



Note: When a firmware update is released, it is available online at the Document Center on www.russound.com, in Firmware Software Updates under RNET Systems. The firmware update procedure may be modified, so always check for the latest version.

Requirements:

1. PC computer running Windows 95, 98, ME, NT, 2000, XP operating system
2. Available DB9 serial RS-232 data port (baud rate= 38400, data bits = 8, no parity, 1 stop bit, no flow control)
3. Advanced Programming Cable (Russound # 2500-521065)
4. Flash Magic - Philips IC update application (Flash Magic can be downloaded for free at: <http://www.esacademy.com/software/flashmagic/FlashMagic.exe>)

Note: The same A/C power circuit should be used for the keypad/system and the PC. Otherwise a ground loop may affect proper data transfer. A battery-powered laptop can also be used.

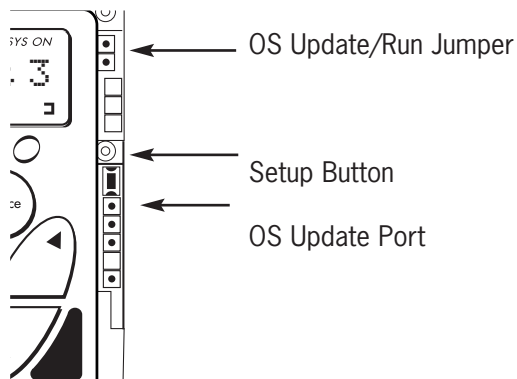
Update Procedure:

Two OS update methods are available: A and B.

Method A enters the OS Update mode through the keypad's Diagnostics Menu and requires no access to the rear panel of the keypad. Method B enter the OS Update mode by moving a jumper on the keypad's right side.

Method A: (Preferred Method)

Enter the Diagnostics Menu by holding the "Setup" button for approximately 4 seconds until "Diags" appears on the display.



The Setup button is located behind the trim cover plate on the right hand side of the keypad above the OS Update port. Once in the Diagnostics Menu, press the left or right arrow key until "Udate" is displayed.

Press the "Power" key to enter this feature.

Press and hold the "Power" key for approximately 2 seconds until "Start" is displayed.

Now the keypad is ready for update.

UNO-S1 Keypad Firmware Update Procedure

Method B:

Power down the controller.

Move the OS Update jumper on the side panel of the keypad to the Update position (on both pins).

Power up the controller.

At this point, the display will be backlit and blank but the buttons will be dark.

Connect the Programming Cable between the PC COM port and the keypad Update port.

Method A and B:

Start the Flash Magic application. If error messages appear, they are typically generated due to communication problems. Verify all connections.

Flash Magic Required Settings:

Step 1 - Communications:

COM Port: = COM port connected to on PC

Baud Rate: = 38400

Device: = XA-G49

Interface: = None (ISP)

Oscillator Freq. {MHz}: = 12.288

Step 2 - Erase:

Highlight "Erase blocks 0-4" by selecting each one.

Check "Erase all Flash + Security."

Step 3 - Hex File:

Click "Browse" button to select the new .hex file to be used.

Step 4 - Options:

Deselect "Set Security Bit 1-3" box.

Step 5 - Start:

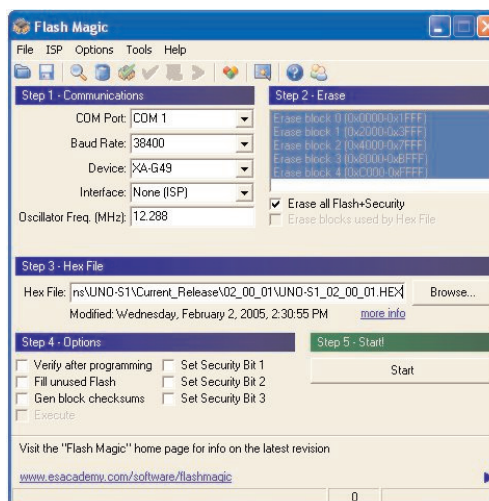
Click the "Start" button to begin firmware update. The status is shown at the bottom of the window.

Completion:

Disconnect the Programming Cable from the keypad and the PC.

(Method B: Re-position the OS Update jumper to Run.)

Cycle main power of controller off and on.



Technical Support: 8:00 AM ET to 8:00 PM ET 866.888.7466 (toll free in the USA) or 603.659.5170 www.russound.com

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