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## SERVICE BULLETIN

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### Service Bulletin SB-T-06-1500B-0001

**RDR-1500B WEATHER RADAR SYSTEM  
RDR-1700 WEATHER RADAR SYSTEM**

**RT-1501A RECEIVER-TRANSMITTER**

**P/N 4001973-0151  
Unit Mod 34**

**Final Assy  
P/N 2040422-0503, -0504  
Subassy Mod 9**

**Regulator Module  
P/N 3606486-0501 thru -0503 Sub-assy Mod 7**

**Modulator Module  
P/N 3606478-0501, -0502 Sub-assy Mod 6**

**REPLACES FLYBACK TRANSFORMER WITH NEW IMPROVED PART  
REPLACES RESISTOR R15 WITH VALUE TO OPTIMIZE CIRCUIT**

#### **REASON FOR CHANGE:**

The Telephonics Reliability Assurance program has identified the following changes to optimize the RT-1501A performance:

- A new Flyback Transformer was selected with enhanced reliability characteristics.
- A new resistor value lead to enhanced circuit performance.



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### **Planning**

#### **EFFECTIVITY**

This service bulletin is applicable to All RT-1501A Receiver Transmitters with serial numbers T2000 to T2099

#### **DESCRIPTION**

On the Regulator Module, this service bulletin replaces the Transformer, T1 and the resistor R15.

#### **COMPLIANCE**

This modification should be incorporated in all affected RT-1501A 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**

One (1) hour of labor including testing are estimated to incorporate this modification.

#### **MATERIAL INFORMATION**

All parts necessary to upgrade an RT-1501A according to this service bulletin are listed below:

<b>Part Number</b>	<b>Qty</b>	<b>Description</b>
819-000-0461 (Telephonics T5950-0063-001)	1	Flyback Transformer, T1
RN55D8252F	1	Resistor, 82.5K OHM, ± 1%, R15

Contact Telephonics by telephone at 1-631-755-7004 for current material pricing. Please reference this Service Bulletin, PCN-381-0314B, and PCN-381-0318A.



Telephonics Corporation  
815 Broad Hollow Road  
Farmingdale, NY 11735 USA  
www.telephonics.com

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This modification can be performed by an authorized Telephonics Service Center or by the Telephonics factory. To return a failed unit to Telephonics for upgrade and repair - 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

Inquiries must reference this Service Bulletin, PCN-381-0314B and PCN-381-0318A.

### REFERENCE

006-15590-0000 RDR-1500B Maintenance Manual (Volume 2)

### PUBLICATION AFFECTED

The next revision to maintenance manuals for the RDR-1500B will document this service bulletin.

### WARRANTY

Four (4) hours for labor and material will be covered for units in warranty.



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### **PART 3, ACCOMPLISHMENT INSTRUCTIONS**

- 1) Disassemble the RT-1501A according to maintenance manual procedures found in the Disassembly/Assembly section, to access the Regulator and Modulator Modules.
- 2) Remove Board 3606478-0501, Modulator Module.
- 3) Remove Board 3606486-0501, Regulator Module.

●NOTE: Unit serial numbers T2098 and T2099 should have had the transformer called for in step a) below previously installed.

These units now only require the resistor called for in step b) below to be installed.

- a) Remove and replace T1 with supplied transformer (p/n 819-000-0461)
- b) Remove and replace R15 with supplied resistor (82.5K OHM,± 1%, p/n RN55D8252F)

#### 4) IDENTIFICATION PROCEDURE

Place a dot of red paint on the unit modification decal to indicate that mod 34 has been accomplished for the RT.

Place a dot of red paint on the Chassis Final Assembly modification decal to indicate that mod 9 has been accomplished for the Chassis.

Place a dot of red paint on the Regulator board modification decal to indicate that mod 7 has been accomplished for the Regulator Module.

Place a dot of red paint on the Modulator board modification decal to indicate that mod 6 has been accomplished for the Modulator Module.

- 5) Reassemble the unit according to the instructions in the Disassembly/Assembly Section of the Maintenance Manual.
- 6) Perform a complete functional test of the unit in accordance with the Testing and Troubleshooting section of the maintenance manual.



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For additional information contact:

Telephonics Corporation  
Command Systems Division  
Product Support Group  
815 Broad Hollow Road  
Attention: Mr. Kenneth Bernstein – Mail Stop 40  
Farmingdale, NY 11735  
Phone: 631-755-7081  
1-877-577-2327  
Fax: 1-631-755-7227  
1-631-755-7701  
e-mail: [bernstein@telephonics.com](mailto:bernstein@telephonics.com)