


REV	<b>APPLICATION</b>			<b>REVISIONS</b>		
	PRODUCT LINE	REV	DESCRIPTION	DATE	APPROVED	APPROVED
SH	CVC-151	A	Initial Release per DCA W7470	8/27/08	Jay Jensen	L. Andujo
DWG. NO. <b>150-048118</b>						

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		 <b>Wulfsberg Electronics</b> <i>A Chelton Group Company</i>	
<b>APPROVALS</b>	<b>DATE</b>		
DRAWN John Rodriguez	8/26/08	<b>SERVICE INSTRUCTION WSI CVC-151-07  IMPROVE P.A. PERFORMANCE AND TUNING</b>	
CHECKED Jay Jensen	8/26/08		
PRODUCT MANAGER -	-		
ENGINEER Mike May	8/27/08	SIZE A	CAGE CODE <b>1B7G3</b>
ISSUED L. Andujo	8/27/08	DWG NO. <b>150-048118</b>	REV <b>A</b>
<b>Typed signatures indicate approval. Handwritten signature approval of this document is on file at Wulfsberg Electronics, Prescott, Arizona.</b>		SCALE: NONE	DO NOT SCALE DRAWING



# SERVICE INSTRUCTION

**EQUIPMENT:** CVC-151

**DATE:** 8/27/08

**SERVICE INSTRUCTION NUMBER:** WSI CVC-151-07

**Revision A**

## **EFFECTIVITY**

Affects PN 400-048100-YYXX containing Power Amplifier modules with revision A/D or lower.

## **REASON**

To improve performance and ease of tuning of the Power Amplifier in 'Phase 1' radios.

## **DESCRIPTION**

Add C415 (tuning capacitor) and replace coil L414 and capacitor C415.

## **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:

Wulfsberg Electronics  
Attn: Repair and Overhaul Department  
6400 Wilkinson Drive  
Prescott, Arizona 86301

## **APPROVAL**

This modification does not affect the original approval.

## **MANPOWER**

Not applicable.

## **REFERENCES**

CVC-151 Maintenance Manual, P/N 150-044151.

## 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	118-116595-02	COIL, AIR, 0.16 ID, 2T, 18 AWG	L414
2	1	EA	201-016418-03	CAPACITOR, ADJ., 3-10pf SMD	C415
3	1	EA	210-1829-410	CAPACITOR, 47pf, PORCELAIN, CHIP, 500V, 5%,	C4100

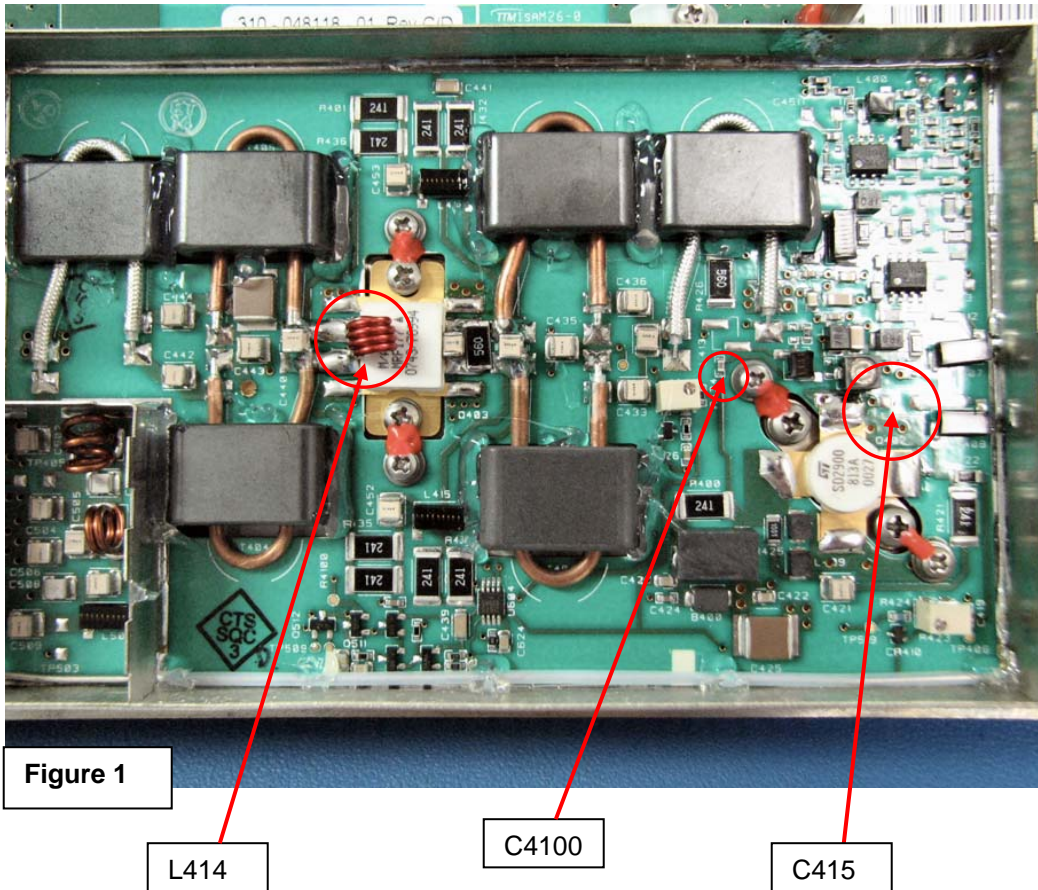
## MODIFICATION PROCEDURE

### 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.

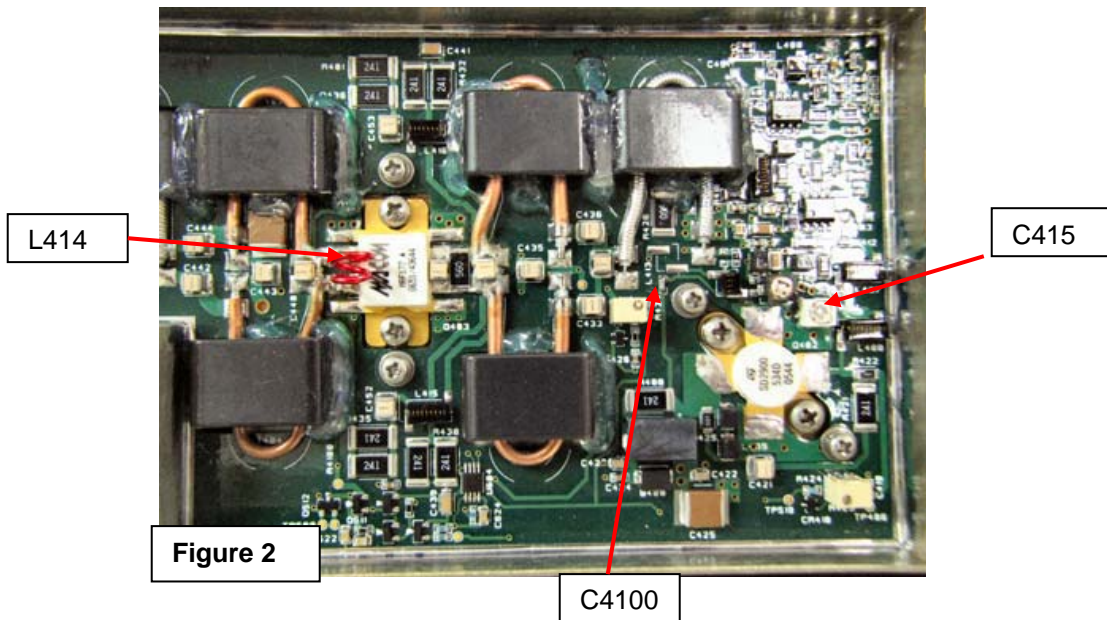
Open the CVC-151 and gain access to the power amplifier module (PN 300-048017) per the Maintenance Manual. Perform the following modification:

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



1. Remove L414 per Figure 1 and replace with item 1 (coil) per Figure 2.

2. Remove C4100 per Figure 1, scrape traces for preparation of new part and install item 3 (capacitor) per Figure 2.
3. Install, item 2 (C415) in location shown in Figure 2.



4. Apply MIL-I-46058C compliant conformal coating to newly installed part(s).
5. Identify the unit with the procedure as described and reassemble the unit in reverse order of disassembly.

### **IDENTIFICATION PROCEDURE**

Mark 'WSI-07' on the Power Amplifier board

### **TESTING PROCEDURE**

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