


REV A	APPLICATION			REVISIONS		
	PRODUCT LINE	REV	DESCRIPTION	DATE	APPROVED	APPROVED
SH 1	IDU-III	A	Initial Release per DCN W2815	3-3-05	R. Durall	Cindi Baker
DWG. NO. 150-045285						

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APPROVALS		DATE		TITLE: SERVICE INSTRUCTION WSI IDU-III-2 (ENCODER KNOB REPLACEMENT)			
DRAWN	Leslie Evans	2/22/05					
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ISSUED	R. Talken	3-3-05		SIZE A	CAGE CODE 1B7G3	DWG NO. 150-045285	REV 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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SERVICE INSTRUCTION

EQUIPMENT: IDU-III

DATE: 03-03-2005

INSTRUCTION NUMBER: WSI IDU-III-2 Revision A

EFFECTIVITY

This service instruction applies to the following:

LRU P/N	HDWR Mod	SWID
401-045500-[]	0101	ALL

REASON

This modification replaces the original encoder knobs with new knobs. The original knobs have a tendency to slide on the encoder shaft when pressing on the knob, causing the "Enter" function or the button dimming function not to work after time.

DESCRIPTION

Remove old knobs (Rev A) and install new knobs (Rev B or higher).

COMPLIANCE

Recommended.

WARRANTY INFORMATION

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

APPROVAL

This modification does not affect the original approval.

MANPOWER

Not Applicable.

REFERENCES

System Installation Instructions, 150-045264.

MATERIAL INFORMATION

The parts required to modify this unit in accordance with this Service Bulletin are available from Chelton Flight Systems at (208) 389-9959.

PARTS REQUIRED

ITEM	QTY	U/M	PART NUMBER	DESCRIPTION	REF
1	1	ea	180-045101-01 Rev B or later	ENCODER KNOB, LEFT IDU-III	Fig. 2
2	1	ea	180-045102-01 Rev B or later	ENCODER KNOB, RIGHT IDU-III	Fig. 2
3*	REF	REF	177-045027	KNOB RETAINING COLLAR	

*Supplied w/knobs, but may be ordered separately if required.

MODIFICATION PROCEDURE

CAUTION

ANY DISASSEMBLY/ASSEMBLY OF THIS UNIT MUST BE DONE AT A STATIC SAFE WORKSTATION. REMOVED MODULES SHOULD BE PLACED IN ANTISTATIC BAGS WHEN NOT INSTALLED IN THE UNIT.

NOTE: *It is not required to remove the IDU from the tray to perform this modification.*

IDU MODIFICATION

1. Remove original right-hand knob (P/N 180-045102-01) by grasping the knob with fingers and pulling straight out from IDU. This knob has a smooth, plastic finish (see Figure 1).

NOTE: *Original retaining collar may stay on encoder shaft after knob is removed. Remove old collar as required.*

2. Install new retaining collar (Item 3, supplied with Item 2) into new right-hand knob (Item 2) (P/N 180-045102-01 Rev B or later).

NOTE: *Collar will be loose in knob until knob and collar are placed on the encoder shaft.*

3. Install new right-hand knob (Item 2) (P/N 180-045102-01 Rev B or later) by lining encoder key slot with knob and pushing knob until fully seated. This knob has a rubberized finish (see Figure 2).
4. Remove original left-hand knob (P/N 180-045101-01) by grasping the knob with fingers and pulling straight out from the IDU. This knob has a smooth, plastic finish (see Figure 1).

NOTE: *Original retaining collar may stay on encoder shaft after knob is removed. Remove old collar as required.*

5. Install new retaining collar (Item 3, supplied with Item 1) into new left-hand knob (Item 1) (P/N 180-045101-01).

NOTE: Collar will be loose in knob until knob and collar are placed on the encoder shaft.

6. Install new left-hand knob (Item 1) (P/N 180-045101-01 Rev B or later) by lining encoder key slot with knob and pushing knob until fully seated. This knob has a rubberized finish (see Figure 2).



Figure 1 Old style knobs

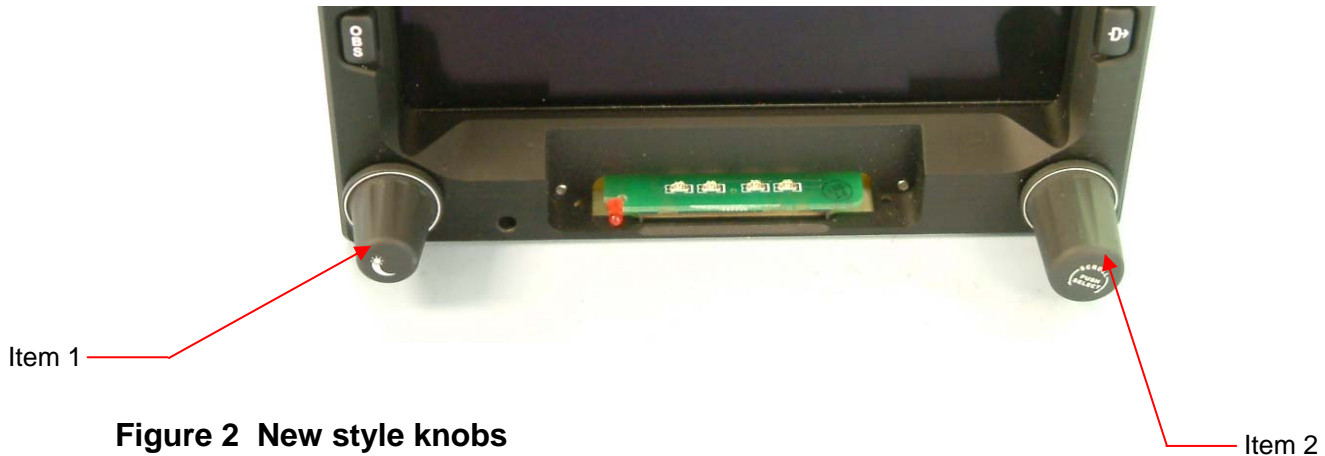


Figure 2 New style knobs

TESTING PROCEDURE

1. Apply power to IDU; verify IDU completes initialization and self test.
2. Press and turn left-hand encoder, verify button backlighting increases and decreases intensity as knob is turned.
3. Press the right-hand encoder; verify the IDU displays the PFD or MFD page.
4. (PFD) Rotate the right-hand encoder to change baro scale, then press the right-hand encoder and verify the changed baro scale is accepted. Proceed to step 7.
5. (MFD) Press the right-hand encoder and verify the IDU changes from the Navigation page to the PFD page.
6. (MFD) Press the right-hand encoder again and verify the IDU changes from the PFD page to the Navigation page.
7. Remove power from the IDU.