



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

SERVICE BULLETIN

Service Bulletin SB-T-06-1600-0001

RDR-1600 WEATHER RADAR SYSTEM

**RT-1601 RECEIVER-TRANSMITTERS
P/N 379-2011-001**

**Serial Numbers T2000 and Up
Unit Mod 5**

**Analog/Video Module
P/N 379-2070-001
Subassy Mod 1**

**POSSIBLE INTERMITTENT RADAR CONTROL PANEL FUNCTION
REQUIRES RESISTOR VALUE CHANGE ON RT-1601 ANALOG VIDEO MODULE**

REASON FOR CHANGE:

On the Radar Control Panel, rotating the switch between the TEST position and the ON position may exhibit intermittent function. The RT-1601A Automatic Frequency Control (AFC) circuit fails to lock. This Service Bulletin resolves this problem by replacing parts in the RT-1601.

Equipment with this problem should be returned to Telephonics for repair and testing.

An authorized Telephonics Service Center capable of performing the required testing may be also be used for this modification.



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REFERENCE PUBLICATIONS

TM106601(4/05) RDR-1600 Installation Manual
TM109902(5/03) RT-1601 Maintenance Manual

PUBLICATION AFFECTED

The next revision to the maintenance manual will document this service bulletin.

WARRANTY

Material and a maximum of 1.0 hour of labor will be covered for all affected units.

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-hours of labor, excluding testing are required to accomplish this modification.

MATERIAL INFORMATION

The parts required for this modification (if the unit is not returned to Telephonics) are shown in the following table:

Telephonics Part Number	Description	Qty
11163-391J	Resistors, R9 and R101	2

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

Orders must specify part numbers, quantity required and reference this Service Bulletin and PCN 379-0703A.



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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) Dust Cover

- (1) Loosen two screws on each side securing cover to unit at front panel.
- (2) Remove two screws and lock-washers securing cover to rear of unit and remove cover.

c) Mode-Decode Board

- (1) Remove dust cover per paragraph b.
- (2) Disconnect one ribbon connector.
- (3) Loosen four captive screws securing mode-decode board to analog/video board and remove mode-decode board.

d) Analog/Video Board

- (1) Remove mode-decode board per paragraph c.
- (2) Disconnect two ribbon connectors and one pendant connector.
- (3) Remove two screws in top of unit that secure heat sink for power transistors on analog/video board.



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- (4) Loosen six captive screws securing board and remove board.
 - a. Using Figure 4-4 in the maintenance manual, locate resistors R9 and R101.
 - b. Replace R9 and R101 with supplied resistors.
 - e) Reassemble RT following above disassembly in reverse order.
 - f) Test unit in accordance with Chapter 2 of the maintenance manual.



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IDENTIFICATION

Apply a dot of red paint to cover mod 5 of the Unit modification decal.

Apply a dot of red paint to cover mod 1 of the Analog/Video Board.

For additional information contact:

Telephonics Corporation
Command Systems Division
Product Support Group
815 Broad Hollow Road
Attention: Mr. Kenneth Bernstein – Mail Stop 18A
Farmingdale, NY 11735
Phone: 631-755-7081
1-877-517-2327
Fax: 1-631-755-7227
1-631-755-7701
e-mail: bernstein@telephonics.com