



Wulfsberg Electronics Division
A Chelton Group Company
6400 Wilkinson • Prescott, AZ 86301 • U.S.A.
Telephone: (520) 708-1550 • Fax: (520) 541-7627

Cognizant Engineer: 

DOES NOT CHANGE ORIGINAL APPROVAL

SERVICE BULLETIN

EQUIPMENT: C-5000

DATE: November 28, 1998

BULLETIN NUMBER: WSB C-5000-3

This bulletin supersedes all earlier versions.

EFFECTIVITY

C-5000 P/N 31300-0X01-1***, Mod 26 or below.

C-5000 P/N 31300-0X01-2***, Mod 22 or below.

C-5000 P/N 31300-0X01-3***, Hardware Mod 0.

(where X = 1, 2, 3, or 4, and * = 2 or 3 in at least one position)

REASON

Changes will improve CTCSS and DCS receives tone operation.

DESCRIPTION

This modification consists of removing a jumper, two capacitors, and a resistor, and adding a capacitor.

COMPLIANCE

Recommended at next scheduled maintenance period.

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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 Division
Attention: Repair and Overhaul Department
6400 Wilkinson Drive
Prescott, AZ 86301

APPROVAL

This modification does not affect the original approval.

REFERENCES

C-5000 Installation Manual, P/N 150-1355-000.

MODIFICATION PROCEDURE

This procedure assumes that modifications described in ECO nos. 124074 and 124958 have been incorporated

1. Remove the bottom cover of the C-5000 to access the interface boards. The bottom cover is secured to the chassis by eight Phillips-head screws, four located on the left side and four located on the right side of the unit. See Figure 1.

CAUTION

Any disassembly/assembly of the C-5000 must be done at a static-safe workstation. Removed modules should be placed in anti-static bags when not installed in the unit.

2. Remove the parallel interface board that has the CTCSS/DCS Tone Module installed. Parallel boards can be identified by the connector with three rows of pins (serial board connectors have two rows of pins).
3. Remove capacitors C16 and C17 and resistor R49 as shown in Figure 2B. Refer to Figure 3.
4. Add capacitor C29, P/N 096-01082-0046 (Item 1), positive side pointing toward Q2, as shown in Figure 2B. Refer to Figure 3.
5. Secure Item 2 to U3 using Tak Pak adhesive (Item 2) as shown in Figure 2B.

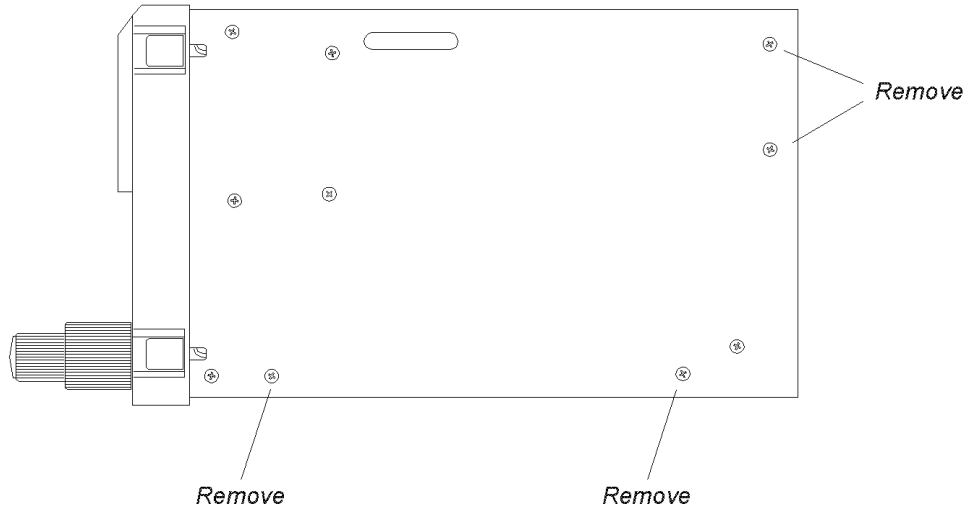


Figure 1. Screw Locations to Remove C-5000 Bottom Cover

6. Reinstall the parallel interface board. It should be returned to the same slot from which it was removed.
7. Reinstall the bottom cover.

IDENTIFICATION PROCEDURE

For a C-5000 P/N 31300-0X01-1***, stamp an X on the modification section of the Unit Serial Tag to indicate that Hardware Mod 27 is complete.

For a C-5000 P/N 31300-0X01-2***, stamp an X on the modification section of the Unit Serial Tag to indicate that Hardware Mod 23 is complete.

For a C-5000 P/N 31300-0X01-3***, stamp an X on the modification section of the Unit Serial Tag to indicate that Hardware Mod 1 is complete.

TESTING PROCEDURE

Perform a complete functional test of the unit in accordance with Section VI (System Checkout) of the Installation Manual.

In addition to the system checkout the Flexcomm system should be verified for proper DCS squelch operation by coupling a service monitor or a transmitter with DCS tone capability on to the antenna at an appropriate receiver sensitivity signal level. DCS squelch should operate properly for tone modulation above 100 Hz and below 1000 Hz deviation.

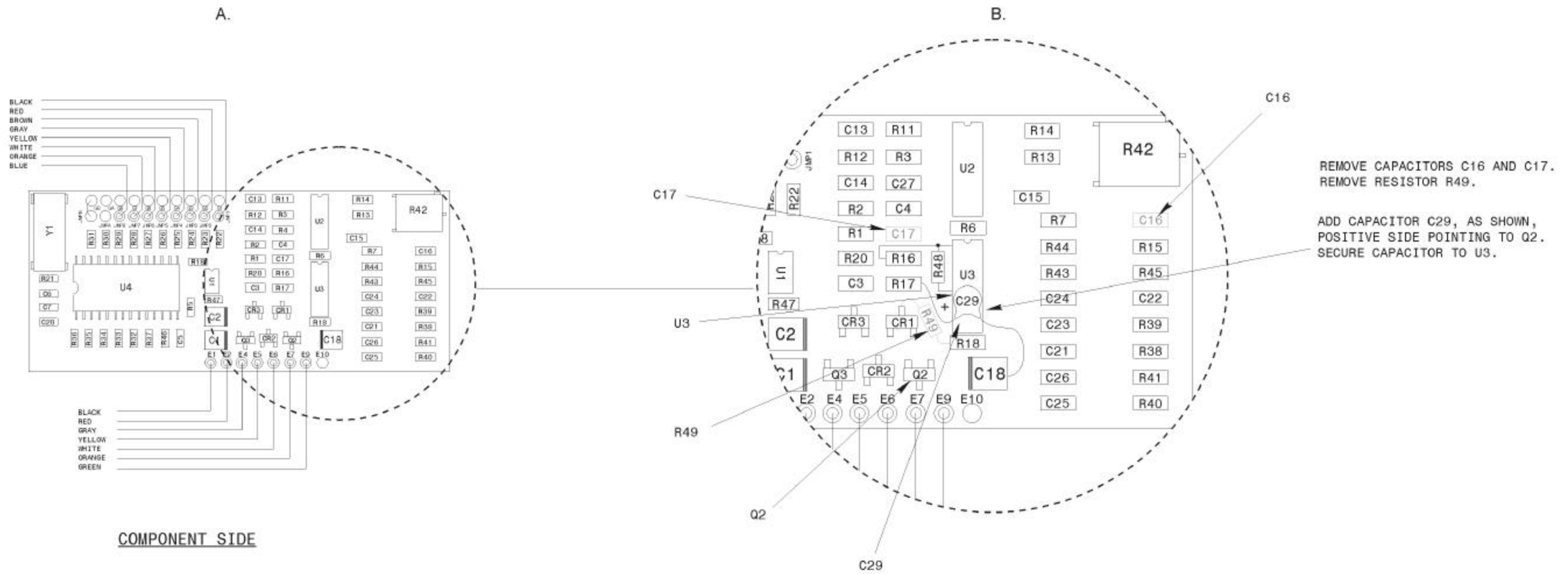


Figure 2. C-5000 CTCSS/DCS Tone Module 300-018390 Installation Drawing

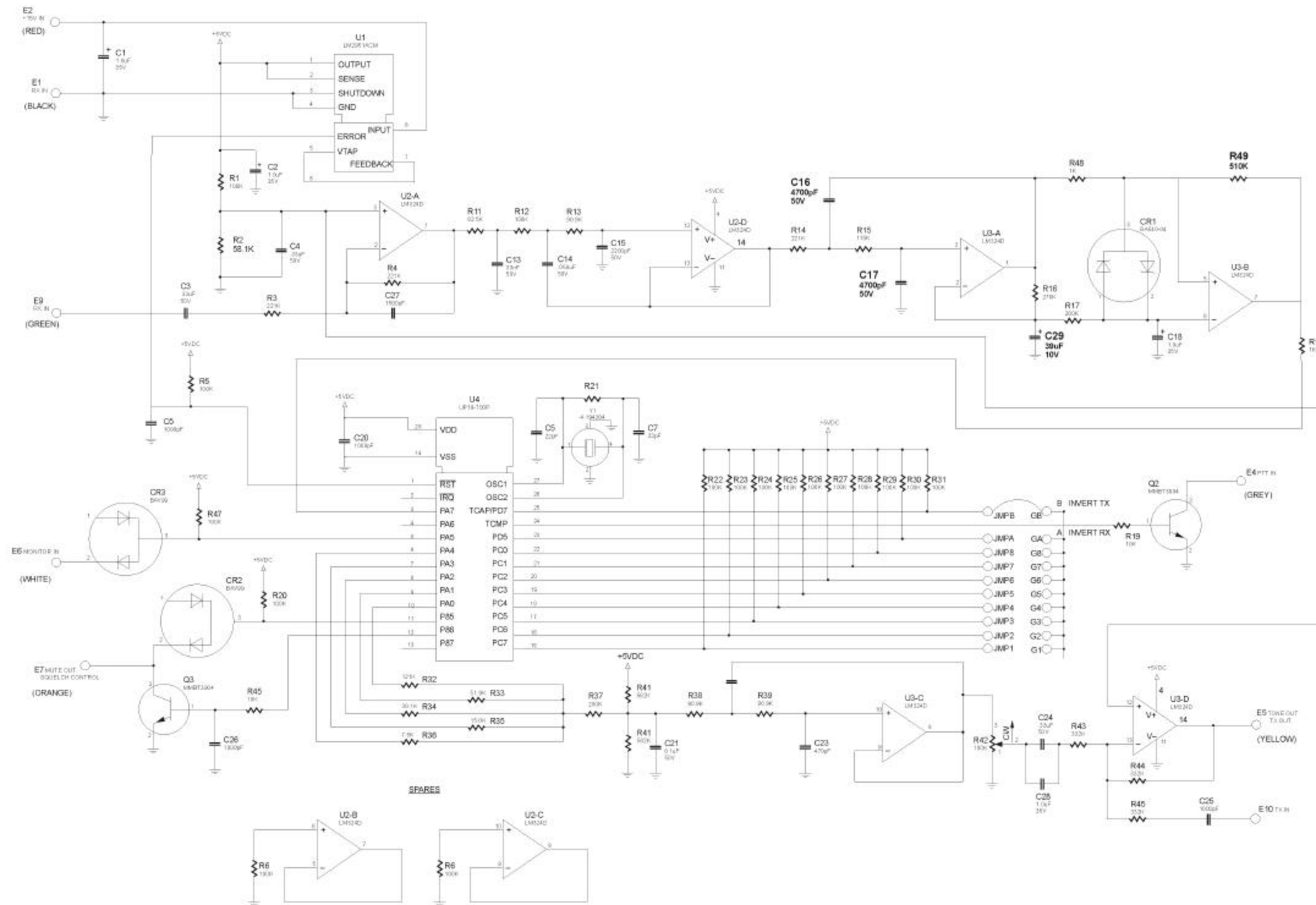


Figure 3. C-5000 CTCSS/DCS Tone Module 300-018390 Schematic

MATERIAL INFORMATION

The parts required to modify a C-5000, per this Service Bulletin, are available from Wulfsberg Electronics Division, at (502) 708-1518. The part numbers are as follows:

<u>ITEM</u>	<u>QUANTITY</u>	<u>PART NUMBERS</u>	<u>DESCRIPTION</u>
1	1 each	096-01082-0046	Capacitor Tantalum 39uf 10V
2	A/R	16012-3	Tac Pak Adhesive