



Command Systems Division
Product Support Department
815 Broadhollow Road
Farmingdale, New York 11735
USA

SERVICE BULLETIN

Service Bulletin SB-T-04-1400C-0006

RDR-1400C WEATHER RADAR SYSTEM

**RT-1401B RECEIVER-TRANSMITTERS
P/N 4000831-0105 AND -0106)
Unit Mod 10**

**INTERCONNECT MODULE P/N 3606464-0501 AND -0502
Sub-assy Mod 1**

REASON FOR CHANGE:

**PRODUCT IMPROVEMENT TO
ADD CAPACITORS TO PREVENT TRANSISTOR OSCILLATION**



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Planning

EFFECTIVITY

- Upon replacement of Q1 or Q2 on the RT-1401B rear panel, this service bulletin is applicable to all serial numbers of RT-1401B, Receiver Transmitters P/N 4000831-0105 and P/N 4000831-0106.

REASON

Improve reliability by preventing series pass transistors from oscillating.

DESCRIPTION

This modification adds 2 capacitors to the Interconnect module.



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COMPLIANCE

This modification should be incorporated in all RT-1401B RT units when Q1 or Q2 on the RT rear panel requires replacement.

APPROVAL

This modification is a product improvement that does not revise the approved configuration; therefore, this modification does not require FAA or other regulatory agency approval.

MANPOWER

Approximately 1.0 man-hour of labor, excluding time for testing are required to accomplish this modification.

MATERIAL INFORMATION

The parts required for this modification are shown in the following table:

Telephonics Part Number	Description	Qty
10249-0151	Capacitor, Ceramic, 1 uf \pm 10% 50v, C7 and C8	2
990196-5	Sleeving, Teflon	AR
985310-3	RTV 3145	AR

To order the required parts, for current part pricing, or for additional information - please contact:

Telephonics Corporation
815 Broad Hollow Road
Farmingdale, NY 11735
Attn: Product Support Department

Tel: 1-877-517-2327
1-631-755-7004

Fax: 1-877-755-7701
1-631-755-7227

Please reference this Service Bulletin and PCNs 379-0545 and 379-0431.



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REFERENCE

006-05342-0002 (IB21401B-1) RT-1401B Maintenance Manual

PUBLICATION AFFECTED

The next revision to the RT-1041B maintenance manual will document this service bulletin.

WARRANTY

Material and maximum of 1 man-hour of labor will be covered for units in warranty.

Accomplishment Instructions

- a. Modification Instructions.

WARNING: REMOVE ALL POWER FROM THE UNIT BEFORE DISASSEMBLY OF ANY COMPONENT, PC BOARD, MODULE, OR SUBASSEMBLY. BESIDES BEING DANGEROUS TO LIFE, VOLTAGE TRANSIENTS CAN CAUSE CONSIDERABLE DAMAGE TO THE EQUIPMENT.

CAUTION: THIS EQUIPMENT CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) DEVICES. EQUIPMENT, MODULES, AND ESDS DEVICES MUST BE HANDLED WITH APPROPRIATE PRECAUTIONS.

CAUTION: EXERCISE EXTREME CARE WHEN DISCONNECTING AND RECONNECTING MULTIPIN CONNECTORS TO ENSURE THAT CONNECTORS ARE NOT DAMAGED BY MISALIGNMENT OF PINS

- b. Loosen two screws on each side securing cover to front of unit.
- c. Remove two screws and lock washers securing cover to rear of unit and remove cover.
- d. See Figure 1. Unfasten two 8x32 screws that secure the Modulator Assembly to the unit.
- e. Remove Modulator Assembly ribbon cable.
- f. Disconnect Spade lugged wires.
- g. Remove Modulator Assembly.

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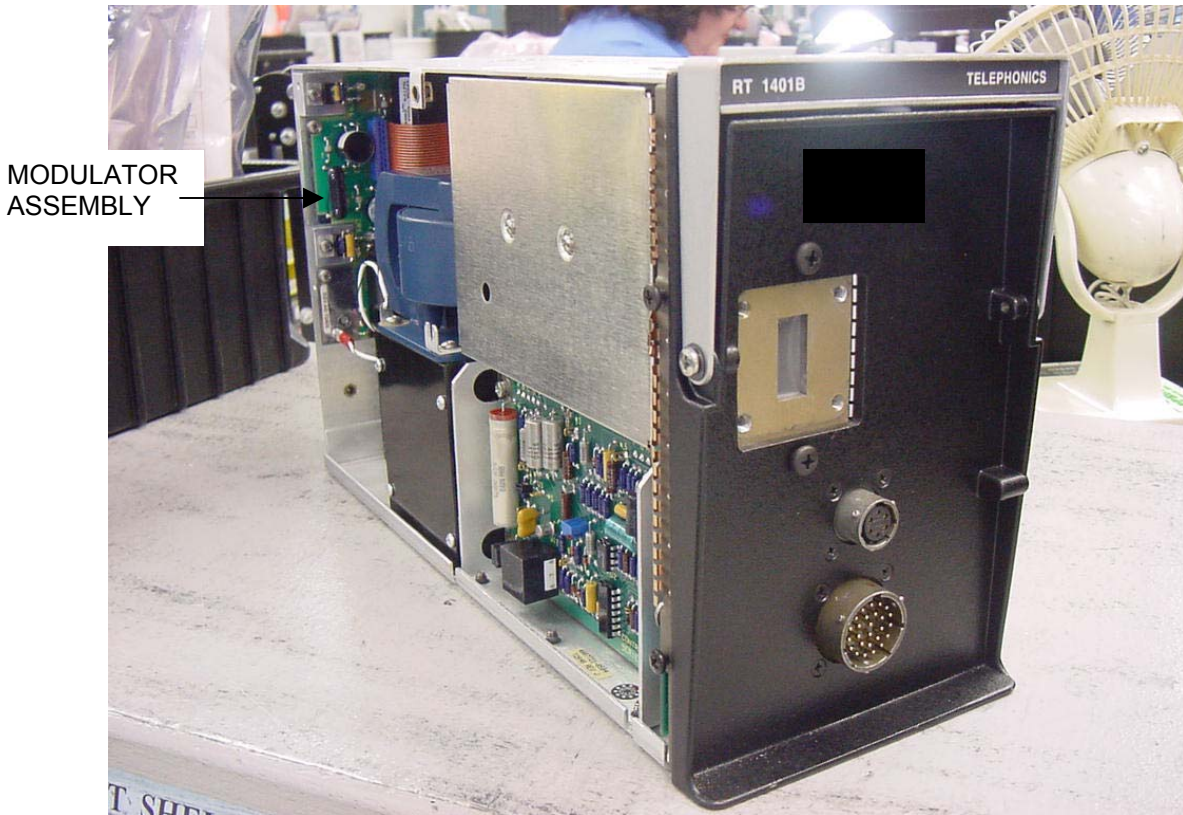


Figure 1. Unit with Dust Cover Removed

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h. Using Figure 2, locate E1 thru E6 on the Interconnect Module.

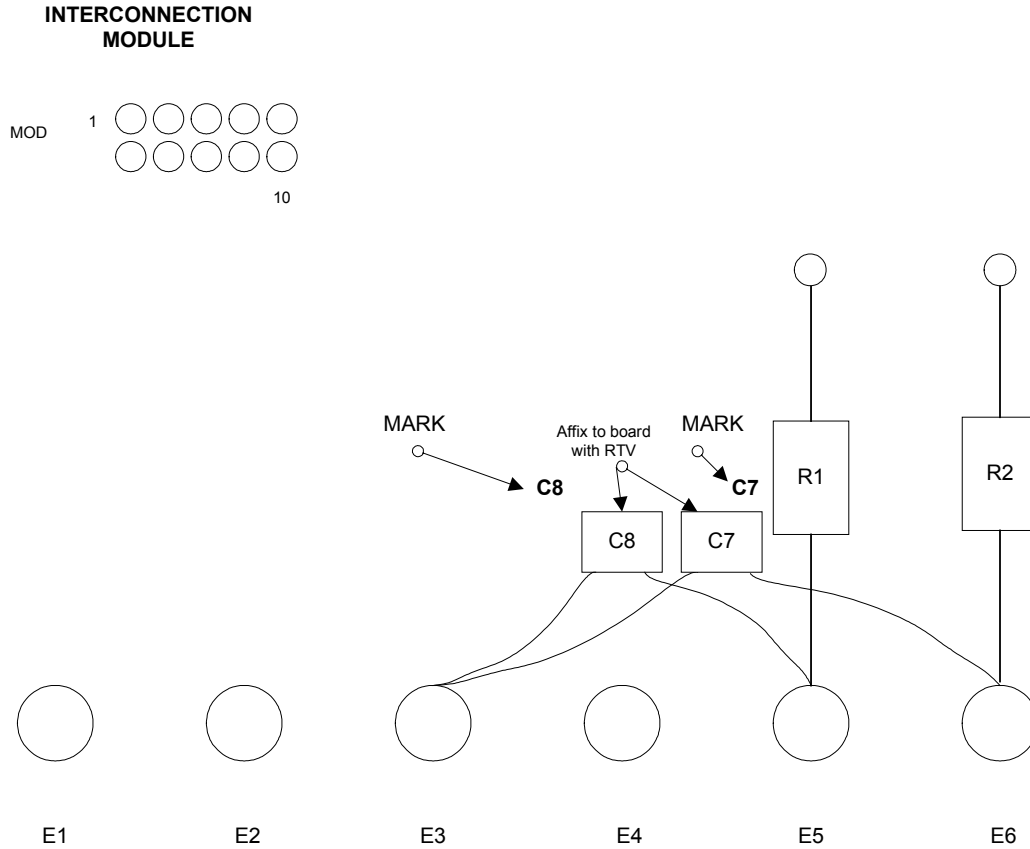


Figure 2. Modification Drawing



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- i. Cover capacitors C7 and C8 with sleeving and solder to terminals as shown.
- j. Affix capacitors to board with RTV.
- k. Stamp Reference Designations C7 and C8 with black ink as shown.
- l. Apply a dot of red paint to cover mod 1 of the Interconnect Module modification area.
- m. Apply a dot of red paint to cover mod 10 of the Unit modification decal.
- n. Reassemble RT following disassembly steps in reverse order.
- o. Test unit in accordance with the referenced technical manual.