


REV	<b>APPLICATION</b>			<b>REVISIONS</b>			
	PRODUCT LINE	REV	DESCRIPTION	DATE	APPROVED	APPROVED	
SH	1	VC-401B	A	Initial Release on DCA W7952	03/12/09	J. Jensen	L. Andujo
			B	Revised per DCA W8092	04/22/09	J. Jensen	L. Andujo
DWG. NO.	150-042623-21						

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<p style="text-align: center;"><b>APPROVALS</b></p>		<p style="text-align: center;"><b>DATE</b></p>	 <p><b>Wulfsberg Electronics</b> A Chelton Group Company Prescott, AZ 86301 U.S.A.</p>			
DRAWN	Linda Bastedeaux	3/11/09	<p><b>TITLE:</b></p> <p style="text-align: center;"><b>SERVICE INSTRUCTION WSI VC-401B-M22-21 TO PREVENT OVERMOD AT LOW FREQUENCIES</b></p>			
CHECKED	Jay Jensen	3/11/09				
PRODUCT MANAGER	Jay Jensen	3/12/09				
ENGINEER	-		SIZE	CAGE CODE	DWG NO.	REV
ISSUED	Linda Andujo	3/12/09	A	<b>1B7G3</b>	<b>150-042623-21</b>	<b>B</b>
<p><b>Typed signatures indicate approval. Handwritten signature approval of this document is on file at Wulfsberg Electronics, Prescott, Arizona.</b></p>			SCALE: NONE		DO NOT SCALE DRAWING	

# SERVICE INSTRUCTION

**EQUIPMENT: VC-401B**

**DATE: 04/22/09**

**SERVICE INSTRUCTION NUMBER: WSI VC-401B-M22-21**

**Revision B**

## **EFFECTIVITY**

Affects VC-401B PN 066-1047-XX with Mod22 and identified with SN 51716 or below.  
Units with serial numbers above SN 51716 met compliance at the time of manufacturing.

## **REASON**

To prevent excessive modulation of the PA at low-end frequencies which varies by voice input modulation.

## **DESCRIPTION**

Install new resistor R410 between the un-terminated leg of CR3 and ground in the PA loop amplifier circuit.

## **COMPLIANCE**

Upon next scheduled maintenance.

## **WARRANTY INFORMATION**

Units still in the warranty period may be returned for installation of this modification under the terms of the warranty agreement. Units should be sent to:

Cobham Avionics  
Attn: Repair and Overhaul Department  
6400 Wilkinson Drive  
Prescott, Arizona 86301

## **APPROVAL**

This modification does not affect the original approval.

## **MANPOWER**

2.0 hours

## **REFERENCES**

VCS 40A Maintenance Manual, P/N 150-040631.

## **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**

<b>ITEM</b>	<b>QTY</b>	<b>U/M</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>	<b>REF</b>
1	1	EA	234-014791-1000	RESISTOR, CHIP 100 OHM, 1/8W, 1%	R410
2	AR	AR	16031-1	WIRE, 28AWG WIRE WRAP TEFLON	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 VC401 and gain access to the PA module (PN 300-040444) per the Maintenance Manual. Perform the following modification:

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

1. Solder a 100 ohm resistor (item 1, R410) to pin 1 of CR3.
2. Solder item 2 or equivalent from R410 to the ground side of C55.
3. Apply MIL-I-46058C compliant conformal coating to newly installed part(s).
4. Identify the unit with the procedure as described and reassemble the unit in reverse order of disassembly.

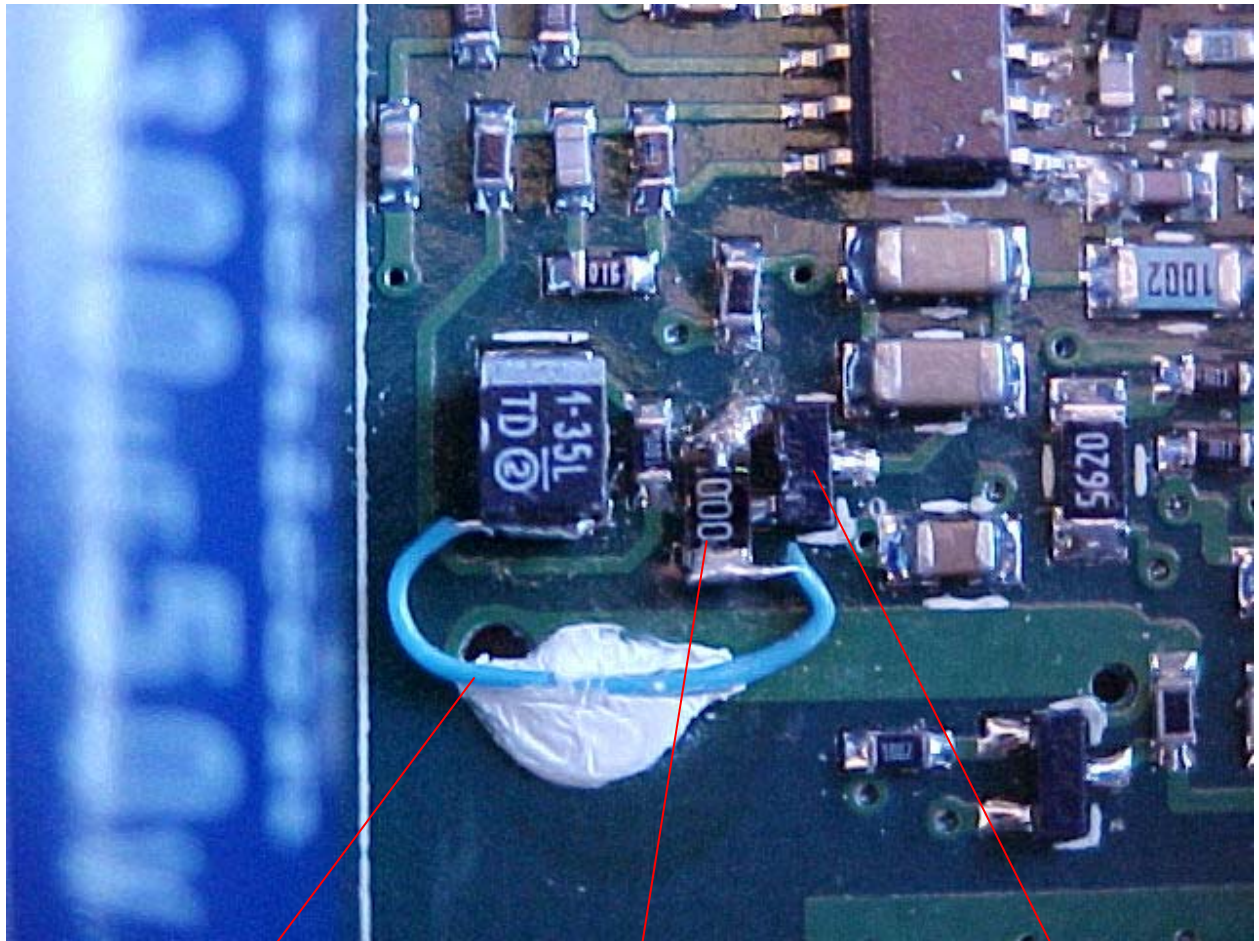
## **IDENTIFICATION PROCEDURE**

Mark 'WSI-21' on the PA board, P/N 300-040444.

Mark Mod **38** on the exterior mod label on VC-401B.

## **TESTING PROCEDURE**

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



ITEM 2

R410

CR3