



## **PRODUCT ADVISORY LETTER NO.: CC46-99002A**

**DATE:** 7/15/99 (revised 8/5/99)

**AFFECTED PRODUCT(S):** TC-10B with the Self-Adjusting Receiver (shipped prior to 7/9/99).

**AFFECTED MODULE(S):** AM Receiver/Detect module (style # - CO20-RXVMN-201).

### **PROBLEM(s) corrected by Firmware Version 2.60:**

1. The carrier level meter and indicating lights may occasionally discontinue indicating a signal. This may be reset by either pushing the "SET" button to enter the user programming function of the unit, then canceling out or by turning the unit off then back on again. This can cause the Carrier Level Indicator to blank out or may shut down the receiver.
2. The TC-10B receiver (CO20-RXVMN-201) will experience a longer-than-normal drop out delay when the local transmitter is keyed, which could under certain scenarios delay pilot tripping of your protection system. The length of this dropout delay varies based on the difference between the local and remote signal.

### **PROBLEM corrected by Firmware Version 2.70:**

3. When utilizing the external Carrier Level Output driving circuit, some units experience a drop in the dB reading of the external meter when depressing the "SET" button for final installation.

**RECOMMENDATION:** - Pulsar recommends the corrective action listed below be taken for **ALL** CO20-RXVMN-201 Receiver modules shipped prior to the date listed above. Please also see PAL - CF46-99003 for the TCF-10B Receiver and Logic Module.

**CORRECTIVE ACTION:** Call Pulsar at phone # 800-785-7274 to discuss plans to upgrade your modules that best suit your schedule and method. Attached is a listing of your orders that, according to our records may be affected by this problem. We recommend that you verify the completeness of this list to be sure all affected units are upgraded. If you have not experienced the problem #3 listed above, or are not using an external meter to monitor carrier level, it is not required to upgrade to Firmware version 2.7.

### **TECHNICAL DETAILS:**

1. The receiver input can be influenced by transients that propagate on the coax cable. To eliminate this susceptibility, the Receiver Module Firmware has been updated.
2. If the power difference of the local transmitted signal and the remote (received) signal is great enough then the TC-10B receiver module could be saturated with an extremely high signal when in a low sensitivity setting. A setting has been added to the receiver sensitivity setting that evaluates the local transmitter's signal level against the remote signal level. This will dynamically adjust the receiver sensitivity to the local transmitter signal thereby eliminating the longer than normal drop out delay.

Pulsar Technologies appreciates your past support. We want to continue to provide you the best service possible. Please help us by letting us know if future notices should be sent to another individual. PAL: CC46-99002A