


REV A	APPLICATION			REVISIONS		
	PRODUCT LINE	REV	DESCRIPTION	DATE	APPROVED	APPROVED
SH 1	VN-411B	A	Initial Release per DCN W5286	6/19/06	D. Woodhurst	R. Wallace
DWG. NO. 150-01101-27						

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APPROVALS		DATE		TITLE: SERVICE INSTRUCTION WSI VN-411B-27 IMPROVE GLIDESLOPE AGC BOARD CLEARANCE AND REDUCE NOISE	
DRAWN Leslie Evans		6/19/06			
CHECKED Jay Jensen		6/19/06			
PRODUCT MANAGER Robert Evans		6/19/06			
ENGINEER Rich Wallace		6/19/06			
ISSUED Diana Woodhurst		6/19/06		SIZE A	CAGE CODE 1B7G3
				DWG NO. 150-01101-27	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	



Wulfsberg Electronics
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SERVICE INSTRUCTION

EQUIPMENT: VN-411B

DATE: June 19, 2006

SERVICE INSTRUCTION NUMBER: WSI VN-411B-27 Revision A

EFFECTIVITY

Effects PN 066-1101-xx identified with SN 42771 or below.

Units with any serial number above SN 42771 met compliance of this procedure at the time of manufacturing.

REASON

1. Improve separation between the AGC board components and adjoining Nav Receiver cover.
2. Reduce Glideslope Receiver noise levels.

DESCRIPTION

On the Glideslope Module (PN 200-07530-0000), reposition the existing AGC Board (PN 200-08123-0000), replace GS Receiver C27, and re-route the AGC Board wiring.

COMPLIANCE

As required.

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

VNS 41A Maintenance Manual, P/N 150-040973.

MATERIAL INFORMATION

The parts required to modify this unit in accordance with this procedure are available from Wulfsberg Electronics at (928) 708-1518.

PARTS REQUIRED

ITEM	QTY	U/M	PART NUMBER	DESCRIPTION	REF
1	1	EA	191-040968-32	STANDOFF, 4-40 X 3/16" HEX MALE-FEMALE, 1/4"	N/A
2	1	EA	210-00106-103	CAPACITOR, CERAMIC, CHIP, 1812, 200V, 10%, NPO/COG, .01uF	C27
3	A/R	A/R	16012-3	LOCTITE ACCEL(712) & BOND(444)	N/A
4	5	EA	013-00050-0006	BEAD, FERRITE, SHIELD CORE	N/A

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.

Open the VN-411B and gain access to the Glideslope Module (PN 200-07530-0000) per the Maintenance Manual. Perform the following modification:

Note: Unless otherwise noted, the sequence of rework can be adjusted to facilitate the process.

1. Remove the screw to detach the AGC board and remove the associated standoff from the GS module (Ref. Figure 1).
2. Remove existing C27 and discard.
3. Scrape away enough solder mask from the ground pad of C27 to accommodate Item 2 installation.
4. Install Item 2 in place of C27.
5. Install Item 1 (standoff) along with the pre-existing washers in place of the original standoff
6. Apply MIL-I-46058C compliant conformal coating to C27.
7. Reorient the AGC board as pictured in Figure 2 and secure it into place using the original screw.
8. Install Item 4 on each of the AGC board wires.
9. Position the orange wire so that it rests next to the fence as shown in Figure 2.
10. Reposition the remaining AGC wires and beads as illustrated in Figure 3.
11. Secure each wire to the board using Item 3.
12. Identify the unit with this procedure as described and reassemble the unit in reverse order of disassembly.

IDENTIFICATION PROCEDURE

Mark WSI-27 on the GS board.

TESTING PROCEDURE

Perform a complete functional test of the unit in accordance with the appropriate Maintenance Manual Return to Service procedure.

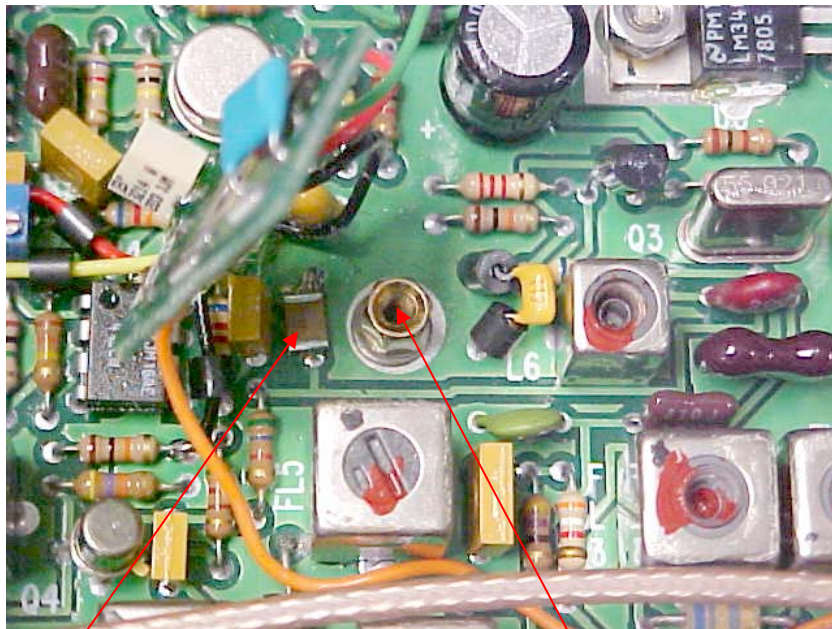


Figure 1

C27

Standoff

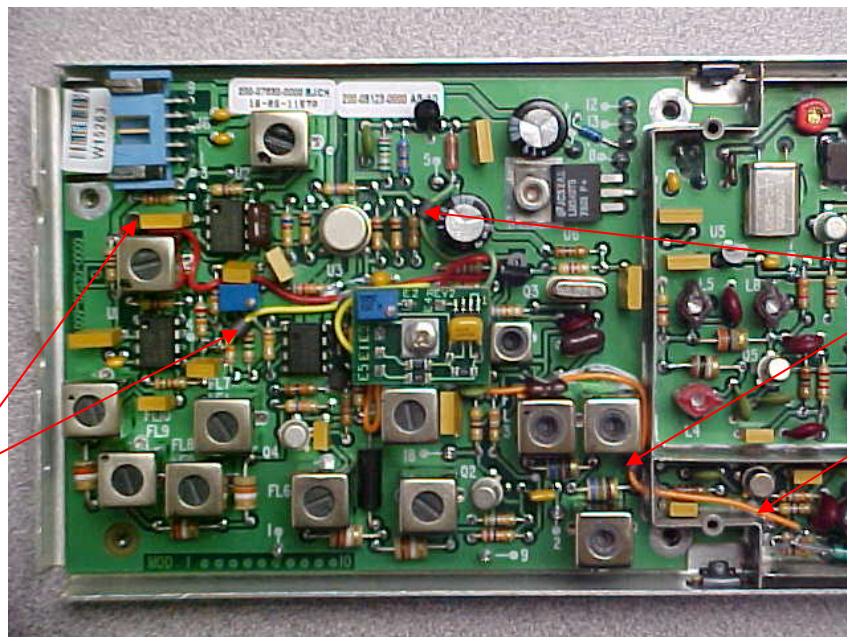


Figure 2

Item 4

Item 4

Orange Wire

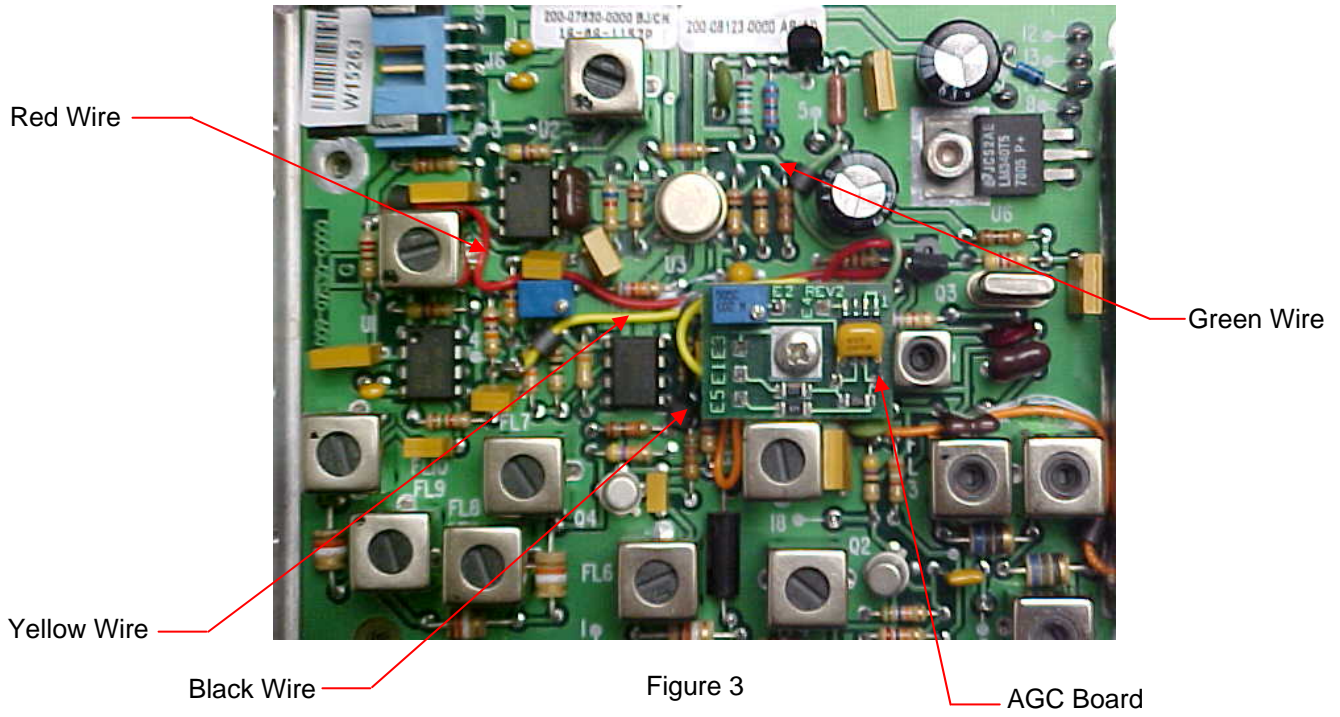


Figure 3