Field Software Notice

To: **Users of 5100 ES, 51SL ES and Ascend ES Portable Radios**
Subject: **Software Release**

Platform: **5100 ES Portable**
Protocol: **All**
Version Release #: **6.10.3** (Part Number**: 039-5757-214**)
Supersedes Version#: **6.8.9**
Effective Release: **05/04/09**
Express Code Updater: **CD Kit 023-9998-531-208**

This is the first software release that is for our award-winning ES (series 6) radios only. This release is not to be used on Series 4 and earlier version radios.

Minimum Requirements:	*Version*	*Part Number*
Corresponding DSP Version:	4.16.0	Embedded in flash
Corresponding ROM Boot Version:	6.7 (no change)	Embedded in ECU
Corresponding RAM Download Version:	1.0 (no change)	Embedded in PC Configure
Corresponding PC Configure Version:	2.10.2 ⇨ 2.12.6	039-5754-217
Corresponding PC Tune Version:	3.0.14 ⇨ 3.0.17	039-5697-220
Corresponding SMA Version:	1.2.7 (no change)	039-5730-202
Corresponding SEM Version:	3.4 (no change)	039-5711-205

New Features / Enhancements

➢ **Radio Wide:**

Support for Discover™ GPS Speaker Microphone
- Mic to Mic GPS Data transmission supported in P25 Conventional, Conventional Analog, Analog SMARTNET**®**/SmartZone**®**, and Multi-Net**®** modes

Function Recall

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- Enables user to check what function is assigned to each button (except Emergency button if emergency function is programmed)
- "Function Recall" is added to the PC Configure Menu and Button options

Radio Information Function:
- Radio Info function will now display the following in addition to current information:
  - SNDCP IP address provided by the P25 system…If not on a P25 system, displays "IP N/A"
  - The radio's memory size for codeplug:
    - Memory 1.0 = 32K
    - Memory 2.0 = 64K

54 Channels / 16 Zones:
- Provides ability to change zones with the top selector and change zones with the up/down rocker switch
- Requires 864 Channel Option to be set with PC Issue
- Programming is required on the PC Configure™ Global screen, second page

Disabled Soft System Key Option
- When enabled, P25/SN/SZ protected fields cannot be programmed unless Enhanced System key (USB dongle) is attached to PC
- Factory option required

Enhancements to Backlight Button
- Can now be programmed for 0 to 7.5 seconds in 0.5 second increments, and 0 to 75 seconds in 5 second increments
- Press and hold of Backlight button now toggles the backlight on or off

Enhanced System Key (ESK)
- The ESK will now support up to 6 system keys for P25 Trunking and SMARTNET/SmartZone systems

➢ **P25 Trunking:**

OTAP
- Functionally equivalent to Conventional OTAP

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Individual Talkgroup Security Settings
- Enables Talkgroup security settings on the PC Configure P25 Trunking Talkgroup List to be overridden
- Allows customer to use multiple encryption keys on the same talkgroup
- Enabled and programmed on the PC Configure P25 Trunking Zone screen

Display Received Key ID
- Enables display of the encryption Key ID or Key Alias (if programmed), when a secure call is received
- Programmed on the PC Configure Radio Wide page under "Display Options"

Site Lock Indicator
- Available on 5100 ES and 5300 ES (with Lightning Control Head only)
- Not available on 5300ES with standard control head
- "L" in square box in upper left corner of display indicates when site lock is active

➢ **SN/SZ:**

Site Lock Indicator
- Available on 5100 ES
- "L" in square box in upper left corner of display indicates when site lock is active

Display Received Key ID
- Enables display of the encryption Key ID or Key Alias (if programmed), when a secure call is received
- Programmed on the PC Configure Radio Wide page under "Display Options"

➢ **Conventional:**

Out of Range Indication
- Tone, Display or both can be selected
- Time interval programmable from 5 to 1280 seconds in 5 second increments

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- Requires the repeater to transmit a P25 Data "Beacon" at regular intervals so the radio knows when it is out of range (currently only provided by EFJ infrastructure). Note: The NAC of the system must match the programmed NAC in the subscribers.
- Programmed on PC Configure Conventional Radio Wide screen

Talkgroup Scan
- Enables scanning of P25 conventional talkgroups on a single channel
- Can be programmed to transmit on Active or Selected Talkgroup.
- Scan types added to conventional System Scan List, Scan Mode menu in PCC conventional Per System screen
- Radio will decode analog transmissions on channel if channel is programmed for Mixed Mode operation

Automatic Registration (P25 Conventional - EFJ infrastructure only)
- When enabled, the radio will register to a talkgroup whenever it changes sites, or comes back in range of a site
- Enables radio location to be tracked on a site by site basis, similar to trunking
- Requires programming on the PC Configure conventional Per System screen, second page – "EFJ Affiliation"

MDC1200 Inhibit / Uninhibit
- Supports the MDC Inhibit and Uninhibit commands
- Inhibit checkbox on PC Configure Conventional Per System page must be enabled

Disable Call Guard (PL)
- Activating this feature causes the radio to ignore CTCSS/DCS in analog mode and NAC/TG in digital mode, enabling the user to hear all traffic on the frequency (differs from "Monitor" in that receive audio is muted unless the frequency is active)

Display Received Key ID
- Enables display of the encryption Key ID or Key Alias (if programmed), when a secure call is received
- Programmed on the PC Configure Radio Wide page under "Display Options"

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