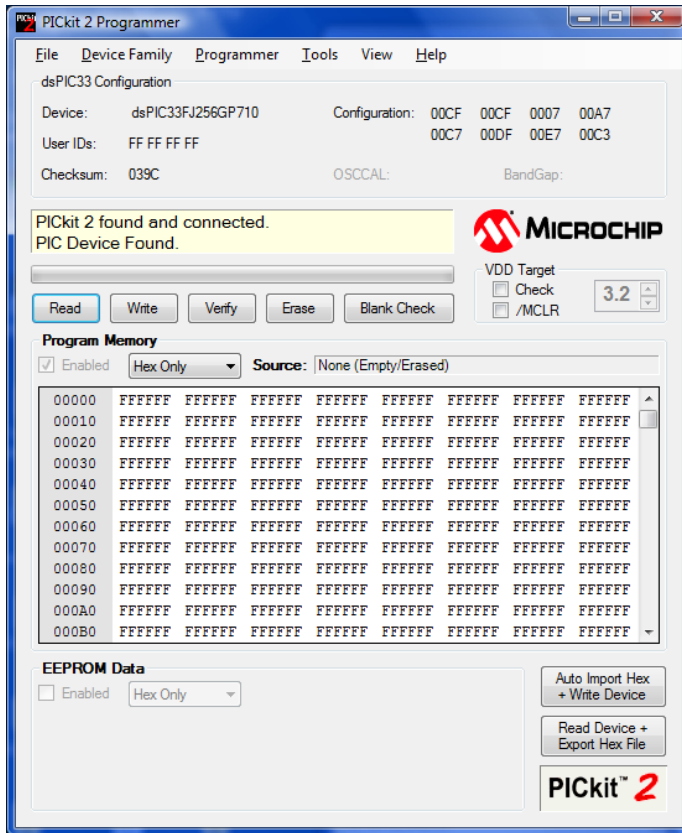


Updating DSG Firmware

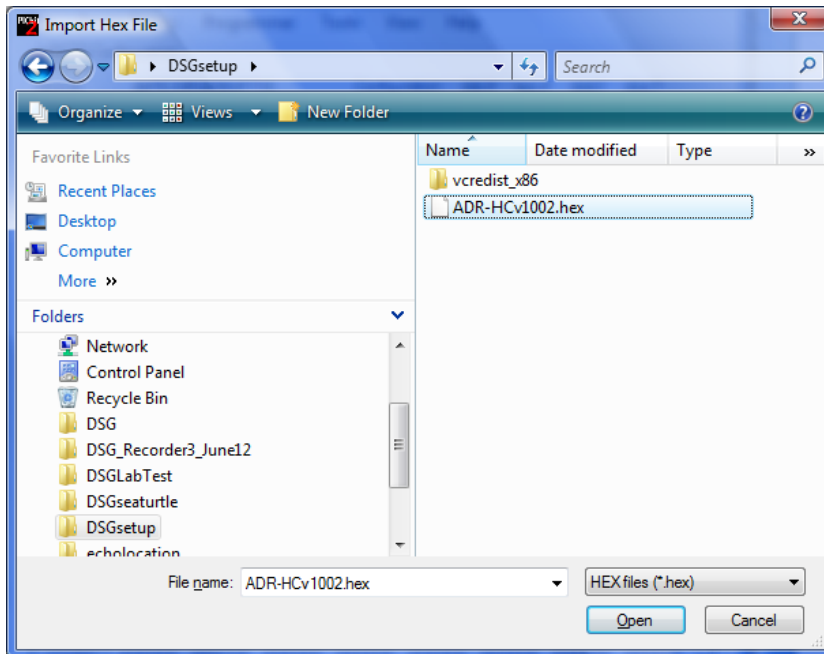
1. Download DSGsetup.zip from www.loggerheadinstruments.com, and unzip the file. This contains the ADR-HC.hex file that is to be programmed to the DSG microcontroller chip as well as the installation for the latest DSGschedule and DSG2wav programs.
2. If this is the first time updating firmware, install PICkit2 drivers from CD. (You do not need to install the MPLAB IDE CD).
3. Connect PICkit2 programmer to PC USB port. Note that once you launch the PICkit2 software, you may need to go to the Tools menu and click Download PICkit 2 Operating System to set up the programmer.
4. Connect PICkit2 programmer to DSG board. The arrow on the PICkit2 programmer should be on the pin closest to the black connector on the board. The two pins closest to the SDHC end of the board are not connected to anything. Make sure SDHC card is not in the DSG board.

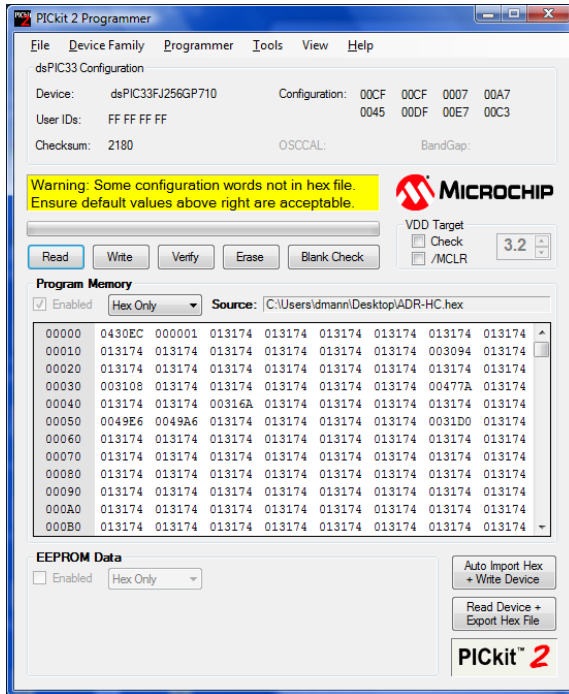


5. Connect Power to DSG board through regular housing battery pack.
6. Launch PICkit2 Programmer Software (located in Microchip Folder in Program Files). The program should find the PICkit2 and the PIC Device (which is the DSG board).

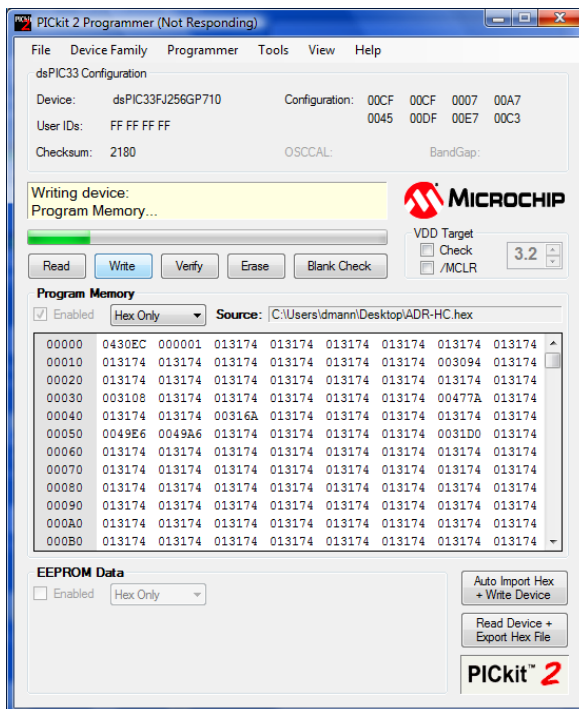


7. Click Erase. This should stop the red lights from blinking on the DSG board.
8. From File menu, select Import Hex, and select ADR-HCvxxxx.hex from the DSGsetup folder (wherever you unzipped it). You can ignore the warning window that comes up.





- Click Write to update the Firmware. This process will take a few minutes. When it is complete the red lights on the DSG should blink on and off.



- Disconnect power from DSG board. Disconnect PICkit2.
- Test DSG with new schedule file created using the latest version of DSGschedule.