


REV	APPLICATION			REVISIONS		
	PRODUCT LINE	REV	DESCRIPTION	DATE	APPROVED	APPROVED
SH 1	IDU-III	A	Initial Release per DCN W3043	10/10/03	V.WALLACE	R.DURALL
		B	Update Compliance and Approval per DCN W3152	11/13/03	V. Wallace	R. DuRall

DWG. NO. 150-045965

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<p><b>APPROVALS</b></p>		<p><b>DATE</b></p>	 <p><b>Wulfsberg Electronics</b> <i>A Chelton Group Company</i></p>			
<p>DRAWN ROBERT DURALL</p>		<p>10/10/03</p>	<p>TITLE:</p> <p><b>SERVICE BULLETIN WSB IDU-III-7</b> <b>(GPS REPLACEMENT)</b></p>			
<p>CHECKED ROBERT DURALL</p>		<p>10/10/03</p>				
<p>PRODUCT MANAGER</p>						
<p>ENGINEER ROBERT DURALL</p>		<p>10/10/03</p>	<p>SIZE A</p>	<p>CAGE CODE <b>1B7G3</b></p>	<p>DWG NO. <b>150-045965</b></p>	<p>REV <b>B</b></p>
<p>ISSUED VERN WALLACE</p>		<p>10/10/03</p>	<p>SCALE: NONE</p>		<p>DO NOT SCALE DRAWING</p>	
<p>Typed signatures indicate approval. Handwritten signature approval of this document is on file at Wulfsberg Electronics, Prescott, Arizona.</p>						



**Wulfsberg Electronics**  
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## **SERVICE BULLETIN**

**EQUIPMENT:** IDU-III

**DATE:** November 13,2003

**BULLETIN NUMBER:** WSB IDU-III-7 Revision B

### **EFFECTIVITY**

This service bulletin applies to the following:

LRU P/N

84100-01-[ ]

### **REASON**

This service bulletin allows replacement of the FreeFlight GPS/WAAS receiver P/N 84100-01-[ ] with new P/N 84100-02-[ ].

### **DESCRIPTION**

Remove FreeFlight GPS/WAAS receiver P/N 84100-01-[ ] and replace with receiver P/N 84100-02-[ ].

### **COMPLIANCE**

Mandatory.

### **WARRANTY INFORMATION**

This modification is an enhancement and is not covered under warranty.

### **APPROVAL**

This modification is approved by TSO.

### **MANPOWER**

Not Applicable.

### **REFERENCES**

Chelton Flight Systems Installation Instructions, 150-045264 and FreeFlight Installation Manual, 84143-01.

## **MATERIAL INFORMATION**

The parts required for this Service Bulletin are 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.

## **PARTS REQUIRED**

<b>ITEM</b>	<b>QTY</b>	<b>U/M</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>	<b>REF</b>
1	1	ea	84100-02-[ ]	FreeFlight GPS/WAAS 1201 Sensor	M9512

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

## **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 Installation Manual 150-045264, 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.