

## SN3308 EHSI Instructions for update to software version 2.30

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Date: August 27, 2008

Regarding: SN3308 software update to version 2.30

### Introduction

This section describes the procedure to update an SN3308 to software version 2.30.

### Hardware Requirements

- PC with Windows Vista, XP or 2000 with available serial port. (If the PC only has USB ports, a USB-to-Serial adapter such as the Radio Shack™ part number 26-183 or similar must be used to interface with the SN3308.)
- Data loader cable. (Not supplied by Sandel. Refer to Appendix A for wiring diagram of cable.)

### Special Notes

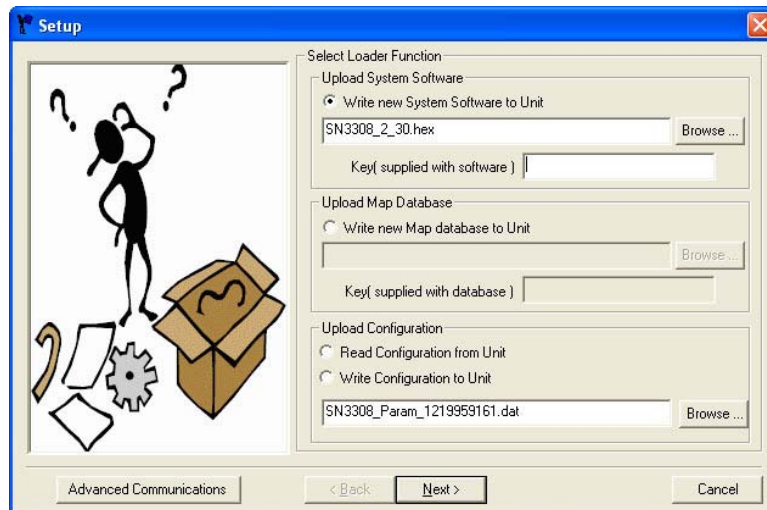
- Software version 2.30 is optional and requires the purchase of a key code from Sandel to enable the update.
- Updating software must be done by a qualified avionics shop.
- The SN3308 must be at MOD-1 or MOD-2 status to accept this software update. (If unsure about the MOD status power-on the SN3308 and check the current software version which will be shown briefly at the top of the display. If the software version is 1.32 or higher, then the unit will accept this new software update.)
- The software update may take up to 15 minutes to complete. If using a laptop computer ensure that sufficient battery power is available. Using a USB-to-Serial adapter will slow the data transfer rate and increase the amount of time required for the software update.

### Upload Instructions

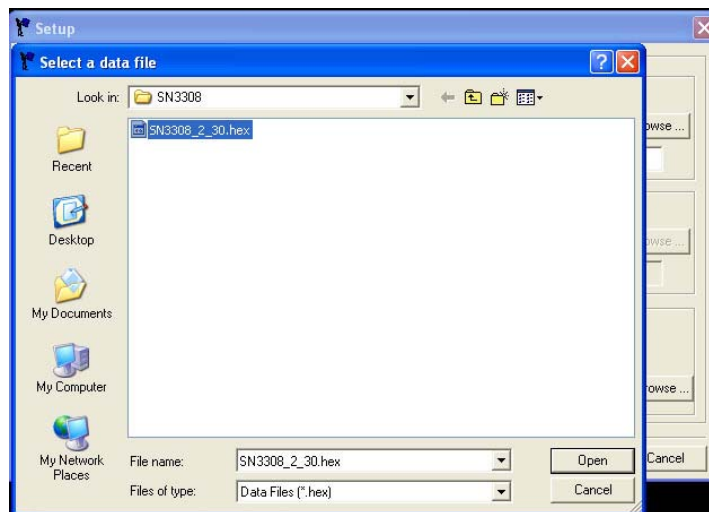
1. Download the SN3308 software update file from the Sandel website.
2. Double-click on the file to uncompress.
3. With power removed from the SN3308, connect the SN3308 to the PC via the data loader cable. (The location of the input jack for the data loader cable will vary by aircraft.)
4. Power-up the SN3308.
5. Open Windows Explorer and locate the **SN3308 Loader\_2\_50.exe** file. The default location will be in 'C:\Sandel\SN3308'. Double click on the

SN3308\_Loader\_2\_50.exe file to start. (Note: Loader programs used for other Sandel products will not work with the SN3308.)

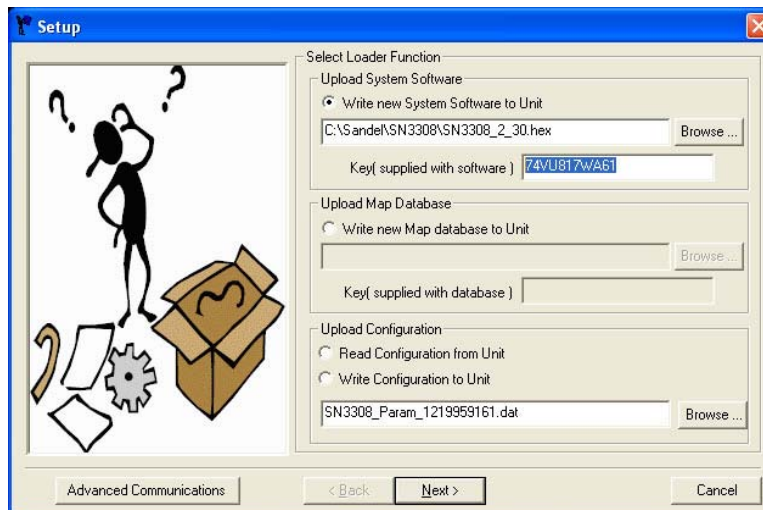
6. The Setup screen will appear. (Example below.) Select the option for **‘Write new Program to Unit’**.



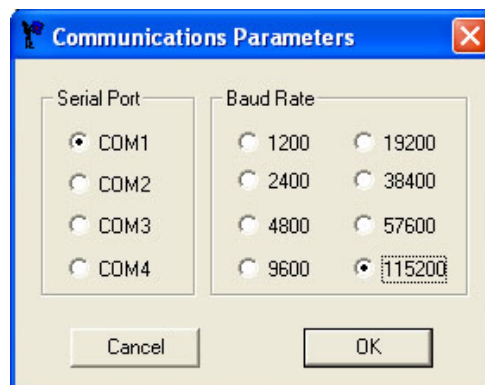
7. Click on ‘Find’ and locate the file ‘SN3308\_2.30.hex’. The default location for this file is ‘C:\Sandel\SN3308’. Highlight the file and click on ‘Open’.



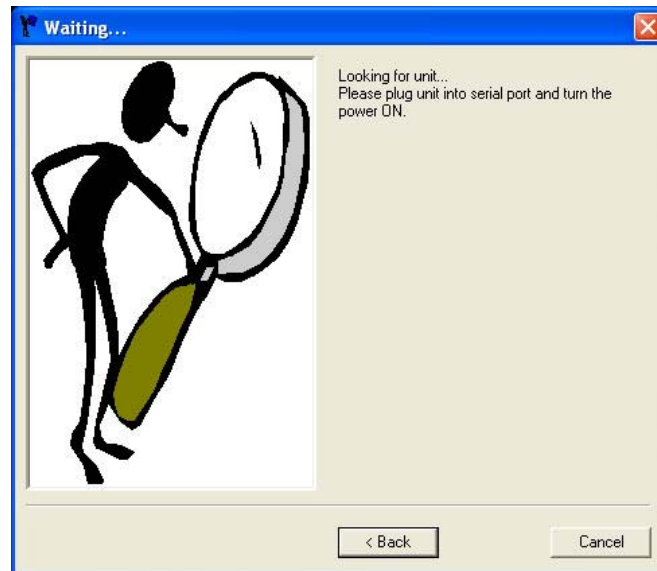
- On the Setup screen enter the key code purchased from Sandel in the 'Key' field. The key code is not caps sensitive.



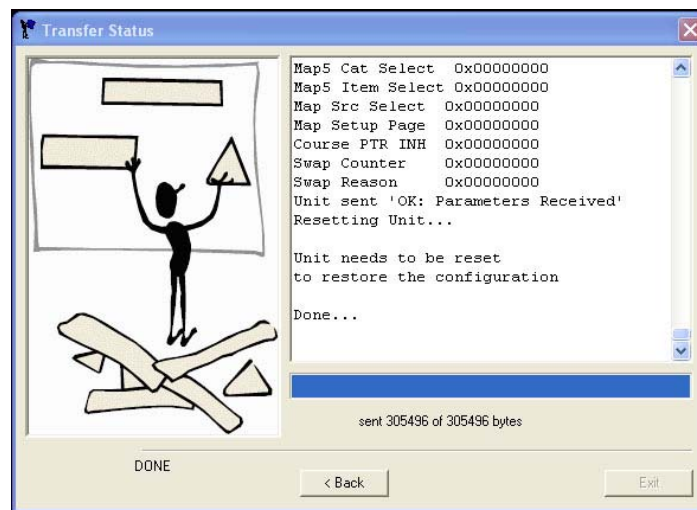
- On the Setup screen click on 'Advanced Communications' and select the appropriate Serial Port setting. (COM1 is the default setting. A USB-to-Serial adapter may require changing the setting.) Select '115200' for the Baud Rate and click on 'OK'.



10. Click on 'Next'. A message that the program is looking for the unit will appear for a few seconds. If this message remains on the screen then the PC is not communicating with the SN3308. Check all cable connections between the PC and the SN3308.



11. Once communication is established, the software file will be transferred to the SN3308. The SN3308 will automatically shutdown and restart at the end of the software update. Do not manually remove power or disconnect the data loader cable until 'Done' is shown.



12. Close the program by clicking on the red 'X' at the top right of the program window. The data loader cable can now be removed from the data loader jack and the PC.
13. Power down the SN3308 and wait 30 seconds. Power-up the SN3308 in normal model. Verify that software version 2.30 is shown at the top of the display during startup. If a message 'CRC Self-Test Failed' appears then the software update was unsuccessful and must be repeated.
14. Power-down the SN3308. Power-up the SN3308 in maintenance mode by pressing and holding the SHFT and A-B keys while applying power until the display is visible. On Maintenance Page 2, verify the selection for GYRO TYPE. If the aircraft is using a Mid-Continent DG it will be necessary to change the setting back to MID-CONT DG following the software update. On Maintenance Page 12, verify that the settings are appropriate for ARINC 429 operation. Set ANNUN to SERIAL and DEVIATION to SER DATA for LNAV1 and/or LNAV2.
15. Print out the updated SN3308 Pilot's Guide Effectivity and Errata PDF file, 82001-PG-ERR-2\_30.pdf. The default location for this file is in 'C:\Sandel\SN3308'. Place this version in the SN3308 Pilot's Guide binder and remove previous versions.

## Troubleshooting

**Error message 'Program Key not valid' appears when attempting to upload the software:** Verify that the key code was entered properly. If the error message continues verify the serial number of the SN3308 by removing the unit and visually inspecting the data label. The key code is serial number specific.

Please contact Sandel Product Support if there are any questions with this procedure:

Phone: 877-726-3357 or 760-727-4900 ext. 2

Email: [support@sandel.com](mailto:support@sandel.com)

**END**

## Appendix A SN3308 Data Loader Cable

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