	SB-A500A-3400-02	Revision: --
		Type: EA 400
Model: EA 400-500		
Project: A500A-22-01		
Date: 20. Nov. 2023		
Design Organisation EASA.21J.551		

-MANDATORY-

SERVICE BULLETIN

AVIDYNE SW R 9-4-2 & AXP322

Contents

1. Subject	3
2. Affected Aircraft	3
3. Approval	3
4. Compliance Instructions	3
5. Pre-change configuration	3
6. Instructions and material requirements	3
7. Weight and balance	4
8. Electrical load analysis	4
9. Operating instructions	4
10. Equipment List	4
11. Instructions for continued airworthiness	4
12. Effectivity date	4
13. Installation check-out log	5
13.1. Continued airworthiness data	6
13.2. Installed configuration	6
13.3. A/C Documentation checks	6
13.4. Installation accomplishment statement.....	6

1. Subject

This Service Bulletin introduces modifications to improve the Extra 500 product and to add the ADS-B out function which allows for operation in ADS-B out required airspaces.

- Software update of Avidyne Entegra R9.3 to version 9.4.2
- SBAS functionality
- Avidyne AXP 322 transponder Installation and wiring modification
- Activation of ADS-B out capability
- 2 Aircraft flight manual supplements
- Updated Equipment List and W&B data
- Updated Electrical load analysis

A comprehensive listing of software changes included in the new Avidyne Entegra R9.4.2 version will be given by the installation instructions within the engineering order EO-A500A-3400-01.

2. Affected Aircraft

All EA400-500 (Extra500), see also chapter 5 Pre-change configuration

3. Approval

“The technical content of this document is approved under the authority of the DOA ref. EASA.21J.551.”

The modification has been approved under EASA TC Change Approval No. 10083304, dated 17.November 2023.

4. Compliance Instructions

Due to the highspeed Extra500 is mostly IFR operated in airspaces dedicated for transport category aircraft SST considers **mandatory** compliance with this Service Bulletin.

5. Pre-change configuration

Eligible aircraft are configured as follows:

- The pre-mod software version installed is either 9.3, 9.3.1, 9.3.2 or 9.3.3 (service bulletin: SB-A500A-3140-01).
- IFD wiring modification (service bulletin: SB-A500A-3400-01) has been applied.

6. Instructions and material requirements

Refer to engineering order EO-A500A-3400-01 for installation instructions of the new software R 9.4.2 and of the new AXP322 transponder.

7. Weight and balance

Refer to engineering order EO-A500A-3400-01.

8. Electrical load analysis

Refer to updated electrical loads analysis ELA-A500A-2400-01 Rev --.

9. Operating instructions

Refer to aircraft flight manual supplement AFMS-A500A-3401-01_Issue 2-0 for operation of the Avidyne Entegra R9.4.2 version.

Refer to aircraft flight manual supplement AFMS-A500A-3400-01_Issue 0-0 for operation of the Avidyne AXP322 transponder.

Refer also to revised aircraft flight manual AFM-A500A-0210-01_Issue 3-0 introducing the above AFM Supplements.

10. Equipment List


Refer to updated equipment list EQL-A500A-0210-01 Rev 05.

11. Instructions for continued airworthiness

No change.

12. Effectivity date

This Service Bulletin becomes effective at the date of issuance.

 EASA.21J.551	SB-A500A-3400-02 AVIDYNE SW R 9-4-2	Rev.:	--
		20. Nov. 2023	

13. Installation check-out log

Submit a signed copy of the following page to:

support@sst-flugtechnik.com

SST FLUGTECHNIK GmbH
tel. +49-8331-972980
Am Flughafen 12a
D-87766 Memmingerberg

For occurrence reporting refer to

<https://eccairsportal.jrc.ec.europa.eu/index.php?id=2>

and

<http://www.aviationreporting.eu/AviationReporting/>

and to SST directly:

[Occurrence Report - SST Flugtechnik \(sst-flugtechnik.com\)](http://www.sst-flugtechnik.com)

13.1. Continued airworthiness data

INSTALLING AGENCY		AIRCRAFT OWNER	
Name:		Name:	
Organisation No.:		Postal Address:	
Contact Person:			
Postal Address:		Telephone No.:	
		E-Mail:	
Telephone No.:		MODIFIED AIRCRAFT	
E-Mail:		Aircraft Type:	
Date of installation:		Aircraft Model:	
		Serial Number:	
		Registration:	

13.2. Installed configuration

CONFIGURATION/TYPE DESIGN REFERENCE:	
Engineering Order	EO-A500A-3400-01 Rev --

13.3. A/C Documentation checks

- | | |
|---------------------------------|---|
| Equip List | <input type="checkbox"/> Equipment List updated. |
| W&B | <input type="checkbox"/> Weight and Balance record updated. |
| Electrical Load Analysis | <input type="checkbox"/> Electrical Load Analysis updated. |
| AFM(S) | <input type="checkbox"/> AFM(S) completed and inserted (all). |
| SB / EO | <input type="checkbox"/> Service Bulletin & Engineering Order inserted. |

13.4. Installation accomplishment statement

I hereby confirm

- that all conditions and requirements set forth in this Service Bulletin are met;
- that the installation and check-out instructions of this Service Bulletin have been followed;
- that the information provided in this check-out log is complete and correct.

Date

Name in block letters

Signature