

1 Introduction

The PICKit 2 Programmer-To-Go functionality allows a PIC MCU memory image to be downloaded into the PICKit 2 unit for later programming into a specific PIC MCU. No software or PC is required to program devices once the PICKit 2 unit is set up for Programming-To-Go. A USB power source for the PICKit 2 is all that is needed.

Information in this guide covers:

- USB Power for PICKit 2 Programmer-To-Go
- Supported PIC MCU Devices
- Memory Image Size Limitations
- PICKit 2 Programmer-To-Go Wizard Walkthrough
- LED Status Codes

Step by step guide on (PICKit 2) Programmer-To-Go

1. Install "PICKit 2 Programmer V2.50" on your PC.
2. Connect (PICKit 2) with PC, **Power** LED lit, as shown in figure 1.

"PICKit 2 Programmer" window pops up, 2 possible situations may be displayed depending on the previous setting of PICKit 2 V2.50.

Situation 1 - Message "No device Found" displayed, as shown in figure 3, click Programmer/ Manual Device select, as shown in figure 4, then continue with step 4.

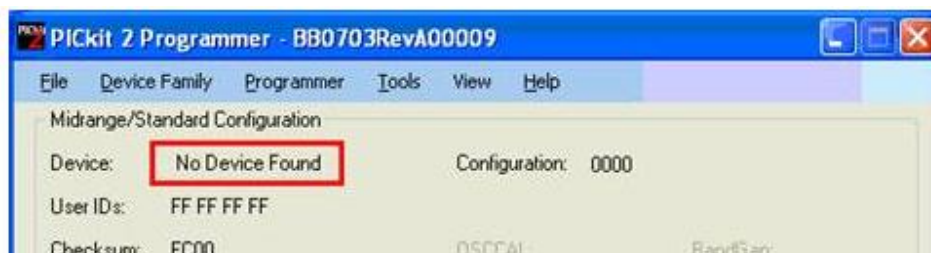


Figure 3 – Situation 1 - Message "No Device Found" displayed

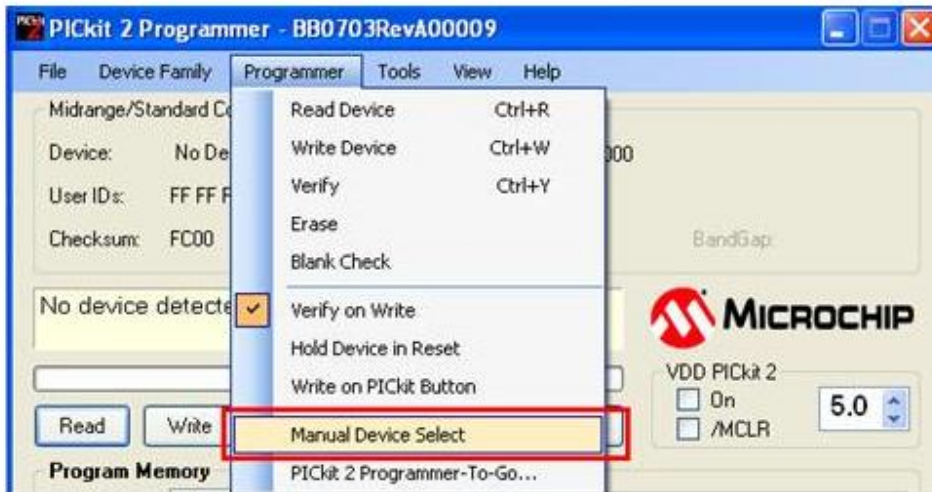


Figure 4 – Check “Manual Device Select”

Situation 2 - Message "-Select Part-" displayed, as shown in figure 5, continue with step 4.



Figure 5 – Situation 2 – Message “-Select Part-” displayed

4. Click **Tools/Check Communication**, as shown in figure 6

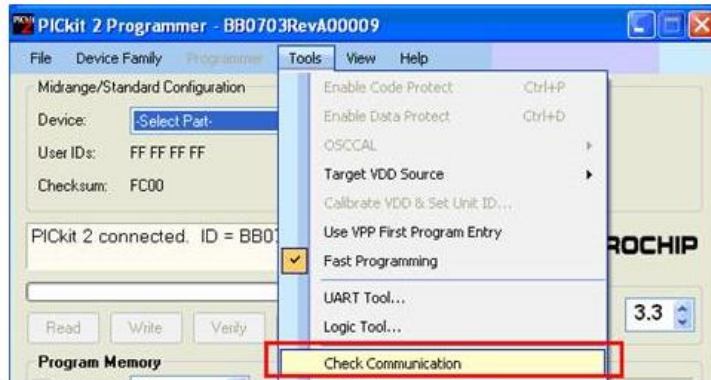


Figure 6 – Check communication

PICkit 2 Programmer displayed the message “PICkit 2 connected. ID = BB0703RevA00009 [Parts in this family are not auto-detect]”, as shown in figure 7.



Figure 7 – Message showing after check communication

- Click **Device Family/PIC18F**, as shown in figure 8. (PIC18F458 will be used here as the target chip for demonstration purpose)



Figure 8 – Select target chip family

- From the device dropdown list, select **PIC18F458**, as shown in figure 9

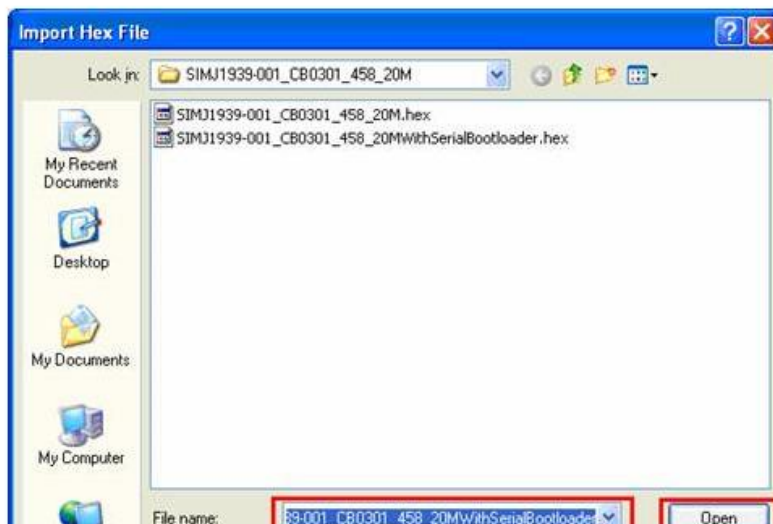


- Click **File/Import Hex**, as shown in figure 10.



Figure 10 – Import hex file

- Select desired hex file, then click **Open** button, as shown in figure 11



Message "Hex file successfully imported" displayed, as shown in figure 12.



Figure 12 – "Hex file successfully imported"

9. Select **Programmer/PICkit 2 Programmer-To-Go...**, as shown in figure 13.

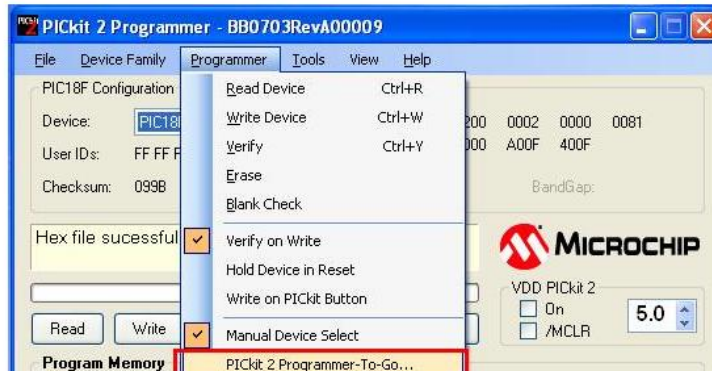


Figure 13 – PICkit 2 Programmer-To-Go

10. "Programmer-To-Go Wizard" window pops up, click **Next**, as shown in figure 14.



Figure 14 – Programmer-To-Go wizard

11. Select **Target has its own power supply**, click **Next**, as shown in figure 15.



- Download complete, **Target** LED on BB0703 (PICkit 2) blinks **twice** indicating programming successful. Remove BB0703 (PICkit 2) from USB, and then click **Exit**, as shown in figure 17. The BB0703 (PICkit 2) is ready for programming target chip.

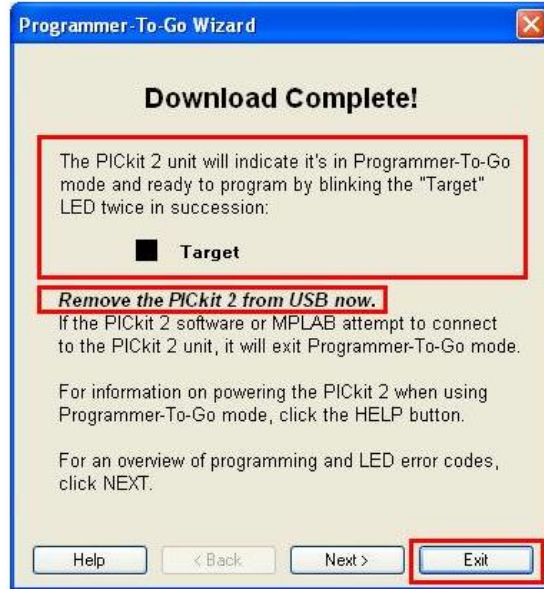
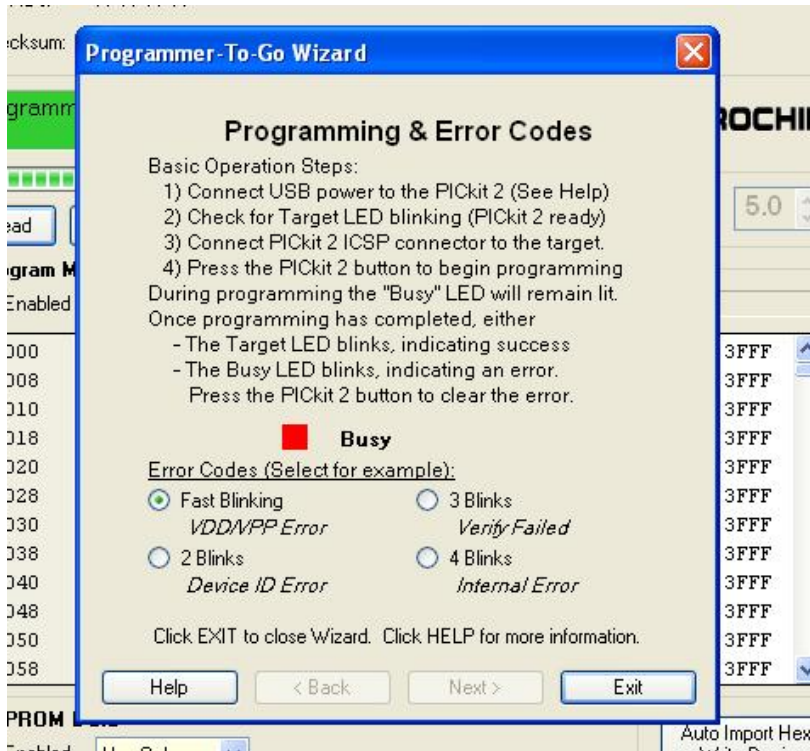


Figure 17 – Download complete

ERROR CODES WINDOW



Click to Exit - Your Code is Programmed to the Memory Now , Use Switch to Program Now

5 Using PICkit 2 Programmer-To-Go

To use PICkit 2 Programmer-To-Go to program a target device once it has been set up, follow the steps below.

- 1 Connect a USB power source as discussed in Section 2 of this document to the PICkit 2 unit.
- 2 Ensure the PICkit 2 “Power” LED is lit, and the “Target” LED is blinking twice in succession to indicate the unit is in Programmer-To-Go mode and ready to program.
- 3 Connect the PICkit 2 unit ICSP connector to the target. Ensure the target is powered properly if not powering from PICkit 2.
- 4 Press the PICkit 2 pushbutton to begin programming.

During the programming operation the PICkit 2 “Busy” LED will remain lit continuously. The “Target” LED will light if powering from PICkit 2, but will remain off if the target has its own power supply. When the programming operation is complete, the PICkit 2 unit will provide feedback on the operation via the unit LEDs. See table 5-1 for a list of display codes.

Target LED (Yellow)	Busy LED (Red)	Code	Description
2 blinks in succession:	Off	Success / Ready	No errors were encountered during the programming operation. PICkit 2 Programmer-To-Go is ready to program again.
Off	Continuous Rapid Blinking:	VDD / VPP Error	PICkit 2 was unable to set the VDD or VPP voltage to the expected value. If PICkit 2 is not providing VDD, then the error must be a VPP error. See Chapter 3 of the PICkit 2 Users Guide for VDD and VPP information.
Off	2 blinks in succession:	Device ID Error	PICkit 2 received an unexpected Device ID from the target. Ensure the target part matches that selected when PICkit 2 Programmer-To-Go was set up. May indicate a bad ICSP connection preventing PICkit 2 from communicating with the target. <i>Not applicable to Baseline devices</i>
Off	3 blinks in succession:	Verify Error	The target did not Verify successfully after programming. Ensure the target VDD meets the minimum required. With Baseline devices, this error may indicate ICSP communication problems.
Off	4 blinks in succession:	Internal Error	