

Field Software Notice

To: **All 5100 P25 Conventional Users**
Subject: **Software Release**

Platform: **5100**
Protocol: **P25 Conventional Only**
Version Release #: **1.10 (039-5702-210)**
Effective Release Date: **8/26/03**

Minimum Requirements:

PC Configure:	1.20 or higher (023-9998-48820)	ARM:	N/A
PC Configure Code Upgrade Loader:	N/A	DSP:	N/A
PC Configure Boot Upgrade Loader:	N/A	PC Flash:	N/A
Radio Boot Code:	N/A	PC Tune:	1.0.8.7 or higher
Other:		PC Trunk:	N/A

Feature Additions/Enhancements:

- Added OTAR Capability
 - Allow search backwards through site list in site search
 - Added support for transmission trunking on digital channels
 - Added UHF 380 support with even spaced test freqs. (Needs PCTune 1.0.8.7)
 - Added anti-cloning support (Need Pc Configure 1.20 and higher)
 - Assigned system-wide preferred site lists to announcement groups
 - Added DSP oscillator warp function
 - Added Conventional emergency signaling
 - Added AES support in software (non-FIPS-140-2 approved)
 - Improved ANI delay time
 - Made changes for display of Encryption
 - Option to ignore clear/secure switch when channel strapped
 - Programmable microphone audio levels
 - PC Keyloader Support
 - PTT-ID and Talkgroup display time programmable
 - Single Tone Encoder (Royal Canadian Mounted Police)
 - Soft power down – requires second button push to turn radio off.
 - SMARTNET/SmartZone Interconnect (analog clear / digital clear)
 - SMARTNET/SmartZone Securenet (group / private call)
 - Tone volume adjustable - function button and PC Configure
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Fixes:

- Busy channel check bug fixed
- Dynamic Regroup Cancel and Clear Lock fixes
- Emergency Alarm failed fixes
- Fixed Fixed display refresh problem when Tx'ing in the middle of site search
- Fixed Digital Unit Call Lockup
- Fixed Unit Call lockup in call Cancel state
- Fixed Unit call ring tone volume (all protocols)
- Fixed low battery icon turning off when in Tx Busy
- Fixed RWS race condition lockup w/channel change
- Fixed surveillance mode backlight operation
- Fixed autoscan - will work if scan button isn't programmed, only activates if channel has enabled autoscan
- Fixed Unit Call Lockup
- Fixed "no audio" on Emergency Calls
- Fixed menu mode lockup
- Fixed System Wide Preferred Site bug
- Fixed lockup when turning off Radio Wide Scan
- Fixed call alert lockup in emergency
- Fixed lockup on rapid receive of 2 extended function commands
- Fixed radio hang up when loss of sync occurs during registration
- Ignore PTT during hot mic
- Indicate when emergency call received
- No Emergency Group programmed fixes
- Only display PTT ID and talkgroup ID on first reception in a call sequence – Doesn't display on subsequent receptions during the hang time
- Params fail fixed (caused when powering down in the middle of zone change)
- Reverse burst CTCSS was corrected from 90deg to 180deg
- Scan icon does not display if on dynamic regrouping channel
- Set registered RFSSID after a unit registration
- Transmit call type now follows clear/secure mode
- Will not allow scan of priority channel if active channel is analog active with CTCSS or DCS off the same frequency.
- SmartZone roaming fix without adjacent site OSW's
- Fixed lockup in SN
- Hot DTMF
- Emergency Alarm fixes
- Force scan off when dynamic regroup received
- Fix Full spectrum scan - Tx freq set incorrectly
- Restrict functions allowed in emergency
- P25 Trunking mute on loss of sync on voice channel
- fixed call alert
- Toggle switch zone select function
- P25 Conventional Signaling features
- More digital carrier squelch fixes

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Part Numbers Affected:

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242-7780-302	242-7780-302A	242-7780-302B	242-7780-303	242-7780-303A
242-7780-303B	242-7780-502	242-7780-502A	242-7780-502B	242-7780-502C
242-7780-502D	242-7780-502E	242-7780-502E	242-7780-502F	242-7780-503
242-7780-503A	242-7780-503A	242-7780-503B	242-7780-503C	242-7780-503D
242-7780-503Q	242-7781-302	242-7781-302A	242-7781-302B	242-7781-303
242-7781-303A	242-7781-303B	242-7781-502	242-7781-502A	242-7781-502B
242-7781-503	242-7781-503A	242-7781-503B		

Notes:

Not all fixes apply to all protocols.

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.