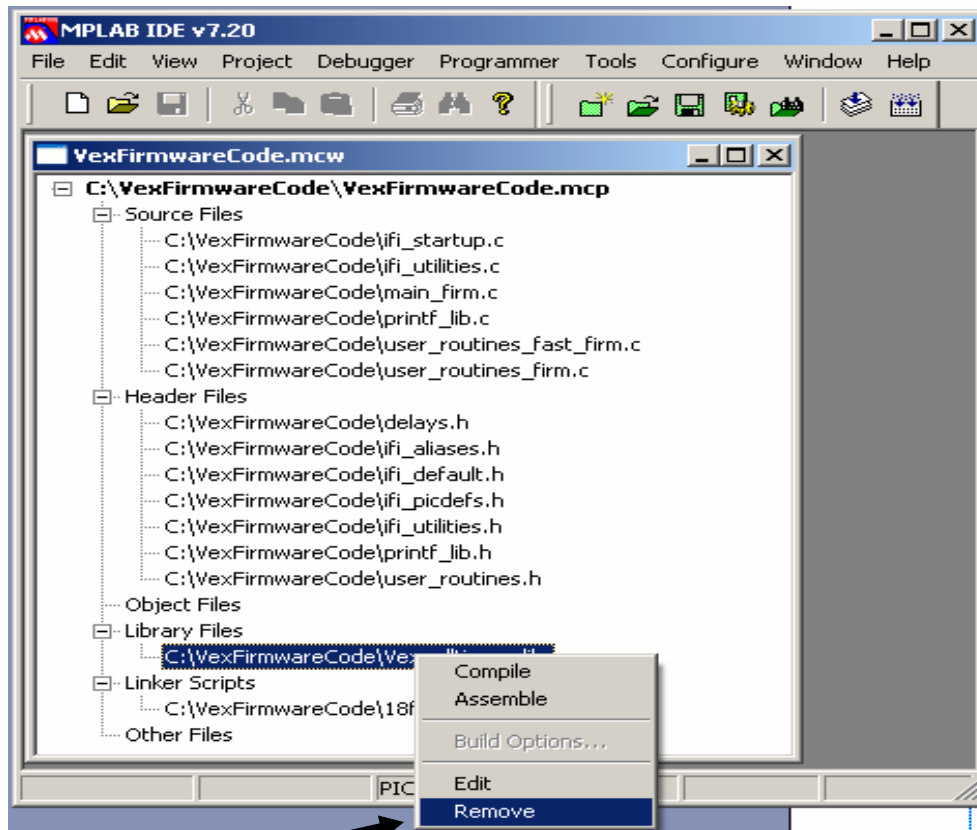
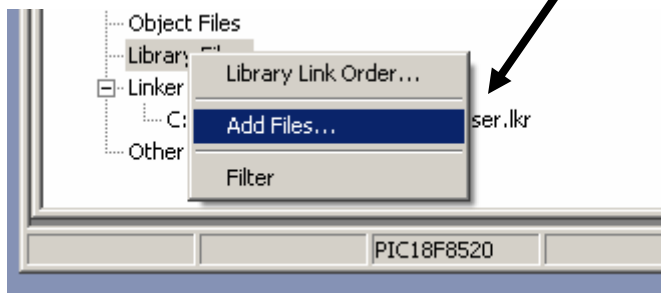


# Using Autonomous Mode

This information is intended for those using MPLAB and the C18 compiler. You must download the file 'VEX\_MASTER\_V7.BIN' to your controller to run autonomous mode correctly (UpdatingMasterFirmware.pdf explains how to do this). You must also add the appropriate library (see **Page 2** for details) to your project file. To do this, do the following (assuming you know how to open your workspace):



Remove the current library, then select 'Library Files->Add Files...' (after selecting, - a right mouse click will bring up the sub-menu)



Once the appropriate library file has been selected and added to your project file, recompile the project then download the user code to your controller.

Your controller will run the autonomous section of code (located in the user\_routines\_fast\_XXXX.c file) from **power-up along with a valid receiver signal**. The controllers' EYE will flash rapidly when autonomous mode is active.

**When competing use :**

**'Vex\_alltimers\_wauton\_jmpr.lib'**  
**or**  
**'Vex\_library\_wauton\_jmpr.lib'.**

**These libraries use interrupt pin 6 to determine whether or not you want to run competition code. The autonomous duration is set for 20 seconds. The operator match duration is set for 2 minutes and 30 seconds. After the duration time expires, the user processor will halt until power has been recycled.**

When debugging your autonomous code use:

**'Vex\_alltimers\_auton\_test.lib'**  
**or**  
**'Vex\_library\_auton\_test.lib'.**

Either library may be added to your project (via the former procedure) to enable autonomous testing. The debug libraries enable a user to put the controller in or out of autonomous mode. After reloading your user code, autonomous can be activated by pressing (then releasing) the top left button on the transmitter (channel 5). Autonomous mode is deactivated by pressing the top left button again. We recommend not using user related functions associated with this button while this library is intact. When the controller is in autonomous mode (using the button) the EYE will not flash rapidly since the user processor simulates the autonomous mode.

If you want to remove autonomous mode from your user code then replace the '...wauton\_jmpr.lib' (or the '...auton\_test.lib') library file with 'Vex\_alltimers.lib' or 'Vex\_library.lib'. Once this is done, recompile your project then redownload your user code.

The README.txt file (located in the project directory) contains information about the latter libraries.