

Smart Equipment Firmware Update 4.2.2.15 Instructions

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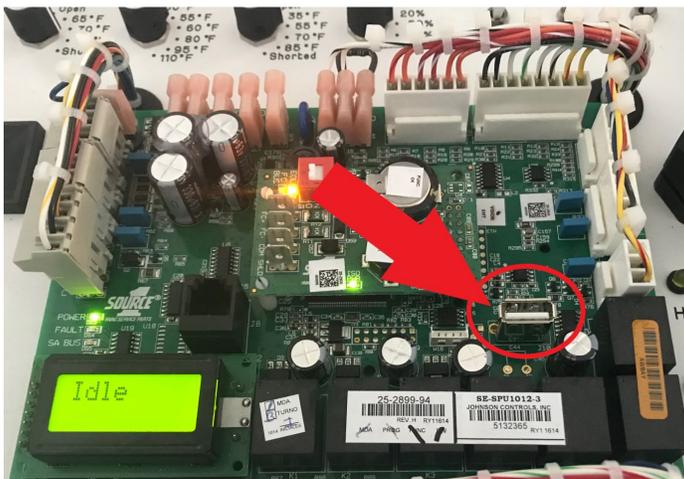
Below is the step-by-step process to upgrade firmware on Smart Equipment (SSE) to Version 4.2.2.15.

NOTE: A USB Stick is required for firmware updates on versions 2.0 or newer. The USB stick must be formatted to FAT32 or FAT and be 16 gigabytes or less.

Duration from start to finish is roughly 20 to 40 minutes depending on accessory boards present.

1. Unzip the 4.2.2.15.secusb.pkg.zip file to isolate the 4.2.2.15.secusb.pkg file.
2. Save the combined "4.2.2.15.secusb.pkg" file onto a USB stick.
 - a. **NOTE:** This package contains the firmware update for both the Unit Control Board (UCB) and Accessory Control Boards.
3. Plug the USB Stick with the 4.2.2.15 package file from Step 1 into the USB port on the UCB Board shown in Figure 1. The LCD display must read "USB OK."

Figure 1: USB Port on Unit Control Board



4. Through the local LCD display on the UCB with the joystick, navigate and select the firmware package to apply the update: Update>Load Firmware, select and confirm "4.2.2.15.secusb.pkg." Shown below in Figures 2 through 5.
 - a. **NOTE: DO NOT REMOVE THE USB.** While updating, the UCB will reboot twice automatically. Following the first reboot, the UCB will show either a blank home screen or a normal home screen containing some messages (ignore the messages). Roughly 2 minutes later, the UCB will display a message such as "FWU" and then commence a second phase of firmware updates. Upon completion of the second phase, the UCB will reboot a second time.

Figure 2: UCB Display Navigation with Joystick Toggle

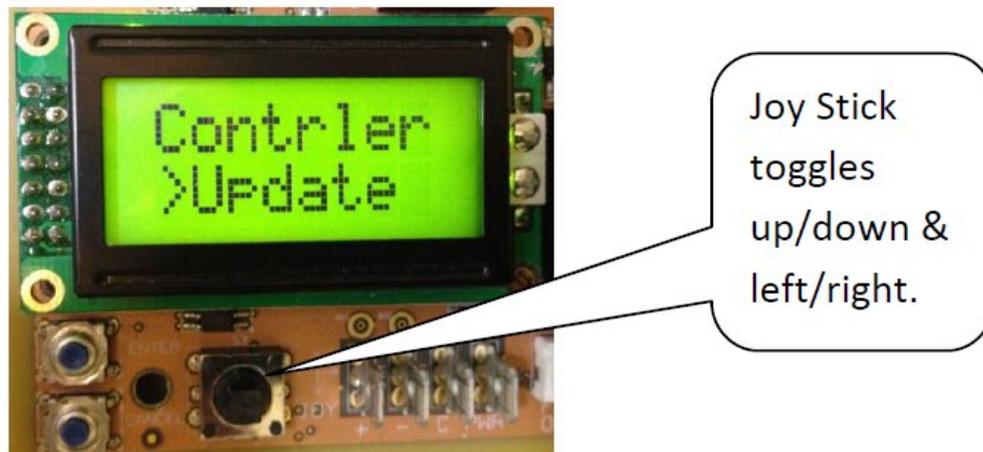


Figure 3: UCB Navigation with Enter and Cancel Buttons

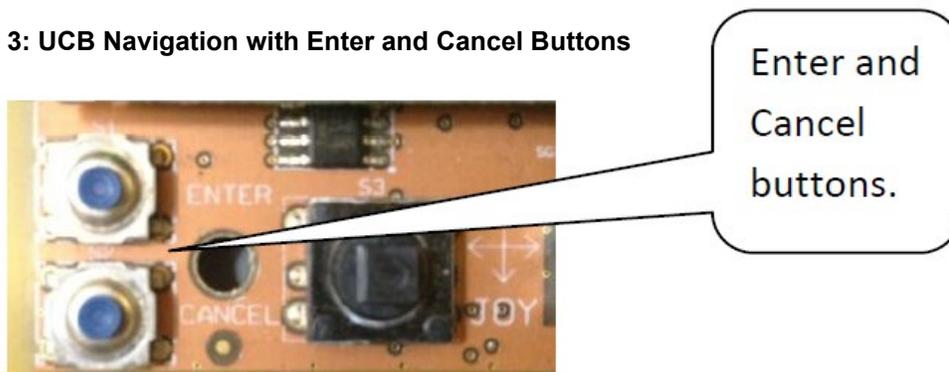
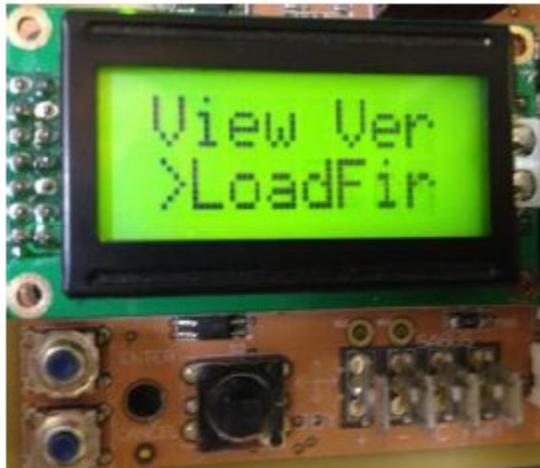


Figure 4: View Firmware Menu (Displays Current Firmware UCB Version)



Figure 5: Load Firmware (Selected to do Firmware Updates from USB)





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5. Upon completion of the install of the firmware update to the accessory boards, the UCB will automatically reboot for the last time and will be ready for normal operation. The entire process will take between 20-40 minutes to complete (depending on which boards are installed in RTU) and the LCD will display "FWU Complete" on the UI for 5 minutes after the update has completed (and revert back to showing unit status automatically after 5 minutes or after user interaction with the display).
6. Remove USB from the UCB.

For technical assistance, please contact Ducted Systems Technical Services at:

1-877-874-7378

Sincerely,

Dan

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