

**Hercules OS Update**  
**Version 2.09**  
**Release Date: 01/16/2012**

**Changes in this update:**

1. New Feature:
  - a. Added the ability to adjust the PWM frequency between 67.5 and 196Hz.
    - i. Note that V-MUX System Designer will allow the entry of up to 200Hz, but anything beyond 196Hz is ignored.
  - b. If a value is not entered in V-MUX System Designer, the default is 120Hz.
  - c. Requires a Hercules-04 with PIC v6 or greater.
    - i. V-MUX Diagnostics v1.4.3 or later may be used to identify the PIC version of your Hercules node by using the Flash Information screen. As of this date, version 1.4.3 has not been released yet.
  - d. Requires V-MUX System Designer v1.8.9 or later.
2. Code Correction:
  - a. Corrected an issue with the Sync flag to correct an occasional pause in the 160FPM pattern.

**To Identify the PIC version within your Hercules node using V-MUX Diagnostics earlier than v1.4.3:**

Within V-MUX Diagnostics, under Settings/Network Options, place a checkmark next to Allow V-MUX Internal Commands and press OK to accept the warning dialog. Then you will press the Continue button to accept your settings.

Connect to the vehicle and detect the nodes.

Select and Mount the Hercules node that you want to find out the PIC version of.

In the Category List, choose Vmux Internal.

In the Command List, choose Get Embedded Version.

The On/Off button must be set to On.

Press the blue triangle to send the command.

The Hercules node will respond to the command with a Data Transport message. The data column will tell you what PIC version is installed on the node.

4 or (0x4) – PIC Version 4

5 or (0x5) – PIC Version 5

6 or (0x6) – PIC Version 6