MASM 6.15 Configuration Guide

Step 1:

If on-campus, open a web browser and navigate to http://intraweb/~rh/modules/hca2101/tools.html and **save the MASM6.15 zip file on your PC.** If off-campus, navigate to http://202.123.21.122/~rh/modules/hca2101/tools.html and **save the MASM6.15 zip file on your PC.**
Extract the **masm615.zip file** on your lab PC or home PC to a suitable location, e.g. on the root D:\ drive
Open a DOS window by typing **Start -> Run**. Type **cmd** and press **Enter**.
Set the path at the prompt e.g. *path D:\masm615\bin*
Next, type **PWB** and press **Enter** to invoke the Editor.

Step 2:

The editor must be configured to assemble the program in the desired format, i.e. EXE, COM, etc. Configuration is accomplished by using the Options pull-down menu. Select the **Options** menu and choose the **Project Templates** entry. Next choose the **Set Project Template** entry from the next directory. (*See figure below*)


Figure 5-2a
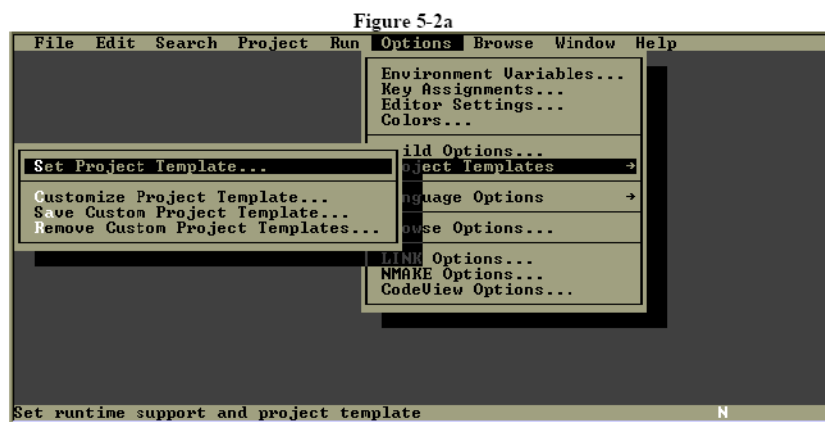
The figure below illustrates the Set Project Template dialog box.
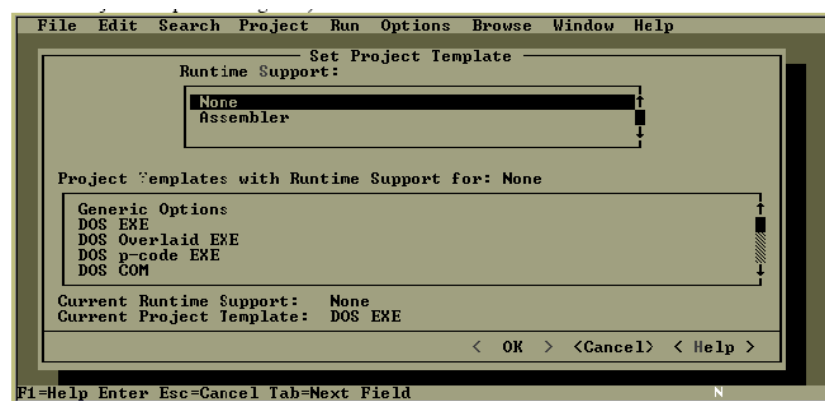
The Runtime Support section allows the choice of **None** or **Assembler**. The normal choice is **None** because most programs don't require Runtime support from a separate Runtime library. Runtime libraries are normally provided for mixed language programming. (Assembly with PASCAL, BASIC, C/C++, etc.) or for Windows programming. Next select the **DOS.EXE** entry to generate a DOS executable file as the target for the assembler and linker. Once **None** and **DOS.EXE** have been selected choose **OK** at the bottom of the dialog box.

Step 3:

Now that the Project is defined, select the **Build Options** from the **Options** menu. This determines the type of program developed by the assembler and builder program. There are two build options presented, one selects the release version and the other the debug version. In most cases it is prudent to use the debug version for testing before release. Select the **Use Debug Options.** (*See figure below*)
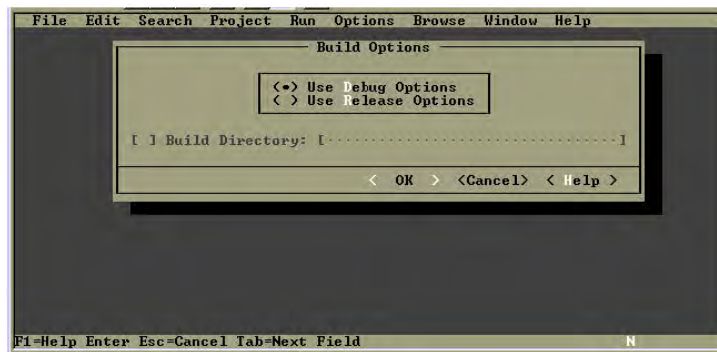
Step 4:

Next, select the **Language Options** from the **Options** menu**.** Now select **MASM Options** menu. (*The Figures below show the Macro Assembler Debug Options menu, and how to get there*) Note it may also be a good idea to indicate that warnings *are not* to be treated as errors.

Figure 5-3b

Figure 5-3c
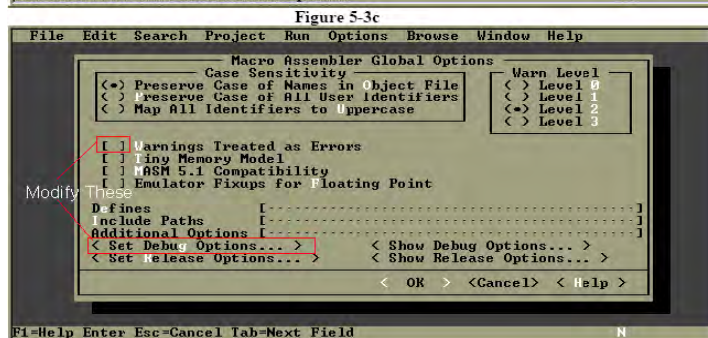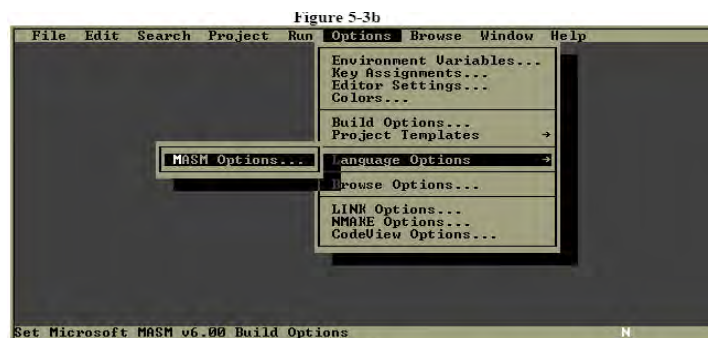
Next Select **Set Debug Options**. In most cases you will need to select the **Generate Listing File** feature from this list if it is not already selected. Other options include instruction timings, source lines, and so forth. The Generate Listing File feature causes the assembler to generate not only the EXE file, but also a .LST (listing) file. The listing file contains the source program and the object program in one listing. The listing file is often used as printed program documentation.