

# SERVICE BULLETIN

## MT-4D RECEIVER LOCK-UP

BULLETIN NUMBER: SB-0008  
REVISION: A  
DATE: JAN 2004

PRODUCT DESCRIPTION: MT-4D RECEIVERS PROGRAMMED WITH RSS4D-R VERSION 1.1

DE REFERENCE / ECO: ECO# 805

PRODUCTS EFFECTED:	Model Number	Software Versions
	VR-4D150-R0-000	RSS4D-R version 1.1
	VR-4D420-R0-000	RSS4D-R version 1.1

SYMPTOMS: MT-4D Receivers lock-up during periods of re-keying

CAUSE: Activation of the Narrow IF Filter Width (5.76 kHz) option with CTCSS or DCS active causes the Receiver to lock-up when it is continuously re-keyed.

SOLUTION: CTCSS and DCS options should only be used with the standard IF Filter Width setting (7.8 kHz). The Narrow IF Filter Width setting (5.76 kHz) should not be used with CTCSS or DCS.

PARTS REQUIRED: None Required

PROCEDURE: Follow the instructions listed below and reference drawings in Additional Information on page 2.

- 1) In RSS4D-R version 1.1, the operator should ensure that when using the CTCSS or DCS options that the IF Filter Width is set to the 7.8 kHz setting.

The Narrow IF Filter Width (5.76 kHz) should never be used when programming the Receiver for CTCSS or DCS.

RETURN REQUESTS: This is an advisory notice only. Product returns are not required.

REVISION HISTORY:

Rev	Date	Description
A	01/05/04	First Release

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ADDITIONAL INFORMATION

The screenshot shows the 'Daniels Electronics - Receiver Configuration' window. It is divided into several sections: 'Receiver Wide Settings', 'Receiver Channel Settings', 'P25 Digital Settings', and 'Analog Settings'. Three red circles highlight specific settings: 'Frequency Band' (136-174 MHz) and 'IF Filter Width' (7.8 kHz) in the Receiver Wide Settings; 'Channel Type' (Mixed Mode) in the Receiver Channel Settings; and 'Squelch Type' (CTCSS) and 'Analog Bandwidth' (12.5 kHz) in the Analog Settings. Three callout boxes with arrows point to these settings, each containing a condition. Two 'AND' boxes are also present, indicating that the conditions in the callouts are combined with an AND logic. The first callout box states: 'Frequency Band = V.H.F or U.H.F IF Filter Width = 7.8 kHz'. The second callout box states: 'Channel Type = Mixed Mode or Analog'. The third callout box states: 'Squelch Type = CTCSS or DCS Analog Bandwidth = 12.5 kHz'. The 'AND' boxes are connected to the callouts by double-headed arrows, suggesting that the conditions are combined.

Note: The IF Filter Width must be set to 7.8 kHz when programming a Narrow Band Receiver with CTCSS, or DCS, in either an Analog or Mixed Mode of operation. A 5.76 kHz IF Filter Width must not be used with the CTCSS or DCS settings enabled.