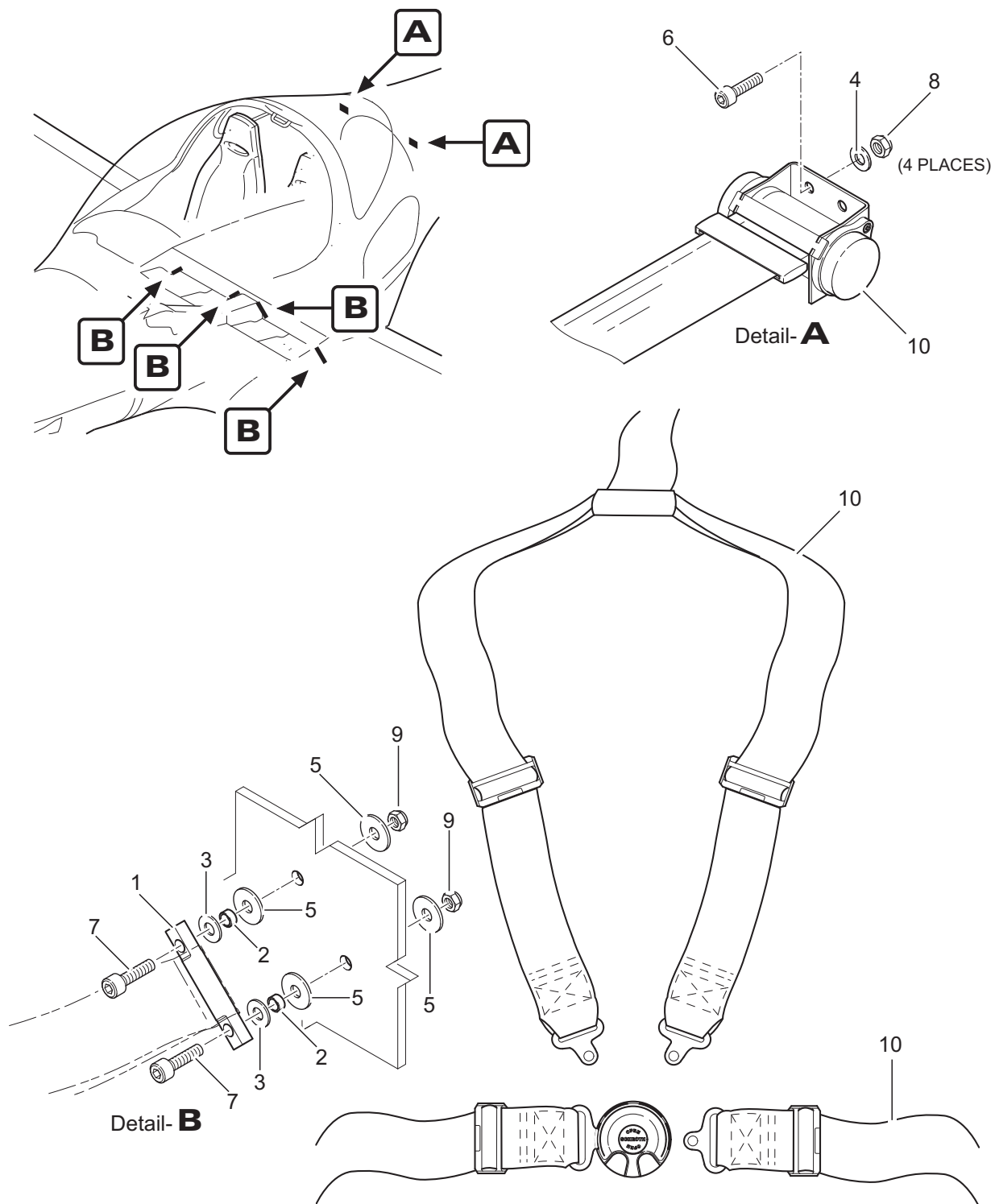
- Item not illustrated

Seats
Figure 1

25-10-00

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Restraint System
Figure 2

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			Restraint System	
1	4	AT01-2150-110	seat belt hoop	
2	8	AT01-4510-110	spacer sleeve	
3	8	1800125_8,4	washer (ISO 7089 8,4x16)	
4	8	1800440_5,5	washer (ISO 7094 5,5x18)	
5	16	1809021_8,4	washer (ISO 7093 8,4x24)	
6	8	1800912_M5x25	bolt (ISO 4762 M5x25 8.8)	
7	8	1800912_M8x50	bolt (ISO 4762 M8x50 8.8)	
8	8	1800985_M5	locknut (ISO 10511 M5)	
9	8	1800985_M8	locknut (ISO 10511 M8)	
10	1	AT01-2150-130	seat belt LH	
-11	1	AT01-2150-131	seat belt RH	

- Item not illustrated

Restraint System
Figure 2

25-10-00

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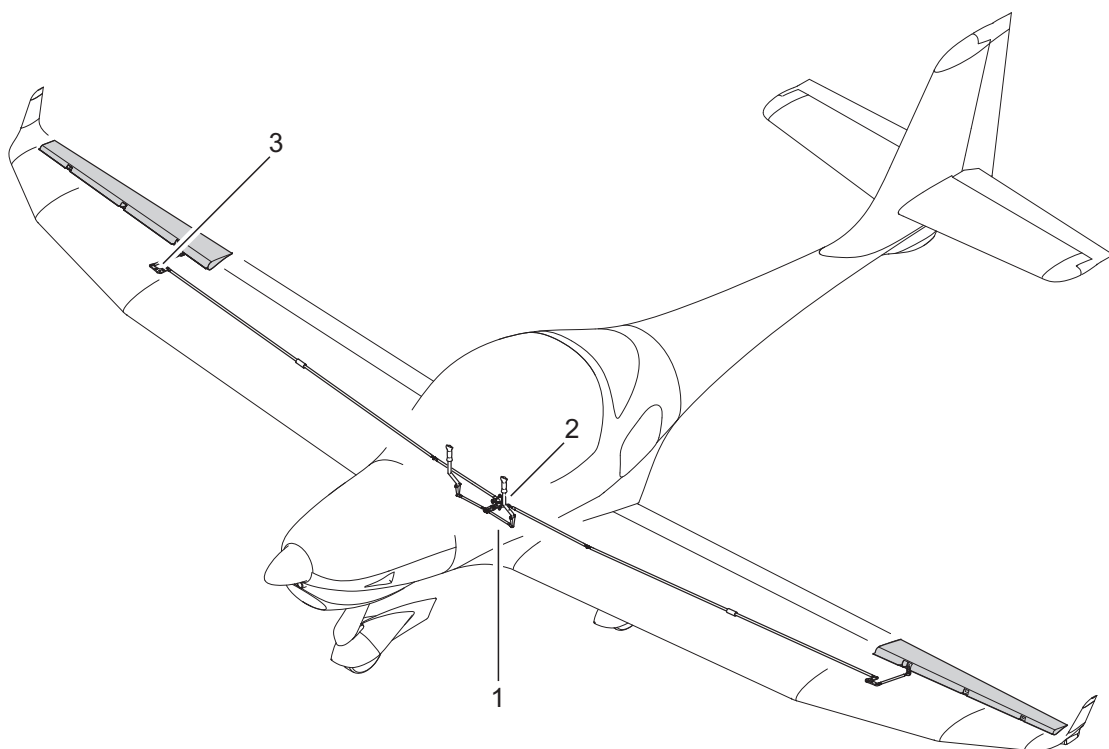
AQUILA AT01
ILLUSTRATED PARTS CATALOG

CHAPTER 27
FLIGHT CONTROLS

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AILERON AND TAB



Aileron and Tab - General
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Aileron and Tab - General	
	1		Aileron Control System - Cockpit (refer to 27-10-00, figure 2 for details)	
	2		Aileron Control System - Fuselage (refer to 27-10-00, figure 3 for details)	
	3		Aileron Control System - Wings (refer to 27-10-00, figure 4 for details)	

- Item not illustrated

Aileron and Tab - General
Figure 1

27-10-00

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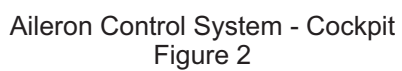


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			Aileron Control System - Cockpit	
- 1	2	AT01-6010-017	handle	
	2	AT01-8250-110	push button (included in AT01-6010-017)	
2	2	AT01-6010-024	wooden handle (optional)	
	2	AT01-8250-111	push button (included in AT01-6010-024)	
3	2	AT01-6010-025	control stick	
4	4	1800985_M6	locknut (ISO 10511 M6)	
5	10	1800125_6,4	washer (ISO 7089 6,4x12)	
6	2	1809037_06050	bolt (LN 9037 M6x50)	
7	8	1800125_5,3	washer (ISO 7089 5,3x10)	
8	2	1809037_05022	bolt (LN 9037 M5x22)	
9	2	1800985_M5	locknut (ISO 10511 M5)	
10	1	AT01-6010-021	pushrod LH	
- 11	1	AT01-6010-022	pushrod RH	
12	1	1809037_08032	bolt (LN 9037 M8x32)	
13	4	1800125_8,4	washer (ISO 7089 8,4x16)	
14	2	1800985_M8	locknut (ISO 10511 M8)	
15	1	AT01-6010-006	bellcrank	
16	1	AT01-1850-124	swivel head	
17	1	AT01-6010-121	spacer sleeve	
18	1	1809021_8,4	washer (ISO 7093 8,4x24)	
19	1	1809037_08048	bolt (LN 9037 M8x48)	
20	2	1809037_06028	bolt (LN 9037 M6x28)	
21	1	AT01-6010-022	pushrod	
22	1	AT01-1850-119	swivel head	
23	2	AT01-1850-120	swivel head	
24	3	1800936_M8	nut (ISO 4035 M8)	
25	3	1806797_8,4	tooth lock washer (DIN 6797 d8,4)	

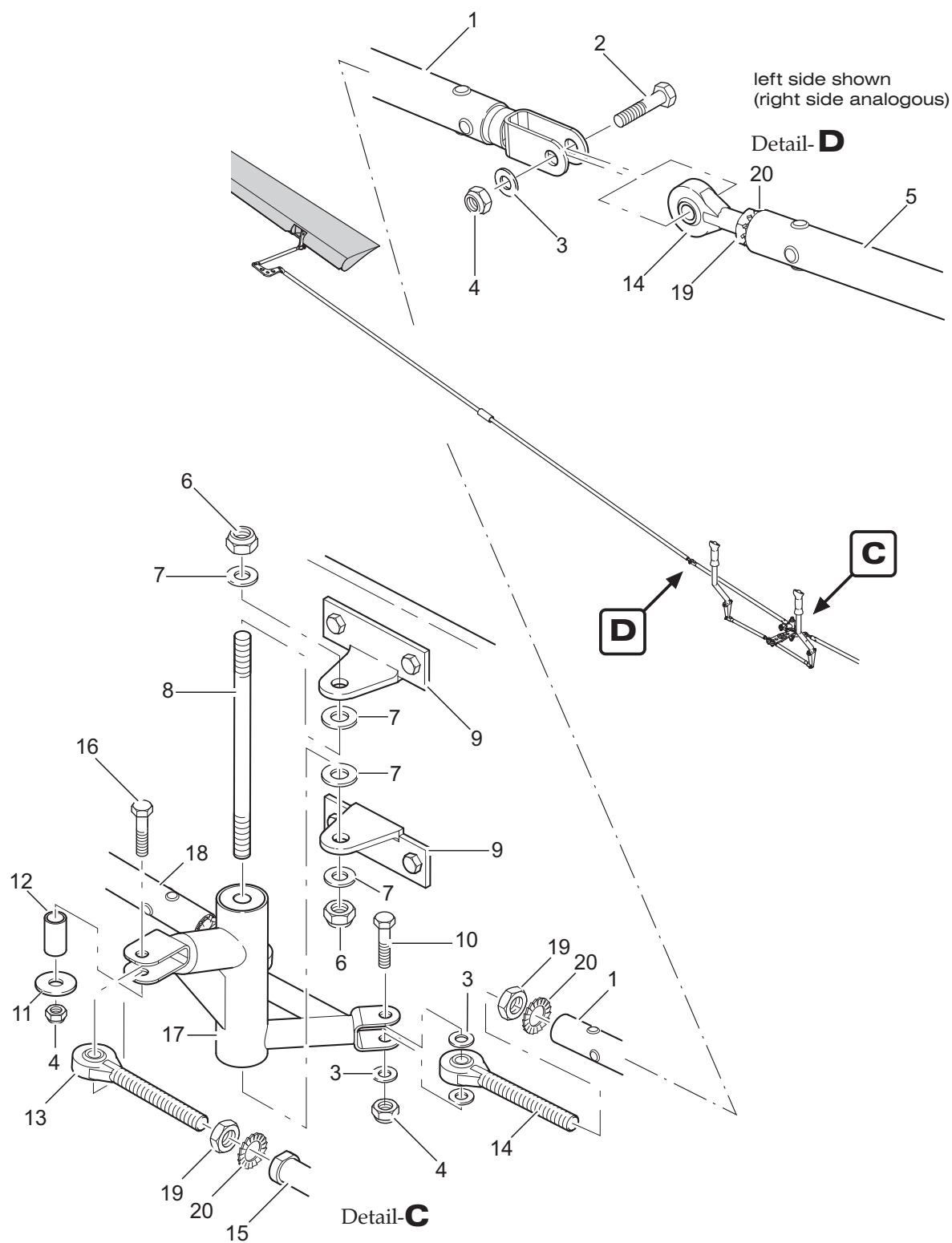
- Item not illustrated

Aileron Control System - Cockpit
Figure 2

27-10-00

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Aileron Control System - Fuselage
Figure 3

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3			Aileron Control System - Fuselage	
1	1	AT01-6010-016	pushrod LH	
2	2	1809037_06022	bolt (LN 9037 M6x22)	
3	4	1800125_6,4	washer (ISO 7089 6,4x12)	
4	4	1800985_M6	locknut (ISO 10511 M6)	
5	2	AT01-6010-026	pushrod	
6	2	1800985_M8	locknut (ISO 10511 M8)	
7	4	1800125_8,4	washer (ISO 7089 8,4x16)	
8	1	AT01-6010-117	threaded rod	
9	2	AT01-6010-105	bearing angle	
10	2	1809037_06026	bolt (LN 9037 M6x26)	
11	1	1809021_6,4	washer (ISO 7093 6,4x18)	
12	1	AT01-6010-120	bushing	
13	1	AT01-1850-119	swivel head	
14	4	AT01-1850-120	swivel head	
15	1	AT01-1850-124	swivel head	
16	1	1809037_06038	bolt (LN 9037 M6x38)	
17	1	AT01-6010-008	mixer shaft	
18	1	AT01-6010-018	pushrod RH	
19	5	1800936_M8	nut (ISO 4035 M8)	
20	5	1806797_8,4	tooth lock washer (DIN 6797 d8,4)	

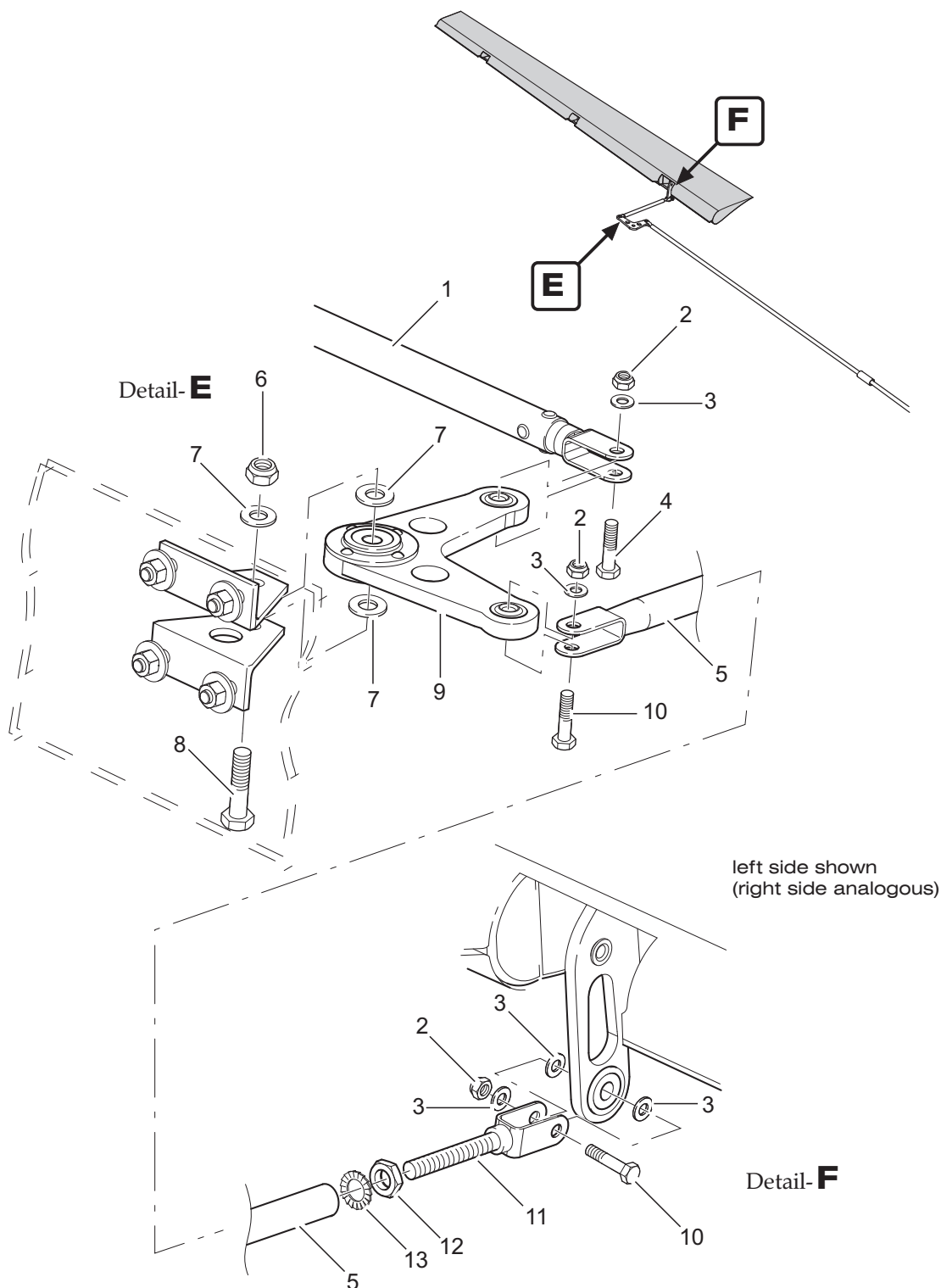
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Aileron Control System - Fuselage
Figure 3

27-10-00

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Aileron Control System - Wings
Figure 4

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
4			Aileron Control System - Wings	
1	2	AT01-6010-026	pushrod	
2	6	1800985_M6	locknut (ISO 10511 M6)	
3	10	1800125_6,4	washer (ISO 7089 6,4x12)	
4	2	1809037_06022	bolt (LN 9037 M6x22)	
5	2	AT01-6010-019	pushrod	
6	2	1800985_M8	locknut (ISO 10511 M8)	
7	6	1800125_8,4	washer (ISO 7089 8,4x16)	
8	2	1809037_08038	bolt (LN 9037 M8x38)	
9	2	AT01-6010-011	bellcrank	
10	4	1809037_06026	bolt (LN 9037 M6x26)	
11	2	AT01-6010-023	clevis	
12	2	1800936_M8	nut (ISO 4035 M8)	
13	2	1806797_8,4	tooth lock washer (DIN 6797 d8,4)	

- Item not illustrated

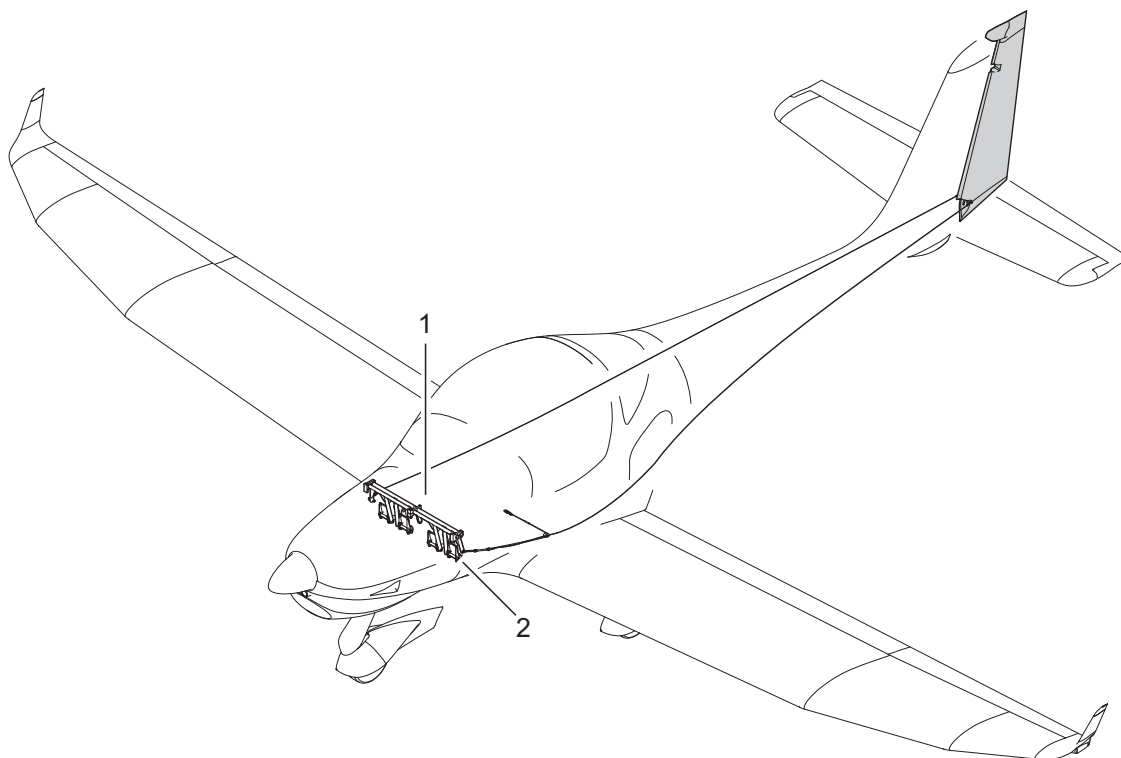
Aileron Control System - Wings
Figure 4

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RUDDER AND TAB



Rudder and Tab - General
Figure 1



AQUILA AT01

ILLUSTRATED PARTS CATALOG

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Rudder and Tab - General	
	1		Rudder Control System (refer to 27-20-00, figure 2 for details)	
	2		Rudder Pedal Installation (refer to 27-20-00, figure 3A for details)	Beringer
	3		Rudder Pedal Installation (refer to 27-20-00, figure 3B for details)	Cleveland
	4		Rudder Pedal Installation (refer to 27-20-00, figure 3C for details)	Matco

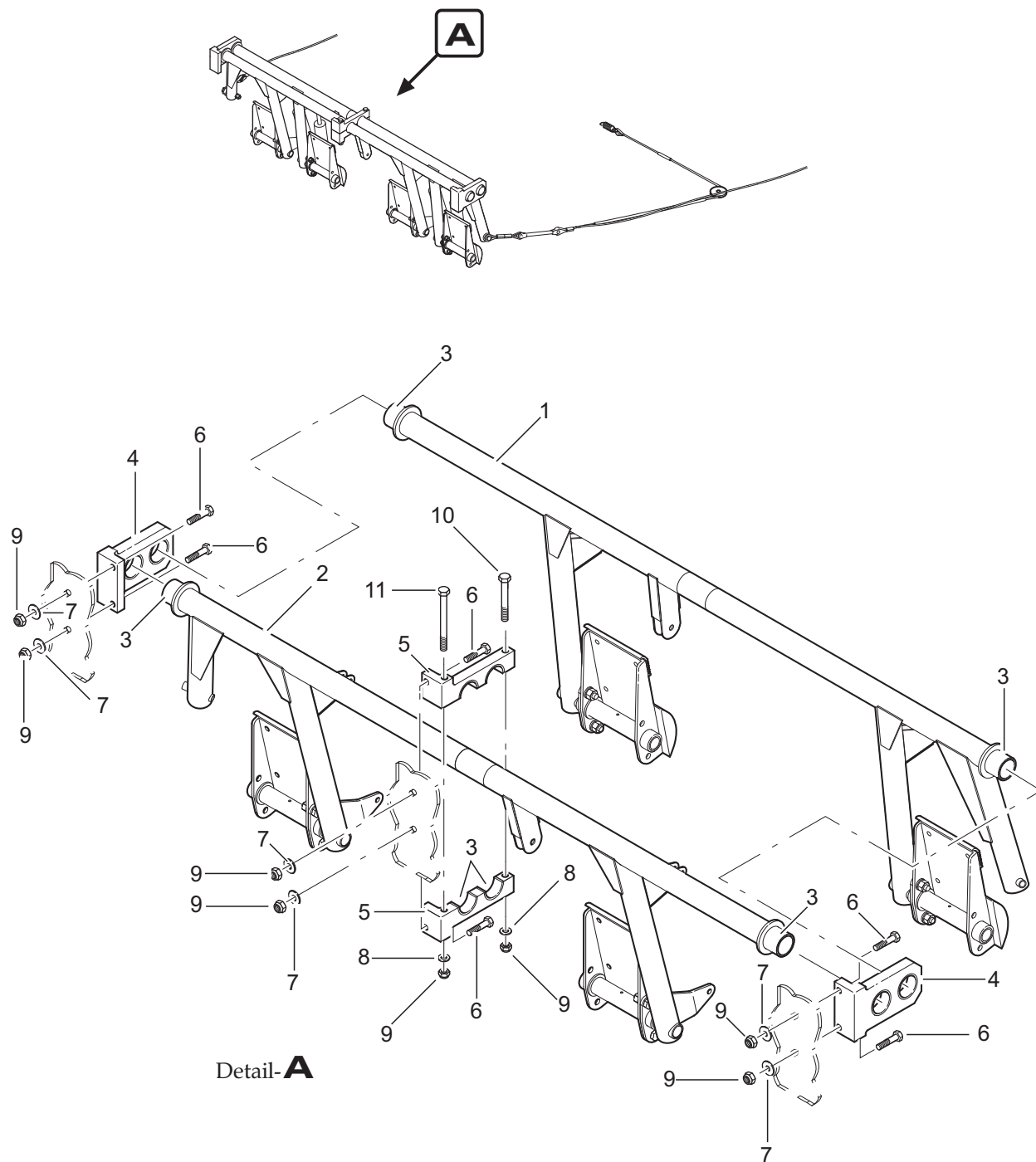
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Rudder and Tab - General
Figure 1

27-20-00

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Rudder Control System
Figure 2

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			Rudder Control System	
1	1	AT01-6040-002	rudder rotary shaft LH	
2	1	AT01-6040-003	rudder rotary shaft RH	
3	6	1850019	Permaglide bushing	
4	2	AT01-6040-101	outer bearing bracket	
5	1	AT01-6040-100	central bearing bracket	
6	6	1800931_M6x30	bolt (ISO 4014 M6x30 8.8)	
7	6	1809021_6,4	washer (ISO 7093 6,4x18)	
8	2	1800125_6,4	washer (ISO 7089 6,4x12)	
9	8	1800985_M6	locknut (ISO 10511 M6)	
10	1	1800931_M6x50	bolt (ISO 4014 M6x50 8.8)	
11	1	1800931_M6x70	bolt (ISO 4014 M6x70 8.8)	
-12	AR	AT01-1870-132	rudder control cable (ISO 2020 / 3,2mm)	
-13	AR	AT01-1870-133	Nicopress cable sleeve (for 3,0 - 3,5mm cable)	
-14	AR	AT01-1870-136	cable thimble (3,5mm groove width)	
-15	AR	AT01-6040-105	turnbuckle	

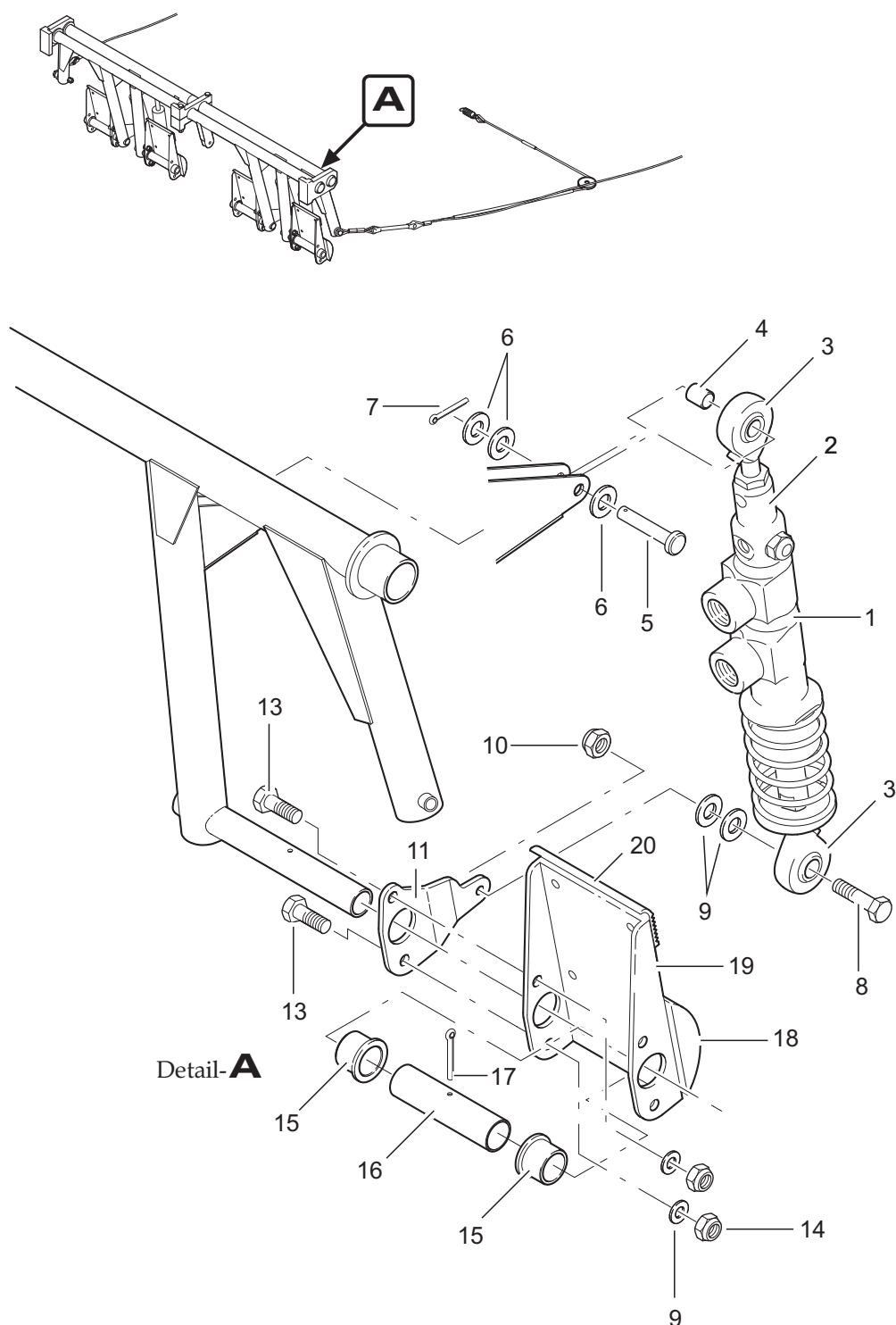
- Item not illustrated

Rudder Control System
Figure 2

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EFFECTIVITY

Aircraft equipped with
Beringer brake cylin-
ders

Rudder Pedal Installation
Figure 3A

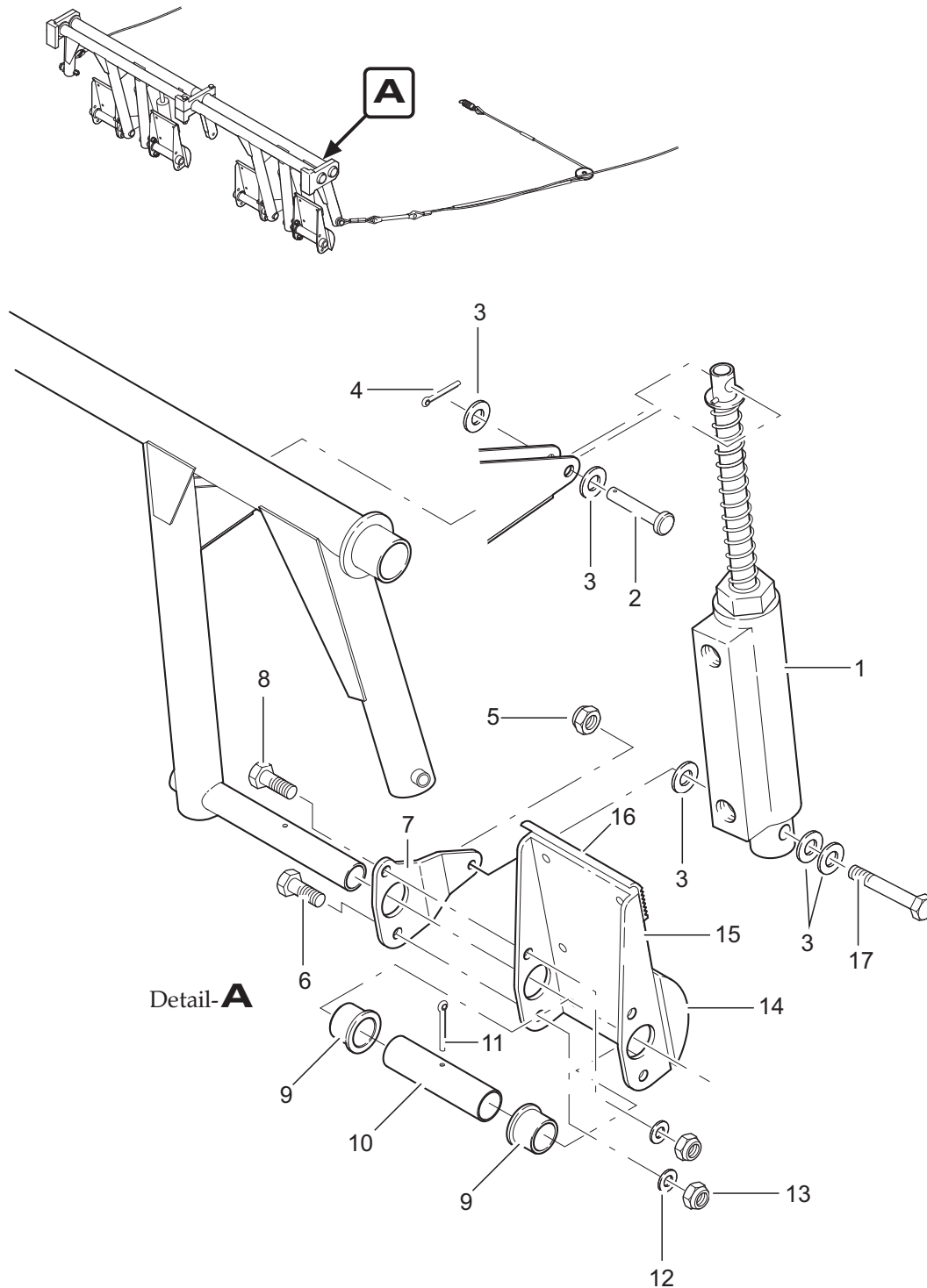
27-20-00

Page 6A

31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3A			Rudder Pedal Installation	Beringer
1	4	AT01-6040-145	brake master cylinder Beringer	
2	4	AT01-6040-146	extender	
3	8	AT01-6040-147	rod end	
4	4	AT01-1850-151	sleeve bearing	
5	4	1801434_5x18	bolt (DIN 1434 5x18)	
6	12	1800125_5,3	washer (ISO 7089 5,3x10)	
7	4	1800094_1,2x10	split pin (ISO 1234 1,2x10)	1)
		1800094_1,6x10	split pin (ISO 1234 1,6x10)	1)
8	4	1809037_06022	bolt (LN 9037 M6x22)	
9	16	1800125_6,4	washer (ISO 7089 6,4x12)	
10	4	1800980_M6	locknut (ISO 7042 M6)	
11	2	AT01-6040-136	pedal lever LH	
- 12	2	AT01-6040-137	pedal lever RH	
13	8	1800933_M6x16	bolt (ISO 4017 M6x16 8.8)	
14	8	1800985_M6	locknut (ISO 10511 M6)	
15	8	AT01-6040-104	bearing bush	
16	4	AT01-6040-103	spacer sleeve	
17	4	1800094_2,5x28	split pin (ISO 1234 2,5x28)	
18	4	AT01-6040-142	footplate rudder	
19	4	AT01-6040-132	pedal body	
20	4	AT01-6040-130	footplate brake	

1) Split pin depends on bolt hole diameter.



EFFECTIVITY

Aircraft equipped with
Cleveland brake cylinders

Rudder Pedal Installation
Figure 3B

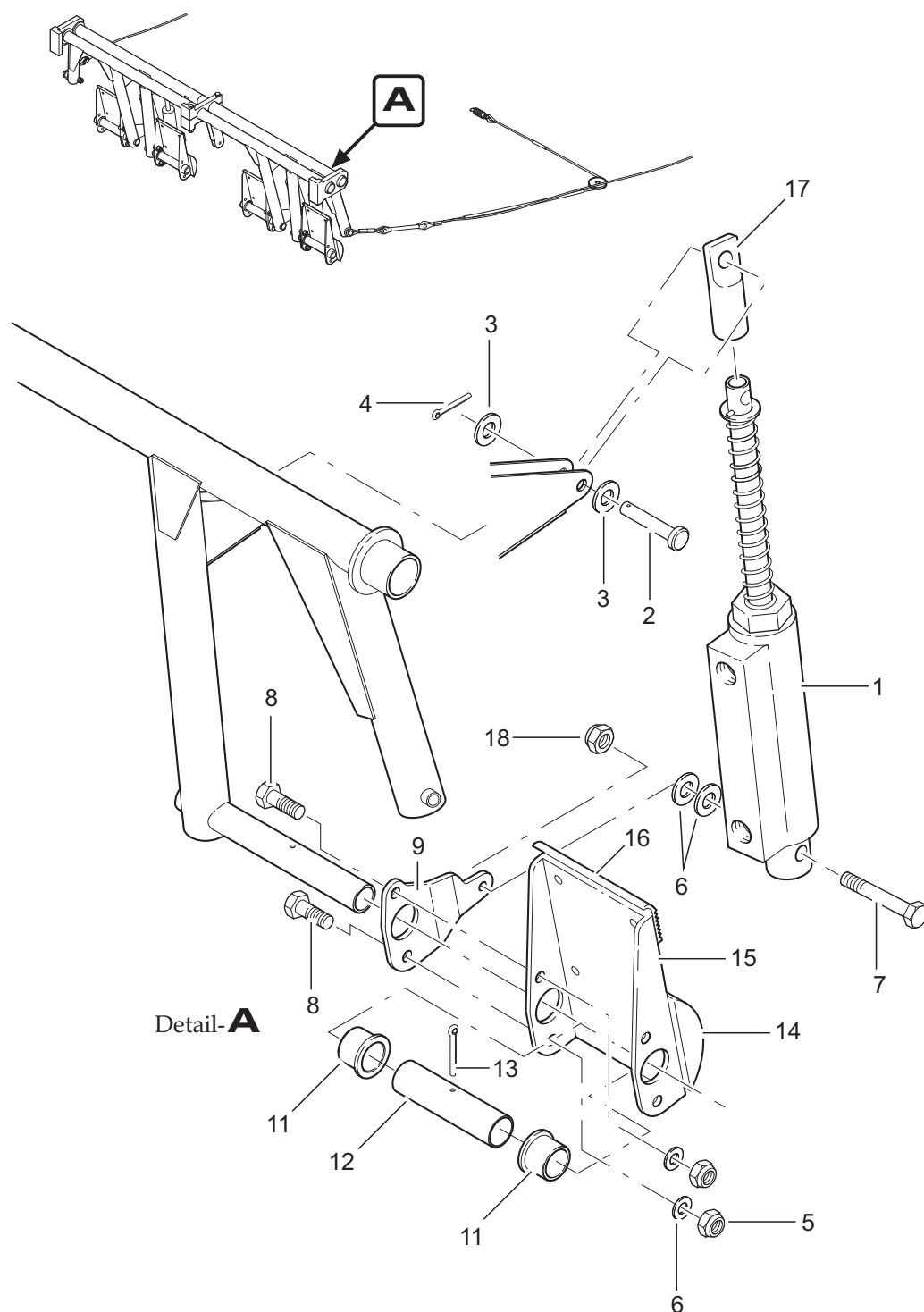
27-20-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3B			Rudder Pedal Installation	Cleveland
1	4	AT01-6040-106	brake master cylinder Cleveland	
2	4	1801434_5x18	bolt (DIN 1434 5x18)	
3	20	1800125_5,3	washer (ISO 7089 5,3x10)	
4	4	1800094_1,2x10	split pin (ISO 1234 1,2x10)	1)
		1800094_1,6x10	split pin (ISO 1234 1,6x10)	1)
5	4	1800980_M5	locknut (ISO 7042 M5)	
6	8	1800933_M6x16	bolt (ISO 4017 M6x16 8.8)	
7	2	AT01-6040-133	pedal lever LH	
- 8	2	AT01-6040-134	pedal lever RH	
9	8	AT01-6040-104	bearing bush	
10	4	AT01-6040-103	spacer sleeve	
11	4	1800094_2,5x28	split pin (ISO 1234 2,5x28)	
12	8	1800125_6,4	washer (ISO 7089 6,4x12)	
13	8	1800985_M6	locknut (ISO 10511 M6)	
14	4	AT01-6040-142	footplate rudder	
15	4	AT01-6040-132	pedal body	
16	4	AT01-6040-130	footplate brake	
17	4	1809037_05030	bolt (LN 9037 M5x30)	

1) Split pin depends on bolt hole diameter.



EFFECTIVITY

Aircraft equipped with
Matco brake cylinders

Rudder Pedal Installation
Figure 3C

27-20-00

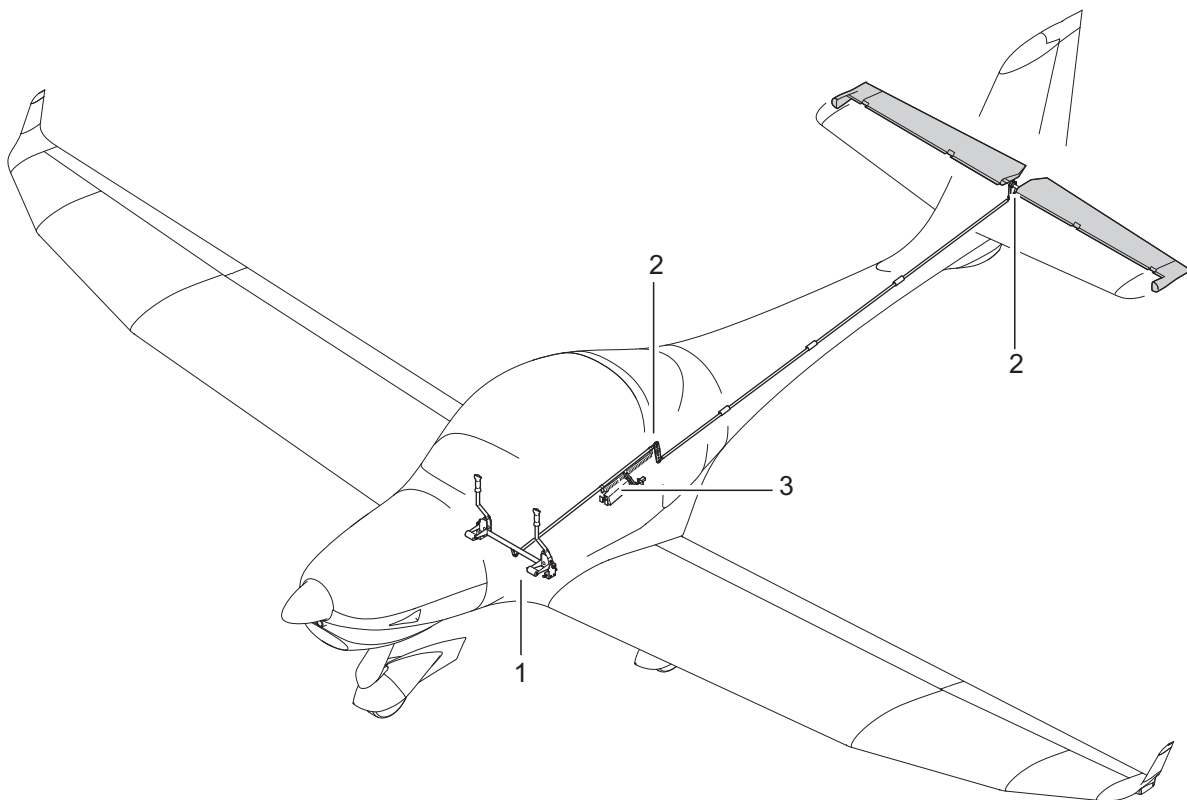
Page 6C

31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3C			Rudder Pedal Installation	Matco
1	4	AT01-6040-138	brake master cylinder Matco	
2	4	1801434_5x18	bolt (DIN 1434 5x18)	
3	8	1800125_5,3	washer (ISO 7089 5,3x10)	
4	4	1800094_1,2x10	split pin (ISO 1234 1,2x10)	1)
		1800094_1,6x10	split pin (ISO 1234 1,6x10)	1)
5	8	1800985_M6	locknut (ISO 10511 M6)	
6	16	1800125_6,4	washer (ISO 7089 6,4x12)	
7	4	1809037_M6x26	bolt (LN 9037 M6x26)	
8	8	1800933_M6x16	bolt (ISO 4017 M6x16 8.8)	
9	2	AT01-6040-136	pedal lever LH	
- 10	2	AT01-6040-137	pedal lever RH	
11	8	AT01-6040-104	bearing bush	
12	4	AT01-6040-103	spacer sleeve	
13	4	1800094_2,5x28	split pin (ISO 1234 2,5x28)	
14	4	AT01-6040-142	footplate rudder	
15	4	AT01-6040-132	pedal body	
16	4	AT01-6040-130	footplate brake	
17	4	AT01-6040-135	adapter	
18	4	1800980_M6	locknut (ISO 7042 M6)	

1) Split pin depends on bolt hole diameter.

ELEVATOR AND TAB



Elevator and Tab - General
Figure 1



AQUILA AT01

ILLUSTRATED PARTS CATALOG

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Elevator and Tab - General	
	1		Elevator Control System - Cockpit (refer to 27-30-00, figure 2 for details)	
	2		Elevator Control System - Fuselage (refer to 27-30-00, figure 3 for details)	
	-3		Elevator Trim System (refer to 27-31-00, figure 1A for details)	101 - 124
	3		Elevator Trim System (refer to 27-31-00, figure 1B for details)	125 - 999

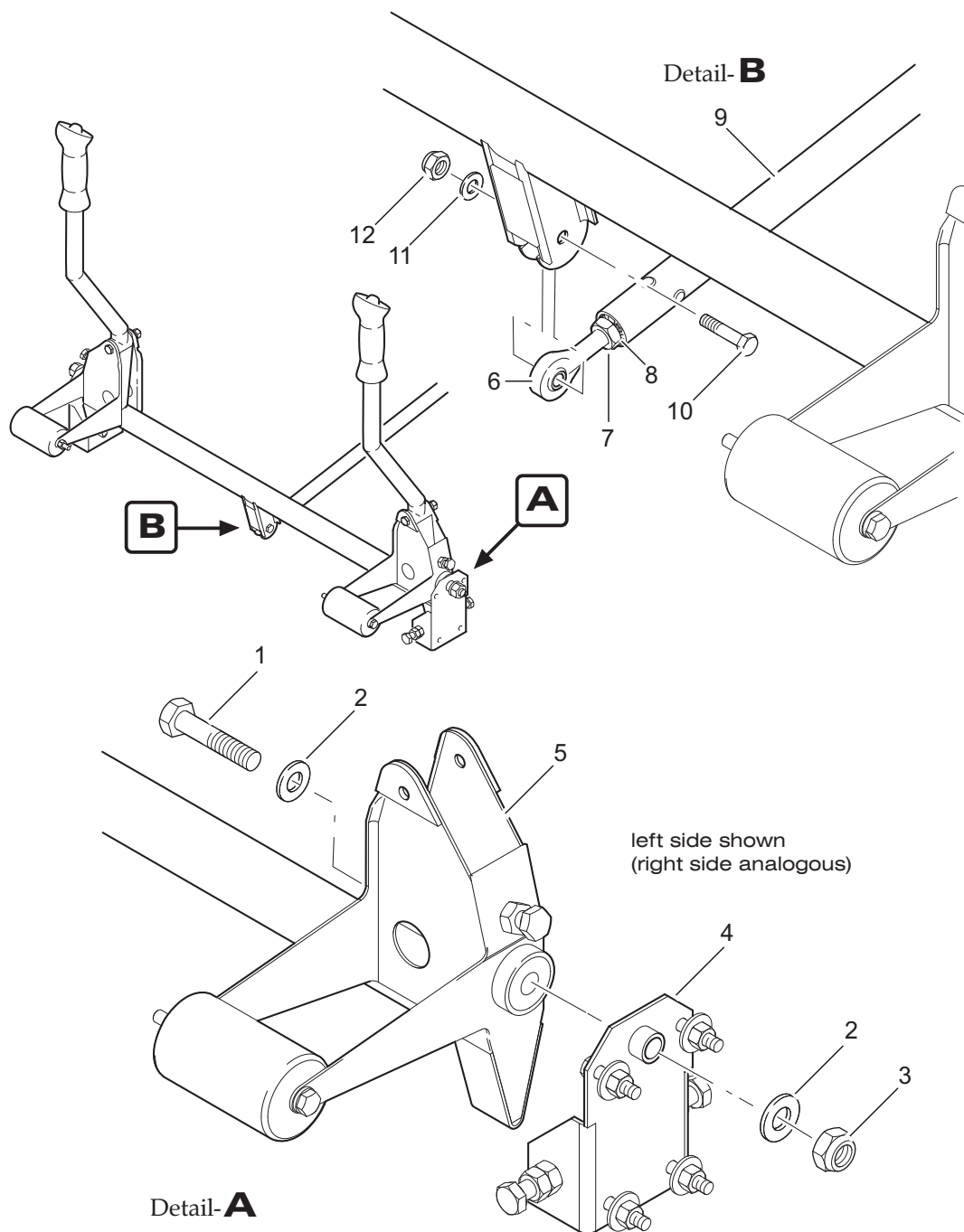
- Item not illustrated

Elevator and Tab - General
Figure 1

27-30-00

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31.05.24



Elevator Control System - Cockpit
Figure 2

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			Elevator Control System - Cockpit	
1	2	1809037_10040	bolt (LN 9037 M10x40)	
2	2	1800125_10,5	washer (ISO 7089 10,5x20)	
3	2	1800985_M10	locknut (ISO 10511 M10)	
4	2	AT01-6030-109	coupling shaft mounting	
5	2	AT01-6030-003	control stick coupling shaft	
6	4	AT01-1850-120	swivel head	
7	2	1800936_M8	nut (ISO 4035 M8)	
8	2	1806797_8,4	tooth lock washer (DIN 6797 d8,4)	
9	1	AT01-6030-011	pushrod	
10	1	1809037_06022	bolt (LN 9037 M6x22)	
11	1	1800125_6,4	washer (ISO 7089 6,4x12)	
12	1	1800985_M6	locknut (ISO 10511 M6)	

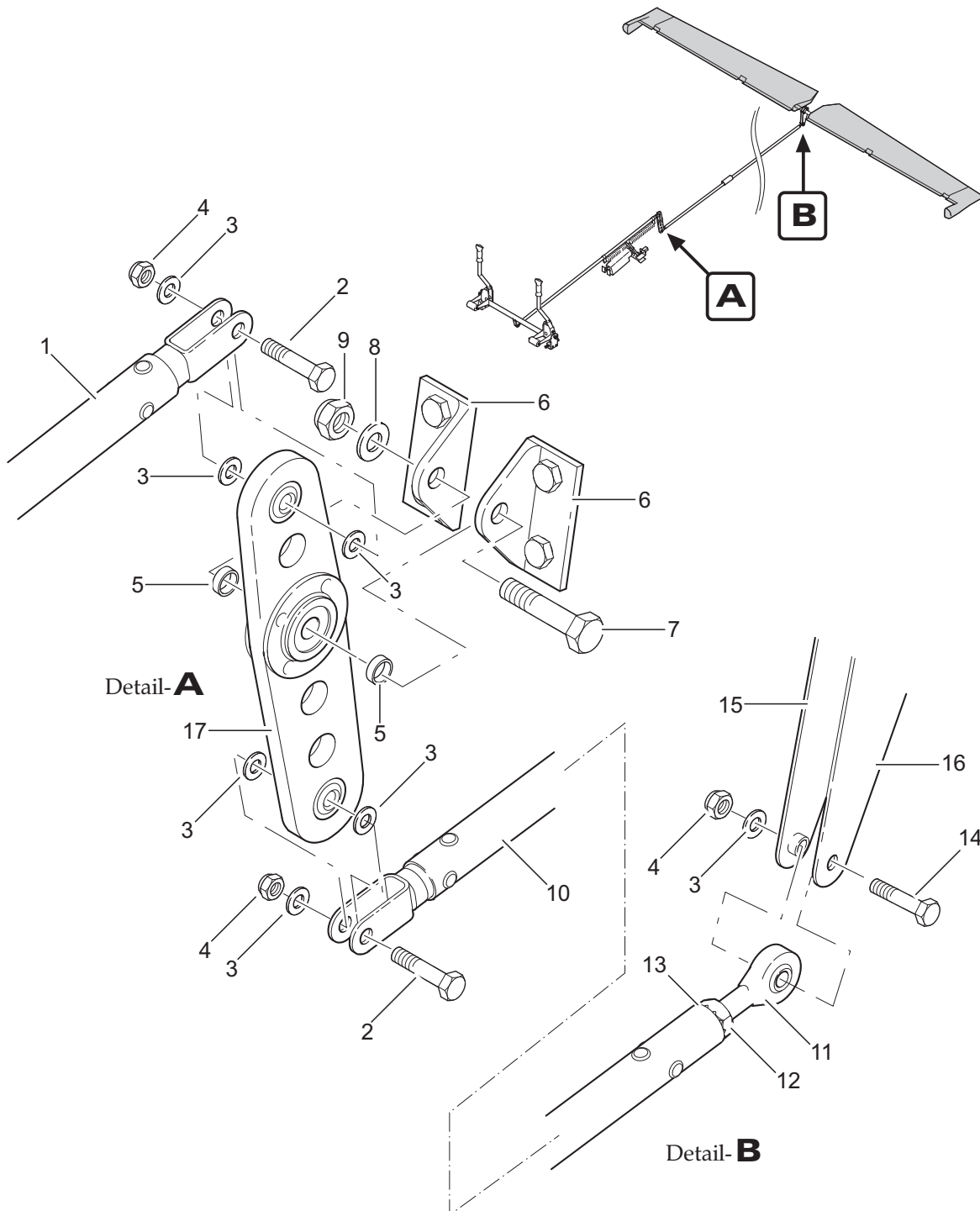
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Elevator Control System - Cockpit
Figure 2

27-30-00

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Elevator Control System - Fuselage
Figure 3

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3			Elevator Control System - Fuselage	
1	1	AT01-6030-011	pushrod	
2	2	1809037_06026	bolt (LN 9037 M6x26)	
3	7	1800125_6,4	washer (ISO 7089 6,4x12)	
4	3	1800985_M6	locknut (ISO 10511 M6)	
5	2	AT01-4510-110	spacer sleeve	
6	2	AT01-4510-128	bearing angle	
7	1	1809037_08040	bolt (LN 9037 M8x40)	
8	1	1800125_8,4	washer (ISO 7089 8,4x16)	
9	1	1800985_M8	locknut (ISO 10511 M8)	
10	1	AT01-6030-010	pushrod	
11	1	AT01-1850-120	swivel head	
12	1	1800936_M8	nut (ISO 4035 M8)	
13	1	1806797_8,4	tooth lock washer (DIN 6797 d8,4)	
14	1	1809037_06030	bolt (LN 9037 M6x30)	
15	1	AT01-3130-002	elevator lever RH	
16	1	AT01-3130-001	elevator lever LH	
17	1	AT01-6030-005	bellcrank	

- Item not illustrated

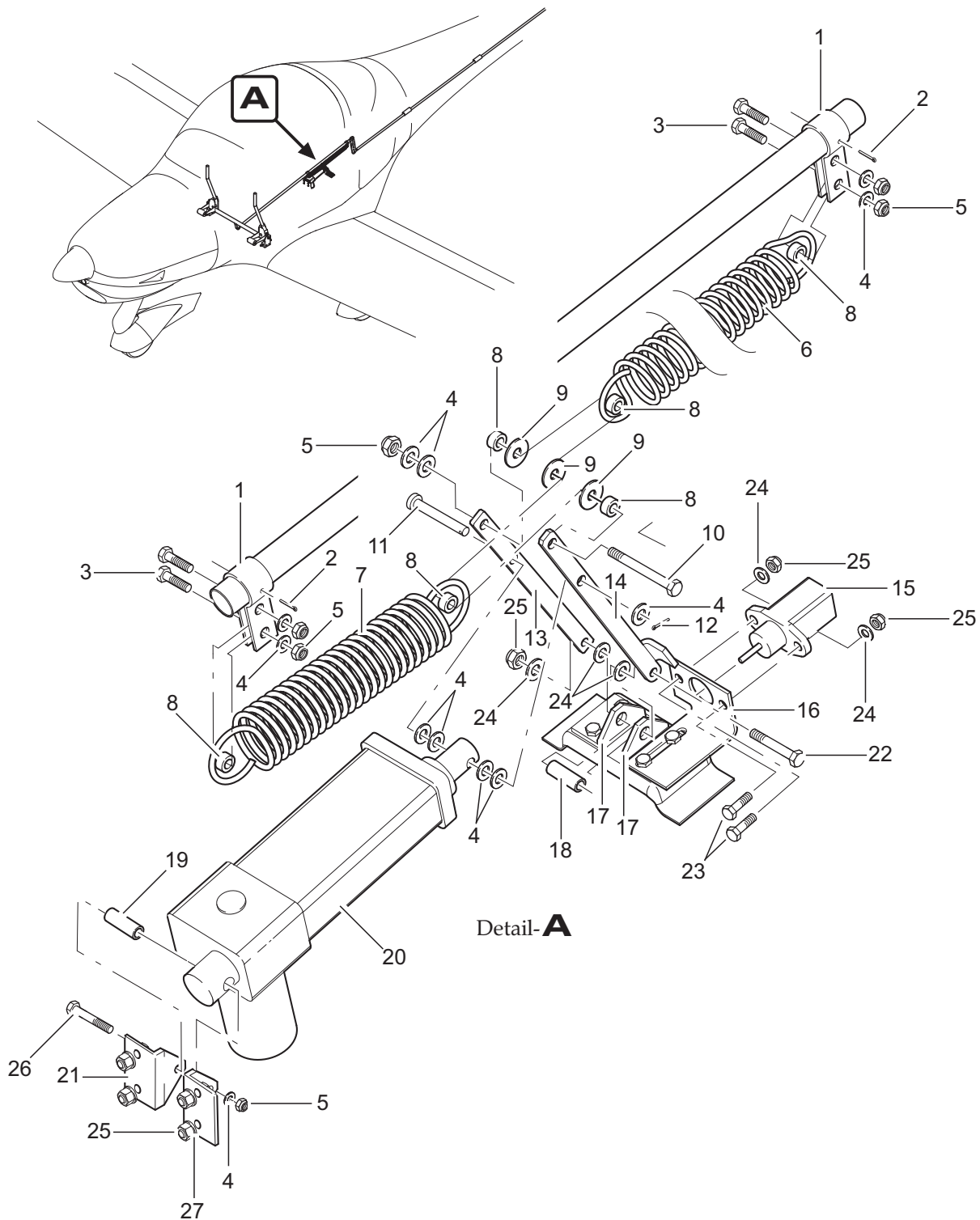
Elevator Control System - Fuselage
Figure 3

27-30-00

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ELEVATOR TRIM SYSTEM



Detail-**A**

EFFECTIVITY

101 - 124

Elevator Trim System
Figure 1A

27-31-00

Page 2A

31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1A			Elevator Trim System	101 - 124
1	2	AT01-6050-117	clamp	
2	2	1800094_2x40	split pin (ISO 1234 2x40)	
3	4	1800933_M6x20	bolt (ISO 4017 M6x20 8.8)	
4	12	1800125_6,4	washer (ISO 7089 6,4x12)	
5	5	1800985_M6	locknut (ISO 10511 M6)	
6	1	AT01-6050-110	spring RWD	
7	1	AT01-6050-111	spring FWD	
8	6	AT01-4510-122	ring	
9	3	1809021_6,4	washer (ISO 7093 6,4x18)	
10	1	1800931_M6x50	bolt (ISO 4014 M6x50 8.8)	
11	1	1801444_6x40	bolt with split pin hole (DIN 1444 6x40)	
12	1	1800094_1,6x16	split pin (ISO 1234 1,6x16)	
13	1	AT01-6050-103	lever RH	
14	1	AT01-6050-104	lever LH	
15	1	AT01-6050-131	trim position sensor	
16	1	AT01-6050-127	sensor bracket	
17	2	AT01-6050-106	bearing angle	
18	1	AT01-6050-121	sleeve	
19	1	AT01-6050-122	sleeve	
20	1	AT01-6050-102	trim actuator SKF	
21	2	AT01-6050-107	bearing angle	
22	1	1800931_M5x40	bolt (ISO 4014 M5x40 8.8)	
23	2	1800933_M5x16	bolt (ISO 4017 M5x16 8.8)	
24	2	1800125_5,3	washer (ISO 7089 5,3x10)	
25	2	1800985_M5	locknut (ISO 10511 M5)	
26	1	1800931_M6x45	bolt (ISO 4014 M6x45 8.8)	
27	4	1809021_5,3	washer (ISO 7093 5,3x15)	

- Item not illustrated

Elevator Trim System
Figure 1A

27-31-00

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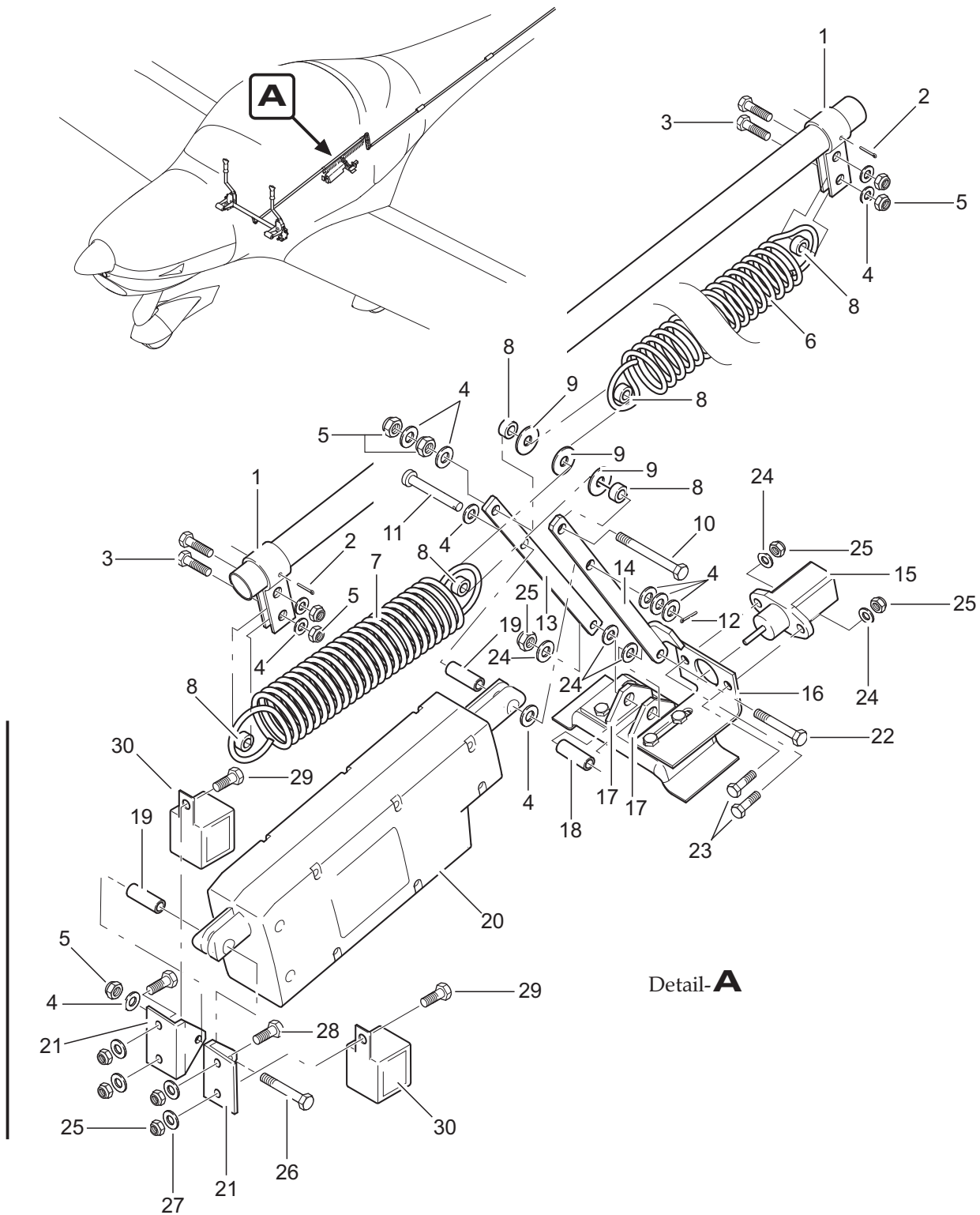


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1B			Elevator Trim System	125 - 999
1	2	AT01-6050-117	clamp	
2	2	1800094_2x40	split pin (ISO 1234 2x40)	
3	4	1800933_M6x20	bolt (ISO 4017 M6x20 8.8)	
4	10	1800125_6,4	washer (ISO 7089 6,4x12)	
5	7	1800985_M6	locknut (ISO 10511 M6)	
6	1	AT01-6050-110	spring RWD	
7	1	AT01-6050-111	spring FWD	
8	6	AT01-4510-122	ring	
9	3	1809021_6,4	washer (ISO 7093 6,4x18)	
10	1	1800931_M6x50	bolt (ISO 4014 M6x50 8.8)	
11	1	1801444_6x40	bolt with split pin hole (DIN 1444 6x40)	
12	1	1800094_1,6x16	split pin (ISO 1234 1,6x16)	
13	1	AT01-6050-103	lever RH	
14	1	AT01-6050-104	lever LH	
15	1	AT01-6050-131	trim position sensor	
16	1	AT01-6050-127	sensor bracket	
17	2	AT01-6050-106	bearing angle	
18	1	AT01-6050-121	sleeve	
19	2	AT01-6050-122	sleeve	
20	1	AT01-6050-105	trim actuator LINAK	
21	2	AT01-6050-107	bearing angle	
22	1	1800931_M5x40	bolt (ISO 4014 M5x40 8.8)	
23	6	1800933_M5x16	bolt (ISO 4017 M5x16 8.8)	
24	5	1800125_5,3	washer (ISO 7089 5,3x10)	
25	7	1800985_M5	locknut (ISO 10511 M5)	
26	1	1800931_M6x45	bolt (ISO 4014 M6x45 8.8)	
27	4	1809021_5,3	washer (ISO 7093 5,3x15)	
28	2	1800933_M5x20	bolt (ISO 4017 M5x20 8.8)	
29	2	1800933_M5x25	bolt (ISO 4017 M5x25 8.8)	
30	2	AT01-4530-624	trim control relay	

- Item not illustrated

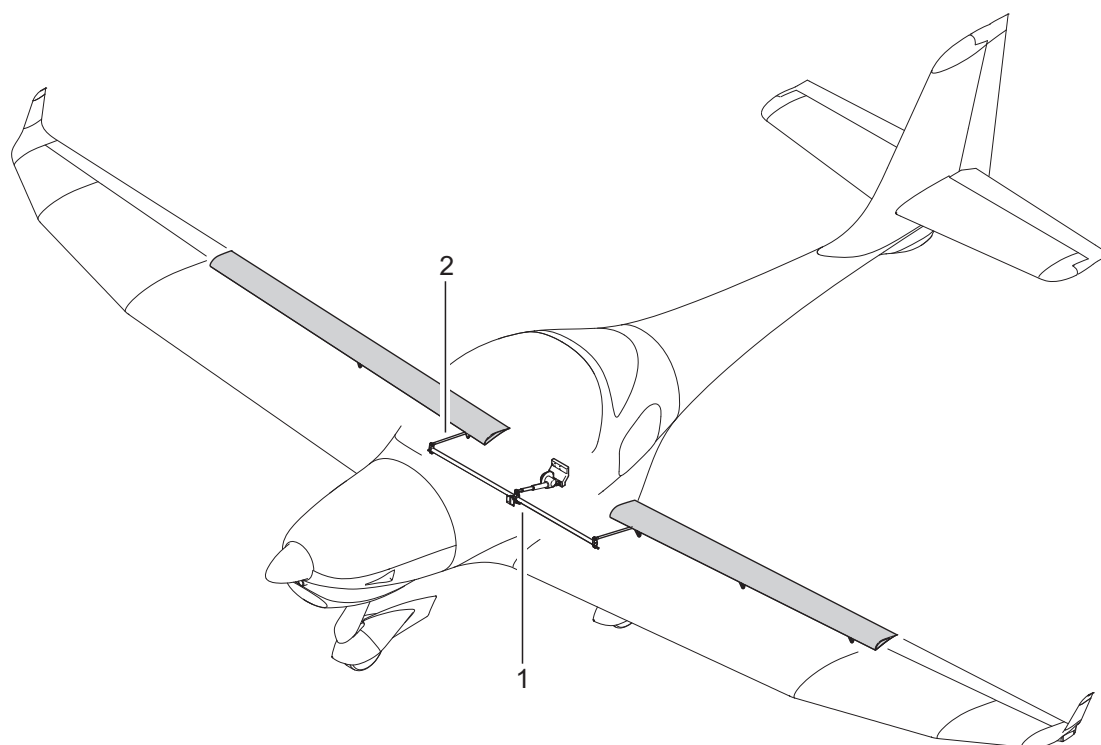
Elevator Trim System
Figure 1B

27-31-00

Page 3B

31.05.24

FLAPS



Flaps - General
Figure 1



AQUILA AT01

ILLUSTRATED PARTS CATALOG

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Flaps - General	
	1		Flap System - Fuselage (refer to 27-50-00, figure 2 for details)	
	2		Flap System - Wings (refer to 27-50-00, figure 3 for details)	

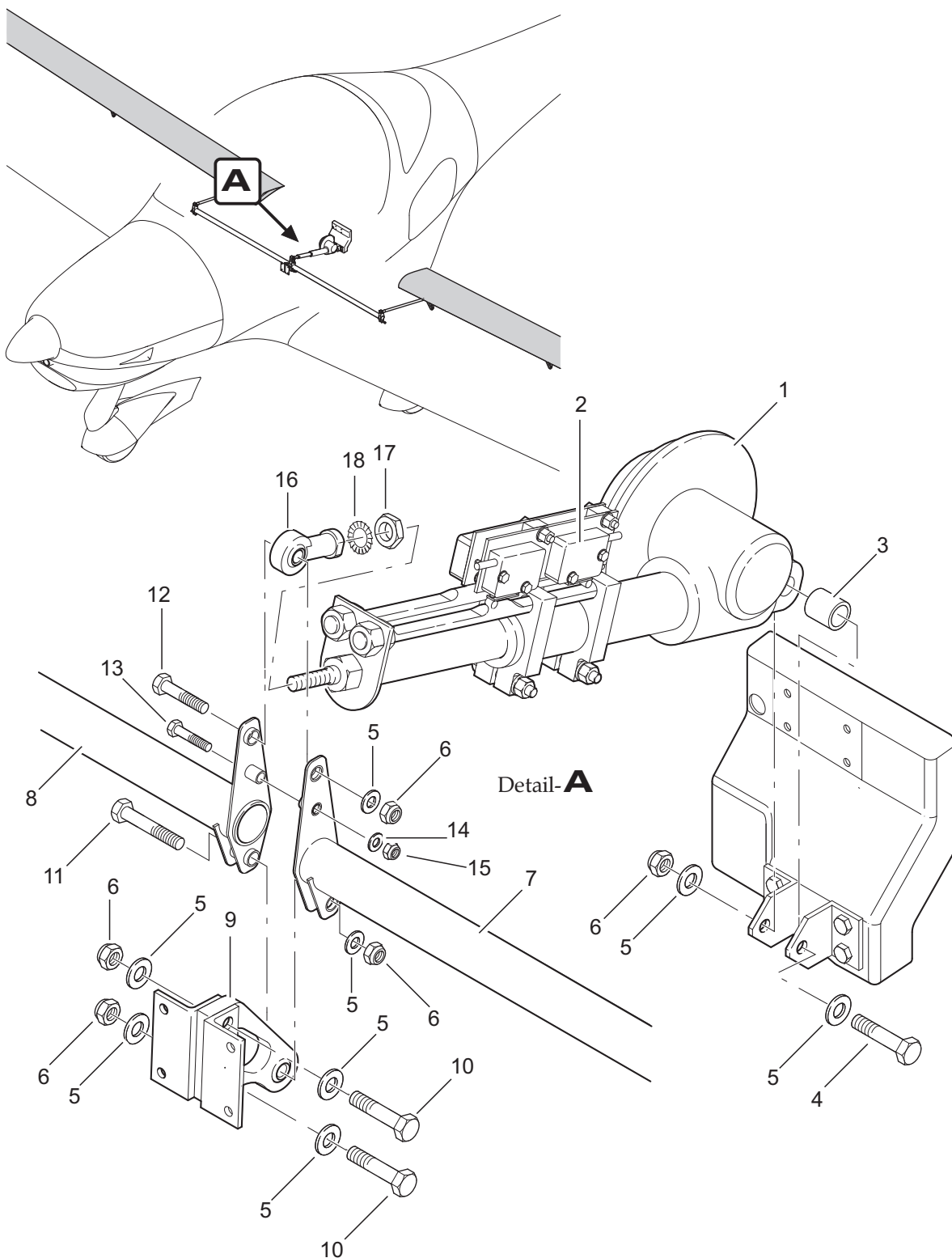
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Flaps - General
Figure 1

27-50-00

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Flap System - Fuselage
Figure 2

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			Flap System - Fuselage	
1	1	AT01-6020-006	flap control actuator assembly	
2	4	AT01-6020-113	position micro switch	
3	1	AT01-6020-100	sleeve	
4	1	1809037_08048	bolt (LN 9037 M8x48)	
5	8	1800125_8,4	washer (ISO 7089 8,4x16)	
6	5	1800985_M8	locknut (ISO 10511 M8)	
7	1	AT01-6020-002	flap rotary shaft LH	
8	1	AT01-6020-003	flap rotary shaft RH	
9	1	AT01-6020-104	bearing angle	
10	2	1809037_08032	bolt (LN 9037 M8x32)	
11	1	1809037_08060	bolt (LN 9037 M8x60)	
12	1	1809037_08035	bolt (LN 9037 M8x35)	
13	1	1800931_M6x35	bolt (ISO 4014 M6x35)	
14	1	1800125_6,4	washer (ISO 7089 6,4x12)	
15	1	1800985_M6	locknut (ISO 10511 M6)	
16	1	AT01-1850-124	swivel head	
17	1	1800936_M8	nut (ISO 4035 M8)	
18	1	1806797_8,4	tooth lock washer (DIN 6797 d8,4)	
-19	2	AT01-4530-624	flap control relay	

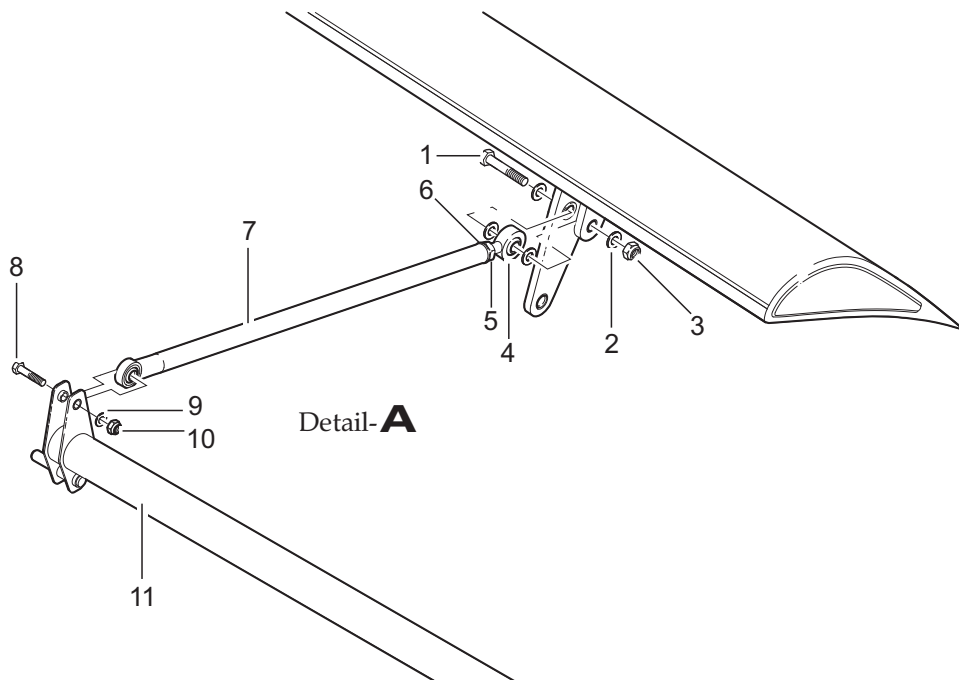
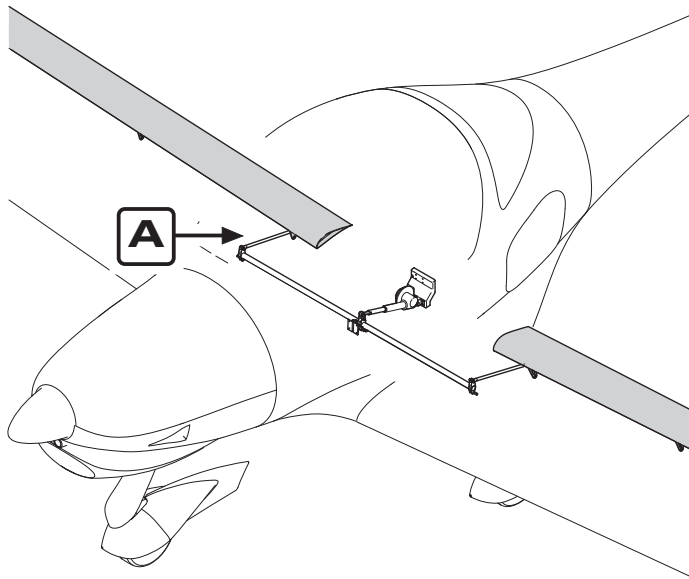
- Item not illustrated

Flap System - Fuselage
Figure 2

27-50-00

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31.05.24



Flap System - Wings
Figure 3

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3			Flap System - Wings	
1	2	1809037_08045	bolt (LN 9037 M8x45)	
2	8	1800125_8,4	washer (ISO 7089 8,4x16)	
3	2	1800985_M8	locknut (ISO 10511 M8)	
4	2	AT01-1850-123	swivel head	
5	2	1800936_M8	nut (ISO 4035 M8)	
6	2	1806797_8,4	tooth lock washer (DIN 6797 d8,4)	
7	2	AT01-6020-010	pushrod	
8	2	1809037_06028	bolt (LN 9037 M6x28)	
9	2	1800125_6,4	washer (ISO 7089 6,4x12)	
10	2	1800985_M6	locknut (ISO 10511 M6)	
11	1	AT01-6020-003	flap rotary shaft RH	
-12	1	AT01-6020-002	flap rotary shaft LH	

- Item not illustrated

Flap System - Wings
Figure 3

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AQUILA AT01
ILLUSTRATED PARTS CATALOG

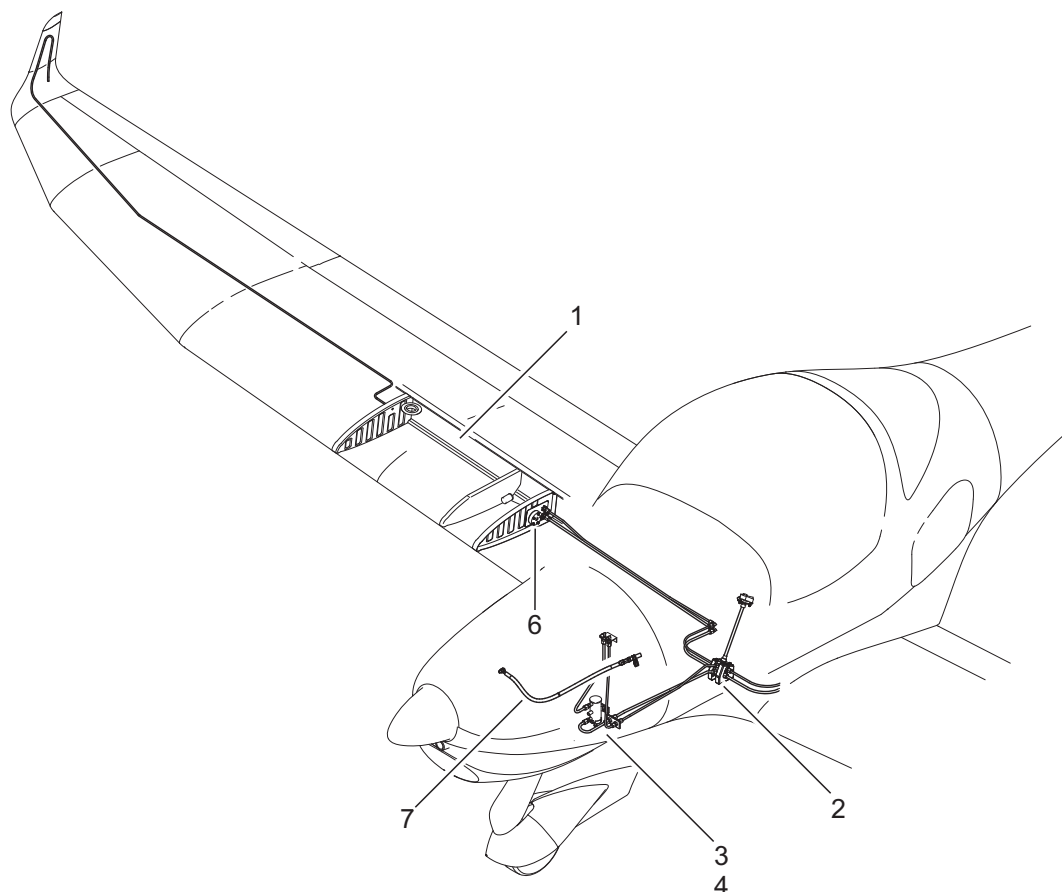
CHAPTER 28

FUEL

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FUEL
GENERAL



NOTE: Only RH side of system is shown for clarity !

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Fuel - General	
1			Fuel System - Wings (refer to 28-00-00, figure 2 for details)	
2			Fuel Selector / Shut-Off Valve Installation (refer to 28-00-00, figure 3 for details)	
3			Fuel System - Engine Compartment (refer to 28-00-00, figure 4A for details)	Rotax 912S
-3			Fuel System - Engine Compartment (refer to 28-00-00, figure 4B for details)	Rotax 914F
-3			Fuel System - Engine Compartment (refer to 28-00-00, figure 4C for details)	Rotax 912iS
4			Electrical Fuel Pump Installation (refer to 28-00-00, figure 5A for details)	Rotax 912S
-4			Electrical Fuel Pump Installation (refer to 28-00-00, figure 5B for details)	Rotax 914F
-4			Electrical Fuel Pump Installation (refer to 28-00-00, figure 5C for details)	Rotax 912iS
-5			Fuel System - Fuselage (refer to 28-00-00, figure 6 for details)	Rotax 912iS
-6			Fuel Quantity Indication (refer to 28-40-00, figure 1A for details)	101 - 250
6			Fuel Quantity Indication (refer to 28-40-00, figure 1B for details)	251 - 999
7			Fuel Pressure Indication (refer to 28-40-00, figure 2A for details)	Rotax 912S & E.I. MVP-50
-7			Fuel Pressure Indication (refer to 28-40-00, figure 2B for details)	Rotax 914F & Garmin G3X
-7			Fuel Pressure Indication (refer to 28-40-00, figure 2C for details)	Rotax 914F & E.I. MVP-50

- Item not illustrated

Fuel - General
Figure 1

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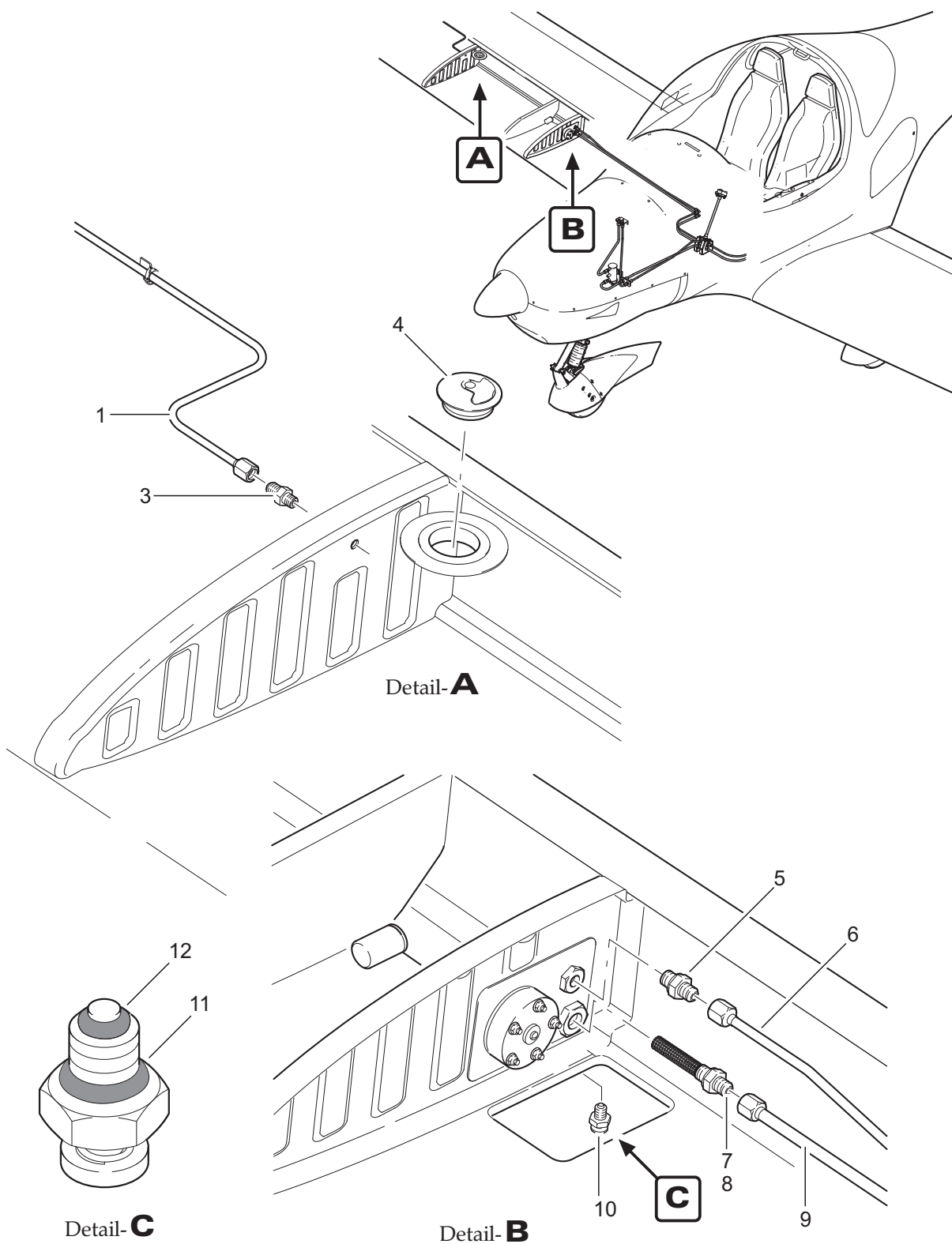
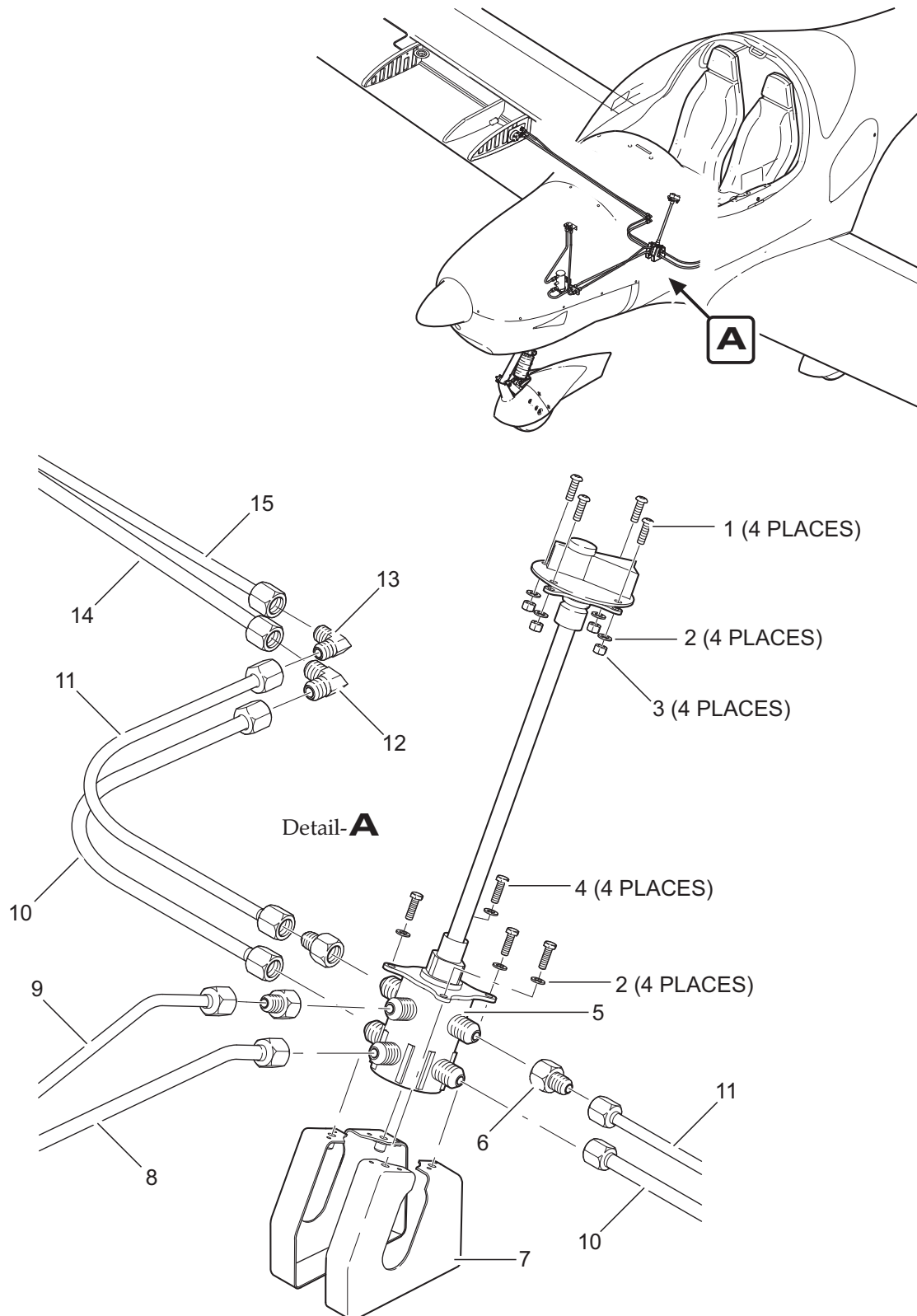


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			Fuel System - Wings	
1	1	AT01-8030-003	fuel tank ventilation line RH	
-2	1	AT01-8030-004	fuel tank ventilation line LH	
3	1	AT01-4520-216	fitting 1/8" BSPP	
4	1	AT01-4010-106	fuel filler cap	
5	1	AT01-4520-211	fitting 1/4" BSPP (size 5)	Rotax 912S (101 - 398) / Rotax 914F (367 - 379) 1)
		AT01-4520-368	fitting 1/4" BSPP (size 6)	Rotax 912S (399 - 999) / Rotax 912iS / Rotax 914F (380 - 999)
6	1	AT01-8020-003	fuel return line wing	Rotax 912S (101 - 398) / Rotax 914F (367 - 379) 1)
		AT01-8020-022	fuel return line wing	Rotax 912S (399 - 408) / Rotax 912iS (404 - 408) / Rotax 914F (380 - 408)
		AT01-8020-026	fuel return line wing RH	409 - 999
		AT01-8020-027	fuel return line wing LH	409 - 999
7	1	AT01-8010-003	finger strainer	101 - 326
		AT01-8010-119	finger strainer NPT (requires item 8)	327 - 999
8	1	AT01-4520-325	fitting 1/4" NPT (required only for finger strainer NPT)	327 - 999
9	1	AT01-8010-004	fuel supply line wing	101 - 326
		AT01-8010-023	fuel supply line wing	327 - 408
		AT01-8010-025	fuel supply line wing	409 - 999
10	1	AT01-8010-110	drain valve (standard version / including gaskets)	2)
		AT01-8010-151	drain valve (optional long version / including gaskets)	2)
11	1	AT01-8010-157	gasket (included in drain valve)	
12	1	AT01-8010-156	gasket (included in drain valve)	

1) S/N AT01-367,370,371,374,379: Refer to SB-AT01-036 for further information.

2) Refer to SI-AT01-018 (annex 8) for further information.



Fuel Selector / Shut-Off Valve Installation
Figure 3

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3			Fuel Selector / Shut-Off Valve Installation	
1	4	1807380_M5x16	bolt (ISO 7380 M5x16)	
2	8	1800125_5,3	washer (ISO 7089 5,3x10)	
3	4	1800985_M5	locknut (ISO 10511 M5)	
4	4	1800933_M5x12	bolt (ISO 4017 M5x12 8.8)	
5	1	AT01-8010-101	fuel selector valve	
6	3	AT01-4520-240	reducer (size 6 to size 5)	Rotax 912S (101 - 398) / Rotax 914F (367 - 379) 1) Rotax 912S (399 - 999)
	1	AT01-4520-240	reducer (size 6 to size 5)	
7	1	AT01-2120-009	mounting bracket (for fuel selector valve)	
8	1	AT01-8010-009	fuel supply line front	Rotax 912S
		AT01-8010-013	fuel supply line selector / pumps	Rotax 912iS / 914F
9	1	AT01-8020-005	fuel return line front	Rotax 912S
		AT01-8020-011	fuel return line front	Rotax 914F (367 - 379) 1)
		AT01-8020-024	fuel return line front	Rotax 914F (380 - 999)
		AT01-8020-017	fuel return line manifold / selector	Rotax 912iS
10	2	AT01-8010-005	fuel supply line center	
11	2	AT01-8020-004	fuel return line center	Rotax 912S (101 - 398) / Rotax 914F (367 - 379) 1)
		AT01-8020-023	fuel return line center	Rotax 912S (399 - 999) / Rotax 912iS (LH side) / Rotax 914F (380 - 999)
		AT01-8020-016	fuel return line center (Rotax 912iS)	Rotax 912iS (RH side)
12	1	AT01-4520-153	elbow fitting (size 6)	
13	1	AT01-4520-154	elbow fitting (size 5)	Rotax 912S (101 - 398) / Rotax 914F (367 - 379) 1)
		AT01-4520-153	elbow fitting (size 6)	Rotax 912S (399 - 999) / Rotax 912iS / Rotax 914F (380 - 999)
14	1	AT01-8010-004	fuel supply line wing	101 - 326
		AT01-8010-023	fuel supply line wing	327 - 408
		AT01-8010-025	fuel supply line wing	409 - 999
15	1	AT01-8020-003	fuel return line wing	Rotax 912S (101 - 398) / Rotax 914F (367 - 379) 1)
		AT01-8020-022	fuel return line wing	Rotax 912S (399 - 408) / Rotax 912iS (404 - 408) / Rotax 914F (380 - 408)
		AT01-8020-026	fuel return line wing RH	409 - 999
		AT01-8020-027	fuel return line wing LH	409 - 999
-16	2	AT01-8010-124	universal joint (for fuel selector valve / optional)	
-17	1	AT01-4520-180	T-fitting (size 6)	Rotax 912iS

1) S/N AT01-367,370,371,374,379: Refer to SB-AT01-036 for further information.

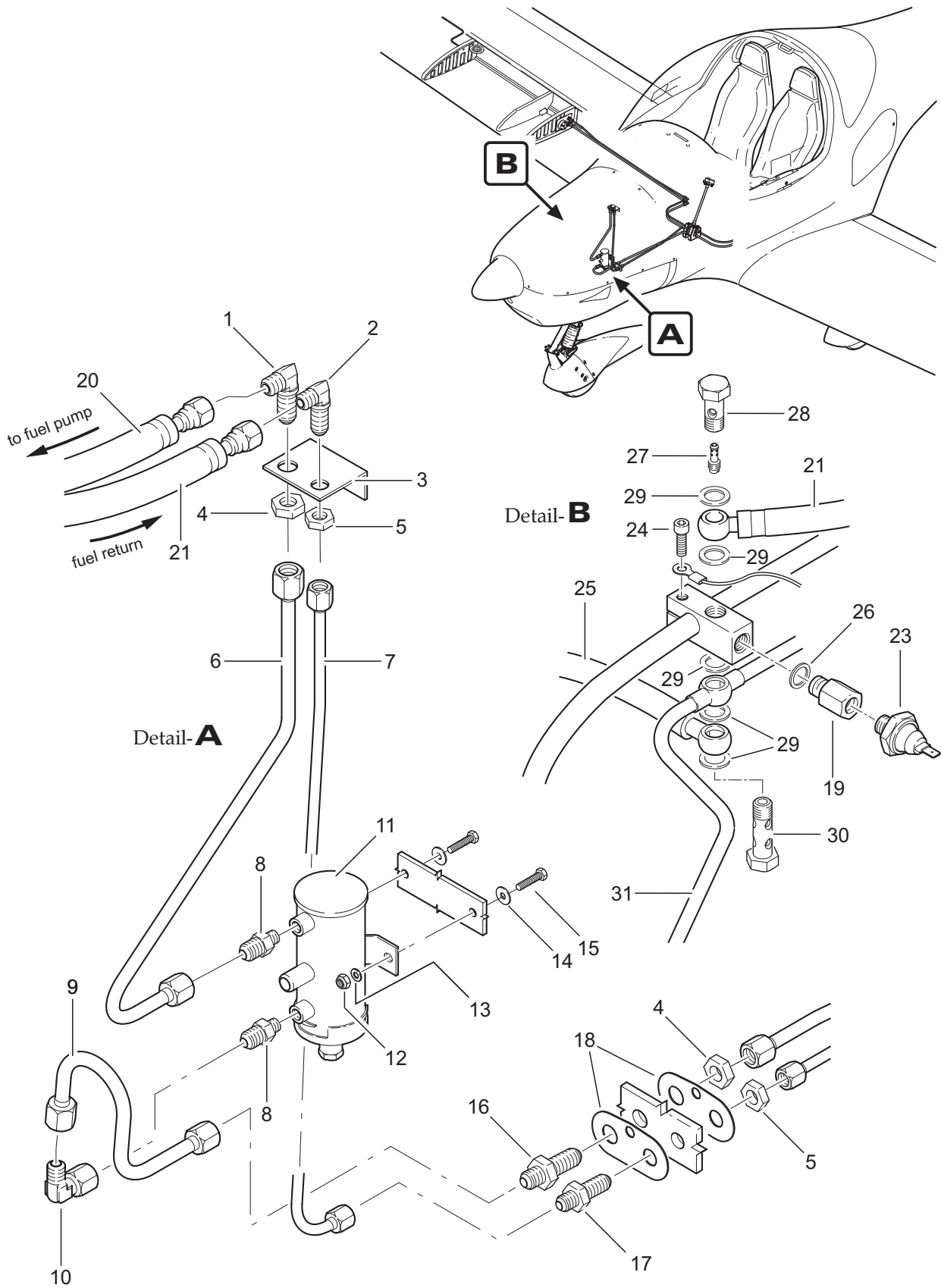
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Fuel Selector / Shut-Off Valve Installation
Figure 3

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EFFECTIVITY

Aircraft equipped
with Rotax 912S

Fuel System - Engine Compartment
Figure 4A

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
4A			Fuel System - Engine Compartment	Rotax 912S
1	1	AT01-4520-221	elbow fitting (size 6)	
2	1	AT01-4520-220	elbow fitting (size 5)	
3	1	AT01-8000-101	support bracket	
4	2	AT01-4520-229	nut (included in item 1 / 16)	
5	2	AT01-4520-227	nut (included in item 2 / 17)	
6	1	AT01-8010-008	fuel supply line fuel pump top	
7	1	AT01-8020-006	fuel return line firewall	
8	2	AT01-8010-117	fuel pump fitting (enlarged inner diameter)	2)
9	1	AT01-8010-007	fuel supply line fuel pump bottom	
10	1	AT01-4520-161	elbow fitting (size 6)	
11	1	AT01-8010-011	electrical fuel pump assy (refer to figure 5A)	
12	2	1800985_M6	locknut (ISO 10511 M6)	
13	2	1800125_6,4	washer (ISO 7089 6,4x12)	
14	2	1809021_6,4	washer (DIN 9021 6,4x18)	
15	2	1800933_M6x30	bolt (ISO 4017 M6x30 8.8)	
16	1	AT01-4520-224	bulkhead fitting (size 6)	
17	1	AT01-4520-223	bulkhead fitting (size 5)	
18	2	AT01-2120-155	shim	
19	1	AT01-7030-213	connection adapter for fuel pressure sensor	analog / G3X / 1)
20	1	Ro 874347	fuel supply hose firewall / mechanical fuel pump	
21	1	AT01-8020-007	fuel return hose	
- 22	1	AT01-7080-396	mechanical fuel pump assy ROTAX (incl. O-ring Ro 631870 and isolating flange Ro 950228)	
23	1	AT01-7030-202	fuel pressure sensor	analog / G3X / 1)
24	1	1800912_M5x16	bolt (ISO 4762 M5x16 8.8)	
25	1	Ro 874337	fuel supply hose mechanical fuel pump / fuel manifold	
26	1	1807603A_10x13,5x1_Al	sealing washer (aluminium / DIN 7603 A 10x13,5x1)	analog / G3X / 1)
27	1	AT01-7050-108	restricting orifice (0,25mm)	
		AT01-8020-104	restricting orifice (0,20mm / optional / refer to SI-AT01-018 annex 11)	
28	1	Ro 941785	banjo bolt	
29	5	Ro 950143	gasket	
30	1	Ro 940872	banjo bolt	
31	1	Ro 874911	fuel hose	
-32	AR	AT01-4520-100	drain hose carburetor / airbox	
-33	AR	AT01-4520-101	drain hose mech. fuel pump (refer to SB-AT01-033)	
-34	AR	AT01-7000-153	coil spring for mech. fuel pump drain line (refer to SB-AT01-033)	
-35	AR	AT01-4520_COBRA_10,0/7W4	Cobra hose clamp (for hose AT01-4520-100)	
-36	AR	AT01-4520_COBRA_7,5/7W4	Cobra hose clamp (for hose AT01-4520-101)	
-37	AR	1050064	heat protection foil (self-adhesive)	

1) Refer to SI-AT01-028 for further information on the retrofit of an additional fuel pressure sensor for display via G3X.

2) Refer to SI-AT01-030 for further information on the retrofit of a fitting with enlarged inner diameter.

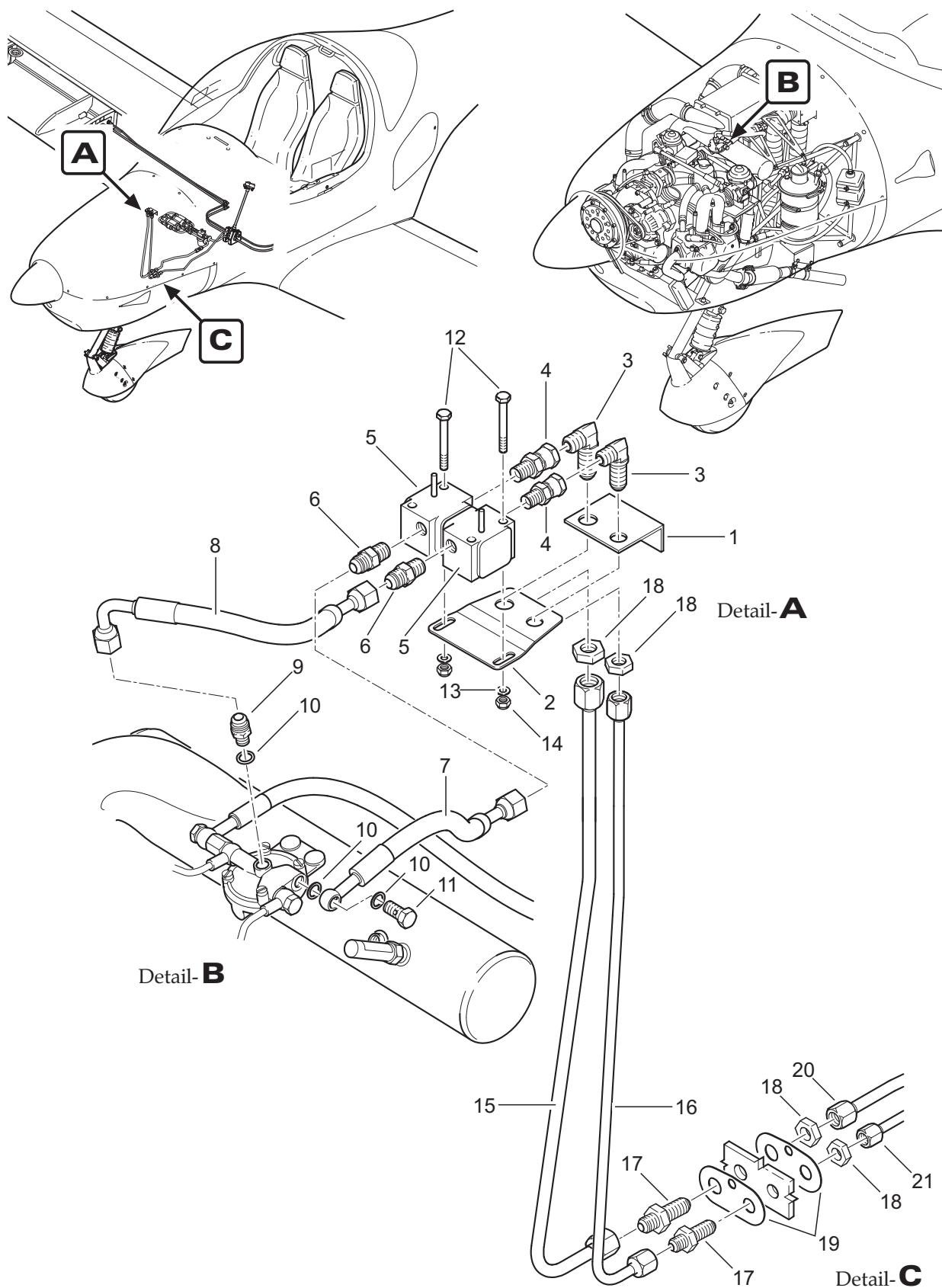
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Fuel System - Engine Compartment
Figure 4A

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EFFECTIVITY

Aircraft equipped
with Rotax 914F

Fuel System - Engine Compartment
Figure 4B

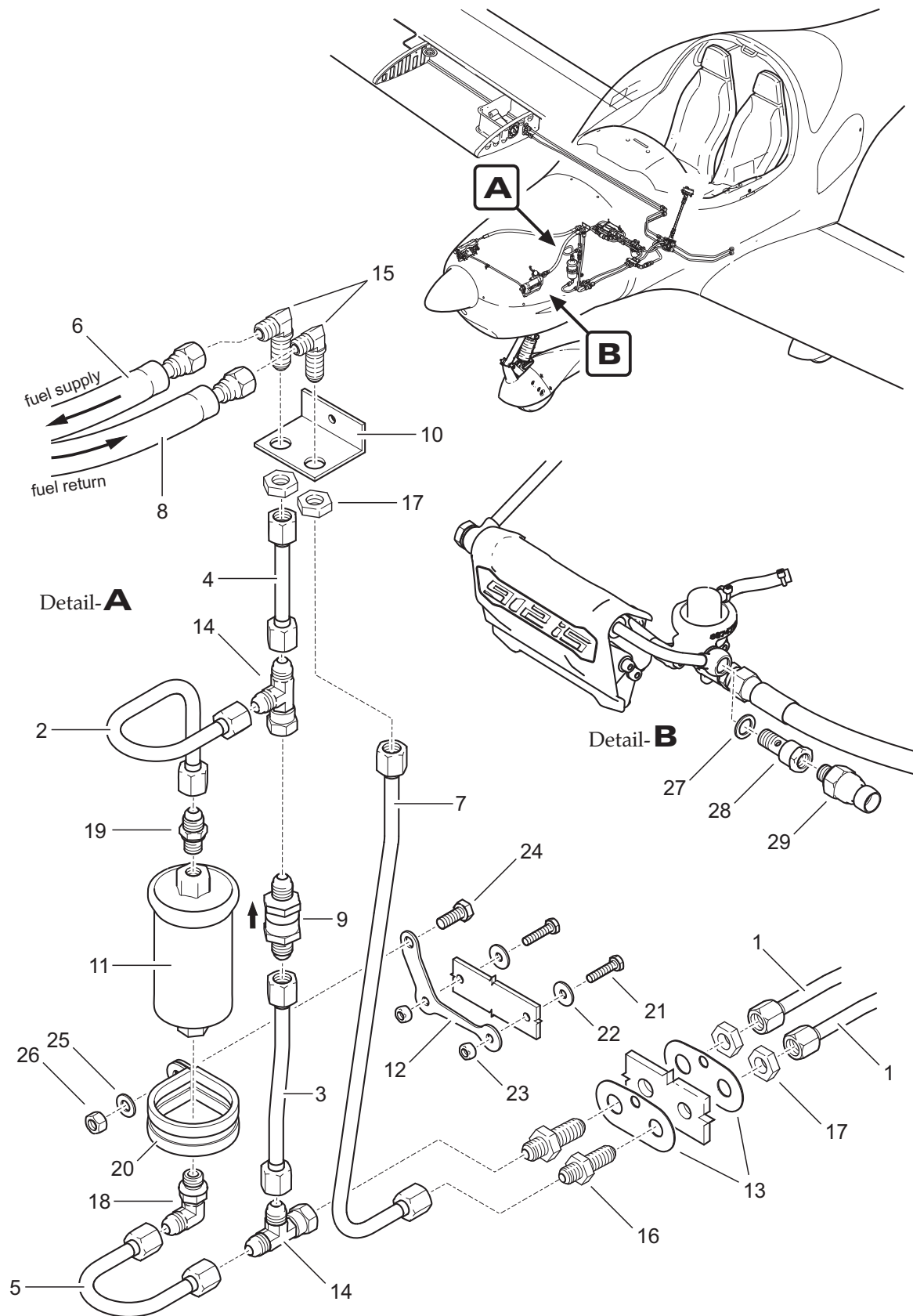
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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
4B			Fuel System - Engine Compartment	Rotax 914F
1	1	AT01-8000-106	mounting bracket	380 - 999 / 1)
2	1	AT01-8000-107	mounting bracket	380 - 999 / 1)
3	2	AT01-4520-221	elbow fitting (size 6)	380 - 999 / 1)
4	2	AT01-4520-323	adapter (size 6 - 1/4"NPT)	380 - 999 / 1)
5	2	AT01-8040-102	fuel flow transducer	
6	2	AT01-4520-325	adapter (size 6 - 1/4"NPT)	
7	1	AT01-8010-017	fuel supply hose	
8	1	AT01-8020-010	fuel return hose	
9	1	AT01-7080-159	adapter (size 6 - M10x1)	
10	3	AT01-7080-160	sealing washer	
11	1	AT01-7080-157	banjo bolt	
12	2	1800931_M6x50	bolt (ISO 4014 M6x50 8.8)	
13	2	1800125_6,4	washer (ISO 7089 6,4x12)	
14	2	1800985_M6	locknut (ISO 10511 M6)	
15	1	AT01-8010-015	fuel supply line firewall	
16	1	AT01-8020-025	fuel return line firewall	380 - 999 / 1)
17	2	AT01-4520-224	bulkhead fitting (size 6)	380 - 999 / 1)
18	4	AT01-4520-229	nut (included in item 3 / 17)	380 - 999 / 1)
19	2	AT01-2120-156	shim	380 - 999 / 1)
20	1	AT01-8010-014	fuel supply line pumps / firewall 2	
21	1	AT01-8020-024	fuel return line front	380 - 999 / 1)
-22	AR	AT01-4520-100	drain hose carburetor / airbox	
-23	AR	AT01-4520_COBRA_10,0/7W4	Cobra hose clamp (for hose AT01-4520-100)	
-24	AR	1050064	heat protection foil (self-adhesive)	

1) S/N 367,370,371,374,379: Refer to SB-AT01-036 for further information.



EFFECTIVITY

Aircraft equipped
with Rotax 912iS

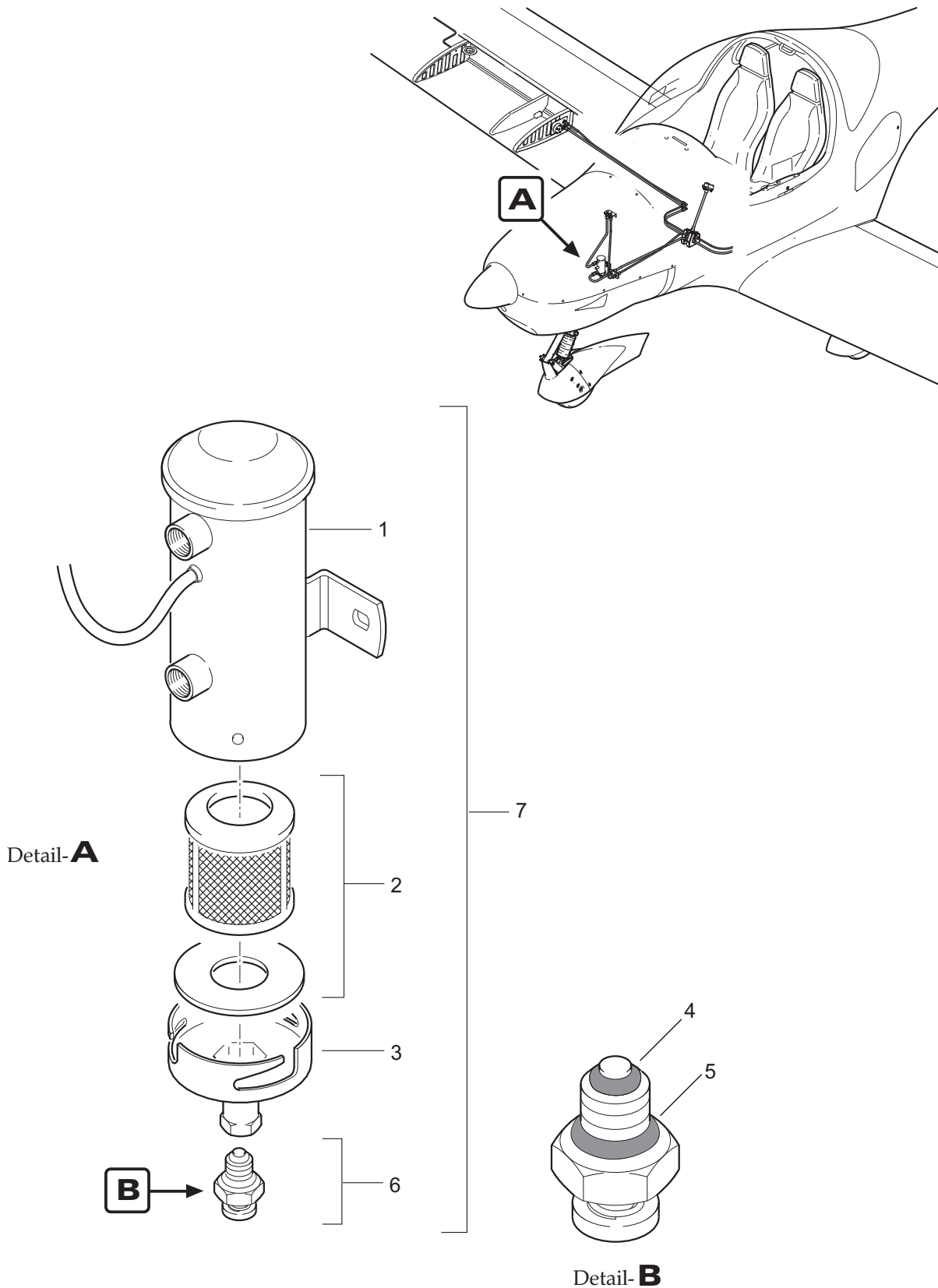
Fuel System - Engine Compartment
Figure 4C

28-00-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
4C			Fuel System - Engine Compartment	Rotax 912iS
1	2	AT01-8000-020	fuel supply / return line manifold / firewall	
2	1	AT01-8010-007	fuel supply line fuel pump bottom	
3	1	AT01-8010-019	bypass line fine filter	
4	1	AT01-8010-020	fuel supply line firewall	
5	1	AT01-8010-024	fuel supply line fine filter	
6	1	AT01-8010-021	fuel supply hose	
7	1	AT01-8020-021	fuel return line firewall	
8	1	AT01-8020-015	fuel return hose	
9	1	AT01-8000-104	check valve (0,8-1,2 bar)	
10	1	AT01-8000-106	support bracket	
11	1	AT01-8010-149	fine filter (Rotax 874060)	
12	1	AT01-8010-158	mounting bracket	
13	2	AT01-2120-156	shim	
14	2	AT01-4520-180	T-fitting (size 6)	
15	2	AT01-4520-221	elbow fitting (size 6)	
16	2	AT01-4520-224	bulkhead fitting (size 6)	
17	4	AT01-4520-229	nut (included in item 15 / 16)	
18	1	AT01-4520-380	elbow fitting (M14 / size 6)	
19	1	AT01-4520-381	fitting (M12 / size 6)	
20	1	AT01-4520_RSGU1.55/20W1	pipe clamp	
21	2	1800933_M6x25	bolt (ISO 4017 M6x25 8.8)	
22	2	1809021_6,4	washer (DIN 9021 6,4x18)	
23	2	1800985_M6	locknut (ISO 10511 M6)	
24	1	1800933_M8x20	bolt (ISO 4017 M8x20 8.8)	
25	1	1800125_8,4	washer (ISO 7089 8,4x16)	
26	1	1800985_M8	locknut (ISO 10511 M8)	
27	1	AT01-7080-172	sealing washer	
28	1	AT01-7080-171	banjo bolt	
29	1	AT01-2840-245	fuel pressure sensor (Rotax 664365)	



EFFECTIVITY

Aircraft equipped
with Rotax 912S

Electrical Fuel Pump Installation
Figure 5A

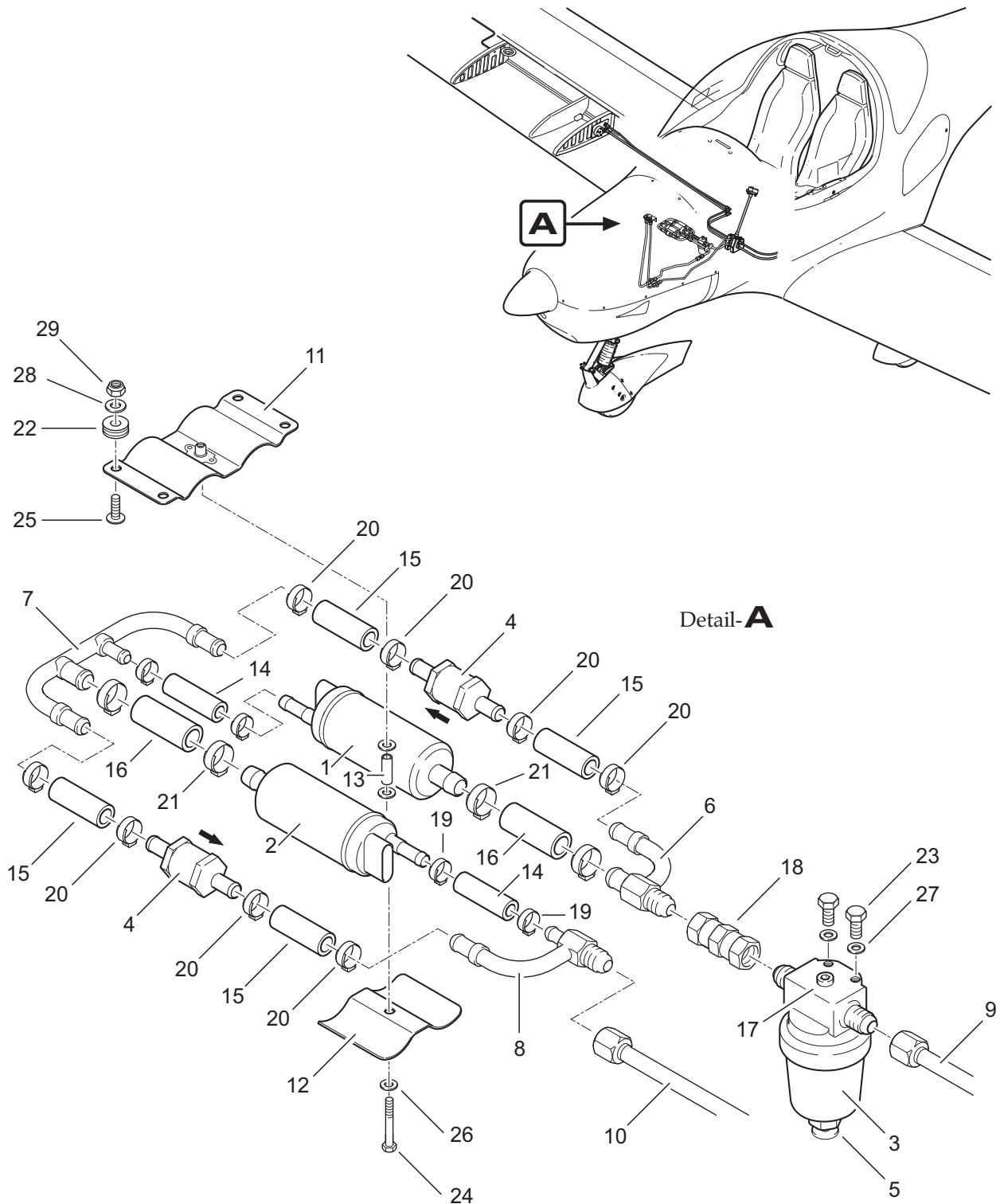
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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
5A			Electrical Fuel Pump Installation	Rotax 912S
1	1	AT01-8010-011	electrical fuel pump assy	
2	1	AT01-8010-114	filter and gasket	
3	1	-	electrical fuel pump cap (included in fuel pump assy)	
4	1	AT01-8010-156	gasket (included in drain valve)	
5	1	AT01-8010-157	gasket (included in drain valve)	
6	1	AT01-8010-110	drain valve (standard version / including gaskets)	1)
		AT01-8010-151	drain valve (optional long version / including gaskets)	1)
7	1	AT01-8010-011	electrical fuel pump assy	

1) Refer to SI-AT01-018 (annex 8) for further information.



EFFECTIVITY

Aircraft equipped
with Rotax 914F

Electrical Fuel Pump Installation
Figure 5B

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
5B			Electrical Fuel Pump Installation	Rotax 914F
1	1	AT01-8010-128	MAIN fuel pump	
2	1	AT01-8010-129	AUX fuel pump	
3	1	AT01-8010-145	gascolator	
	1	AT01-8010-152	O-ring (included in AT01-8010-145)	
	1	AT01-8010-153	fuel filter (included in AT01-8010-145)	
4	2	AT01-8010-126	check valve	
5	1	AT01-8010-147	drain valve CAV-110	
6	1	AT01-8010-030	fuel line 1	
7	1	AT01-8010-031	fuel line 2	
8	1	AT01-8010-032	fuel line 3	
9	1	AT01-8010-013	fuel supply line selector / pumps	
10	1	AT01-8010-022	fuel supply line pumps / firewall 1	
11	1	AT01-8010-143	upper fuel pump mounting bracket	
	1	18029679M5	rivet nut (LN 29679 M5 / included in AT01-8010-143)	
	2	1807337_2,4x6 Al/St	rivet (ISO 15984 2,4x6 Al/St / included in AT01-8010-143)	
12	1	AT01-8010-144	lower fuel pump mounting bracket	
13	1	AT01-8010-154	spacer sleeve	
14	2	AT01-4520-400	fuel hose (DIN 73379 7,3x3 type 3E / 50 mm)	
15	4	AT01-4520-401	fuel hose (DIN 73379 9,3x3 type 3E / 50 mm)	
16	2	AT01-4520-402	fuel hose (DIN 73379 11,3x3,3 type 3E / 50 mm)	
17	1	AT01-8010-146	plug 1/8" NPT	
18	1	AT01-4520-176	straight connector 9/16" UNF (female)	
19	4	4520_1OHR_D15,5	hose clamp (12,8 - 14,8 mm / for hose AT01-4520-400)	
20	8	4520_1OHR_D17,5	hose clamp (14,6 - 16,8 mm / for hose AT01-4520-401)	
21	4	4520_1OHR_D21,0	hose clamp (18,0 - 20,3 mm / for hose AT01-4520-402)	
22	4	AT01-4520-331	grommet (AN931-4-7)	
23	2	122630	bolt (1/4" UNF x 1/2")	
24	1	1800931_M5x35	bolt (ISO 4014 M5x35 8.8)	
25	4	1807380_5x16 ULF	bolt (ISO 7380 M5x16)	
26	3	1800125_5,3	washer (ISO 7089 5,3x10)	
27	2	1800125_6,4	washer (ISO 7089 6,4x12)	
28	4	1809021_5,3	washer (ISO 7093 5,3x15)	
29	4	1800985_M5	locknut (ISO 10511 M5)	

Fuel Pump Compartment:

-30	1	AT01-2110-018	compartment cover (211 LT)
	6	1807380_4x14 ULS	bolt (ISO 7380 M4x14 / attachment of AT01-2110-018)
	6	1809021_4,3	washer (ISO 7093 4,3x12 / attachment of AT01-2110-018)
-31	1	AT01-2110-020	lower compartment access plate (210 BB)
	4	1807380_5x16 ULF	bolt (ISO 7380 M5x16 / attachment of AT01-2110-020)

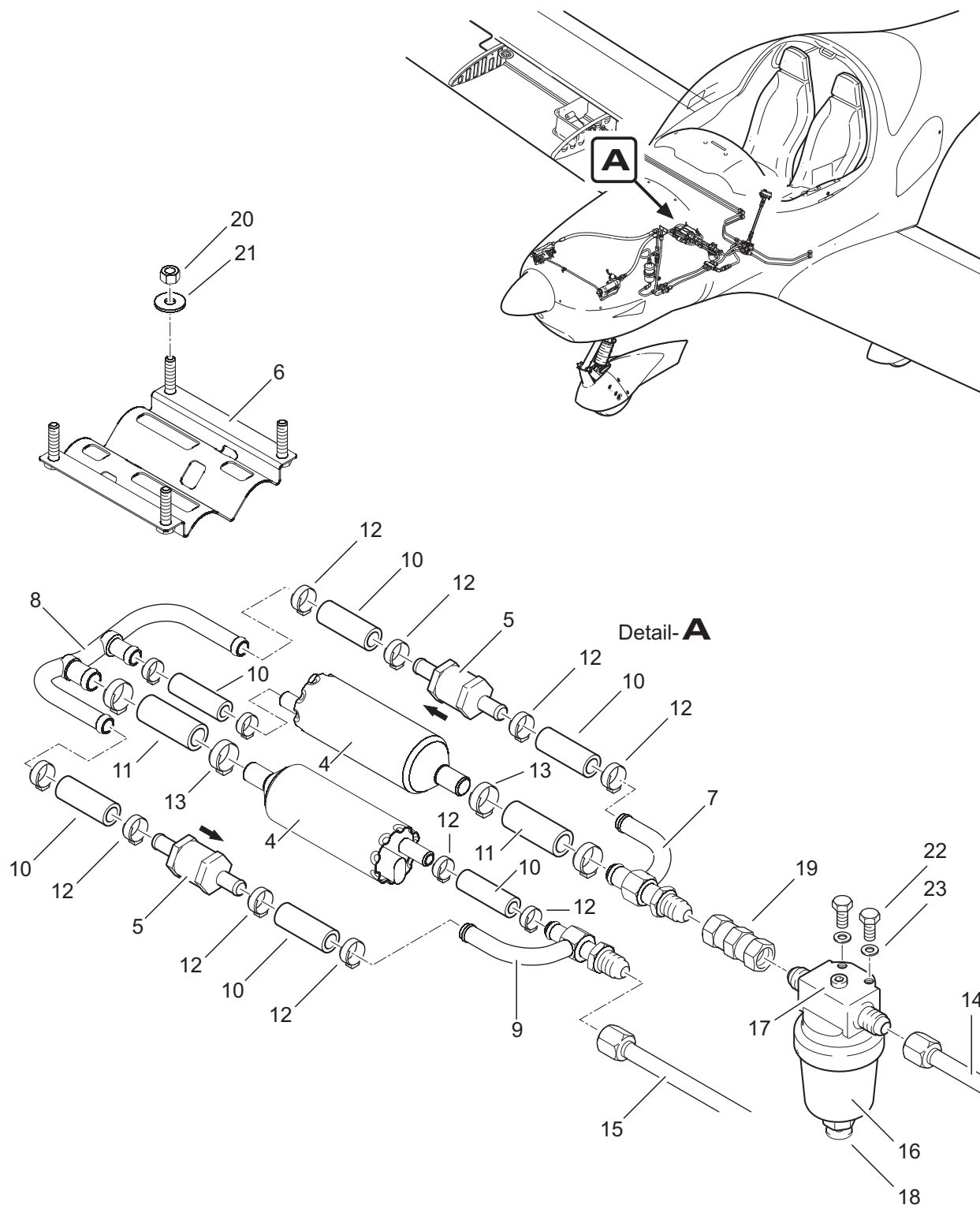
- Item not illustrated

Electrical Fuel Pump Installation
Figure 5B

28-00-00

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EFFECTIVITY

Aircraft equipped
with Rotax 912iS

Electrical Fuel Pump Installation
Figure 5C

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
5C			Electrical Fuel Pump Installation	Rotax 912iS
1	1	AT01-7080-177	fuel pump assy UNF (Rotax P/N: 889697) includes items 4 - 13 / refer to Rotax SI-PAC-008 / SI-PAC-016	
2	1	AT01-7080-187	fuel pump service kit (Rotax P/N: 889537) includes all rubber hoses and clamps necessary for 5 year rubber replacement / refer to Rotax SI-PAC-008 / SI-PAC-016	
3	2	AT01-8010-036	replacement kit fuel pump includes 1x fuel pump and all necessary rubber hoses and clamps to replace a single pump	
4	2	-	fuel pump	
5	2	AT01-8010-126	check valve	
6	1	-	mounting bracket	
7	1	-	fuel line 1	
8	1	-	fuel line 2	
9	1	-	fuel line 3	
10	6	-	fuel hose	
11	2	-	fuel hose	
12	12	-	hose clamp	
13	4	-	hose clamp	
14	1	AT01-8010-013	fuel supply line selector / pumps	
15	1	AT01-8010-022	fuel supply line pumps / firewall 1	
16	1	AT01-8010-145	gascolator	
	1	AT01-8010-152	O-ring (included in AT01-8010-145)	
	1	AT01-8010-153	fuel filter (included in AT01-8010-145)	
17	1	AT01-8010-146	plug 1/8" NPT	
18	1	AT01-8010-147	drain valve CAV-110	
19	1	AT01-4520-176	straight connector 9/16" UNF (female)	
20	4	1800985_M6	locknut (ISO 10511 M6)	
21	4	1809021_6,4	washer (ISO 7093 6,4x18)	
22	2	122630	bolt (1/4" UNF x 1/2")	
23	2	1800125_6,4	washer (ISO 7089 6,4x12)	
-24	1	AT01-1130-106	placard MAIN fuel pump	
-25	1	AT01-1130-107	placard AUX fuel pump	

Fuel Pump Compartment:

-26	1	AT01-2110-021	compartment cover (211 LT)
	6	1807380_4x14 ULS	bolt (ISO 7380 M4x14 / attachment of AT01-2110-021)
	6	1809021_4,3	washer (ISO 7093 4,3x12 / attachment of AT01-2110-021)
-27	1	AT01-2110-020	lower compartment access plate (210 BB)
	4	1807380_5x16 ULF	bolt (ISO 7380 M5x16 / attachment of AT01-2110-020)

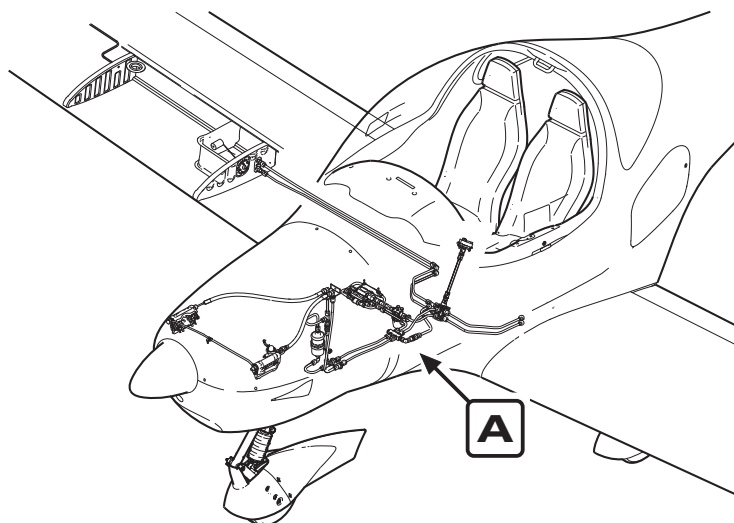
- Item not illustrated

Electrical Fuel Pump Installation
Figure 5C

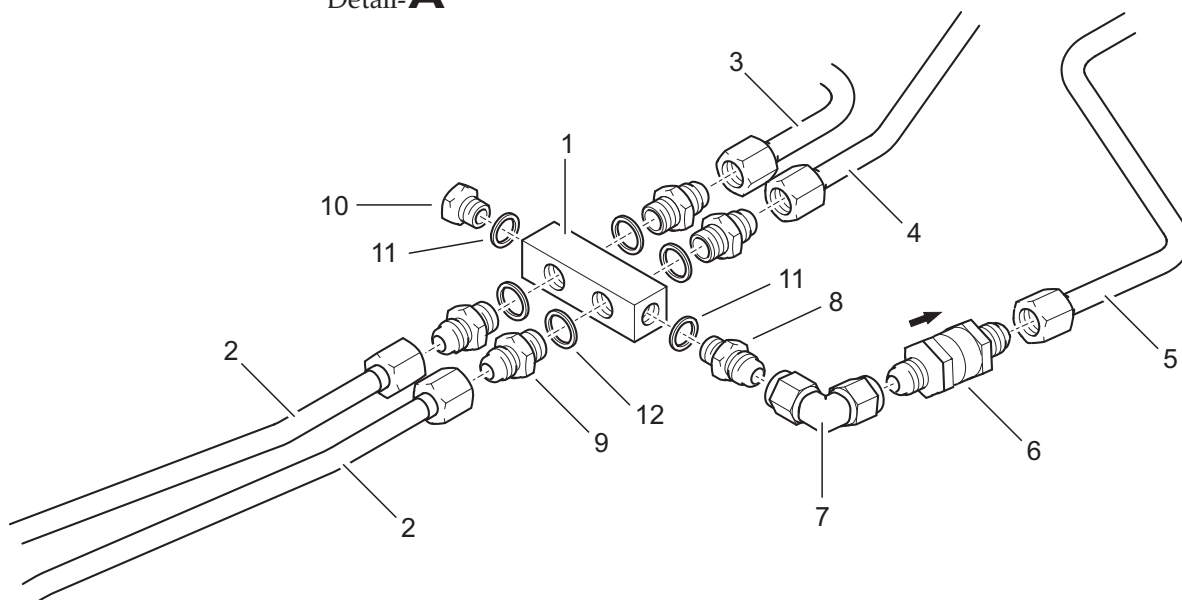
28-00-00

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Detail-**A**



EFFECTIVITY

Aircraft equipped
with Rotax 912iS

Fuel System - Fuselage
Figure 6

28-00-00

Page 12

19.11.25

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
6			Fuel System - Fuselage	Rotax 912iS
1	1	AT01-8000-105	fuel manifold block	
2	2	AT01-8000-020	fuel supply / return line manifold / firewall	
3	1	AT01-8010-022	fuel supply line pumps / manifold	
4	1	AT01-8020-017	fuel return line manifold / selector	
5	1	AT01-8020-019	bypass line fine selector	
6	1	AT01-8000-104	check valve (0,8-1,2 bar)	
7	1	AT01-4520-365	elbow fitting (size 6)	
8	1	AT01-4520-369	fitting (M12 / size 6)	
9	4	AT01-4520-378	fitting (M14 / size 6)	
10	1	AT01-4520-382	plug (M12)	
11	2	1807603A_12x16x1,5_Al	sealing washer (aluminium / DIN 7603 A 12x16x1,5)	
12	4	1807603A_14x18x1,5_Al	sealing washer (aluminium / DIN 7603 A 14x18x1,5)	

- Item not illustrated

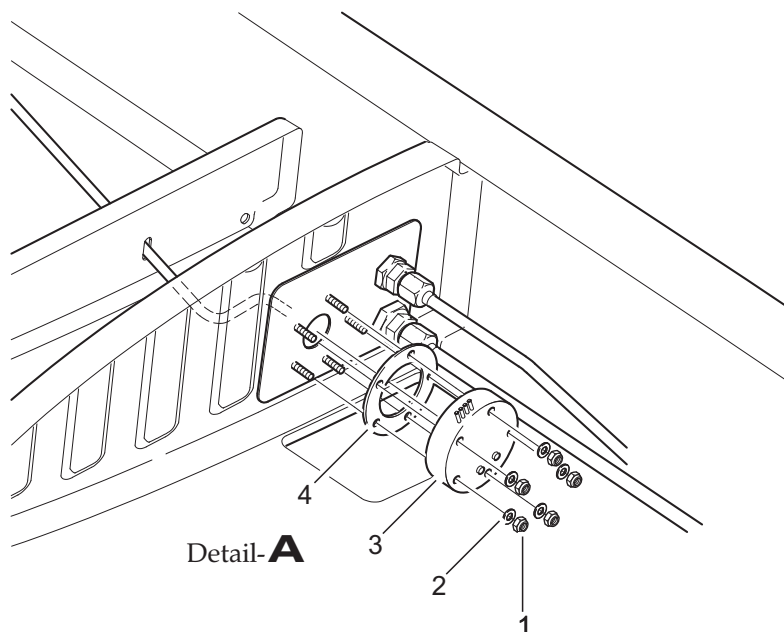
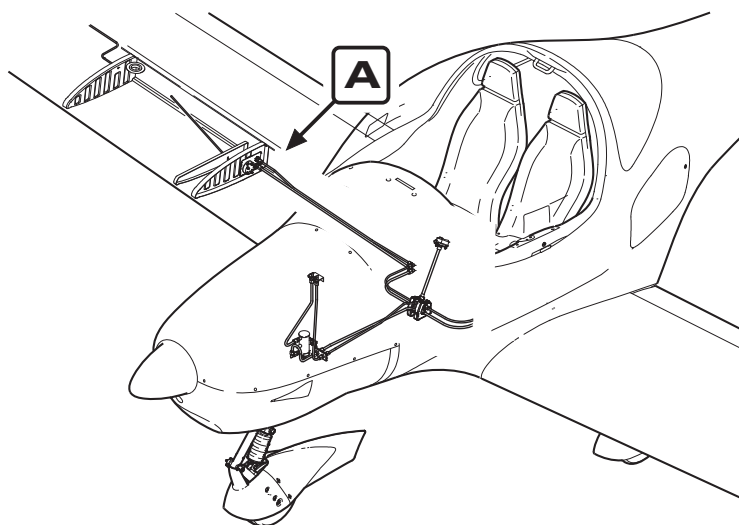
Fuel System - Fuselage
Figure 6

28-00-00

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**FUEL
INDICATING**



EFFECTIVITY

101 - 250

Fuel Quantity Indication
Figure 1A

28-40-00

Page 2A

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1A			Fuel Quantity Indication	101 - 250
1	5	1800985_M5	locknut (DIN 985 M5)	
2	5	1800125_5,3	washer (DIN 125 5,3x10)	
3	1	AT01-8030-120	fuel level sender RH (with potentiometer for calibration)	(Type 1)
	1	AT01-8030-124	fuel level sender RH (without potentiometer for calibration)	(Type 1)
	1	AT01-8030-130	fuel level sender "NGF" RH (with potentiometer for calibration)	(Type 2)
	1	AT01-8030-132	fuel level sender "NGF" RH (w/o potentiometer for calibration)	(Type 2)
4	1	AT01-8030-111	gasket	
-5	1	AT01-8030-121	fuel level sender LH (with potentiometer for calibration)	(Type 1)
	1	AT01-8030-125	fuel level sender LH (without potentiometer for calibration)	(Type 1)
	1	AT01-8030-131	fuel level sender "NGF" LH (with potentiometer for calibration)	(Type 2)
	1	AT01-8030-133	fuel level sender "NGF" LH (w/o potentiometer for calibration)	(Type 2)
6	1	AT01-7030-200	fuel pressure sensor	

Notes:

Two different types of capacitive fuel level indicating systems are in use. The systems are not compatible to each other and require specific fuel level senders and gauges:

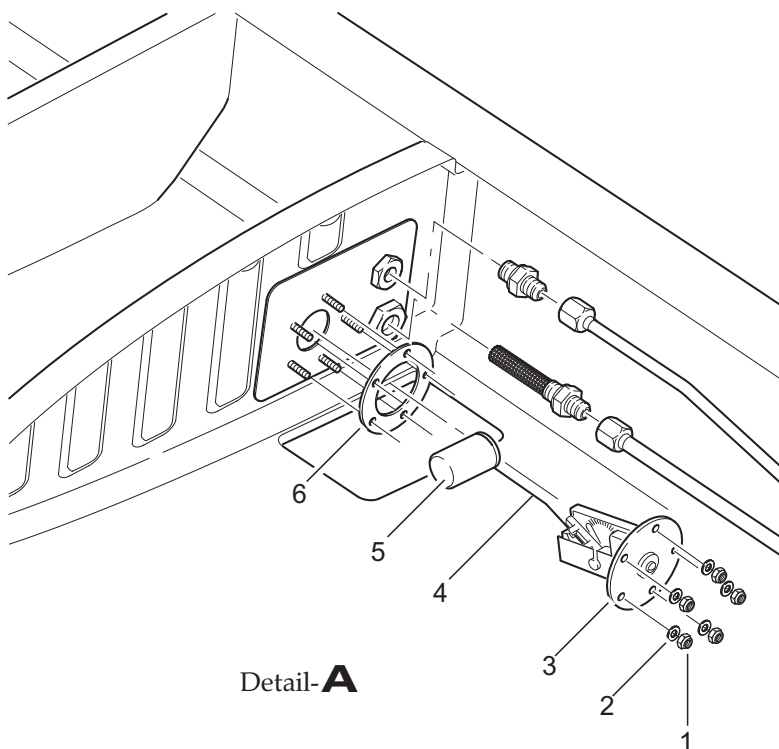
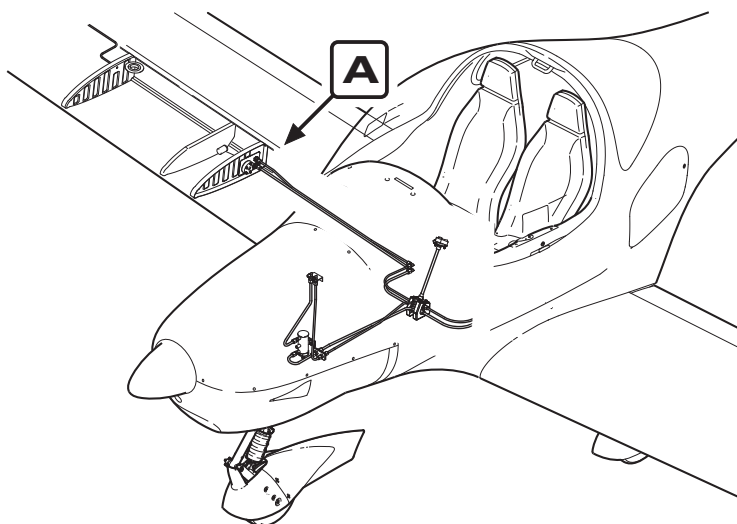
- Type 1: S/N AT01-101 up to AT01-160 (may differ due to modifications)

This type of sender may only be used in conjunction with the fuel gauge AT01-2840-122.

- Type 2: S/N AT01-161 up to AT01-250 (may differ due to modifications)

This type of sender may only be used in conjunction with the fuel gauges AT01-2840-202 or AT01-2840-203.

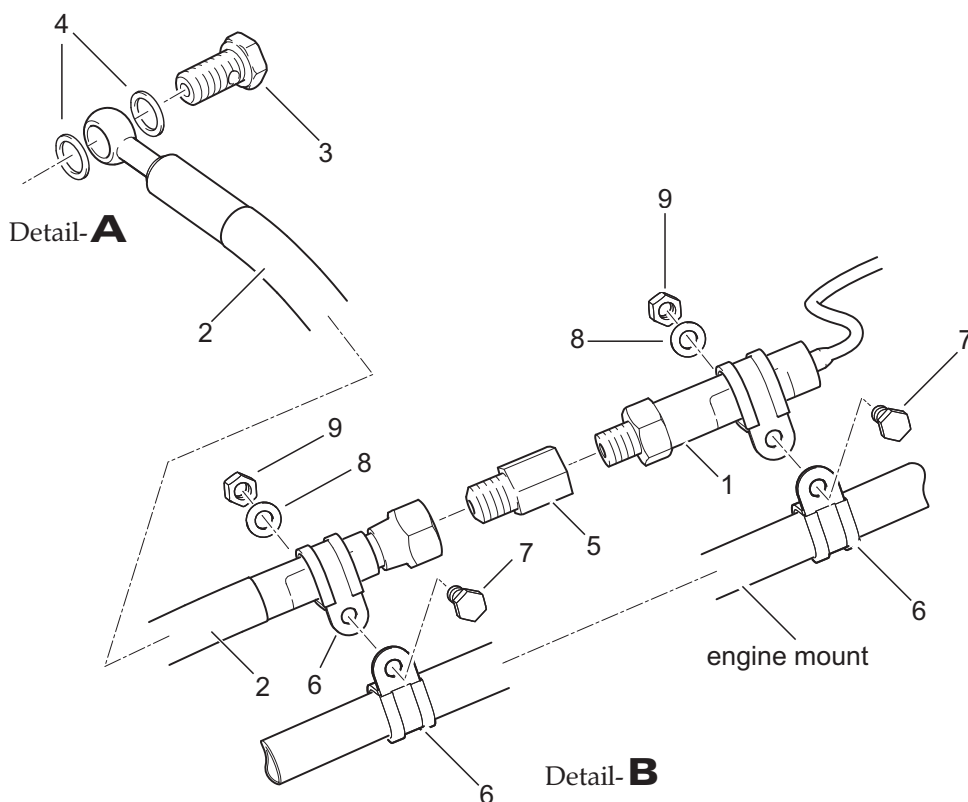
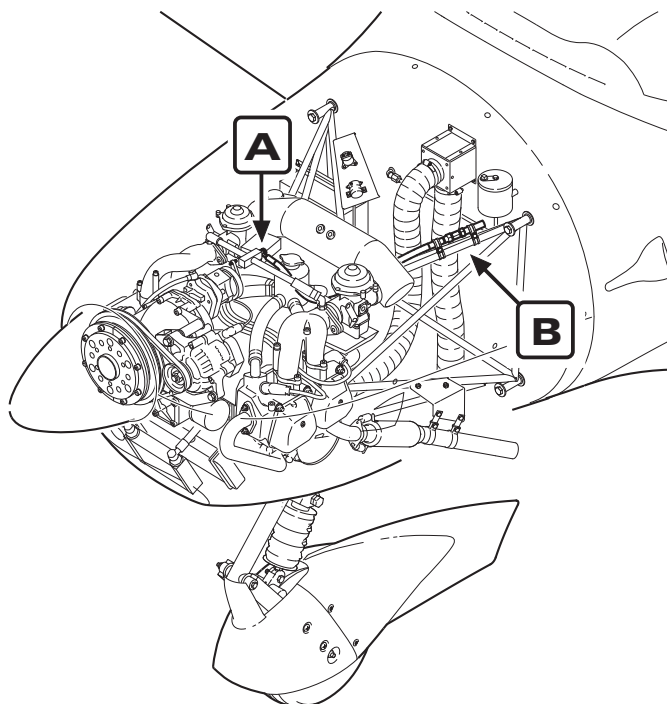
The fuel level senders with calibration potentiometers may be replaced by those without potentiometers and vice versa.
For example: AT01-8030-120 may be replaced by AT01-8030-124, but is not compatible to AT01-8030-130 or AT01-8030-132.



Detail-A

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1B			Fuel Quantity Indication	251 - 999
1	5	1800985_M5	locknut (ISO 10511 M5)	
2	5	1800125_5,3	washer (ISO 7089 5,3x10)	
3	1	AT01-8030-174	fuel level sender RH	
4	1	AT01-8030-178	lever / shepherds crook (for use without calibration module)	251 - 326 / 1)
		AT01-8030-186	lever / shepherds crook (for use with calibration module)	251 - 326 / 1)
		AT01-8030-187	lever / shepherds crook (replaced by 8030-189 / -190)	327 - 999
		AT01-8030-189	lever / shepherds crook RH (including fixed float)	327 - 999
		AT01-8030-190	lever / shepherds crook LH (including fixed float)	327 - 999
5	1	AT01-8030-179	float (for levers AT01-8030-178 / -186 / -187)	
6	1	AT01-8030-111	gasket	
-7	1	AT01-8030-173	fuel level sender LH	

1) The calibration module is installed on the back of the fuel gauge. Refer to 77-00-00 and SI-AT01-018 (annex 12) for further information. (If a MVP-50 / G3X is installed, no calibration module is needed.)



EFFECTIVITY

Aircraft equipped
with Rotax 912S &
E.I. MVP-50

Fuel Pressure Indication
Figure 2A

28-40-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2A			Fuel Pressure Indication	Rotax 912S & E.I. MVP-50
1	1	AT01-2840-208	fuel pressure transducer PT-30GA	
2	1	AT01-7030-004	fuel hose fuel manifold / pressure transducer	
3	1	AT01-7030-209	restricting orifice	
4	2	1807603A_10x13,5x1_Al	sealing washer (aluminium / DIN 7603 A 10x13,5x1)	
5	1	AT01-4520-311	fitting 7/16" UNF - 1/8" NPT	
6	3	AT01-4520-499	pipe clamp	
7	2	1800933_M5x14	bolt (ISO 4017 M5x14 8.8)	
8	2	1800125_5,3	washer (ISO 7089 5,3x10)	
9	2	1800985_M5	locknut (ISO 10511 M5)	

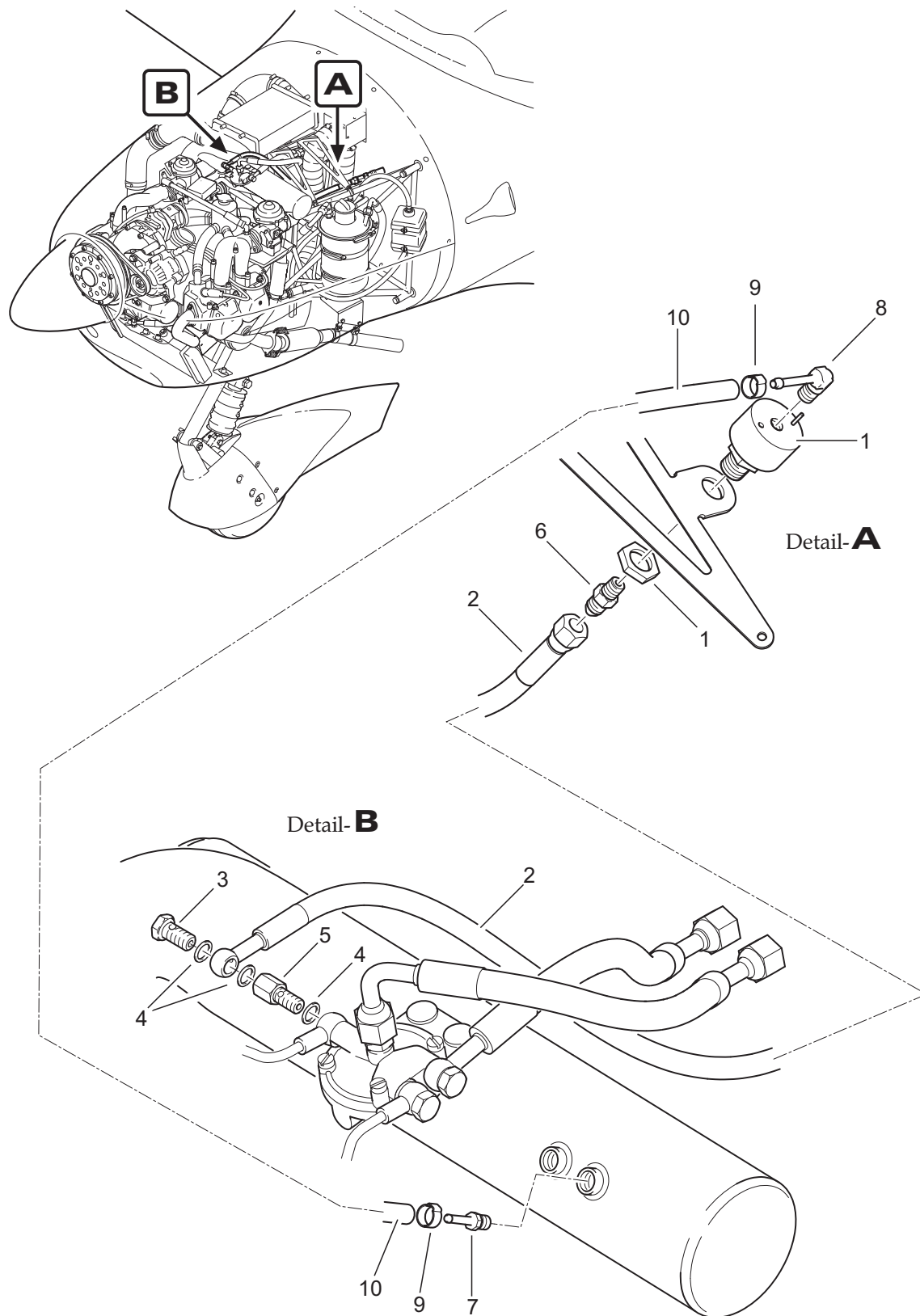
- Item not illustrated

Fuel Pressure Indication
Figure 2A

28-40-00

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EFFECTIVITY

Aircraft equipped
with Rotax 914F &
Garmin G3X

Fuel Pressure Indication
Figure 2B

28-40-00

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2B

Fuel Pressure Indication

Rotax 914F &
Garmin G3X

1	1	AT01-2840-242	fuel pressure sensor (UMA T1EU07D)
2	1	AT01-7030-007	fuel hose pressure transducer
3	1	AT01-7030-209	restricting orifice
4	3	AT01-7080-160	sealing washer
5	1	AT01-7030-211	adapter
6	1	AT01-4520-235	fitting 7/16" UNF - 1/8" NPTF
7	1	AT01-4520-049	fitting 1/8" NPT
8	1	AT01-4520-377	elbow 1/8" NPT
9	2	AT01-4520_COBRA_11,0/7W4	pipe clamp
10	0,5m	AT01-4520-422	hose

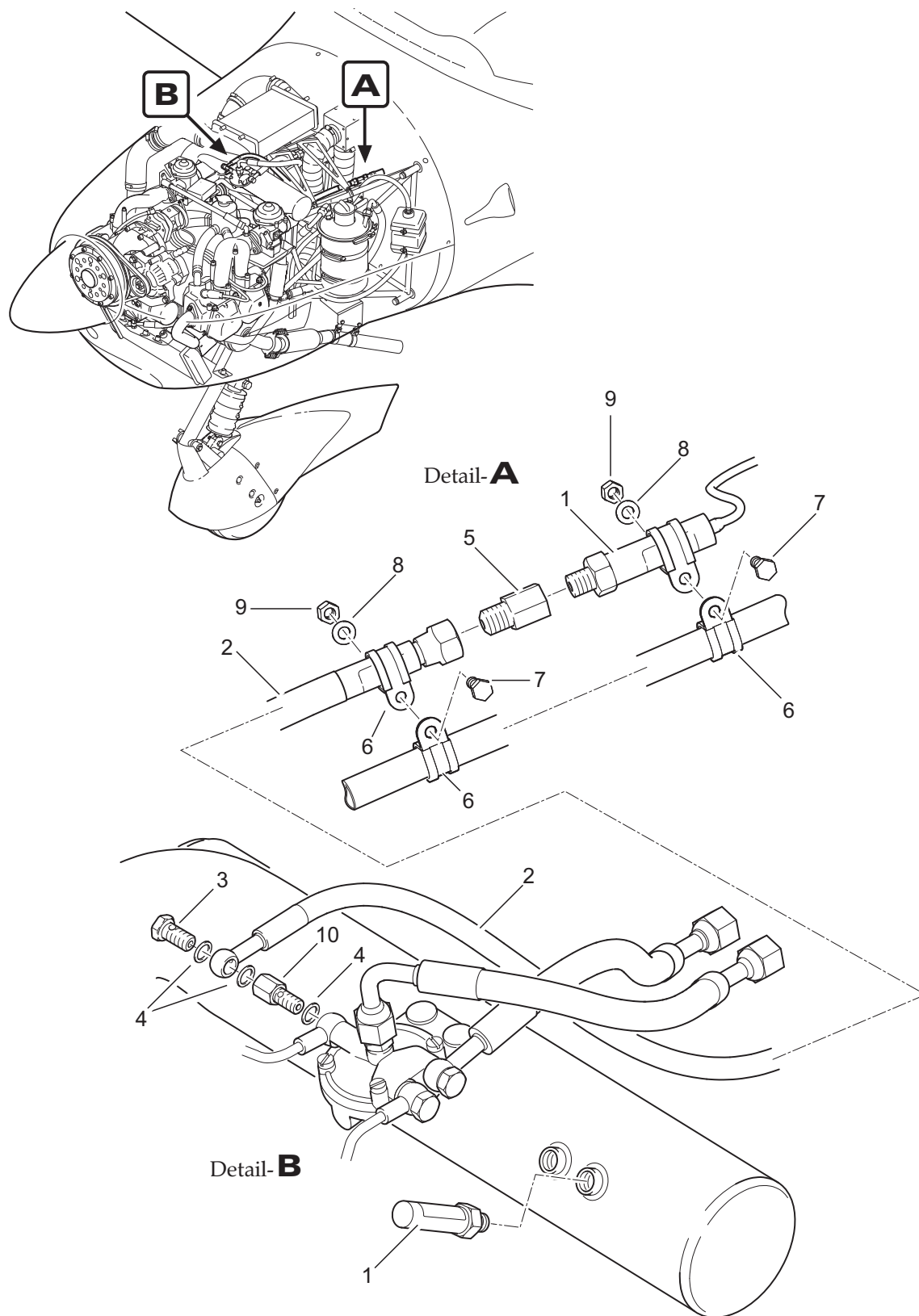
- Item not illustrated

Fuel Pressure Indication
Figure 2B

28-40-00

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EFFECTIVITY

Aircraft equipped
with Rotax 914F &
E.I. MVP-50

Fuel Pressure Indication
Figure 2C

28-40-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2C			Fuel Pressure Indication	Rotax 914F & E.I. MVP-50
1	2	AT01-2840-208	fuel pressure transducer PT-30GA	
2	1	AT01-7030-007	fuel hose pressure transducer	
3	1	AT01-7030-209	restricting orifice	
4	3	AT01-7080-160	sealing washer	
5	1	AT01-4520-311	fitting 7/16" UNF - 1/8" NPT	
6	3	AT01-4520-499	pipe clamp	
7	2	1800933_M5x14	bolt (ISO 4017 M5x14 8.8)	
8	2	1800125_5,3	washer (ISO 7089 5,3x10)	
9	2	1800985_M5	locknut (ISO 10511 M5)	
10	1	AT01-7030-211	adapter	

- Item not illustrated

Fuel Pressure Indication
Figure 2C

28-40-00

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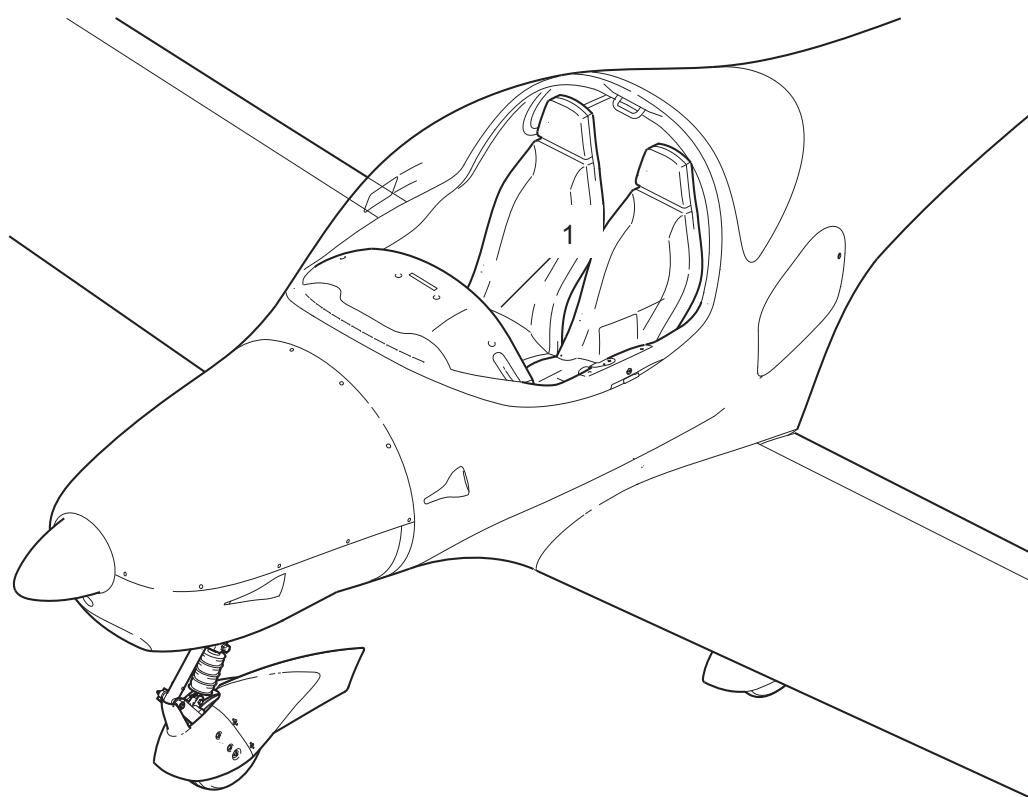
AQUILA AT01
ILLUSTRATED PARTS CATALOG

CHAPTER 31
INDICATING / RECORDING
SYSTEMS

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Misc. Indicators / Indicating Devices	31-00-00	4	

INDICATING / RECORDING SYSTEMS
GENERAL





AQUILA AT01

ILLUSTRATED PARTS CATALOG

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Indicating / Recording Systems - General	
	1		Misc. Indicators / Indicating Devices (refer to 31-00-00, figure 2 for details)	

- Item not illustrated

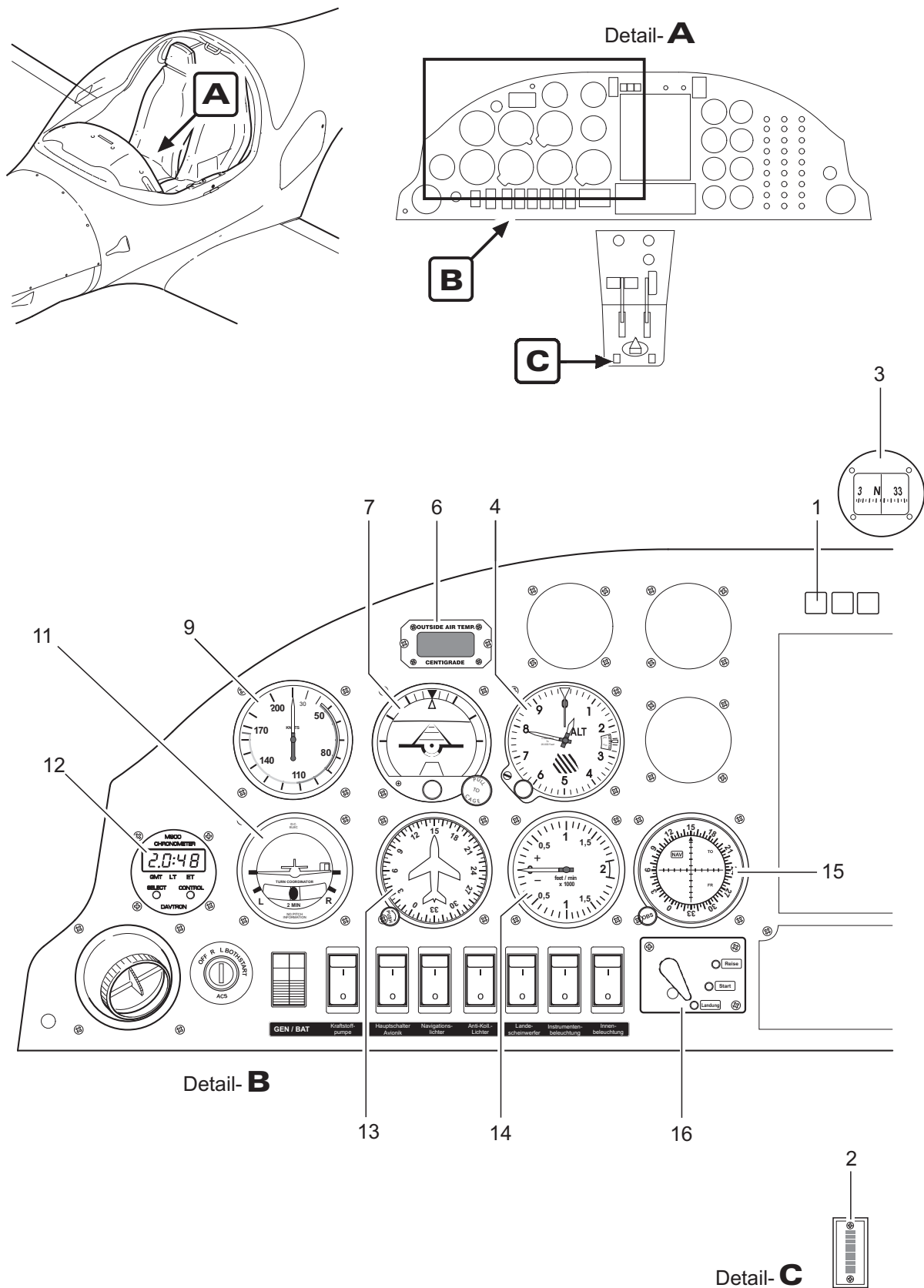


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			Misc. Indicators / Indicating Devices	
1	1	AT01-4530-802	warning light red	
	1	AT01-4530-804	warning light yellow (Pitot-heating)	
2	1	AT01-2840-181	trim position indicator (instrument panel)	100 - 299 / 1)
		AT01-8220-024-096	trim position indicator (center console)	300 - 999 / 1)
3	1	AT01-2840-142	compass Airpath C2400-L4P (northern hemisphere)	
	1	AT01-2840-173	compass Airpath C2400-L4P (southern hemisphere)	
4	1	AT01-2840-130	altimeter Mid Continent 5934PM-3 (Ø 80mm)	
	1	AT01-2840-170	altimeter Mid Continent 5934PM-3 (Ø 80mm, lighted)	
-5	1	AT01-2840-128	altimeter Winter 4 FGH 40 (Ø 57mm / backup instrument only)	
	1	AT01-2840-145	altimeter Mid Continent MD15-212 (Ø 57mm, lighted)	
	1	AT01-2840-182	altimeter Mid Continent 5237M (Ø 57mm, lighted)	
6	1	AT01-2840-200	outside air temperature indicator Davtron	
7	1	AT01-2840-153	attitude gyro Mid Continent 4300-311 (Ø 80mm, lighted)	
-8	1	AT01-2840-161	attitude gyro Mid Continent 4200-11 (Ø 57mm, lighted)	
	1	AT01-2840-158	attitude gyro RC Allen 2600-2 (Ø 57mm)	
9	1	AT01-2840-108	airspeed indicator Mid Continent 8025 (Ø 80mm)	
-10	1	AT01-2840-148	airspeed indicator Winter 7 FMS 5 (Ø 57mm)	
11	1	AT01-2840-156	turn coordinator Mid Continent MD1394 (Ø 80mm)	
12	1	AT01-2840-198	chronometer Davtron (Ø 57mm)	
13	1	AT01-2840-169	directional gyro Mid Continent MD3300-10 (Ø 80mm)	
	1	AT01-2840-157	directional gyro Mid Continent MD3300-11 (Ø 80mm, lighted)	
14	1	AT01-2840-100	vertical speed indicator UMA T8-310-20 (Ø 80mm)	
15	1	AT01-8730-204	course deviation indicator (CDI) Garmin GI-106B (Ø 80mm, lighted)	
16	1	AT01-8220-069	flap switch / indicator (small mounting plate)	2)
	1	AT01-8220-080	flap switch / indicator (larger mounting plate)	2)
	1	AT01-8220-081	adapter cable flap switch (retrofit from old switch AT01-8220-067)	2)
-17	1	AT01-8250-106	trim switch	

1) S/N AT01-100 up to 364: Refer to SI-AT01-018 (annex 23) for a retrofit of the new trim position indicator.

2) Refer to SI-AT01-018 (annex 25) for a retrofit of the new flap switch / indicator.

- Item not illustrated



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ILLUSTRATED PARTS CATALOG

CHAPTER 32
LANDING GEAR

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Main Gear Fairing Installation	32-10-00	4B	"Soft Field"
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Main Gear Wheel Installation	32-10-00	8A	Beringer
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Nose Gear Fairing Installation	32-20-00	4B	"Soft Field"
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Nose Gear Strut Installation	32-20-00	8	
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Wheel Assembly	32-40-00	4B	Ber. RF-018/RA-014
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Brake System Installation - Front	32-40-00	6A	Beringer
Brake System Installation - Front	32-40-00	6B	Cleveland/Grove
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Brake System Installation - Rear	32-40-00	8B	Cleveland/Grove
Brake Caliper Installation	32-40-00	10A	Beringer
Brake Caliper Installation	32-40-00	10B	Cleveland/Grove

MAIN GEAR

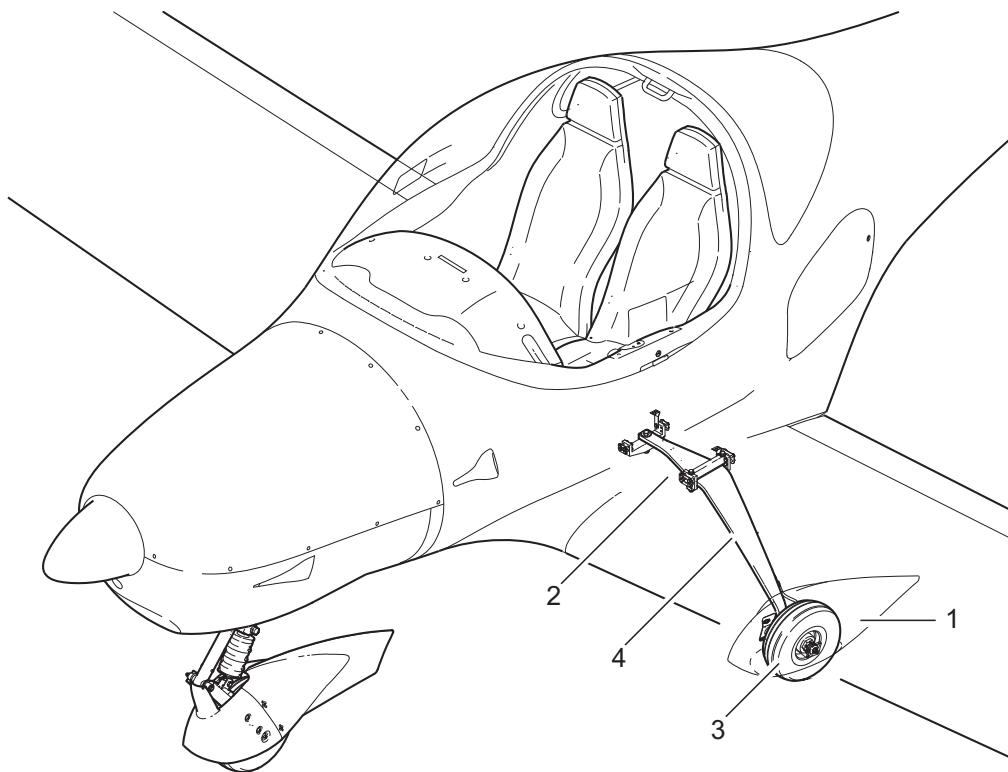
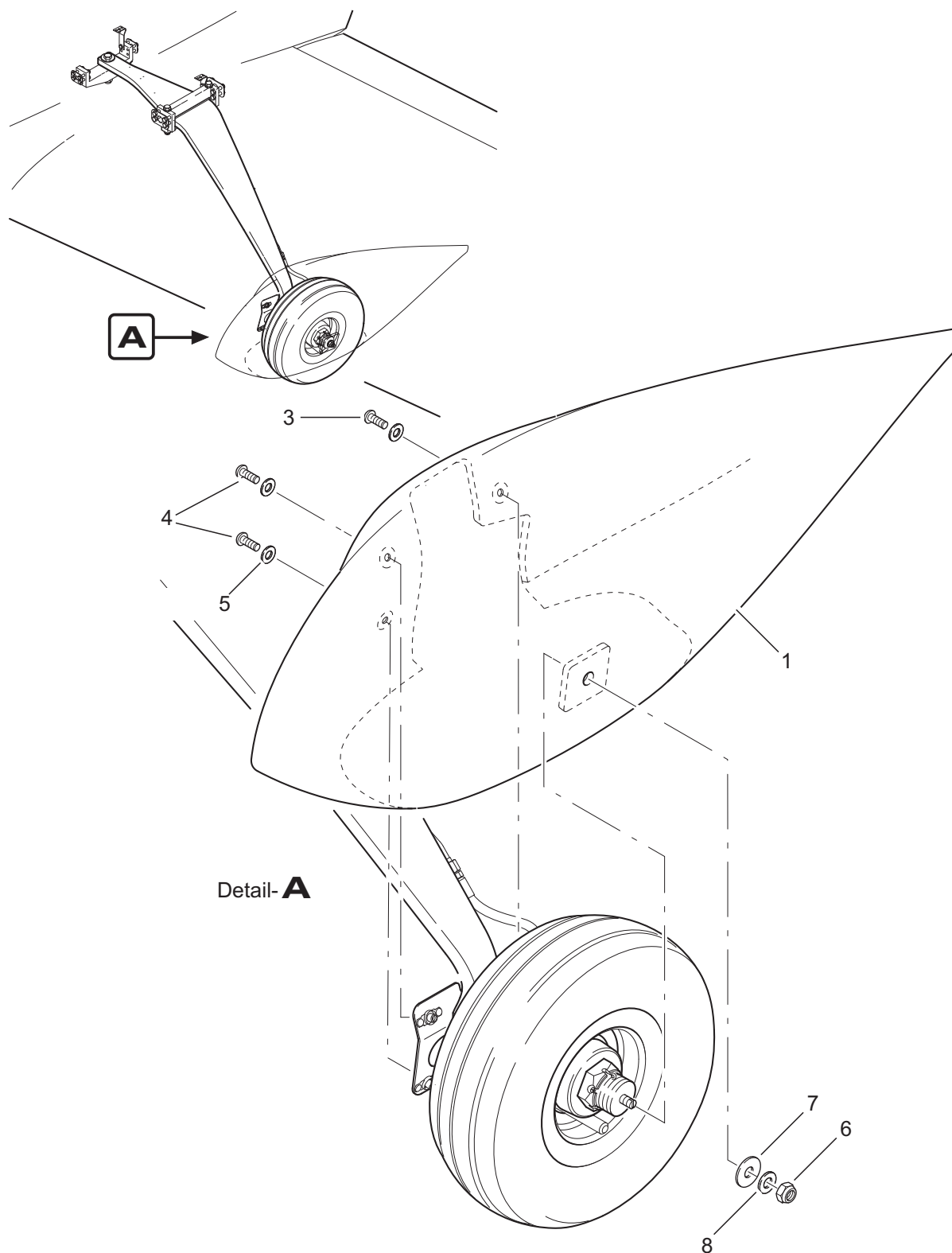


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Main Gear - General	
	1		Main Gear Fairing Installation (refer to 32-10-00, figure 2A for details)	"High Speed"
	-1		Main Gear Fairing Installation (refer to 32-10-00, figure 2B for details)	"Soft Field"
	2		Main Gear Leg Installation (refer to 32-10-00, figure 3 for details)	
	-3		Main Gear Wheel Installation (refer to 32-10-00, figure 4A for details)	Beringer
	3		Main Gear Wheel Installation (refer to 32-10-00, figure 4B for details)	Cleveland/ Grove
	4		Main Gear Leg Protection (refer to 32-10-00, figure 5 for details)	

- Item not illustrated



EFFECTIVITY

Aircraft equipped
with main gear
fairings "High Speed"

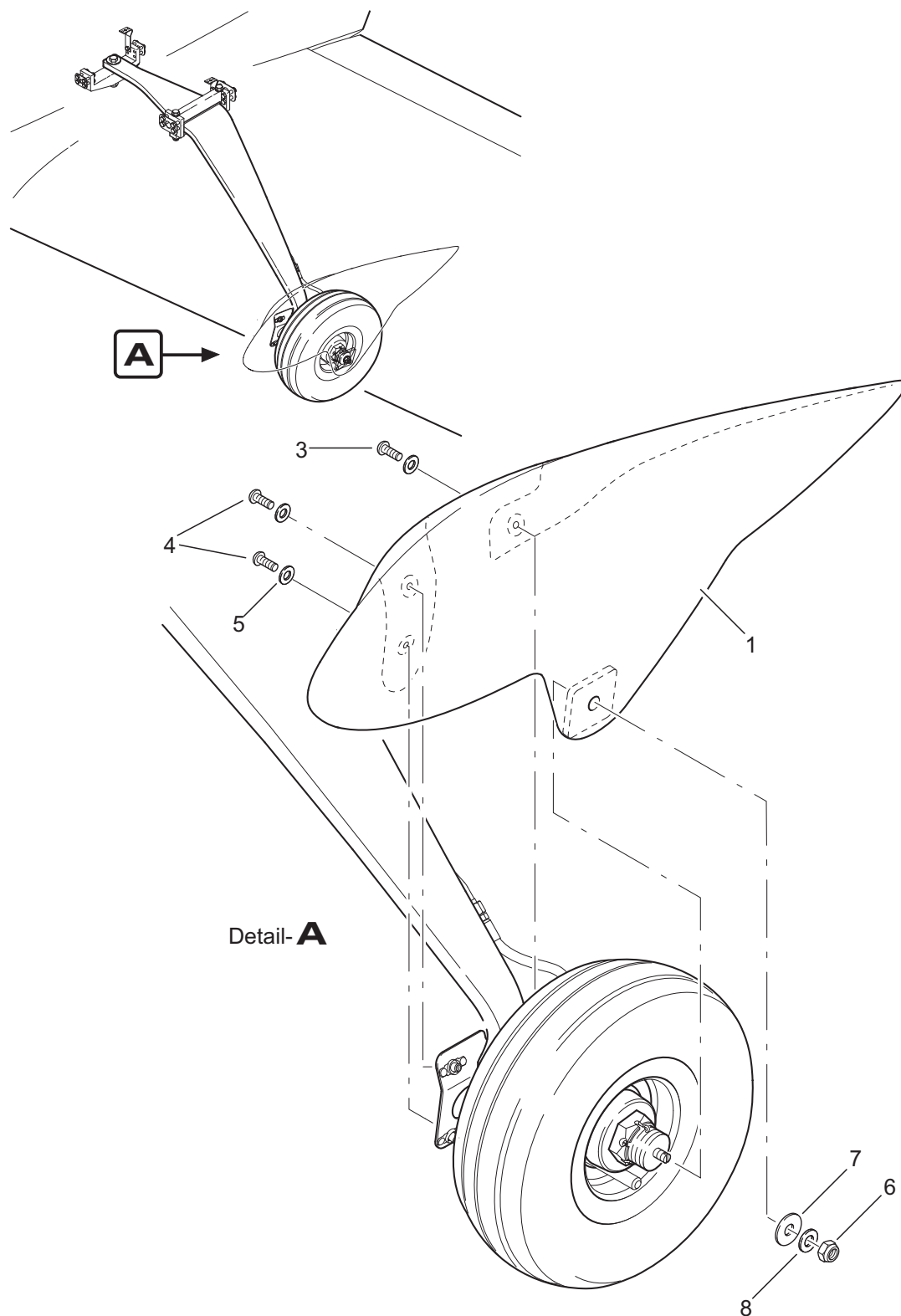
Main Gear Fairing Installation
Figure 2A

32-10-00

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31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2A			Main Gear Fairing Installation	"High Speed"
1	1	AT01-5030-001-070	main gear fairing "High Speed" LH	
-2	1	AT01-5030-002-070	main gear fairing "High Speed" RH	
<u>Option A: Wheel fairing installation with steel washers</u>				steel washers
3	1	1800933_M6x20	bolt (ISO 4017 M6x20 8.8)	
4	2	1800933_M6x16	bolt (ISO 4017 M6x16 8.8)	
5	3	1809021_6,4	washer (ISO 7093 6,4x18)	
6	1	1800985_M8	locknut (ISO 10511 M8)	
7	1	1809021_8,4	washer (ISO 7093 8,4x24)	
8	-	-	-	
<u>Option B: Wheel fairing installation with polyamide washers</u>				PA washers
3	1	1807380_6x20 ULF	bolt (ISO 7380 M6x20 ULF)	
4	2	1807380_6x16 ULF	bolt (ISO 7380 M6x16 ULF)	
5	3	1809021_6,4_PA	washer (ISO 7093 6,4x18 polyamide)	
6	1	1800985_M8	locknut (ISO 10511 M8)	
7	1	1809021_8,4_PA	washer (ISO 7093 8,4x24 polyamide)	
8	1	1800125_8,4	washer (ISO 7089 8,4x16)	
<u>Service Kits & Tools</u>				
		AT01-5030-001-096	main gear fairing "High Speed" LH (incl. mounting material)	
		AT01-5030-002-096	main gear fairing "High Speed" RH (incl. mounting material)	

- Item not illustrated



Detail- **A**

EFFECTIVITY

Aircraft equipped
with main gear
fairings "Soft Field"

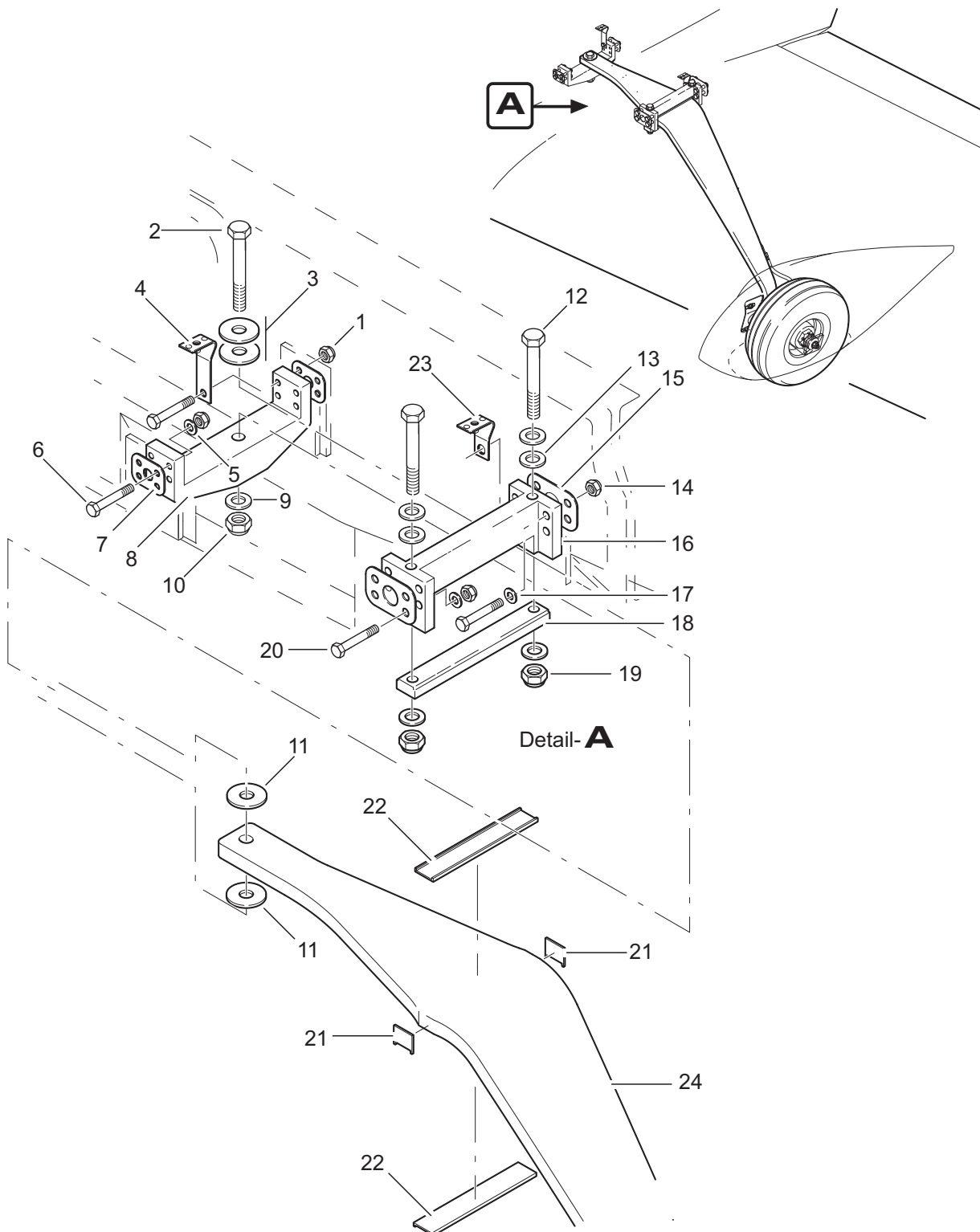
Main Gear Fairing Installation
Figure 2B

32-10-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2B			Main Gear Fairing Installation	"Soft Field"
1	1	AT01-5030-007-070	main gear fairing "Soft Field" LH	
-2	1	AT01-5030-008-070	main gear fairing "Soft Field" RH	
<u>Option A: Wheel fairing installation with steel washers</u>				steel washers
3	1	1800933_M6x20	bolt (ISO 4017 M6x20 8.8)	
4	2	1800933_M6x16	bolt (ISO 4017 M6x16 8.8)	
5	3	1809021_6,4	washer (ISO 7093 6,4x18)	
6	1	1800985_M8	locknut (ISO 10511 M8)	
7	1	1809021_8,4	washer (ISO 7093 8,4x24)	
8	-	-	-	
<u>Option B: Wheel fairing installation with polyamide washers</u>				PA washers
3	1	1807380_6x20 ULF	bolt (ISO 7380 M6x20 ULF)	
4	2	1807380_6x16 ULF	bolt (ISO 7380 M6x16 ULF)	
5	3	1809021_6,4_PA	washer (ISO 7093 6,4x18 polyamide)	
6	1	1800985_M8	locknut (ISO 10511 M8)	
7	1	1809021_8,4_PA	washer (ISO 7093 8,4x24 polyamide)	
8	1	1800125_8,4	washer (ISO 7089 8,4x16)	
<u>Service Kits & Tools</u>				
		AT01-5030-007-096	main gear fairing "Soft Field" LH (incl. mounting material)	
		AT01-5030-008-096	main gear fairing "Soft Field" RH (incl. mounting material)	

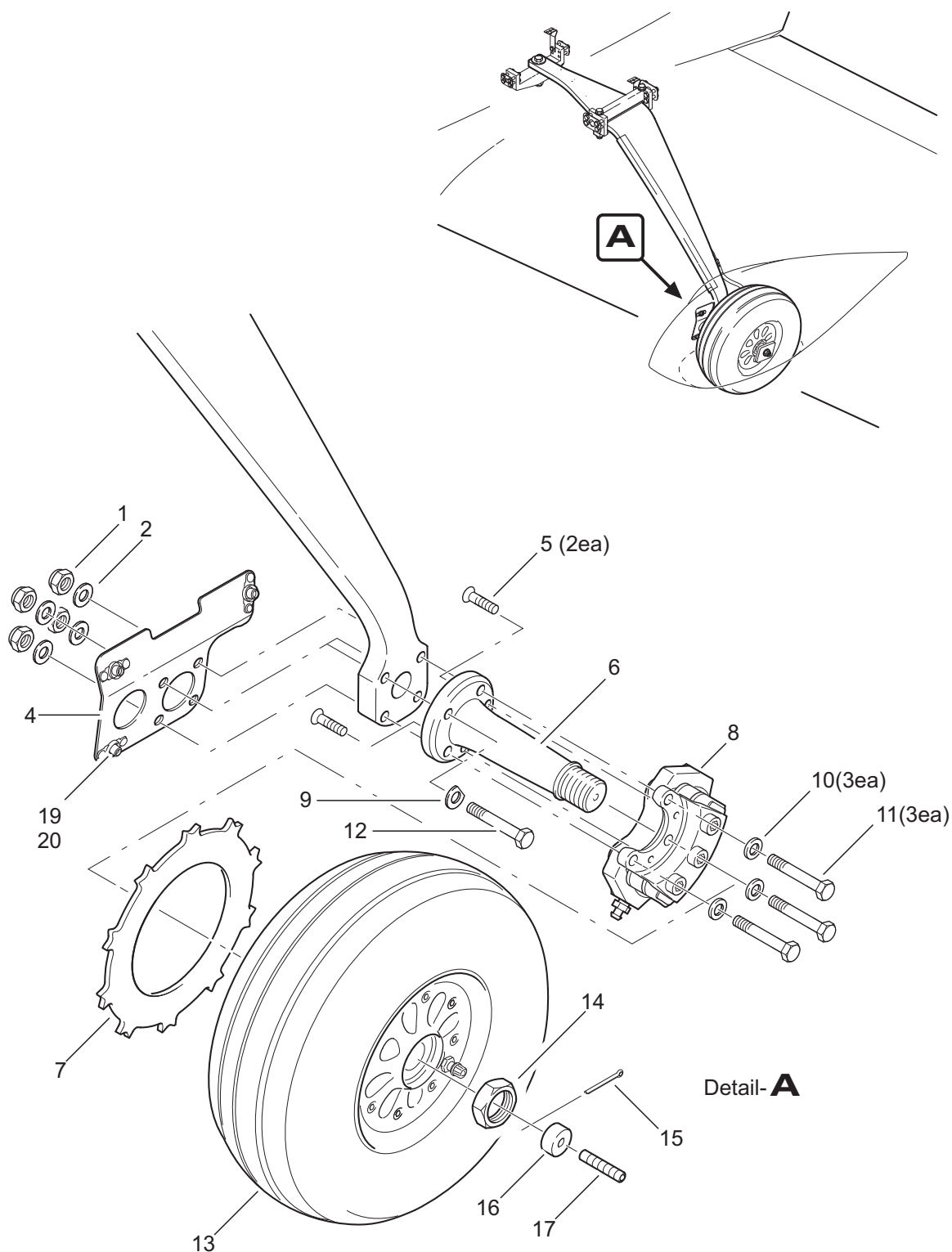
- Item not illustrated



Main Gear Leg Installation
Figure 3

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3			Main Gear Leg Installation	
1	8	1800985_M6	nut (ISO 10511 M6)	
2	1	1800931_M12x85	bolt (ISO 4014 M12x85 8.8)	
3	4	1800440_13,5	washer (ISO 7094 13,5x44)	
4	1	AT01-2160-015	central suspension for landing gear duct cover	
5	7	1800125_6,4	washer (ISO 7089 6,4x12)	
6	8	1800931_M6x45	bolt (ISO 4014 M6x45 8.8)	
7	2	AT01-5050-102	bearing plate (inner yoke)	
8	1	AT01-5050-100	inner yoke	
9	1	1800125_13HV2	washer (ISO 7089 13x24)	
10	1	1800985_M12	locknut (ISO 10511 M12)	
11	2	1809021_13 Nylon	polyamide washer (ISO 7093 13x37)	
12	2	1800931_M10x90	bolt (ISO 4014 M10x90 8.8)	
13	6	1800125_10,5	washer (ISO 7089 10,5x20)	
14	8	1800985_M8	locknut (ISO 10511 M8)	
15	2	AT01-5050-110	bearing plate (outer yoke)	
16	1	AT01-5050-101	outer yoke	
17	7	1800125_8,4	washer (ISO 7089 8,4x16)	
18	1	AT01-5050-103	support bracket (outer yoke)	
19	2	1800985_M10	locknut (ISO 10511 M10)	
20	8	1800931_M8x50	bolt (ISO 4014 M8x50 8.8)	
21	2	AT01-5050-105	UHMW element 2	
22	2	AT01-5050-104	UHMW element 1	
23	1	AT01-2160-016	outer suspension for landing gear duct cover	
24	1	AT01-5010-202	main gear leg LH	
- 25	1	AT01-5010-201	main gear leg RH	

- Item not illustrated



EFFECTIVITY

Aircraft equipped
with Beringer wheels

Main Gear Wheel Installation
Figure 4A

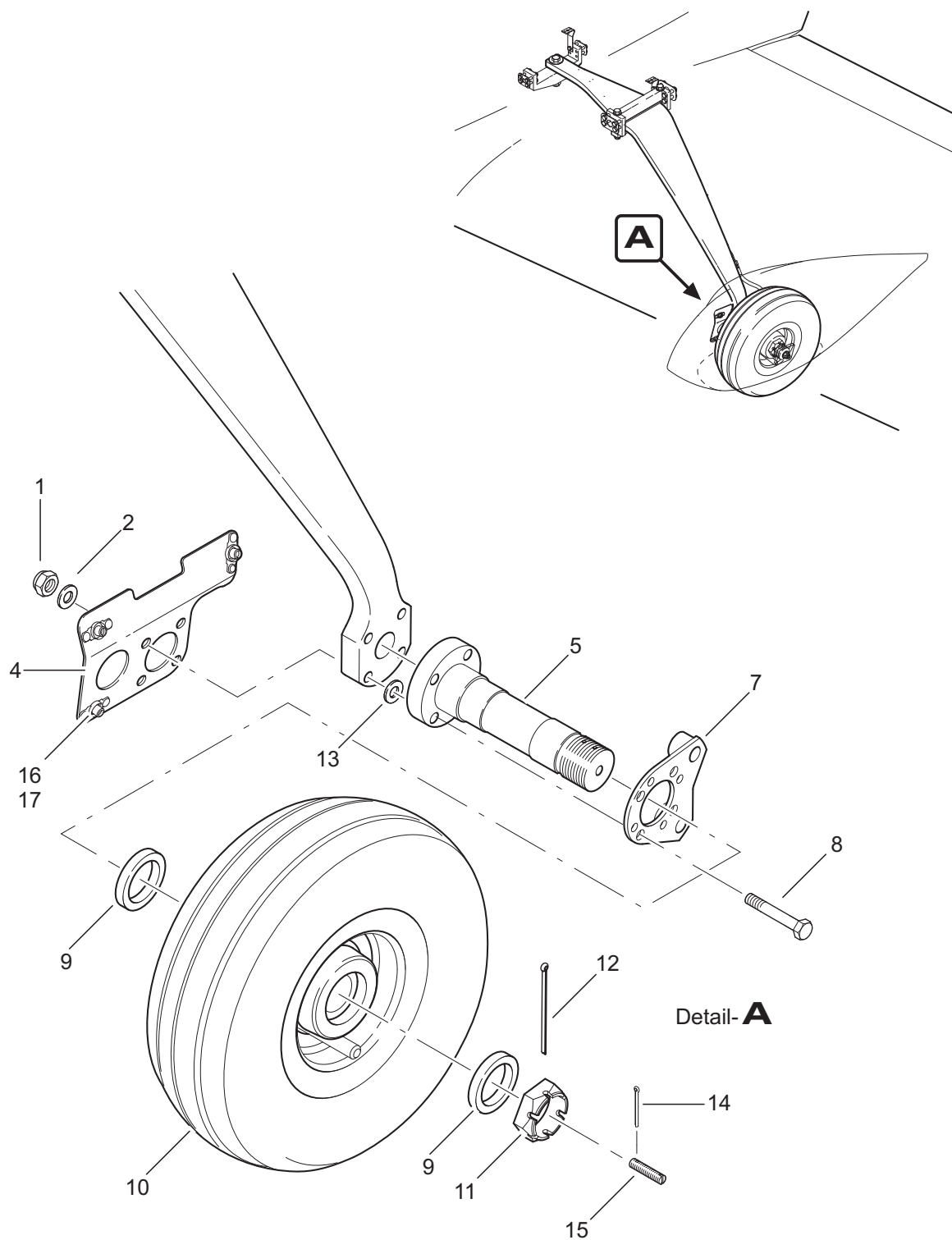
32-10-00

Page 8A

31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
4A			Main Gear Wheel Installation	Beringer
1	4	1800985_M8_10	locknut (ISO 10511 M8 class 10)	
2	4	1800125_8,4	washer (ISO 7089 8,4x16)	
- 3	1	AT01-5030-004	main gear fairing bracket RH	
4	1	AT01-5030-003	main gear fairing bracket LH	
5	2	AT01-5020-118	assembly screw	
6	1	AT01-5010-102	main landing gear axle (old version / replaced by AT01-5010-106)	
		AT01-5010-106	main landing gear axle (new version / replaces AT01-5010-102)	
7	1	AT01-5020-101	brake disc	
8	1	AT01-5020-033	brake caliper (modified)	
9	1	AT01-5010-104	washer	
10	3	1800988_8/1	adjusting washer (DIN 988 8x14x1)	
11	3	1809037_08050	bolt (LN 9037 M8x50)	
12	1	1809037_08044	bolt (LN 9037 M8x44)	
13	1	AT01-5040-004	main wheel Beringer RF-005	
			(incl. rim and tire / old version with central spacer / replaced by RF-018)	
		AT01-5040-005	main wheel Beringer RF-018	
			(incl. rim and tire / new version without central spacer / replaces RF-005)	
14	1	AT01-5010-103	axle nut	
15	1	1800094_2,5x28	split pin (ISO 1234 2,5x28)	
16	1	AT01-5030-109	fairing spacer	
17	1	1800913_M08x45	threaded pin (ISO 4026 M8x45)	
-18	1	AT01-1840-507	brake disc safety wire	
19	3	18029679M6	rivet nut (LN 29679 M6 / incl. in AT01-5030-003 & AT01-5030-004)	
20	6	1807337_3,2x6 ES/ES	rivet (ISO 15984 3,2x6 A2/A2 / incl. in AT01-5030-003 & AT01-5030-004)	

- Item not illustrated



EFFECTIVITY

Aircraft equipped
with Cleveland/
Grove wheels

Main Gear Wheel Installation
Figure 4B

32-10-00

Page 8B

31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
4B			Main Gear Wheel Installation	Cleveland/Grove
1	4	1800985_M8_10	locknut (ISO 10511 M8 class 10)	
2	4	1800125_8,4	washer (ISO 7089 d 8,4x16)	
- 3	1	AT01-5030-004	main gear fairing bracket RH	
4	1	AT01-5030-003	main gear fairing bracket LH	
5	1	AT01-5010-100	main landing gear axle	
- 6	1	AT01-5020-352	torque plate Cleveland RH	Cleveland
		AT01-5020-359	torque plate Grove RH	Grove
7	1	AT01-5020-351	torque plate Cleveland LH	Cleveland
		AT01-5020-358	torque plate Grove LH	Grove
8	8	1809037_08048	bolt (LN 9037 M8x48)	
9	2	AT01-5020-202	spacer bushing	
10	1	AT01-5040-001	main wheel Cleveland (incl. rim, tire and brake disc)	Cleveland
		AT01-5040-003	main wheel Grove (incl. rim, tire and brake disc)	Grove
11	1	AT01-5020-201	axle nut	
12	1	1800094_3,2x63	split pin (ISO 1234 3,2x63)	
13	AR	1800988_8/0,05	adjusting washer (as required)	
14	1	1800094_2x40	split pin (ISO 1234 2x40)	
15	1	AT01-5030-102	bolt	
16	3	18029679M6	rivet nut (LN 29679 M6 / incl. in AT01-5030-003 & AT01-5030-004)	
17	6	1807337_3,2x6 ES/ES	rivet (ISO 15984 3,2x6 A2/A2 / incl. in AT01-5030-003 & AT01-5030-004)	

- Item not illustrated

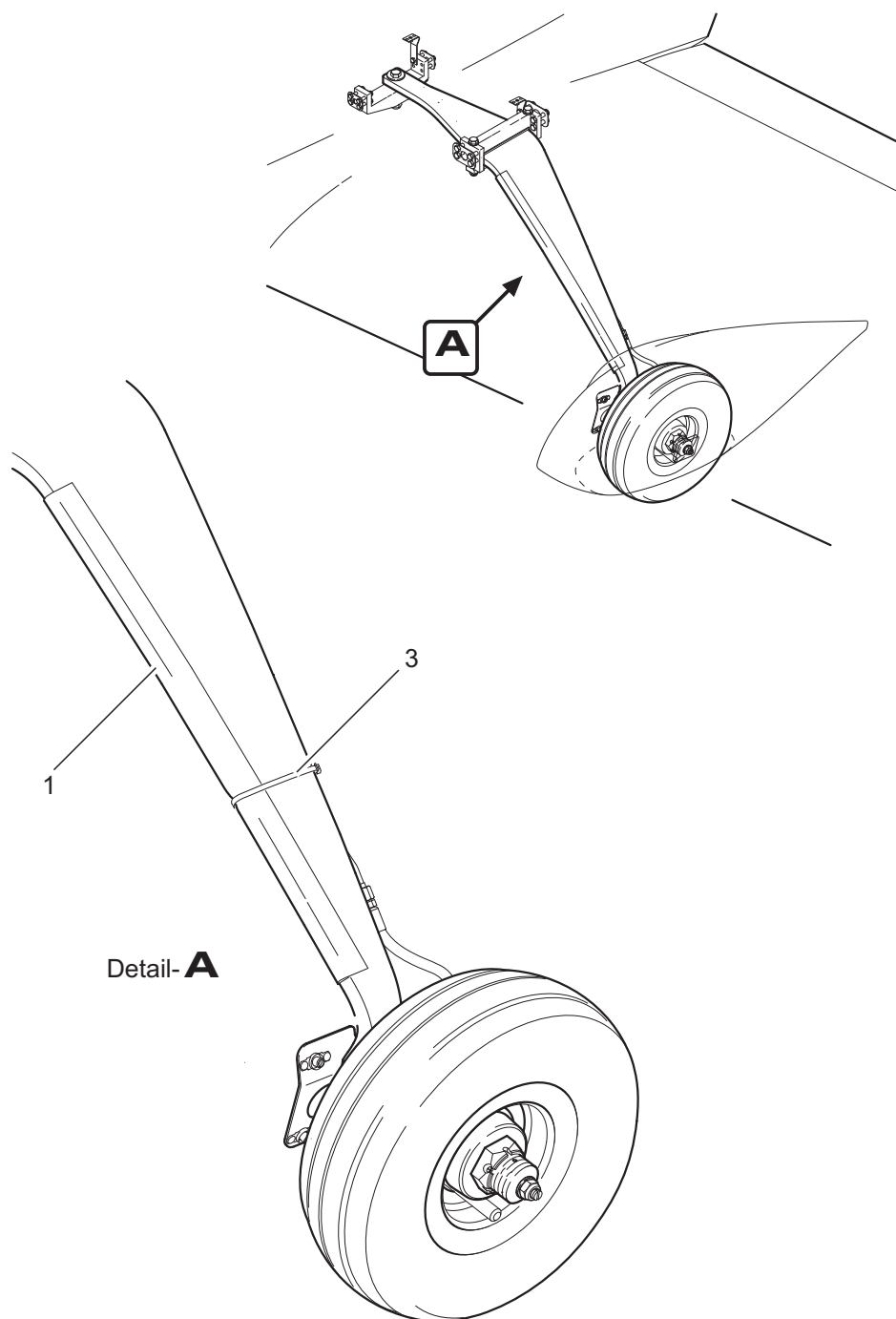


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
5			Main Gear Leg Protection	
1	1	AT01-5030-104	leg protection	
-2	AR	AT01-1960-176	construction glue	
3	1	AT01-4530-910	tightening strap	
-4	AR	AT01-1440-178	leg protection foil (self-adhesive / alternative to items 1-3)	

NOSE GEAR

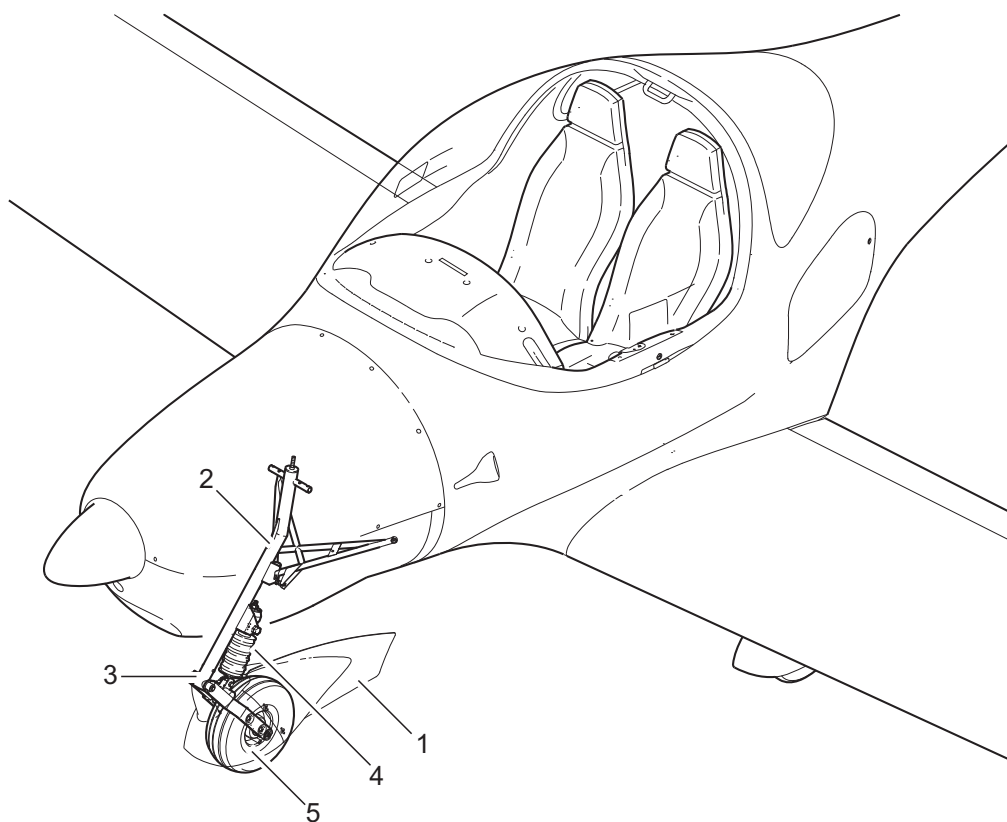
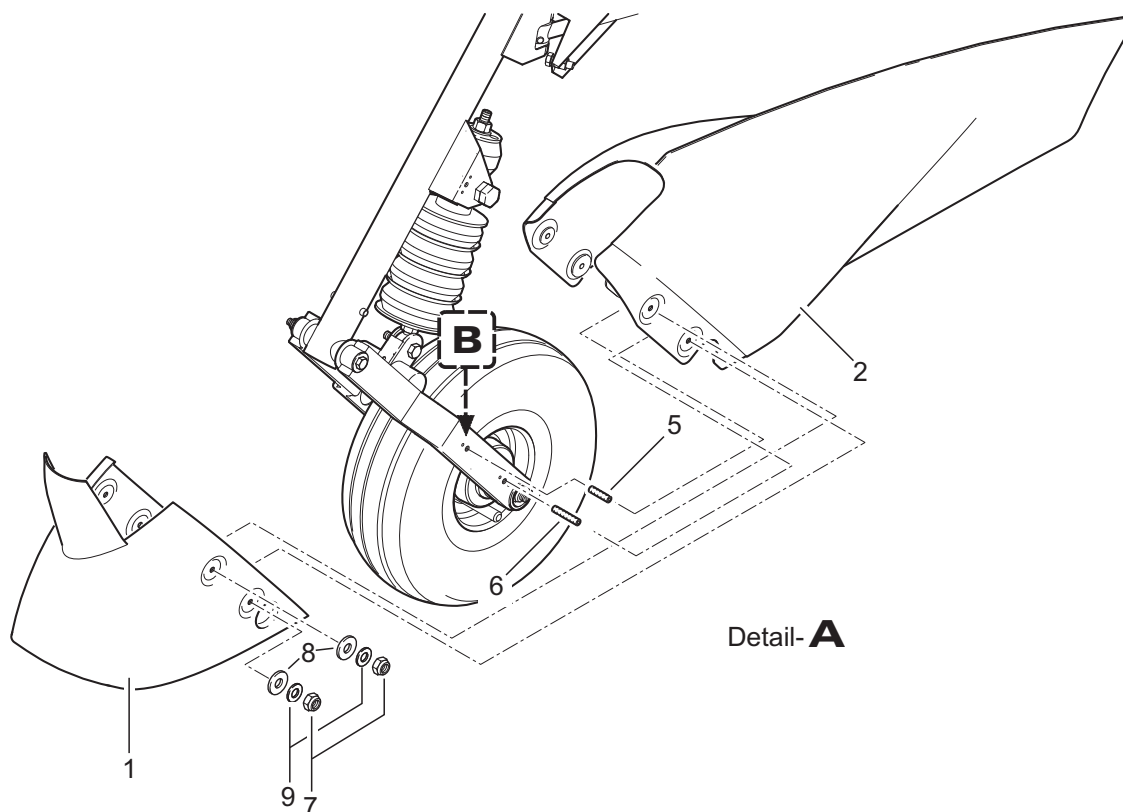
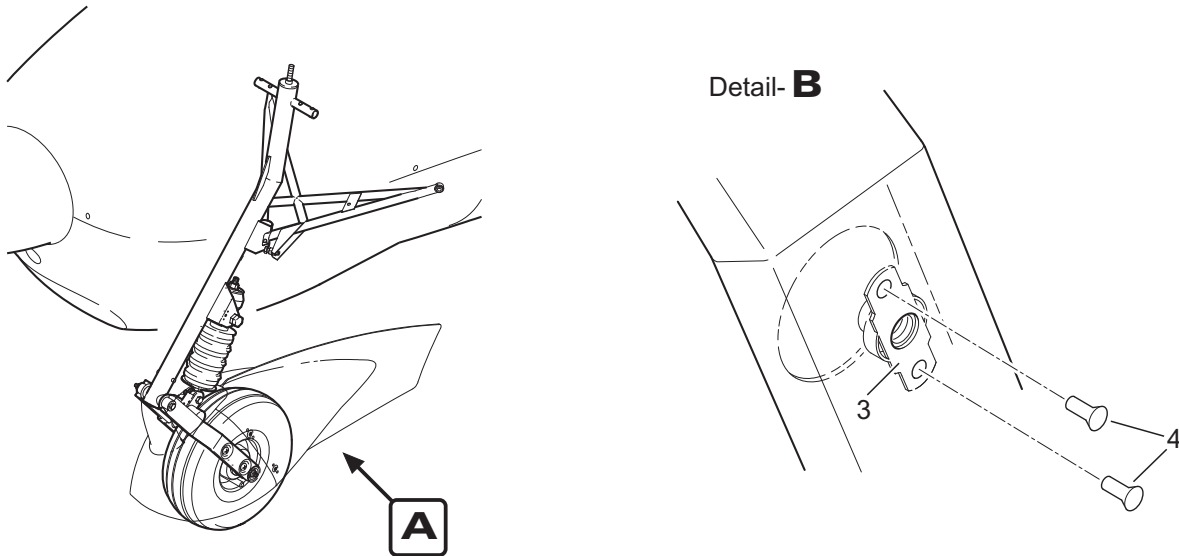


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Nose Gear - General	
1			Nose Gear Fairing Installation (refer to 32-20-00, figure 2A for details)	"High Speed"
1			Nose Gear Fairing Installation (refer to 32-20-00, figure 2B for details)	"Soft Field"
2			Nose Gear Strut Installation (refer to 32-20-00, figure 3 for details)	
3			Nose Gear Fork/Damper Installation (refer to 32-20-00, figure 4 for details)	
4			Damper Assembly (refer to 32-20-00, figure 5A for details)	Nose gear fork AT01-5110-002
4			Damper Assembly (refer to 32-20-00, figure 5B for details)	Nose gear fork AT01-5110-005
5			Nose Gear Wheel Installation (refer to 32-20-00, figure 6A for details)	Beringer
5			Nose Gear Wheel Installation (refer to 32-20-00, figure 6B for details)	Cleveland/ Grove

- Item not illustrated



EFFECTIVITY

Aircraft equipped
with nose gear
fairing "High Speed"

Nose Gear Fairing Installation
Figure 2A

32-20-00

Page 4A
31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2A			Nose Gear Fairing Installation	"High Speed"
1	1	AT01-5160-002-070	nose gear fairing "High Speed" forepart	100 - 299 / 2)
		AT01-5160-007-070	nose gear fairing "High Speed" forepart	AT01-5110-002
		AT01-5160-010-070	nose gear fairing "High Speed" forepart (with cutout for reinforced nose wheel fork)	AT01-5110-005 / 1)
2	1	AT01-5160-003-070	nose gear fairing "High Speed" rear part	100 - 299 / 2)
		AT01-5160-008-070	nose gear fairing "High Speed" rear part	
3	4	18029679M6	rivet nut (LN 29679 M6)	
4	8	1807337_3,2x6 ES/ES	rivet (ISO 15984 3,2x6 A2/A2)	

Option A: Wheel fairing installation with steel washers

steel washers

5	2	1800913_M06x25	threaded pin (ISO 4026 M6x25)
6	2	1800913_M06x30	threaded pin (ISO 4026 M6x30)
7	4	1800985_M6	locknut (ISO 10511 M6)
8	4	1809021_6,4	washer (ISO 7093 6,4x18)
9	-	-	-

Option B: Wheel fairing installation with polyamide washers

PA washers

5	2	1800913_M06x30	threaded pin (ISO 4026 M6x30)
6	2	1800913_M06x35	threaded pin (ISO 4026 M6x35)
7	4	1800985_M6	locknut (ISO 10511 M6)
8	4	1809021_6,4_PA	washer (ISO 7093 6,4x18 polyamide)
9	4	1800125_6,4	washer (ISO 7089 6,4x12)

Service Kits & Tools

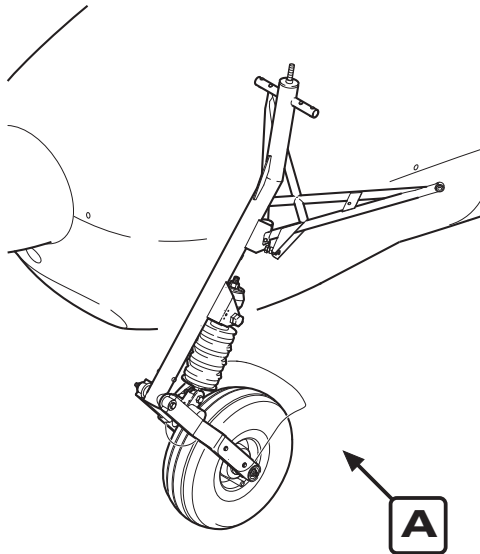
AT01-5160-009-096 nose gear fairing "High Speed"
(incl. AT01-5160-007 & AT01-5160-008 & mounting material)

1) Refer to SB-AT01-037 for a retrofit of the reinforced nose wheel fork.

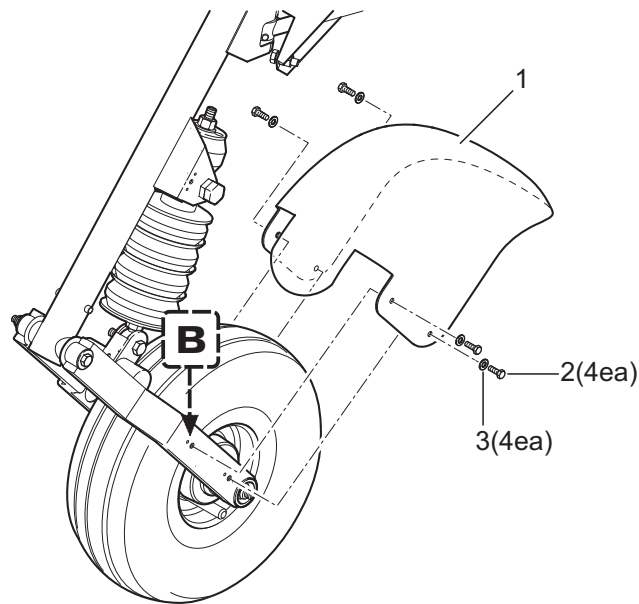
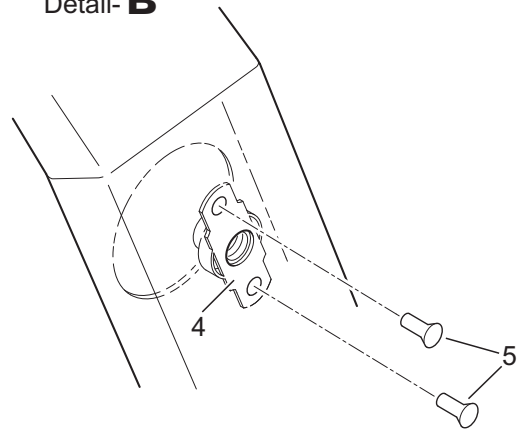
2) The old version of the nose gear fairing is no longer available and replaced by the parts shown on this page. Refer to SI-AT01-017 for more detailed information.

100 - 299

- Item not illustrated



Detail- **B**



Detail- **A**

EFFECTIVITY

Aircraft equipped
with nose gear
fairing "Soft Field"

Nose Gear Fairing Installation
Figure 2B

32-20-00

Page 4B

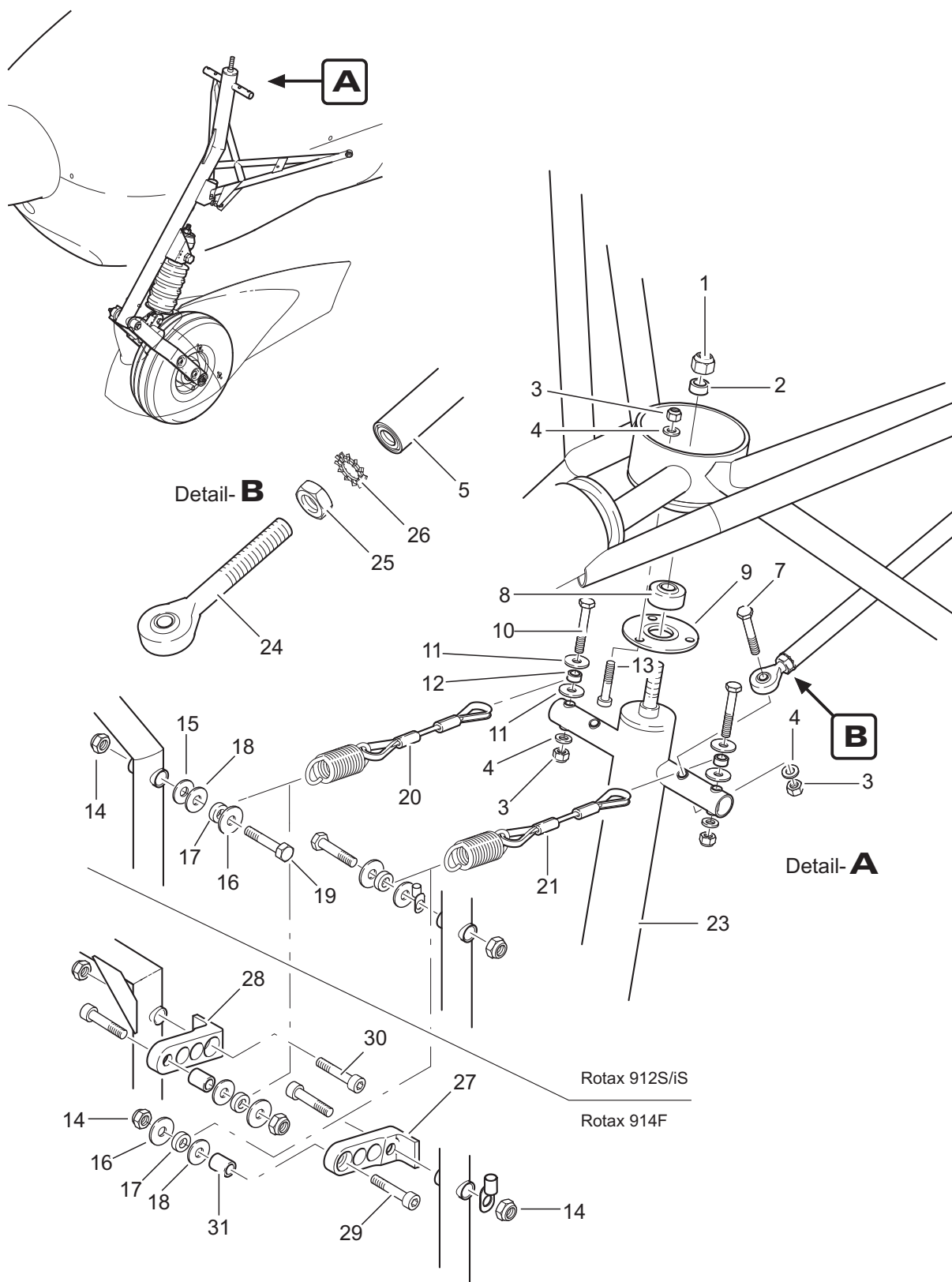
31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2B			Nose Gear Fairing Installation	"Soft Field"
1	1	AT01-5160-006-070	nose gear fairing "Soft Field"	
2	4	1807380_6x20 ULF	bolt (ISO 7380 M6x20 ULF)	
3	4	1809021_6,4_PA	washer (ISO 7093 6,4x18 polyamide)	
4	4	18029679M6	rivet nut (LN 29679 M6)	
5	8	1807337_3,2x6 ES/ES	rivet (ISO 15984 3,2x6 A2/A2)	

Service Kits & Tools

AT01-5160-006-096	nose gear fairing "Soft Field" (incl. mounting material)
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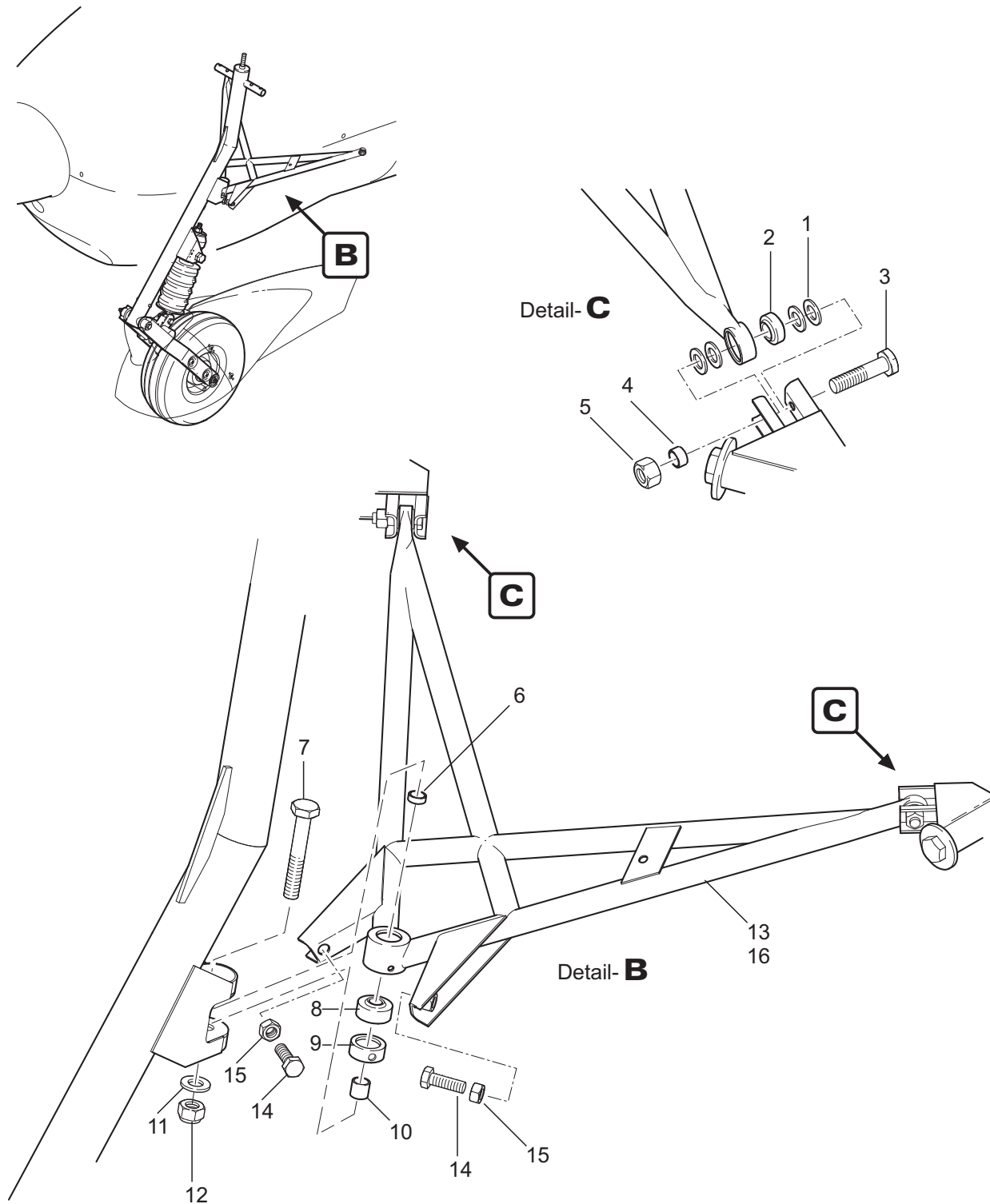
- Item not illustrated



Nose Gear Strut Installation
Figure 3 (1)

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3 (1)			Nose Gear Strut Installation	
1	1	1800985_M10	locknut (ISO 10511 M10)	
2	1	AT01-5110-120	spacer sleeve (upper bearing)	
3	7	1800985_M6	locknut (ISO 10511 M6)	
4	7	1800125_6,4	washer (ISO 7089 6,4x12)	
5	1	AT01-5120-002	handlebar LH	
-6	1	AT01-5120-004	handlebar RH	
7	2	1809037_06040	bolt (LN 9037 M6x40)	
8	1	AT01-1850-103	bearing	
9	1	AT01-5110-105	bearing ring	
10	2	1809037_06040	bolt (LN 9037 M6x40)	
11	4	1809021_6,4	washer (ISO 7093 6,4x18)	
12	2	AT01-4510-125	spacer sleeve	
13	3	1806912_M6x30	bolt (DIN 6912 M6x30 8.8)	
14	2/4	1800985_M8	locknut (ISO 10511 M8)	
15	1	1800125_8,4	washer (ISO 7089 8,4x16)	Rotax 912S/iS
16	2	1809021_8,4	washer (ISO 7093 8,4x24)	
17	2	AT01-5120-102	spacer sleeve	
18	2	AT01-4540-147	washer	
19	2	1800931_M8x40	bolt (ISO 4014 M8x40 8.8)	Rotax 912S/iS
20	1	AT01-5120-008	centering cable RH (incl. centering spring)	
21	1	AT01-5120-007	centering cable LH (incl. centering spring)	
22	-	-	-	
23	1	AT01-5110-001	nose gear leg	
24	2	AT01-1850-120	swivel head	
25	2	1800936_M8	nut (ISO 4035 M8)	
26	2	1806797_8,4	tooth washer (DIN 6797 8,4x15)	
27	1	AT01-5120-110	mounting bracket LH	Rotax 914F
28	1	AT01-5120-111	mounting bracket RH	Rotax 914F
29	2	1807984_8x40	bolt (ISO 14580 M8x40 8.8)	Rotax 914F
30	2	1800912_M8x35	bolt (ISO 4762 M8x35 8.8)	Rotax 914F
31	2	AT01-5120-109	spacer sleeve	Rotax 914F

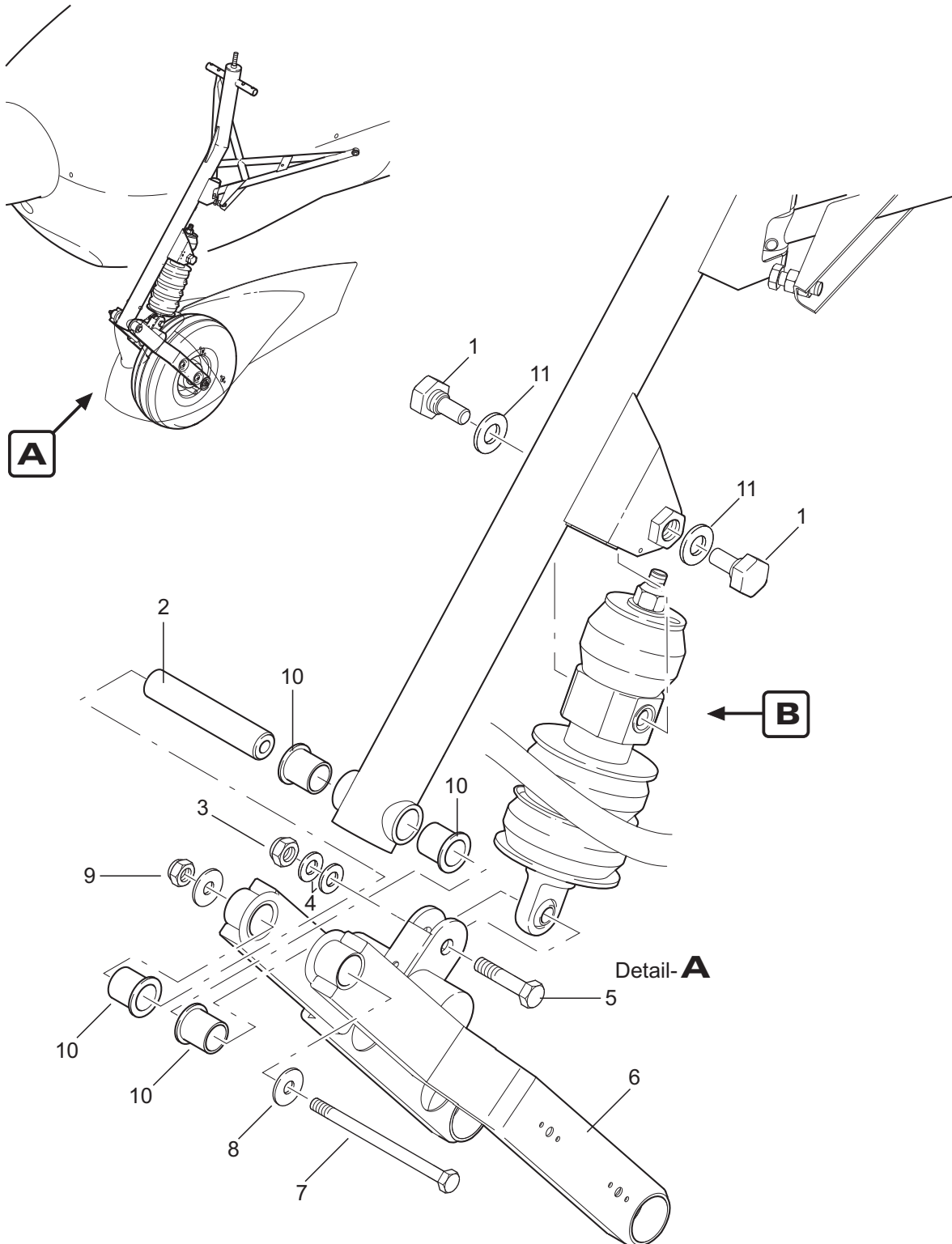
- Item not illustrated



Nose Gear Strut Installation
Figure 3 (2)

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3 (2)			Nose Gear Strut Installation	
1	8	1800988_8/1	adjusting washer (DIN 988 8x14x1)	
2	2	AT01-1850-104	bearing	
3	2	1809037_08032	bolt (LN 9037 M8x32)	
4	2	AT01-4510-127	spacer sleeve	
5	2	1800985_M8	locknut (ISO 10511 M8)	
6	1	AT01-5130-101	upper bearing sleeve	
7	1	1809037_10048	bolt (LN 9037 M10x48)	
8	1	AT01-1850-103	bearing	
9	1	AT01-5130-103	bearing ring	
	3	1807337_4,0x6 ES/ES	rivet (ISO 15984 A 4x6 A2/A2)	
10	1	AT01-5130-100	lower bearing sleeve	
11	1	1800125_10,5	washer (ISO 7089 10,5x20)	
12	1	1800985_M10	locknut (ISO 10511 M10)	
13	1	AT01-5130-001	nose gear leg support brace	
14	2	1800933_M8x25	bolt (ISO 4017 M8x25 8.8)	
15	2	1800934_M8	nut (ISO 4032 M8)	
16	1	AT01-5130-003	nose gear leg support brace assembly (including items 1-5, 8, 9, 13-15)	

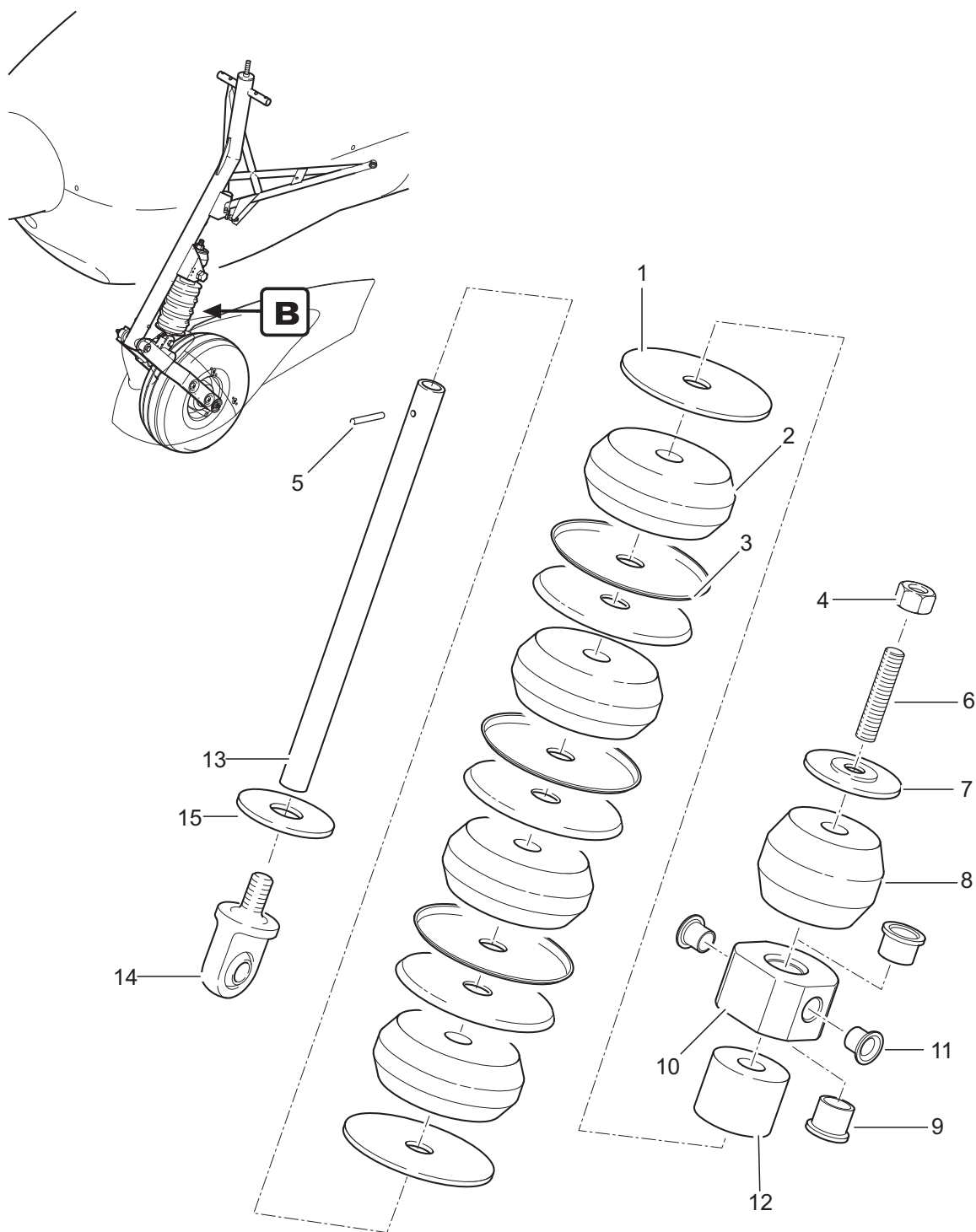
- Item not illustrated



Nose Gear Fork / Damper Installation
Figure 4

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
4			Nose Gear Fork / Damper Installation	
1	2	AT01-5110-111	bolt	
2	1	AT01-5110-102	nose gear bearing shaft	
3	1	1800985_M10	locknut (ISO 10511 M10)	
4	2	1800125_10,5	washer (ISO 7089 10,5x20)	
5	1	1809037_10040	bolt (LN 9037 M10x40)	
6	1	AT01-5110-002	nose gear fork	max. 750kg MTOW
		AT01-5110-005	nose gear fork (reinforced)	up to 800kg MTOW / 1)
7	1	1800931_M8x110	bolt (ISO 4014 M8x110 8.8)	
8	2	1809021_8,4	washer (ISO 7093 8,4x24)	
9	1	1800985_M8	locknut (ISO 10511 M8)	
10	4	1850022	collar bushing	
11	2	1800125_15	washer (ISO 7089 15x28)	
1) Refer to SB-AT01-037 for a retrofit of the reinforced nose wheel fork.				

- Item not illustrated



Detail- **B**

EFFECTIVITY

Aircraft equipped
with nose gear fork
AT01-5110-002

Damper Assembly
Figure 5A

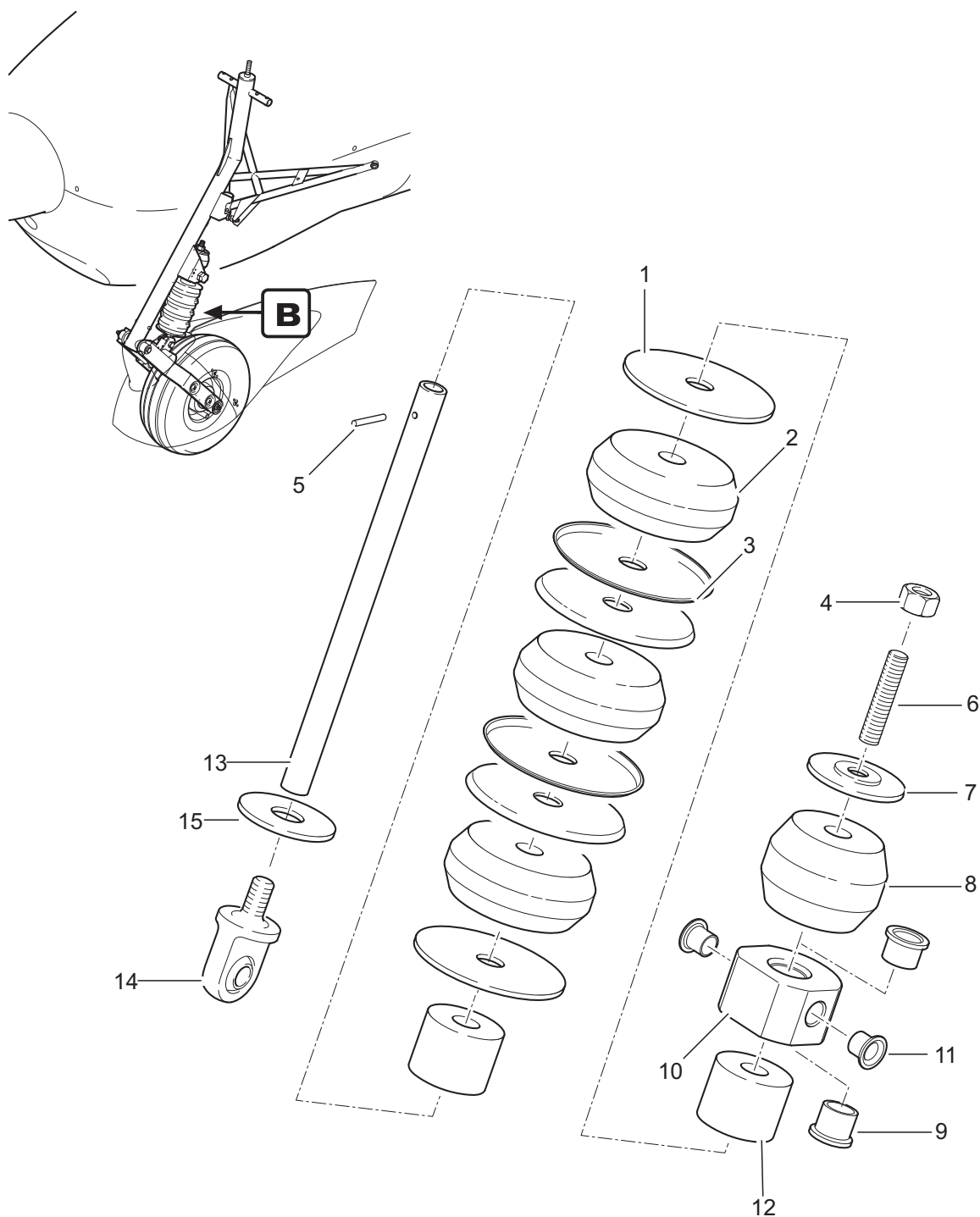
Fig. Item	QTY	Part Number	Nomenclature	Effectivity
5A			Damper Assembly	AT01-5110-002
1	2	AT01-5140-102	damper plate	
2	4	AT01-5140-104	main rubber element	
3	6	AT01-5140-103	plate	
4	1	1800985_M10	locknut (ISO 10511 M10)	
5	1	1801473 FST 3x12	grooved pin (DIN 1473 3x12)	
6	1	AT01-5140-106	threaded insert	
7	1	AT01-5140-113	pressure disc	
8	1	AT01-5140-105	rebound rubber element	
9	2	1850033	collar bushing	
10	1	AT01-5140-108	glide element	
11	2	1850013	collar bushing	
12	1	AT01-5140-109	spacer	
13	1	AT01-5140-101	guide tube	
14	1	AT01-5140-005	swivel head	
15	1	AT01-5140-112	pressure disc	

Service Kits & Tools

AT01-5140-001-096 damper assembly (4 rubber elements / including items 1-15)

Refer to SB-AT01-037 for a retrofit of the reinforced nose wheel fork.

- Item not illustrated



Detail- **B**

EFFECTIVITY

Aircraft equipped
with nose gear fork
AT01-5110-005

Damper Assembly
Figure 5B

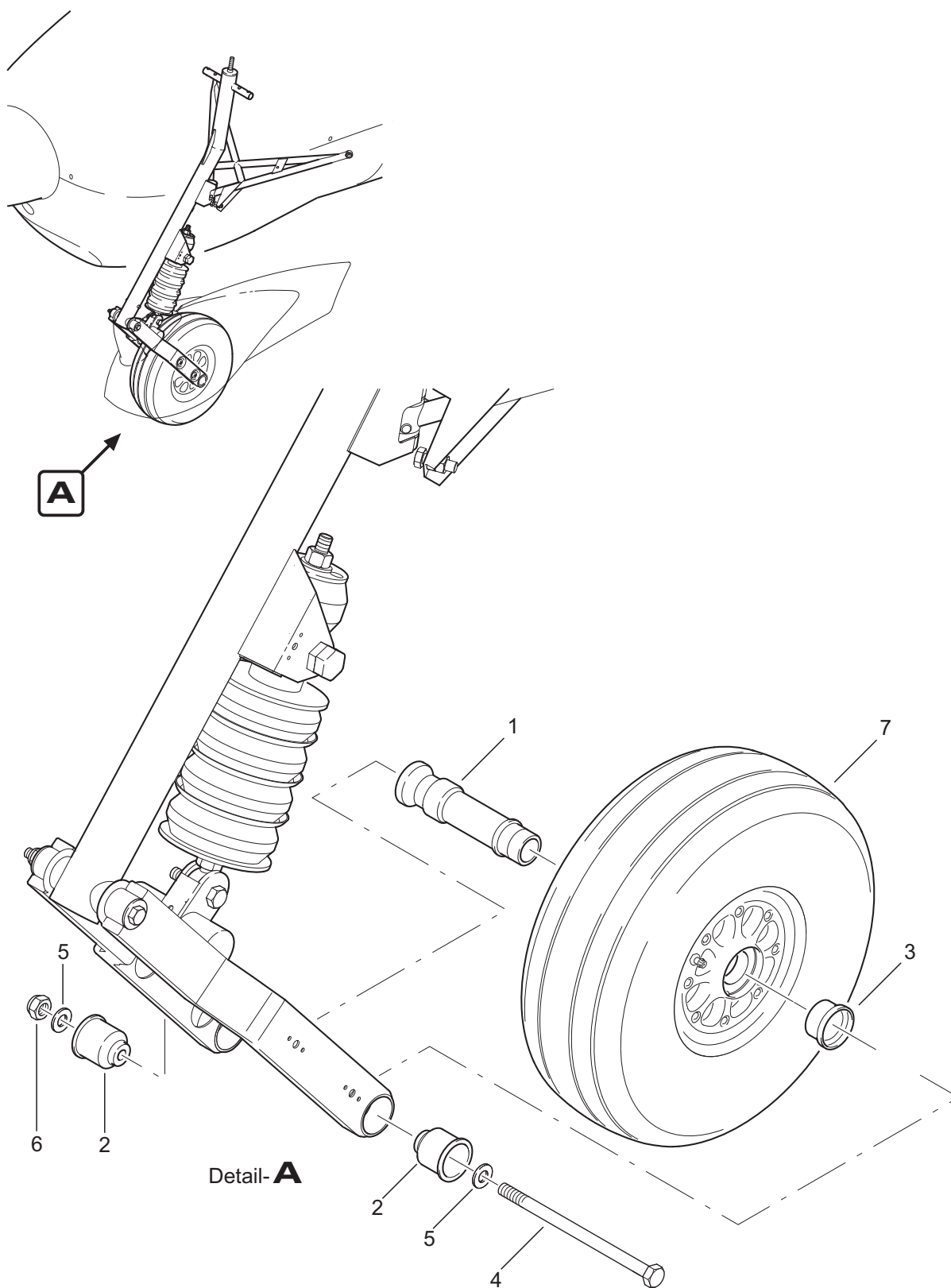
Fig. Item	QTY	Part Number	Nomenclature	Effectivity
5B			Damper Assembly	AT01-5110-005
1	2	AT01-5140-114	damper plate	
2	3	AT01-5140-104	main rubber element	
3	4	AT01-5140-103	plate	
4	1	1800985_M10	locknut (ISO 10511 M10)	
5	1	1801473 FST 3x12	grooved pin (DIN 1473 3x12)	
6	1	AT01-5140-106	threaded insert	
7	1	AT01-5140-113	pressure disc	
8	1	AT01-5140-105	rebound rubber element	
9	2	1850033	collar bushing	
10	1	AT01-5140-108	glide element	
11	2	1850013	collar bushing	
12	2	AT01-5140-109	spacer	
13	1	AT01-5140-101	guide tube	
14	1	AT01-5140-005	swivel head	
15	1	AT01-5140-112	pressure disc	

Service Kits & Tools

AT01-5140-006-096 damper assembly (3 rubber elements / including items 1-15)

Refer to SB-AT01-037 for a retrofit of the reinforced nose wheel fork.

- Item not illustrated



EFFECTIVITY

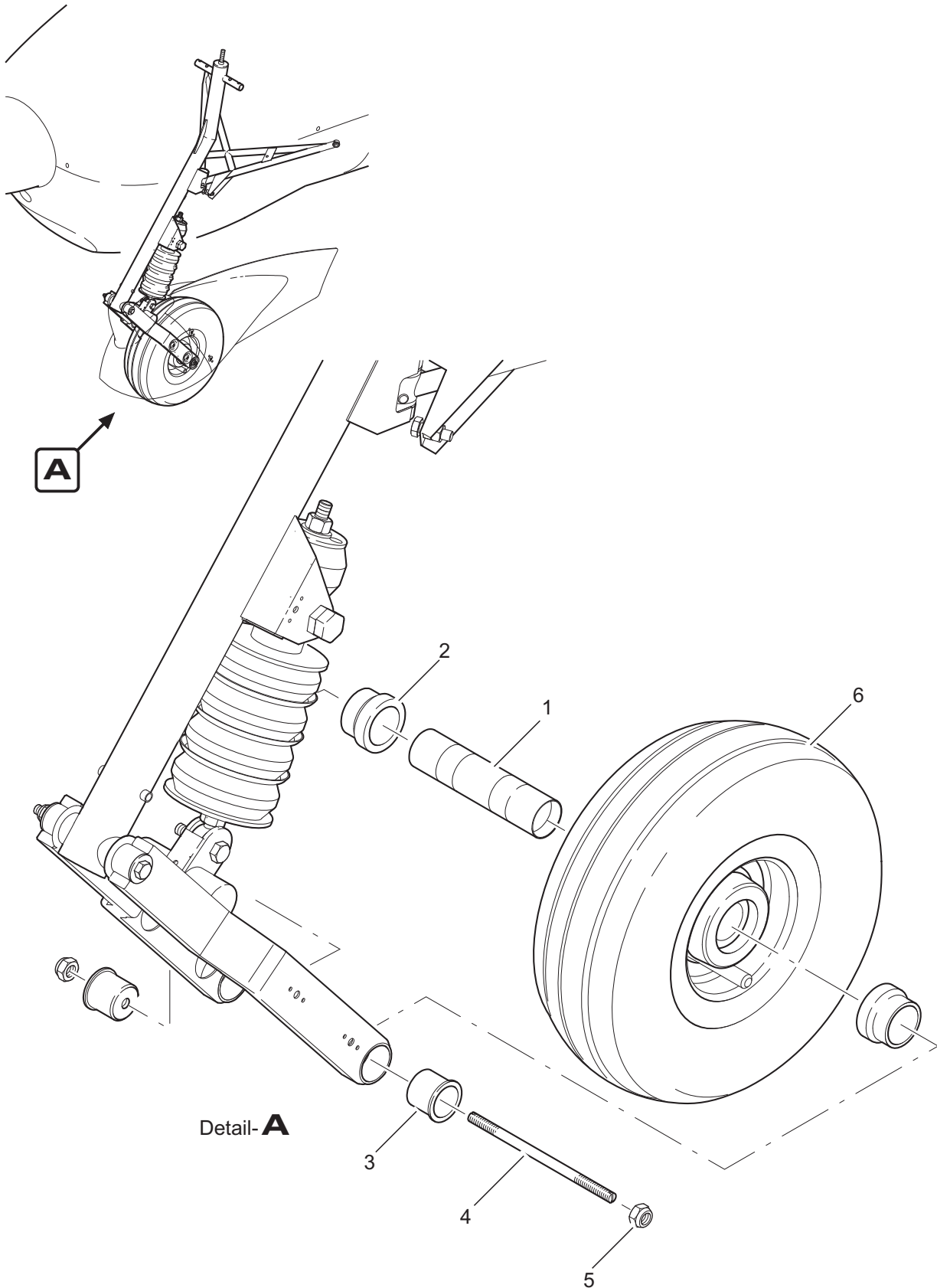
Aircraft equipped
with Beringer wheels

Nose Gear Wheel Installation
Figure 6A

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
6A			Nose Gear Wheel Installation	Beringer
1	1	AT01-5150-130	nose landing gear axle	
2	2	AT01-5150-131	bearing race	
3	1	AT01-5150-132	spacer sleeve	
4	1	1800931_M8x140	bolt (ISO 4014 M8x140 8.8)	
5	2	1800125_8,4	washer (ISO 7089 8,4x16)	
6	1	1800985_M8	locknut (ISO 10511 M8)	
7	1	AT01-5150-007	nose wheel Beringer RA-002 (incl. rim and tire / old version with central spacer / replaced by RA-014)	
	1	AT01-5150-008	nose wheel Beringer RA-014 (incl. rim and tire / new version without central spacer / replaces RA-002)	

- Item not illustrated



Detail- **A**

EFFECTIVITY

Aircraft equipped
with Cleveland/
Grove wheels

Nose Gear Wheel Installation
Figure 6B

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
6B			Nose Gear Wheel Installation	Cleveland/Grove
1	1	AT01-5150-100	nose landing gear axle	
2	2	AT01-5150-102	spacer sleeve	
3	2	AT01-5150-101	bearing race	
		AT01-5150-131	bearing race (optional)	
4	1	AT01-5150-103	axle bolt	
5	2	1800980_M08_10	locknut (ISO 7042 M8 class 10)	
6	1	AT01-5150-003	nose wheel Cleveland (incl. rim and tire)	Cleveland
		AT01-5150-004	nose wheel Grove (incl. rim and tire)	Grove

- Item not illustrated

WHEELS AND BRAKES

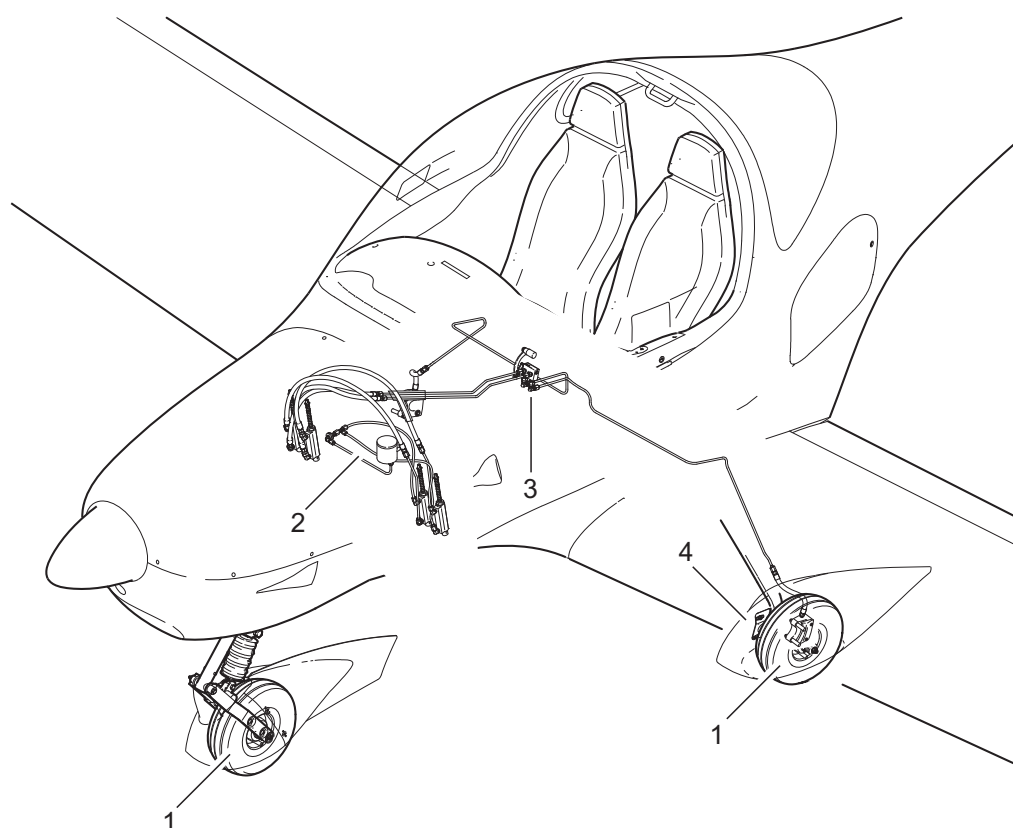
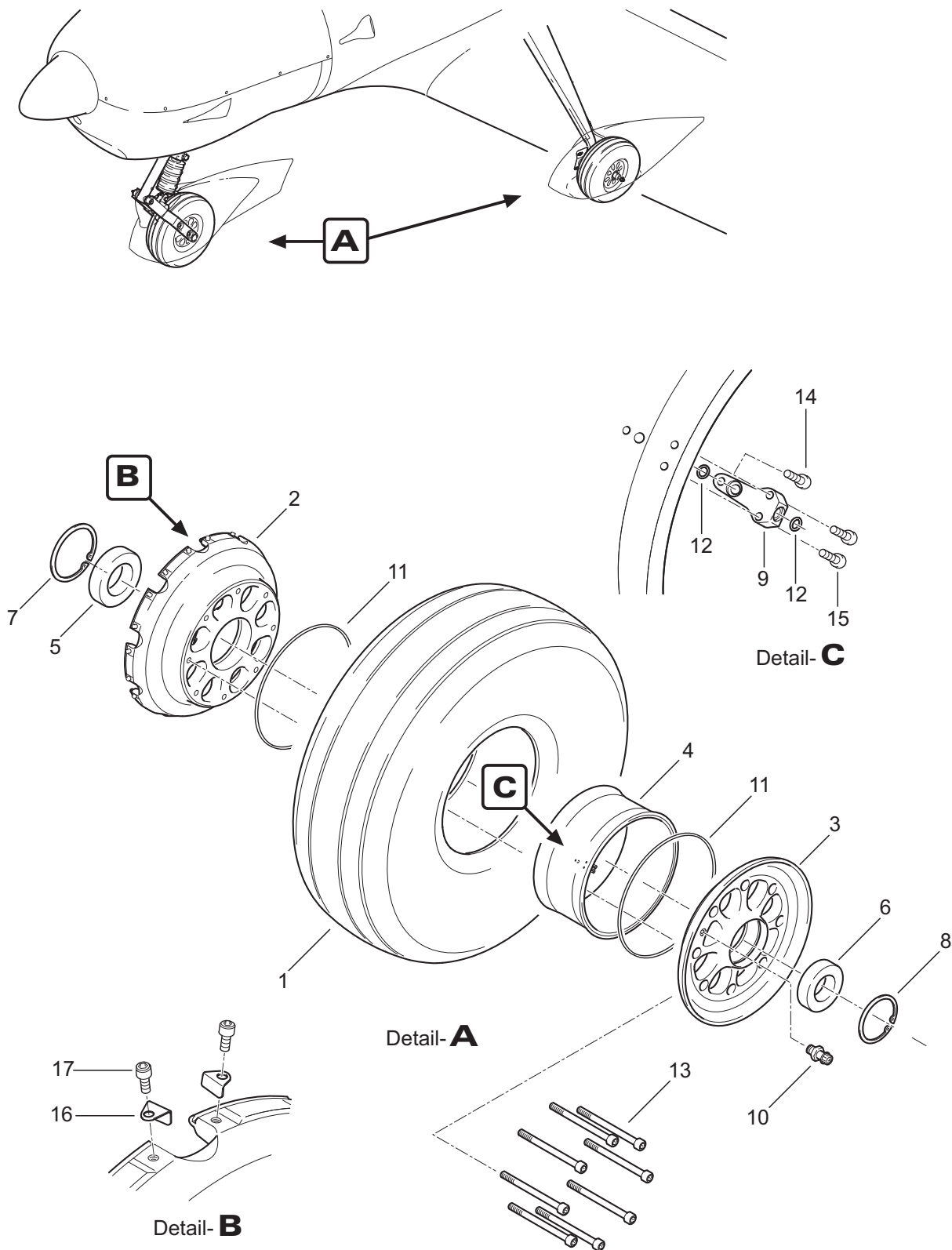


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Wheels & Brakes - General	
	1		Wheel Assembly (refer to 32-40-00, figure 2A for details)	Beringer RF-005 / RA-002
	1		Wheel Assembly (refer to 32-40-00, figure 2B for details)	Beringer RF-018 / RA-014
	1		Wheel Assembly (refer to 32-40-00, figure 2C for details)	Cleveland/Grove
	2		Brake System Installation - Front (refer to 32-40-00, figure 3A for details)	Beringer
	2		Brake System Installation - Front (refer to 32-40-00, figure 3B for details)	Cleveland/Grove
	3		Brake System Installation - Rear (refer to 32-40-00, figure 4A for details)	Beringer
	3		Brake System Installation - Rear (refer to 32-40-00, figure 4B for details)	Cleveland/Grove
	4		Brake Caliper Assembly (refer to 32-40-00, figure 5A for details)	Beringer
	4		Brake Caliper Assembly (refer to 32-40-00, figure 5B for details)	Cleveland/Grove

- Item not illustrated



EFFECTIVITY

Aircraft equipped
with Beringer wheels
RF-005 / RA-002

Wheel Assembly
Figure 2A

32-40-00

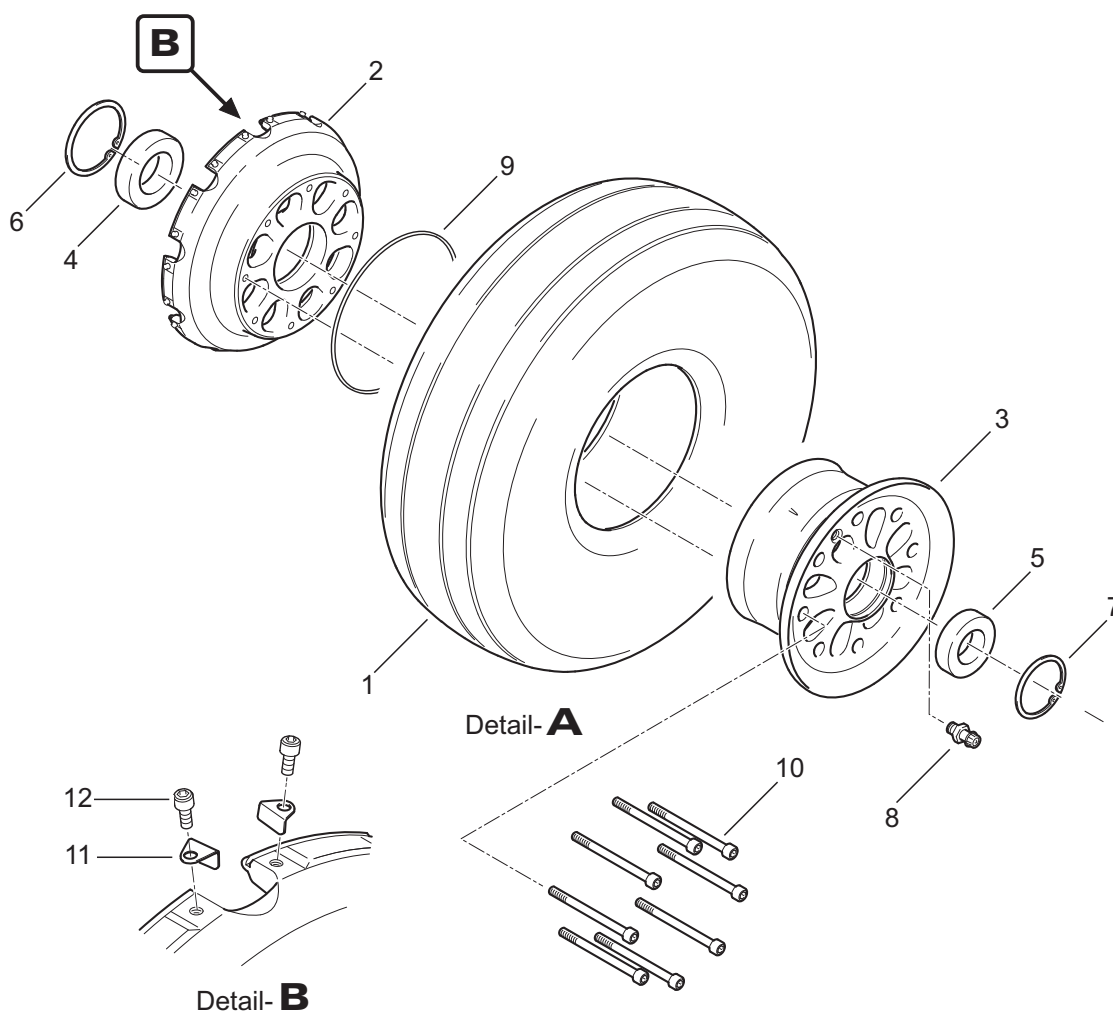
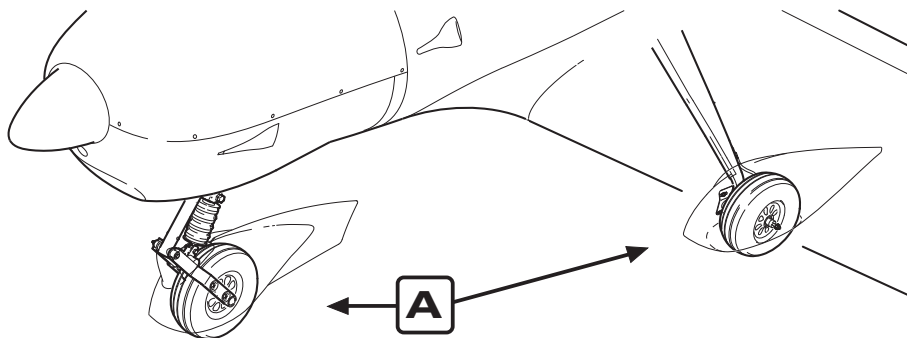
Page 4A
31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2A			Wheel Assembly	Beringer RF-005 / RA-002
1	1	AT01-4590-101	tire (5.00-5 / 10 ply / tubeless)	
	1	AT01-4590-104	tire (5.00-5 / 8 ply / tubeless / optional)	
2	1	AT01-5040-101	inner main wheel half	main wheel
-2	1	AT01-5150-133	inner nose wheel half	nose wheel
3	1	AT01-5040-102	outer wheel half	
4	1	AT01-5040-103	central spacer	
5	1	AT01-5040-104	inner bearing	
6	1	AT01-5040-105	outer bearing	
7	1	AT01-5040-106	inner circlip	
8	1	AT01-5040-107	outer circlip	
9	1	AT01-5040-108	connector	
10	1	AT01-5040-109	valve	
11	2	AT01-5040-110	large O-ring	
12	2	AT01-5040-111	small O-ring	
13	8	AT01-5040-112	bolt	
14	1	AT01-5040-113	assembly screw	
15	2	AT01-5040-114	assembly screw	
16	20	AT01-5040-115	clip	main wheel
17	20	AT01-5040-116	clip screw	main wheel

Service Kits & Tools

AT01-5040-004	main wheel Beringer RF-005 (incl. rim, brake disc & tire)	main wheel
AT01-5150-007	nose wheel Beringer RA-002 (incl. rim & tire)	nose wheel
1391108	tire change tool for Beringer wheels	

- Item not illustrated



EFFECTIVITY

Aircraft equipped
with Beringer wheels
RF-018 / RA-014

Wheel Assembly
Figure 2B

32-40-00

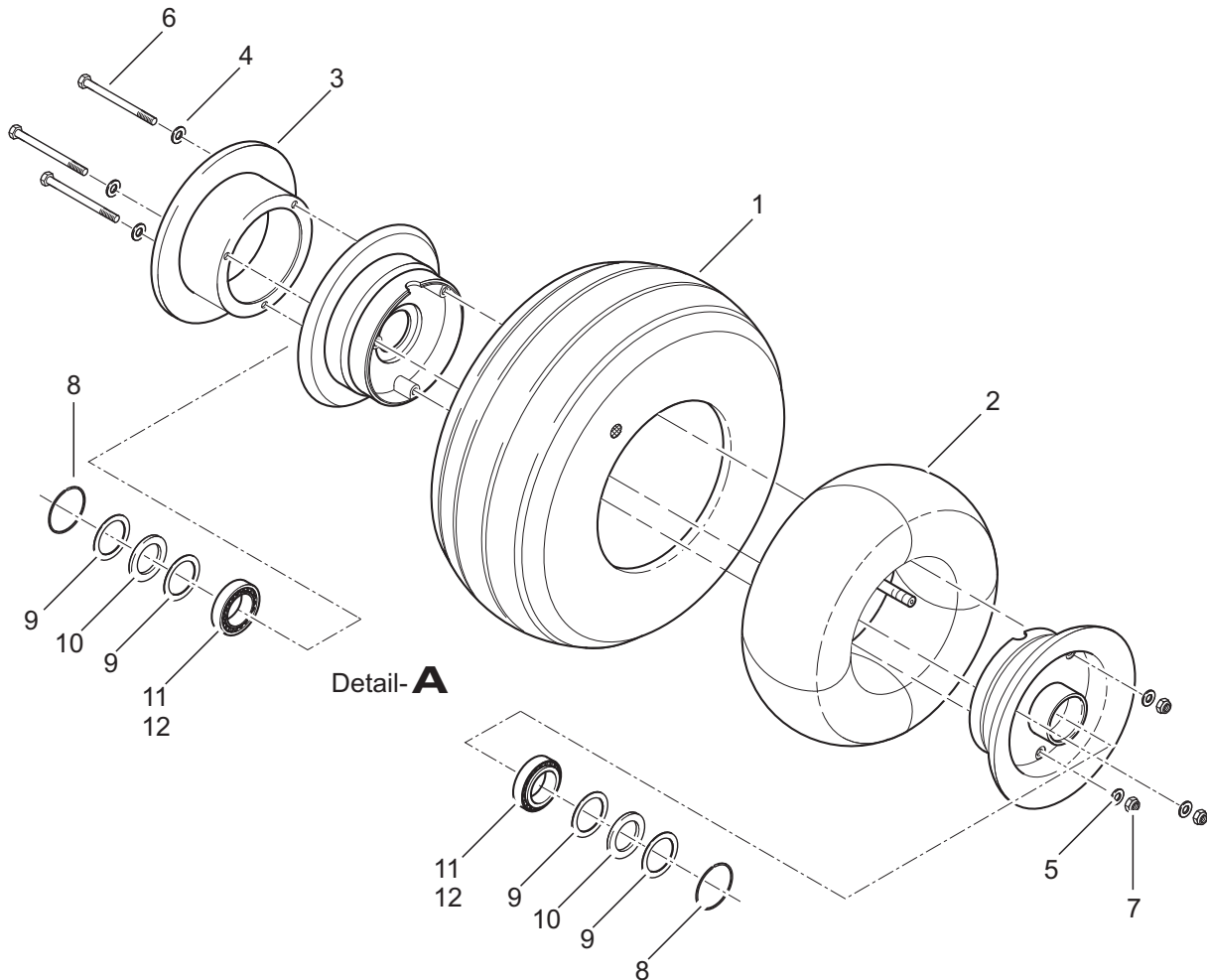
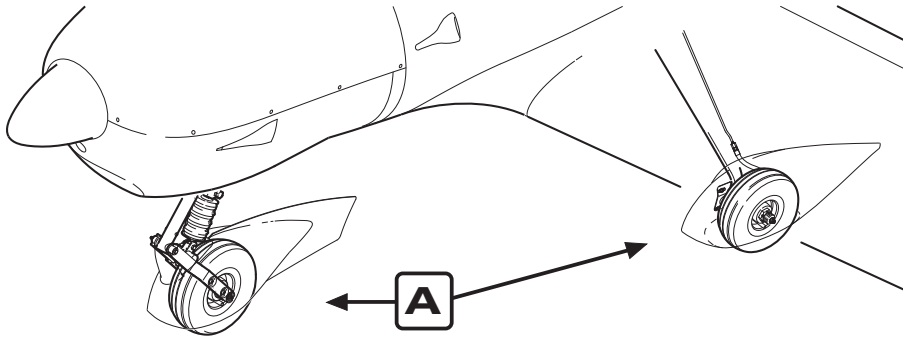
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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2B			Wheel Assembly	Beringer RF-018 / RA-014
1	1	AT01-4590-104	tire (5.00-5 / 8 ply / tubeless)	
2	1	AT01-5040-122	inner main wheel half	main wheel
-2	1	AT01-5150-134	inner nose wheel half	nose wheel
3	1	AT01-5040-120	outer wheel half	
4	1	AT01-5040-104	inner bearing	
5	1	AT01-5040-105	outer bearing	
6	1	AT01-5040-106	inner circlip	
7	1	AT01-5040-107	outer circlip	
8	1	AT01-5040-109	valve	
9	1	AT01-5040-110	large O-ring	
10	8	AT01-5040-119	bolt	
11	20	AT01-5040-121	clip	main wheel
12	20	AT01-5040-116	clip screw	main wheel

Service Kits & Tools

AT01-5040-005	main wheel Beringer RF-018 (incl. rim, brake disc & tire)
AT01-5150-008	nose wheel Beringer RA-014 (incl. rim & tire)
1391108	tire change tool for Beringer wheels

- Item not illustrated



EFFECTIVITY

Aircraft equipped
with Cleveland/
Grove wheels

Wheel Assembly
Figure 2C

32-40-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2C			Wheel Assembly	Cleveland/Grove
1	1	AT01-4590-102	tire Michelin	Michelin
		AT01-4590-103	tire Goodyear	Goodyear
2	1	AT01-4590-112	tube Michelin (use with Michelin tires only)	Michelin
		AT01-4590-113	tube Goodyear (use with Goodyear tires only)	Goodyear
		<u>Cleveland wheels</u>		Cleveland
3	1	AT01-5020-100	brake disc	main wheel
4	3	AT01-5020-357	washer (AN960-416L)	nose wheel
5	3	AT01-5020-357	washer (AN960-416L)	
6	3	AT01-5020-355	bolt (AN4-22A)	
7	3	AT01-5020-356	nut (MS21042-4)	
8	2	155-00200	retaining ring	
9	4	153-00800	ring grease seal	
10	2	154-00600	felt grease seal	
11	2	214-00300	cup bearing	main wheel
		AT01-5150-200	cup bearing	nose wheel
12	2	214-00400	cone bearing	main wheel
		AT01-5150-201	cone bearing	nose wheel
		<u>Grove wheels</u>		Grove
3	1	AT01-5020-302	brake disc	main wheel
4	3	AT01-5020-357	washer (AN960-416L)	nose wheel
5	3	AT01-5020-366	washer (AN960-416)	main wheel
		AT01-5020-357	washer (AN960-416L)	nose wheel
6	3	AT01-5020-365	bolt (AN4-23A)	main wheel
		AT01-5020-355	bolt (AN4-22A)	nose wheel
7	3	AT01-5020-370	nut (MS21044-N4)	
8	2	AT01-5020-362	retaining ring	
9	4	AT01-5020-363	ring grease seal	
10	2	AT01-5020-364	felt grease seal	
11	2	AT01-5150-200	cup bearing	
12	2	AT01-5150-201	cone bearing	
		<u>Service Kits & Tools</u>		
		AT01-5040-001	main wheel Cleveland (incl. rim, brake disc, tire & tube)	Cleveland
		AT01-5150-003	nose wheel Cleveland (incl. rim, tire & tube)	Cleveland
		AT01-5040-003	main wheel Grove (incl. rim, brake disc, tire & tube)	Grove
		AT01-5150-004	nose wheel Grove (incl. rim, tire & tube)	Grove

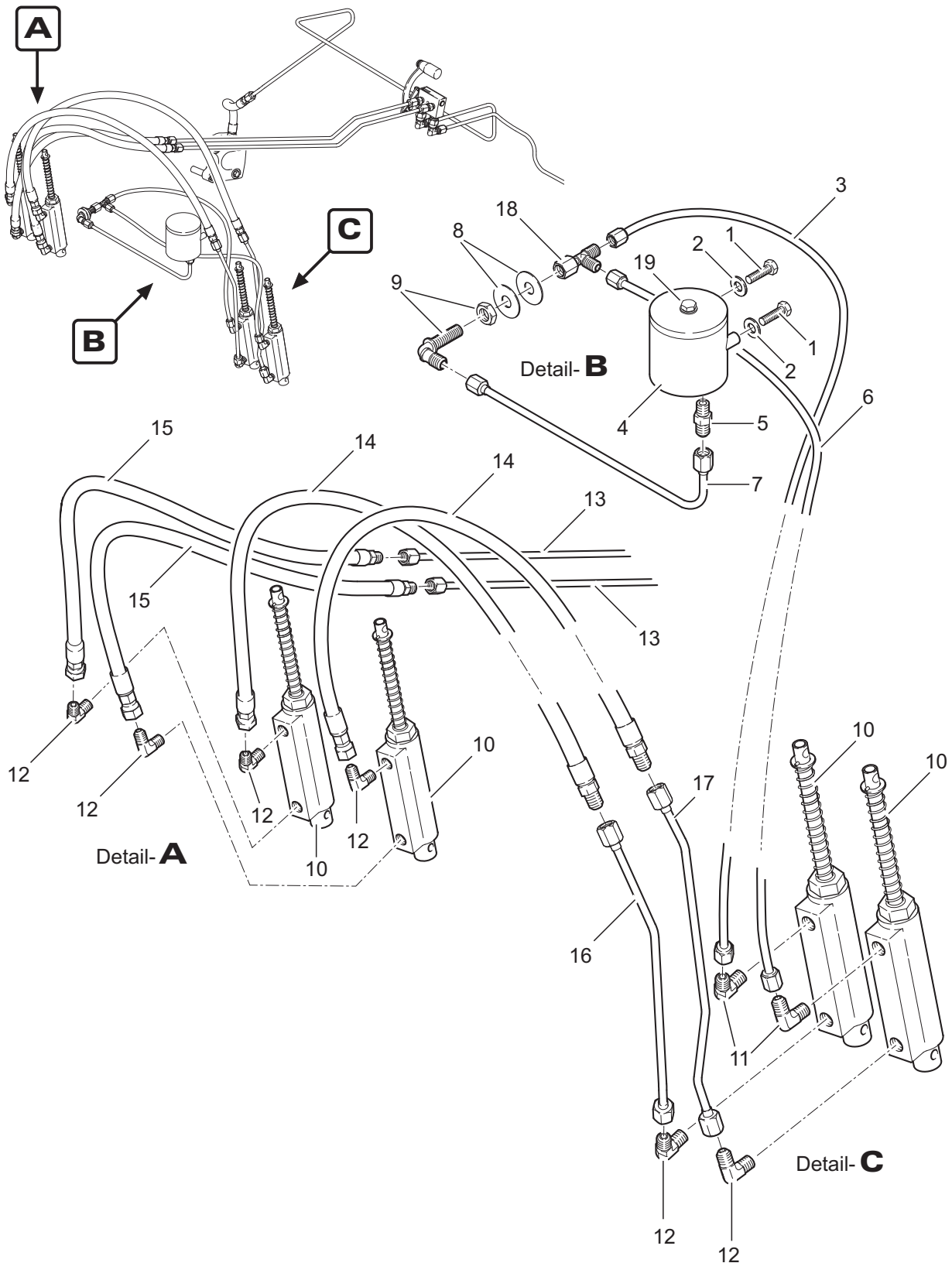
- Item not illustrated



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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3A			Brake System Installation - Front	Beringer
1	2	1800933_M6x20	bolt (ISO 4017 M6x20 8.8)	
2	2	1809021_6,4	washer (ISO 7093 6,4x18)	
3	1	AT01-5020-102	brake fluid reservoir	
4	1	AT01-4520-302	fitting 1/8"NPTF - 3/8"UNF	
5	1	AT01-5020-023	brake hose reservoir / bulkhead	300-366, 368-369
	1	AT01-5020-034	brake hose reservoir / bulkhead (modified firewall)	367, 370-999
6	2	AT01-5020-024	brake hose bulkhead / pilot	
7	2	AT01-5020-027	brake hose pilot / co-pilot	
8	2	AT01-5020-028	brake hose co-pilot / parking brake valve	
9	1	AT01-4520-303	bulkhead fitting	
10	1	AT01-4520-304	bulkhead fitting nut	
11	1	AT01-4540-103	washer (10,5x30x1,5)	
12	1	1800433_10,5	washer (ISO 7092 10,5x18)	
13	1	AT01-4520-286	T-fitting (replaced by item 22)	
14	2	AT01-4520-293	fitting 3/8"UNF (replaced by item 22)	
15	2	AT01-4520-291	banjo fitting 20° 3/8"UNF	
16	8	AT01-4520-294	banjo bolt	
17	19	AT01-4520-295	copper sealing	
18	4	AT01-6040-145	brake master cylinder Beringer	
19	4	AT01-6040-146	extender	
20	8	AT01-6040-147	rod end	
21	1	AT01-5020-623	sealing washer	
-22	1	AT01-4520-374	T-fitting (replaces items 13, 14 and 3x 17)	

- Item not illustrated



EFFECTIVITY

Aircraft equipped
with Cleveland/
Grove wheels

Brake System Installation - Front
Figure 3B

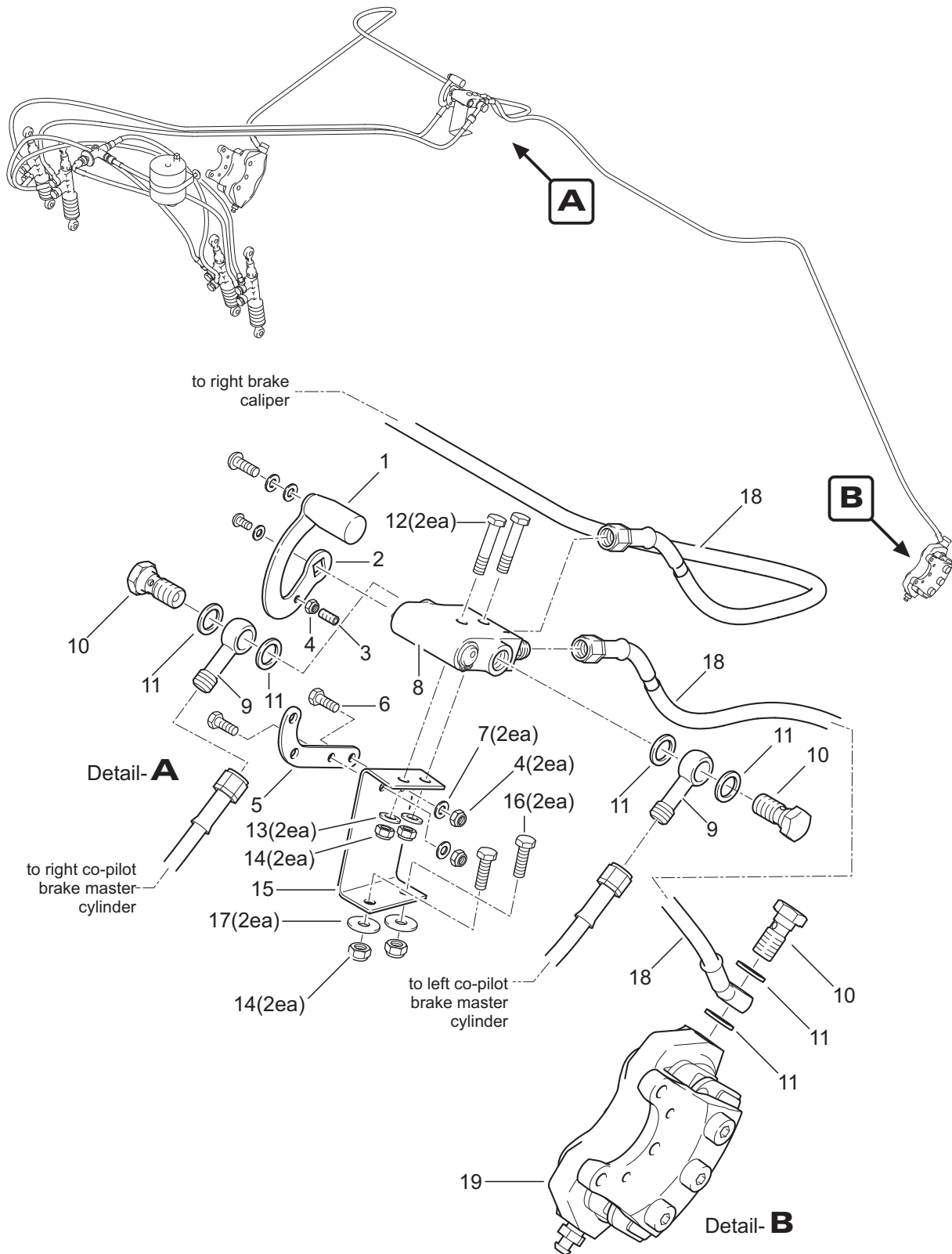
32-40-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3B			Brake System Installation - Front	Cleveland/Grove
1	2	1800933_M6x20	bolt (ISO 4017 M6x20 8.8)	
2	2	1809021_6,4	washer (ISO 7093 6,4x18)	
3	1	AT01-4520-420	PTFE hose	103-999
4	1	AT01-5020-102	brake fluid reservoir	
5	1	AT01-4520-235	fitting	
6	1	AT01-4520-420	PTFE hose	103-999
7	1	AT01-5020-002	brake line	103-366, 368-369
		AT01-5020-035	brake line	367, 370-999
		AT01-4520-160	elbow fitting	367, 370-999
8	2	1809022_12,5x35	washer (DIN 9022 12,5x35)	103-999
9	1	AT01-4520-208	bulkhead elbow	103-999
10	4	AT01-6040-106	brake master cylinder Cleveland	Cleveland
- 10	4	AT01-6040-138	brake master cylinder Matco	Matco
11	2	AT01-4520-207	elbow	103-999
12	6	AT01-4520-204	elbow	
13	2	AT01-5020-015	brake line	
14	2	AT01-5020-012	brake hose	
15	2	AT01-5020-013	brake hose	
16	1	AT01-5020-011	brake line RH	
17	1	AT01-5020-009	brake line LH	
18	1	AT01-4520-232	T-fitting	103-999
19	1	AT01-5020-623	sealing washer	

- Item not illustrated



EFFECTIVITY

Aircraft equipped
with Beringer wheels

Brake System Installation - Rear
Figure 4A

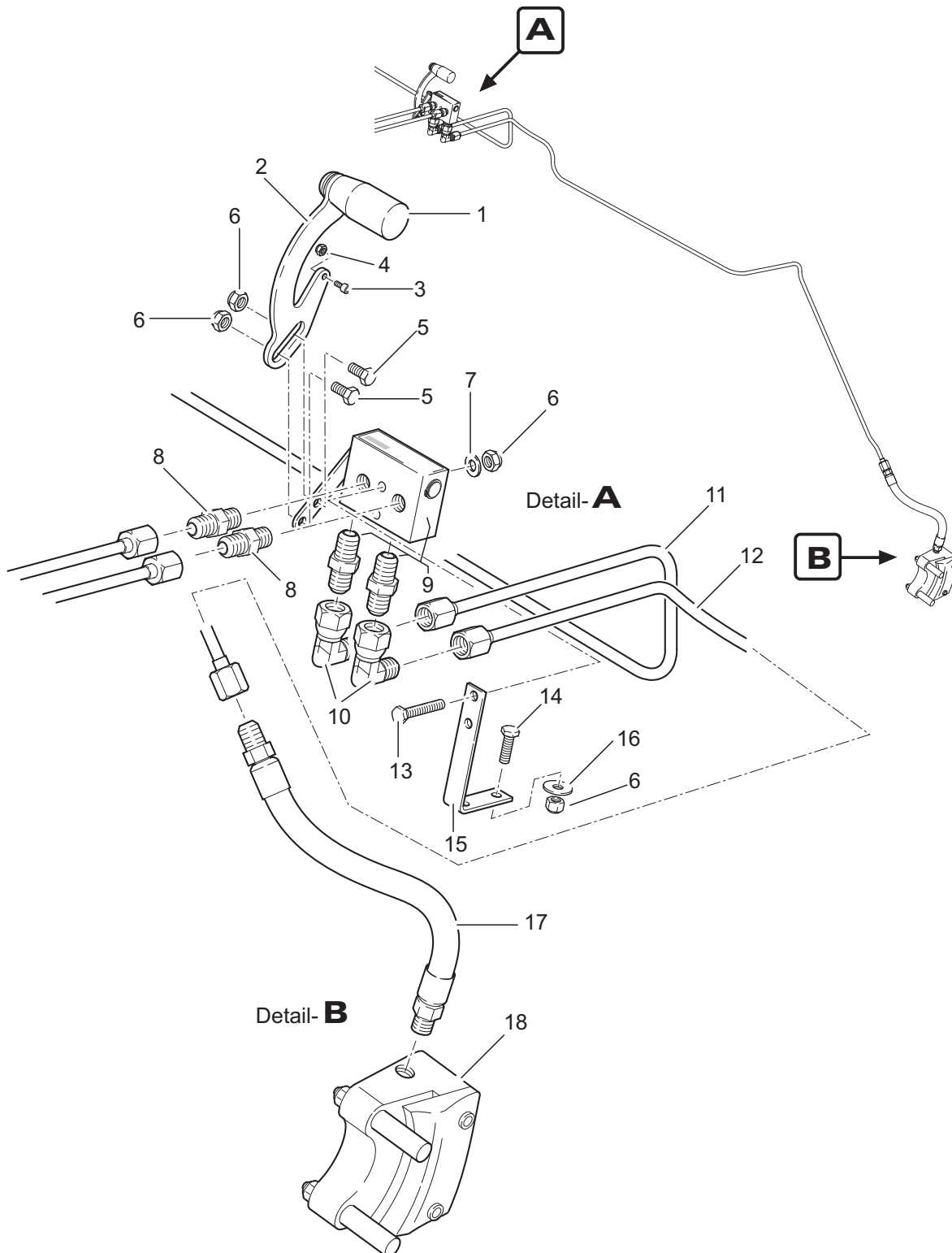
32-40-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
4A			Brake System Installation - Rear	Beringer
1	1	AT01-1860-612	knob	
2	1	AT01-5020-120	parking brake valve lever (contained in parking brake valve)	
3	1	AT01-1860-111	plunger M4x9	
4	3	1800985_M4	locknut (ISO 10511 M4)	
5	1	AT01-5020-121	catch plate	
6	2	1800933_M4x10	bolt (ISO 4017 M4x10 8.8)	
7	2	1800125_4,3	washer (ISO 7089 4,3x9)	
8	1	AT01-5020-154	parking brake valve Beringer (incl. lever)	
9	2	AT01-4520-305	banjo fitting	
10	4	AT01-4520-294	banjo bolt	
11	8	AT01-4520-295	copper sealing	
12	2	1800933_M5x25	bolt (ISO 4017 M5x25 8.8)	
13	2	1800125_5,3	washer (ISO 7089 5,3x10)	
14	4	1800985_M5	locknut (ISO 10511 M5)	
15	1	AT01-5020-119	fixing bracket	
16	2	1800933_M5x16	bolt (ISO 4017 M5x16 8.8)	
17	2	1809021_5,3	washer (ISO 7093 5,3x15)	
18	2	AT01-5020-031	brake hose parking brake valve / brake caliper	
19	2	AT01-5020-033	brake caliper Beringer (modified)	

- Item not illustrated



EFFECTIVITY

Aircraft equipped
with Cleveland/
Grove wheels

Brake System Installation - Rear
Figure 4B

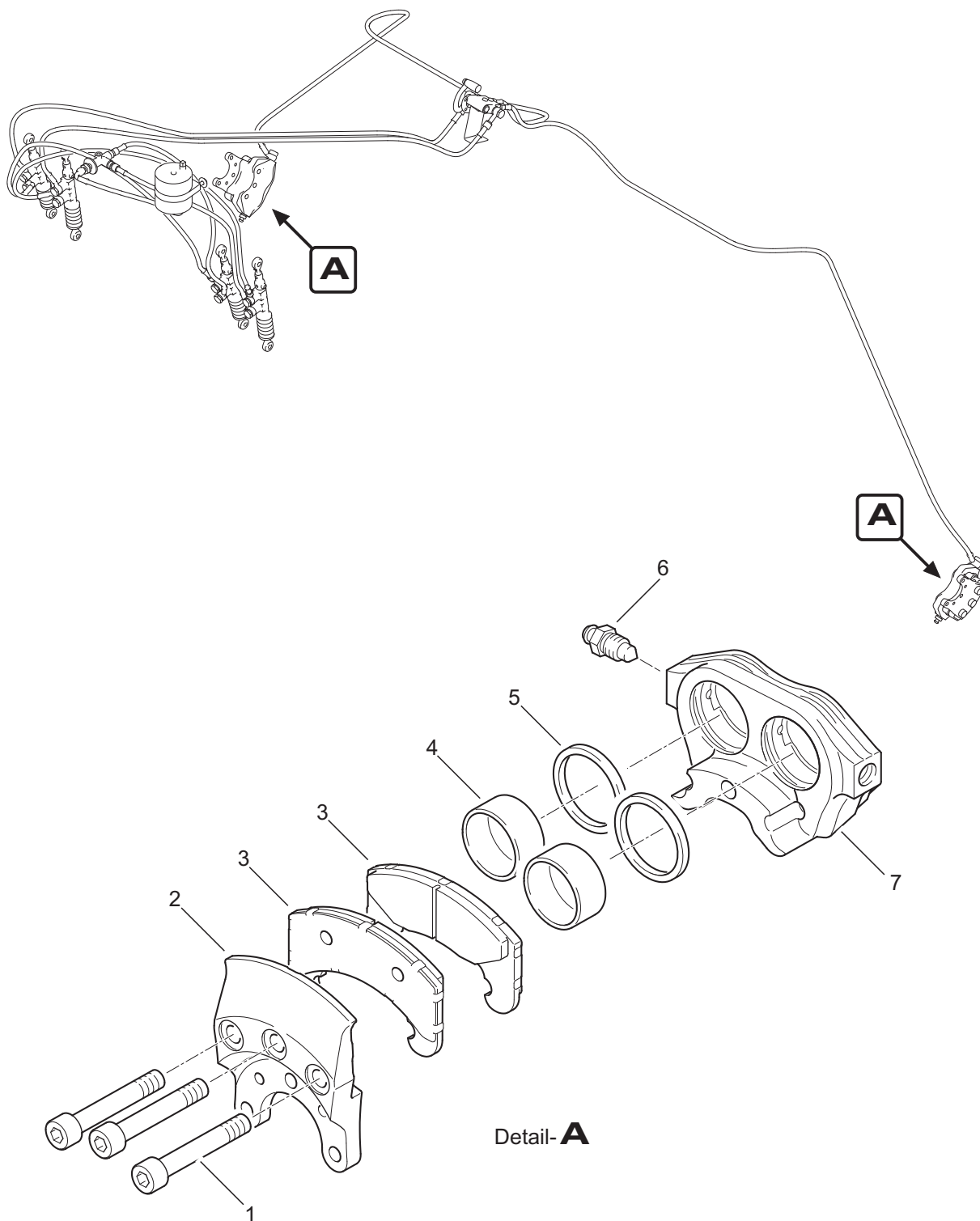
32-40-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
4B			Brake System Installation - Rear	Cleveland/Grove
1	1	AT01-1860-612	knob	123 - 999
2	1	AT01-5020-106	lever	123 - 999
3	1	AT01-1860-111	plunger M4x9	123 - 999
4	1	1800985_M4	locknut (ISO 10511 M4)	123 - 999
5	2	1800933_M5x12	bolt (ISO 4017 M5x12 8.8)	123 - 999
6	6	1800985_M5	locknut (ISO 10511 M5)	
7	2	1800125_5,3	washer (ISO 7089 5,3x10)	
8	2	AT01-4520-235	fitting	
9	1	AT01-5020-153	parking brake valve	
10	2	AT01-4520-160	elbow	
11	1	AT01-5020-017	brake line RH	
12	1	AT01-5020-016	brake line LH	
13	2	1800933_M5x30	bolt (ISO 4017 M5x30 8.8)	
14	2	1800933_M5x16	bolt (ISO 4017 M5x16 8.8)	
15	1	AT01-5020-103	fixing bracket	
16	2	1809021_5,3	washer (ISO 7093 5,3x15)	
17	2	AT01-5020-022	brake hose	
18	2	AT01-5020-004	brake caliper Cleveland	Cleveland
		AT01-5020-340	brake caliper Grove	Grove

- Item not illustrated



EFFECTIVITY

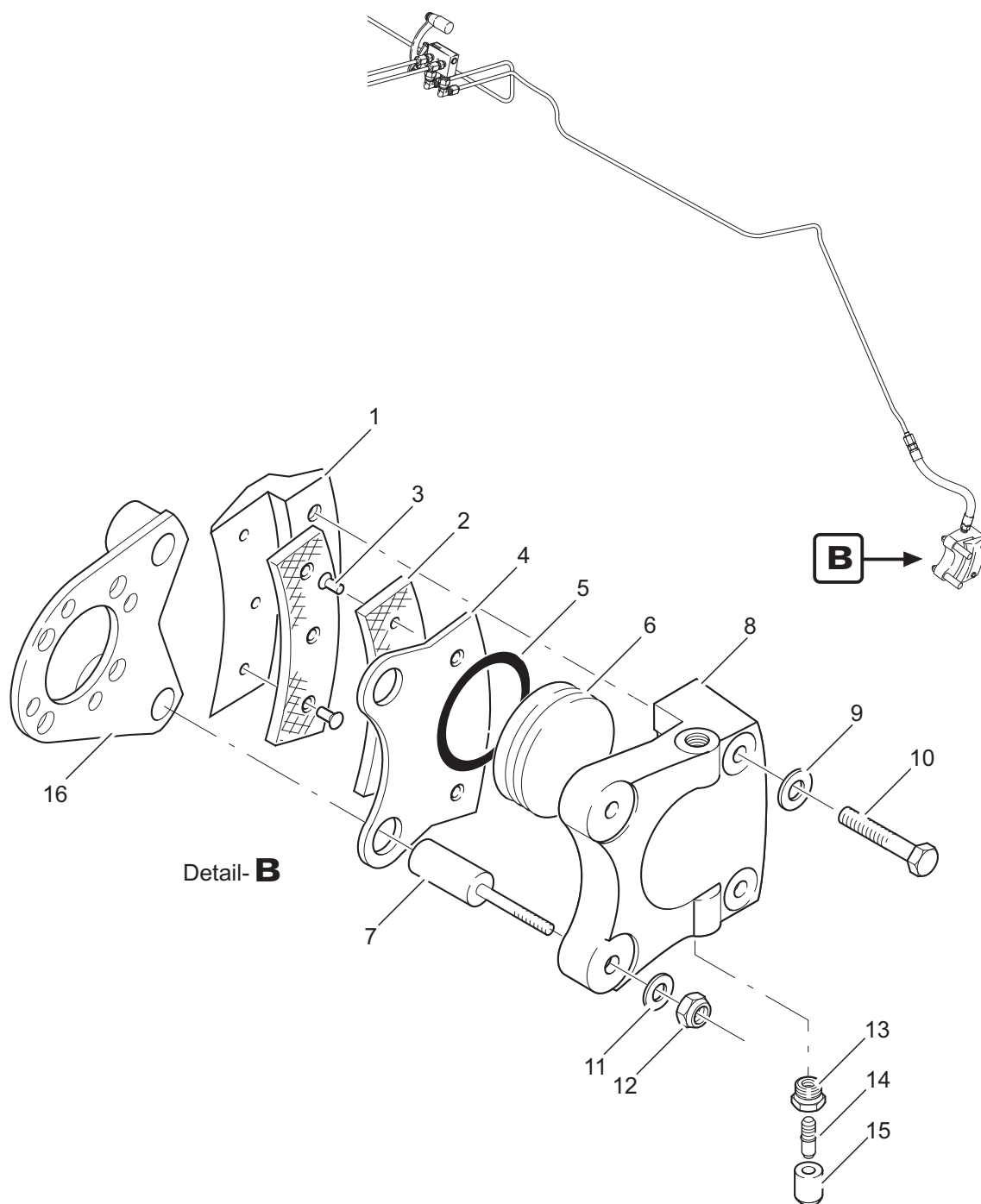
Aircraft equipped
with Beringer wheels

Brake Caliper Assembly
Figure 5A

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
5A			Brake Caliper Assembly	Beringer
1	3	AT01-5020-117	assembly screw	
2	1	AT01-5020-123	back plate (modified)	
3	2	AT01-5020-115	brake pad	
4	2	AT01-5020-113	piston	
5	2	AT01-5020-114	piston seal	
6	1	AT01-5020-116	bleeder	
7	1	AT01-5020-112	cylinder	

- Item not illustrated



EFFECTIVITY

Aircraft equipped
with Cleveland/
Grove wheels

Brake Caliper Assembly
Figure 5B

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
5B			Brake Caliper Assembly	Cleveland/Grove
		<u>Cleveland calipers</u>		Cleveland
1	1	AT01-5020-611	back plate	
2	2	AT01-5020-353	brake pad	
3	6	AT01-5020-354	rivet	
4	1	AT01-5020-610	pressure plate	
5	1	AT01-5020-600	O-ring (MS28775-218)	
6	1	AT01-5020-612	piston	
7	2	AT01-5020-601	anchor bolt	
8	1	-	caliper body (061-00601)	
9	2	AT01-5020-366	washer (AN960-416)	
10	2	AT01-5020-367	bolt (AN4H-15A)	
11	2	AT01-5020-366	washer (AN960-416)	
12	2	AT01-5020-370	nut (MS21044-N4)	
13	1	AT01-5020-607	seat (bleeder)	
14	1	AT01-5020-608	screw (bleeder)	
15	1	AT01-5020-616	cap (bleeder)	
16	1	AT01-5020-351	torque plate LH	
- 17	1	AT01-5020-352	torque plate RH	
		<u>Grove calipers</u>		Grove
1	1	AT01-5020-618	back plate	
2	2	AT01-5020-360	brake pad	
3	6	AT01-5020-361	rivet	
4	1	AT01-5020-619	pressure plate	
5	1	AT01-5020-600	O-ring (MS28775-218)	
6	1	AT01-5020-617	piston	
7	2	AT01-5020-620	torque pin	
8	1	AT01-5020-621	caliper body	
9	2	AT01-5020-366	washer (AN960-416)	
10	2	AT01-5020-367	bolt (AN4H-15A)	
11	2	AT01-5020-357	washer (AN960-416L)	
12	2	AT01-5020-356	nut (MS21042-4)	
13	1	AT01-5020-615	seat (bleeder)	
14	1	AT01-5020-615	screw (bleeder)	
15	1	AT01-5020-616	cap (bleeder)	
16	1	AT01-5020-358	torque plate LH	
- 17	1	AT01-5020-359	torque plate RH	

- Item not illustrated



AQUILA AT01
ILLUSTRATED PARTS CATALOG

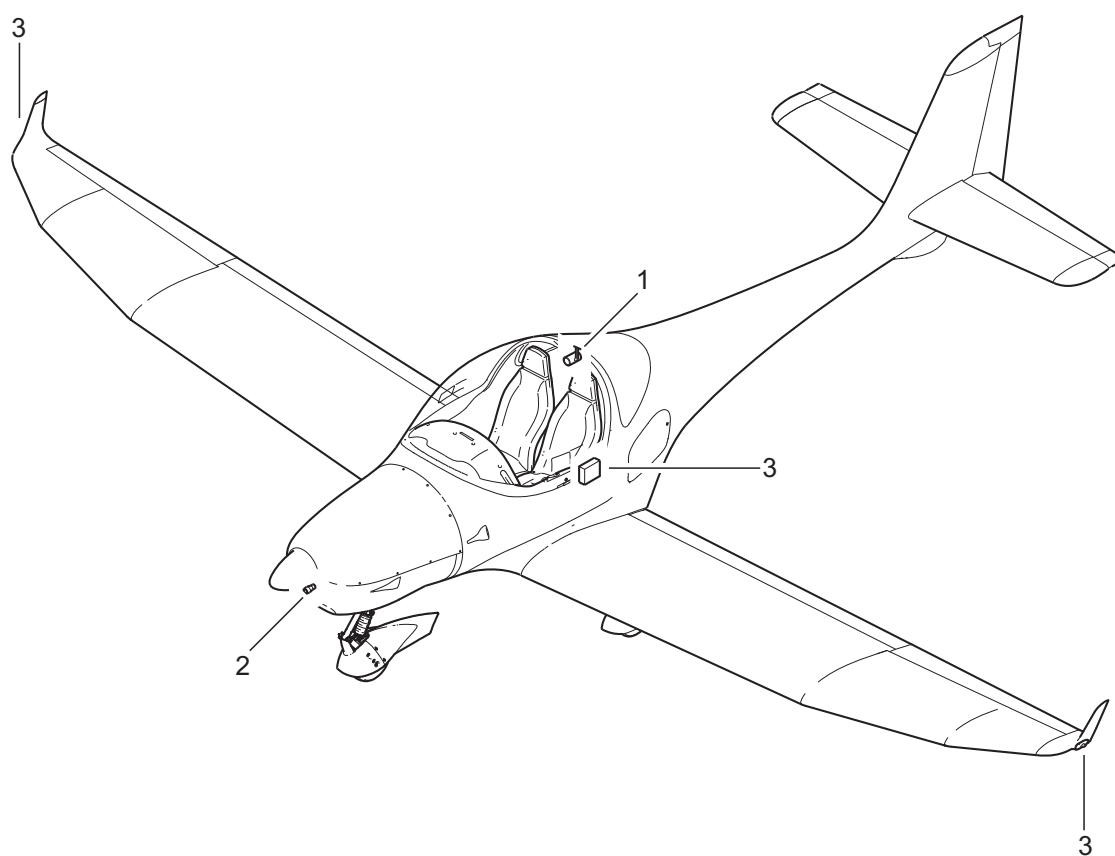
CHAPTER 33

LIGHTS

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LIGHTS
GENERAL



Lights - General
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Lights - General	
	1		Cabin Light (refer to 33-10-00, figure 1 for details)	
	2		Landing Light (refer to 33-40-00, figure 1A for details)	Rotax 912S 101 - 197
	2		Landing Light (refer to 33-40-00, figure 1B for details)	Rotax 912S 198 - 999
	2		Landing Light (refer to 33-40-00, figure 1C for details)	Rotax 914F
	2		Landing Light (refer to 33-40-00, figure 1D for details)	Rotax 912iS
	3		NAV/Strobe Light (refer to 33-40-00, figure 2A for details)	101 - 246 (non LED vers.)
	3		NAV/Strobe Light (refer to 33-40-00, figure 2B for details)	101 - 246 (LED version)
	3		NAV/Strobe Light (refer to 33-40-00, figure 2C for details)	247 - 326
	3		NAV/Strobe Light (refer to 33-40-00, figure 2D for details)	327 - 391 / 395 - 398
	3		NAV/Strobe Light (refer to 33-40-00, figure 2E for details)	392 - 394 / 399 - 999

- Item not illustrated

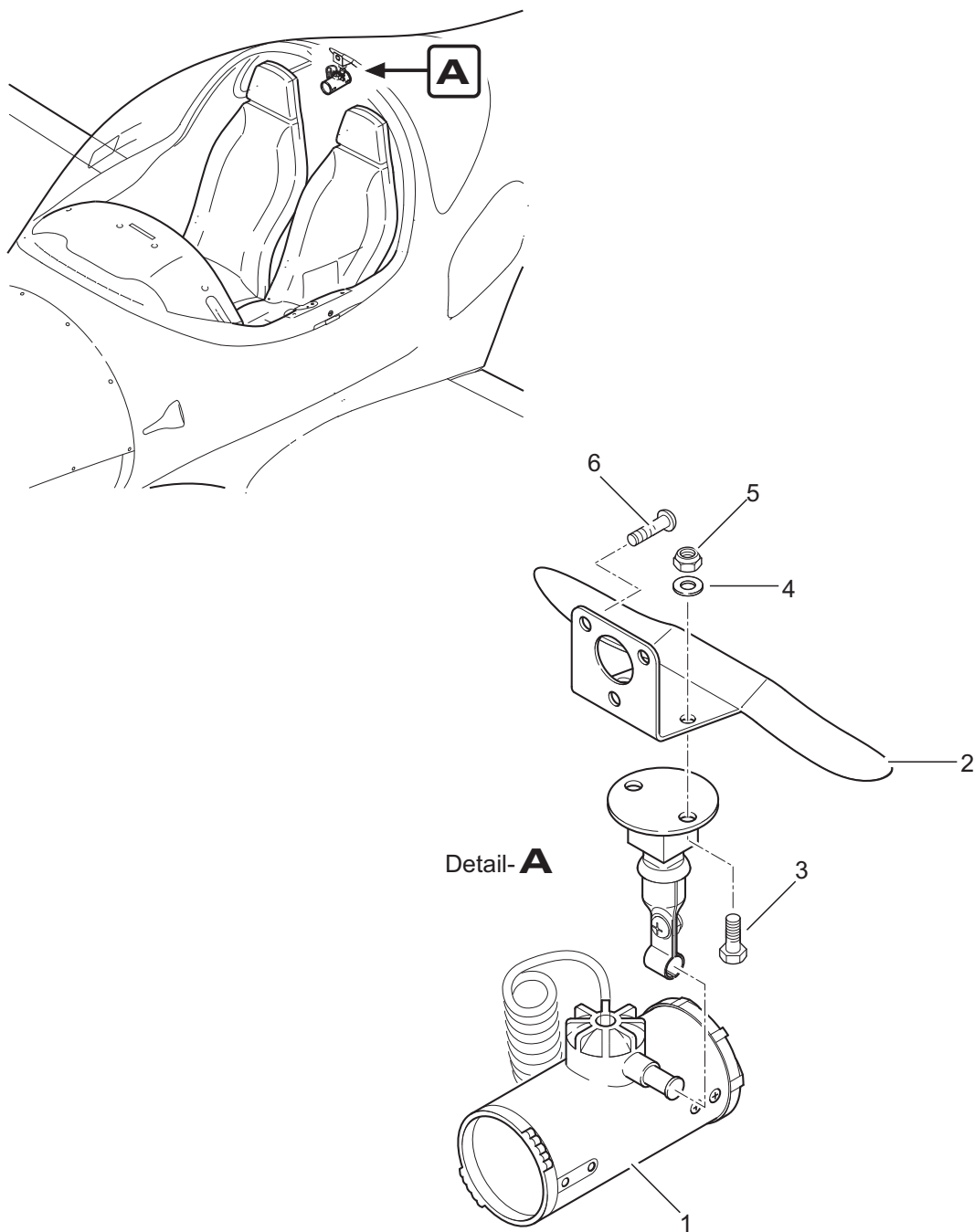
Lights - General
Figure 1

33-00-00

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INTERIOR LIGHTS



Cabin Light
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Cabin Light	
1	1	AT01-9340-100	cockpit light C-4A	
2	1	AT01-2150-123	headset bracket	
3	2	1800933_M5x12	bolt (ISO 4017 M5x12 8.8)	
4	2	1800125_5,3	washer (ISO 7089 5,3x10)	
5	2	1800985_M5	locknut (ISO 10511 M5)	
6	3	1807380_5x16ULS	bolt (ISO 7380 M5x16 ULS)	

- Item not illustrated

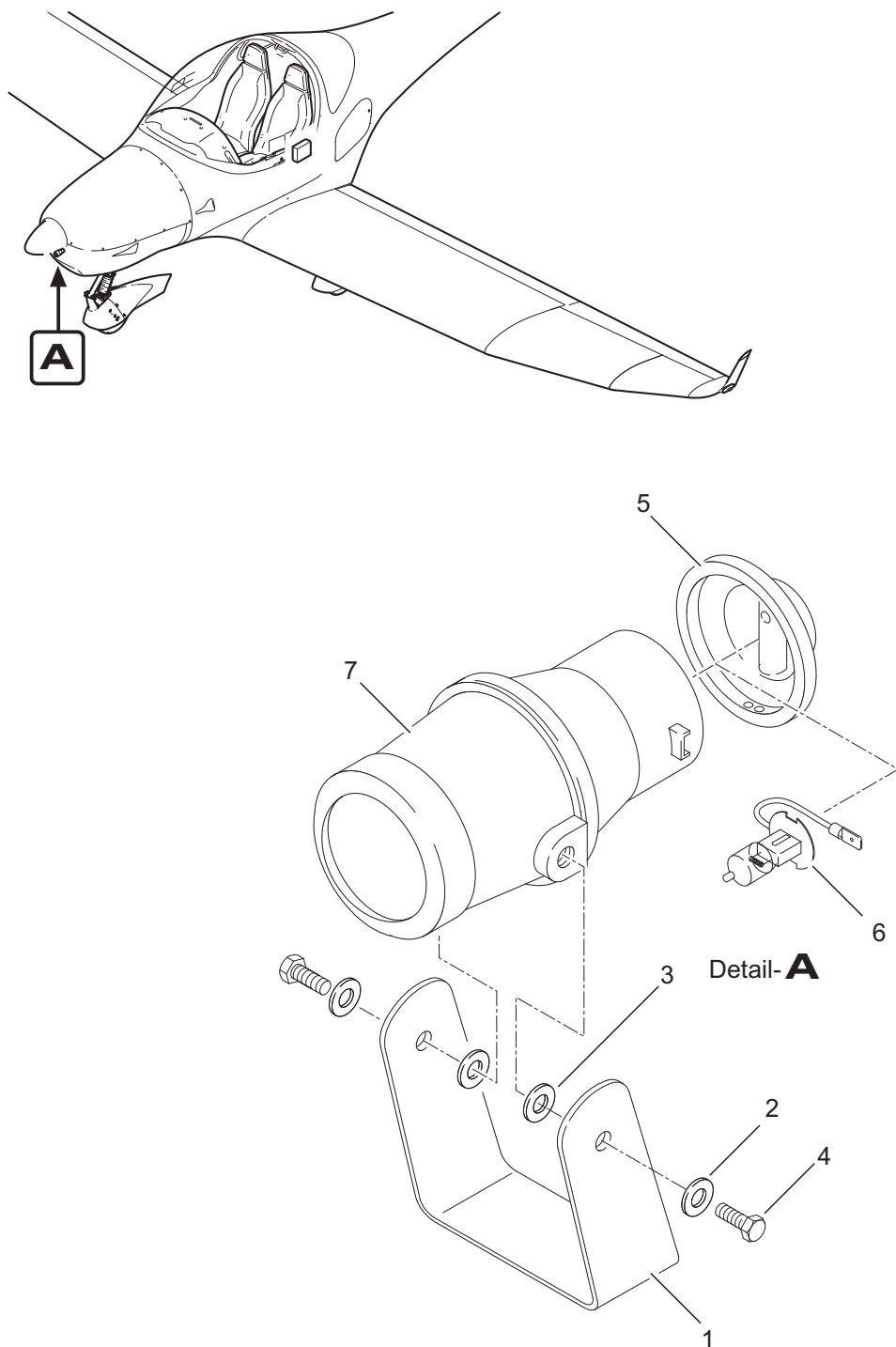
Cabin Light
Figure 1

33-10-00

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EXTERIOR LIGHTS



EFFECTIVITY

Aircraft equipped
with Rotax 912S
101 - 197

Landing Light
Figure 1A

33-40-00

Page 2A

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1A			Landing Light	Rotax 912S 101 - 197
1	1	AT01-9330-100	mounting bracket	
2	2	1800125_5,3	washer (ISO 7089 5,3x10)	
3	2	1809021_5,3	washer (ISO 7093 5,3x15)	
4	2	1800933_M5x14	screw (ISO 4017 M5x14 8.8)	
5	1	AT01-9330-002	rubber cap	
6	1	AT01-4530-040	light bulb	
7	1	AT01-9330-001	landing light	

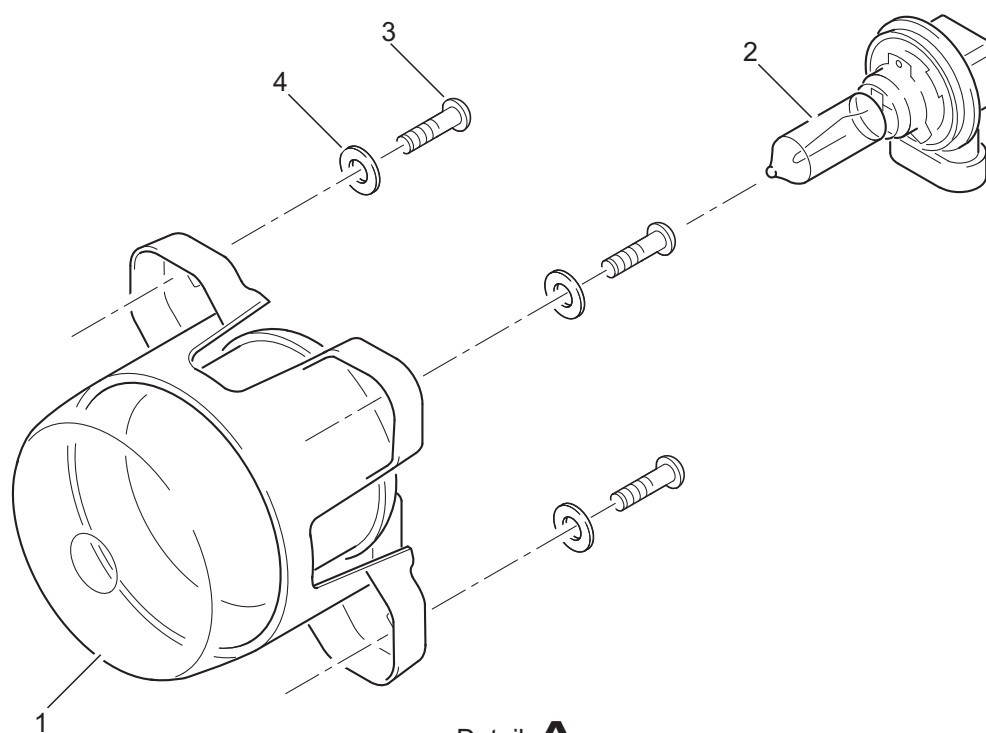
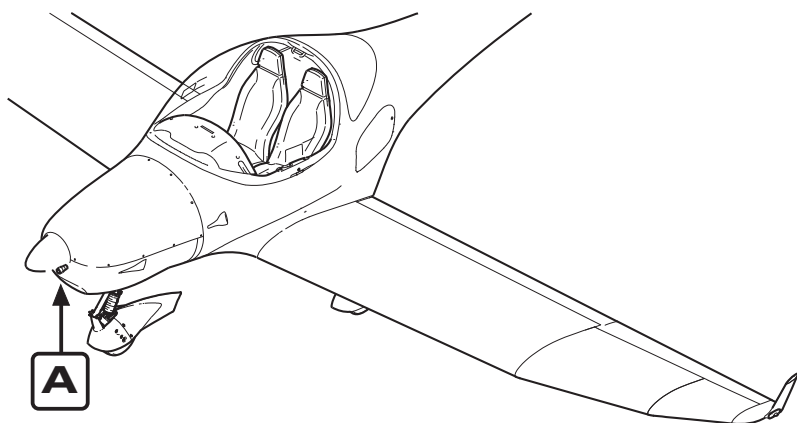
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Landing Light
Figure 1A

33-40-00

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Detail- **A**

EFFECTIVITY

Aircraft equipped
with Rotax 912S
198 - 999

Landing Light
Figure 1B

33-40-00

Page 2B

31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1B			Landing Light	Rotax 912S 198 - 999
1	1	AT01-9330-003	landing light	
2	1	AT01-9330-004	light bulb	
3	3	1807380_M5x25ULF	bolt (ISO 7380 M5x25 ULF)	
4	3	1809021_5,3	washer (ISO 7093 5,3x15)	

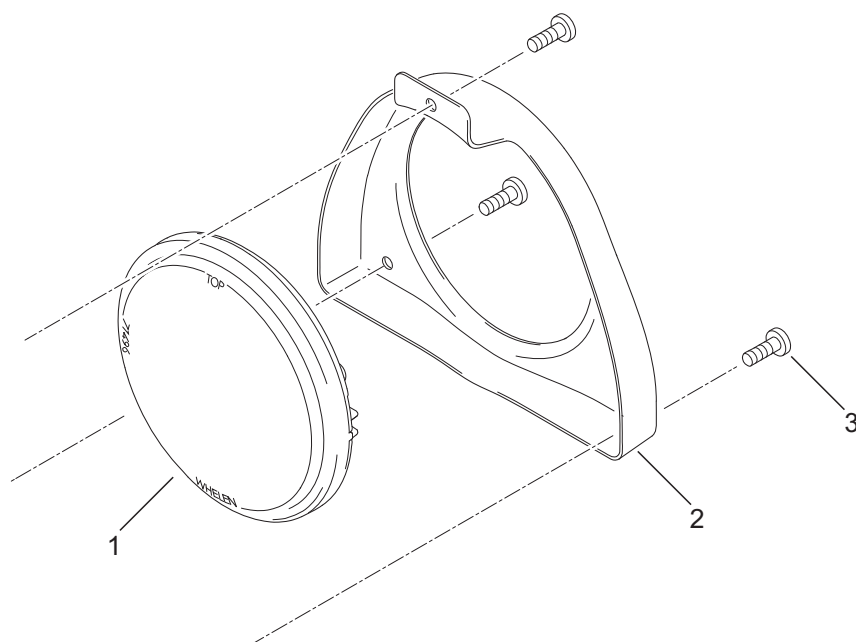
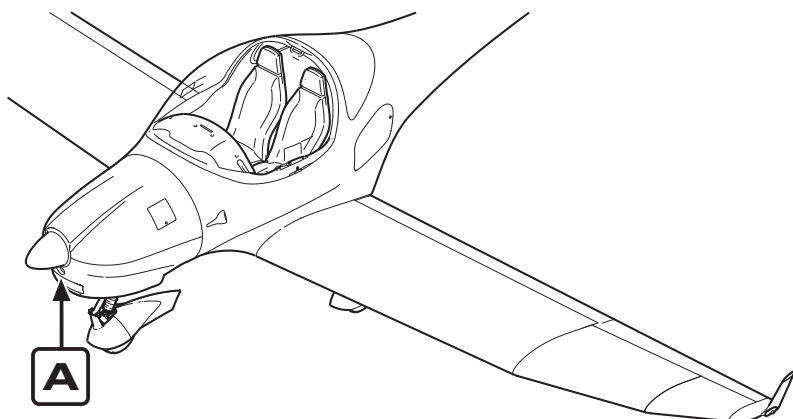
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Landing Light
Figure 1B

33-40-00

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Detail-**A**

EFFECTIVITY

Aircraft equipped
with Rotax 914F

Landing Light
Figure 1C

33-40-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1C			Landing Light	Rotax 914F
	1	AT01-9330-104	landing light	
	2	AT01-2130-059	mounting bracket	
	3	1807380_M5x16ULF	bolt (ISO 7380 M5x16 ULF)	

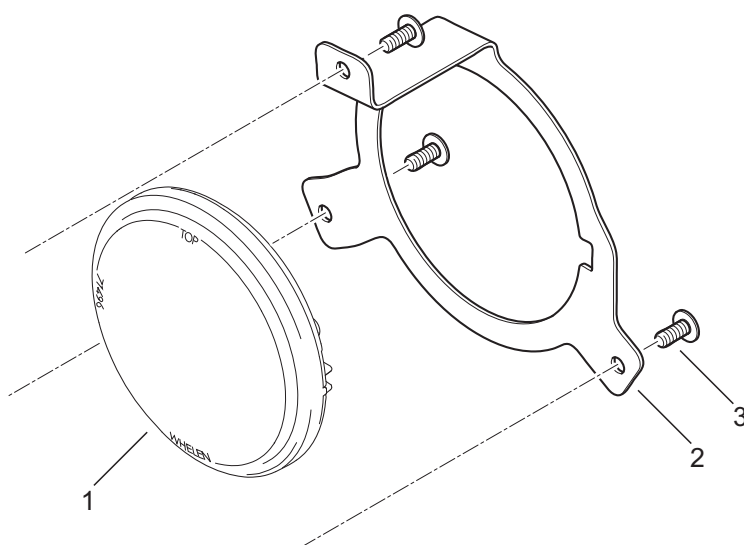
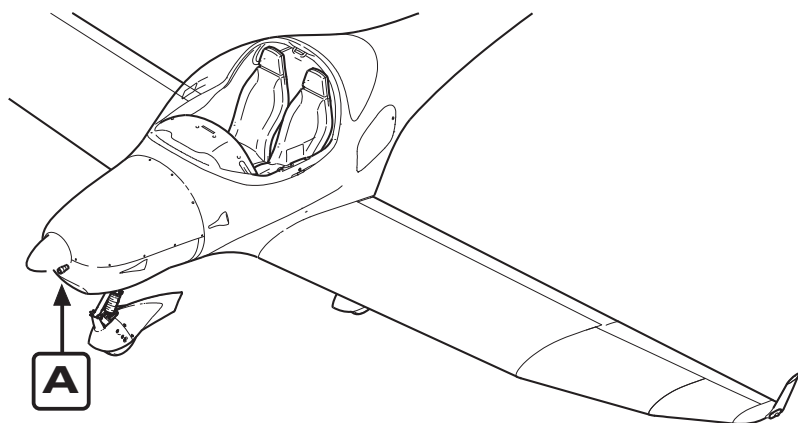
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Landing Light
Figure 1C

33-40-00

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Detail-**A**

EFFECTIVITY

Aircraft equipped
with Rotax 912iS

Landing Light
Figure 1D

33-40-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1D			Landing Light	Rotax 912iS
1	1	AT01-9330-104	landing light	
2	1	AT01-2130-059	mounting bracket	
3	3	1807380_M5x12ULF	bolt (ISO 7380 M5x12 ULF)	

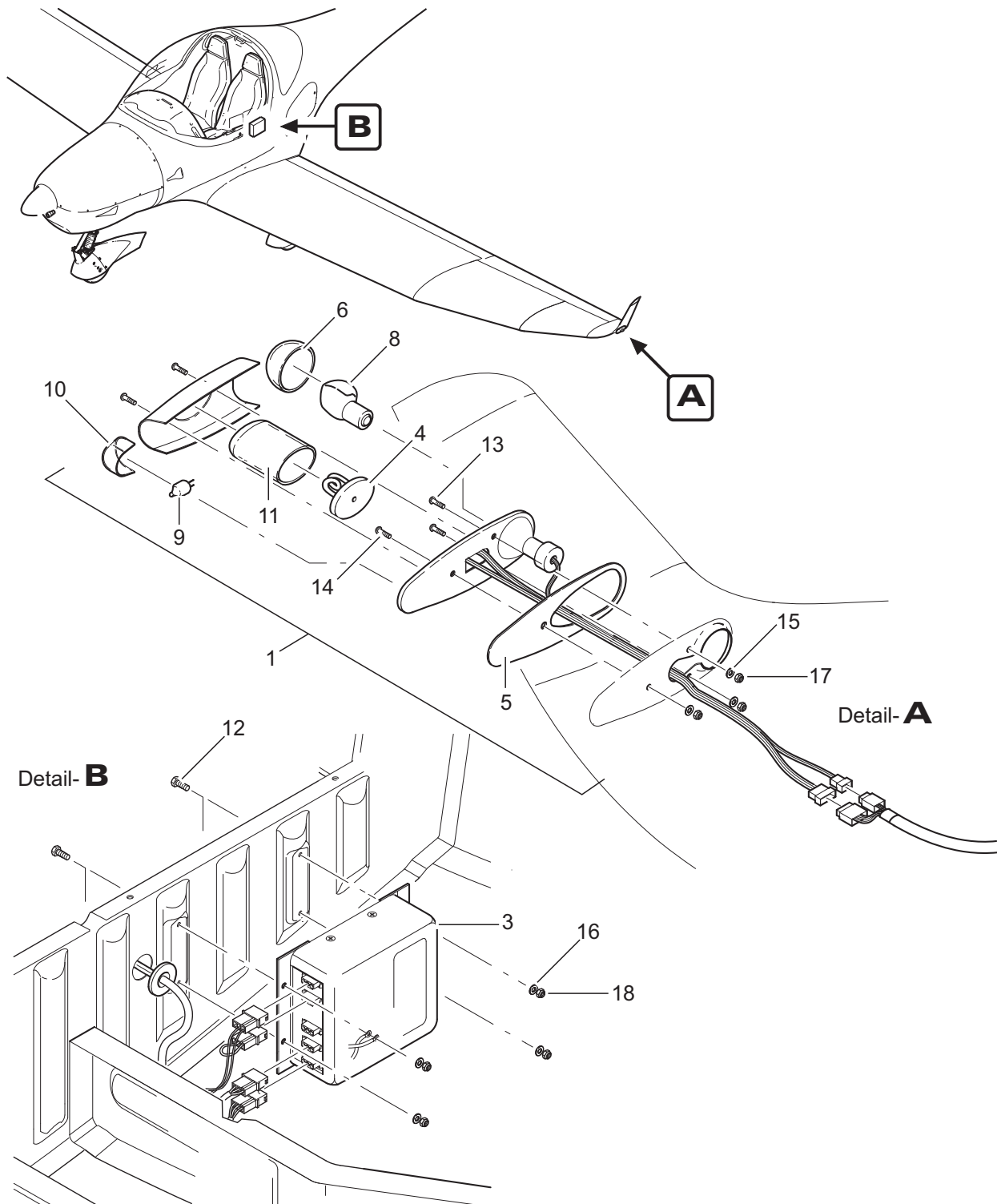
- Item not illustrated

Landing Light
Figure 1D

33-40-00

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EFFECTIVITY

101 - 246
(non LED version)

NAV/Strobe Light
Figure 2A

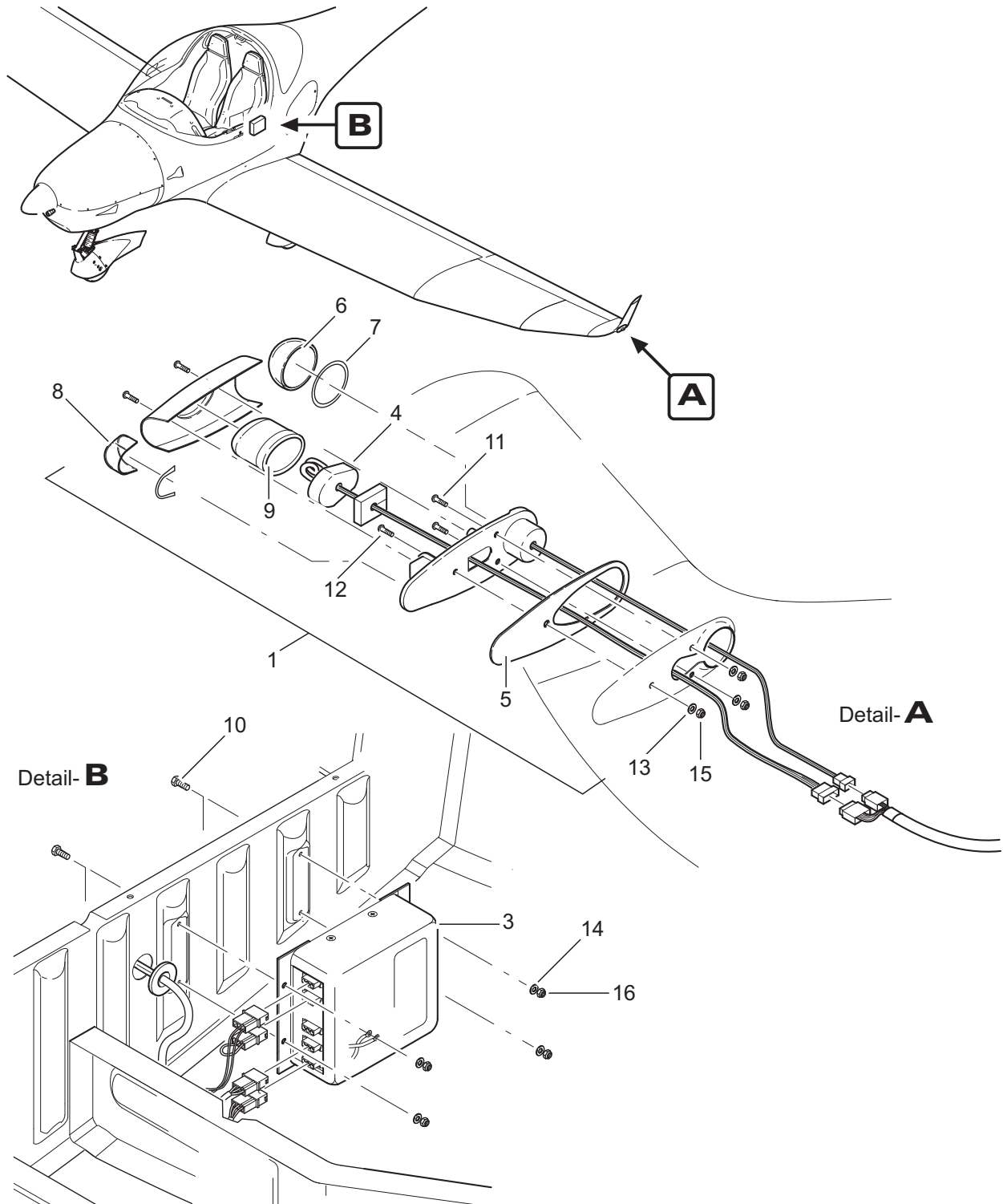
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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2A			NAV/Strobe Light	101 - 246 / 1) (non LED ver.)
1	1	AT01-9310-105	NAV/strobe light LH/red (Whelen A600PR-14)	
- 2	1	AT01-9310-104	NAV/strobe light RH/green (Whelen A600PG-14)	
3	1	AT01-9310-100	strobe power supply assembly	
4	1	AT01-9320-100	strobe light A610	
5	1	AT01-9310-106	gasket	
6	1	AT01-9310-107	position light lens red	
- 7	1	AT01-9310-108	position light lens green	
8	1	AT01-9310-110	position light bulb	
9	1	AT01-9310-111	light bulb	
10	1	AT01-9310-112	tail position light lens	
11	1	AT01-9310-113	strobe light lens	
12	4	1800933_M4x12	screw (ISO 4017 M4x12 8.8)	
13	2	1800933_M4x16	screw (ISO 4017 M4x16 8.8)	
14	1	1800965_M4x16	screw (ISO 7046 M4x16)	
15	3	1809021_4,3	washer (ISO 7093 4,3x12)	
16	4	1809021_5,3	washer (ISO 7093 5,3x15)	
17	3	1800985_M4	locknut (ISO 10511 M4)	
18	4	1800985_M5	locknut (ISO 10511 M5)	

1) Refer to SI-AT01-026 for a retrofit of Whelen Orion NAV/strobe lights.



EFFECTIVITY

101 - 246
(LED version)

NAV/Strobe Light
Figure 2B

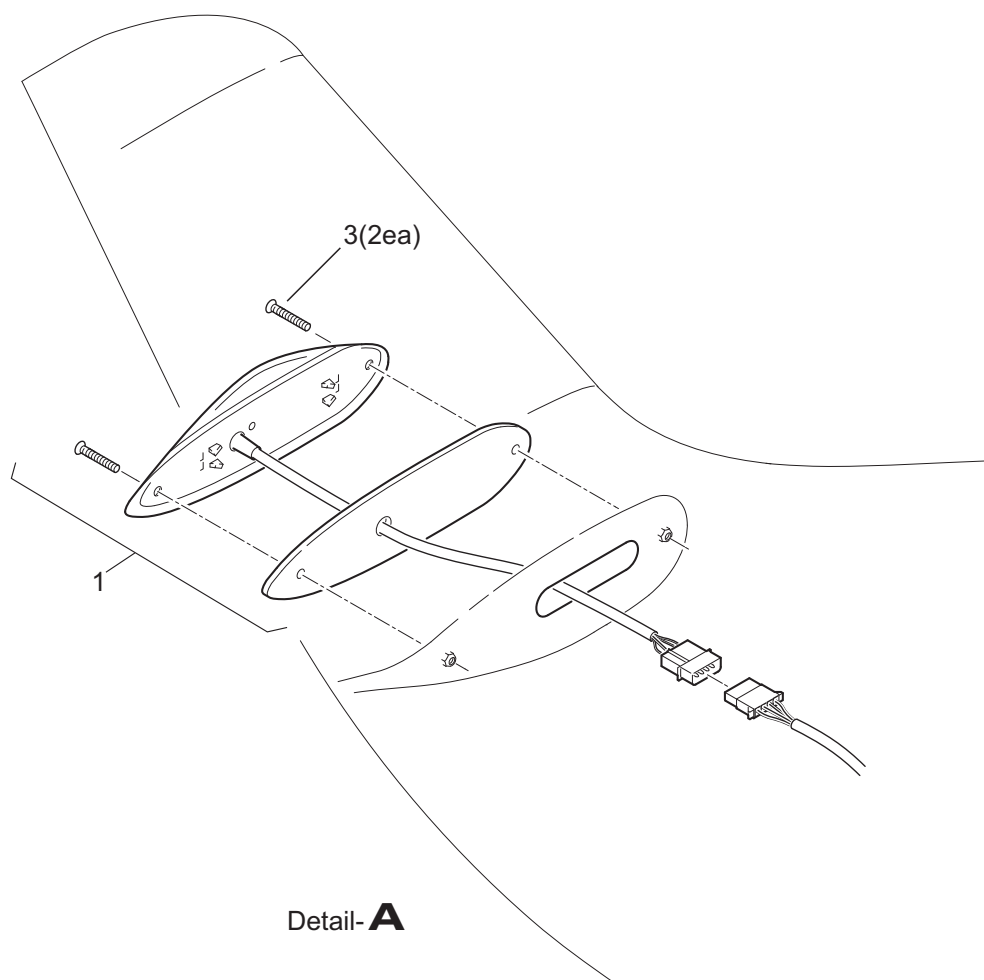
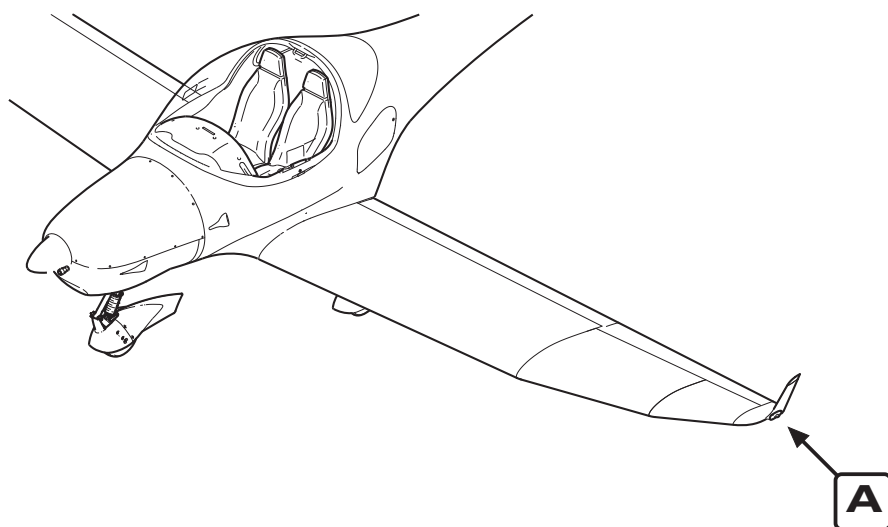
33-40-00

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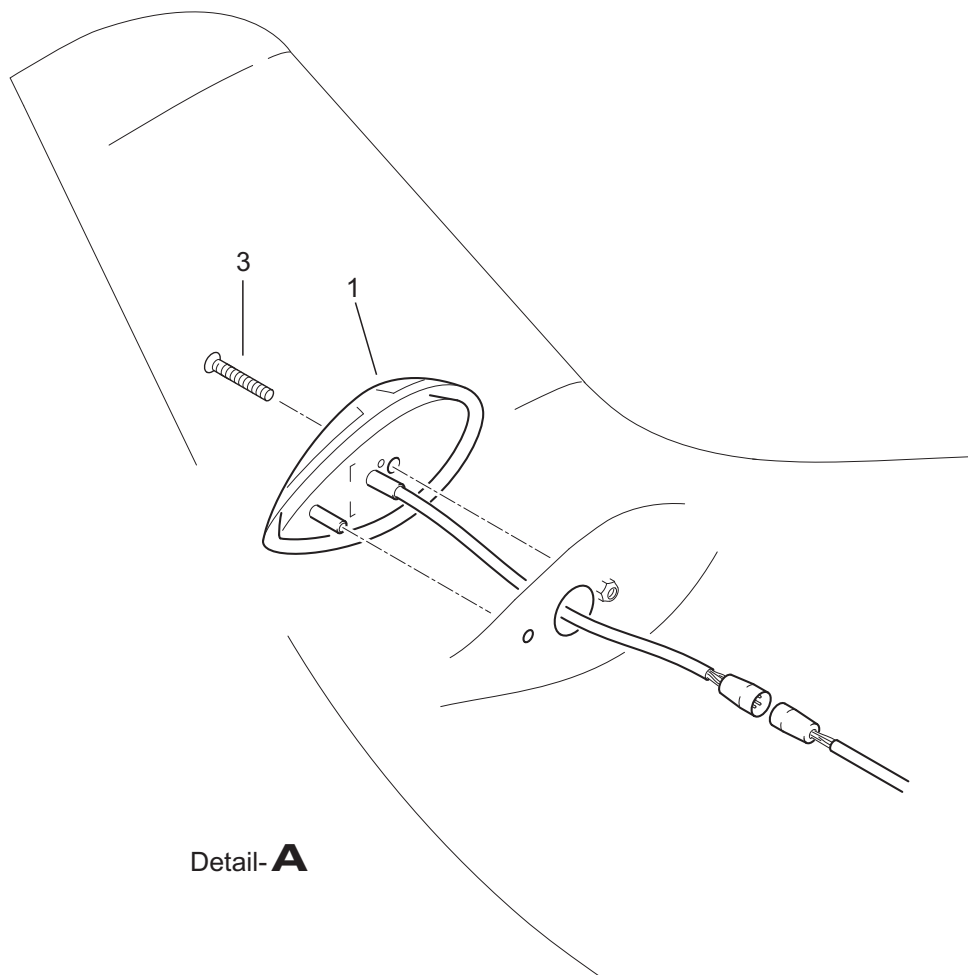
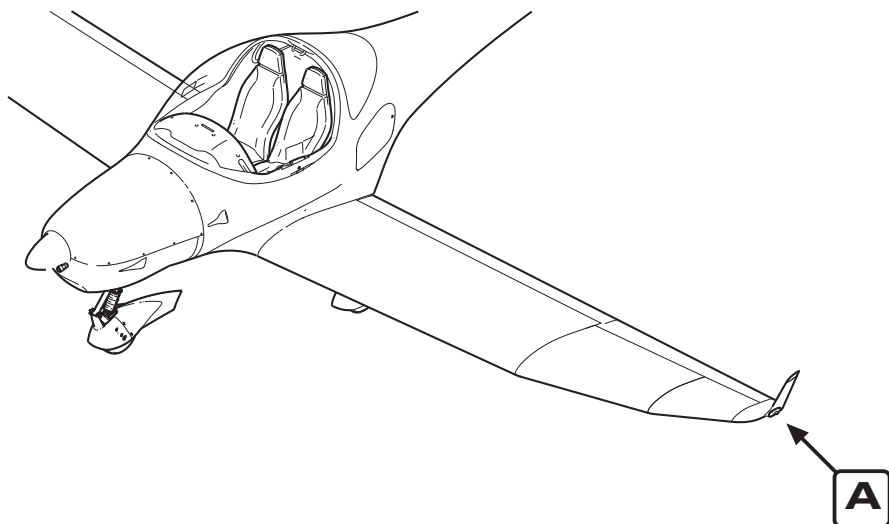
Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2B			NAV/Strobe Light	101 - 246 / 1) (LED version)
1	1	AT01-9310-124	NAV/strobe light LH/red (Whelen 90340 Series)	
- 2	1	AT01-9310-123	NAV/strobe light RH/green (Whelen 90340 Series)	
3	1	AT01-9310-100	strobe power supply assembly	
4	1	AT01-9320-100	strobe light A610	
5	1	AT01-9310-106	gasket	
6	1	AT01-9310-133	position light lens clear	
7	1	AT01-9310-134	gasket position light split	
8	1	AT01-9310-117	tail position light lens	
9	1	AT01-9310-113	strobe light lens	
10	4	1800933_M4x12	screw (ISO 4017 M4x12 8.8)	
11	2	1800933_M4x16	screw (ISO 4017 M4x16 8.8)	
12	1	1800965_M4x16	screw (ISO 7046 M4x16)	
13	3	1809021_4,3	washer (ISO 7093 4,3x12)	
14	4	1809021_5,3	washer (ISO 7093 5,3x15)	
15	3	1800985_M4	locknut (ISO 10511 M4)	
16	4	1800985_M5	locknut (ISO 10511 M5)	

1) Refer to SI-AT01-026 for a retrofit of Whelen Orion NAV/strobe lights.



Detail-**A**

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2C			NAV/Strobe Light	247 - 326 / 1)
1	1	AT01-9310-128	NAV/strobe light LH/red (Aveo Andromeda Aurora / incl. item 3)	
-2	1	AT01-9310-129	NAV/strobe light RH/green (Aveo Andromeda Aurora / incl. item 3)	
3	2	1800965_M3x20	bolt (ISO 7046 M3x20 A2)	
1) Refer to SI-AT01-026 for a retrofit of Whelen Orion NAV/strobe lights.				



Detail-**A**

EFFECTIVITY

327 - 391
395 - 398

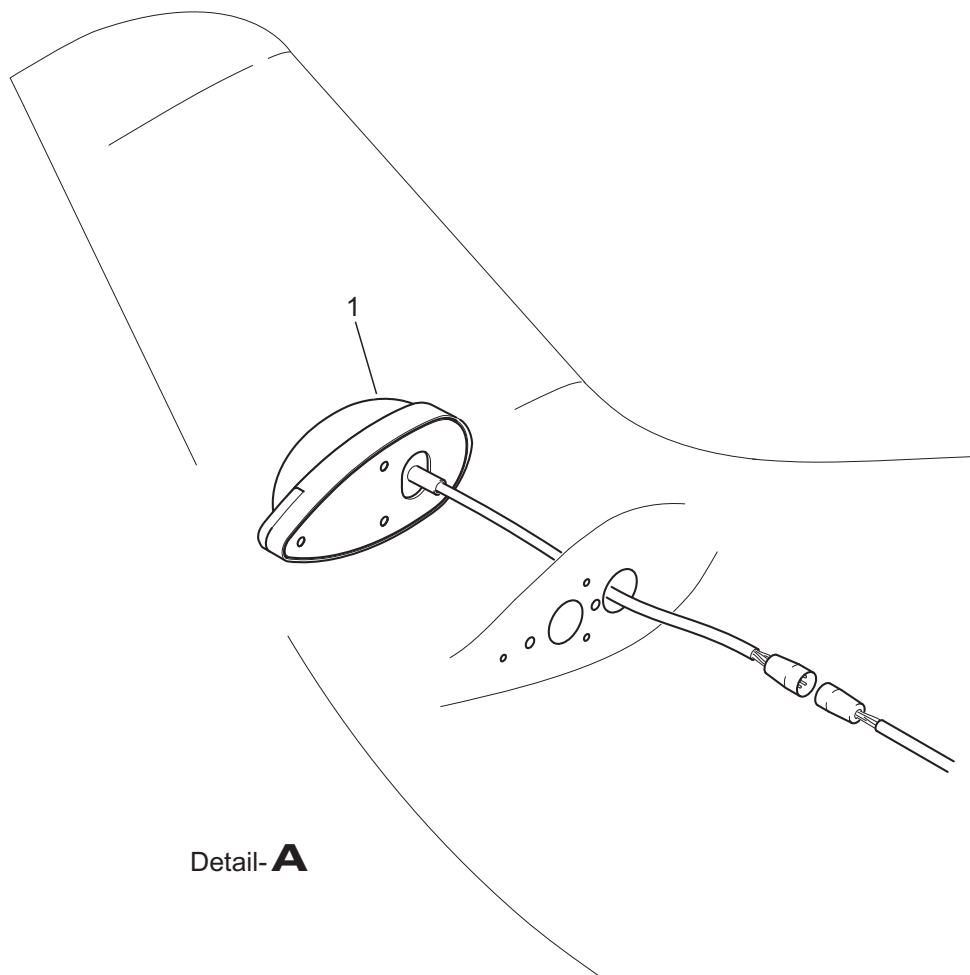
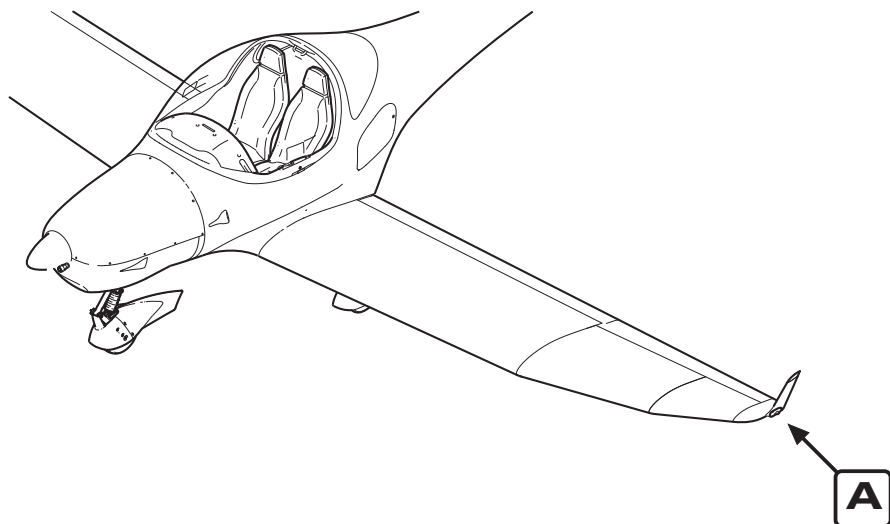
NAV/Strobe Light
Figure 2D

33-40-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2D			NAV/Strobe Light	327 - 391 395 - 398 / 1)
1	1	AT01-9310-030	NAV/strobe light LH/red (Aveo Ultra Galactica / incl. item 3)	
-2	1	AT01-9310-031	NAV/strobe light RH/green (Aveo Ultra Galactica / incl. item 3)	
3	1	1807984_5x45 A2	bolt (ISO 14580 M5x45 A2)	
1) Refer to SI-AT01-026 for a retrofit of Whelen Orion NAV/strobe lights.				



Detail-**A**

EFFECTIVITY

392 - 394
399 - 999

NAV/Strobe Light
Figure 2E

33-40-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2E			NAV/Strobe Light	392 - 394 399 - 999 / 1)
1	1	AT01-9310-037	NAV/strobe light LH/red (Whelen Orion 660)	
-2	1	AT01-9310-038	NAV/strobe light RH/green (Whelen Orion 660)	
-3	3	1807337B_3,2x8 Al/St	rivet (ISO 15978 3,2x8 Al/St)	

1) Refer to SI-AT01-026 for a retrofit of Whelen Orion NAV/strobe lights.



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ILLUSTRATED PARTS CATALOG

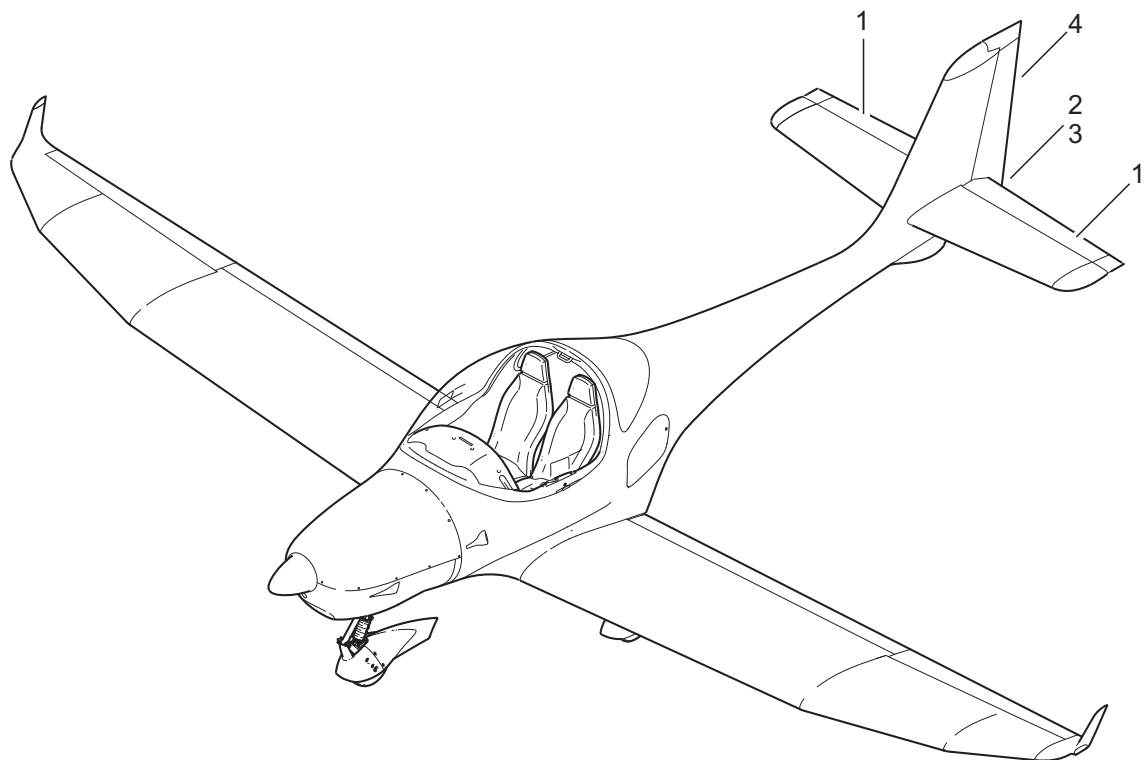
CHAPTER 55

STABILIZERS

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STABILIZERS
GENERAL



Stabilizers - General
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Stabilizers - General	
	1		Outer Elevator Installation (refer to 55-20-00, figure 1 for details)	
	2		Central Elevator Installation (refer to 55-20-00, figure 2 for details)	
	3		Lower Rudder Installation (refer to 55-40-00, figure 1 for details)	
	4		Upper Rudder Installation (refer to 55-40-00, figure 2 for details)	

- Item not illustrated

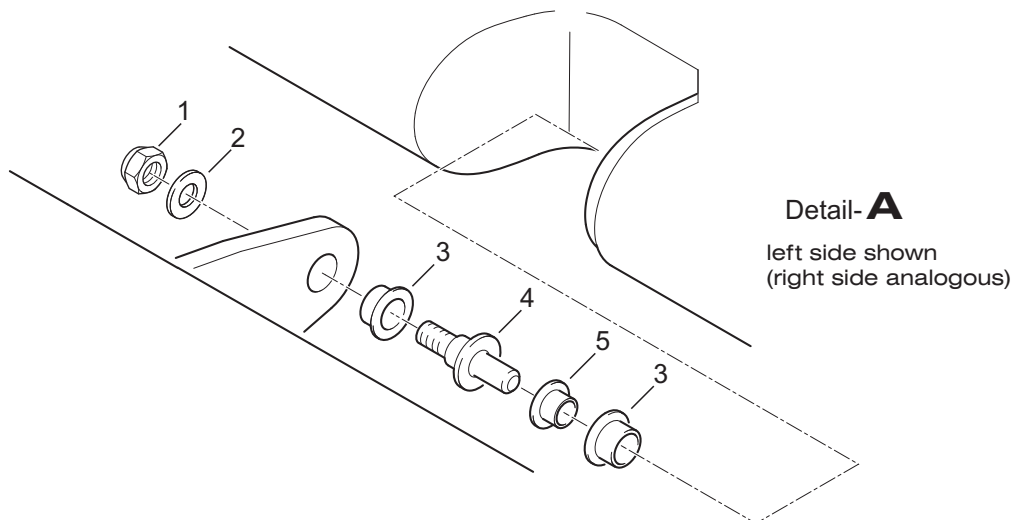
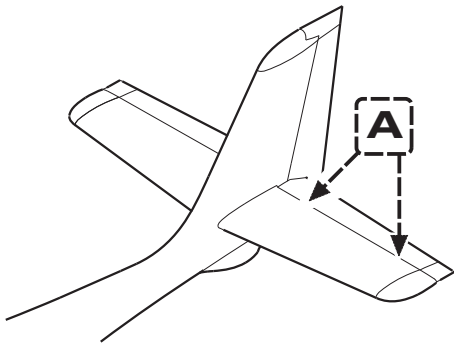
Stabilizers - General
Figure 1

55-00-00

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ELEVATOR



Outer Elevator Installation
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Outer Elevator Installation	
1	2	1800985_M6	locknut (ISO 10511 M6)	
2	2	1809021_6,4	washer (ISO 7093 6,4x18)	
3	4	AT01-4510-116	bearing bush	
4	2	AT01-4510-114	bearing pin	
5	2	1850010	collar bushing (PAF 06070 P10 INA)	

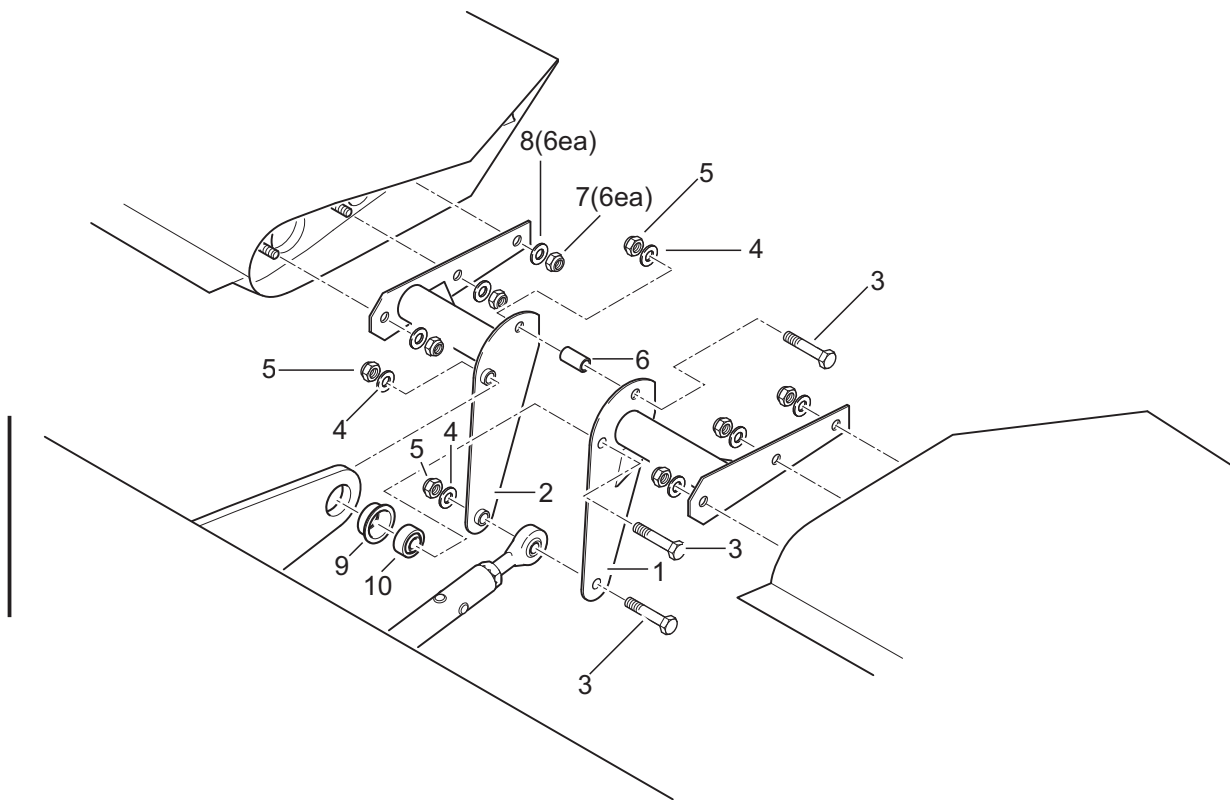
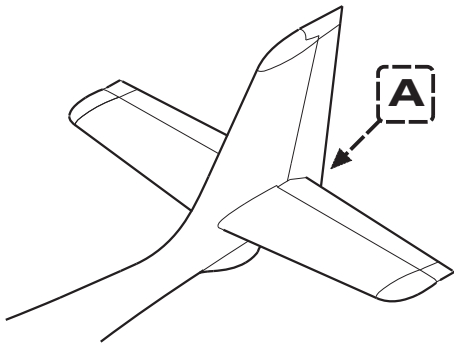
- Item not illustrated

Outer Elevator Installation
Figure 1

55-20-00

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Detail- **A**

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			Central Elevator Installation	
1	1	AT01-3130-001	elevator bellcrank LH	
2	1	AT01-3130-002	elevator bellcrank RH	
3	3	1809037_06030	bolt (LN 9037 M6x30)	
4	3	1800125_6,4	washer (ISO 7089 6,4x12)	
5	3	1800985_M6	locknut (ISO 10511 M6)	
6	1	AT01-3130-107	spacer sleeve	
7	6	1800985_M5	locknut (ISO 10511 M5)	
8	6	1809021_5,3	washer (ISO 7093 5,3x15)	
9	1	AT01-4510-111	bearing bush	
10	1	AT01-1850-101	bearing (glued into the bushing with Loctite 648)	

- Item not illustrated

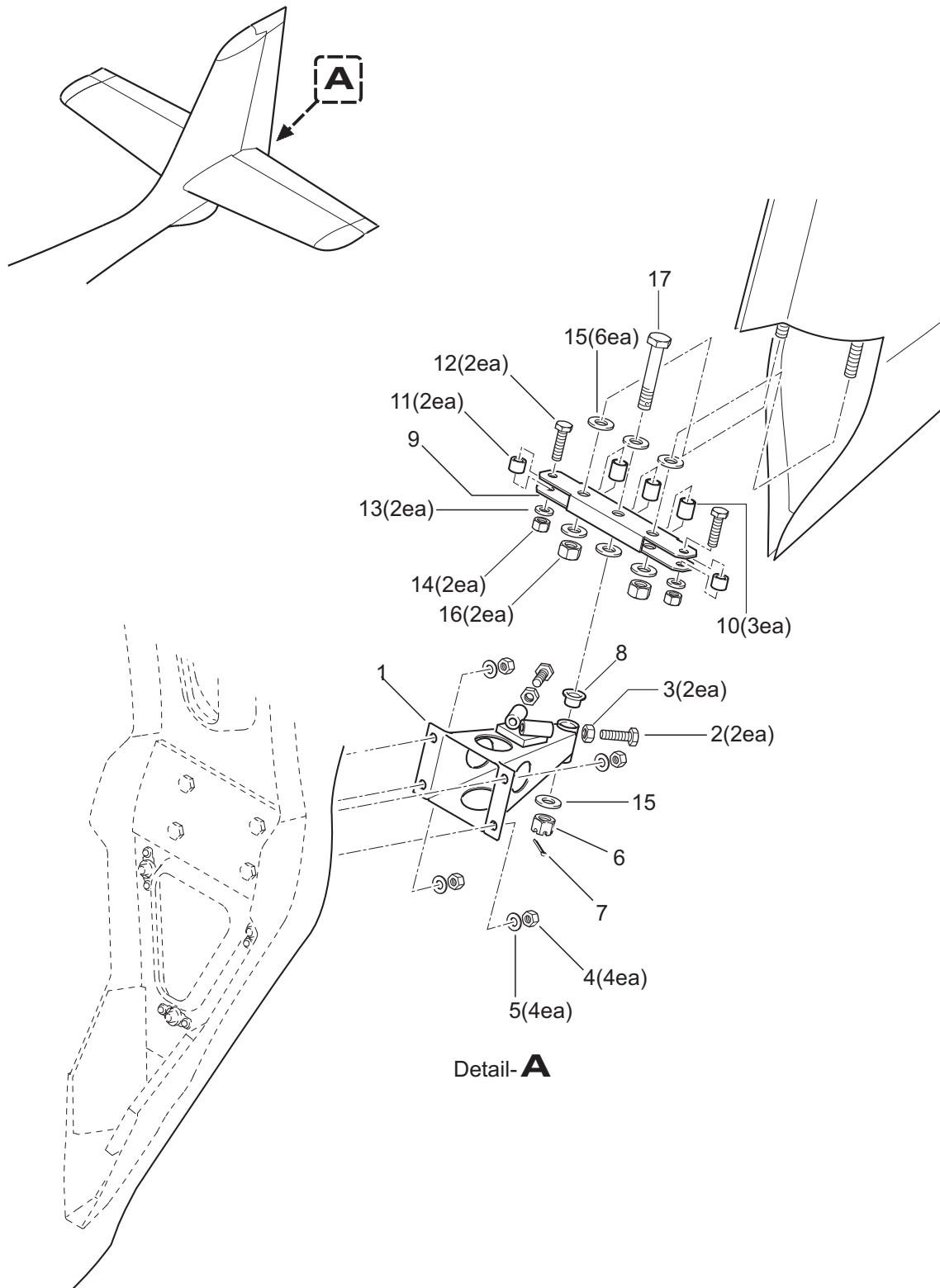
Central Elevator Installation
Figure 2

55-20-00

Page 5

31.05.24

RUDDER



Lower Rudder Installation
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Lower Rudder Installation	
1	1	AT01-3230-001	bearing block	
2	2	1800933_M6x20	bolt (ISO 4017 M6x20 8.8)	
3	2	1800934_M6	nut (ISO 4032 M6)	
4	4	1800985_M6	locknut (ISO 10511 M6)	198 - 999 / 1)
5	4	1800125_6,4	washer (ISO 7089 6,4x12)	198 - 999 / 1)
6	1	1800935_M8	castellated nut (ISO 7035 M8)	
7	1	1800094_2x16	split pin (ISO 1234 2x16)	
8	1	1850011	collar bushing (PAF 08075 P10 INA)	
9	1	AT01-3300-103	rudder actuation lever (incl. items 10, 17)	
10	3	AT01-3300-104	spacer tube	
11	2	AT01-4510-125	spacer sleeve	
12	2	1809037_06022	bolt (LN 9037 M6x22)	
13	2	1800125_6,4	washer (ISO 7089 6,4x12)	
14	2	1800985_M6	locknut (ISO 10511 M6)	
15	7	1800125_8,4	washer (ISO 7089 8,4x16)	
16	2	1800985_M8	locknut (ISO 10511 M8)	
17	1	AT01-3300-109	bolt	
1) Attachment of bearing block S/N 101 - 197 without stud bolts:				
-18	4	1800933_M6x25	bolt (ISO 4017 M6x25 8.8)	
-19	4	1809021_6,4	washer (ISO 7093 6,4x18)	
-20	4	1800985_M6	locknut (ISO 10511 M6)	

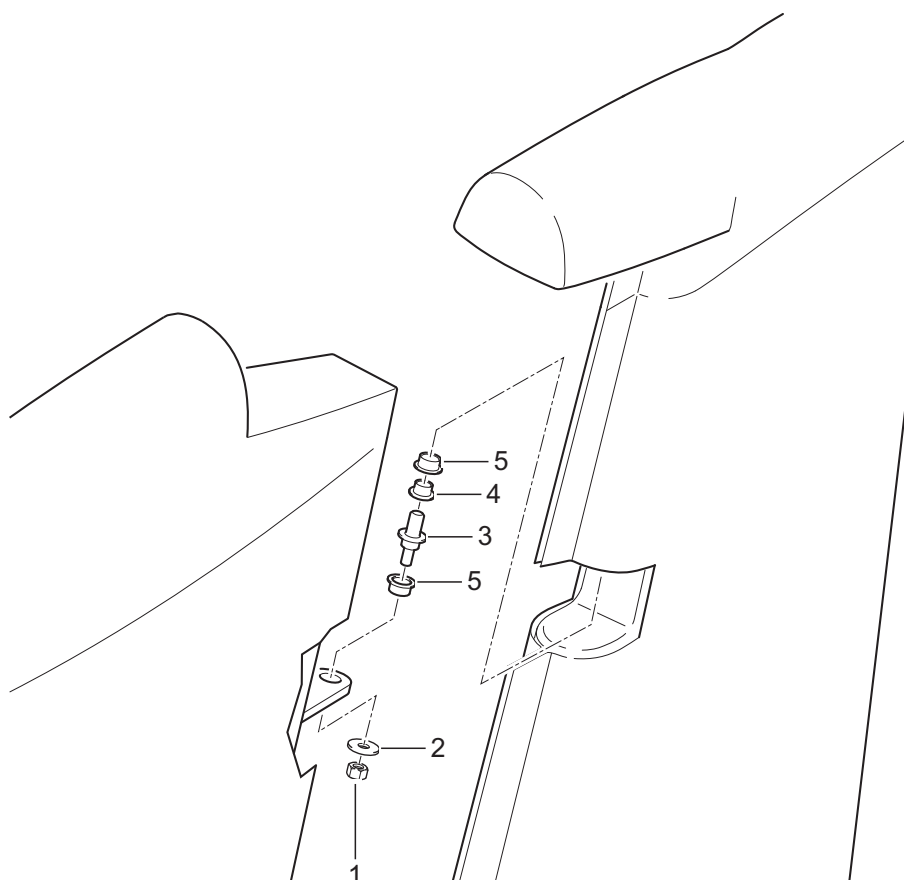
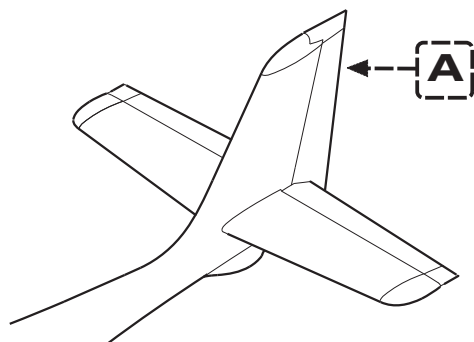
- Item not illustrated

Lower Rudder Installation
Figure 1

55-40-00

Page 3

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Detail- **A**

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			Upper Rudder Installation	
1	1	1800985_M6	locknut (ISO 10511 M6)	
2	1	1809021_6,4	washer (ISO 7093 6,4x18)	
3	1	AT01-4510-106	bearing pin	
4	1	1850011	collar bushing (PAF 08075 P10 INA)	
5	2	AT01-4510-113	bearing bush	

- Item not illustrated

Upper Rudder Installation
Figure 2

55-40-00

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AQUILA AT01
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CHAPTER 56

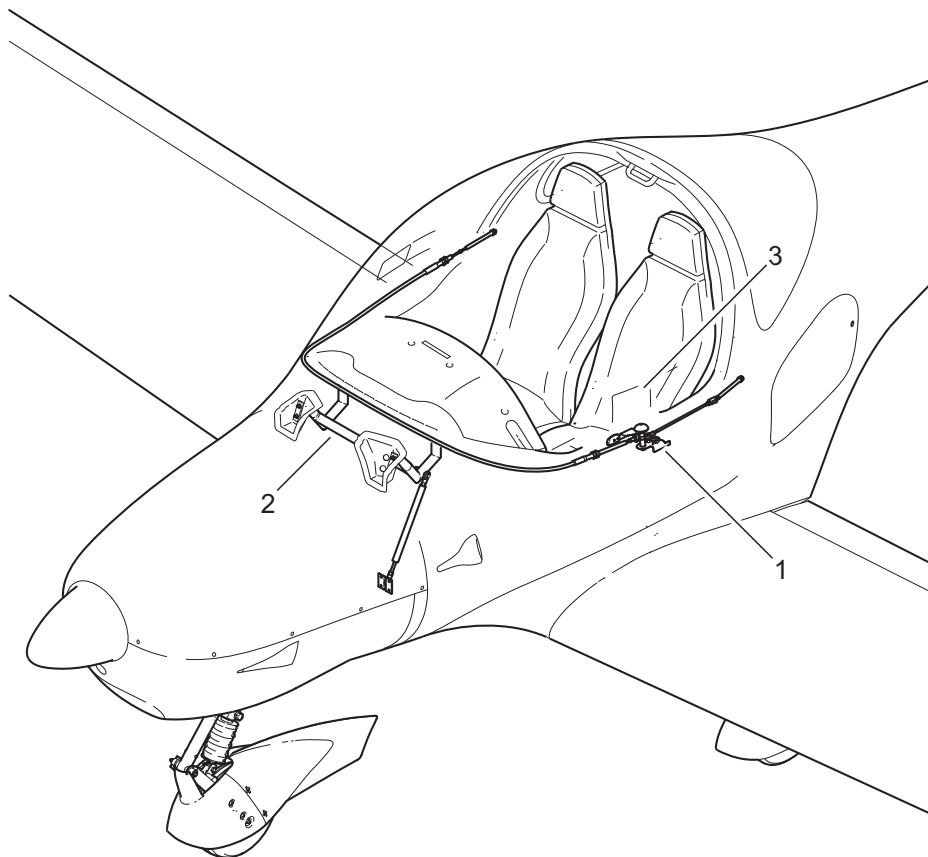
WINDOWS

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Canopy Hinge Bracket	56-10-00	6	
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CANOPY



Canopy - General
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Canopy - General	
	1		Canopy Latching Mechanism (refer to 56-10-00, figure 2A for details)	101 - 196
	1		Canopy Latching Mechanism (refer to 56-10-00, figure 2B for details)	197 - 999
	2		Canopy Hinge Bracket (refer to 56-10-00, figure 3 for details)	
	3		Canopy Frame / Glass (refer to 56-10-00, figure 4 for details)	

- Item not illustrated

Canopy - General
Figure 1

56-10-00

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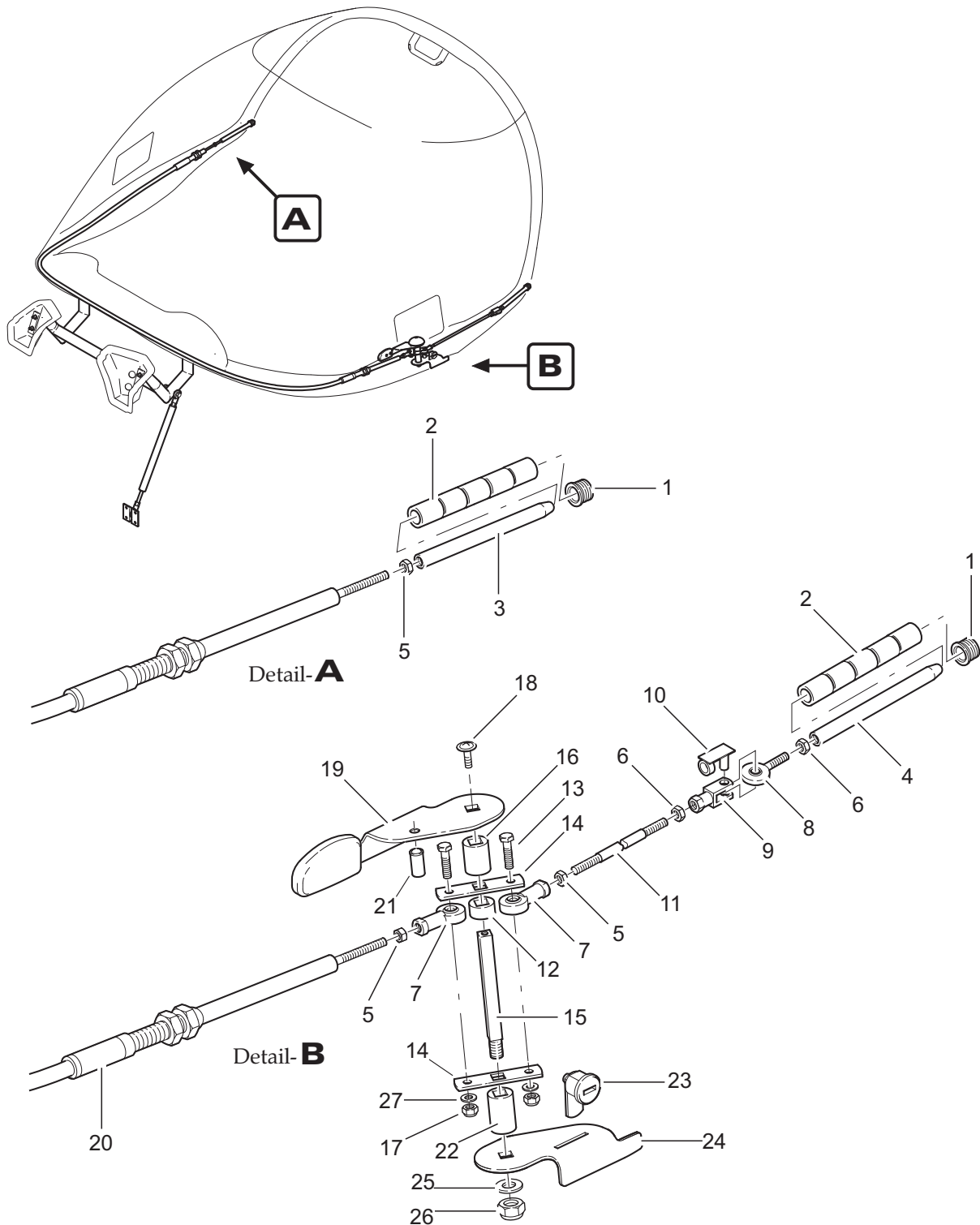


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2A			Canopy Latching Mechanism	101 - 196
1	2	AT01-2340-103	bush for locking bolt	
2	2	AT01-2340-112	bearing bush for locking bolt	
3	1	AT01-2340-105	locking bolt RH	
4	1	AT01-2340-101	locking bolt LH	
5	3	1800934_M5	nut (DIN 934 M5)	
6	2	1800934_M6	nut (DIN 934 M6)	
7	2	AT01-1850-115	swivel head (internal thread M5)	
8	1	AT01-1850-118	swivel head (external thread M6)	
9	1	AT01-1850-206	fork head	
10	1	AT01-1850-207	fork head bolt	
11	1	AT01-2340-113	pushrod	
12	1	AT01-2340-109	spacer sleeve	
13	2	1809037_05020	bolt (LN 9037 M5x20)	
14	2	AT01-2340-108	drive plate	
15	1	AT01-2340-111	drive shaft	
16	1	AT01-2340-115	drive shaft bearing (top)	
17	2	1800985_M5	locknut (ISO 10511 M5)	
18	1	1807380_6x10	bolt (ISO 7380 M6x10)	
19	1	AT01-2340-009	top/inside handle for canopy latching	
20	1	AT01-2340-005	drive cable for canopy latching	
21	1	AT01-1860-110	plunger M10x22	
22	1	AT01-2340-110	drive shaft bearing (bottom)	
23	1	AT01-2340-100	canopy lock	
24	1	AT01-2340-107	bottom/outside handle for canopy latching	
25	1	1800125_8,4	washer (ISO 7089 8,4x16)	
26	1	1800985_M8	locknut (ISO 10511 M8)	
27	2	1800125_5,3	washer (ISO 7089 5,3x10)	

Service Kits & Tools

AT01-9600-109	drive cable for canopy latching (one side crimped)
AT01-9600-108	steel end M5 (to crimp on)

Refer to SL-AT01-002 for canopy latching drive cable exchange.

- Item not illustrated

Canopy Latching Mechanism
Figure 2A

56-10-00

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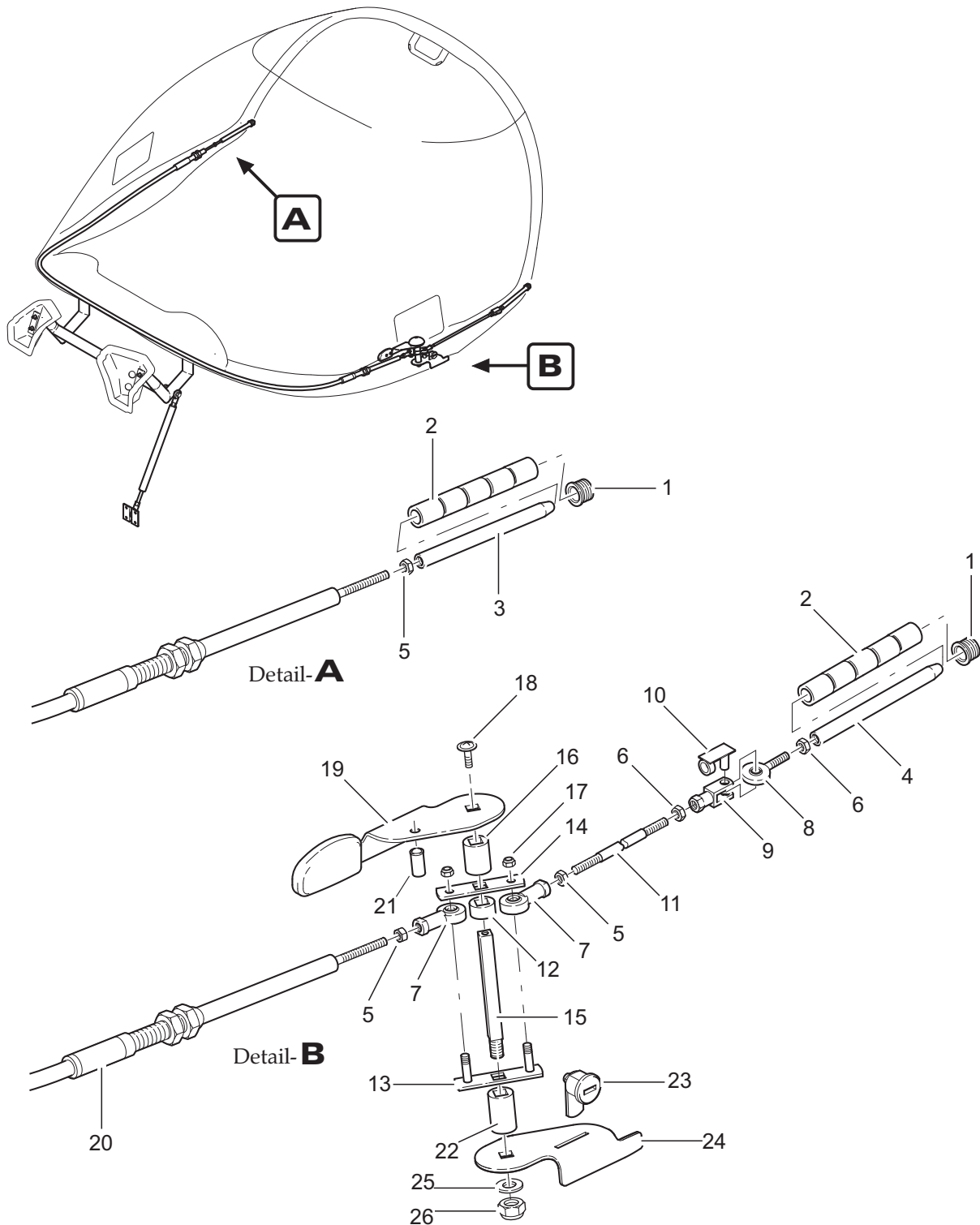


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2B			Canopy Latching Mechanism	197 - 999
1	2	AT01-2340-103	bush for locking bolt	
2	2	AT01-2340-112	bearing bush for locking bolt	
3	1	AT01-2340-114	locking bolt RH	
4	1	AT01-2340-101	locking bolt LH	
5	3	1800934_M5	nut (DIN 934 M5)	
6	2	1800934_M6	nut (DIN 934 M6)	
7	2	AT01-1850-115	swivel head (internal thread M5)	
8	1	AT01-1850-118	swivel head (external thread M6)	
9	1	AT01-1850-206	fork head	
10	1	AT01-1850-207	fork head bolt	
11	1	AT01-2340-113	pushrod	
12	1	AT01-2340-109	spacer sleeve	
13	1	AT01-2340-008	drive plate assy	
14	1	AT01-2340-108	drive plate	
15	1	AT01-2340-111	drive shaft	
16	1	AT01-2340-115	drive shaft bearing (top)	
17	2	1800985_M5	locknut (ISO 10511 M5)	
18	1	1807380_6x10	bolt (ISO 7380 M6x10)	
19	1	AT01-2340-009	top/inside handle for canopy latching	
20	1	AT01-2340-005	drive cable for canopy latching	
21	1	AT01-1860-110	plunger M10x22	
22	1	AT01-2340-110	drive shaft bearing (bottom)	
23	1	AT01-4540-104	canopy lock	
24	1	AT01-2340-107	bottom/outside handle for canopy latching	
25	1	1800125_8,4	washer (ISO 7089 8,4x16)	
26	1	1800985_M8	locknut (ISO 10511 M8)	

Service Kits & Tools

AT01-9600-109	drive cable for canopy latching (one side crimped)
AT01-9600-108	steel end M5 (to crimp on)

Refer to SL-AT01-002 for canopy latching drive cable exchange.

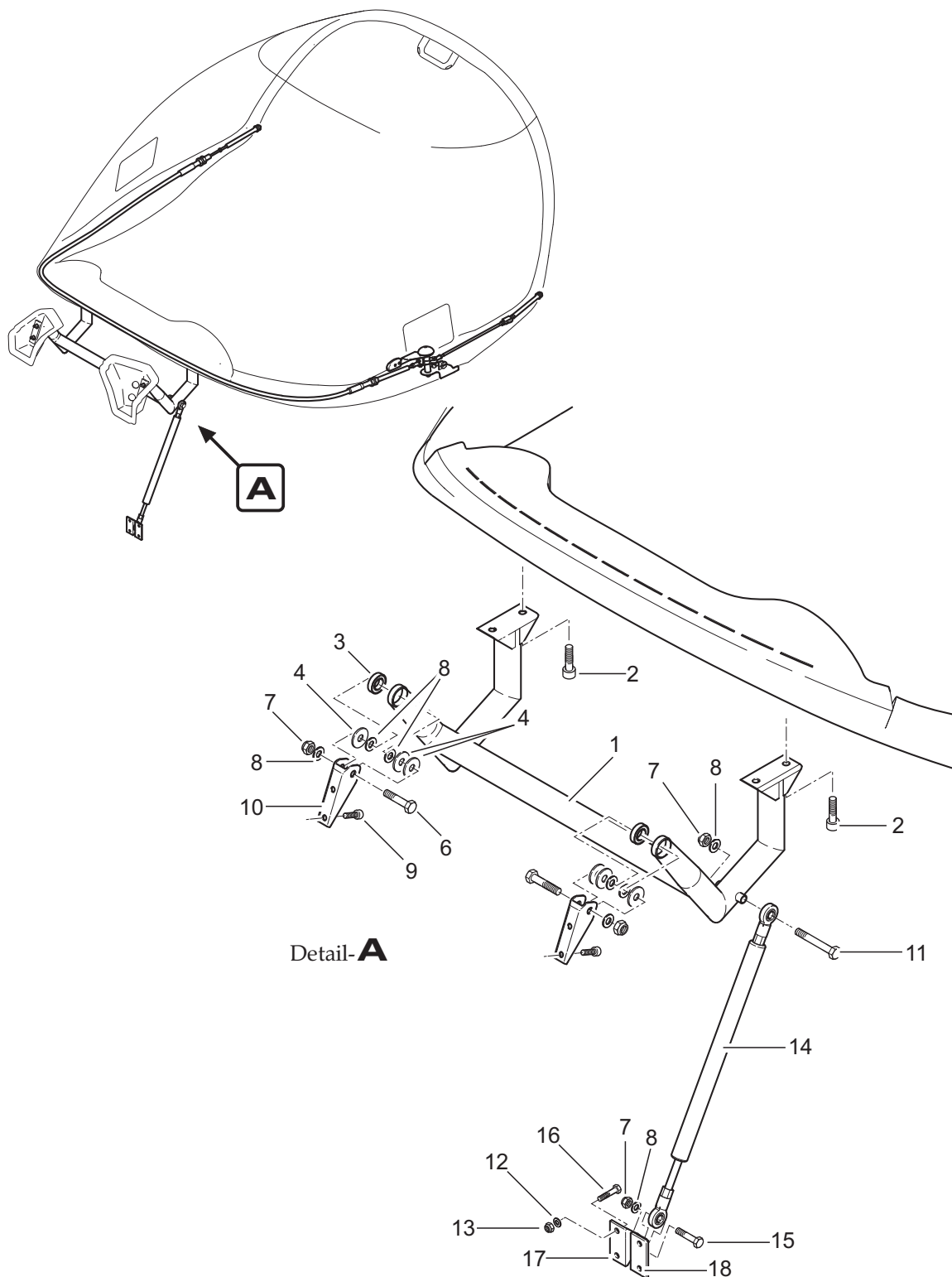
- Item not illustrated

Canopy Latching Mechanism
Figure 2B

56-10-00

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Canopy Hinge Bracket
 Figure 3

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3			Canopy Hinge Bracket	
1	1	AT01-2330-002	canopy suspension fork	
2	4	1800912_M8x25	bolt (ISO 4762 M8x25 8.8)	
3	2	AT01-1850-608	ball bearing	
4	6	1809021_8,4	washer (ISO 7093 8,4x24)	
6	2	1809037_08032	bolt (LN 9037 M8x32)	
7	4	1800985_M8	locknut (ISO 10511 M8)	
8	8	1800125_8,4	washer (ISO 7089 8,4x16)	
9	4	1800912_M6x20	bolt (ISO 4762 M6x20 8.8)	
10	2	AT01-2330-102	Bearing Fitting	
11	1	1800931_M8x60	bolt (ISO 4014 M8x60 8.8)	
12	4	1809021_6,4	washer (ISO 7093 6,4x18)	
13	4	1800985_M6	locknut (ISO 10511 M6)	
14	1	AT01-2330-006	gas-filled strut	
15	1	1800931_M8x35	bolt (ISO 4014 M8x35 8.8)	
16	4	1800933_M6x25	bolt (ISO 4017 M6x25 8.8)	
17	1	AT01-4510-128	bearing angle (symmetrical / replaced by AT01-4510-139)	101 - 205
	1	AT01-4510-139	bearing angle RH (use only together with AT01-4510-140)	206 - 999
18	1	AT01-4510-128	bearing angle (symmetrical / replaced by AT01-4510-140)	101 - 205
	1	AT01-4510-140	bearing angle LH (use only together with AT01-4510-139)	206 - 999

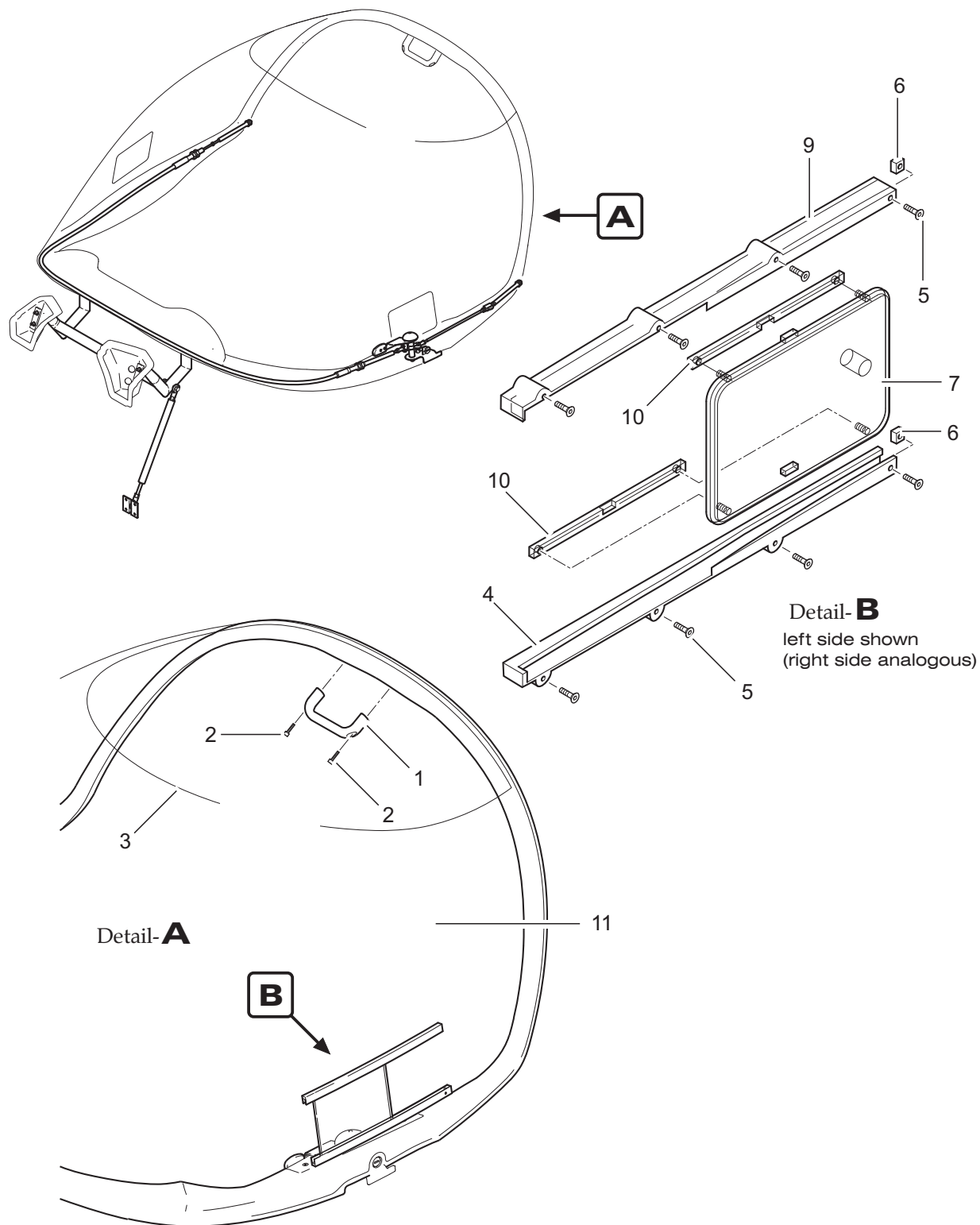
- Item not illustrated

Canopy Hinge Bracket
Figure 3

56-10-00

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Canopy Frame / Glass
Figure 4

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
4			Canopy Frame / Glass	
1	1	AT01-2310-100	canopy handle	
2	2	1800912_M6x20	bolt (ISO 4762 M6x20 8.8)	
3	1	AT01-2320-002	sun protection film	
4	1	AT01-2320-204	guide rail for window (top RH and bottom LH)	
5	8	AT01-2320-207	guide rail screw	
6	2	AT01-2320-206	stop block	
7	1	AT01-2320-202	window LH, uncolored	101-299
		AT01-2320-236	window LH, uncolored	300-301, 303-306
		AT01-2320-242	window LH, uncolored	302, 307-999
		AT01-2320-222	window LH, blue	101-299
		AT01-2320-238	window LH, blue	300-301, 303-306
		AT01-2320-244	window LH, blue	302, 307-999
		AT01-2320-227	window LH, grey	101-299
		AT01-2320-240	window LH, grey	300-301, 303-306
		AT01-2320-246	window LH, grey	302, 307-999
		AT01-2320-225	window LH, brown	101-299
		AT01-2320-232	window LH, green	101-299
-8	1	AT01-2320-201	window RH, uncolored	101-299
		AT01-2320-235	window RH, uncolored	300-301, 303-306
		AT01-2320-241	window RH, uncolored	302, 307-999
		AT01-2320-221	window RH, blue	101-299
		AT01-2320-237	window RH, blue	300-301, 303-306
		AT01-2320-243	window RH, blue	302, 307-999
		AT01-2320-226	window LH, grey	101-299
		AT01-2320-239	window RH, grey	300-301, 303-306
		AT01-2320-245	window RH, grey	302, 307-999
		AT01-2320-224	window RH, brown	101-299
		AT01-2320-231	window RH, green	101-299
9	1	AT01-2320-203	guide rail for window (bottom RH and top LH)	
10	2	AT01-2320-205	slide bar	
11	1	AT01-2320-200	canopy glass, uncolored	101-299
		AT01-2320-115	canopy glass, uncolored	300-999
		AT01-2320-220	canopy glass, blue	101-299
		AT01-2320-116	canopy glass, blue	300-999
		AT01-2320-228	canopy glass, grey	101-299
		AT01-2320-117	canopy glass, grey	300-999
-12	1	AT01-2320-106	rear window glass, uncolored	
		AT01-2320-107	rear window glass, blue	
		AT01-2320-108	rear window glass, grey	
		AT01-2320-109	rear window glass, brown	101-299
		AT01-2320-110	rear window glass, green	101-299

- Item not illustrated

Canopy Frame / Glass
Figure 4

56-10-00

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AQUILA AT01

ILLUSTRATED PARTS CATALOG

CHAPTER 57

WINGS

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Flap Installation	57-50-00	2	
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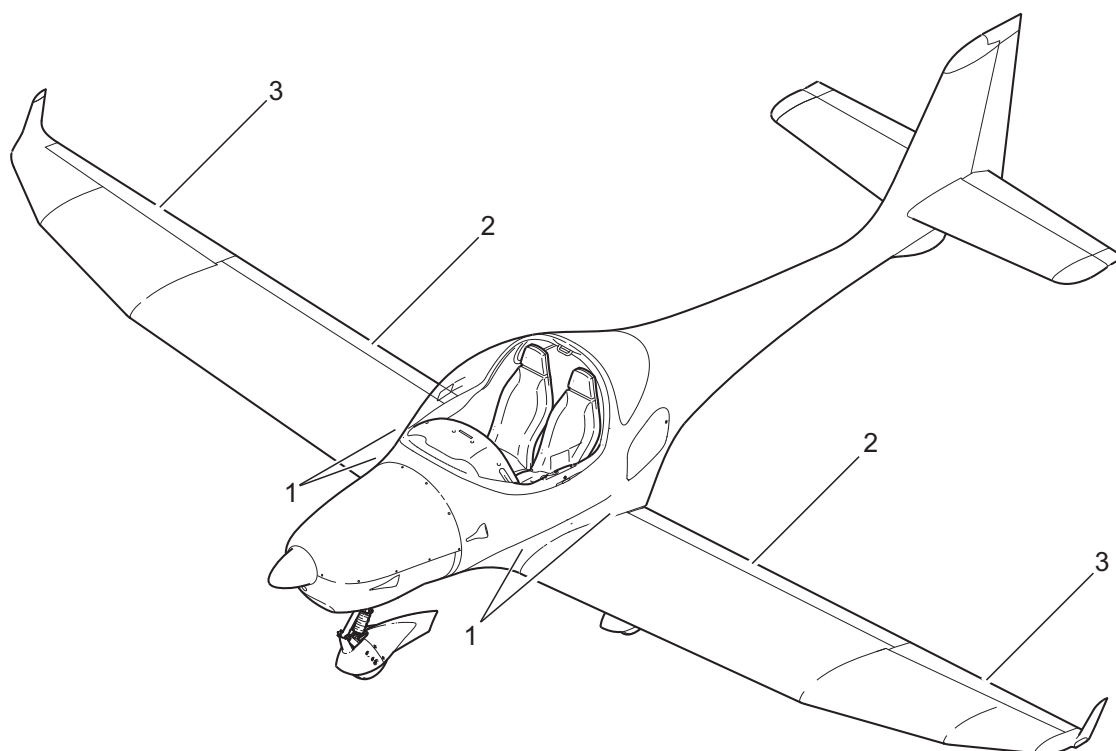


AQUILA AT01

ILLUSTRATED PARTS CATALOG

WINGS

GENERAL



Wings - General
Figure 1



AQUILA AT01

ILLUSTRATED PARTS CATALOG

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Wings - General	
	1		Wing Bolt Installation (refer to 57-00-00, figure 2A for details)	101 - 331
	1		Wing Bolt Installation (refer to 57-00-00, figure 2B for details)	332 - 999
	2		Flap Installation (refer to 57-50-00, figure 1 for details)	
	3		Aileron Installation (refer to 57-50-00, figure 2 for details)	

- Item not illustrated

Wings - General
Figure 1

57-00-00

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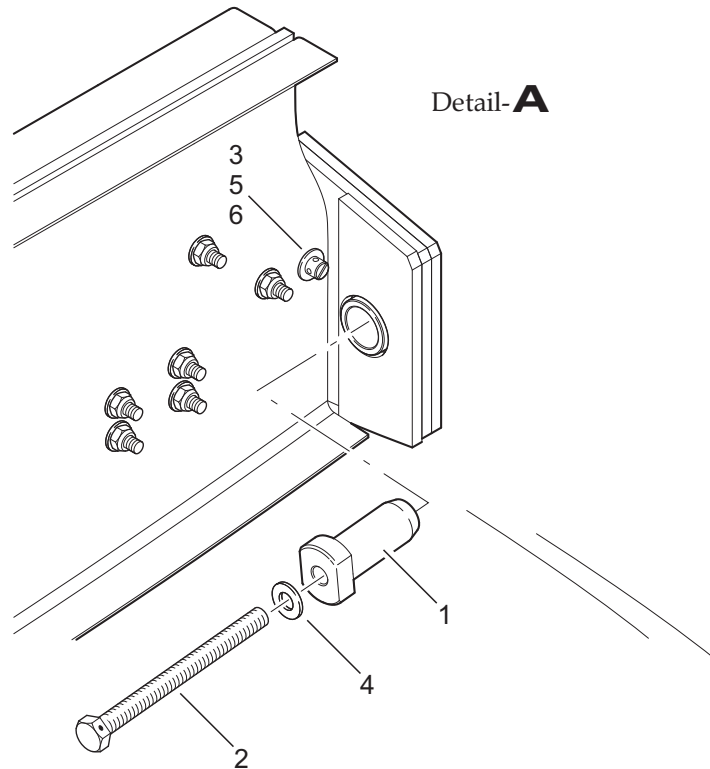
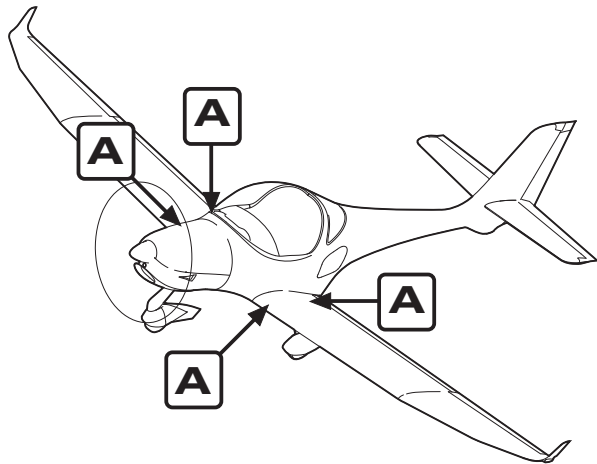


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2A			Wing Bolt Installation	101 - 331
1	4	AT01-4510-120	wing attachment bolt	
2	4	AT01-2100-100	safety bolt	
3	4	1800404_M5x20	Capstan screw, slotted (DIN 404 M5x20)	
4	4	1800125_8,4	washer (ISO 7089 8,4x16)	
5	8	1809021_5,3	washer (ISO 7093 5,3x15)	
6	4	1800985_M5	locknut (ISO 10511 M5)	
-7	AR	1840505	safety wire (0,8 mm)	
-8	1	AT01-2100-115	gap cover wing-fuselage LH	
-9	1	AT01-2100-116	gap cover wing-fuselage RH	
-10	AR	AT01-2100-104	adhesive for gap cover wing-fuselage installation (300ml)	

- Item not illustrated

Wing Bolt Installation
Figure 2A

57-00-00

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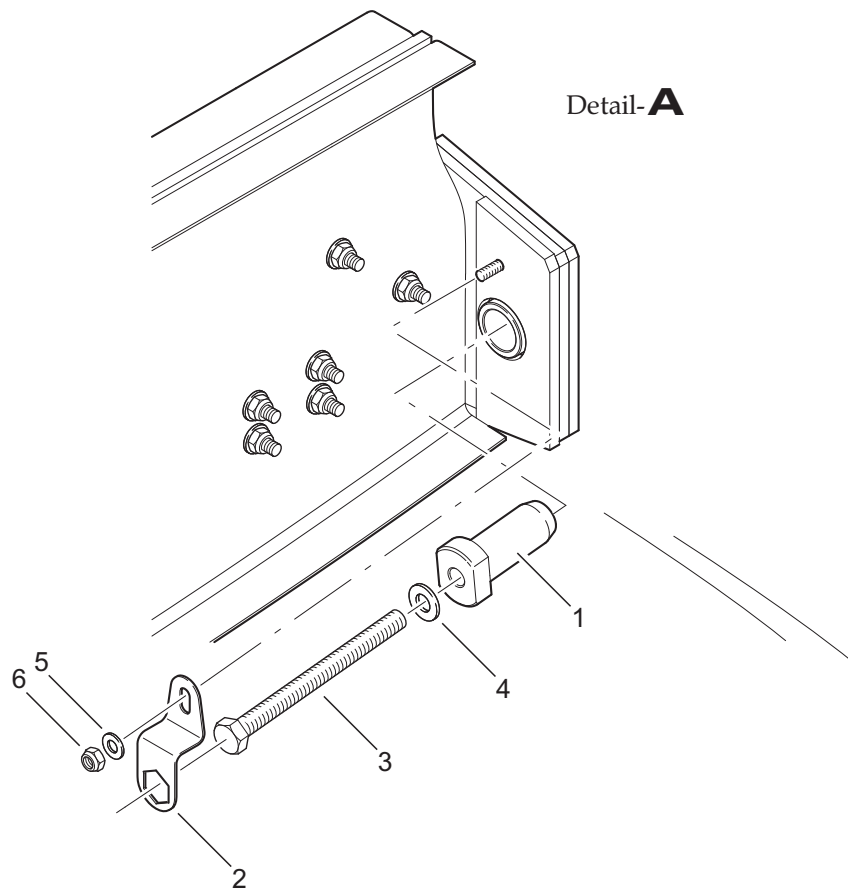
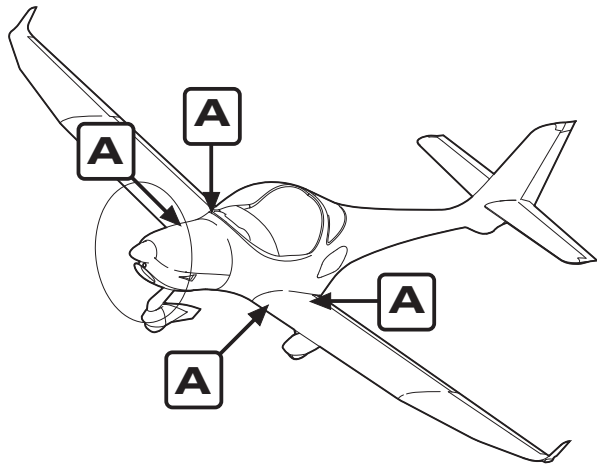
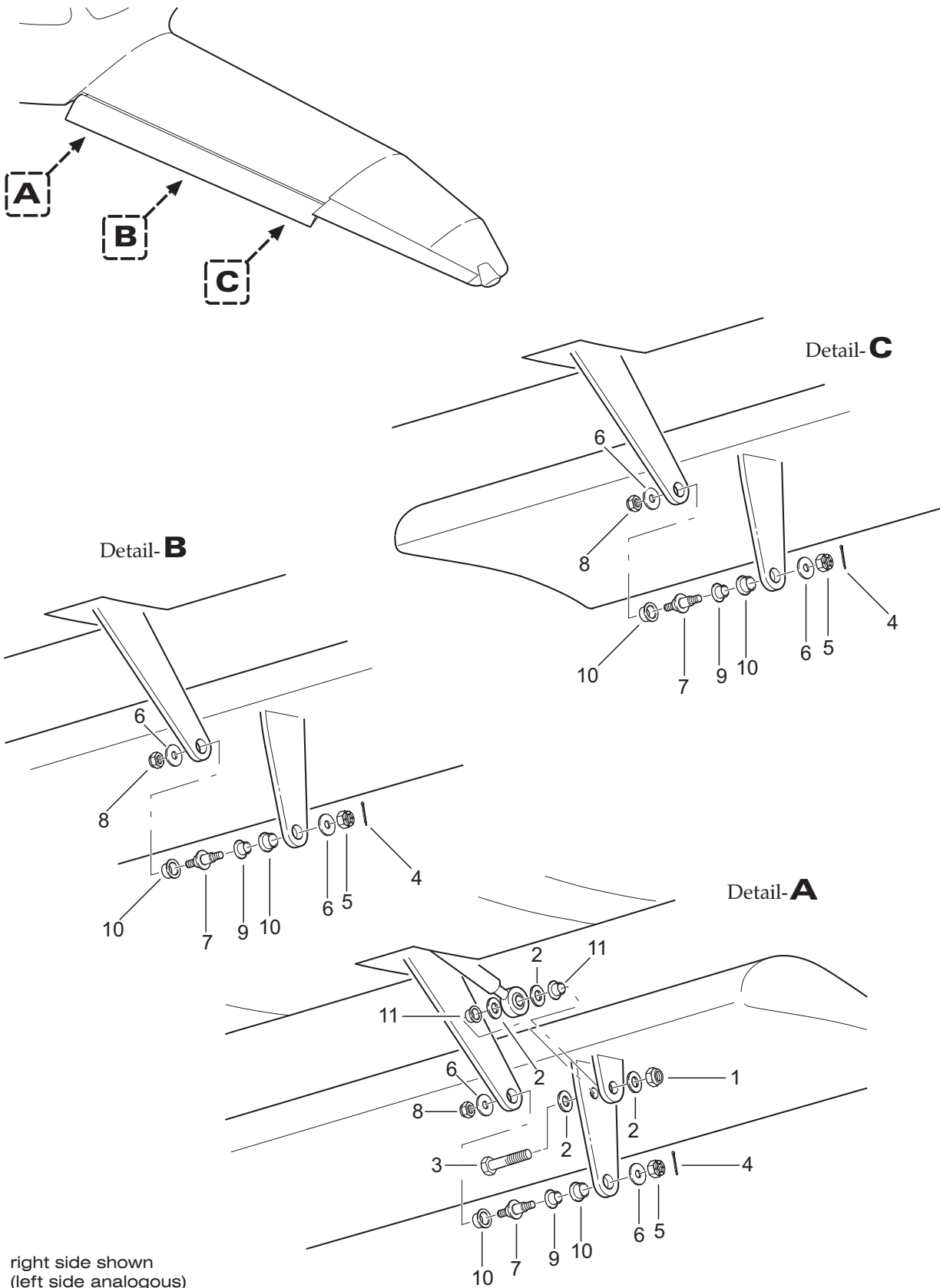


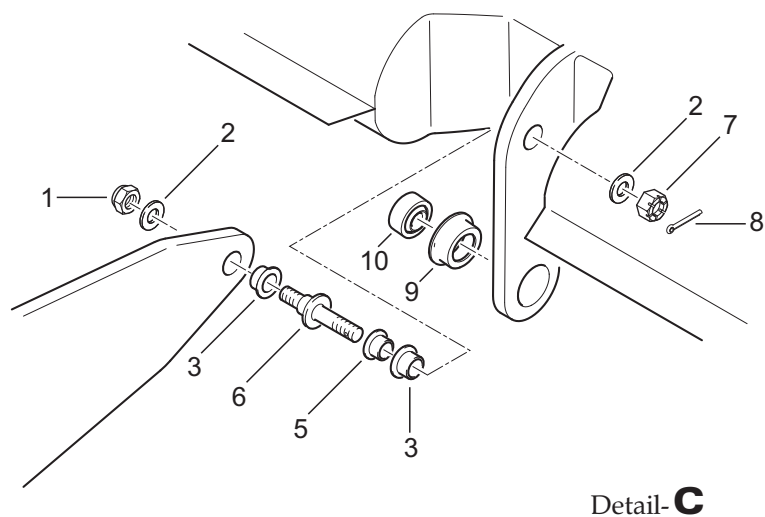
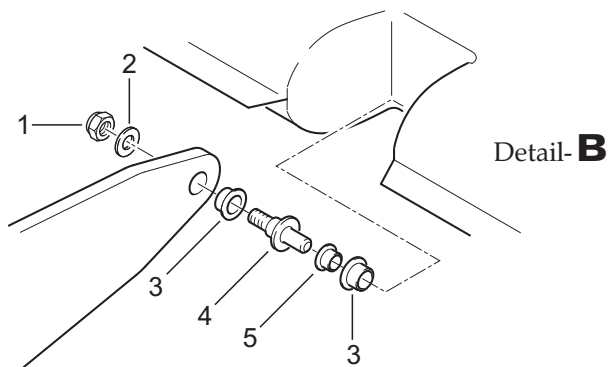
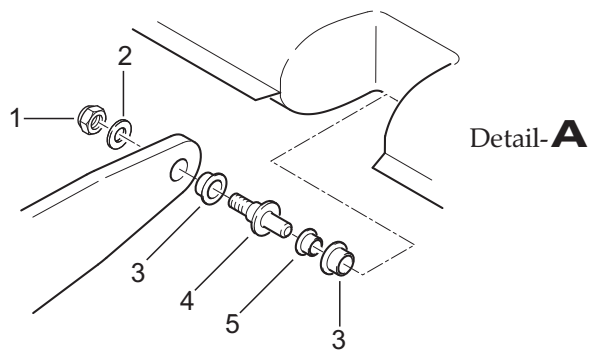
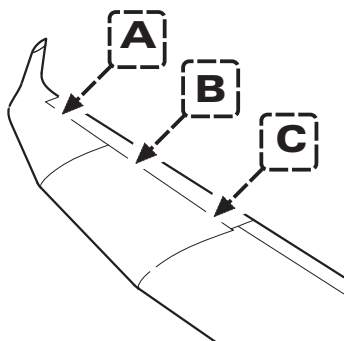
Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2B			Wing Bolt Installation	332 - 999
1	4	AT01-4510-120	wing attachment bolt	
2	4	AT01-2100-121	safety plate	
3	4	1800931_M8x80	bolt (ISO 4014 M8x80 8.8)	
4	4	1800125_8,4	washer (ISO 7089 8,4x16)	
5	4	1809021_5,3	washer (ISO 7093 5,3x15)	
6	4	1800985_M5	locknut (ISO 10511 M5)	
-7	1	AT01-2100-115	gap cover wing-fuselage LH	
-8	1	AT01-2100-116	gap cover wing-fuselage RH	
-9	AR	AT01-2100-104	adhesive for gap cover wing-fuselage installation (300ml)	

FLIGHT SURFACES



Flap Installation
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Flap Installation	
1	1	1800985_M8	locknut (ISO 10511 M8)	
2	4	1800125_8,4	washer (ISO 7089 8,4x16)	
3	1	1809037_08045	bolt (LN 9037 M8x45)	
4	3	1800094_1,6x16	split pin (ISO 1234 1,6x16)	1)
5	3	1800935_M6	castellated nut (ISO 7035 M6)	1)
6	6	1809021_6,4	washer (ISO 7093 6,4x18)	
7	3	AT01-4510-108	control surface pivot (1,5 mm)	
		AT01-4510-132	control surface pivot (3 mm)	
		AT01-4510-133	control surface pivot (4 mm)	
		AT01-4510-134	control surface pivot (5 mm)	
8	3	1800985_M6	locknut (ISO 10511 M6)	
9	3	1850011	collar bushing (PAF 08075 P10 INA)	
10	6	AT01-4510-113	bearing bush	
11	2	AT01-4510-116	bearing bush	
1) If split pin is outside castellated nut, an additional washer between item 5 and 6 is possible:				
	1	1800125_6,4	washer (ISO 7089 6,4x12x1,6)	
	1	1800988_6/1	washer (6,4x12x1)	
	1	1800988_6/0,5	washer (6,4x12x0,5)	



right side shown
(left side analogous)

Aileron Installation
Figure 2

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			Aileron Installation	
1	3	1800985_M6	locknut (ISO 10511 M6)	
2	4	1809021_6,4	washer (ISO 7093 6,4x18)	
3	6	AT01-4510-116	bearing bush	
4	2	AT01-4510-114	bearing pin	
5	3	1850010	collar bushing (PAF 06070 P10 INA)	
6	1	AT01-4510-115	bearing pin	
7	1	1800935_M6	castellated nut (ISO 7035 M6)	1)
8	1	1800094_1,6x16	split pin (ISO 1234 1,6x16)	1)
9	1	AT01-4510-111	bearing bush	
10	1	AT01-1850-101	bearing (glued into the bushing with Loctite 648)	
1) If split pin is outside castellated nut, an additional washer between item 2 and 7 is possible:				
1		1800125_6,4	washer (ISO 7089 6,4x12x1,6)	
1		1800988_6/1	washer (6,4x12x1)	
1		1800988_6/0,5	washer (6,4x12x0,5)	



AQUILA AT01
ILLUSTRATED PARTS CATALOG

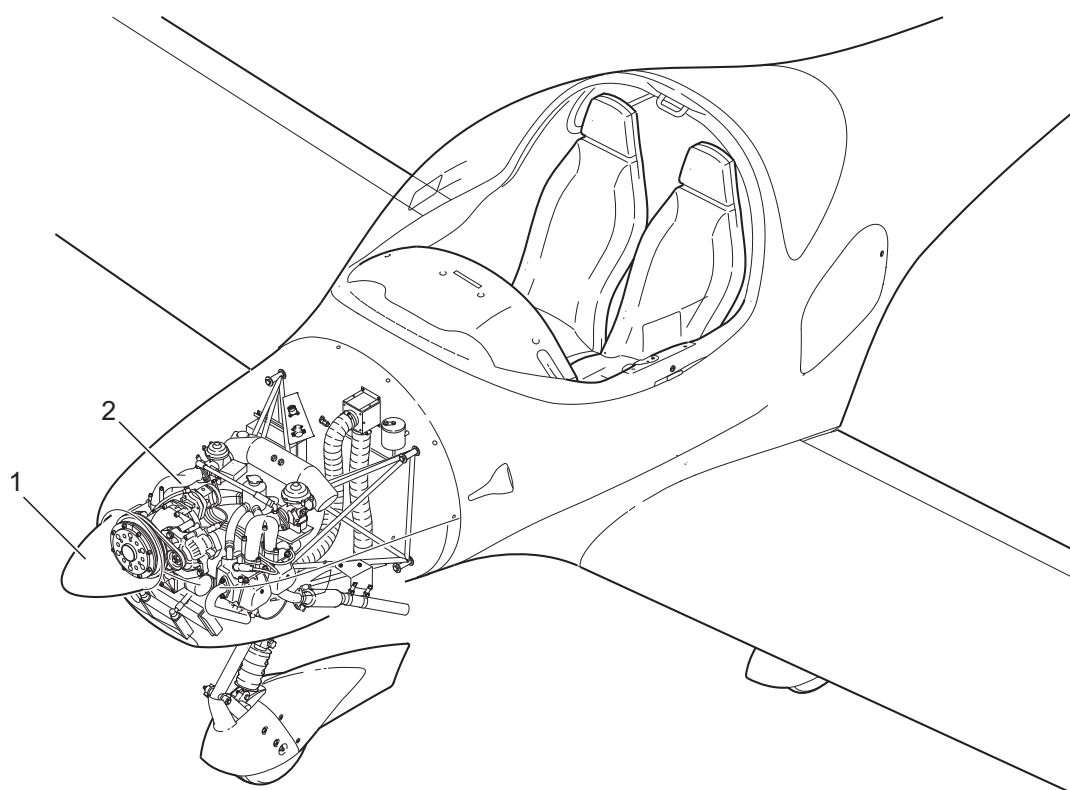
CHAPTER 61

PROPELLER

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**PROPELLER
GENERAL**



Propeller - General
Figure 1



AQUILA AT01

ILLUSTRATED PARTS CATALOG

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Propeller - General	
	1		Propeller Assembly (refer to 61-00-00, figure 2 for details)	
	2		Propeller Control (refer to 61-00-00, figure 3 for details)	

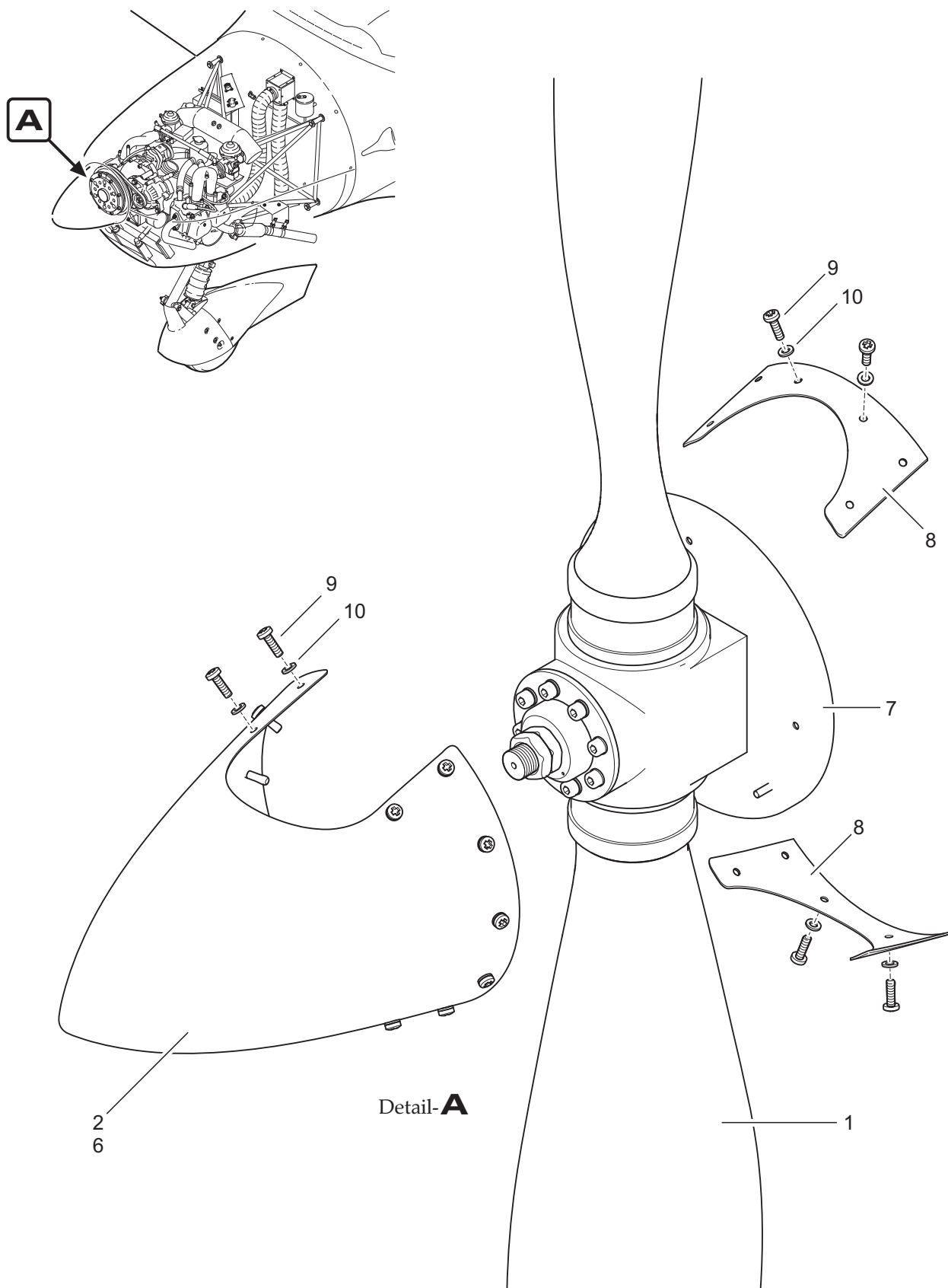
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Propeller - General
Figure 1

61-00-00

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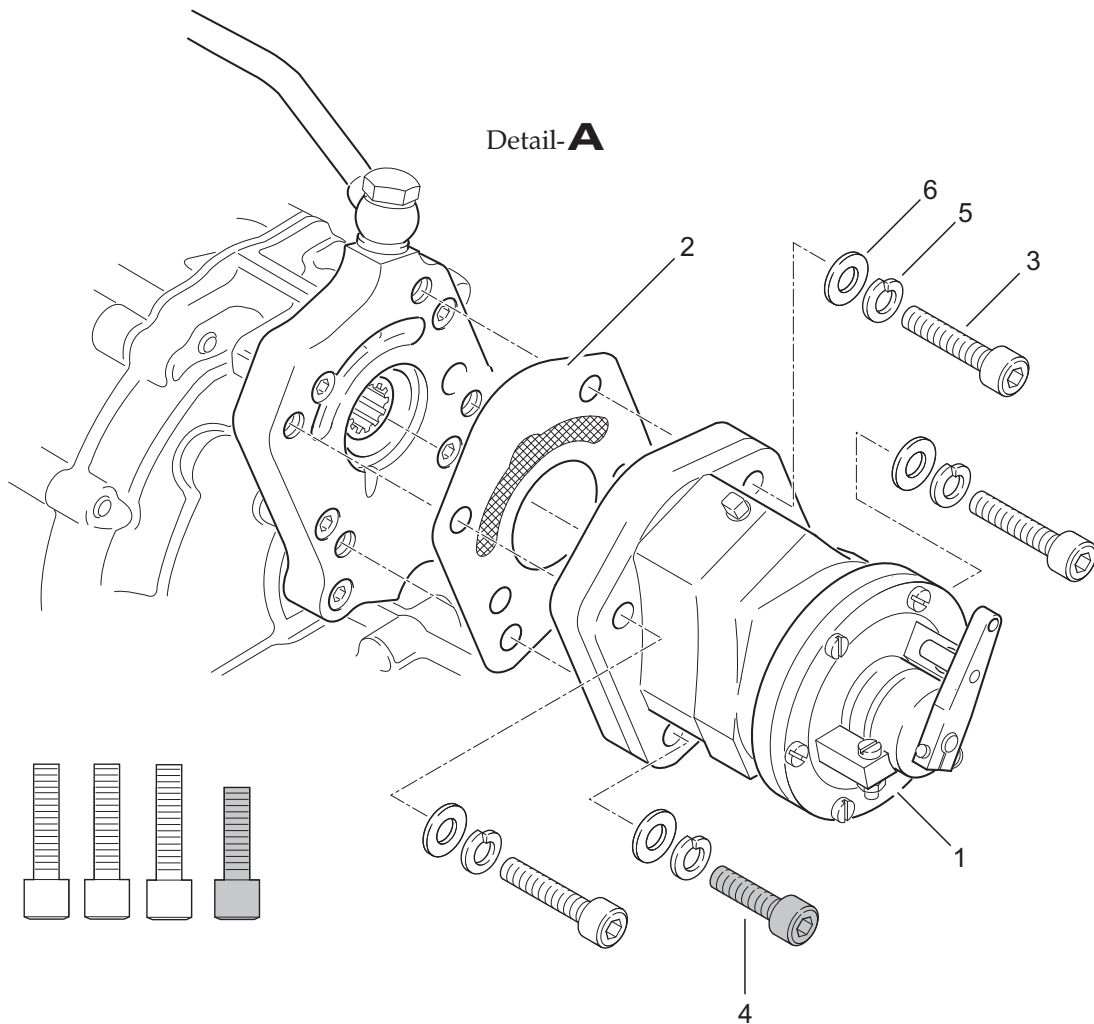
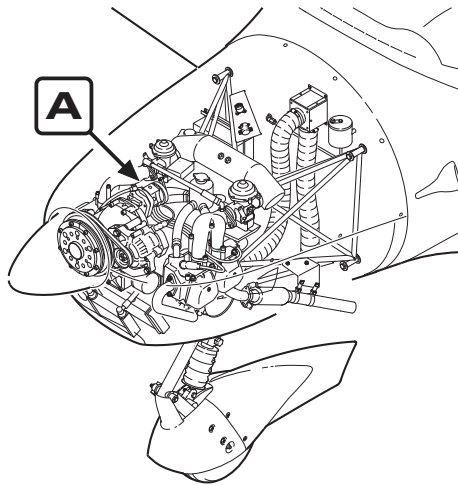
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Propeller Assembly
Figure 2

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			Propeller Assembly	
1	1	AT01-7310-102	propeller MTV-21-A/175-05 (without spinner / for spinner P-521)	Rotax 912S (101 - 299)
		AT01-7310-110	propeller MTV-21-A/170-05 (without spinner / for spinner P-1293)	Rotax 912S (300 - 999)
		AT01-7310-120	propeller MTV-21-A/175-05 (without spinner / for spinner P-1293)	Rotax 914F / Rotax 912iS / Rotax 912S (101 - 299)
2	1	AT01-7310-109	spinner assembly P-1293 for MTV-21	
		AT01-7310-103	spinner assembly P-521 for MTV-21	Rotax 912S (101 - 299)
-3	1	AT01-7310-104	O-ring seal propeller hub (MT P/N: C-048A)	
-4	6	AT01-7310-328	propeller nut (MT P/N: C-328)	
-5	6	AT01-7310-329	washer for propeller nut (MT P/N: C-336-7)	
<u>Spinner components:</u>				
6	1	AT01-7310-124	spinner dome P-1293 (white / MT P/N: B-375)	P-1293
		AT01-7310-113	spinner dome P-1293 (chrome / MT P/N: B-375)	P-1293
		AT01-7310-108	spinner dome P-521 (white / chrome / MT P/N: B-B-002-2-A)	P-521
7	1	AT01-7310-116	spinner mounting plate for P-1293 (MT P/N: B-616)	P-1293
		(none)	spinner mounting plate for P-521 (MT P/N: B-291)	P-521
8	2	AT01-7310-123	cover plate for P-1293 (MT P/N: P-1293-AB-05)	P-1293 / 1)
		AT01-7310-105	cover plate for P-521 (MT P/N: P-521-AB-05-A)	P-521 / 1)
9	18	AT01-7310-115	spinner screw (MT P/N: C-306-8)	
10	18	AT01-7310-114	fiber washer (MT P/N: C-344)	
		AT01-7310-112	Nylon washer (chrome spinner / MT P/N: C-344-3)	
-11	18	AT01-7310-121	rivet nut (MT P/N: C-345)	P-1293
-12	36	AT01-7310-122	countersunk rivet (MT P/N: C-346)	P-1293
-13	1	AT01-7310-117	ring (MT P/N: A-746-A)	P-1293
-14	4	AT01-7310-118	screw (MT P/N: C-302-6)	
-15	4	AT01-7310-119	washer (MT P/N: C-336-4)	
-16	4	AT01-7310-125	locknut (MT P/N: C-335)	

1) Cover plates are available for blade 1 or 2 and undrilled.



Propeller Control
Figure 3

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3			Propeller Control	
1	1	AT01-7000-009	propeller governor MT P-850-12	
		AT01-7000-006	propeller governor MT P-410-13 (replaced by MT P-850-12)	
		AT01-7000-005	propeller governor Woodward (replaced by MT P-850-12)	
2	1	AT01-7080-012	gasket (Rotax P/N: 931372)	
3	3	1800912_M8x40	bolt (ISO 4762 M8x40 8.8)	
4	1	1800912_M8x35	bolt (ISO 4762 M8x35 8.8)	
5	4	AT01-7080-441	lockwasher (Rotax P/N: 945832)	
6	4	1800125_8,4	washer (ISO 7089 8,4x16)	

Governor control cable attachment:

-7	1	AT01-7020-136	clamp screw MT
-8	1	1800125_4,3	washer (ISO 7089 4,3x9)
-9	1	1800125_5,3	washer (ISO 7089 5,3x10)
-10	1	1800985_M4	locknut (ISO 10511 M4)
-11	1	1800985_M5	locknut (ISO 10511 M5)



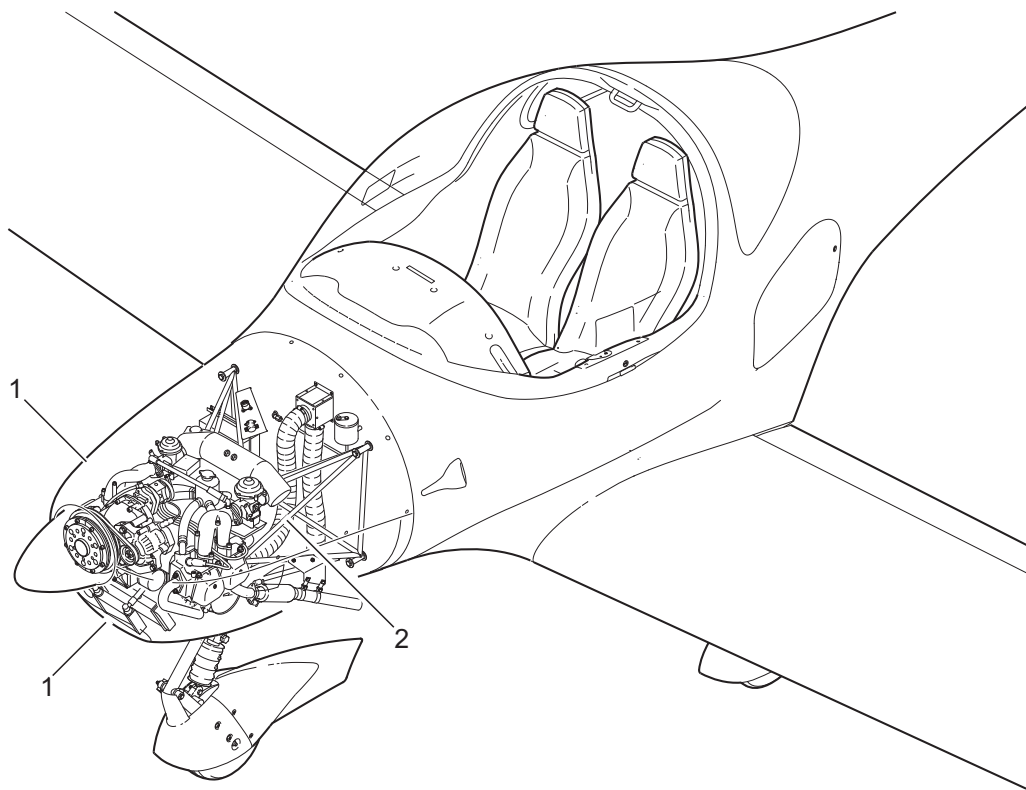
AQUILA AT01
ILLUSTRATED PARTS CATALOG

CHAPTER 71
POWER PLANT

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Engine Mount Components	71-20-00	2A	Rotax 912S/iS	
Engine Mount Components	71-20-00	2B	Rotax 914F	
AIR INDUCTION SYSTEM	71-60-00	1		
Engine Air Intake Components	71-60-00	2A	Rotax 912S/iS	
Engine Air Intake / Intercooler Installation	71-60-00	2B	Rotax 914F	

**POWER PLANT
GENERAL**



Power Plant - General
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Power Plant - General	
	1		Cowling Components (refer to 71-10-00, figure 1A for details)	Rotax 912S/iS
	-1		Cowling Components (refer to 71-10-00, figure 1B for details)	Rotax 914F
	2		Engine Mount Components (refer to 71-20-00, figure 1A for details)	Rotax 912S/iS
	-2		Engine Mount Components (refer to 71-20-00, figure 1B for details)	Rotax 914F
	-3		Engine Air Intake Components (refer to 71-60-00, figure 1A for details)	Rotax 912S/iS
	-3		Engine Air Intake / Intercooler Installation (refer to 71-60-00, figure 1B for details)	Rotax 914F

- Item not illustrated

Power Plant - General
Figure 1

71-00-00

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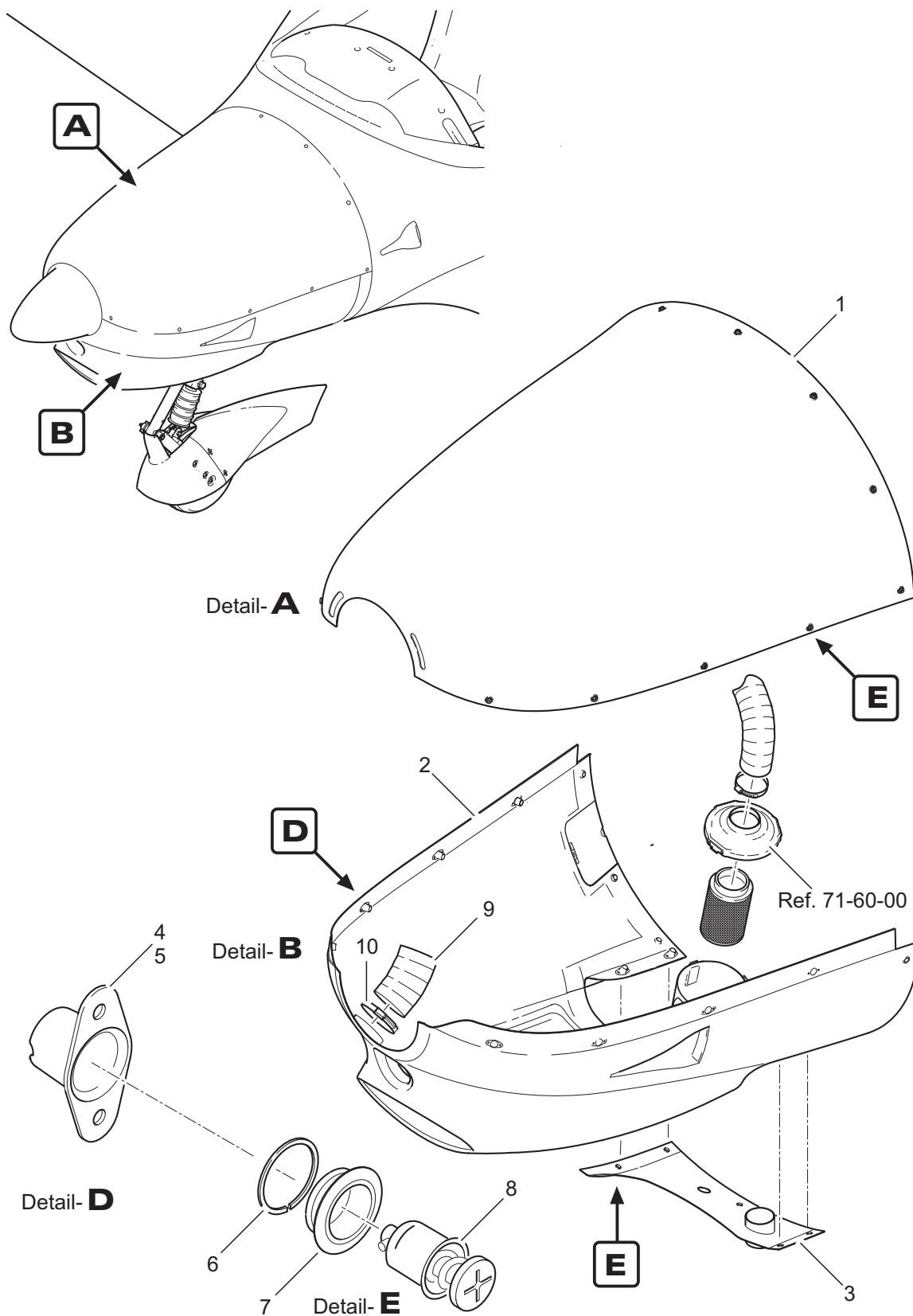
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AQUILA AT01

ILLUSTRATED PARTS CATALOG

COWLING



EFFECTIVITY

Aircraft equipped
with Rotax 912S /
Rotax 912iS

Cowling Components
Figure 1A

71-10-00

Page 2A

31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1A			Cowling Components	Rotax 912S/iS
1	1	AT01-2130-001-096	upper cowling	Rotax 912S
		AT01-2130-023-096	upper cowling	Rotax 912iS
2	1	AT01-2130-013-096	lower cowling	Rotax 912S
		AT01-2130-019-096	lower cowling	Rotax 912iS
3	1	AT01-2130-005	cowling air outlet	
4	13	AT01-1840-582	Benloc receptacle	
		AT01-1840-562	Camloc receptacle (optional)	
5	26	1807337_3,2x8 ES/ES	rivet (ISO 15984 3,2x8 A2/A2)	
6	29	AT01-1840-580	Camloc retaining washer	
7	29	AT01-1840-558	Camloc grommet	
8	29	AT01-1840-448	Camloc stud (5mm)	
		AT01-1840-449	Camloc stud (6mm)	
		AT01-1840-550	Camloc stud (7mm)	
9	AR	AT01-4520-558	air hose (red / Ø 83mm / 100mm)	
10	1	AT01-4520_TO70-90/9C7W2	clamp	

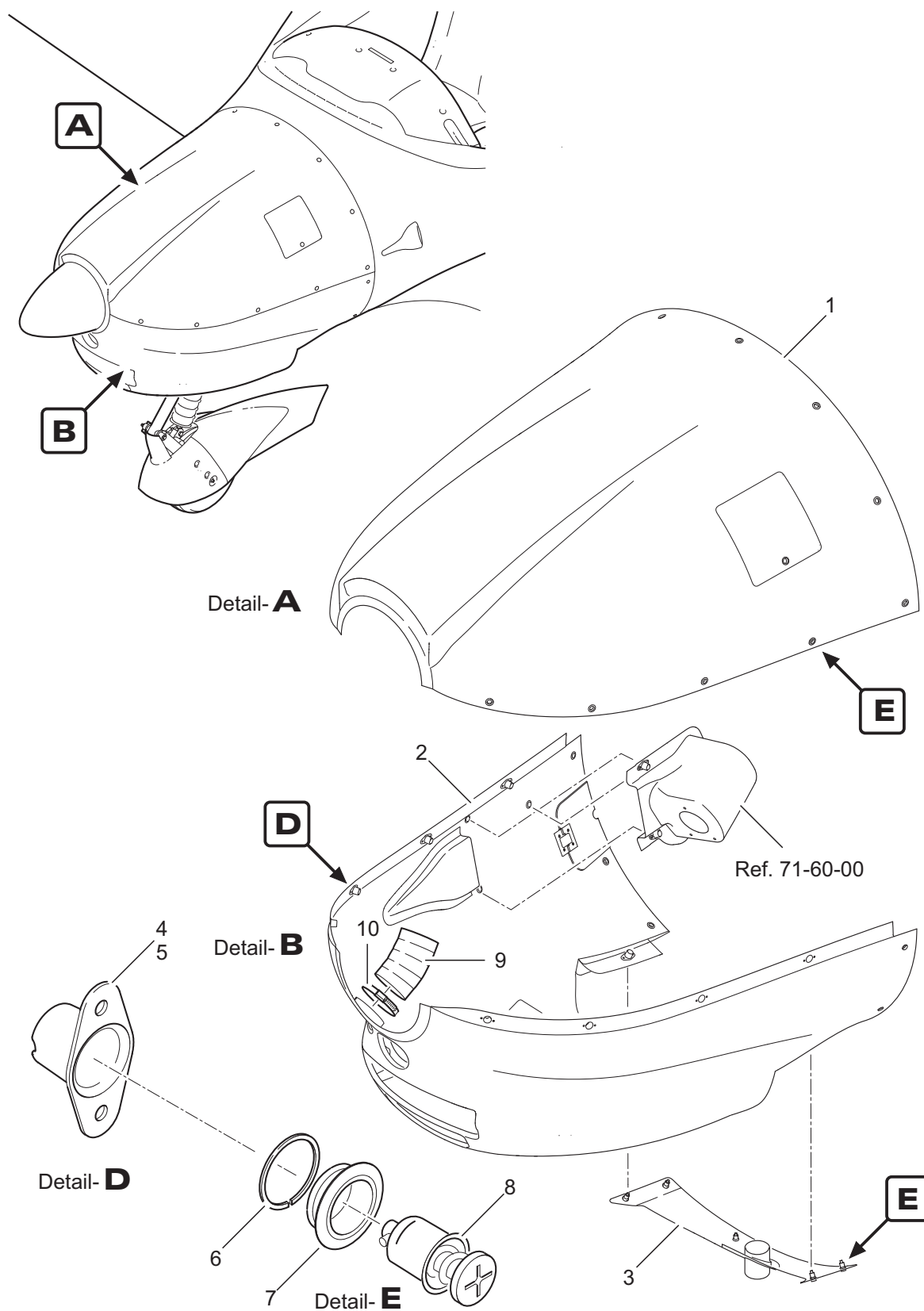
- Item not illustrated

Cowling Components
Figure 1A

71-10-00

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EFFECTIVITY

Aircraft equipped
with Rotax 914F

Cowling Components
Figure 1B

71-10-00

Page 2B

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1B			Cowling Components	Rotax 914F
1	1	AT01-2130-017-096	upper cowling	
2	1	AT01-2130-018-096	lower cowling	
3	1	AT01-2130-057	cowling air outlet	
4	14	AT01-1840-582	Benloc receptacle	
		AT01-1840-562	Camloc receptacle (optional)	
5	18	1807337_3,2x8 ES/ES	rivet (ISO 15984 3,2x8 A2/A2)	
	4	1807337_3,2x6 ES/ES	rivet (ISO 15984 3,2x6 A2/A2 / cowling air outlet)	
	6	1807337B_3,2x6 Al/St	rivet (ISO 15978 3,2x6 Al/St / air filter box)	
6	32	AT01-1840-580	Camloc retaining washer	
7	32	AT01-1840-558	Camloc grommet	
8	32	AT01-1840-448	Camloc stud (5mm)	
		AT01-1840-449	Camloc stud (6mm)	
		AT01-1840-550	Camloc stud (7mm)	
9	AR	AT01-4520-558	air hose (red / Ø 83mm / 100mm)	
10	1	AT01-4520_TO70-90/9C7W2	clamp	

- Item not illustrated

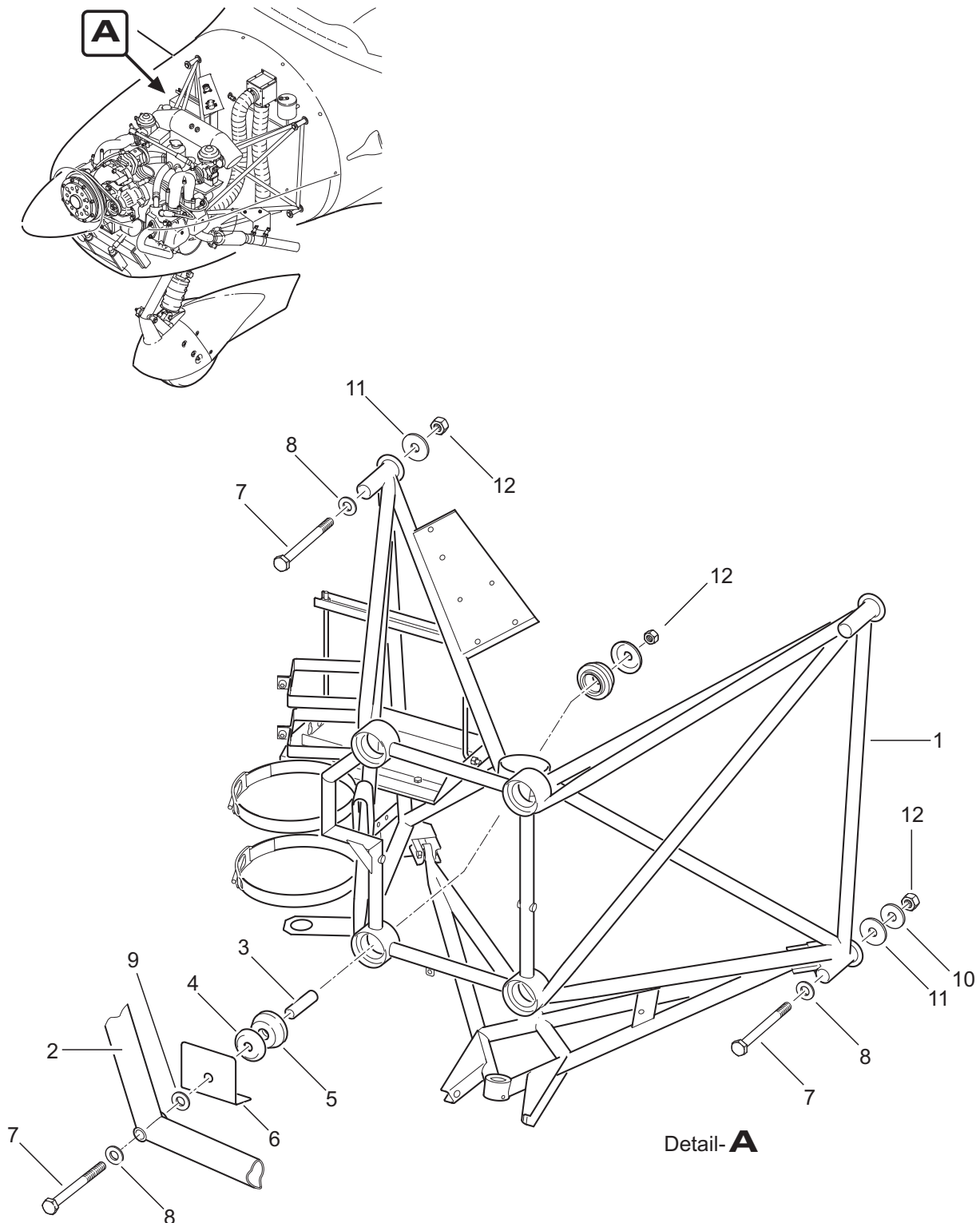
Cowling Components
Figure 1B

71-10-00

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31.05.24

ENGINE MOUNT



NOTE: 9 - right mounts only
6 - lower mounts only
10 - lower mounts only

EFFECTIVITY

Aircraft equipped
with Rotax 912S /
Rotax 912iS

Engine Mount Components
Figure 1A

71-20-00

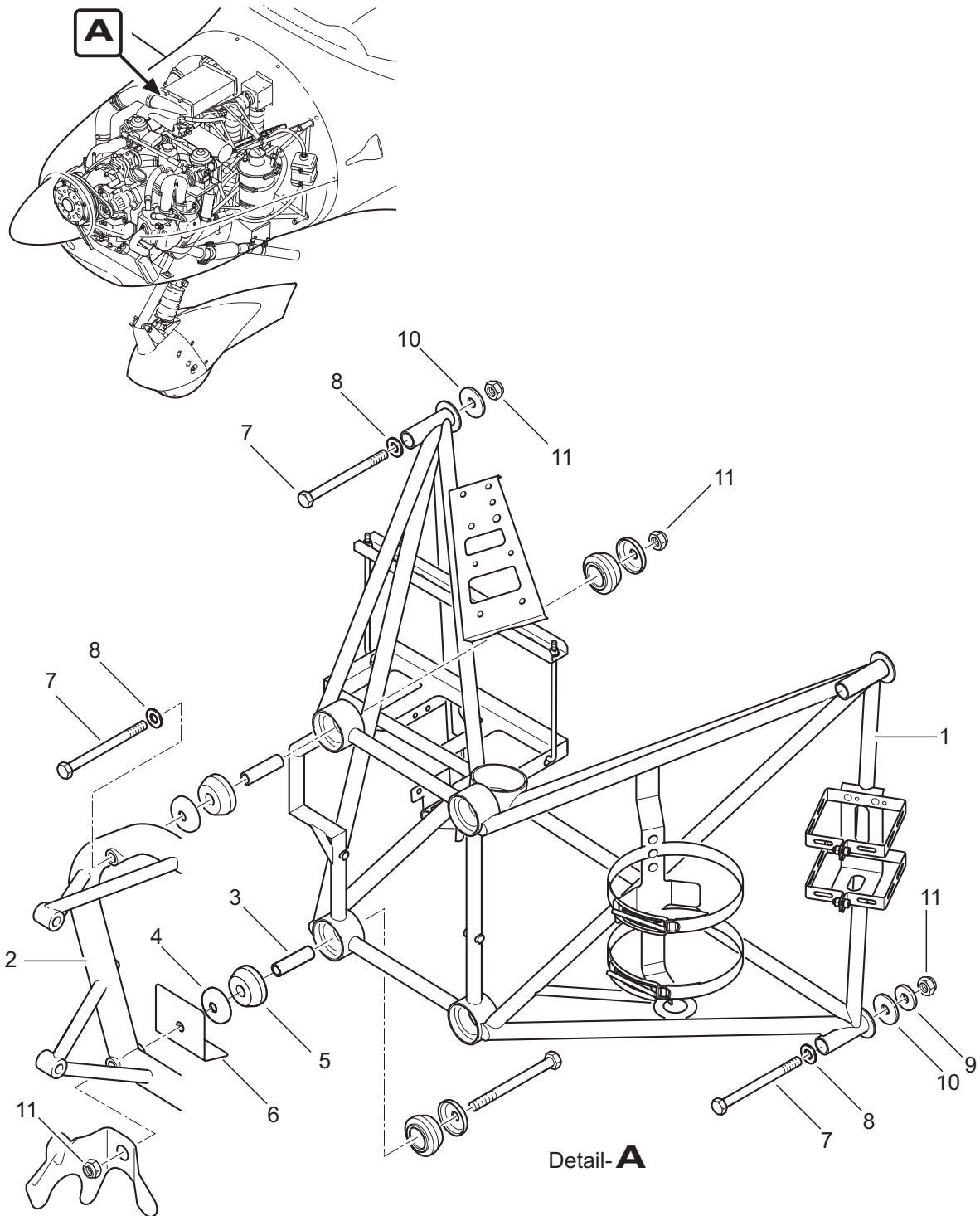
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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1A			Engine Mount Components	Rotax 912S/iS
1	1	AT01-7010-007	engine mount (new version)	Rotax 912S
		AT01-7010-001	engine mount (old version / replaced by AT01-7010-007)	Rotax 912S
		AT01-7010-031	engine mount	Rotax 912iS
2	1	AT01-7010-118	engine mount Rotax (Rotax P/N: 886565)	
3	4	AT01-7010-102	spacer tube	
4	8	AT01-7010-109	cover plate	
5	8	AT01-7010-111	shock mount	
6	2	AT01-7010-115	heat protection shield	
7	8	1800931_M10x110	bolt (ISO 4014 M10x110 8.8)	
8	8	1800125_10,5	washer (ISO 7089 10,5x20)	
9	2	1800125_10,5	washer (ISO 7089 10,5x20)	(1)
10	2	1806340_10,5	washer (DIN 6340 10,5x28)	(2)
11	4	1800440_11	washer (ISO 7094 11x34)	
12	8	1806925 8VZ M10	locknut (ISO 7042 M10)	

Notes:

- (1) Washers are installed with the old engine mount (AT01-7010-001) only.
 (2) Refer to SB-AT01-022.



NOTE: 6 - lower mounts only
9 - lower mounts only

EFFECTIVITY

Aircraft equipped
with Rotax 914F

Engine Mount Components
Figure 1B

71-20-00

Page 2B

31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1B			Engine Mount Components	Rotax 914F
1	1	AT01-7010-021	engine mount	
2	1	AT01-7010-118	engine mount Rotax (Rotax P/N: 886565)	
3	4	AT01-7010-102	spacer tube	
4	8	AT01-7010-109	cover plate	
5	8	AT01-7010-111	shock mount	
6	2	AT01-7010-115	heat protection shield	
7	8	1800931_M10x110	bolt (ISO 4014 M10x110 8.8)	
8	6	1800125_10,5	washer (ISO 7089 10,5x20)	
9	2	1806340_10,5	washer (DIN 6340 10,5x28)	
10	4	1800440_11	washer (ISO 7094 11x34)	
11	8	1806925 8VZ M10	locknut (ISO 7042 M10)	

- Item not illustrated

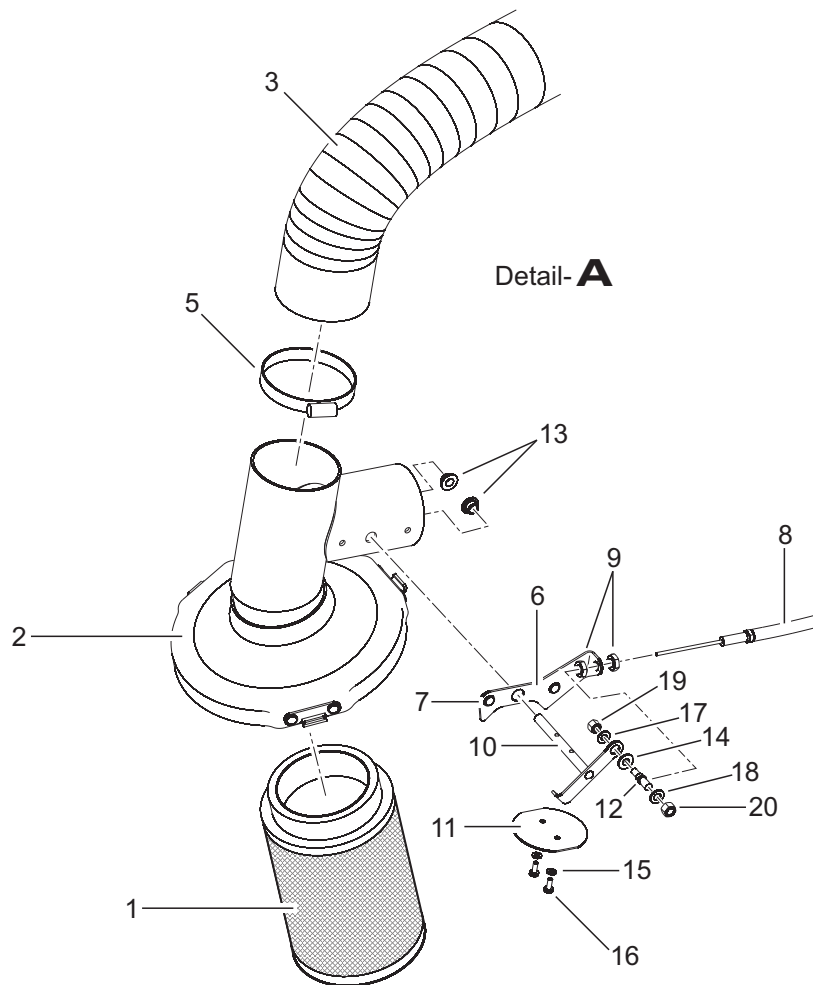
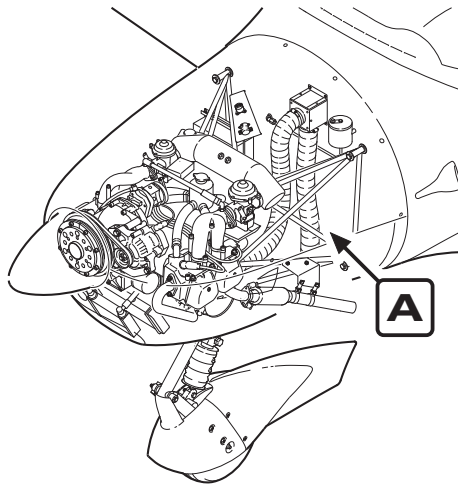
Engine Mount Components
Figure 1B

71-20-00

Page 3B

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AIR INDUCTION SYSTEM



Detail-**A**

EFFECTIVITY

Aircraft equipped
with Rotax 912S /
Rotax 912iS

Engine Air Intake Components
Figure 1A

71-60-00

Page 2A

31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1A			Engine Air Intake Components	Rotax 912S/iS
1	1	AT01-7040-101	air filter	
2	1	AT01-7040-004	air filter box cover (without alternate air valve)	Rotax 912S
	1	AT01-7040-012	air filter box cover (incl. alternate air valve)	Rotax 912iS
3	0,68m	AT01-4520-600	air hose (red / Ø 63mm)	Rotax 912S
	0,95m	AT01-4520-600	air hose (red / Ø 63mm)	Rotax 912iS
-4	0,35m	AT01-4520-600	air hose (red / Ø 63mm / for preheated air)	Rotax 912S
5	1	AT01-4520_TO50-70/9C7W2	clamp	
6	1	AT01-7040-139	mounting bracket	Rotax 912iS
7	2	1807337_4x6 Al/St	rivet (ISO 15983 4x6 Al/St)	Rotax 912iS
8	1	AT01-7020-027	alternate air control cable (incl. item 9)	Rotax 912iS
9	2	1800439_M6	nut (ISO 4035 M6)	Rotax 912iS
10	1	AT01-7040-017	axle with lever	Rotax 912iS
11	1	AT01-7040-137	flap	Rotax 912iS
12	1	AT01-2600-107	cable clamping screw	Rotax 912iS
13	2	AT01-1850-165	bearing bush	Rotax 912iS
14	1	AT01-1850-156	bearing bush	Rotax 912iS
15	2	1800128_3,1	spring washer (DIN 128 3,1x6,2)	Rotax 912iS
16	2	1807985_3x8 ES	screw (ISO 7045 M3x8)	Rotax 912iS
17	1	1800125_4,3	washer (ISO 7089 4,3x9)	Rotax 912iS
18	1	1800125_5,3	washer (ISO 7089 5,3x10)	Rotax 912iS
19	1	1800985_M4	locknut (ISO 10511 M4)	Rotax 912iS
20	1	1800985_M5	locknut (ISO 10511 M5)	Rotax 912iS

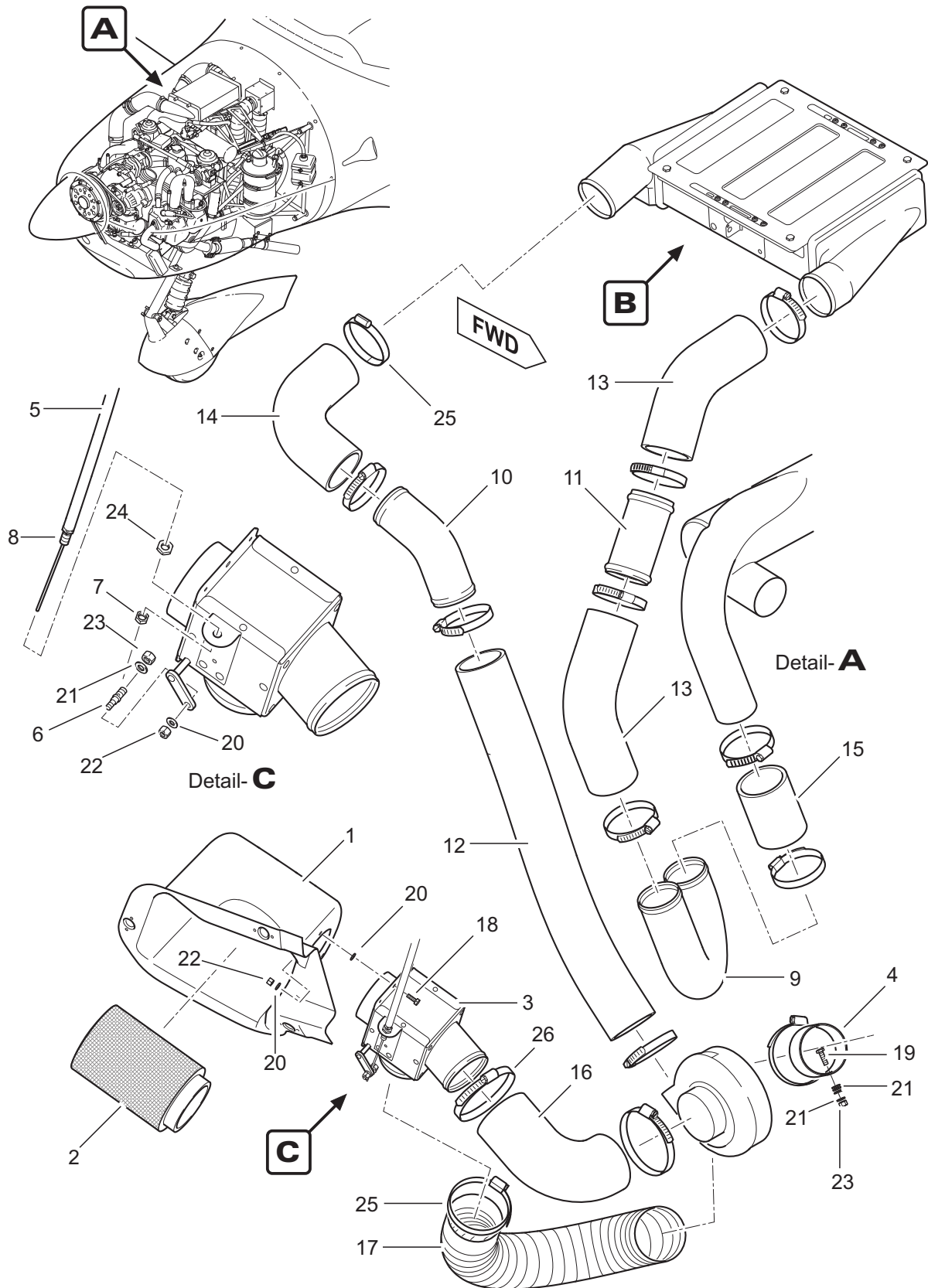
- Item not illustrated

Engine Air Intake Components
Figure 1A

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EFFECTIVITY

Aircraft equipped
with Rotax 914F

Engine Air Intake / Intercooler Installation
Figure 1B (1)

71-60-00

Page 2B

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1B (1)			Engine Air Intake / Intercooler Installation	Rotax 914F
1	1	AT01-7040-005	air filter box	
2	1	AT01-7040-101	air filter	
3	1	AT01-7040-006	air valve	
4	1	AT01-7040-106	tube	
5	1	AT01-7020-020	dual control cable	
6	1	AT01-2600-107	cable clamping screw	
7	1	AT01-7020-132	nut	
8	1	AT01-4510-135	adjusting screw	
9	1	AT01-4520-617	tube bend 180°	
10	1	AT01-4520-619	tube bend 45°	
11	1	AT01-4520-614	hose connector	
12	AR	AT01-4520-621	silicone hose (approx. 500mm)	
13	2	AT01-4520-615	silicone hose elbow 45°	
14	1	AT01-4520-616	silicone hose elbow 90°	
15	1	AT01-4520-624	silicone hose straight	
16	1	AT01-4520-623	silicone hose elbow 90°	
17	AR	AT01-4520-600	air hose (red / Ø 63mm / approx. 550mm / Ø 5mm drainage hole at lowest point)	
18	3	1800933_M4x12	bolt (ISO 4017 M4x12 8.8)	
19	1	1800933_M5x16	bolt (ISO 4017 M5x16 8.8)	
20	7	1800125_4,3	washer (ISO 7089 4,3x9)	
21	5	1800125_5,3	washer (ISO 7089 5,3x10)	
22	4	1800985_M4	locknut (ISO 10511 M4)	
23	2	1800985_M5	locknut (ISO 10511 M5)	
24	1	1800439_M6	nut (ISO 4035 M6)	
25	12	AT01-4520_TO50-70/9C7W2	clamp	
26	2	AT01-4520_TO60-80/9C7W2	clamp	
-27	AR	AT01-4520-100	drain hose (10x1 / black / approx. 1m)	
-28	1	AT01-4520_COBRA_10,0/7W4	Cobra hose clamp	

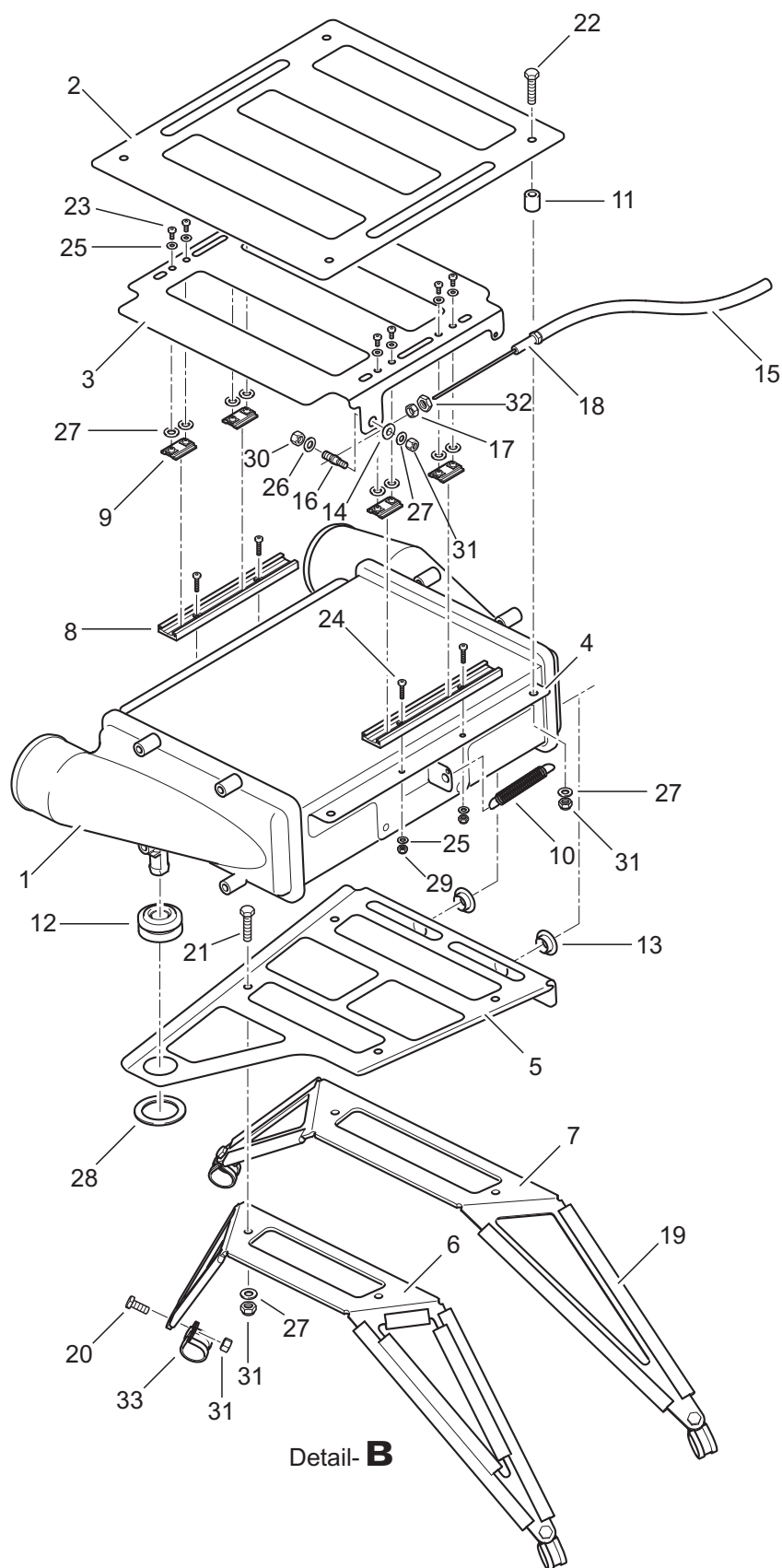
- Item not illustrated

Engine Air Intake / Intercooler Installation
Figure 1B (1)

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EFFECTIVITY

Aircraft equipped
with Rotax 914F

Engine Air Intake / Intercooler Installation
Figure 1B (2)

71-60-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1B (2)			Engine Air Intake / Intercooler Installation	Rotax 914F
1	1	AT01-7050-310	intercooler	
2	1	AT01-7050-192	upper cover plate	
3	1	AT01-7050-185	lower cover plate	
4	2	AT01-7050-198	mounting bracket	
5	1	AT01-7050-180	intercooler mounting bracket	
6	1	AT01-7050-181	front support	
7	1	AT01-7050-182	rear support	
8	2	AT01-7050-187	guide rail	
9	2	AT01-7050-188	guide carriage (floating bearing lateral direction)	RH side
	2	AT01-7050-196	guide carriage	LH side
10	1	AT01-7050-190	tension spring	
11	4	AT01-7050-195	spacer sleeve	
12	1	AT01-7050-308	intercooler grommet	
13	2	AT01-1850-153	bearing bush	
14	1	AT01-1850-156	bearing bush	
15	1	AT01-7020-020	dual control cable	
16	1	AT01-2600-107	cable clamping screw	
17	1	AT01-7020-132	nut	
18	1	AT01-4510-135	adjusting screw	
19	AR	AT01-9910-302	edge protection	
20	4	1800933_M5x12	bolt (ISO 4017 M5x12 8.8)	
21	4	1800933_M5x14	bolt (ISO 4017 M5x14 8.8)	
22	4	1800933_M5x20	bolt (ISO 4017 M5x20 8.8)	
23	8	1807984_M3x5	bolt (ISO 14580 M3x5 8.8)	
24	4	1807984_M3x12	bolt (ISO 14580 M3x12 8.8)	
25	12	1800125_3,2	washer (ISO 7089 3,2x7)	
26	1	1800125_4,3	washer (ISO 7089 4,3x9)	
27	17	1800125_5,3	washer (ISO 7089 5,3x10)	
28	1	1800988_25/1,5	adjusting washer (DIN 988 25x35x1,5)	
29	4	1800985_M3	locknut (ISO 10511 M3)	
30	1	1800985_M4	locknut (ISO 10511 M4)	
31	13	1800985_M5	locknut (ISO 10511 M5)	
32	1	1800439_M6	nut (ISO 4035 M6)	
33	4	AT01-4520_RSGU1.16/12W1	pipe clamp	

- Item not illustrated

Engine Air Intake / Intercooler Installation
Figure 1B (2)

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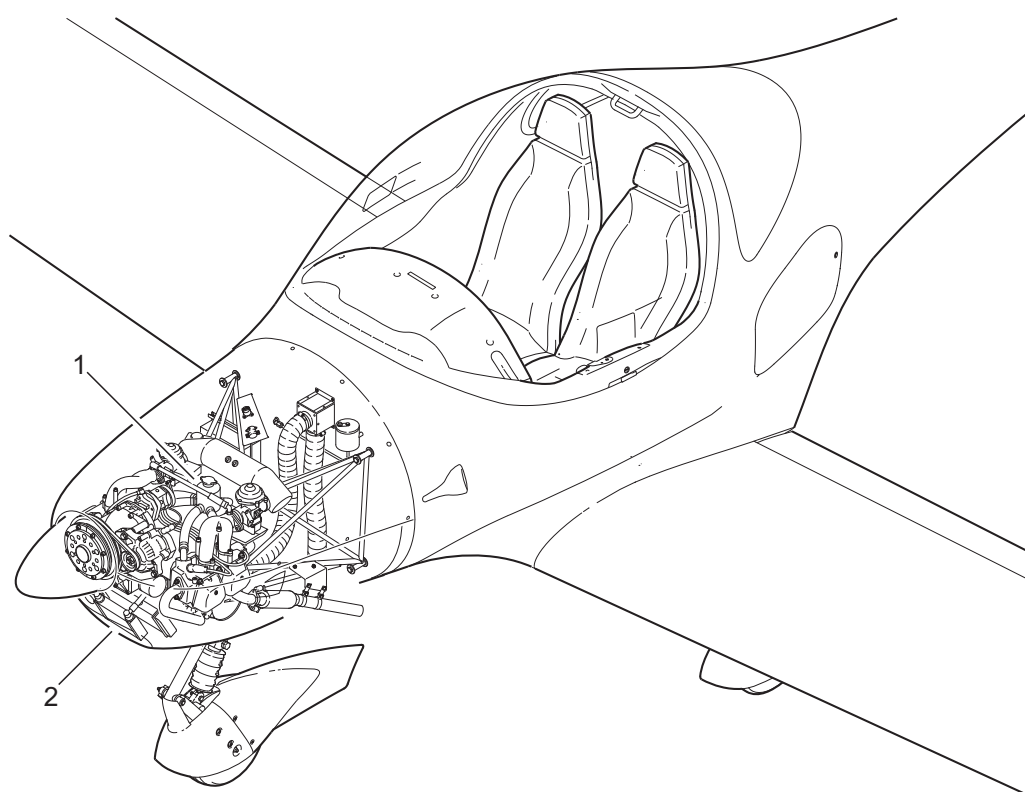
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CHAPTER 75
ENGINE COOLING

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Water Cooling	75-00-00	4C	Rotax 914F
Water Cooling	75-00-00	4D	Rotax 912iS
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**ENGINE COOLING
GENERAL**



Engine Cooling - General
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Engine Cooling - General	
	-1		Water Cooling (refer to 75-00-00, figure 2A for details)	Rotax 912S 101 - 299
	1		Water Cooling (refer to 75-00-00, figure 2B for details)	Rotax 912S 300 - 999
	-1		Water Cooling (refer to 75-00-00, figure 2C for details)	Rotax 914F
	-1		Water Cooling (refer to 75-00-00, figure 2D for details)	Rotax 912iS
	2		Winterization Kit (refer to 75-00-00, figure 3 for details)	

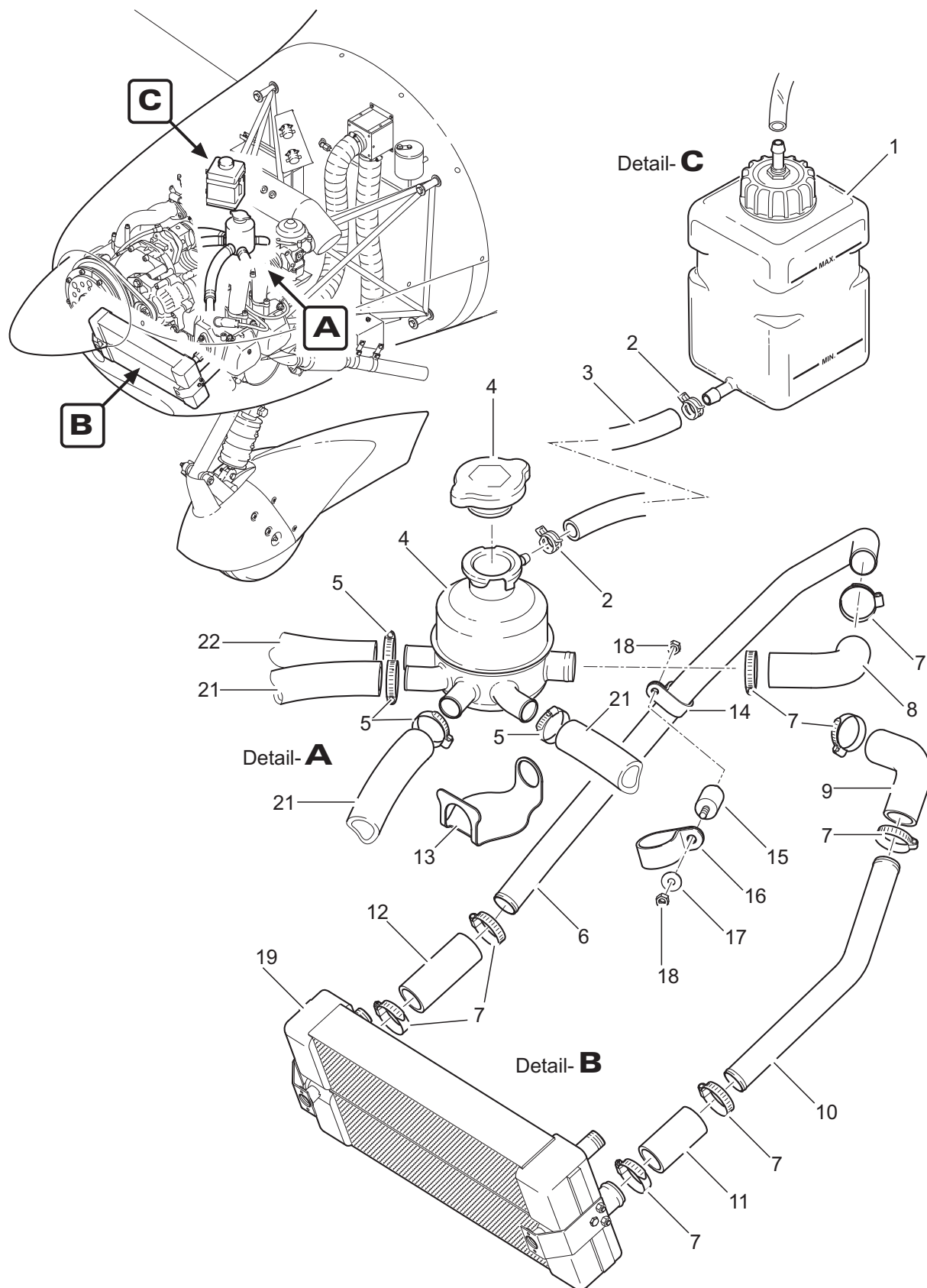
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Engine Cooling - General
Figure 1

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EFFECTIVITY

Aircraft equipped
with Rotax 912S
101 - 299

Water Cooling
Figure 2A

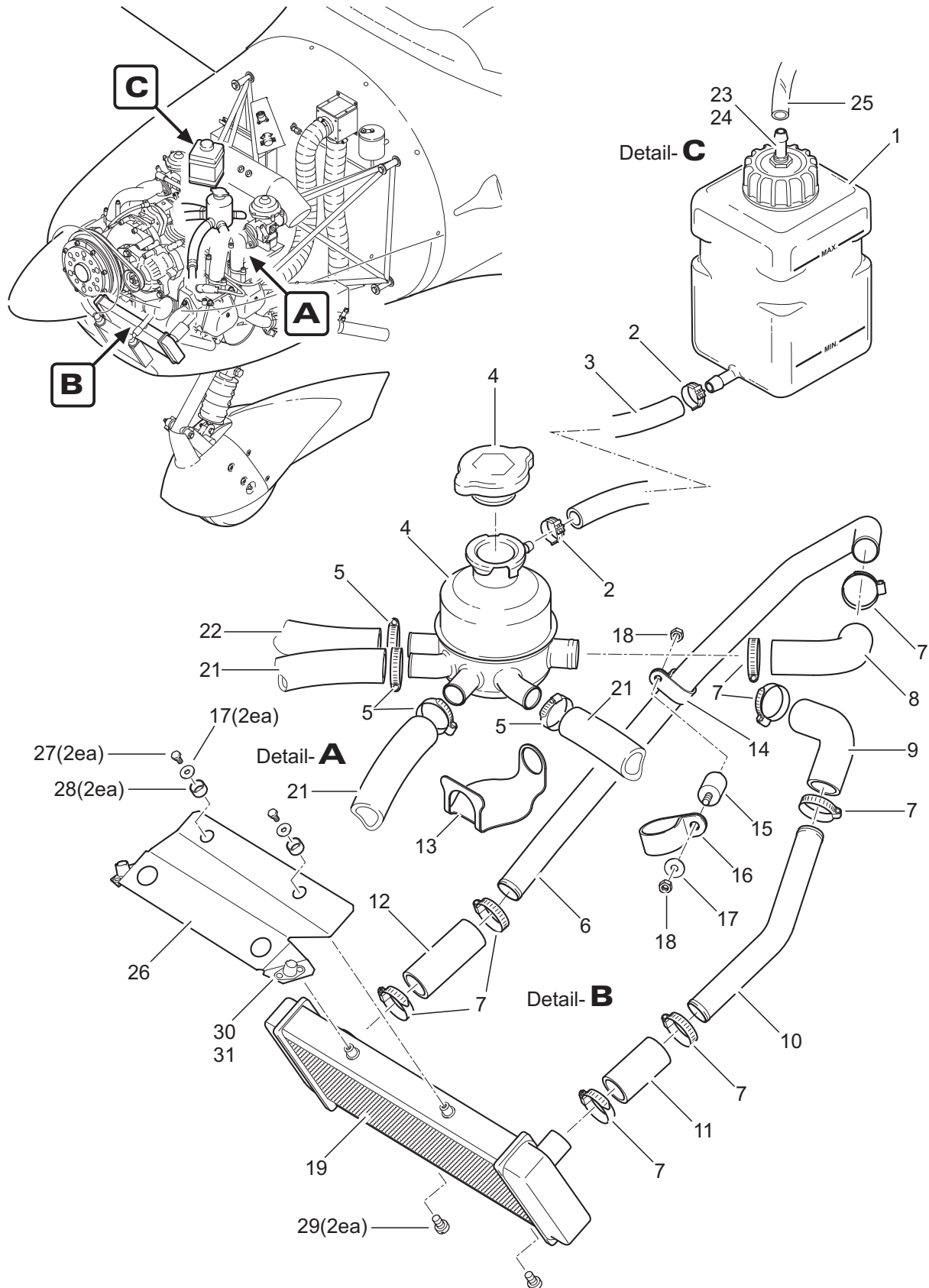
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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2A			Water Cooling	Rotax 912S 101 - 299 / 1)
1	1	AT01-7000-150	overflow bottle with cap	
2	2	AT01-4520-462	Cobra clamp	
3	1	AT01-4520-427	fuel hose (DIN 73379, 1200mm)	
4	1	AT01-7050-110	expansion tank with cap	
5	4	AT01-7080-409	spring clamp	
6	1	AT01-7050-100	cooling pipe expansion tank / cooler	
7	8	AT01-4520-458	hose clamp	
8	1	AT01-7050-106	hose elbow expansion tank (cut from AT01-1870-222)	
9	1	AT01-7050-105	hose elbow pump (cut from AT01-1870-222)	
10	1	AT01-7050-101	cooling pipe pump / cooler	
11	1	AT01-7050-111	cooling hose LH (cut from AT01-1870-222 or -223)	
12	1	AT01-7050-109	cooling hose RH (cut from AT01-1870-222 or -223)	
13	1	AT01-7080-455	rubber plate	
14	1	AT01-4520-469	pipe clamp	
15	1	AT01-7050-112	rubber buffer	
16	1	AT01-4520-478	pipe clamp	
17	3	1809021_6,4	washer (ISO 7093 6,4x18)	
18	2	1800985_M6	locknut (ISO 10511 M6)	
19	1	AT01-7050-300	oil and water cooler	
- 20	1	AT01-7070-110	heat protection foil (150mm)	
21	3	AT01-7080-405	hose	
22	1	AT01-7080-232	hose (Rotax: 922192)	

1) A new cooling system has been developed due to new operating limitations and a change of coolant with new Rotax cylinder heads. Refer to SB-AT01-029 for retrofitting the new cooling system.



EFFECTIVITY

Aircraft equipped
with Rotax 912S
300 - 999

Water Cooling
Figure 2B

75-00-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2B			Water Cooling	Rotax 912S 300 - 999 / 1)
1	1	AT01-7000-150	overflow bottle with cap	
2	2	AT01-4520_COBRA_12,0/8W4	Cobra hose clamp	
3	1	AT01-4520-630	vacuum hose (1200 mm)	
4	1	AT01-7050-110	expansion tank with cap	
5	4	AT01-7080-409	spring clamp	
6	1	AT01-7050-129	cooling pipe expansion tank / cooler	
7	8	AT01-4520-458	hose clamp	
8	1	AT01-7050-106	hose elbow expansion tank (cut from AT01-1870-222)	
9	1	AT01-7050-105	hose elbow pump (cut from AT01-1870-222)	
10	1	AT01-7050-131	cooling pipe pump / cooler	
11	1	AT01-7050-111	cooling hose LH (cut from AT01-1870-222 or -223)	
12	1	AT01-7050-109	cooling hose RH (cut from AT01-1870-222 or -223)	
13	1	AT01-7080-455	rubber plate	
14	1	AT01-4520_RSGU1.23/15W1	pipe clamp	
15	1	AT01-7050-112	rubber buffer	
16	1	AT01-4520_RSGU1.30/15W1	pipe clamp	
17	3	1809021_6,4	washer (ISO 7093 6,4x18)	
18	2	1800985_M6	locknut (ISO 10511 M6)	
19	1	AT01-7050-303	water cooler	
- 20	2	AT01-7070-110	heat protection foil (150mm)	
21	3	AT01-7080-405	hose	
22	1	AT01-7080-232	hose (Rotax: 922192)	
23	1	AT01-4510-136	hose nozzle	
24	2	AT01-4520-228	nut	
25	1	AT01-4520-100	hose (725mm, secured with cable tie AT01-4530-927)	
26	1	AT01-7050-125	cooler mounting bracket	300 - 332 / 2)
		AT01-7050-149	cooler mounting bracket (new oil cooler)	333 - 999 / 2)
27	2	1800933_M6x12	bolt (ISO 4017 M6x12 8.8)	
28	2	AT01-7050-132	spacer sleeve	
29	2	1801207_M6x10_PA	bolt (ISO 1207 M6x10 PA)	
30	2	AT01-1840-582	Benloc receptacle	
31	4	1807337_3,2x6 ES/ES	rivet (ISO 15984 3,2x6 A2/A2)	
-32	1	AT01-7050-013	winterization kit ("Remove if OAT > 10°C")	
		AT01-7050-014	winterization kit ("Remove if OAT > 5°C" / optional for lower OAT)	

1) Refer to SB-AT01-029 for retrofitting the new cooling system.

2) Refer to SI-AT01-018 (annex 18) and Rotax SI-912-024 for further information.

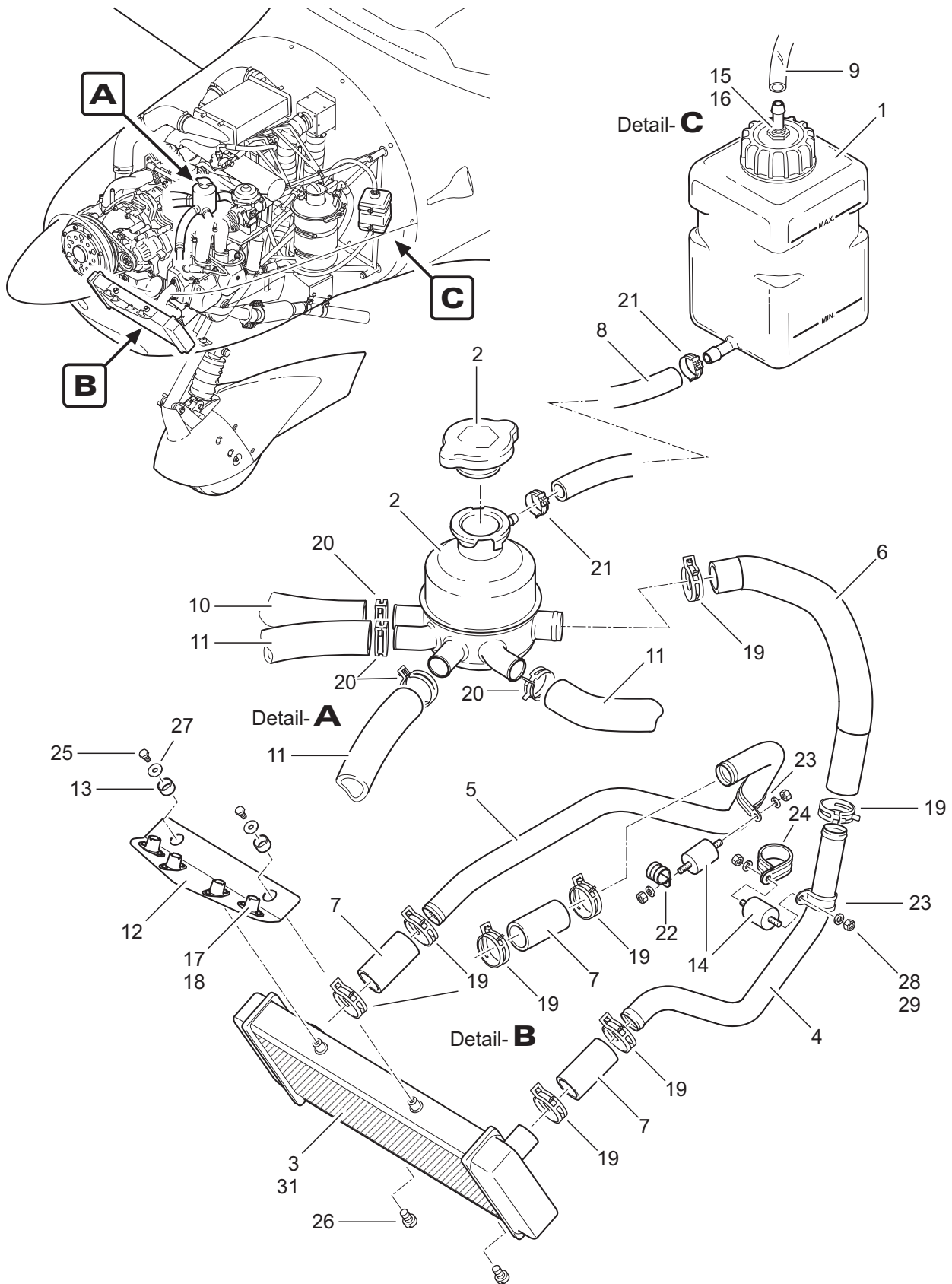
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Water Cooling
Figure 2B

75-00-00

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Water Cooling
Figure 2C

EFFECTIVITY

Aircraft equipped
with Rotax 914F

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2C			Water Cooling	Rotax 914F
1	1	AT01-7000-150	overflow bottle with cap	
2	1	AT01-7050-110	expansion tank with cap	
3	1	AT01-7050-303	water cooler	
4	1	AT01-7050-136	cooling pipe expansion tank / cooler	
5	1	AT01-7050-137	cooling pipe cooler / pump	
6	1	AT01-7080-166	cooling hose expansion tank	
7	3	AT01-7050-154	cooling hose (cut from AT01-1870-222)	
8	1	AT01-4520-630	vacuum hose (1200 mm)	
9	1	AT01-4520-100	hose (725 mm, secured with cable tie AT01-4530-927)	
10	1	AT01-7080-232	hose (Rotax: 922192)	
11	3	AT01-7080-405	hose	
12	1	AT01-7050-152	cooler mounting bracket	
13	2	AT01-7050-132	spacer sleeve	
14	2	AT01-7050-112	rubber buffer	
15	1	AT01-4510-136	hose nozzle	
16	2	AT01-4520-228	nut	
17	4	AT01-1840-582	Benloc receptacle	
18	8	1807337_3,2x6 ES/ES	rivet (ISO 15984 3,2x6 A2/A2)	
19	8	AT01-4520-458	hose clamp	
20	4	AT01-7080-409	hose clamp	
21	2	AT01-4520_COBRA_12,0/8W4	Cobra hose clamp	
22	1	AT01-4520_RSGU1.15/15W1	pipe clamp	
23	2	AT01-4520_RSGU1.23/15W1	pipe clamp	
24	1	AT01-4520_RSGU1.30/15W1	pipe clamp	
25	2	1800933_M6x12	bolt (ISO 4017 M6x12 8.8)	
26	2	1801207_M6x10_PA	bolt (ISO 1207 M6x10 PA)	367 - 371
27	2	1809021_6,4	washer (ISO 7093 6,4x18)	
28	4	1800125_6,4	washer (ISO 7089 6,4x12)	
29	4	1800985_M6	locknut (ISO 10511 M6)	
-30	0,25m	AT01-7070-110	heat protection foil (secured with safety wire AT01-1840-505)	
-31	0,30m	AT01-1900-102	foam tape (self adhesive, glued to bottom of cooler)	374 - 999
-32	1	AT01-7050-015	winterization kit Rotax 914	

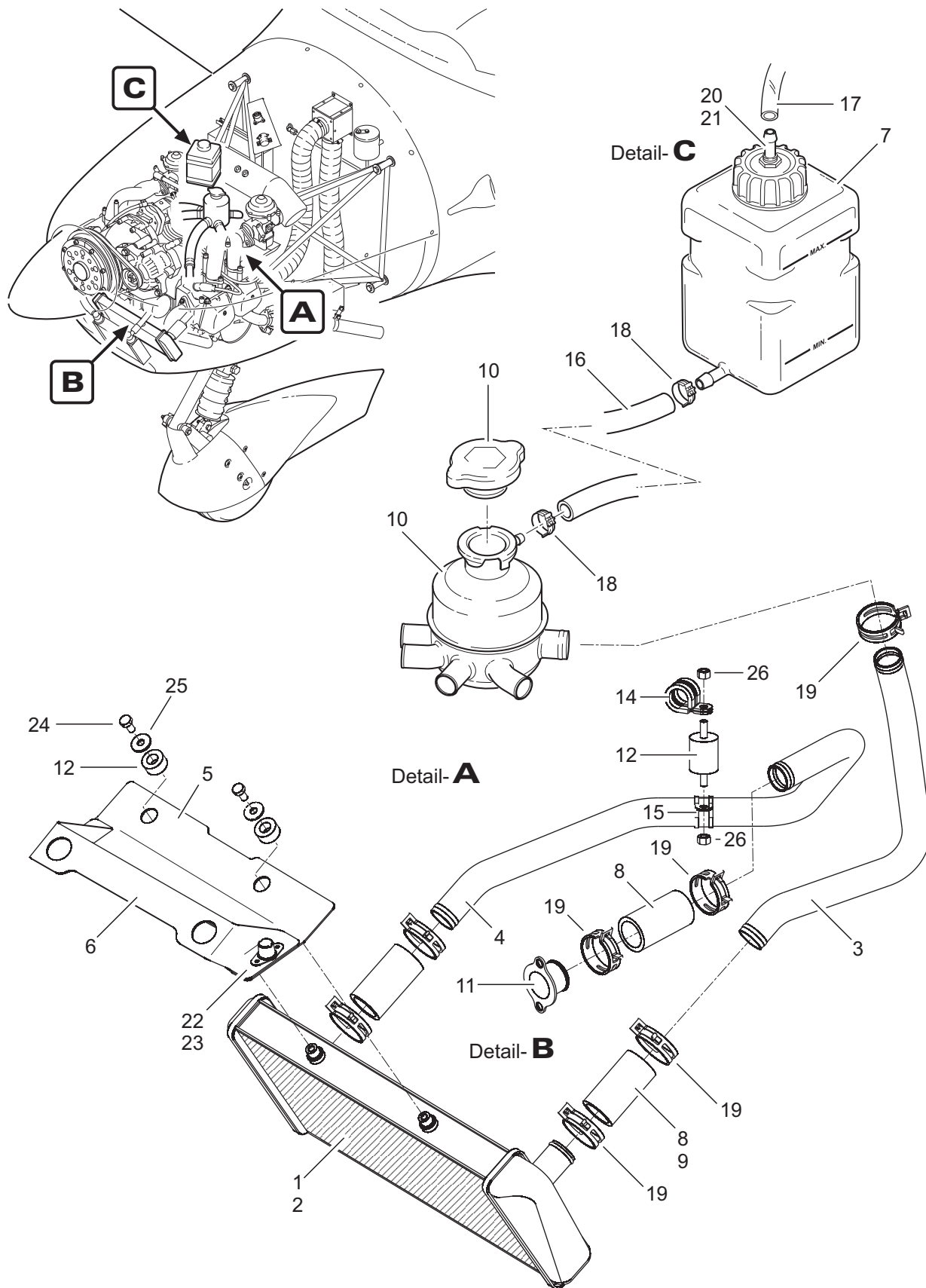
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Water Cooling
Figure 2C

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EFFECTIVITY

Aircraft equipped
with Rotax 912iS

Water Cooling
Figure 2D

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2D			Water Cooling	Rotax 912iS
1	1	AT01-7050-311	water cooler	
-2	0,3m	AT01-1900-102	foam tape (self adhesive, glued to bottom of cooler)	
3	1	AT01-7050-147	cooling pipe expansion tank / cooler	
4	1	AT01-7050-148	cooling pipe pump / cooler	
5	1	AT01-7050-156	mounting bracket water cooler	
6	1	AT01-7050-157	mounting bracket oil cooler	
7	1	AT01-7000-150	overflow bottle with cap	
8	3	AT01-7050-154	cooling hose	
-9	2	AT01-7070-110	heat protection foil (150mm)	
10	1	AT01-7050-107	expansion tank with cap	
11	1	AT01-7080-165	water pump inlet (straight)	
12	2	AT01-7050-140	spacer sleeve	
13	1	AT01-7050-112	rubber buffer	
14	1	AT01-4520_RSGU1.18/15W1	pipe clamp	
15	1	AT01-4520_RSGU1.23/15W1	pipe clamp	
16	1,2m	AT01-4520-630	vacuum hose	
17	0,8m	AT01-4520-100	hose (secured with cable tie AT01-4530-927)	
18	2	AT01-4520_COBRA_12,0/8W4	Cobra hose clamp	
19	7	AT01-4520-458	hose clamp	
20	1	AT01-4510-136	hose nozzle	
21	2	AT01-4520-228	nut	
22	2	AT01-1840-582	Benloc receptacle	
23	4	1807337_3,2x8 ES/ES	rivet (ISO 15984 3,2x8 A2/A2)	
24	2	1800933_M6x12	bolt (ISO 4017 M6x12 8.8)	
25	2	1809021_6,4	washer (ISO 7093 6,4x18)	
26	2	1800985_M6	locknut (ISO 10511 M6)	

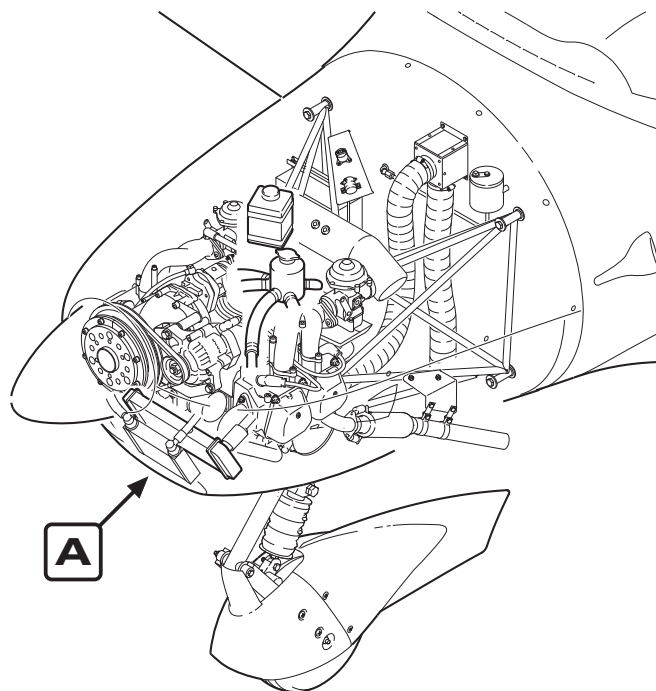
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Water Cooling
Figure 2D

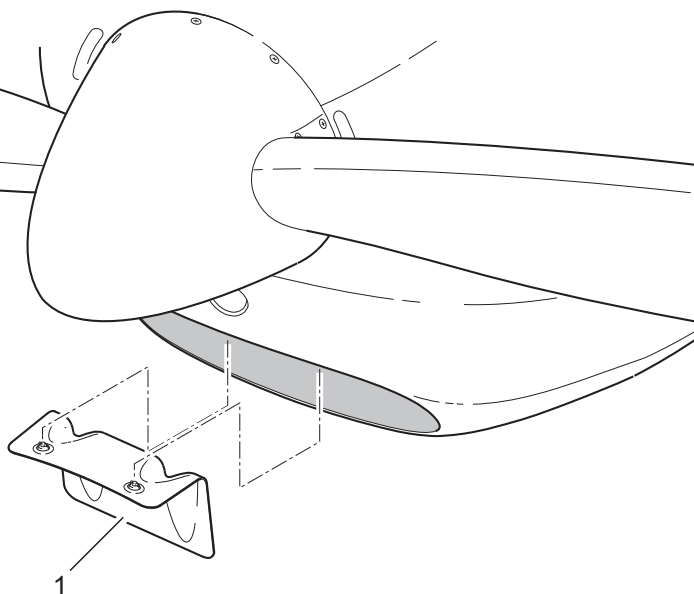
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Detail- **A**



Winterization Kit
Figure 3

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3			Winterization Kit	
1	1	AT01-7050-003	winterization kit Rotax 912S (combined oil / water cooler) ("Remove if OAT > 15°C")	Rotax 912S 101 - 299 / 1)
		AT01-7050-013	winterization kit Rotax 912S (separate oil / water coolers) ("Remove if OAT > 10°C")	Rotax 912S 300 - 999 / 1)
		AT01-7050-014	winterization kit Rotax 912S (separate oil / water coolers) ("Remove if OAT > 5°C" / for lower OAT)	Rotax 912S 300 - 999 / 1)
		AT01-7050-015	winterization kit Rotax 914 ("Remove if OAT > 5°C")	Rotax 914F

1) A new cooling system has been developed due to new operating limitations and a change of coolant with new Rotax cylinder heads. Refer to SB-AT01-029 for retrofitting the new cooling system.



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CHAPTER 76
ENGINE CONTROLS



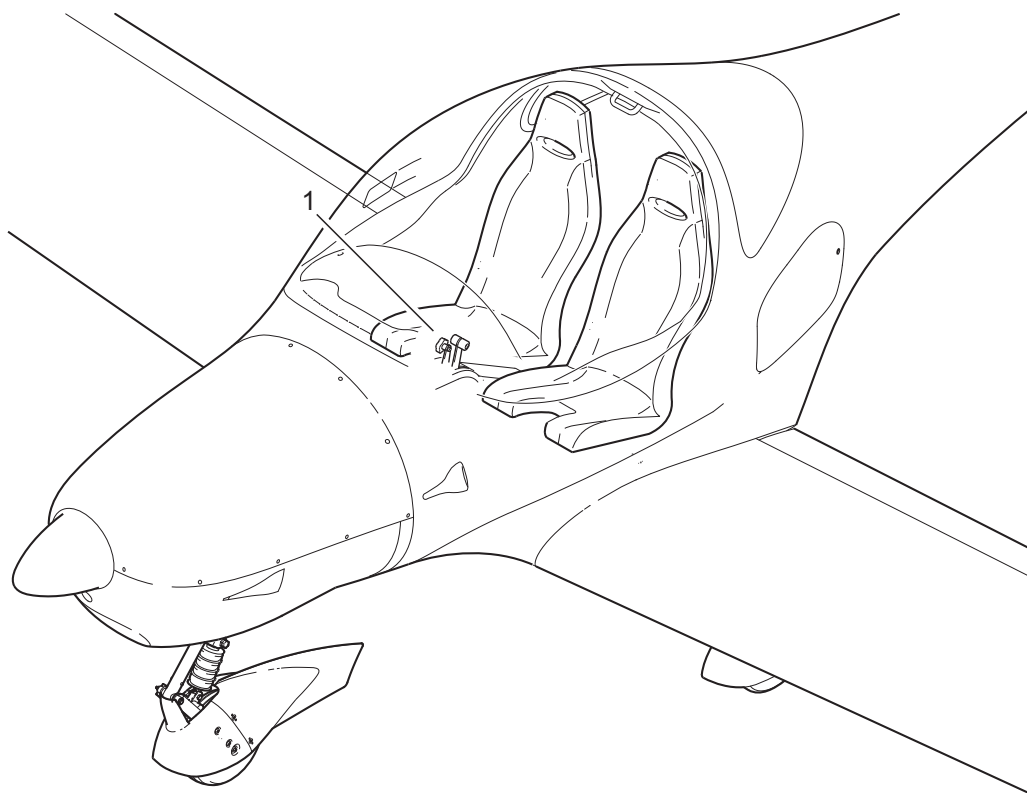
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Throttle / Propeller Control Installation	76-00-00	4B	Rotax 914F
Throttle / Propeller Control Installation	76-00-00	4C	Rotax 912iS
Choke Control Installation	76-00-00	6	Rotax 912S/914F
Carburetor Heat / Alternate Air Control Installation	76-00-00	8A	Rotax 912S/iS
Carburetor Heat / Alternate Air Control Installation	76-00-00	8B	Rotax 914F
Turbo Charger Control Installation	76-00-00	10	Rotax 914F

**ENGINE CONTROLS
GENERAL**



Engine Controls - General
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Engine Controls - General	
	1		Throttle / Propeller Control Installation (refer to 76-00-00, figure 2A for details)	Rotax 912S
	1		Throttle / Propeller Control Installation (refer to 76-00-00, figure 2B for details)	Rotax 914F
	1		Throttle / Propeller Control Installation (refer to 76-00-00, figure 2C for details)	Rotax 912iS
	-2		Choke Control Installation (refer to 76-00-00, figure 3 for details)	Rotax 912S/914F
	-3		Carburetor Heat / Alternate Air Control Installation (refer to 76-00-00, figure 4A for details)	Rotax 912S/iS
	-3		Carburetor Heat / Alternate Air Control Installation (refer to 76-00-00, figure 4B for details)	Rotax 914F
	-4		Turbo Charger Control Installation (refer to 76-00-00, figure 5 for details)	Rotax 914F

- Item not illustrated

Engine Controls - General
Figure 1

76-00-00

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Aircraft equipped
with Rotax 912S

Throttle / Propeller Control Installation

Figure 2A

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2A			Throttle / Propeller Control Installation	Rotax 912S
1	1	AT01-7020-124	guide plate	
2	1	AT01-7020-004	throttle control lever	
3	1	AT01-7020-005	propeller pitch control lever	
4	1	AT01-7020-102	knob	
5	1	AT01-7020-125	stopper plate	
6	1	AT01-7020-120	mounting bracket (replaced by AT01-7020-146)	
		AT01-7020-146	mounting bracket	
7	1	AT01-7020-121	axle latching (use only with AT01-7020-120)	
		AT01-7020-147	axle latching (use only with AT01-7020-146)	
8	1	AT01-7020-122	bushing	
9	1	AT01-7020-117	axle	
10	2	1800931_M6x60	bolt (ISO 4014 M6x60 8.8)	
11	3	1800933_M6x25	bolt (ISO 4017 M6x25 8.8)	
12	4	1800933_M5x16	bolt (ISO 4017 M5x16 8.8)	
13	2	AT01-7020-123	bushing	
14	6	1800985_M6	locknut (ISO 10511 M6)	
15	3	1800125_6,4	washer (ISO 7089 6,4x12)	
16	1	1800125_4,3	washer (ISO 7089 4,3x8)	
17	1	1807380_4x8	bolt (ISO 7380 M4x8)	
18	2	1800934_M6	nut (DIN 934 M6)	
19	1	1800933_M6x40	bolt (ISO 4017 M6x40 8.8)	
20	1	AT01-7020-119	bushing	
21	4	AT01-7020-145	bearing plate	
22	4	AT01-7020-112	friction washer	
23	5	1802093_8,2	disc spring (DIN 2093 8,2x16x0,9)	
24	9	1800125_5,3	washer (ISO 7089 5,3x10)	
25	4	1800985_M5	locknut (ISO 10511 M5)	
26	2	AT01-7020-107	cable clamping screw	
27	4	1807337_4x8Al/St	rivet (ISO 15984 4x8 Al/St)	
28	3	1800439_M6	nut (ISO 4035 M6)	
29	3	AT01-4510-135	adjusting screw	
30	3	AT01-7020-132	nut	
31	2	AT01-7020-108	Bowden cable (1465 mm)	
32	1	AT01-7020-108	Bowden cable (1870 mm)	
33	2	AT01-7020-130	Bowden cable housing (1235 mm)	
34	1	AT01-7020-130	Bowden cable housing (1530 mm)	

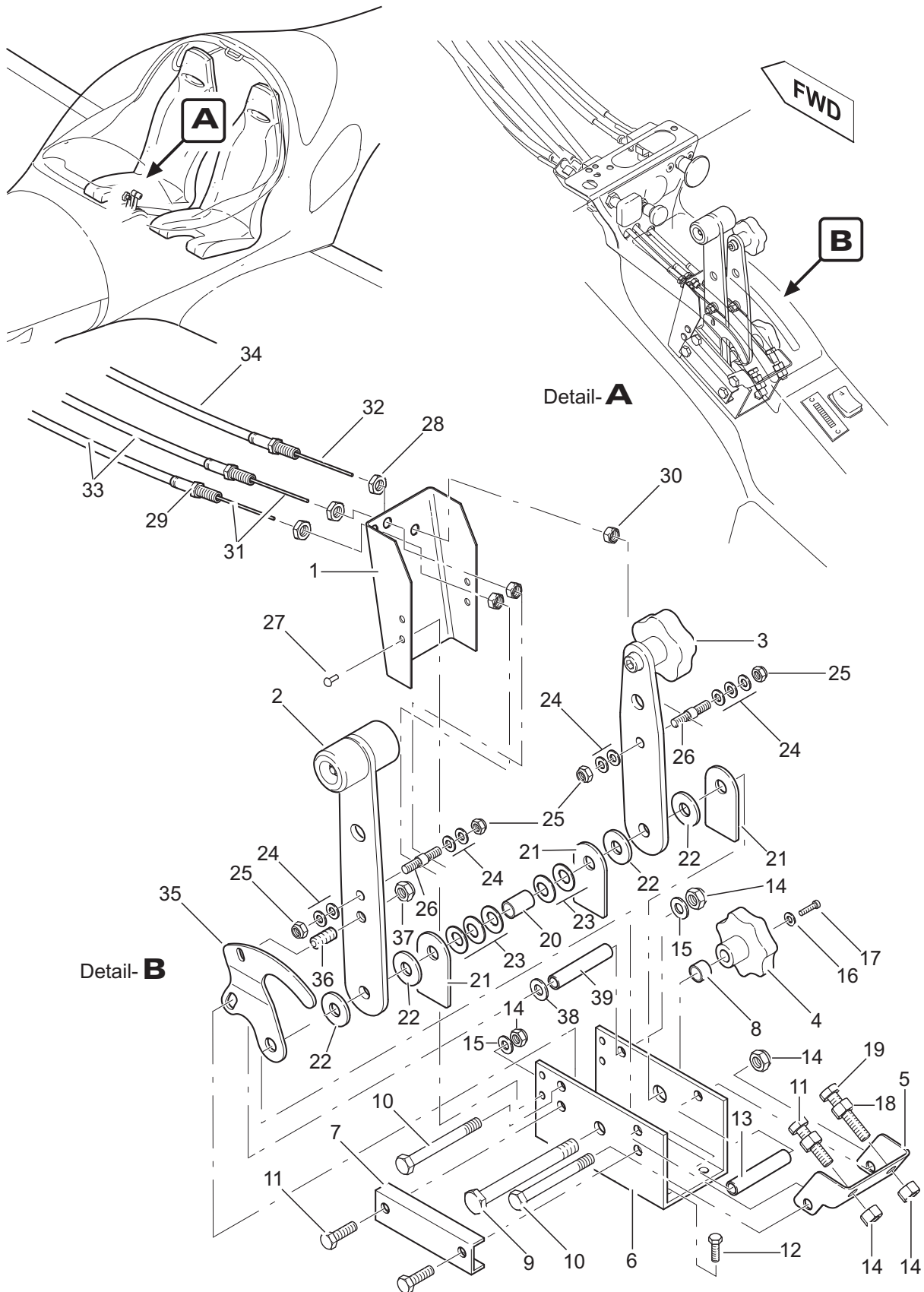
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Throttle / Propeller Control Installation
Figure 2A

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EFFECTIVITY

Aircraft equipped
with Rotax 914F

76-00-00

Page 4B

31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2B			Throttle / Propeller Control Installation	Rotax 914F
1	1	AT01-7020-124	guide plate	
2	1	AT01-7020-004	throttle control lever	
3	1	AT01-7020-005	propeller pitch control lever	
4	1	AT01-7020-102	knob	
5	1	AT01-7020-125	stopper plate	
6	1	AT01-7020-146	mounting bracket	
7	1	AT01-7020-147	axle latching	
8	1	AT01-7020-122	bushing	
9	1	AT01-7020-117	axle	
10	2	1800931_M6x60	bolt (ISO 4014 M6x60 8.8)	
11	3	1800933_M6x25	bolt (ISO 4017 M6x25 8.8)	
12	4	1800933_M5x16	bolt (ISO 4017 M5x16 8.8)	
13	1	AT01-7020-123	bushing	
14	6	1800985_M6	locknut (ISO 10511 M6)	
15	3	1800125_6,4	washer (ISO 7089 6,4x12)	
16	1	1800125_4,3	washer (ISO 7089 4,3x8)	
17	1	1807380_4x8	bolt (ISO 7380 M4x8)	
18	2	1800934_M6	nut (DIN 934 M6)	
19	1	1800933_M6x40	bolt (ISO 4017 M6x40 8.8)	
20	1	AT01-7020-119	bushing	
21	3	AT01-7020-145	bearing plate	
22	4	AT01-7020-112	friction washer	
23	5	1802093_8,2	disc spring (DIN 2093 8,2x16x0,9)	
24	9	1800125_5,3	washer (ISO 7089 5,3x10)	
25	4	1800985_M5	locknut (ISO 10511 M5)	
26	2	AT01-7020-107	cable clamping screw	
27	4	1807337_4x8Al/St	rivet (ISO 15984 4x8 Al/St)	
28	3	1800439_M6	nut (ISO 4035 M6)	
29	3	AT01-4510-135	adjusting screw	
30	3	AT01-7020-132	nut	
31	2	AT01-7020-108	Bowden cable (1440 mm)	
32	1	AT01-7020-108	Bowden cable (1785 mm)	
33	2	AT01-7020-130	Bowden cable housing (1170 mm)	
34	1	AT01-7020-130	Bowden cable housing (1450 mm)	
35	1	AT01-7020-149	detent plate	
36	1	AT01-1860-112	spring plunger M8	
37	1	1800985_M8	locknut (ISO 10511 M8)	
38	1	1800988_6/1	adjusting washer (DIN 988 6x12x1)	
39	1	AT01-7020-148	bushing (short)	

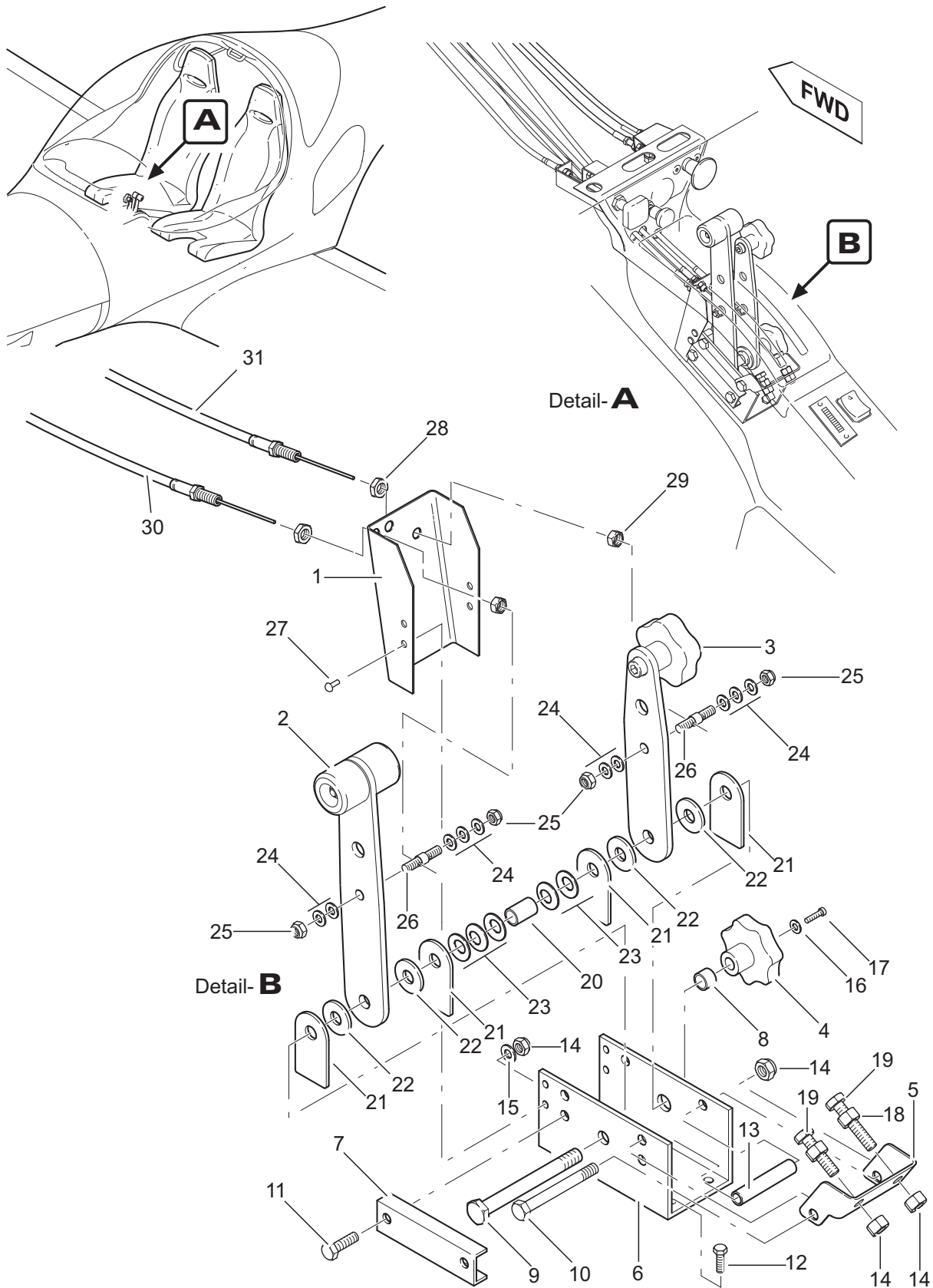
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Throttle / Propeller Control Installation
Figure 2B

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EFFECTIVITY
Aircraft equipped
with Rotax 912iS

Throttle / Propeller Control Installation
Figure 2C

76-00-00

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31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2C			Throttle / Propeller Control Installation	Rotax 912iS
1	1	AT01-7020-124	guide plate	
2	1	AT01-7020-004	throttle control lever	
3	1	AT01-7020-005	propeller pitch control lever	
4	1	AT01-7020-102	knob	
5	1	AT01-7020-125	stopper plate	
6	1	AT01-7020-146	mounting bracket	
7	1	AT01-7020-147	axle latching	
8	1	AT01-7020-122	bushing	
9	1	AT01-7020-117	axle	
10	2	1800931_M6x60	bolt (ISO 4014 M6x60 8.8)	
11	2	1800933_M6x25	bolt (ISO 4017 M6x25 8.8)	
12	4	1800933_M5x16	bolt (ISO 4017 M5x16 8.8)	
13	2	AT01-7020-123	bushing	
14	6	1800985_M6	locknut (ISO 10511 M6)	
15	3	1800125_6,4	washer (ISO 7089 6,4x12)	
16	1	1800125_4,3	washer (ISO 7089 4,3x8)	
17	1	1807380_4x8	bolt (ISO 7380 M4x8)	
18	2	1800934_M6	nut (DIN 934 M6)	
19	2	1800933_M6x40	bolt (ISO 4017 M6x40 8.8)	
20	1	AT01-7020-119	bushing	
21	4	AT01-7020-145	bearing plate	
22	4	AT01-7020-112	friction washer	
23	5	1802093_8,2	disc spring (DIN 2093 8,2x16x0,9)	
24	10	1800125_5,3	washer (ISO 7089 5,3x10)	
25	4	1800985_M5	locknut (ISO 10511 M5)	
26	2	AT01-7020-107	cable clamping screw	
27	4	1807337_4x8Al/St	rivet (ISO 15984 4x8 Al/St)	
28	2	1800439_M6	nut (ISO 4035 M6)	
29	2	AT01-7020-132	nut	
30	1	AT01-7020-025	throttle control cable (incl. adjusting screws and nuts)	
31	1	AT01-7020-026	propeller control cable (incl. adjusting screw and nuts)	

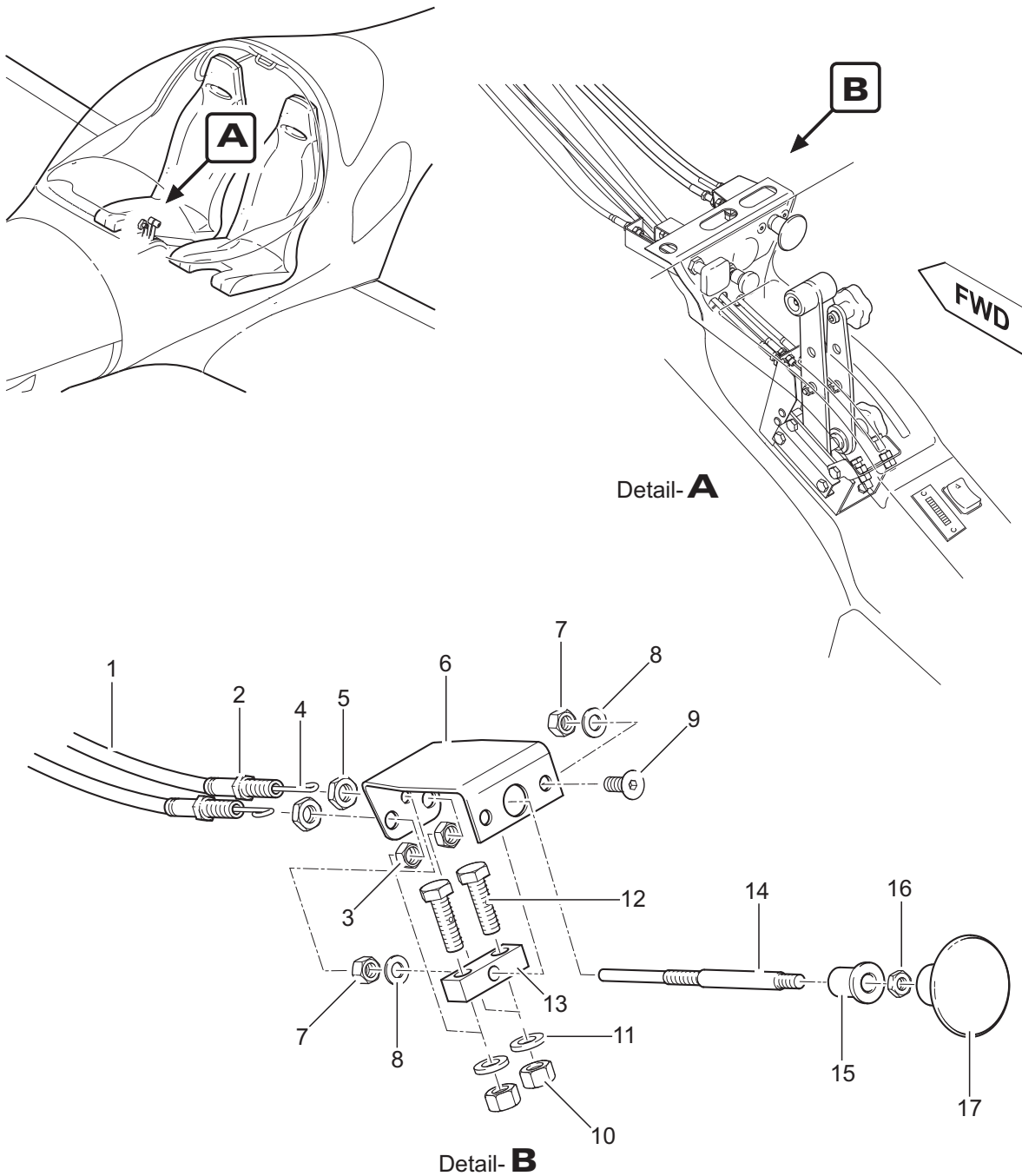
- Item not illustrated

Throttle / Propeller Control Installation
Figure 2C

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EFFECTIVITY

Aircraft equipped
with Rotax 912S /
Rotax 914F

Choke Control Installation
Figure 3

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3			Choke Control Installation	Rotax 912S/914F
1	2	AT01-7020-130	Bowden cable housing (1030 mm)	Rotax 912S
		AT01-7020-130	Bowden cable housing (975 mm)	Rotax 914F
2	2	AT01-4510-135	adjusting screw	
3	2	AT01-7020-132	nut	
4	2	AT01-7020-016	control wire (1205 mm)	Rotax 912S
		AT01-7020-017	control wire (1150 mm)	Rotax 914F
5	2	1800439_M6	nut (ISO 4035 M6)	
6	1	AT01-7020-118	mounting bracket	
7	3	1800985_M5	locknut (ISO 10511 M5)	
8	3	1800125_5,3	washer (ISO 7089 5,3x10)	
9	2	1807991_M5x10	bolt (ISO 10642 M5x10 8.8)	
10	2	1800985_M6	locknut (ISO 10511 M6)	
11	2	1800125_6,4	washer (ISO 7089 6,4x10)	
12	2	AT01-7020-110	clamping screw	
13	1	AT01-7020-111	clamp	
14	1	AT01-7020-109	pull rod	
15	1	1850028	bearing bush	
16	1	1800439_M5	nut (ISO 4035 M5)	
17	1	AT01-7020-128	control knob	

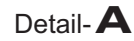
- Item not illustrated

Choke Control Installation
Figure 3

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Aircraft equipped
with Rotax 912S /
Rotax 912iS

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
4A			Carburetor Heat / Alternate Air Control Installation	Rotax 912S/iS
1	1	AT01-7020-027	alternate air control cable (incl. item. 2-7)	
2	1	AT01-7020-018	control wire assembly (1320 mm / incl. pull rod)	
3	1	AT01-7020-130	Bowden cable housing (1080 mm)	
-4	0,9m	AT01-4520-424	PVC hose (500 mm in front of / 400 mm behind firewall)	
5	2	AT01-4510-135	adjusting screw	
6	2	AT01-7020-132	nut	Rotax 912S
		1800439_M6	nut (ISO 4035 M6)	Rotax 912iS
7	3	1800439_M6	nut (ISO 4035 M6)	
8	1	AT01-7020-114	mounting bracket	
9	1	AT01-7020-106	control knob	
10	1	AT01-4510-149	bulkhead fitting	
11	1	AT01-4520-228	nut	

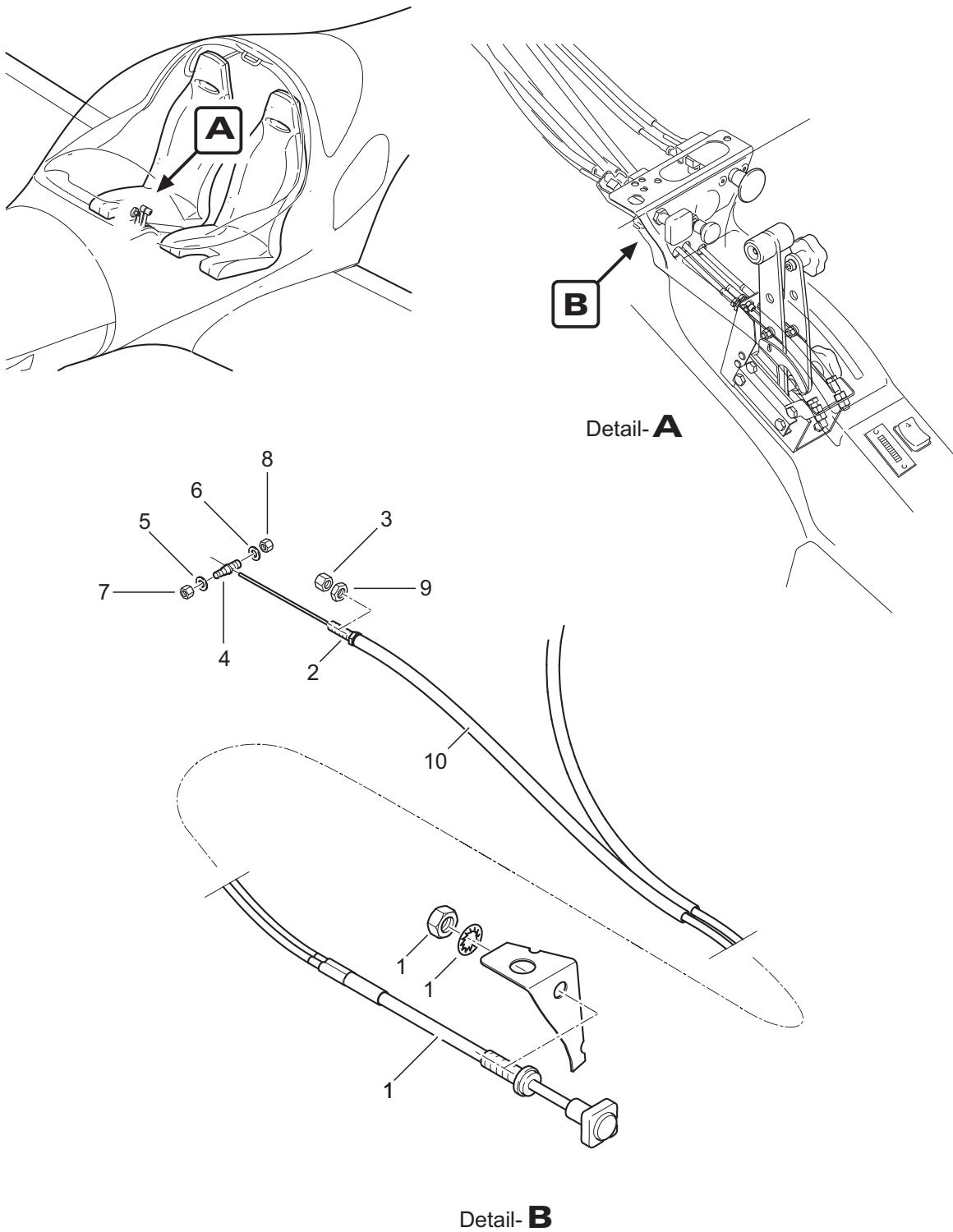
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Carburetor Heat / Alternate Air Control Installation
Figure 4A

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EFFECTIVITY

Aircraft equipped
with Rotax 914F

Carburetor Heat / Alternate Air Control Installation
Figure 4B

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
4B			Carburetor Heat / Alternate Air Control Installation	Rotax 914F
1	1	AT01-7020-020	dual push-to-unlock control assembly (incl. lockwasher and nut)	
2	2	AT01-4510-135	adjusting screw	
3	2	AT01-7020-132	nut	
4	2	AT01-2600-107	cable clamping screw	
5	2	1800125_4,3	washer (ISO 7089 4,3x9)	
6	2	1800125_5,3	washer (ISO 7089 5,3x10)	
7	2	1800985_M4	locknut (ISO 10511 M4)	
8	2	1800985_M5	locknut (ISO 10511 M5)	
9	2	1800439_M6	nut (ISO 4035 M6)	
10	AR	AT01-4520-424	PVC hose	

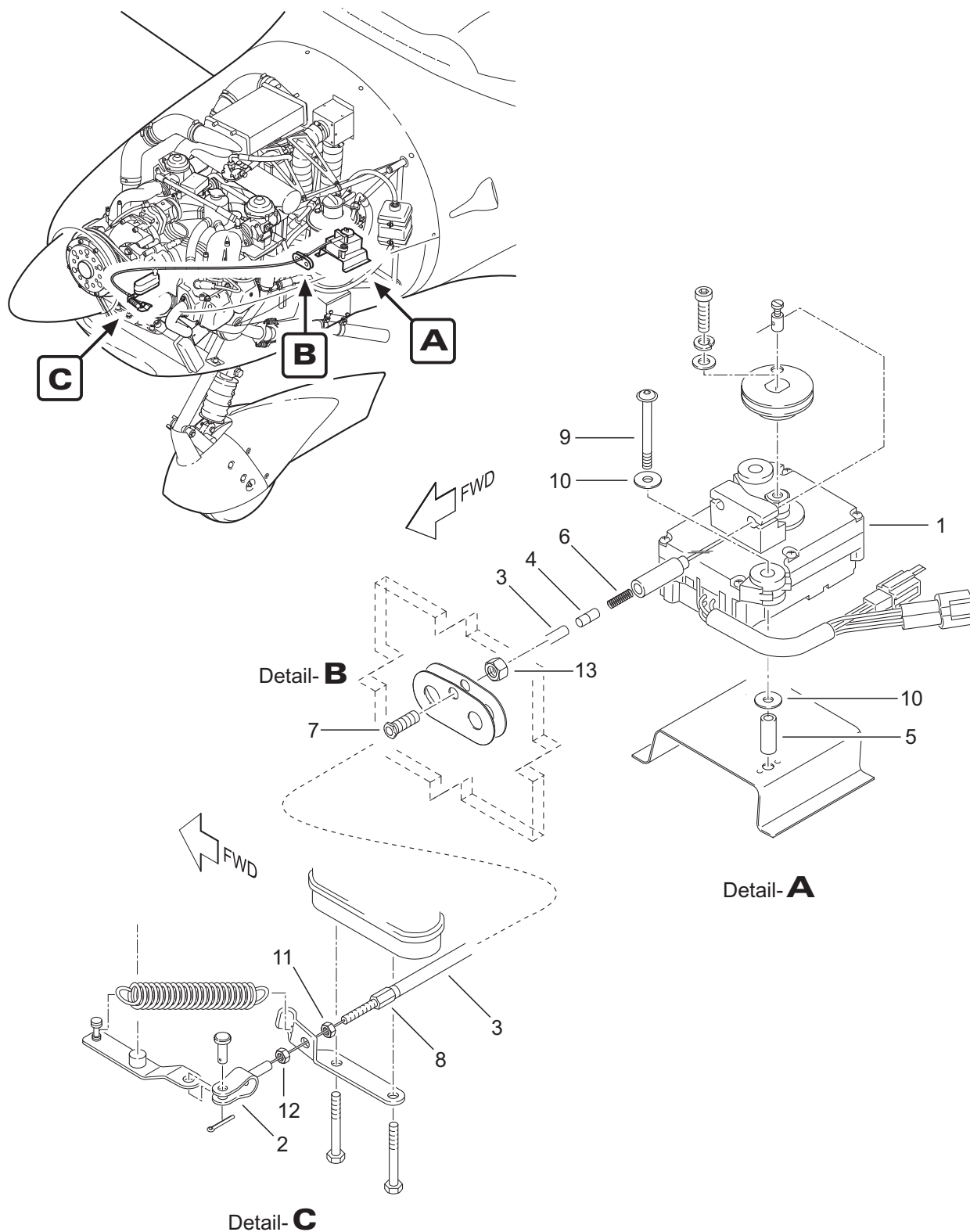
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Carburetor Heat / Alternate Air Control Installation
Figure 4B

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EFFECTIVITY

Aircraft equipped
with Rotax 914F

Turbo Charger Control Installation
Figure 5

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
5			Turbo Charger Control Installation	Rotax 914F
1	1	AT01-7080-348	wastegate motor	
2	1	AT01-7080-167	wastegate control Bowden cable wire assembly	
3	1	AT01-7020-130	Bowden cable housing (800 mm)	
4	1	AT01-7000-126	bushing	
5	2	AT01-7000-127	spacer sleeve	
6	1	Ro 239015	compression spring	
7	1	AT01-7000-138	firewall bushing	
8	1	AT01-4510-135	adjusting screw	
9	2	1807380_6x55 ULF	bolt (ISO 7380 M6x55 ULF)	
10	4	1809021_6,4	washer (ISO 7093 6,4x18)	
11	1	1800439_M6	nut (ISO 4035 M6)	
12	1	1800980_M06_10	locknut (ISO 7042 M6)	
13	1	1800985_M8	locknut (ISO 10511 M8)	

- Item not illustrated

Turbo Charger Control Installation
Figure 5

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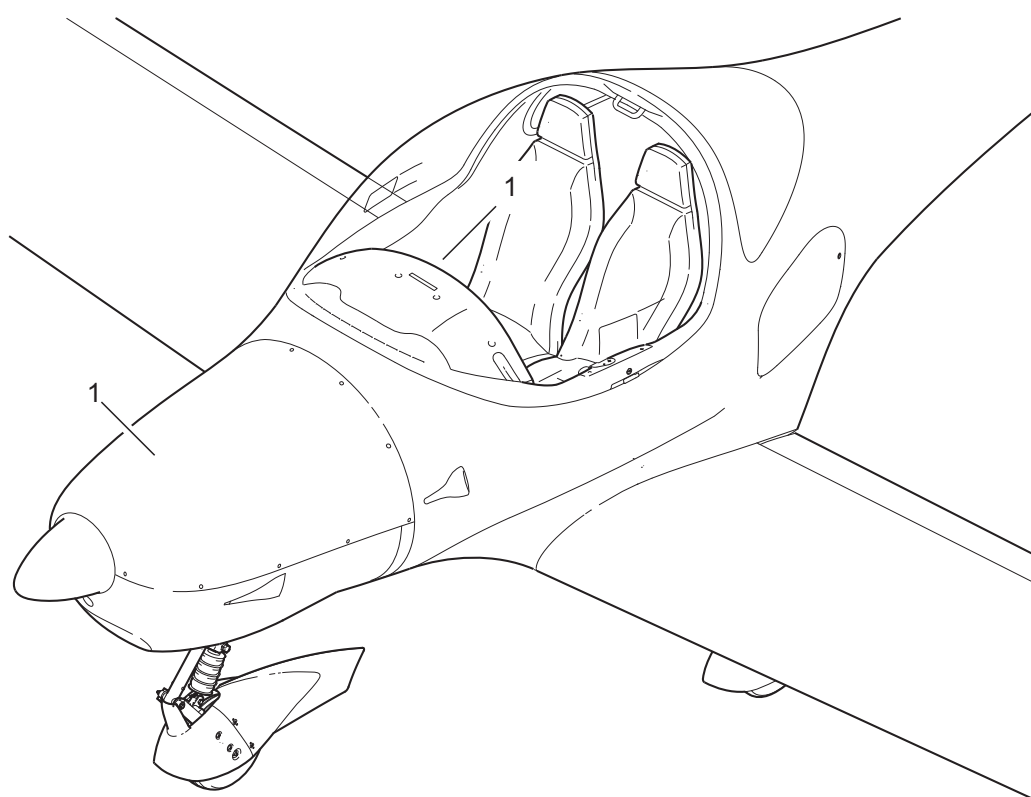
AQUILA AT01
ILLUSTRATED PARTS CATALOG

CHAPTER 77
ENGINE INDICATING

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**ENGINE INDICATING
GENERAL**



Engine Indicating - General
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Engine Indicating - General	
	1		Engine Indicating - Instruments / Sensors (refer to 77-00-00, figure 2A for details)	analog instr. 101 - 299
	1		Engine Indicating - Instruments / Sensors (refer to 77-00-00, figure 2B for details)	analog instr. 300 - 999
	1		Engine Indicating - Instruments / Sensors (refer to 77-00-00, figure 2C for details)	Garmin G3X
	1		Engine Indicating - Instruments / Sensors (refer to 77-00-00, figure 2D for details)	MVP-50

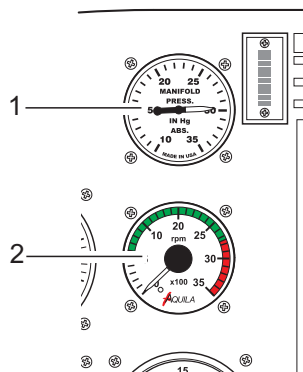
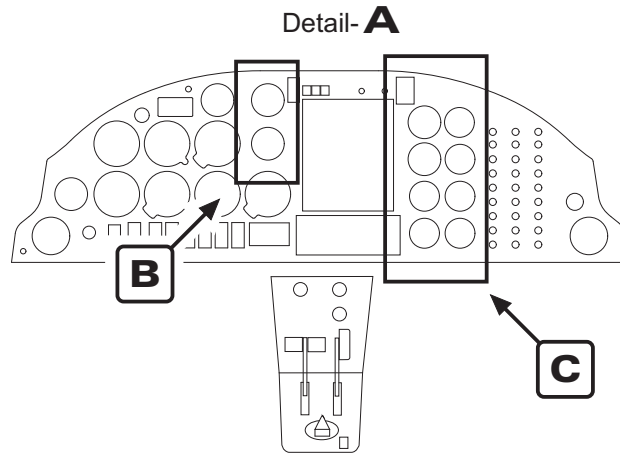
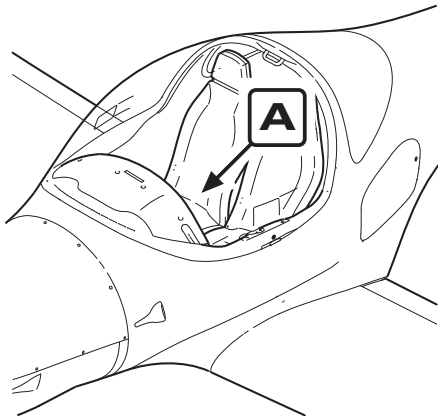
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Engine Indicating - General
Figure 1

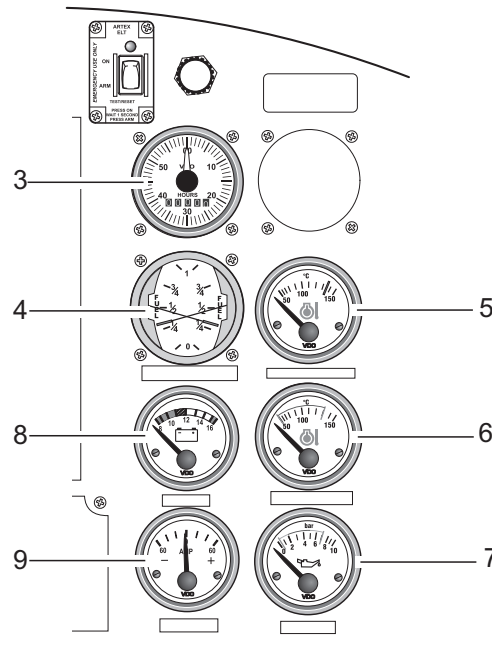
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Detail- B



Detail- C

EFFECTIVITY

Aircraft equipped
with analog instr.
101 - 299

Engine Indicating - Instruments / Sensors
Figure 2A

77-00-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2A			Engine Indicating - Instruments / Sensors	analog instr. 101 - 299
1	1	AT01-2840-129	manifold pressure gauge	
2	1	AT01-7030-100	propeller tachometer Aviasport	1)
	1	AT01-7030-103	propeller tachometer UMA (optional)	
3	1	AT01-2840-185	operating hours meter (VDO)	
	1	AT01-2840-186	operating hours meter (Winter; FSZM analog)	
	1	AT01-2840-188	operating hours meter	
	1	AT01-2840-189	operating hours meter (Bauser)	
	1	AT01-2840-190	operating hours meter (Hobbs Hourmeter Type 5000)	
4	1	AT01-2840-122	dual fuel level gauge (capacitive type sender)	101-250 / 2)
	1	AT01-2840-203	dual fuel level gauge "NGF" (capacitive type sender)	101-250 / 2)
	1	AT01-2840-206	dual fuel level gauge (float type sender; old wiring)	251-299 / 3),5)
	1	AT01-2840-220	dual fuel level gauge (float type sender; new wiring)	251-299 / 5)
5	1	AT01-2840-127	cylinder head temperature gauge (135°C CHT limit)	6)
	1	AT01-2840-218	cylinder head temperature gauge (129°C CHT limit)	6)
	1	AT01-2840-225	cylinder head temperature gauge (120°C CHT limit)	6)
6	1	AT01-2840-123	oil temperature gauge	
7	1	AT01-2840-125	oil pressure gauge	4)
	1	AT01-2840-165	oil pressure gauge	
8	1	AT01-2840-126	voltmeter	
9	1	AT01-2840-121	ammeter	
-10	1	AT01-8040-002	fuel gauge calibration module (optional; old wiring)	251-299 / 5)
	1	AT01-8040-001	fuel gauge calibration module (optional; new wiring)	251-299 / 5)
-11	AR	AT01-4520-422	manifold pressure hose	
-12	2	AT01-4520_COBRA_11,0/7W4	pipe clamp (for item 11)	

- 1) Replaced by AT01-7030-103. Refer to SI-AT01-018 (annex 2).
- 2) Two different types of capacitive fuel level indicating systems are in use. The systems are not compatible to each other and require specific fuel level senders and gauges. Refer to 28-00-00 for further information.
- 3) No longer available. Replaced by AT01-2840-220. Refer to SI-AT01-018 (annex 1).
- 4) No longer available. Replaced by AT01-2840-165.
- 5) The calibration module is installed on the back of the fuel level gauge (float type sender only) and used for easier calibration of the gauge.

Fuel level senders

Fuel gauge calibration modules require specific levers on the fuel level senders:

If the gauge is operated without a calibration module, the lever AT01-8030-178 must be used.

If a calibration module is installed, the lever AT01-8030-186 must be used.

Wiring versions

Fuel gauge AT01-2840-206 is compatible with calibration module AT01-8040-002 only (old wiring).

Fuel gauge AT01-2840-220 is compatible with calibration module AT01-8040-001 only (new wiring).

- 6) Cylinder head temperature limit depends on the type of cooling system and the type of Rotax cylinder heads installed.
Standard cooling system (combined water/oil radiator; coolant: propylene glycol): CHT limit 135°C
Retrofit cooling system (separate water/oil radiators; coolant: water/ethylene glycol): CHT limit 120°C/129°C
Refer to SB-AT01-029 for further information.

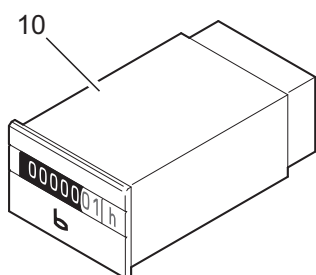
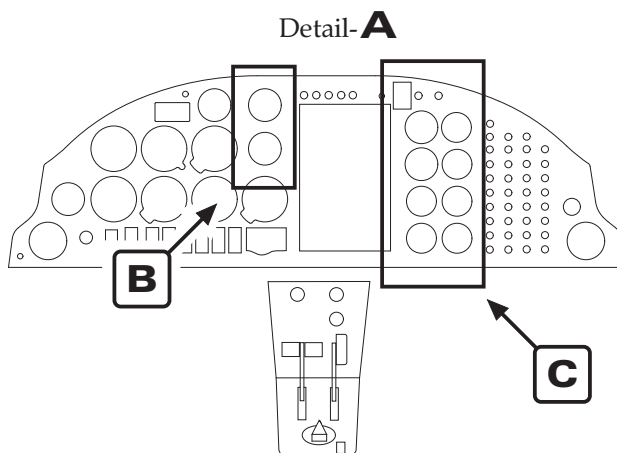
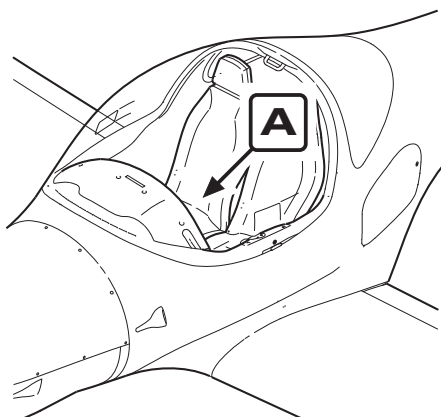
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Engine Indicating - Instruments / Sensors
Figure 2A

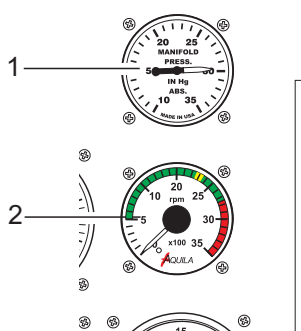
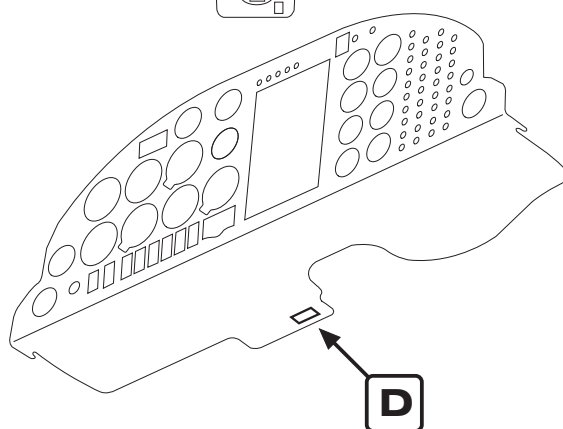
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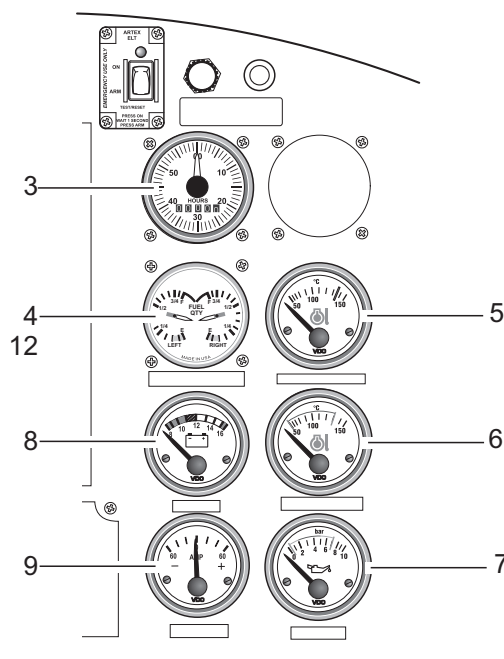
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Detail-D



Detail-B



Detail-C

EFFECTIVITY

Aircraft equipped
with analog instr.
300 - 999

Engine Indicating - Instruments / Sensors
Figure 2B

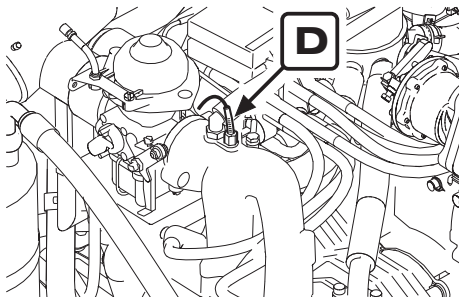
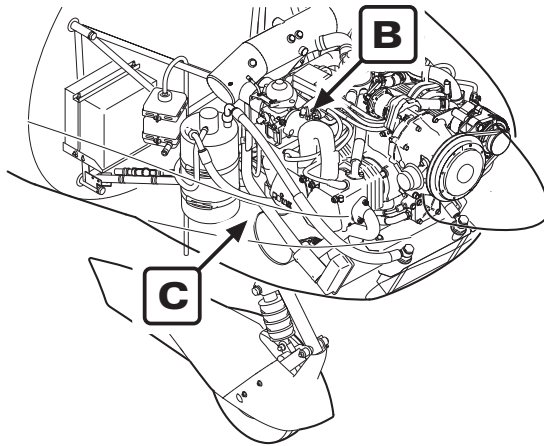
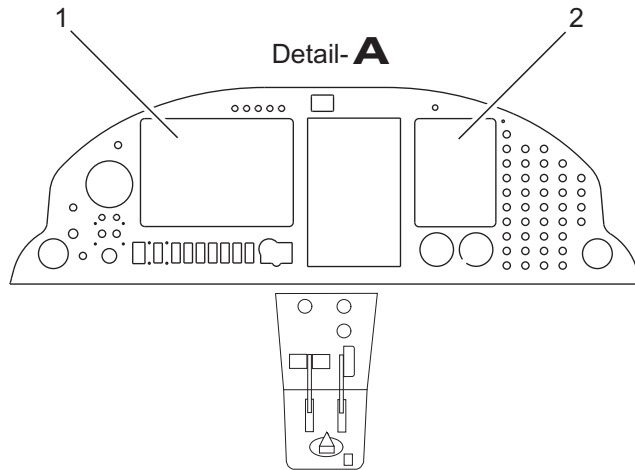
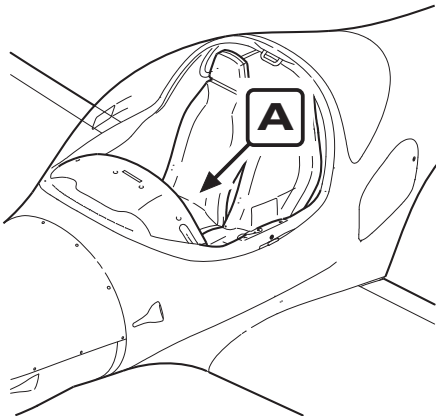
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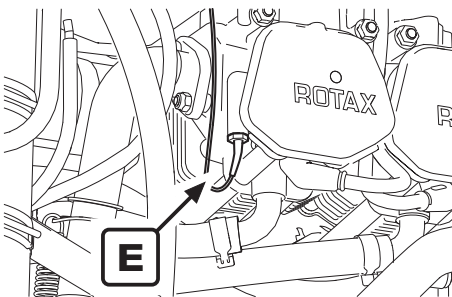
31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2B			Engine Indicating - Instruments / Sensors	analog instr. 300 - 999
1	1	AT01-2840-129	manifold pressure gauge	
2	1	AT01-7030-104	propeller tachometer	
3	1	AT01-2840-186	operating hours meter (Winter / Ø 57mm / optional)	
4	1	AT01-2840-206	dual fuel level gauge (old wiring)	300 - 309 / 1)
		AT01-2840-220	dual fuel level gauge (new wiring)	310 - 326 / 1)
		AT01-2840-226	dual fuel level gauge (new wiring)	327 - 999 / 1)
5	1	AT01-2840-218	cylinder head temperature gauge (129°C CHT limit)	3)
		AT01-2840-225	cylinder head temperature gauge (120°C CHT limit)	3)
6	1	AT01-2840-123	oil temperature gauge	
7	1	AT01-2840-165	oil pressure gauge	
8	1	AT01-2840-126	voltmeter	
9	1	AT01-2840-121	ammeter	
10	1	AT01-2840-189	operating hours meter (Bauser)	
-11	1	AT01-2840-183	operating hours meter (FliSys / Ø 57mm / optional)	
-12	1	AT01-8040-002	fuel gauge calibration module (old wiring / optional)	300 - 309 / 1),2)
		AT01-8040-001	fuel gauge calibration module (new wiring / optional)	310 - 999 / 1),2)
-13	1	AT01-7030-205	carburetor temperature indicator (optional)	
-14	1	AT01-7030-204	carburetor temperature sensor (optional)	
-15	AR	AT01-4520-422	manifold pressure hose	
-16	2	AT01-4520_COBRA_11,0/7W4	pipe clamp (for item 15)	

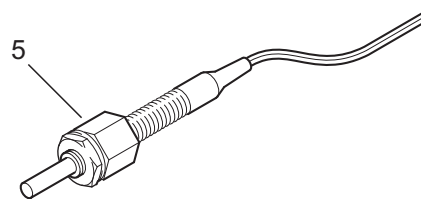
- 1) Fuel gauge AT01-2840-206 is compatible with calibration module AT01-8040-002 only (old wiring).
Fuel gauges AT01-2840-220 and -226 are compatible with calibration module AT01-8040-001 only (new wiring).
- 2) Fuel gauge calibration modules require specific levers on the fuel level sensors:
Up to S/N AT01-326: If the gauge is operated without a calibration module, the lever AT01-8030-178 must be used on the fuel level sensor. If a calibration module is used, the lever AT01-8030-186 must be used.
From S/N AT01-327: Fuel gauge operation is possible with calibration module and lever AT01-8030-187 or AT01-8030-189 / -190 only.
Refer to 28-00-00 for further information.
- 3) Cylinder head temperature limit depends on the type of Rotax cylinder heads installed.
Refer to SB-AT01-029 for further information.



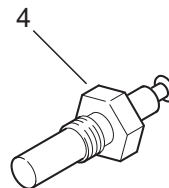
Detail-**B**



Detail-**C**



Detail-**D**



Detail-**E**

EFFECTIVITY

Aircraft equipped
with Garmin G3X

Engine Indicating - Instruments / Sensors
Figure 2C

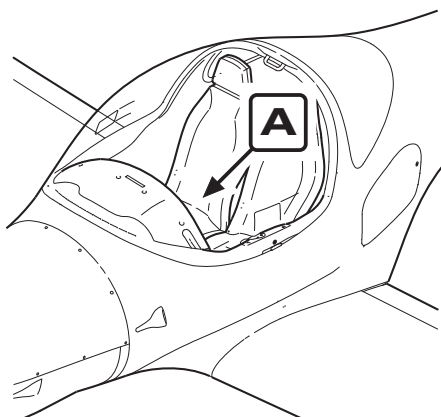
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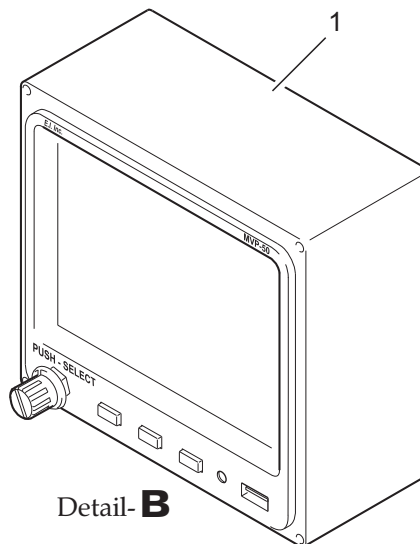
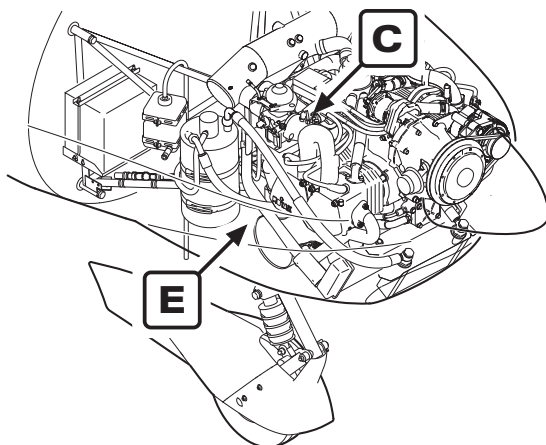
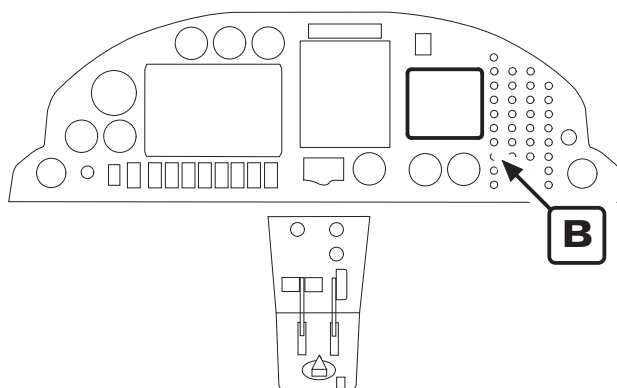
31.05.24

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2C			Engine Indicating - Instruments / Sensors	Garmin G3X
1	1	AT01-8710-450	Garmin GDU460 display unit (10")	
2	1	AT01-8710-452	Garmin GDU470 display unit (7")	
-3	1	AT01-8710-465	Garmin GEA 24B engine interface	
4	2	AT01-7050-150	CHT / coolant / oil temperature sensor (Rotax 965531)	Rotax 912S/914F
5	1	AT01-2840-227	carburetor temperature sensor	Rotax 912S/914F
		1807603A_6x10x1_AI	sealing washer for carburetor temperature sensor	
-6	AR	AT01-4530-252	temperature sensor connector plug	Rotax 912S/914F
-7	AR	AT01-4530-253	temperature sensor connector socket	Rotax 912S/914F
-8	1	AT01-8710-467	manifold pressure sensor (Kavlico P4055-30A)	Rotax 912S/914F
-9	1	AT01-7080-201	oil pressure sensor (Rotax 456180)	Rotax 912S/914F
-10	1	AT01-8710-470	fuel pressure sensor (optional)	Rotax 912S / 1)
		AT01-2840-242	fuel pressure sensor (UMA T1EU07D)	Rotax 914F
		AT01-2840-245	fuel pressure sensor (Rotax 664365)	Rotax 912iS
-11	4	AT01-7080-170	exhaust gas temperature sensor (Rotax 966370 / optional)	Rotax 914F
		AT01-7080-014	sealing washer for EGT sensor (Rotax 950141)	Rotax 914F
		AT01-7080-178	exhaust gas temperature sensor (Rotax 951360)	Rotax 912iS
-12	AR	AT01-4520-422	manifold pressure hose	Rotax 912S/914F
-13	2	AT01-4520_COBRA_11,0/7W4	pipe clamp (for item 12)	Rotax 912S/914F

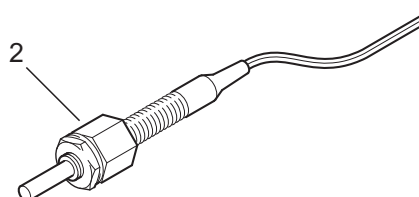
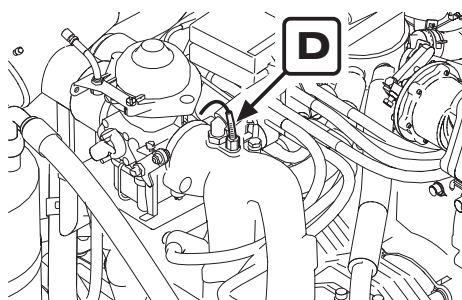
1) Refer to SI-AT01-028 for retrofitting fuel pressure indication.



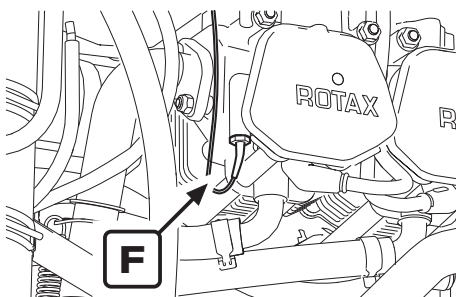
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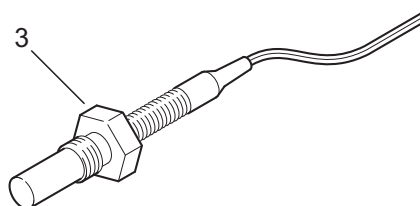
Detail-**B**



Detail-**D**



Detail-**E**



Detail-**F**

EFFECTIVITY

Aircraft equipped
with MVP-50 engine
monitoring system

Engine Indicating - Instruments / Sensors
Figure 2D (1)

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2D (1)			Engine Indicating - Instruments / Sensors	MVP-50
1	1	AT01-2840-111	engine monitoring system display	Rotax 912S
		AT01-2840-113	engine monitoring system display	Rotax 914F
2	1	AT01-2840-227	carburetor temperature sensor (replaces AT01-7030-204)	
		1807603A_6x10x1_AI	sealing washer for carburetor temperature sensor	
3	1	AT01-2840-217	cylinder head temperature sensor P-103	
		1807603A_10x13,5x1_AI	sealing washer for cylinder head temperature sensor	
-4	AR	AT01-4530-252	temperature sensor connector plug	
-5	AR	AT01-4530-253	temperature sensor connector socket	
-6	AR	AT01-4520-422	manifold pressure hose (engine compartment)	
-7	2	AT01-4520_COBRA_11,0/7W4	pipe clamp (for item 6)	

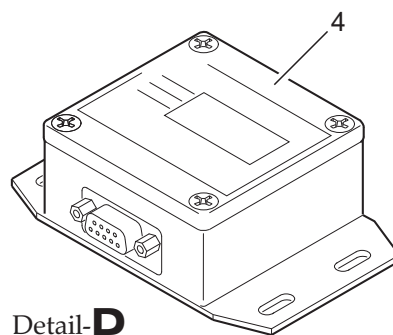
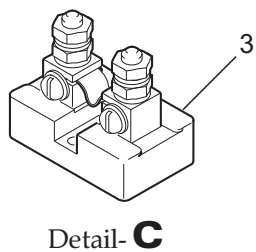
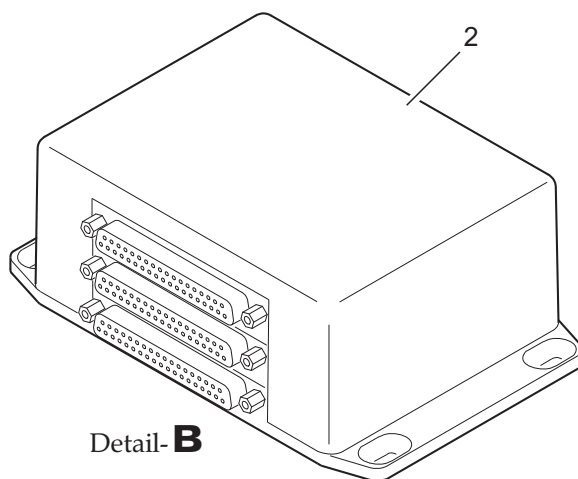
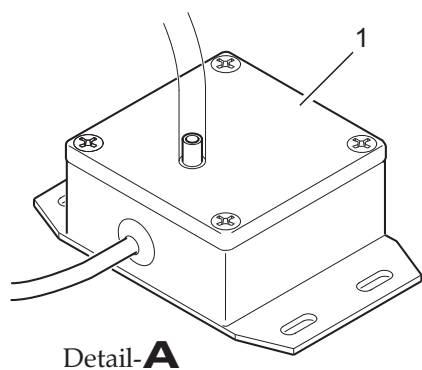
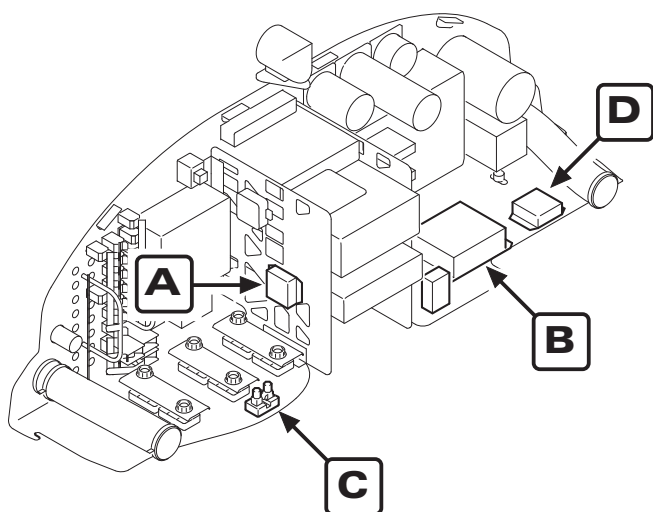
- Item not illustrated

Engine Indicating - Instruments / Sensors
Figure 2D (1)

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EFFECTIVITY

Aircraft equipped
with MVP-50 engine
monitoring system

Engine Indicating - Instruments / Sensors
Figure 2D (2)

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2D (2)			Engine Indicating - Instruments / Sensors	MVP-50
1	1	AT01-2840-209	manifold pressure transducer PT-30ABS	Rotax 912S
		AT01-2840-221	manifold pressure transducer PT-60ABS	Rotax 914F
2	1	AT01-2840-210	engine data converter	
3	1	AT01-4530-682	external shunt	
4	1	AT01-2840-212	resistive fuel level module	
-5	1	AT01-2840-211	temperature compensator	
-6	1	AT01-2840-213	engine speed interface Rotax	
-7	1	AT01-2840-214	outside air temperature sensor P-128	optional
-8	1	AT01-2840-247	voltmeter / ammeter module	Rotax 914F

- Item not illustrated

Engine Indicating - Instruments / Sensors
Figure 2D (2)

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AQUILA AT01
ILLUSTRATED PARTS CATALOG

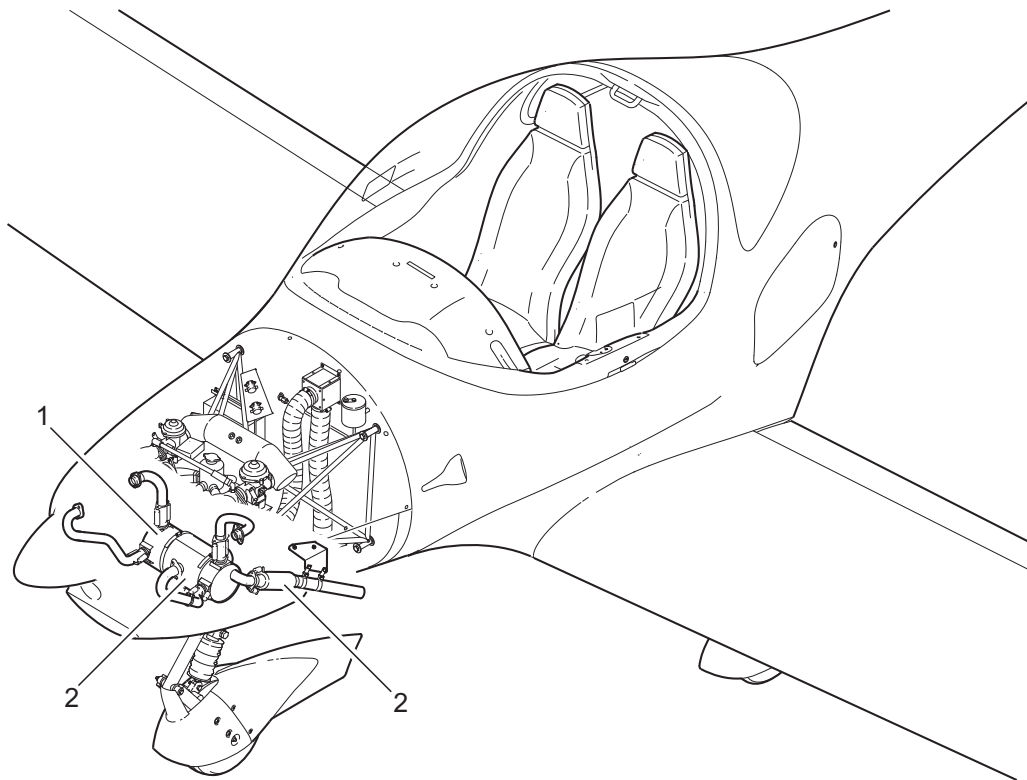
CHAPTER 78

EXHAUST

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Heat Exchanger / Rear Muffler Installation	78-00-00	6C	Rotax 914F

EXHAUST - GENERAL



Exhaust - General
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Exhaust - General	
	1		Main Muffler Installation (refer to 78-00-00, figure 2 for details)	Rotax 912S/iS
	2		Heat Exchanger / Rear Muffler Installation (refer to 78-00-00, figure 3A for details)	Rotax 912S 101 - 400
	-2		Heat Exchanger / Rear Muffler Installation (refer to 78-00-00, figure 3B for details)	Rotax 912S/iS 401 - 999
	-2		Heat Exchanger / Rear Muffler Installation (refer to 78-00-00, figure 3C for details)	Rotax 914F

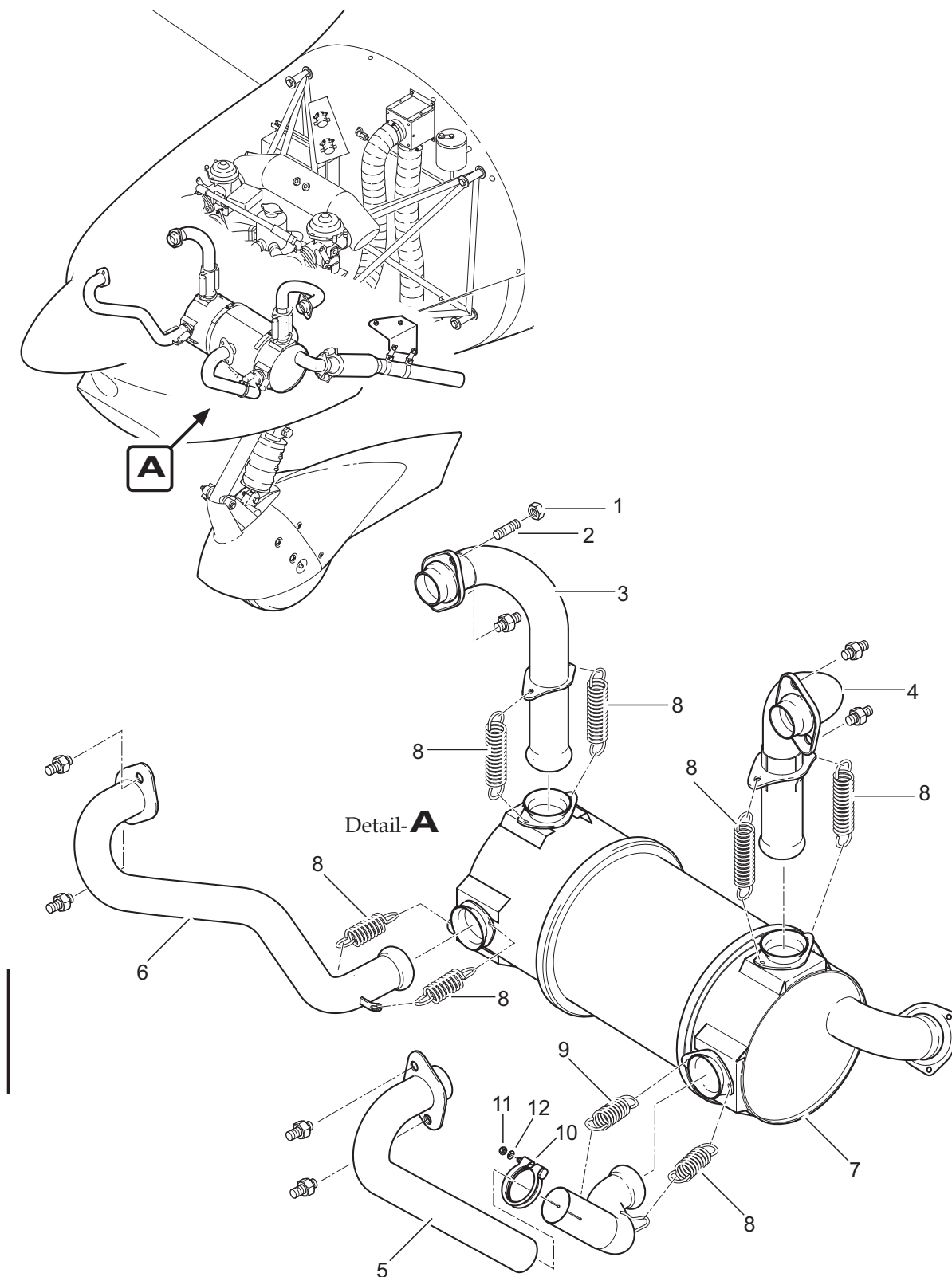
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Exhaust - General
Figure 1

78-00-00

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EFFECTIVITY

Aircraft equipped
with Rotax 912S /
Rotax 912iS

Main Muffler Installation
Figure 2

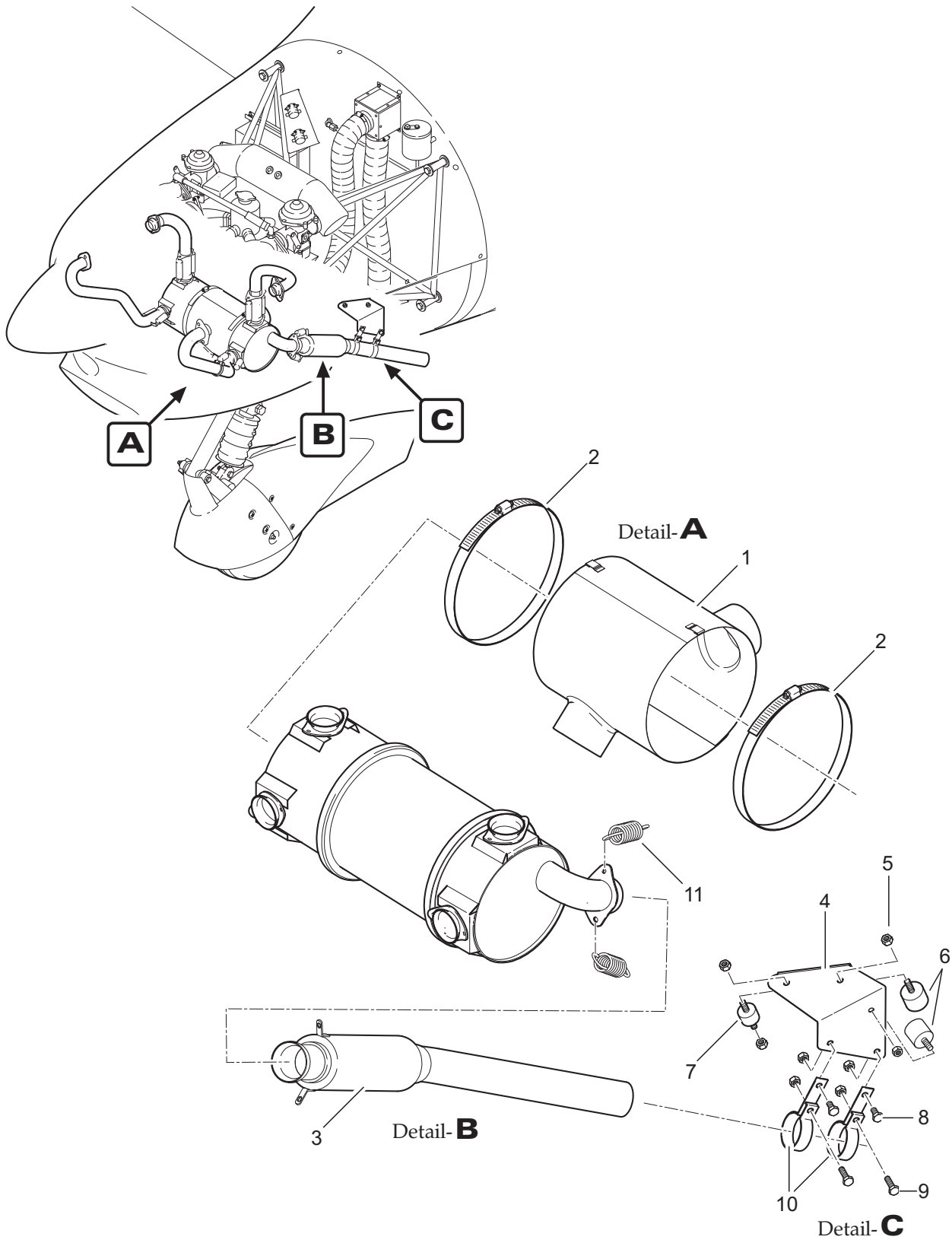
78-00-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2			Main Muffler Installation	Rotax 912S/iS
1	8	AT01-7070-103	locknut (M8)	
2	8	AT01-7080-378	stud (M8x23/20)	
3	1	AT01-7070-040	exhaust manifold RH rear	Rotax 912S
		AT01-7070-027	exhaust manifold RH rear (with EGT sensor socket)	Rotax 912iS
4	1	AT01-7070-007	exhaust manifold LH rear	Rotax 912S
		AT01-7070-028	exhaust manifold LH rear (with EGT sensor socket)	Rotax 912iS
5	1	AT01-7070-008	exhaust manifold LH front	Rotax 912S
		AT01-7070-026	exhaust manifold LH front (with EGT sensor socket)	Rotax 912iS
6	1	AT01-7070-009	exhaust manifold RH front	Rotax 912S
		AT01-7070-025	exhaust manifold RH front (with EGT sensor socket)	Rotax 912iS
7	1	AT01-7070-099	exhaust muffler (new version / replaces AT01-7070-100)	401 - 999 / 1)
		AT01-7070-100	exhaust muffler (old version / replaced by AT01-7070-099)	101 - 400 / 1)
8	7	AT01-7070-102	spring long	
9	1	AT01-7070-101	spring short	
10	1	AT01-7070-122	pipe clamp	
11	1	1800980_M08_10	locknut (ISO 7042 M8; part of item 10)	
12	1	1800125_8,4	washer (ISO 7089 8,4x16; part of item 10)	

1) An optimized muffler / tail pipe version has been developed to reduce the exhaust backpressure.
The old muffler is no longer available. Refer to SB-AT01-041 for retrofitting the new muffler / tail pipe.



EFFECTIVITY

Aircraft equipped
with Rotax 912S
101 - 400

Heat Exchanger / Rear Muffler Installation
Figure 3A

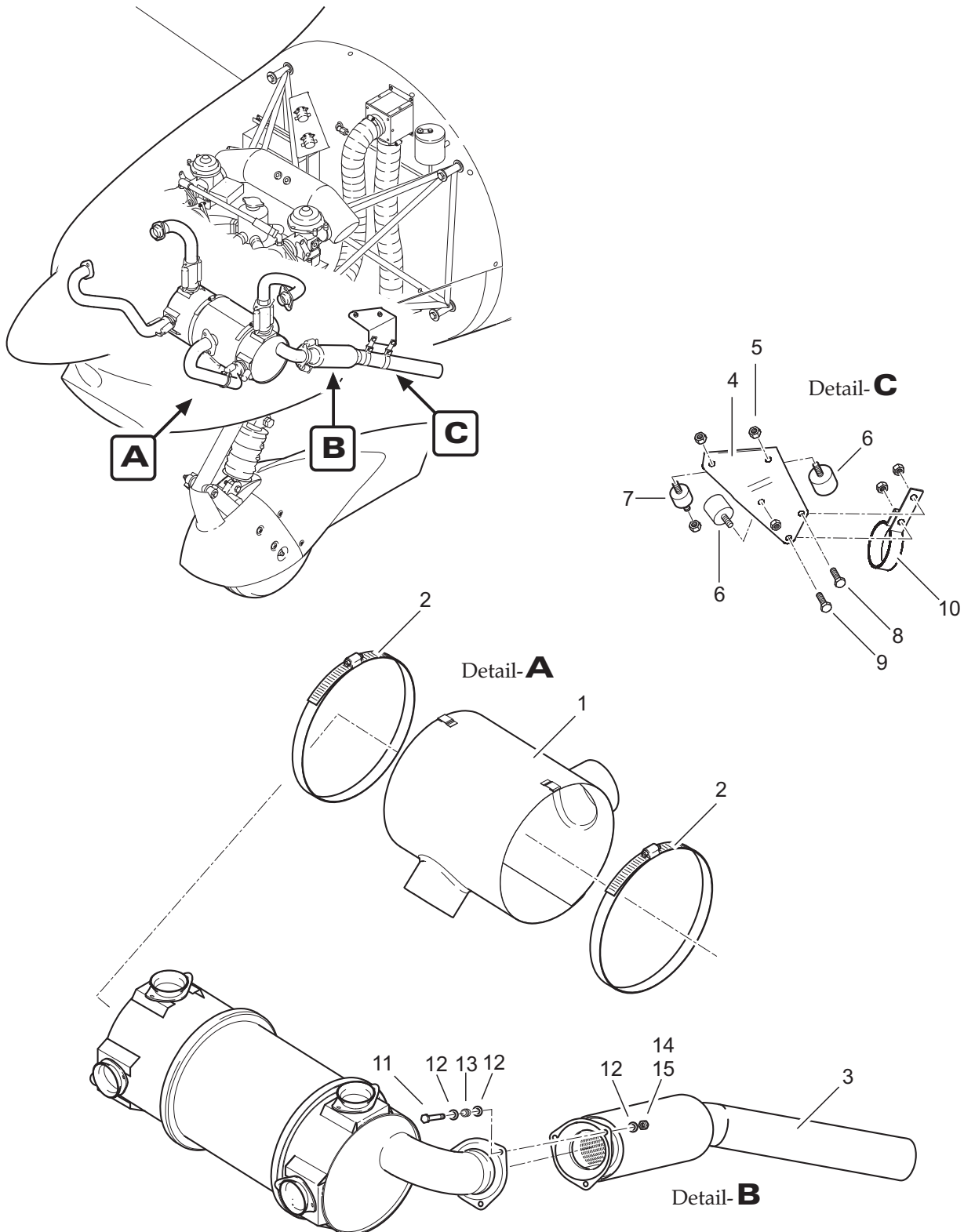
78-00-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3A			Heat Exchanger / Rear Muffler Installation	Rotax 912S 101 - 400 / 1)
1	1	AT01-7000-105	heat shroud	
2	2	AT01-4520-498	clamp (150-170mm)	
3	1	AT01-7070-003	rear muffler	
4	1	AT01-7070-105	tail pipe mounting plate	
5	8	1800980_M6_10	locknut (ISO 7042 M6)	
6	2	AT01-7070-151	rubber buffer type D	
7	1	AT01-7070-150	rubber buffer type A	
8	2	1800933_M6x12	bolt (ISO 4017 M6x12 8.8)	
9	2	1800933_M6x20	bolt (ISO 4017 M6x20 8.8)	
10	2	AT01-7070-006	clamp	
11	2	AT01-7070-101	spring short	

1) An optimized muffler / tail pipe version has been developed to reduce the exhaust backpressure.
The old muffler is no longer available. Refer to SB-AT01-041 for retrofitting the new muffler / tail pipe.



EFFECTIVITY

Aircraft equipped
with Rotax 912S/iS
401 - 999

Heat Exchanger / Rear Muffler Installation
Figure 3B

78-00-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3B			Heat Exchanger / Rear Muffler Installation	Rotax 912S/iS 401 - 999 / 1)
1	1	AT01-7000-105	heat shroud	
2	2	AT01-4520-498	clamp (150-170mm)	
3	1	AT01-7070-019	rear muffler	
4	1	AT01-7070-115	tail pipe mounting plate	
5	6	1800980_M6_10	locknut (ISO 7042 M6)	
6	2	AT01-7070-151	rubber buffer type D	
7	1	AT01-7070-150	rubber buffer type A	
8	1	1800933_M6x12	bolt (ISO 4017 M6x12 8.8)	
9	1	1800933_M6x20	bolt (ISO 4017 M6x20 8.8)	
10	1	AT01-7070-146	clamp (Ø 44mm)	
11	3	AT01-1840-124	bolt (AN3C14)	
12	9	AT01-1840-118	washer (NAS1149C0363R)	
13	3	AT01-7070-148	spring	
14	3	AT01-1840-125	castle nut (AN310-3)	
15	3	AT01-1840-126	cotter pin (MS24665-151)	
-16	1	AT01-4520-600	air hose (red / Ø 63mm / approx. 100mm)	Rotax 912iS
-17	1	AT01-4520_TO50-70/9C7W2	clamp (attachment of air hose to heat shroud)	Rotax 912iS

1) An optimized muffler / tail pipe version has been developed to reduce the exhaust backpressure.
The old muffler is no longer available. Refer to SB-AT01-041 for retrofitting the new muffler / tail pipe.

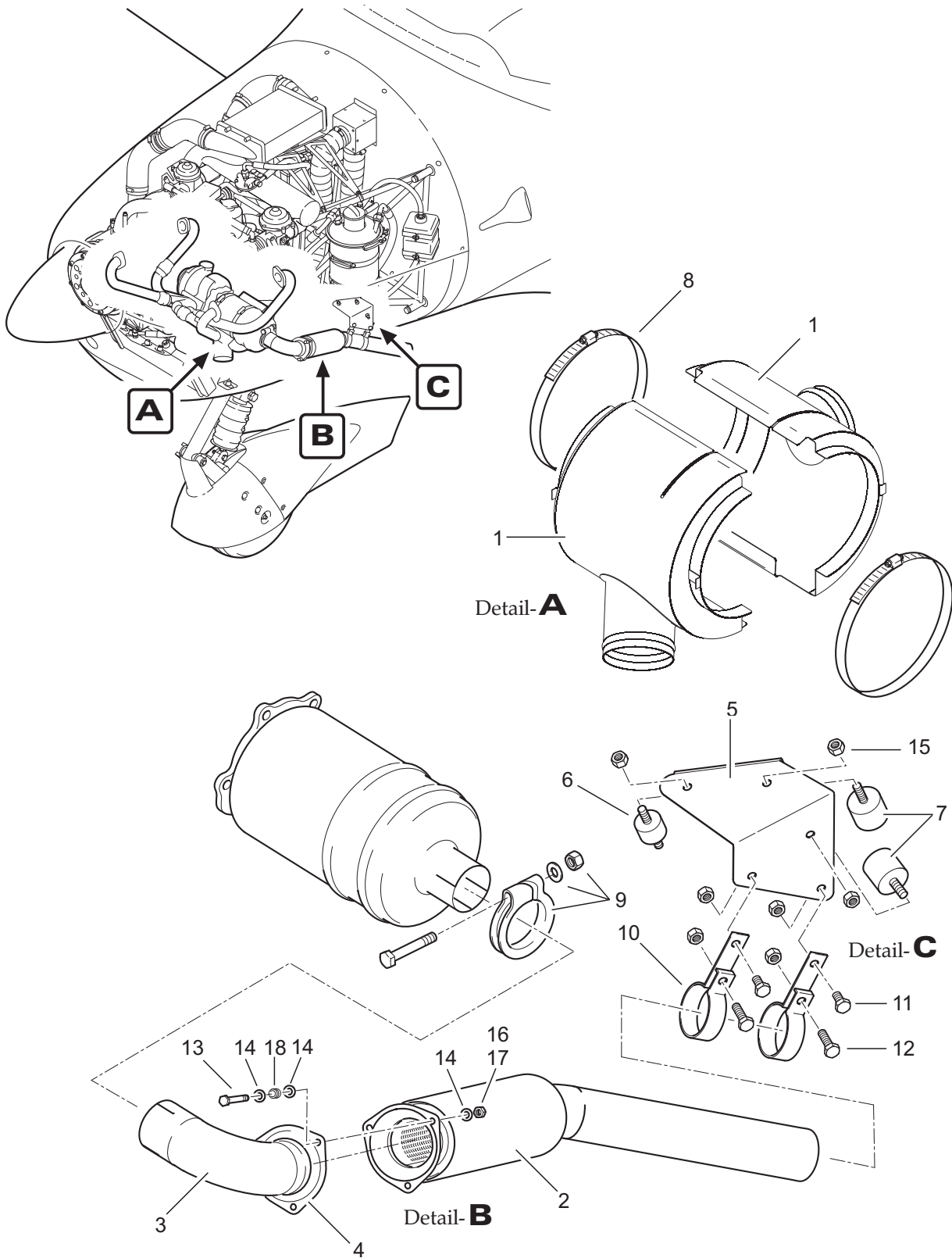
- Item not illustrated

Heat Exchanger / Rear Muffler Installation
Figure 3B

78-00-00

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EFFECTIVITY

Aircraft equipped
with Rotax 914F

Heat Exchanger / Rear Muffler Installation
Figure 3C

78-00-00

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3C			Heat Exchanger / Rear Muffler Installation	Rotax 914F
1	1	AT01-7000-029	heat shroud (new version / replaces AT01-7000-030)	394 - 999 / 1)
		AT01-7000-030	heat shroud (old version / replaced by AT01-7000-029)	367 - 393 / 1)
2	1	AT01-7070-019	rear muffler	
3	1	AT01-7070-021	exhaust bend	
4	1	AT01-7070-145	mounting ring	
5	1	AT01-7070-105	tail pipe mounting plate	
6	1	AT01-7070-150	rubber buffer type A	
7	2	AT01-7070-151	rubber buffer type D	
8	2	AT01-4520-482	clamp (89-140mm / included in heat shroud)	
9	1	AT01-7070-147	clamp (43-46mm)	
	1	1800125_8,4	washer (ISO 7089 8,4x16)	
	1	1800980_M08_10	locknut (ISO 7042 M8)	
10	2	AT01-7070-146	clamp (Ø 44mm)	
11	2	1800933_M6x12	bolt (ISO 4017 M6x12 8.8)	
12	2	1800933_M6x20	bolt (ISO 4017 M6x20 8.8)	
13	3	AT01-1840-124	bolt (AN3C14)	
14	9	AT01-1840-118	washer (NAS1149C0363R)	
15	8	1800980_M6_10	locknut (ISO 7042 M6)	
16	3	AT01-1840-125	castle nut (AN310-3)	
17	3	AT01-1840-126	cotter pin (MS24665-151)	
18	3	AT01-7070-148	spring	
-19	1	AT01-4520-600	air hose (red / Ø 63mm / approx. 100mm)	
-20	1	AT01-4520_TO50-70/9C7W2	clamp (attachment of air hose to heat shroud)	

1) An optimized heat shroud has been developed to improve cabin heating.

The old heat shroud is no longer available. Refer to SB-AT01-043 for retrofitting the new heat shroud.



AQUILA AT01

ILLUSTRATED PARTS CATALOG

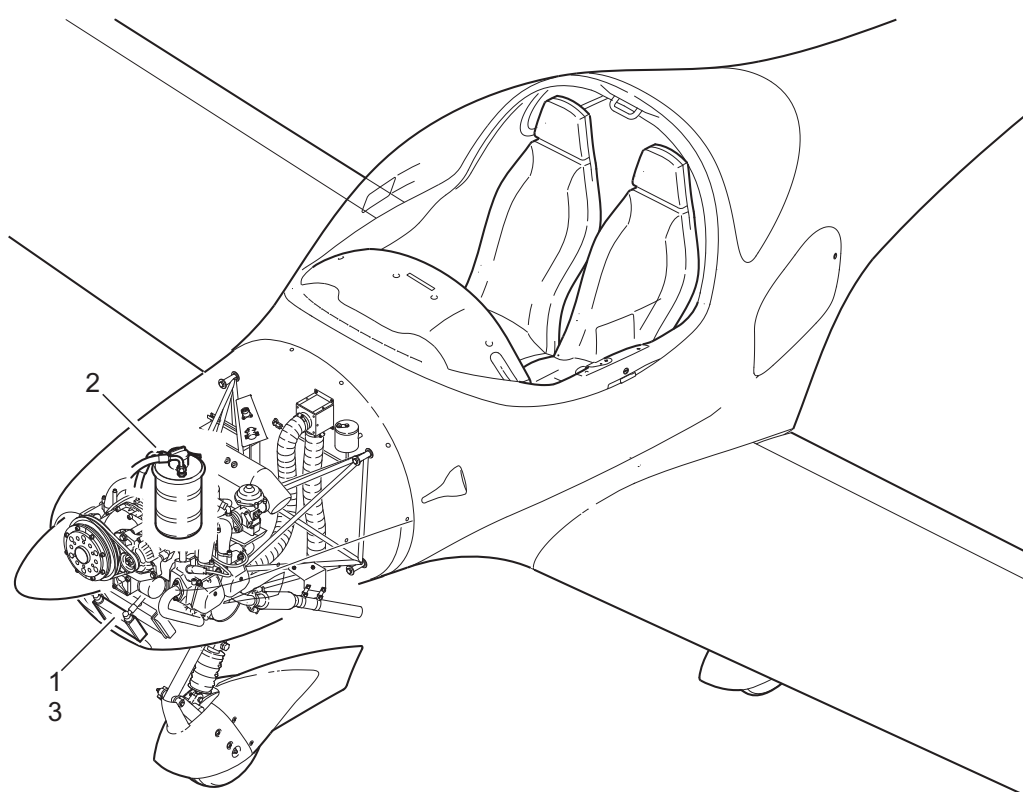
CHAPTER 79

OIL

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OIL
GENERAL



Oil - General
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Oil - General	
-1			Oil System (refer to 79-00-00, figure 2A for details)	Rotax 912S 101 - 299
1			Oil System (refer to 79-00-00, figure 2B for details)	Rotax 912S 300 - 999
-1			Oil System (refer to 79-00-00, figure 2C for details)	Rotax 914F 367 - 393
-1			Oil System (refer to 79-00-00, figure 2D for details)	Rotax 914F 394 - 999
-1			Oil System (refer to 79-00-00, figure 2E for details)	Rotax 912iS
2			Oil Tank Assembly (refer to 79-00-00, figure 3 for details)	
3			Oil Filter / Oil Indicating System (refer to 79-00-00, figure 4 for details)	
-4			Oil Pressure Indicating System (refer to 79-00-00, figure 5 for details)	MVP-50

- Item not illustrated

Oil - General
Figure 1

79-00-00

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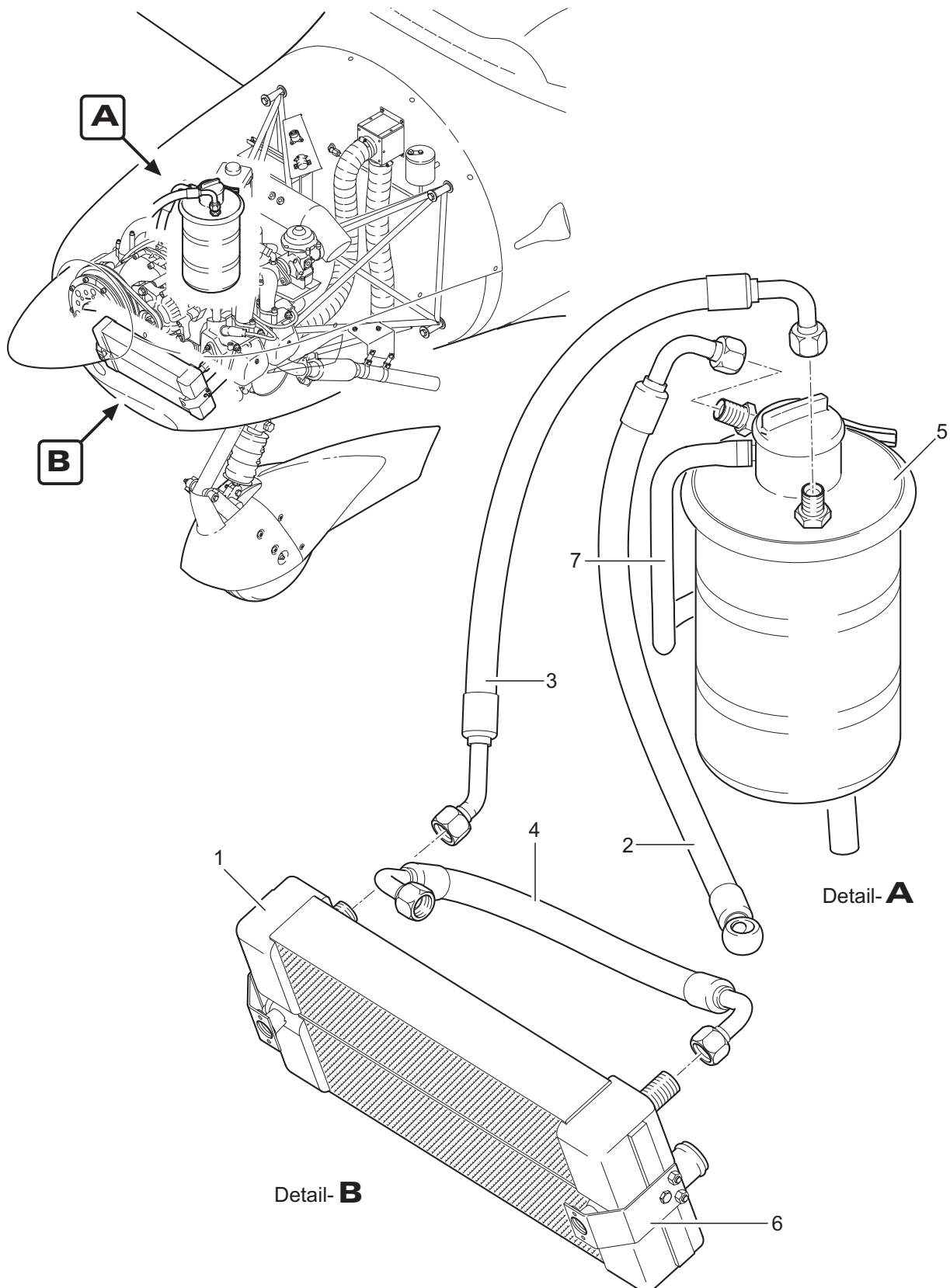


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2A			Oil System	Rotax 912S 101 - 299 / 1)
1	1	AT01-7050-300	oil and water cooler	
2	1	AT01-7000-018	oil hose engine / oil tank	
3	1	AT01-7000-021	oil hose oil tank / oil cooler	
4	1	AT01-7000-022	oil hose oil cooler / engine	
5	1	AT01-7000-040	oil tank assembly (new version, Rotax P/N: 656865)	
		AT01-7000-039	oil tank assembly (old version, Rotax P/N: 956503)	
6	2	AT01-7050-102	cooler bracket	
7	0,75m	AT01-4520-427	venting hose oil tank	

1) A new cooling system has been developed due to new operating limitations and a change of coolant with new Rotax cylinder heads. Refer to SB-AT01-029 for retrofitting the new cooling system.

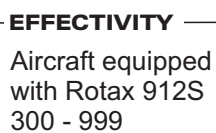


Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2B			Oil System	Rotax 912S 300 - 999 / 1)
1	1	AT01-7000-040	oil tank assembly (new metric version, Rotax P/N: 656865)	300 - 337
		AT01-7000-039	oil tank assembly (old metric version, Rotax P/N: 956503)	300 - 337
		AT01-7000-050	oil tank assembly (UNF version, Rotax P/N: 656860)	338 - 999
2	1	AT01-7050-304	oil cooler	300 - 332 / 2)
		AT01-7050-307	oil cooler (new version)	333 - 999 / 2)
3	1	AT01-7000-018	oil hose engine / oil tank (metric version)	300 - 337
		AT01-7000-043	oil hose engine / oil tank (UNF version)	338 - 999
4	1	AT01-7000-028	oil hose oil tank / oil cooler (metric version)	300 - 337
		AT01-7000-041	oil hose oil tank / oil cooler (UNF version)	338 - 999
5	1	AT01-7000-027	oil hose oil cooler / engine	
6	0,75m	AT01-4520-427	venting hose oil tank	
7	0,30m	AT01-7070-110	heat protection hose	
8	1	AT01-4530-280	spiral hose (for 200mm oil hose)	
9	1	AT01-7050-125	cooler mounting bracket	300 - 332 / 2)
		AT01-7050-149	cooler mounting bracket (new oil cooler)	333 - 999 / 2)
10	2	AT01-7050-126	banjo bolt	
11	2	1807603A_16x22	copper sealing (DIN 7603 A 16x22)	
12	2	1807603A_14x22	copper sealing (DIN 7603 A 14x22)	
13	2	AT01-7050-128	nut	
14	2	1800125_23	washer (ISO 7089 23x39)	
15	2	AT01-1840-582	Benloc receptacle	
16	4	1807337_3,2x6 ES/ES	rivet (ISO 15984 3,2x6 A2/A2)	
17	2	AT01-7050-144	spacer sleeve (new oil cooler)	333 - 999 / 2)
18	1	AT01-4520-162	elbow fitting	338 - 999
-19	1	AT01-7050-013	winterization kit ("Remove if OAT > 10°C")	
		AT01-7050-014	winterization kit ("Remove if OAT > 5°C" / optional for lower OAT)	

1) Refer to SB-AT01-029 for retrofitting the new cooling system.

2) Oil cooler AT01-7050-304 is no longer available and replaced by AT01-7050-307.

New oil cooler requires a modified mounting bracket and additional spacer sleeves.

Refer to SI-AT01-018 (annex 18) and Rotax SI-912-024 for further information.

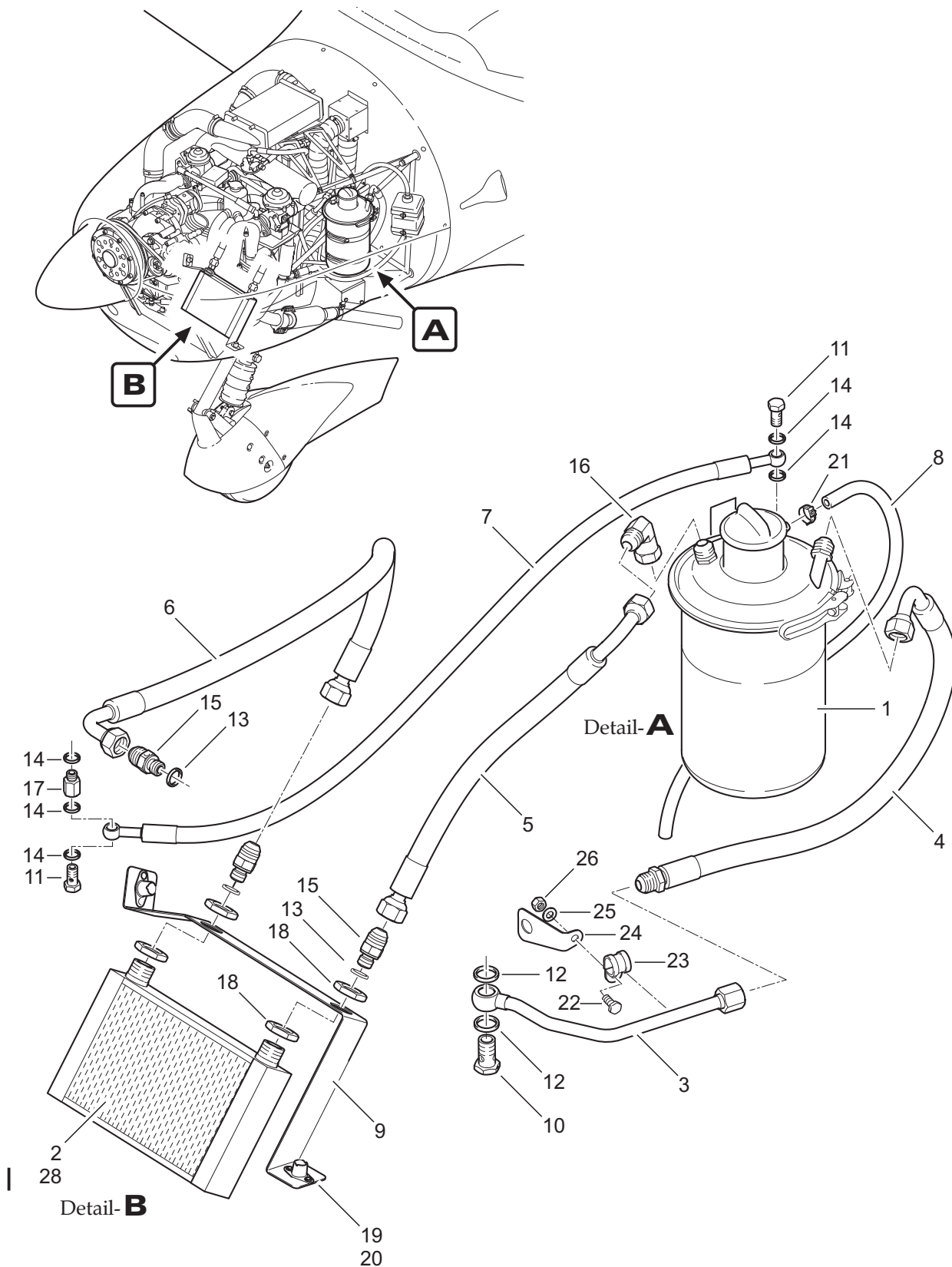
- Item not illustrated

Oil System
Figure 2B

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EFFECTIVITY

Aircraft equipped
with Rotax 914F
367 - 393

Oil System
Figure 2C

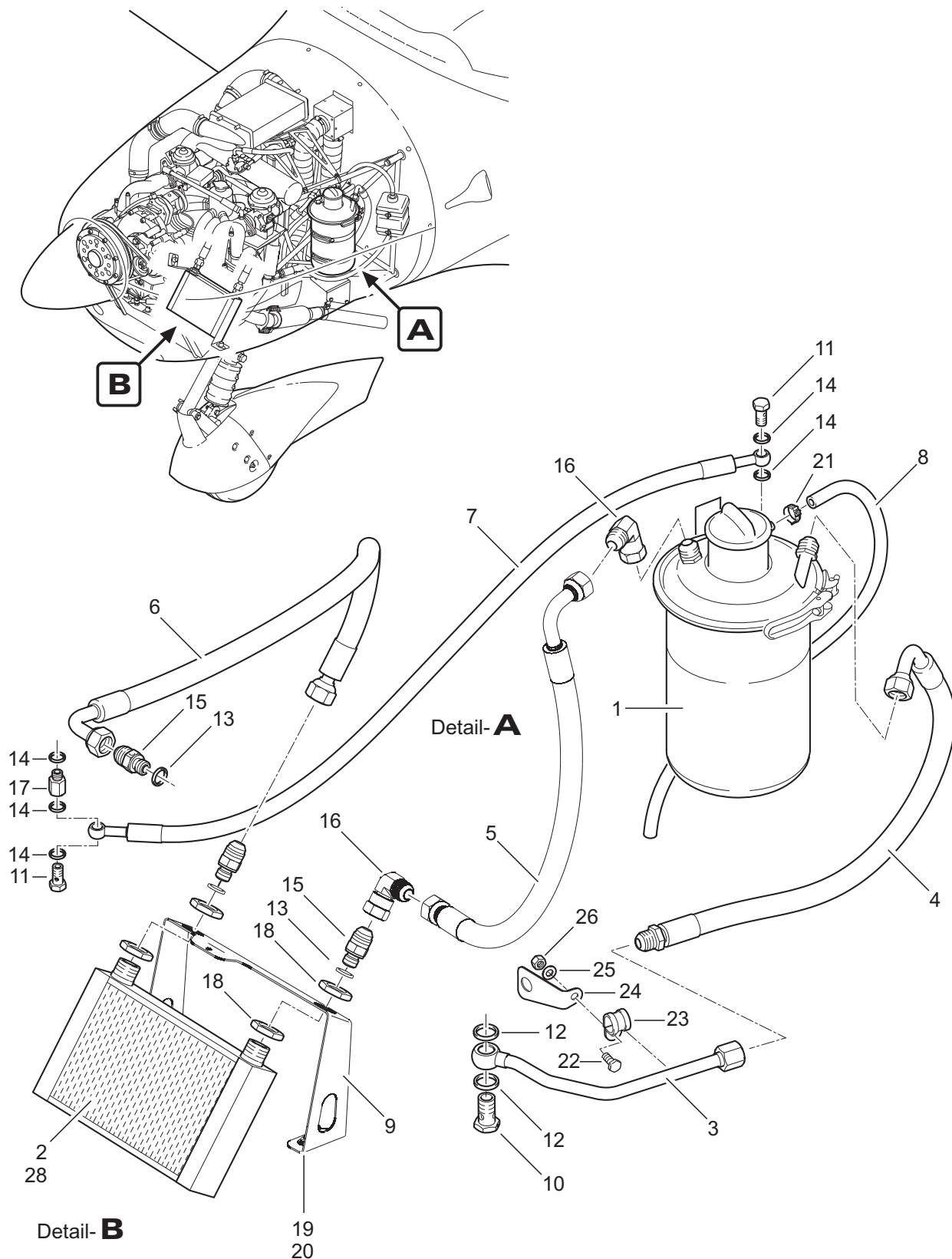
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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2C			Oil System	Rotax 914F 367 - 393 / 1)
1	1	AT01-7000-050	oil tank assembly (UNF version, Rotax P/N: 656860)	
2	1	AT01-7050-307	oil cooler (new version)	
3	1	AT01-7000-032	oil return line	
4	1	AT01-7000-033	oil hose engine / oil tank	
5	1	AT01-7000-034	oil hose oil tank / oil cooler	
6	1	AT01-7000-035	oil hose oil cooler / engine	
7	1	AT01-7000-036	oil hose turbo charger / oil tank	
8	0,75m	AT01-4520-427	venting hose oil tank	
9	1	AT01-7050-151	cooler mounting bracket	
10	1	AT01-7080-164	banjo bolt (M16x1,5x28)	
11	2	AT01-7080-157	banjo bolt (M10x1x19)	
12	2	AT01-7080-162	sealing washer (16x22)	
13	3	AT01-7080-161	sealing washer (14x18)	
14	5	AT01-7080-160	sealing washer (10x14)	
15	3	AT01-7080-163	adapter (M14x1,5 / 3/4"-16UNF)	
16	1	AT01-4520-162	elbow fitting	
17	1	AT01-7050-193	spacer	
18	4	AT01-7050-128	nut (M22x1,5)	
19	2	AT01-1840-582	Benloc receptacle	
20	4	1807337_3,2x6 ES/ES	rivet (ISO 15984 3,2x6 A2/A2)	
21	1	AT01-4520_COBRA_13,0/8W4	Cobra hose clamp	
22	1	1800933_M5x12	bolt (ISO 4017 M5x12 8.8)	
23	1	AT01-4520_RSGU1.12/12W1	pipe clamp	
24	1	AT01-7050-194	mounting bracket	
25	1	1800125_5,3	washer (ISO 7089 5,3x10)	
26	1	1800985_M5	locknut (ISO 10511 M5)	
-27	AR	AT01-4530-280	spiral hose	
-28	0,20m	AT01-1900-103	foam tape (self adhesive, glued to bottom of cooler)	
-29	1	AT01-7050-015	winterization kit Rotax 914	

1) An new oil cooling system / cowling has been developed to be compatible with the additional oil sump on the turbocharger. Refer to SB-AT01-043 for retrofitting the new oil system.



EFFECTIVITY

Aircraft equipped
with Rotax 914F
394 - 999

Oil System
Figure 2D

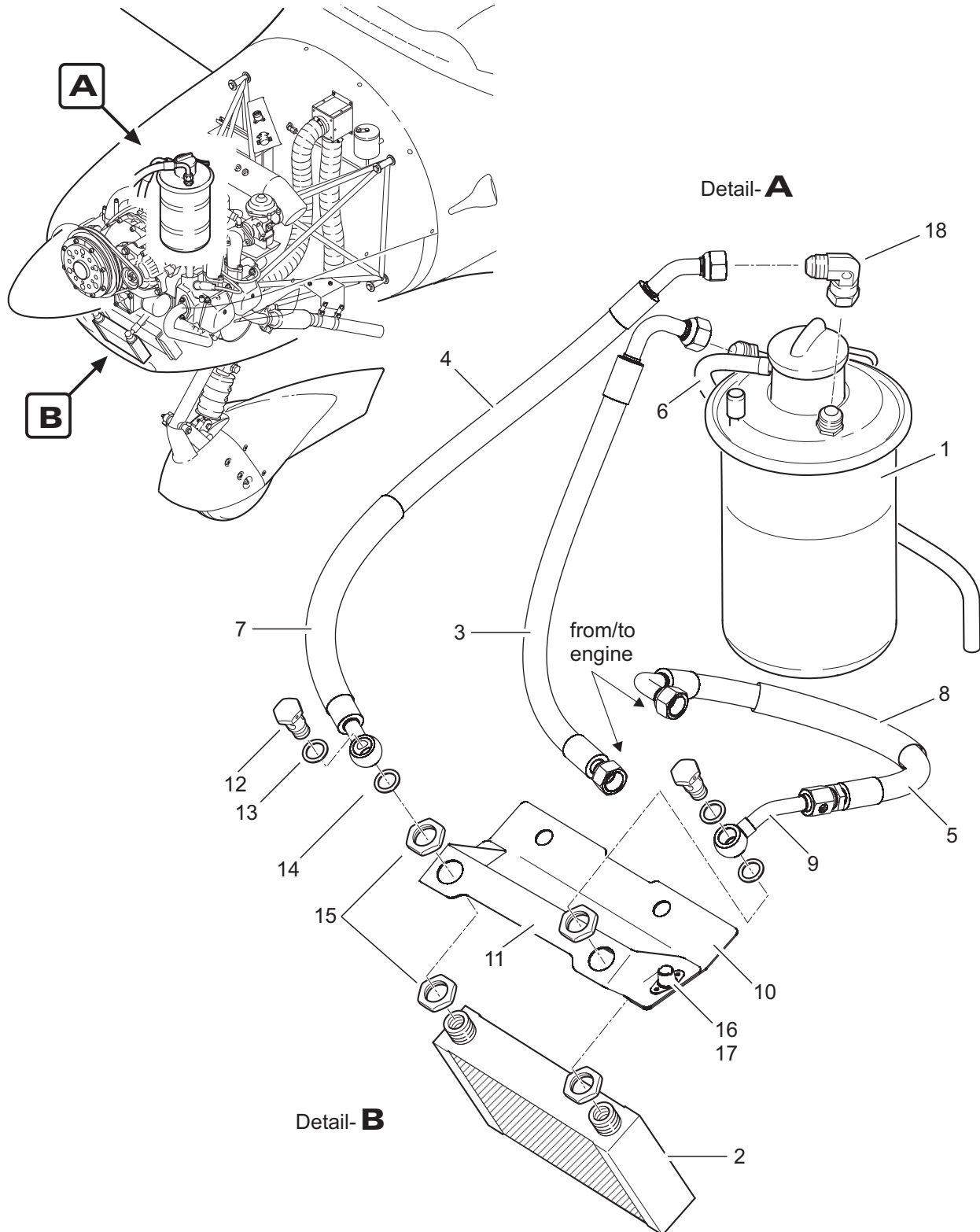
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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2D			Oil System	Rotax 914F 394 - 999 / 1)
1	1	AT01-7000-050	oil tank assembly (UNF version, Rotax P/N: 656860)	
2	1	AT01-7050-307	oil cooler (new version)	
3	1	AT01-7000-048	oil return line	
4	1	AT01-7000-033	oil hose engine / oil tank	
5	1	AT01-7000-034	oil hose oil tank / oil cooler	
6	1	AT01-7000-035	oil hose oil cooler / engine	
7	1	AT01-7000-036	oil hose turbo charger / oil tank	
8	0,75m	AT01-4520-427	venting hose oil tank	
9	1	AT01-7050-155	cooler mounting bracket	
10	1	AT01-7080-164	banjo bolt (M16x1,5x28)	
11	2	AT01-7080-157	banjo bolt (M10x1x19)	
12	2	AT01-7080-162	sealing washer (16x22)	
13	3	AT01-7080-161	sealing washer (14x18)	
14	5	AT01-7080-160	sealing washer (10x14)	
15	3	AT01-7080-163	adapter (M14x1,5 / 3/4"-16UNF)	
16	2	AT01-4520-162	elbow fitting	
17	1	AT01-7050-193	spacer	
18	4	AT01-7050-128	nut (M22x1,5)	
19	2	AT01-1840-582	Benloc receptacle	
20	4	1807337_3,2x6 ES/ES	rivet (ISO 15984 3,2x6 A2/A2)	
21	1	AT01-4520_COBRA_13,0/8W4	Cobra hose clamp	
22	1	1800933_M5x12	bolt (ISO 4017 M5x12 8.8)	
23	1	AT01-4520_RSGU1.12/12W1	pipe clamp	
24	1	AT01-7050-194	mounting bracket	
25	1	1800125_5,3	washer (ISO 7089 5,3x10)	
26	1	1800985_M5	locknut (ISO 10511 M5)	
-27	AR	AT01-4530-280	spiral hose	
-28	0,20m	AT01-1900-103	foam tape (self adhesive, glued to bottom of cooler)	
-29	1	AT01-7050-015	winterization kit Rotax 914	

1) Refer to SB-AT01-043 for retrofitting the new oil system.



EFFECTIVITY

Aircraft equipped
with Rotax 912iS

Oil System
Figure 2E

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
2E			Oil System	Rotax 912iS
1	1	AT01-7000-050	oil tank assembly (Rotax 656860)	
2	1	AT01-7050-307	oil cooler (Rotax 886005)	
3	1	AT01-7000-044	oil hose engine / oil tank	
4	1	AT01-7000-041	oil hose oil tank / oil cooler	
5	1	AT01-7000-042	oil hose oil cooler / engine	
6	0,75m	AT01-4520-427	venting hose oil tank	
7	0,30m	AT01-7070-110	heat protection hose	
8	1	AT01-4530-280	spiral hose (for 200mm oil hose)	
9	1	AT01-7000-057	oil line	
10	1	AT01-7050-156	mounting bracket water cooler	
11	1	AT01-7050-157	mounting bracket oil cooler	
12	2	AT01-7050-126	banjo bolt	
13	2	1807603A_16x22	copper sealing (DIN 7603 A 16x22)	
14	2	1807603A_14x22	copper sealing (DIN 7603 A 14x22)	
15	4	AT01-7050-128	nut	
16	2	AT01-1840-582	Benloc receptacle	
17	4	1807337_3,2x8 ES/ES	rivet (ISO 15984 3,2x8 A2/A2)	
18	1	AT01-4520-162	elbow fitting	

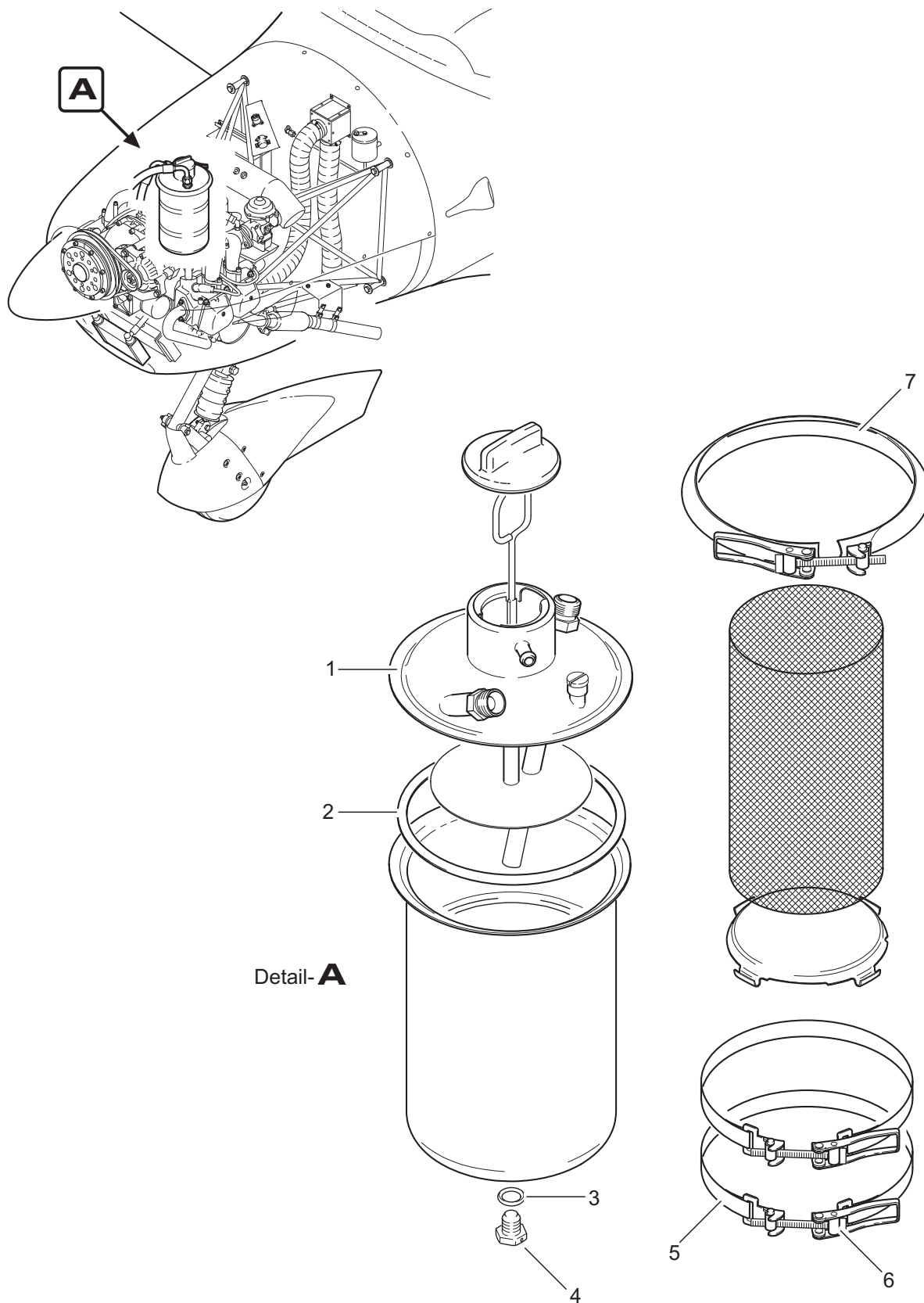
- Item not illustrated

Oil System
Figure 2E

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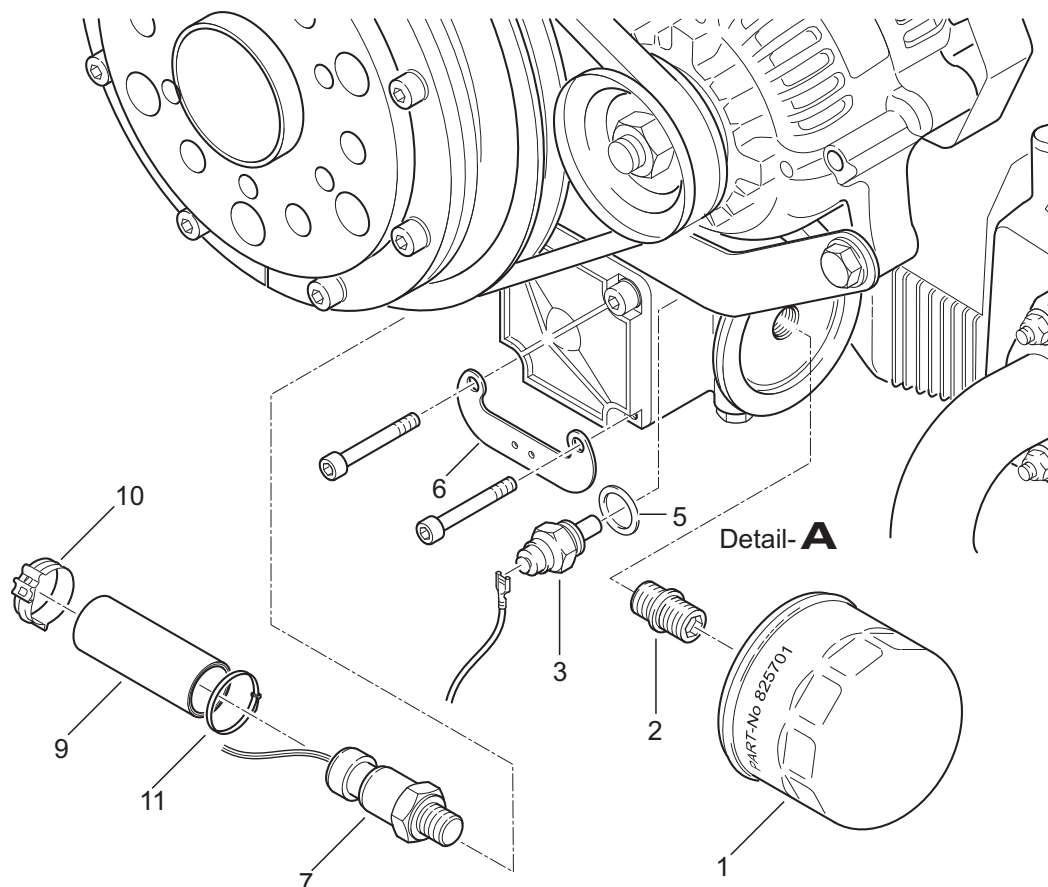
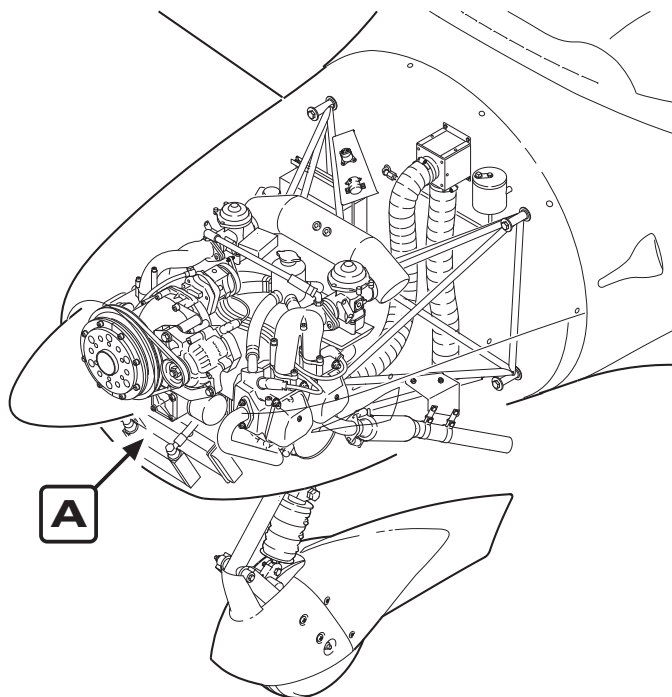
31.05.24



Oil Tank Assembly
Figure 3

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
3			Oil Tank Assembly	
1	1	AT01-7000-141 ¹⁾	oil tank cover (new version, oil tank AT01-7000-040 only)	101 - 337
		AT01-7000-142 ¹⁾	oil tank cover (old version, oil tank AT01-7000-039 only)	101 - 337
		AT01-7000-151 ¹⁾	oil tank cover (UNF version, oil tank AT01-7000-050 only)	338 - 999
2	1	AT01-7080-217	O-ring	
3	1	AT01-7080-216	copper sealing	
4	1	Ro 241403	bolt	
5	2	AT01-1840-700	Normafix steel tape (16mm)	
6	2	AT01-1840-710	Normafix closure	
7	1	Ro 951817	profile clamp	

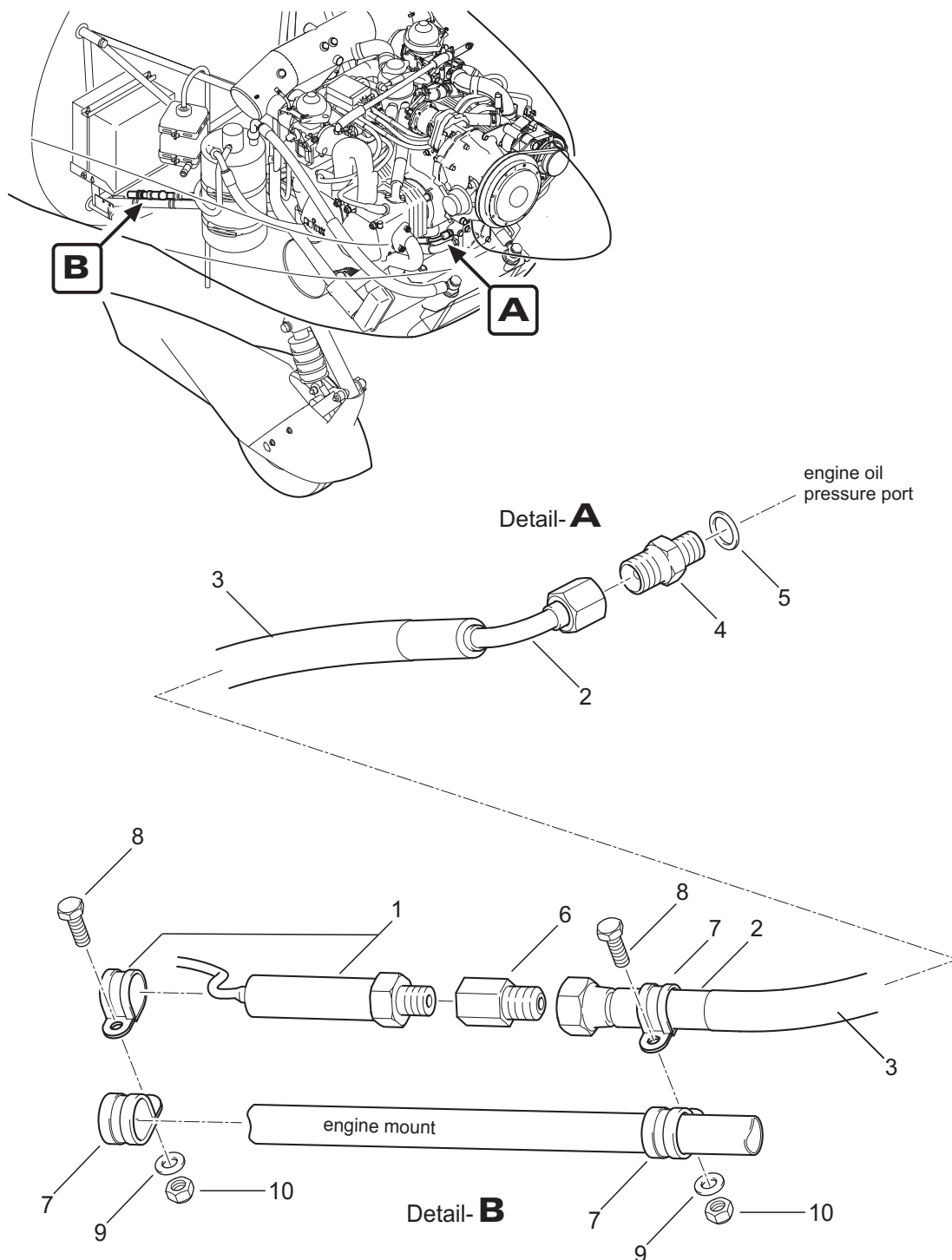
¹⁾ Only repaired covers available in exchange for a damaged cover.



Oil Filter / Oil Indicating System
Figure 4

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
4			Oil Filter / Oil Indicating System	
1	1	AT01-7080-011	oil filter (Rotax 825016)	
2	1	Ro 924424	oil filter nipple	
3	1	AT01-7050-150	oil temperature sensor Rotax 912S/914F	Analog / G3X
		AT01-2840-217	oil temperature sensor	MVP-50
-4	1	Ro 965537	oil temperature sensor Rotax 912iS	Rotax 912iS
5	1	1807603A_10x13,5x1_Al	sealing washer (aluminium / DIN 7603 A 10x13,5x1)	MVP-50
6	1	AT01-7030-105	mounting plate for oil temperature sensor connector	MVP-50
7	1	AT01-7080-200	oil pressure sensor (Rotax 956357 / no longer available)	101-223 / 1)
		AT01-2840-168	oil pressure sensor (Rotax 956413 / no longer available)	224-253 / 1)
		AT01-7080-201	oil pressure sensor Rotax 912S/914F (Rotax 456180)	Analog / G3X
-8	1	AT01-2840-245	oil pressure sensor Rotax 912iS (Rotax 664365)	Rotax 912iS
9	1	AT01-4520-309	fire sleeve (60mm)	1)
10	1	AT01-4520_COBRA_13,0/8W4	Cobra hose clamp	1)
11	1	AT01-4530-941	cable tie (heat resistant / 100x2,5mm)	1)

1) Refer to SI-AT01-016 for further information.



EFFECTIVITY

Aircraft equipped
with MVP-50 engine
monitoring system

Oil Pressure Indicating System
Figure 5

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
5			Oil Pressure Indicating System	MVP-50
1	1	AT01-2840-207	oil pressure transducer PT-100GA	
2	1	AT01-7030-003	oil hose engine / pressure transducer	
3	1	AT01-4520-309	fire sleeve (500mm)	
4	1	AT01-7030-210	restricting orifice	
5	1	1807603A_10x13,5x1_Al	sealing washer (aluminium / DIN 7603 A 10x13,5x1)	
6	1	AT01-4520-311	adapter (7/16"UNF / 1/8"NPT)	
7	3	AT01-4520_RSGU1.16/12W1	pipe clamp	
8	2	1800933_M5x14	bolt (ISO 4017 M5x14 8.8)	
9	2	1800125_5,3	washer (ISO 7089 5,3x10)	
10	2	1800985_M5	locknut (ISO 10511 M5)	

- Item not illustrated

Oil Pressure Indicating System
Figure 5

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AQUILA AT01
ILLUSTRATED PARTS CATALOG

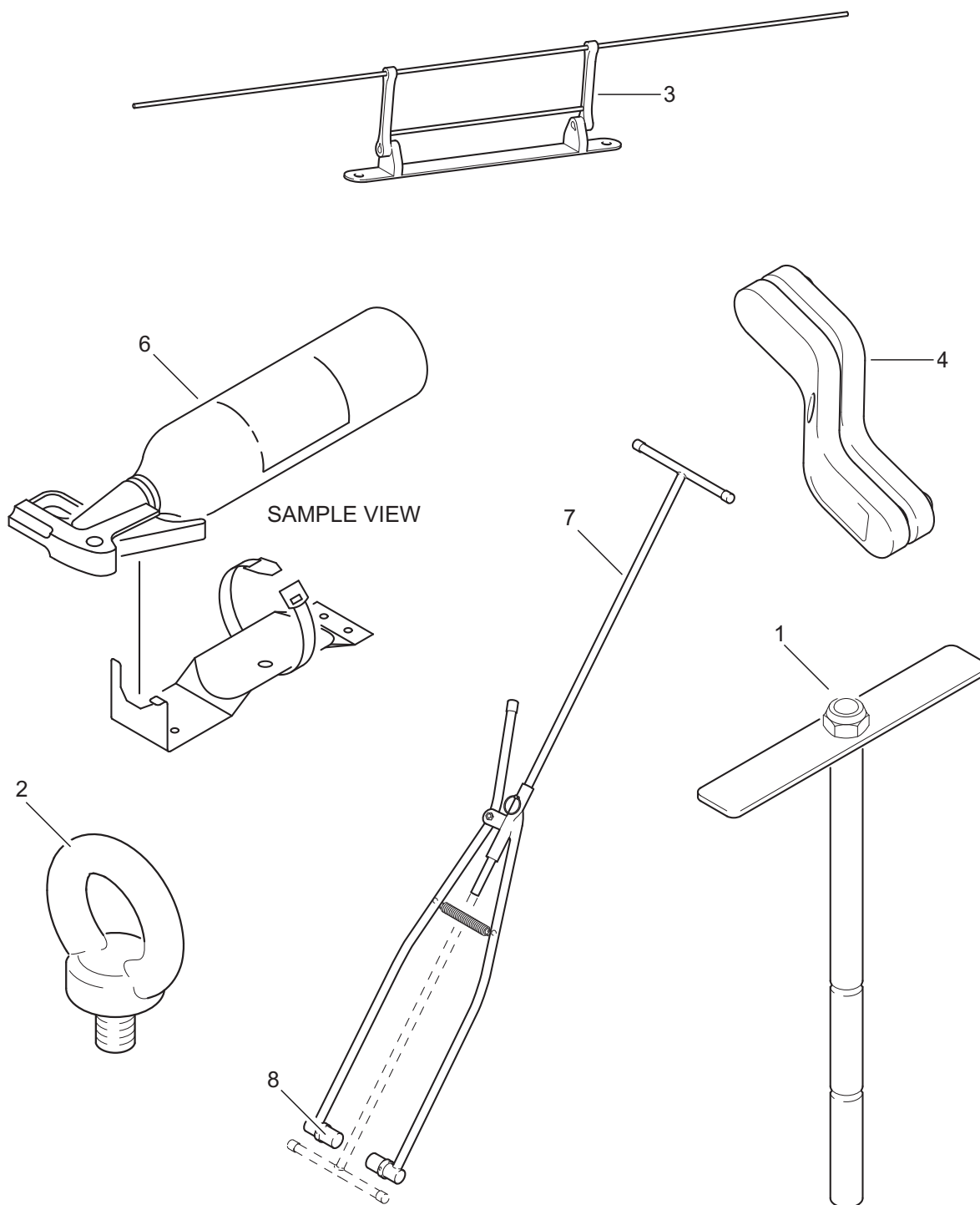
CHAPTER 96

ACCESSORY

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**ACCESSORY
GENERAL**



NOTE: ACCESSORIES NOT IN SCALE!

Aquila Accessory and Parts
Figure 1

Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Aquila Accessory and Parts	
1	1	AT01-8030-005	fuel dipstick (54,8 l usable fuel per tank)	109,6 l usable
		AT01-8030-020	fuel dipstick (48,5 l usable fuel per tank)	97,0 l usable
2	1	1800580_M8	lash eye bolt	
3	1	AT01-2820-016-070	instrument panel sight	
4	1	AT01-7020-012	anti-theft device	
5	1	AT01-0790-001	ABUS lock for anti-theft device	
6	1	AT01-9020-105	fire extinguisher H3R A344T	
		AT01-9020-100	fire extinguisher AIRTOTAL HAL 1.0 (optional)	
7	1	AT01-7800-201	tow bar	
8	2	AT01-5100-100	tow bar bushing	
-9		AT01-2110-109	jack point adapter	
-10		AT01-9910-105	canopy cover (Jaxida)	
-11		AT01-9910-106	full cover (Jaxida)	
-12		AT01-9910-207	winglet cover	
-13		AT01-9910-201	pitot-static tube cover	
-14		AT01-7080-053	spark plug (Rotax 297656)	
-15		AT01-7080-011	oil filter	
-16		AT01-7080-216	oil tank gasket	
-17		AT01-7040-101	air filter (K&N)	
-18		AT01-1110-527	coolant (Glysantin Protect Plus/G48)	
-19		AT01-1110-526	coolant (Evans Aero Cool 180° NPG+C / 3,8 l)	
-20		AT01-1110-531	engine oil (AeroShell Oil Plus 4 Aviation Oil / 10W-40 / 1,0 l)	
-21		AT01-1520-102	engine oil (XPS Full Synthetic Aviation Oil / 5W-50 / 1,0 l)	
-22		AT01-1110-500	brake fluid (AeroShell Fluid 41)	
-23		AT01-2320-002	canopy sun protection film	
-24		AT01-2350-100	canopy care set	
-25		1070399	aircraft exterior dry wash/polish (Ardrox 6017)	
-26		1050023	PTFE thread-sealing tape (12 mm x 12 m)	
-27		1050083	medium-strength pipe sealant (50 g)	
-28		AT01-7080-035	medium-strength threadlocker (Loctite 243 / 10 ml)	
-29		AT01-7080-036	medium-strength threadlocker (Loctite 243 / 50 ml)	
-30		1060201	high-strength threadlocker (Loctite 270 / 10 ml)	
-31		AT01-7080-037	high-strength retaining compound (Loctite 648 / 10 ml)	

- Item not illustrated

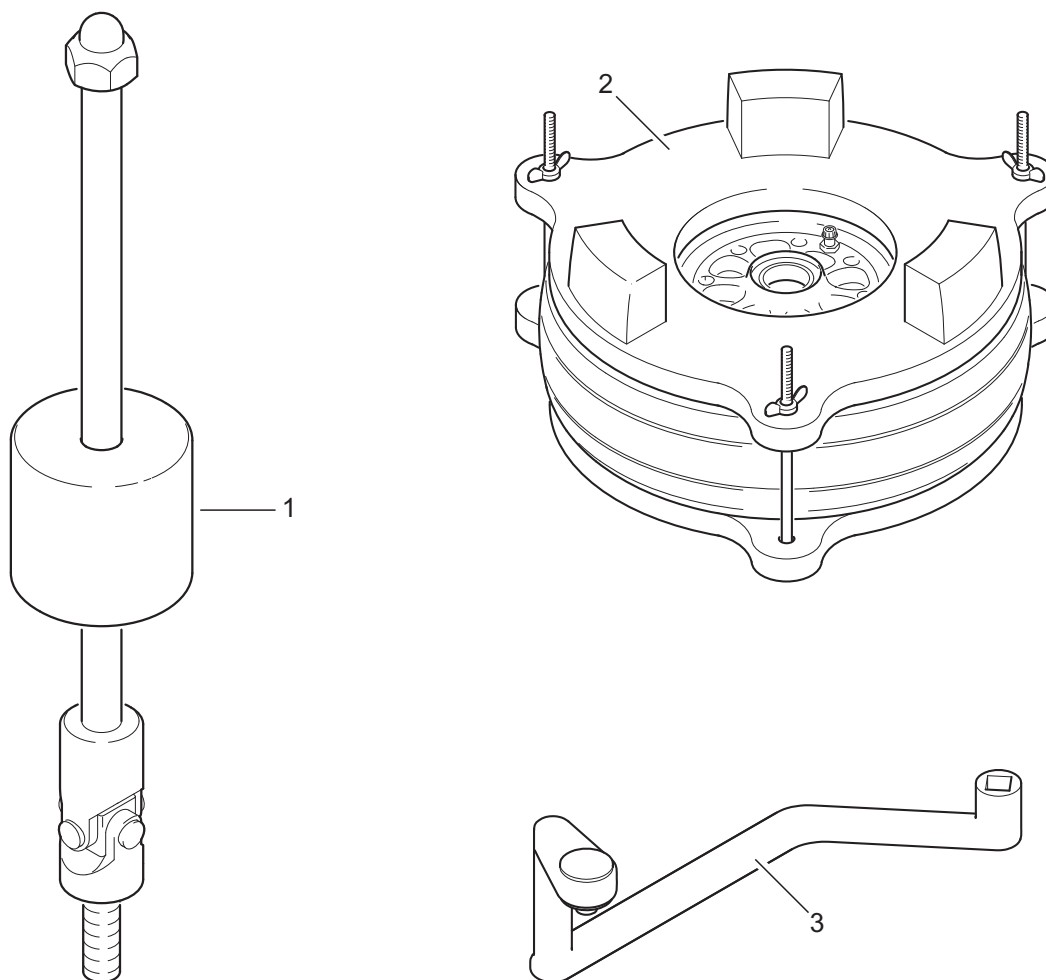
Aquila Accessory and Parts
Figure 1

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SPECIAL TOOLS



NOTE: ACCESSORIES NOT IN SCALE!

Special Tools for Maintenance/Repair
 Figure 1

96-10-00

Page 2

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Fig. Item	QTY	Part Number	Nomenclature	Effectivity
1			Special Tools for Maintenance/Repair	
	1	AT01-9620-010	wing bolt removal tool	
	2	1391108	tire change tool for Beringer wheels	Beringer
	3	AT01-1380-100	torque adapter for governor installation	Rotax 912iS

- Item not illustrated

Special Tools for Maintenance/Repair
Figure 1

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