

## Updating ThunderMax Firmware Tmax Tuner Software

You are receiving this firmware upgrade file as an email attachment.

Save the file to the Desktop of your PC.

Once the firmware file has been saved 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.

**Note:** Removal of the headlight fuse is optional during the firmware upgrade. This will prevent unnecessary battery draw during the upgrade process **which will take 20 minutes.** The image below shows the location of the headlight fuse (circled in red) behind the left side panel.



ThunderMax Website www.Thunder-Max.com



## Saving the Firmware from an Email

1. Save the emailed firmware to your desktop.

a. Some email programs require right clicking on the downloaded file which opens a dialog box. From this dialog box you will select "Save As" which will open the Save As window.

b. Other email programs require left clicking on the downloaded file which opens the Save As window directly.

2. Click on the Desktop icon on the left side of the Save As window to choose Desktop as the "Save in" location. Make sure that the file is named in the File name line at the bottom and select "Save" to save the map.



ThunderMax Website www.Thunder-Max.com



## Uploading New Firmware into the ThunderMax ECM

Link to the ThunderMax ECM.

You must be linked to the ThunderMax ECM to perform any firmware upgrades.

Select Configure > Firmware >Firmware Upgrading Options

xII_TunerPlus	- HET	s4jvge	EMod003.slk	(FileBaseMap:HETS	4JVGEEMod003) EFI Clo	sed Loop
Editing Tools	Con	figure	Monitoring	TMax-AutoSupport	TMax-Trouble Shootin	g TMax-Mo
		Firmw	are Upgrading	) Options		AFR 0
		Produ	ct Configurati	on	•	)3) EFI Close
ו (Offset) vs Engine	vs Engine e Temper ure	Autho	orize Product			
s vs Engine Temper		Close	d Loop MODU	LE Settings		gine
Temperature		MOD	JLE Settings		•	
\$ 'DC		TMax	Software Upo	late		

Next a screen will appear that has three Firmware Updating options. You will choose the 3<sup>rd</sup> option, Manual Module Firmware Upgrade.

-Manual Firmw	are Upgrade (Special Firmware U	se Only)
Manual Module Firmware Upgrade (Advanced User Only)		
This option allows the user to select the firmware upgrade file from any location and perform a firmware upgrade to a LINKED module.		
This option is used typically when directed by TMax Support to load "Special" firmware upgrade files.		
	Apply Selected Option	Cancel

ThunderMax Website www.Thunder-Max.com



Locate the saved firmware file by clicking on the Desktop icon on the left side of the Open window. Select (highlight) the saved firmware and click Open.



Once the file has been selected and 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.

Transferring Data	
Firmware Download	

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

> ThunderMax Website www.Thunder-Max.com



Mod	fule Detection	
	Initializing New Firmware Upgrade The Thunder-Max module is now re-initializing. This initialization process may take up to several minutes. When the module has completed this process. This dialog will close. PLEASE STAND BY!	
	Time Remaining 4:52	

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 message below will confirm Firmware Upgrade Process Has Completed.

ThunderMax Website	Contact Email
www.Thunder-Max.com	Support@Thunder-Max.com





The software will automatically re-write the **"Module Maps and Settings**" to complete the upgrade process.

Writing AL	LL maps	

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 TMaxI Tuner**..., as shown below.

🚏 Thunder Max   TMaxl_Tuner   - H	ASSSJSAAN011110	.SLK (FileBaseMap (#0):HASSSJSA/
File EFI Maps Map Editing Tools Configure	Monitoring Window	Help [TMax Module Control Center]
Tuning Maps		ThunderMax Tuning Manual (pdf)
Front Cylinder Fuel Bear Cylinder Fuel	Battery Vol	USBSER Driver Installation Doc (pdf)
E Ide Curves	0.00 Vol	Online Help Documents
Air Fuel Ratio Curves	Front Cyl. Spa	ThunderMax WebSite
Ignition Timing VS TPS	0.00 de	Prepare and Send, Module Data Email
Air/Fuel-TPS @ rpm Module Configuration	Rear Cyl. Spar	Create and Send, Monitor Log Email
	0.00 de	About TMay Tupar
	Engine Spa	

ThunderMax Website www.Thunder-Max.com



The "ThunderMax" window that pops up will display the current software and firmware versions. You must remain linked to view the firmware version.

ThunderMax		
1	ThunderMax Version 2010.1.3	
Firmwar	e Rel. Date: 02-05-2010	[]
Firmwar	e Version: 1.6	ОК
Module	Identity: ThunderMax	Linnen
Firmwar	e ld #: TBW BigTwin	
Module	Serial #: 703000349	
Module	BaseMap: HBSSBBSAAN011110	
Copyright Thunder He	eart Performance Corp. (C) 2003-2009	

ThunderMax Website www.Thunder-Max.com