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## SERVICE BULLETIN

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### Service Bulletin SB-T-04-1500B-0001

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

**RT-1501A RECEIVER-TRANSMITTER  
P/N 4001973-0104  
P/N 4001973-0151  
Unit Mod 32**

**FINAL R/T ASSEMBLY P/N 2040422  
-0501 and -0502 Sub-assy Mod 6  
-0503 and -0504 Sub-assy Mod 7**

**REGULATOR MODULE P/N 3606486  
-0501, -0502 and -503 Sub-assy Mod 5**

**MID-PULSE MODULATOR ASSEMBLY P/N 3606472  
-0501 and -502 Sub-assy Mod 6  
-0503 Sub-assy Mod 7**

**S/L PULSER ASSEMBLY P/N 3606487  
-501, -502 and -0503 Sub-assy Mod 3**

### **FLYBACK TRANSFORMER CIRCUITRY and COATING REPLACEMENT**

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

Telephonics has an ongoing program of reliability analysis. Accordingly, to improve the reliability of the RT, these changes are implemented to:

- Use a more robust flyback transformer.
- Revise the manufacturing process to utilize a more durable conformal coating.



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### ***Planning***

#### **EFFECTIVITY**

This service bulletin is applicable to All RT-1501A Receiver Transmitters. Upon failure of the flyback transformer, T1, of the Regulator Module PN 3606486, R/T units must be returned to Telephonics for upgrade and repair.

#### **REASON**

Product reliability improvement is achieved by installation of new components.

#### **DESCRIPTION**

On the Regulator assembly, this service bulletin replaces the flyback transformer, T1, changes the values of C1 and R15 and adopts a new coating type.

#### **COMPLIANCE**

This modification should be incorporated in RT-1501A RT units in the event of failure of the flyback transformer, T1 of the modulator assembly.

#### **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**

N/A (Return to Telephonics).

#### **MATERIAL INFORMATION**

N/A (Return to Telephonics).



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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 and PCN 381-281.

### REFERENCE

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

TM1110502 RDR-1700 Maintenance Manual

### PUBLICATION AFFECTED

The next revision to maintenance manuals for the RDR-1500B and the RDR-1700 will document this service bulletin.

### WARRANTY

Material and labor will be covered for units in warranty.

### *Accomplishment Instructions*

*N/A* (Return to Telephonics).