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DOES NOT CHANGE ORIGINAL APPROVAL

SERVICE BULLETIN

EQUIPMENT: RT-406F

DATE: January 21, 1999

BULLETIN NUMBER: WSB RT-406F-1

APPLICABILITY

This service bulletin applies to all RT-406F FLEXCOMM TRANSCEIVERS 400-012785-xx containing power amplifier P/N 300-015920-01.

This applies to the following subassemblies:

- 300-015920-01 RT-406F Power Amplifier

REASON

This procedure improves the reliability of the power amplifier over temperature.

EFFECTIVITY

All RT-406F P/N 400-012785-xx units with serial number 1636 and above shall have this modification incorporated during original manufacturing.



DESCRIPTION

This modification consists of rework to the 300-15920-01 Power Amplifier assembly to add a resistor and a capacitor to Q1, change a resistor on Q1 and adding a capacitor to the output of Q2.

COMPLIANCE

Recommended at next scheduled maintenance period.

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.

MATERIAL INFORMATION

The parts required to modify an RT-406F per this Service Bulletin are available from Wulfsberg Electronics Division, at (502) 708-1518. The part numbers are as follows:

<u>ITEM</u>	<u>QTY</u>	<u>PART NUMBERS</u>	<u>DESCRIPTION</u>
1	1	106-04471-0016	CAPACITOR, 470 pF 5% 50 V NPO
2	2	139-00374-0000	RESISTOR, 37.4 Ohm 1 % 1/8 W
3	1	210-1159-650	CAP,CHIP 1.5 pF ATC Porcelain \pm .25 pF 650 V

MODIFICATION PROCEDURE

1. Remove the cover from the RT module (300-014366-xx).

CAUTION

Any disassembly/assembly of the RT-406F must be done at a static-safe workstation. Removed modules should be placed in antistatic bags when not installed in the unit.

2. Locate resistor R3. Remove and discard it.
3. Replace R3 with item 2.
4. Install item 2 (R24) as shown in fig. 1. Install item 1 (C39) on top of item 2.
5. Install item 3 (C40) as shown in Fig. 2. Scrap away the solder mask on the ground plane side to enable soldering of item 3.
6. Mark the service bulletin number on the circuit board and on the outside of the cover of the RT module 300-014366.

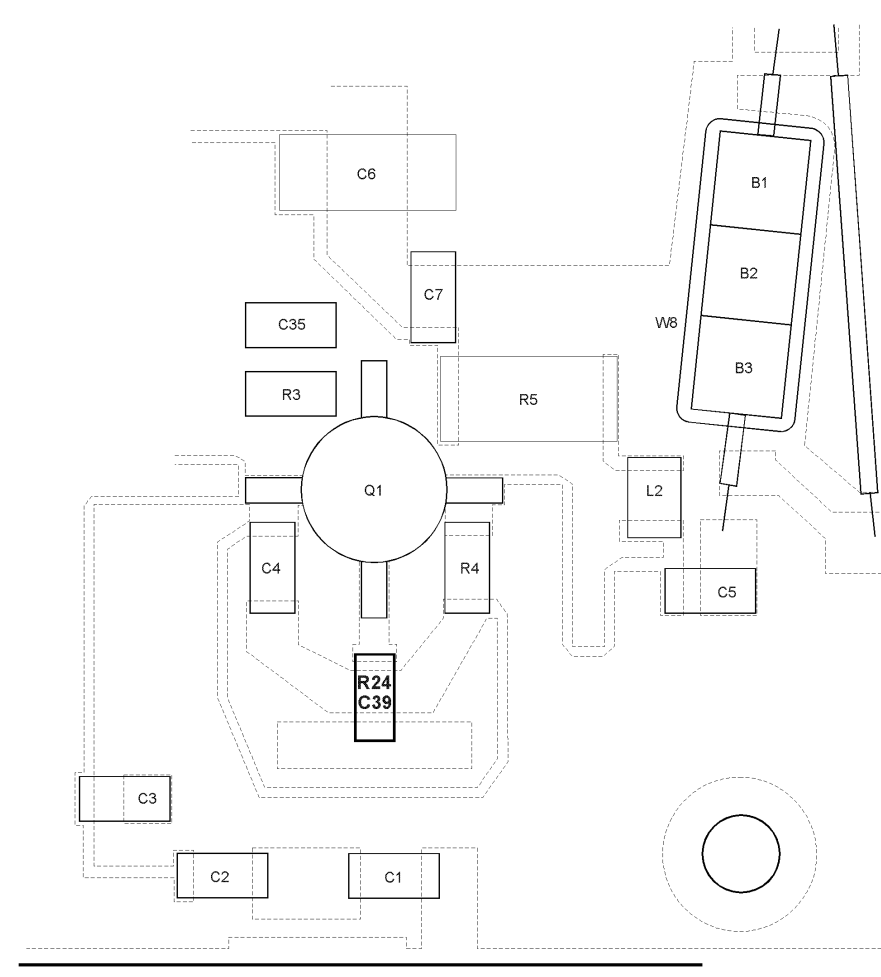


Figure 1

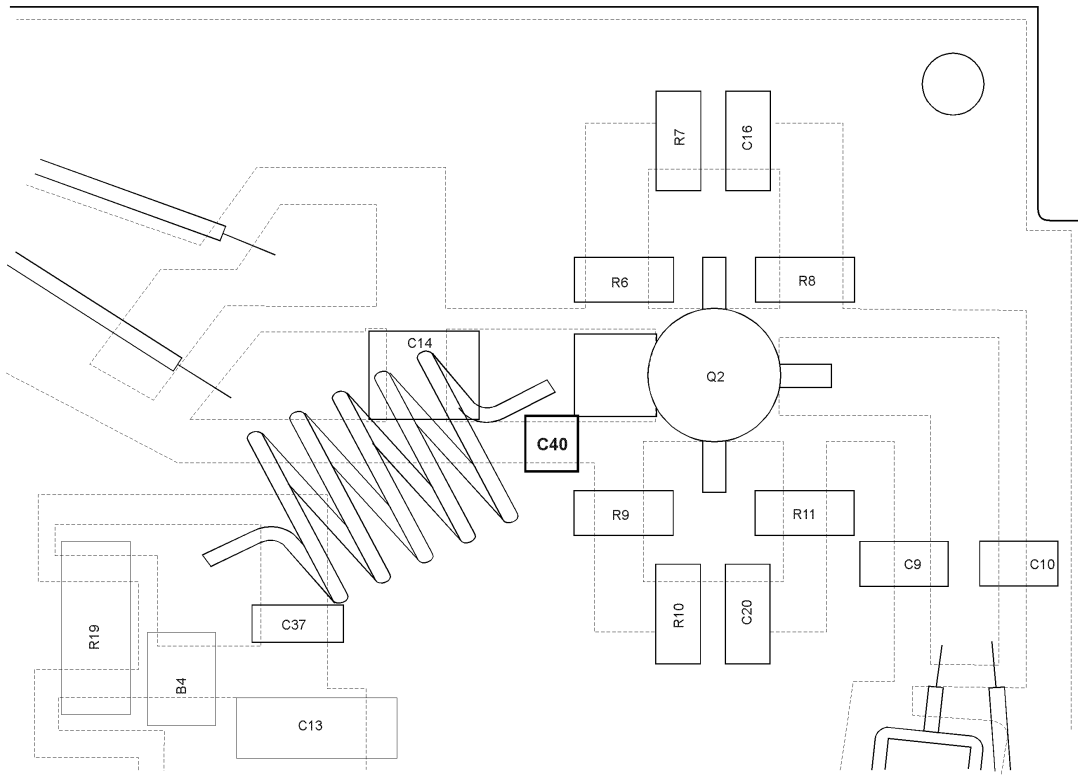


Figure 2

UNIT IDENTIFICATION PROCEDURE

No addition marking required.

UNIT TESTING PROCEDURE

Perform a power amplifier functional test of the unit in accordance with RT-406F alignment procedure (100-014313 rev D section 4.6.6)