



## Upgrading Your 3.2 Version ECM to 4.0 Firmware

A firmware upgrade is available for all 3.2 version ThunderMax modules. To identify your version, simply look for the number located near the 36 pin harness connector. Version 1.3, 1.4, 2.1 and 3.1 modules will have to be returned to Zipper's to be upgraded for 4.0.

To perform the upgrade, you will need **SmartLink IV** (available from [www.thunder-max.com](http://www.thunder-max.com)) software version **2006.14.14.0** or higher. To view your current computer software and module firmware, open SmartLink and link to the module. Go to the tool bar and select **Help** / **About SmartLink** to view the current firmware in the module and your current computer software version.

If your software needs upgrading (less than 2006.14.14.0), select **Configure** / **SmartLink Update** and follow the prompts to complete the upgrade. It will require broadband access to download the file. If you do not have access to broadband, call us and we will mail you a disc.

Once you have completed the software upgrade, you are ready to upgrade the firmware in the module. Select **Configure** / **Firmware** / **Check for Firmware Update** to view available firmware updates.

If more than one selection is available, pick the SmartLink IV version with the latest date. Currently named: **EFI\_THUNDERMAX-01\_Version40\_07-28-06.B19**  
Double click on the file to "auto load" for future use on your SML IV.

With ignition key and handlebar switch power on, select **Configure** / **Firmware** / **Update Module Firmware Now**. Perform each step listed precisely as prompted on the screen to prevent corrupting the module during the upgrade process.

Once complete you should see a prompt to **Clear IAC Module Offsets**. **This step must be performed**. If this screen does not appear, select **Tools** / **Clear IAC Module Offsets** before you proceed. Turn the key switch off 5 seconds; then back on. Once this step is finished, you are ready to proceed with new firmware.

While you are still linked, select **Module Configuration** / **Basic Settings** under the **Tuning Maps** tab. New features in 4.0 firmware require resetting to the following values:

<b>INITIAL FUEL PULSE</b> set to <b>199</b>	<b>IAC STOPS TARGET</b> set to <b>10</b>
<b>IAC MIN. LEARNING</b> set to <b>-10</b>	<b>IAC MAX LEARNING</b> set to <b>10</b>

Reinitialize the IAC by cycling the switch 3 times (on 60 seconds, off 30 seconds, x3) and your firmware update is complete. You can run the IAC-AUTO function now to have SmartLink automatically set the IAC stops if desired (see instruction booklet).