


REV	APPLICATION			REVISIONS		
	PRODUCT LINE	REV	DESCRIPTION	DATE	APPROVED	APPROVED
SH	VC-401C	A	Initial Release per DCA W8092	04/22/09	Jay Jensen	L. Andujo
DWG. NO. 150-042676-14						

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<table border="1"> <tr> <td>APPROVALS</td> <td>DATE</td> </tr> <tr> <td>DRAWN Heath Flor</td> <td>04/22/09</td> </tr> <tr> <td>CHECKED Jay Jensen</td> <td>04/22/09</td> </tr> <tr> <td>PRODUCT MANAGER</td> <td></td> </tr> <tr> <td>ENGINEER -</td> <td></td> </tr> <tr> <td>ISSUED Linda Andujo</td> <td>04/22/09</td> </tr> </table>		APPROVALS	DATE	DRAWN Heath Flor	04/22/09	CHECKED Jay Jensen	04/22/09	PRODUCT MANAGER		ENGINEER -		ISSUED Linda Andujo	04/22/09	 <p>Wulfsberg Electronics A Chelton Group Company Prescott, AZ 86301 U.S.A.</p>	
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		TITLE: SERVICE INSTRUCTION WSI VC-401C-14 TO PREVENT OVERMOD AT LOW FREQUENCIES													
		SIZE A	CAGE CODE 1B7G3												
		DWG NO. 150-042676-14	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												

SERVICE INSTRUCTION

EQUIPMENT: VC-401C

DATE: 04/22/09

SERVICE INSTRUCTION NUMBER: WSI VC-401C-14

Revision A

EFFECTIVITY

Affects VC-401C PN 400-042000-XXXX identified with SN 51931 or below.

Units with serial numbers above SN 51931 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 40C Maintenance Manual, P/N 150-042000 as applicable.

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	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.

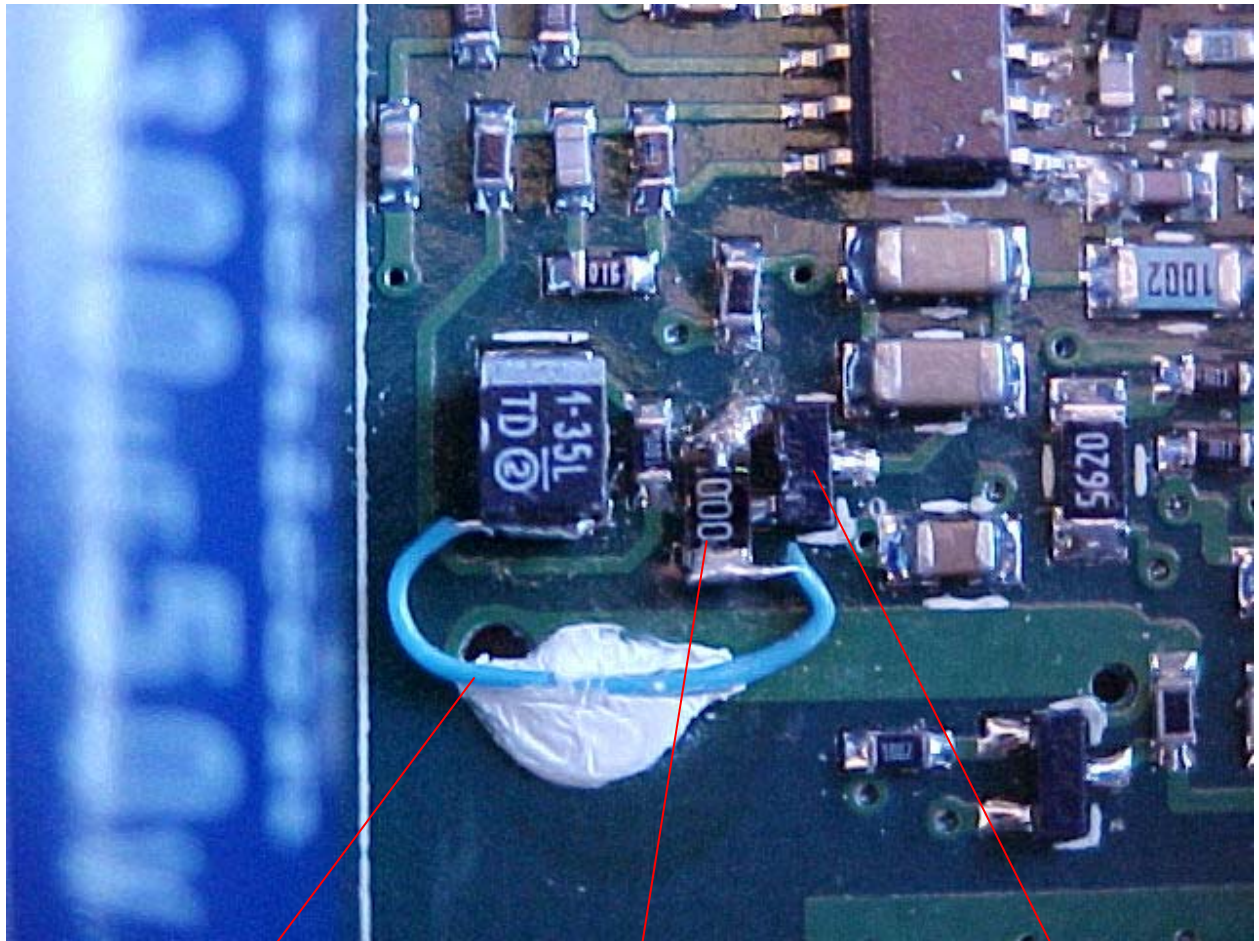
IDENTIFICATION PROCEDURE

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

Mark Mod 11 on the exterior mod label on VC-401C.

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