

ARJENT® INTERFACE MODULE CLONING WITH EPIC USB PROGRAMMER

This instruction sheet provides a step-by-step instruction for cloning the Arjent interface module with the Epic USB programmer.

A. *Installing the Software.*

Follow these steps to install melabs programmer software on your PC:

1. Insert the melabs Programmer software CD into your CD-ROM drive.
2. The Melabs Programmer software CD will automatically* launch the installation screen.

NOTE

If autorun is disabled, or if autorun fails to initiate, browse your computer's hard drive by double-clicking on My Computer icon and browsing the CD ROM drive. Double-click on setup.exe to install the melabs Programmer software.

3. Click the next button on the screen and follow the instructions that will step you through the rest of the installation process. See figure 1.

B. *Installing Hardware - melabs USB Programmer.*

1. Connect the melabs USB Programmer to a PC USB port using a USB A-B cable.
2. The first time the melabs USB Programmer is connected, Windows will locate the appropriate USB HID driver for it. Windows may ask for Windows' own original installation CD during this process. If so, click the next button on the screen and follow the instructions that will

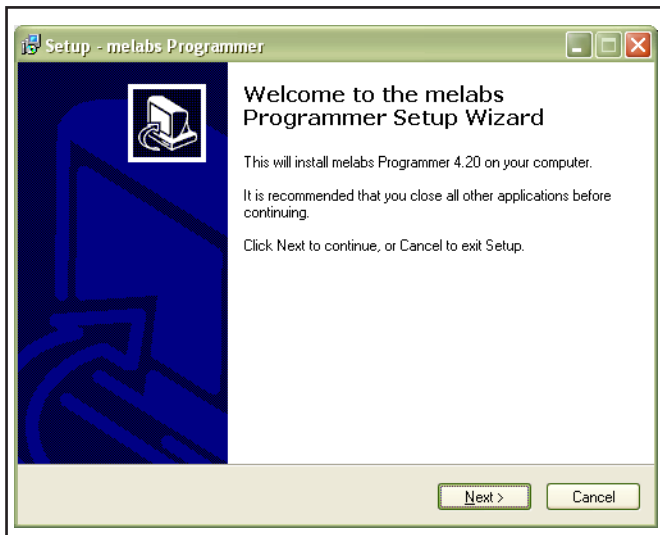


Figure 1.

step you through the rest of the USB driver installation process. See figure 2.

3. The LED on the melabs USB Programmer will glow green to indicate it is ready. Do not insert or remove a PIC® MCU when the LED glows red.

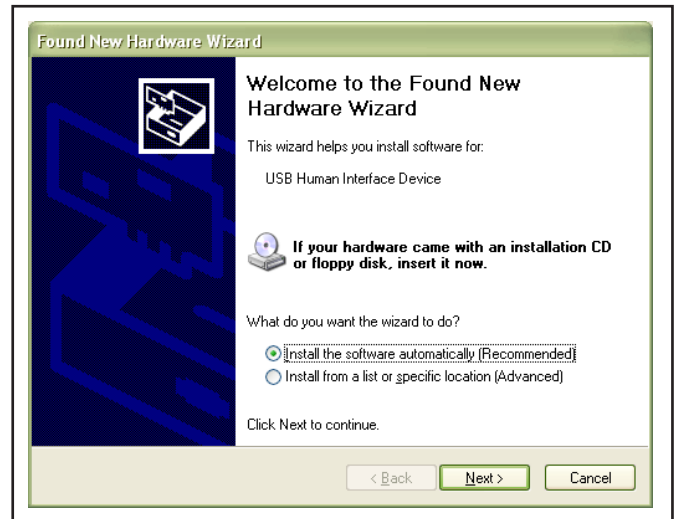


Figure 2.

C. *Connecting Epic Programmer with Arjent S2 Interface Module.*

1. Connect the supplied in-circuit programming cable to the USB Programmer.

NOTE

The Epic side of the in-circuit programming cable gets connected to the USB Programmer on the inner five header posts. See figure 3.

2. Next, remove the four (4), #8-32 hex hd. screws from the interface module cover.

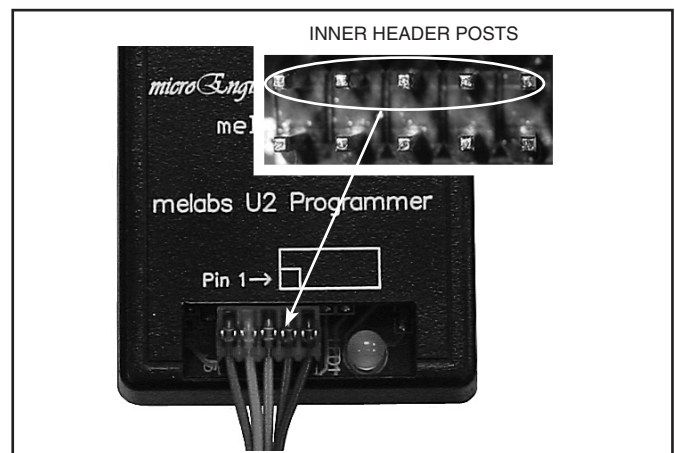


Figure 3.

3. Take the other end of the in-circuit programming cable and connect it to the Arjent S2 interface module's programming header. See figure 4.

NOTE

Cloning only transfers the programmed flash patterns. If you have changed default jumper and switch settings on the cloned lightbar's controller and Serial Interface Module and want to duplicate them vehicle to vehicle, you must set them manually.

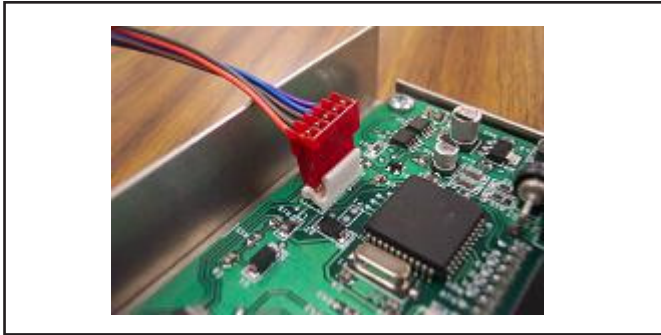


Figure 4.

D. Cloning the program from interface module.

1. Start the Epic Programming software by clicking on *Start-> Programs-> melabs Programmer-> melabs Programmer*. Once the programmer is up and running, it loads a form. See figure 5.

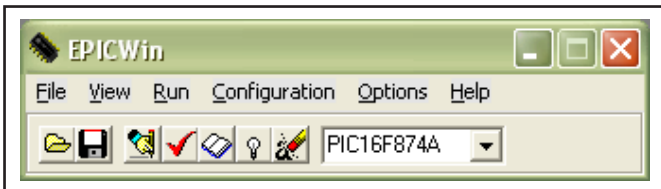



Figure 5.

2. In order to upload the correct program from the interface module, the correct processor has to be selected (PIC16F877A) from the drop down menu. See figure 6.

3. While the USB Programmer is connected click on  Read button to download the program from the Arjent S2 interface module. A message box will appear in the center of the screen telling the progress for the downloading. See figure 7.

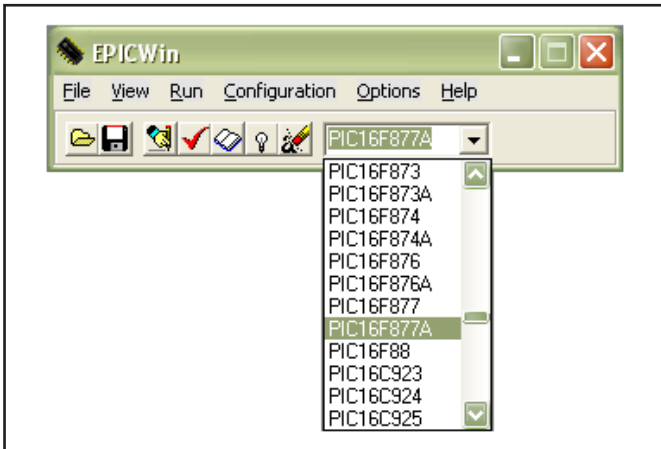


Figure 6.

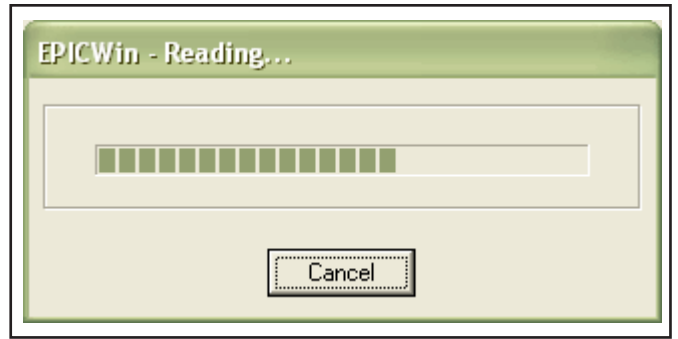



Figure 7.

4. Once the Epic programmer is finished reading the data from the Arjent S2 interface module, Disconnect the in-circuit programming cable from the programmed interface module.

5. Next, connect the in-circuit programming cable to a new interface module that needs to be cloned. See above for proper connection of new interface module.

6. After connected to the new module press  program button to start uploading the program to the new interface module. Another message box will appear showing the downloading progress. See figure 8.

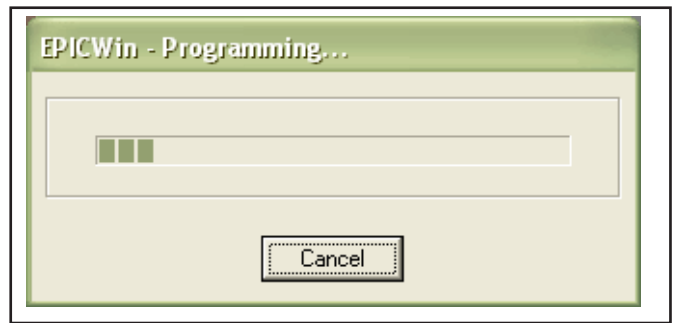


Figure 8.

7. After downloading is complete a message box will state it is complete. See figure 9.

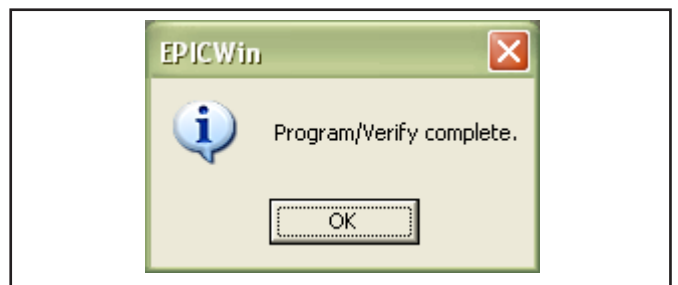


Figure 9.

8. Reinstall the covers on the source and target Interface Modules.

9. To clone another target Interface Module, repeat steps 5 through 7. Be sure to reinstall the cover when finished.

NOTE

For troubleshooting help, visit <http://www.melabs.com/support/epicfixs.htm> or contact the Federal Signal Service Department at 1-800-433-9132, 7 AM to 5 PM, Monday through Friday (CT).