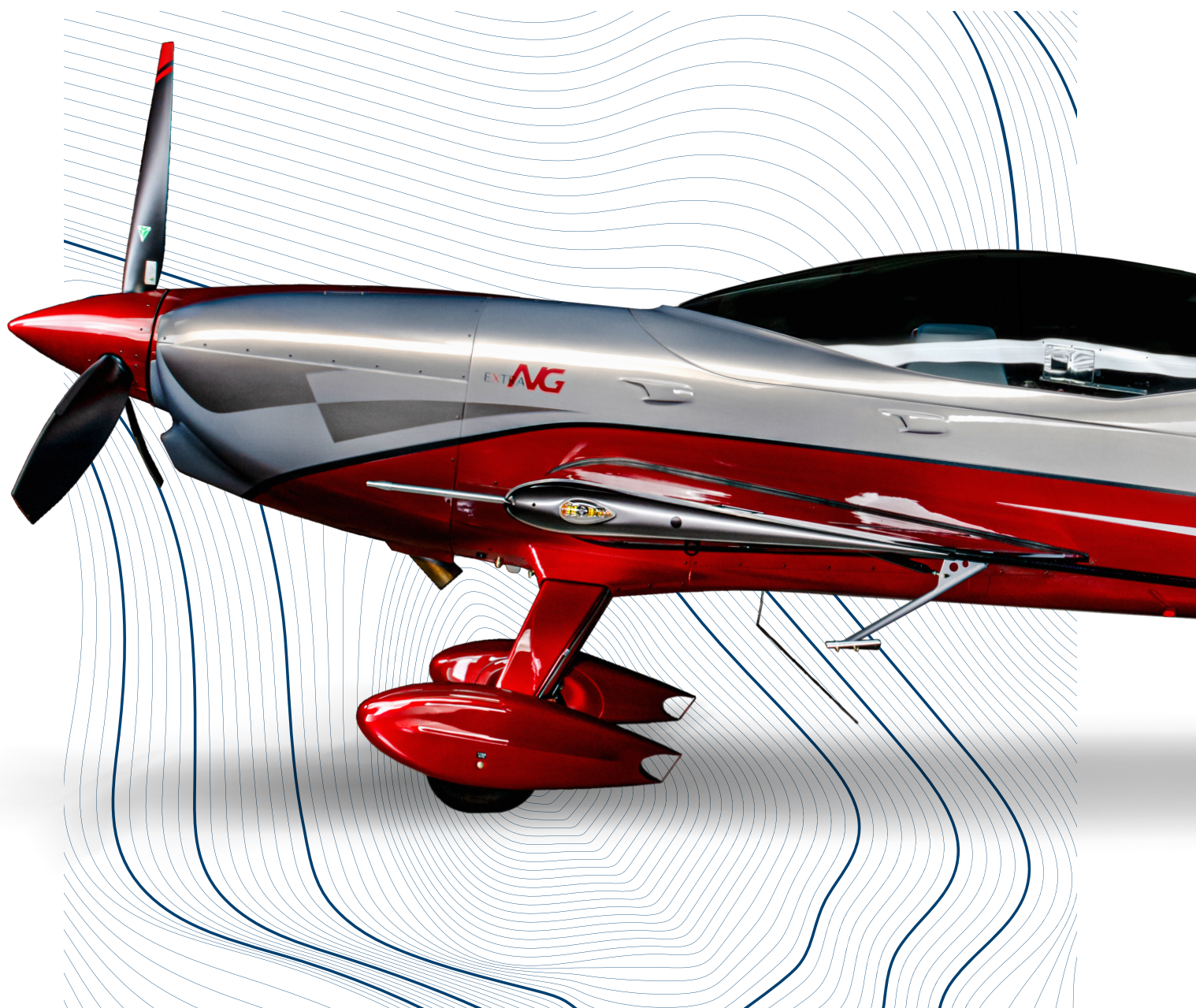


EXTRA[®] **MG**

Illustrated Parts Catalogue



EXTRA

Flugzeugproduktions- und Vertriebs- GmbH
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Illustrated Parts Catalogue

EXTRA NG

Doc. No. : EX-01703

Record of Revisions

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Log of Effective Pages

Page	Date	Page	Date
0-1	31. July 2025		
0-2 thru 0-3	17. Nov. 2025		
0-4 thru 0-7	31. July 2025		
0-8	17. Nov. 2025		
0-9 thru 21-5	31. July 2025		
21-6 thru 21-14	17. Nov. 2025		
22-1 thru 27-53	31. July 2025		
27-54 thru 27-82	17. Nov. 2025		
28-1 thru 31-11	31. July 2025		
31-12 thru 31-22	17. Nov. 2025		
32-1 thru 32-3	31. July 2025		
32-4 thru 32-16	17. Nov. 2025		
33-1 thru 34-9	31. July 2025		
34-10 thru 34-16	17. Nov. 2025		
51-1 thru 51-9	31. July 2025		
51-10 thru 51-12	17. Nov. 2025		
53-1 thru 87-10	31. July 2025		

Table of Contents

11	Placards and Markings	11-1
21	Air Conditioning	21-1
22	Auto Flight	22-1
23	Communications	23-1
24	Electrical System	24-1
25	Equipment and Furnishings	25-1
27	Flight Controls	27-1
28	Fuel	28-1
31	Indicating/ Recording Systems	31-1
32	Landing Gear	32-1
33	Lights	33-1
34	Navigation	34-1
51	Standard Practices and Structures - General	51-1
53	Fuselage	53-1
55	Stabilizers	55-1
57	Wing	57-1
61	Propeller	61-1
71	Power Plant	71-1
72	Engine	72-1
73	Engine Fuel and Control	73-1
77	Engine Indicating	77-1
78	Exhaust	78-1
79	Oil	79-1
87	Smoke	87-1

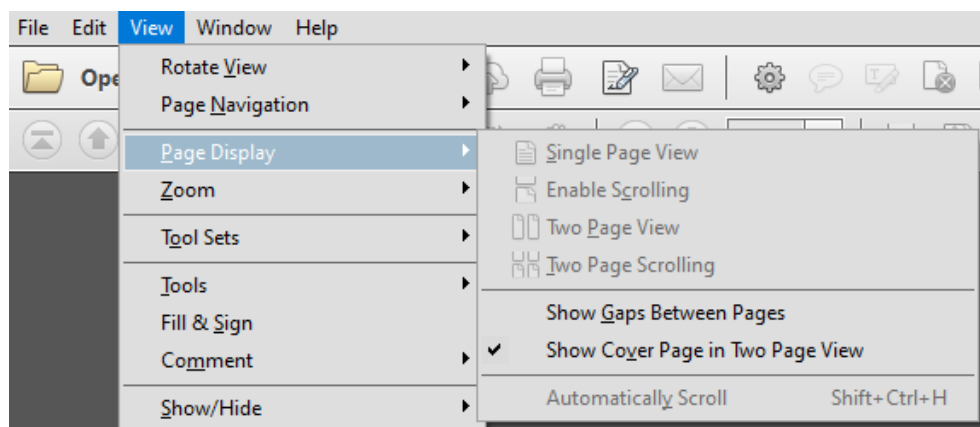
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Explanations to the EXTRA NG Illustrated Parts Catalogue

Concerning the chapter set-up and the structure of parts lists this Parts Catalogue has been prepared referring to the recommendations of the ATA 100 Specification.
So the respective system chapter can be selected from the table of contents to find the desired part.

Correct display:

For correct display, the document must be opened in “Adobe Acrobat” and set to “Two Page View” and “Show Cover Page in Two Page View”.



Line Spacing:

Independent parts, assemblies or groups of parts are generally divided by a larger line spacing.

Partnumber	Nomenclature	UpA
81620.01	Baffle Plate FWD LH CHS	1
26383	. Nutplate Rivet 4/32" x 3/16" Uni	4
81621.06	. Aluminum Flange for 3" Ducting	1
81620.05	. CHS Inlet Mesh 3"	1
35568	Heating Shroud NG	1
81620.12	Air Duct Exhaust – Inlet Box	1
	<i>Attaching Parts</i>	
01526	Hose Clamp NORMA 50-70 mm	2

Constituent Parts:

A dot in the nomenclature column at the beginning of a part designation means that this part is a constituent part of the next higher (minus one dot) assembly.

Partnumber	Nomenclature	UpA
35000	Fuel Level Sensor	1
	<i>Attaching Parts</i>	
36092	Bolt DIN933 M5x35	5
00298	Paper washer 11x4,7x0,6	5

00869	. Fitting, flared to NPT, 45° MS20823-8D	1
00167	. Fitting, flared to NPT, 45° MS20823-4D	1
00155	. Fitting, flared to NPT, 90° MS20822-4D	1

Attaching Parts:

Attaching Parts always refer to one single part, assembly or group of parts.

81504.11	Bracket Aresti-Cardholder	1
	<i>Attaching Parts</i>	
35410	POM Washer (black)	2
35223	Bolt 10-32 x 1/2" FT (black)	2

(Each bracket is attached by 2 washers and 2 Bolts).

Optional Parts:

Optional Parts are always marked as "(optional)".

35593	Garmin GDL 51R. PMA (optional)	1
	<i>Attaching Parts</i>	
71581.20-VM	GRP Attachment Bracket	4
NA4158	Washer AN960-6L	4
MS35206-230	Bolt MS35206-230	4

Alternative Parts:

Alternative parts are marked with an "a" in the UpA column:

31417	Oil Cooler	1
34674	Oil Cooler	a
	Oil Cooler	a

NOTE

Equipment is generally introduced with serial number NG001 or from the serial number given in the “eff” column. However, some features may also be retrofitted in aircraft with earlier serial numbers. Check the individual installation.

Abbreviations:

This catalogue uses certain abbreviations, which are listed below.

Abbreviation	Meaning
-	Not illustrated
a	Alternative
AFT	Located in the Back
CB	Circuit Breaker
eff	Effective for Serial Number NG_ _ _
FB	Panel/Plate
FWD	Forward
KBS	Set of Parts
LH	Left Hand Side
LK	Painted
LV	Prepared for Painting
PG	Package
P/N	Partnumber
RH	Right Hand Side
SZ	Kit
UpA	Units per Assembly
VB	Fitted
VF	Trimmed
VM	Pre-assembled
VS	Welded



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11

Placards and Markings

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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11-00

General

01106.01	Placards (full Set)	1
01106.01-ESP	Placards Set Español	a
01106.01-ISR	Placards Set Hebrew	a
01106.01-POR	Placards Set Portuguese	a
01106.01-CHN	Placards Set Chinese	a

(Language Sets only include required translated Placards, not the full Set)

National Emblems

01953	Germany	1
31017	Country to be specified	a

Aircraft Registration

153	Wings	1
30005	Fuselage	1

Aircraft ID-Plates

21001.11	General Aircraft ID-Plate (against return only)	1
21001.12	A/C ID Plate (80 x 10, e.g. GER)	1
21001.13	FAA TC-N° (80 x 10)	a
21001.14	A/C ID Plate FRA (100 x 50)	a
21001.15	A/C ID Plate POL (80 x 28)	a
21001.16	A/C ID Plate AUS (100 x 28)	a
21001.17	A/C ID Plate CH (100 x 30)	a

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21

Air Conditioning

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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21-40

Heating

Air Routing

2	81620.01	Baffle Plate FWD LH CHS	1	
1	26383	. Nutplate Rivet 4/32" x 3/16" Uni	4	
7	81621.06	. Aluminum Flange for 3" Ducting	1	
8	81620.05	. CHS Inlet Mesh 3"	1	
3	35568	Heating Shroud NG	1	
5	81620.12	Air Duct Exhaust – Inlet Box	1	
		<i>Attaching Parts</i>		
4	01526	Hose Clamp NORMA 50-70 mm	2	

6	81620.11	Air Duct Baffle – Exhaust	1	
		<i>Attaching Parts</i>		
4	01526	Hose Clamp NORMA 50-70 mm	2	

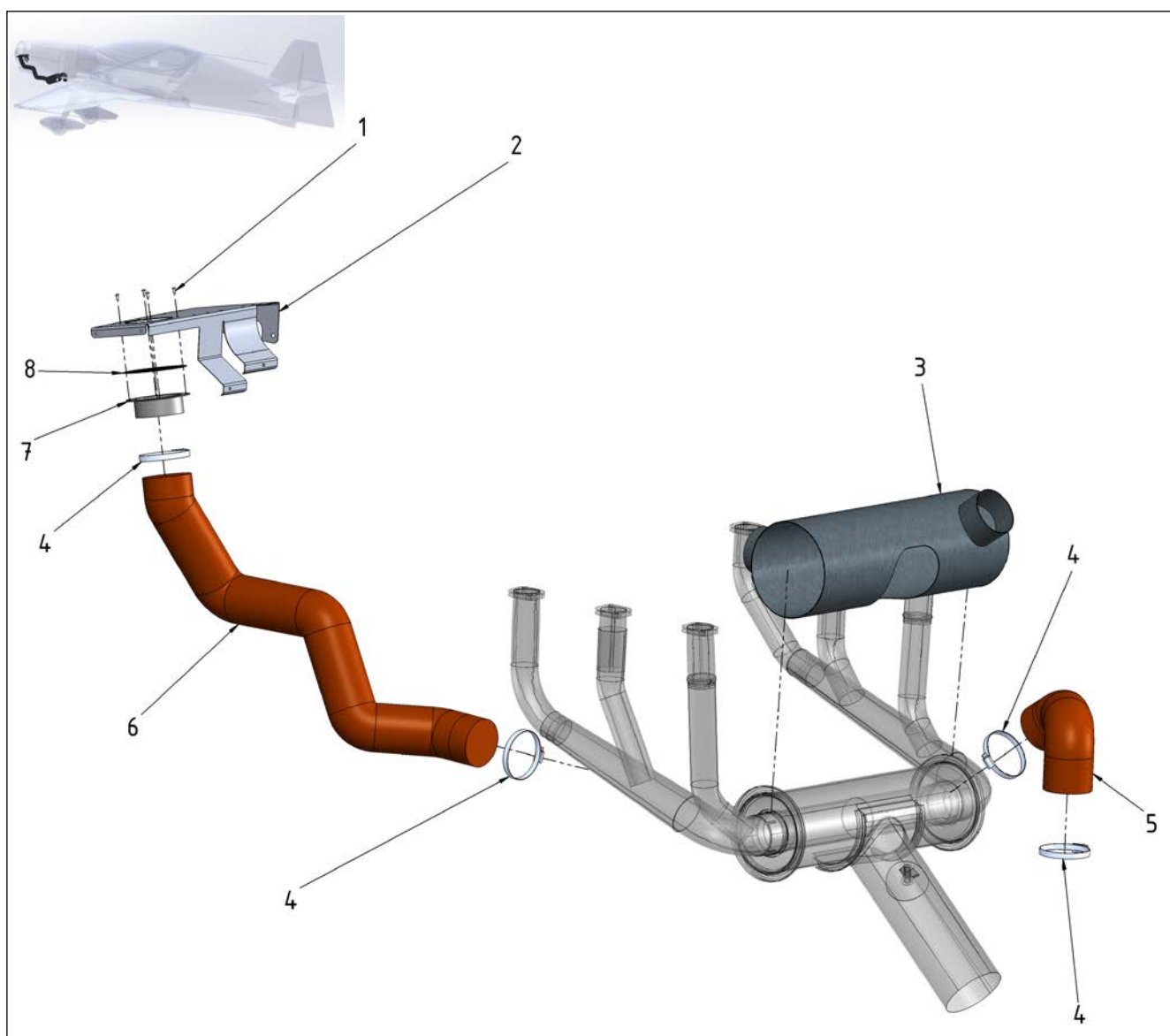


Figure 21-1 Air Routing

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Cabin Heating System

Boxes

3	81621.00	CHS Inlet Box Assembly	1	
4	81620.09	CHS Inlet Seal	1	
<i>Attaching Parts</i>				
1	35207	Bolt NAS1352C08-20	4	
2	84	Washer AN960-C8L	8	
6	309070	Nut MS21042-08	4	

5	81622.00	CHS Distribution Box Assembly	1	
<i>Attaching Parts</i>				
7	149	Washer AN960-10L	2	
8	00205	Bolt AN3-6A	2	

9	81620.20	CHS Actuator Assembly	2	

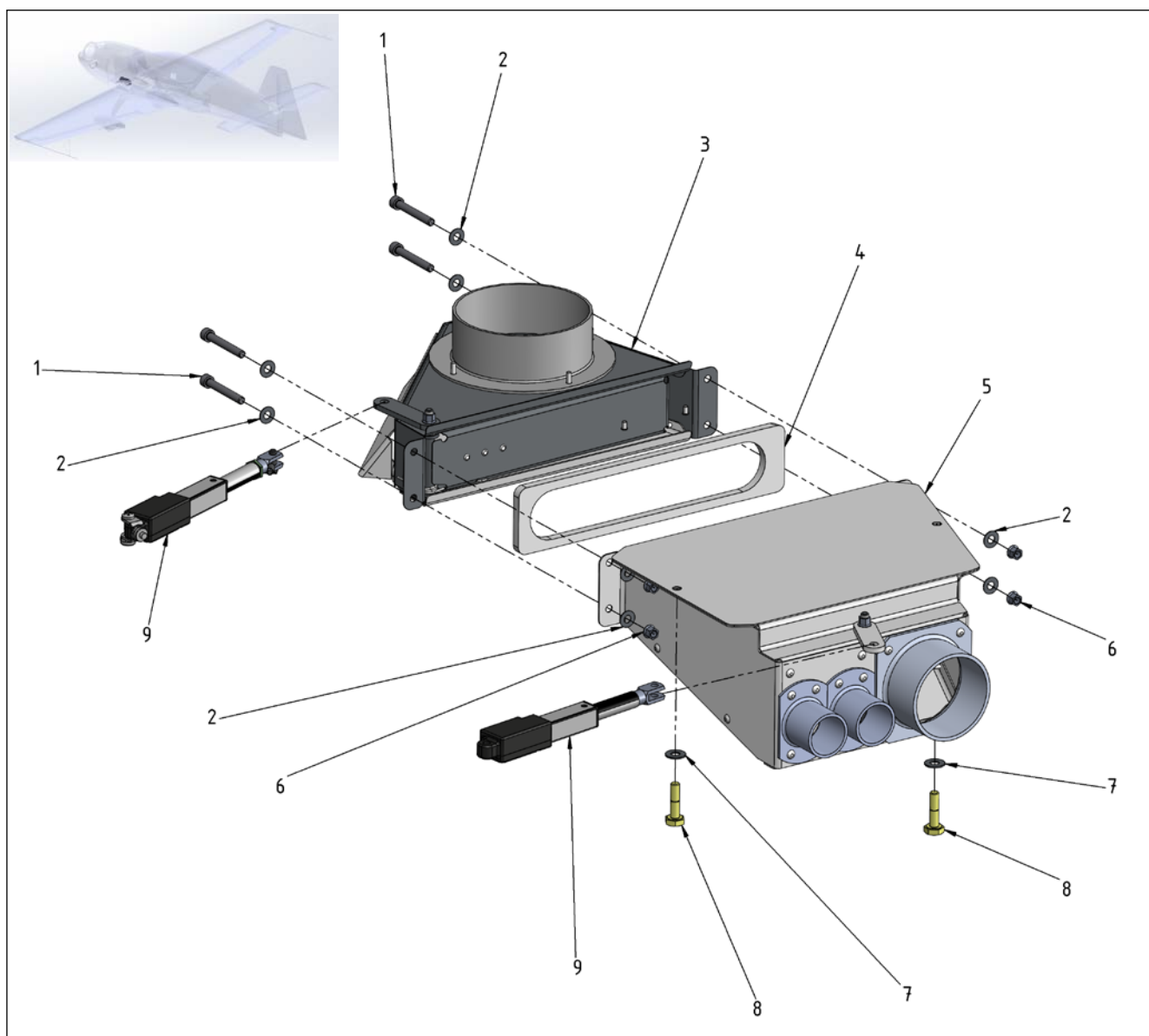


Figure 21-2 Boxes

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Cabin Ventilation System

Air Routing

2	81630.01	CHS Baffle Plate FWD RH	1	
3	81630.05	CHS Inlet Mesh 2,5"	1	
4	81630.02	Aluminum Flange for 2,5"-Duct	1	
		<i>Attaching Parts</i>		
1	36829	Flat head rivet DIN 7337 – 3.2x8.0mm ***	4	
6	81630.17	Air Duct Baffle - Reducer <i>Attaching Parts</i>	1	
5	01353	Hose Clamp 60-80 mm	2	
7	36732	Clamp MS21919-DG42 ***	1	
8	81640.11	Air Duct NACA – Blender <i>Attaching Parts</i>	1	
5	36732	Hose Clamp 60-80 mm ***	2	
9	81640.12	Air Duct Exhaust – Blender <i>Attaching Parts</i>	1	
5	36762	Hose Clamp 60-80 mm ***	2	
10	03248	Heating Shroud EA300	1	
11	81630.11	Air Duct Reducer – Exhaust <i>Attaching Parts</i>	1	
5	36732	Hose Clamp 60-80 mm ***	2	
12	36203	Reducer Ø2,5" – Ø3"	1	

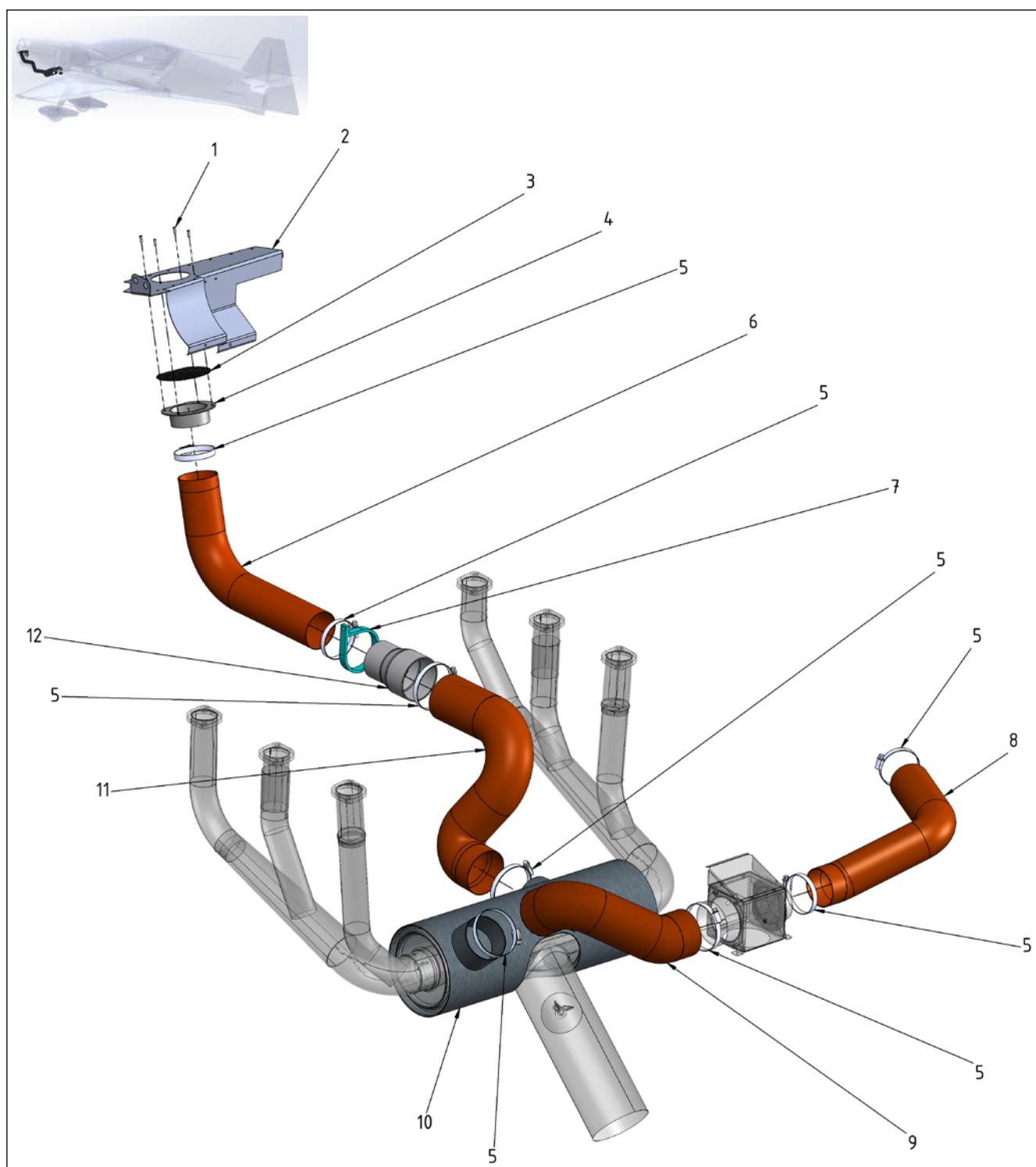


Figure 21-3 Cabin Ventilation System – Air Routing

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Boxes

1	81621.00	CHS Inlet Box Assembly	1	
2	81620.09	CHS Inlet Seal	1	
		<i>Attaching Parts</i>		
4	84	Washer AN960-C8L	8	
5	309070	Nut MS21042-08	4	
9	35207	Bolt NAS1352C08-20	4	

3	81622.00	CHS Distribution Box Assembly	1	
		<i>Attaching Parts</i>		
6	149	Washer AN960-10L	2	
7	00205	Bolt AN3-6A	2	

8	81620.20	CHS Actuator Assembly	2	

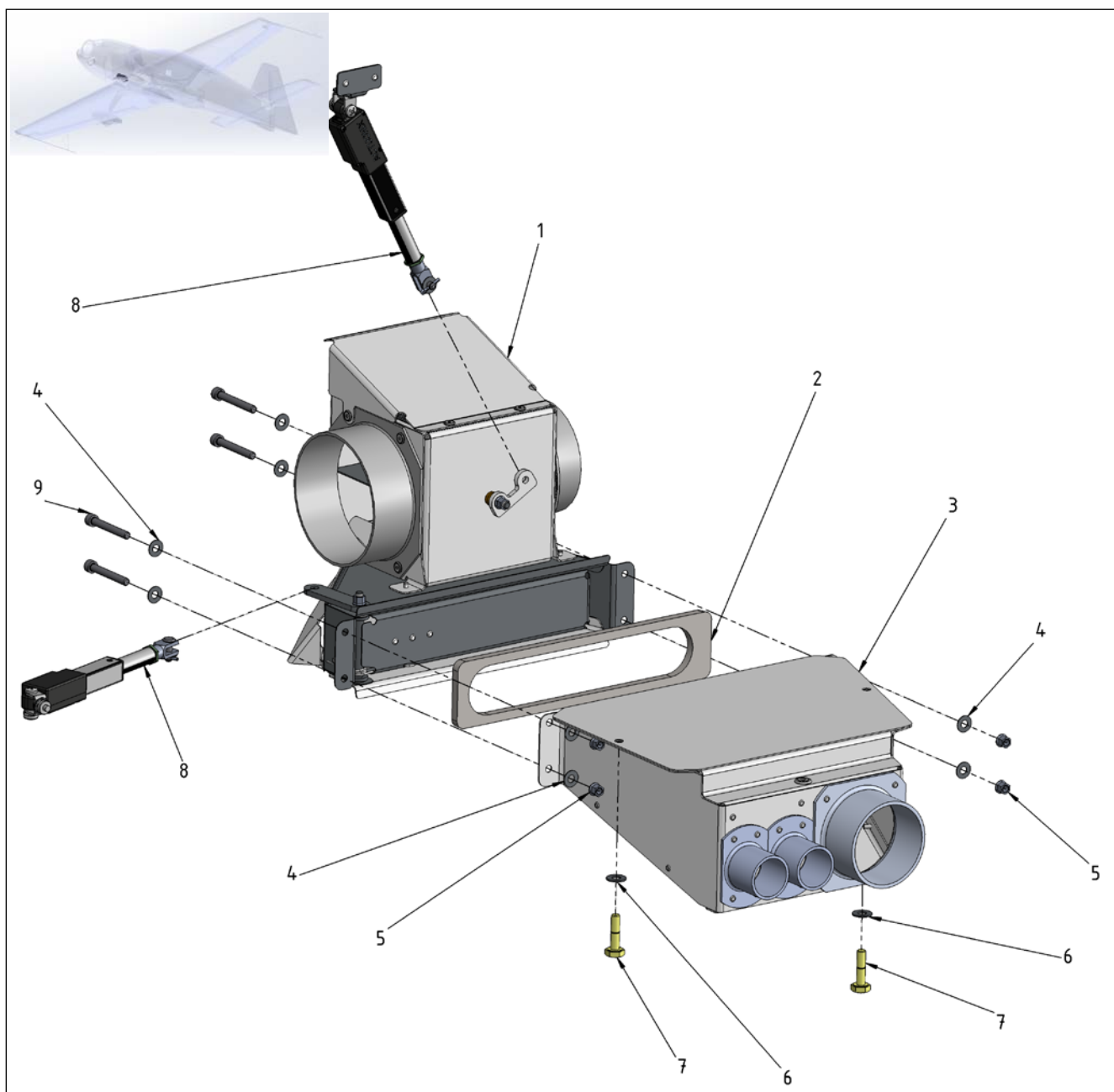


Figure 21 -4 Cabin Ventilation System - Boxes

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Hoses

1	81620.15	Air Duct Distribution Box – Tunnel	1	
		<i>Attaching Parts</i>		
8	00204	Bolt AN3-5A	4	
9	149	Washer AN960-10L	8	
13	01526	Hose Clamp NORMA 50-70 mm	2	
17	88	Nut MS21083N3	4	
18	81620.02	Aluminum Flange Heating Ducts	1	

19 / 2	81620.13 / 81620.14	Air Duct Distribution Box – FWD LH Air Duct Distribution Box – FWD RH	1	
		<i>Attaching Parts</i>		
3	ND4258	POP Blind Rivet 4,0 x 10,2 mm Uni	4	
4	31143	Washer DIN9021 4,0 x 10,5 x 1,25 mm	4	
5	81620.06	CHS Outlet Mesh 1"	1	
6	81620.04	Aluminum Flange for 1" Ducting	1	
7	01782	Hose Clamp NORMA 20-32 mm	2	
8	00204	Bolt AN3-5A	1	
9	149	Washer AN960-10L	2	
10	33566	Clamp 90° Twist Lyco 72815		
11	03302	Clamp MS21919WDG16	1	
17	88	Nut MS21083N3	1	

12	81620.16	Air Duct Tunnel – AFT	1	
		<i>Attaching Parts</i>		
13	01526	Hose Clamp NORMA 50-70 mm	2	
14	35735	Clamp MS21919WDG32	1	
15	35095	Bolt AN3-26A	1	
16	81620.08	Spacer Heating Duct	1	
18	81620.02	Aluminum Flange Heating Ducts	1	

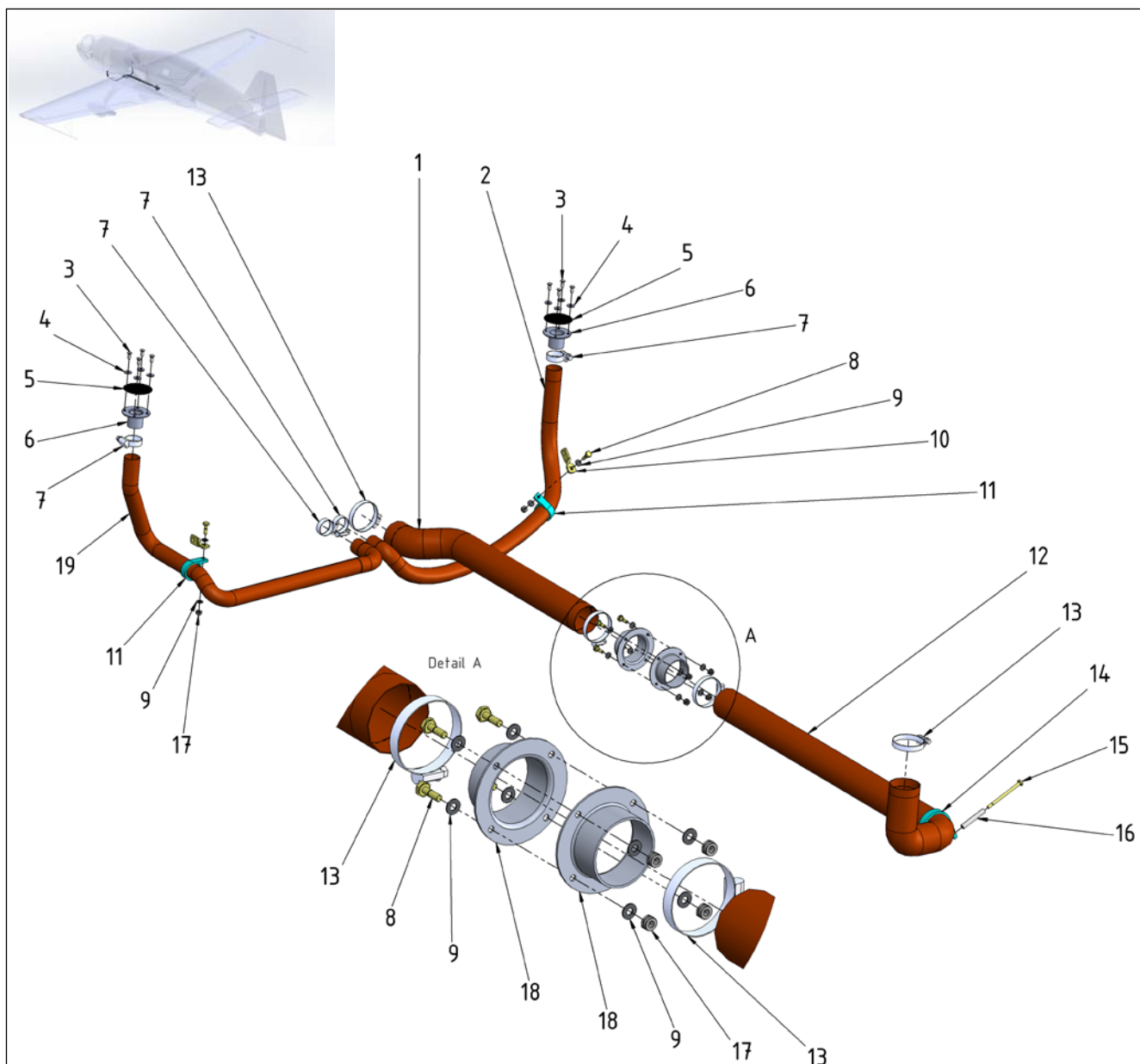


Figure 21-5 Hoses

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
With Additional Oil Cooler			
1	81630.01	CHS Baffle Plate FWD RH	1
3	81630.05	CHS Inlet Mesh 2,5"	1
4	81630.02	Aluminum Flange for 2,5"-Duct <i>Attaching Parts</i>	1
2	NA4062	Nutplate Rivet 3/32" x 2/16" Uni ***	4
6	81630.17	Air Duct Baffle - Reducer <i>Attaching Parts</i>	1
5	01353	Hose Clamp 60-80 mm	2
7	36732	Clamp MS21919-DG42 ***	1
8	36203	Reducer Ø2,5" – Ø3"	1
9	81630.11	Air Duct Reducer – Exhaust <i>Attaching Parts</i>	1
5	01353	Hose Clamp 60-80 mm ***	2
10	81630.12	Air Duct Exhaust – Inlet Box <i>Attaching Parts</i>	1
5	01353	Hose Clamp 60-80 mm ***	2
11	03248	Heating Shroud EA300	1
12	81630.03	Cover 2" Air Intake <i>Attaching Parts</i>	1
2	NA4062	Nutplate Rivet 3/32" x 2/16" Uni ***	4

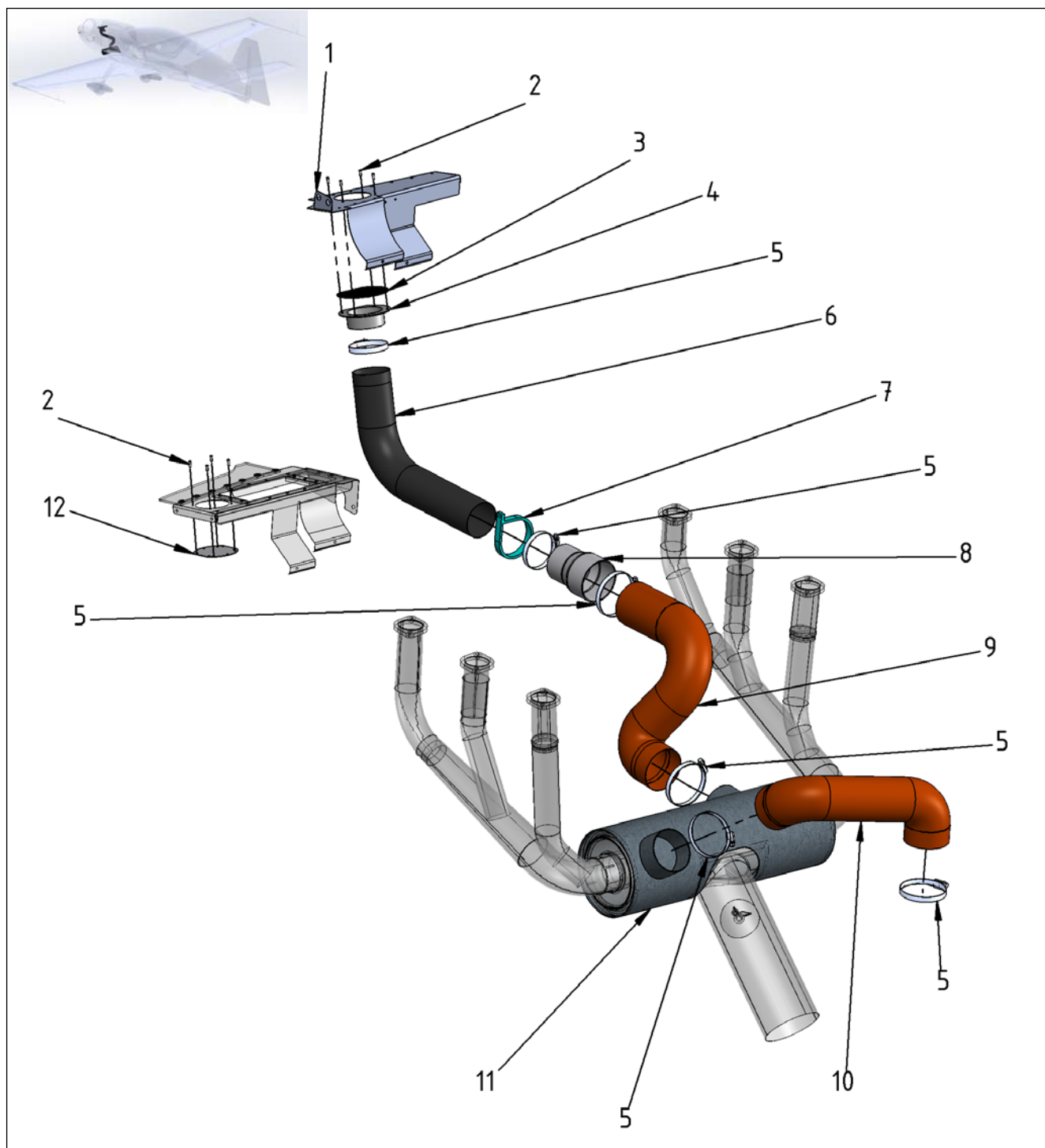


Figure 21-6 With Additional Oil Cooler

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22

Auto Flight

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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22-10 Auto Pilot

-	35024	Garmin G3X GSA 28 Servo Install Kit	2	
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Roll Servo

3	81216.10	AP Roll Servo Assembly	1	
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Attaching Parts

1	04001	Nut AN365-1032A	4	
---	-------	-----------------	---	--

2	NA4127	Washer AN960C10	4	
---	--------	-----------------	---	--

4	31583	Washer AN960-10	4	
---	-------	-----------------	---	--

5	00204	Bolt AN3-5A	4	
---	-------	-------------	---	--

12	81216.50-VM	AP Push Rod Assembly	1	
----	-------------	----------------------	---	--

Attaching Parts (Roll)

1	04001	Nut AN365-1032A	1	
---	-------	-----------------	---	--

4	31583	Washer AN960-10	1	
---	-------	-----------------	---	--

6	149	Washer AN960-10L	1	
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13	35428	Bolt AN4-7A	1	
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14	35087	Washer AN970-3	1	
----	-------	----------------	---	--

6	149	Washer AN960-10L	1	
---	-----	------------------	---	--

8	04001	Nut AN365-1032A	1	
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9	00936	Washer DIN9021 5,3 x 15 x 1,2 mm	1	
---	-------	----------------------------------	---	--

10	31583	Washer AN960-10	1	
----	-------	-----------------	---	--

11	01703	Bolt AN3-7A	1	
----	-------	-------------	---	--

7	81216.01-LK	AP TT Bracket Roll Servo (painted)	1	
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Attaching Parts

6	149	Washer AN960-10L	2	
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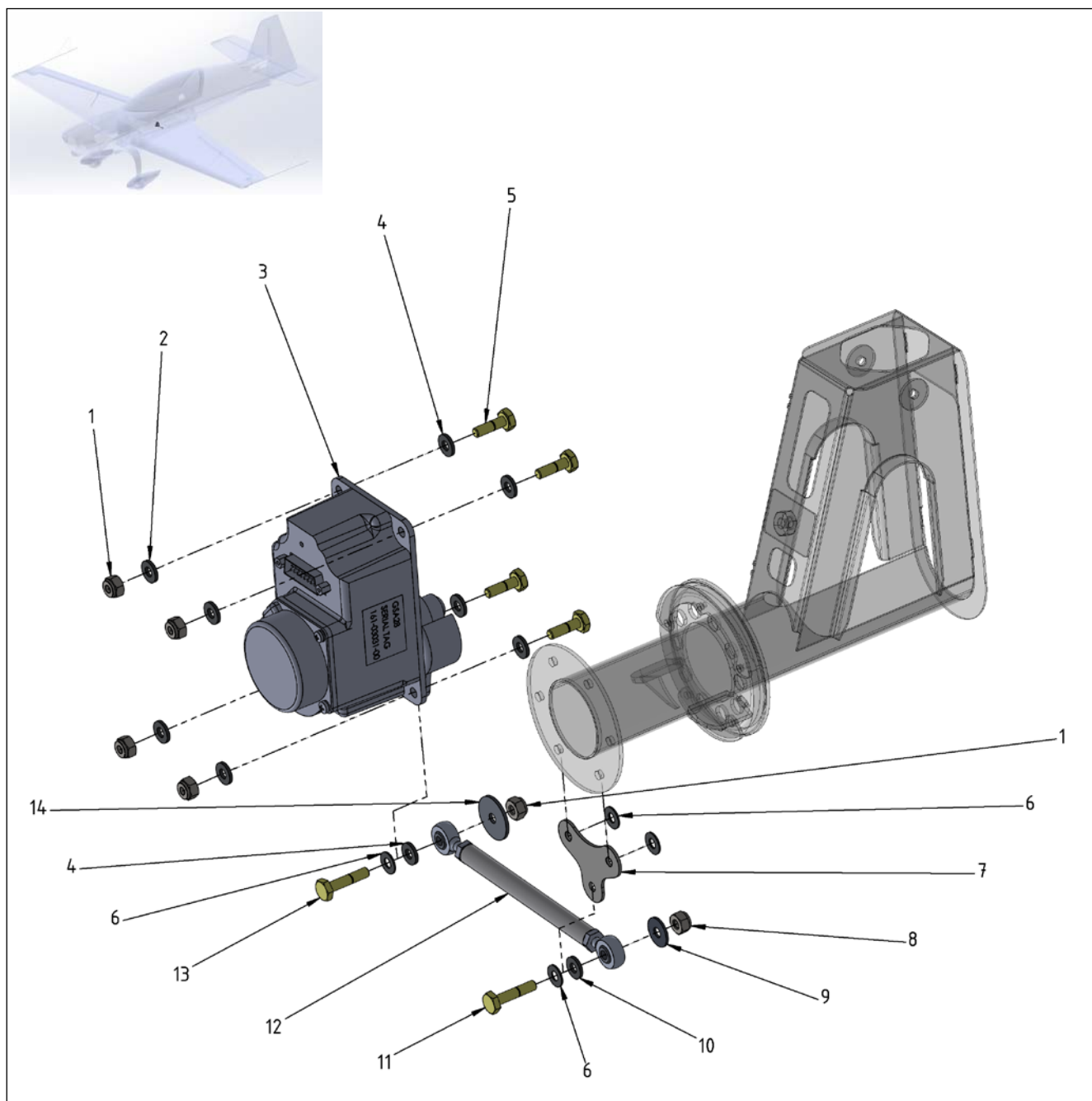


Figure 22-1 Roll Servo

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Pitch Servo

3	81216.30	AP Pitch Servo Assembly	1	
		<i>Attaching Parts</i>		
1	04001	Nut AN365-1032A	4	
2	NA4127	Washer AN960C10	4	
4	31583	Washer AN960-10	4	
5	00204	Bolt AN3-5A	4	

7	81216.51-VM	AP Push Rod Assembly	1	
		<i>Attaching Parts</i>		
1	04001	Nut AN365-1032A	2	
4	31583	Washer AN960-10	2	
6	01703	Bolt AN3-7A	1	
8	35087	Washer AN970-3	1	
9	149	Washer AN960-10L	1	
10	35428	Bolt AN4-7A	1	



Figure 22-2 Pitch Servo

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23 Communications

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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23-00

General

Emergency Locator Transmitter

1	34422-PG	ELT Main Assembly	1	
2	In 34422-PG	Mounting Tray Assembly	1	
		<i>Attaching Parts</i>		
3	35224	Screw #10-32 – 5/8"	4	
4	149	Washer AN960-10L	4	

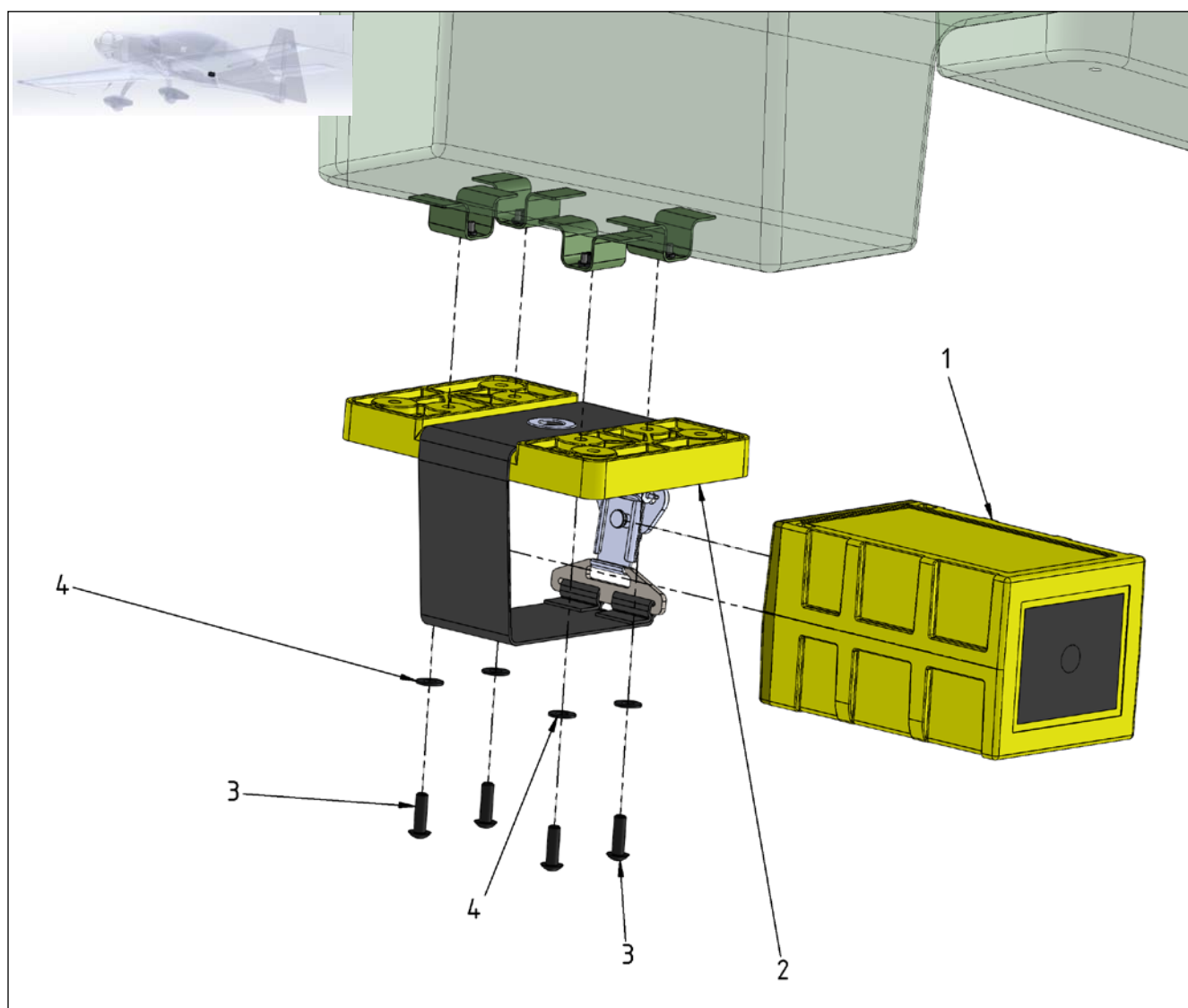


Figure 23-1 Emergency Locator Transmitter

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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GMA 245R Audio Panel

1	34863	GMA-245R Audio Panel	1	
		<i>Attaching Parts</i>		
2	31583	Washer AN960-10	4	
3	00202	Bolt AN3-3A	4	

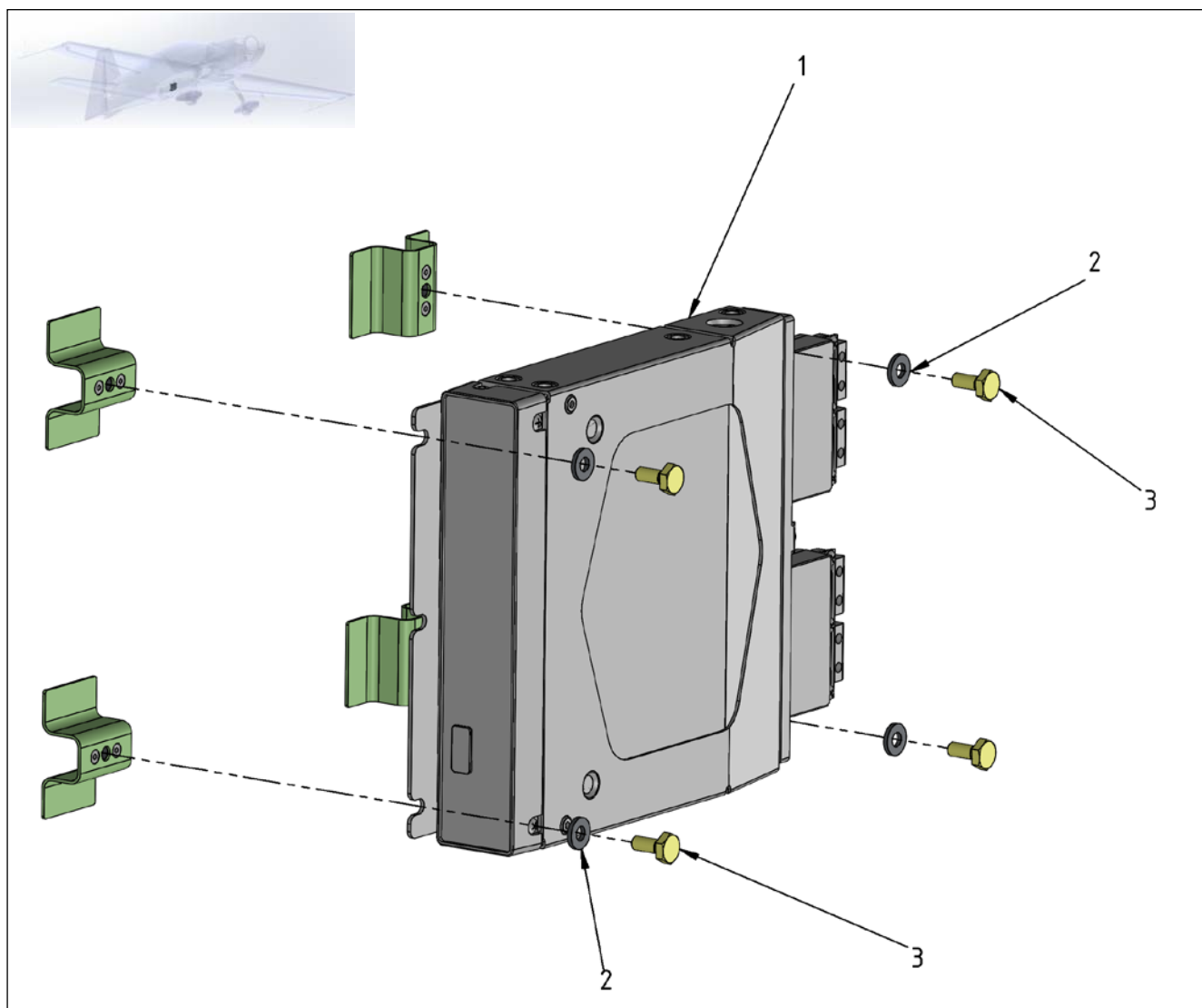


Figure 23-2 GMA 245R Audio Panel

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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23-10

Speech Communication

VHF Radio

1	35021	TY91 COM Unit	1	
		<i>Attaching Parts</i>		
2	00202	Bolt AN3-3A	3	

3	In 35021	. Compact Mounting Tray	1	

For controller refer to Figure 31-3

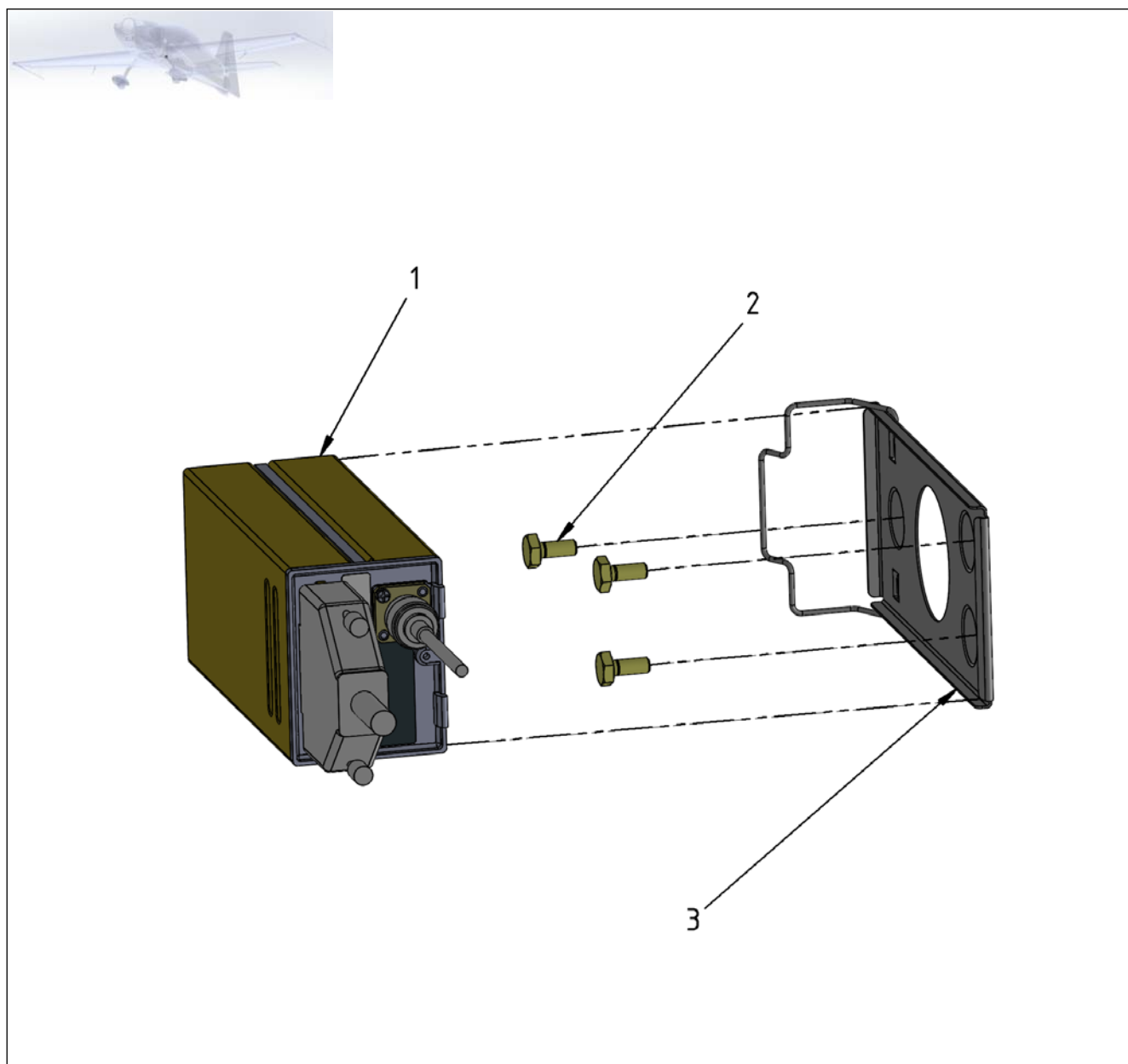


Figure 23-3 VHF Radio

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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GTR 20 VHF DUAL COM

1	34862	GTR 20 VHF COM	1	
		<i>Attaching Parts</i>		
2	149	Washer AN960-10L	4	
3	00204	Bolt AN3-5A	4	
4	35398	Washer DIN9021-5,3 A2	4	
5	04001	Nut AN365-1032A	4	

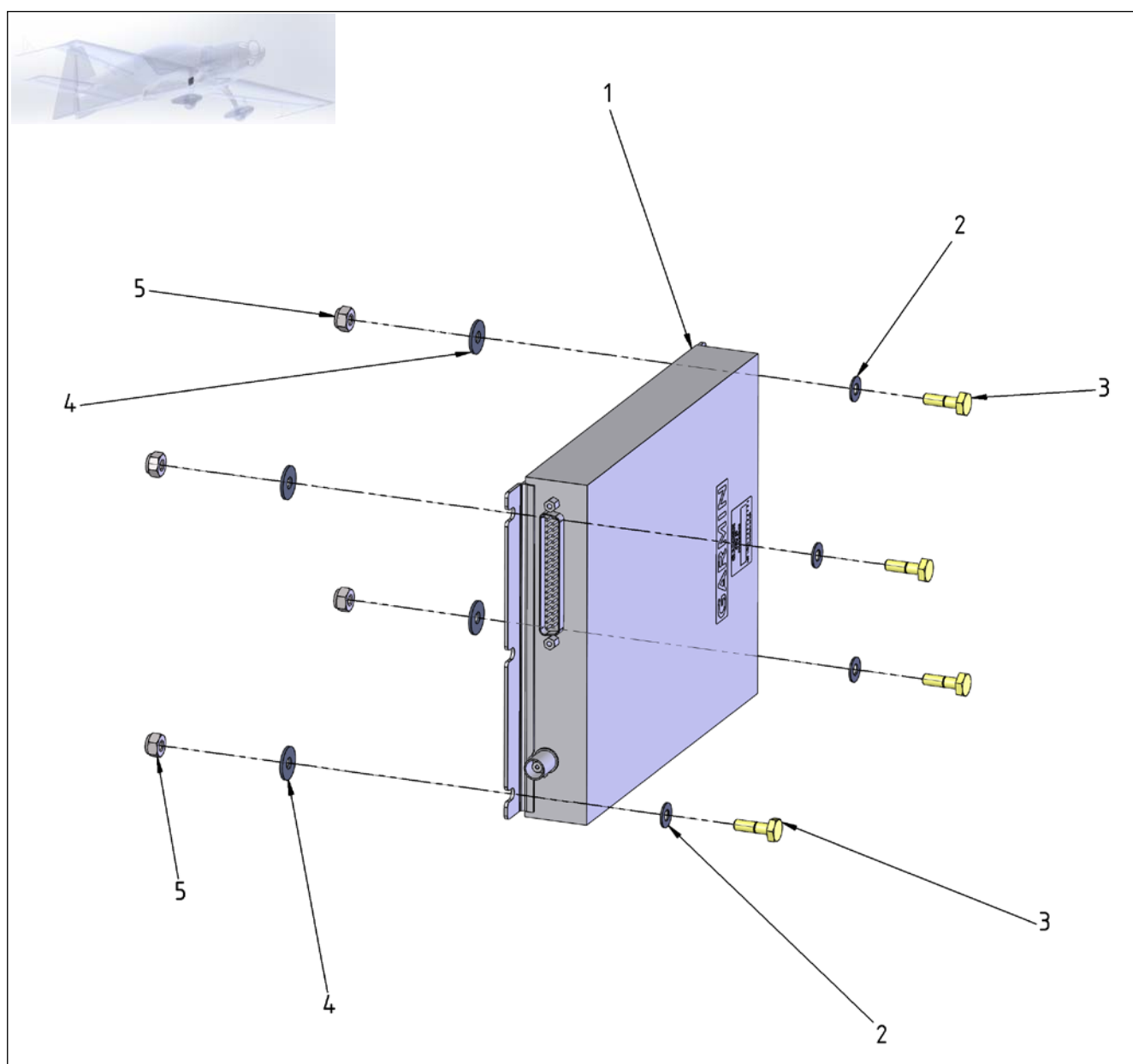


Figure 23-4 GTR 20 VHF DUAL COM

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24 Electrical System

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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24-00 General

-	35595	ACS Keyed Ignition Switch	1	
-	35037	TCW Integrated Back Up Battery System 12V-3AH	1	

24-30 DC Generation

Battery System

1	03617	Concorde Battery RG-25XC	1	
7	71924.19-LK	U-Plate Battery Mount (painted)	1	
4	71924.33	. Rubber Pad 25x12	4	
5	71924.32	. Rubber Pad 100x12	2	
6	71924.31	. Rubber Pad 190x12	1	
8	71924.10-VM	Latch Bar Battery Mount	1	
6	71924.13-VM	. Rubber Pad 190x10	1	
15	71924.20-VM	Battery Mount Weld Assembly	1	
<i>Attaching Parts</i>				
2	149	Washer AN960-10L	6	
3	00204	Bolt AN3-5A	6	
9	ND4157	POP Blind Rivet 2,4 x 6,0 mm Countersunk 120°	4	
10	00583	Nut Plate MS21069-L3	2	
11	04001	Nut MS21044-N3	4	
12	35398	Washer DIN9021-5,3 mm A2	4	

4	71924.33	. Rubber Pad 25x12	2	
14	71924.34	. Rubber Pad 55x12	2	
13	71924.35	. Rubber Pad 75x12	2	

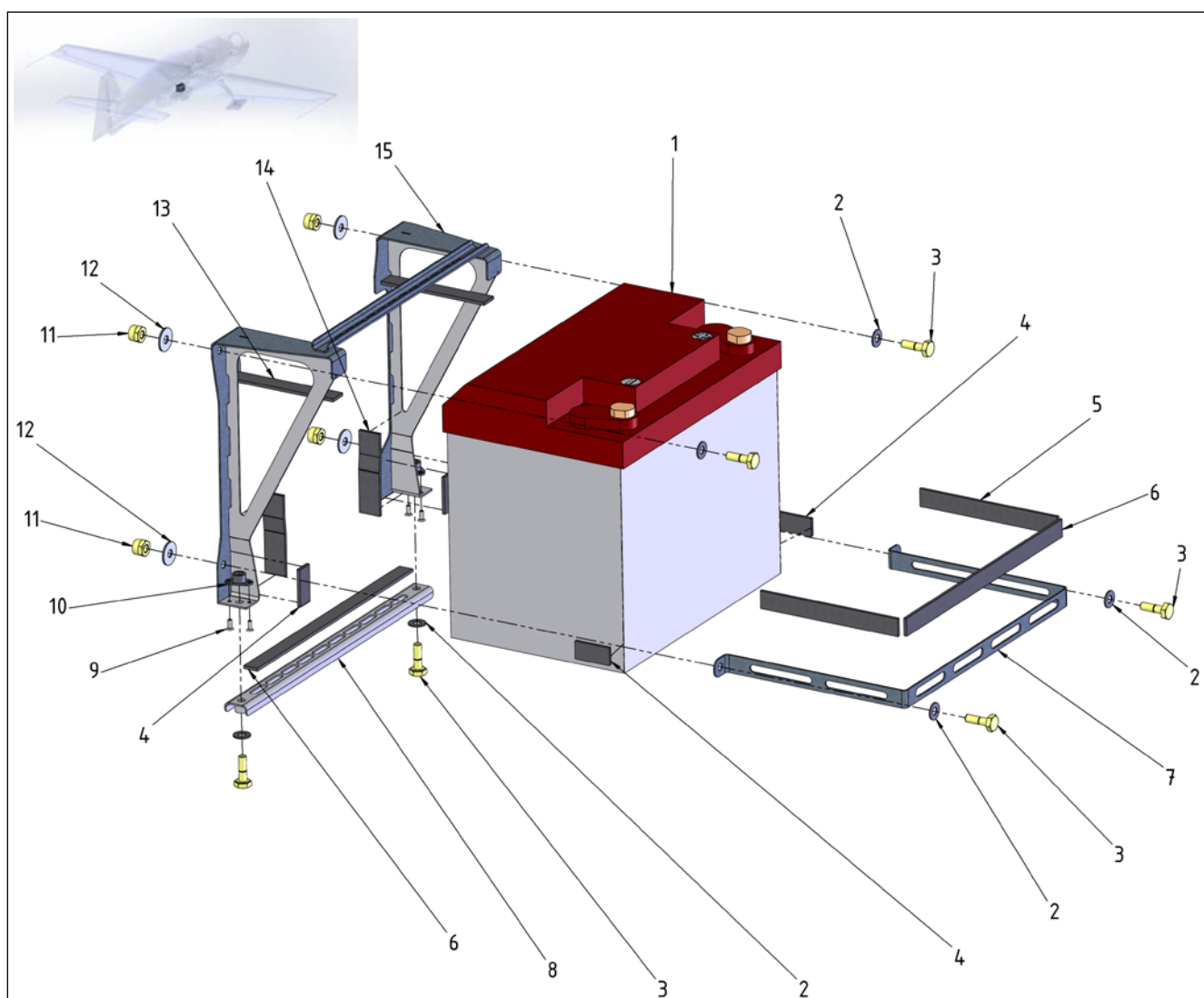


Figure 24-1 Battery System

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Integrated Battery Back-up System

1	35037	IBBS 12V-3Ah	1	
		<i>Attaching Parts</i>		
2	01703	Bolt AN3-7A	4	
3	149	Washer 960-10L	4	
4	04001	Nut MS21044-N3	4	

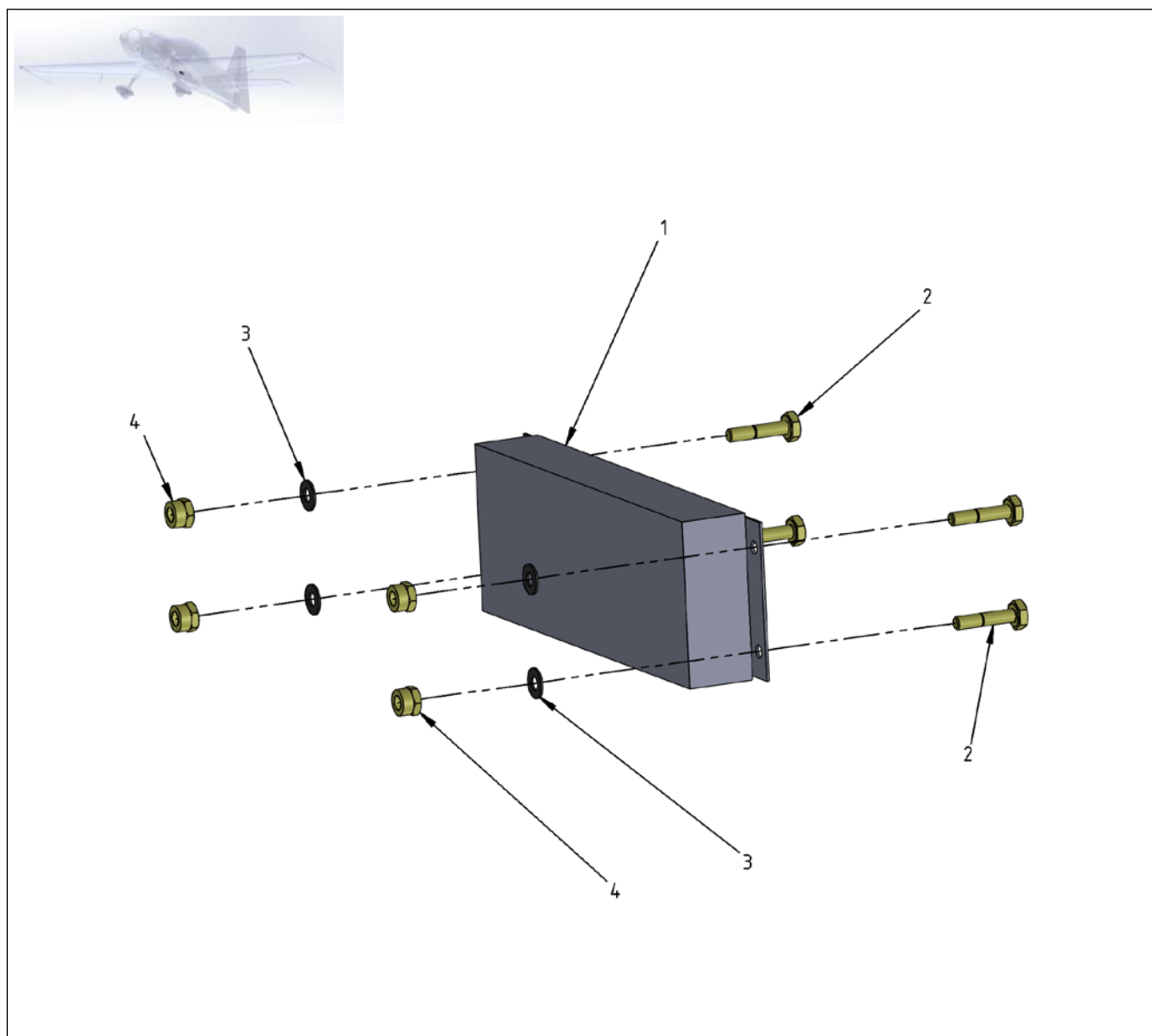


Figure 24-2 Integrated Battery Back-up System

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Alternator System 65A

1	33558	Alternator 65A	1	
		<i>Attaching Parts</i>		
2	81692.03	Alternator Mount	1	
3	00076	Nut LN9348-05	2	
4	35626	Cotter Pin MS24665-134 (AN380-2-3)	1	
5	700018	Nut AN310C-5	1	
6	00936	Washer AN970-5	1	
7	81692.04	Bushing	1	
8	81692.05	Connection Bracket	1	
9	700014	Washer AN960-516	2	
11	35625	Bolt AN5-51	1	
16	34956	Bolt LN9037-K08020	1	
-	00781	Safety Wire MS20995-C32 (0,8 mm)		
18	81692.02	Generator Support	1	

12	81692.01	V-Belt Pulley	1	
15	FT0003	Fan Wheel 17 x 135 x 12,18 mm	1	
		<i>Attaching Parts</i>		
10	81692.08	Distance Bushing	1	
13	ND4215	Spring Washer DIN137 Form B 17	1	
14	ND4216	Nut DIN439 04 M16x1,5	1	

17	36045	V-Belt AVX 10 x 960 mm	1	

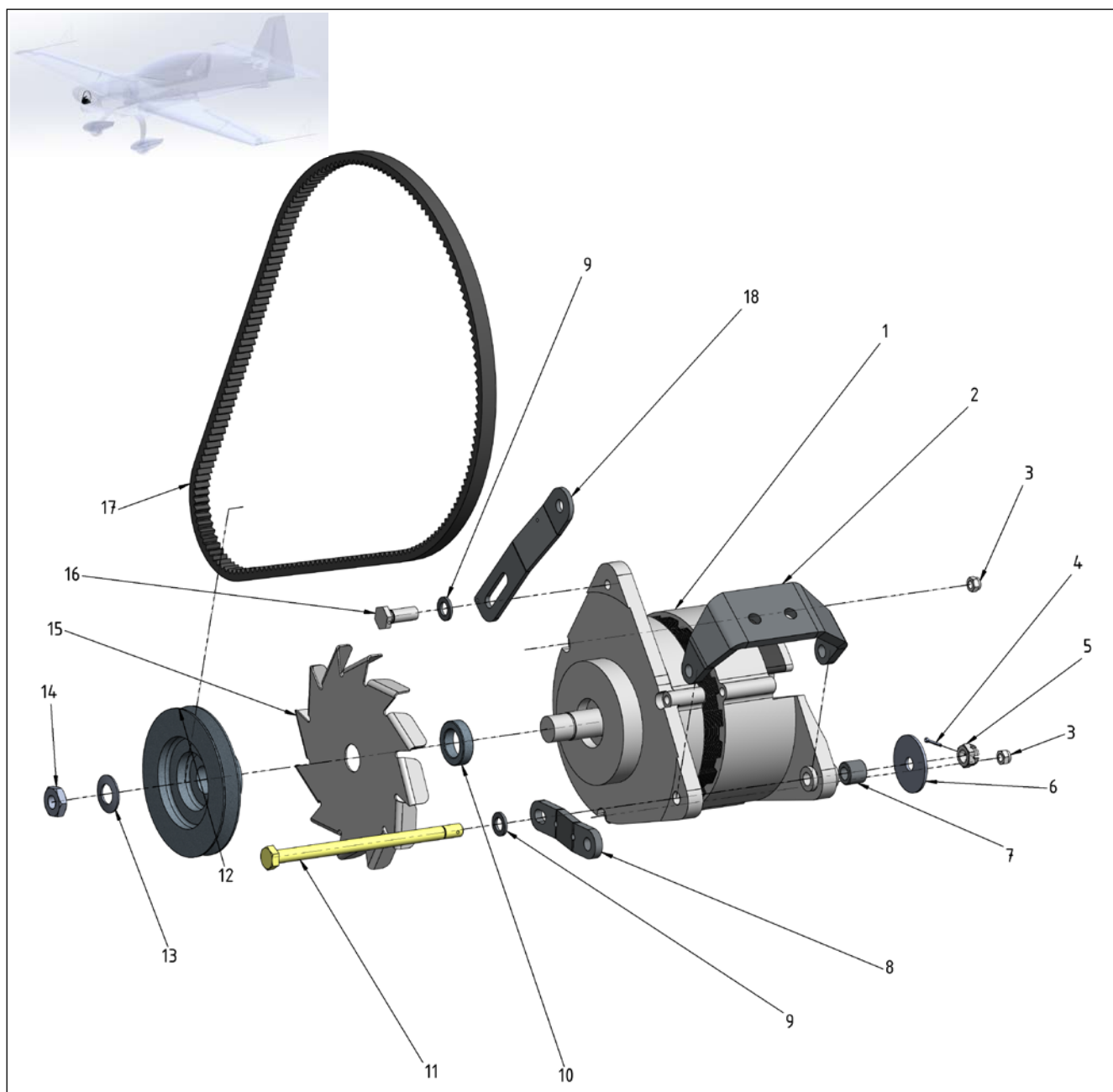


Figure 24-3 Alternator System 65A

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Alternator System 60A

1	45032	Alternator 60A (Installation Kit)	1	
		<i>Attaching Parts</i>		
2	33020	Washer AN960-516	2	
-	34535	Safety Wire MS20995-C32	1	

3	In 45032	. V-Belt	1	
-	41048	V-Belt	a	

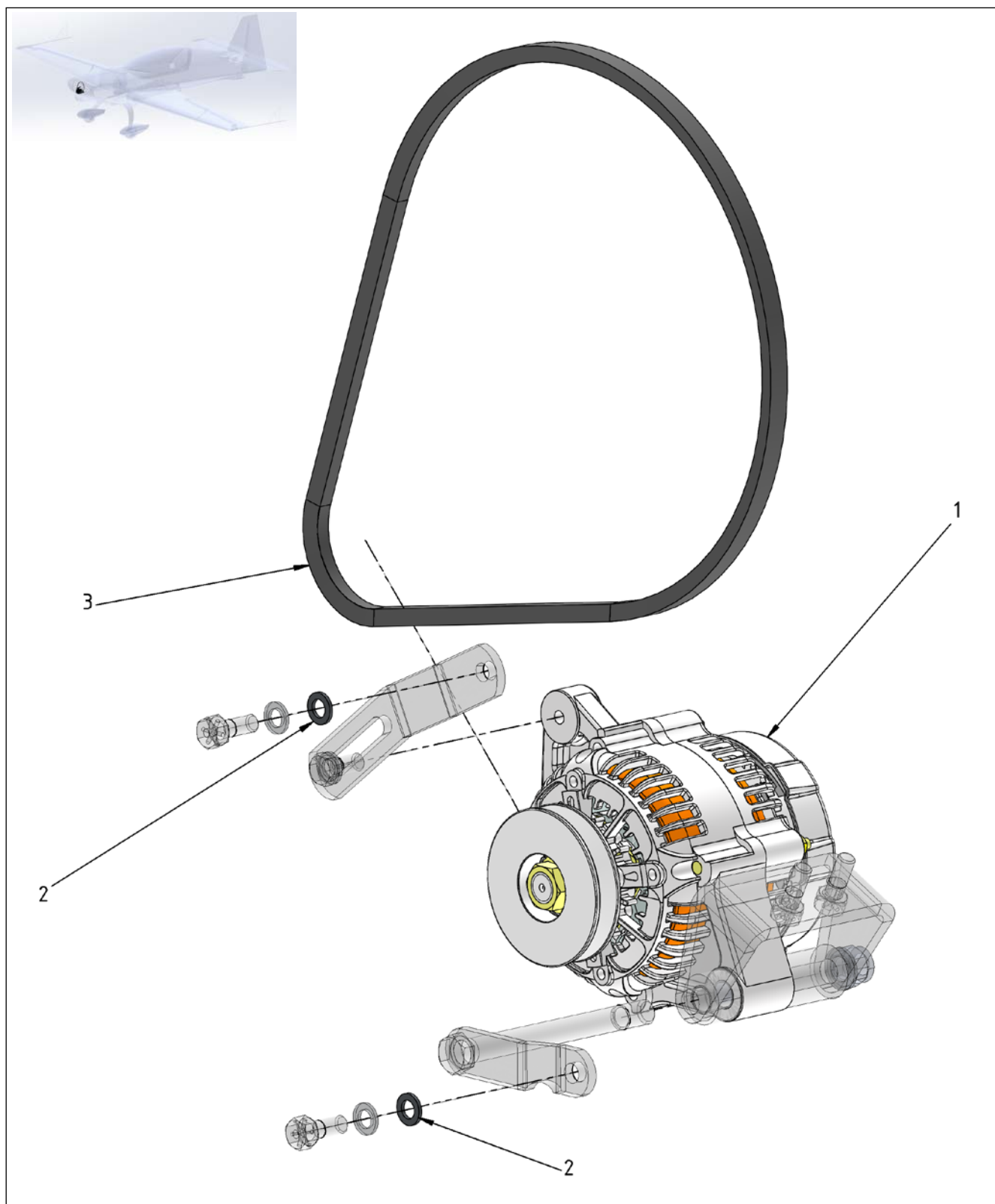


Figure 24-4 Alternator System 60A

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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24-60 DC Electrical Load Distribution

Circuit Breaker

1	31505	Circuit Breaker 10 Amp	2
2	31506	Circuit Breaker 5 Amp	6
3	31508	Circuit Breaker 2 Amp	3
4	81512.60	CB Assembly Landing Light (optional)	1
5	81512.10	CB Assembly Smoke (optional)	1
6	31526	Circuit Breaker 1 Amp	1
7	31528	Bolt MS35206-226	13
8	<i>In each CB</i>	Lockwasher MS35338-136	2
9	31527	Circuit Breaker 20 Amp	1
10	In each CB	Keyway Washer	1
11	In each CB	Lockwasher MS35333-141	1
12	In each CB	Mounting Nut MS25082-B18	1
13	81512.00	CB Assembly GNX375 & GTR 2x5 (optional)	1
14	71553.13	Bus Bar (5 Positions)	1
15	81512.50	CB Assembly Autopilot (optional)	1
16	01845	Blind Plug 10mm Rubber	7
17	81512.20 / 30	CB Assembly 12V / USB Pilot (optional)	1
18	31529	Bolt MS35206-227	11
19	32482	Bolt MS35206-228	2
20	71553.12	Bus Bar Connector	1
21	71553.11	Bus Bar	1

each optional CB replaces 1x16 and requires
1x7 and 1x18

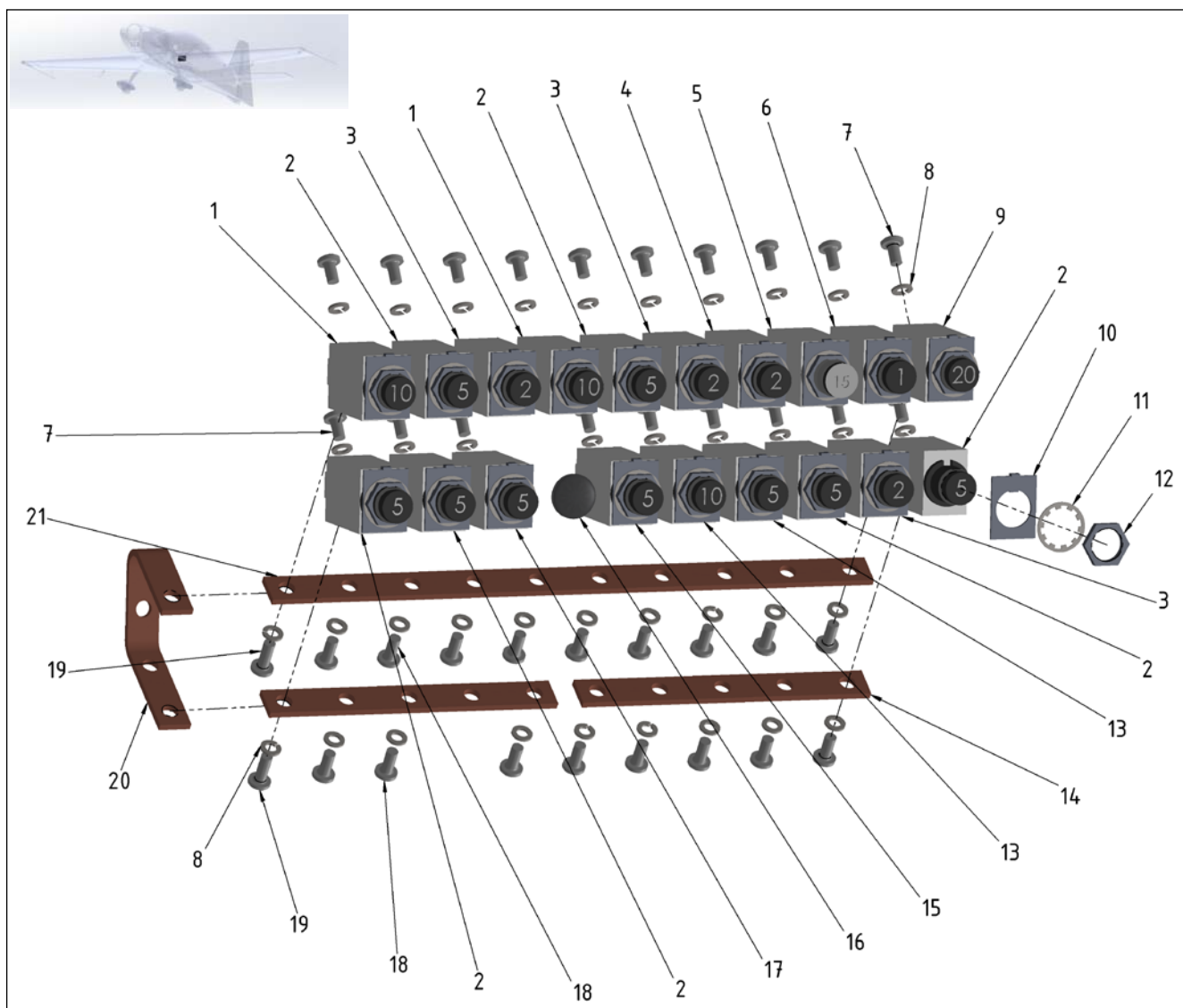


Figure 24-5 Circuit Breaker

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Toggle Switch

1	35849	Toggle Switch	10	
2	In 35849	. Securing Ring	1	
3	In 35849	. Nut	1	
8	71508.11	System Switch Lever (black)	7	
9	71508.21	Main Switch Lever (red)	3	
6	71505.61-LK	Switch & CB Panel	1	
<i>Attaching Parts</i>				
5	118	Bolt AN526C1032R8	4	
4	07037	Nutplate Rivet 3/32" x 2/16" Countersunk 100°	4	
-	35621	Bolt MS51957-32B	2	
7	33030	Nut Plate MS21071-06	2	

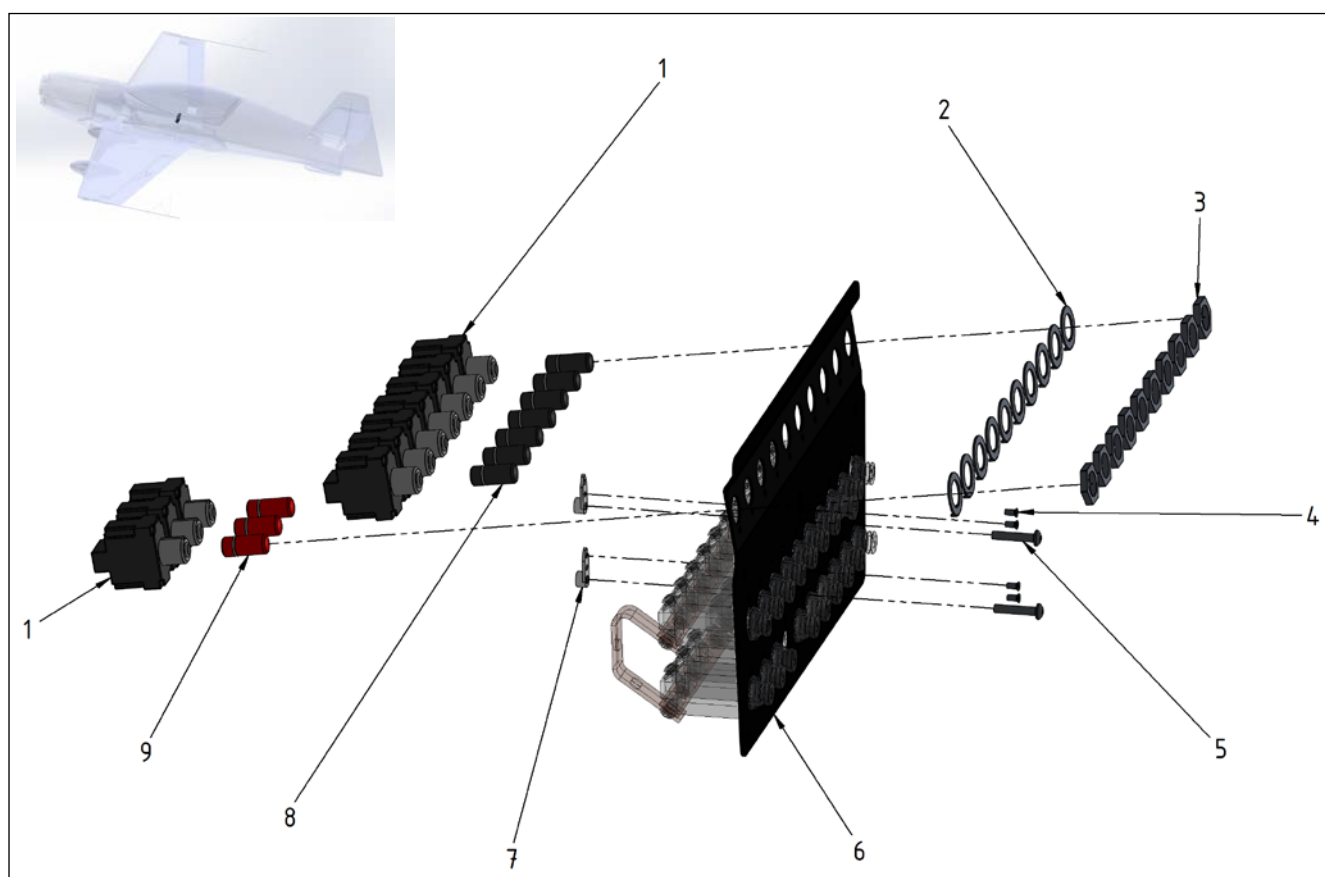


Figure 24-6 Toggle Switch

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
Relay Rack Assembly				
1	71921.12	Busbar Relays	1	
4	71551.20	Relay PCB Fuse pre-assembled	1	
-	30525	. Fuse 5,0A	2	
-	30521	. Fuse 1A	2	
5	in 34793	Ammeter, Shunt	1	
<i>Attaching Parts</i>				
6	00543	Bolt DIN933 M4x20	2	
7	01075	Washer DIN125 4,3	4	
8	00075	Nut LN9348-04	2	

2		. Bolt AN500-8-4	2	
3		. Washer MS35338-42	2	
9		. Washer MS35338-40	2	
10		. Nut AN315-4	2	
11	71921.11	Plate Relay Rack Front	1	
16	31614	Smoke Relay (optional)	2	
19	33586	Relay RP/120-12	1	
<i>Attaching Parts</i>				
14	00758	Bolt AN4-5A	1	
15	35083	Washer AN960-416L	2	
17	00417	Washer DIN125 6,4 mm	2	
18	00407	Nut DIN934-8 M6	2	
24	NA4150	Nut AN364-428A	1	

20	33591	Fuse MEGA 80A – 32 VDC	1	
23	35827	Starter Solenoid	1	
-	36792	Starter Solenoid	a	
<i>Attaching Parts</i>				
12	31583	Washer AN960-10	2	
13	00204	Bolt AN3-5A	2	
21	700014	Washer AN960-516	2	
22	NA4284	Nut AN315-5	2	
25	00936	Washer DIN9021 5,3 x 15 x 1,2 mm	2	
26	04001	Nut MS21044-N3	2	

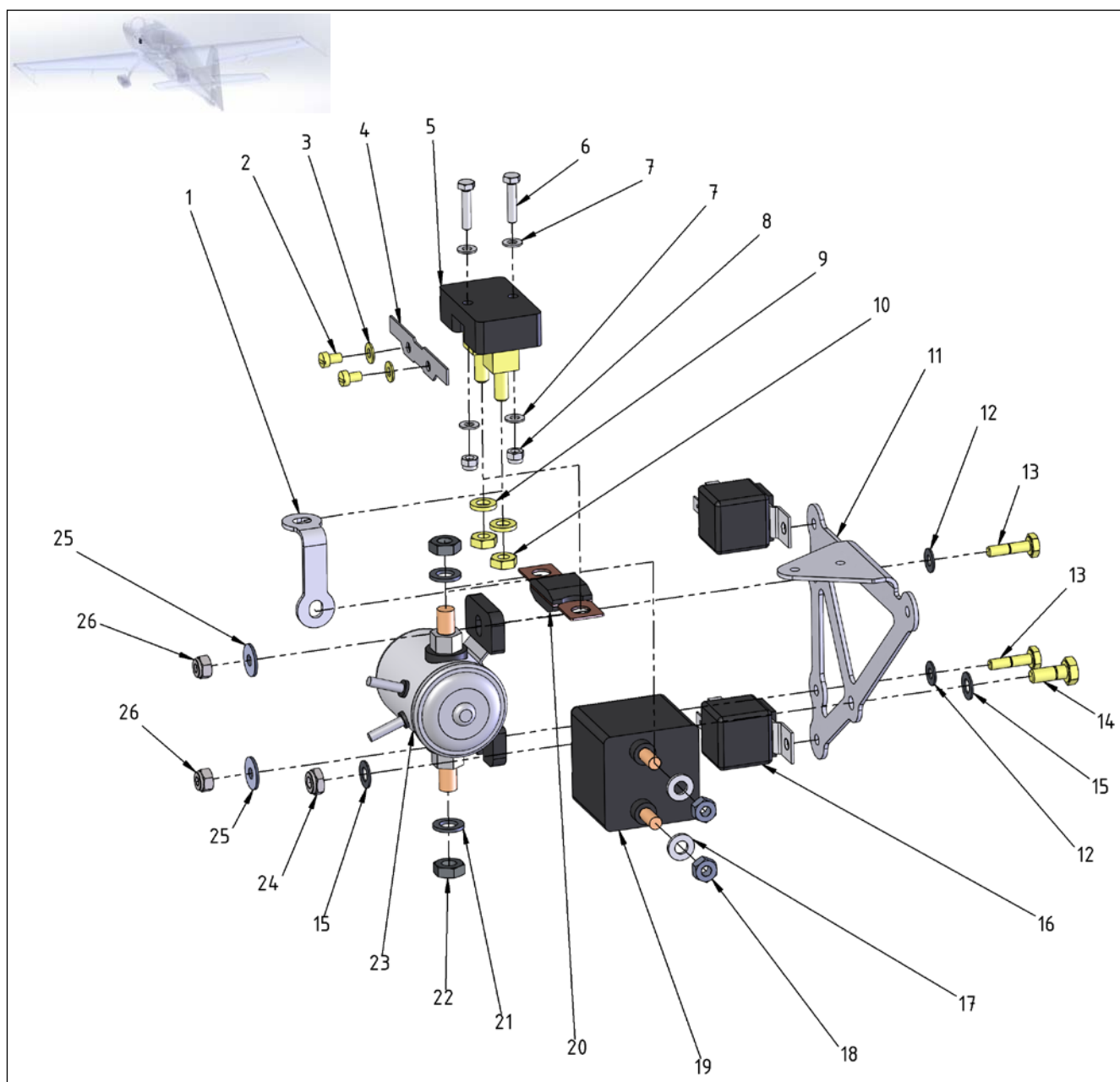


Figure 24-7 Relay Rack Assembly

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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24-70

External Power

1	00136	Power Solenoid Cont <i>Attaching Parts</i>	1	
2	81691.02	Relay Connection Bar	1	
3	00589	Bolt AN3-4A	2	
4	00936	Washer DIN9021-5,3 ***	2	
7	81691.01	External Power Assembly Bracket <i>Attaching Parts</i>	1	
5	81691.10	Grounding Cable	1	
6	00204	Bolt AN3-5A	3	
12	149	Washer AN960-10L	3	
13	NA4126	Washer AN960C-10L	3	
14	88	Nut MS21083N3	3	
15	700042	Nut MS21083N5 ***	2	
8	31731	Single Pole Power Receptacle <i>Attaching Parts</i>	1	
9	81391.03	Belly Fairing Seal	1	
10	00205	Bolt AN5-6A	2	
11	25092	Washer AN960-516L ***	4	

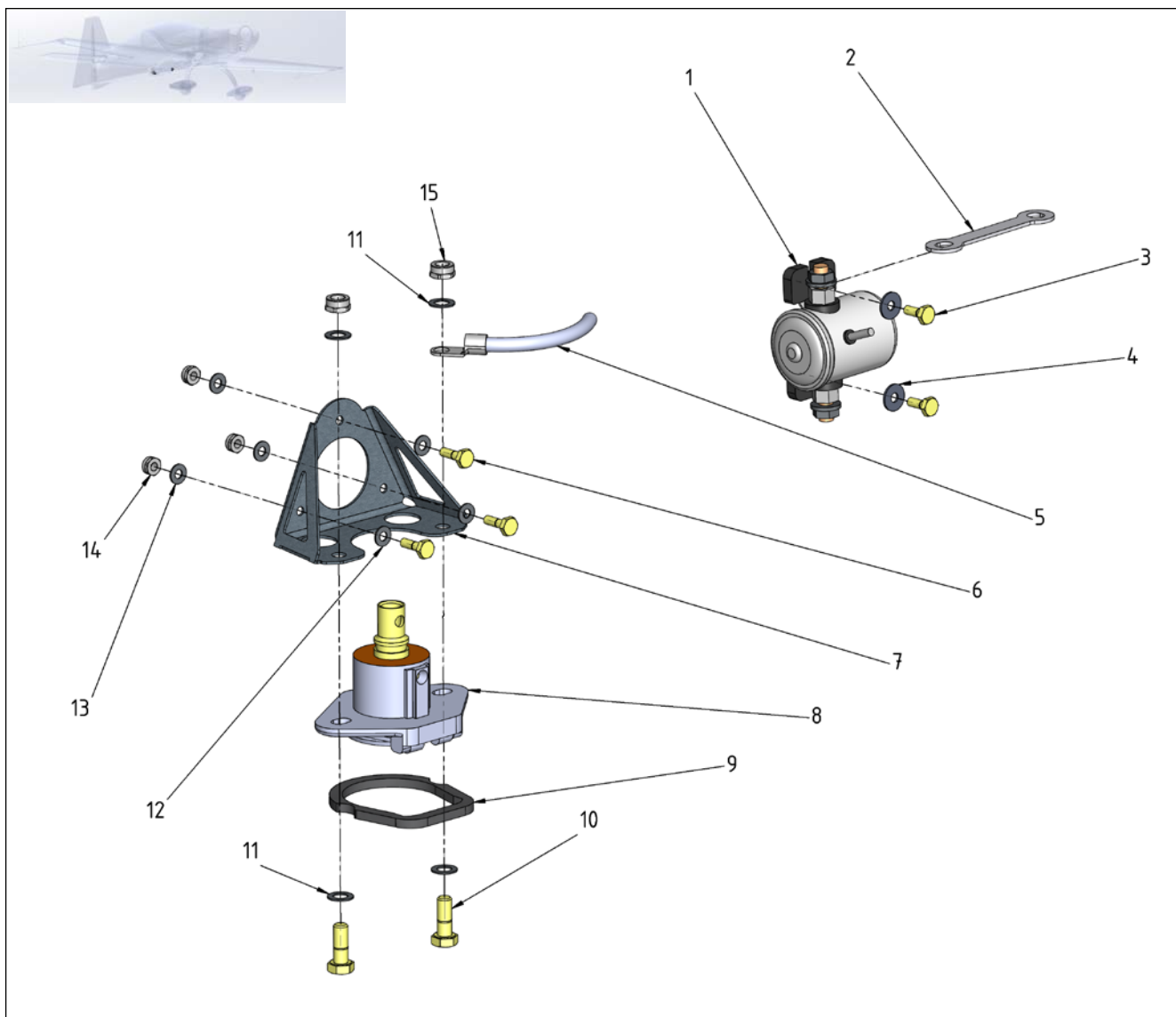


Figure 24-8 External Power

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25 Equipment and Furnishings

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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25-10 Flight Compartment

Rear Seat Backrest

1	71202.00-VM	Pilot Backrest	1	
2	71202.01	. Aft Backrest Hinge Bracket	1	
3	149	. Washer AN960-10L	4	
4	00589	. Bolt AN3-4A	4	
9	21490.02	Bracket Backrest Adjuster	1	
<i>Attaching Parts</i>				
3	149	Washer AN960-10L	8	
4	00589	Bolt AN3-4A	4	
10	00602	Nut MS21042-3	4	

15	35135	Gas Spring 150N	1	
<i>Attaching Parts</i>				
3	149	Washer AN960-10L	2	
5	NA4131	Bolt AN4-11	1	
6	21490.03	Spacer Sleeve M8 – 1/4"	1	
7	35363	Nut AN310C4	1	
8	NA4099	Cotter Pin MS24665-132	2	
11	700018	Nut AN310C5	1	
12	700014	Washer AN960-516	2	
13	ND4058	Joint Head SFRCP 08	1	
14	35437	Bolt AN5-12	1	
16	35239	Ultra-Light Release Head		

19	21490.10-FB	Backrest Bracket	2	
<i>Attaching Parts</i>				
17	04247	Nut AN365-428A	2	
18	25060	Washer AN960-416	4	
20	21490.04	Flange Bushing D10 – 1/4"	2	
21	35428	Bolt AN4-7A	2	
22	32510	Ball Lock Pin with L-Handle	1	

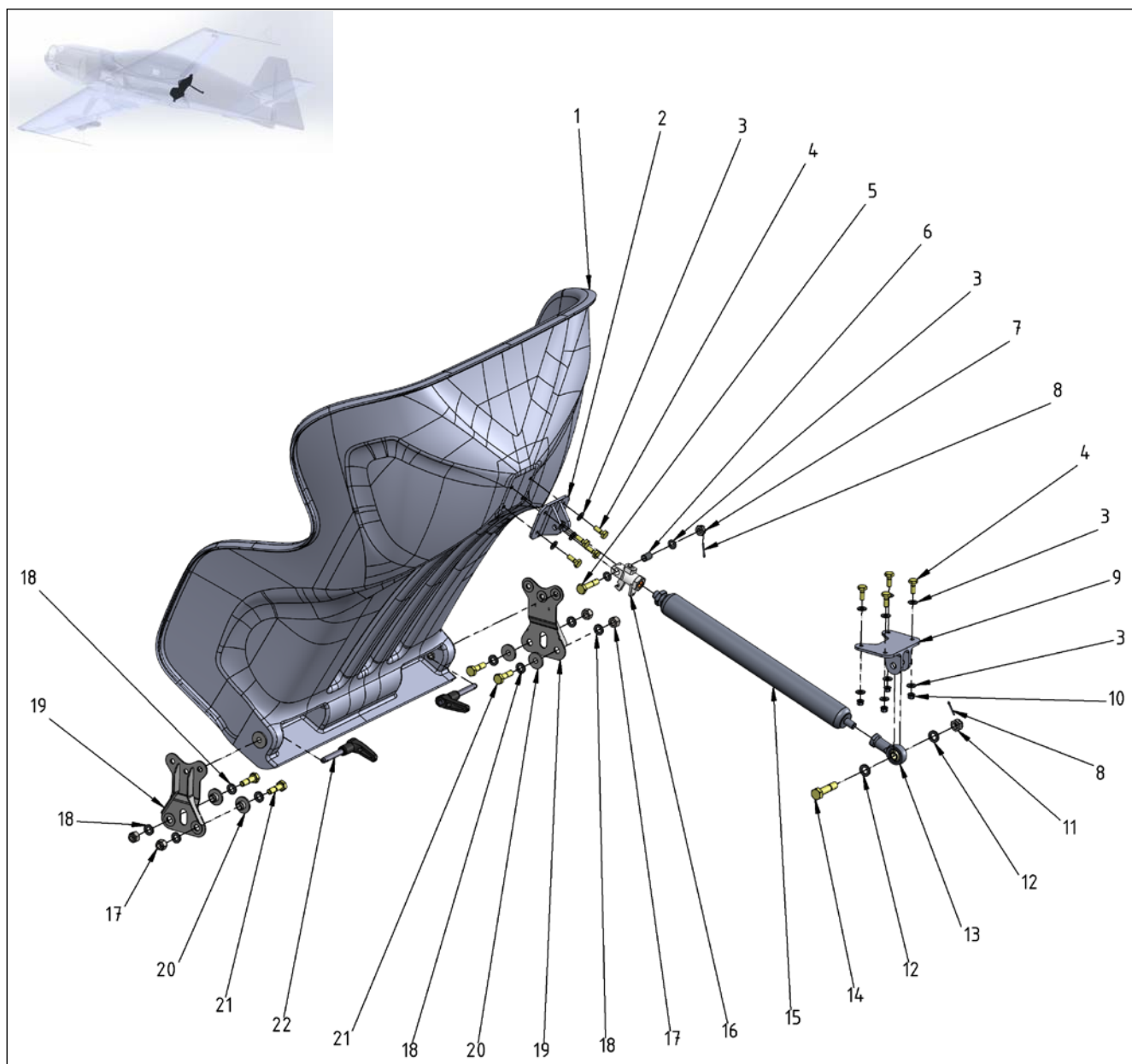


Figure 25-1 Rear Seat Backrest

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Bowden Cable Backrest

8	35792	Push Button (with Bowden cable)	1	
<i>Attaching Parts</i>				
1	35791	End Cap for Bowden Cable	1	
2	00575	Cable Tie MS3367-5-9	1	
3	35761	Spring Ø 0,5 x 5,5 x 23,7 mm	1	
4	71020.31	Grooved Sleeve	1	
5	35392	Screw Nipple 100004	1	
6	35793	Cable Sleeve 6 x 4 mm	1	
7	35393	Bowden Cable Sleeve (black)	1,5	
9	35483	Washer DIN34815 M30	1	

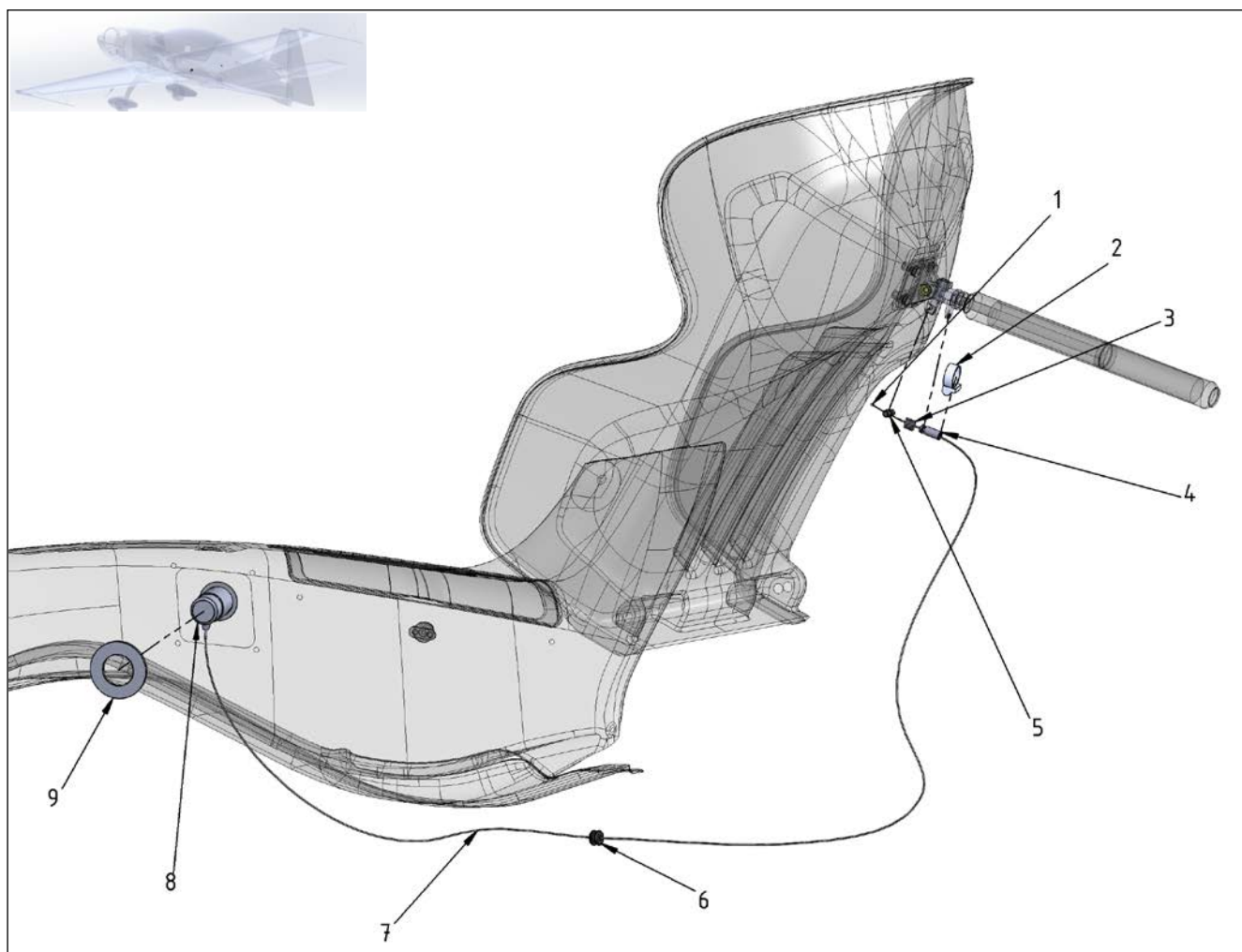


Figure 25-2 Bowden Cable Backrest

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
Panels				
1	71107.20-VF	Side Panel FWD Cockpit RH	1	
2	71106.10-VF	Armrest Copilot RH	1	
	35224	. Bolt 10-32 x 5/8" FT (black)	4	
3	71102.00-VF	Copilot Backrest	1	
	35224	. Bolt 10-32 x 5/8" FT (black)	6	
4	71207.20-VF	Side Panel AFT Cockpit RH	1	
5	71206.20-VF	Cover Fire Extinguisher	1	
6	71206.10-VF	Armrest Pilot RH	1	
	35224	. Bolt 10-32 x 5/8" FT (black)	5	
7	71201.00-VF	Pilot Seat Pan	1	
8	71203.00-LV	Cover Behind Pilot Seat (prepared for painting)	1	
9	71205.20-VF	Cover POH Storage	1	
10	71207.10-VF	Side Panel AFT Cockpit LH	1	
11	71205.10-VF	Armrest Pilot LH	1	
	35224	. Bolt 10-32 x 5/8" FT (black)	11	
12	71208.30-LV	Heating Outlet Pilot LH (prepared for painting)	1	
	35224	. Bolt 10-32 x 5/8" FT (black)	4	
13	71208.40-LV	Heating Outlet Pilot RH (prepared for Painting)	1	
	35224	. Bolt 10-32 x 5/8" FT (black)	4	
14	71107.10-VF	Side Panel FWD Cockpit LH	1	
15	71105.10-VF	Armrest Copilot LH	1	
	35224	. Bolt 10-32 x 5/8" FT (black)	4	
16	71108.10-VF	Air Duct Copilot LH	1	
17	71101.00-VF	Copilot Seat Pan	1	
	35224	. Bolt 10-32 x 5/8" FT (black)	2	
18	71103.00-VF	Copilot Backrest Cover	1	
	35224	. Bolt 10-32 x 5/8" FT (black)	6	
19	71108.20-VF	Air Duct Copilot RH	1	

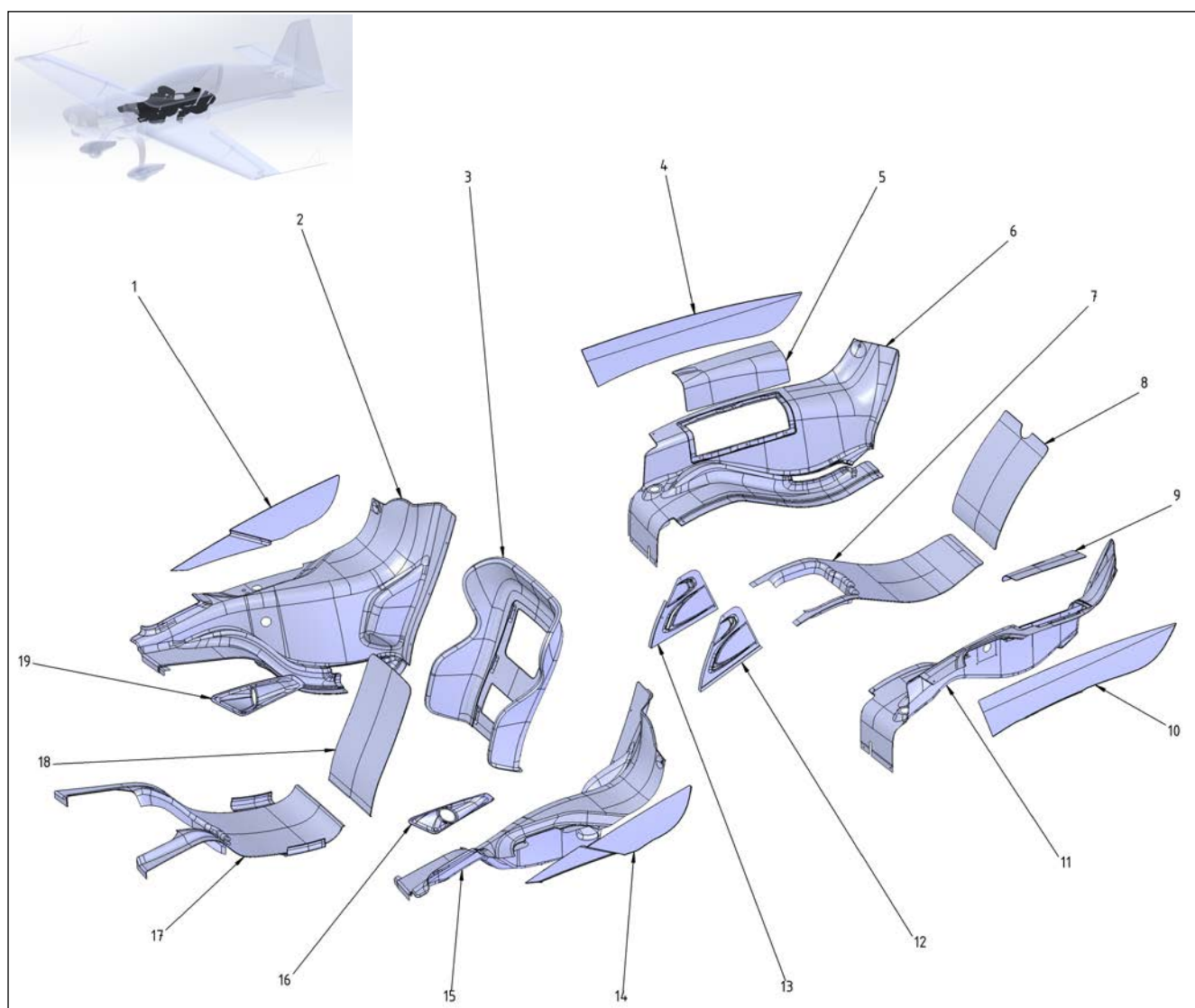


Figure 25- 3 Panels

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Cabin Facilities

1	71111.00	Seat Cushion (Copilot)	1	
2	71213.00	Stick Cover (Pilot)	1	
3	71211.00	Seat Cushion (Pilot)	1	

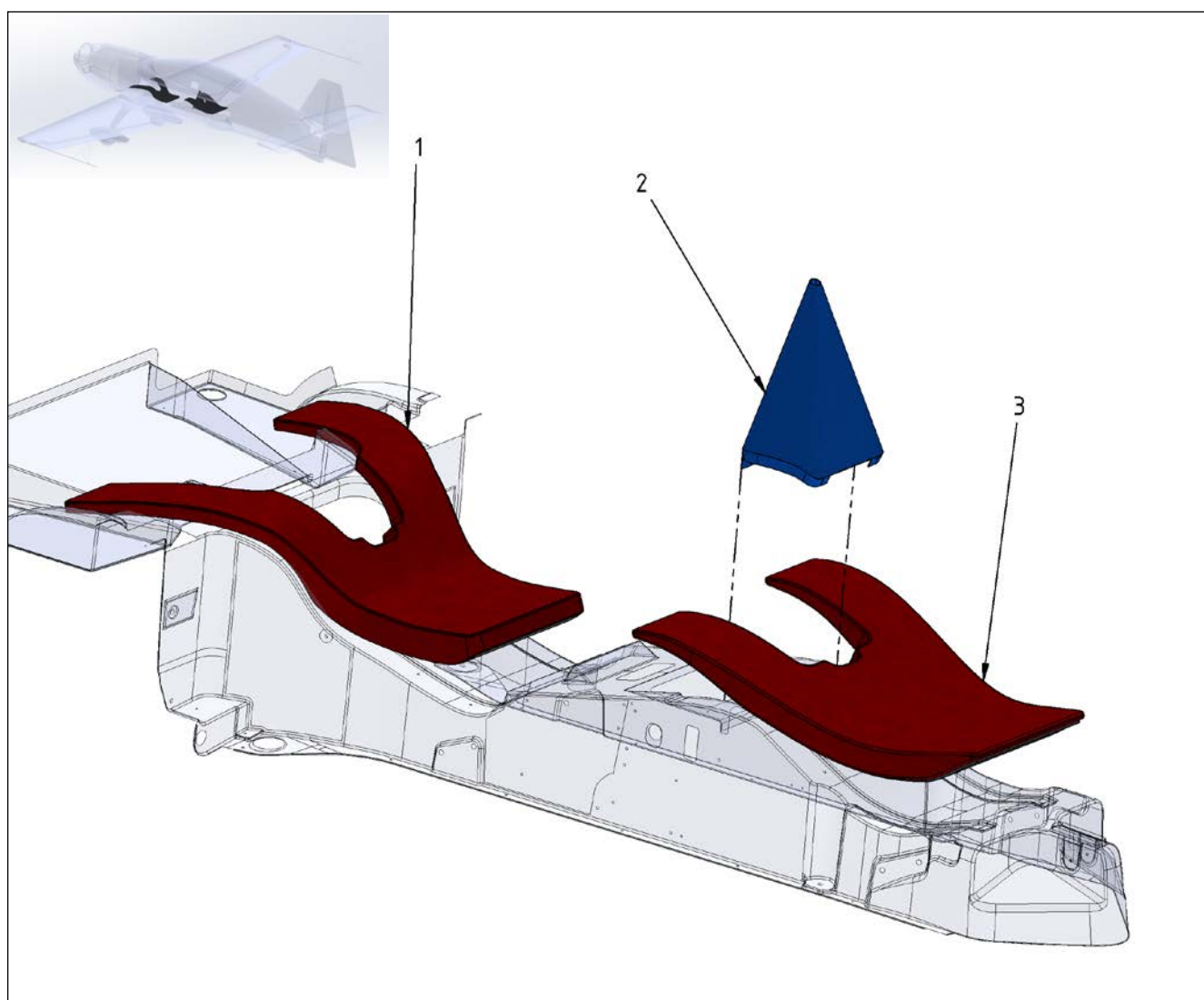


Figure 25-4 Cabin Facilities

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Control Panel (Pilot)

Standard

4	71525.10	Control Panel RH	1	
		<i>Attaching Parts</i>		
1	In 35353	Nut MS21044-C3	1	
2	In 35353	Washer AN960-C10L	1	
3	71525.20	Mounting Bracket	1	

6	33622	Headphone Jack SWC 12B	1	
		<i>Attaching Parts</i>		
5	31382	Round Washer SWC S1028	1	
8	31381	Round Washer SWC S1029	1	

7	00196	Microphone Jack SWC S12B	1	
		<i>Attaching Parts</i>		
5	31382	Round Washer SWC S1028	1	
8	31381	Round Washer SWC S1029	1	

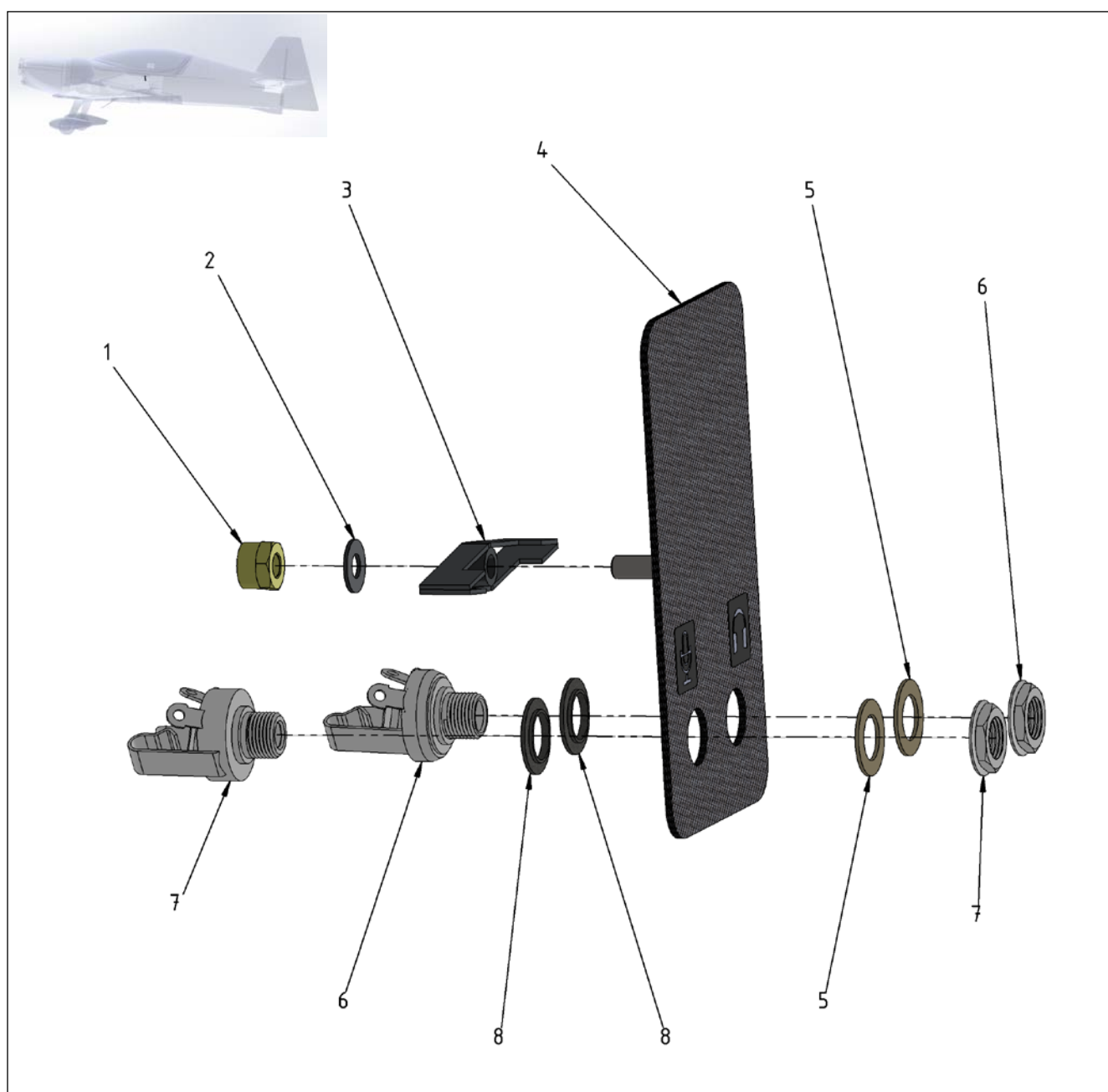


Figure 25-5 Control Panel (Pilot) - Standard

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Bose LEMO (optional)

4	81562.20	Control Panel RH (w LEMO) <i>Attaching Parts</i>	1	
1	In 35353	Nut MS21044-C3	1	
2	In 35353	Washer AN960-C10L	1	
3	71525.20	Mounting Bracket ***	1	
6	34968	Headset Panel Connector (LEMO)	1	
7	33622	Headphone Jack SWC 12B <i>Attaching Parts</i>	1	
5	33622	Round Washer SWC S1028	1	
9	31381	Round Washer SWC S1029 ***	1	
8	00196	Microphone Jack SWC S12B <i>Attaching Parts</i>	1	
5	33622	Round Washer SWC S1028	1	
9	31381	Round Washer SWC S1029 ***	1	

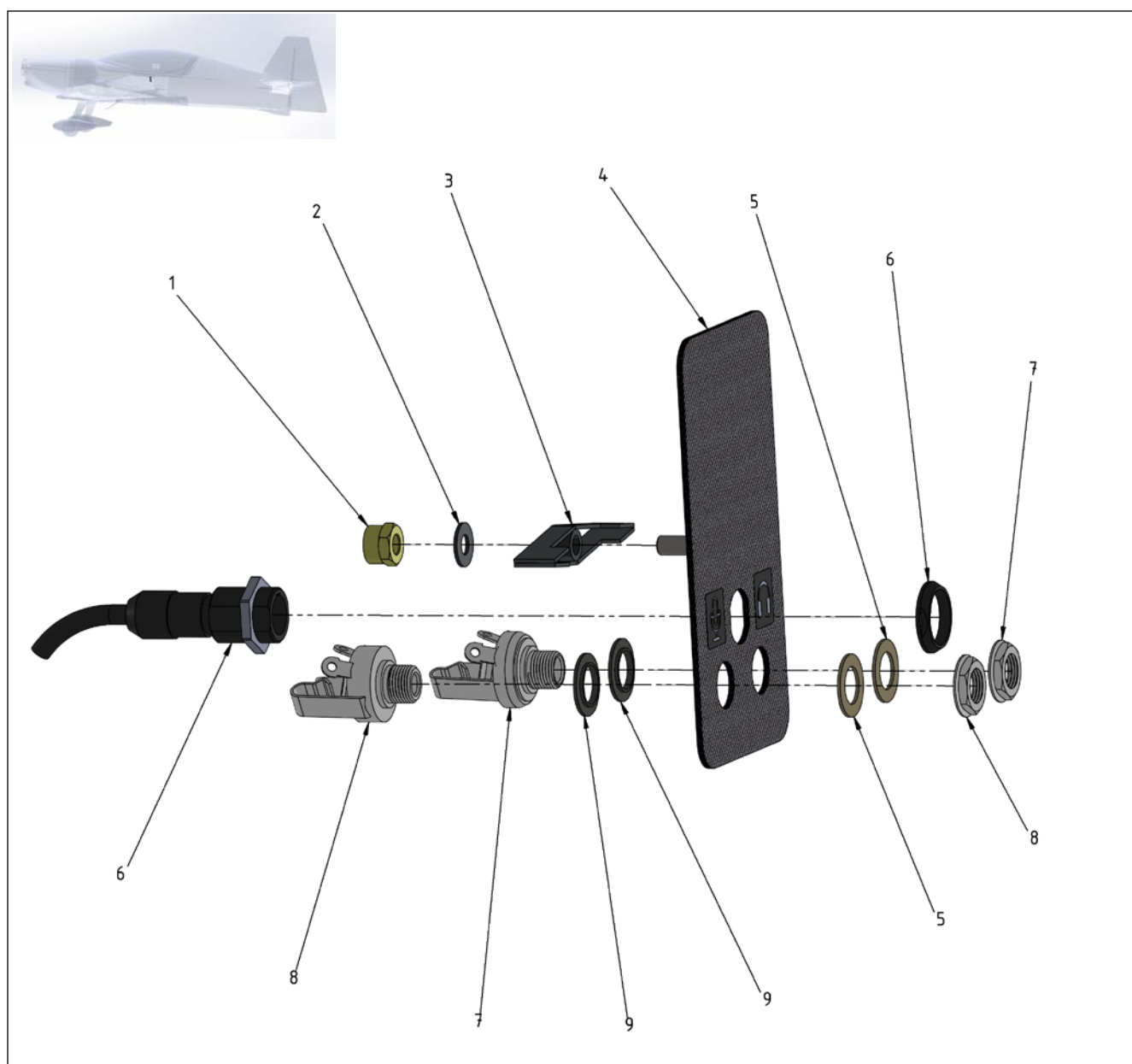


Figure 25-6 Control Panel (Pilot) – Bose LEMO

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Cabin Heating System (optional)

4	81623.10	Control Panel RH (with CHS) <i>Attaching Parts</i>	1	
1	In 35353	Nut MS21044-C3	1	
2	In 35353	Washer AN960-C10L	1	
3	71525.20	Mounting Bracket ***	1	
5	35538	Control Valve Servo Knob CVS-12V-kit	2	
6	33622	Headphone Jack SWC 12B <i>Attaching Parts</i>	1	
8	31382	Round Washer SWC S1028	1	
9	31381	Round Washer SWC S1029 ***	1	
7	00196	Microphone Jack SWC S12B <i>Attaching Parts</i>	1	
8	31382	Round Washer SWC S1028	1	
9	31381	Round Washer SWC S1029 ***	1	

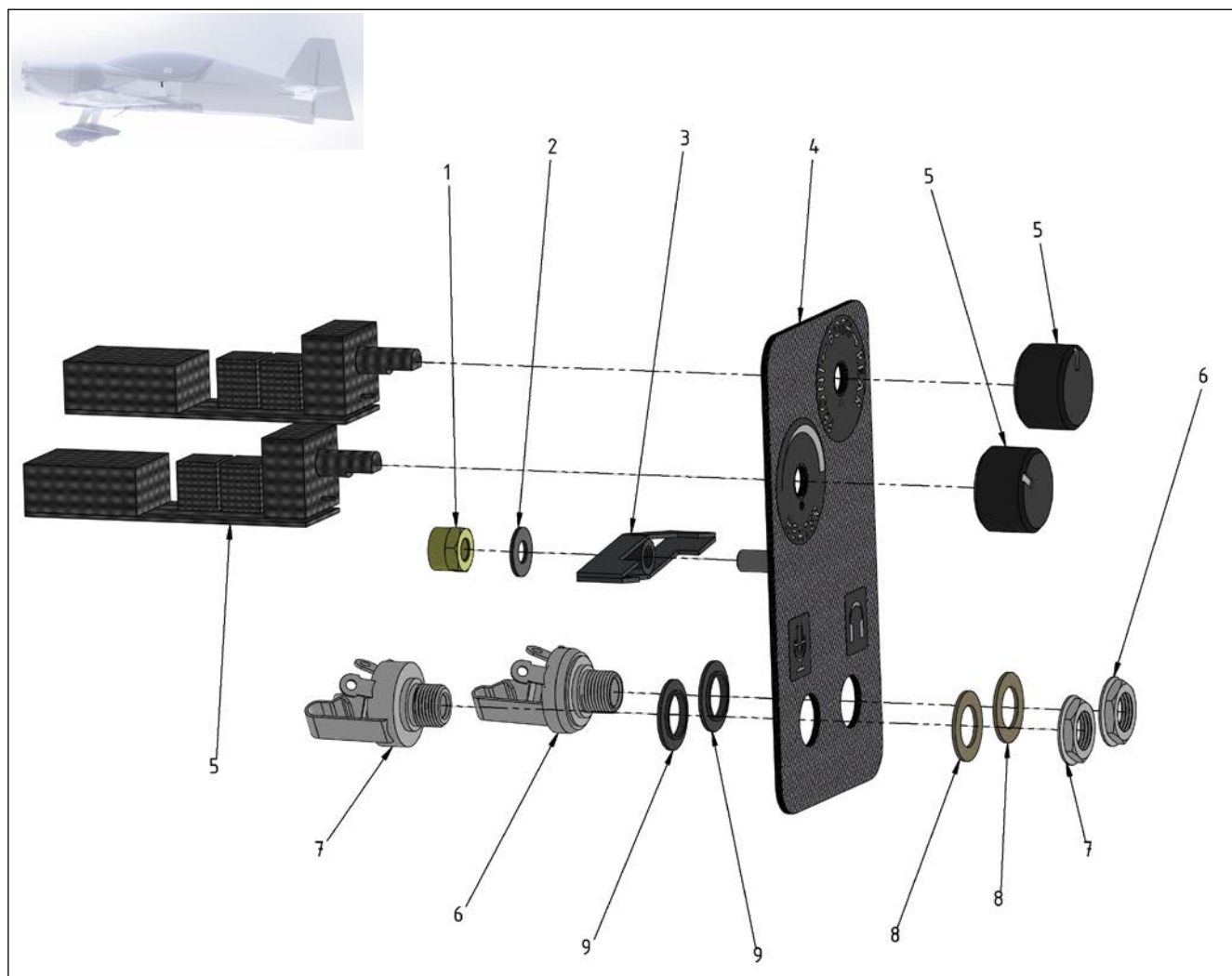


Figure 25-7 Control Panel (Pilot) – Cabin Heating System

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Control Panel Complete (optional)

4	81623.20	Control Panel RH (with CHS and LEMO) <i>Attaching Parts</i>	1	
1	In 35353	Nut MS21044-C3	1	
2	In 35353	Washer AN960-C10L	1	
3	71525.20	Mounting Bracket ***	1	
5	35538	Control Valve Servo Knob CVS-12V-kit	2	
6	34968	Headset Panel Connector (LEMO)	1	
7	33622	Headphone Jack SWC 12B <i>Attaching Parts</i>	1	
9	31382	Round Washer SWC S1028	1	
10	31381	Round Washer SWC S1029 ***	1	
8	00196	Microphone Jack SWC S12B <i>Attaching Parts</i>	1	
9	31382	Round Washer SWC S1028	1	
10	31381	Round Washer SWC S1029 ***	1	

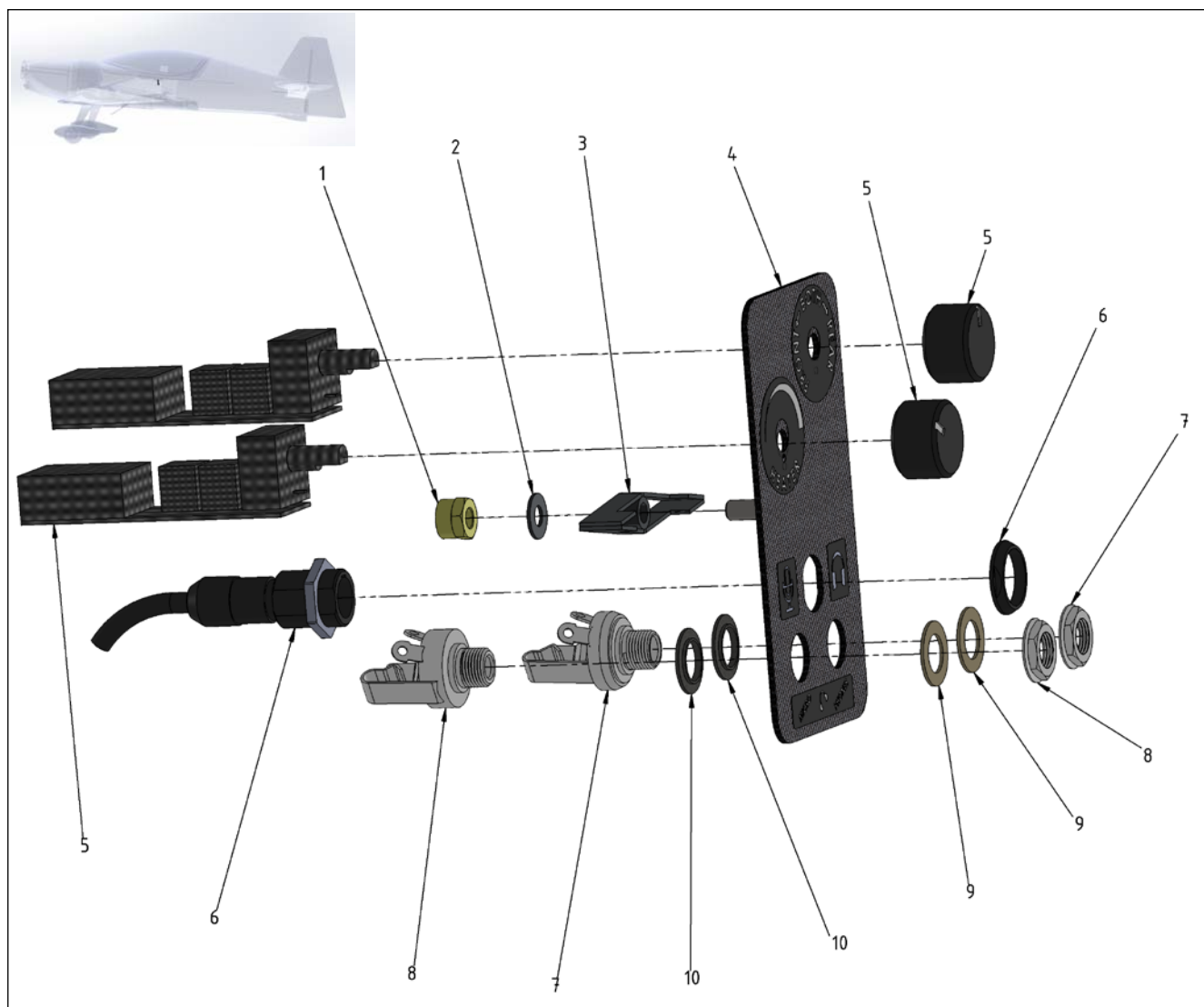


Figure 25-8 Control Panel (Pilot) – Complete

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Headset Jacks (Copilot)

1	34968	Headset Panel Connector (LEMO) (Optional)	1	
2	33622	Headphone Jack	1	
		<i>Attaching Parts</i>		
4	31382	Round Washer SWC S1028	1	

3	00196	Microphone Jack	1	
		<i>Attaching Parts</i>		
4	31382	Round Washer SWC S1028	1	

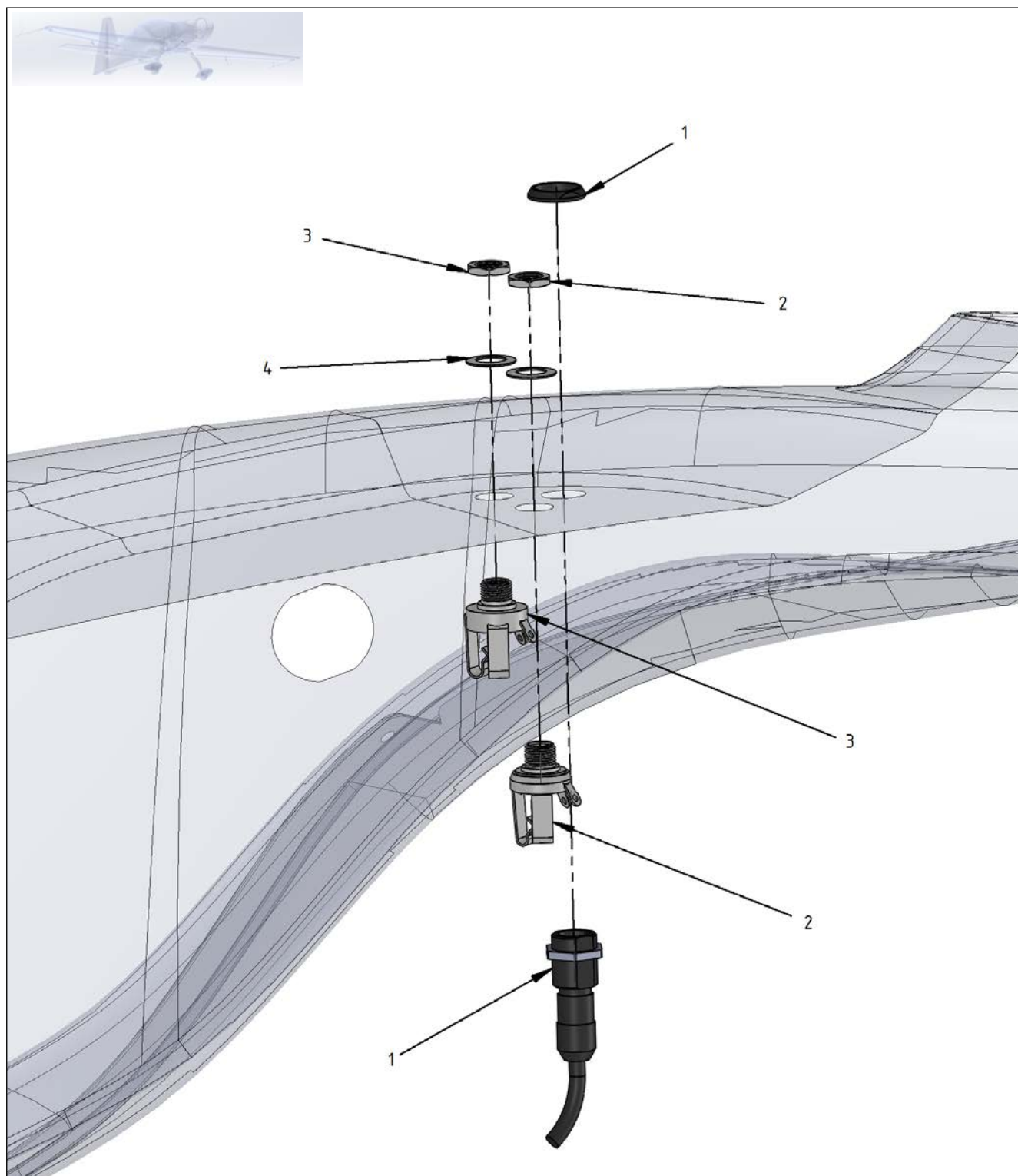


Figure 25-9 Headset Jacks (Copilot)

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Power Sockets

Pilot USB

1	35672	USB Charger <i>Attaching Parts</i>	1	
6	In 35672	Attachment USB Charger ***	1	
5	31505	Circuit Breaker 10 Amp <i>Attaching Parts</i>	1	
2	In 35105	Mounting Nut	1	
3	In 35105	Lockwasher	1	
4	In 35105	Keyway Washer ***	1	

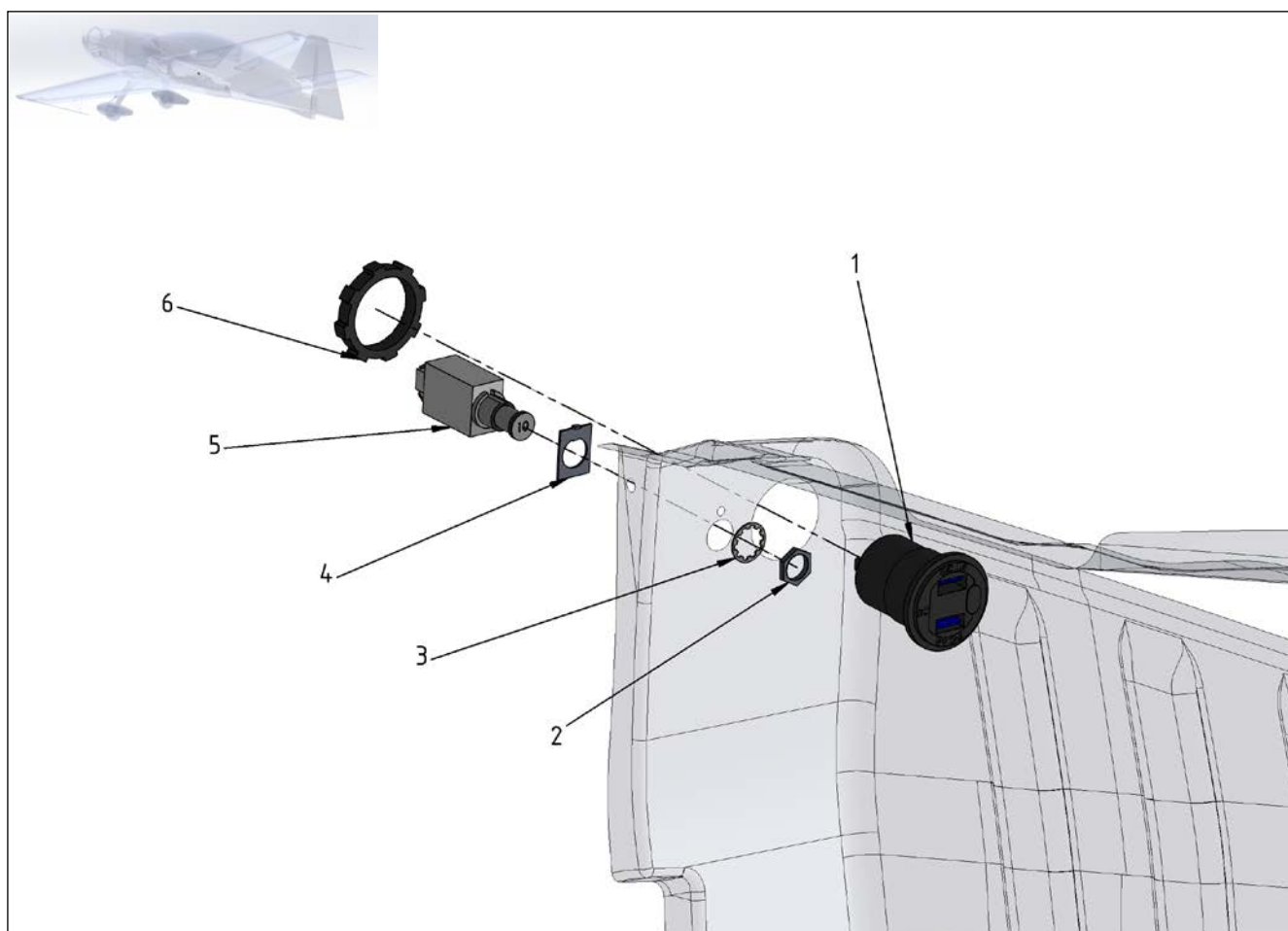


Figure 25-10 Power Sockets – Pilot USB

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Pilot 12VDC Socket

1	31494	12VDC Socket	1	
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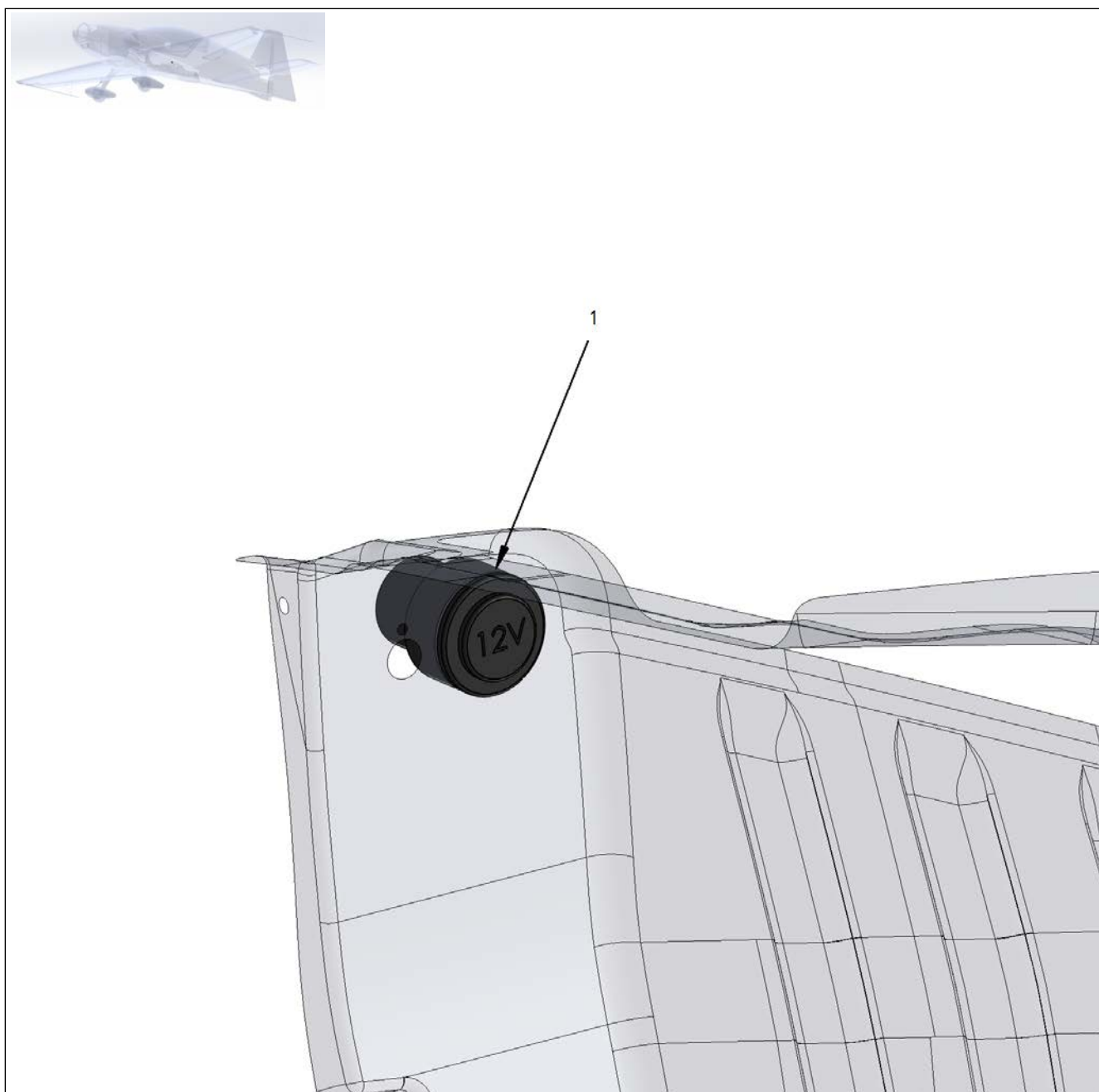


Figure 25-11 Power Socket – Pilot 12VDC Socket

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Copilot USB

2	35343	USB Charger	1	
		<i>Attaching Parts</i>		
1	In 35343	Bolt	2	

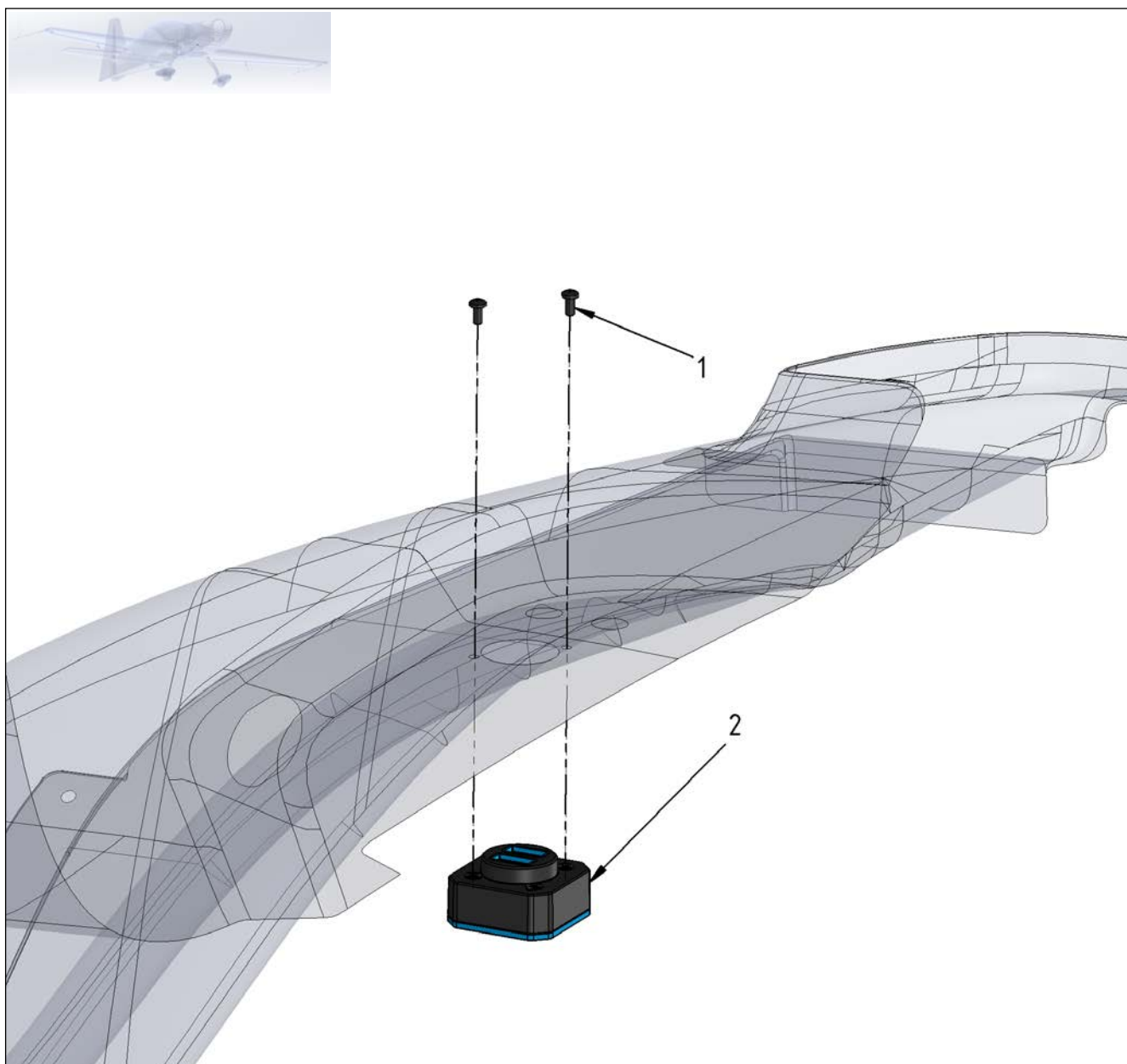


Figure 25-12 Power Sockets – Copilot USB

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Seat Belts

-	35360	Hooker Seat belt with optional second ratchet (front seat)	1	
-	35361	Hooker Seat belt with optional second ratchet (rear seat)	1	

Copilot Shoulder Harness

1	21471.00-LK	Bracket Copilot Shoulder Harness		
		<i>Attaching Parts</i>		
7	35099	Bolt AN4-15A	4	
8	35083	Washer AN960-416L	4	
9	35084	Washer DIN9021 6,4 x 18 x 1,6 mm A2	4	
10	32491	Nut AN365-428A	4	

13	21471.11-LK	Energy Absorption Element	2	
2	In 35246	Seat Belt Fitting AL1051-S	1	
		<i>Attaching Parts</i>		
3	70025	Bolt AN5H-5A	1	
4	25092	Washer AN960-516L	2	
5	00758	Bolt AN4-5A	1	
6	25090	Washer AN960-416	2	
11	NA4150	Nut AN364-428A	1	
12	70043	Nut AN364-524A	1	

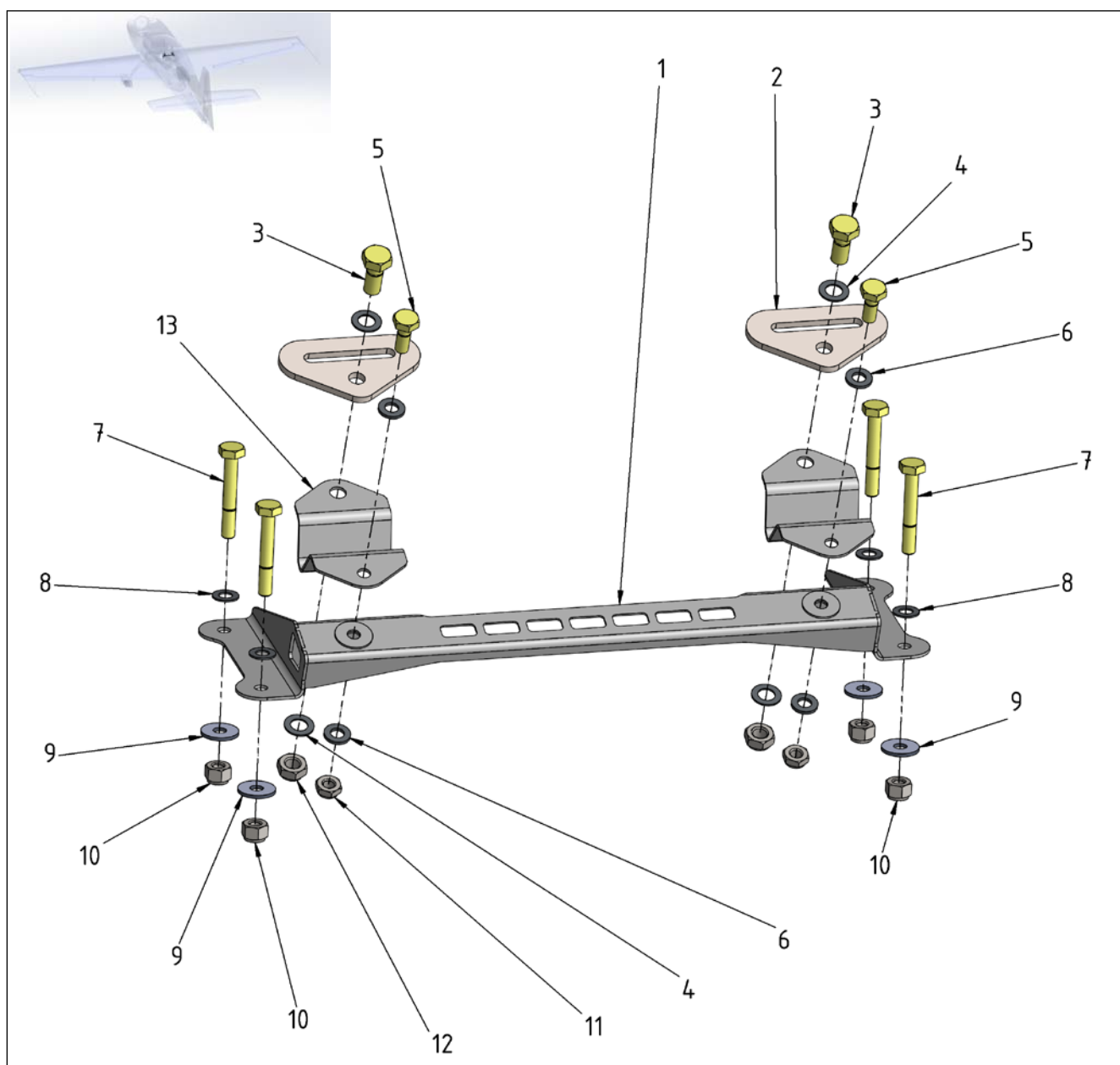


Figure 25-13 Copilot Shoulder Harness

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Copilot Seat and Crotch Belt Attachment

-	35360	Hooker Seat belt with optional second ratchet (front seat)	1	
-	35361	Hooker Seat belt with optional second ratchet (rear seat)	1	
3	In 35360	Seat Belt Anchor Fitting AL171 <i>Attaching Parts</i>	4	
1	70043	Nut MS21083N5	1	
2	25092	Washer AN960-516L	2	
4	700001	Bolt AN5-10A ***	1	
6	In 35360	Crotch Belt Fitting AL 176 (optional) <i>Attaching Parts</i>	1	
5	35084	Washer DIN9021 6,4 x 18 x 1,6 mm A2	2	
7	NA4150	Nut MS21083N4	1	
8	35428	Bolt AN4-7A ***	1	

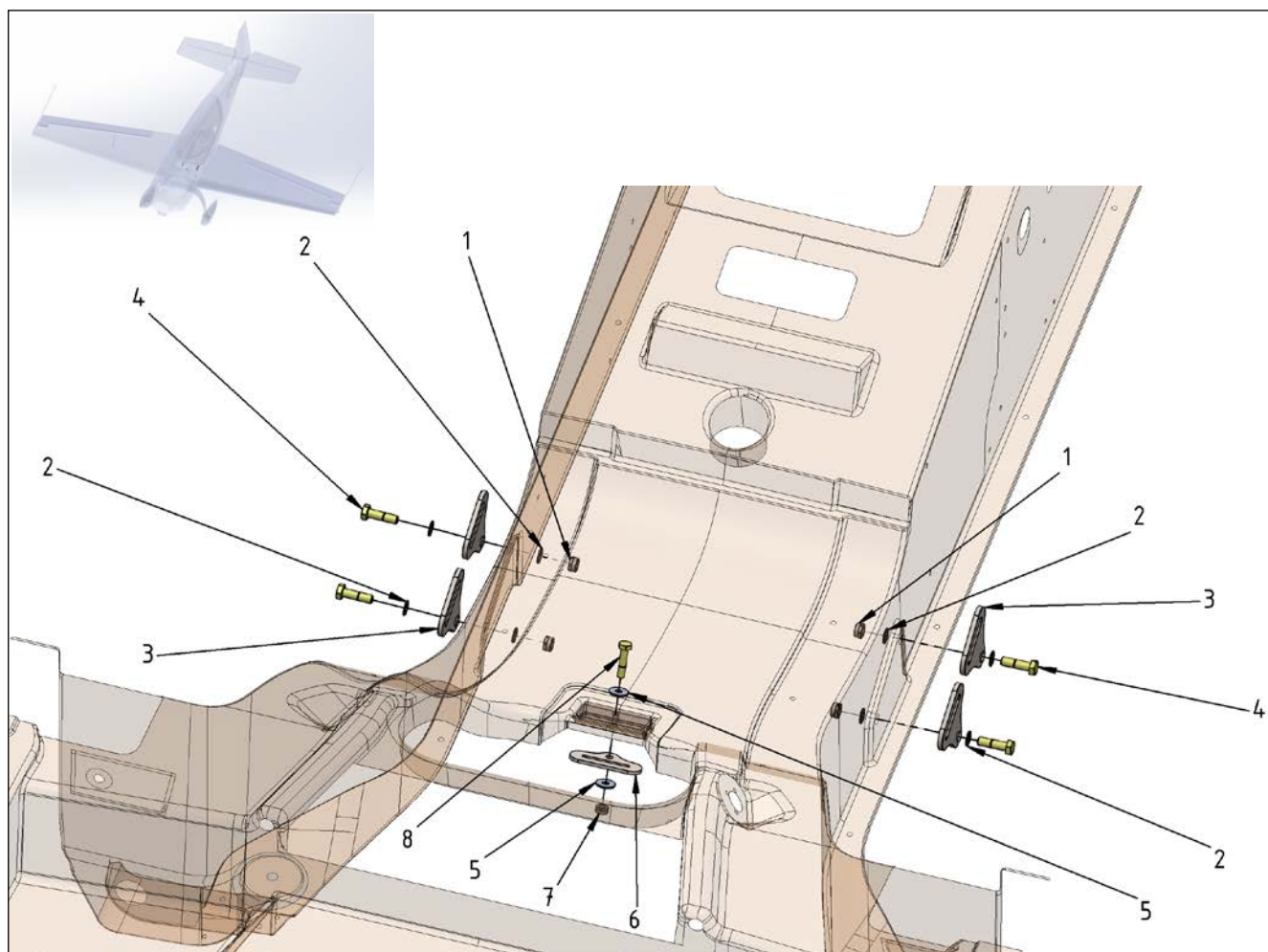


Figure 25-14 Copilot Seat and Crotch Belt Attachment

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Pilot Shoulder Harness

1	In 35361	Seat Belt Attach. AL1051-S	2	
		<i>Attaching Parts</i>		
2	71220.01	Bushing Harness	1	
3	35084	Washer DIN9021 6,4 x 18 x 1,6 mm A2	1	
4	35428	Bolt AN4-7A	1	

5	71220.03	Canopy Strap Attachment	1	

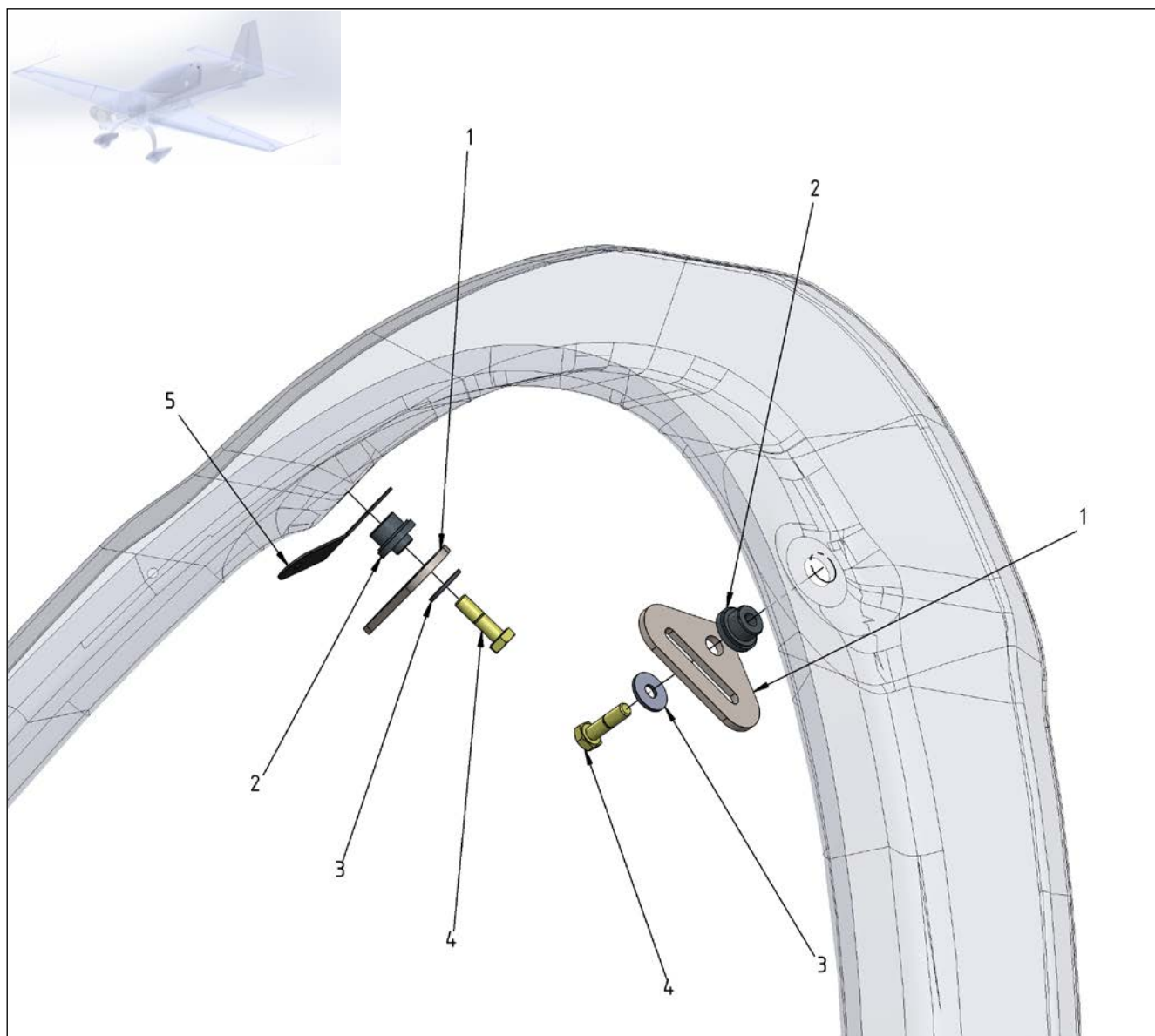


Figure 25-15 Pilot Shoulder Harness

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Pilot Seat and Crotch Attachments

1	In 35361	Seat Belt Anchor Fitting AL 171 <i>Attaching Parts</i>	4	
2	25092	WasherAN960-516L	2	
3	700001	Bolt AN5-10A	1	
4	700043	Nut MS21083N5 ***	1	
5	In 35361	Crotch Belt Fitting AL176 (optional) <i>Attaching Parts</i>	1	
6	NA4150	Nut MS21083N4	1	
7	35084	Washer DIN9021 6,4 x 18 x 1,6 mm A2	2	
8	78	Bolt AN4-11A ***	1	

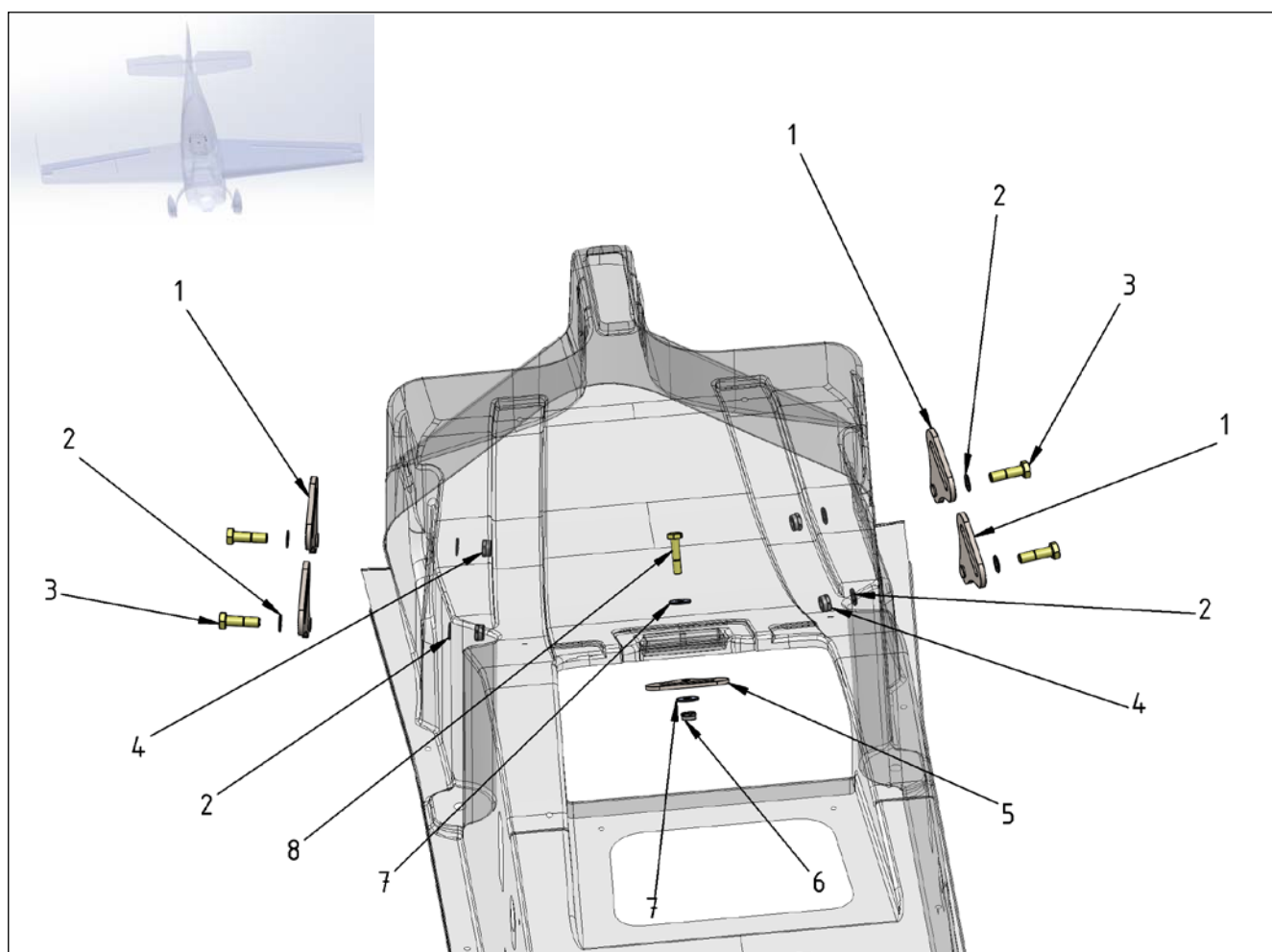


Figure 25-16 Pilot Seat and Crotch Attachments

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Baggage Compartment

1	71301.30-LV	Baggage Compartment Cover	1	
2	24806	. Quick Release Fastener 40S5-3S	1	
3	24803	. Guiding Ring 4002-GS	1	
4	01357	. Snap Ring R4G-2	1	
8	2D206.005	Baggage Compartment Strap Bracket	4	
7	33110	Strap DIN EN 12195-22	2	
<i>Attaching Parts</i>				
5	00589	Bolt AN3-4A	4	
6	149	Washer AN960-10L	4	

9	71302.10-FB	Baggage Top Net Assembly	1	
<i>Attaching Parts</i>				
6	149	Washer AN960-10L	4	
10	36213	Ball Head Screw #10-32 6mm	4	

11	71302.20-FB	Baggage Front Net Assembly	1	
<i>Attaching Parts</i>				
6	149	Washer AN960-10L	4	
10	36213	Ball Head Screw #10-32 6mm	2	
12	71302.30-VS	Screw Baggage Net	2	

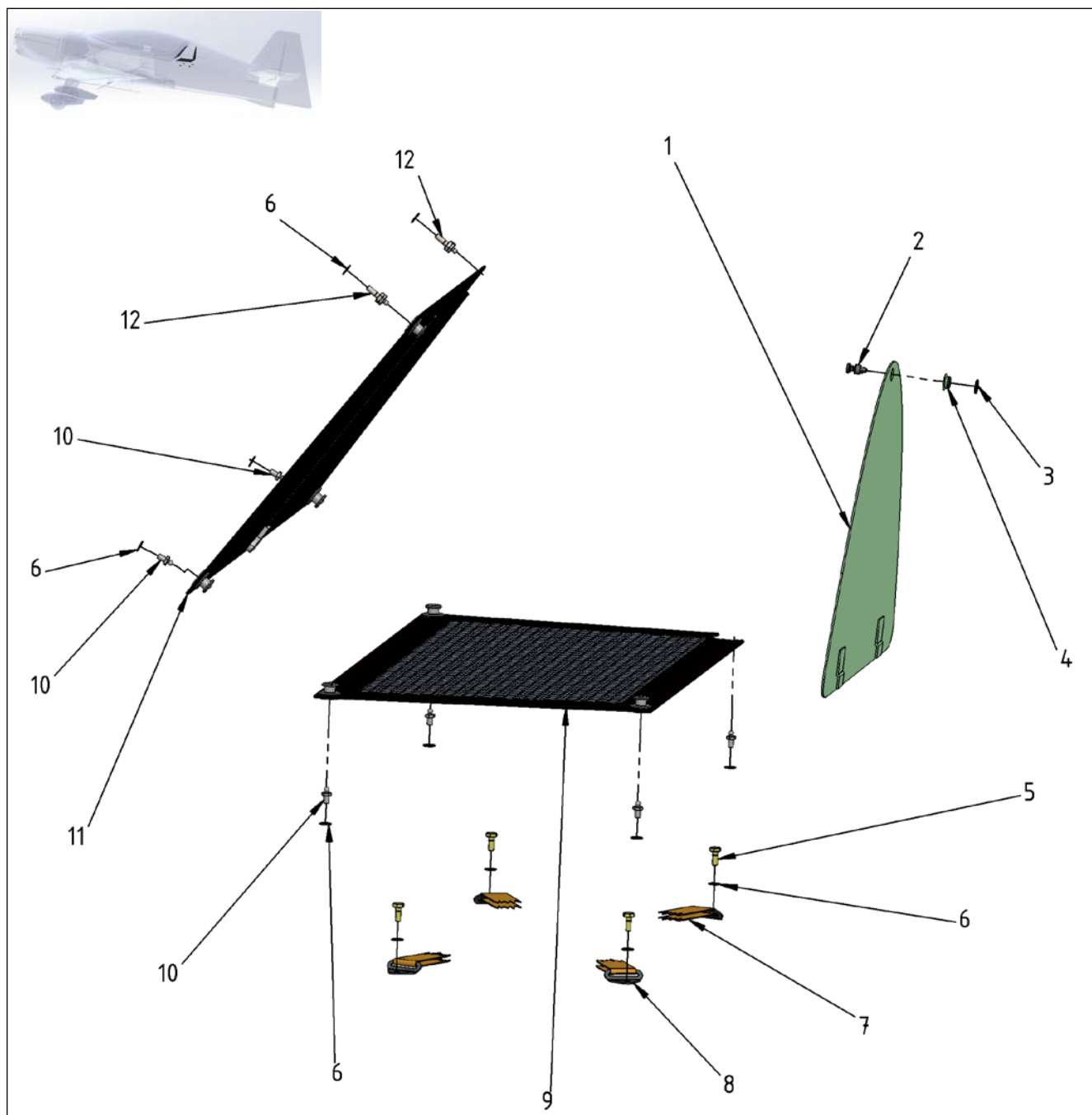


Figure 25-17 Baggage Compartment

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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First Aid Kit

1	71209.10	First Aid Kit	1	
		<i>Attaching Parts</i>		
2	00118	Bolt AN526C-1032R8	4	
3	32887	Washer	4	

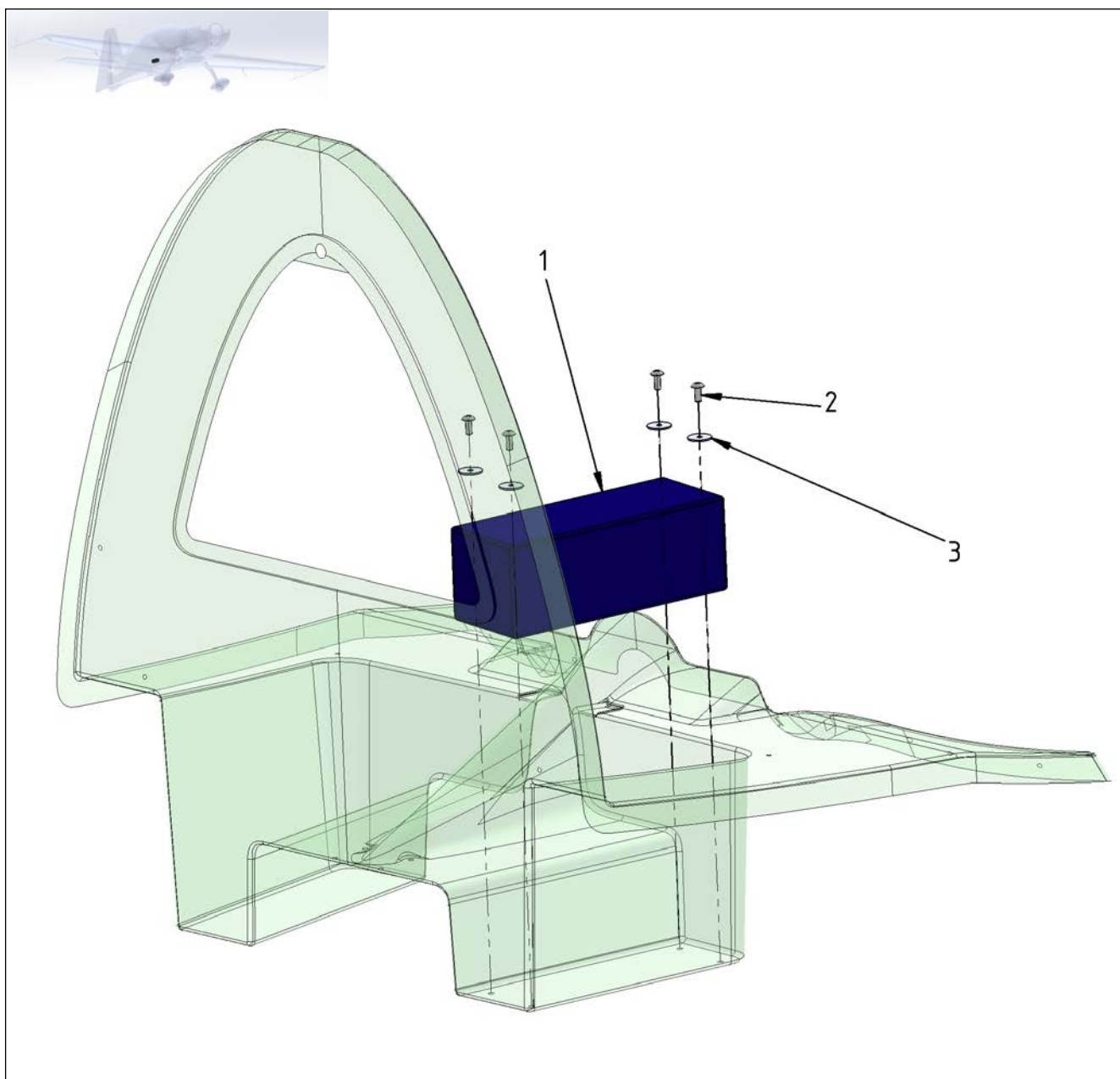


Figure 25-18 First Aid Kit

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27

Flight Controls

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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27-00

General

Control Rods

1	41501.20-FB	Control Rod Elevator No. 1	1
-	35129	. Nut AN316-5R	1
2	41501.30-VM	Control Rod Elevator No. 2 (pre-assembled)	1
-	35081	. Rod End M81935/1-04	2
-	35129	. Nut AN316-5R	4
3	46501.00-06-LK	Control Rod Aileron No. 6	2
-	00242	. Rod end male threaded	2
-	500015	. Nut DIN439 M8	2
4	4E501.50	Control Rod Aileron No. 2	2
-	00242	. Rod End Male Threaded GASW6	2
-	500015	. Nut DIN439 B M8	2
5	44501.00-08	Control Rod Aileron No. 8	2
-	00242	. Rod End Male Threaded GASW6	2
-	500015	. Nut DIN439 B M8	2
6	41501.10-FB	Control Rod Elevator No. 0	1

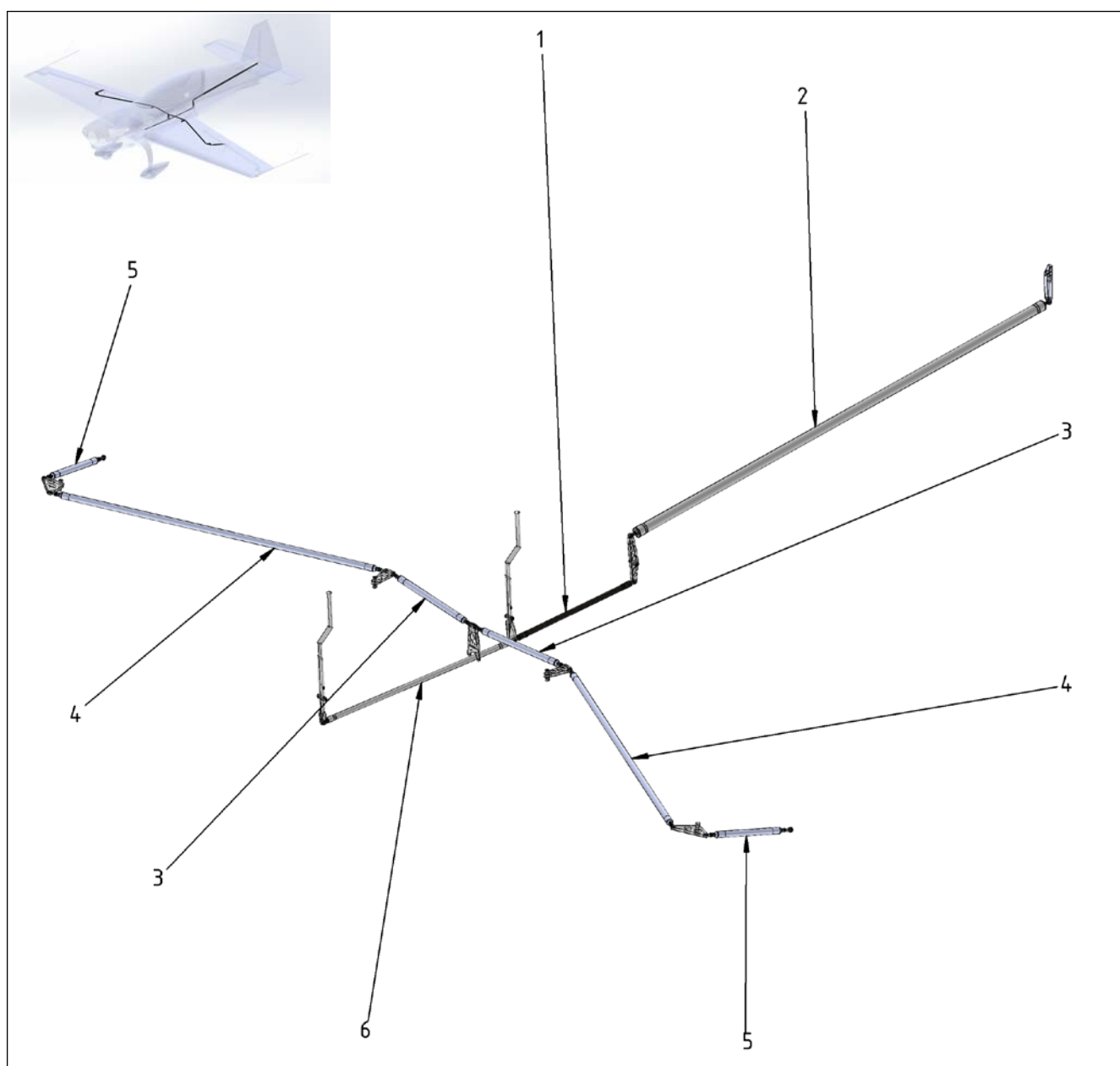


Figure 27-1 Control Rods

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Bell Cranks

Inner Aileron Bell Crank

1	4E202.002-LK	Inner Aileron Bell Crank	2	
		<i>Attaching Parts</i>		
2	00069	Bolt LN9355-06014	2	
3	00417	Washer DIN125-6,4	4	
4	NL4129	Castle Nut LN9345-06	2	
5	NL4147	Cotter Pin LN94-15015	2	
6	ND4171	Washer DIN125-5,3	2	
7	00076	Nut LN9348-05	1	
10	00042	Bolt LN9037-05065	1	

8	00953	. Pivot Bearing EN3289	2	
9	43206.001-01	. Spacer Sleeve 26mm	1	

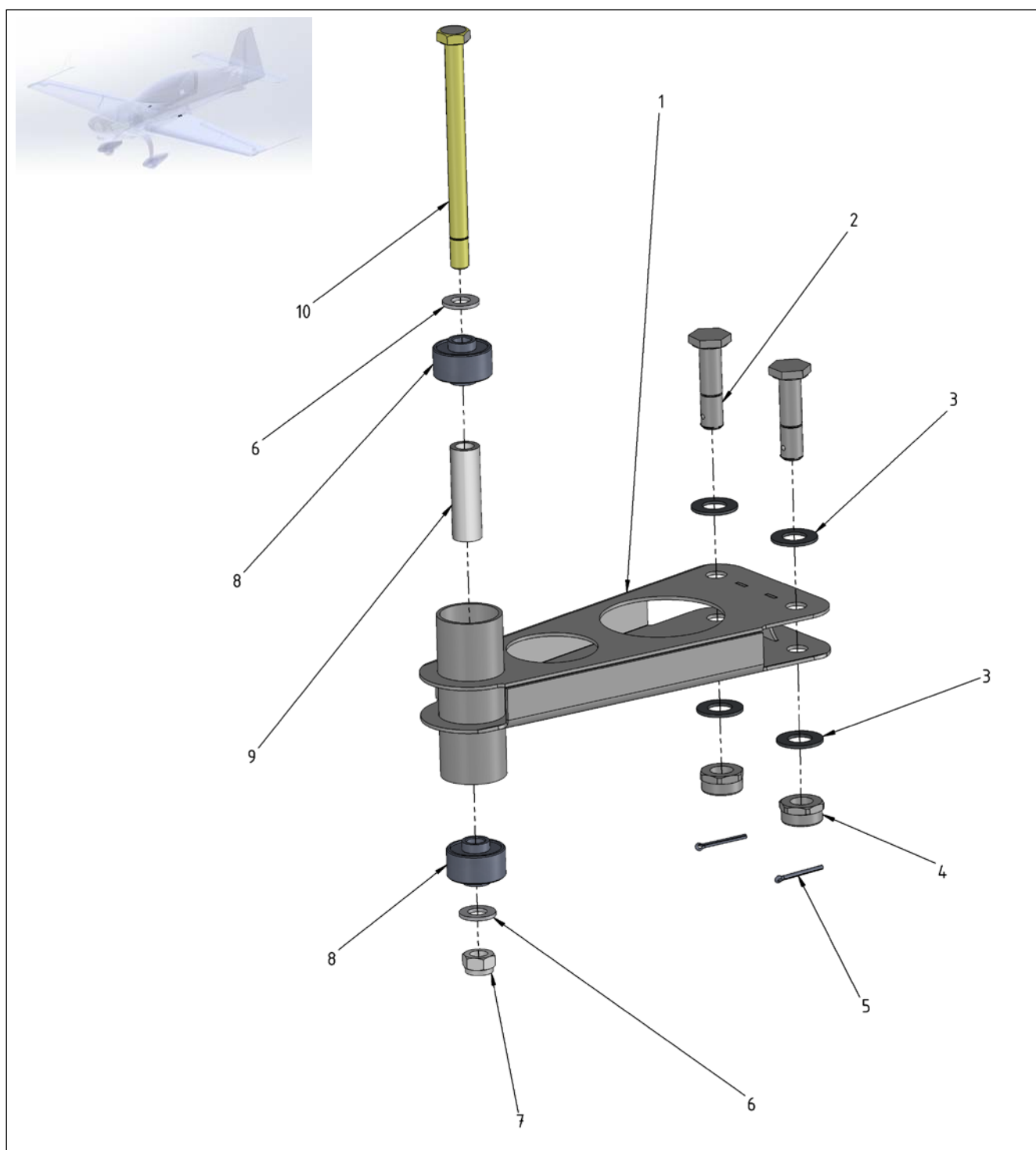


Figure 27-2 Inner Aileron Bell Crank

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Outer Aileron Bell Crank

1	43202.003-LK	Outer Aileron Bell Crank	2	
		<i>Attaching Parts</i>		
3	00042	Bolt LN9037-05065	1	
4	ND4171	Washer DIN125-5,3	2	
6	00069	Bolt LN9355-06014	2	
7	00417	Washer DIN125-6,4	4	
8	NL4129	Castle Nut LN9345-06	2	
9	NL4147	Cotter Pin LN94-15015	2	
10	00076	Nut LN9348-05	1	

2	00953	. Pivot Bearing EN3289	2	
5	43206.001-01	. Spacer Sleeve 26mm	1	

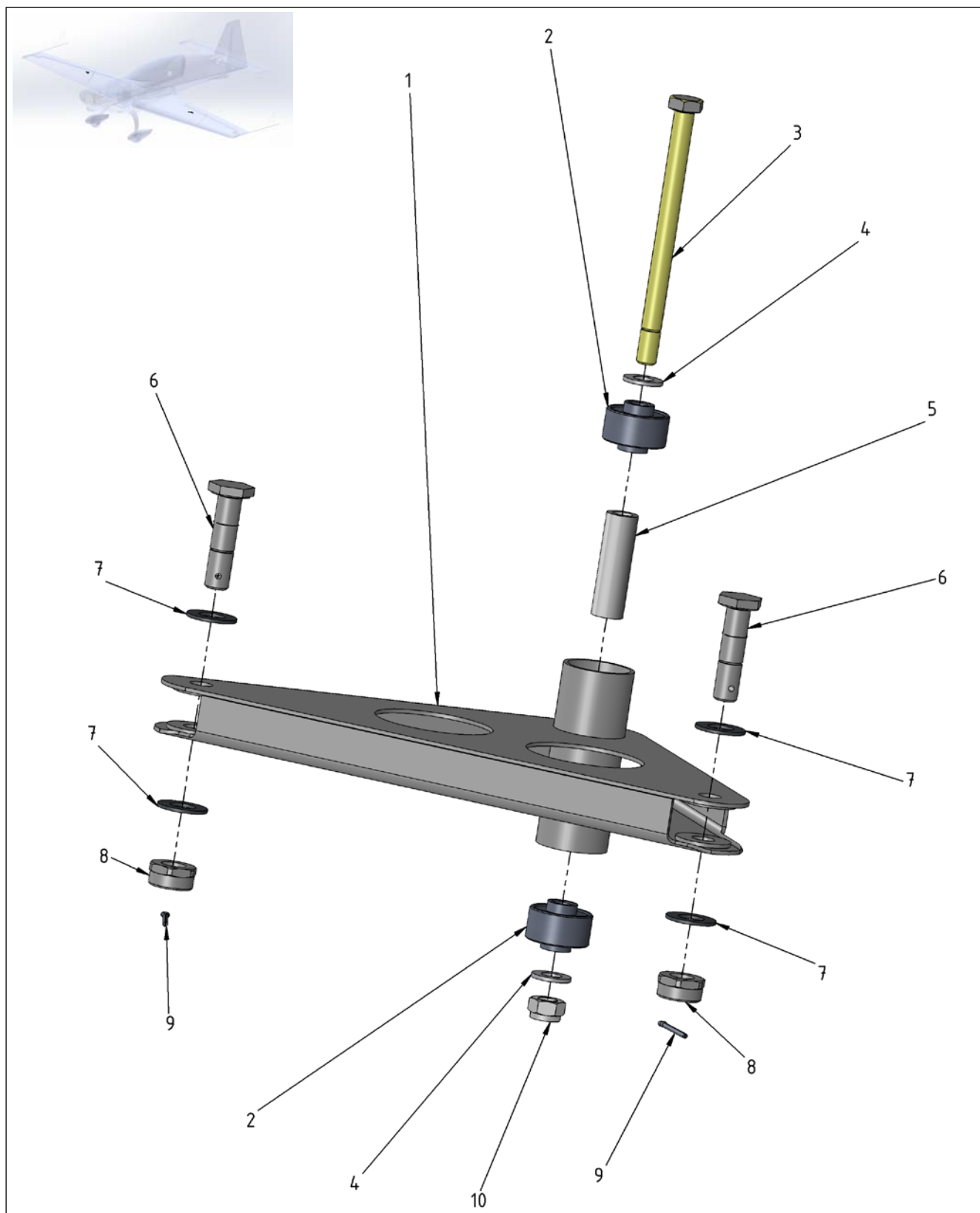


Figure 27-3 Outer Aileron Bell Crank

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Elevator Bell Crank

1	41201.00-LK	Elevator Bell Crank	1	
		<i>Attaching Parts</i>		
2	35083	Washer AN960-416L	4	
3	02414	Bolt AN4-10A	2	
5	21490.01	Flange Bushing Elevator Control	2	
6	04001	Nut MS21044N3	1	
7	149	Washer AN960-10L	2	
8	NA4150	Nut MS21083N4	2	
10	35095	Bolt AN3-26A	1	

4	35082	. Pivot Bearing MS27641-3	1	
9	41201.14	. Spacer Elevator	1	

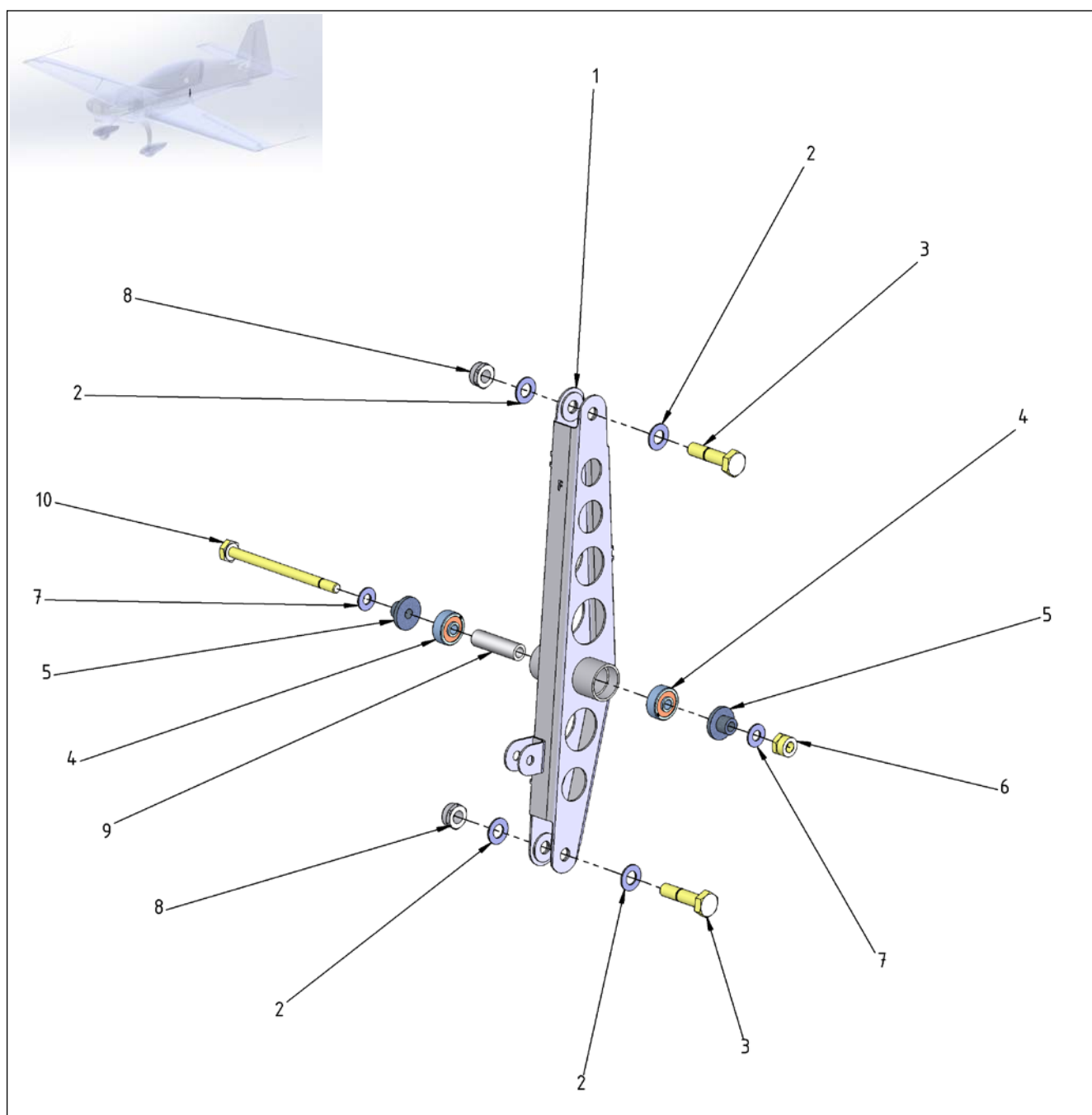


Figure 27-4 Elevator Bell Crank

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Front Control Stick

1	41670.00-LK	Control Stick FWD (painted)	1	
3	00844	Clamp MS21919WDG4	1	
<i>Attaching Parts</i>				
4	149	Washer AN960-10L	2	
5	01346	Cotter Pin LN94-20025	1	
6	00805	Castle Nut AN310C3	1	
8	00587	Bolt AN3-22	1	

2	35082	. Pivot Bearing MS27641-3	2	
7	41620.01	. Bearing Spacer	1	

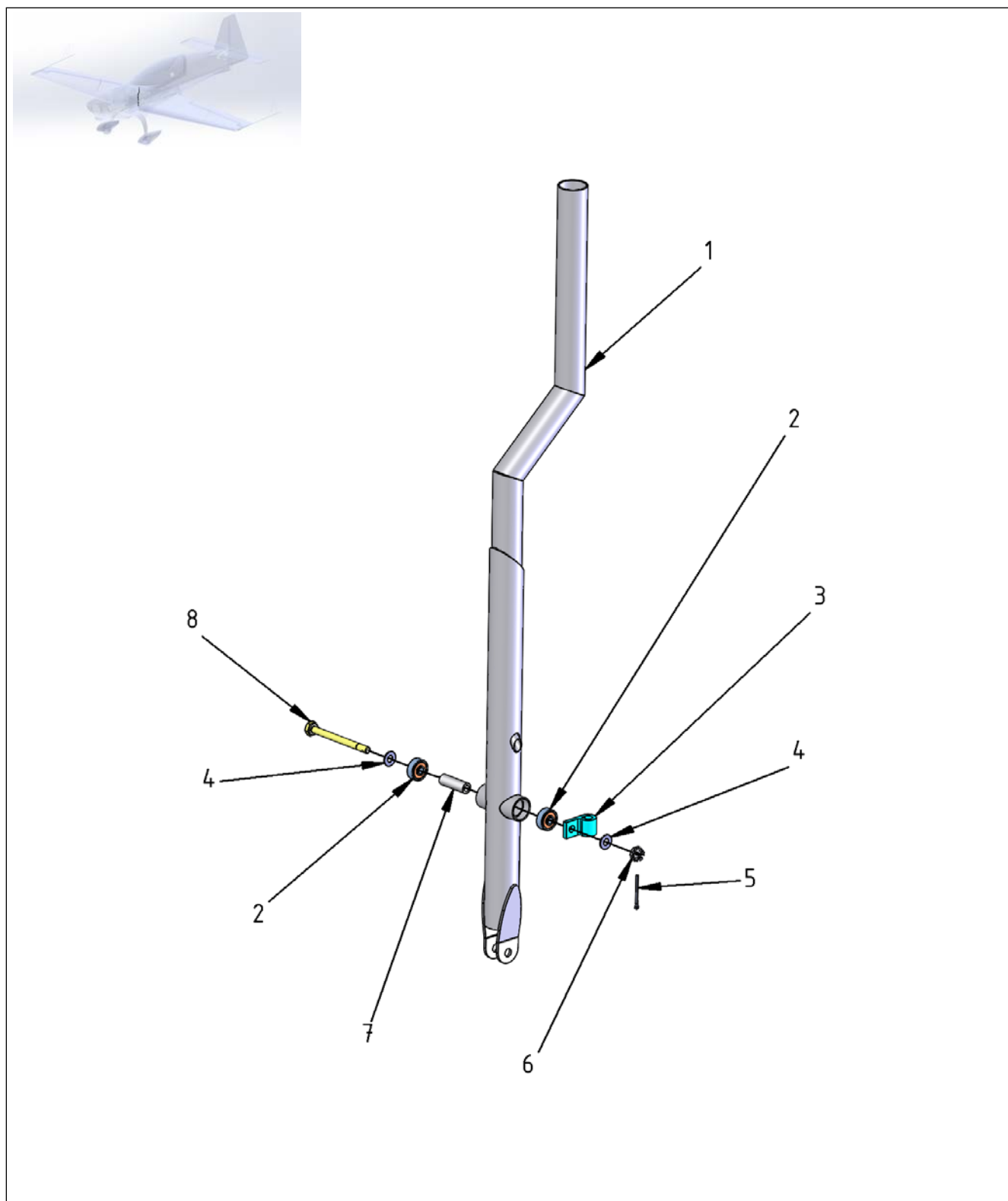


Figure 27-5 Front Control Stick

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Rear Control Stick

1	41620.00-LK	Control Stick AFT (painted)	1	
3	00844	Clamp MS21919WDG4	1	
<i>Attaching Parts</i>				
4	149	Washer AN960-10L	2	
5	01346	Pin LN94-20025	1	
6	00805	Nut AN310C3	1	
8	00587	Bolt AN3-22	1	

2	35082	. Bearing MS27641-3	2	
7	41620.01	. Bearing Spacer	1	

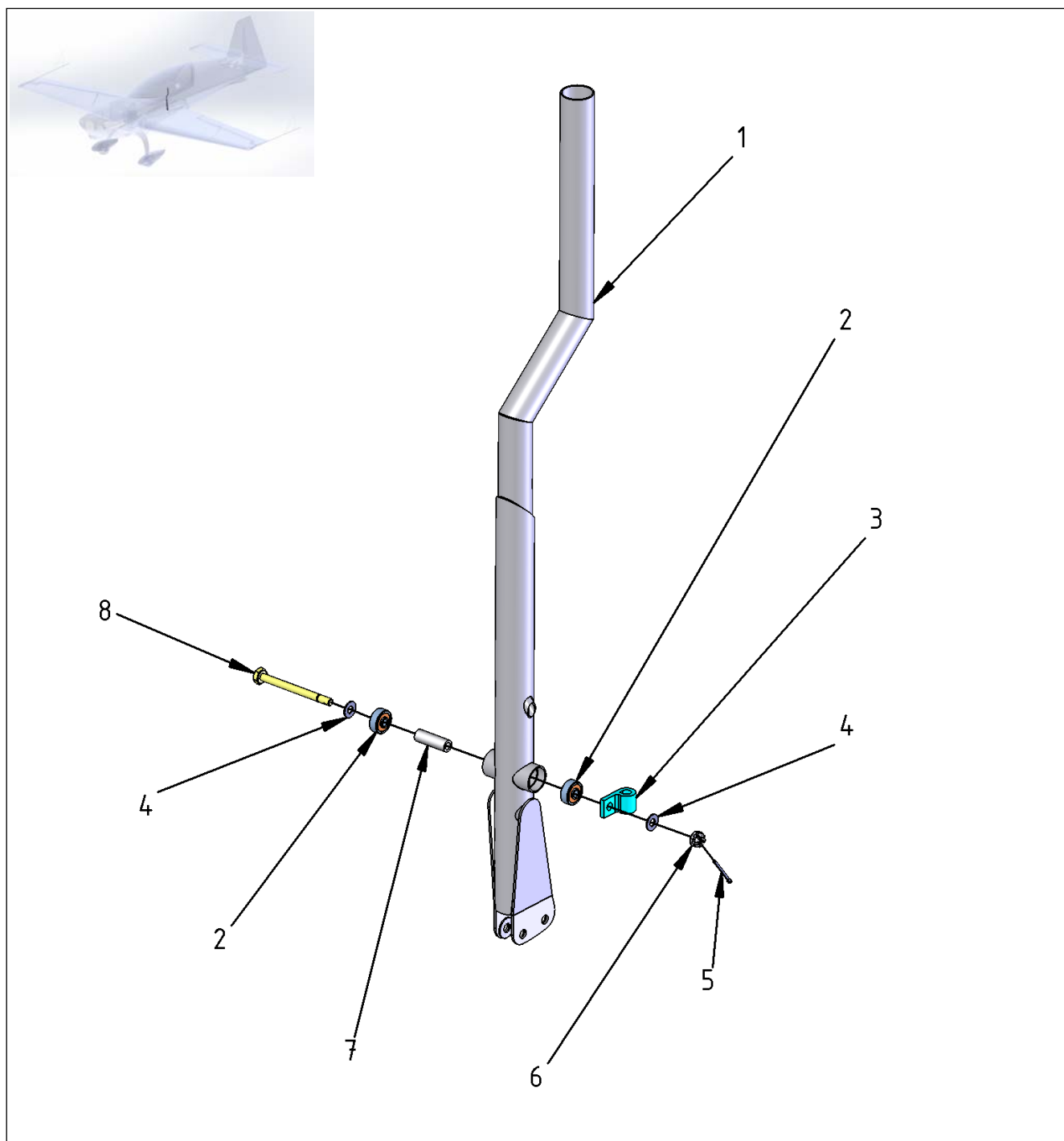


Figure 27-6 Rear Control Stick

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Control Stick Covers

Pilot Standard Configuration

-	41622.10.KBS	Parts Set Stick Cover Assembly	1	
1	41622.11	. Grip Cover Plate	1	
2	35347	. Bolt FCMPS0204	2	
3	33274	. Trim Switch / Slide Switch	1	
4	33212	. Switch Button Black	1	
5	41601.10	Stick Grip Covered	1	

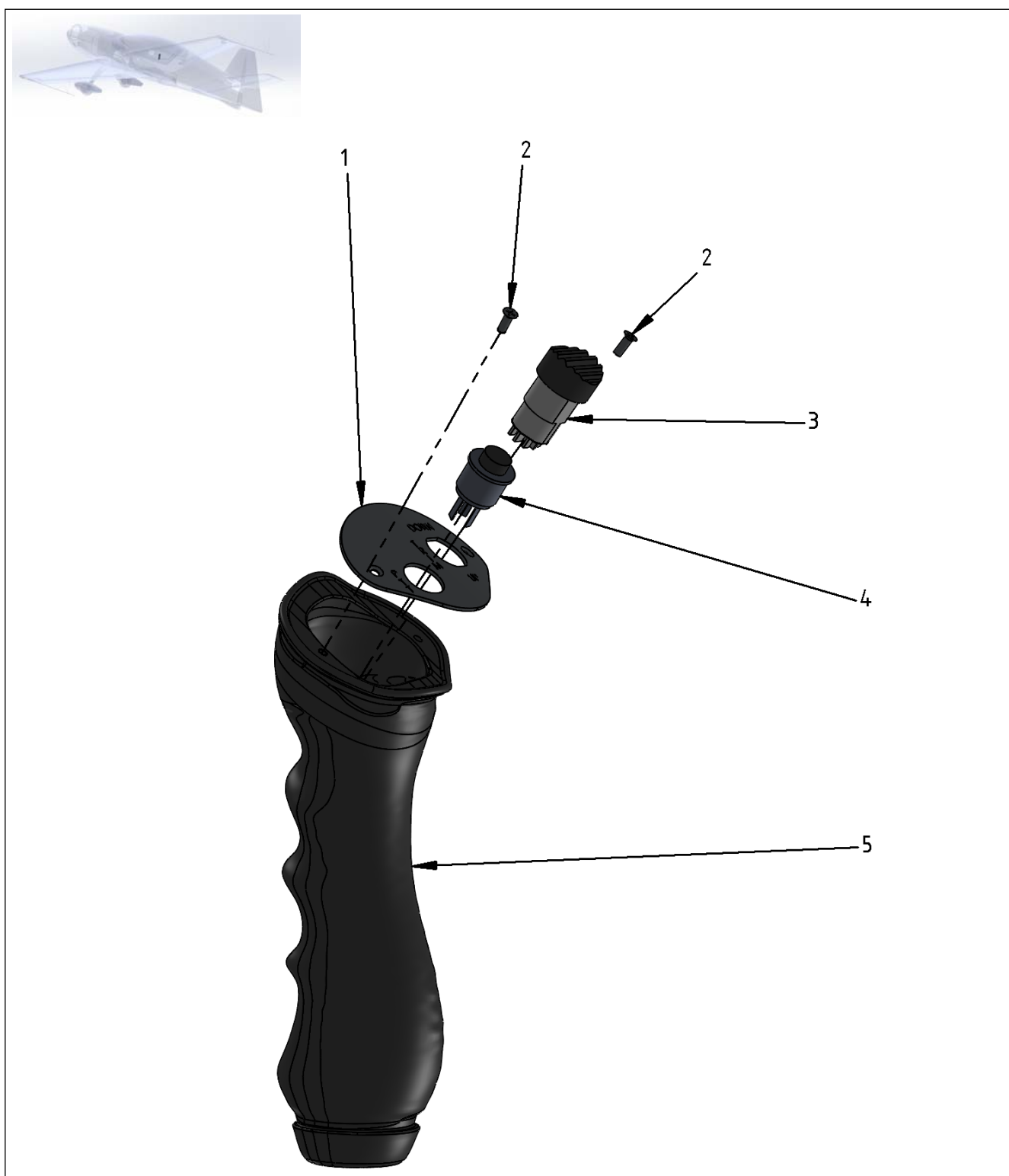


Figure 27-7 Control Stick Covers – Pilot Standard Configuration

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Pilot Option Autopilot (Optional)

-	81216.90.KBS	Parts Set Stick Cover Assy AP	1	
1	81216.91	. Grip Cover Plate AP	1	
2	35347	. Bolt FCMPS0204	2	
3	34880	. Switch Button Red	1	
4	33274	. Trim Switch / Slide Switch	1	
5	33212	. Switch Button Black	1	
6	41601.10	Stick Grip Covered	1	

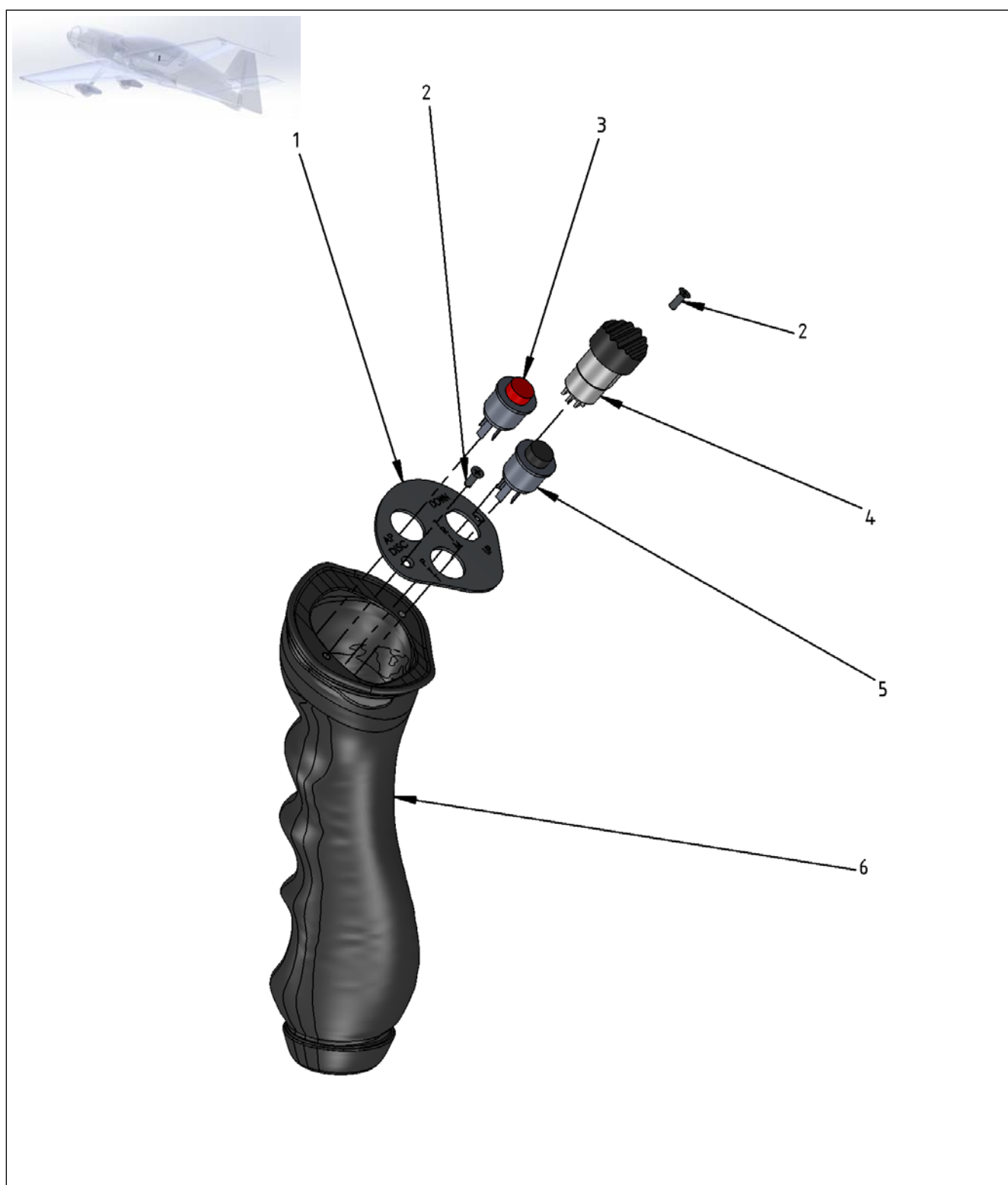


Figure 27-8 Control Stick Covers - Pilot Option Autopilot

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Copilot Control Stick Cover

-	41672.10.KBS	Parts Set Stick Cover Assembly FWD	1	
1	41672.11	. Grip Cover Plate FWD	1	
2	35347	. Bolt FCMPS0204	2	
3	33212	. Switch Button Black	1	
4	41601.10	Stick Grip Covered	1	



Figure 27-9 Copilot Control Stick Cover

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Torque Tube

Front Part

1	41661.00-LK	Torque Tube Front (painted)	1	
12	41632.01	Bearing Bracket Front	1	
<i>Attaching Parts</i>				
6	NA4099	Splint MS24665-132	1	
7	02457	Nut AN310-4	1	
8	01227	Washer DIN9021 6,4 x 18 x 1,6 mm	1	

2	35092	Bolt MS90726-12	1	
<i>Attaching Parts</i>				
13	35133	Nut AN316-4R	1	

5	35080	Bearing MS27641-10, KP10A	1	
11	41632.02	Bearing Cover Front	1	
<i>Attaching Parts</i>				
3	88	Nut MS21083N3	3	
4	31583	Washer AN960-10	3	
9	01703	Bolt AN3-7A	3	
10	149	Washer AN960-10L	3	

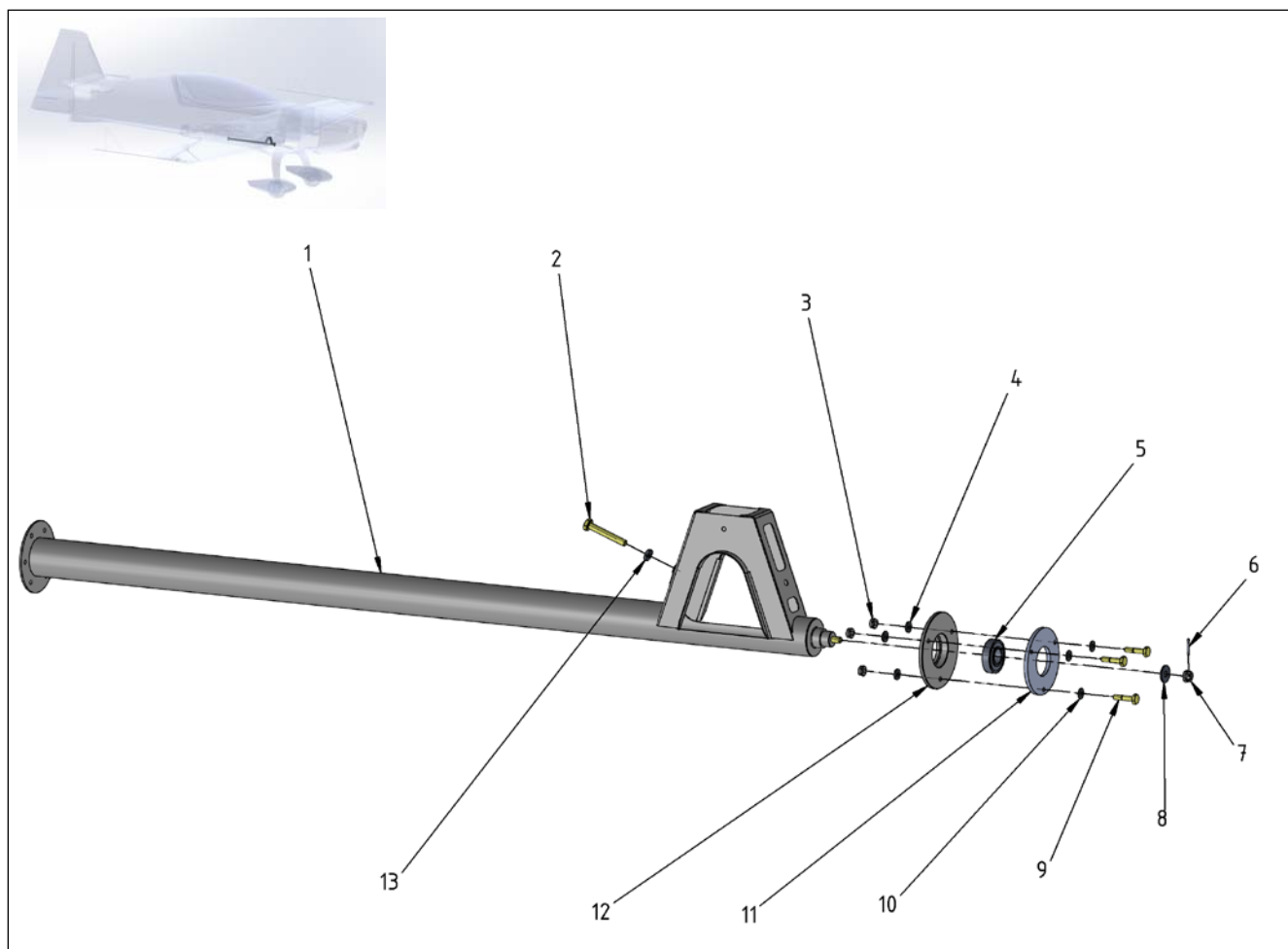


Figure 27-10 Torque Tube – Front Part

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
Rear Part				
3	41631.00	Bearing Flange rear	1	
		<i>Attaching Parts</i>		
1	00204	Bolt AN3-5A	5	
2	31583	Washer AN960-10	5	
14	88	Nut MS21083N3	2	
15	35087	Washer AN970-3	2	

4	35147	Thin Section Bearing Ø 3"	1	
5	41610.02	TT bearing support top	1	
16	41610.01	TT bearing support bottom	1	
		<i>Attaching Parts</i>		
6	31528	Bolt MS35206-226	5	

11	41640.00-LK	Counter Plate with Aileron stops	1	
		<i>Attaching Parts</i>		
2	31583	Washer AN960-10	2	
7	88	Nut MS20364-1032	1	
8	700014	Washer AN960-516	1	
9	41201.14	Spacer Elevator	1	
10	00593	Bolt AN3-14A	1	

12	35133	. Nut AN316-4R	2	
13	35209	. Bolt MS90726-12	2	
17	41611.00-LK	Torque Tube Rear (painted)	1	
		<i>Attaching Parts</i>		
1	00204	Bolt AN3-5A	2	
2	31583	Washer AN960-10	4	
12	31533	Nut AN316-4R	1	
13	35209	Bolt MS90726-12	1	
14	88	Nut MS21083N3	2	

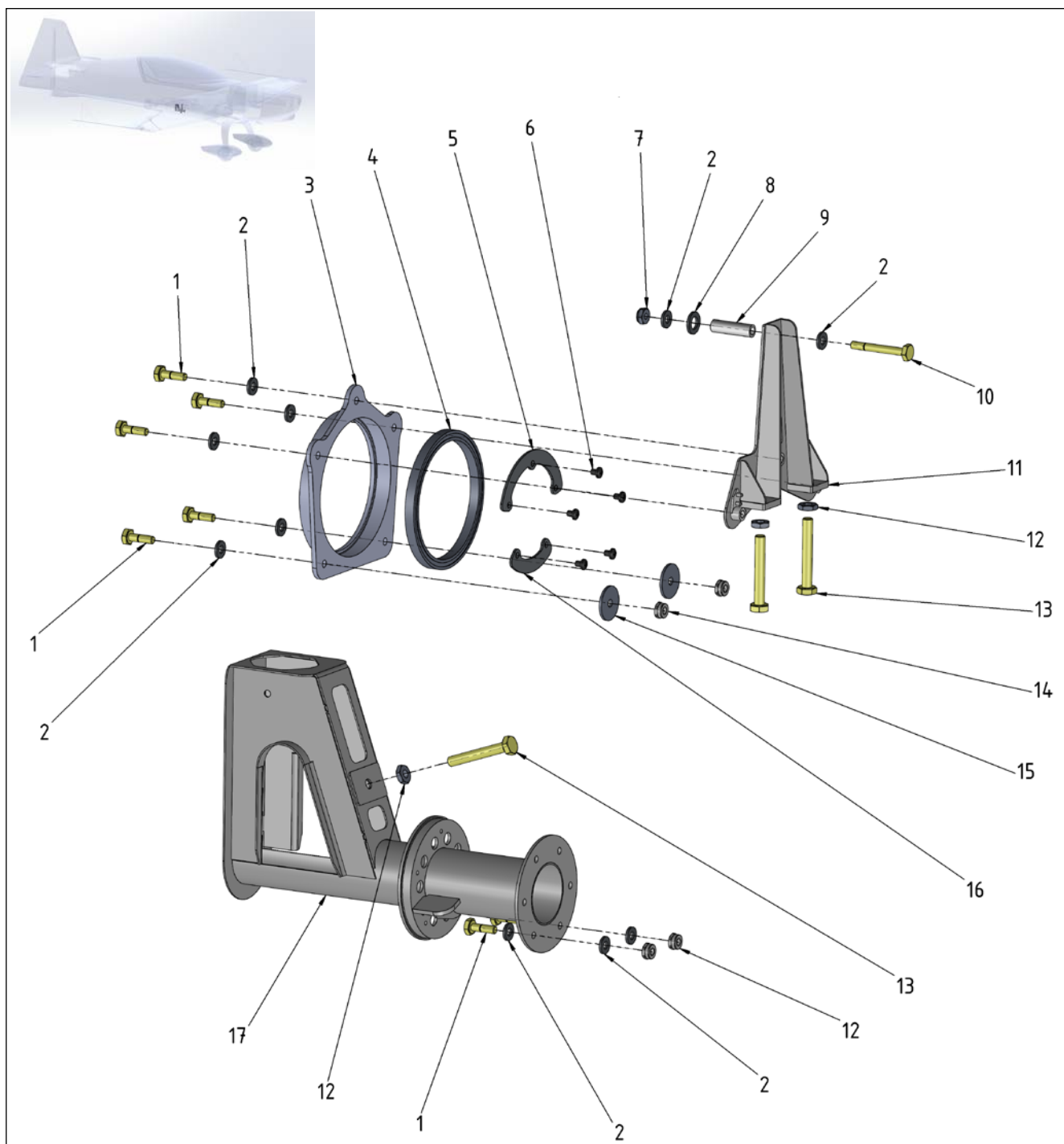


Figure 27-11 Torque Tube – Rear Part

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Torque Tube Bracing

1	21425.00	Torque Tube Bracing <i>Attaching Parts</i>	1	
2	00589	Bolt AN3-4A	3	
3	149	Washer AN960-10L	3	
4	NA4126	Washer An960C-10L	3	
5	88	Nut MS21083N3	3	

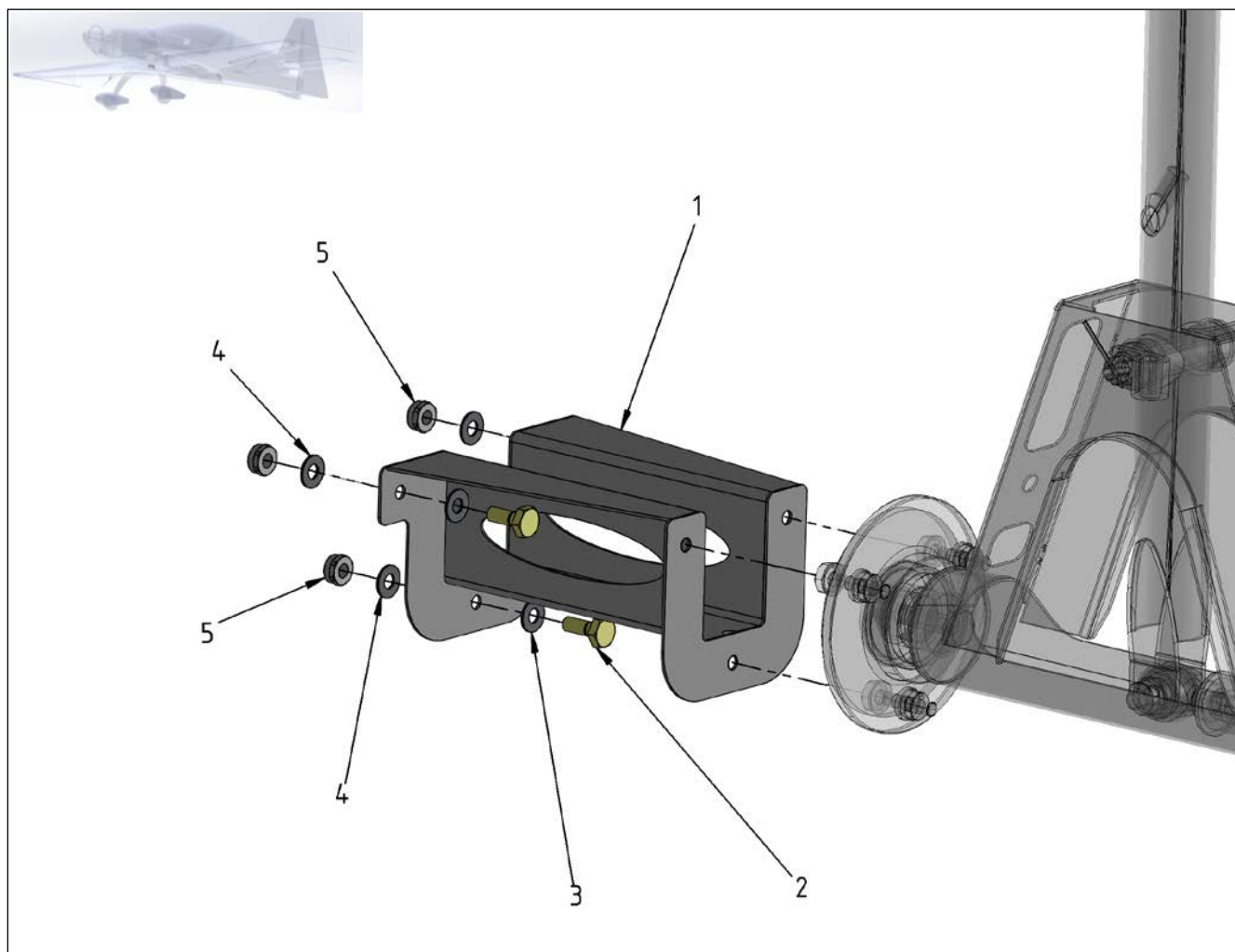


Figure 27-12 Torque Tube Bracing

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Aileron Drive Lever

1	416450.00-LK	Aileron Drive Lever	1	
		<i>Attaching Parts</i>		
2	00937	Washer DIN 988 6 x 12 x 0,5 mm	2	
3	00048	Bolt LN9037-06028	2	
4	149	Washer AN960-10L	8	
5	88	Nut MS21083N3	4	
6	00204	Bolt AN3-5A	4	
7	01228	Washer DIN 988 6 x 12 x 1,2 mm	2	
8	00077	Nut LN 9348-06	2	

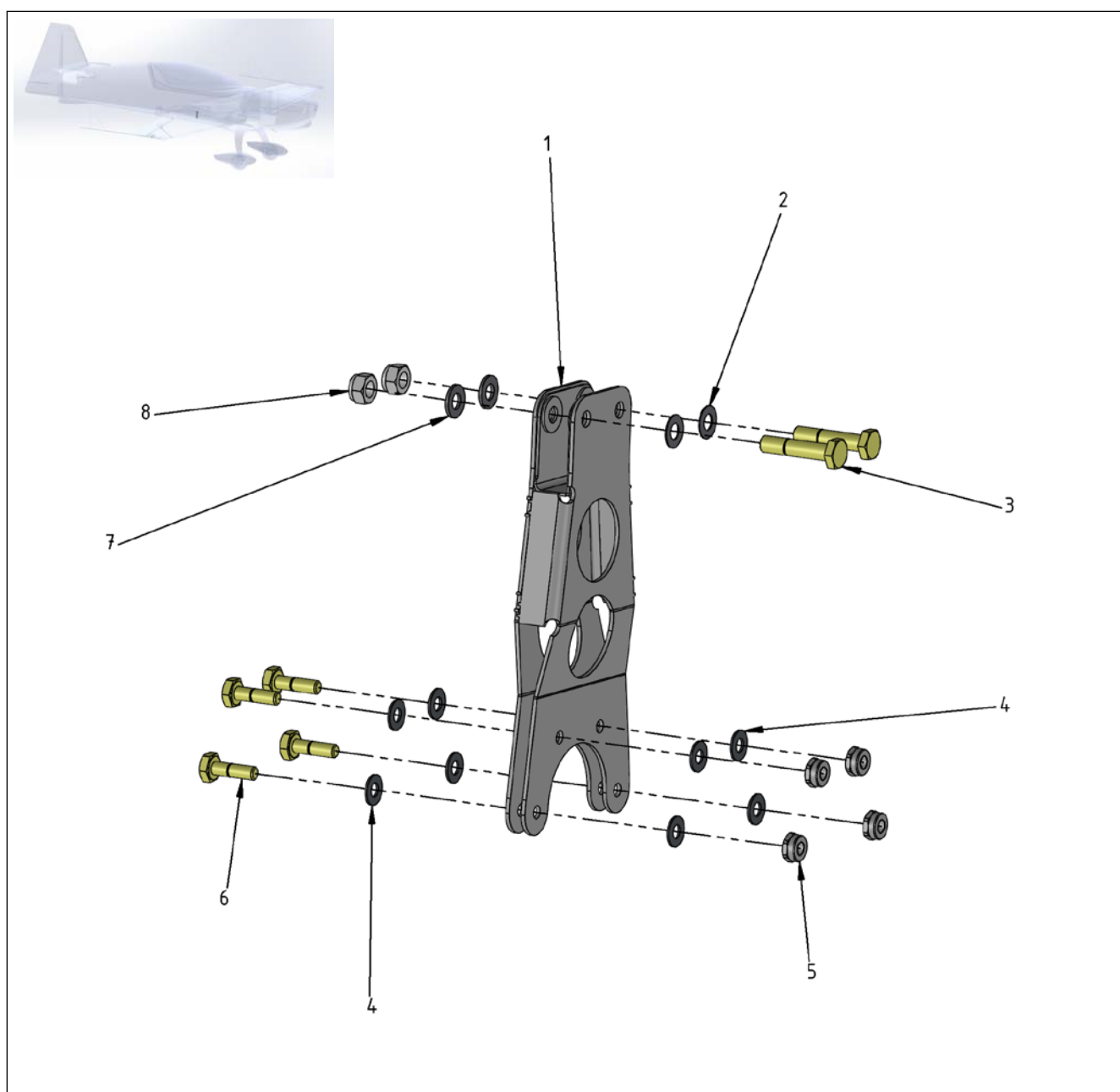


Figure 27-13 Aileron Drive Lever

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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27-10 Aileron Control

Ailerons

Aileron (improved) LH

1	11301.00-01-LV	Aileron LH (prepared for painting)	1	≥055
2	1C105.004	. Bearing Block Aileron	4	
		<i>Attaching Parts</i>		
3	00076	Nut LN9348-05	2	
4	00416	Washer DIN125 5,3 x 10 x 1,0 mm	2	

5	11302.00-LV	. Aileron Drive Lever (coated)	1	
		<i>Attaching Parts</i>		
3	00076	Nut LN9348-05	4	
4	00416	Washer DIN125 5,3 x 10 x 1,0 mm	5	
6	00118	Bolt AN526C-1032R8	1	

7	NK0005	. Bearing EN3289	1	
8	1C105.16	. Bearing Housing	1	
9	05016	. Bolt LN9037-05016	3	
10	11301.81	. Trim Tab Aileron	1	

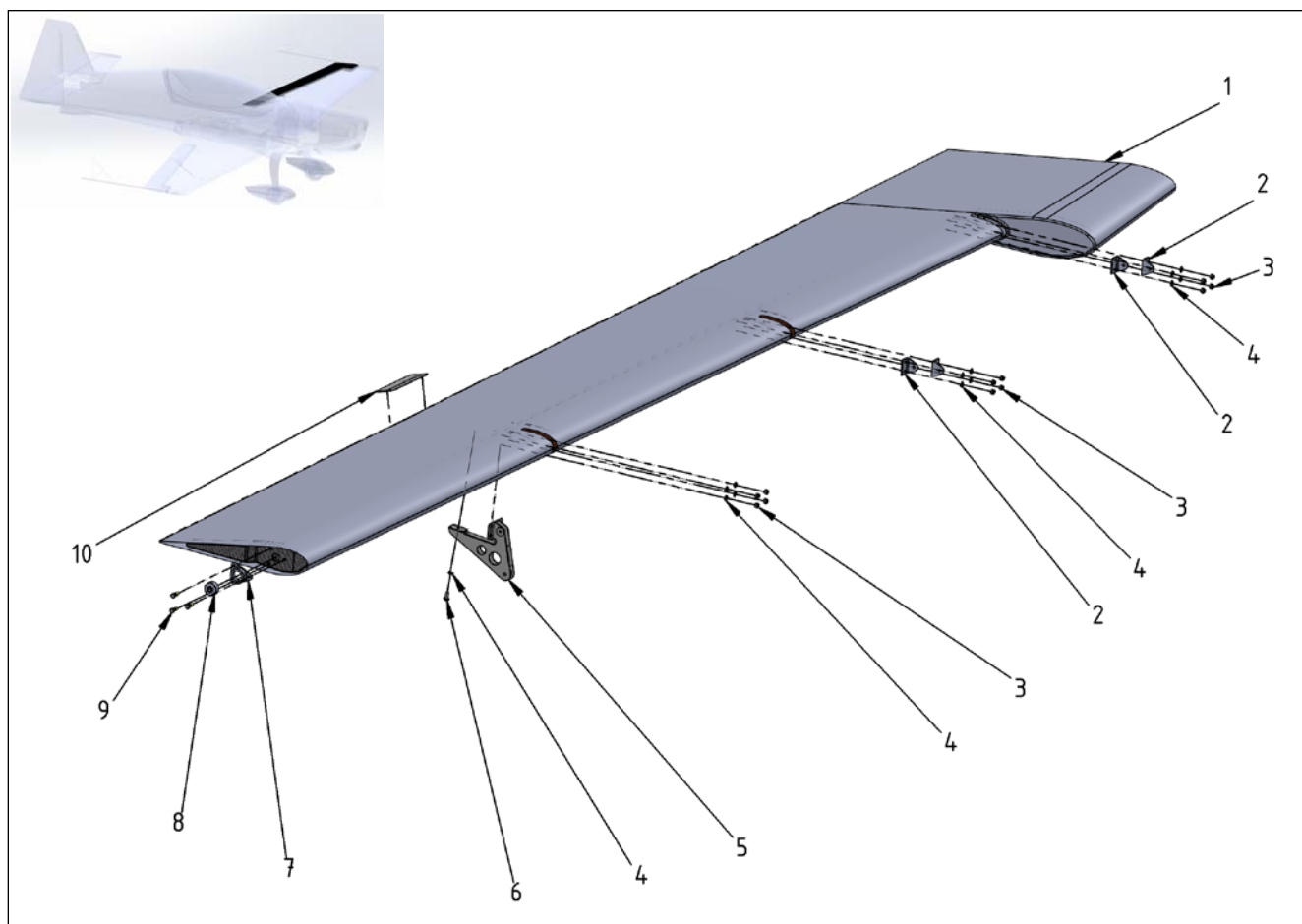


Figure 27-14 Ailerons – Aileron (improved) LH

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
Aileron (improved) RH				
1	11301.00-02-LV	Aileron RH prepared for painting	1	≥055
2	05016	. Bolt LN9037-05016	3	
3	NK0005	. Bearing EN3289	1	
4	1C105.16	. Bearing Housing		
7	11302.00-LV	. Aileron Drive Lever (coated)	1	
<i>Attaching Parts</i>				
5	00416	Washer DIN125 5,3 x 10 x 1,0 mm	5	
6	00076	Nut LN9348-05	4	
8	00118	Bolt AN526C-1032R8	1	

9	1C105.004	. Bearing Block Aileron	4	
<i>Attaching Parts</i>				
5	00416	Washer DIN125 5,3 x 10 x 1,0 mm	2	
6	00076	Nut LN9348-05	2	

10	11301.81	. Trim Tab Aileron	1	

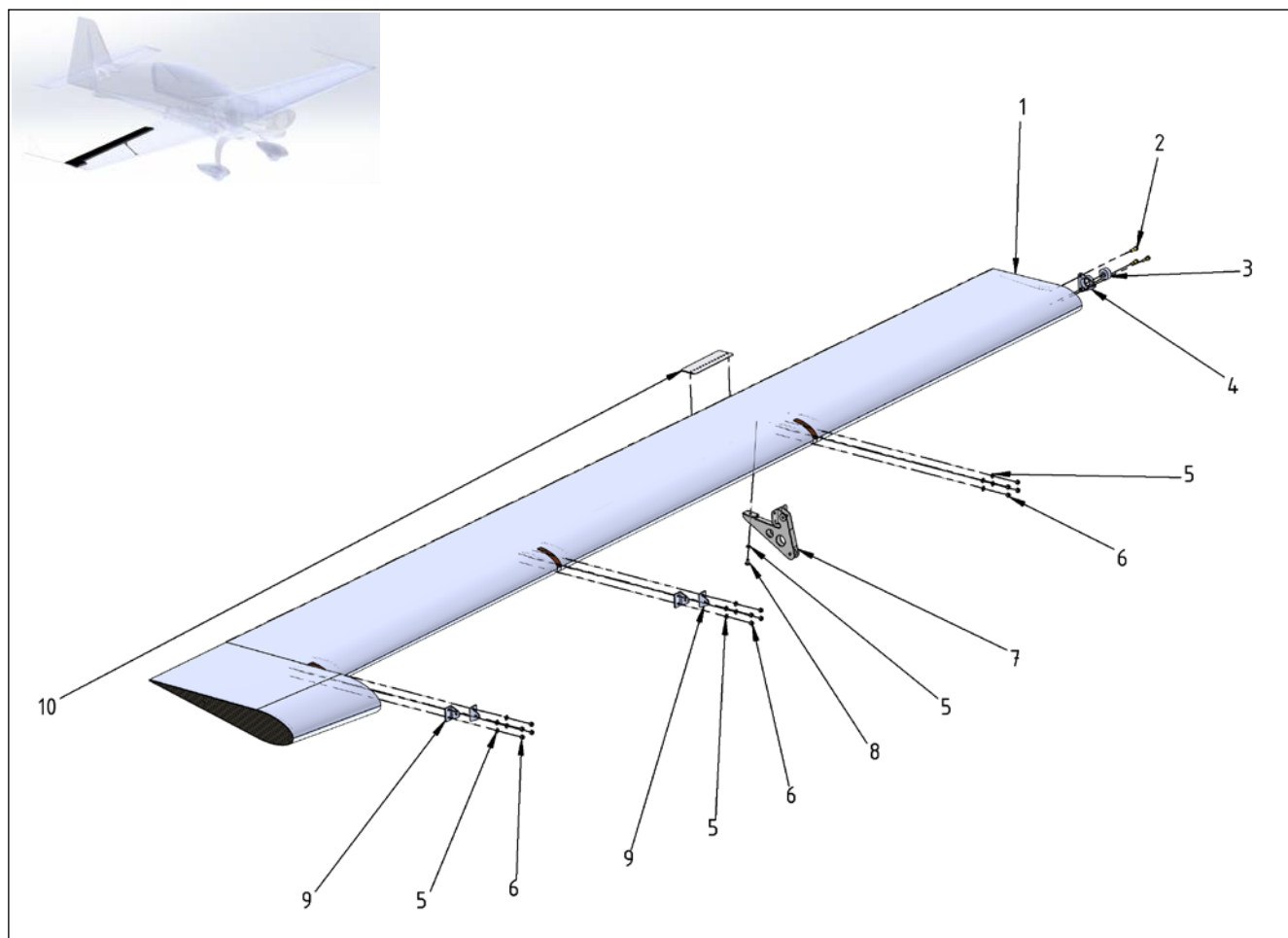


Figure 27-15 Ailerons – Aileron (improved) RH

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
	81913.10	Aileron (Standard) LH		
1	81913.10	Aileron LH (prepared for painting)	1	
-	1C301.0-01	. Aileron LH		
2	1C105.004	.. Bearing Block Aileron	4	
		<i>Attaching Parts</i>		
3	00076	Nut LN9348-05	2	
4	00416	Washer DIN125 5,3 x 10 x 1,0 mm	2	

5	1C302.0-01-LV	. Aileron Drive Lever (coated)	1	
		<i>Attaching Parts</i>		
3	00076	Nut LN9348-05	4	
4	00416	Washer DIN125 5,3 x 10 x 1,0 mm	5	
6	00118	Bolt AN526C-1032R8	1	

7	1C105.16	.. Bearing Housing	1	
		<i>Attaching Parts</i>		
9	05016	Bolt LN9037-05016	3	

8	NK0005	.. Bearing EN3289 BN08E	1	

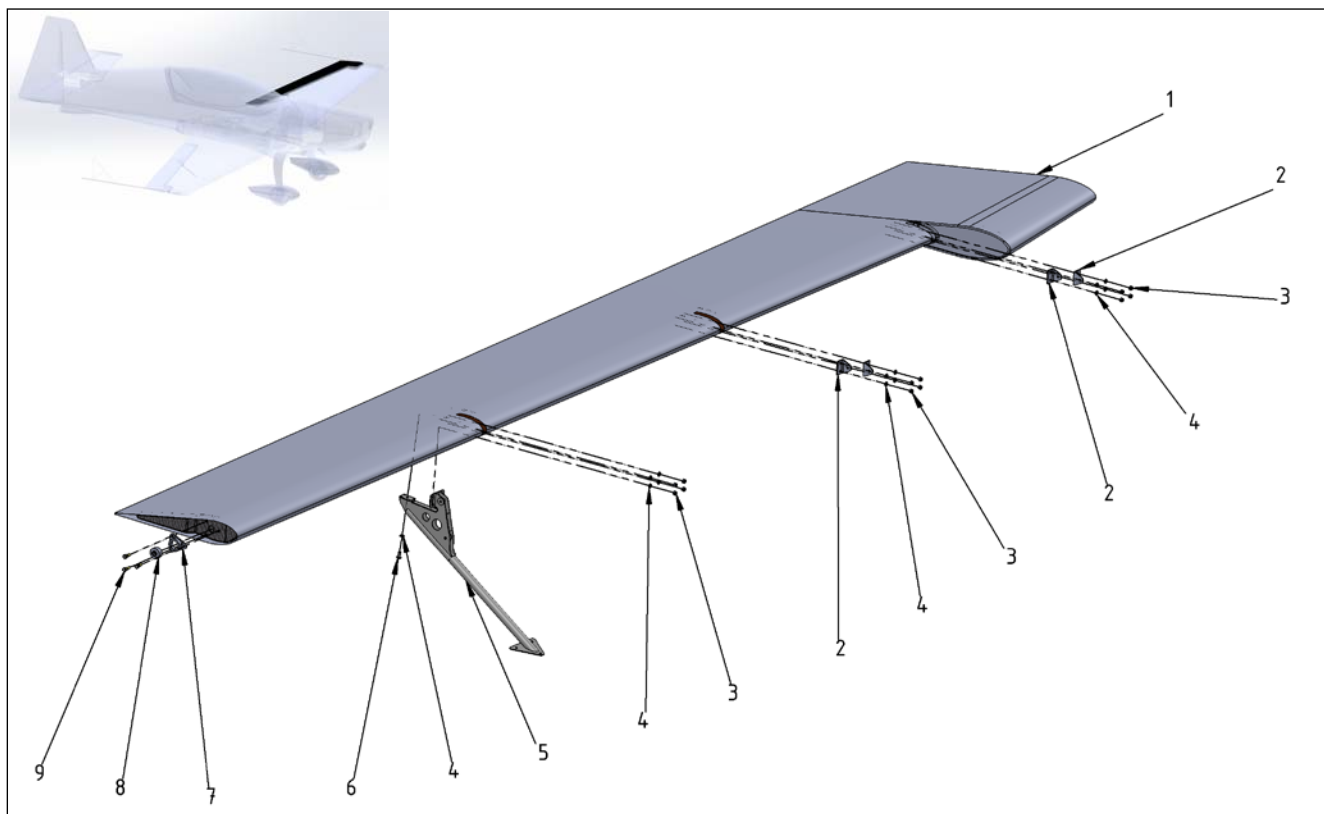


Figure 27-16 Ailerons – Aileron (Standard) LH

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
	81913.20	Aileron (Standard) RH	
1	81913.20	Aileron RH prepared for painting	1
	1C301.0-02	. Aileron RH	
3	NK0005	.. Bearing EN3289	1
4	1C105.16	.. Bearing Housing	1
		<i>Attaching Parts</i>	
2	05016	Bolt LN9037-05016	3

9	1C105.004	.. Bearing Block Aileron	4
		<i>Attaching Parts</i>	
5	00416	Washer DIN125 5,3 x 10 x 1,0 mm	2
6	00076	Nut LN9348-05	2

7	1C302.0-02-LV	. Aileron Drive Lever (coated)	1
		<i>Attaching Parts</i>	
5	00416	Washer DIN125 5,3 x 10 x 1,0 mm	5
6	00076	Nut LN9348-05	4
8	00118	Bolt AN526C-1032R8	1

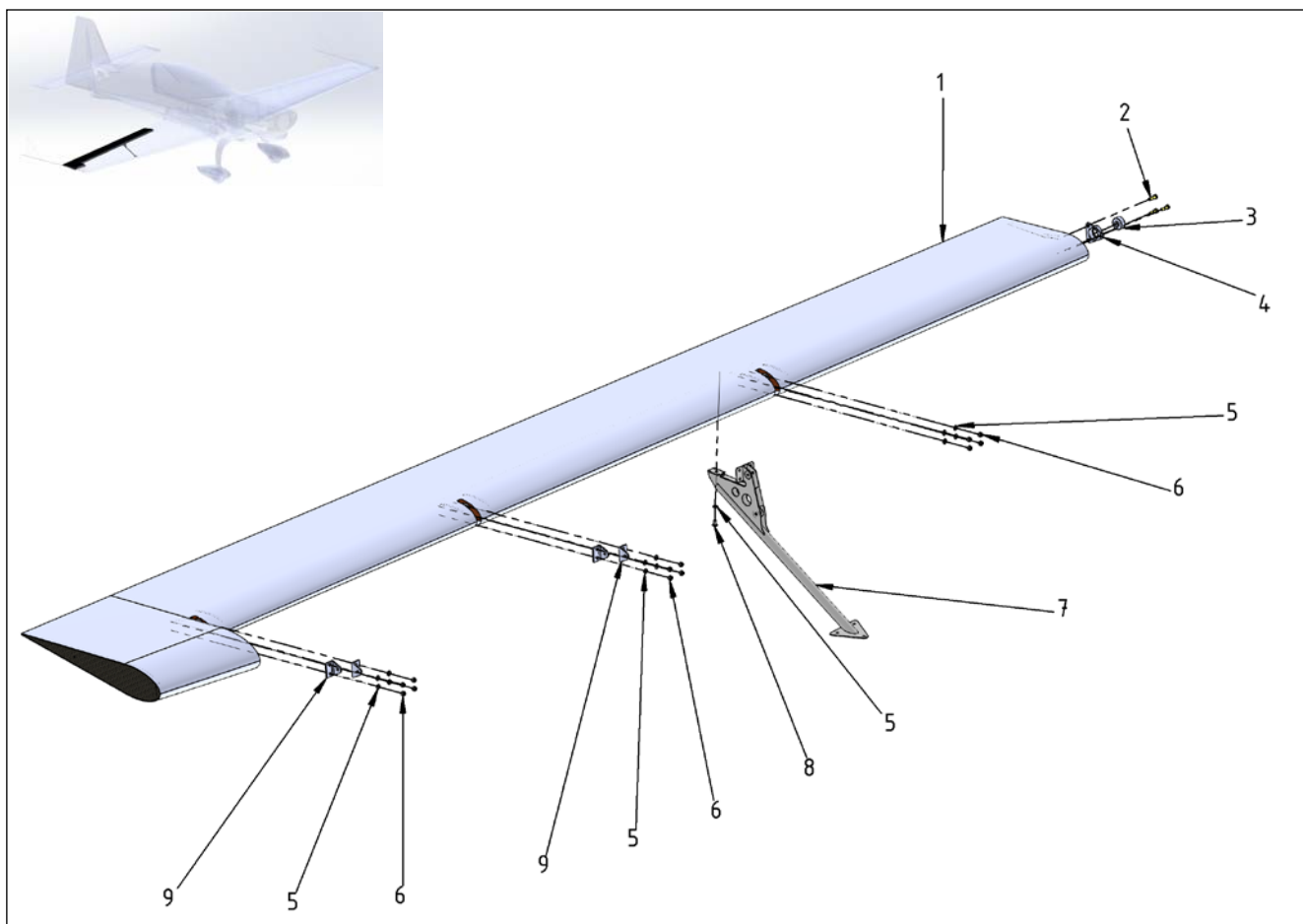


Figure 27-17 Ailerons – Aileron (Standard) RH

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Spades

LH Spade

3	11300.30	Aileron Spade LH	1	
		<i>Attaching Parts</i>		
1	NL4005	Bolt LN9037-05018	3	
2	00416	Washer DIN125 5,3 mm	3	
4	00936	Washer DIN9021 5,3 x 15 x 1,2 mm	3	
5	00076	Nut LN9348-05	3	

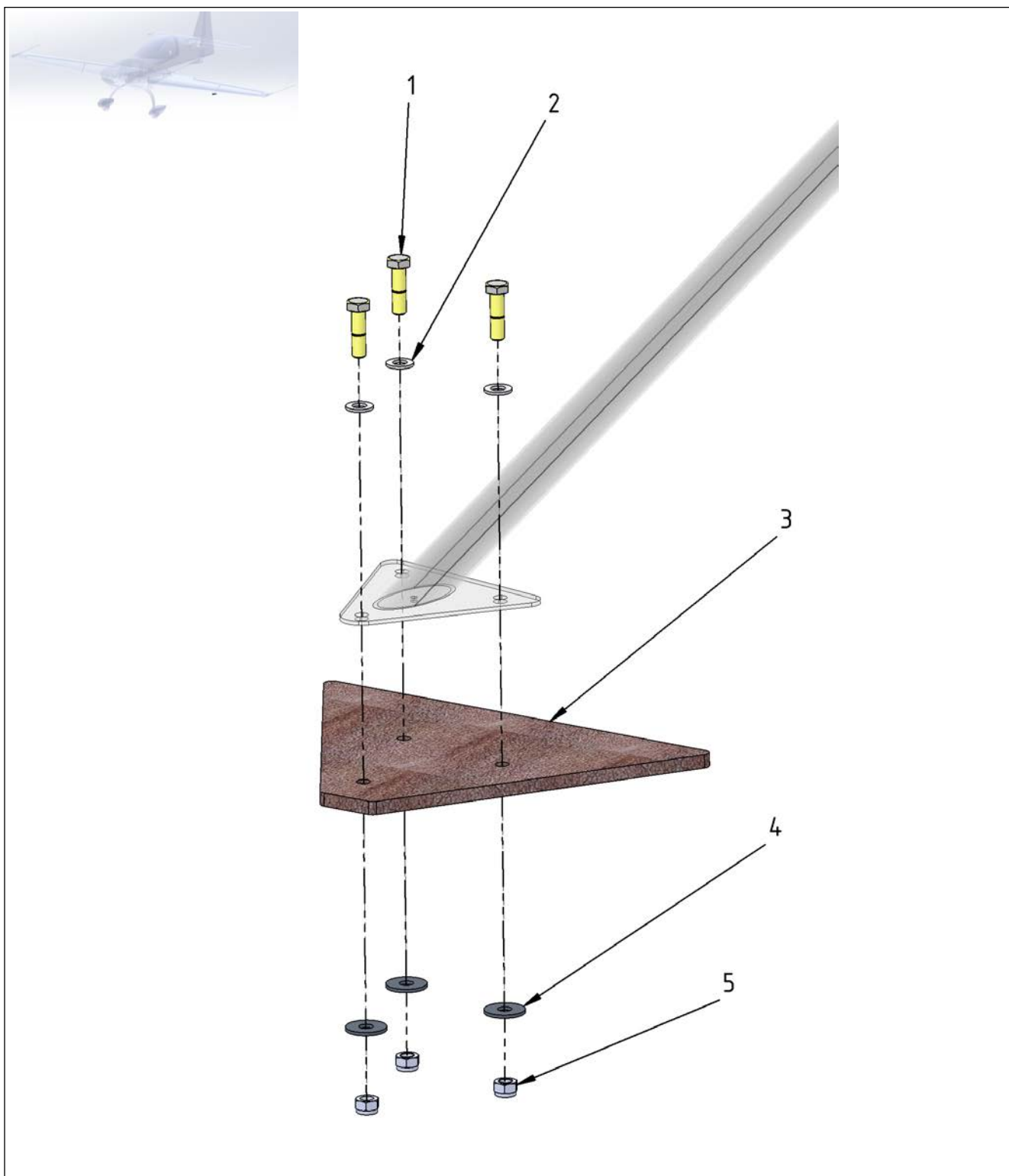


Figure 27-18 Spades – LH Spade

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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RH Spade

3	11300.40	Aileron Spade RH	1	
		<i>Attaching Parts</i>		
1	NL4005	Bolt LN9037-05018	3	
2	00416	Washer DIN125 5,3 mm	3	
4	00936	Washer DIN9021 5,3 x 15 x 1,2 mm	3	
5	00076	Nut LN9348-05	3	

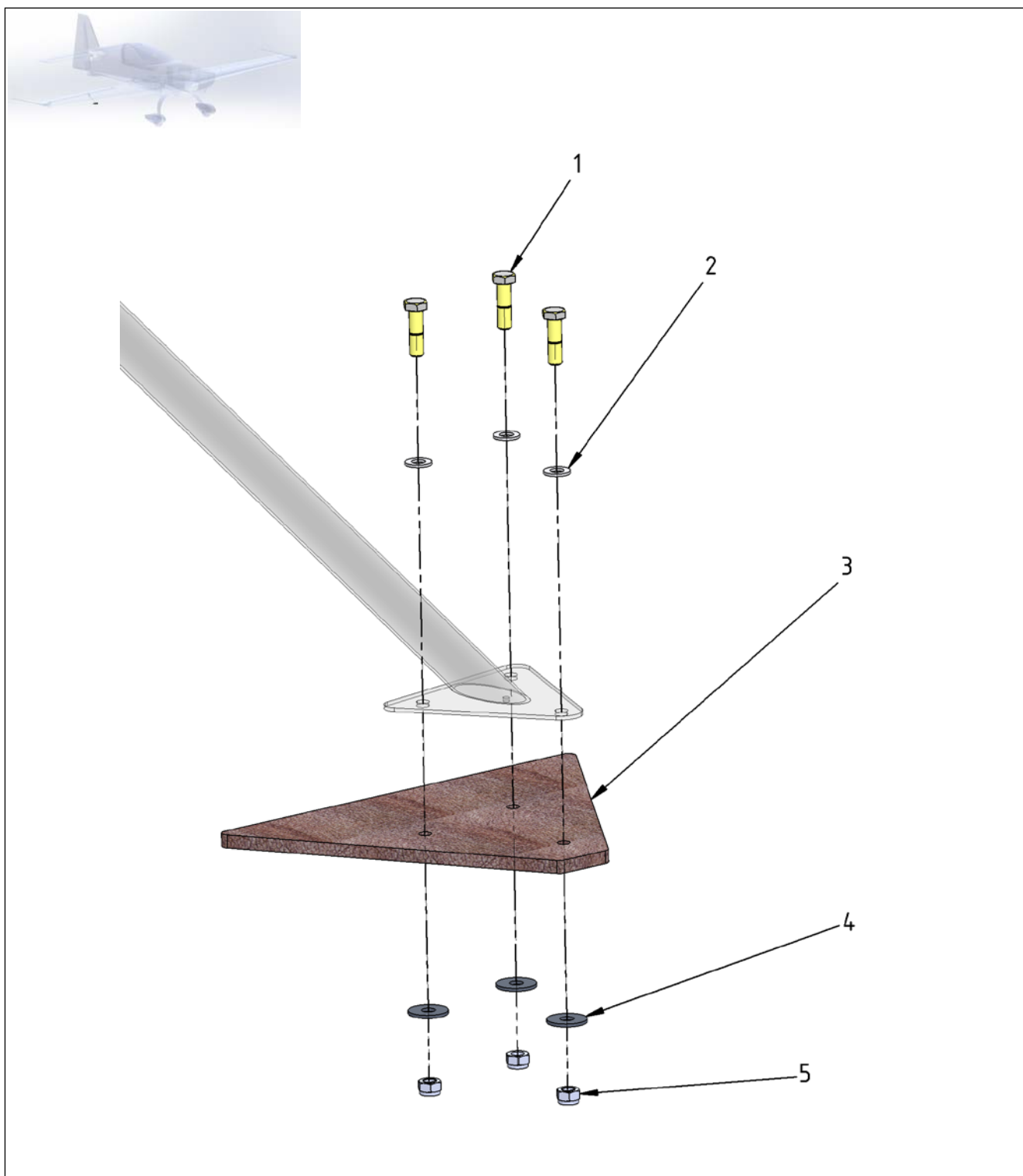


Figure 27-19 Spades – RH Spade

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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27-20 Rudder Control

Rudder

1	31100.00-LV	Rudder (prepared for painting)	1	
2	31612.01	. Bearing Attachment	2	
-	31010.10-VM	Ground Cable	1	
		<i>Attaching Parts</i>		
3	35091	Bolt AN3-12A	1	
4	25090	Washer AN960-416	2	
5	79	Bolt AN4-12A	2	
6	31583	Washer AN960-10	1	
7	00802	Nut MS21042-3	1	

10	31611.01	. Bearing Attachment Lower	1	
-	31010.10-VM	Ground Cable	1	
		<i>Attaching Parts</i>		
3	35091	AN3-12A	3	
4	25090	Washer AN960-416	2	
5	79	AN4-12A	2	
6	31583	Washer AN960-10	5	
7	00802	Nut MS21042-3	5	
8	31010.02-VM	Sleeve Rudder	2	
9	31010.01	Bushing	2	

11	31614.01	. Tailwheel Linkage RH	1	
		<i>Attaching Parts</i>		
3	35091	Bolt AN3-12A	2	
6	31583	Washer AN960-10	2	

12	31613.01	. Tailwheel Linkage LH	1	
		<i>Attaching Parts</i>		
3	35091	Bolt AN3-12A	2	
6	31583	Washer AN960-10	2	

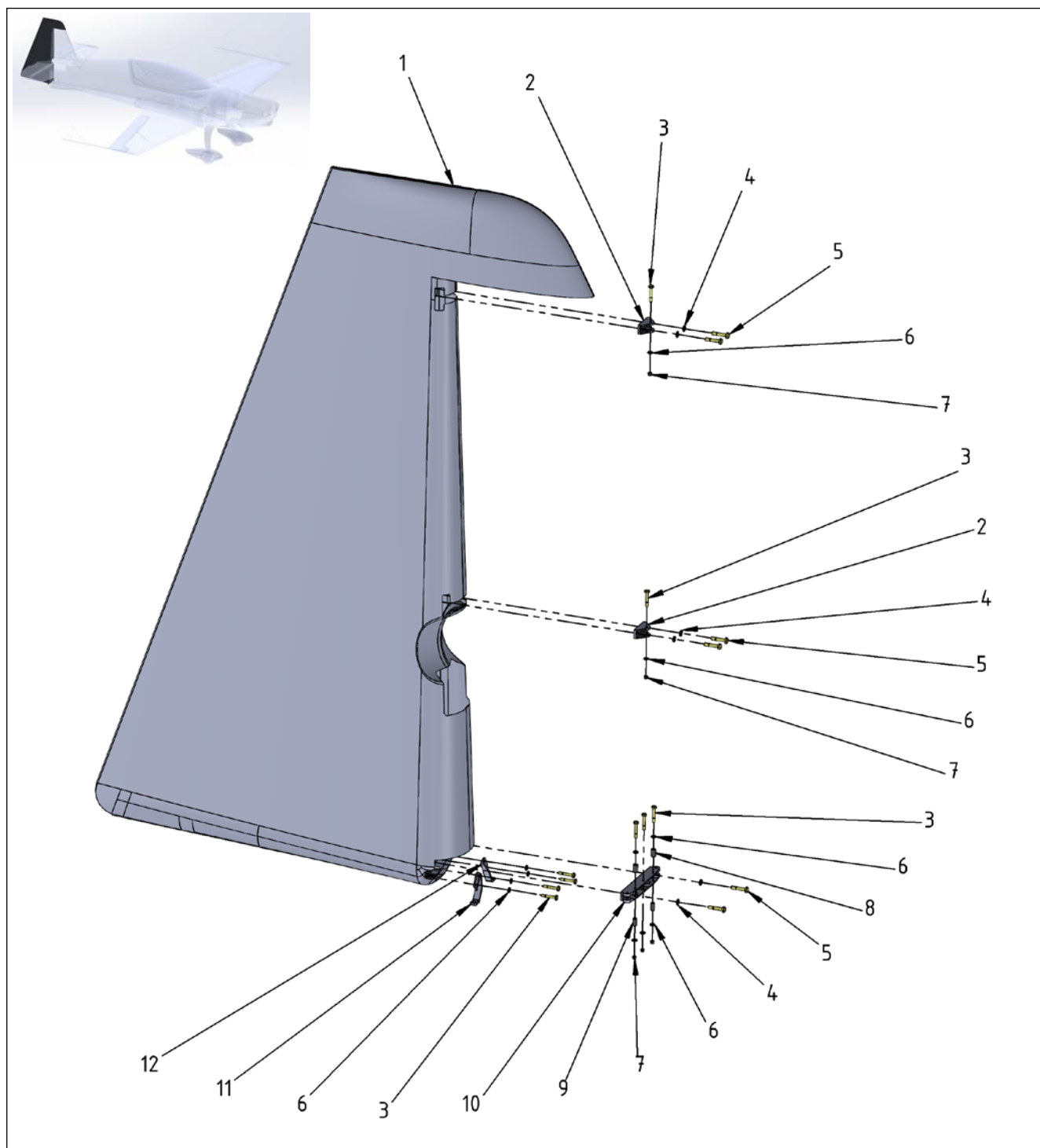


Figure 27-20 Rudder Control - Rudder

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Rudder Bearing

1	21454.00-VM	Rudder Bearing Upper <i>Attaching Parts</i>	1	
2	00202	Bolt AN3-3A	1	
4	35083	Washer AN960-416	2	
5	01242	Bolt AN4-13A	2	
6	31583	Washer AN960-10	1	
7	00802	Nut MS21042-3 ***	1	
3	34875	. Bearing MS27643-3, DSP3	1	
8	21453.00-VM	Rudder Bearing Center <i>Attaching Parts</i>	1	
2	00202	Bolt AN3-3A	1	
4	25090	Washer AN960-416	2	
6	31583	Washer AN960-10	1	
7	00802	Nut MS21042-3	1	
9	00803	Nut MS21042-4	2	
12	NA4130	Bolt AN4-14A	2	
13	01227	Washer DIN9021 6,4 x 18 x 1,6 mm ***	2	
3	34875	. Bearing MS27643-3, DSP3	1	
11	21452.00-VM	Tail & Rudder Bearing <i>Attaching Parts</i>	1	
2	00202	Bolt AN3-3A	1	
4	35083	Washer AN960-416	8	
6	31583	Washer AN960-10	1	
7	00802	Nut MS21042-3	1	
9	00803	Nut MS21042-4	4	
12	01242	Bolt AN4-14A ***	4	
10	35079	. Bearing MS27644-3, DPP3	1	

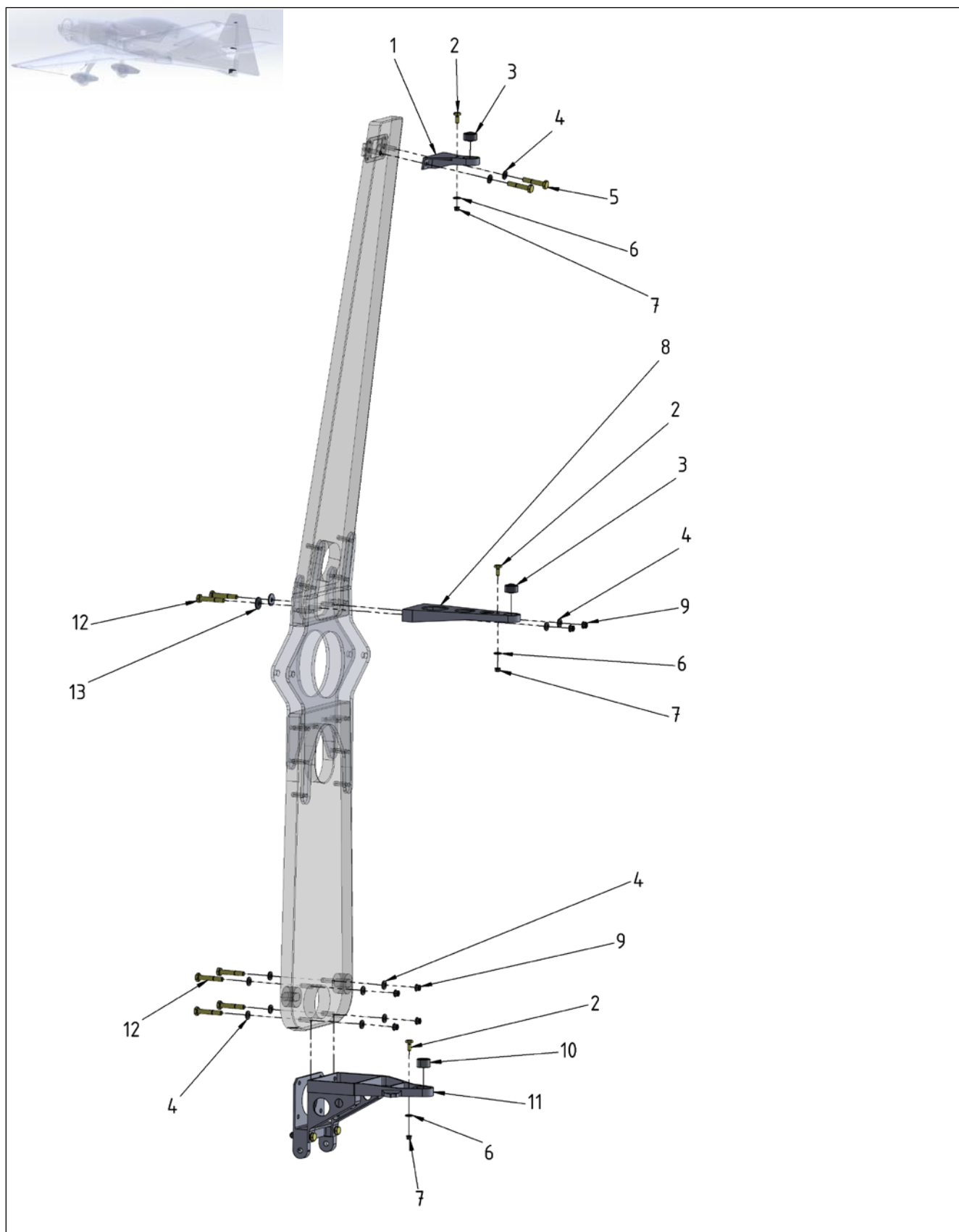


Figure 27-21 Rudder Control – Rudder Bearing

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Control Cable

1	41301.00-SZ	Rudder Control Cable Kit	2	
		<i>Attaching Parts</i>		
2	00205	Bolt AN3-6A	2	
3	31583	Washer AN960-10	6	
4	88	Nut MS21083N3	3	
5	35091	Bolt AN3-12A	1	
6	25092	Washer AN960-516L	2	
7	41300.11	Sleeve	1	
8	01837	Shrinking Sleeve 9.5-4.8	2	
9	00194	Copper Sleeve 28-3-M	3	

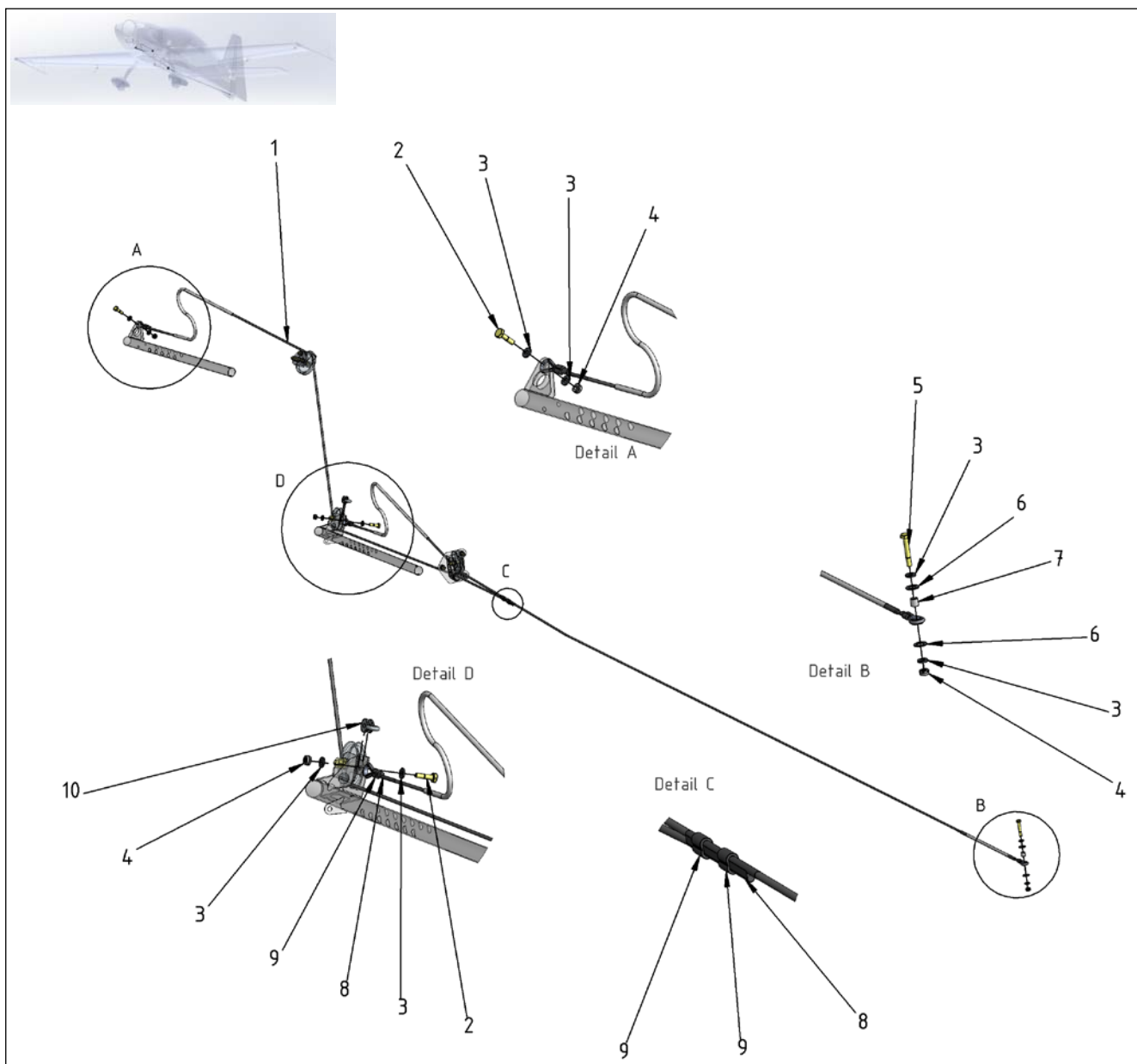


Figure 27-22 Rudder Control – Control Cable

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Cable Guidance

-	Parts below	FWD Rudder Pulley	2	
1	NA4150	. Nut MS21083N4	1	
2	25090	. Washer AN960-416	1	
3	88	. Nut MS21083N3	3	
4	31583	. Washer AN960-10L	6	
5	41305.12-VM	. Bracket FWD Rudder Pulley	1	
6	41305.11	. Flange FWD Rudder Pulley	1	
7	00204	. Bolt AN4-15A	3	
8	41305.13	. Securing Plate Pulley	1	
9	02453	. Pulley MS24566-3B	1	
10	35099	. Bolt AN4-15A	1	
11	31583	. Washer AN960-416L	1	
12	41305.50-VM	Fairlead Support (RH only)	1	
<i>Attaching Parts</i>				
7	00204	Bolt AN3-5A	2	
13	NA4126	Washer AN960C10L	2	

15	41305.30-LK	Control Cable Guidance (painted)	2	
<i>Attaching Parts</i>				
3	88	Nut MS21083N3	3	
4	31583	Washer AN960-10L	6	
13	NA4126	Washer AN960C10L	2	
16	00202	Bolt AN3-3A	3	

9	02453	Pulley MS24566-3B	1	
<i>Attaching Parts</i>				
1	NA4150	Nut MS21083N4	1	
2	25090	Washer AN960-416	2	
14	78	Bolt AN4-11A	1	

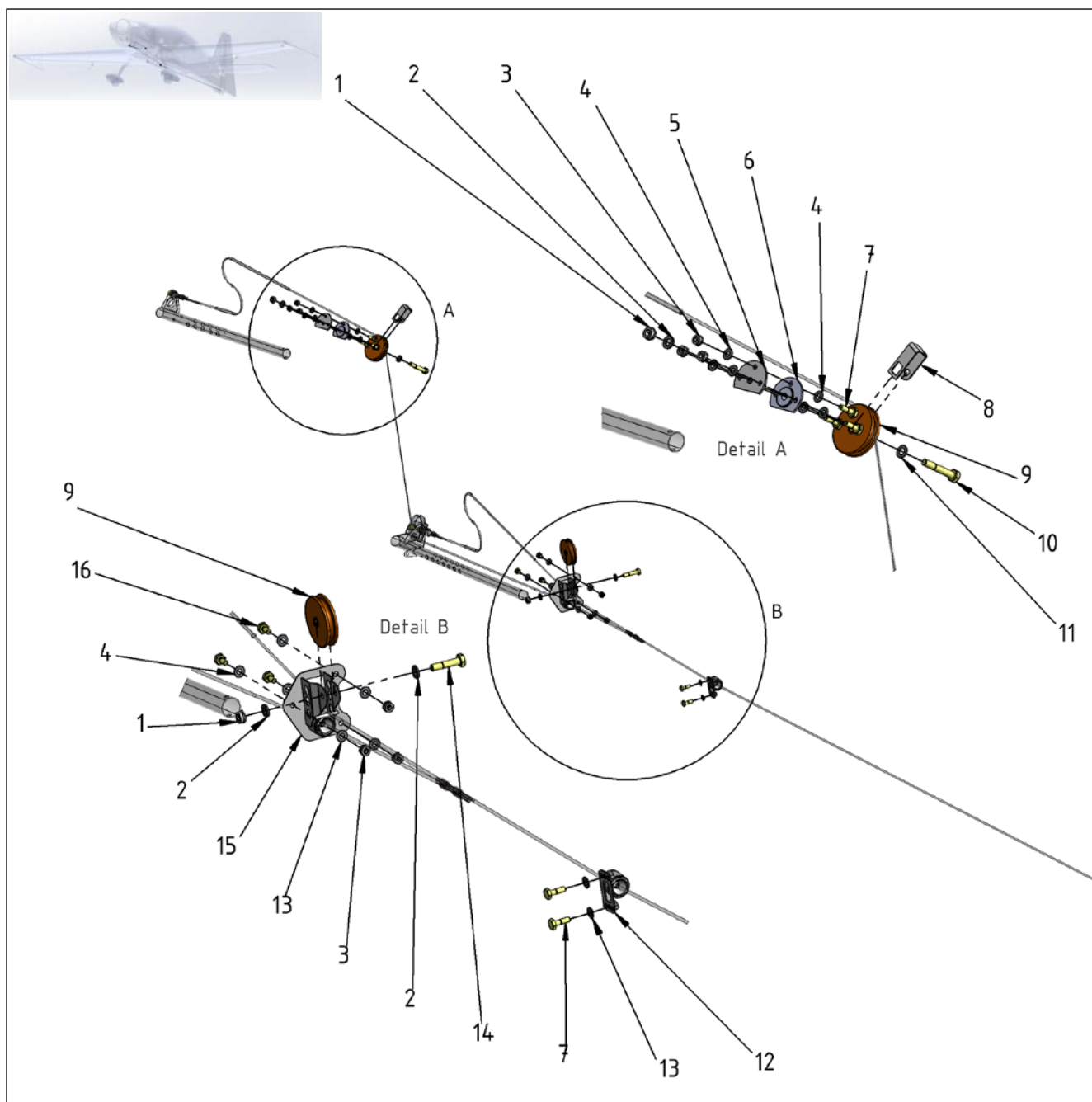


Figure 27-23 Rudder Control – Control Cable Guidance

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
Front Pedal LH			
-	41311.10-VM	Front Pedal LH pre-assembled	1
Pedal			
1	41322.50-LK	Brake Pedal LH (painted) <i>Attaching Parts</i>	1
6	35083	Washer AN960-416L	2
7	700024	Bolt AN4H-4A	2
-	00781	Safety Wire MS20995-C32 ***	2
2	34643	Brake Cylinder MP-003.4N(A) <i>Attaching Parts</i>	1
3	00416	Washer DIN125-5,3 mm	2
4	00034	Bolt LN9037-05022	1
8	00053	Bolt LN9037-06038	1
13	00077	Nut LN9348-06	1
14	00417	Washer DIN125 6,4	1
15	00076	Nut LN9348-05 ***	1
10	41322.30-LK	Cable Guide LH (painted) <i>Attaching Parts</i>	1
6	35083	Washer AN960-416L	2
7	700024	Bolt AN4H-4A	2
-	00781	Safety Wire MS20995-C32 ***	2
11	41322.10-LK	Welding Group Pedal LH	1
5	41322.70	Pedal Axle <i>Attaching Parts</i>	2
6	35083	Washer AN960-416L	1
7	700024	Bolt AN4H-4A	2
9	35236	Bolt AN4H-14A ***	2
12	00201	Spring Ø 2,2 x 20 x 90,9 mm / 180°	1

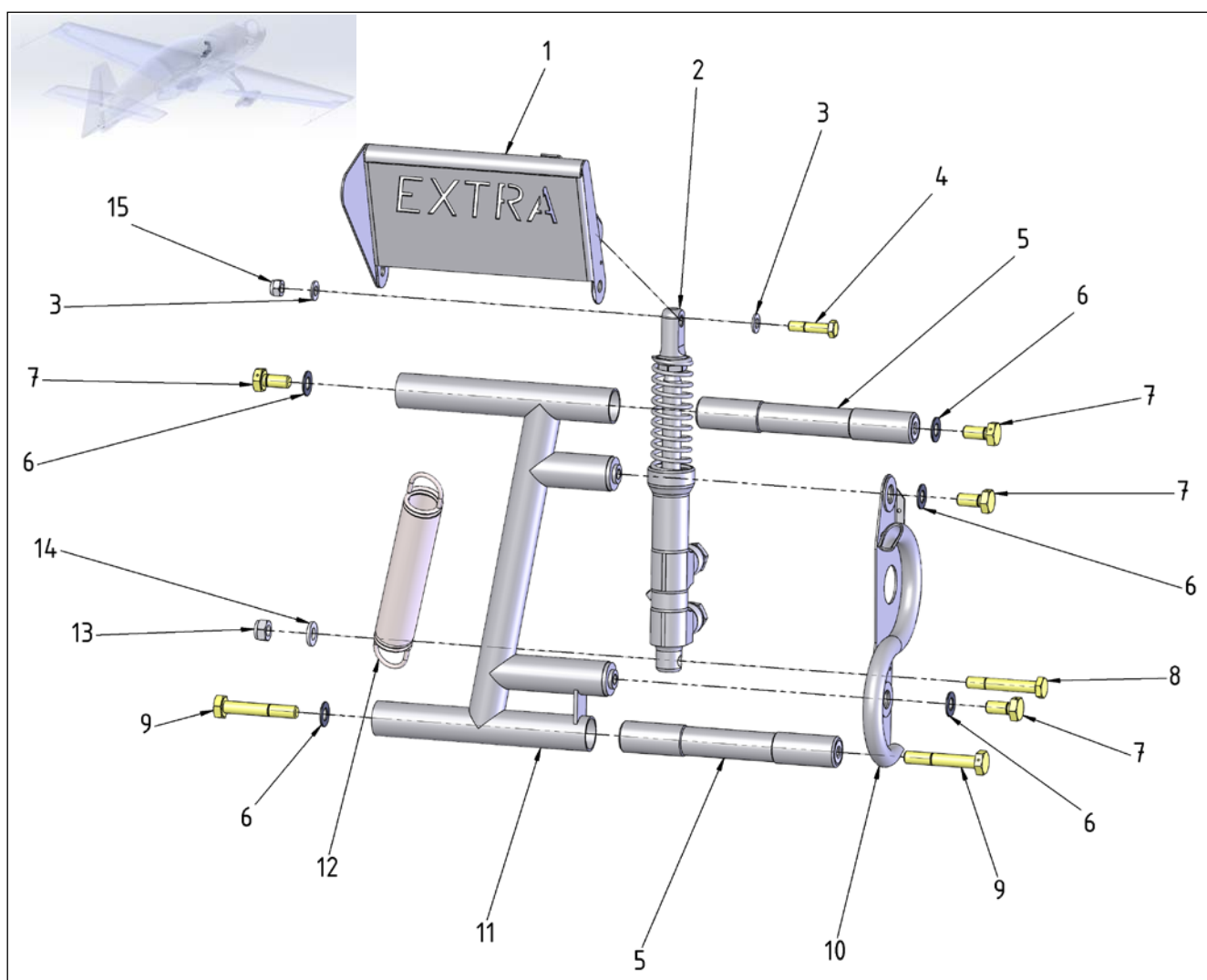


Figure 27-24 Front Pedal LH - Pedal

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Footrest (Front Pedal LH)

4	41321.05	Spring Attachment Plate LH	1	
5	41311.03-FB	Footrest Plate FWD LH (painted)	1	
<i>Attaching Parts</i>				
1	35222	Bolt #10-32 – 3/4"	4	
2	149	Washer AN960-10L	5	
3	35162	Clevis Pin MS20392-2C39	1	

6	41321.30-FB	Bracket Pedal LH	1	

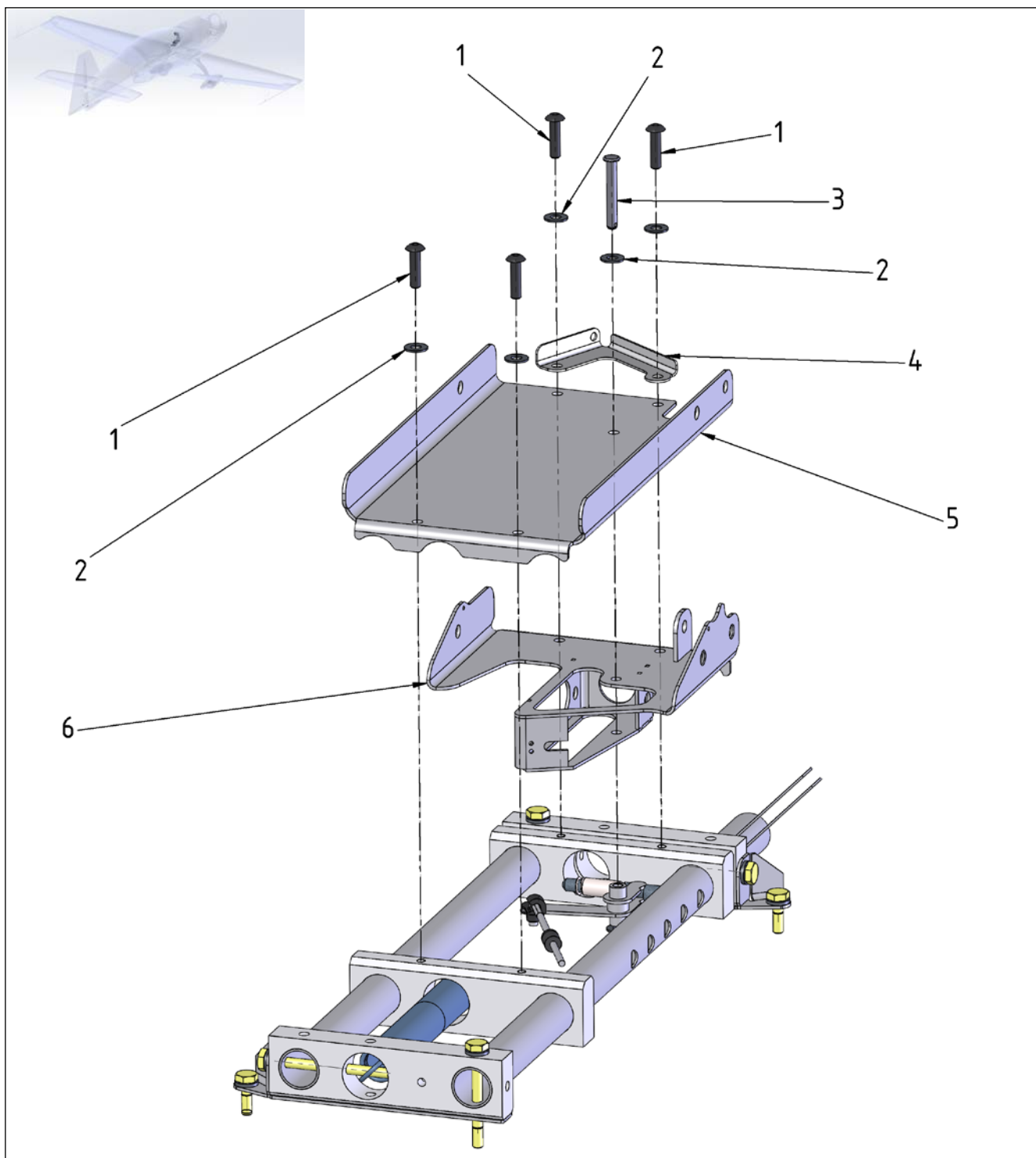


Figure 27-25 Front Pedal LH - Footrest

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
Base (Front Pedal LH)			
1	41311.08	Front Pedal Mount FWD	1
2	41321.01	Pedal Mount Stationary	2
5	41311.80-LK	Front Pedal Attachment 2 (painted)	1
		<i>Attaching Parts</i>	
3	35104	Bolt AN3-17A	1
4	31583	Washer AN960-10	3
6	35095	Bolt AN3-26A	1
7	00204	Bolt AN3-5A	1

8	41311.50-FB	Pedal FWD Rail Tube Assembly LH	1
9	41321.09	Pedal Positioning Pin	1
		<i>Attaching Parts</i>	
21	35160	Spring Ø 1 x 7,3 x 25 mm	1

12	41321.90-FB	Lever Pedal Adjustment	1
		<i>Attaching Parts</i>	
10	149	Washer AN960-10L	1
11	NL4223	Cotter LN94-20012	1

14	41311.02	Front Pedal Mount AFT	1
17	41311.07	Pedal Rail Tube	1
18	35171	Spring Ø 2 x 18 x 104 mm / 270°	1
19	35249	Bowden Cable AC-CAB1-3-0750-048	1
		<i>Attaching Parts</i>	
13	00937	Washer DIN 988 6 x 12 x 0,5 mm	1
20	35250	Clip R4-0-43922	1

15	41311.70-LK	Front Pedal Attachment 1 (painted)	1
		<i>Attaching Parts</i>	
3	35104	Bolt AN3-17A	1
4	31583	Washer AN960-10	1
7	35095	Bolt AN3-5A	1
16	35095	Bolt AN3-26A	1

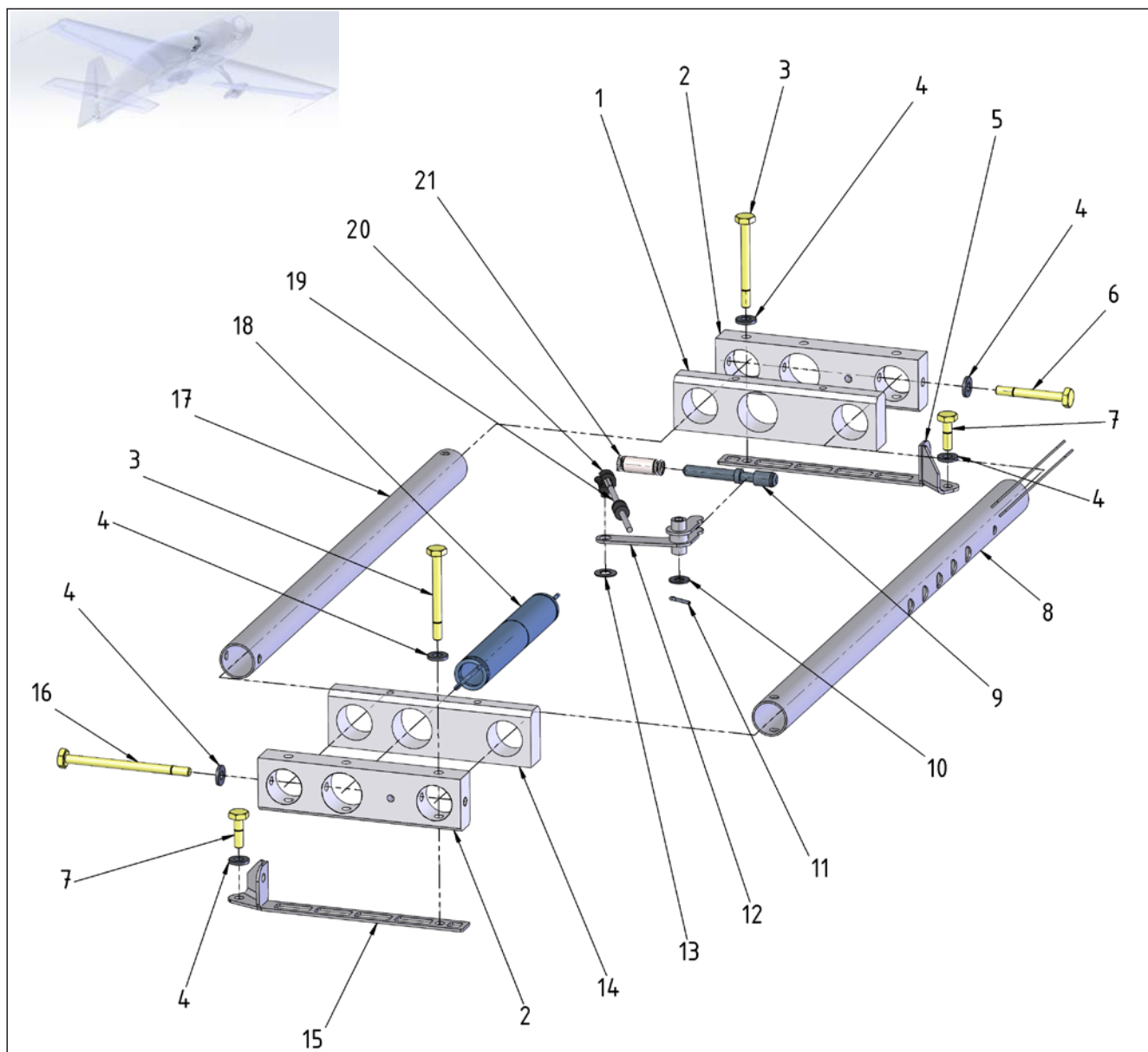


Figure 27-26 Front Pedal LH - Base

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
		Base Raised (Front Pedal LH)		089
1	41311.08	Front Pedal Mount FWD	1	
2	41311.01	Front Pedal Mount Stationary	2	
5	41311.80-LK	Front Pedal Attachment 2 (painted)	1	
		<i>Attaching Parts</i>		
3	36807	Bolt AN3-23A	1	
4	31583	Washer AN960-10	3	
6	35095	Bolt AN3-26A	1	
7	00204	Bolt AN3-5A	1	

8	41311.50-FB	Pedal FWD Rail Tube Assembly LH	1	
9	41321.09	Pedal Positioning Pin	1	
		<i>Attaching Parts</i>		
21	35160	Spring Ø 1 x 7,3 x 25 mm	1	

12	41321.90-FB	Lever Pedal Adjustment	1	
		<i>Attaching Parts</i>		
10	149	Washer AN960-10L	1	
11	NL4223	Cotter LN94-20012	1	

14	41311.02	Front Pedal Mount AFT	1	
17	41311.07	Pedal Rail Tube	1	
18	35171	Spring Ø 2 x 18 x 104 mm / 270°	1	
19	35249	Bowden Cable AC-CAB1-3-0750-048	1	
		<i>Attaching Parts</i>		
13	00937	Washer DIN 988 6 x 12 x 0,5 mm	1	
20	35250	Clip R4-0-43922	1	

15	41311.70-LK	Front Pedal Attachment 1 (painted)	1	
		<i>Attaching Parts</i>		
3	36807	Bolt AN3-23A	1	
4	31583	Washer AN960-10	1	
7	35095	Bolt AN3-5A	1	
16	35095	Bolt AN3-26A	1	

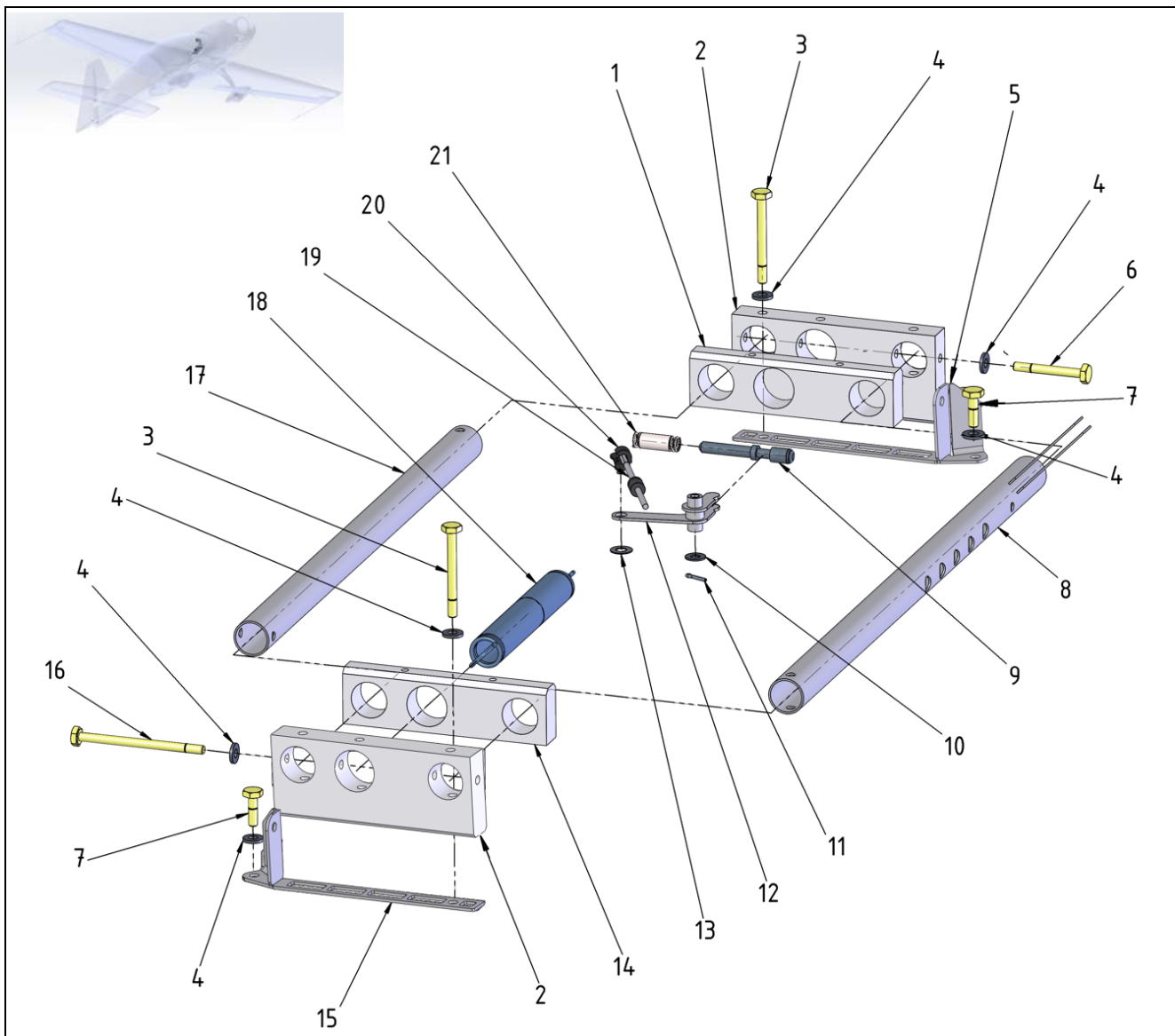


Figure 27-27 Front Pedal LH - Raised Base

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
Front Pedal RH			
-	41311.20-VM	Front Pedal RH pre-assembled	1
Pedal			
1	41322.60-LK	Brake Pedal RH (painted) <i>Attaching Parts</i>	1
5	35083	Washer AN960-416L	2
6	700024	Bolt AN4H-4A	2
	00781	Safety Wire MS20995-C32 ***	2
7	00201	Spring Ø 2,2 x 20 x 90,9 mm / 180°	1
11	41322.20-LK	Welding Group Pedal RH	1
4	41322.70	Pedal Axle <i>Attaching Parts</i>	2
6	700024	Bolt AN4H-4A	2
10	35083	Washer AN960-416L	1
-	00781	Safety Wire MS20995-C32 ***	2
12	34634	Brake Cylinder MP-003.4N(A) <i>Attaching Parts</i>	1
2	00416	Washer DIN125-5,3 mm	2
3	00076	Nut LN9348-05	1
8	00417	Washer DIN125 6,4 mm	2
9	00077	Nut LN9348-06	1
14	00053	Bolt LN9037-06038	1
15	00034	Bolt LN9037-05022 ***	1
13	41322.40-LK	Cable Guide RH (painted) <i>Attaching Parts</i>	1
6	35236	Bolt AN4H-14A	2
10	35083	Washer AN960-416L	2
-	00781	Safety Wire MS20995-C32 ***	2

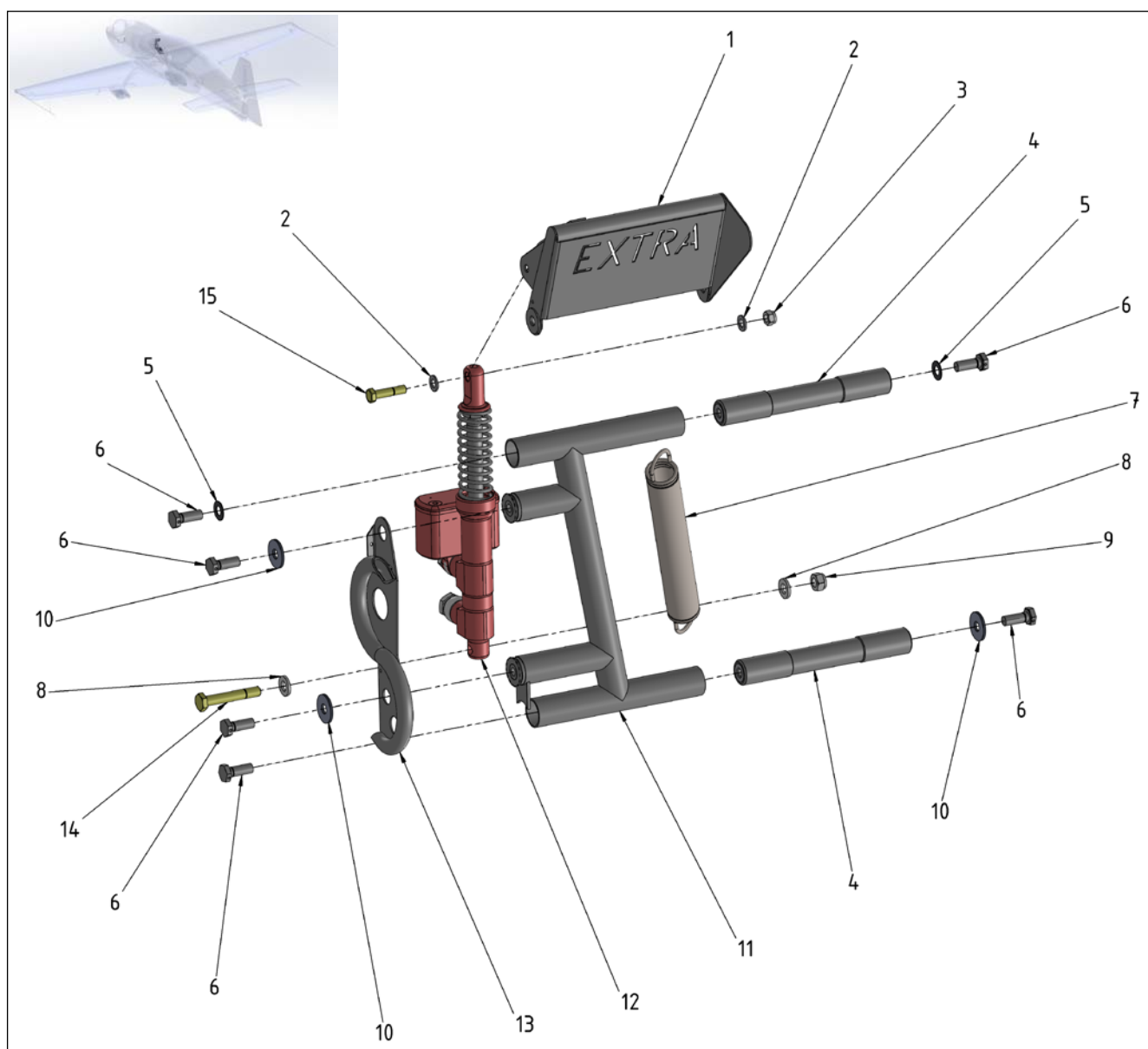


Figure 27-28 Front Pedal RH - Pedal

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Footrest (Front Pedal RH)

3	41321.06	Spring Attachment Plate RH	1	
5	41311.04-FB	Footrest Plate FWD RH (painted)	1	
<i>Attaching Parts</i>				
1	35222	Bolt #10-32 – 3/4"	4	
2	35162	Clevis Pin MS20392-2C39	1	
4	149	Washer AN960-10L	5	

6	41321.40-FB	Bracket Pedal RH	1	

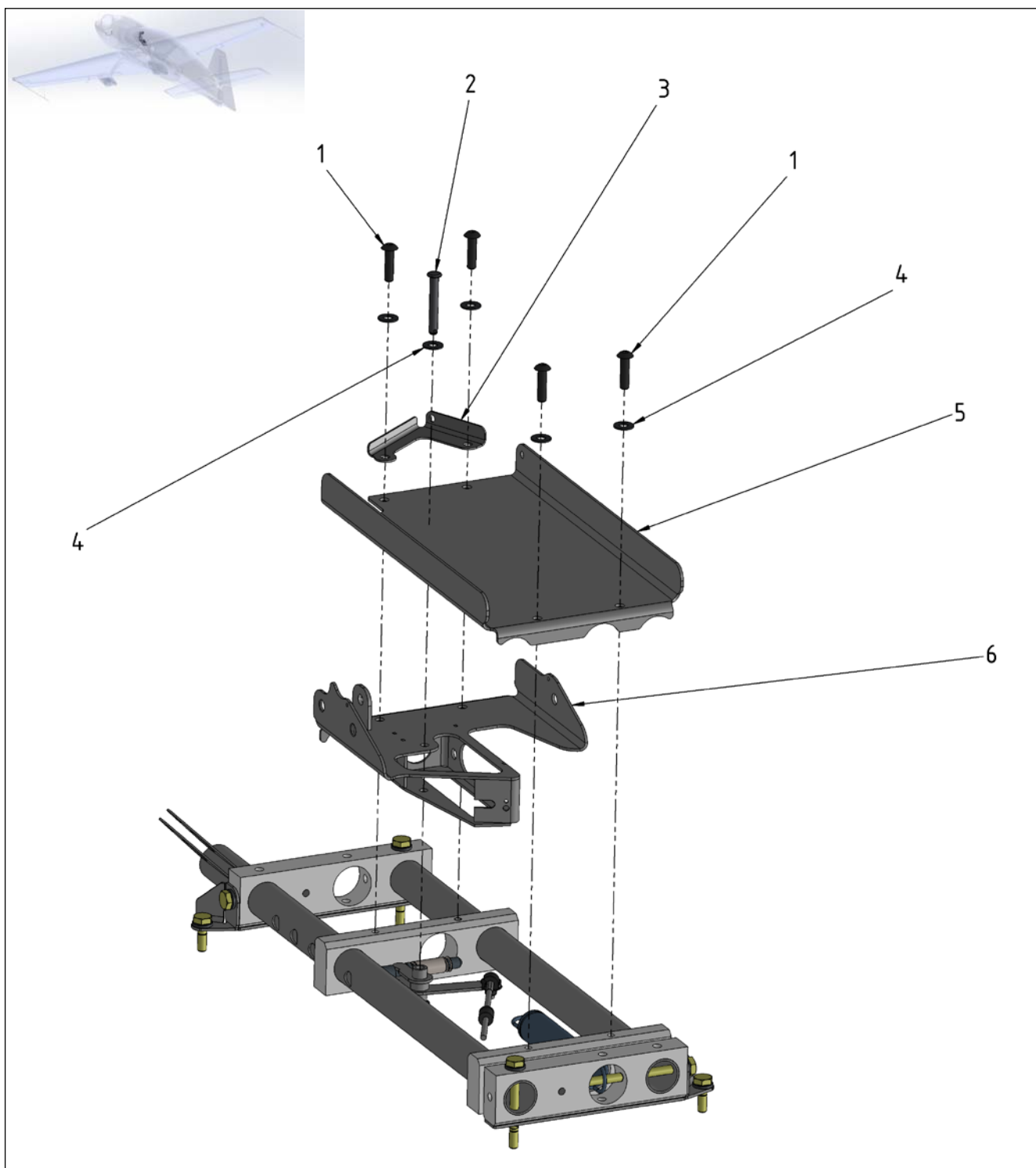


Figure 27-29 Front Pedal RH - Footrest

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
Base (Front Pedal RH)				
1	41321.01	Pedal Mount Stationary	2	
4	41311.08	Front Pedal Mount FWD	1	
5	41321.09	Pedal Positioning Pin	1	
<i>Attaching Parts</i>				
6	35160	Spring Ø 1 x 7,3 x 25 mm ***	1	
8	35249	Bowden Cable AC-CAB1-3-0750-048	1	
<i>Attaching Parts</i>				
7	35250	R4-0-43922 Clip	1	
15	00937	Washer DIN 988 6 x 12 x 0,5 mm ***	1	
9	41311.07	Pedal Rail Tube	1	
10	35171	Spring Ø 2 x 18 x 104 mm / 270°	1	
13	41311.80-LK	Front Pedal Attachment 2 (painted)	1	
<i>Attaching Parts</i>				
2	35104	Bolt AN3-17A	1	
3	31583	Washer AN960-10	3	
11	35095	Bolt AN3-26A	1	
12	00204	Bolt AN3-5A ***	1	
14	41311.02	Front Pedal Mount AFT	1	
16	41321.90-FB	Lever Pedal Adjustment	1	
<i>Attaching Parts</i>				
17	NL4223	Cotter Pin LN94-20012	1	
18	149	Washer AN960-10L ***	1	
19	41311.60-FB	Pedal FWD Rail Tube Assembly RH	1	
20	41311.70-LK	Front Pedal Attachment 1 (painted)	1	
<i>Attaching Parts</i>				
2	35104	Bolt AN3-17A	1	
3	31583	Washer AN960-10	3	
12	00204	Bolt AN3-5A	1	
21	60593	Bolt AN3-14A ***	1	

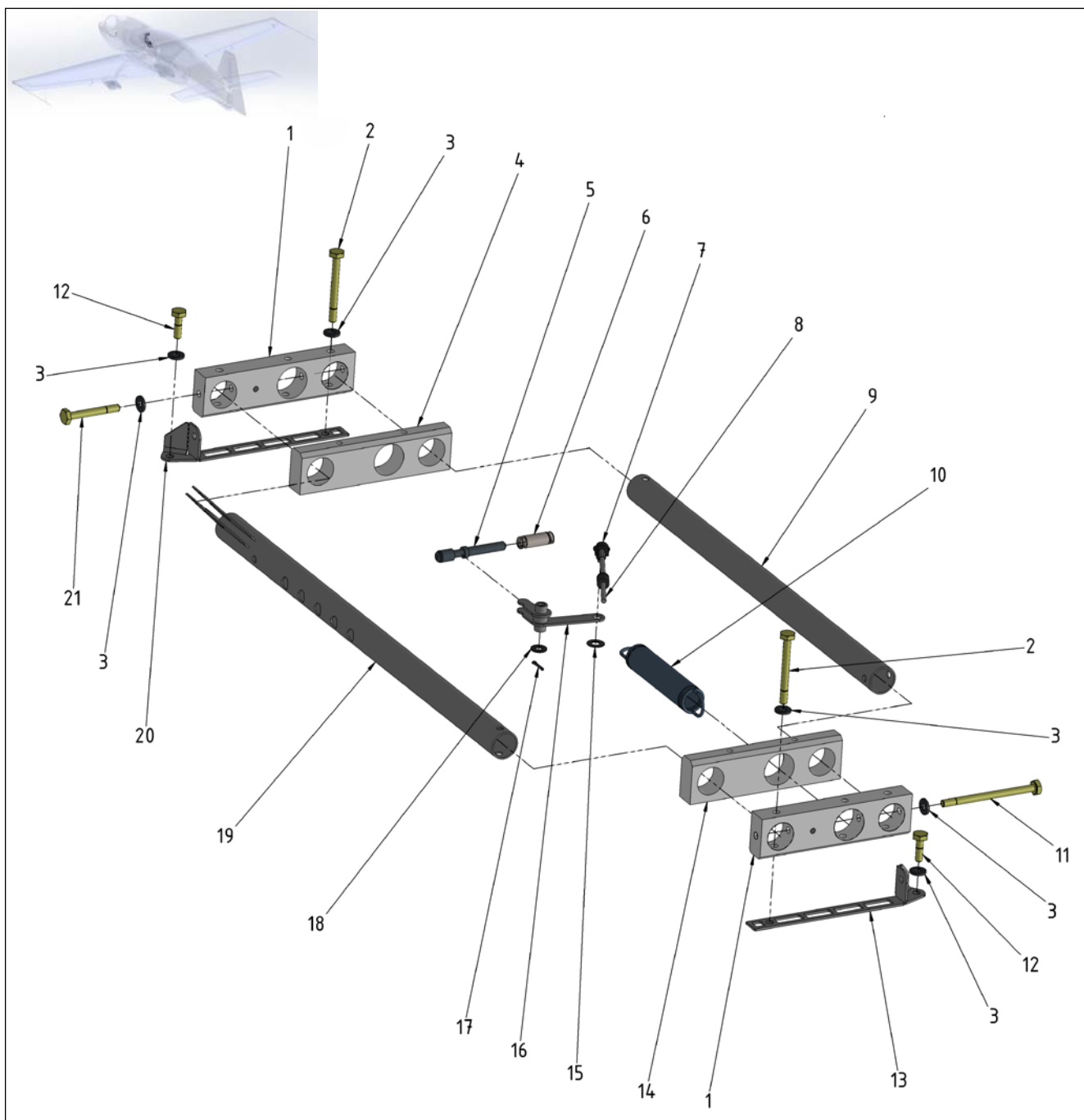


Figure 27-30 Front Pedal RH - Base

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Base Raised (Front Pedal RH)

1	41311.01	Front Pedal Mount Stationary	2	
4	41311.08	Front Pedal Mount FWD	1	
5	41321.09	Pedal Positioning Pin	1	
		<i>Attaching Parts</i>		
6	35160	Spring Ø 1 x 7,3 x 25 mm ***	1	
8	35249	Bowden Cable AC-CAB1-3-0750-048 <i>Attaching Parts</i>	1	
7	35250	R4-0-43922 Clip	1	
15	00937	Washer DIN 988 6 x 12 x 0,5 mm ***	1	
9	41311.07	Pedal Rail Tube	1	
10	35171	Spring Ø 2 x 18 x 104 mm / 270°	1	
13	41311.80-LK	Front Pedal Attachment 2 (painted) <i>Attaching Parts</i>	1	
2	36807	Bolt AN3-23A	1	
3	31583	Washer AN960-10	3	
11	35095	Bolt AN3-26A	1	
12	00204	Bolt AN3-5A ***	1	
14	41311.02	Front Pedal Mount AFT	1	
16	41321.90-FB	Lever Pedal Adjustment <i>Attaching Parts</i>	1	
17	NL4223	Cotter Pin LN94-20012	1	
18	149	Washer AN960-10L ***	1	
19	41311.60-FB	Pedal FWD Rail Tube Assembly RH	1	
20	41311.70-LK	Front Pedal Attachment 1 (painted) <i>Attaching Parts</i>	1	
2	36807	Bolt AN3-23A	1	
3	31583	Washer AN960-10	3	
12	00204	Bolt AN3-5A	1	
21	60593	Bolt AN3-14A ***	1	

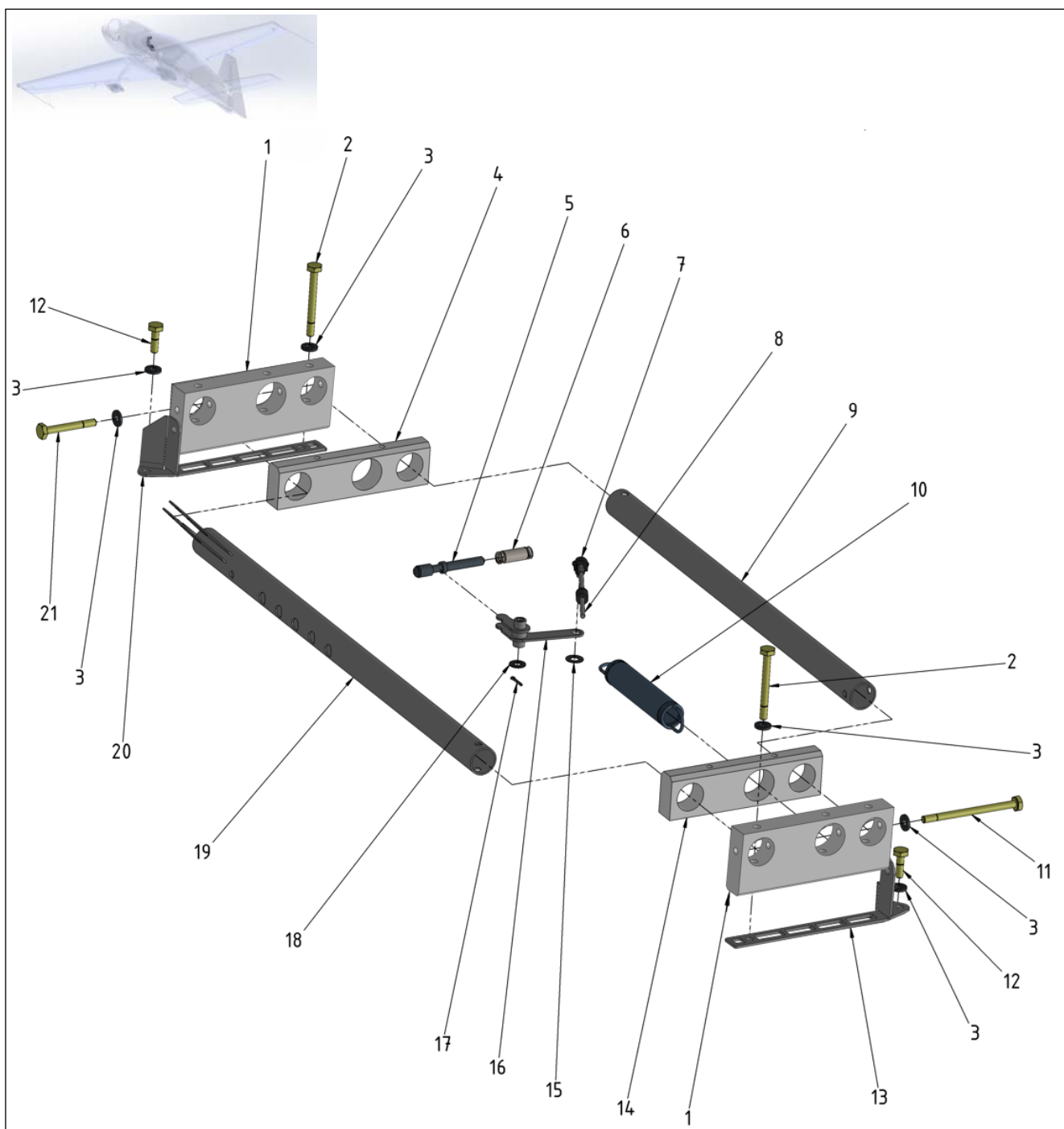


Figure 27-31 Front Pedal RH -Base Raised

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
Rear Pedal LH			
-	41321.10-VM	Rear Pedal LH pre-assembled	1
Pedal			
1	41322.50-LK	Brake Pedal LH (painted) <i>Attaching Parts</i>	1
6	35083	Washer AN960-416L	2
7	700024	Bolt AN4H-4A	2
-	00781	Safety Wire MS20995-C32 ***	2
2	34643	Brake Cylinder MP-003.4N(A) <i>Attaching Parts</i>	1
3	00416	Washer DIN125-5,3 mm	2
4	00034	Bolt LN9037-05022	1
8	00053	Bolt LN9037-06038	1
13	00077	Nut LN9348-06	1
14	00417	Washer DIN125 6,4	1
15	00076	Nut LN9348-05 ***	1
10	41322.30-LK	Cable Guide LH (painted) <i>Attaching Parts</i>	1
6	35083	Washer AN960-416L	2
7	700024	Bolt AN4H-4A	2
-	00781	Safety Wire MS20995-C32 ***	2
11	41322.10-LK	Welding Group Pedal LH <i>Attaching Parts</i>	1
5	41322.70	Pedal Axle	2
6	35083	Washer AN960-416L	1
7	700024	Bolt AN4H-4A	2
9	35236	Bolt AN4H-14A	2
12	00201	Spring Ø 2,2 x 20 x 90,9 mm / 180° ***	1

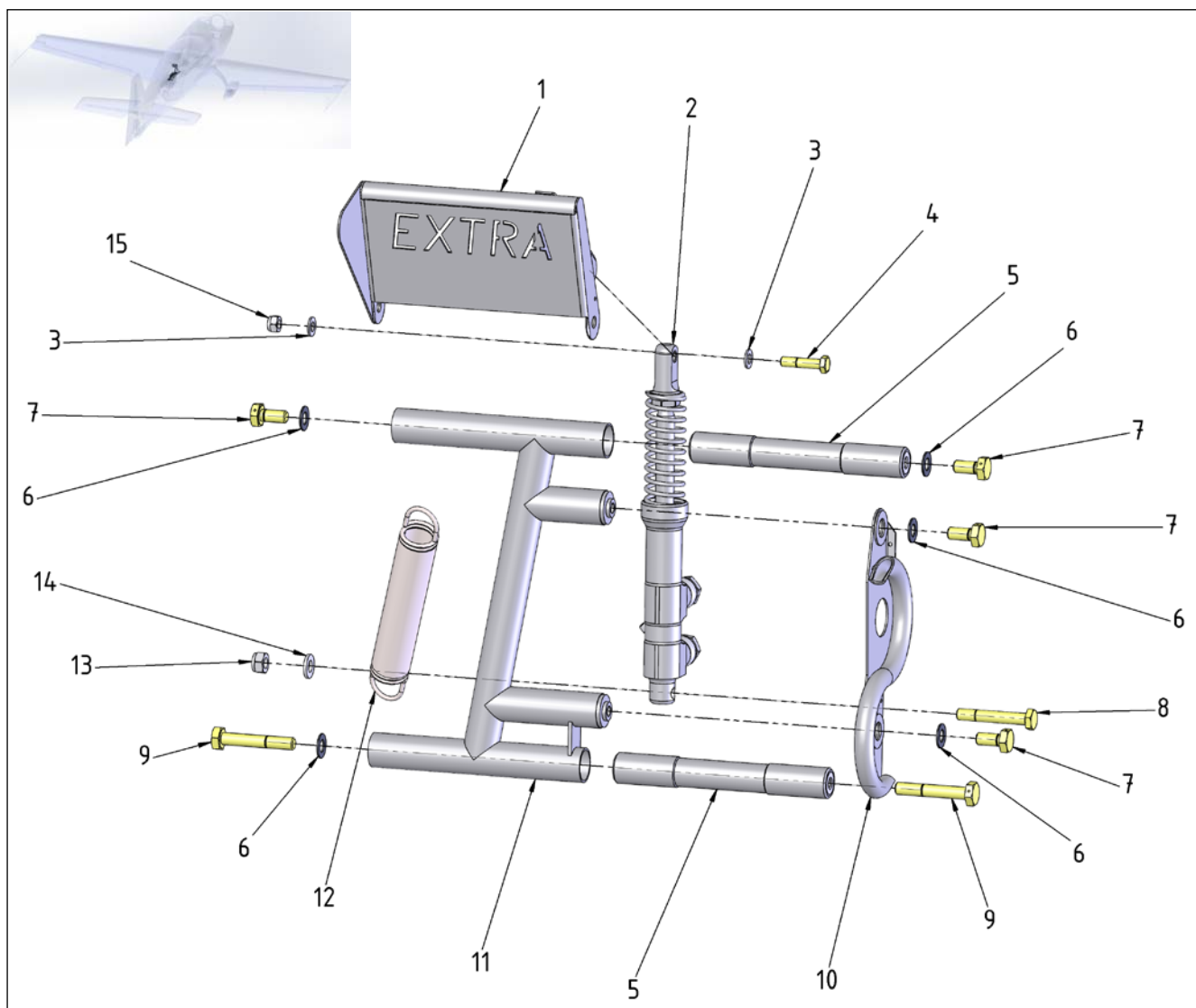


Figure 27-32 Rear Pedal LH - Pedal

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Footrest (Rear Pedal LH)

4	41321.05	Spring Attachment Plate LH	1	
5	41321.03-FB	Footrest Plate AFT LH	1	
		<i>Attaching Parts</i>		
1	35222	Bolt #10-32 – 3/4"	4	
2	35162	Clevis Pin MS20392-2C39	1	
3	149	Washer AN960-10L	5	

6	41321.30-FB	Bracket Pedal LH	1	
11	41321.01	Pedal Mount Stationary (FWD)	1	
		<i>Attaching Parts</i>		
7	00204	Bolt AN3-15A	2	
8	31583	Washer AN960-10	2	
9	00116	3/4 x 1 Fairlead Assembly	1	
10	41322.80	Fairlead Bracket	1	

11	41321.01	Pedal Mount Stationary (AFT)	1	
		<i>Attaching Parts</i>		
3	149	Washer AN960-10L	1	
7	00204	Bolt AN3-15A	2	
8	31583	Washer AN960-10	2	
9	00116	3/4 x 1 Fairlead Assembly	1	
10	41322.80	Fairlead Bracket	1	
12	NA4099	Cotter Pin MS24665-132	1	
13	35163	Clevis Pin MS20392-2C41	1	

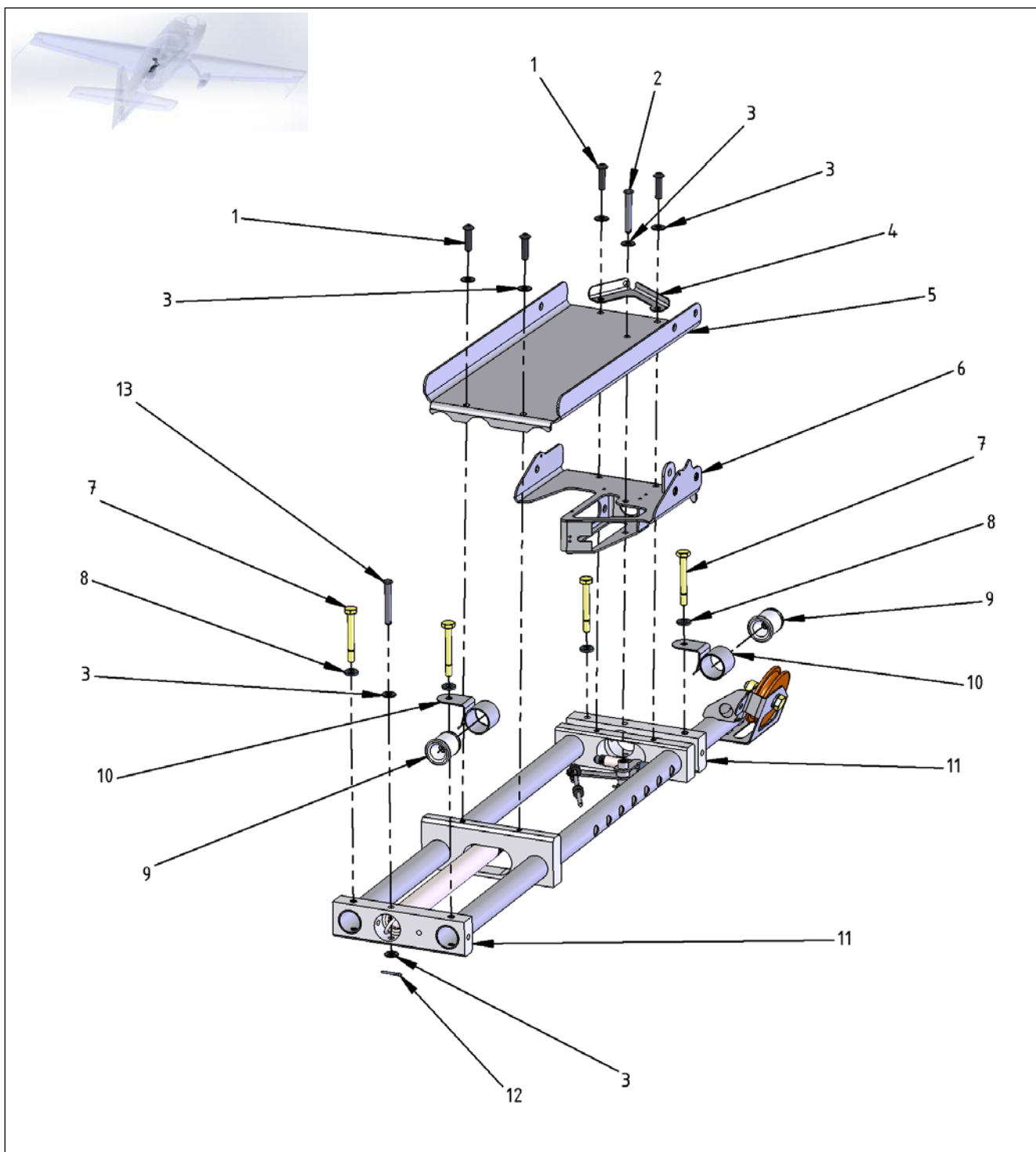


Figure 27-33 Rear Pedal LH - Footrest

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
Base (Rear Pedal LH)			
1	41321.08	Rear Pedal Mount FWD	1
6	41321.50-FB	Pedal Rail Tube Assembly LH	1
18	31583	Washer AN960-10	1
19	00202	Bolt AN3-3A	1
4	02453	Pulley MS24566-3B	1
<i>Attaching Parts</i>			
2	NA4150	Nut MS21044N4	1
3	25090	Washer AN960-416	2
5	78	Bolt AN4-11A	1

7	41321.90-FB	Lever Pedal Adjustment	1
<i>Attaching Parts</i>			
8	149	Washer AN960-10L	1
9	NL4223	Cotter Pin LN94-20012	1

11	35161	Spring Ø 2,5 x 18,5 x 179 mm / 270°	1
12	41321.02	Rear Pedal Mount AFT	1
13	41321.07-FB	Pedal Rail Tube	1
14	35249	Bowden Cable AC-CAB1-3-0750-048	1
<i>Attaching Parts</i>			
10	00937	Washer DIN 988 6 x 12 x 0,5 mm	1
15	35250	R4-0-43922 Clip	1

17	41321.09	Pedal Positioning Pin	1
<i>Attaching Parts</i>			
16	35160	Spring Ø 1 x 7,3 x 25 mm	1

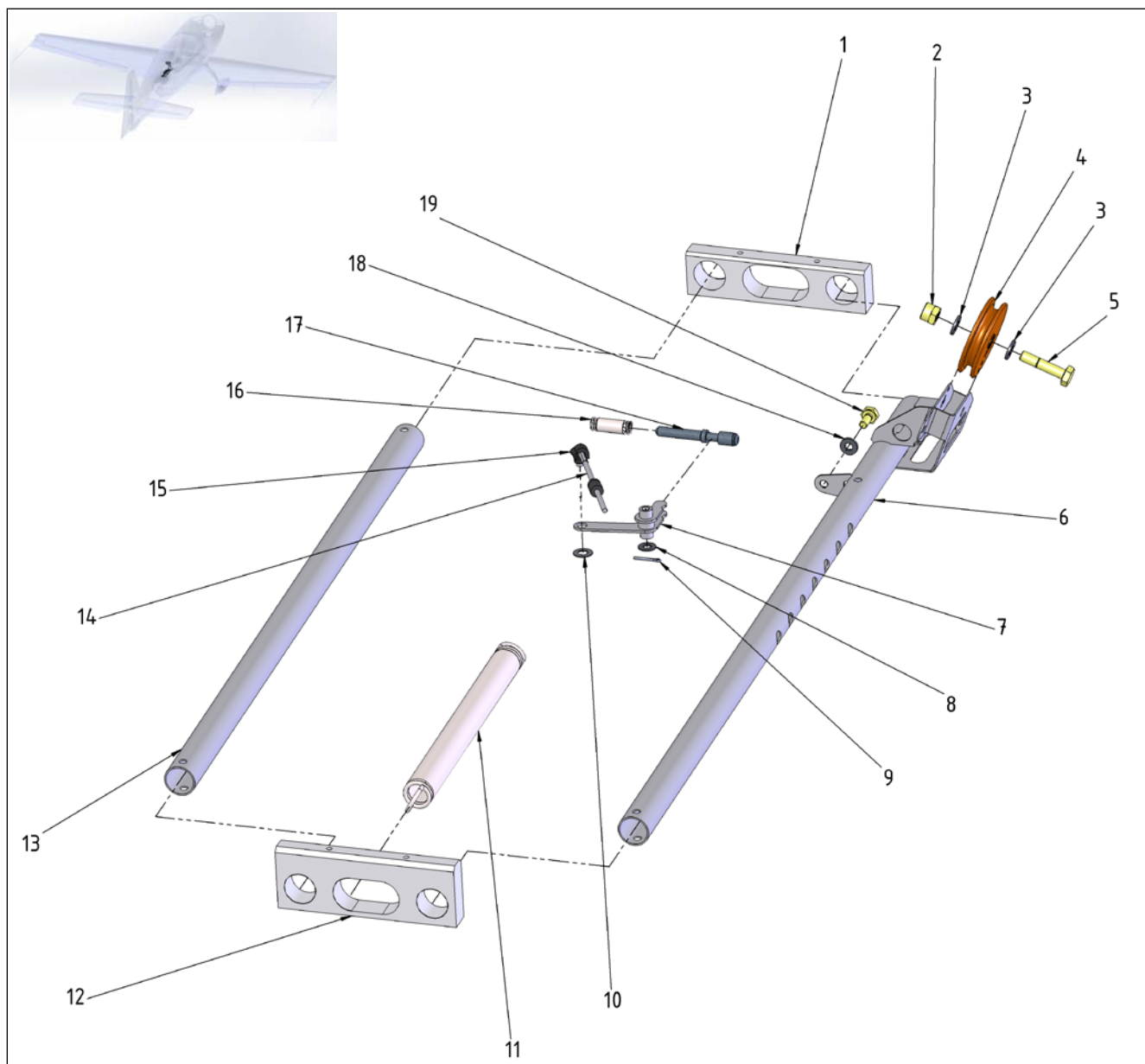


Figure 27-34 Rear Pedal LH - Base

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
Rear Pedal RH			
-	41321.20-VM	Rear Pedal RH pre-assembled	1
Pedal			
1	41322.60-LK	Brake Pedal RH (painted) <i>Attaching Parts</i>	1
5	35083	Washer AN960-416L	2
6	700024	Bolt AN4H-4A	2
-	00781	Safety Wire MS20995-C32 ***	2
7	00201	Spring Ø 2,2 x 20 x 90,9 mm / 180°	1
11	41322.20-LK	Welding Group Pedal RH	1
4	41322.70	Pedal Axle <i>Attaching Parts</i>	2
6	700024	Bolt AN4H-4A	2
10	35083	Washer AN960-416L	1
-	00781	Safety Wire MS20995-C32 ***	2
12	34634	Brake Cylinder MP-003.4N(A) <i>Attaching Parts</i>	1
2	00416	Washer DIN125-5,3 mm	2
3	00076	Nut LN9348-05	1
8	00417	Washer DIN125 6,4 mm	2
9	00077	Nut LN9348-06	1
14	00053	Bolt LN9037-06038	1
15	00034	Bolt LN9037-05022 ***	1
13	41322.40-LK	Cable Guide RH (painted) <i>Attaching Parts</i>	1
6	35236	Bolt AN4H-14A	2
10	35083	Washer AN960-416L	2
	00781	Safety Wire MS20995-C32 ***	2

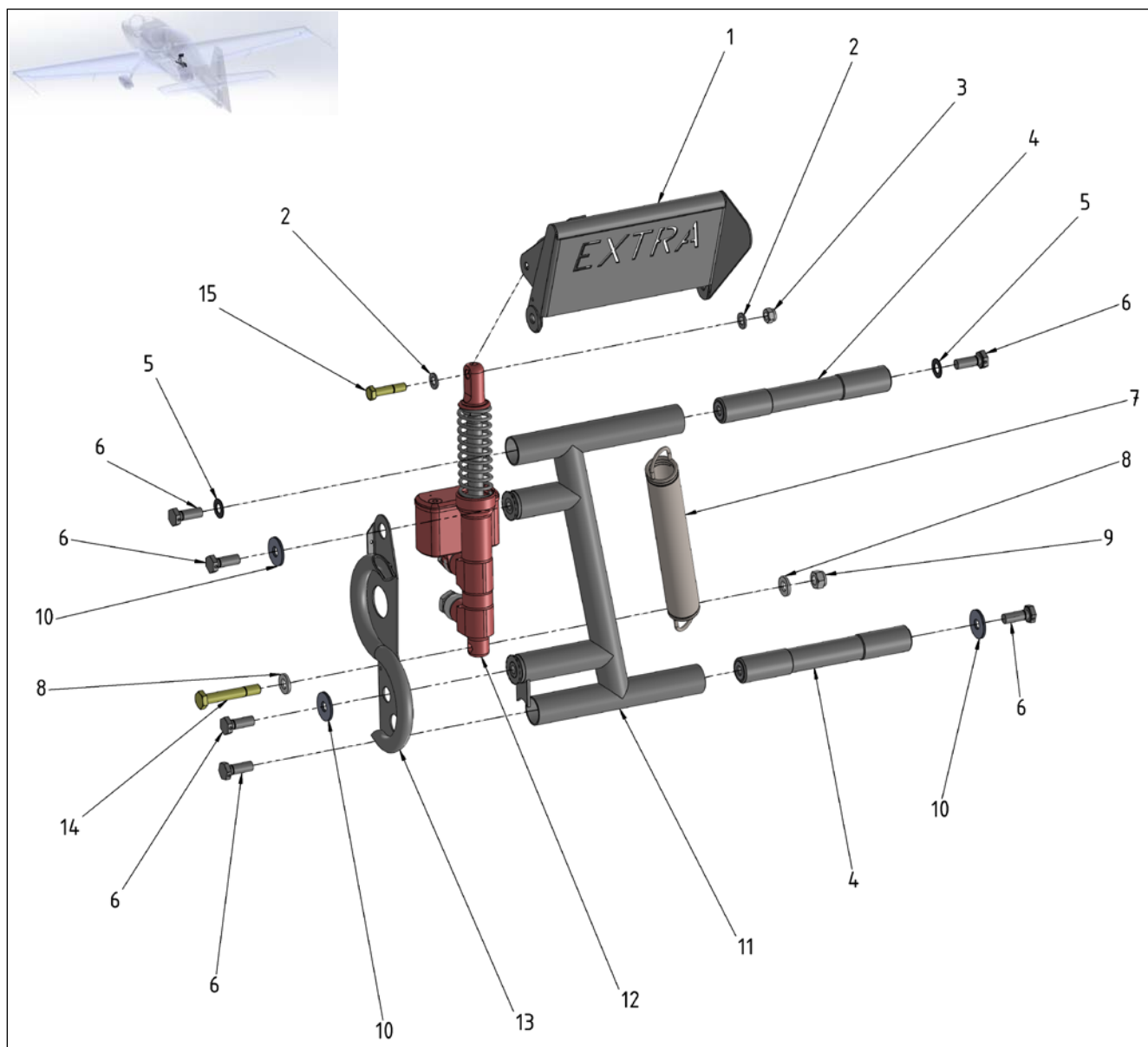


Figure 27-35 Rear Pedal RH - Pedal

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
Footrest (Rear Pedal RH)				
4	41321.06	Spring Attachment Plate RH	1	
5	41321.04-FB	Footrest Plate RH	1	
		<i>Attaching Parts</i>		
1	35222	Bolt #10-32 – 3/4"	4	
2	35162	Clevis Pin MS20392-2C39	1	
3	149	Washer AN960-10L	5	

6	41321.40-FB	Bracket Pedal RH	1	
14	41321.01	Pedal Mount Stationary (FWD)	1	
10	46303.207-LK	Fairlead Bracket	1	
11	00116	3/4 x 1 Fairlead Assembly	1	
		<i>Attaching Parts</i>		
8	00204	Bolt AN3-15A	4	
9	31583	Washer AN960-10	1	

13	41321.01	Pedal Mount Stationary (AFT)	1	
10	46303.207-LK	Fairlead Bracket	1	
11	00116	3/4 x 1 Fairlead Assembly	1	
		<i>Attaching Parts</i>		
3	149	Washer AN960-10L	2	
7	35163	Clevis Pin MS20392-2C41	1	
12	NA4099	Cotter Pin MS24665-132	1	
8	00204	Bolt AN3-15A	4	
9	31583	Washer AN960-10	1	

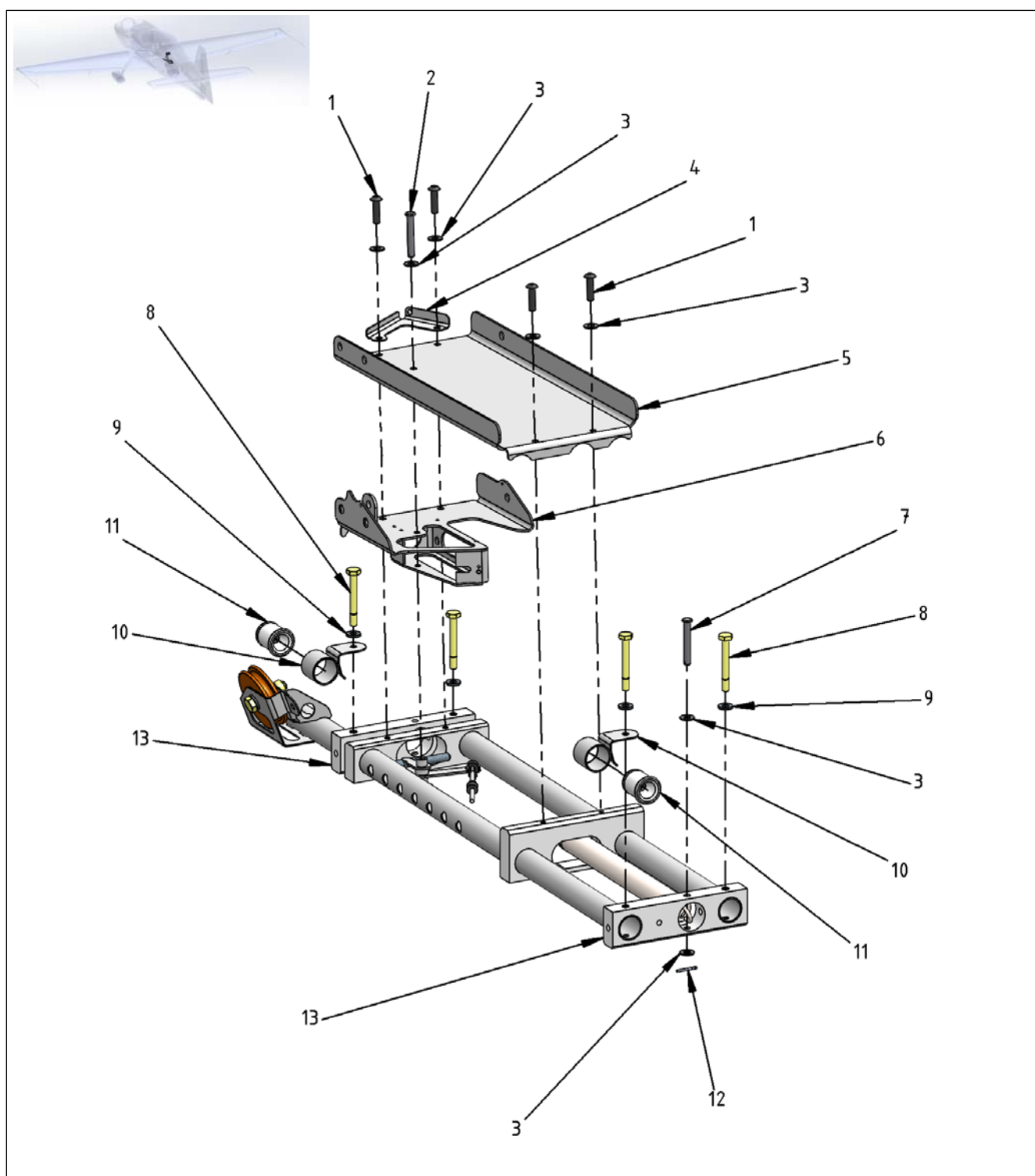


Figure 27-36 Rear Pedal RH - Footrest

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
Base (Rear Pedal RH)				
1	41321.08	Pedal Mount FWD	1	
4	41321.09	Pedal Positioning Pin	1	
<i>Attaching Parts</i>				
5	35160	Spring Ø 1 x 7,3 x 25 mm ***	1	
7	35249	Bowden Cable AC-CAB1-3-0750-048 <i>Attaching Parts</i>	1	
6	35250	R4-0-43922 Clip	1	
11	00937	Washer DIN 988 6 x 12 x 0,5 mm ***	1	
8	41321.07-FB	Pedal Rail Tube	1	
9	35161	Spring Ø 2,5 x 18,5 x 179 mm / 270°	1	
10	41321.02	Pedal Mount AFT	1	
13	41321.60-FB	Pedal Rail Tube Assembly RH <i>Attaching Parts</i>	1	
2	00202	Bolt AN3-3A	1	
3	31583	Washer AN960-10 ***	1	
18	02453	Pulley MS24566-3B <i>Attaching Parts</i>	1	
16	25090	Washer AN960-416	2	
17	78	Bolt AN4-11A	1	
19	NA4150	Nut MS21044N4 ***	1	
15	41321.90-FB	Lever Pedal Adjustment <i>Attaching Parts</i>	1	
12	NL4223	Splint LN94-20012	1	
14	149	Washer AN960-10L ***	1	

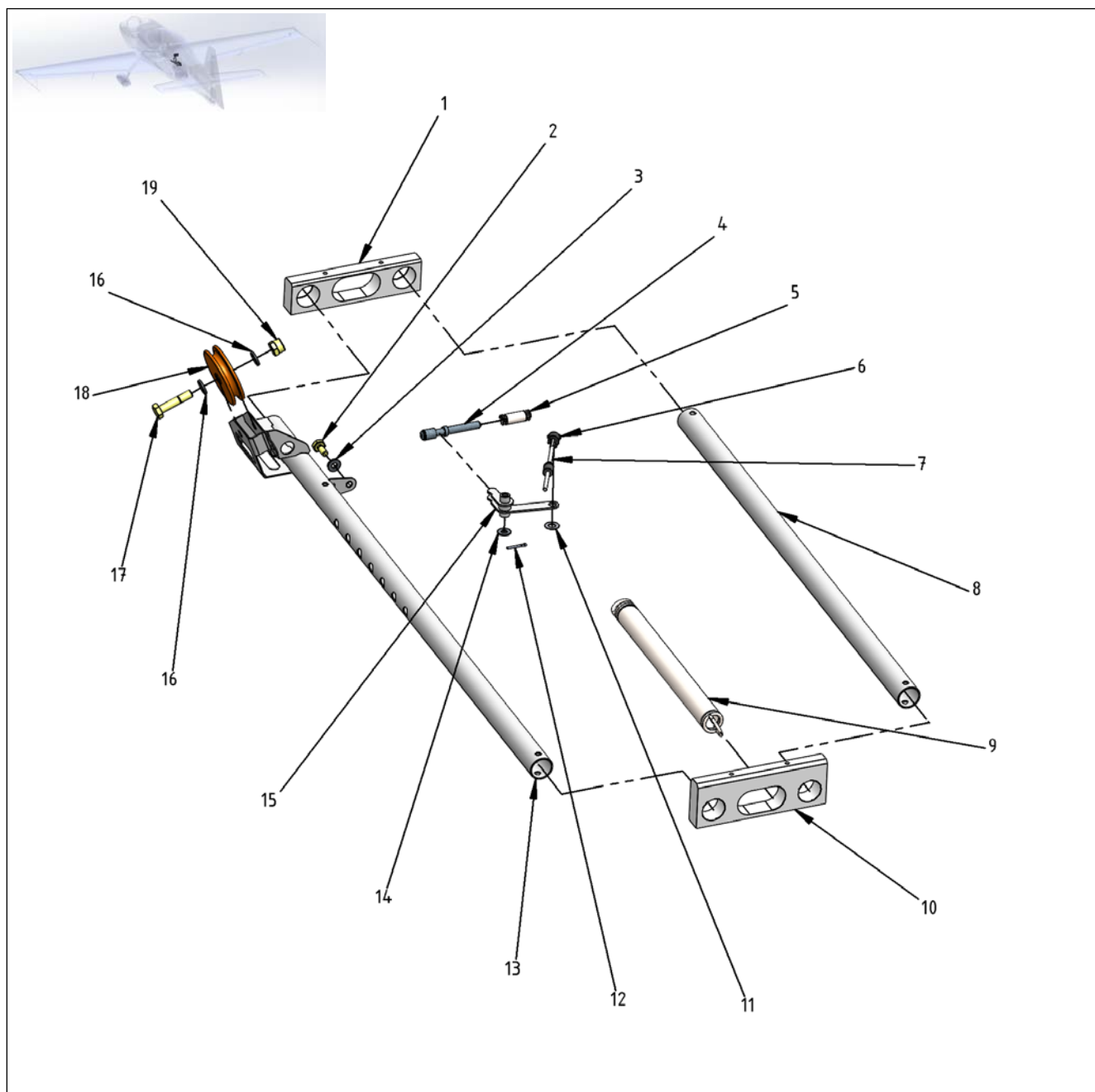


Figure 27-37 Rear Pedal RH - Base

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
27-30		Elevator & Tab		

		Elevator		
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1	31400.00-LV	Elevator (prepared for painting)	1	
4	31622.01	. Elevator Actuator	1	
		<i>Attaching Parts</i>		
2	00763	Bolt AN4-23A	2	
3	35088	Washer MS15795-810	2	
5	04247	Nut AN365-428	2	
6	35083	Washer AN960-416L	2	

9	31612.01	Bearing Attachment	4	
		<i>Attaching Parts</i>		
7	79	Bolt AN4-12A	2	
8	35083	Washer AN960-416L	2	

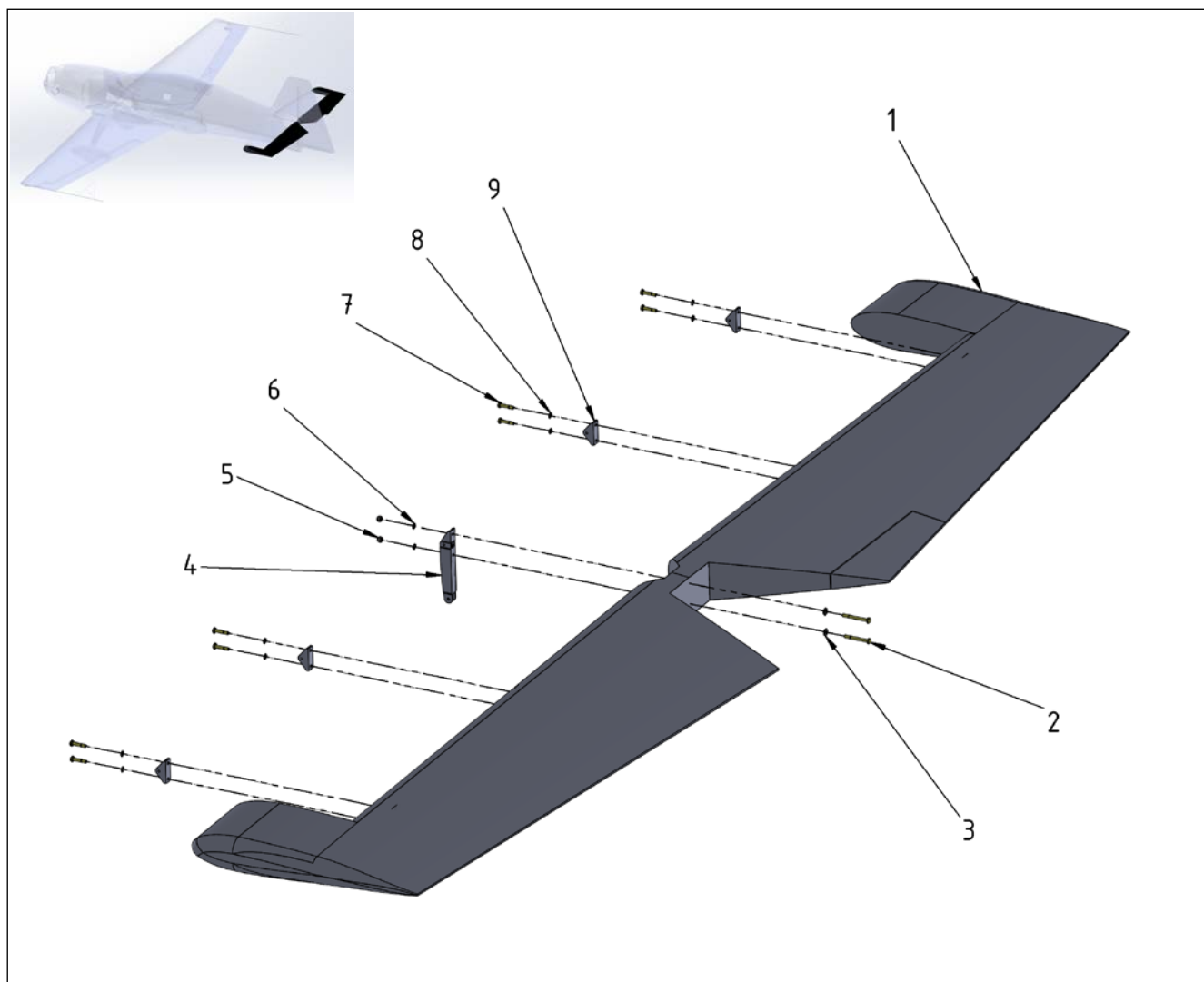


Figure 27-38 Elevator & Tab - Elevator

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Trim Tab

1	31500.00-LV	Trim Tab (prepared for painting)	1	
<i>Attaching Parts</i>				
2	31033.00	Hinge Pin	2	

-	31530.00-VM	. Trim Rudder Knuckle Pin	1	
3	00076	.. Nut LN 9348	2	
4	00936	.. Washer DIN9021 5,3 x 15 x 1,2 mm	2	
5	NL4123	.. Nut LN9342 A 08	1	
6	31531.00	.. Bolt Trim Rudder Knuckle Pin	1	
7	31532.00	.. Threaded Pin	1	

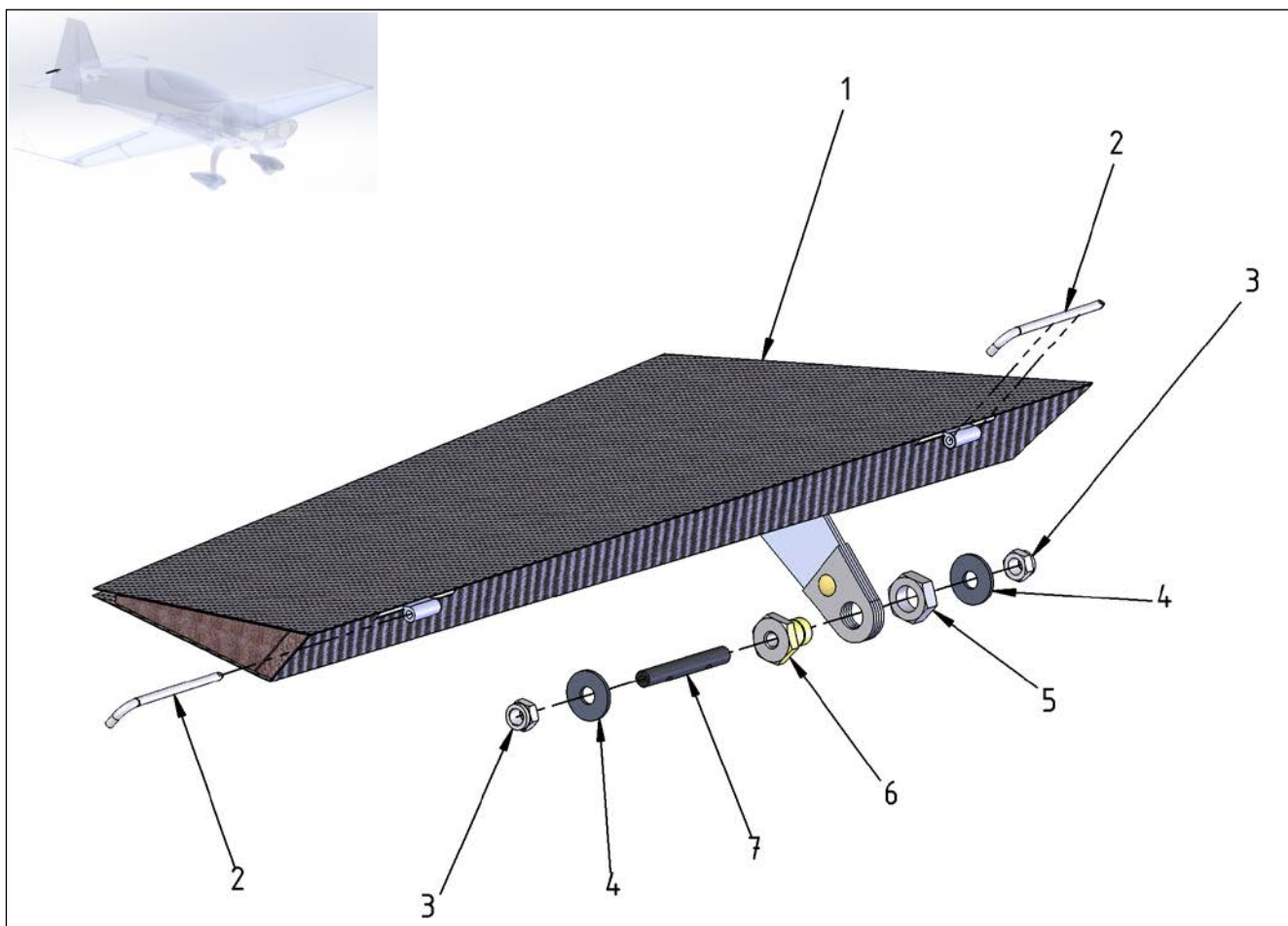


Figure 27-39 Elevator & Tab – Trim Tab

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
Trim Control			
14	41411.00-VM	Support Trim Control pre-assembled	1
1	00077	. Nut LN9348-06	2
2	00417	. Washer DIN125 6,4	2
3	41411.09	. Threaded Pin	1
4	01109	. Nut B M6 DIN439-04	2
5	00937	. Washer DIN 988 6 x 12 x 0,5 mm	2
6	41411.04	Trim Lever	1
<i>Attaching Parts</i>			
8	00048	Bolt LN9037-06028	1
1	00077	Nut LN9348-06	1
2	00417	Washer DIN125 6,4	1
7	41411.05	Bushing Trim	1
21	41411.06	Collar Bushing	1

11	41411.08	Clamp Block Trim	1
<i>Attaching Parts</i>			
9	02252	Bolt AN3-10A	1
10	149	Washer AN960-10L	1

16	31668	Electric Trim System T3-12A	1
<i>Attaching Parts</i>			
12	02289	Bolt DIN912 M3x12	4
13	NL4068	Washer LN9025-0305L	8
15	600001	Nut LN9348-03	4

17	In 31668	. Splint AN381-2-8	2
18	In 31668	. Washer AN960-8L	4
19	In 31668	. Bolt AN392-15	2
20	In 31668	. Trim Servo Rod	1
-	31200.01-VM	Trim Cable pre-assembled	1

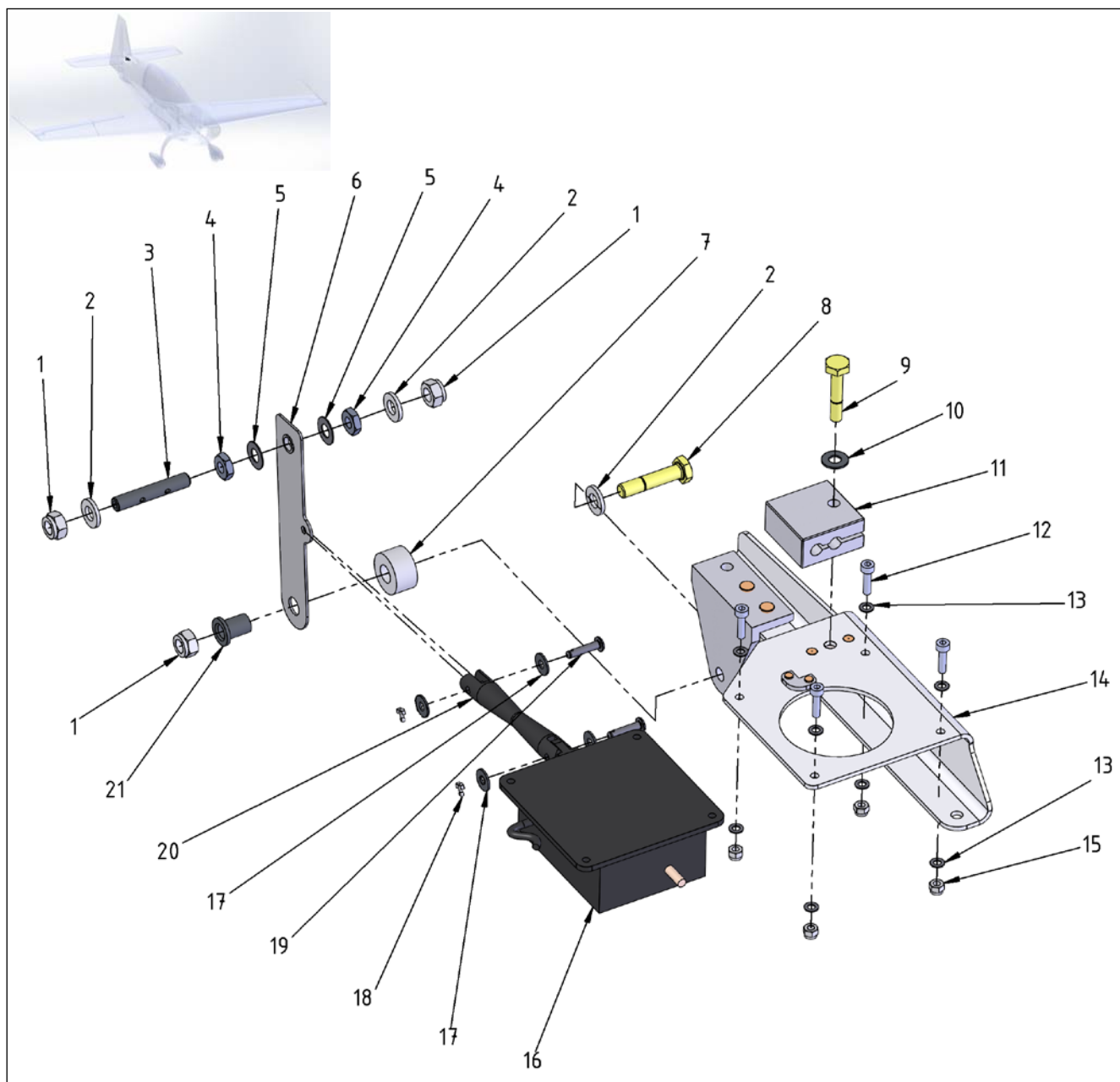


Figure 27-40 Elevator & Tab – Trim Control

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28

Fuel

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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28-10

Storage

Center Tank

1	61203.10-VM	Center Tank pre-assembled	1	
11	71555.20-VM	Ground. Cable CT - AT	2	
12	71555.10-VM	Ground. Cable Fuel Filler - CT	1	
<i>Attaching Parts</i>				
3	00589	Bolt AN3-4A	1	
13	33008	Washer AN960-10L	2	
14	88	Nut MS20364-1032	1	

5	35000	. Fuel Level Sensor	1	
<i>Attaching Parts</i>				
-	36092	Bolt DIN933 M5x35	5	
-	00298	Paper washer 11x4,7x0,6	5	

6	00869	. Fitting, flared to NPT, 45° MS20823-8D	1	
15	00167	. Fitting, flared to NPT, 45° MS20823-4D	1	
16	00155	. Fitting, flared to NPT, 90° MS20822-4D	1	
2	61203.60-VM	Fixation Bracket Center Tank	1	
<i>Attaching Parts</i>				
3	00589	Bolt AN3-4A	3	
4	NL4154	Washer LN29952-0515M	3	

7	61203.30-LK	Tension Strip Center Tank	1	
10	61203.40-VM	Mounting Bracket Center Tank	1	
<i>Attaching Parts</i>				
8	04247	Nut MS20365-428	2	
9	NL4074	Washer LN29952-0615M	2	

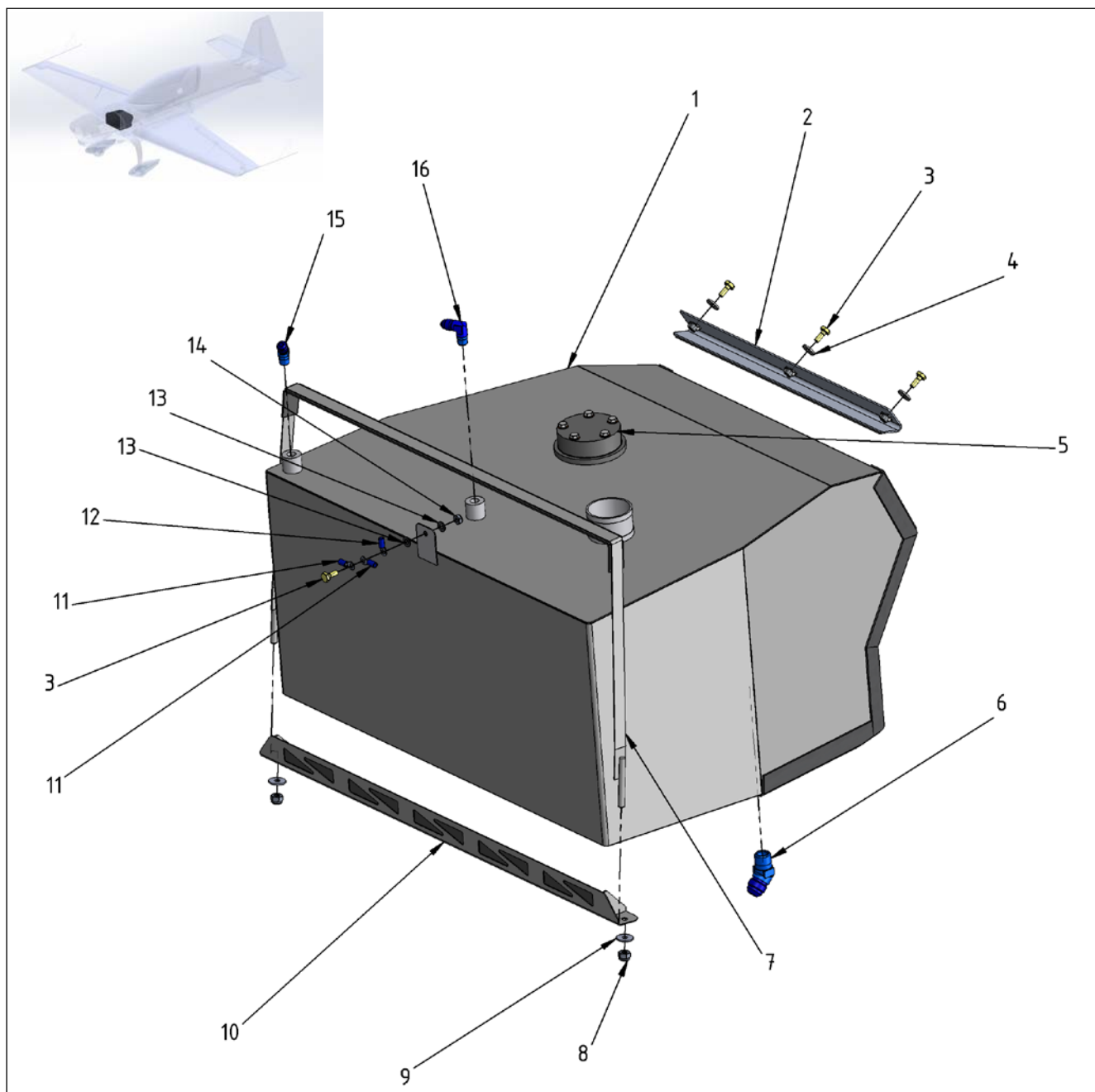


Figure 28-1 Storage – Center Tank

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
Acro Tank			
1	61204.10-VM	Acro Fuel Tank pre-assembled	1
17	71555.40	Ground. Cable AT – Gr. Plate	1
<i>Attaching Parts</i>			
3	149	Washer AN960-10L	3
16	00202	Bolt AN3-3A	1
18	88	Nut MS20364-1032	1

6	61204.12	. Flop Tube Head	1
7	61204.11	. Flop Tube Hose (232mm)	1
8	61204.13	. Flop Tube Fitting	1
10	00155	. Fitting, flared to NPT, 90° MS20822-4D	1
14	00163	. Fitting, flared to NPT, 90° MS20822-8D	1
15	00164	. Fitting, flared to NPT, 90° MS20822-6D	1
19	00167	. Fitting, flared to NPT, 45° MS20823-4D	1
4	61204.30-VM	Tension Strip Acro Tanks	1
<i>Attaching Parts</i>			
2	00204	Bolt AN3-5A	1
3	149	Washer AN960-10L	3
5	00589	Bolt AN3-4A	2
9	NL4154	Washer LN 29952-0515M (as required)	*

11	61204.52-VM	Angle Section front RH (incl. Rubber Pads)	1
<i>Attaching Parts</i>			
5	00589	Bolt AN3-4A	2
9	NL4154	Washer LN29952-0515M	2
12	88	Nut MS20364-1032	1
13	00416	Washer DIN125 5,3 x 10 x 1,0 mm	1

-	71555.30	Ground. Cable AT – AT	1

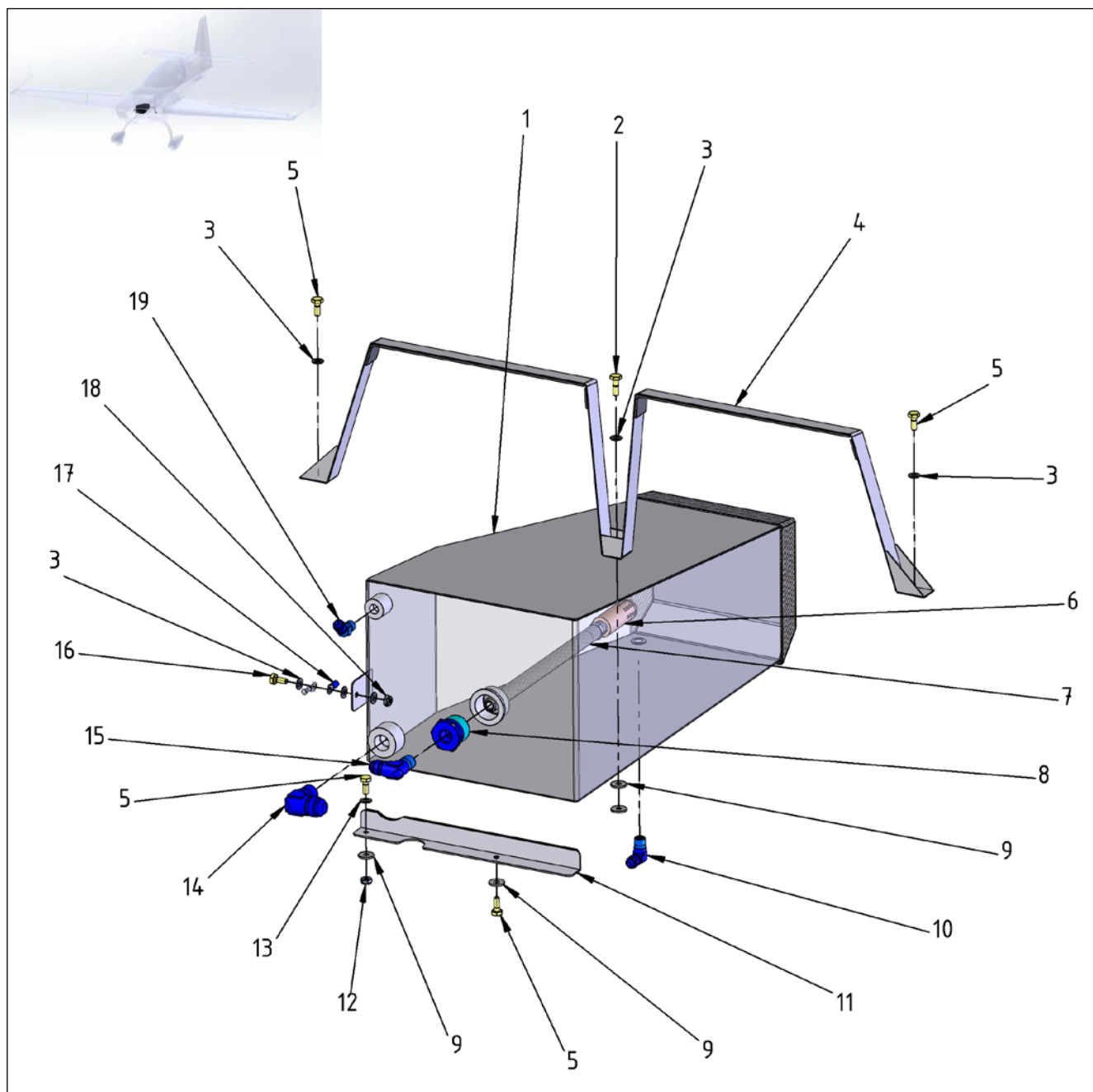


Figure 28-2 Storage – Acro Tank

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Wing Tank Inspection Door with Outlets

LH

1	1E104.002-VB	Flat Tank Cover LH with Fuel Level Sensor	1	
4	13109.1-05	Grounding Cable	2	
		<i>Attaching Parts</i>		
2	00936	Washer DIN9021 5,3 x 15 x 1,2 mm	2	
3	24815	Nut DIN439-M5	1	
5	00416	Washer DIN125 5,3 mm	1	
6	00076	Nut LN9348-05	1	
7	13104.004	Inspection Door Flange	1	
10	149	Washer AN960-10L	18	
11	00598	Bolt AN3-A4	18	
18	00036	Bolt LN9037-05026	1	

-	FM4006	. Fuel Level Sensor (Wing)	1	
15	61202.10	Fuel Tank Outlet	1	
		<i>Attaching Parts</i>		
8	01852	Washer AN960C-916	2	
9	00170	Union Fitting AN832-06D	1	
14	00160	Nut AN818-6D	1	

17	64202.004-VB-L	Drainer Left	1	
		<i>Attaching Parts</i>		
12	00171	Union Fitting AN832-04D	1	
13	00810	Washer AN960-C716	2	
16	00178	Nut AN924-4D	1	

19	63202.003-VB	Fuel Tank Air Vent	1	
		<i>Attaching Parts</i>		
8	01852	Washer AN960C-916	2	
9	00170	Union Fitting AN832-06D	1	
14	00160	Nut AN818-6D	1	

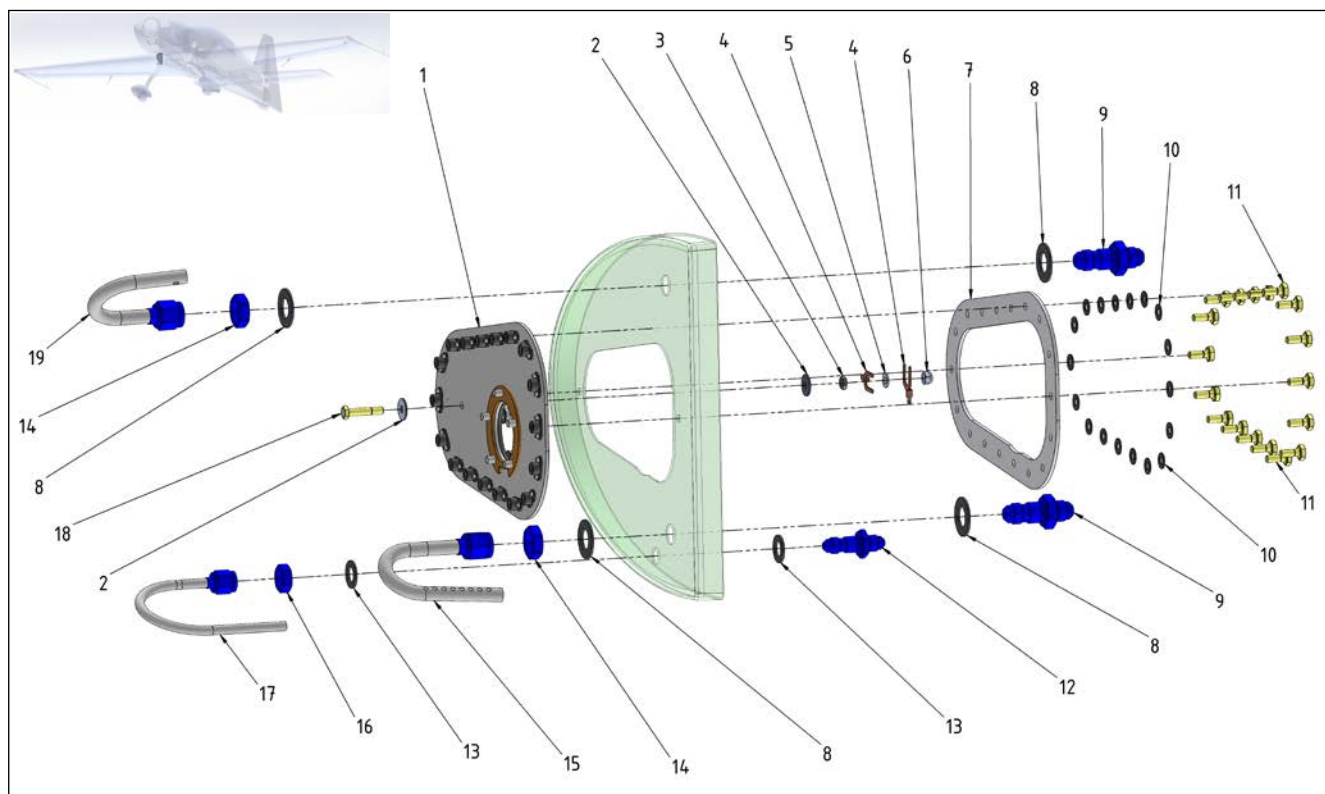


Figure 28-3 Storage - Wing Tank Inspection Door with Outlets - LH

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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RH (Wing Tank Inspection Door)

1	13104.003-VB	Flat Tank Cover RH with Fuel Level Sensor	1	
17	13109.1-05	Grounding Cable	2	
		<i>Attaching Parts</i>		
2	00936	Washer DIN9021 5,3 x 15 x 1,2 mm	2	
3	00036	Bolt LN9037-05026	1	
13	13104.004	Inspection Door Flange	1	
14	149	Washer AN960-10L	18	
15	00598	Bolt AN3-A4	18	
16	00076	Nut LN9348-05	1	
18	00416	Washer DIN125 5,3 mm	1	
19	24815	Nut DIN439-M5	1	

-	FM4006	. Fuel Level Sensor (Wing)	1	
4	63202.003-VB	Fuel Tank Air Vent	1	
		<i>Attaching Parts</i>		
5	00160	Nut AN818-6D	1	
6	01852	Washer AN960C-916	2	
12	00170	Union Fitting AN832-06D	1	

7	64202.004-VB-R	Drainer Right	1	
		<i>Attaching Parts</i>		
8	00178	Nut AN924-4D	1	
9	00810	Washer AN960-C716	2	
11	00171	Union Fitting AN832-04D	1	

10	61202.10	Fuel Tank Outlet	1	
		<i>Attaching Parts</i>		
5	00160	Nut AN818-6D	1	
6	01852	Washer AN960C-916	2	
12	00178	Union Fitting AN832-06D	1	

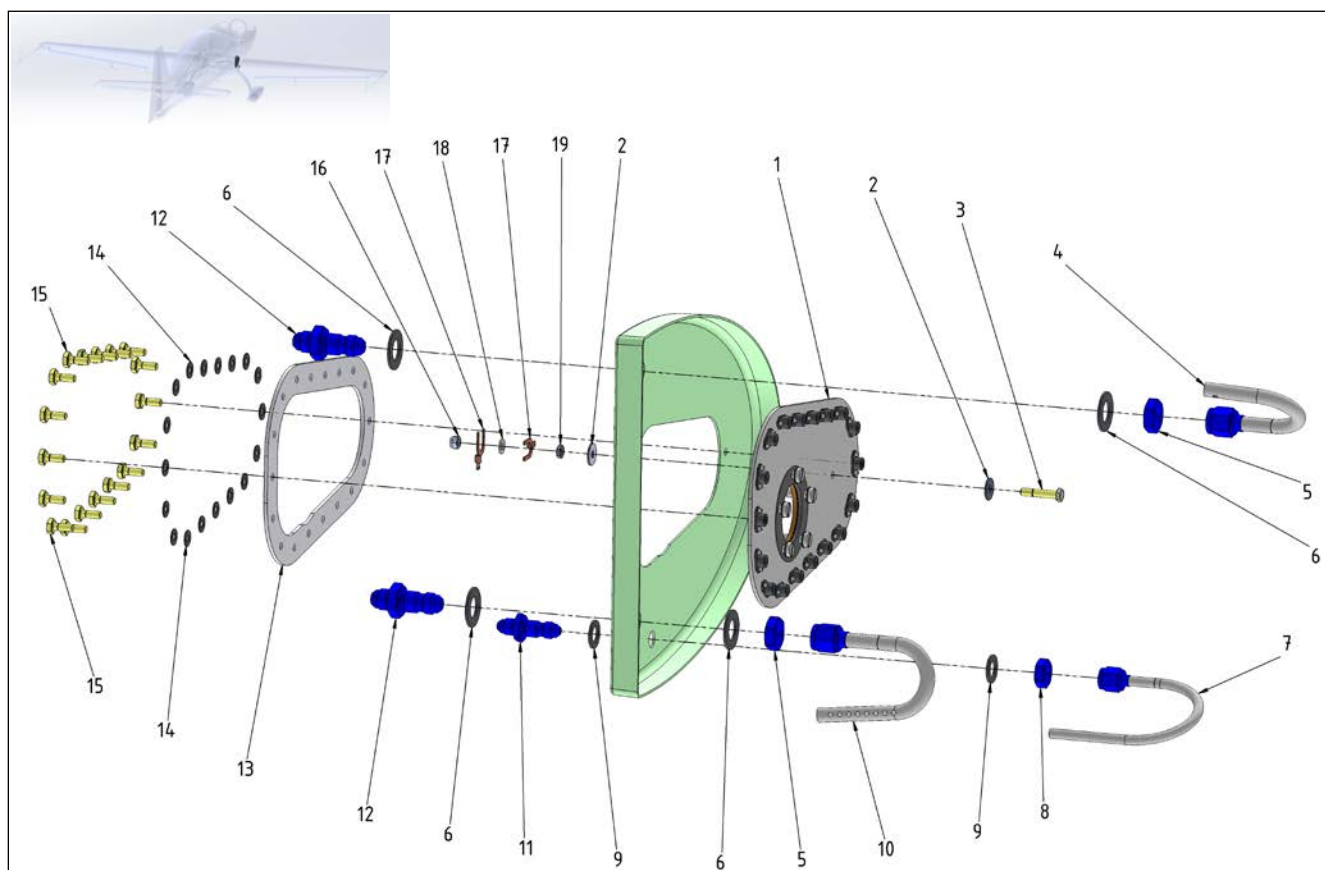


Figure 28-4 Storage - Wing Tank Inspection Door with Outlets - RH

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Center Tank Filler Neck

1	61203.51	Fuel Filler Cap	1	
3	35166	O-Ring MS29513-220	1	
4	61203.52	Fuel Filler Neck	1	
-	71555.10-VM	Ground Cable Fuel Filler - CT	1	
<i>Attaching Parts</i>				
2	178	Bolt MS24694-C52	5	

6	61203.53-VM	Fuel Filler Hose CT	1	
<i>Attaching Parts</i>				
5	03063	Hose Clamp NORMA 40-60 mm	2	

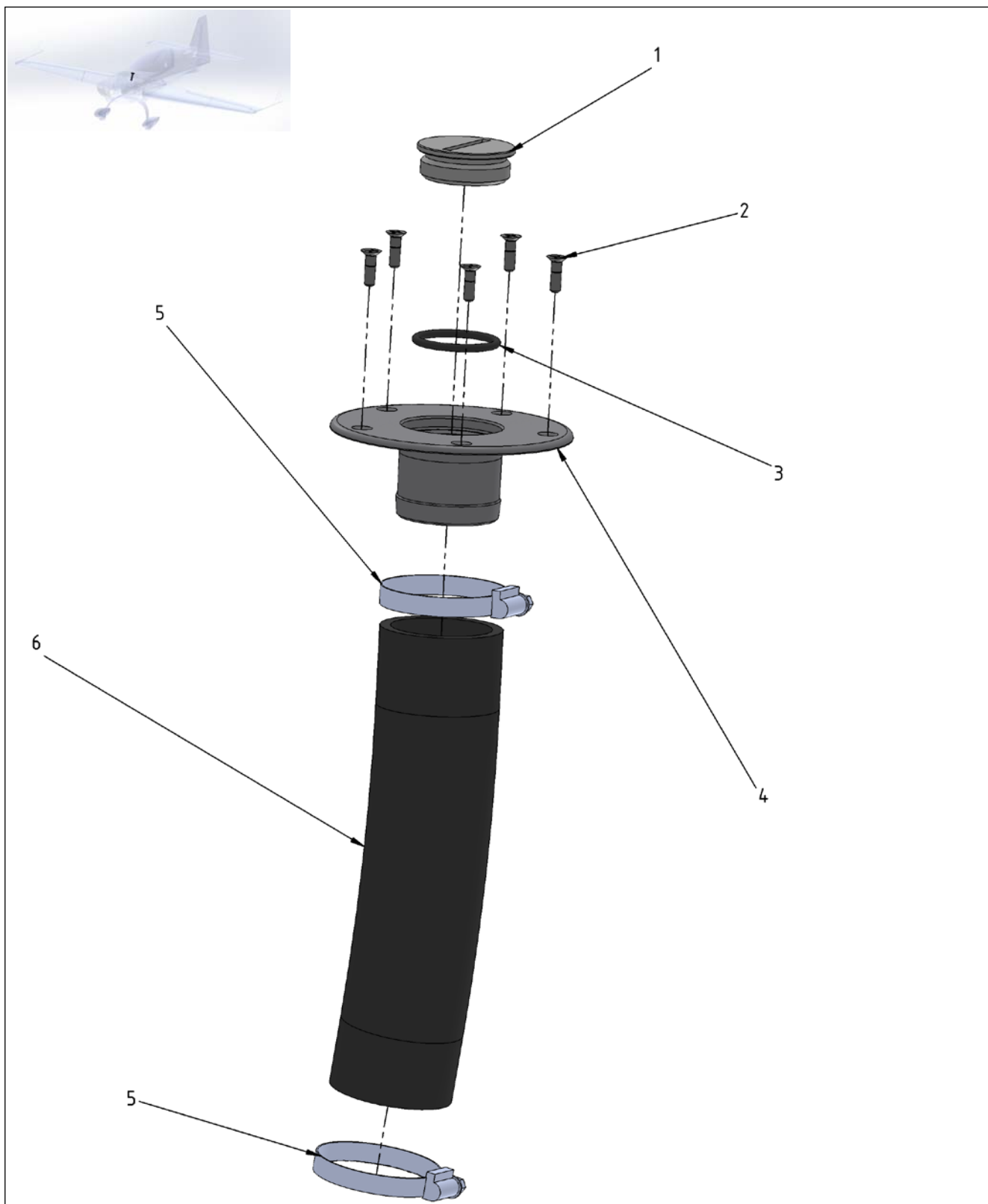


Figure 28-5 Storage – Center Tank Filler Neck

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Wing Tank Filler Neck with Sealing Lip

1	13107.001-02	Filler Cap	2	
2	34765	. O-Ring MS29513-222	2	
3	13107.001-01	. Filler Neck	2	
4	13107.001-04	. Sealing Lip	2	
7	13107.001-03	. Filler neck lock ring	2	
<i>Attaching Parts</i>				
5	03522	. Expanding Rivet Ø4,8mm Polyamide	6	
6	ND4171	. Washer DIN125-5,3 Polyamide	6	

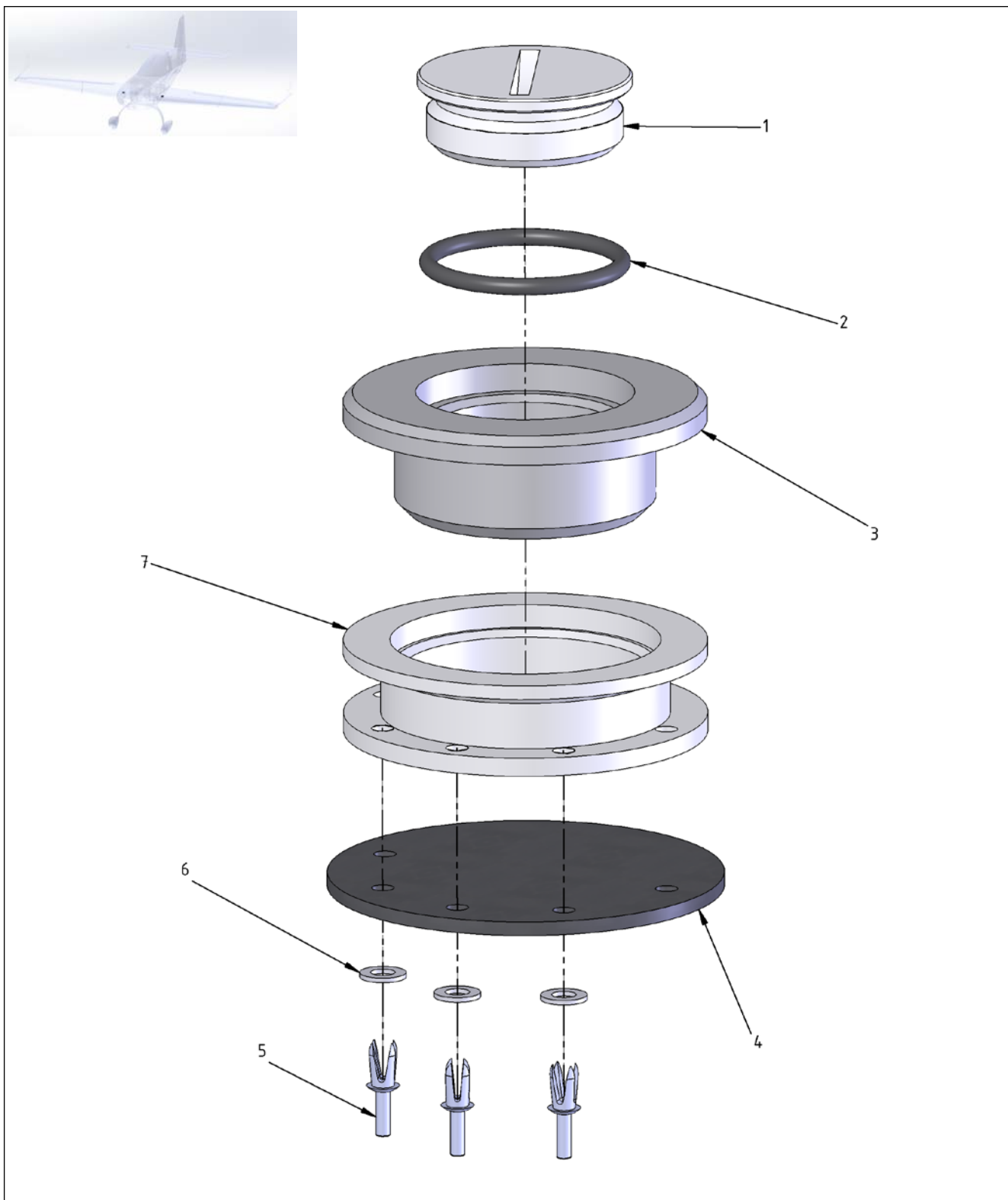


Figure 28-6 Storage – Wing Tank Filler Neck with Sealing Lip

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Ventilation Line

Center Tank

3	61214.11	Vent Line Hose	1	
1	61214.10-VM	Vent Line Assembly CT	1	
2	61213.91	Drain Tube	1	
4	61214.20-VM	Vent Line Acro Fuel Tank	1	

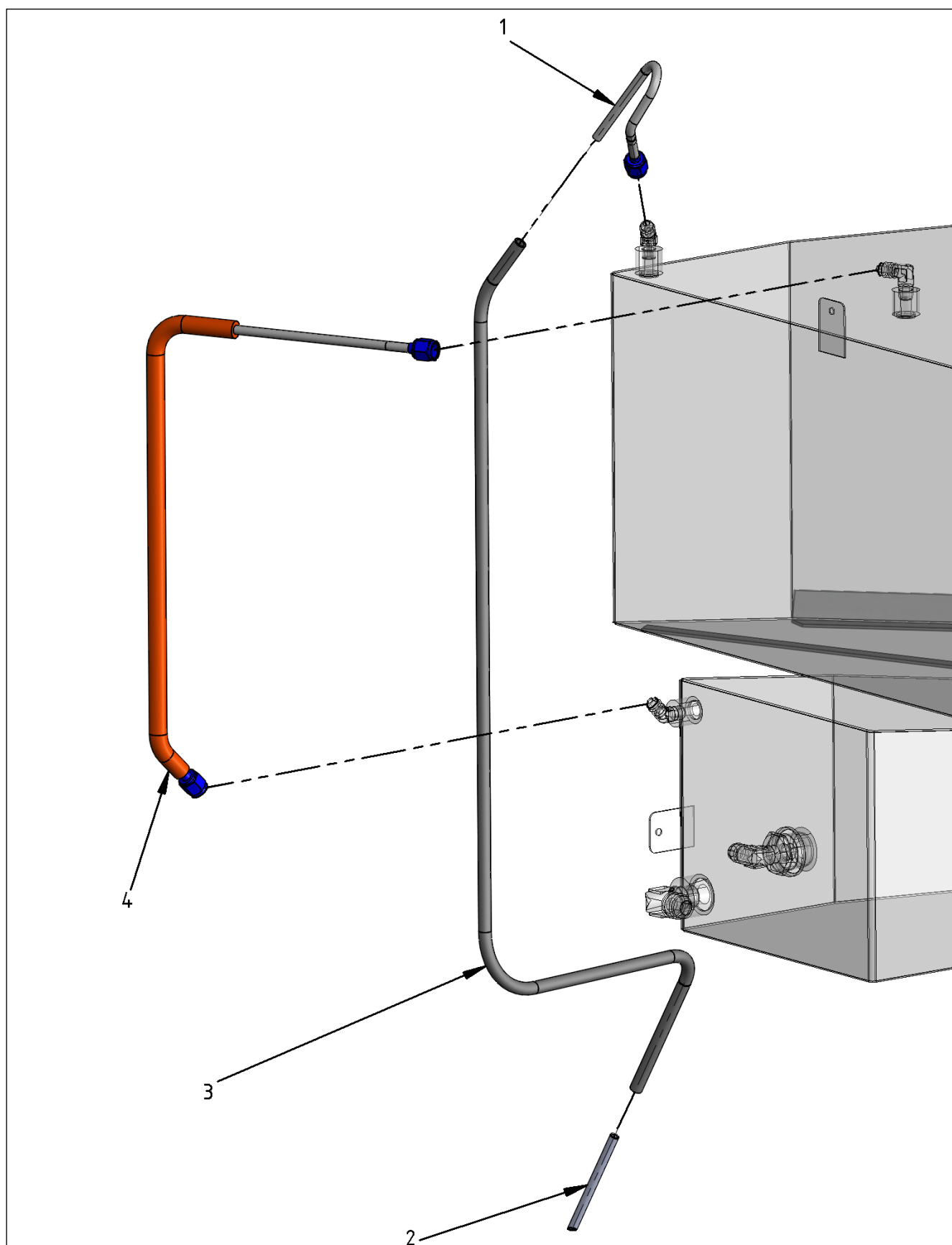


Figure 28-7 Ventilation Line – Center Tank

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Wing Tanks

1	61215.30-VM	Vent Line Wing Tank Left	1	
2	00168	T-Fitting AN824-6D	1	
3	00154	Fitting AN894-D6-4 Bushing Expander	1	
5	61215.40-VM	Vent Line Wing Tank Overboard	1	
<i>Attaching Parts</i>				
4	00844	Clamp MS21919-WDG4	2	

6	61215.11	Vent Hose Wing Tank	1	
7	61215.20-VM	Vent Line Wing Tank Right	1	
8	61213.91	Drain Tube	1	

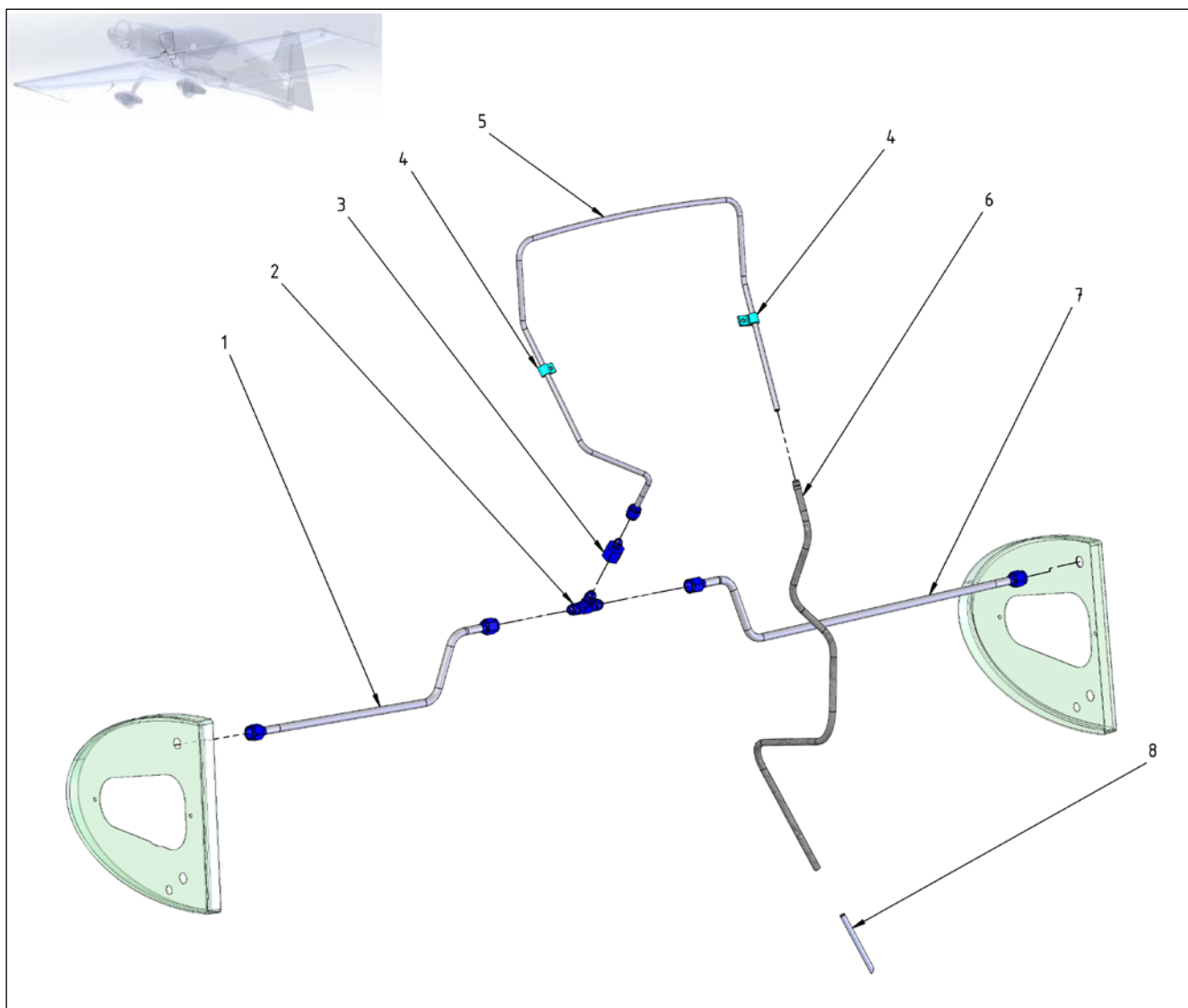


Figure 28-8 Ventilation Line – Wing Tanks

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Tank Compartment Vent

1	61501.31	Tank Compartment Ventilation Air Inlet	1	
<i>Attaching Parts</i>				
2	35213	Grommet MS35489-149	1	
3	03180	Clamp MS21919WDG7	1	
4	35384	Bolt NAS1352-08-6P	2	
5	84	Washer AN960-C8L	4	
6	61501.32	Sickle Plate	2	
7	30970	Nut MS21042-08	2	

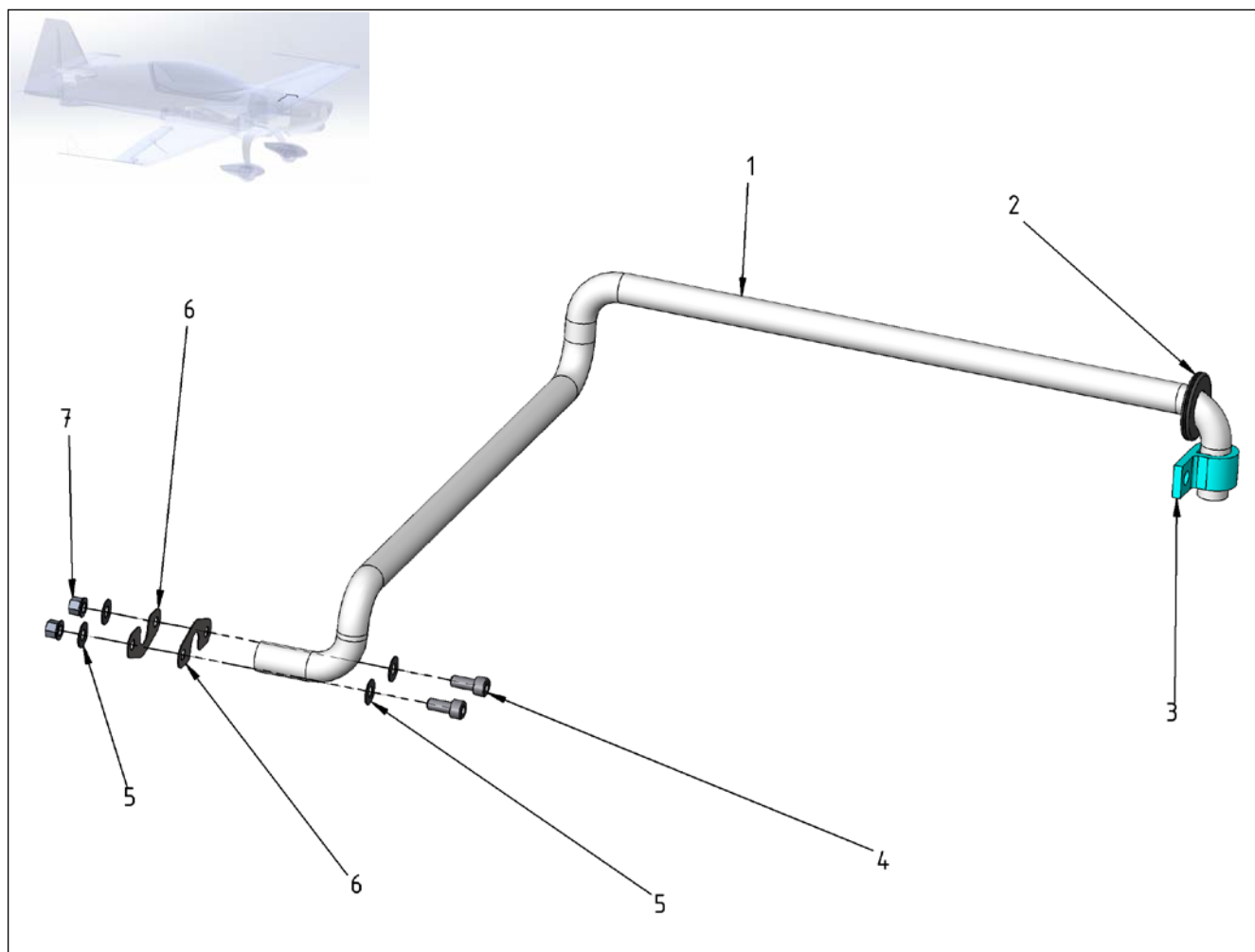


Figure 28-9 Ventilation Line – Tank Compartment Vent

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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28-20

Distribution

Fuel Selector Valve/ Control Rods

-	61206.00-KBS	Fuel Selector Valve Assembly	1	
1	61206.03	Extension Rod FWD	1	
2	35270	Rotary Adaptor	1	
		<i>Attaching Parts</i>		
4	In 35270	Dowel Pin	2	

3	61206.04	Extension Rod Center	1	
5	35269	Universal Joint Female	1	
		<i>Attaching Parts</i>		
4	In 35269	Dowel Pin	2	
9	35154	Flanged Bushing	1	

6	61206.05	Extension Rod AFT	1	
7	35268	Universal Joint	1	
		<i>Attaching Parts</i>		
4	In 35268	Dowel Pin	2	
8	35272	Valve Lever	1	

10	35271	Valve	1	
		<i>Attaching Parts</i>		
11	31513	Bolt MS35214-31	1	
12	34450	Nut MS21042L06	1	

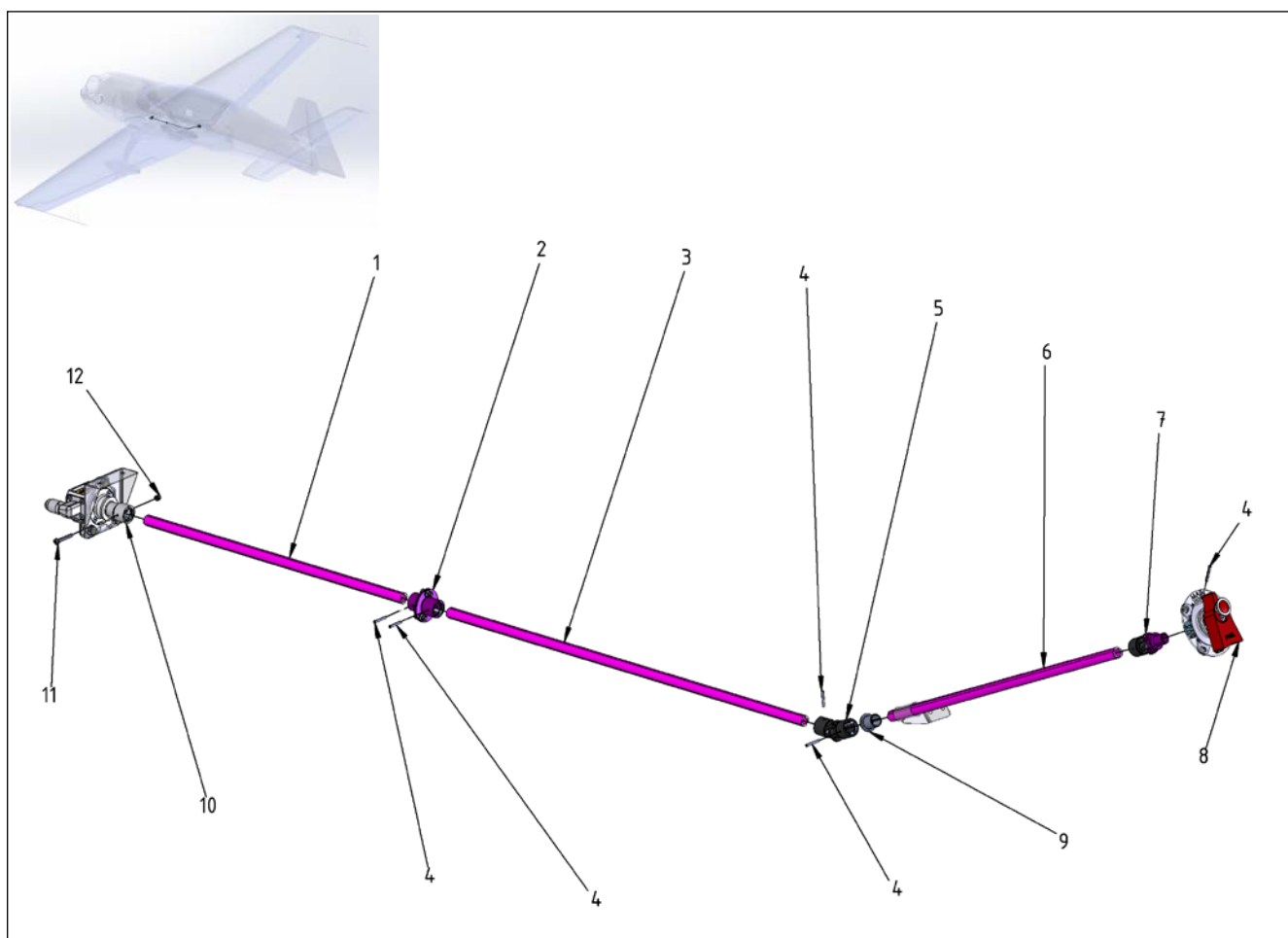


Figure 28-10 Distribution – Fuel Selector Valve/ Control Rods

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Fuel Selector Valve Brackets

1	61206.20-LK	Bracket Fuel Selector Valve Extension aft (painted) <i>Attaching Parts</i>	1	
2	NA4126	Washer AN960C10L	2	
3	00204	Bolt AN3-5A	2	
4	88	Nut 20364-1032	2	
8	31583	Washer AN960-10 ***	2	
7	61206.02	Fascia Plate (engraved) <i>Attaching Parts</i>	1	
4	88	Nut MS20364-1032	4	
5	149	Washer AN960-10L	4	
6	31513	Bolt MS35215-55 ***	4	
9	61206.10-LK	Bracket Fuel Selector Valve Extension FWD (painted) <i>Attaching Parts</i>	1	
4	88	Nut MS20364-1032	2	
5	149	Washer AN960-10L	4	
10	00589	Bolt AN3-4A ***	2	
12	61206.01-LK	Bracket Fuel Selector Valve (painted) <i>Attaching Parts</i>	1	
4	88	Nut MS20364-1032	5	
5	149	Washer AN960-10L	5	
10	00589	Bolt AN3-4A	3	
11	178	Bolt MS24694-C52 ***	2	

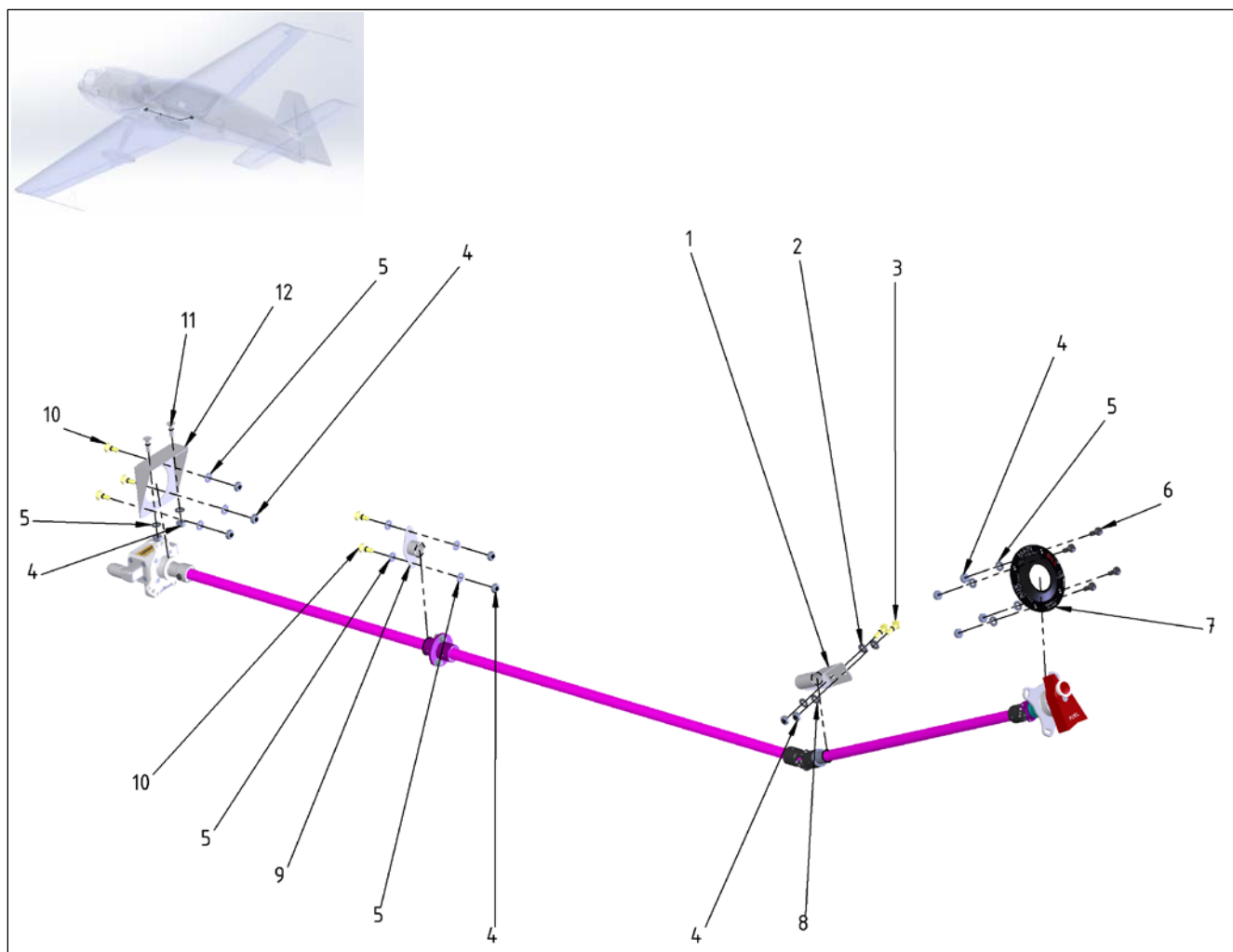


Figure 28-11 Distribution – Fuel Selector Valve Brackets

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Gascolator

1	35168	High Pressure Gascolator	1	
		<i>Attaching Parts</i>		
9	00781	Safety Wire MS20995-C32	1	

10	00164	Fitting MS20822-6D	1	
8	00159	Fitting AN816-4D	1	
11	33528	Plug MS20913-1S	1	
3	02190	Clamp MS21919WDG10	1	
		<i>Attaching Parts</i>		
2	00589	Bolt AN3-4A	1	

7	61205.20-VM	Drain Line Gascolator	1	
4	00155	Fitting MS20822-4D	1	
5	00987	Fitting AN910-1W	1	
6	01211	Drain Valve 1/8" NPT	1	

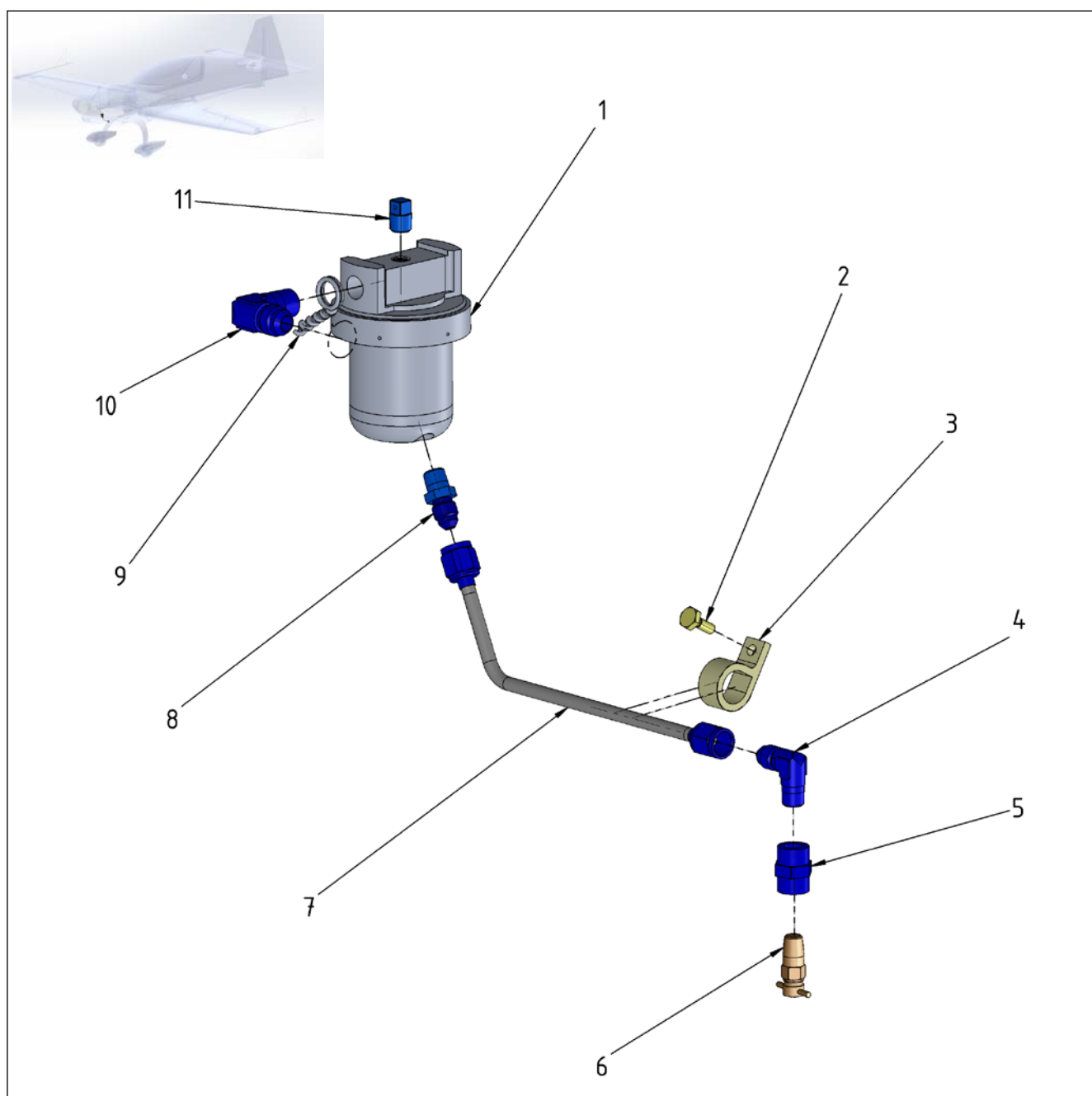


Figure 28-12 Distribution - Gascolator

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
Boost Pump			
1	01207	Boost Pump	1
		<i>Attaching Parts</i>	
5	01526	Hose Clamp NORMA 50-70 mm ***	2
4	61209.11	Attachment Plate Fuel Pump <i>Attaching Parts</i>	2
2	00202	Bolt AN3-3A	4
3	149	Washer AN960-10L ***	4

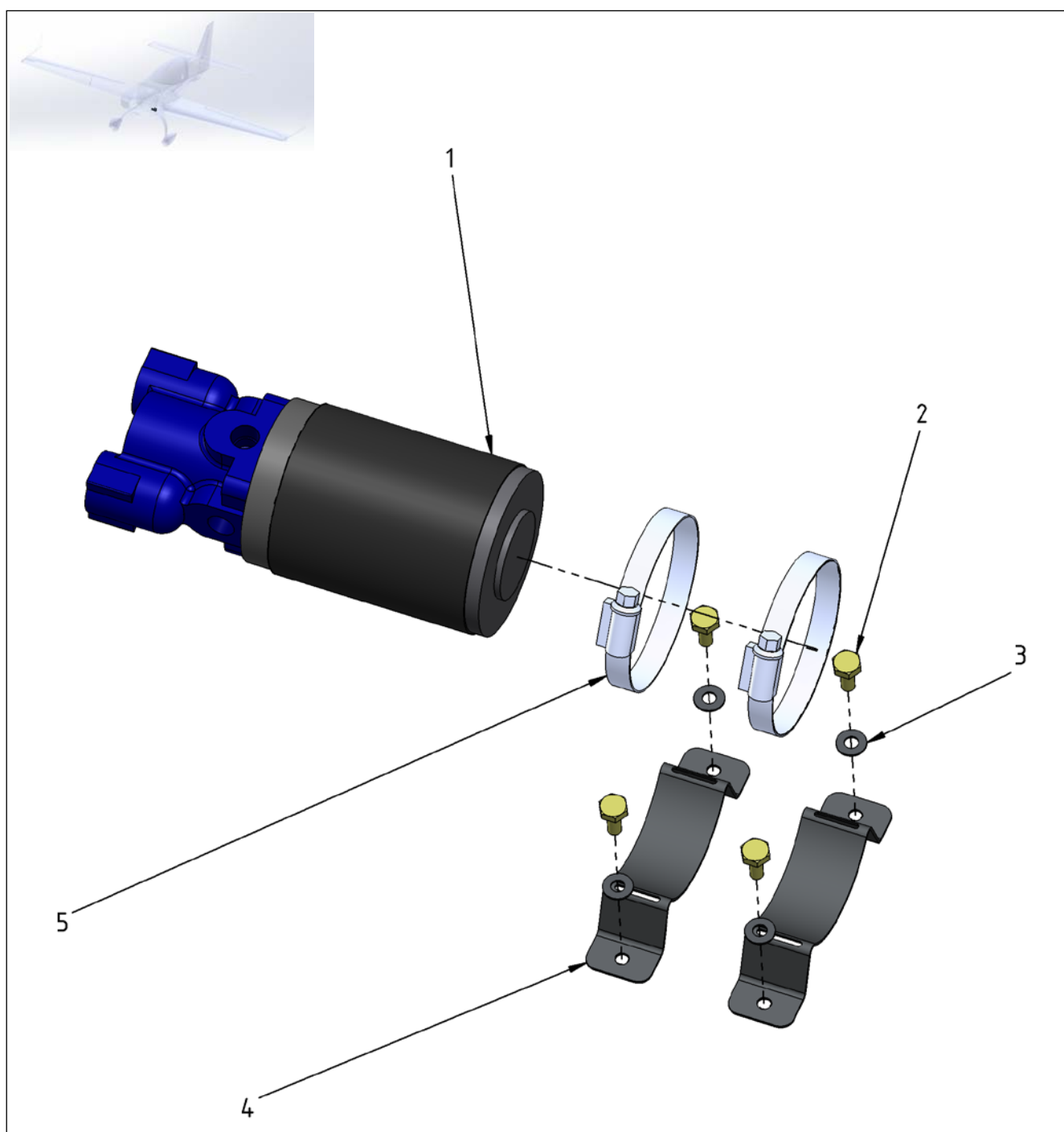


Figure 28-13 Distribution – Boost Pump

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Fuel & Drain Lines

Fuselage

1	61212.10-VM	Fuel Line Center Tank -> Acro Tank	1	
2	61212.30-VM	Fuel Line LH Wing Tank -> Selector Valve	1	
3	61212.20-VM	Fuel Line Acro Tank -> Selector Valve	1	
4	41060	. Grommet MS35489-11	1	
5	35337	Adapter D-06 90° F/F	1	
6	00168	T-Fitting AN824-06D	1	
7	61212.40-VM	Fuel Line RH Wing Tank -> Selector Valve	1	
8	61212.50-VM	Fuel Line Selector Valve -> Gascolator	1	

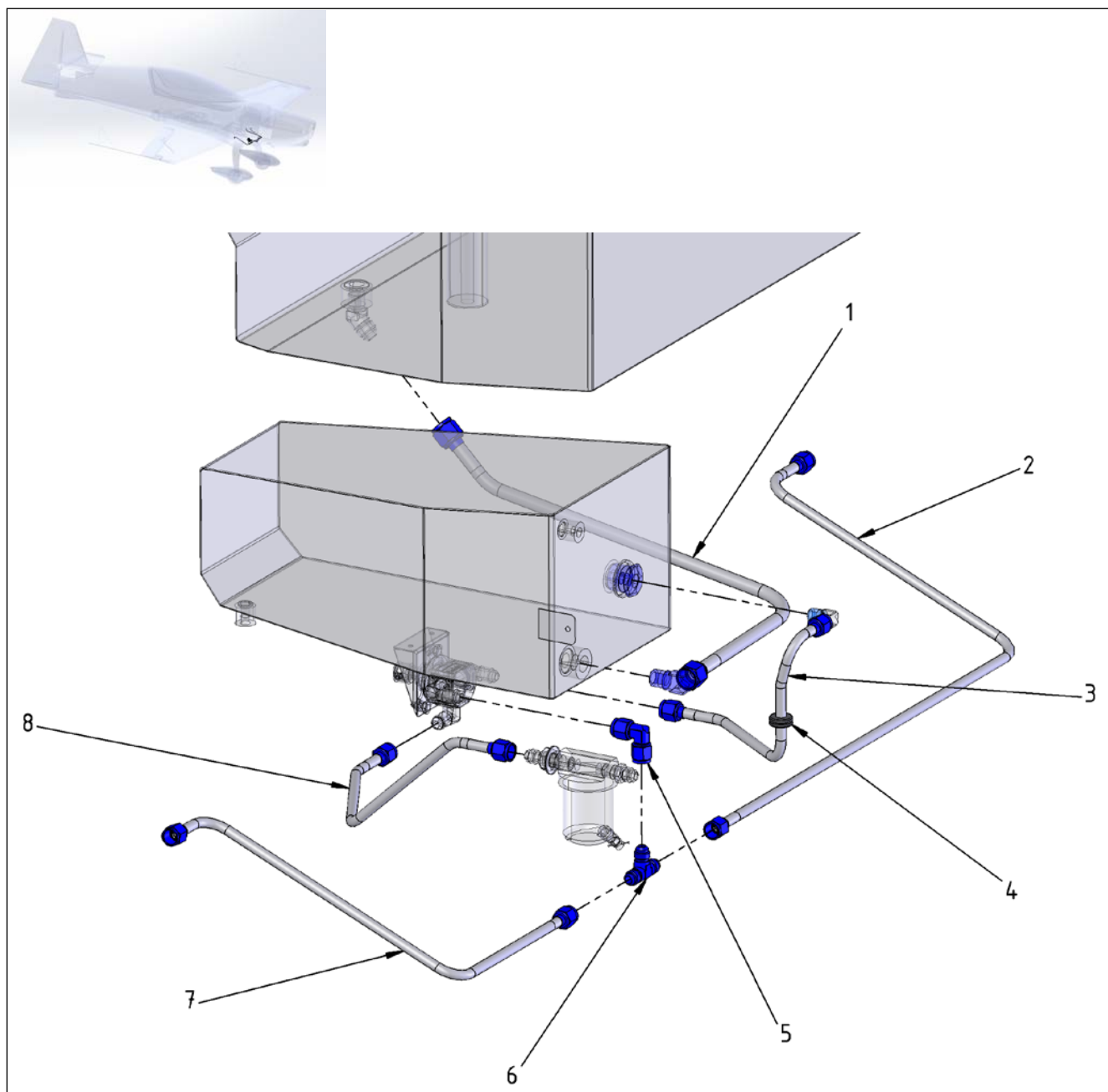


Figure 28-14 Fuel & Drain Lines - Fuselage

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Engine Compartment (Fuel & Drain Lines)

1	61211.40	Fuel Hose FF Sensor – Fuel Injector	1	
2	61211.30	Fuel Hose Engine Driven Pump – FF Sensor	1	
5	00159	Fitting AN816-4D	1	
8	61209.30-VM	Engine Fuel Pump Drain Tube Assembly	1	
14	61002.02	Boost Fuel Pump Drain Tube Hose	1	
<i>Attaching Parts</i>				
10	34536	MS3367-3-0	1	

9	61211.20	Boost Fuel Pump Drain Tube Assembly	1	
3	01270	O-Ring MS29512-06	1	
4	00177	Fitting Nut AN924-6D	1	
6	00397	Fitting AN912-5D Bushing Reducer	1	
7	00164	Fitting MS20822-6D 90° Aluminum	1	
12	02858	Fitting AN837-6D 45°	1	
11	61211.10	Fuel Hose Gascolator – Boost Pump	1	
3	01270	O-Ring MS29512-06	1	
4	00177	Fitting Nut AN924-6D	1	
7	00164	Fitting MS20822 90° Aluminum	1	
13	00170	Fitting AN832-6D Union	1	
16	61209.20-VM	Boost Fuel Pump Drain Tube Assembly	1	
<i>Attaching Parts</i>				
10	02930	Cable Tie 4,8 x 360mm	3	

5	00159	Fitting AN816-4D	1	
15	61002.01	Engine Fuel Pump Drain Tube Hose	1	

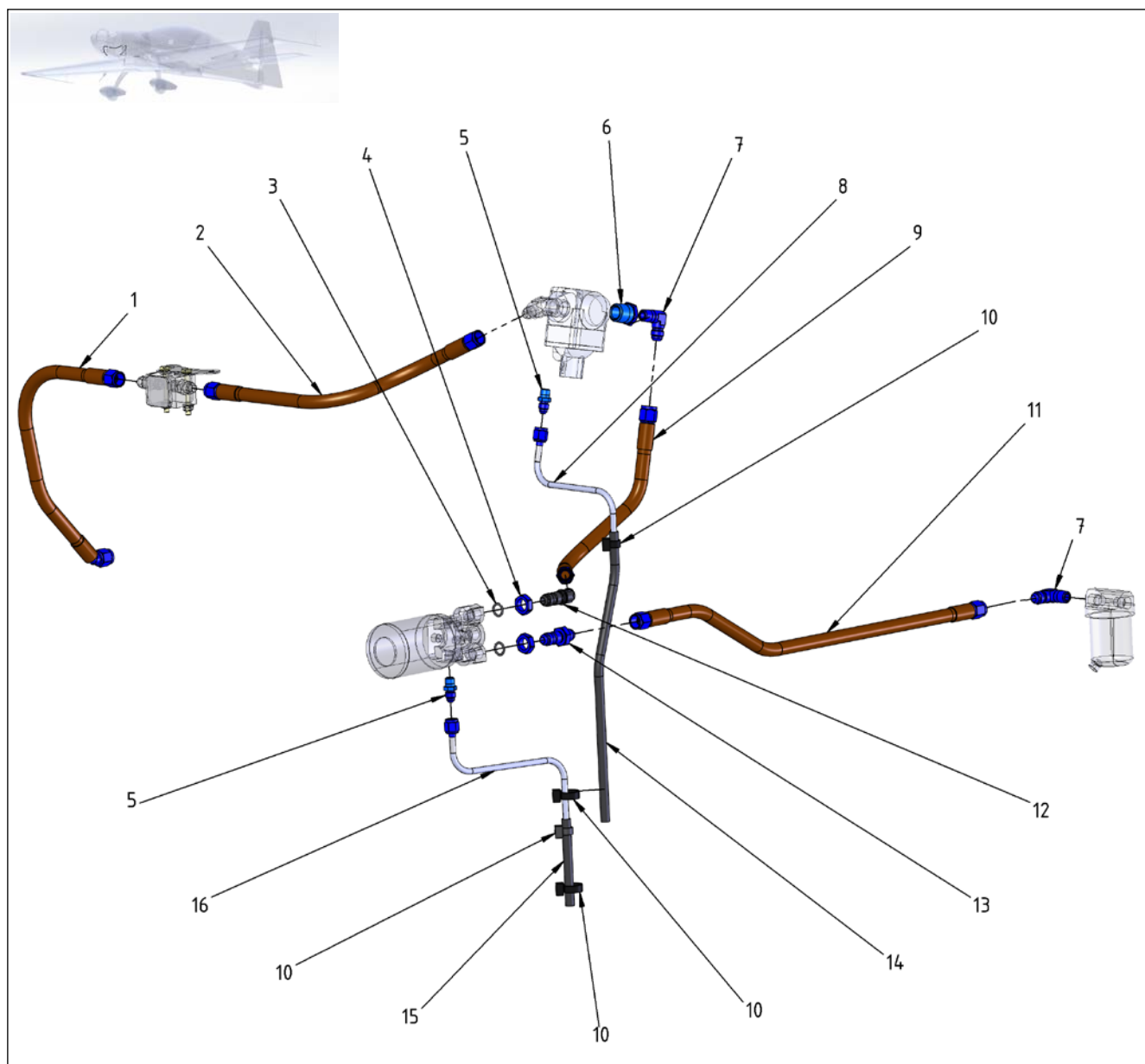


Figure 28-15 Fuel & Drain Lines – Engine Compartment

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Drain Lines (Fuel & Drain Lines)

1	61213.10-VM	Drain Line Acro Tank	1	
3	00159	Fitting AN816-4D	1	
7	00987	Fitting AN910-1W Coupling	1	
8	01211	Drain Valve 1/8" NPT	1	
2	61213.30-VM	Drain Line RH Wing Tank	1	
10	61213.20-VM	Drain Line LH Wing Tank	1	
11	NA4017	T-Fitting AN825-4D	1	
7	00987	Fitting AN910-1W Coupling	1	
8	01211	Drain Valve 1/8" NPT	1	
6	02190	Clamp MS21919WDG10	2	
<i>Attaching Parts</i>				
4	88	Nut MS20364-1032	1	
5	149	Washer AN960-10L	2	
9	00589	Bolt AN3-4A	1	

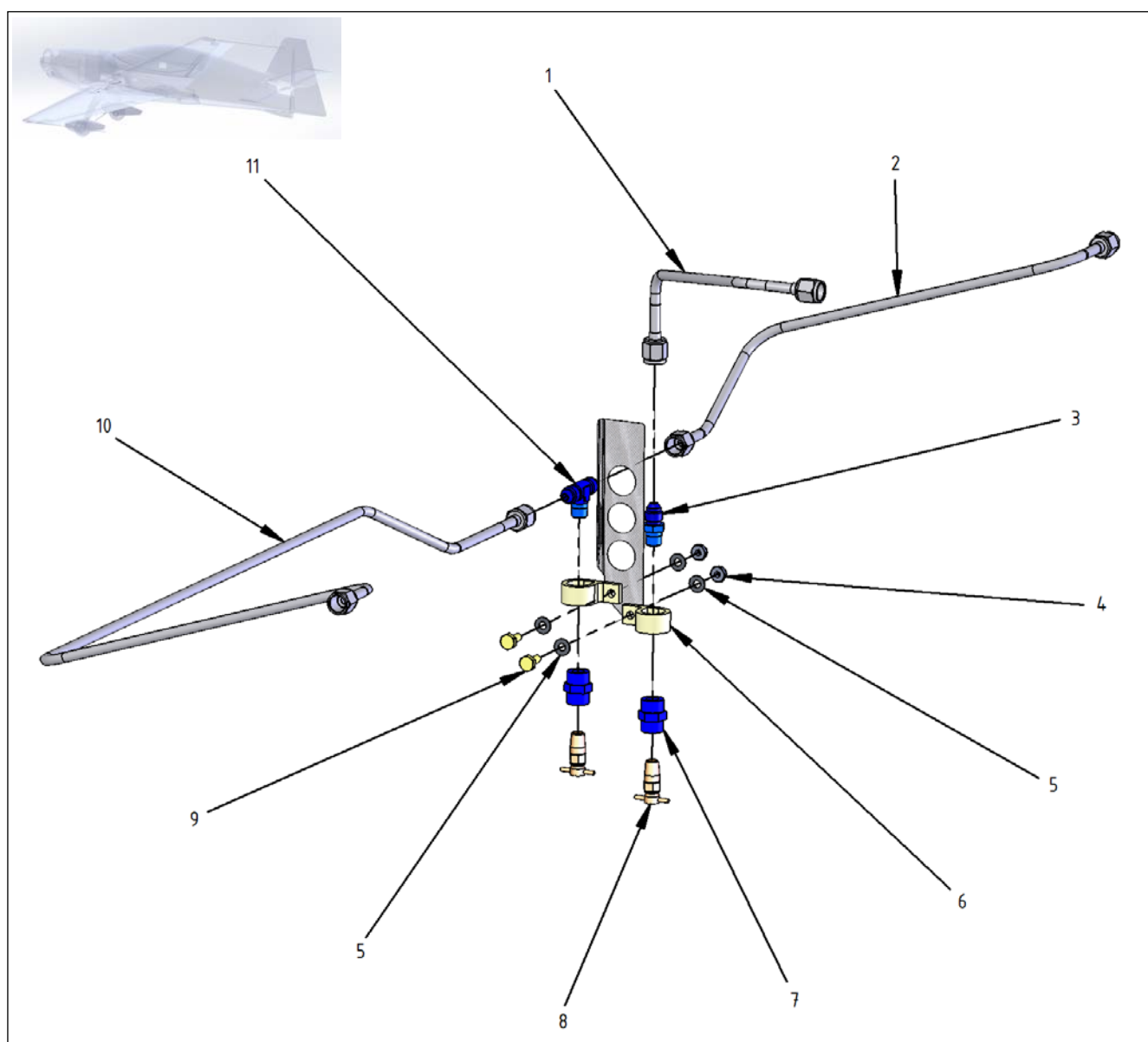


Figure 28-16 Fuel & Drain Lines – Drain Lines

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31

Indicating/ Recording Systems

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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31-10 Instrument and Control Panels

Front Instrument Panel

1	71104.00-VF	Panel House Copilot	1	
		<i>Attaching Parts</i>		
8	35224	Bolt 10-32 x 5/8" FT (black)	6	
9	35410	POM Washer (Black)	6	

5	71104.40-VF	Copilot Panel Upper Hatch Cover	1	
6	71104.20-VF	Copilot Panel Hatch Cover	1	
7	71104.30-VF	Panel House Copilot	1	
2	34749	Garmin G5 Electronic Flight Instrument	1	
10	71501.12	G5 Mount	1	
3	71501.11-VF	Instrument Panel Front	1	
		<i>Attaching Parts</i>		
4	In 34750	Machine Screws	3	

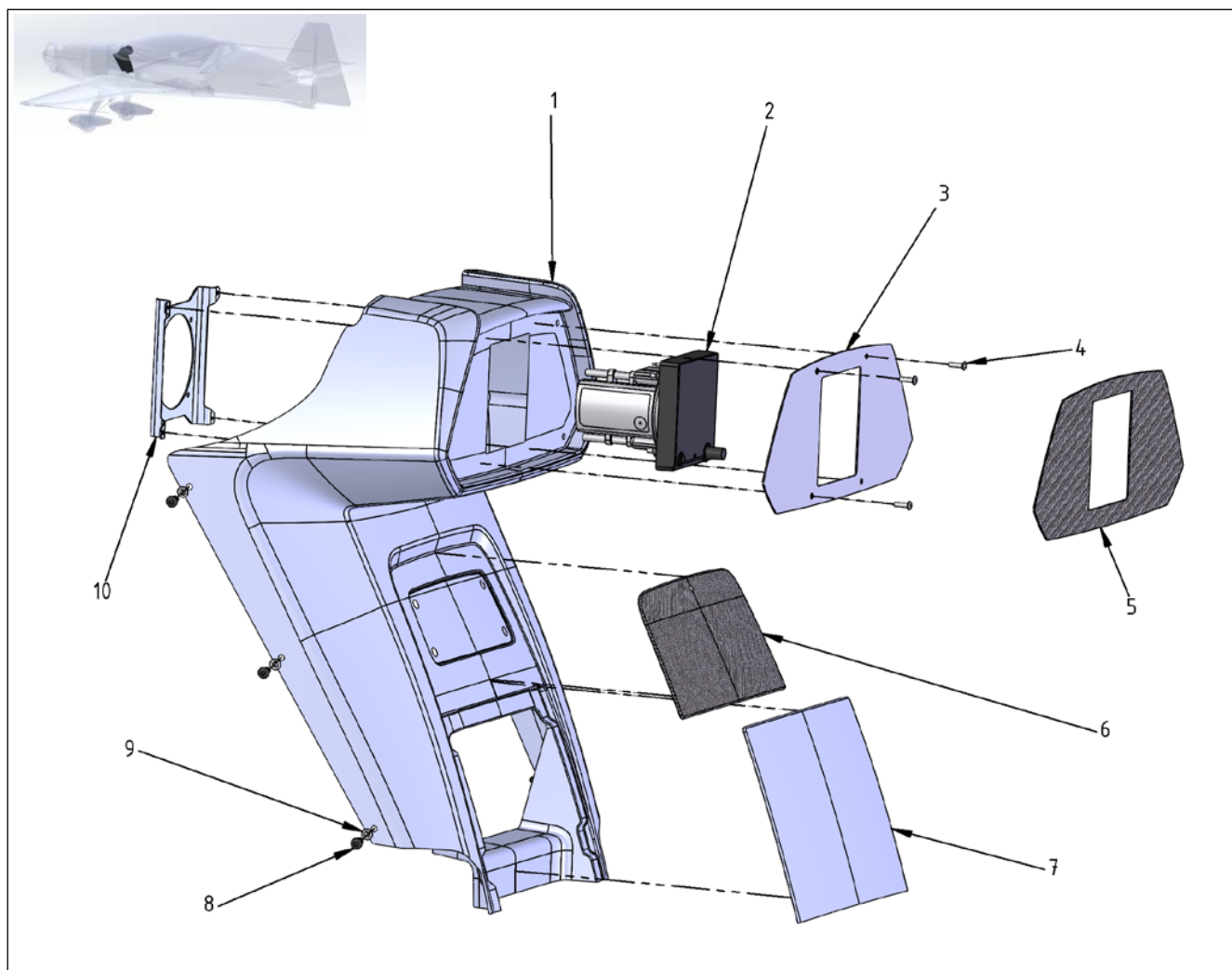


Figure 31-1 Instrument and Control Panels – Front Instrument Panel

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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**Front Instrument Panel with GDU 450
(Optional)**

1	81520.10-VF	Panel House Copilot GDU 450 (optional) <i>Attaching Parts</i>	1	
7	35224	Bolt 10-32 x 5/8" FT (black)	6	
8	35410	POM Washer (Black) ***	6	
5	71104.20-VF	Copilot Panel Hatch Cover	1	
6	71104.30-VF	Panel House Copilot	1	
3	35413	Garmin GX3 Touch – GDU450 7" Landscape Display	1	
2	81520.30	Retaining Frame GDU 450 <i>Attaching Parts</i>	1	
4	In 35413	. Machine Screw ***	4	

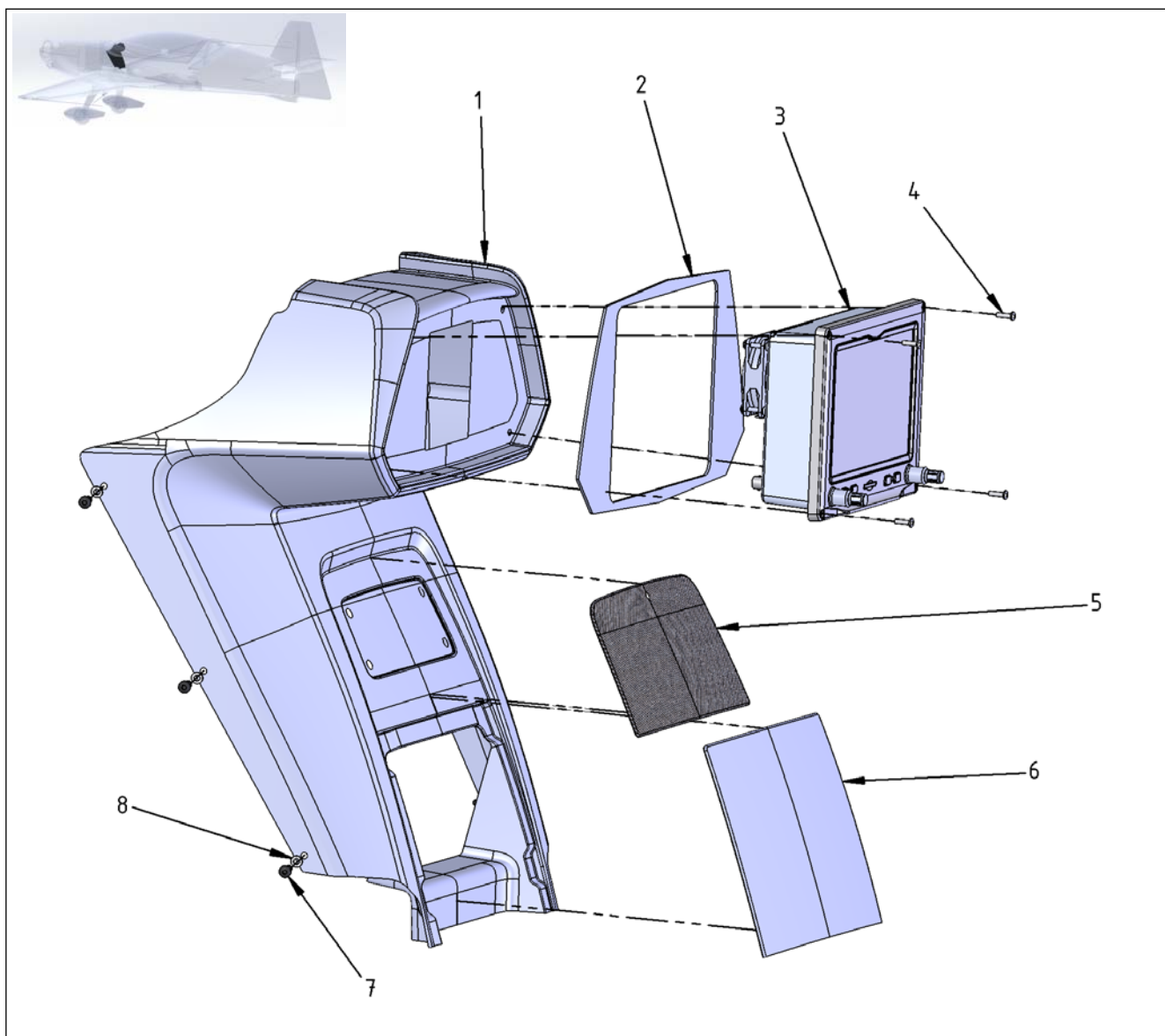


Figure 31-2 Instrument and Control Panels – Front Instrument Panel with GDU 450

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
Rear Instrument Panel			
1	35339	Airspeed Indicator (Bolts included) [knots]	1
-	35340	Airspeed Indicator [kilometer per hour]	a
		<i>Attaching Parts</i>	
9	In 35340	. Bolt AB515B6-12	4

2	33085	Compass, unlit	1
		<i>Attaching Parts</i>	
4	31561	Sheet Spring Nut MS33737-13C	4
7	31567	Bolt MS35241-28	4

3	21253.20-LV	Cover Panel House Pilot (prepared for painting)	1
5	30416	Altimeter dual scale [feet] & [meter]	1
-	33652	Altimeter metric [meter]	a
-	34159	Altimeter imperial [feet]	a
		<i>Attaching Parts</i>	
4	31561	Sheet Spring Nut MS33737-13C	3
6	31513	Bolt MS3521-31	3

13	71502.50-VF	Cover Eyeball Vent LH	1
8	71502.60-VF	Cover Eyeball Vent RH	1
10	7152.20-VF	Pilot Instrument Cover	1
12	35279-PG	EFIS Package Garmin GX3 Touch GDU 460, 10.6" Display (screws included)	1
		<i>Attaching Parts</i>	
11		. Machine Screw	4

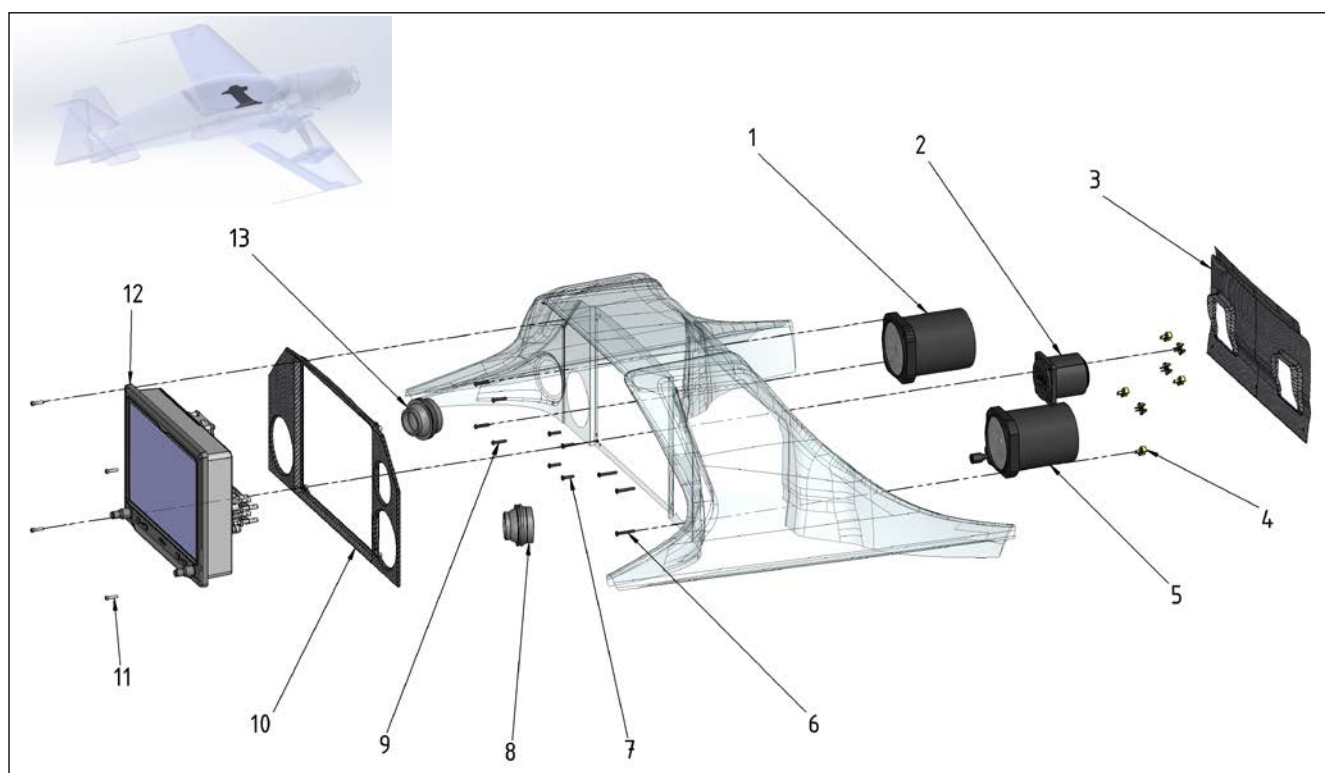


Figure 31-3 Instrument and Control Panels – Rear Instrument Panel

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Aresti-Cardholder

1	81504.12	Aresti-Cardholder	2	
		<i>Attaching Parts</i>		
2	35410	POM Washer (Black)	2	
3	35224	Bolt 10-32 x 5/8" FT (black)	2	
6	88	Nut MS21083N3	2	

5	81504.11	Bracket Aresti-Cardholder	1	
		<i>Attaching Parts</i>		
2	35410	POM Washer (black)	2	
4	35223	Bolt 10-32 x 1/2" FT (black)	2	

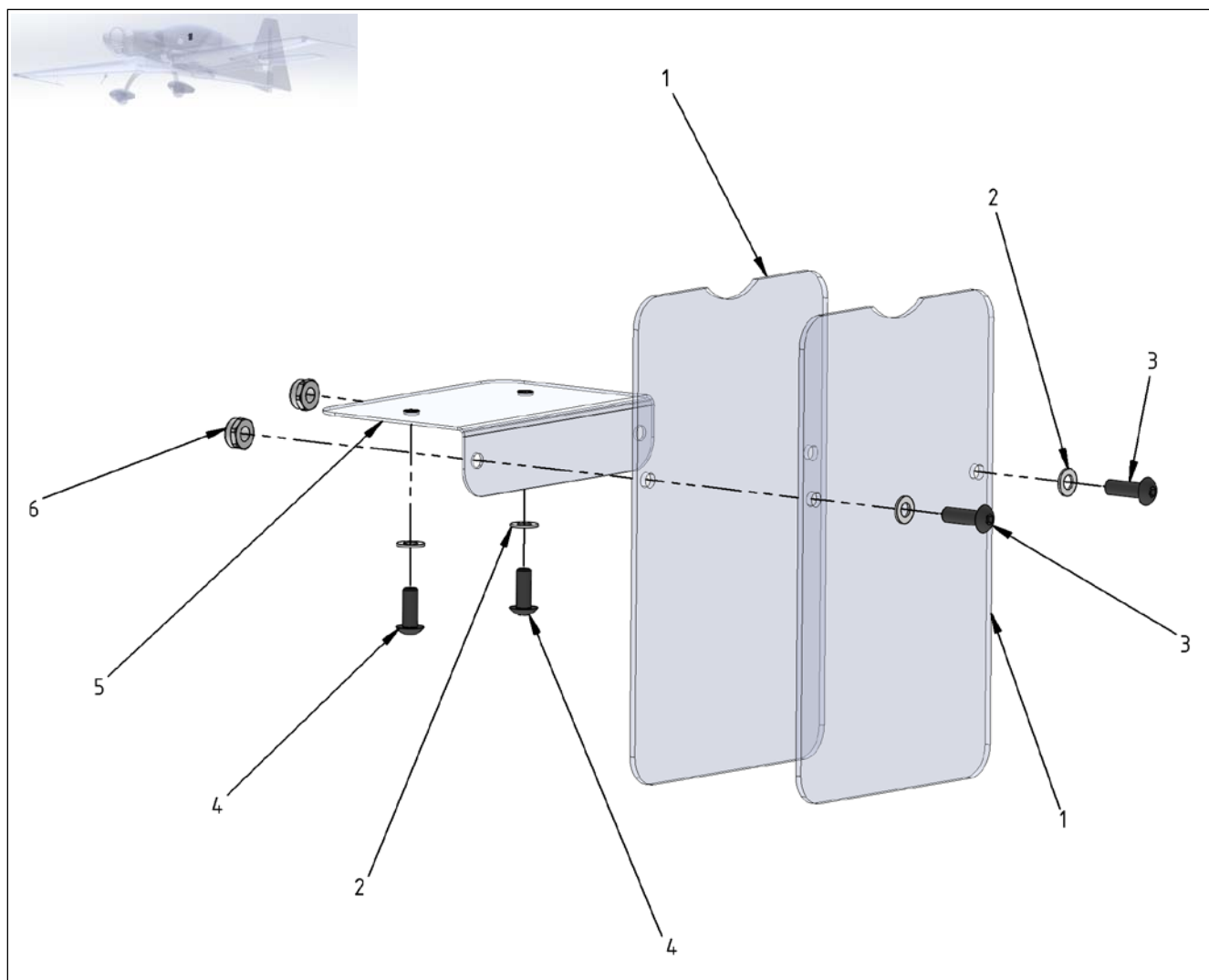


Figure 31-4 Aresti-Cardholder

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
Center Console Cover			
1	71507.11	Radio/Transponder Attachment Plate <i>Attaching Parts</i>	1
6	118	Bolt AN526C1032R8 ***	4
3	71506.10-VF	Switch & Circuit Breaker Cover Assembly <i>Attaching Parts</i>	1
8	FK4021	Dual Lock Fastening Tape ***	2
4	71506.30-VF	. Upper Circuit Breaker Door Assembly	1
5	71506.40.VF	. Lower Circuit Breaker Door Assembly	1
7	35260	TC20 Controller (Transponder TT2x) <i>Attaching Parts</i>	1
2	In 35260	. Screw ***	4
9	35261	TC90 Controller (Radio TY91) <i>Attaching Parts</i>	1
2	In 35261	. Screw ***	4

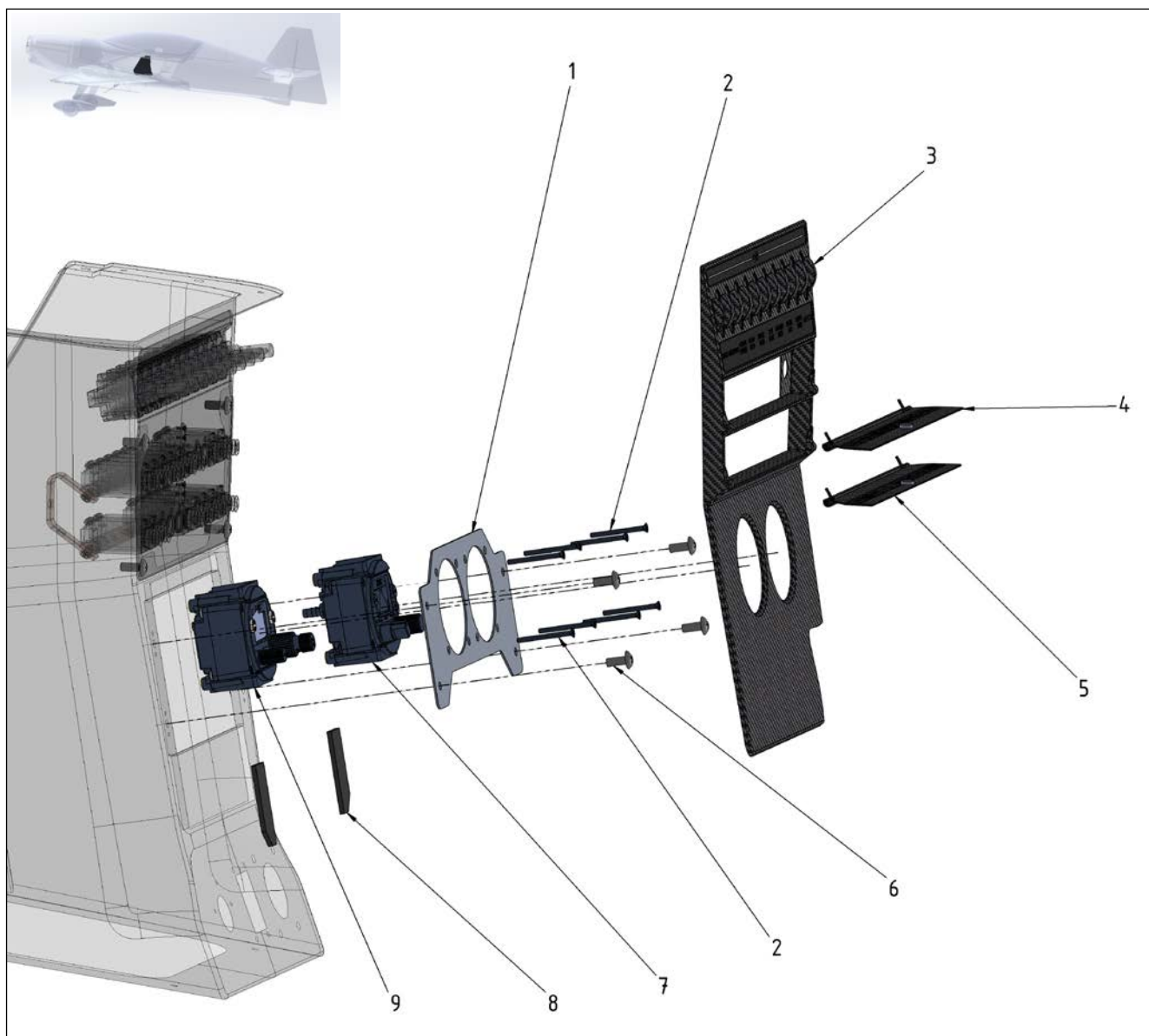


Figure 31-5 Instrument and Control Panels – Center Console Cover

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Center Console Options

GNX 375 + GTR 225A + GAD 29

2	35332	GNX 375 ADS-B Transponder and GPS <i>Attaching Parts</i>	1	
3	700015	Flat Countersunk Screw MS24693-S26	6	
4	30163	Washer AN960-C6	2	
5	NA4159	Nut MS21083N06 ***	2	
6	81510.10-VF	Switch & CB Cover Assembly GNX375	1	
7	71506.30-VF	. Upper CB Door Assembly	1	
8	71506.40-VF	. Lower CB Door Assembly	1	
18	FK4021	. Dual Lock Fastening Tape	2	
9	34796	GTR 225A VHF COM <i>Attaching Parts</i>	1	
3	700015	Flat Countersunk Screw MS24693-S26	6	
4	30163	Washer AN906-C6	2	
5	NA4159	Nut MS21083N06	2	
11	00807	Washer AN960-C4	4	
12	34019	Nut MS21042L04	4	
17	NA4244	Flat Countersunk Screw MS24693-C4 ***	4	
13	34860	GAD 29 ARINC 429 Adapter <i>Attaching Parts</i>	1	
10	81505.40-VM	Bracket GAD 29 RH Assembly	1	
14	00202	Bolt AN3-3A	4	
15	149	Washer AN960-10L	4	
16	81505.30-VM	Bracket GAD 29 LH Assembly ***	1	
20	81505.20-VM	Bracket Assembly GNX375 RH <i>Attaching Parts</i>	1	
1	118	Bolt AN526C1032R8	4	
19	00298	Paper Washer 11x4,7x0,6 ***	2	
21	81505.10-VM	Bracket Assembly GNX375 LH <i>Attaching Parts</i>	1	
1	118	Bolt AN526C1032R8	4	
19	00298	Paper Washer 11x4,7x0,6 ***	2	

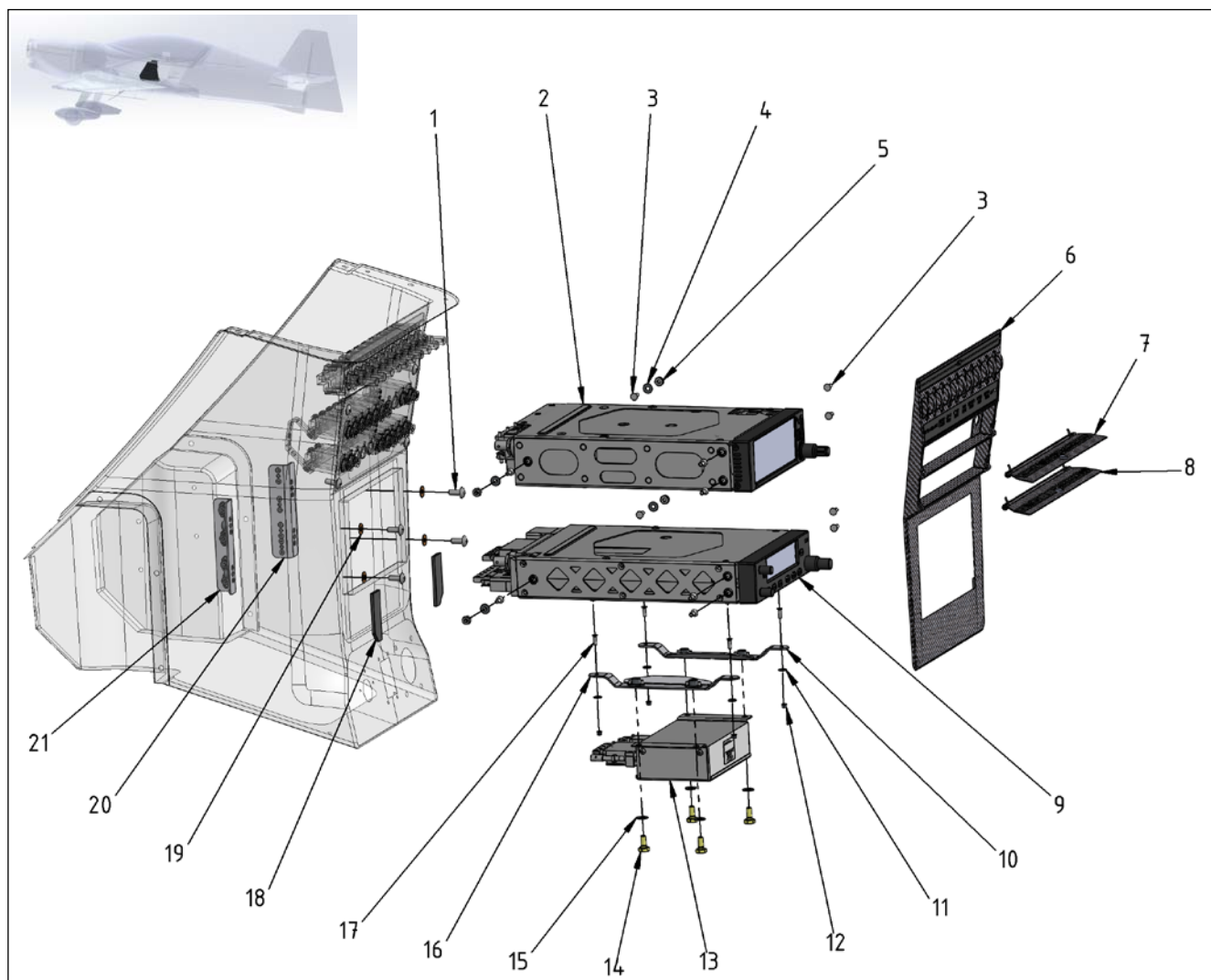


Figure 31-6 Center Console Options – GNX 375 + GTR 225A + GAD 29

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
		GNX 375 + GTR 205 + GAD 29		<089
2	35332	GNX 375 ADS-B Transponder and GPS	1	
		<i>Attaching Parts</i>		
4	30163	Washer AN960-C6	2	
5	700015	Flat Countersunk Screw MS24693-S26	6	
6	NA4159	Nut MS21083N06	2	

8	81510.00	Switch & CB Cover Assembly Garmin	1	
9	71506.30-VF	. Upper CB Door Assembly	1	
10	71506.40-VF	. Lower CB Door Assembly	1	
21	FK4021	. Dual Lock Fastening Tape	2	
11	36612	GTR 205 VHF COM	1	
		<i>Attaching Parts</i>		
3	32482	Bolt MS35206-228	2	
4	30163	Washer AN960-C6	6	
5	700015	Flat Countersunk Screw MS24693-S26	6	
6	NA4159	Nut MS21083N06	6	
7	81507.60	Bracket GTR 205 RH Assembly	1	
13	NA4244	Flat Countersunk Screw MS24693-C4	4	
18	34019	Nut MS21042L04	4	
19	00807	Washer AN960-C4	4	
20	81507.30	Bracket GAD 29 LH Assembly	1	

14	34860	GAD 29 ARINC 429 Adapter	1	
		<i>Attaching Parts</i>		
12	81507.40	Bracket GAD 29 RH Assembly	1	
15	00202	Bolt AN3-3A	4	
16	149	Washer AN960-10L	4	
17	81507.30	Bracket GAD 29 LH Assembly	1	

23	81507.10	Bracket LH Assembly (375+205)	1	
24	81507.20	Bracket RH Assembly (375+205)	1	
		<i>Attaching Parts</i>		
1	118	Bolt AN526C1032R8	4	
22	00298	Paper Washer 11 x 4,7 x 0,6	4	

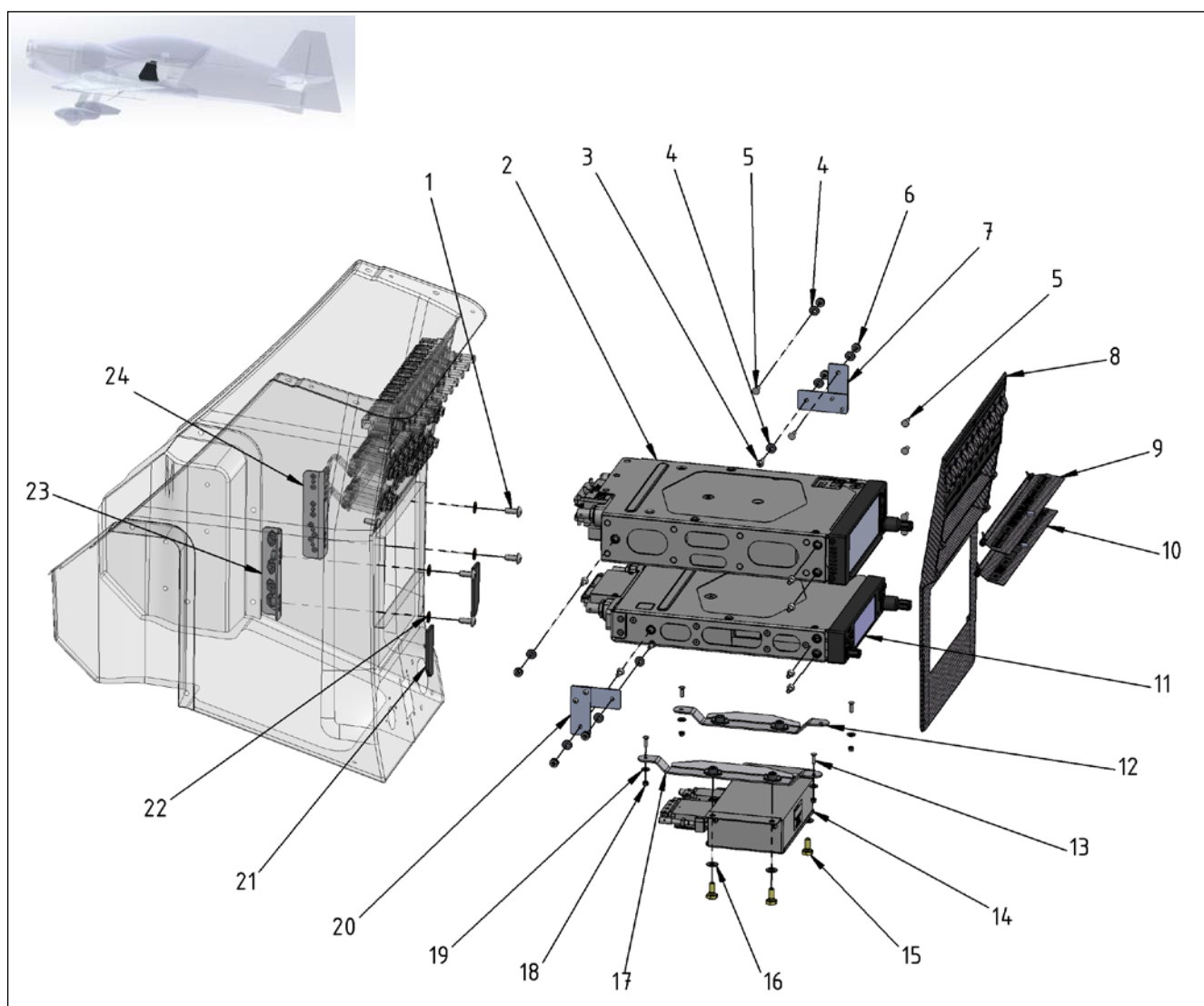


Figure 31-7, Sheet 1 Center Console Options – GNX 375 + GTR 205 + GAD 29 (<089)

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
GNX 375 + GTR 205 + GAD 29			≥089
1	35332	GNX 375 ADS-B Transponder and GPS <i>Attaching Parts</i>	1
2	NA4244	Flat Countersunk Screw MS24693-C4	4
7	34019	Nut MS21042L04	4
8	00807	Washer AN960-C4	4
15	700015	Flat Countersunk Screw MS24693-S26	6
18	NA4159	Nut MS21083N06	2
19	30163	Washer AN960-C6	2

5	34860	GAD 29 ARINC 429 Adapter <i>Attaching Parts</i>	1
3	00202	Bolt AN3-3A	4
4	149	Washer AN960-10L	4
6	81508.30	Bracket GAD 29 RH Assembly	1
10	81508.40	Bracket GAD 29 LH Assembly	1

11	81510.00	Switch & CB Cover Assembly Garmin	1
12	71506.30-VF	. Upper CB Door Assembly	1
13	71506.40-VF	. Lower CB Door Assembly	1
20	FK4021	. Dual Lock Fastening Tape	2
14	36612	GTR 205 VHF COM <i>Attaching Parts</i>	1
9	81507.60	Bracket GTR 205 RH Assembly	1
15	700015	Flat Countersunk Screw MS24693-S26	6
16	32482	Bolt MS35206-228	2
17	81507.50	Bracket GTR 205 LH Assembly	1
18	NA4159	Nut MS21083N06	4
19	30163	Washer AN960-C6	6

23	81507.10	Bracket LH Assembly (375+205)	1
24	81507.20	Bracket RH Assembly (375+205) <i>Attaching Parts</i>	1
21	118	Bolt AN526C1032R8	4
22	00298	Paper Washer 11 x 4,7 x 0,6	4

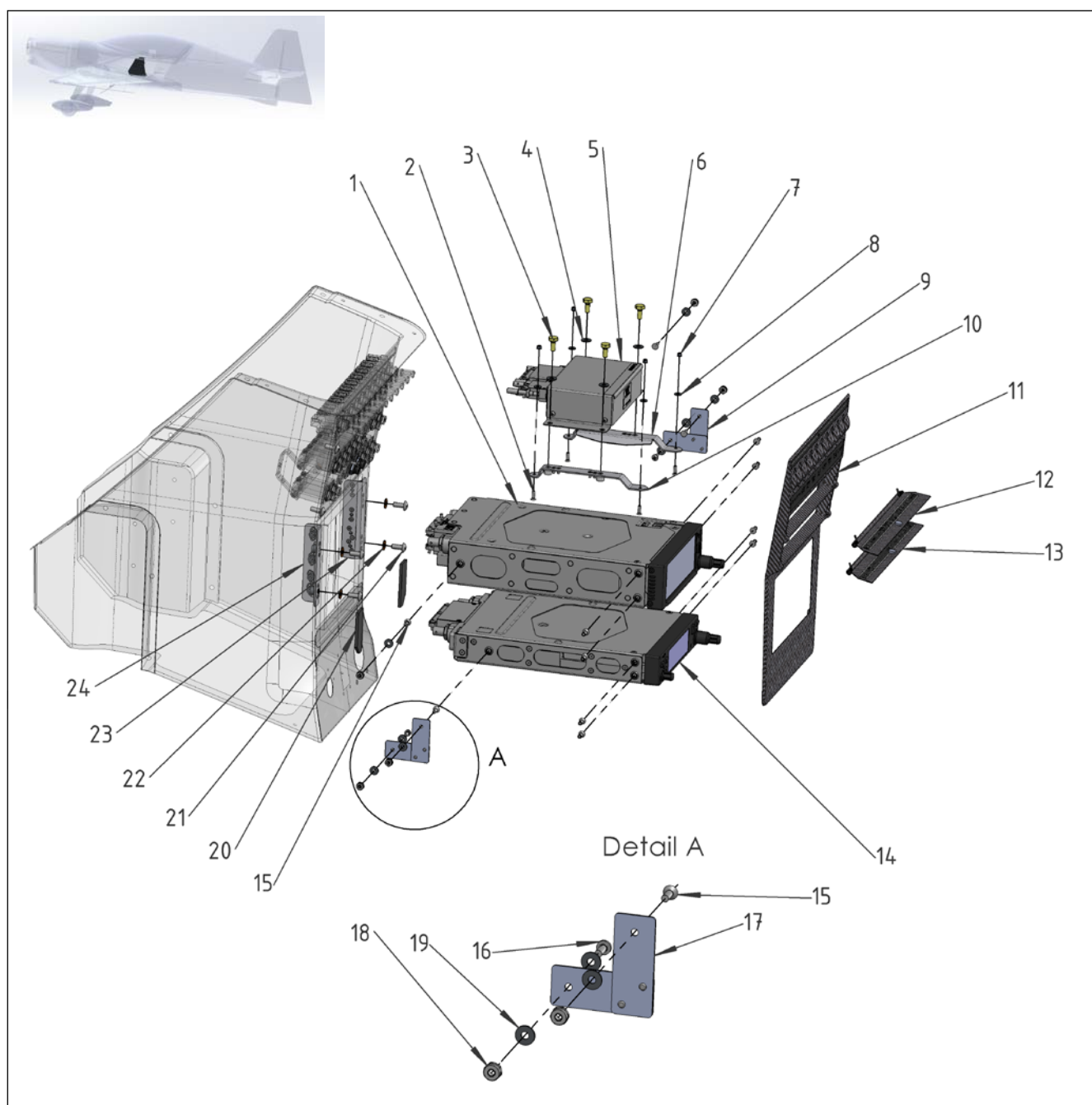


Figure 31-7, Sheet 2 Center Console Options – GNX 375 + GTR 205 + GAD 29 (≥089)

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
GNX 375 + 2x GTR 205 + GAD 29			≥089
1	35332	GNX 375 ADS-B Transponder and GPS <i>Attaching Parts</i>	1
2	NA4244	Flat Countersunk Screw MS24693-C4	4
7	34019	Nut MS21042L04	4
8	00807	Washer AN960-C4	4
16	700015	Flat Countersunk Screw MS24693-S26	6
17	30163	Washer AN960-C6	2
18	NA4159	Nut MS21083N06 ***	2
5	34860	GAD 29 ARINC 429 Adapter <i>Attaching Parts</i>	1
3	00202	Bolt AN3-3A	4
4	149	Washer AN960-10L	4
6	81508.20	Bracket GAD 29 RH Assembly	1
10	81508.10	Bracket GAD 29 LH Assembly ***	1
11	81510.00	Switch & CB Cover Assembly Garmin	1
12	71506.30-VF	. Upper CB Door Assembly	1
13	71506.40-VF	. Lower CB Door Assembly	1
20	FK4021	. Dual Lock Fastening Tape	2
14	36612	GTR 205 VHF COM <i>Attaching Parts</i>	2
16	700015	Flat Countersunk Screw MS24693-S26	6
17	30163	Washer AN960-C6	2
18	NA4159	Nut MS21083N06 ***	2
19	81508.50	Bracket GTR 205 LH Assembly	1
9	81508.60	Bracket GTR 205 RH Assembly <i>Attaching Parts</i>	1
15	32482	Bolt MS35206-228	1
17	30163	Washer AN960-C6	2
18	NA4159	Nut MS21083N06 ***	1
24	81508.10	Bracket LH Assembly (375+2x205)	1
23	81508.20	Bracket RH Assembly (375+2x205) <i>Attaching Parts</i>	1
21	118	Bolt AN526C1032R8	6
22	00298	Paper Washer 11 x 4,7 x 0,6 ***	6

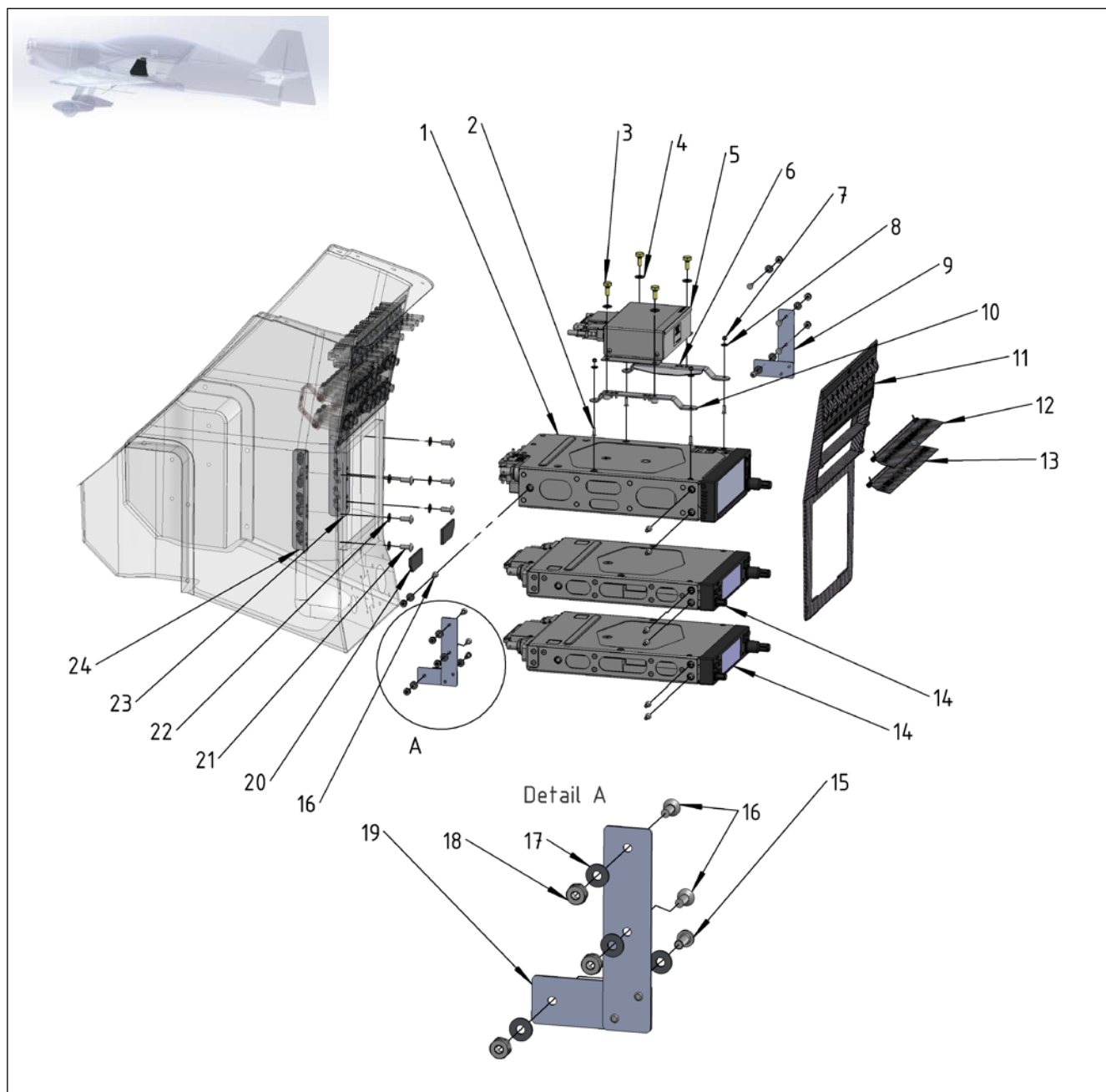


Figure 31-8 Center Console Options – GNX 375 + 2x GTR 205A + GAD 29 (≥089)

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Garmin GDU 450 Antenna

1	32620	Garmin GA 35 GPS/WAAS Antenna	1	
		<i>Attaching Parts</i>		
2	In 32620	Mounting Screw MS24693C-54	4	
7	83	Washer AN960-8	4	
8	NA4101	Nut AN364C-1032	4	

6	71510.10	GPS Antenna Mounting	1	
		<i>Attaching Parts</i>		
3	149	Washer AN960-10L	4	
4	In 34789	Lock Washer	4	
5	00202	Bolt AN3-3A	4	

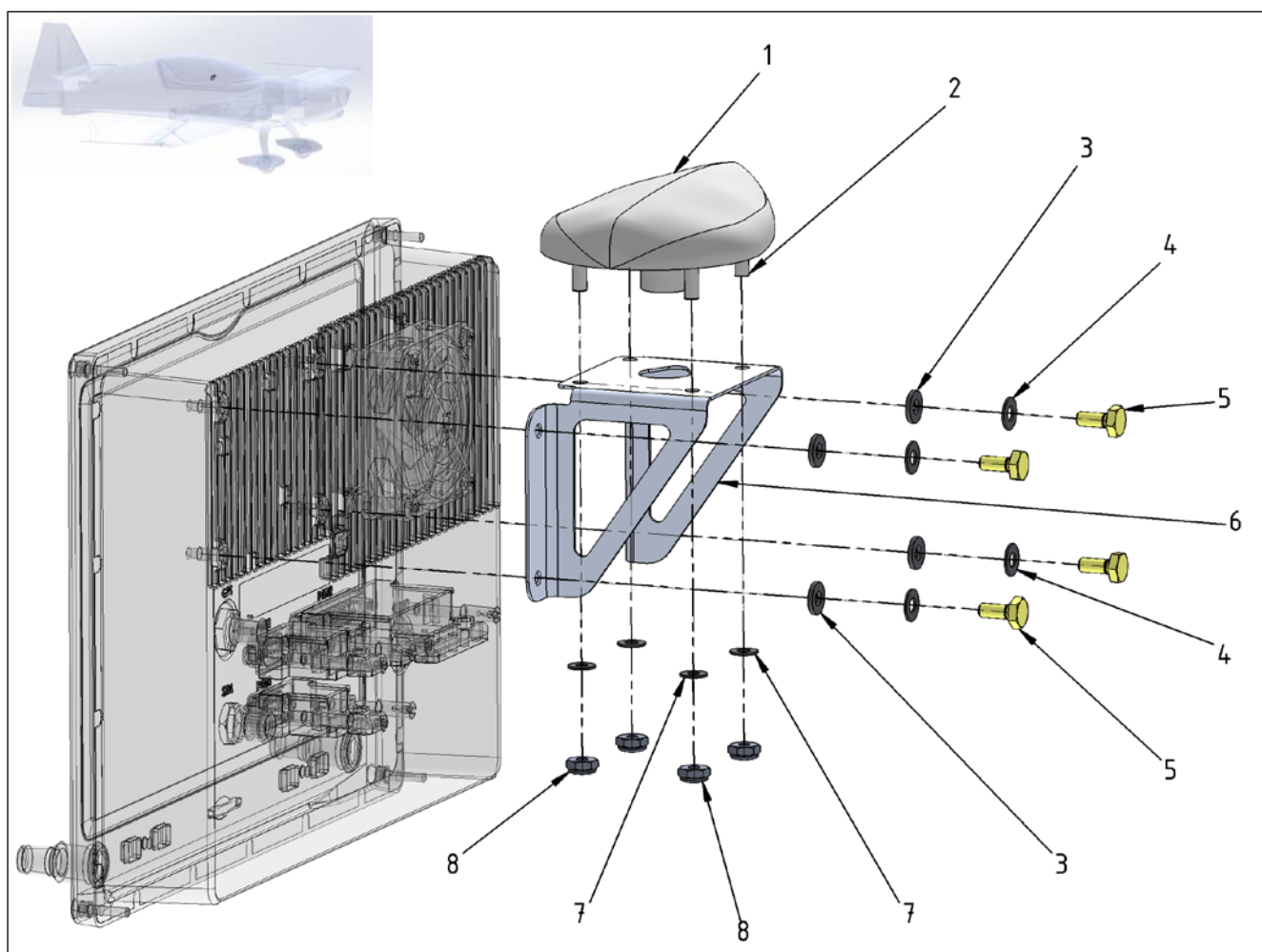


Figure 31-9 Garmin GDU 450 Antenna

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32

Landing Gear

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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32-10

Main Gear

Main Landing Gear

1	51300.00	Main Landing Gear	1	
16	53101.010	Bushing Main Landing Gear	1	
6	51301.01	Bridge Upper Landing Gear	2	
<i>Attaching Parts</i>				
3	35134	Bolt AN6H-24A	1	
4	31248	Washer AN960-616	3	
5	51301.05	Bushing Landing Gear Brackets	2	
14	NA4220	Bolt AN6-15A	1	
15	NA3000	Nut AN365-624A	1	

9	53101.004-LK	Bridge Bottom Landing Gear (painted)	2	
7	53101.006-01	top anti-abrasion strip	2	
8	53101.006-02	bottom anti-abrasion strip	2	
<i>Attaching Parts</i>				
2	35109	Bolt AN5-11A	2	
10	35134	Nut AN365-524	2	
11	700014	Washer AN960-516	2	

13	51101.51	Spacer Plate	2	
12	51101.43	Support Plate 2mm	1	
-	51101.44	Support Plate 1mm (optional to above)	1	

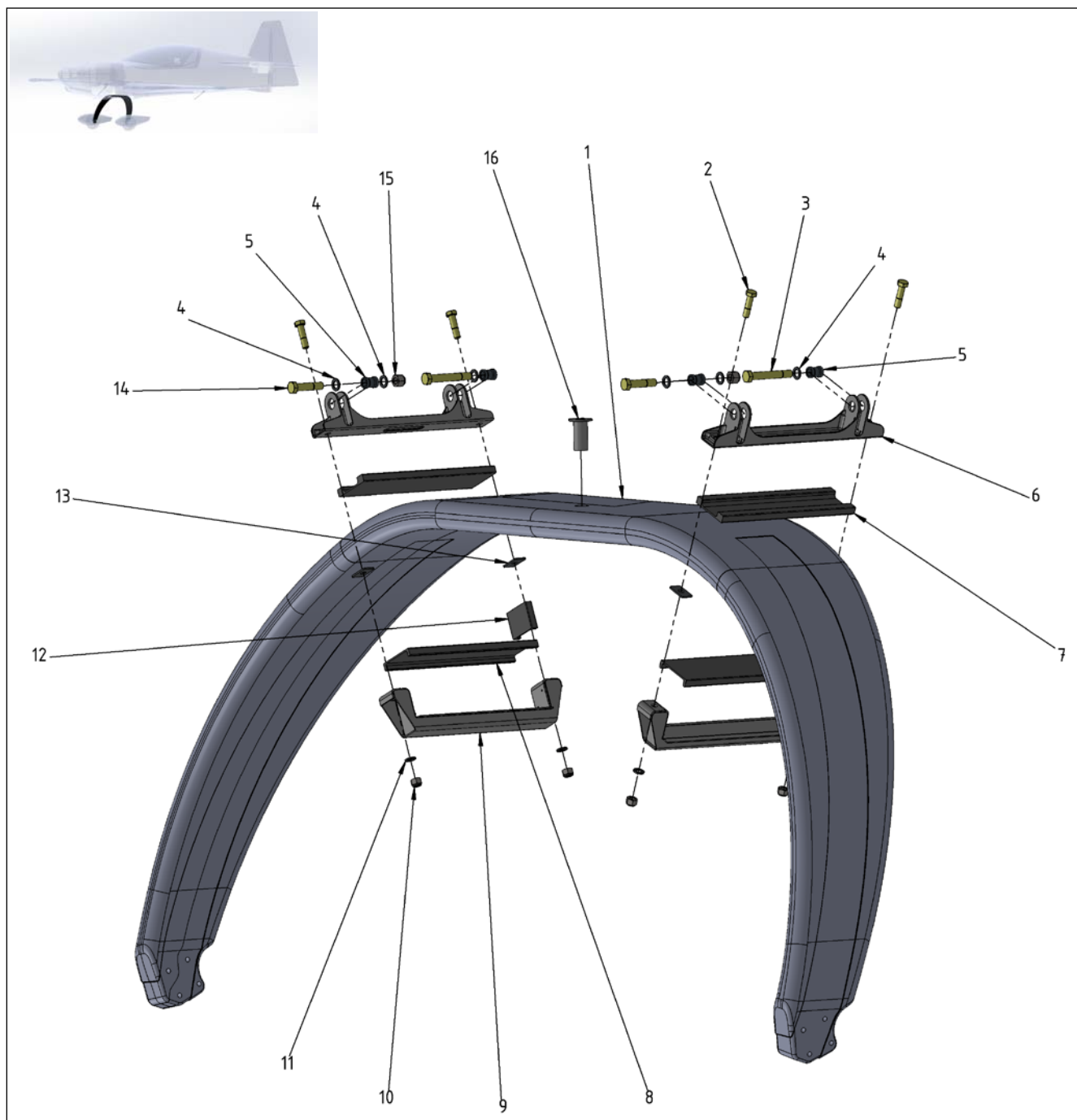


Figure 32-1 Main Gear - Main Landing Gear

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Landing Gear Brackets

1	21113.02	Bushing *	4	
2	35549	Bolt MS24694-C83	4	
3	21113.60	Bracket Landing Gear	2	
		<i>Attaching Parts</i>		
4	31248	Washer AN960-616	2	
5	35204	Bolt MS20006-38	2	

8	21113.80	Bracket Centering Pin LG	1	
		<i>Attaching Parts</i>		
6	NA4150	Locknut AN364-428A	2	
7	25090	Washer AN960-416	4	
9	35100	Bolt AN4-25A	2	

*if installed, ref. to Service Bulletin SB-NG-1-23

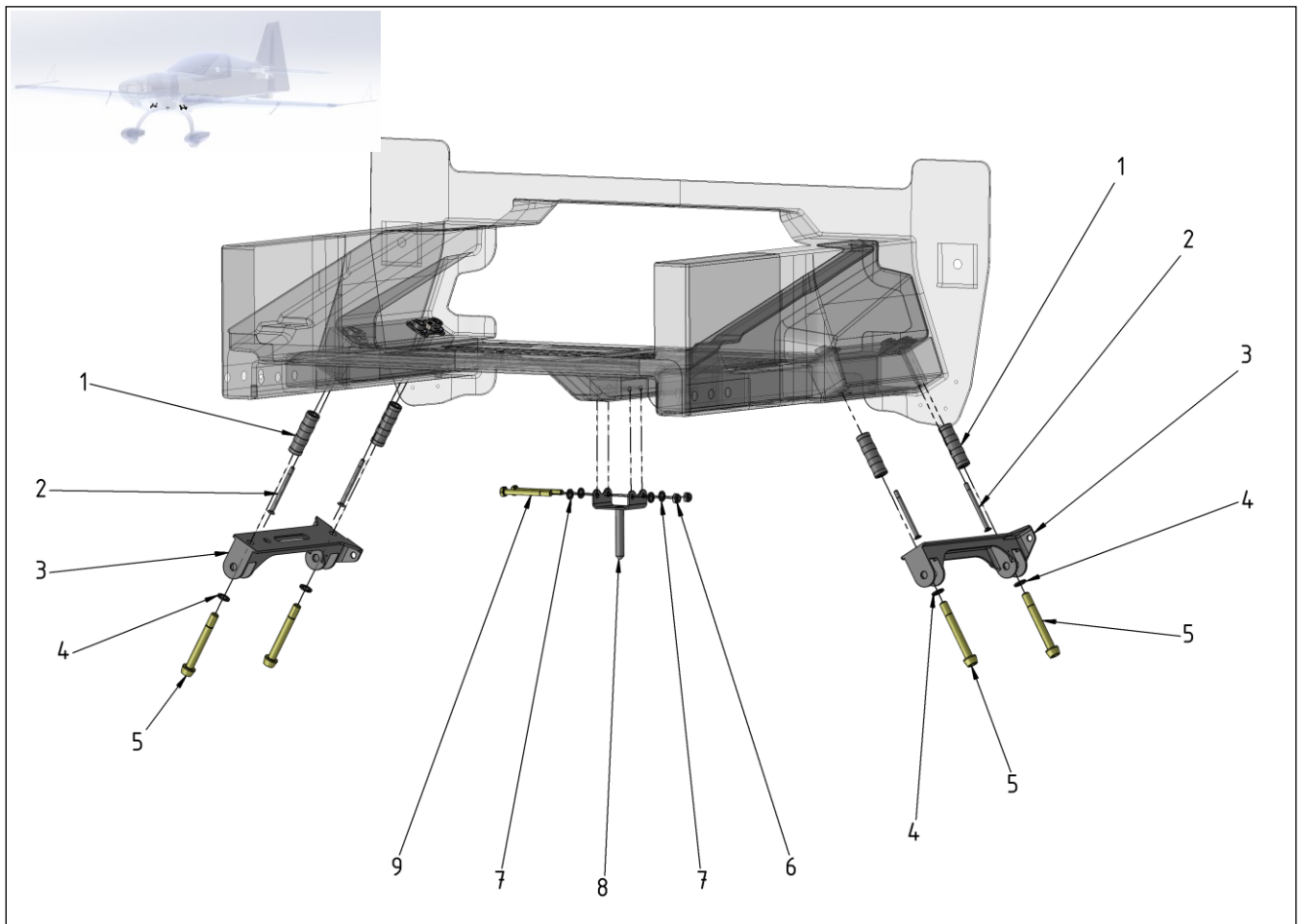


Figure 32-2 Main Gear - Landing Gear Brackets

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Bracket Bridge Fuselage (LH/RH)

1	21422.01	Bushing Spar Bridge	5	
2	21423.00-LK	Spar Bridge	1	
		<i>Attaching Parts</i>		
7	700014	Washer AN960-516	5	
8	35134	Nut AN365-524A	2	
9	35401	Bolt MS20005H15	1	
12	35400	Bolt AN5-52A	2	

6	21421.01	Bracket Bridge Fuselage	1	
		<i>Attaching Parts</i>		
3	01703	Bolt AN3-7A	8	
4	04001	Nut AN365-1032	8	
5	31583	Washer AN96010	8	
10	35398	Washer DIN9021-5,3-A2	8	

11	21422.02	Bushing Spar Bridge	1	

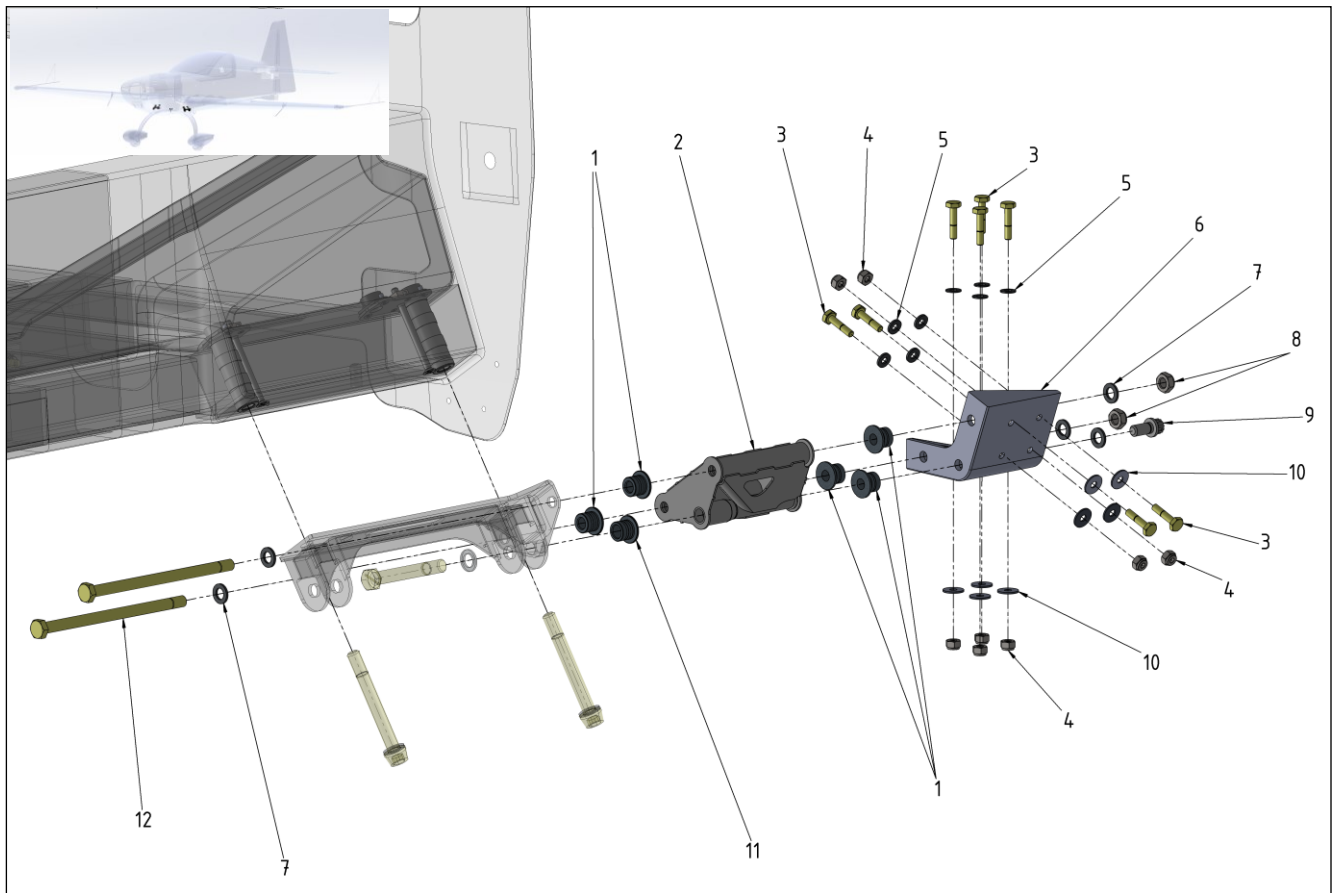


Figure 32-3 Bracket Bridge Fuselage (LH/RH)

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Wheel Axis

1	34629	Main Wheel Axle	2	
7	51101.10 / 20 - VM	Wheel Pant Attachment Plate LH/RH (pre-assembled)	1	
8	53101.005-02-LK	Reinforcement Plate (black painted)	1	

Attaching Parts

2	01040	Bolt AN4-32A	3	
3	34630	Axle Nut ECR-002(B)	1	
4	01145	Cotter Pin MS24665-396	1	
5	00765	Bolt AN4-30A	1	
6	34631	Caliper Screw V-FHC-003	2	
9	00803	Nut MS21042-4	4	

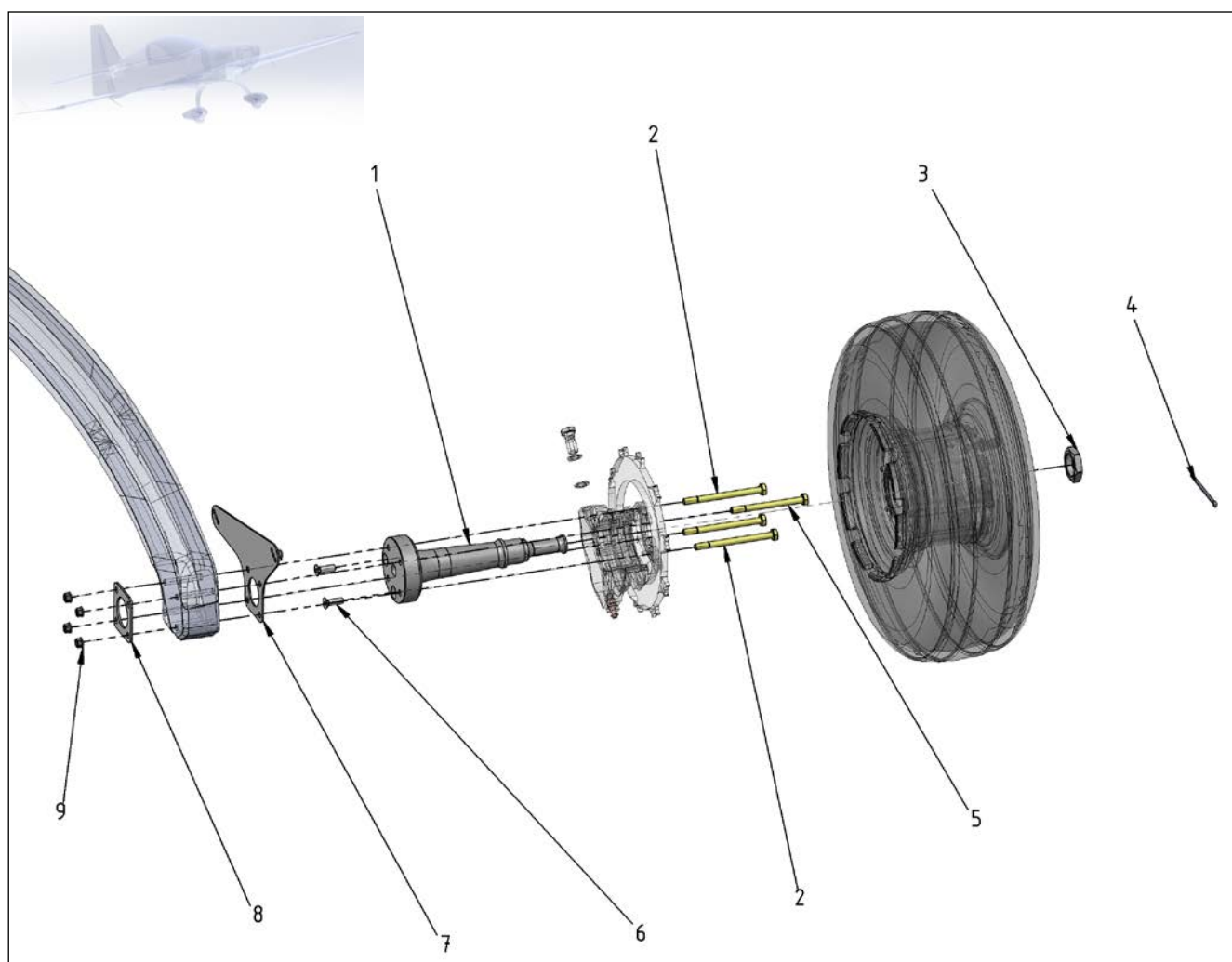


Figure 32-4 Main Gear – Wheel Axis

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Tail Spring

1	51201.00-LV	Tail Spring	1	
		<i>Attaching Parts</i>		
11	35236	Bolt AN4H-14A	2	
12	00781	Safety Wire MS20995-C32	1	
13	01227	Washer DIN9021 6,4 x 18 x 1,6 mm	2	
14	51202.10-FB	Insert Front Tail Spring	1	
15	21451.02	Tailwheel Bearing FWD	1	

18	51303.00-VM	Tail Spring Support	1	
		<i>Attaching Parts</i>		
7	00802	Nut MS21042-3	2	
8	51303.02	Tail Spring Bracket	1	
9	149	Washer AN960-10L	4	
10	00204	Bolt AN3-5A	2	
16	51303.03	Tailwheel Spring Bearing Shaft	1	
17	ND4147	Spring Pin DIN7346 3x20 mm	1	

2	51204.00-LV	Tailwheel Shoe (primed)	1	
		<i>Attaching Parts</i>		
3	00803	Nut MS21042-4	2	
4	25090	Washer AN960-416	2	
5	35099	Bolt AN4-15A	2	
6	35083	Washer AN960-416L	2	

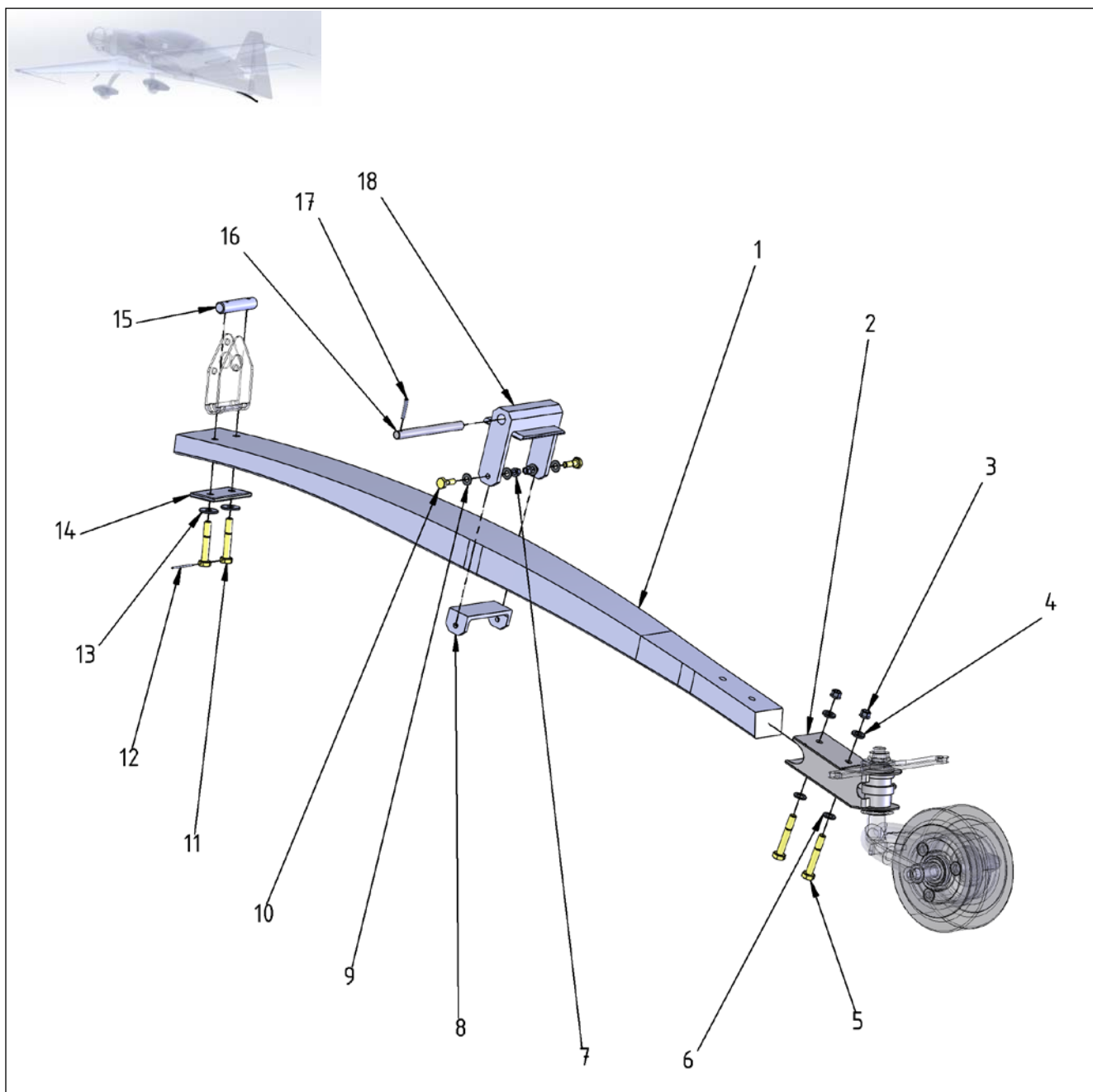


Figure 32-5 Main Gear – Tail Spring

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Tail Wheel Fork with Wheel

6	51205.10-LK	Tail Wheel Fork	1	
		<i>Attaching Parts</i>		
1	35132	Nut MS21083N8	1	
2	35865	Washer MS27183-17	1	

3	51200.03-FB	Actuation Lever	1	
4	51205.14-VM	Retaining Pin Tailwheel	1	
7	32751	Compression Spring	1	
8	32750	Parallel Key DIN6885	1	
11	02393	Grease Nipple DIN3402 K1/A-6	1	
10	51203.00	Tail Wheel	1	
		<i>Attaching Parts</i>		
5	01307	Bolt DIN912 M10x120	1	
9	00079	Nut LN9348-10	1	

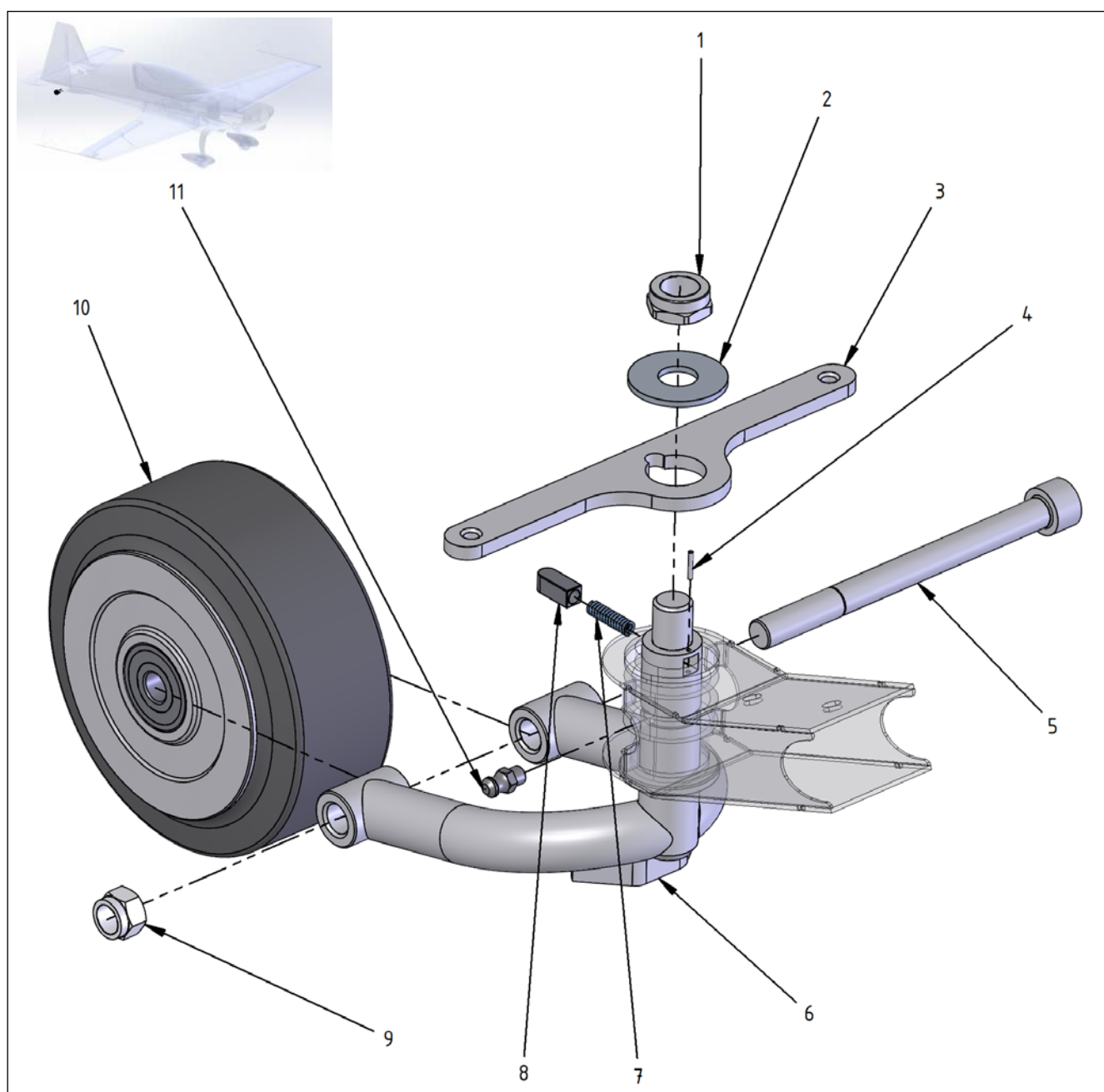


Figure 32-6 Main Gear – Tail Wheel Fork with Wheel

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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32-40 Wheels and Brakes

-	35320	Wheel and Brake Kit for Dual Seater	1	
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For Pedals Refer to Figure 27-24 to 27-35

Wheel Pants

Refer to Figure 51-1

32-50 Steering

-	41306.10-VM	Tailwheel Steering	1	
-	NA3001	. Chain	2	
-	02366	. Connector Spring Kit	1	
-	30415	. Connector	4	

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33

Lights

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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33-40

Exterior

Navigation/Strobe Light

1	34334	Strobe LED (green, right hand side)	1	
-	11109.20-VM	Strobe Light Wiring	1	
		<i>Attaching Parts</i>		
6	ND4140	Bolt DIN7991 M5x50	1	

2	11106.10	Grounding Plate Strobe Light	1	
-	11109.10-VM	Grounding Cable Strobe Light	1	
		<i>Attaching Parts</i>		
3	00416	Washer DIN 125 5,3 mm	1	
4	00076	Nut LN9348-05	1	
7	NL4039	Bolt LN9038-0512	1	

5	34335	Strobe LED (red, left hand side)	1	
-	11109.20-VM	Strobe Light Wiring	1	
		<i>Attaching Parts</i>		
6	ND4140	Bolt DIN912 M5x50	1	

2	11106.10	Grounding Plate Strobe Light	1	
-	11109.10-VM	Grounding Cable Strobe Light	1	
		<i>Attaching Parts</i>		
3	00416	Washer DIN 125 5,3mm	1	
4	00076	Nut LN9348-05	1	
7	NL4039	Bolt LN9038-05012	1	

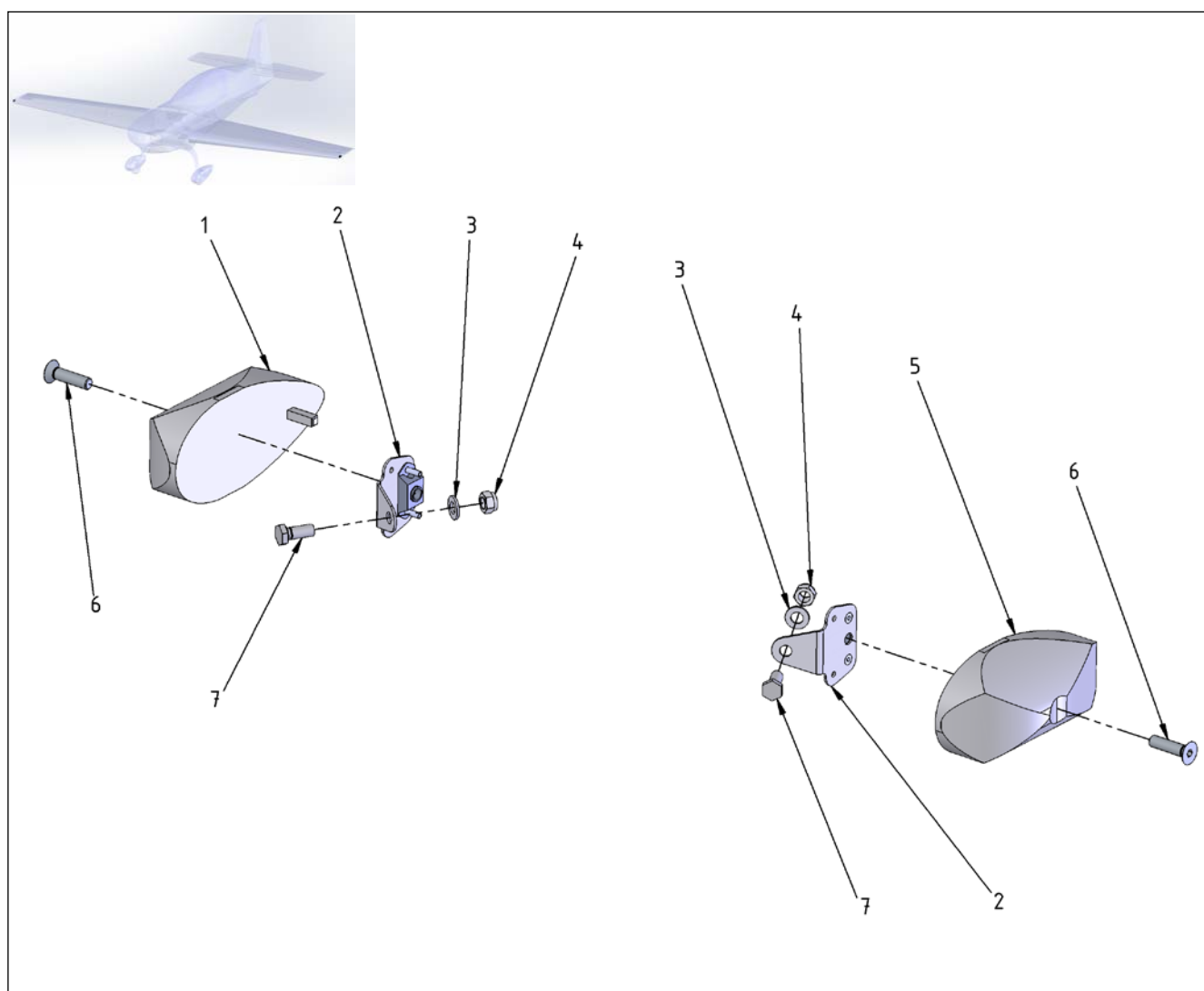


Figure 33-1 Exterior – Navigation/Strobe Light

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Landing Light System (optional)

1	81101.10	Lower Cowling with Hole	1	
14	81101.30-FB	Landing Light Window	1	
10	81101.20-VF	Landing Light Scoop	1	
		<i>Attaching Parts</i>		
3	02930	Cable Tie MS3367-1-x	7	
5	33029	Nut MS21083-N08	7	
6	84	Washer AN960-C8L	7	
12	NA4117	Bolt MS24693-C50	7	
13	NA4090	Countersunk Washer NAS1169-C8L	7	

2	33588	LED Recognition Light 7112512	1	
		<i>Attaching Parts</i>		
8	00807	Washer AN960-04	4	
9	MS35206-212	Bolt MS35206-212	4	

7	81101.01	Attachment Bracket	2	
		<i>Attaching Parts</i>		
4	83	Washer AN960-8	8	
5	33029	Nut MS21083-N08	4	
11	35228	Bolt #8-32- 3/8"	4	

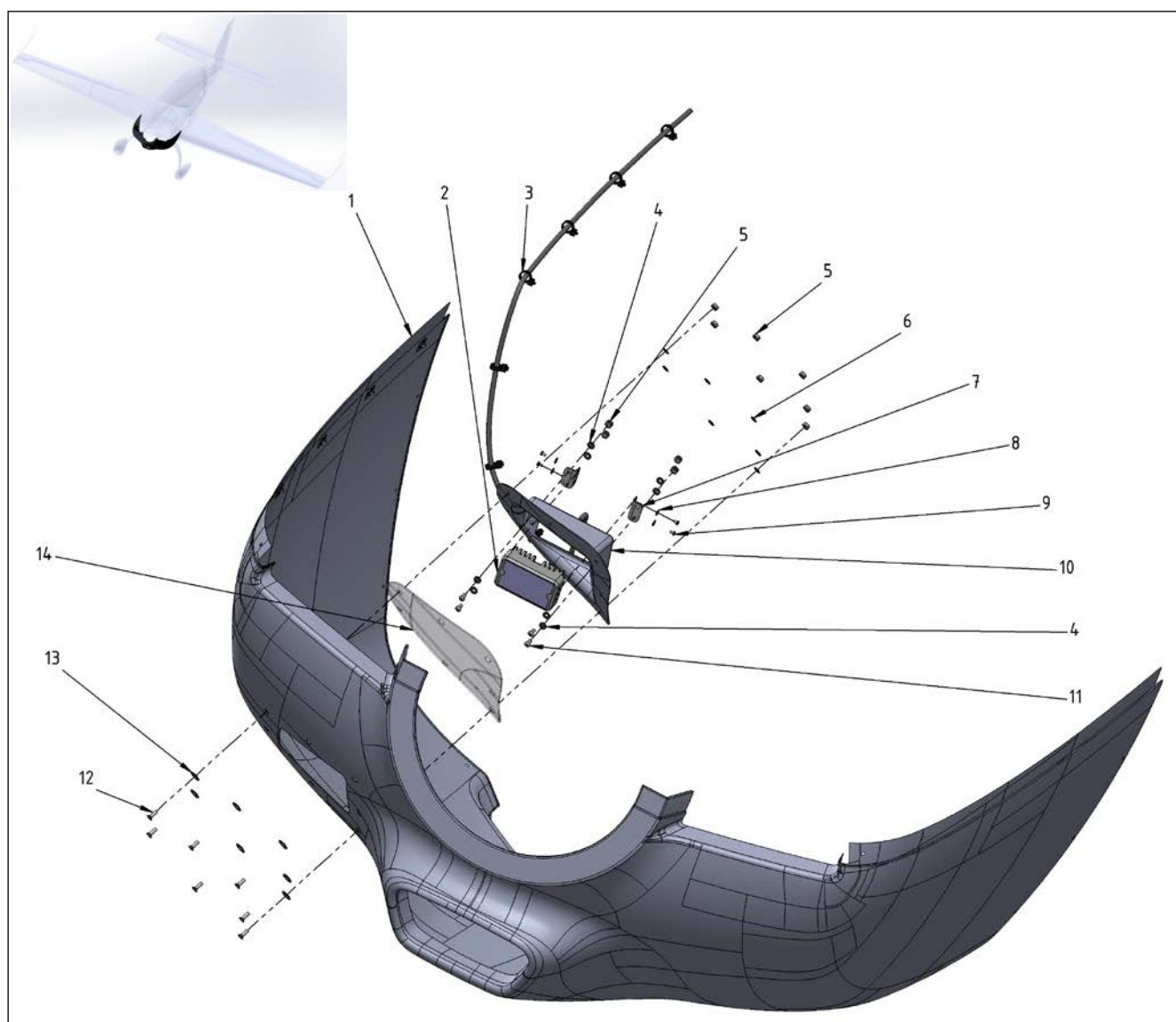


Figure 33-2 Exterior – Landing Light System

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34

Navigation

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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34-10 Environment Data

Pitot/Static System

Pitot Tube

1	73103.001	Pitot Tube Tip (D16/8 x d6,4 x 45)	1
2	7D103.003	Outer Pitot Tube	1
3	7C103.003-01	Inner Pitot Tube	1
8	7C103.002-VB	Pitot Tube Attachment Block	1
<i>Attaching Parts</i>			
4	73103.006-VF	GFK Plate for Pitot Tube Mount	1
6	00076	Nut LN9348-05	2
7	00416	Washer DIN125 5,3 x 10 x 1,0 mm	2
9	ND4041	Bolt DIN933 M5x16	2

5	NA4230	Fitting AN840-4D	2

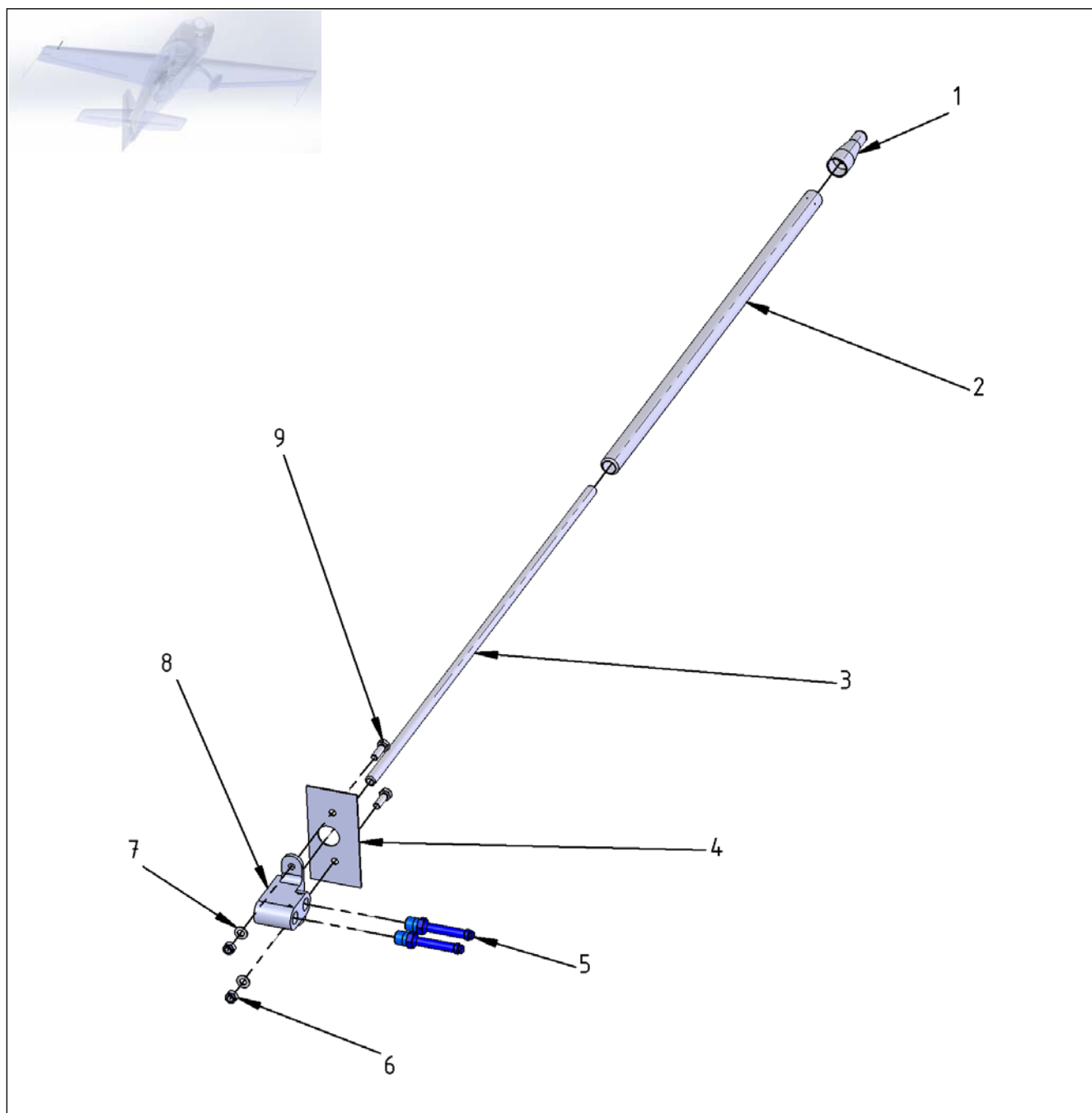


Figure 34-1 Environment Data – Pitot Tube

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Static System

1	01324	T- Fitting 6mm MS	9	
2	35203	Polyurethane Pneumatic Hose	1	
3	34777	Fitting UL 71-71	8	
4	35291	GSU 25	1	
5	71545.11	Drain Plug	1	

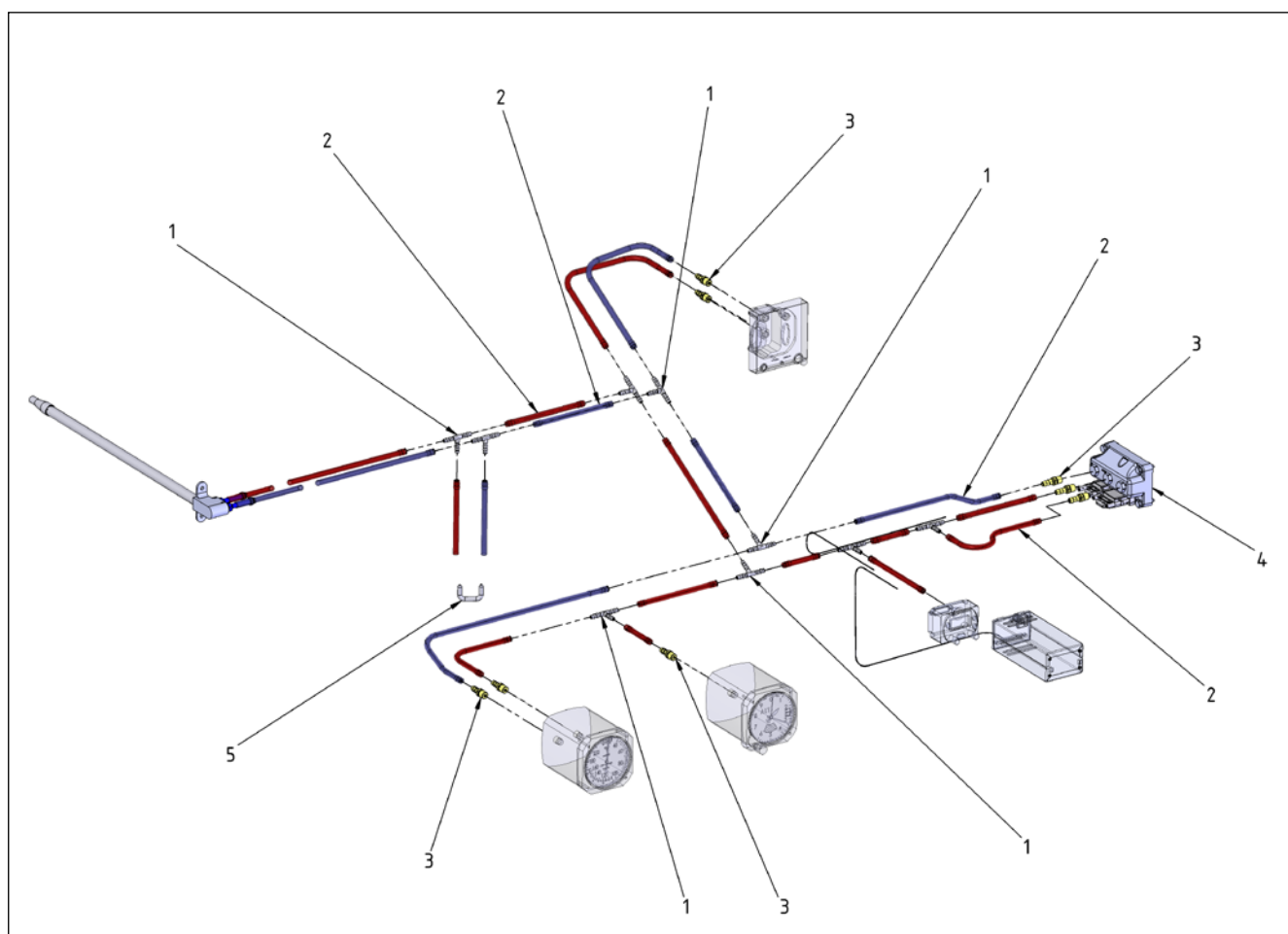


Figure 34-2 Environment Data – Static System

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Altimeter

Refer to Figure 31-3

Airspeed Indicator

Refer to Figure 31-3

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Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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34-20

Attitude and Direction

Magnetic Compass

Refer to Figure 31-3

Garmin GMU 11 Magnetometer

1	34997	Garmin GMU 11 Installation Kit <i>Attaching Parts</i>	1	
2	In 35278	Mounting Screw	4	
3	In 35278	Washer	4	
4	In 35278	Locknut Polystop	4	

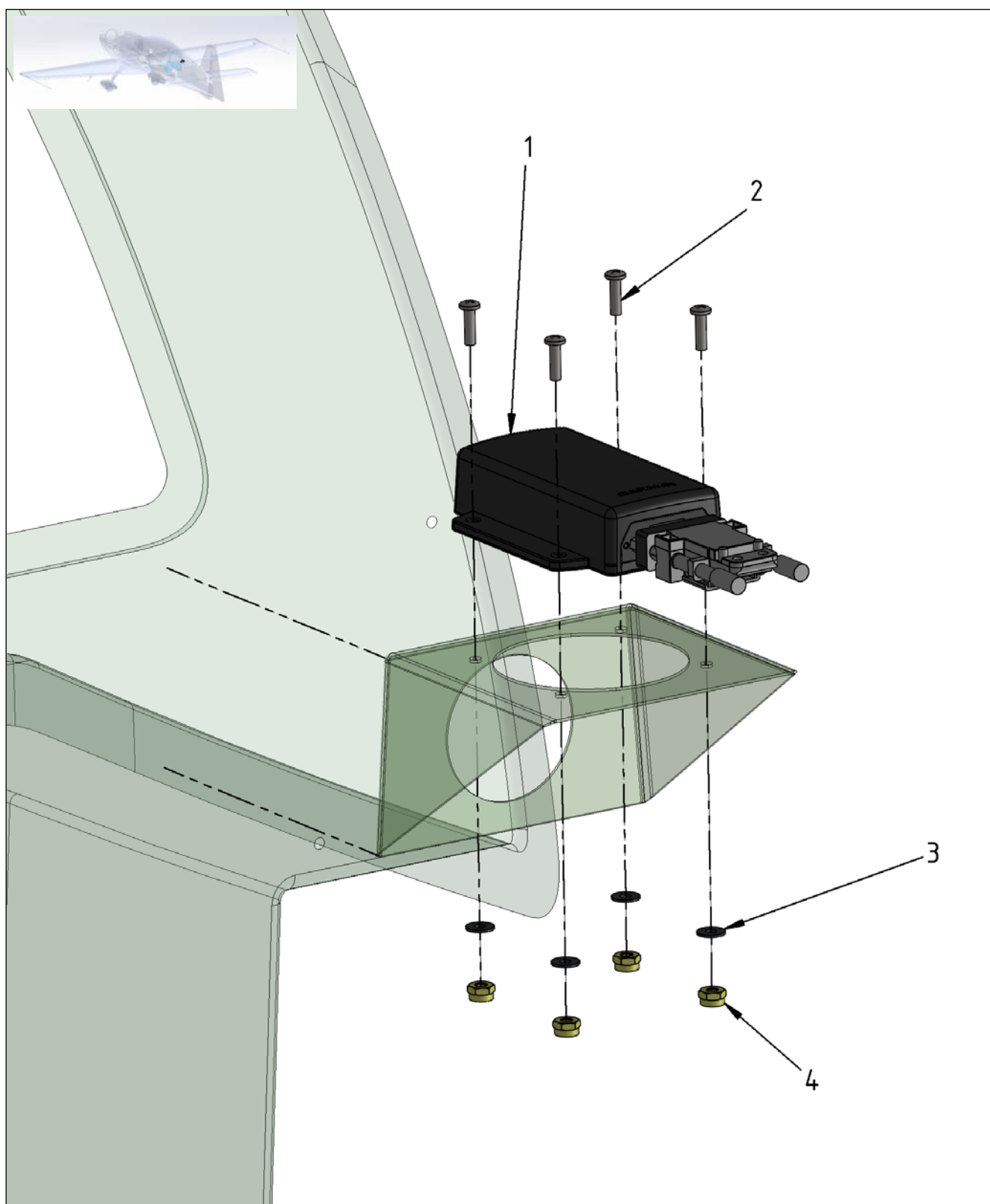


Figure 34-3 Attitude and Direction – Garmin GMU 11 Magnetometer

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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34-30		Taxi-Cam		
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1	81103.10	Lower Cowling with Hole	1	
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2	36831	Taxi Cam Parts Set	1	
		<i>Attaching Parts</i>		

3	02930	Cable Tie MS 367-1-x	14	

-	FE0025	Shrink Sleeve	1	
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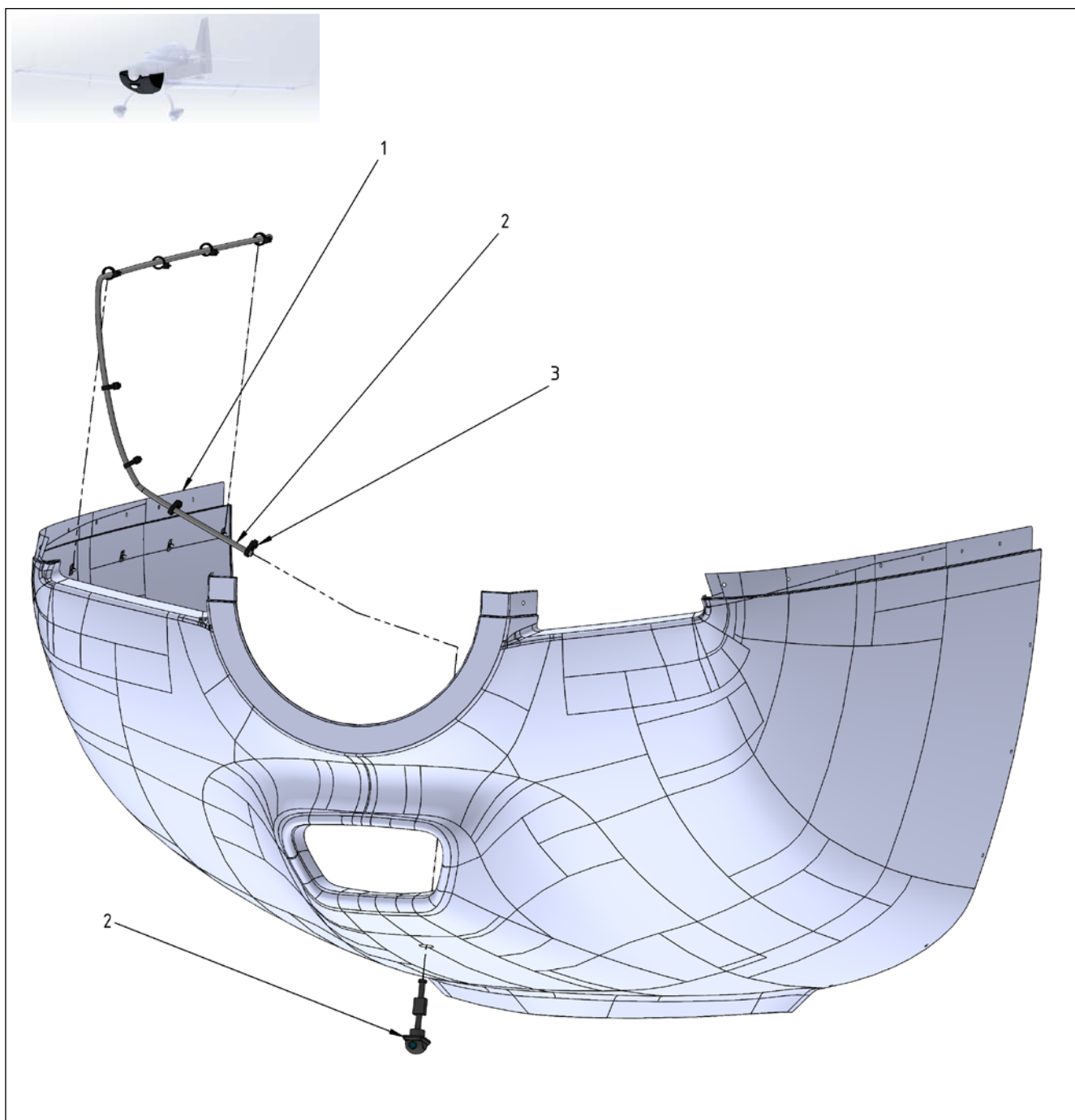


Figure 34-4 Taxi-Cam

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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34-50		Dependent Position Determining		
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		Transponder		
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1	35031	Transponder XPDR (Class 1) Kit	1	
-	35020	Transponder XPDR (Class 2) Kit	a	
3	In Kit	. Mounting Tray	1	
		<i>Attaching Parts</i>		
2	00202	Bolt AN3-3A	3	

For Controller refer to Figure 31-5

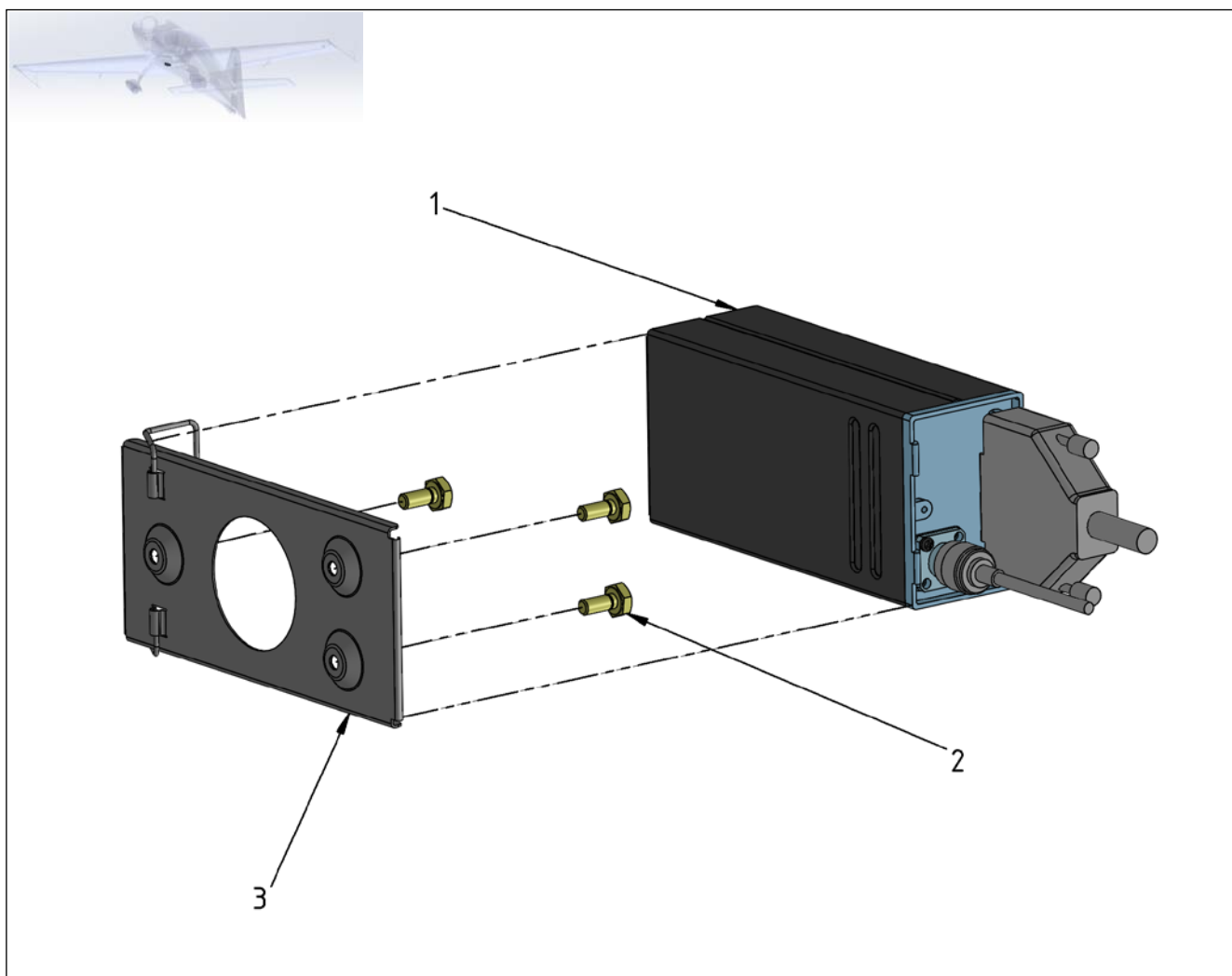


Figure 34-5 Dependent Position Determining - Transponder

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Garmin GDL 51R

1	35593	Garmin GDL 51R. PMA (optional) <i>Attaching Parts</i>	1	
2	NA4158	Washer AN960-6L	4	
3	MS35206-230	Bolt MS35206-230 ***	4	

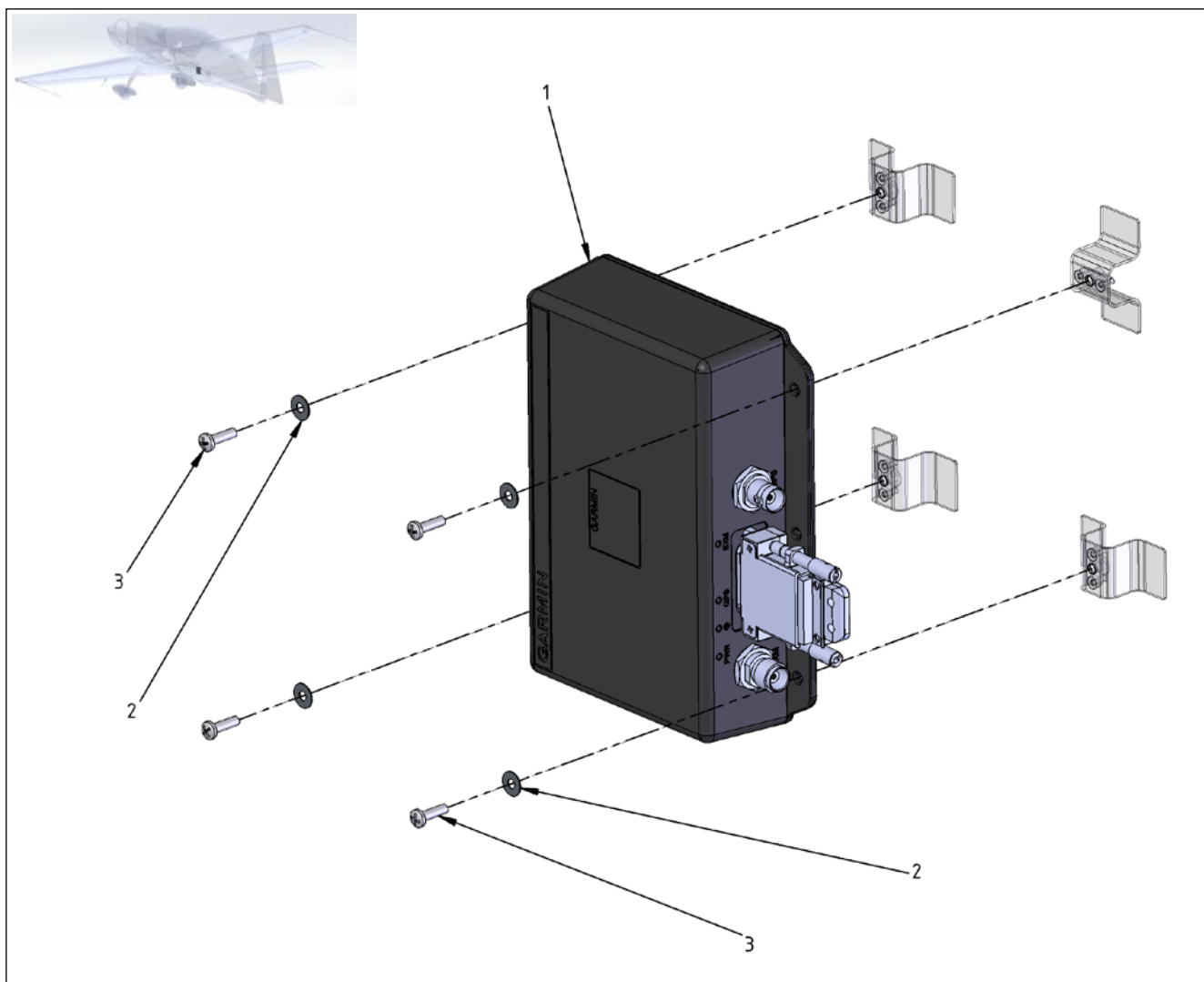


Figure 34-6 Dependent Position Determining – Garmin GDL 51R

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51

Standard Practices and Structures - General

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
51-00		Access Panels Fuselage	
1	21213.00-LV	Bottom Fuselage Access Panel (prep. for painting) <i>Attaching Parts</i>	1
7	35222	Bolt 10-32 x 3/4" FT (black)	16
8	35410	POM Washer (Black) ***	16
2	21212.00-LV	Belly Fairing Center Front (prep. for painting) <i>Attaching Parts</i>	1
7	35222	Bolt 10-32 x 3/4" FT (black)	12
8	35410	POM Washer (Black) ***	12
3	51102.10-LV	Wheel Pant LH (prepared for painting) <i>Attaching Parts</i>	1
4	149	Washer AN960-10L	2
5	00421	Spring Washer DIN127 A6	2
6	00202	Bolt AN3-3A ***	2
9	51102.20-LV	Wheel Pant RH (prepared for painting) <i>Attaching Parts</i>	1
4	149	Washer AN960-10L	2
5	00421	Spring Washer DIN127 A6	2
6	00202	Bolt AN3-3A ***	2
-	21211.10-LV	Cuff LH (prepared for painting) <i>Attaching Parts</i>	1
-	35224	Bolt 10-32 x 5/8" FT (black)	8
-	35410	POM Washer (Black) ***	8
-	21002.12	. Gasket Seal (Top)	1
-	21211.19	. Gasket Seal (Bottom)	1
-	21211.20-LV	Cuff RH (prepared for painting) <i>Attaching Parts</i>	1
-	35224	Bolt 10-32 x 5/8" FT (black)	8
-	35410	POM Washer (Black) ***	8
-	21002.12	. Gasket Seal (Top)	1
-	21211.19	. Gasket Seal (Bottom)	1

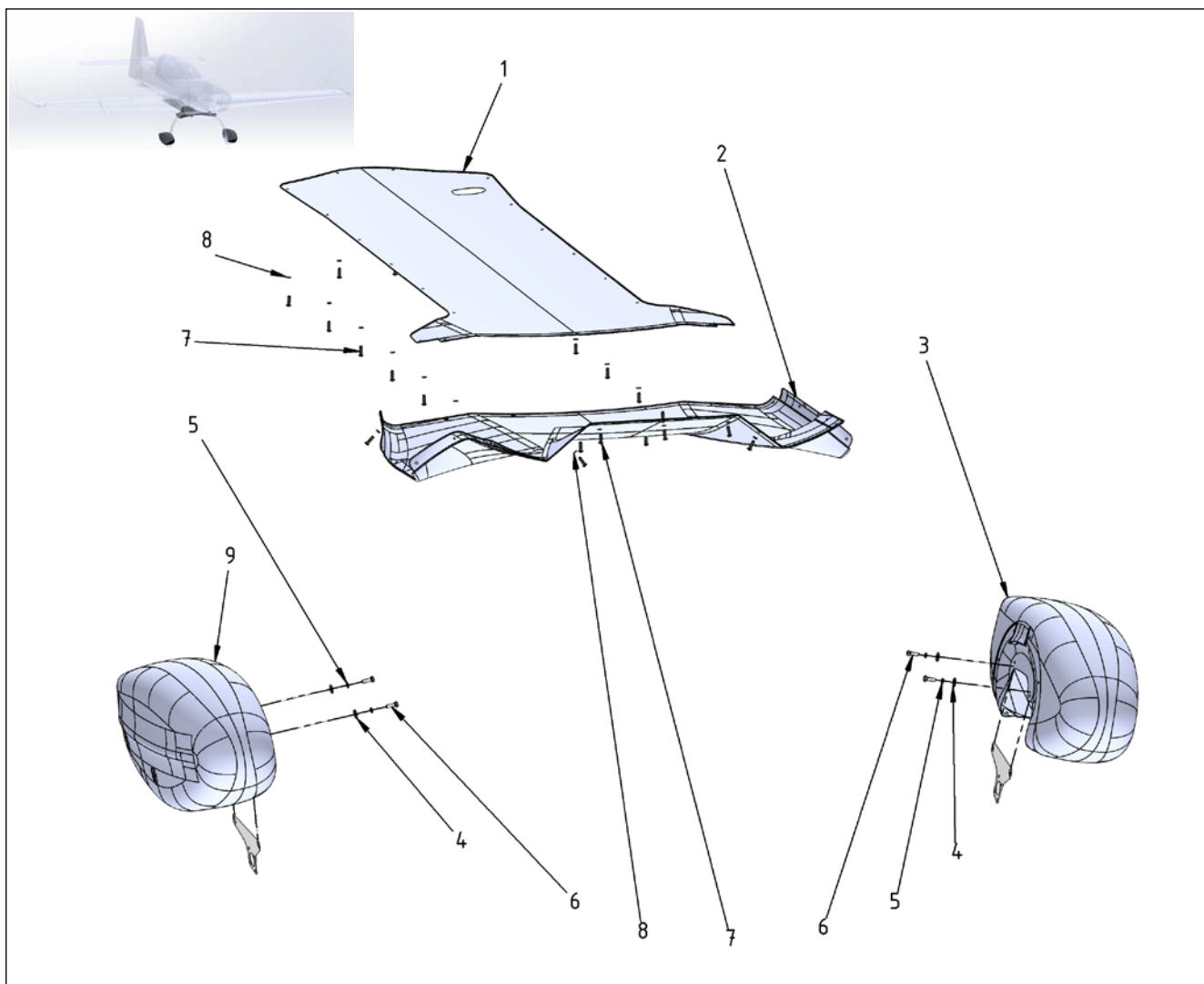


Figure 51-1 Access Panels Fuselage

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Access Panels Tail

1	21215.10-LV	Fuselage Rear Side Cover LH (prepared for painting)	1	
		<i>Attaching Parts</i>		
2	35223	Bolt 10-32 x 1/2" FT (black)	3	
5	35224	Bolt 10-32 x 5/8" FT (black)	5	
6	35410	POM Washer (Black)	8	

8	21215.20-LV	Fuselage Rear Side Cover RH (prepared for painting)	1	
		<i>Attaching Parts</i>		
2	35223	Bolt 10-32 x 1/2" FT (black)	3	
5	35224	Bolt 10-32 x 5/8" FT (black)	5	
6	35410	POM Washer (Black)	8	

3	21215.31	Elevator Inspection Window	2	
		<i>Attaching Parts</i>		
4	35529	Screw DIN 7981 B3,5 x 6,5 mm	4	

7	21216.00-LV	Cover Tailwheel Landing Gear (prepared for painting)	1	
		<i>Attaching Parts</i>		
2	35223	Bolt 10-32 x 1/2" FT (black)	8	
6	35410	POM Washer (Black)	8	

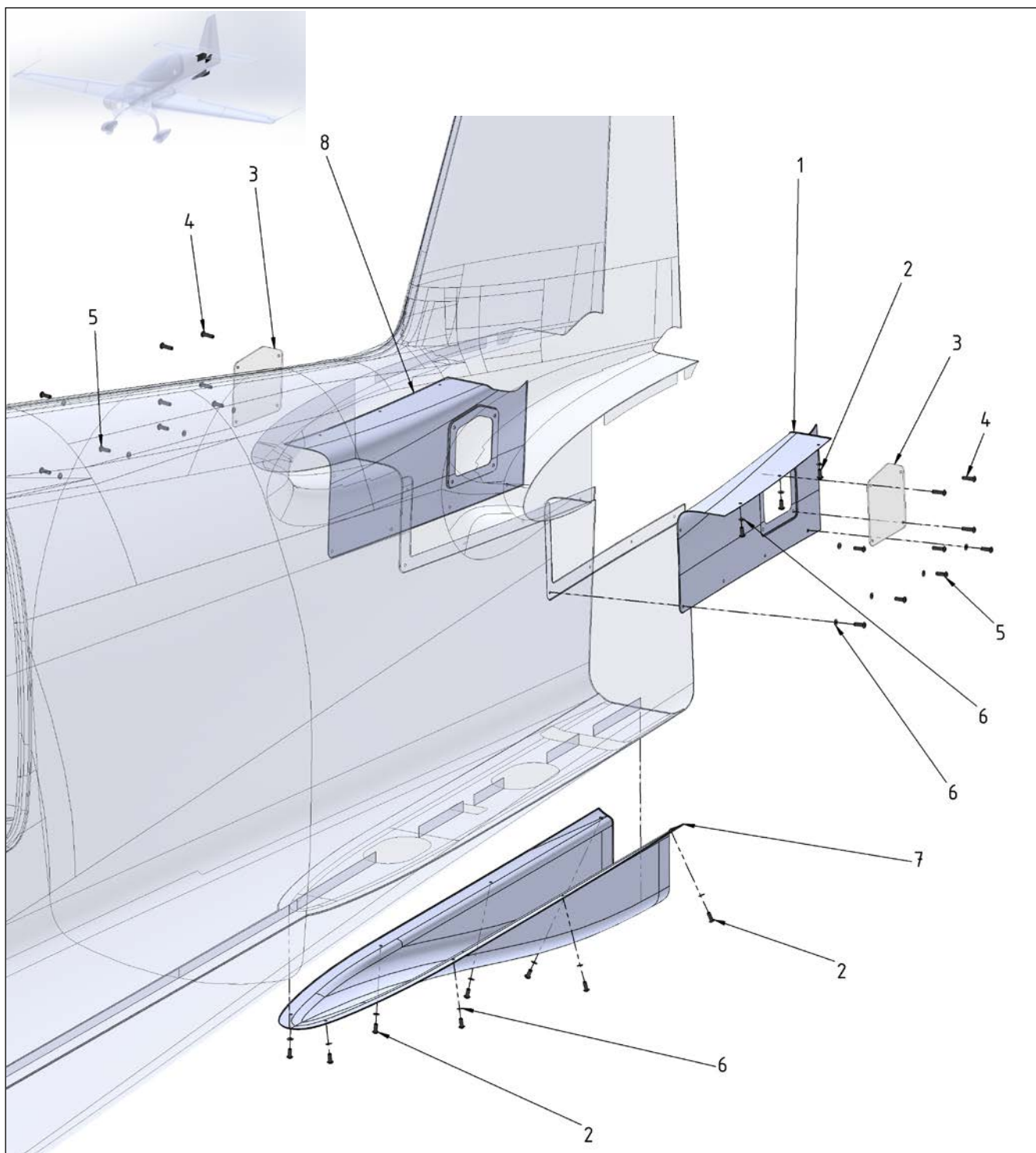


Figure 51-2 Access Panels Tail

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Access Panels Wings

1	21214.20-LV	Lower Wing Fairing RH (prepared for painting) <i>Attaching Parts</i>	1	
4	35222	Bolt 10-32 x 3/4" FT (black)	3	
5	35224	Bolt 10-32 x 5/8" FT (black)	9	
3	35410	POM Washer (Black) ***	12	
2	21214.10-LV	Lower Wing Fairing LH (prepared for painting) <i>Attaching Parts</i>	1	
4	35222	Bolt 10-32 x 3/4" FT (black)	3	
5	35224	Bolt 10-32 x 5/8" FT (black)	9	
3	35410	POM Washer (Black) ***	12	
6	13101.005-02	Wing Inboard Access Panel <i>Attaching Parts</i>	2	
8	35529	Metal Sheet Screw DIN7981 B3,5 x 6,5 ***	4	
7	13101.005-01	Wing Outboard Access Panel <i>Attaching Parts</i>	2	
8	35529	Metal Sheet Screw DIN7981 B3,5 x 6,5 ***	4	

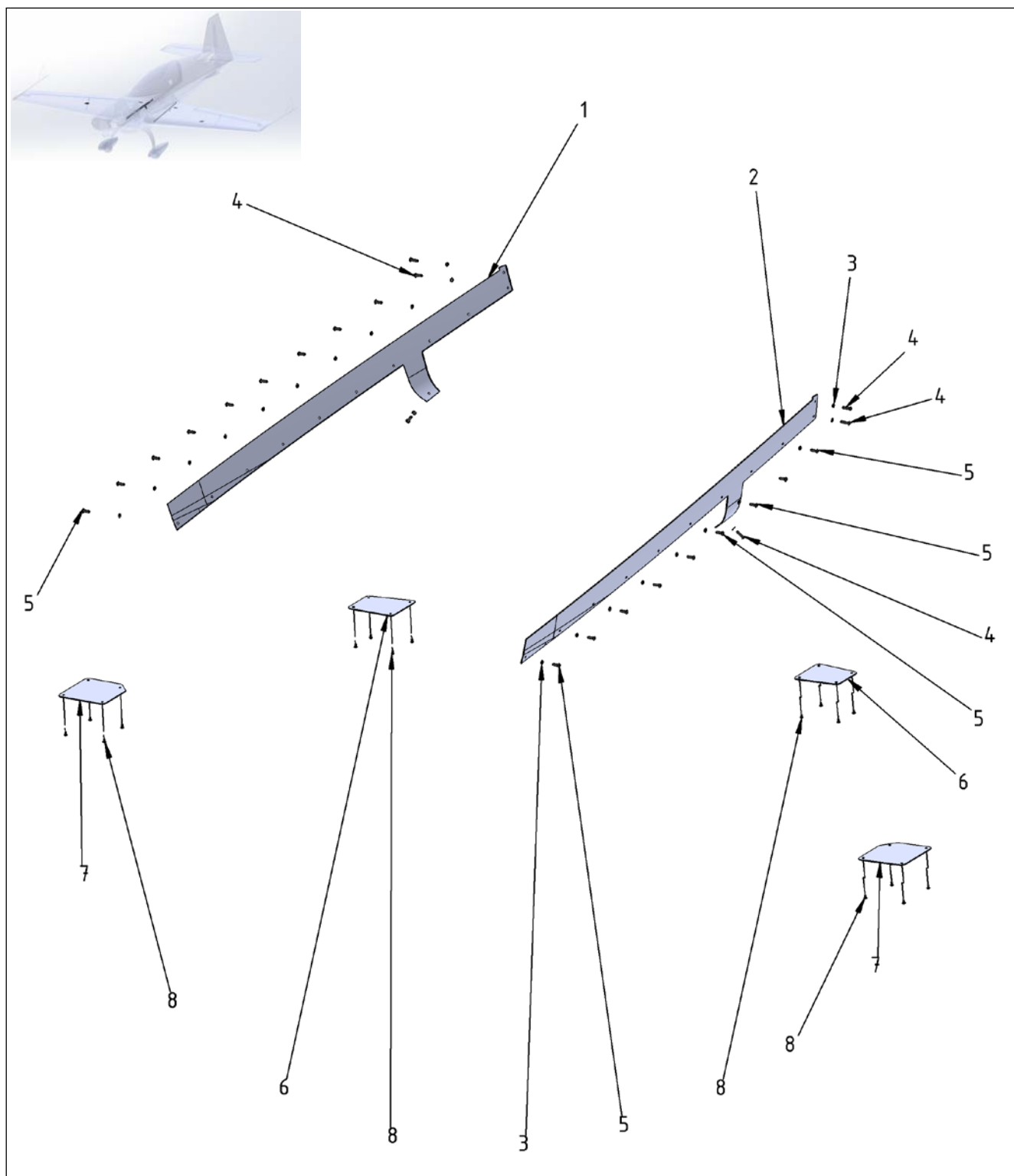


Figure 51-3 Access Panels Wings

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Access Panels Engine Compartment

1	21210.20-VM	Upper Cowling incl. Oil Hatch (prepared for painting)	1	
		<i>Attaching Parts</i>		
4	07051	POP Blind Rivet 3,2 x 7,2 Countersunk 120°	4	
8	35410	POM Washer 9x4,5x0,8 mm (Black)	27	
9	35224	Bolt 10-32 x 1/2" FT (Black)	27	

5	21210.30	. Oil Filler Cap Access Hatch	1	
2	21210.34	.. Hinge Half Cowling	1	
3	21210.35	.. Hinge Half Hatch	1	
4	07051	.. POP Blind Rivet 3,2 x 7,2 mm Countersunk 120°	4	
6	21210.36	.. Hinge Pin	1	
7	21210.50	Lower Cowling	1	
		<i>Attaching Parts</i>		
8	35410	POM Washer (Black)	10	
9	35224	Bolt 10-32 x 1/2" FT (Black)	10	

10	21210.81	. Induction Screen	1	
11	21210.70	. Air Duct	1	
12	ND4170	. Washer DIN125-A 4,3 A2	4	
13	ND4157	. POP Blind Rivet 2,4 x 6,0 mm Countersunk 120°	4	

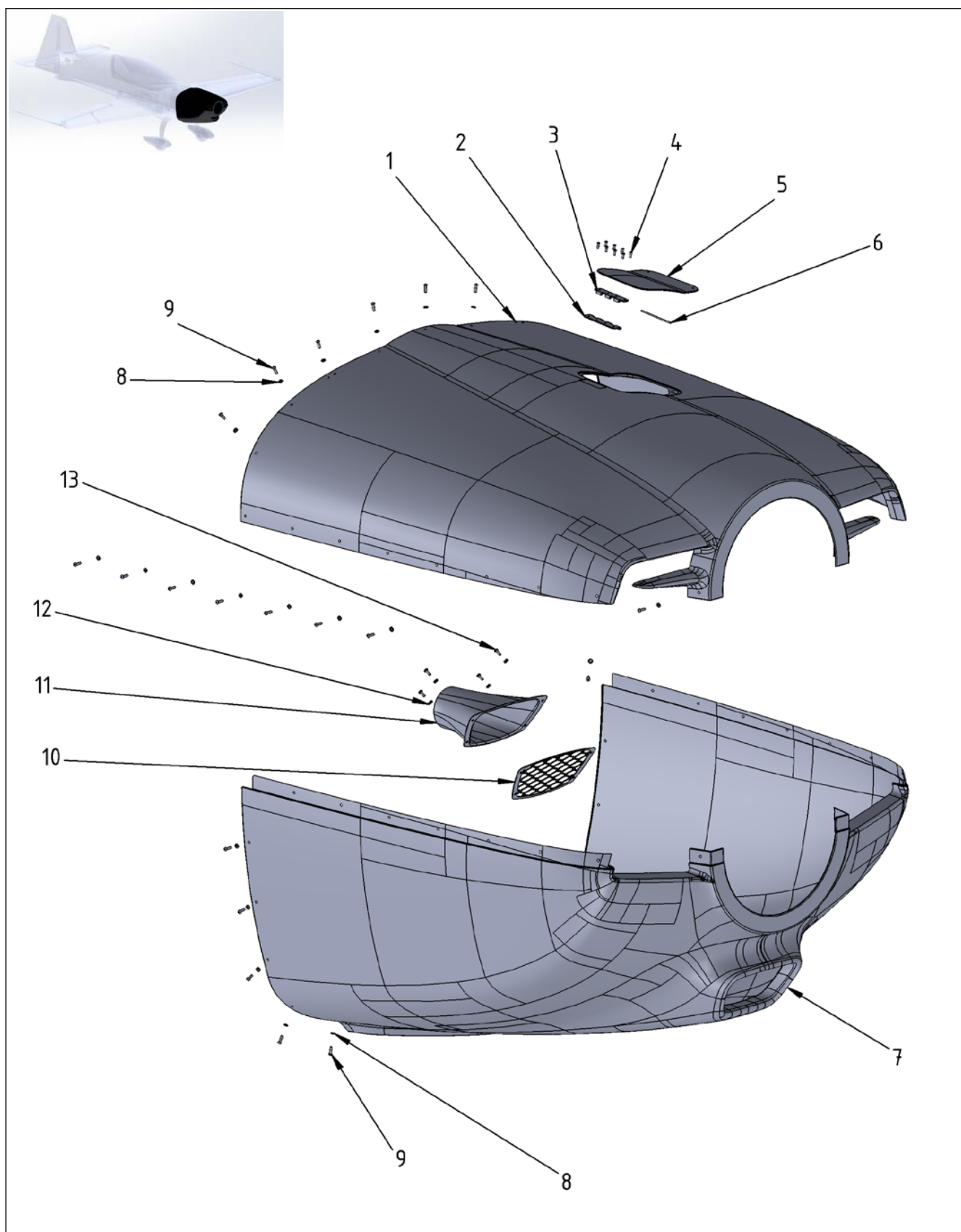


Figure 51-4 Access Panels Engine Compartment

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
Access Panels Engine Compartment (NACA)				
1	21210.20-VM	Upper Cowling incl. Oil Hatch (prepared for painting)	1	
<i>Attaching Parts</i>				
4	07051	POP Blind Rivet 3,2 x 7,2 Countersunk 120°	4	
8	35410	POM Washer 9x4,5x0,8 mm (Black)	27	
9	35224	Bolt 10-32 x 1/2" FT (Black)	27	

5	21210.30	. Oil Filler Cap Access Hatch	1	
2	21210.34	.. Hinge Half Cowling	1	
3	21210.35	.. Hinge Half Hatch	1	
4	07051	.. POP Blind Rivet 3,2 x 7,2 mm Countersunk 120°	4	
6	21210.36	.. Hinge Pin	1	
7	81102.10	Lower Cowling with NACA-Inlet	1	≥89
<i>Attaching Parts</i>				
8	35410	POM Washer (Black)	10	
9	35224	Bolt 10-32 x 1/2" FT (Black)	10	

10	21210.81	. Induction Screen	1	
11	21210.70	. Air Duct	1	
12	ND4170	. Washer DIN125-A 4,3 A2	4	
13	ND4157	. POP Blind Rivet 2,4 x 6,0 mm Countersunk 120°	4	

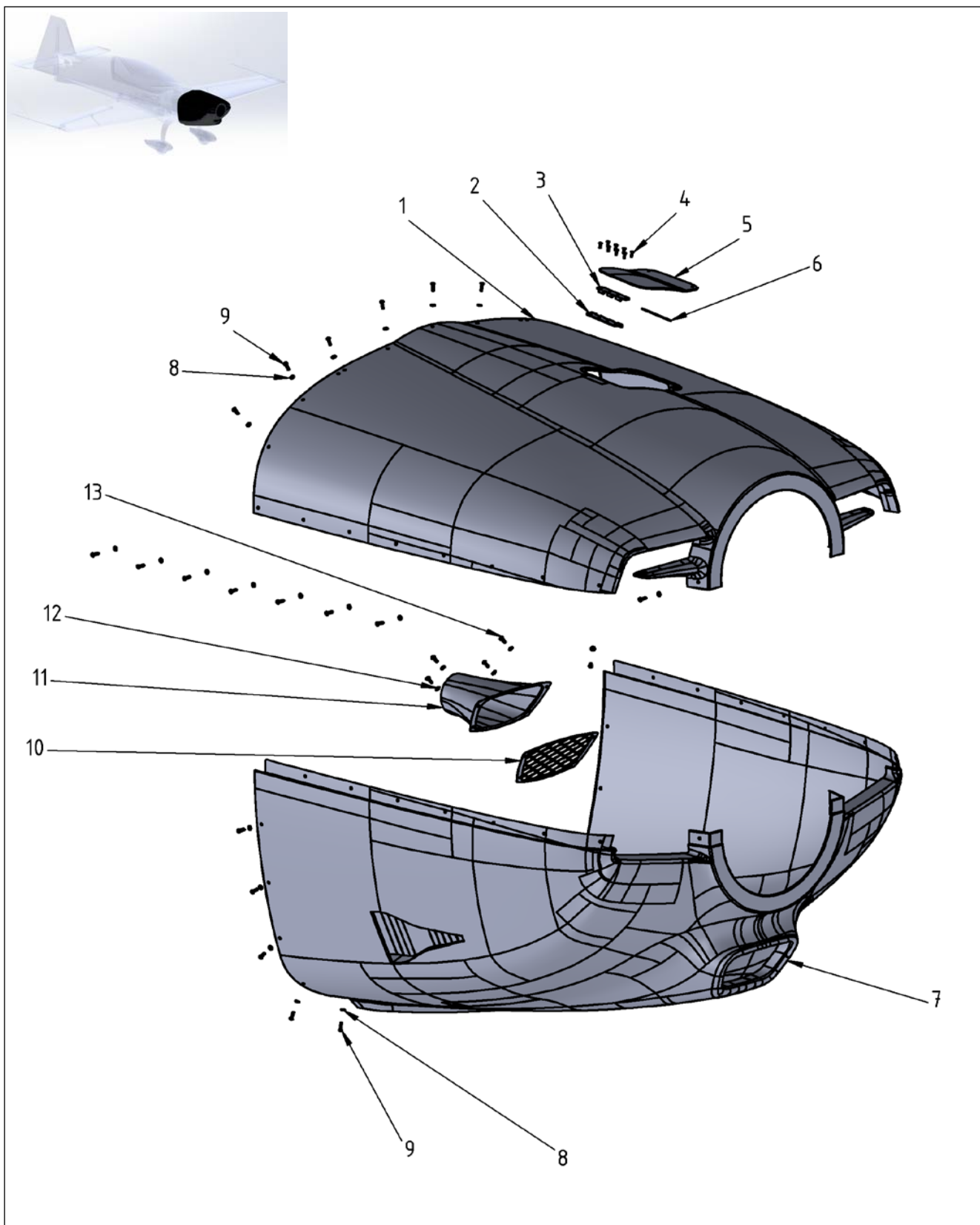


Figure 51-5 Access Panels Engine Compartment (NACA)

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53

Fuselage

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
53-10		Firewall		
1	35162	Firewall Fitting TTP-6100-260	1	
4	61503.01	Firewall Shroud Cover	1	
		<i>Attaching Parts</i>		
2	00802	Nut MS21042-3	24	
3	00202	Bolt AN3-3A	24	

7	61501.10-FB	Breather Fitting Line	1	
8	61503.03	Firewall Shroud CHS Cover	1	
		<i>Attaching Parts</i>		
5	84	Washer AN960-C8L	8	
9	35207	Bolt NAS1352C08-20	4	
14	30970	Nut MS21042-08	4	
16	61501.05	Spacer Sleeve CHS	4	

10	61501.40-FB	Firewall Lead-Through RH	1	
15	35169	3/4 x 3/4 Fairlead Assembly	2	
		<i>Attaching Parts</i>		
5	84	Washer AN960-C8L	6	
6	35384	Bolt NAS1352-08-6P	3	
14	30970	Nut MS21042-08	3	

11	61205.11	Bulkhead Fitting Gascolator	1	
		<i>Attaching Parts</i>		
12	01852	Washer AN960-C916	2	
13	177	Nut AN924-6D	1	

18	61501.20-FB	Firewall Lead-Through	1	
15	35169	3/4 x 3/4 Fairlead Assembly	3	
17	00116	3/4 x 1 Fairlead Assembly	1	
		<i>Attaching Parts</i>		
5	84	Washer AN960-C8L	8	
6	35384	Bolt NAS1352-08-6P	4	
14	30970	Nut MS21042-08	4	

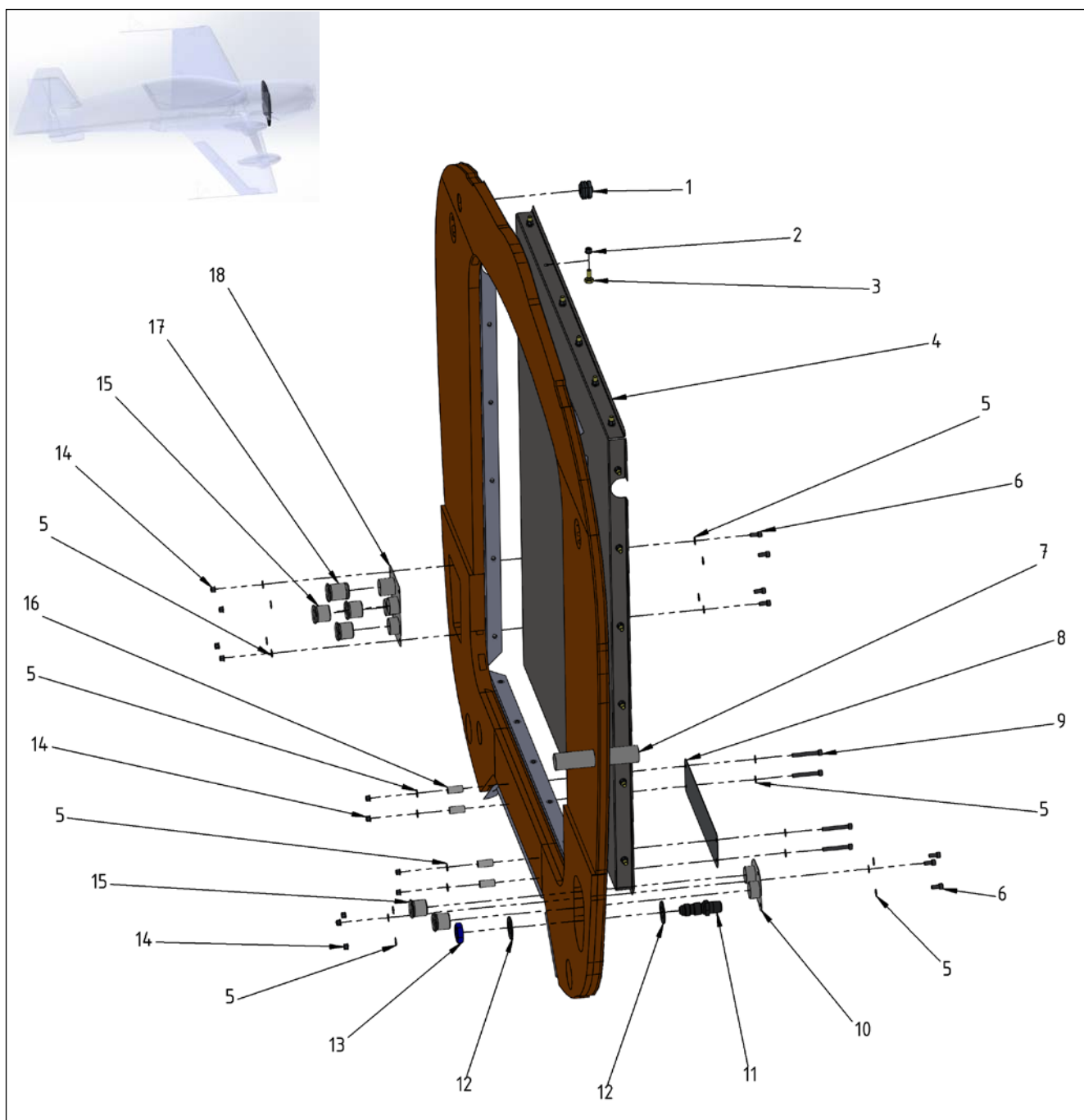


Figure 53-1 Firewall

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
53-20		Canopy		
1	21300.00-LV	Canopy (prepared for painting)	1	
2	21301.02	Canopy Handle	4	
3	21301.03	Canopy Belt	1	
		<i>Attaching Parts</i>		
4	00202	Bolt AN3-3A	1	
5	00564	Washer DIN9022 5,3x20	1	
6	35850	Bolt DIN933 M4x12	1	
7	01075	Washer DIN125 - 4,3	1	
8	01151	Washer DIN9021 4,3x12	1	
9	35851	Cap Nut DIN986 M4	1	

11	04183	Sliding Window	1	
		<i>Attaching Parts</i>		
10	00282	Window Rails (8 Polyamid-Bolts included)	1	
12	In 00282	Bolt DIN964 KST	8	

13	35201	Sealing ADEH12	1	

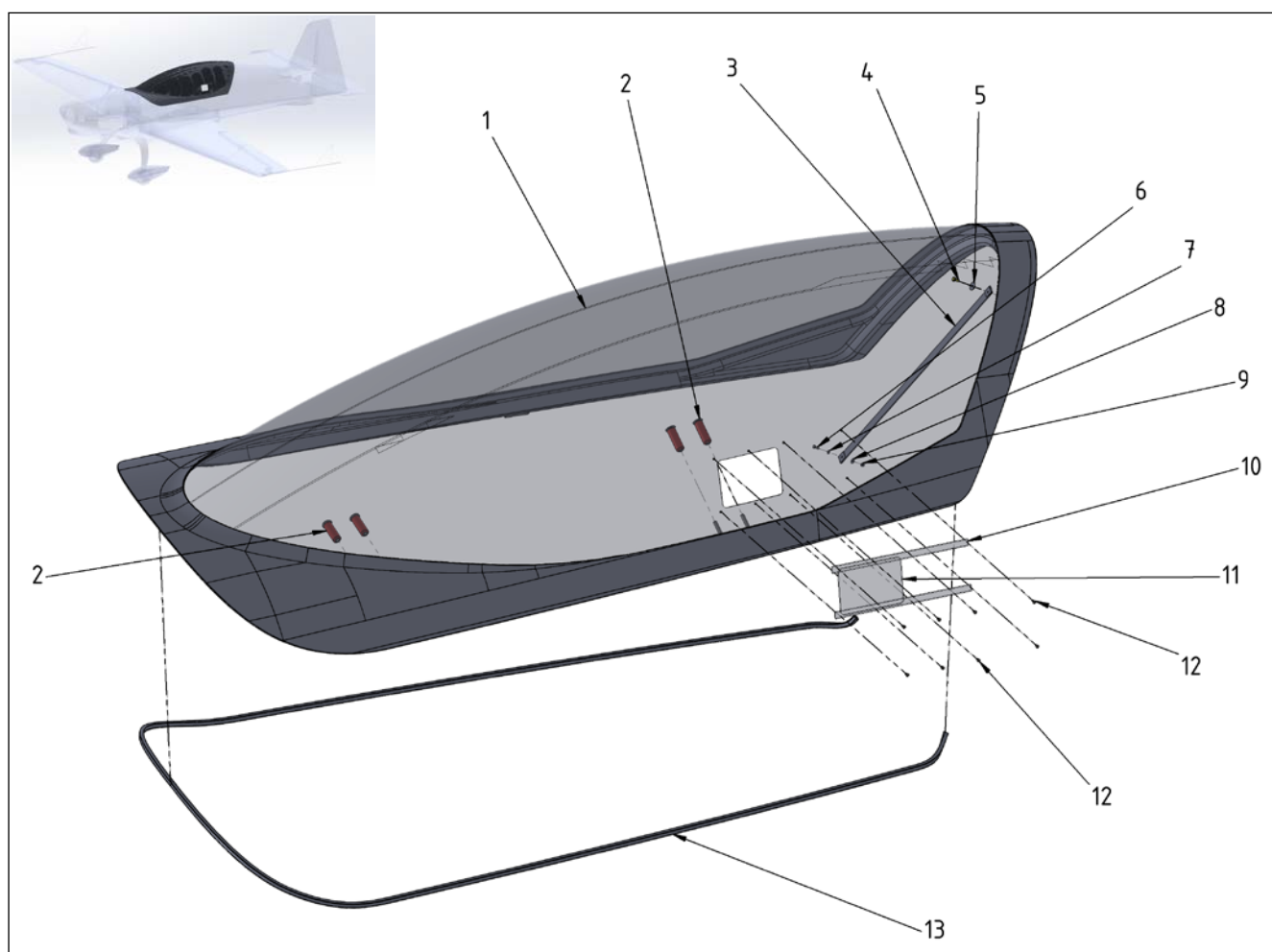


Figure 53-2 Canopy

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
Single Seat Canopy				
1	81131.00	Single Seat Canopy	1	
2	21301.02	Canopy Handle	2	
3	21301.03	Canopy Belt	1	
		<i>Attaching Parts</i>		
4	00202	Bolt AN3-3A	1	
5	00564	Washer DIN9022 5,3x20	1	
6	35850	Bolt DIN933 M4x12	1	
7	01075	Washer DIN125 - 4,3	1	
8	01151	Washer DIN9021 4,3x12	1	
9	35851	Cap Nut DIN986 M4	1	

11	04183	Sliding Window	1	
		<i>Attaching Parts</i>		
10	00282	Window Rails (8 Polyamid-Bolts included)	1	
12	In 00282	Bolt DIN964 KST	8	

13	35201	Sealing ADEH12	1	

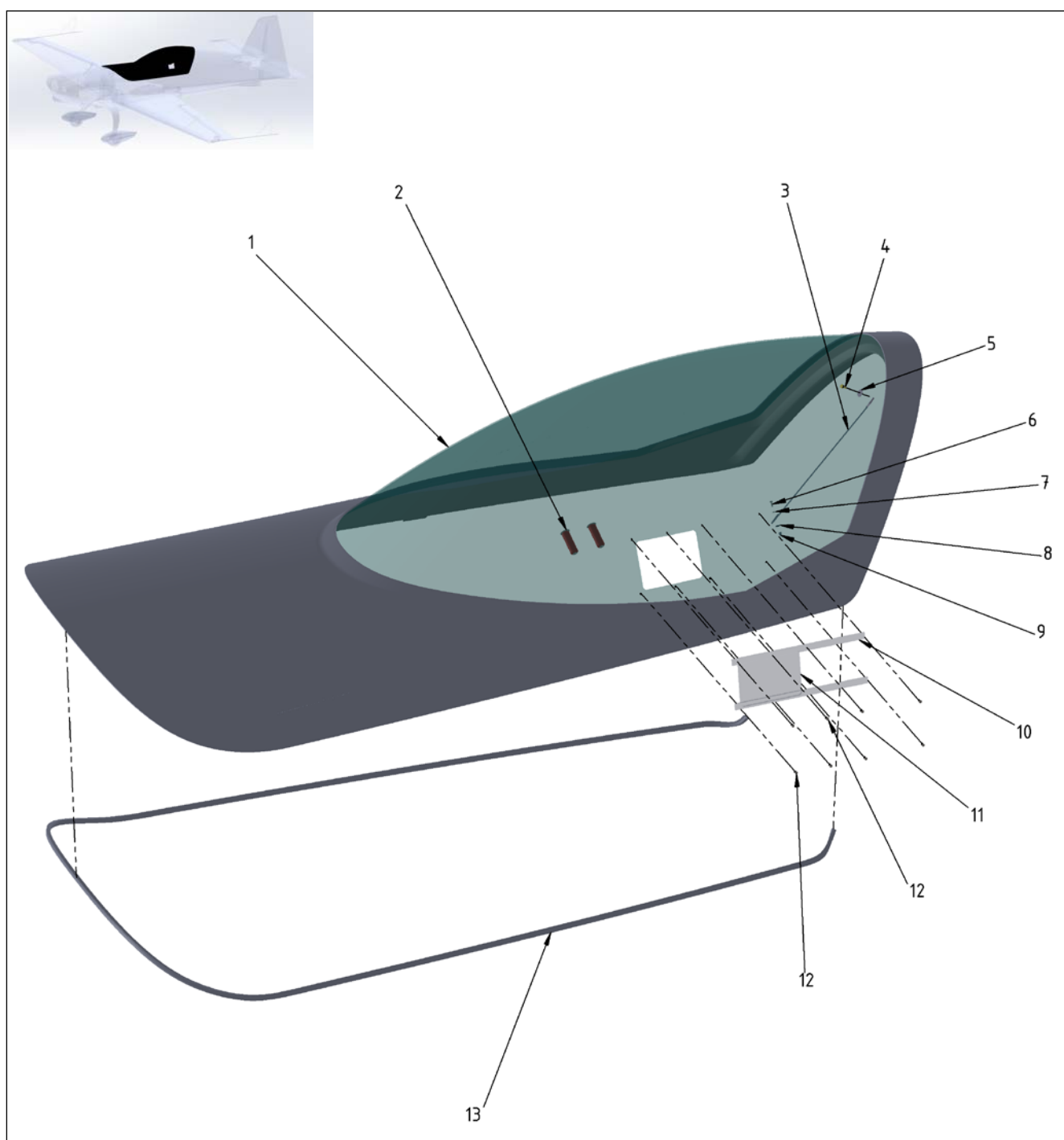


Figure 53-3 Single Seat Canopy

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Canopy Attachment

1	21431.10	Canopy Bearing Pin Assembly	3	
2	21432.20	Canopy Hinge	3	
		<i>Attaching Parts</i>		
3	178	Bolt MS24694C52	3	

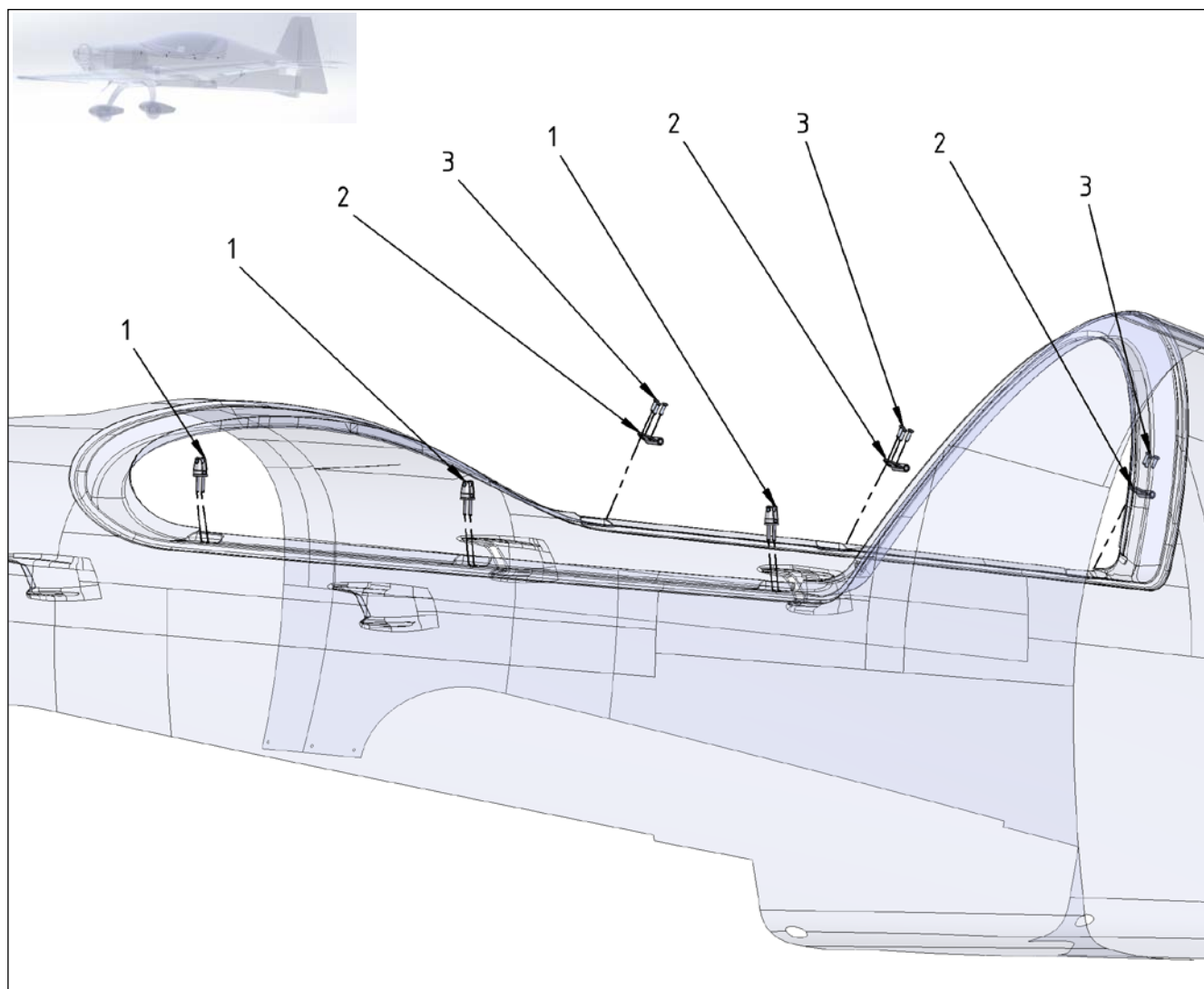


Figure 53-4 Canopy Attachment

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
53-40		Footstep		
1	21462.00-LK	Footstep	1	
		<i>Attaching Parts</i>		
2	ND4157	POP Blind Rivet 2,4 x 6,0 mm Countersunk 120°	8	
3	00204	Bolt AN3-5A	4	
4	35087	Washer AN970-3	4	
6	00583	Nut Plate MS21069-L3 ***	4	
5	00116	3/4 x 1 Fairlead Assembly	1	

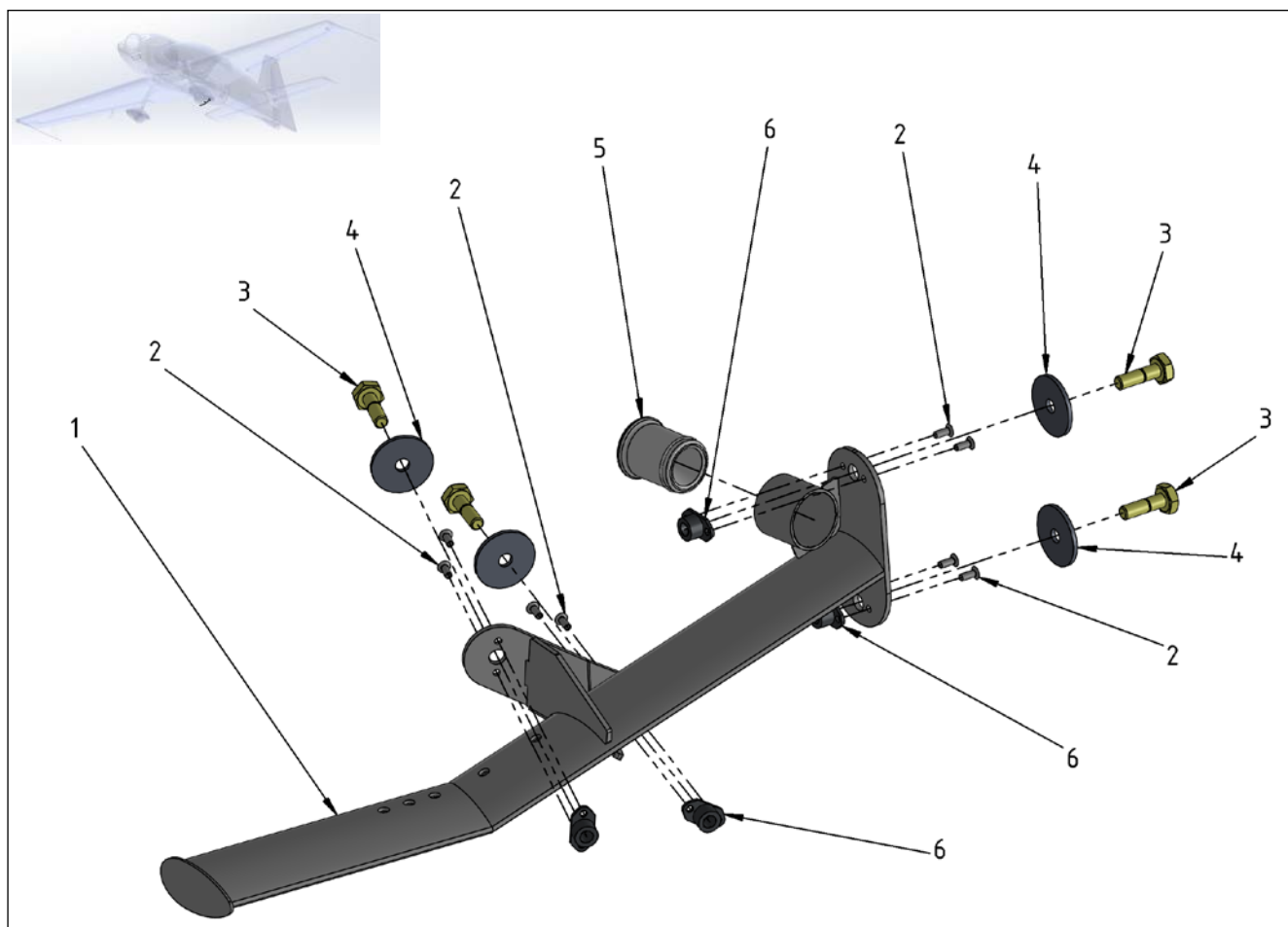


Figure 53-5 Footstep

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55

Stabilizers

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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55-10 Horizontal Stabilizer

1	31300.00-LV	Horizontal Stabilizer (prepared for painting)	1	
4	31621.00-VM	Elevator Bearing cpl.	4	
-	31320.10	Grounding Cable	1	
		<i>Attaching Parts</i>		
2	01242	Bolt AN4-13A	2	
3	35083	Washer AN960-416L	2	

8	34875	. Bearing MS27643-3	1	
7	31621.00-VM	Elevator Bearing cpl. (Center Position)	1	
-	31320.10	Grounding Cable	1	
-	31320.20	Grounding Cable	1	
		<i>Attaching Parts</i>		
2	01242	Bolt AN4-13A	2	
3	35083	Washer AN960-416L	1	
5	25090	Washer AN960-416	1	
6	NA4130	Bolt AN4-14A	1	
11	04247	Nut AN365-428	2	
12	01227	Washer DIN9021 6,4 x 18 x 1,6 mm	2	

8	34875	. Bearing MS27643-3	1	
9	31020.11	Main Bolt Elevator	2	
10	35173	Fokker Needle LN9303-15	2	
15	04112	Edge Protection Foil		

(missing Parts belong to Connection Plates
below)

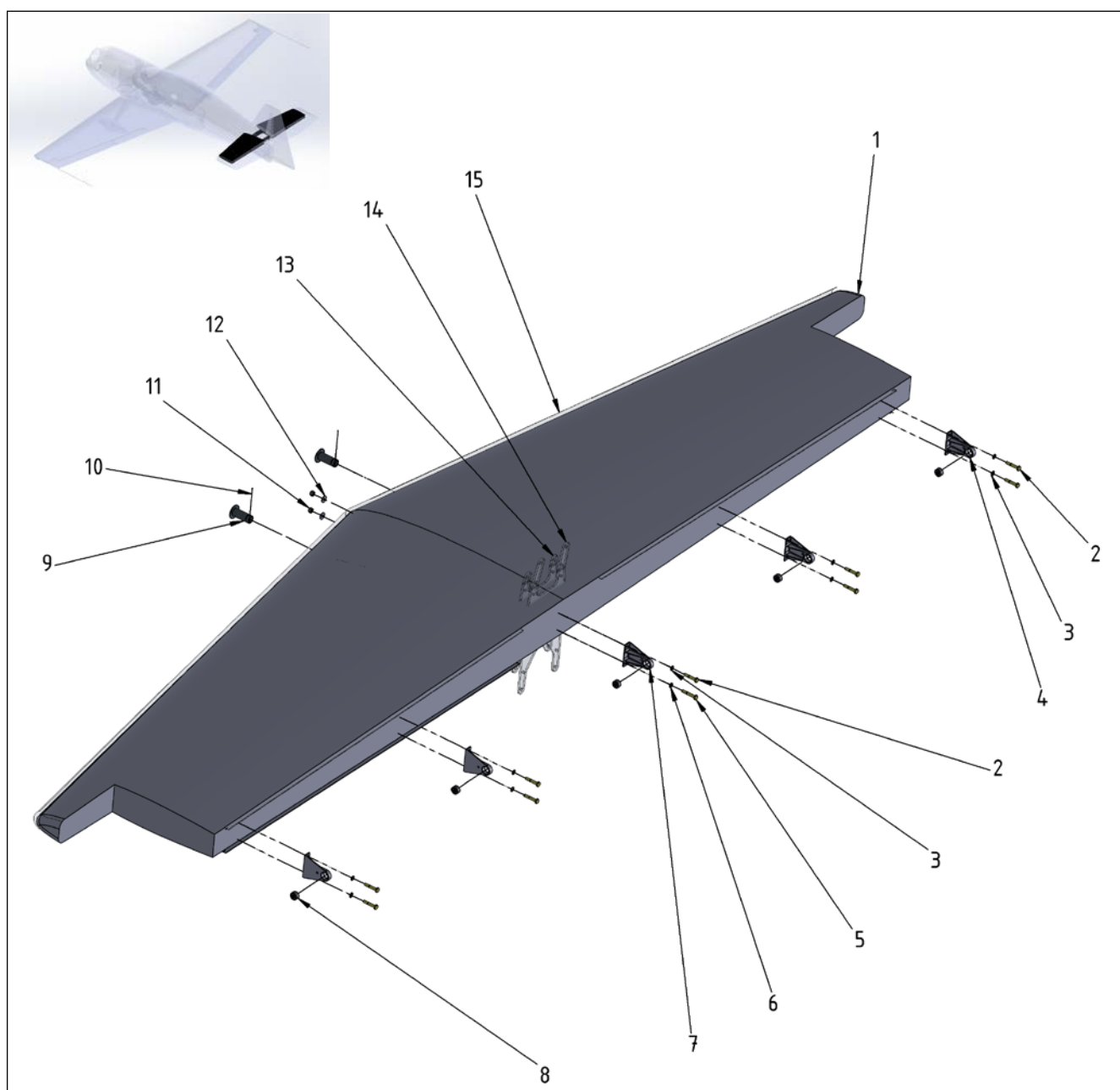


Figure 55-1 Horizontal Stabilizer

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Connection Plates

1	31300.00-LV	Horizontal Stabilizer (prepared for painting)	1	
10	31031.00-FB	Connection Plate Front	1	
11	31032.00-FB	Connection Plate Rear	1	
<i>Attaching Parts</i>				
12	01242	Bolt AN4-13A	4	
13	35099	Bolt AN4-15A	10	
14	31248	Washer AN960-616	4	
15	76	Bolt AN6-17A	2	
16	NA4125	Washer AN960C-416L	28	
17	NA3000	Nut AN365-624A	2	
18	04247	Nut AN365-428	14	

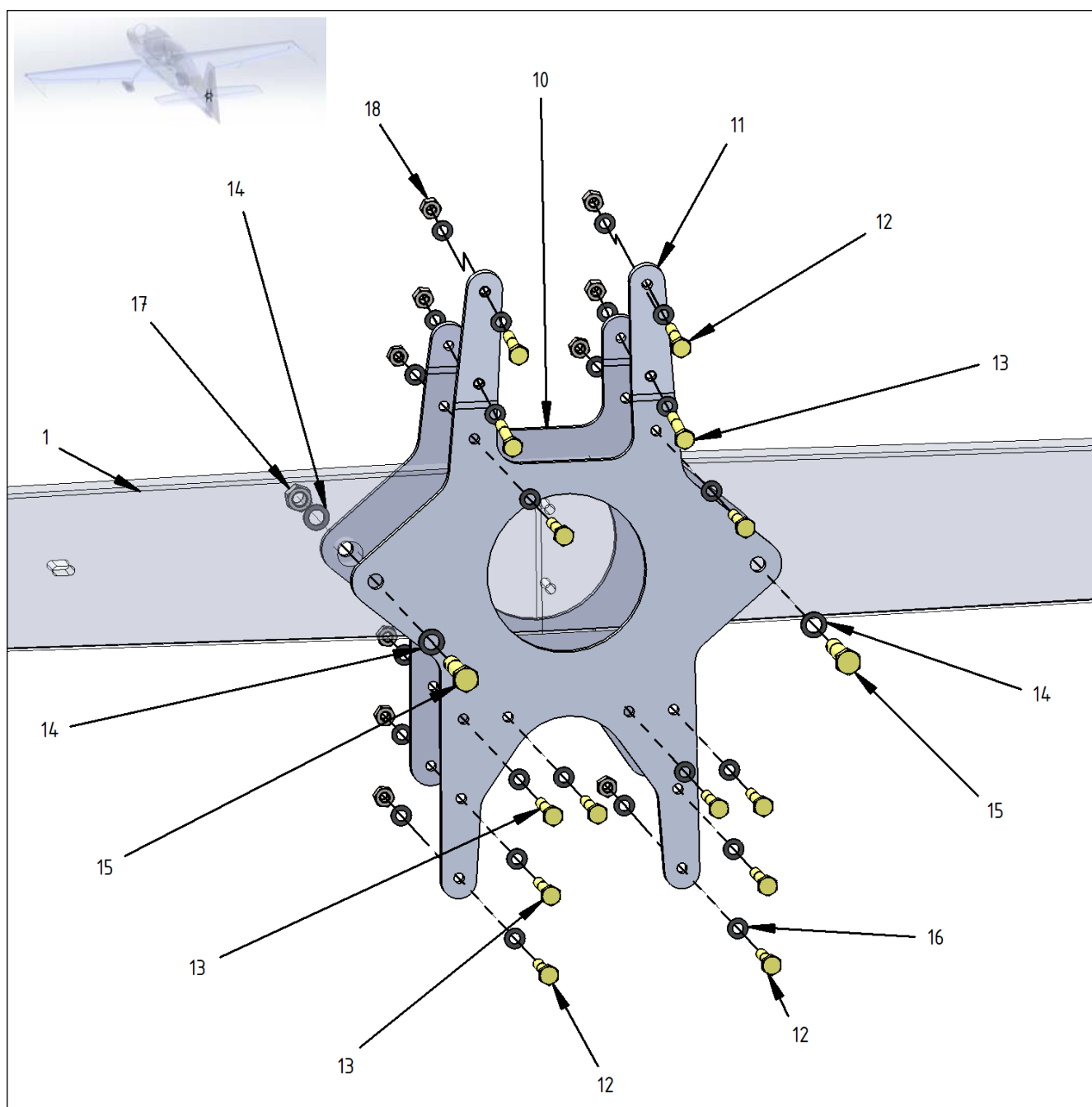


Figure 55-2 Connection Plates

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57

Wing

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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57-00

General

Wing & Main Wing Bolts

1	11000.00-LV	Wing with Ailerons prepared for painting <i>Attaching Parts</i>	1	
2	00418	Washer DIN125 – A 8,4	4	
3	00078	Nut LN9348-08	2	
4	00672	Bolt LN 9037-08050 ***	2	
7	36625	Wing Tread Protection	1	
10	11010.01	Main Wing Bolt <i>Attaching Parts</i>	2	
2	00418	Washer DIN125 – A 8,4	2	
5	700025	Bolt AN5H5A	2	
6	13102.006	Washer D30xd8x4	2	
8	07038	Nutplate Rivet 3/32" x 3/16" Countersunk 100°	4	
9	11010.02	Main Bolt Safety Bracket ***	2	

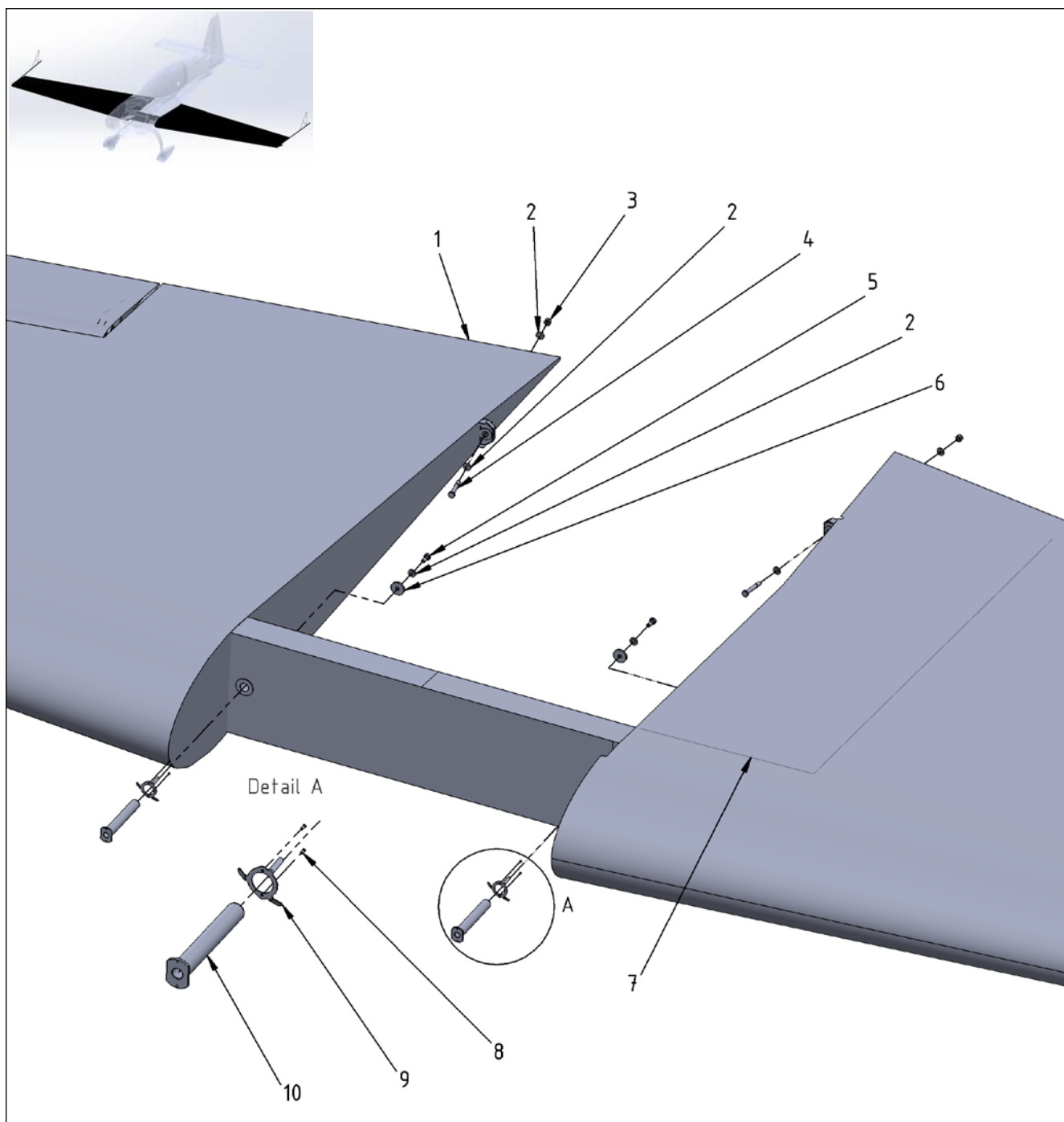


Figure 57-1 Wing & Main Wing Bolt

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
57-30		Wing Tip		
		Wing Tip for Standard Ailerons		
-	11002.30	Wing Tip LH (Version 1) <i>Attaching Parts</i>	1	≤054
-	500003	Bolt DIN7984 M4 x 20	5	
-	ND4170	Bolt DIN125 – A 4,3 ***	1	
-	11002.40	Wing Tip RH (Version 1) <i>Attaching Parts</i>	1	≤054
-	500003	Bolt DIN7984 M4 x 20	5	
-	ND4170	Bolt DIN125 – A 4,3 ***	1	
-	81911.10	Wing Tip LH (Version 2) <i>Attaching Parts</i>	1	≥055
-	178	Bolt MS24694C52 ***	6	
-	81911.20	Wing Tip RH (Version 2) <i>Attaching Parts</i>	1	≥055
-	178	Bolt MS24694C52 ***	6	

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Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
Wing Tip for Improved Ailerons				
-	11002.30 A	Wing Tip LH (without Sighting Device) <i>Attaching Parts</i>	1	≥055
-	178	Bolt MS24694-C-52 ***	6	
-	11002.40 A	Wing Tip RH (without Sighting Device) <i>Attaching Parts</i>	1	≥055
-	178	Bolt MS24694-C-52 ***	6	
-	81921.10	Wing Tip LH (with Sighting Device) <i>Attaching Parts</i>	1	≥055
-	178	Bolt MS24694-C-52 ***	6	
-	81921.20	Wing Tip RH (with Sighting Device) <i>Attaching Parts</i>	1	≥055
-	178	Bolt MS24694-C-52 ***	6	

57-60

Ailerons

Refer to Chapter 27-10

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Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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57-70

Sighting Device

Sighting Device for Standard Ailerons

1	81801.10	Sighting Device	2	
		<i>Attaching Parts</i>		
2	00539	Bolt DIN931 M5 x 60	1	
3	00416	Washer DIN125 5,3 x 10 x 1,0 mm	2	
4	81801.21	Sight Holder FWD	1	
5	81801.22	Spacer Block	1	≤054
	81801.22 A	Spacer Block	a	≥055
6	DIN965-025016-11	Bolt DIN965 M2,5 x 16	2	
7	NL4137	Nut LN29679 AM5	2	
8	ND4277	Washer DIN125 2,7 mm	2	
9	31241	Nut DIN 985 M2,5	2	

Sighting Device for Improved Ailerons

-	81801.30	Sighting Device	2	≥055
-	81801.32	. End Cap	1	
-	81801.33	. Cord	1	

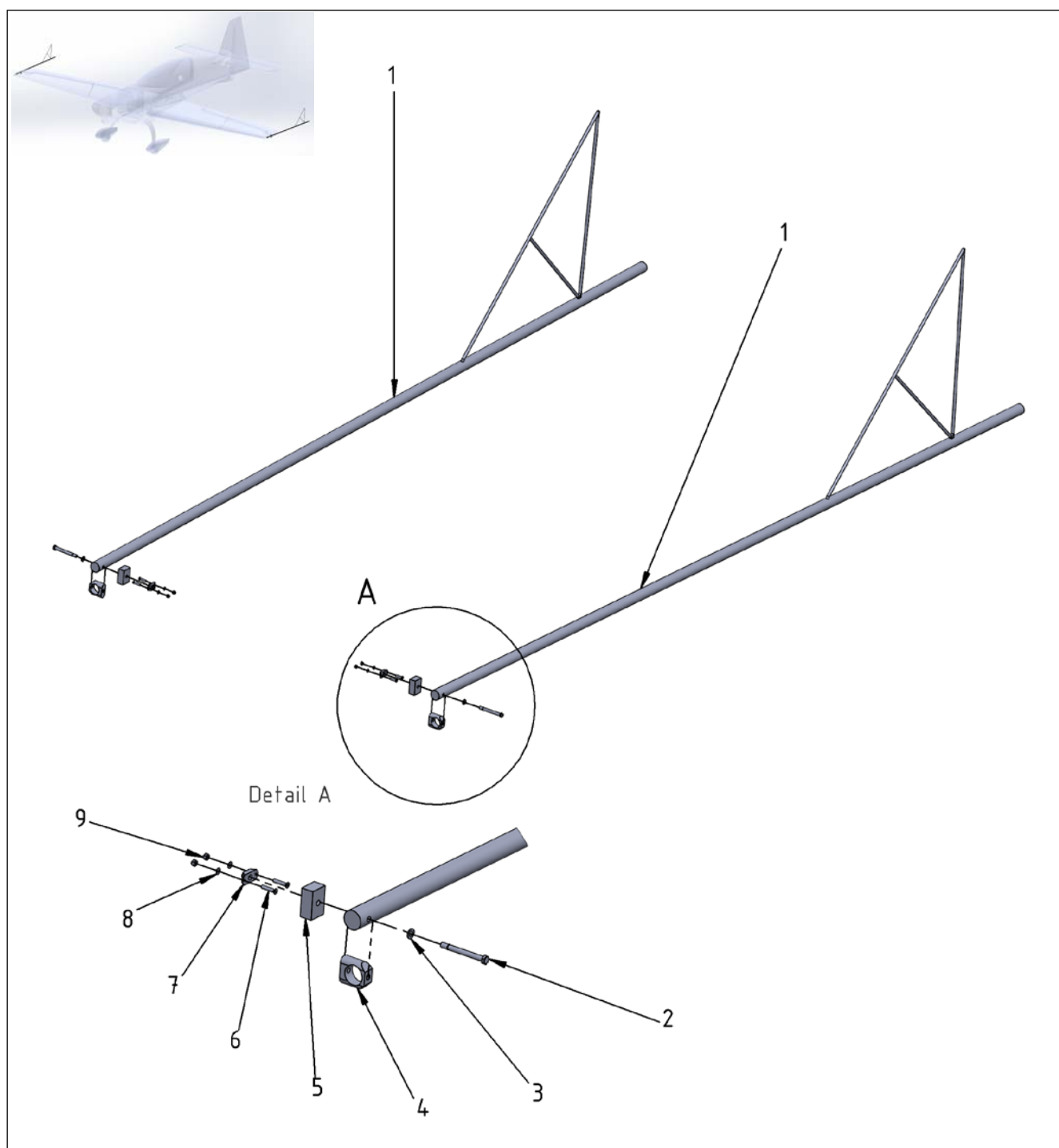


Figure 57-2 Sighting Device for Standard Ailerons

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
Wing Tie Down Ring				
1	81801.02	Wing Tie Down Ring	2	
<i>Attaching Parts</i>				
2	00035	Bolt LN9037-05024	2	
3	00936	Washer DIN9021-5,3	2	
4	ND4171	Washer DIN125-5,3	2	
5	00076	Nut LN9348-05	2	

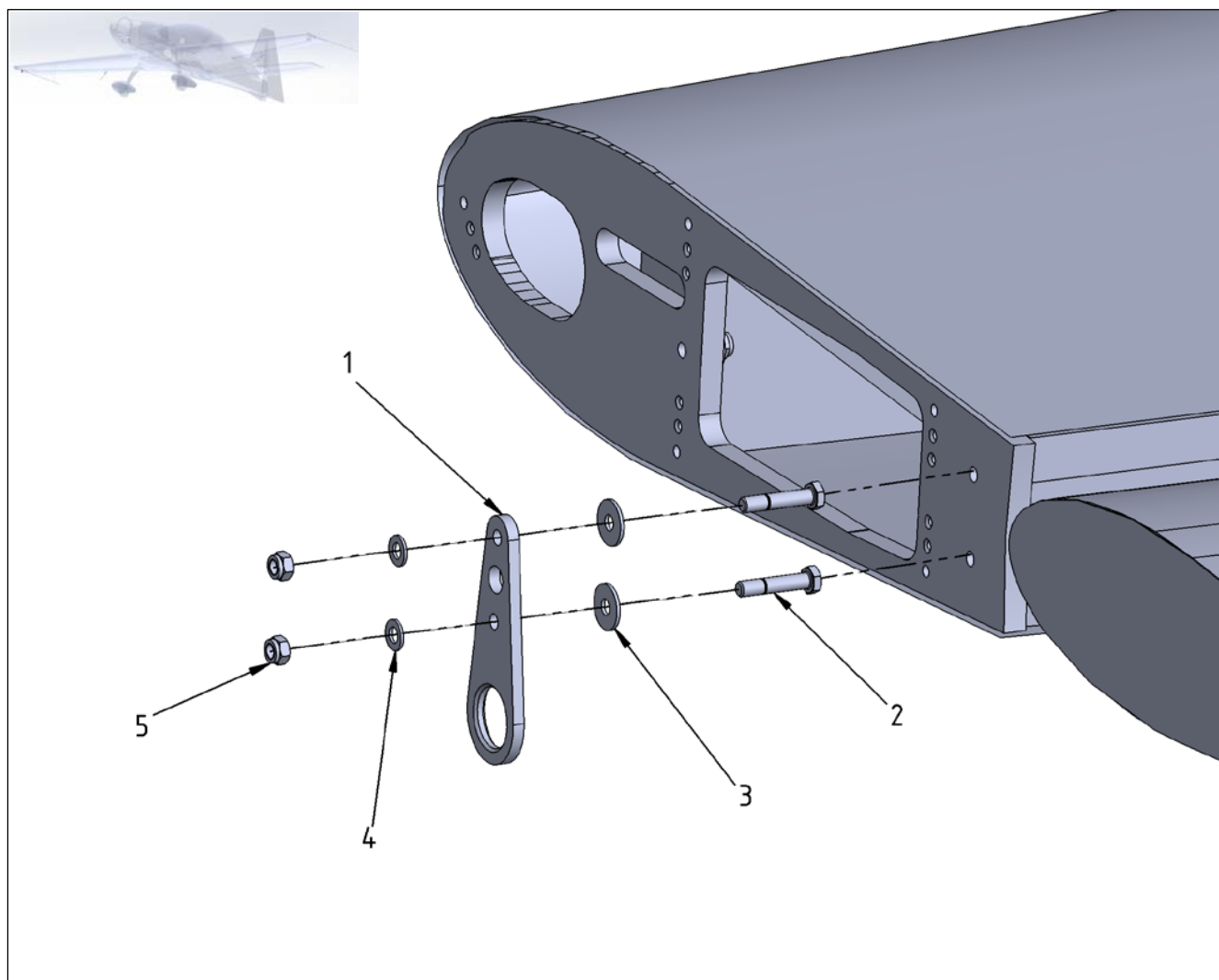


Figure 57-3 Wing Tie Down Ring

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61

Propeller

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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61-10

Propeller

3-Blade Propeller

	32285	Propeller (3 Blades) MTV-9B-C	1	
	31415	. Popeller Spinner 3-Blade P-810-2	1	
-	32941	Propeller Governor P-880-41 (2600 rpm)	1	
-	31509	Propeller Governor P-880-5 (2700 rpm)	a	
(P-880-5: Certificate of Airworthiness for aerial work only)				

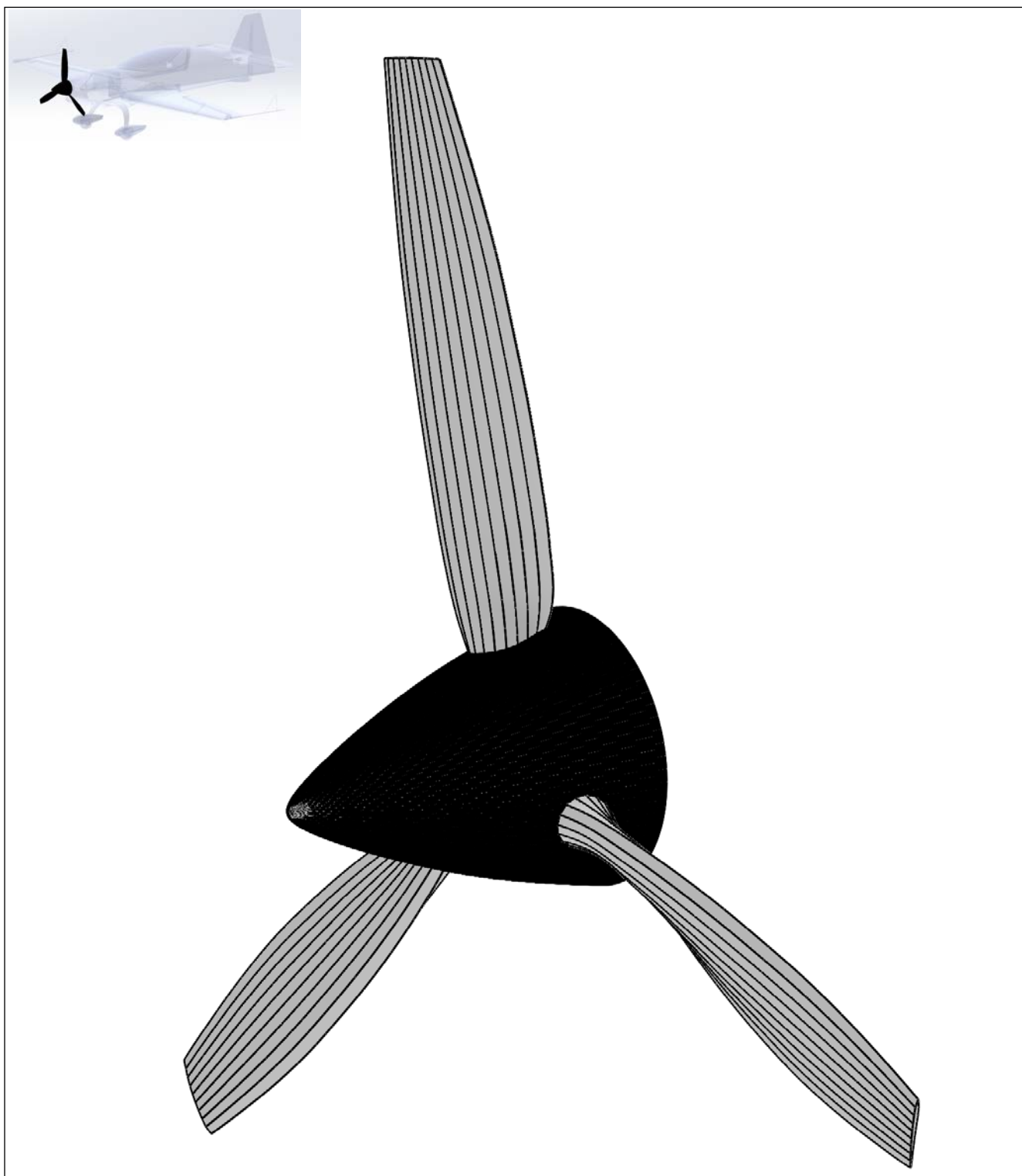


Figure 61-1 Propeller – 3-Blade Propeller

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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4-Blade Propeller (Optional)

	33970	Propeller (4-Blades) MTV-14-B-C/C190-30	1	
	31560	. Propeller Spinner 4-Blade P-967	1	
-	31509	Propeller Governor P-880-5 (2700 rpm)	1	

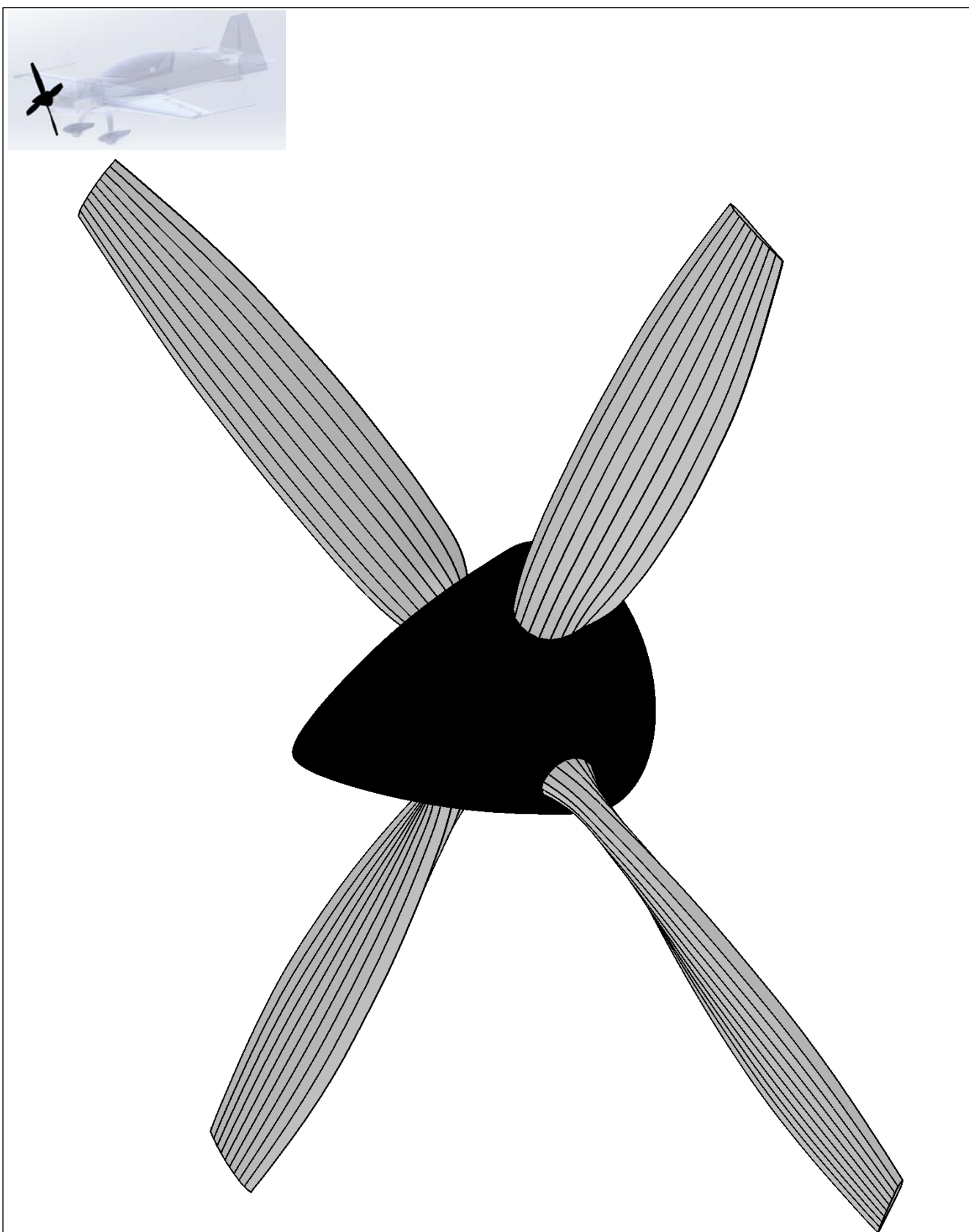


Figure 61-2 Propeller – 4-Blade Propeller

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
61-20		Controlling (Propeller)	
1	00199	Propeller Control Cable A-750-30-1080 9ft	1
22	00121	Bearing HF-3M	1
		<i>Attaching Parts</i>	
18	NA4099	Cotter Pin MS24665-132	1
19	00805	Castle Nut AN310-C3	1
20	00936	Washer DIN9021 5,3 x 15 x 1,2 mm	1
21	00416	Washer DIN125 5,3 mm	2
23	00592	Bolt AN3-10	1

2	35164	Firewall Fitting TTP-6100-260	1
5	61301.02	Bracket Propeller Control	1
		<i>Attaching Parts</i>	
3	00802	Nut MS21042-3	2
4	61301.12	Clamp Block	2
6	01702	Bolt AN3-7	2

10	00847	Clamp MS21919WDG12	1
		<i>Attaching Parts</i>	
7	01717	Bolt AN3-4	1
8	31583	Washer AN960-10	1
9	88	Nut MS20364-1032	1

11	61301.01-FB	Vernier Mounting Plate	1
12	61301.10-VM	Vernier Inner Mount	1
15	61501.02	Cover Plate Firewall	2
		<i>Attaching Parts</i>	
13	00075	Nut LN9348-04	2
14	01075	Washer DIN125-4,3 mm	4
16	61501.03	Firewall Bushing d9	1
17	01378	Bolt DIN933 M4x12	2

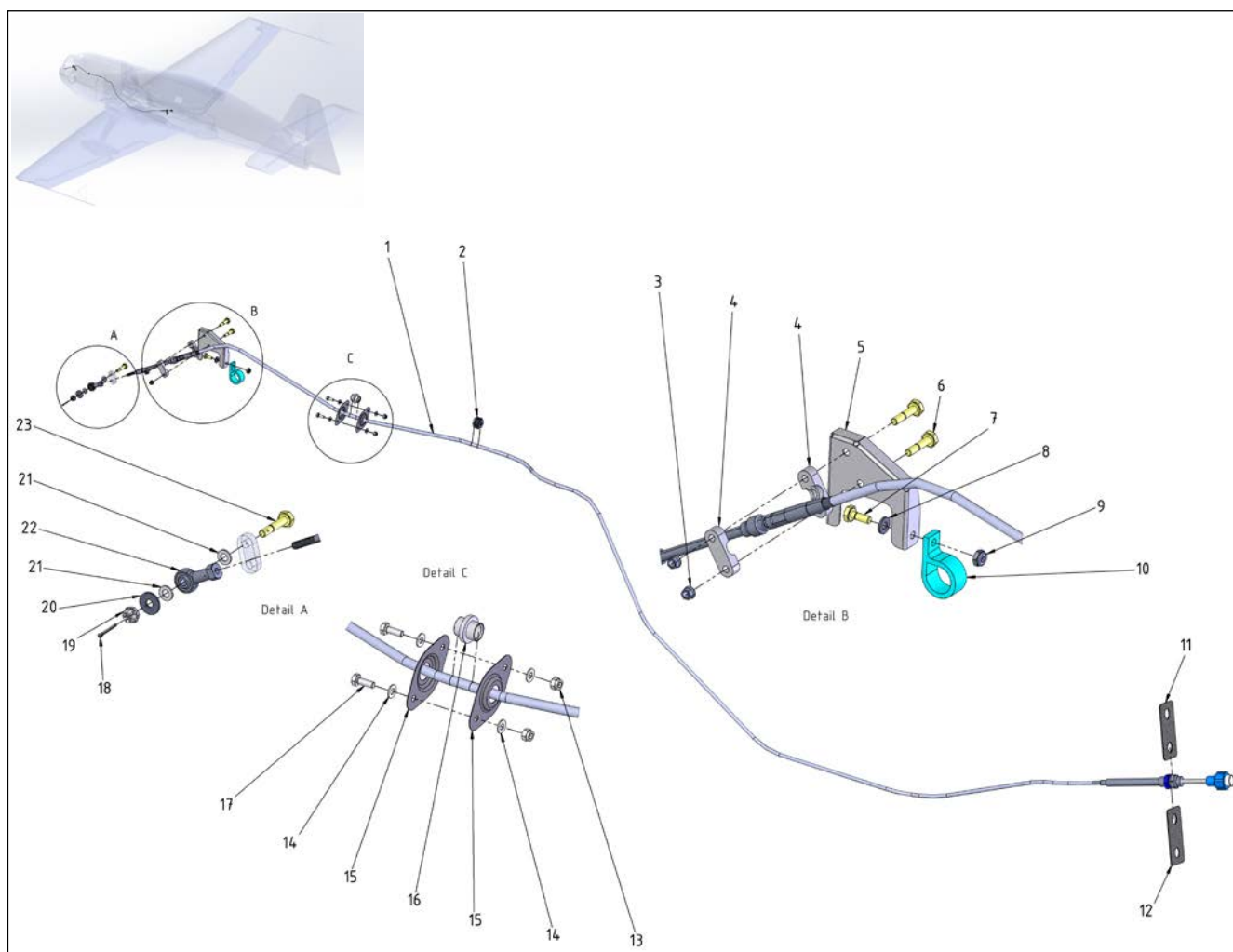


Figure 61-3 Propeller - Controlling

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71

Power Plant

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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71-10

Cowling

Refer to Figure 51-4

71-20

Engine Mount

1	61102.10-LK	Engine Mount <i>Attaching Parts</i>	1
2	700026	Bolt AN7-36A	4
3	35089	AN960-716	8
4	35797	Nut AN363-720	4

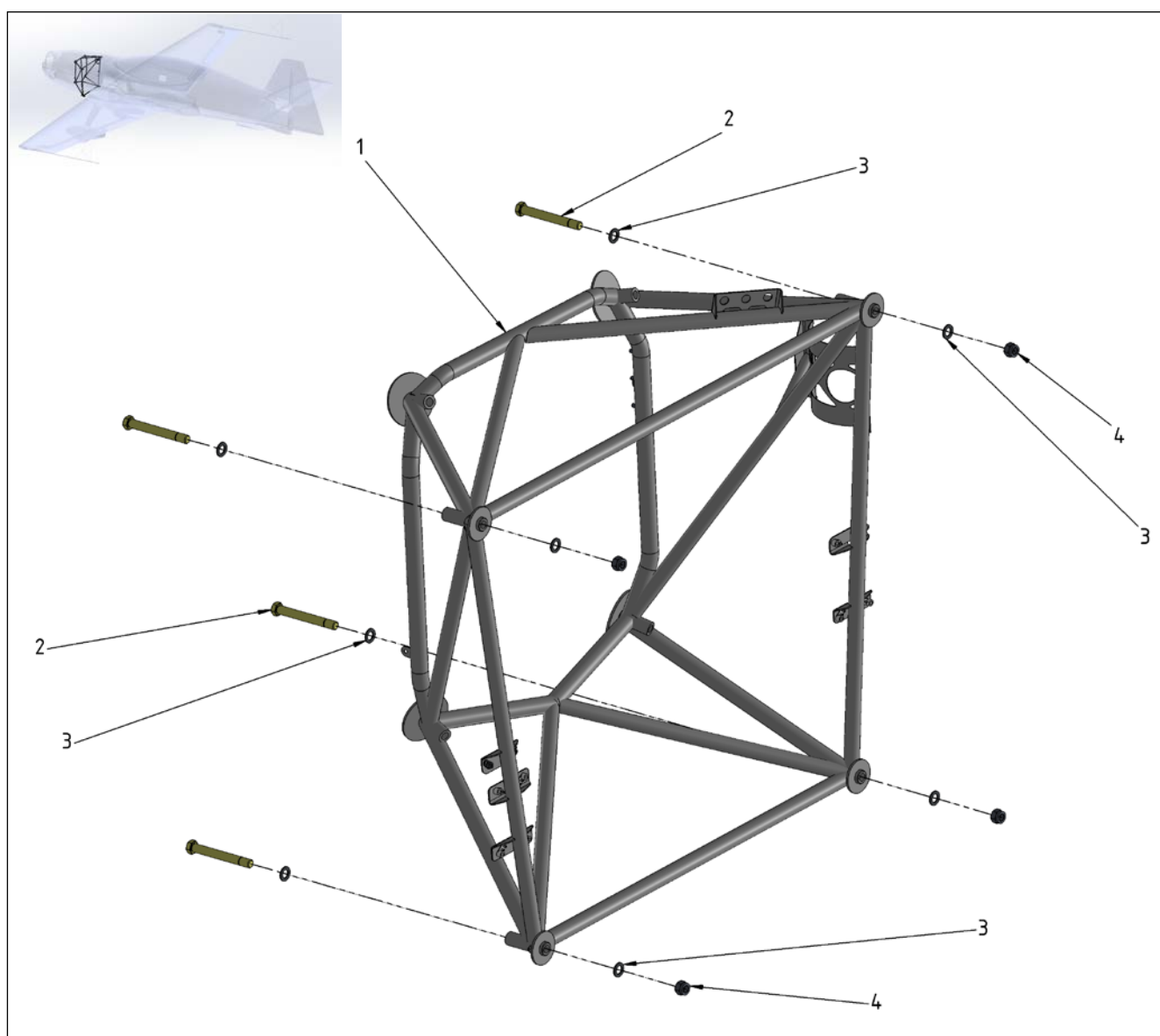


Figure 71-1 Engine Mount

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Engine Mount Brackets

3	21420.10	Engine Mount Bracket Top	2	
		<i>Attaching Parts</i>		
1	700009	Nut MS21042-5	3	
2	25092	Washer AN960-516L	6	
4	NA4035	Bolt AN5-25A	3	

5	21420.30	Engine Mount Bracket Bottom LH	1	
		<i>Attaching Parts</i>		
1	700009	Nut MS21042-5	3	
2	25092	Washer AN960-516L	6	
4	NA4035	Bolt AN5-25A	3	

6	21420.40	Engine Mount Bracket RH	1	
		<i>Attaching Parts</i>		
1	700009	Nut MS21042-5	3	
2	25092	Washer AN960-516L	6	
4	NA4035	Bolt AN5-25A	3	

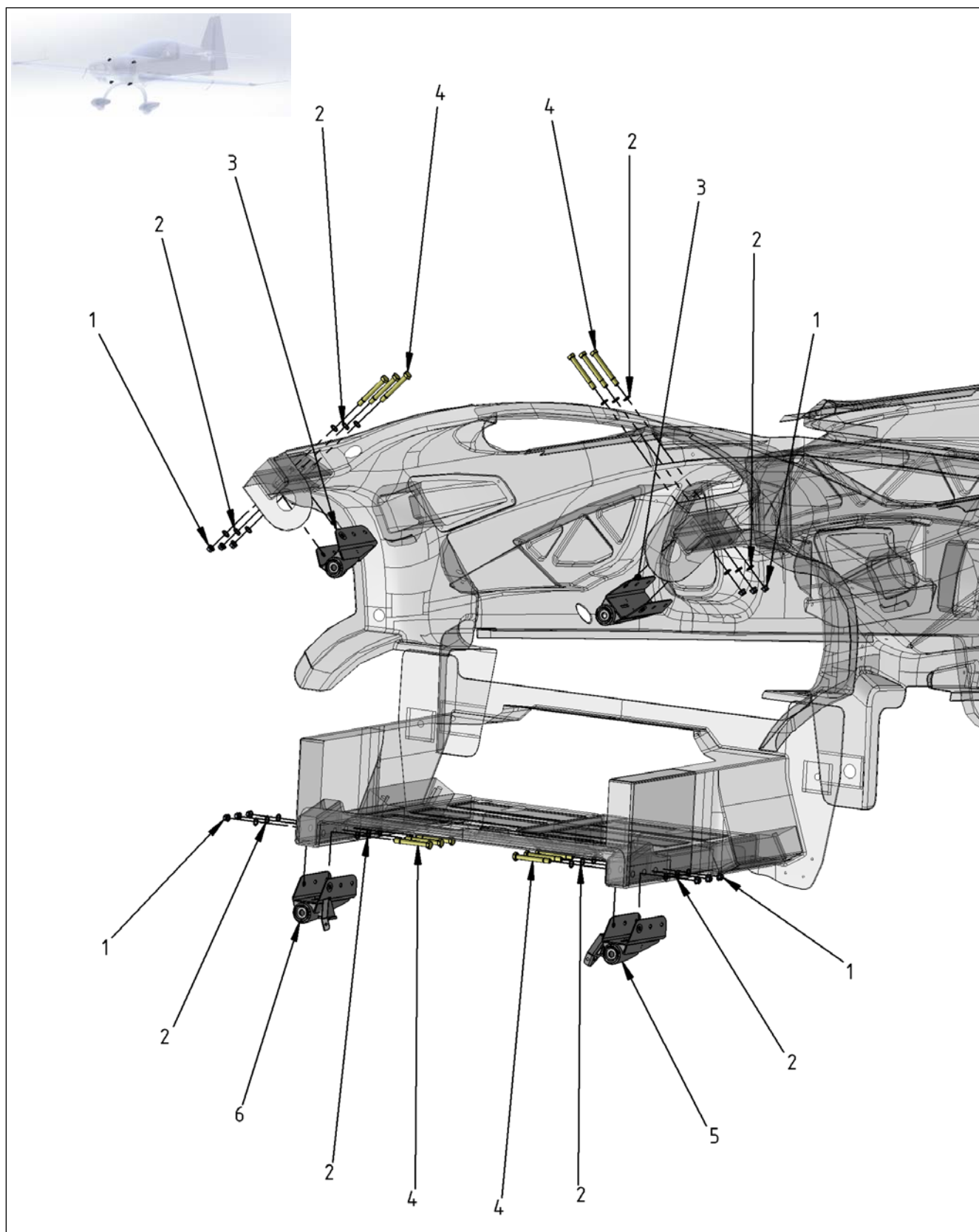


Figure 71-2 Engine Mount Brackets

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Shock Mounts

1	31093	Shock Mount	4	
-	01817	Shock Mount	a	
		<i>Attaching Parts</i>		
2	00768	Bolt AN7-50A	1	
3	35089	Washer AN960-716	1	
4	00804	Nut AN363C720	1	

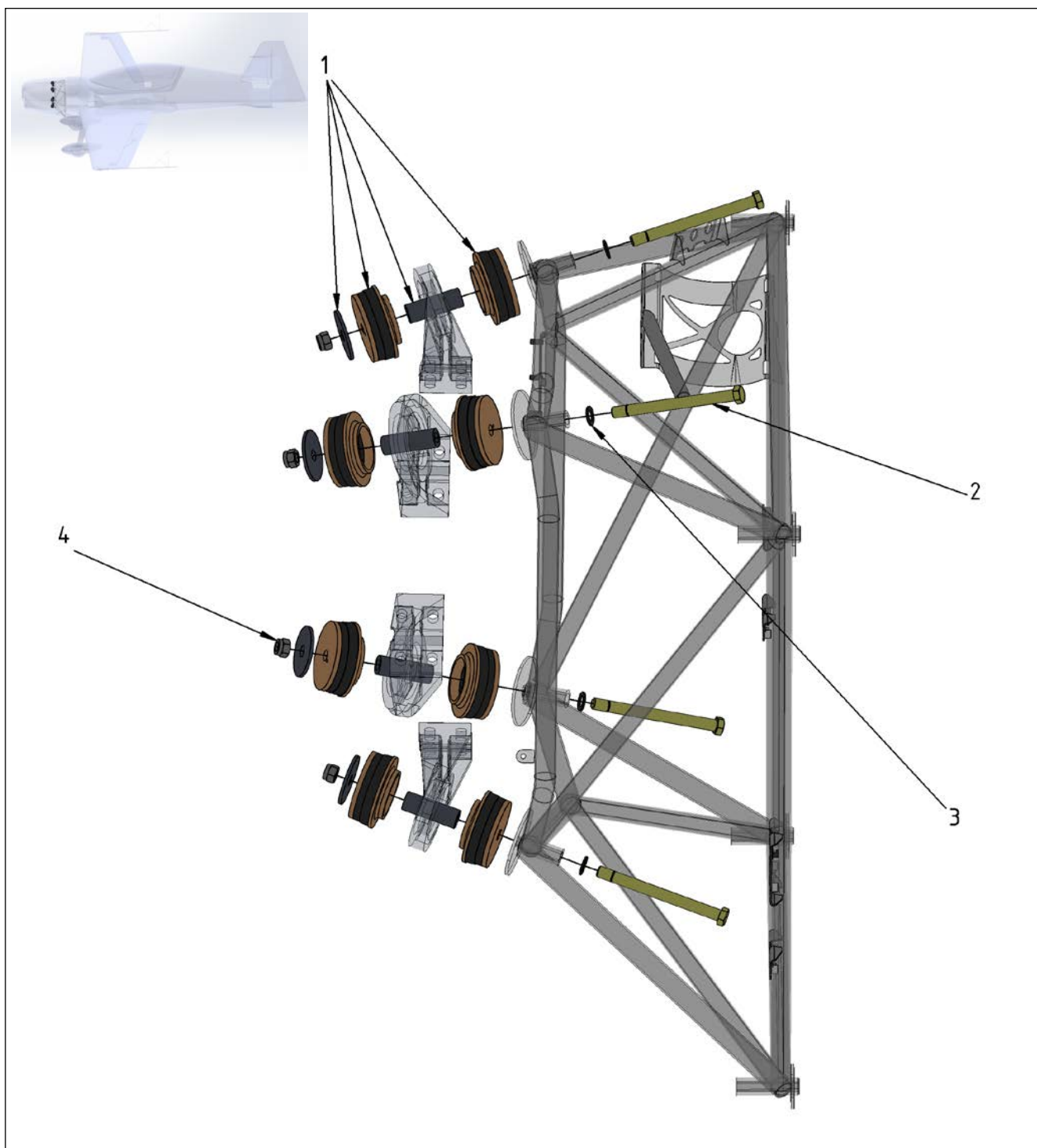


Figure 71-3 Shock Mounts

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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71-60

Air Baffles

Air Baffles FWD

1	61105.11-VM	Baffle Plate FWD LH with Gum Baffle (pre-assembled)	1	
4	00773	. Solid Rivet AN470AD-4-5 4/32" x 5/16" Uni	6	
7	31143	. Washer DIN9021 4,3 x 15 x 1,25 mm	7	
8	00483	. POP Blind Rivet 4,0 x 10,5 mm Uni	7	
11	31941	. POP Blind Rivet 3,2 x 8,0 mm Uni	6	
12	35083	. Washer AN960-416L	2	
13	25089	. MS20074-04-04	2	
14	61105.12	. Exhaust Inlet Vent Mesh	1	
15	00216	. Flange 2"	1	
16	61107.11	. Gum Baffle FWD LH	1	
17	61105.13	. Baffle Plate Reinforcement FWD LH	1	
18	61105.11	. Baffle Plate FWD LH	1	
2	61105.21-VM	Baffle Plate FWD RH with Gum Baffle (pre-assembled)	1	
3	61107.21	. Gum Baffle FWD RH	1	
4	00773	. Solid Rivet AN470AD-4-5 4/32" x 5/16" Uni	6	
5	61105.22	. Baffle Plate Reinforcement	1	
6	61105.21	. Baffle Plate FWD RH	1	
7	31143	. Washer DIN9021 4,3 x 15 x 1,25 mm	7	
8	00483	. POP Blind Rivet 4,0 x 10,5 mm Uni	7	
9	07032	. Bolt UNC 3/8" x 3/4"	2	
10	07062	. Washer MS35333-76	2	

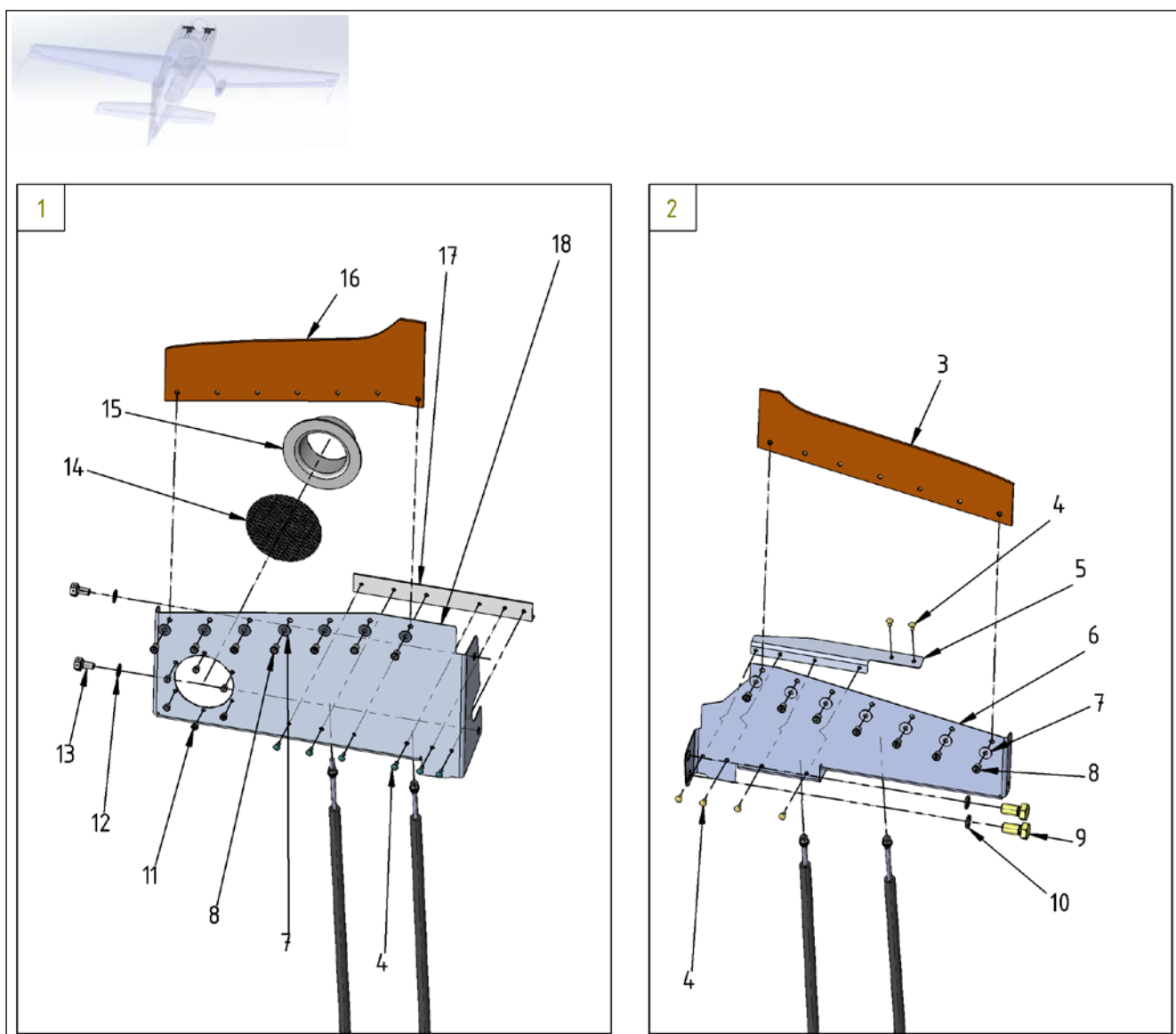


Figure 71-4 Air Baffles – Air Baffles FWD

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Air Baffles LH

1	61105.31-VM	Baffle Plate LH FWD with Gum Baffle (pre-assembled)	1	
2	01151	. Washer DIN9021-4,3 mm	20	
3	30970	. Nut MS21042-08	6	
4	83	. Washer AN960-8	6	
5	61105.33	. Baffle Plate LH AFT	1	
6	36195	. Bolt NAS 1352-08-8P	6	
7	61105.32	. Baffle Plate LH Middle	1	
8	01227	. Washer DIN9021-6,4	4	
9	00295	. Screw STD-1925	6	
10	61106.13	. Reinforcement Plate Baffle Middle	2	
11	00483	. POP Blind Rivet 4,0 x 10,5 mm Uni	20	
12	61105.31	. Baffle Plate LH FWD	1	
13	61105.34	. Reinforcement Plate Baffle LH FWD	1	
14	61107.31	. Gum Baffle LH	1	

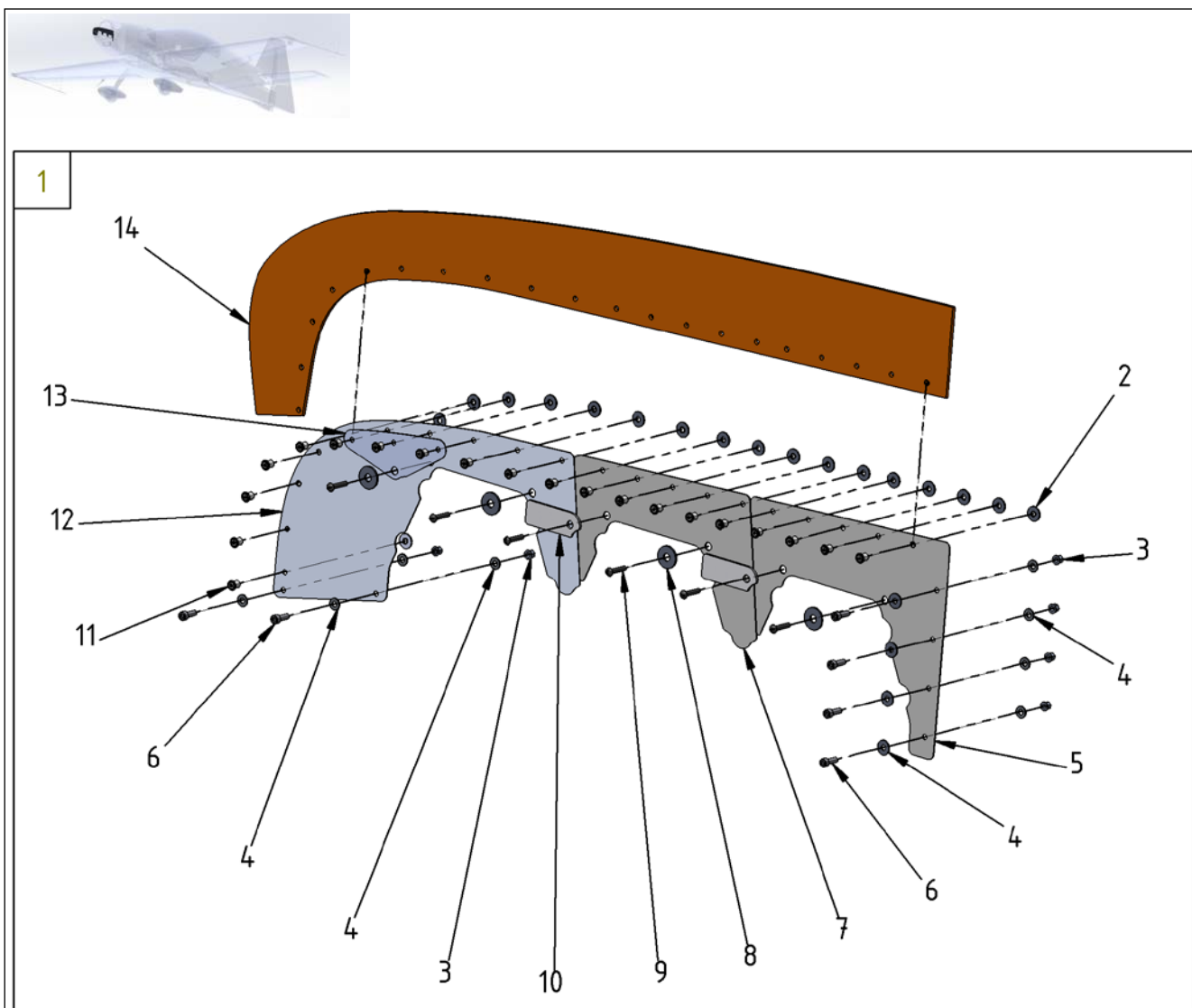


Figure 71-5 Air Baffles – Air Baffles LH

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Air Baffles RH

1	61105.41-VM	Baffle Plate RH FWD with Gum Baffle (pre-assembled)	1	
3	61107.41	. Gum Baffle RH FWD	1	
4	61105.41	. Baffle Plate RH FWD	1	
5	61105.43	. Reinforcement Plate Baffle RH FWD	1	
6	00483	. POP Blind Rivet 4,0 x 10,5 mm Uni	12	
7	36195	. Bolt NAS 1352-08-8P	2	
8	83	. Washer AN960-8	4	
9	30970	. Nut MS21042-08	2	
10	00295	. Screw STD-1925	2	
11	01227	. Washer DIN9021-6,4 mm	2	
12	61106.13	. Reinforcement Plate Baffle Middle	2	
13	61105.42	. Baffle Plate RH Middle	1	
15	31143	. Washer DIN9021 4,3 x 15x 1,25 mm	12	
2	61105.61-VM	Baffle Plate Plate RH AFT with Gum Baffle (pre-assembled)	1	
6	00483	. POP Blind Rivet 4,0 x 10,5 mm Uni	6	
7	36195	. Bolt NAS 1352-08-8P	5	
8	83	. Washer AN960-8	10	
9	30970	. Nut MS21042-08	5	
10	00295	. Screw STD-1925	2	
11	01227	. Washer DIN9021-6,4 mm	2	
14	61105.61	. Baffle Plate RH AFT	1	
15	31143	. Washer DIN9021 4,3 x 15 x 1,25 mm	6	
16	61107.61	. Baffle Gum Cylinderhead AFT RH	1	

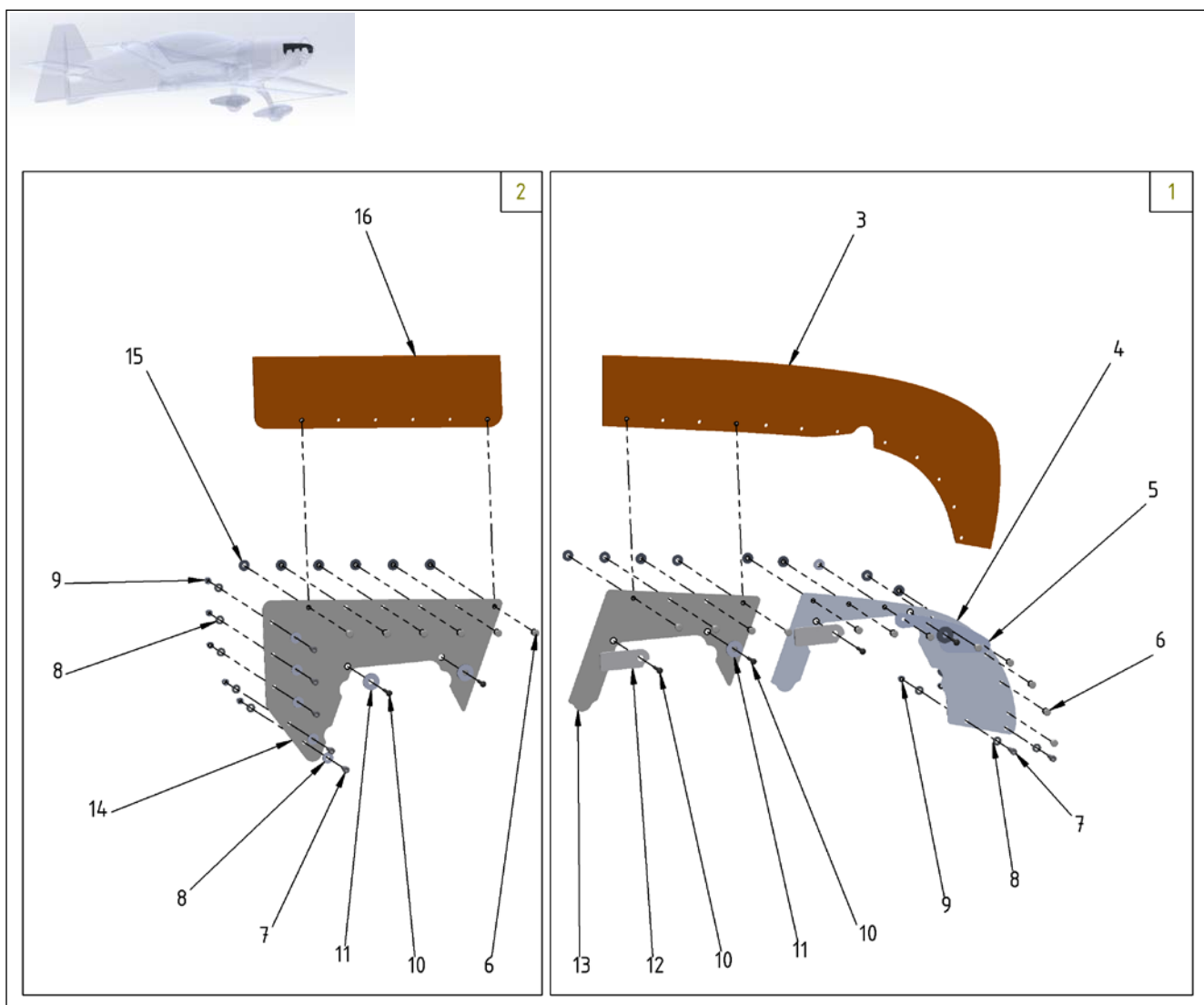


Figure 71-6 Air Baffles – Air Baffles RH

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Air Baffles AFT LH & MID

1	61105.71-VM	Baffle Plate AFT LH with Gum Baffle (pre-assembled)	1	
4	36195	. Bolt NAS 1352-08-8P	4	
5	83	. Washer AN960-8	8	
7	31143	. Washer DIN9021 4,0 x 10,5 x 1,25 mm	8	
8	00483	. POP Blind Rivet 4,0 x 10,5 mm Uni	8	
10	30970	. Nut MS21042-08	6	
12	01696	. Solid Rivet AN470AD-5-5 5/32" x 5/16" Uni	2	
13	61106.16	. Baffle Angle Bracket AFT LH	1	
14	61106.15	. Bracing Bracket	1	
15	00202	. Bolt AN3-3A	1	
16	00936	. Washer DIN9021 5,3 x 15 x 1,2 mm	1	
17	61105.71	. Baffle Plate AFT LH	1	
18	61107.71	. Gum Baffle AFT LH A	1	
19	61107.72	. Gum Baffle AFT LH B	1	
2	61105.51-VM	Baffle Plate AFT Middle with Gum Baffle (pre-assembled)	1	
3	61107.51	. Gum Baffle AFT Middle	1	
4	36195	. Bolt NAS 1352-08-8P	6	
5	83	. Washer AN960-8	12	
6	61106.11	. Baffle Bracket AFT TOP	1	
7	31143	. Washer DIN9021 4,3 x 15 x 1,25 mm	1	
8	00483	. POP Blind Rivet 4,0 x 10,5 mm Uni	5	
9	61106.12	. Reinforcement AFT	1	
10	30970	. Nut MS21042-08	6	
11	61105.51	. Baffle Plate AFT Middle	1	

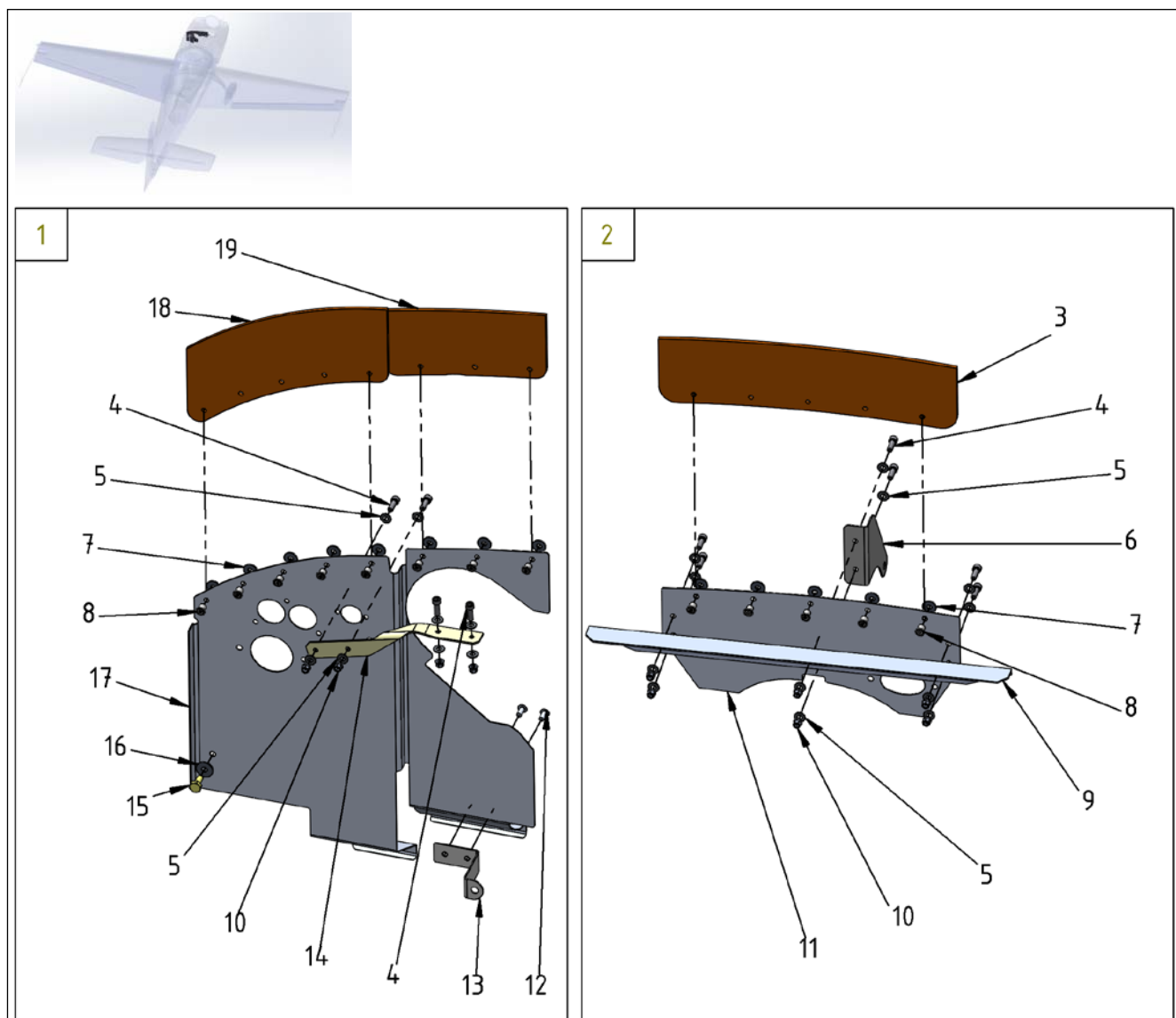


Figure 71-7 Air Baffles – Air Baffles AFT LH & MID

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Air Baffles AFT RH

1	61105.81-VM	Baffle Plate AFT RH with Gum Baffle (pre-assembled)	1	
2	61107.81	. Gum Baffle AFT RH	1	
3	01688	. Solid Rivet AN470AD4-4 4/32" x 4/16" Uni	2	
4	31143	. Washer DIN9021 4,3 x 15 x 1,25 mm	21	
5	32046	. POP Blind Rivet 4,0 x 8,5 mm Uni	4	
6	00483	. POP Blind Rivet 4,0 x 10,5 mm Uni	17	
7	00936	. Washer DIN9021 5,3 x 15 x 1,2 mm	1	
8	00202	. Bolt AN3-3A	1	
9	61107.85	. Cooler Gum Baffle RH	1	
10	61107.84	. Cooler Gum Baffle BTM	1	
11	25089	. Bolt MS20074-04-04	1	
12	01227	. Washer DIN9021 6,4 x 18 x 1,6 mm	1	
13	61106.14	. Baffle Angle Bracket AFT RH	1	
14	61107.83	. Cooler Gum Baffle LH	1	
15	61107.82	. Cooler Gum Baffle TOP	1	
16	61105.82	. Stiffening Bracket	1	
17	61105.81	. Baffle Plate AFT RH	1	

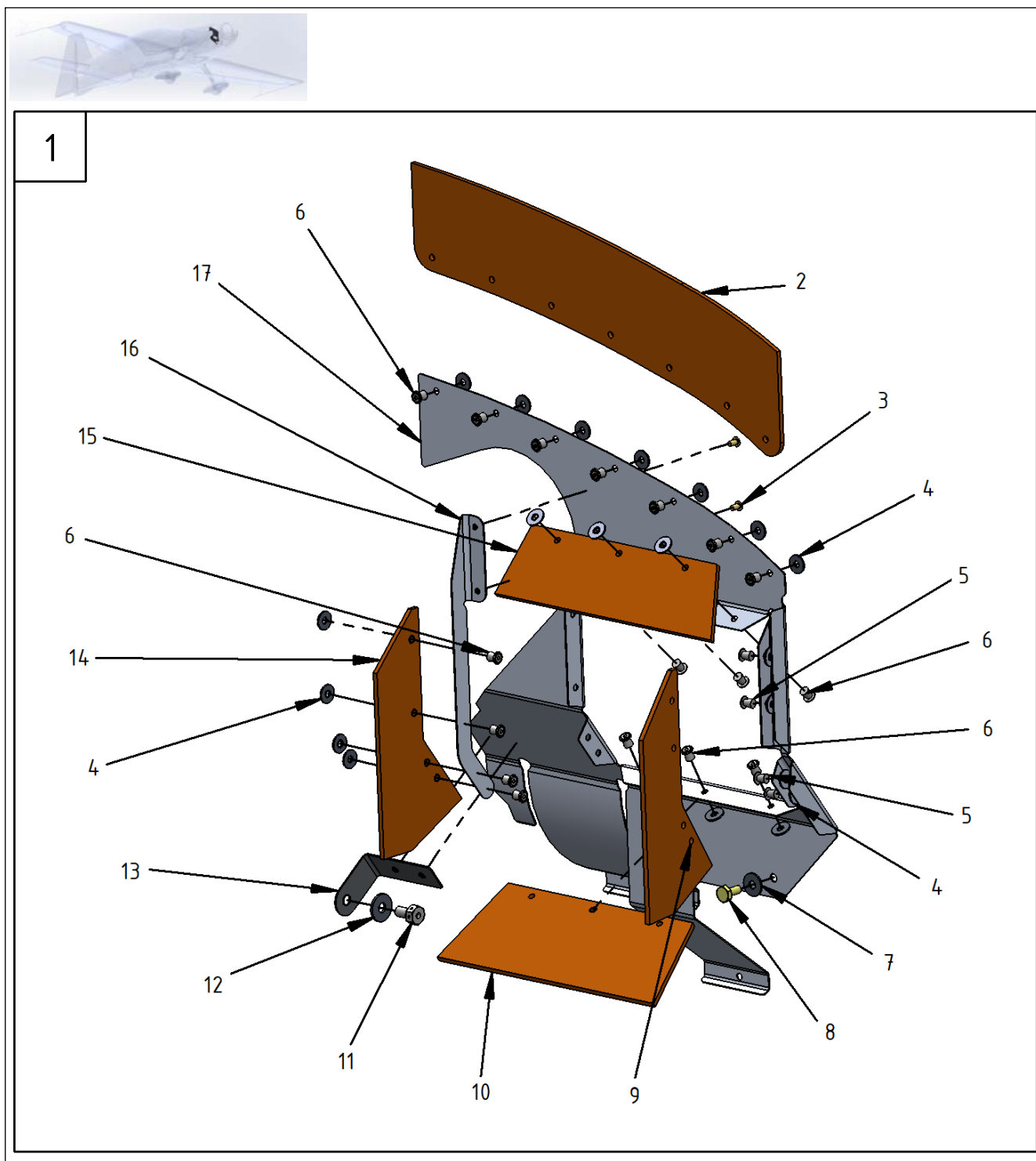


Figure 71-8 Air Baffles – Air Baffles AFT RH

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Air Baffle Rods

1	61106.17	Threaded Bar Long <i>Attaching Parts</i>	1	
4	00075	Nut LN9348-04	2	
5	ND4170	Washer DIN125 4,3	4	
6	01384	Nut DIN934 8 M4	2	
7	61106.21	Baffle Rod Tube ***	1	
2	61106.18	Threaded Bar Medium <i>Attaching Parts</i>	2	
4	00075	Nut LN9348-04	2	
5	ND4170	Washer DIN125 4,3	4	
6	01384	Nut DIN934 8 M4	2	
7	61106.21	Baffle Rod Tube ***	1	
3	61106.19	Threaded Bar Short <i>Attaching Parts</i>	1	
4	00075	Nut LN9348-04	2	
5	ND4170	Washer DIN125 4,3	4	
6	01384	Nut DIN934 8 M4	2	
7	61106.21	Baffle Rod Tube ***	1	

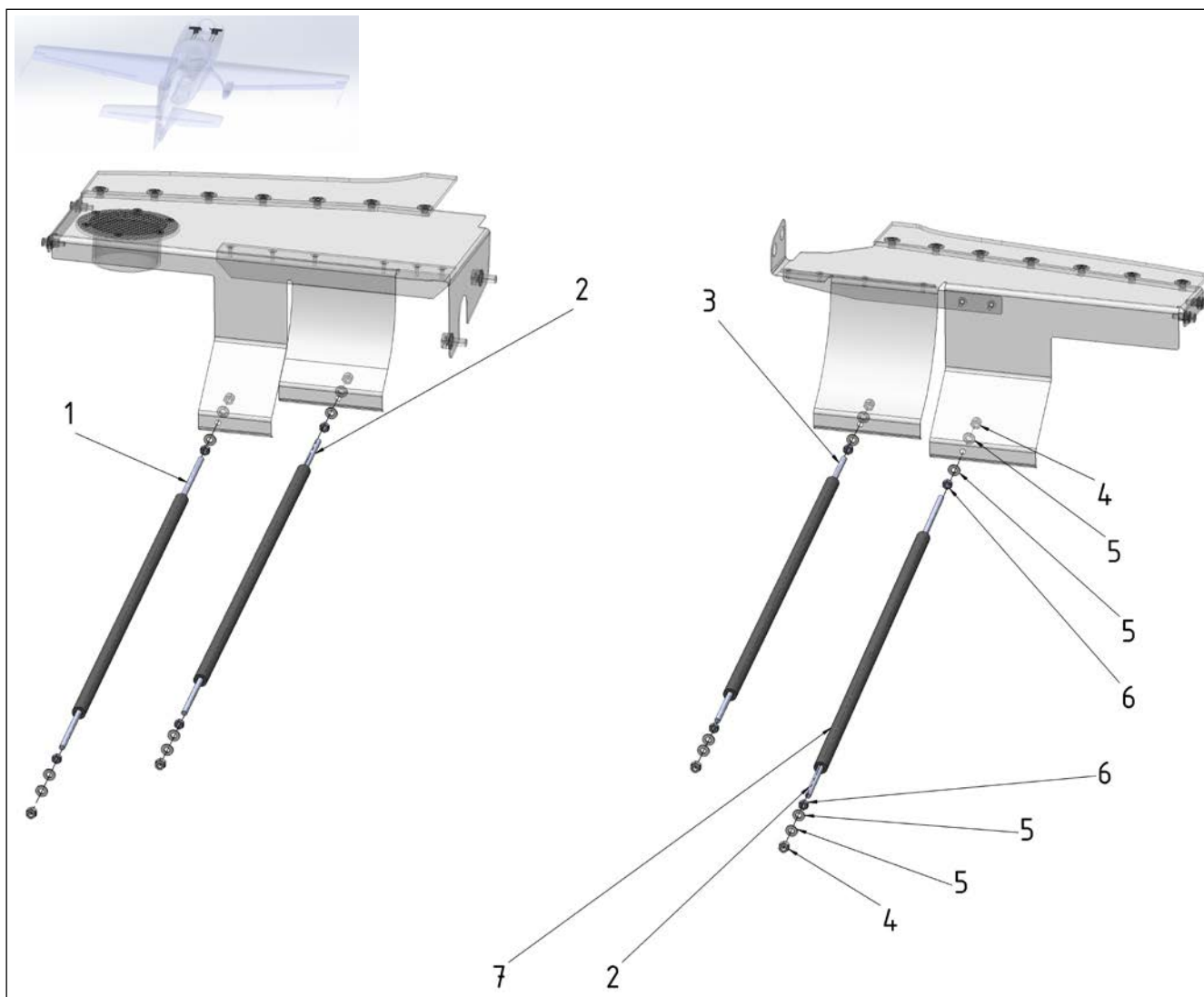


Figure 71-9 Air Baffles – Air Baffle Rods

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72 Engine

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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72-10

Engine

	32712	Lycoming Engine AEIO-580-B1A	1	
	Lycoming P/N: 10427			
-	SM1001	. Spark Plug	12	
-	32860	. Magneto 6393 (LH)	1	
-	02337	. Magneto 6350 (RH)	1	
-	33509	. Ignition Harness (LH)	1	
-	33510	. Ignition Harness (RH)	1	

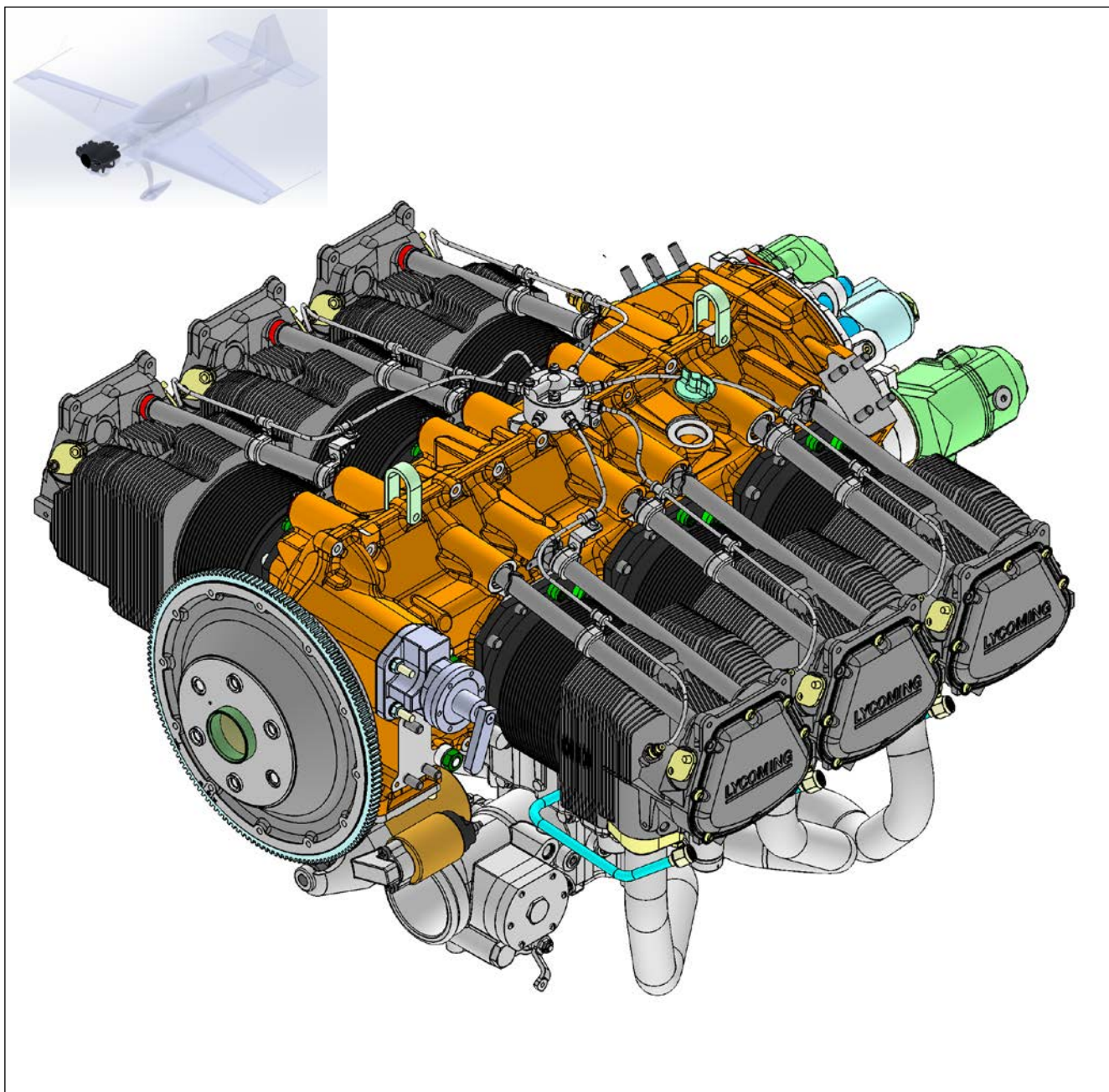


Figure 72-1 Engine

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
		Slick Start	
1	32598	Slick Start	1
		<i>Attaching Parts</i>	
2	149	Washer AN960-10L	2
3	00202	Bolt AN3-3A	2

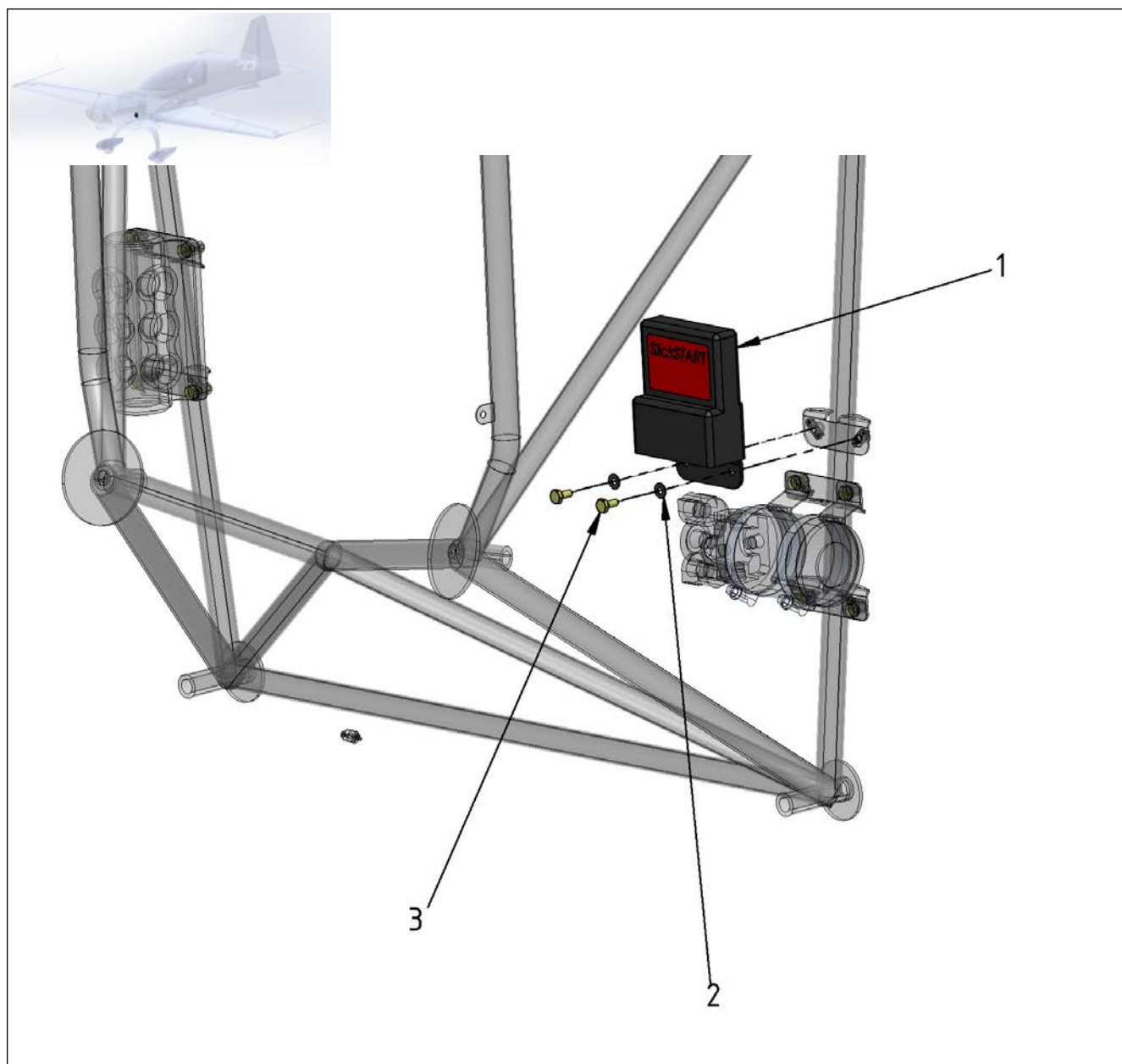


Figure 72-2 Slick Start

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73 Engine Fuel and Control

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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73-20

Controlling

Throttle Control Cable

1	35170	Throttle Control Cable A-920-0840 7ft	1	
23	00121	Bearing HF-3M	1	
<i>Attaching Parts</i>				
6	00416	Washer DIN125-5,3 mm	2	
20	NA4099	Cotter Pin MS24665-132	1	
21	00805	Castle Nut AN310C3	1	
22	00936	Washer DIN9021 5,3 x 15 x 1,2 mm	1	
24	01702	Bolt AN3-7	1	

17	00116	3/4 X 1 Fairlead Assembly	1	
18	01567	Fire Sleeve 2650-6	1	
3	61303.03	Bracket Throttle Control	1	
<i>Attaching Parts</i>				
2	61301.12	Clamp Blocks Control Brackets	2	
4	25089	Bolt MS20074-04-04	2	
5	00802	Nut MS21042-3	2	
19	01703	Bolt AN3-7A	2	

9	01554	Clamp MS21919WDG9	1	
<i>Attaching Parts</i>				
5	00802	Nut MS21042-3	2	
6	00416	Washer DIN125-5,3 mm	4	
7	00589	Bolt AN3-4A	2	
8	33566	Clamp 90° Twist Lyco 72815	1	

14	61303.01	Bracket Bowden Cables	1	
<i>Attaching Parts</i>				
7	00589	Bolt AN3-4A	5	
10	NA4126	Washer AN960C10L	7	
11	88	Nut MS21083N3	2	
12	In 35170	Cable Clamp A314	1	
13	In 35170	Cable Clamp Sheet	1	
15	00584	Nutplate MS21069-L3	3	
16	07037	Nutplate Rivet 3/32" x 2/16" Countersunk 100°	6	

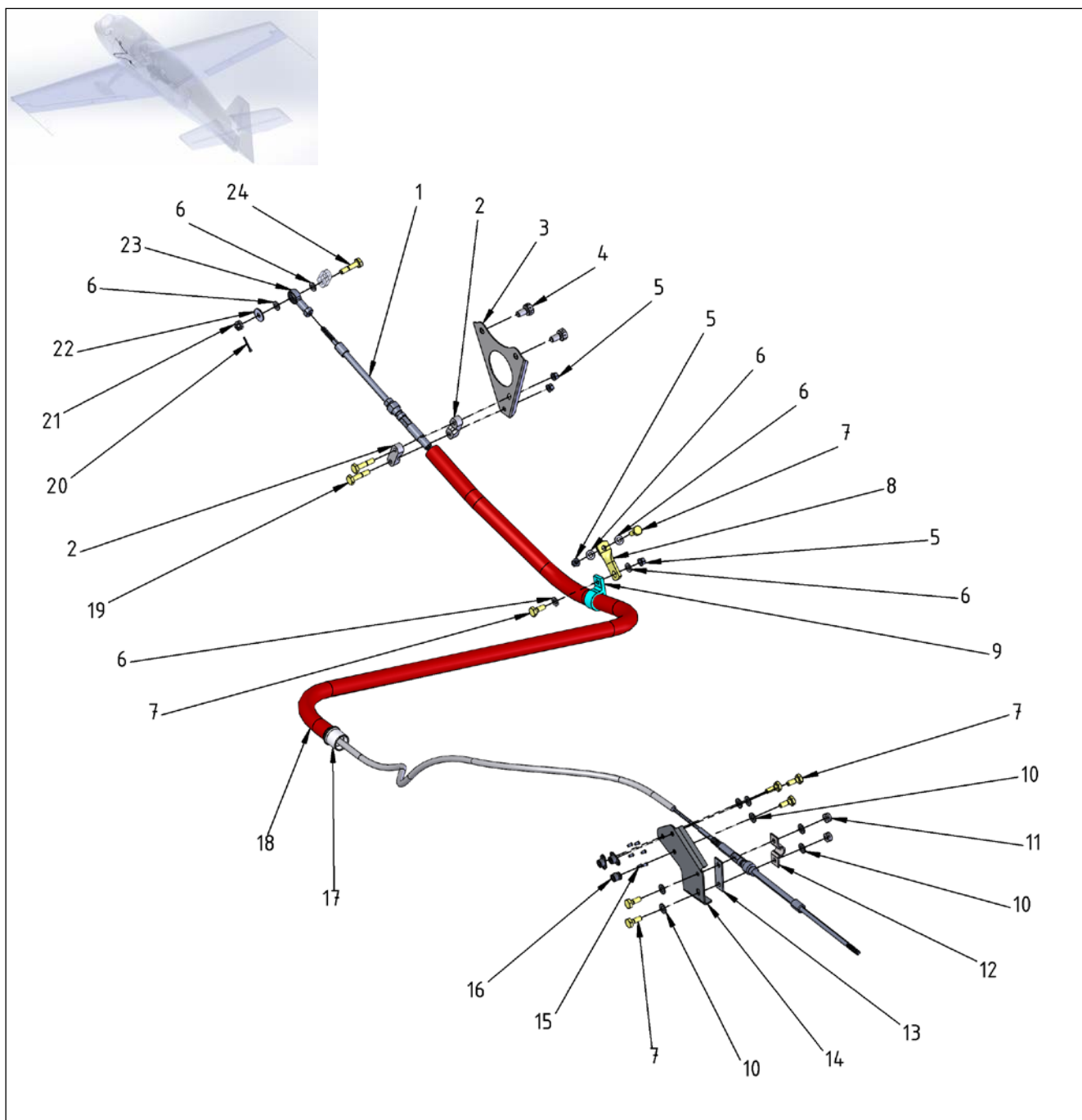


Figure 73-1 Controlling – Throttle Control Cable

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Throttle Control Lever

Control Lever FWD

3	61303.60	Throttle Handle (covered)	1	
2	61303.05-VM	Throttle Insert (clean)	1	
		<i>Attaching Parts</i>		
1	35347	Screw FCMPS0204	2	

-	61303.62	. Throttle Leather Cover	1	
4	61303.30	Throttle FWD	1	
15	02027	Bolt AN4-3	1	
		<i>Attaching Parts</i>		
11	35795	Bolt AN5-14A	1	
12	25092	Washer AN960-516L	1	
13	70043	Nut MS21083N5	1	

10	00121	Bearing HF-3M	1	
9	02878	Nut AN315-3	1	
		<i>Attaching Parts</i>		
5	149	Washer AN960-10L	1	
6	00936	Washer DIN9021 5,3 x 15 x 1,2 mm	1	
7	02876	Bolt AN3-13A	1	
8	31583	Washer AN960-10L	2	
16	88	Nut MS21083N3	1	
17	35087	Washer AN970-3	1	

14	61303.10	Throttle Console FWD	1	

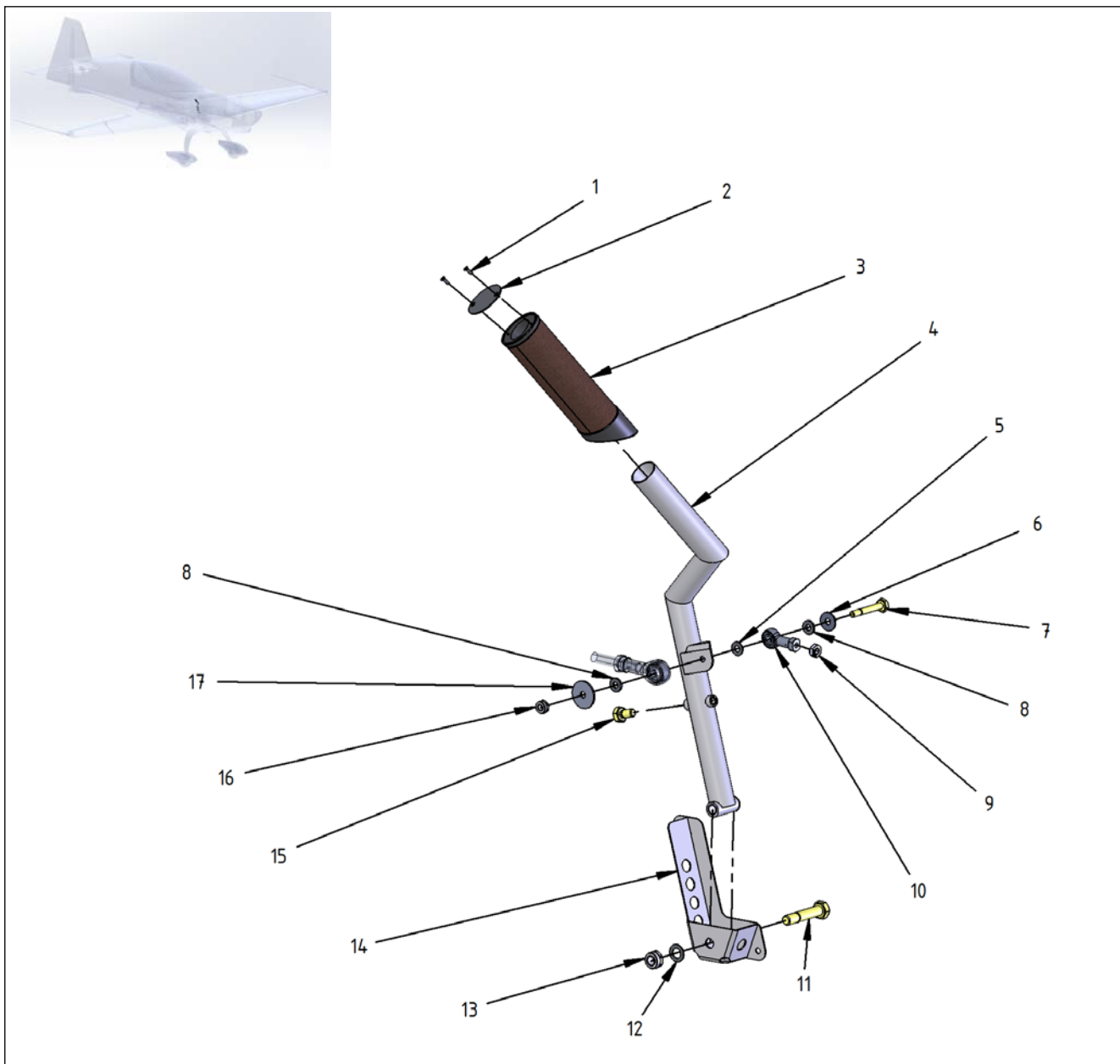


Figure 73-2 Throttle Control Lever – Control Lever FWD

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Throttle Control AFT with Coupling

17	61303.60	Throttle Handle (covered)	1	
2	01432	Smoke Switch R13-112A-02	1	
-	61303.05-VM	Throttle Insert (clean)	1	
3	61303.06-VM	Throttle Insert (with Smoke)	a	
<i>Attaching Parts</i>				
1	35347	Screw FCMPS0204	2	

-	61303.62	. Throttle Leather Cover	1	
4	61303.40	Throttle AFT	1	
<i>Attaching Parts</i>				
11	35795	Bolt AN5-14A	1	
13	25092	Washer AN960-516L	1	
14	700043	Nut MS21083N5	1	

12	61303.20	Throttle Console AFT	1	
9	61303.50	Coupling Rod Assembly	1	
10	35185	Bearing M81935/2-03	2	
8	35129	Nut AN316-5	2	
<i>Attaching Parts</i>				
5	31583	Washer AN960-10L	2	
6	88	Nut MS21083N3	1	
7	02027	Bolt AN4-3	1	
15	35087	Washer AN970-3	1	
16	02252	Bolt AN3-10A	1	

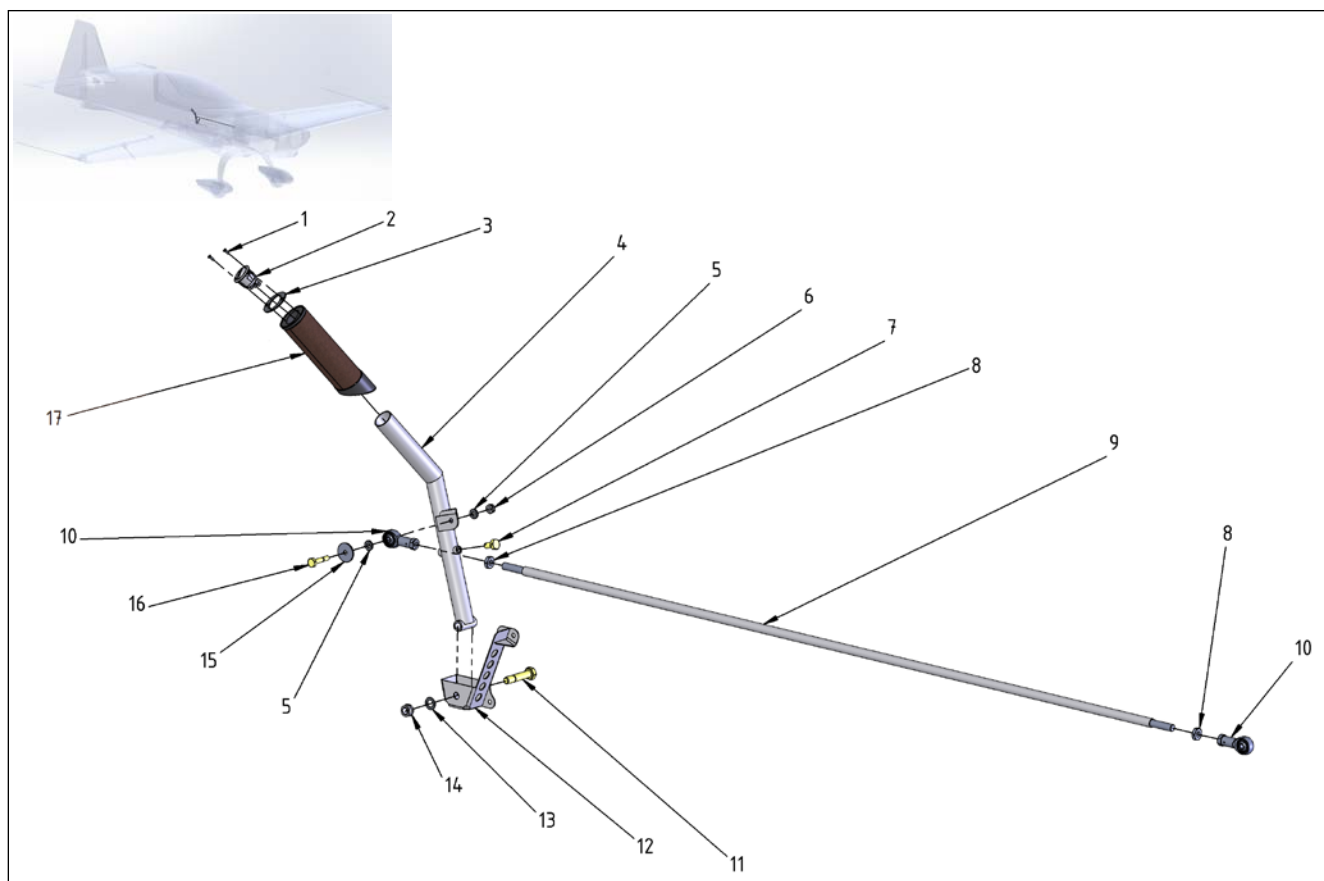


Figure 73-3 Throttle Control AFT with Coupling

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
Mixture Control				
1	00112	Mixture Control Cable (red) A-750-20-1080 9ft	1	
10	00121	Bearing HF-3M <i>Attaching Parts</i>	1	
8	01702	Bolt AN3-7	1	
9	00416	Washer DIN125 5,3 mm	2	
11	00936	Washer DIN9021 5,3 x 15 x 1,2 mm	1	
13	NA4099	Cotter Pin MS24665-132	1	
12	00805	Castle Nut AN310C3 ***	1	
6	01567	Fire Sleeve Mixture 2650-6	1	
7	00116	3/4 X 1 Fairlead Assembly	1	
3	61302.01	Bracket Mixture Control <i>Attaching Parts</i>	1	
2	25089	Bolt MS20073-04-04	2	
4	00802	Nut MS21042-3	2	
5	61301.12	Clamp Blocks Control Brackets	2	
14	01703	Bolt AN3-7A ***	2	

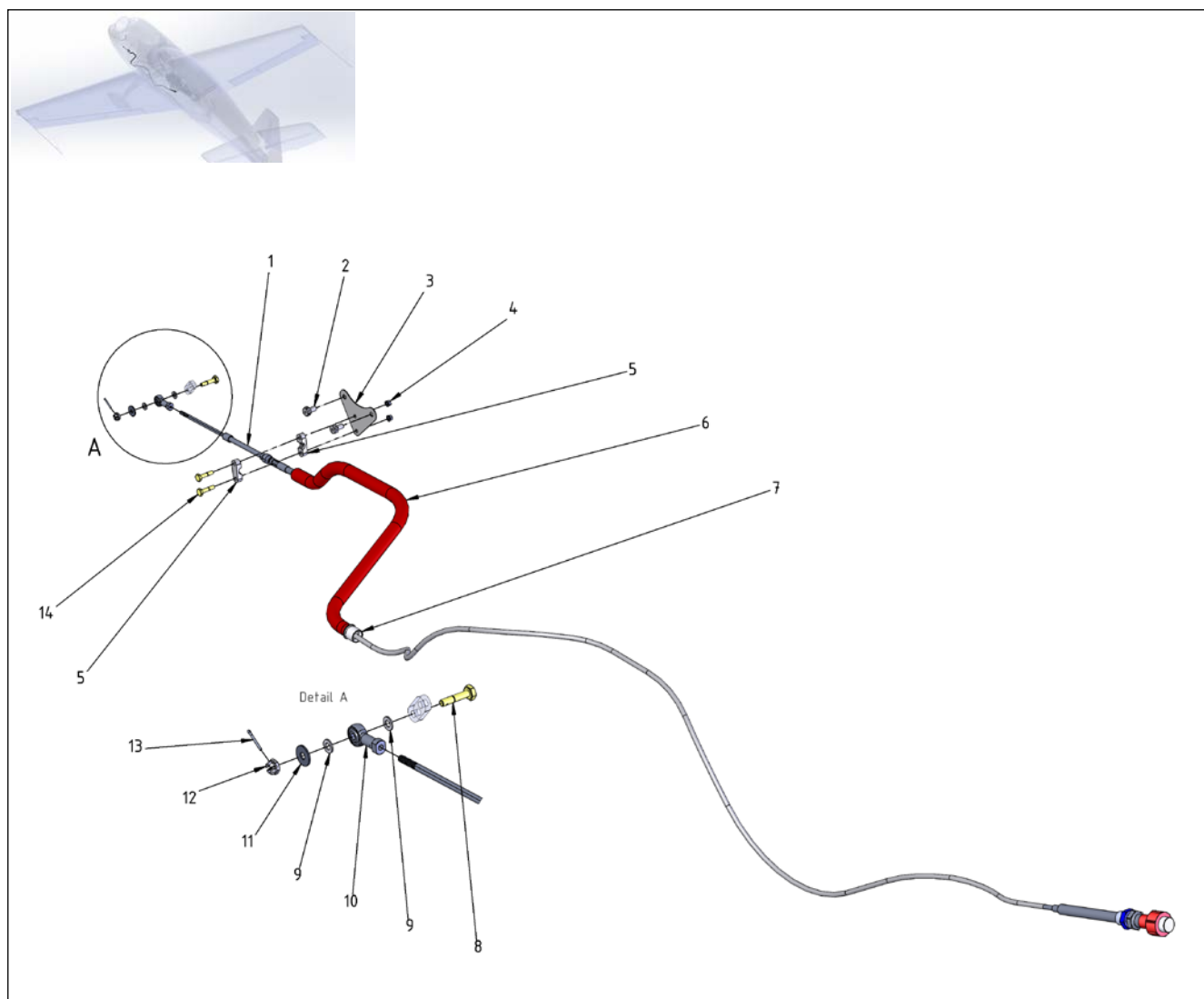


Figure 73-4 Mixture Control

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77 Engine Indicating

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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77-40		Integrated Engine Instrument Systems		
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		Garmin GEA-24B EIS		
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1	36502	Garmin GEA 24B EIS	1	
4	71552.20	Grounding Plate Front RH	1	
		<i>Attaching Parts</i>		
2	31583	Washer AN960-10	4	
3	00202	Bolt AN3-3A	4	

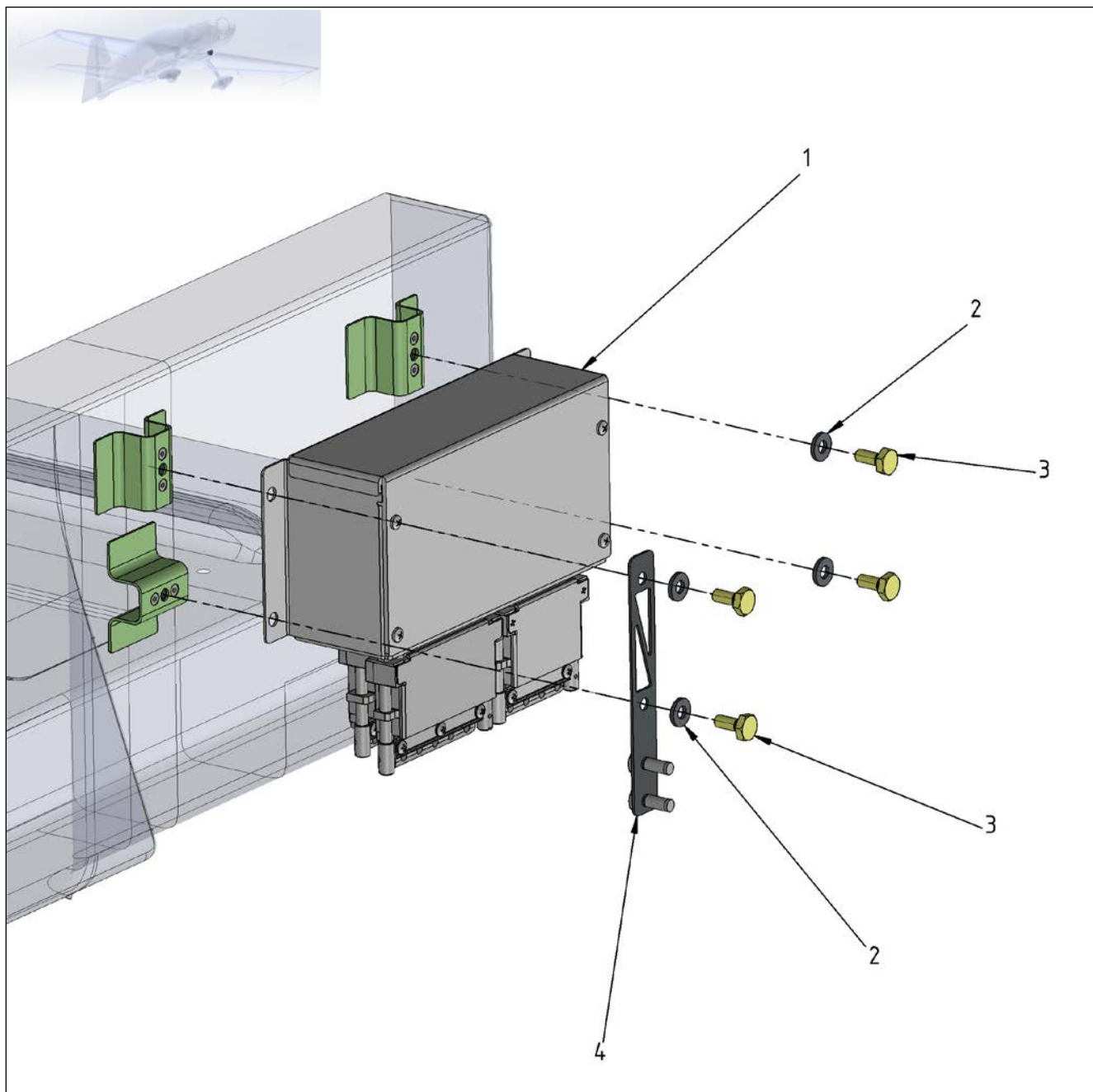


Figure 77-1 Integrated Engine Instrument Systems – Garmin GEA-24B EIS

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Engine Sensors

-	34793	Garmin GX3 Sensor Kit 6 Cylinder	1	
1	In 34793	. Oil Temperature Sensor	1	
2	In 34793	. EGT Sensor	6	
3	In 34793	. CHT Sensor	6	
-	In 34793	. Manifold Pressure Sensor (Refer to Figure 77-3)	1	
-		. Manifold Pressure Sensor	a	
-	In 34793	. Oil Pressure Sensor (Refer to Figure 77-3)	1	
-	In 34793	. Fuel Flow Transducer (Refer to Figure 77-4)	1	
4	34795	Garmin G3X RPM Sensor	1	
-	35458	Fuel Pressure Sensor (Refer to Figure 77-3)	2	
-	34794	Fuel Pressure Sensor	a	

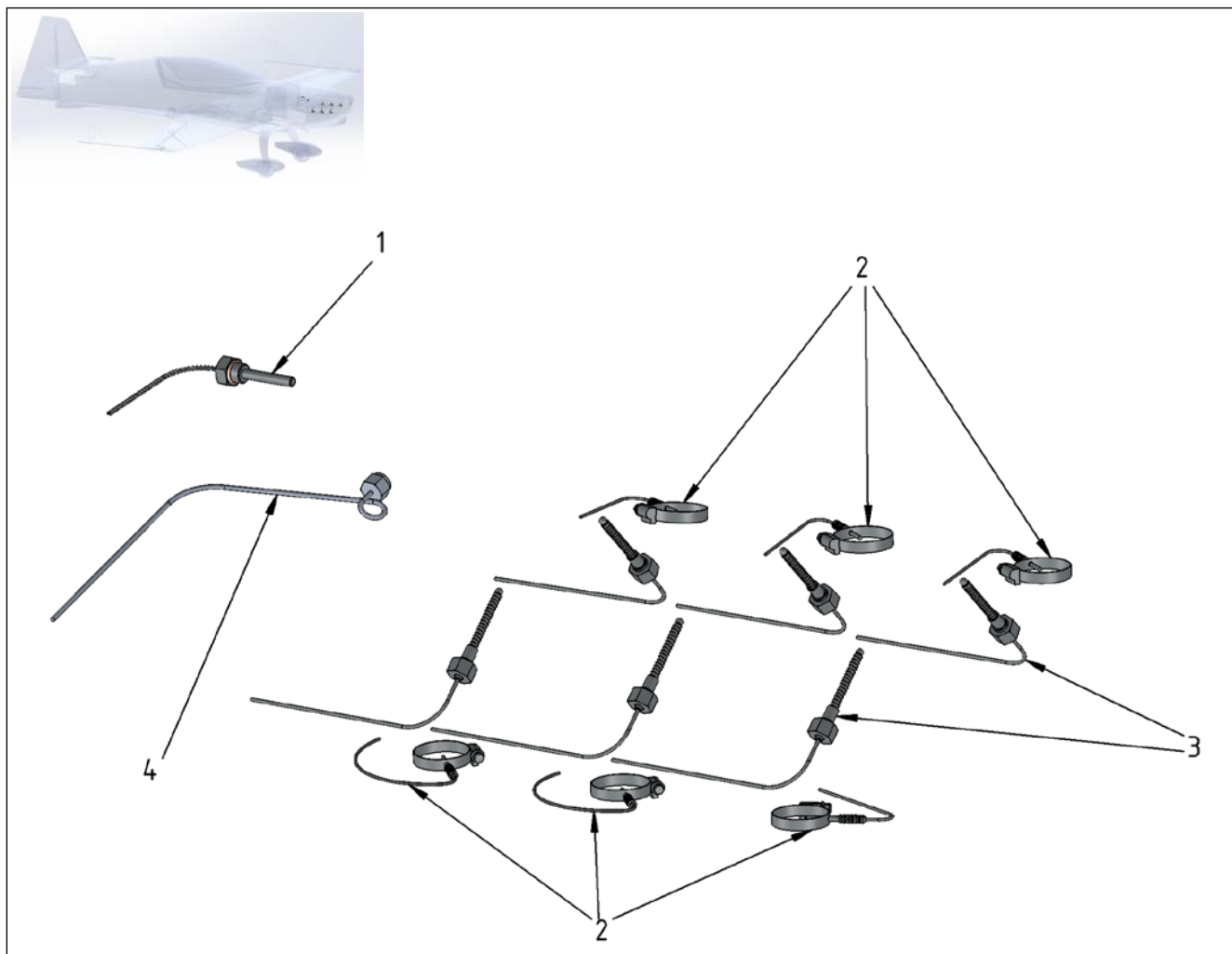


Figure 77-2 Engine Sensors

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
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Sense Lines Engine Compartment

1	61210.20	Fuel Pressure Sense Line Baffle – Fuel Divider	1
3	00178	Fitting Nut AN924-4D	1
13	61100.12	Fitting with Flow Limiter	1
2	41023	Clamp MS21919WDG8	2
<i>Attaching Parts</i>			
16	32008	Nut MS20365-1032	1
17	149	Washer AN960-10L	1
18	33566	Clamp 90° Twist Lyco 72815	1
19	00589	Bolt AN3-4A	1

15	61210.10	Fuel Pressure Sense Line Sensor - Baffle	1
4	35089	Washer AN960-716	2
5	00174	Fitting AN837-04D 45°	1
11	61103.10	MAP Sense Hose Assembly	1
13	61100.12	Fitting with Flow Limiter	1
14	33338	AN915-1D	1
12	61604.10	Oil Pressure Sensing Hose Assembly	1
13	61100.12	Fitting with Flow Limiter	1
6	In 34793	Oil Pressure Sensor	1
7	35458	Fuel Pressure Sensor	1
	34794	Fuel Pressure Sensor	a
8	In 34793	Manifold Pressure Sensor	1
		Manifold Pressure Sensor	a
<i>Attaching Parts</i>			
3	00178	Fitting Nut AN924-4D	1
9	61100.11	Adapter 1/8"NPT – 7/16" UNF	1
10	35090	Washer AN960-716L	2

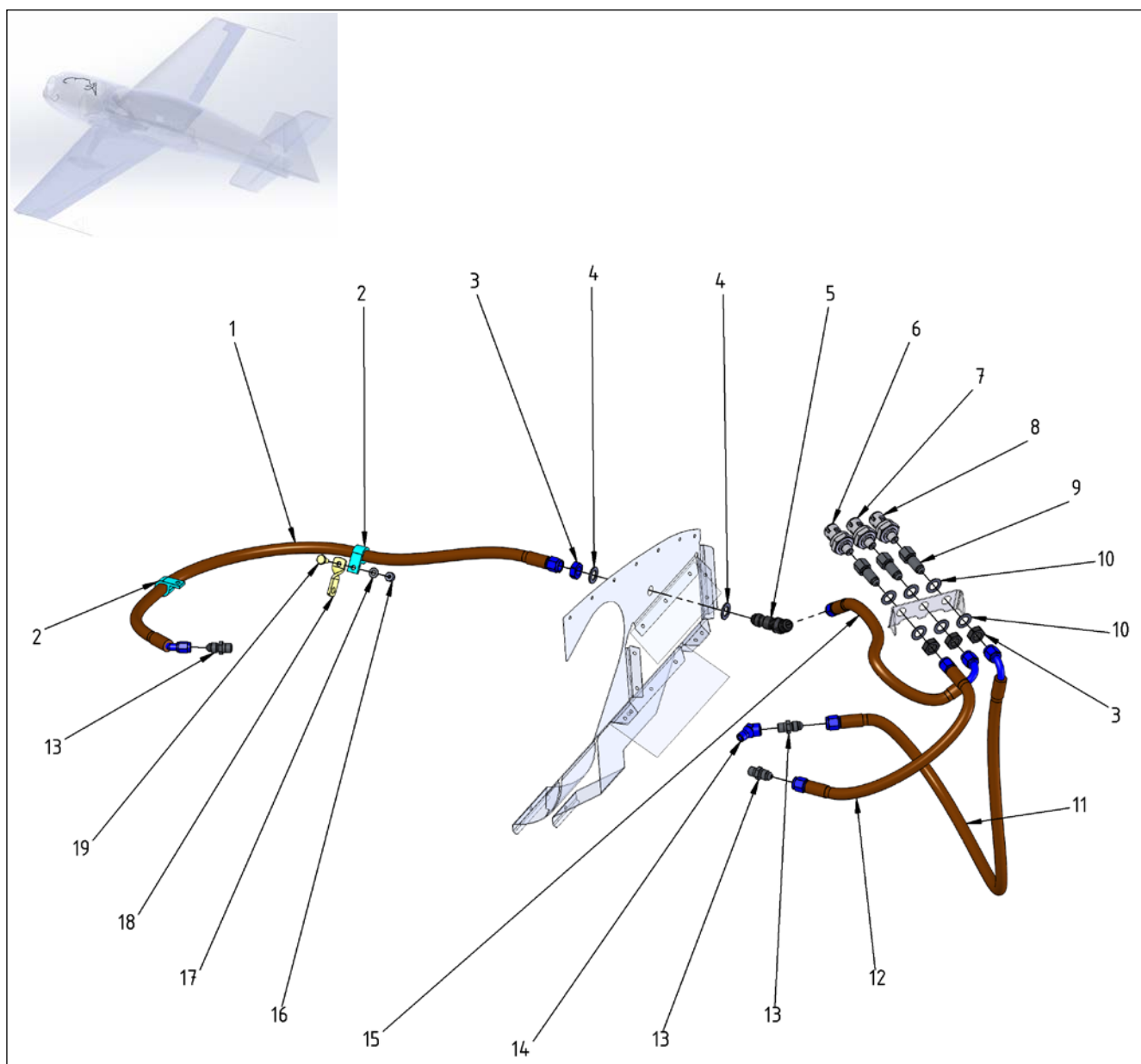


Figure 77-3 Sense Lines Engine Compartment

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
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Fuel Flow Transducer

3	In 34793	Fuel Flow Transducer (included in Garmin GX3)	1
<i>Attaching Parts</i>			
1	00759	Bolt AN4-17A	2
2	61101.11	Mounting Sheet FF XDCR	1
5	NA4125	Washer AN960-C416L	2
6	NA4150	Nut MS21083N4	2

4	00158	Fitting AN816-6D	2

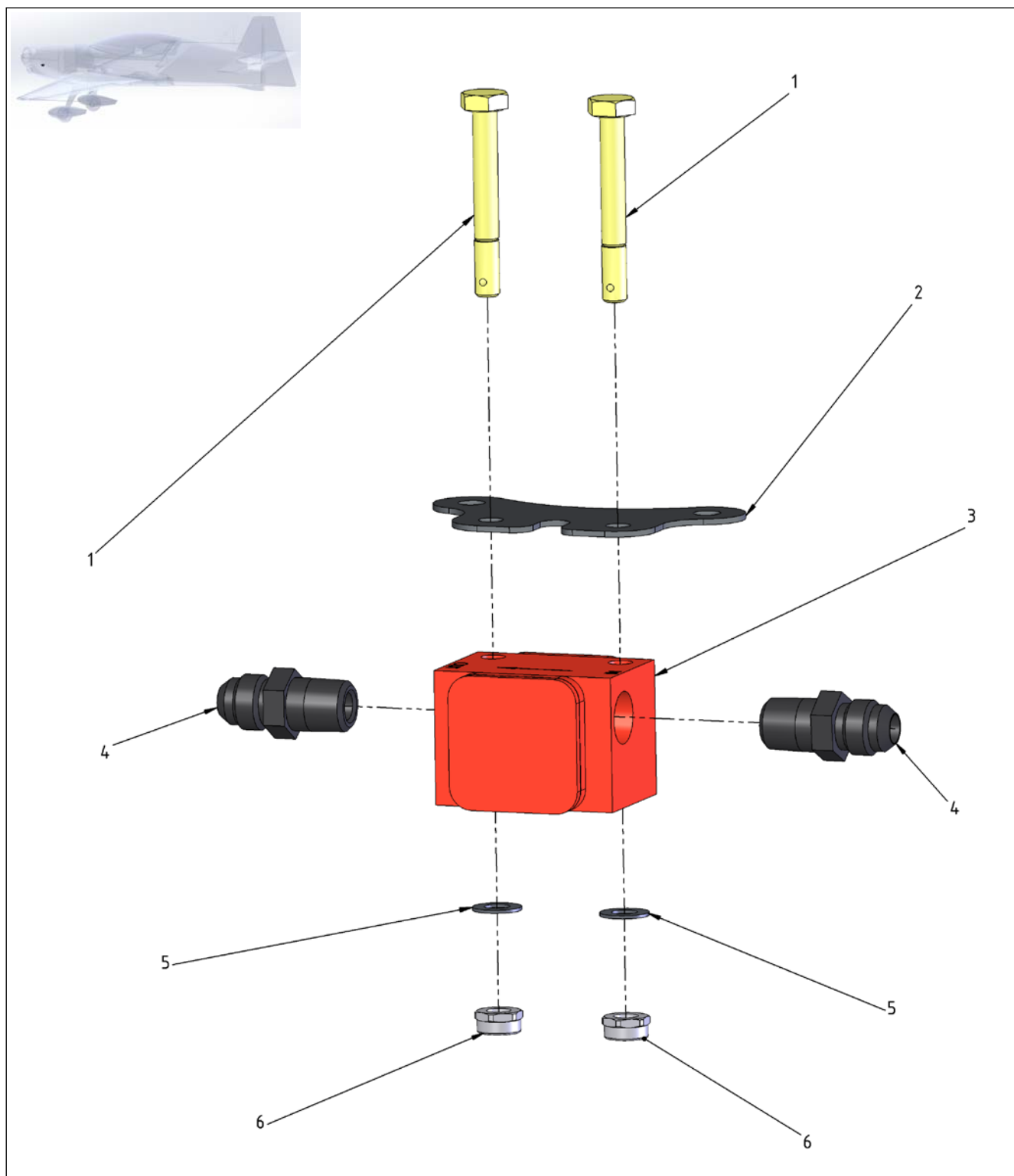


Figure 77-4 Fuel Flow Transducer

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78

Exhaust

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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78-10	Collector/Nozzle			
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Gomolzig 6 in 1				
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1	33891	Exhaust System Assembly	1	
2	In 33891	. Smoke Fitting	1	
3	In 33891	. Gasket	6	
4	In 33891	. Clamp Half	4	
<i>Attaching Parts</i>				
5	00589	Bolt AN3-4A	2	
8	NA4127	Washer AN960C-10	2	
9		Nut MS21046C3	2	

6	In 33891	. Heating Shield	1	
7	In 33891	. Clamp 50-70 mm	4	

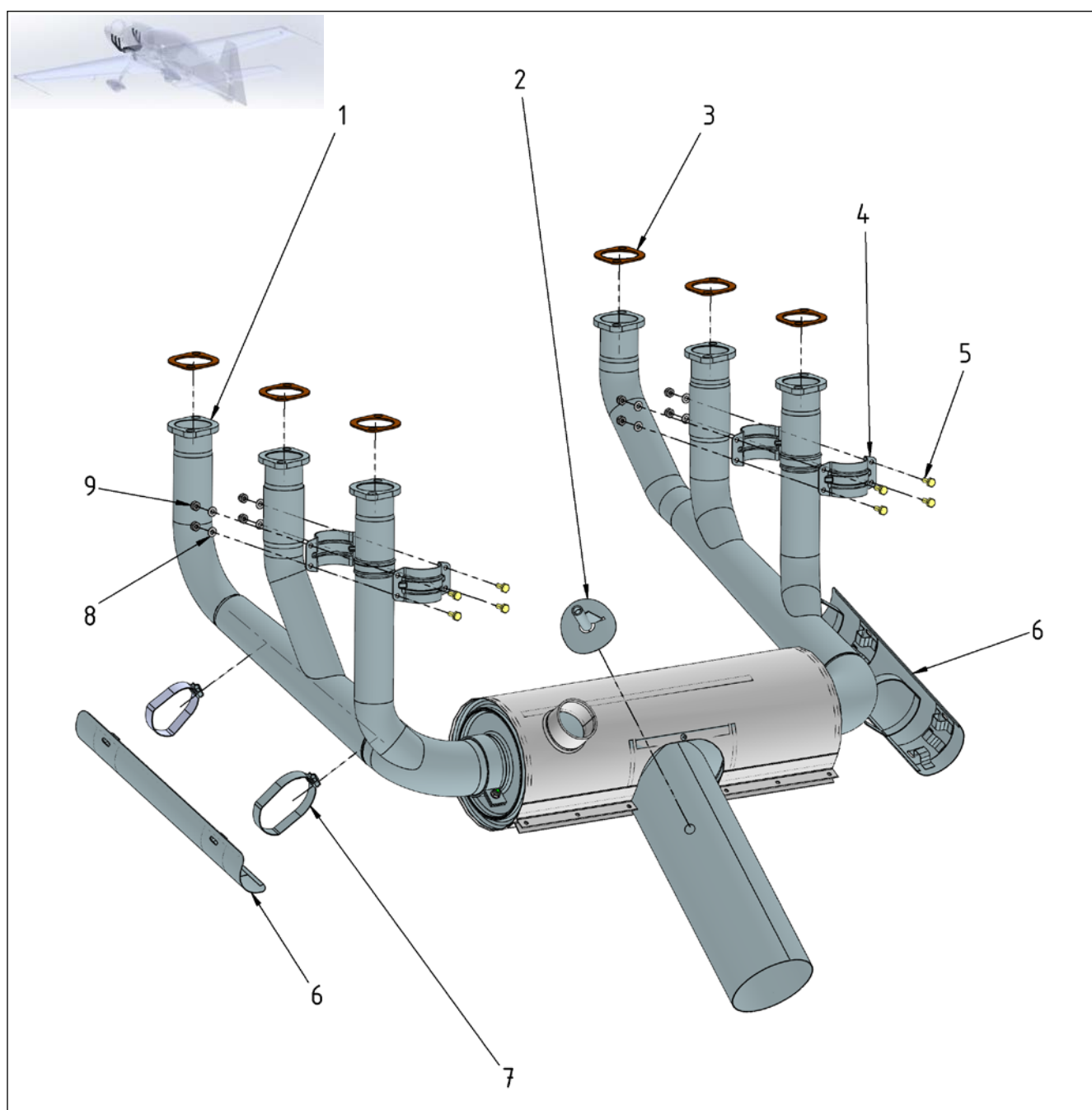


Figure 78-1 GOMOLZIG 6 in 1

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Chabord 6 in 2

-	81707.10.KBS	Chabord 6 in 2	1	
1	35886	. Exhaust System Assembly	1	
3	In 35886	.. Exhaust Support System	1	
4	In 35886	.. Smoke Oil Injection Nozzles	2	
5	In 35886	.. Slip Joints	6	
2	30140	.V-shaped Exhaust Flange Gasket	6	

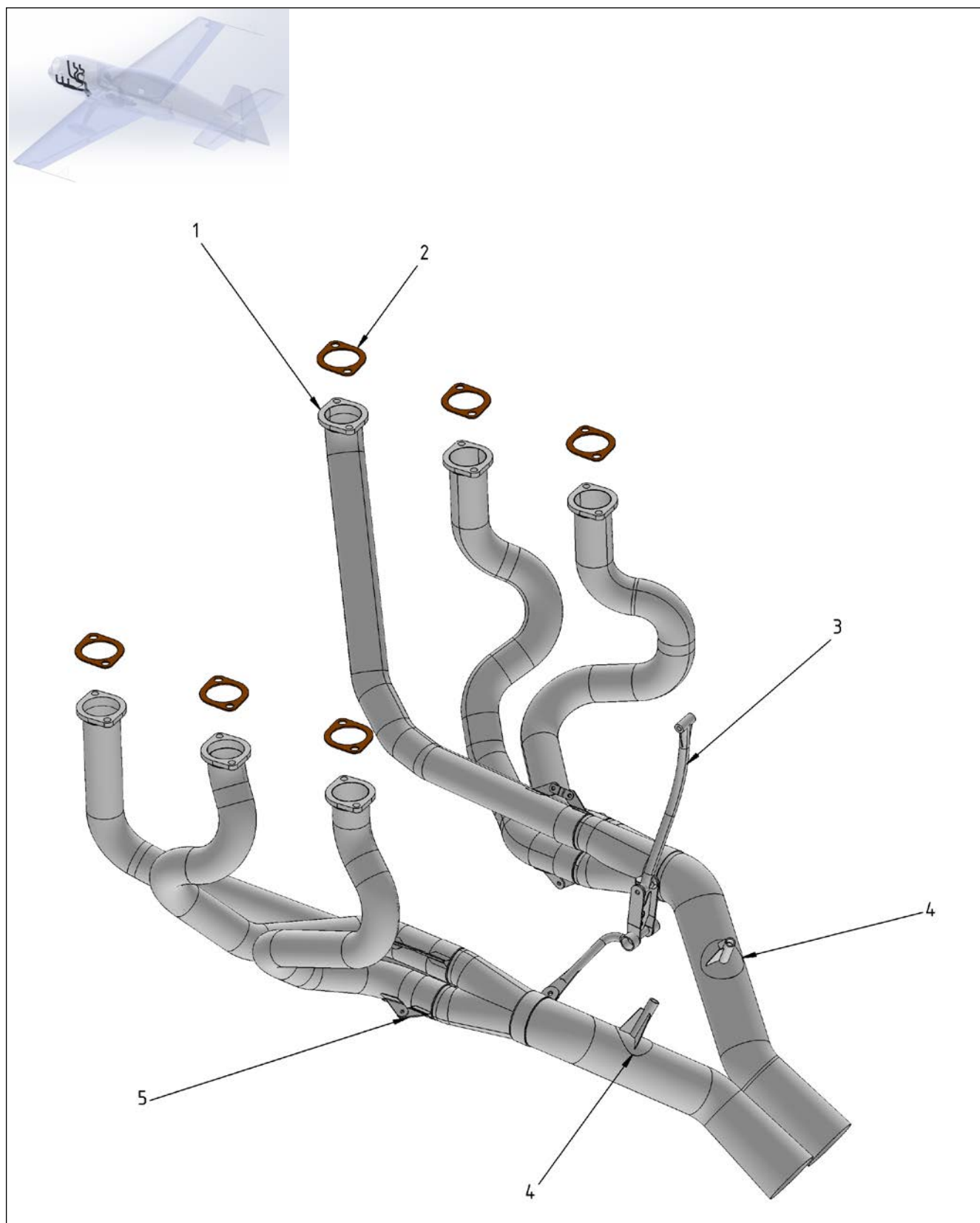


Figure 78-2 Chabord 6 in 2

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79

Oil

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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79-00

General

Breather Line

1	61602.13	Breather Line Section (FWD)	1	
2	61602.12	Connector Tube	2	
4	61602.11	Breather Line Section (AFT)	1	
<i>Attaching Parts</i>				
5	02930	Cable Tie MS3367-5	1	
6	In 35329	Swivel Cable Tie Mount	1	

3	00848	Clamp MS21919WDG13	2	
<i>Attaching Parts</i>				
7	700040	Bolt AN526C1032-R10	1	
8	00298	Paper Washer 11x4,7x0,6	1	
9	31583	Washer AN960-10	1	
10	88	Locknut AN364-1032A	1	

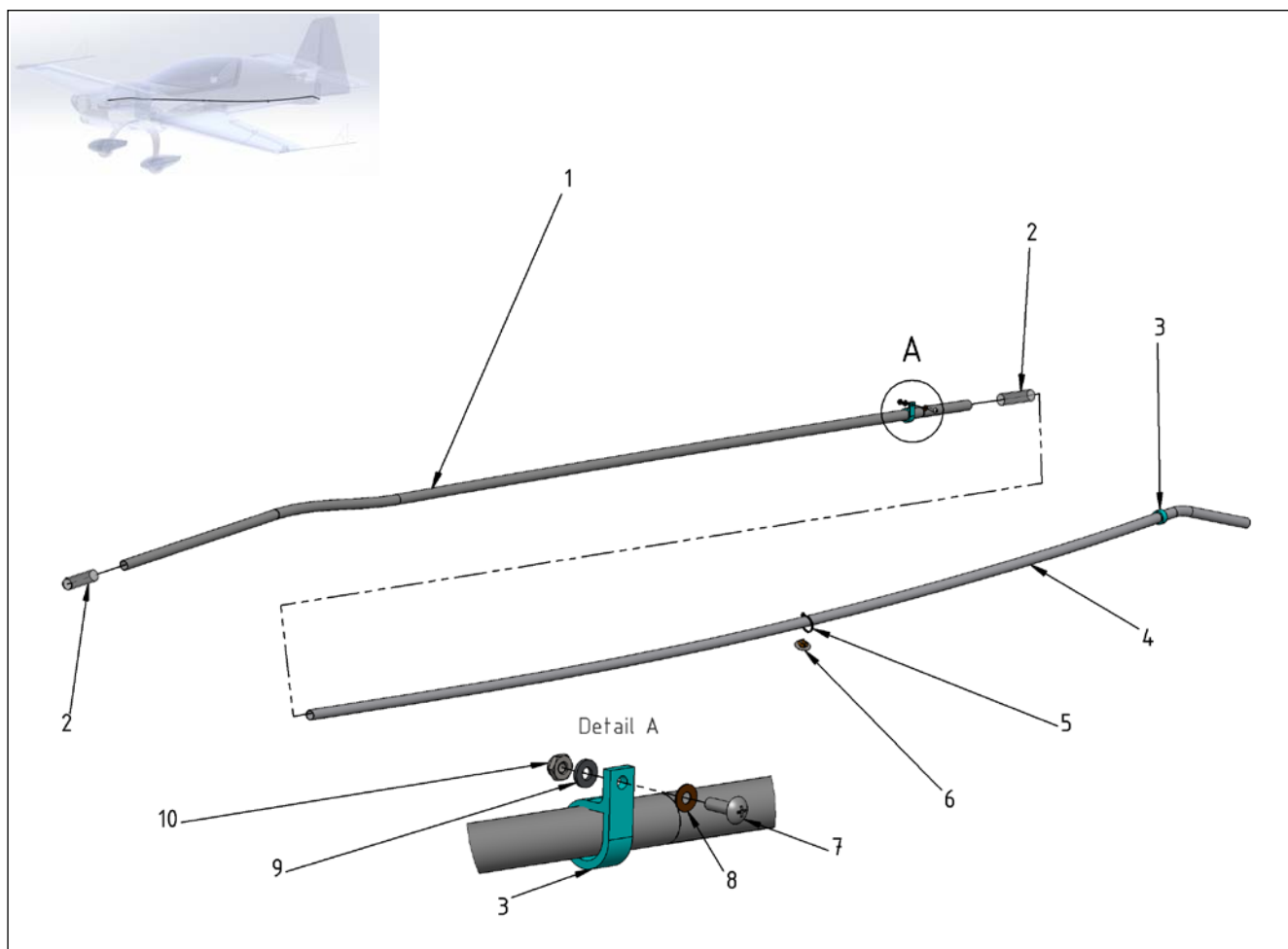


Figure 79-1 Breather Line

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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79-20

Distribution

Oil Cooler

1	31417	Oil Cooler	1
-	34674	Oil Cooler	a
3	61605.20	Oil Cooler Connection	1
<i>Attaching Parts</i>			
2	00202	Bolt AN3-3A	1
4	149	Washer AN960-10L	8
5	88	Nut AN364-1032	10
6	00936	Washer DIN9021 5,3 x 15 x 1,2 mm	5
7	002878	Nut AN315-3	2
8	61605.11-VM	Threaded Rod	2

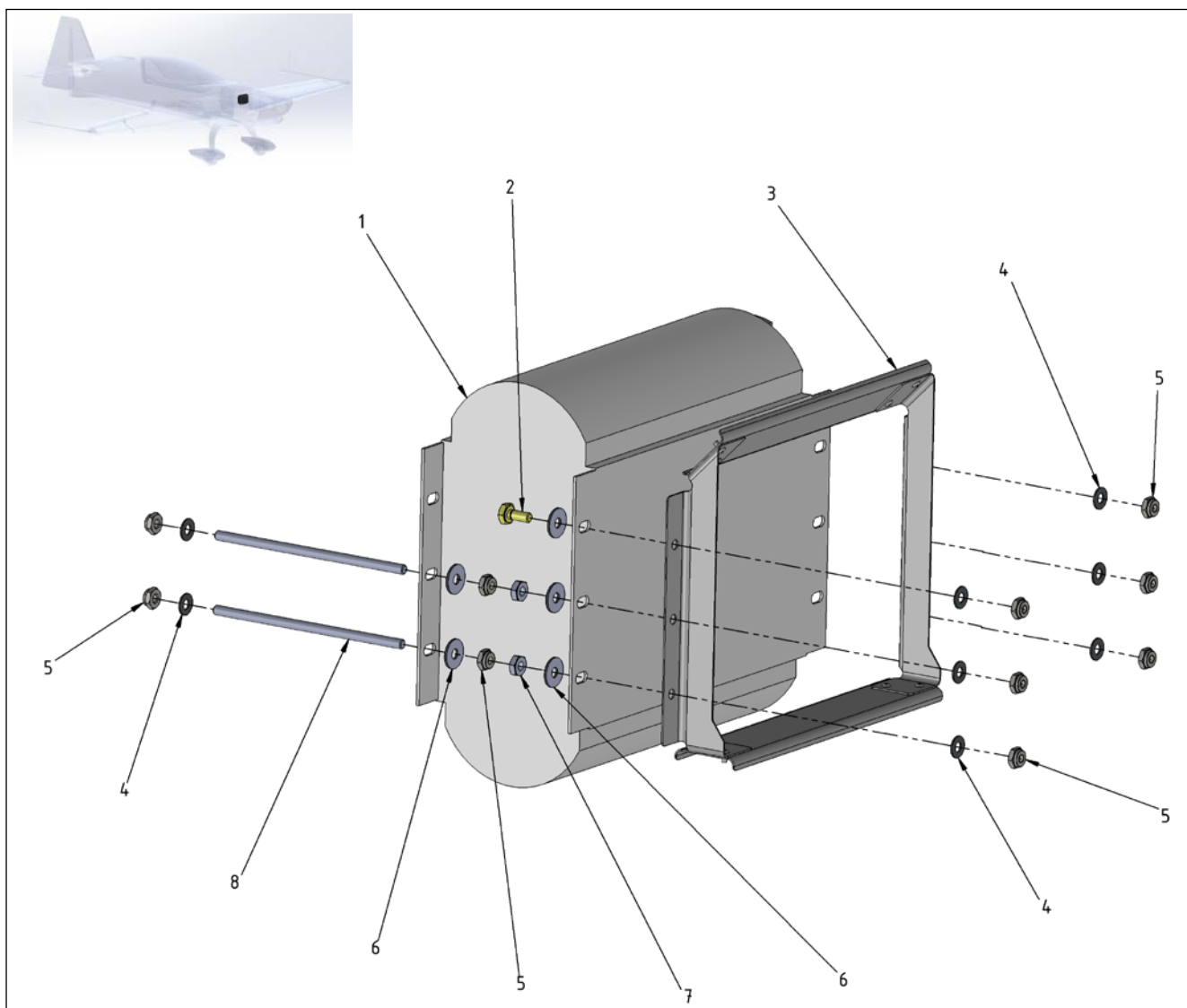


Figure 79-2 Distribution – Oil Cooler

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Additional Oil Cooler

10	8172010-VM	Baffle Assembly Additional Oil Cooler	1	
8	34676	Additional Oil Cooler (option)	1	
-	34675	Additional Oil Cooler	a	
-	00107	Additional Oil Cooler	a	
<i>Attaching Parts</i>				
1	81720.17	Stiffener Rod	1	
2	88	Nut MS21083N3	8	
3	35398	Washer DIN902-5,3-A2	3	
4	61605.12	Flange Reinforcement	6	
5	149	Washer AN960-10L	12	
6	02878	Nut AN315-3R	8	
9	61605.11	Threaded Rod	4	

7	00163	Fitting, Flared to NTP 90° MS20822-8D	2	

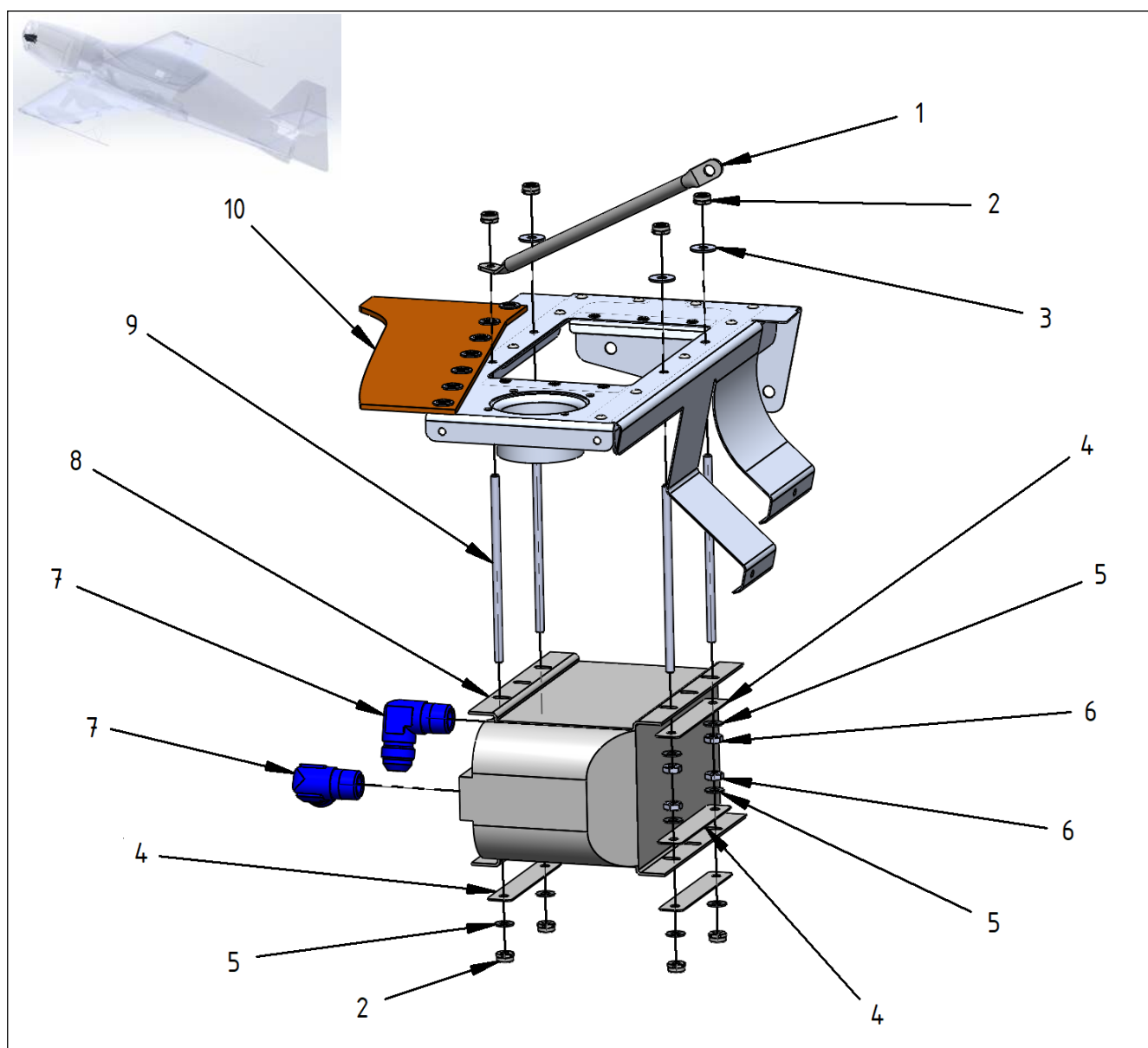


Figure 79-3 Additional Oil Cooler

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Oil Separator and Oil Valve

1	32063	Oil Separator <i>Attaching Parts</i>	1	
2	01526	Hose Clamp NORMA 110-130 mm ***	2	
5	32062	Oil Valve <i>Attaching Parts</i>	1	
3	00205	Bolt AN3-5A	4	
4	149	Washer AN960-10L ***	4	

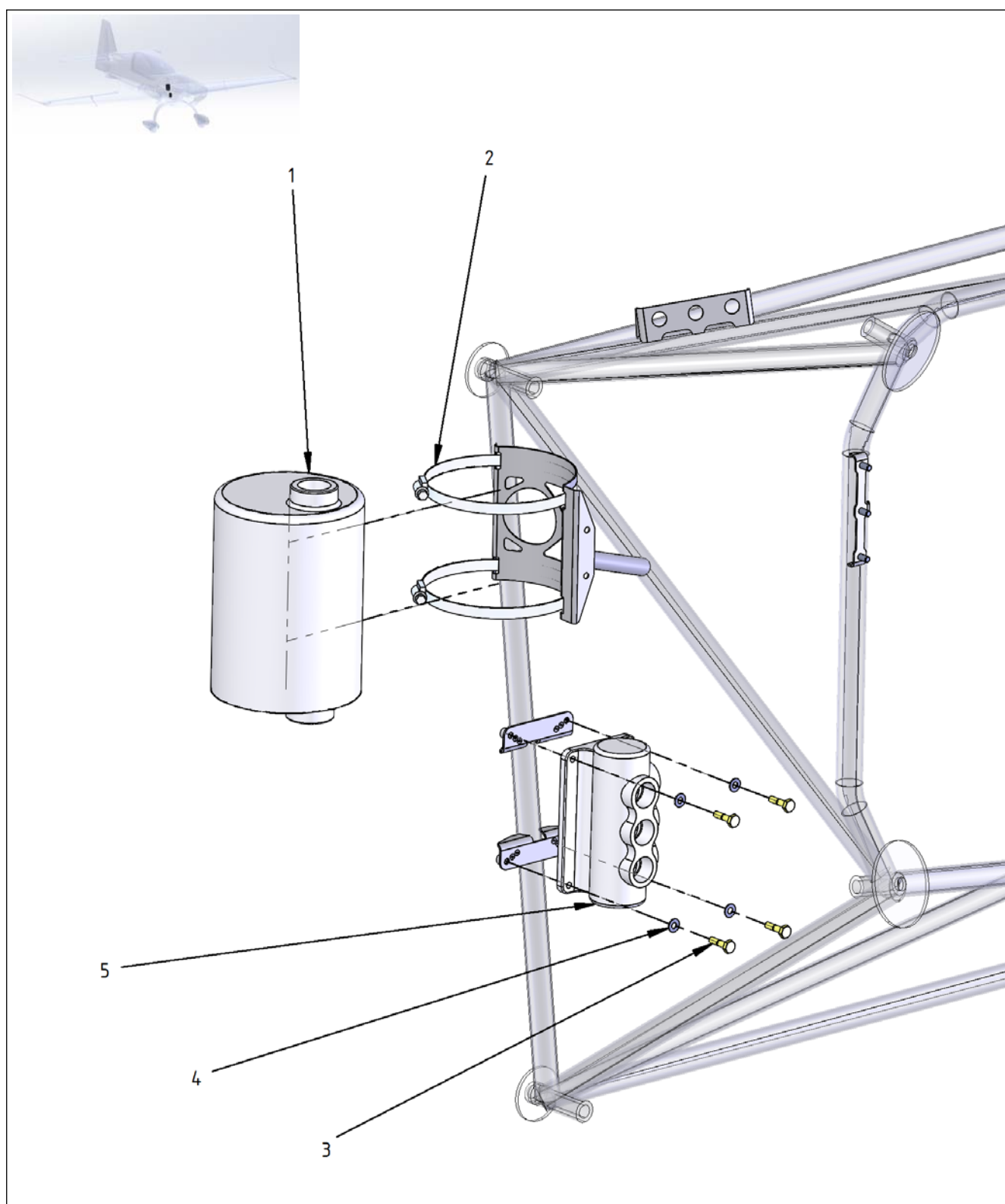


Figure 79-4 Oil Separator and Oil Valve

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Fittings and Hoses (Oil)

2	61603.80	Oil Hose Engine - Oil Separator	1	
4	00881	Fitting AN844-12D Hose Elbow 45°	2	
		<i>Attaching Parts</i>		
1	00849	Clamp MS21919WDG17	2	
3	01782	Hose Clamp NORMA 20-32 mm	2	

5	61603.10	Oil Hose Engine – Oil Cooler	1	
6	00869	Fitting AN823-08D 45° (MS20823-8D)	2	
8	61603.20	Oil Hose Assembly Oil Cooler – Engine	1	
6	00869	Fitting AN823-08D 45° (MS20823-8D)	1	
7	00163	Fitting AN822-08D 90° (MS20822-8D)	1	
10	61603.40	Oil Hose Assembly Upper Pickup – Oil Valve	1	
9	00165	Fitting MS20823-10D 45°	2	
11	61603.60	Oil Hose Assembly Oil Separator – Engine Oil Pan	1	
9	00165	Fitting MS20823-10D 45°	1	
12	01358	AN822-10D 90°	1	
13	61603.50	Oil Hose Assembly Oil Valve – Oil Separator	1	
9	00165	Fitting MS20823-10D 45°	1	
14	61603.30	Oil Hose Assembly Lower Pickup – Oil Valve		
9	00165	Fitting MS20823-10D 45°	1	
15	61603.90	Oil Hose Separator – Breather Line	1	
4	00881	Fitting AN844-12D Hose Elbow 45°	1	
		<i>Attaching Parts</i>		
3	01782	Hose Clamp NORMA 20-32 mm	2	

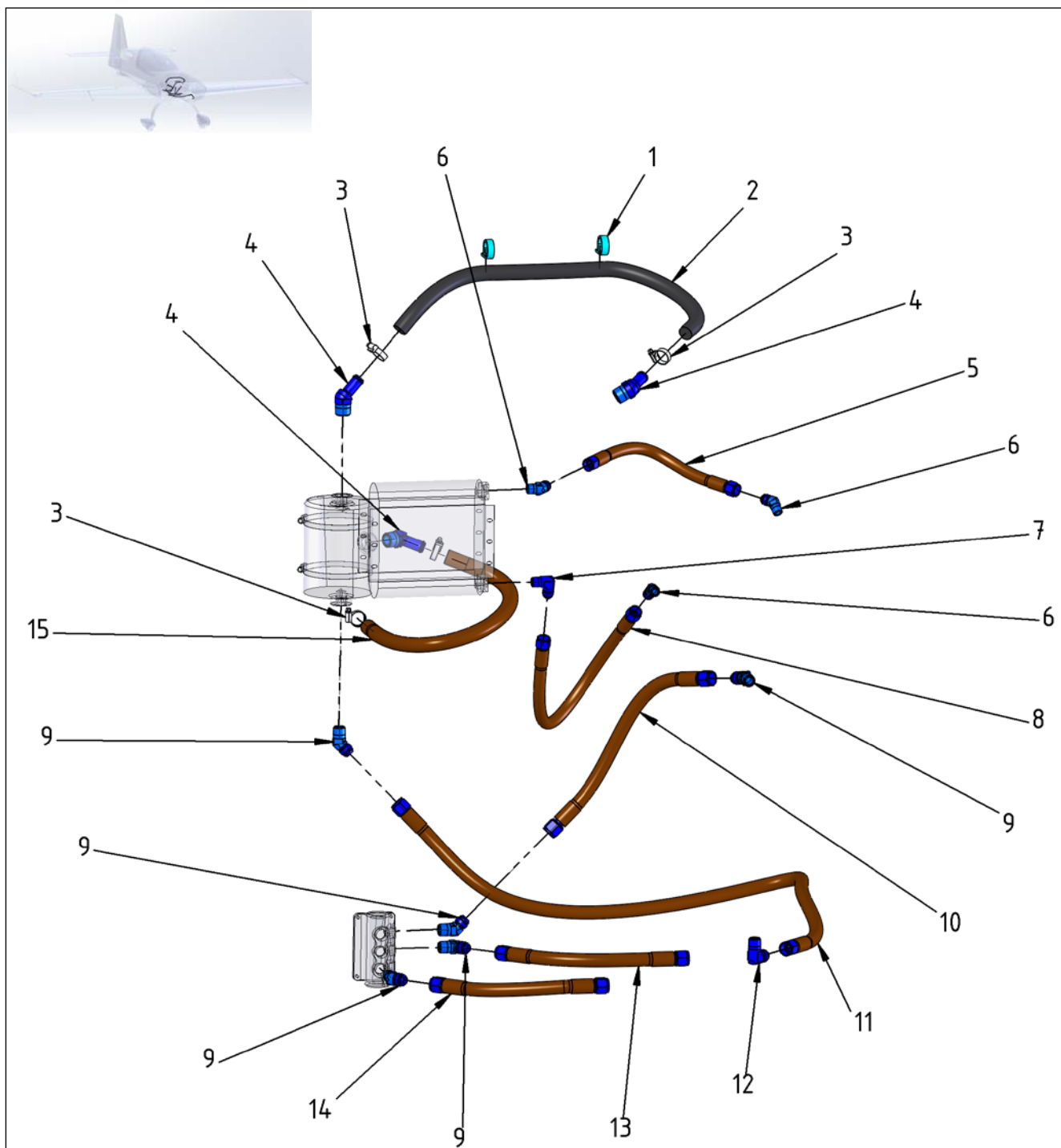


Figure 79-5 Fittings and Hoses (Oil)

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87

Smoke

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
87-10		Storage (Smoke)	
5	71611.11	Cover Smoke System <i>Attaching Parts</i>	1
1	71611.20-VM	Attachment Ring Smoke System (pre-assembled)	1
8	149	Washer AN960-10L	10
9	00204	Bolt AN3-5A ***	10
7	71614.30-VM	Vent Line Overboard	1
2	71614.10-VM	Vent Line Integral Tank	1
3	00178	Fitting AN924-04D Nut	1
4	00801	Washer AN960-C716	2
13	61213.91	Drain Tube	1
14	71614.01	Vent Hose Overboard	1
19	00173	Fitting AN833-04D 90°	
10	71614.20-VM	Smoke Line Conn. Vent Line	1
2	71614.10-VM	Vent Line Integral Tank	1
3	00178	Fitting AN924-04D Nut	1
4	00801	Washer AN960-C716	2
6	00171	Fitting AN832-04D Union	1
11	71615.10-VM	Smoke Line CT – AT	1
12	71612.10-VM	Smoke Acro Tank pre-assembled	1
-	71555.20-VM	Gorund. Cable CT- AT	1
16	71611.30-VS	Smoke Tank Output <i>Attaching Parts</i>	1
8	149	Washer AN960-10L	5
15	00202	Bolt AN3-3A	5
17	00388	Tank Counter Flange N05801434	1
18	71611.33	Attachment Ring ***	1
20	00654	Float Switch	1

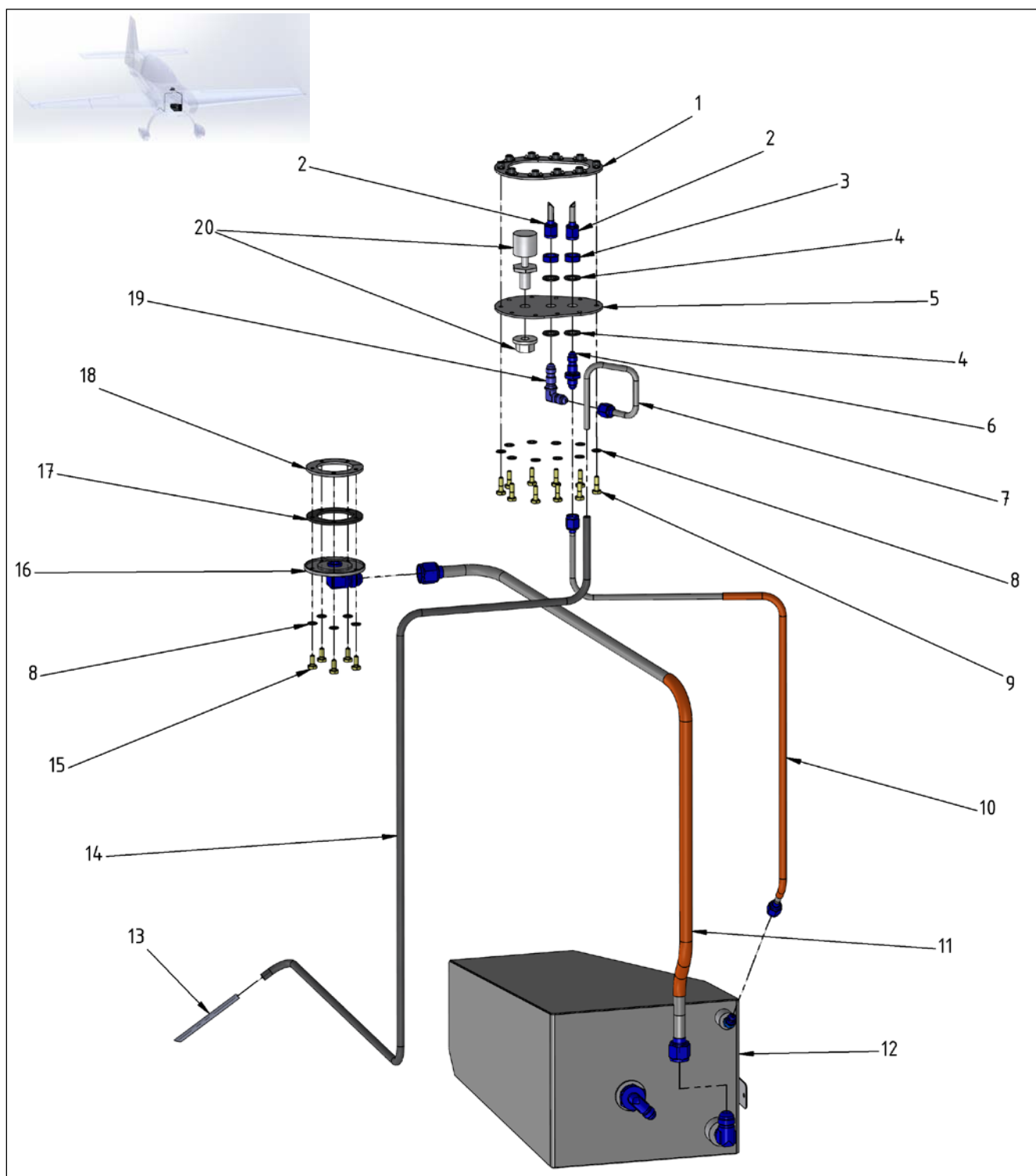


Figure 87-1 Smoke - Storage

Chapter/ Item Number	Partnumber	Nomenclature	UpA eff
87-20		Distribution (Smoke)	
3	71613.10-VM	Smoke Oil Drain Line	1
10	00159	Fitting AN816-4D	1
11	00987	Fitting AN910-1W Coupling	1
12	01211	Drain Valve 1/8" NPT	1
4	71615.20-VM	Smoke Line AT - Pump	1
2	31641	MS20822-6-6D <i>Attaching Parts</i>	1
5	35213	Grommet MS35489-149 ***	1
14	71615.01	Hose Filter – Coupling <i>Attaching Parts</i>	1
15	01093	Hose Clamp NORMA 12-20 mm ***	1
13	33576	Coupling 26KATF10MPX	1
17	31640	Fitting 7001-06D	1
18	33196	Oil Filter Z-C 1000 0048	1
19	31639	Fitting 926-06D	1
20	35338	Adapter 3/8" NPT x D-6	1
22	35337	Adapter D-06 90° F/F	1
23	31605	Check Valve	1
	36489	Check Valve	a
1	71616.20-VS	Smoke Pump Attachment	1
21	31634	Smoke Pump 12V <i>Attaching Parts</i>	1
7	NA4126	Washer AN960C-10L	4
16	04001	Nut MS21044N3 ***	4
8	01554	Clamp MS21919WDG9 <i>Attaching Parts</i>	2
6	04001	Nut AN365-1032A	1
7	NA4126	Washer AN960C-10L	2
9	00589	Bolt AN3-4A ***	1

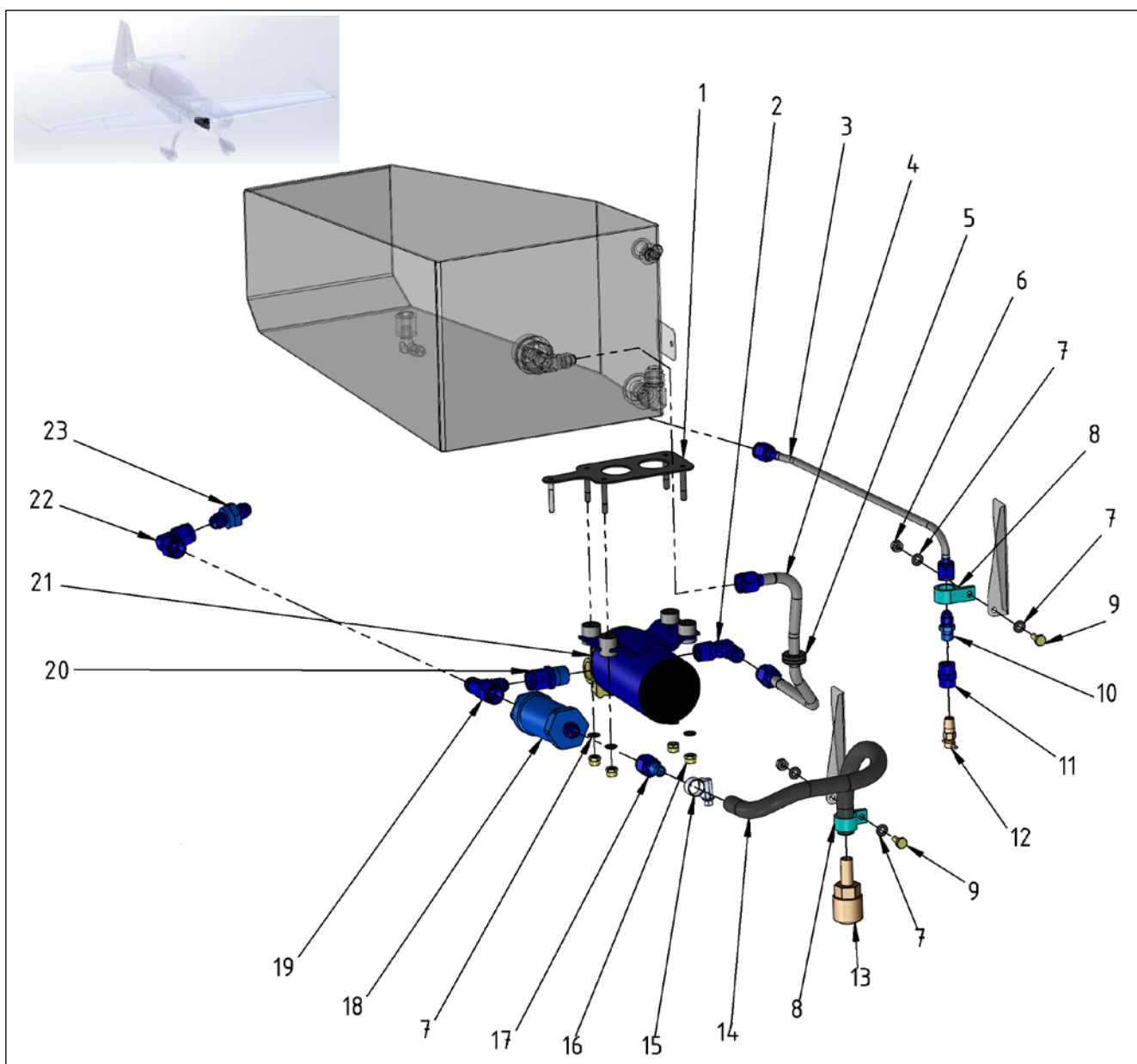


Figure 87-2 Smoke - Distribution

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Injection Gomolzig (Smoke)

1	71615.30-VM	Smoke Line Pump - FW <i>Attaching Parts</i>	1	
2	00177	Fitting AN924-6D	1	
3	NA4056	Washer AN960-916L ***	1	
6	71617.10	Smoke Hose Assembly Exhaust	1	
4	35348	Fitting AN837-6	1	
5	32089	Fitting Reducer E9892064	1	
7	71618.20	Smoke Injection Nozzle	1	

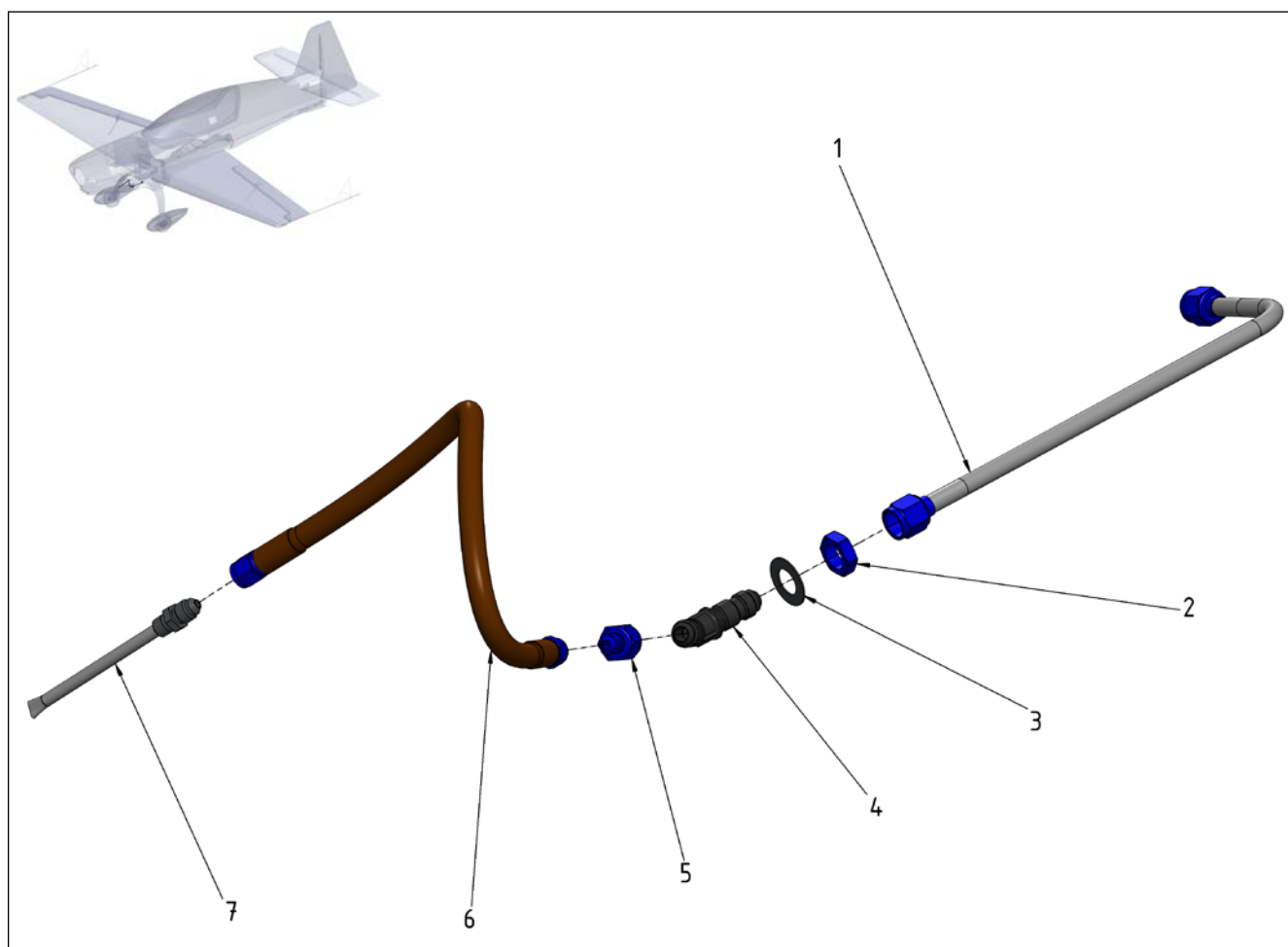


Figure 87-3 Smoke - Injection Gomolzig

Chapter/ Item Number	Partnumber	Nomenclature	UpA	eff
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Injection Chabord (Smoke)

1	71615.30-VM	Smoke Line Pump – FW	1	
		<i>Attaching Parts</i>		
2	00177	Fitting AN924-06D Nut	1	
7	01852	Washer AN960-C916	1	
9	NA4056	Washer AN960-PD916L	1	

3	35575	Tee, Bulkhead AN834-6	1	
5	61103.10	Smoke Hose Assembly Exhaust MAP	2	
4	32089	Fitting Reducer E9892064	2	
6	71618.20	Smoke Injection Nozzle	2	
8	71617.21	Firewall Cover Chabord	1	

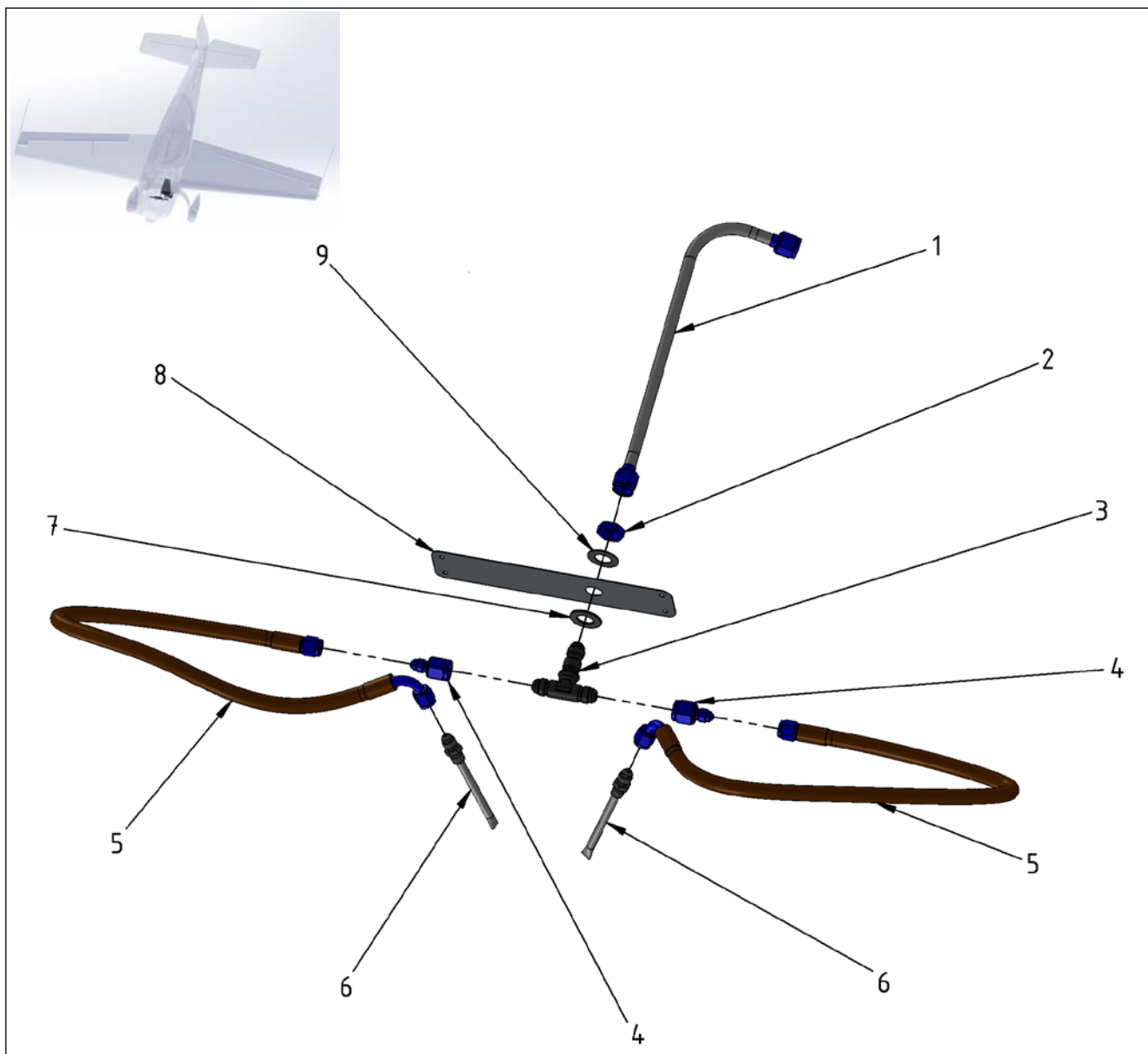


Figure 87-4 Smoke - Injection Chabord

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