



## DESCRIPTION

moltools™ installs software that is intended to be used with molblocs™ and molbox1s™.

## GENERAL INSTALLATION

Install moltools by running setup on the installation disk. mol\_Load and the Analog Calibration software are copied to the PC and their icons will be added to the moltools program group. Before running either of these programs, attach a molbox1 to one of the PC's RS232 communications ports and turn it on. When the program starts, it will search for molbox1 on both COM1 and COM2 with the default molbox1 communications settings of 2 400 baud, even parity, 7 data bits and 1 stop bit. If molbox1 is not detected, a status message will prompt you to setup the communications before continuing. To set up the communications, choose the communications menu option, select the correct settings and press OK.

The Analog Calibration software is only used with molbox1s that have an MFC option installed. If your molbox1 has this option refer to the Analog Calibration manual for details on this program.

## USING mol\_LOAD

This program is a restoration utility for molblocs and molbox1s. When molbloc EEPROM data is corrupted, options 3.1 or 3.2 should be used to correct the problem. If a molbox1-95 software upgrade is available, option 3.4 should be used to upgrade the unit. In either case make sure the correct file is selected.

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- *Prior to use, contact DH Instruments Technical Service to request the latest data file(s) for your molbloc(s) and/or molbox1(s). The file(s) can be transmitted via CompuServe®, E-mail or 3.5" diskette.*
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## File - Restore molbloc

Select the Restore molbloc option under the File menu. Select the molbloc restore file from the file box that appears. The filename should be the serial number of the molbloc followed by a '.brs' extension. The software will first attempt to verify invalid EEPROM data. When invalid data is verified, a status message reflecting this problem is printed in the upper left corner of the form and the molbloc is restored. If it turns out that the molbloc does not have invalid data, the user still has the option to rewrite the data anyway. Repeat this procedure for as many molblocs as necessary. Select Exit from the file menu to quit the program.

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- *Turn off molbox1 while connecting and disconnecting molblocs.*
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## File - Special Restore

Certain types of EEPROM corruption can cause molbox1 to 'lock up.' This is evident when blocload returns a Time-Out error. Before assuming this is the problem, make sure that all of the PC and molbox1 connections are secure. If the connections are secure and the Time-Out error persists, turn off molbox1, power it back on and run the Special Restore option under the File menu. The only difference between the Special Restore option and the Restore molbloc option is that molblocs are immediately initialized and corrected after the Special option is selected. The Restore molbloc option attempts to first verify invalid data on the EEPROM then restore the molbloc. This verification may fail on molblocs with extreme corruption.

### **File - Read from Flash to File**

To save the current flash file in molbox1, read it using this option and save it to a file that you specify. If communications have not been established, you must enter the communications port of molbox1 when prompted. Enter a number representing the desired com port. To get molbox1 into flash mode, follow the program display by turning the molbox1 power off, selecting OK and turning it back on when the program displays "Sending". Once in Flash mode, the data is read and written to the specified file. A status message displays the current Hex address as the reading process continues. When the process is complete, cycle the molbox1 power to return it to normal operation.

### **File - Write to Flash From File**

To upgrade molbox1-95 software, select this option and the corresponding flash file from the filebox that displays. The procedure from this point on is identical to the previous option in Section 3.3. mol\_Load will first erase the current flash file, write the new one, then read it back to verify the process. When the exchange is complete, cycle the power on molbox1 and press enter to the options that follow to complete the upgrade process.

## **TROUBLESHOOTING**

During the verification process there may be molbox1 error messages displayed. This is usually caused by corrupted EEPROM data and nothing to worry about. Select OK to close any of these messages and continue.

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