

Log of Revisions

Dates of issue for original and revised pages:	Date and sign of approval:
1st Edition 16. June 2008	EASAMAJOR CHANGE APPROVAL N° EASA.A.C.08679 17. July 2008
1. Revision 29. May 2009	Approved under the authority of DOA N° EASA.21J.073 29. May 2009
2. Revision 1. August 2014	The technical content of this document is approved under the authority of DOA ref. EASA.21J.073. 19. December 2014
3. Revision 4. March 2016	The technical content of this document is approved under the authority of DOA ref. EASA.21J.073. 23. March 2016
4. Revision 12. February 2019	The technical content of this document is approved under the authority of DOA ref. EASA.21J.073. 19. April 2019
5. Revision 26. July 2021	The technical content of this document is approved under the authority of DOA ref. EASA.21J.073. 3. September 2021
6. Revision 15. July 2022	The technical content of this document is approved under the authority of DOA ref. EASA.21J.073. 19. July 2022
2nd Edition 10. February 2023	The technical content of this document is approved under the authority of DOA ref. EASA.21J.073. 30. March 2023
1. Revision 16. June 2023	The technical content of this document is approved under the authority of DOA ref. EASA.21J.073. 21. June 2023

List of Effective Pages

Chapter	Page	Date of Issue	Chapter	Page	Date of Issue	Chapter	Page	Date of Issue		
01	Cover sheet	10. February 2023		14	10. February 2023		9	10. February 2023		
	A	16. June 2023		15	10. February 2023	09	10	10. February 2023		
	B	16. June 2023		16	10. February 2023		1	10. February 2023		
	C	16. June 2023		17	10. February 2023		2	10. February 2023		
	D	16. June 2023		18	10. February 2023		3	10. February 2023		
	E	16. June 2023		19	10. February 2023		4	10. February 2023		
	02	F	10. February 2023		20	10. February 2023	10	5	10. February 2023	
		G	10. February 2023		21	16. June 2023		6	10. February 2023	
		H	10. February 2023		22	16. June 2023		1	10. February 2023	
		1	10. February 2023		23	10. February 2023		2	10. February 2023	
2		10. February 2023		24	10. February 2023	3		10. February 2023		
03		3	10. February 2023		25	10. February 2023	12	4	10. February 2023	
		4	10. February 2023		26	10. February 2023		5	10. February 2023	
		5	10. February 2023		27	10. February 2023		6	10. February 2023	
		6	10. February 2023		28	10. February 2023		7	10. February 2023	
		7	10. February 2023		29	10. February 2023		8	10. February 2023	
	04	8	16. June 2023		30	10. February 2023	20	1	10. February 2023	
		9	16. June 2023		31	10. February 2023		2	10. February 2023	
		10	10. February 2023		32	10. February 2023		3	10. February 2023	
		1	10. February 2023	06	33	10. February 2023		4	10. February 2023	
		2	10. February 2023		1	10. February 2023		5	10. February 2023	
3		10. February 2023	2		10. February 2023	6	10. February 2023			
4		10. February 2023	3		10. February 2023	7	10. February 2023			
5		10. February 2023	4		10. February 2023	8	10. February 2023			
05		6	10. February 2023			5	10. February 2023	07	18	10. February 2023
		7	10. February 2023			6	10. February 2023		19	10. February 2023
	8	10. February 2023			7	10. February 2023	20		10. February 2023	
	9	10. February 2023			8	10. February 2023	1		10. February 2023	
	10	10. February 2023			8	10. February 2023	2		10. February 2023	
	06	see Chapter 04		07	1	10. February 2023	20	3	10. February 2023	
		1	10. February 2023		2	10. February 2023		4	10. February 2023	
		2	10. February 2023		3	10. February 2023		5	10. February 2023	
		3	10. February 2023		4	10. February 2023		6	10. February 2023	
		4	10. February 2023		5	10. February 2023		7	10. February 2023	
07		5	10. February 2023			6	10. February 2023	08	8	10. February 2023
		6	10. February 2023			7	10. February 2023		9	10. February 2023
		7	10. February 2023			8	10. February 2023		10	10. February 2023
		8	16. June 2023			1	10. February 2023		11	10. February 2023
		9	10. February 2023			2	10. February 2023		12	10. February 2023
	08	10	10. February 2023		3	10. February 2023		13	10. February 2023	
		11	10. February 2023		4	10. February 2023		14	10. February 2023	
		12	10. February 2023		5	10. February 2023		15	10. February 2023	
		13	10. February 2023		6	10. February 2023		16	10. February 2023	
					7	10. February 2023		17	10. February 2023	

List of Effective Pages

Chapter	Page	Date of Issue	Chapter	Page	Date of Issue	Chapter	Page	Date of Issue
21	18	10. February 2023	28	7	10. February 2023	31	26	10. February 2023
	19	10. February 2023		8	10. February 2023		27	10. February 2023
	20	10. February 2023		9	10. February 2023		28	10. February 2023
	21	10. February 2023		10	10. February 2023		29	10. February 2023
	22	10. February 2023		11	10. February 2023		30	10. February 2023
	23	10. February 2023		12	10. February 2023		31	10. February 2023
	24	10. February 2023		13	16. June 2023		32	10. February 2023
	25	10. February 2023		14	10. February 2023		33	10. February 2023
	26	10. February 2023		15	10. February 2023		34	10. February 2023
	1	10. February 2023		16	10. February 2023		35	10. February 2023
	2	10. February 2023		17	10. February 2023		36	10. February 2023
	3	10. February 2023		18	10. February 2023		37	10. February 2023
	4	10. February 2023		19	10. February 2023		38	10. February 2023
	5	10. February 2023		20	10. February 2023		39	10. February 2023
	6	10. February 2023		21	10. February 2023		40	10. February 2023
	7	10. February 2023		22	10. February 2023		1	10. February 2023
	8	10. February 2023		23	10. February 2023		2	10. February 2023
9	10. February 2023	24	10. February 2023	3	16. June 2023			
10	10. February 2023	25	10. February 2023	4	10. February 2023			
11	10. February 2023	26	10. February 2023	5	10. February 2023			
12	10. February 2023	27	10. February 2023	6	10. February 2023			
23	1	10. February 2023	28	10. February 2023	7	10. February 2023		
	2	10. February 2023	29	10. February 2023	8	10. February 2023		
	3	10. February 2023	30	10. February 2023	9	16. June 2023		
	4	10. February 2023	31	10. February 2023	10	16. June 2023		
	5	10. February 2023	32	10. February 2023	1	10. February 2023		
24	6	10. February 2023	33	10. February 2023	32	2	10. February 2023	
	1	10. February 2023	34	10. February 2023		3	10. February 2023	
	2	10. February 2023	1	10. February 2023		4	10. February 2023	
	3	10. February 2023	2	10. February 2023		5	10. February 2023	
	4	10. February 2023	3	10. February 2023		6	10. February 2023	
	5	10. February 2023	4	10. February 2023		7	10. February 2023	
	6	10. February 2023	5	10. February 2023		8	10. February 2023	
	7	10. February 2023	6	10. February 2023		9	10. February 2023	
	8	10. February 2023	7	10. February 2023		10	10. February 2023	
	9	10. February 2023	8	10. February 2023		11	10. February 2023	
	10	10. February 2023	9	10. February 2023		12	10. February 2023	
25	11	10. February 2023	10	10. February 2023	13	10. February 2023		
	12	10. February 2023	11	10. February 2023	14	10. February 2023		
	1	10. February 2023	12	10. February 2023	15	10. February 2023		
	2	10. February 2023	13	10. February 2023	16	10. February 2023		
	3	10. February 2023	14	10. February 2023	1	10. February 2023		
	4	10. February 2023	15	10. February 2023	2	10. February 2023		
	5	10. February 2023	16	10. February 2023	3	10. February 2023		
	6	10. February 2023	17	10. February 2023	4	10. February 2023		
	7	10. February 2023	18	10. February 2023	5	10. February 2023		
	8	10. February 2023	19	10. February 2023	6	10. February 2023		
	27	1	10. February 2023	20	10. February 2023	33	7	10. February 2023
		2	10. February 2023	21	10. February 2023		8	10. February 2023
3		10. February 2023	22	10. February 2023	1		10. February 2023	
4		10. February 2023	23	10. February 2023	2		10. February 2023	
5		10. February 2023	24	10. February 2023	3		10. February 2023	
6		10. February 2023	25	10. February 2023	4		10. February 2023	
1		10. February 2023	20	10. February 2023	34		1	10. February 2023
2		10. February 2023	21	10. February 2023			2	10. February 2023
3	10. February 2023	22	10. February 2023	3		10. February 2023		
4	10. February 2023	23	10. February 2023	4		10. February 2023		
5	10. February 2023	24	10. February 2023					
6	10. February 2023	25	10. February 2023					

List of Effective Pages

Chapter	Page	Date of Issue	Chapter	Page	Date of Issue	Chapter	Page	Date of Issue
51	5	10. February 2023	53	46	10. February 2023	71	3	10. February 2023
	6	10. February 2023		1	10. February 2023		4	10. February 2023
	7	10. February 2023		2	10. February 2023		5	10. February 2023
	8	10. February 2023		3	10. February 2023		6	10. February 2023
	9	10. February 2023		4	10. February 2023		7	10. February 2023
	10	10. February 2023		5	10. February 2023		8	10. February 2023
	11	10. February 2023		6	10. February 2023		9	10. February 2023
	12	10. February 2023		7	10. February 2023		10	10. February 2023
	1	10. February 2023		8	10. February 2023		1	10. February 2023
	2	10. February 2023		9	10. February 2023		2	10. February 2023
	3	10. February 2023		10	10. February 2023		3	10. February 2023
	4	10. February 2023		11	10. February 2023		4	10. February 2023
	5	10. February 2023	12	10. February 2023	5	10. February 2023		
	6	10. February 2023	13	10. February 2023	6	10. February 2023		
	7	10. February 2023	14	10. February 2023	7	10. February 2023		
	8	10. February 2023	15	10. February 2023	8	10. February 2023		
	9	10. February 2023	16	10. February 2023	9	10. February 2023		
	10	10. February 2023	17	10. February 2023	10	10. February 2023		
	11	10. February 2023	18	10. February 2023	11	10. February 2023		
	12	10. February 2023	19	10. February 2023	12	10. February 2023		
	13	10. February 2023	20	10. February 2023	1	10. February 2023		
	14	10. February 2023	55	1	10. February 2023	72	2	10. February 2023
	15	10. February 2023		2	10. February 2023		3	10. February 2023
	16	10. February 2023		3	10. February 2023		4	10. February 2023
	17	10. February 2023		4	10. February 2023		5	10. February 2023
	18	10. February 2023		5	10. February 2023		6	10. February 2023
	19	10. February 2023		6	10. February 2023		7	10. February 2023
	20	10. February 2023		7	10. February 2023		8	10. February 2023
	21	10. February 2023		8	10. February 2023		1	10. February 2023
	22	10. February 2023		9	10. February 2023		2	10. February 2023
	23	10. February 2023		10	10. February 2023		3	10. February 2023
	24	10. February 2023		11	10. February 2023		4	10. February 2023
	25	10. February 2023		12	10. February 2023		5	10. February 2023
	26	10. February 2023	13	10. February 2023	6	10. February 2023		
	27	10. February 2023	14	10. February 2023	7	10. February 2023		
	28	10. February 2023	15	10. February 2023	8	10. February 2023		
	29	10. February 2023	16	10. February 2023	9	10. February 2023		
	30	10. February 2023	57	1	10. February 2023	73	10	10. February 2023
	31	10. February 2023		2	10. February 2023		11	10. February 2023
	32	10. February 2023		3	10. February 2023		12	10. February 2023
	33	10. February 2023		4	10. February 2023		13	10. February 2023
	34	10. February 2023		5	10. February 2023		14	10. February 2023
	35	10. February 2023		6	10. February 2023		15	10. February 2023
	36	10. February 2023		7	10. February 2023		16	10. February 2023
	37	10. February 2023		8	10. February 2023		17	10. February 2023
38	10. February 2023	9		10. February 2023	18		10. February 2023	
39	10. February 2023	10		10. February 2023	19		10. February 2023	
40	10. February 2023	11		10. February 2023	20		10. February 2023	
41	10. February 2023	12		10. February 2023	21		10. February 2023	
42	10. February 2023	13	10. February 2023	22	10. February 2023			
43	10. February 2023	61	14	10. February 2023	77	1	10. February 2023	
44	10. February 2023		1	10. February 2023		2	10. February 2023	
45	10. February 2023		2	10. February 2023		3	10. February 2023	

List of Effective Pages

Chapter	Page	Date of Issue	Chapter	Page	Date of Issue	Chapter	Page	Date of Issue
	4	10. February 2023		3	10. February 2023	EA-93102.22		04. 04. 2006
	5	10. February 2023		4	10. February 2023	EA-93102.26		04. 04. 2006
	6	10. February 2023		5	10. February 2023	EA-9C102.27		05. 05. 2008
	7	10. February 2023		6	10. February 2023	EA-9C102.27A		19. 12. 2008
	8	10. February 2023		7	10. February 2023	EA-9C102.27B		12. 10. 2010
	9	10. February 2023		8	10. February 2023	EA-9C102.27C		12. 08. 2022
	10	10. February 2023	91	1	10. February 2023	EA-93102.28		26. 04. 2011
	11	10. February 2023		2	10. February 2023	EA-93102.29		26. 04. 2011
	12	10. February 2023		3	10. February 2023	EA-9C102.30		05. 05. 2008
	13	10. February 2023		4	10. February 2023	EA-9C102.30B		26. 07. 2021
	14	10. February 2023		5	10. February 2023	EA-96102.31A		26. 07. 2021
	15	10. February 2023		6	10. February 2023	EA-93102.33		31. 01. 2006
	16	10. February 2023	EA-9C102B		30. 05. 2011	EA-93102.34		10. 02. 2006
	17	10. February 2023	EA-9C102C		05. 09. 2011	EA-9D102.34A		29. 07. 2013
	18	10. February 2023	EA-9C102D		02. 09. 2013	EA-9D102.34B		03. 03. 2016
78	1	10. February 2023	EA-9C102E		14. 03. 2014	EA-93102.41A		18. 10. 2006
	2	10. February 2023	EA-9C102G		25. 06. 2021	EA-93102.42		25. 04. 2009
	3	10. February 2023	EA-9C102H		25. 04. 2022	EA-9D102.42A		22. 07. 2012
	4	10. February 2023	EA-9C102.2		05. 05. 2008	EA-9D102.42B		06. 10. 2022
	5	10. February 2023	EA-9C102.2A		11. 07. 2008	EA-93102.43		24. 10. 2006
	6	10. February 2023	EA-9C102.2B		26. 07. 2021	EA-9C102.44A		17. 11. 2016
	7	10. February 2023	EA-9C102.2C		06. 10. 2022	EA-9C102.44B		16. 05. 2022
	8	10. February 2023	EA-9C102.3B		06. 01. 2023	EA-96102.49		07. 11. 2013
	9	10. February 2023	EA-9C102.4		05. 05. 2008	EA-96102.49A		28. 11. 2018
	10	10. February 2023	EA-9C102.4A		12. 10. 2010	EA-9C102.52-1		28. 11. 2018
	11	10. February 2023	EA-9C102.4B		27. 02. 2016	EA-9C102.52-2		28. 11. 2018
	12	10. February 2023	EA-9C102.5A		04. 10. 2014	EA-9C102.55		26. 06. 2022
	13	10. February 2023	EA-94102.6		15. 02. 2006	EA-9C102.56		27. 06. 2016
	14	10. February 2023	EA-9C102.7		05. 05. 2008	EA-9C102.58		21. 11. 2011
	15	10. February 2023	EA-9C102.7A		19. 12. 2008	EA-9D102.58A		29. 07. 2013
	16	10. February 2023	EA-9C102.7B		12. 08. 2022	EA-93102.59		09. 05. 2011
	17	10. February 2023	EA-9C102.8		05. 05. 2008	EA-9C102.69		04. 10. 2014
	18	10. February 2023	EA-9C102.8A		19. 03. 2016	EA-9C102.78		07. 12. 2018
	19	10. February 2023	EA-9C102.9		05. 05. 2008	EA-9C102.79		26. 06. 2021
	20	10. February 2023	EA-9C102.9B		05. 08. 2010	EA-9C102.79A		08. 06. 2022
79	1	10. February 2023	EA-9C102.9C		22. 06. 2011	EA-9C102.80		06. 07. 2021
	2	10. February 2023	EA-9C102.9E		26. 07. 2021	EA-9C102.80A		02. 05. 2022
	3	10. February 2023	EA-9C102.9F-1		11. 07. 2022	EA-9C103.20		11. 07. 2022
	4	10. February 2023	EA-9C102.9F-2		11. 07. 2022	EA-9C103.21-1		08. 06. 2022
	5	10. February 2023	EA-9C102.10		05. 05. 2008	EA-9C103.21-2		08. 06. 2022
	6	10. February 2023	EA-9C102.10A		19. 12. 2008	EA-9C103.22		06. 10. 2022
	7	10. February 2023	EA-9C102.10B		19. 03. 2016	EA-9C103.23		18. 05. 2022
	8	10. February 2023	EA-9C102.10C-1		12. 08. 2022	EA-9C103.24-1		28. 10. 2022
	9	10. February 2023	EA-9C102.10C-2		12. 08. 2022	EA-9C103.24-2		28. 10. 2022
	10	10. February 2023	EA-9C102.11		05. 05. 2008	EA-9C103.25		23. 05. 2022
	11	10. February 2023	EA-94102.14C		25. 02. 2011	EA-9C103.26		22. 05. 2022
	12	10. February 2023	EA-9C102.15		11. 04. 2011	EA-9C103.27		26. 06. 2022
	13	10. February 2023	EA-9C102.15B		27. 06. 2021			
	14	10. February 2023	EA-9C102.16		05. 05. 2008			
	15	10. February 2023	EA-9C102.16C		26. 07. 2021			
	16	10. February 2023	EA-9C102.16D		11. 07. 2022			
87	1	10. February 2023	EA-93102.18A		13. 07. 2005			
	2	10. February 2023	EA-93102.20A		24. 03. 2014			

List of Service Bulletins/Service Letters				
SB N° / SL N°	Issue Date	Subject	Serial N° affected	EASA AD N°

Magneto Start Booster: SlickSTART SS1001

- Operation, Maintenance and Troubleshooting Manual L-1492
- Service Bulletins

Manufacturer: UNISON INDUSTRIES
530 Blackhawk Part Avenue
Rockford, IL 61104, USA

Cleveland Wheels & Brakes

- Maintenance Manual
- Service Bulletins

Manufacturer: Parker Hannifin Corporation
1160 Center Road
Avon, Ohio 44011, USA

HOOKER HARNESS

- General Restraint System Installation Guidelines

Manufacturer: HOOKER HARNESS
324 East Stephenson Street
Freeport, Illinois 61032, USA

Pointer 3000-10 ELT

- Operation and Installation Instructions

Manufacturer: Pointer Avionics
76 Woolwich St. N.
PO Box 271
Breslau, Ontario
N0B 1M0, Canada

Artex ME406 ELT

- Description, Operation, Installation and Maintenance Manual ME406 and ME406HM ELT (P/N: 570-1600)

Manufacturer: Artex Aircraft Supplies
P.O. Box 1270
Canby, Oregon 97013

Kannad 406 AF ELT

- Installation and Operation Manual 406 AF-COMPACT ELT (P/N: DOC08038E Rev. 04)
- Initial Installation Manual 406 AF-INTEGRA ELT (P/N: DOC09081C Rev. 02)
- Operation Manual 406 AF-INTEGRA ELT (P/N: DOC09078C Rev. 02)

Manufacturer: Kannad Aviation (McMurdo Group)
Orolia SAS
Z.I. des 5 Chemins BP 23
56520 Guidel (F)

Electronics International MVP-50P

- Installation Instructions II 0425051 (Rev. I)
- Operating Instructions OI 1002051 (Rev. D)

Manufacturer: Electronics International Inc.
63296 Powell Butte Hwy
Bend, OR 97701

Garmin G3X Touch

- G3X Touch Installation Manual,
Doc.-N°. 190-01115-01, Rev. AP
(digital only, over 900 pages)

Manufacturer: Garmin International, Inc
1200 E. 151st Street
Olathe, KS 66062 USA
www.garmin.com

Other Vendor Equipment

(Vendor publication should be obtained directly from the vendor.)

- Operation- and Installation Manuals
- Service Bulletins

01-00-01

Trade Marks

Even when the ware or brand names used in this manual are not marked as registered trade-marks, this does not mean, that these names are free in the sens of trademark legislation.

01-10-00

SAFETY

To keep the security risks during the execution of the inspection and maintenance work as low as possible, observe the following points:

- Inspection and maintenance work has to be carried out only by qualified and authorized personnel.
- The execution has to be in accordance with the respective national safety requirements.
- Before beginning any work, this Maintenance Manual has to be read and understood. In case of doubt or lack of information the manufacturer has to be contacted for advice.
- The safety notes given in this manual are to be observed unconditionally.

Refer to Chapter 02-10-06 for information concerning safety notes.

05-00-00**GENERAL**

This chapter contains charts for time limits, scheduled maintenance and unscheduled maintenance, and enables licensed personnel to carry out correct inspections on the EXTRA 300/SC. The periodic inspections and checks described and their recommended time intervals are minimum requirements for maintaining the aircraft in an airworthy condition. Further information will be given by the information service (Service Bulletins, Service Letters, etc.).

If operation of aircraft requires more frequent servicing, the check intervals may be shortened. However the check intervals must not be exceeded without explicit permission from the regulatory authority. Additional checks as well as changes must also be agreed by the regulatory authority.

In general this Manual does not give any information about vendor equipment. Such information can be taken from the vendor equipment maintenance instructions (refer to Chapter 01). However for practicability reason most of the applicable vendor equipment inspections are incorporated in the following checklists. But it has to be noted that the latest editions of inspections given by the vendors remain decisive. So, before beginning an inspection, the inspections of vendor equipment presented here must be compared with the originals referenced under the respective headlines of the checklists, and, in case of doubt (e.g. if originals have changed before changes could be transferred to this Manual by the Revision Service), contact EXTRA-Flugzeugproduktions- und Vertriebs- GmbH for advice. The maintenance instructions referenced in the checklists are also valid if further inspection of vendor equipment is necessary.

NOTE**DANGER**

For working with checklists refer to Chapter 02-20-03.

Do not rotate the propeller nor allow any person to stay in the propeller operating area when performing an inspection or check with the master switch "ON" and the battery connected. The engine may be started unintentionally and may cause serious injuries or death.

05-10-00

TIME LIMIT COMPONENTS

05-10-01

General

All components not listed herein should be inspected as detailed in Chapter 05-20 „Maintenance Checks“ and repaired, overhauled as required. It is recommended that overhaul or replacement of components should be accomplished not later than the specified period of operation for that component or in accordance with the manufactures service data or airworthiness directives.

05-10-02

Overhaul Schedule

Items shown here must be overhauled at the times indicated.

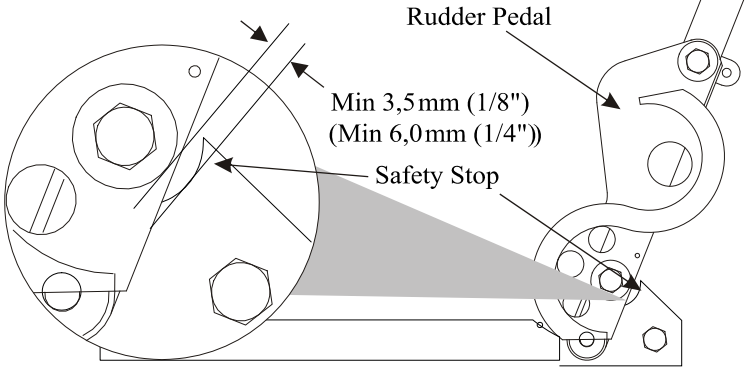
** refer to latest issue of
Manufacturer's Service Bulletin
and Maintenance and Overhaul
Manual*

*** Aerobatic Components
(inverted oil system),
Fuel Injector,
Mechanical Fuel Pump,
Starter,
Alternator,
Ignition System,
Oil Cooler*

*Refer to manufacturer's
overhaul information and
component maintenance manual
(if available).
If there is no specific information
on overhaul schedule, overhaul or
replacement of parts and systems
should be on condition.*

Item	Overhaul
Engine (Textron Lycoming)	*
Engine accessories**	together with engine
Magneto (Slick)	together with engine *
Propeller (MT-Propeller)	*
Governor (Woodward or MT-Propeller)	*
All other components	on condition

as specified each 50 hours each 100 hours			Date:	Inspector:		
			Serial No.:	Mechanic:		
Inspections						
		O	3	Check hardware; inspect for corrosion, check whether buckles mate properly. Check the buckles for easy opening.		
		O	4	Check ratchet assembly; inspect for corrosion, loss of plating, discoloration, slippage and wear; check for ease of operation. If the harness does not pass the check, it has to be reworked or replaced. Contact the harness manufacturer in case of doubt.		
		O	5	Check proper attachment of shoulder harness as per chapter 25-10-02.		
Fuel system						
	O	O	1	Inspect the fuel lines for leaks, security, chafing, dents and cracks. Replace fuel lines as required.		
	O	O	2	Inspect fuel selector valve for operation and proper pointer indication.		
	O	O	3	Drain fuel system.		
	O	O	4	Check acro- and center tank attachment.		
	O	O	5	Check acro-, center- and both wingtanks for leaks.		
	O	O	6	Check boost pump.		
	O	O	7	Check fuel filler caps for security and proper operation.		
	O	O	8	Check proper seat and condition of sealing lip.		
Flight controls						
	O	O	1	Remove wing access panels.		
	O	O	2	Inspect control surfaces for security of attachment, free movement, dents, delaminations and cracks. Inspect trim tab hinge attachment as per EXTRA SB-300-2-22.		
	O	O	3	Check spades visually for general condition. Inspect spade support for corrosion, cracks and deformations. Ensure proper attachment to aileron.		
	O	O	4	Inspect elevator trim system for proper operation and rigging.		
	O	O	5	Inspect hinges for condition, cracks and security; hinge bolts, hinge bearings, selflocking nuts.		

as specified each 50 hours each 100 hours			Date:	Inspector:
			SerialNo.:	Mechanic:
Inspections				
	O	O	6	Check free play in control system: torque tube, control surfaces, control stick, rod end bearing, deflector limiter.
O ¹	O	O	7	Lubricate rear torque tube bearing.
	O	O	8	Lubricate aileron rodend bearings, trim flap hinges and trim lever bolt.
	O	O	9	Inspect rudder control cables following the <i>Inspection Procedure</i> presented in Chapter 27-20-04.
		O	10	<p>Check for minimum 3.5 mm (1/8") clearance of rudder pedal versus safety stop when fully deflected for rudder cables having 50 h flight time minimum. On newly installed rudder cables the minimum spacing is 6 mm (1/4"). This check is to be performed with zero loading on the rudder pedals.</p> 
		O	11	Rough check of safety stop clearance. With a force of approx. 90 kg (200 lbs) acting on the fully deflected rudder pedal the safety stop shall not be reached. If the stop is reached the control system indicates a too high flexibility which needs to be traced. In this case contact EXTRA for advice.
	O	O	12	Inspect all flight control ventilation holes for obstruction.
		O	13	Visually inspect metal push/pull control rods for corrosion, cracks, or other visible damage, especially at their end fittings. In case of suspected cracks, remove push/pull control rod, strip the paint in the suspected area and carry out a detailed inspection using a magnifying glass (x10). Replace the related control rod in case a crack is found otherwise reapply surface treatment and reinstall push/pull control rod.

27-00-04

Torque Tube

Removal/Installation

- 1 Remove the respective access panels.
- 2 Remove the control stick and the respective rod per Chapters 27-00-01 and 27-00-03.
- 3 Loosen the bolts of the front and rear bearing blocks.
- 4 Disassemble the bearing blocks and remove the torque tube.
- 5 Reverse procedure to install the torque tube. Ensure that the lubrication hole of the rear bearing block is on the bottom. Lubricate the rear bearing with Aeroshell grease 22C or equivalent (MIL-PRF-81322F).

27-10-00

AILERONS

Description and Operation

(Refer to Figure 10) The aileron (1) is direct mechanical linked to the control stick (3) by the aileron center linkage (7) with spade arm, push-pull rods (4), bellcranks (5-6) and the torque tube (2). The bell cranks have two sealed ball bearings. Each aileron is mounted at four points in spherical bearings. For lightning protection reason each hinge arm is grounded to the corresponding attachment bracket at the aileron by bonding leads. The rod end bearings of the push-pull rods located in the wing are also interconnected by bonding leads. The travel stops are located at the torque tube.

To reduce pilot's hand forces the ailerons are equipped with spades. The hinge line of the ailerons is positioned at 25% of the aileron chord. In addition a shielded horn balance of 55% wing chord is provided at the tip of the aileron with a span of 250 mm.

Two access panels are located at the bottom surface of each side of the wing.

Removal/Installation

- 1 Disconnect the actuator rod from the aileron linkage.
- 2 Loosen the hinge bolts and the ground bonding leads and remove the bolts.
- 3 Install in reverse sequence of removal. Observe the second Note of Chapter 27-00-00 and Figure 4.

Rigging

Before beginning any adjustments inspect control rods, levers and hinges for signs of wear or damage, check if the control rod lengths correspond with the measurements given in Chapter 27-00-01. If necessary replace parts and correct lengths.

Table of Contents

<i>Chapter</i>	<i>Title</i>	
31-10-00	INSTRUMENT PANEL	5
<i>Figure 1</i>	<i>Instrument Panel</i>	<i>6</i>
<i>Figure 2</i>	<i>Switches, Light, and Circuit breakers</i>	<i>6</i>
31-60	CENTRAL DISPLAY SYSTEMS (EFIS)	9
31-60-10	Garmin G3X Touch	9
31-60-11	Garmin GDU 450	9
<i>Figure 3</i>	<i>Garmin GDU Removal/Installation</i>	<i>9</i>

Intentionally left blank

31-60

CENTRAL DISPLAY SYSTEMS (EFIS)

31-60-10

Garmin G3X Touch

Refer to Chapter 01 for maintenance information.

31-60-11

Garmin GDU 450

Refer to Figure 3. See also Chapter 31-10-00.

The Garmin GDU 450 (1) can optionally be installed in the instrument panel (2).

Removal/Installation

- 1 Remove four instrument screws (3).
- 2 Pull Garmin GDU (1) some centimeters out of the instrument panel (2).
- 3 Disconnect the electrical wiring.
- 4 Remove Garmin GDU
- 5 Install in reverse sequence of removal

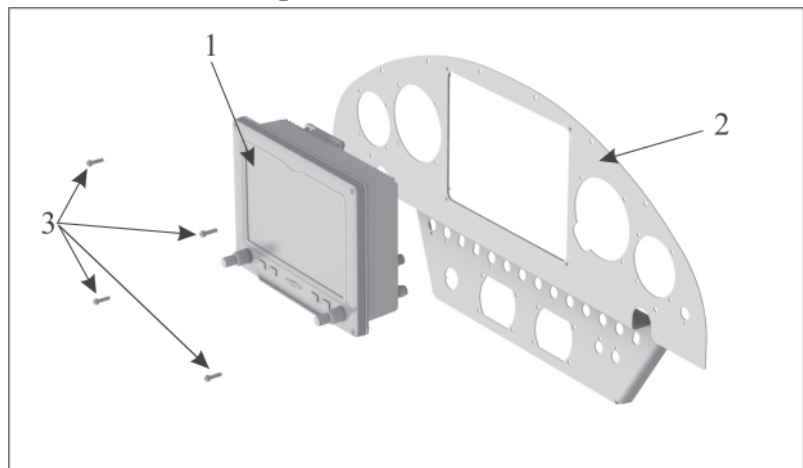
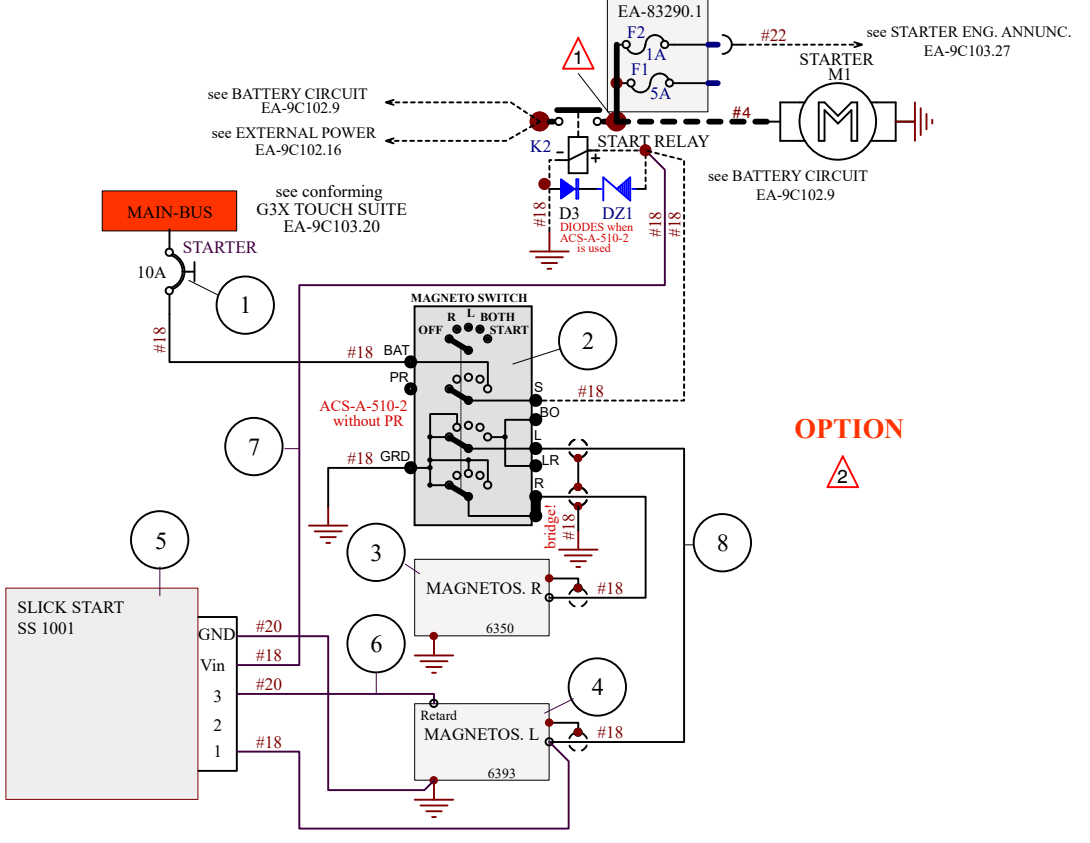
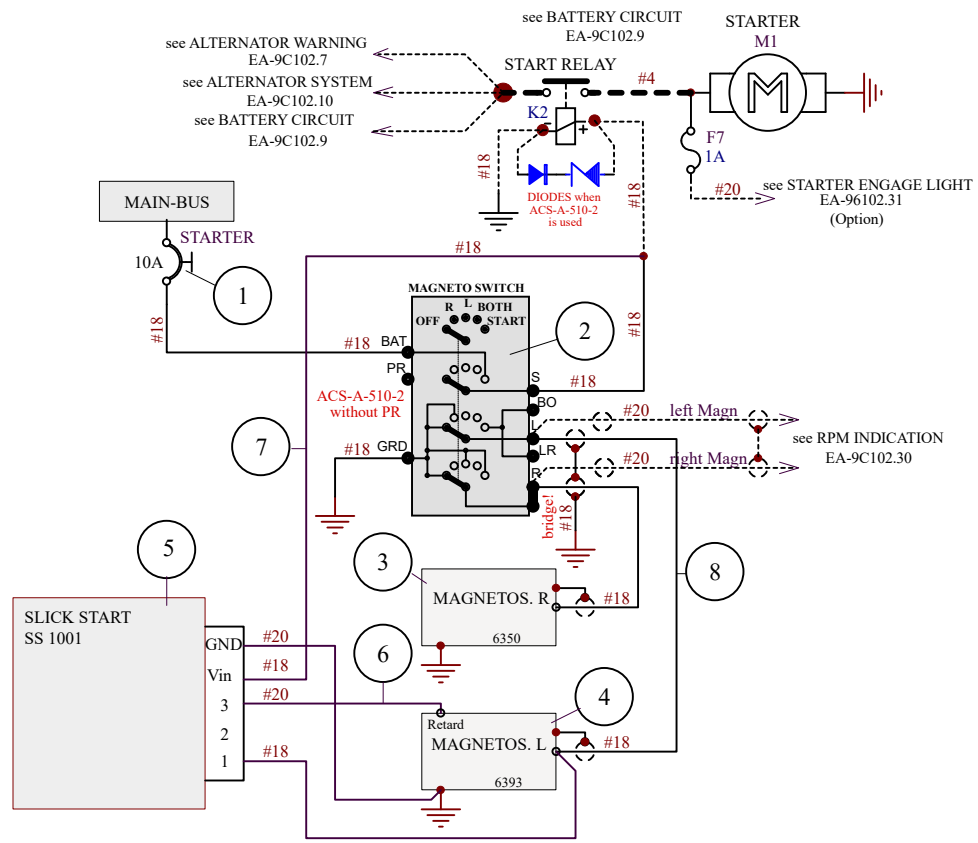


Figure 3

Garmin GDU Removal/Installation

Intentionally left blank



OPTION

⚠️ 2

	X	X	8	WIRE 1 x AWG 18 SHIELDED	MIL-C-27500-18TG				mtr	02199			
	X	X	7	WIRE AWG 18	MIL-W-22759/16-18				mtr	00776			
	X	X	6	WIRE AWG 20	MIL-W-22759/16-20				mtr	00775			
	1	1	5	SLICK START	SS 1001					32598			
	1	1	4	MAGNETO LEFT	6393					32860			
	1	1	3	MAGNETO RIGHT	6350					02377			
	1		2	MAGNETO SWITCH	A-510-2		Fa. ASC			35595			
		1	2	MAGNETO SWITCH	10-357200-1					00185			
	1	1	1	CIRCUIT BREAKER 10A	7277-2-10					31505			
04	03	02	01	Nr	Benennung	Teilekennzeichen	ZF	Werkstoff	Abmessungen	Menge	Einheit	Gewicht	MaWi-Nr.

- Notes:**
- ⚠️ 1 mounted between relay nut and cable lug
 - ⚠️ 2 Version when G3X is installed

Die Gültigkeitszuordnung von Version zu Flugzeugbaureihe ist der Bauakte bzw. dem jeweiligen Fertigungsauftrag zu entnehmen. Zuordnung links / rechts wird mit */* in allen Feldern angegeben.	Letzte Bearbeitung:		06.10.22	HW	Datum	05.05.08	Name	HW	Maßstab	auf	Projektion
	Bearb.:				Gepr.:				SI.-Klasse	Frei	Abtoleranz
	Gepr.:				Gepr.:				Oberflächenschutz	Oberfläche	
	Ver.-Bezeichnung		NR.: Änderung/Mod. Nr.:		Datum		Name		EA 300/SC MAGNETO SYSTEM EA-9C102.2		
EDV-Kennung:		EA3C0907CL1		Schwarze Heide 21		46569 Hünxe, Germany		A4			

Schutzvermerk nach DIN 34 beachten.

Intentionally left blank

Intentionally left blank

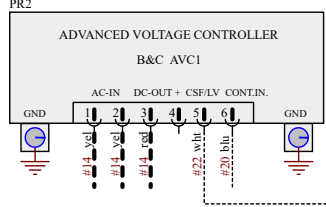
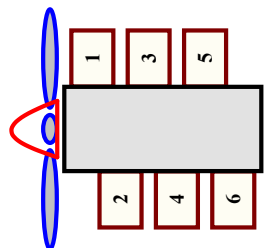
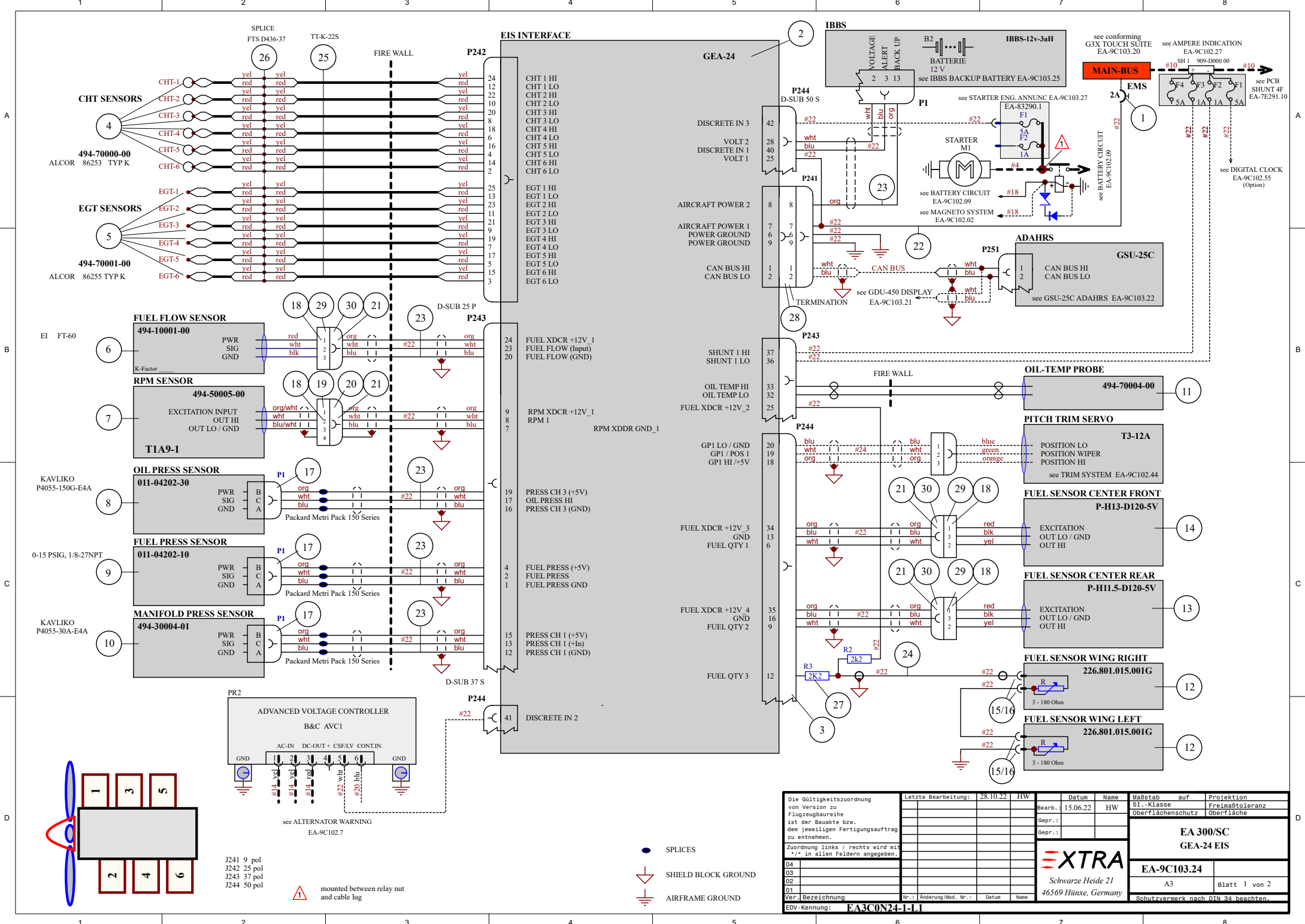
Intentionally left blank

Intentionally left blank

Intentionally left blank

Intentionally left blank

Intentionally left blank



see ALTERNATOR WARNING
EA-9C102.7

J241 9 pol
J242 25 pol
J243 37 pol
J244 50 pol

▲ mounted between relay nut and cable lug

- SPLICES
- ⏏ SHIELD BLOCK GROUND
- ⏏ AIRFRAME GROUND

Die Gültigkeitszuordnung von Version zu Flugzeugbaureihe ist der Bauakte bzw. dem jeweiligen Fertigungsauftrag zu entnehmen. Zuordnung links / rechts wird mit +/- in allen Feldern angegeben.	Letzte Bearbeitung:	28.10.22	HW	Datum	15.06.22	Name	HW	Maßstab	auf	Projektion
	Bearb.:	15.06.22	HW	Gepr.:				SI-Klasse	Freimaßtoleranz	
	Gepr.:							Oberflächenschutz	Freimaßtoleranz	
								Oberflächenschutz	Freimaßtoleranz	
EA 300/SC										
GEA-24 EIS										
EA-9C103.24										
A3 Blatt 1 von 2										
Schwarze Heide 21 46569 Hünxe, Germany										
Schutzvermerk nach DIN 34 beachten										

EDV-Kennung: EA30N24-1-L1

Intentionally left blank

Intentionally left blank
