



THUNDERMAX

EFI made simple.

UPDATING THE FIRMWARE IN YOUR THUNDERMAX TBW ECM

TMaxI Tuning Manual Excerpt **SOFTWARE Version 2010.1.3 For** **ThunderMax TBW** **For 2008-2010 TBW Delphi®-Based Air Cooled Motorcycles** **Manual V.20100217**

The ThunderMax EFI controller is not legal for use or installation on motor vehicles operated on public highways in the State of California or other States where similar emission control laws may apply.

The user shall determine suitability of the product for his or her use. The user shall assume all risk and liability in violation of regulations and any incurred financial obligations due to vehicle inspections or emissions tests.

Email Technical Questions to:
ProductSupport@ZippersPerformance.com
www.Thunder-Max.com

UPDATING THE FIRMWARE IN YOUR THUNDERMAX ECM

You can update the firmware, if an update is available, through the TMax Tuner software. **An Internet connection is required to download the Firmware.** Once the firmware file is downloaded to your PC, you do not have to be connected to the internet to upload the new Firmware to the ThunderMax ECM. You must be linked to the ThunderMax ECM to update the firmware in the module. There are two stages in updating the Firmware in the ThunderMax ECM.

Stage 1: Check for an update, and download the latest Firmware onto your computer.

Stage 2: Link to the ThunderMax ECM and follow the prompts to upload the new Firmware to the ThunderMax module.

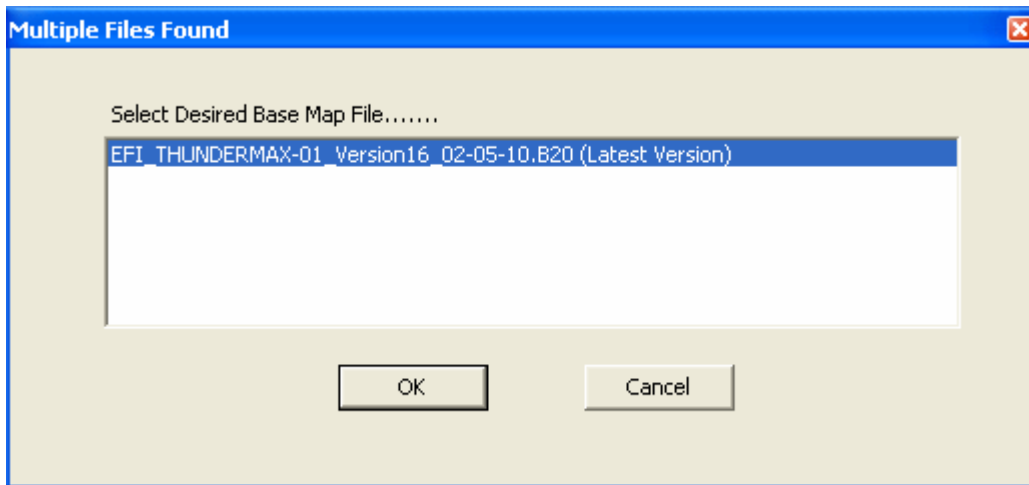
Both stages are fully covered in the following pages. Both require that you are linked to the ThunderMax ECM. The latest software will automatically link and read the module map and settings when the upgrade is initiated.

Stage 1: Downloading an Updated Firmware

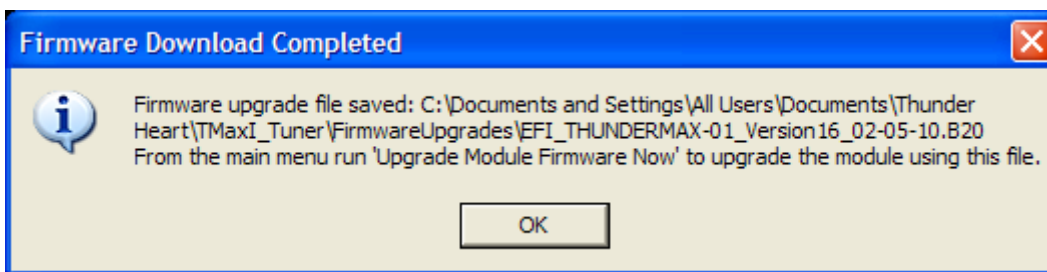
Select Configure > Firmware > Check for Firmware Upgrade to see if there is an updated Firmware available for your ThunderMax ECM.



If an updated firmware is available for your ThunderMax ECM, the following window will appear:



If you select the “OK” button, the firmware download will begin. Once completed, the following window will appear.



Stage 2: Uploading a New Firmware Version into the ThunderMax ECM

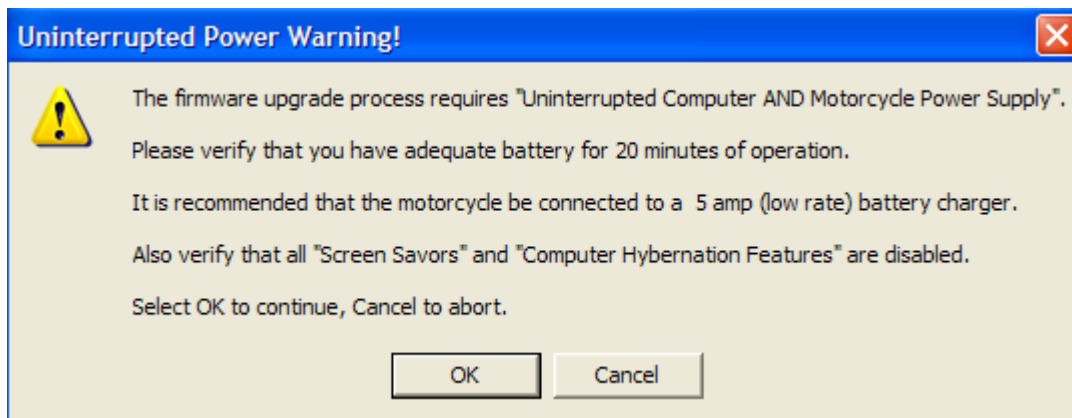
Link

Link to the ThunderMax ECM.

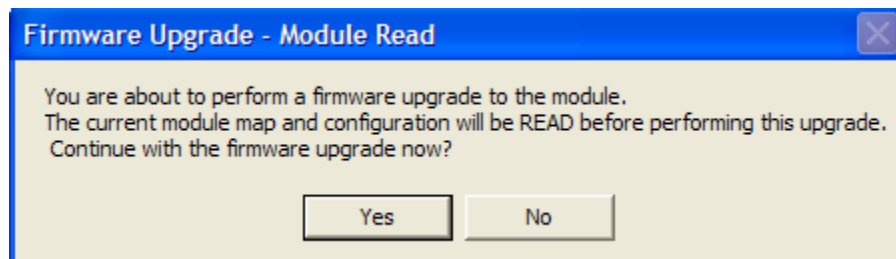
You must be linked to the ThunderMax ECM to perform any firmware upgrades. To upload the new Firmware to the ThunderMax ECM, select Configure > Firmware > Upgrade Module Firmware Now, as shown below. TMax Tuner will automatically read the map from your ECM when the upgrade is initiated.

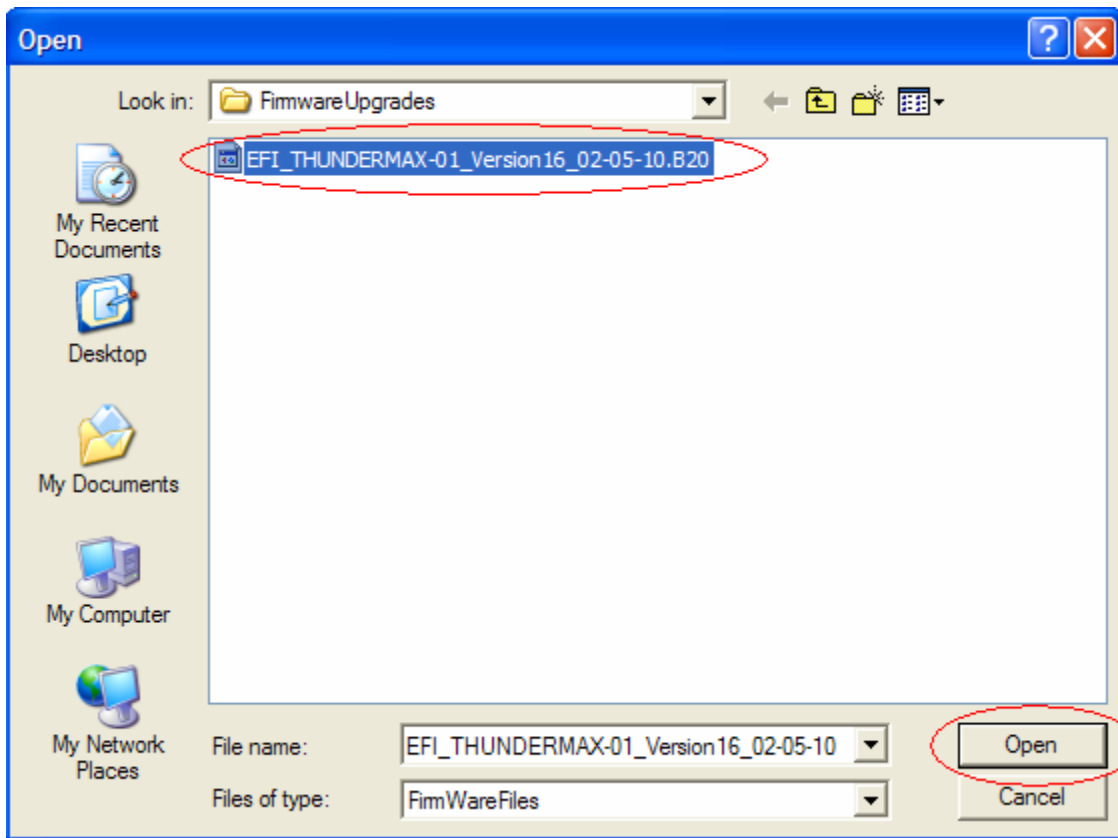


The following notice with suggestions to complete the firmware upgrade will appear:



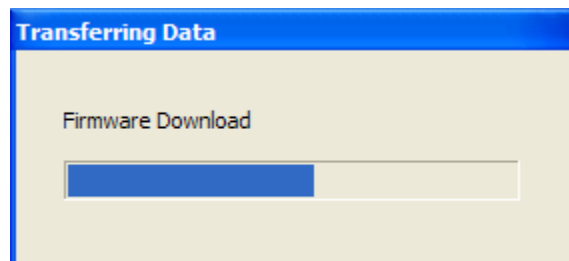
Once you have read this prompt and click ok the prompt below will appear.



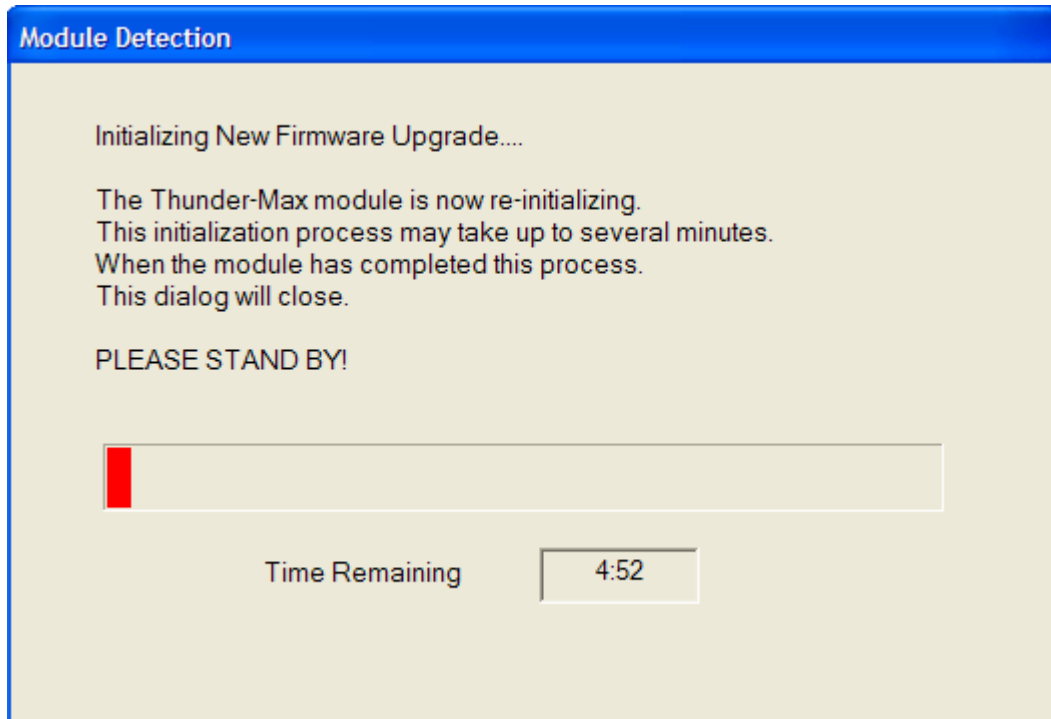


Select the most recent version of the firmware, and then select the “Open” button, as circled above. Once the file has been opened, the following window will appear titled “Module Detection.” Follow the prompts to continue the firmware upgrade.

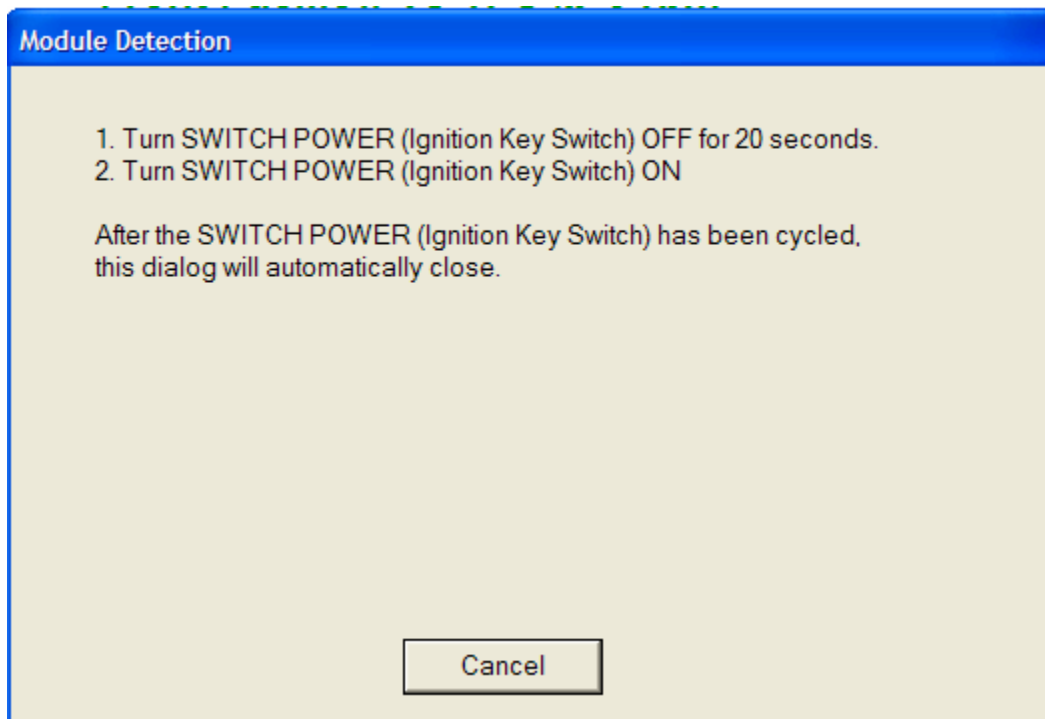
When the module power is turned back on after 20 seconds the firmware download to the module will begin as shown by the progress bar below. This could take as long as 5 minutes to complete.



Once the transfer completes, the “Module Detection” window will appear again with a progress bar showing the initialization of the new firmware and time remaining count down to completion.



Once the initialization completes, the “Module Detection” window will appear again.



Follow the instructions on the “Module Detection” window:

- 1.) Turn off the Ignition Switch for 20 seconds.
- 2.) Turn on the Ignition Switch

The software will automatically **re-write the “Module Maps and Settings”** to complete the Firmware Upgrade process.

The Firmware is now upgraded in your ThunderMax ECM. To confirm the firmware version on your ThunderMax ECM, simply open TMax Tuner, Link to the ECM, and select **Help > About TMax Tuner...**, as shown below. The “ThunderMax” window that pops up will display the current software and firmware versions. You must remain linked to view the firmware version.

