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
- 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

For Questions regarding this Service Bulletin, please contact EFJohnson at 1-800-328-3911 press 3

EFJohnson Technologies • 1440 Corporate Drive, Irving, TX 75038-2401 • 800.328.3911 • 972.819.0700 • fax 972.819.0639  
www.EFJohnsonTechnologies.com
• 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:
  o SNDCP IP address provided by the P25 system…If not on a P25 system, displays “IP N/A”
  o 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

For Questions regarding this Service Bulletin, please contact EFJohnson at 1-800-328-3911 press 3
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

For Questions regarding this Service Bulletin, please contact EFJohnson at 1-800-328-3911 press 3
• 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”