


REV	A	APPLICATION			REVISIONS		
		PRODUCT LINE	REV	DESCRIPTION	DATE	APPROVED	APPROVED
SH	1	IDU-III	A	Initial Release per DCA W6279	07/11/07	R. DURALL	L..EVANS
DWG. NO.	150-045078						

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APPROVALS		DATE		TITLE: MANDATORY SERVICE BULLETIN WSB IDU-III-22 (GPS REPLACEMENT)		
DRAWN	ROBERT DURALL	07/11/07				
CHECKED	DEAN BOSTON	07/11/07				
PRODUCT MANAGER	---	---				
ENGINEER	DEAN BOSTON	07/11/07	SIZE	CAGE CODE	DWG NO.	REV
ISSUED	LESLIE EVANS	07/11/07	A	1B7G3	150-045078	A
Typed signatures indicate approval. Handwritten signature approval of this document is on file at Wulfsberg Electronics, Prescott, Arizona.			SCALE: NONE		DO NOT SCALE DRAWING	



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MANDATORY SERVICE BULLETIN

EQUIPMENT: IDU-III

DATE: 11 July, 2007

BULLETIN NUMBER: WSB IDU-III-22 Revision A

EFFECTIVITY

This mandatory service bulletin applies to the following:

LRU P/N

84100-02-0303 or earlier as installed in FAA STCs SA02203AK, SA02232AK, SA02254AK, SA02220AK, SR02238AK, SR02209AK, SR02230AK, SR01673SE, and TCCA STC SH06-6.

REASON

This service bulletin allows the upgrade or replacement of the FreeFlight GPS/WAAS receiver P/N 84100-02-0303 or earlier with new P/N 84100-0[x]-0304.

DESCRIPTION

Remove or upgrade the FreeFlight GPS/WAAS receiver P/N 84100-02-0303 or earlier and replace with receiver P/N 84100-0[x]-0304 per FreeFlight Service Bulletin 84100-02-00-04.

COMPLIANCE

Mandatory.

WARRANTY INFORMATION

Refer to FreeFlight Service Bulletin 84100-02-00-04.

APPROVAL

This modification to the installation is approved by the FAA.

MANPOWER

Refer to FreeFlight Service Bulletin 84100-02-00-04.

REFERENCES

Chelton Flight Systems Installation Instructions, 150-045264 and 150-045057; FreeFlight Installation Manual, 84143-01; FreeFlight Addendum to Equipment Installation Manual, 84739; FreeFlight Service Bulletin 84100-02-00-04; and applicable Airframe or Rotorcraft ICA and FMS.

MATERIAL INFORMATION

Item 1 is available from FreeFlight Systems Technical Support at (254) 662-0000.

NOTE: Contact FreeFlight Systems Technical Support with part number, serial number, and aircraft tail number prior to start of maintenance.

Items 2 and 3 are available from Chelton Flight Systems web site www.cheltonfs.com/dlr_login.php or by contacting Chelton Flight Systems Technical Support at (208) 389-9959.

PARTS REQUIRED

ITEM	QTY	U/M	PART NUMBER	DESCRIPTION
1	1	ea	84100-0[x]-0304	FreeFlight GPS/WAAS 1201 Sensor
2	1	ea	Various (See Below)	Instructions for Continued Airworthiness
			150-045261, Rev W	STC SA02203AK
			150-045055, Rev E	STC SA02254AK
			150-045005, Rev J	STC SA02220AK
			150-045008, Rev G	STC SA02232AK
			150-045284, Rev J	STC SR02209AK, SR02230AK, SR02238AK, SR01673SE, TCCA STC SH6-06
3	1	ea	Various (See Below)	Airplane or Rotorcraft Flight Manual Supplement
			150-045262, Rev E	STC SA02203AK
			150-045262-K400, Rev B	STC SA02203AK with KFC-400 Interface
			150-045054, Rev C	STC SA02254AK (Single, Dual Screen)
			150-045084, Rev B	STC SA02254AK (4-6 Screen)
			150-045006, Rev E	STC SA02220AK (Single, Dual Screen)
			150-045076, Rev B	STC SA02220AK (4-6 Screen)
			150-045007, Rev C	STC SA02232AK

MODIFICATION PROCEDURE

1. Remove power from aircraft.
2. Pull GPS circuit breaker.
3. Gain access to GPS receiver and remove J1 (DB-25) and J2 (TNC) connectors.
4. Remove all mounting hardware and save for replacement.
5. Remove GPS receiver and return to FreeFlight Systems or modify per FreeFlight Service Bulletin 84100-02-00-04.

6. Install new or modified GPS receiver with hardware from step 4.
7. Install J2 (TNC) and J1 (DB-25) connectors on unit.
8. Replace all access panels and equipment removed for access in step 3.
9. Reset GPS circuit breaker.

TESTING PROCEDURE

1. Locate aircraft in area that allows GPS antenna full access to the sky.
2. Apply ground power to aircraft.
3. Turn on EFIS system.
4. Verify the IDUs display the "INITIALIZING", "TESTING", and status screen. Press any key to continue after verification of system.
5. Verify the "NO GPS" flag is removed on all of the IDUs.
6. If the "NO GPS" or "DR ##.##", or "GPS LOI" flag is present, access the *FAULTS* menu on the MFD and determine the cause of the fault (Refer to EFIS System Installation Manual 150-045264, System Installation Manual Commuter and Large Aircraft 150-045057, or the Instruction for Continued Airworthiness "Troubleshooting" section for additional details).

NOTE: *It may take between 5 to 30 minutes to acquire an almanac after installation.*

NOTE: *GPS and WAAS satellite status items will vary due to location of aircraft, time of day, and objects near the aircraft (buildings, hills, etc.).*

7. Remove power from EFIS and secure aircraft.

DOCUMENTATION

1. Document completion of this Service Bulletin in the aircraft maintenance log book.
2. Provide to the aircraft owner/operator a copy of the Airplane/Rotorcraft Flight Manual Supplement (AFMS/RFMS) (Item 3) and a copy of the Instructions for Continued Airworthiness (ICA) (Item 2) appropriate to the STC.