

# *Field Software Notice*

To: **5300 Users**  
Subject: **Software Release**

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Platform: **5300**  
Protocol: **P25 Conventional, SMARTNET™/SmartZone®, P25 Trunking**  
Version Release #: **1.23.18 / 1.58** Part #: **039-5691-224**  
Effective Release Date: **03/05/04**

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*Minimum Requirements:*

PC Configure:	<b>1.21.2.9 - p/n 039-5687-224</b>	ARM:	<b>1.23.18 - p/n 039-5691-224</b>
PC Configure Code Upgrade Loader:	N/A	DSP:	<b>1.58 - p/n 039-5692-214</b>
PC Configure Boot Upgrade Loader:	N/A	PC Flash:	N/A
Radio Boot Code:	N/A	PC Tune:	<b>1.1.1.0 - p/n 023-9998-49910</b>
Other:	N/A	PC Trunk:	N/A

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*Feature Enhancements:*

- **Added Over the Air Rekeying (OTAR)**
- **Added AES OTAR**
- **Added AES support**
- **Added anti-cloning support**
- **Added Conventional Emergency Signaling features**
- **Added digital double priority scan support**
- **Added external PA display indication**
- **Added keypad DTMF over dial support**
- **Added LED enable/Disable**
- **Added RWS list edit**
- **Added Rx only channels**
- **Added system wide preferred site support**
- **Added User Group ID table**
- **Allow PTT for external PA when out of range**
- **Analog-Tx-mixed-mode**
- **Assigned system-wide preferred site lists to announcement groups**
- **Busy channel check**
- **Changed IMBE repeat and mute functions to work with encryption**
- **Changed SmartZone preferred site list from 16 + 4 to 32 + 4.**

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## *Feature Enhancements (continued):*

- **Deaffiliation inactivity timer**
- **Display proper keyset names**
- **Don't allow lower case letters in keyset name**
- **Don't allow Rx calls after site access denied**
- **Don't allow scan button when mic is off hook**
- **Don't allow unit call/call alert/status when in emergency**
- **Dynamic Regroup Cancel and Clear Lock**
- **Emergency Alarm signaling and Call Alert**
- **Emergency hot mic**
- **Emergency on Group/Regroup channel with no emergency group programmed**
- **Enhanced RWS when no scan markers coming out on the system**
- **External PA functionality with option in PCConfig for rx audio enabled/disabled**
- **Force scan off when dynamic regroup received**
- **Go back to previous channel when selector lock is canceled**
- **Horn Honk (boot 1.7 or higher required)**
- **Ignore PTT during hot mic**
- **Improved ANI delay function**
- **Improved surveillance mode backlight operation**
- **Improved unit call ring tone volume (all protocols)**
- **Increase all message queues to 12 mssgs**
- **Indicate when emergency call received**
- **Made all HHC buttons programmable**
- **Made changes for display of Encryption**
- **Omnalink Support**
- **Option to ignore clear/secure switch when channel strapped**
- **Other Band Trunking**
- **P25 group call voice channel group verification**
- **Password enhancements**
- **PTT-ID and Talkgroup display time programmable**
- **Site search and site lock allowed in "Out of Range" condition**
- **Site trunking display in RWS**
- **Soft power down (must press a key while turning off the on/off switch to turn the radio off)**
- **Support group affiliation query**
- **Support PTTid display during hang time**

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*Feature Enhancements (continued):*

- **Tone volume adjustable - function button and PCConfig**
- **Transmit call type now follows clear/secure mode**

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*Part Numbers Affected:*

242-53xx-2xx      242-53xx-4xx      242-53xx-6xx      242-53xx-8xx

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*Notes:*

For Horn Honk, boot code version 1.7 or higher is required.

Customers will need to provide a list of serial numbers of the radios they want to upgrade.

Customers will also need to load an option file as part of the upgrade process. This is to ensure that all options they originally purchased are turned on after the radio is flashed. EFJohnson will supply the option file for each serial number provided by the customer.

Upgrade CDs will contain:

- 1.23.18 ARM Code
- 1.58 DSP Code
- 1.8 Boot Code
- 1.21.2.9 PC Configure
- Option file for each serial number provided
- Flash and Boot Upgrade Instructions

There may be a small number of radios that will not take the upgrade. Those units will need to be returned to the factory for repair.

If you would like a copy of this software, please contact Sue Baldini at 800-328-3911, extension 6970.

For Technical Questions regarding this Field Software Notice, please contact EFJohnson Technical Support at 800-328-3911, ext. 2.