

THANK YOU FOR PURCHASING AN OV-TUNE!

*Steps below will be instructions for: Registering the software , Datalogging setup , and flashing a new file, Errors and fixes, **PLEASE READ ENTIRELY!***

INSTRUCTION STEP 1: DOWNLOADING AND INSTALLING YOUR MAZDAEDIT SOFTWARE

NOTE: YOU CAN ONLY REGISTER TO ONE LAPTOP PC IF YOU NEED TO REGISTER TO ANOTHER YOU MUST CONTACT EPIFAN!!

Step 1:

Download the mazdaEdit software with the link provided in the email

Step 2:

Install the software once the download is complete.

Step 3:

Once the download has completed, double click the MazdaEdit software icon, and open the program

Step 4:

When the software opens, a window will pop up with a hardware finger print, and requesting a registration name and key.

The hardware fingerprint code shown on this window (example **FED1-99AC**)

PLEASE SEND ME THIS HARDWARE FINGERPRINT CODE VIA EMAIL

PLEASE ONLY SEND THE REGISTRATION INFORMATION TO ME IF THE LICENSE WAS PURCHASED THROUGH ME, IF YOU BOUGHT IT DIRECTLY FROM EPIFAN, PLEASE SEND ALL REGISTRATION INFORMATION DIRECTLY TO HIM.

INSTRUCTION STEP 2: REGISTERING YOUR MAZDAEDIT SOFTWARE

Step 1:

Once you have sent the **HARDWARE FINGERPRINT CODE**, you will be given your registration information and License key.

Example of registration information:

Registration name: Jon Doe

Registration key: DLSK4-01351-32LDJA-130DS-0000-1110-2133-XXXX

Please INPUT your registration name in the required "REGISTRATION NAME" box

Please INPUT your License key in the "REGISTRATION KEY" box

Then press apply.

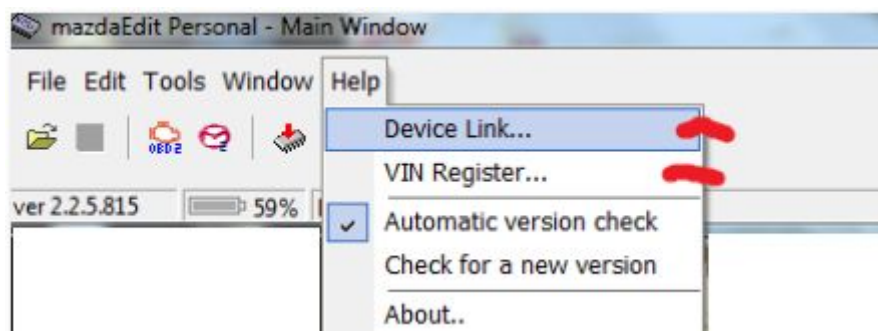
NEXT: REGISTERING YOUR TACTRIX AND VEHICLE TO THE MAZDAEDIT SOFTWARE

Step 1:

Open the mazdaEdit software and CONNECT THE TACTRIX OPEN PORT 2.0 to the Laptop PC.

Step 2:

In the Software, go to HELP> DEVICE LINK (SEE PIC)

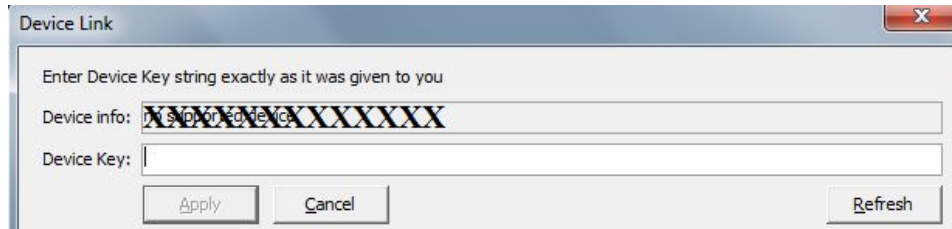


Step 3:

A window will pop up with "Device Info" and "device key" (see pic)

WHERE IT SHOWS "XXXXXXXXXXXX" WILL BE A CODE. PLEASE SEND ME OR EPIFAN THAT CODE VIA EMAIL ALONG WITH YOUR VEHICLES VIN NUMBER

IF THERE IS NO CODE, PLEASE DOWNLOAD THE LATEST TACTRIX DRIVERS @ www.Tactrix.com



Step 4:

You will receive an email from me or Epifan with your tactrix and and VIN registration codes which will need to be entered into the mazdaEdit software.

Example of codes:

Asjflkasjdfklkajtkjslktjalskjrweohrwho134i0293ier09falksjdofno333420()+)(# \$HK#

To enter the keys:

For the TACTRIX KEY, open mazdaedit and **CONNECT THE TACTRIX TO THE PC**, Go to HELP> DEVICE LINK (like above) enter the Key in the "DEVICE KEY" region (as shown above in picture) and press apply.

For the VIN KEY: Go to HELP> VIN REGISTER, enter the key in the dialog box and press APPLY.

Your MazdaEdit is now fully registered.

INSTRUCTION STEP 3: OBTAINING THE 1:1 ECU DUMP COPY

Step 1:

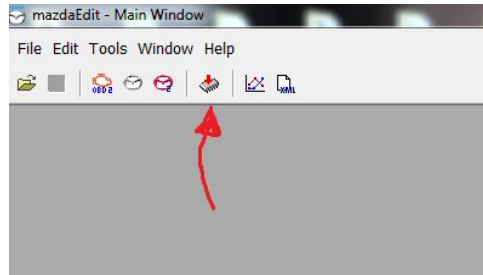
Go to your Vehicle (bring the Tactrix, and laptop with mazdaEdit)

Connect the Tactrix to the laptop and the OBDII port

Open MazdaEdit.

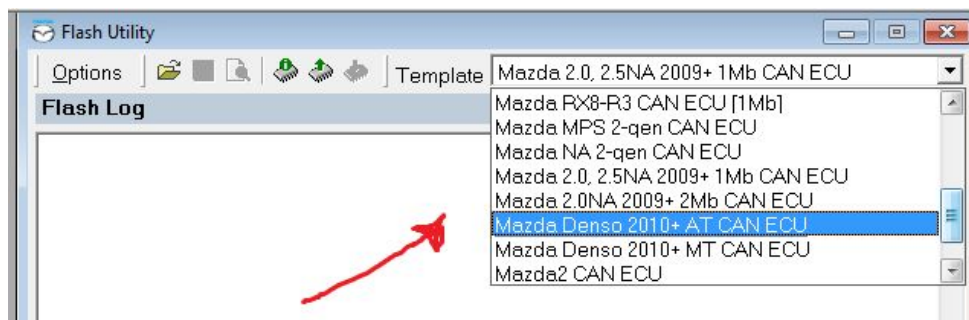
Turn the vehicle key to ON, but **DO NOT START THE CAR**

In the MazdaEdit program, press the Flash Utility button (it has a Red ARROW on it)



Step 2:

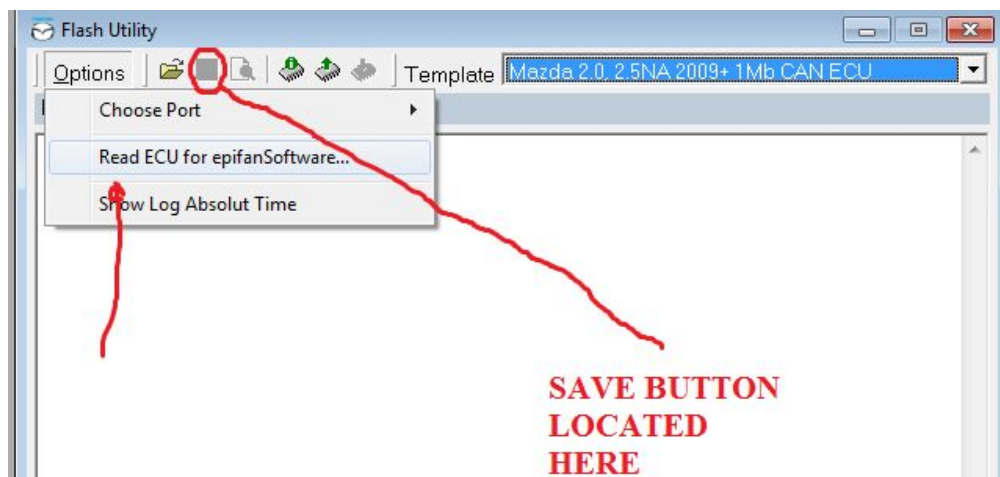
The Flash Utility window will pop up. **FIRST YOU NEED TO SELECT THE PROPER TEMPLATE FOR YOUR VEHICLE.** For Skyactiv Select Skyactiv Mitsu or Denso. It will be one or the other



Step 3:

Next, you need to go to **OPTIONS: READ ECU FOR EPIFANSOFTWARE** (see pic)

ONCE IT HAS COMPLETED, PRESS THE SAVE BUTTON/ICON AND SAVE THE DUMPED INFORMATION.
NAME THIS FILE "yourname_STOCK.Dump"



Step 4:

Email me this File.

(IF YOU GET ERRORS, PLEASE SEE ERROR SECTION FOR “CAN’T FIND PORTS” OR j2534 ERROR)

INSTRUCTION STEP 4: OBTAINING A DATALOG

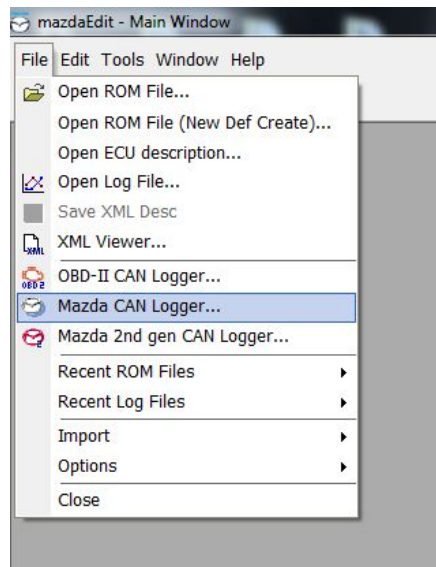
Step 1:

Setting up the logger.

Open MazdaEdit, and Click the appropriate Logger option from FILE>

(If you have a 2nd or 3rd gen 2.0 or 2.5 skyactiv/ MZR, select MAZDA 2ND GEN CAN LOGGER)

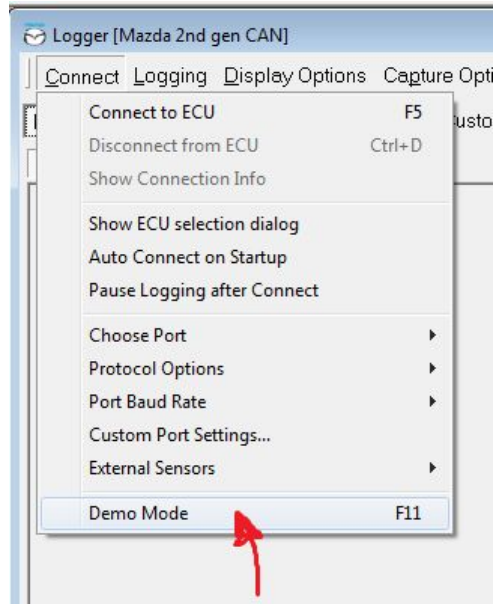
(If you have a 1st gen 2.0 or 2.3L, select Mazda CAN LOGGER)



Step 2:

The logger window will pop up.

Go to Connect > DEMO MODE (located at the bottom) Note** you only use DEMO MODE to setup the logger NOT to record logs. **TO RECORD A LOG PRESS CONNECT TO ECU, NOT DEMO MODE!**



Step 3:

The Logger will now be in “demo mode” and will show the possible Logger options to select from for datalogging. Make sure to select SHOW ALL (see pic). The LOGGER OPTIONS are what need to be selected (checked) or NOT selected, dependent on your engine / car (see list below). NOTE: SOME THINGS MAY NOT BE LISTED IN DEMO MODE, BUT WILL BE AVAILABLE WHEN YOU CONNECT TO THE CAR.

Is it important to know that you select **Connect > Connect to ECU**, NOT demo mode, when you are connected to the vehicle, to record a log.

<input checked="" type="checkbox"/>	Fuel pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	mPa
<input checked="" type="checkbox"/>	Fuel pressure desired	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	mPa
<input checked="" type="checkbox"/>	Fuel pulse width	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ms
<input checked="" type="checkbox"/>	Fuel system status (OL/CL)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	I-Stop Status	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	Ignition timing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	deg
<input checked="" type="checkbox"/>	Intake air temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C
<input checked="" type="checkbox"/>	Intake air temperature 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C
<input checked="" type="checkbox"/>	KCS Learning Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	deg
<input checked="" type="checkbox"/>	Knock retard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	deg
<input checked="" type="checkbox"/>	Long fuel trim 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	%
<input checked="" type="checkbox"/>	Long fuel trim 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	%
<input checked="" type="checkbox"/>	Manifold Air temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C
<input checked="" type="checkbox"/>	Manifold absolute pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bar
<input checked="" type="checkbox"/>	Mass air flow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	g/s
<input checked="" type="checkbox"/>	Mass air flow sensor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	V
<input checked="" type="checkbox"/>	Oil Temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C
<input checked="" type="checkbox"/>	Primary Wastegate Duty	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	%
<input checked="" type="checkbox"/>	Short fuel trim 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	%
<input checked="" type="checkbox"/>	Short fuel trim 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	%
<input checked="" type="checkbox"/>	Throttle position 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	%
<input checked="" type="checkbox"/>	Throttle position 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	%
<input checked="" type="checkbox"/>	VVT Exhaust Actual Position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	deg
<input checked="" type="checkbox"/>	VVT Exhaust Desired	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	deg
<input checked="" type="checkbox"/>	VVT Intake Actual Position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	deg
<input checked="" type="checkbox"/>	Vehicle speed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	kph

Mazda SkyActiv Petrol CAN **DEMO** **Pause** Logging Directory is C:\Users\Mathe

ver 3.6.16.946 100% Registered to: OrangeVirus Tuning

Mazda MZR 2.0L 2.3L 2.5L (mazda 2)

SHOW All Selected	min	Current	max		
<input checked="" type="checkbox"/>	Accelerator pedal position 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	%
<input checked="" type="checkbox"/>	Accelerator pedal position 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	%
<input checked="" type="checkbox"/>	Actual AFR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AFR
<input checked="" type="checkbox"/>	Athmospheric Pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bar
<input checked="" type="checkbox"/>	Barometric pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bar
<input checked="" type="checkbox"/>	Commanded EGR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	%
<input checked="" type="checkbox"/>	Desired equivalence ratio	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AFR
<input checked="" type="checkbox"/>	Difference between target and actual VVT timing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	deg
<input checked="" type="checkbox"/>	ECU Module Voltage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	V
<input checked="" type="checkbox"/>	Electronic throttle control actual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	deg
<input checked="" type="checkbox"/>	Engine coolant Temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C
<input checked="" type="checkbox"/>	Engine coolant temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C
<input checked="" type="checkbox"/>	Engine coolant temperature 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C
<input checked="" type="checkbox"/>	Engine load	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	%
<input checked="" type="checkbox"/>	Engine speed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RPM
<input checked="" type="checkbox"/>	Fuel Injection amoung	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	mg/cyl
<input checked="" type="checkbox"/>	Fuel pulse width	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ms
<input checked="" type="checkbox"/>	Fuel system status (OL/CL)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	Ignition timing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	deg
<input checked="" type="checkbox"/>	Intake air temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C
<input checked="" type="checkbox"/>	Intake air temperature 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C
<input checked="" type="checkbox"/>	Knock retard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	deg
<input checked="" type="checkbox"/>	Long fuel trim 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	%

<input checked="" type="checkbox"/>	Knock retard	<input type="checkbox"/>				deg
<input checked="" type="checkbox"/>	Long fuel trim 1	<input type="checkbox"/>				%
<input checked="" type="checkbox"/>	Manifold Air temperature	<input type="checkbox"/>				C
<input checked="" type="checkbox"/>	Manifold absolute pressure	<input type="checkbox"/>				Bar
<input checked="" type="checkbox"/>	Mass air flow	<input type="checkbox"/>				g/s
<input checked="" type="checkbox"/>	Mass air flow sensor	<input type="checkbox"/>				V
<input checked="" type="checkbox"/>	Short fuel trim 1	<input type="checkbox"/>				%
<input checked="" type="checkbox"/>	Throttle position 1	<input type="checkbox"/>				%
<input checked="" type="checkbox"/>	Throttle position 2	<input type="checkbox"/>				%
<input checked="" type="checkbox"/>	WVT Intake Actual Position	<input type="checkbox"/>				deg
<input checked="" type="checkbox"/>	Vehicle speed	<input type="checkbox"/>				kph

Mazda MPS 2nd gen CAN **DEMO** **Pause** Logging Directory is C:\Users\Mathew
 ver 3.6.16.946 100% Registered to: OrangeVirus Tuning

Mazda Skyactiv Diesel 2.2L

Show All Selected		Min	Current	Max	
<input checked="" type="checkbox"/>	Accel Pedal Position Sensor 1	<input type="checkbox"/>			%
<input checked="" type="checkbox"/>	Actual Coolant Control Valve	<input type="checkbox"/>			deg
<input checked="" type="checkbox"/>	Actual Camshaft and Crankshaft Diff Pos w/o Adaptation	<input type="checkbox"/>			%
<input checked="" type="checkbox"/>	Ambient Air Temp	<input type="checkbox"/>			C
<input checked="" type="checkbox"/>	Atmospheric Pressure	<input type="checkbox"/>			Bar
<input checked="" type="checkbox"/>	Baro Pressure	<input type="checkbox"/>			Bar
<input checked="" type="checkbox"/>	Brake Booster Press	<input type="checkbox"/>			Bar
<input checked="" type="checkbox"/>	Desired Coolant Control Valve	<input type="checkbox"/>			deg
<input checked="" type="checkbox"/>	ECU Module Voltage	<input type="checkbox"/>			V
<input checked="" type="checkbox"/>	Electrical Water Pump	<input type="checkbox"/>			%
<input checked="" type="checkbox"/>	Engine Load	<input type="checkbox"/>			%
<input checked="" type="checkbox"/>	Engine Oil Dilution Amount	<input type="checkbox"/>			g
<input checked="" type="checkbox"/>	Engine Oil Level	<input type="checkbox"/>			?mm
<input checked="" type="checkbox"/>	Engine Oil Pressure	<input type="checkbox"/>			Bar
<input checked="" type="checkbox"/>	Engine Oil Temp	<input type="checkbox"/>			C
<input checked="" type="checkbox"/>	Engine coolant Temperature	<input type="checkbox"/>			C
<input checked="" type="checkbox"/>	Engine coolant temperature	<input type="checkbox"/>			C
<input checked="" type="checkbox"/>	Engine speed	<input type="checkbox"/>			RPM
<input checked="" type="checkbox"/>	Exhaust Gas Differential Pressure	<input type="checkbox"/>			?Pa
<input checked="" type="checkbox"/>	Exhaust Gas Differential Pressure Average	<input type="checkbox"/>			?Pa
<input checked="" type="checkbox"/>	Exhaust Shutter Valve Position Actual	<input type="checkbox"/>			?%
<input checked="" type="checkbox"/>	Exhaust Shutter Valve Position Desired	<input type="checkbox"/>			%
<input checked="" type="checkbox"/>	Frequency of Completed Turbocharger Learning	<input type="checkbox"/>			
<input checked="" type="checkbox"/>	Fuel Injection Amount Desired	<input type="checkbox"/>			mm3/st
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #1 at 100MPa)	<input type="checkbox"/>			
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #1 at 140MPa)	<input type="checkbox"/>			

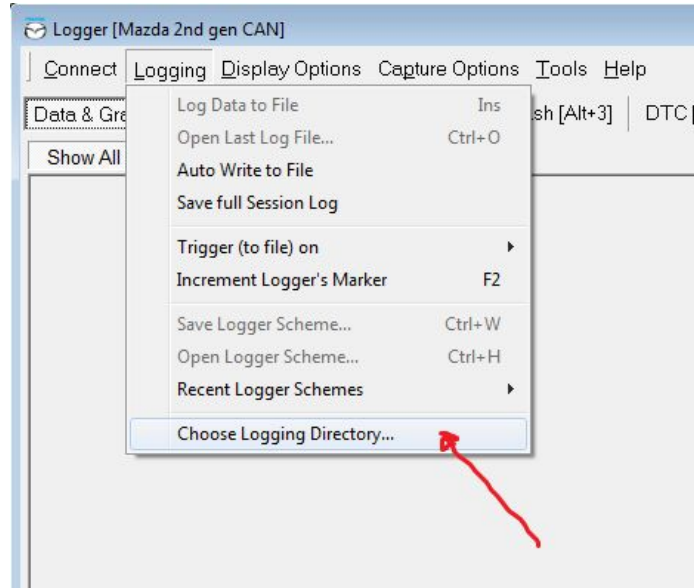
Mazda SkyActiv Diesel CAN **DEMO** **Pause** Logging Directory is C:\Users\Mathew
 ver 3.6.16.946 100% Registered to: OrangeVirus Tuning

<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #1 at 100MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #1 at 140MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #1 at 197MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #1 at 35MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #1 at 65MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #2 at 100MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #2 at 140MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #2 at 197MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #2 at 35MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #2 at 65MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #3 at 100MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #3 at 140MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #3 at 197MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #3 at 35MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #3 at 65MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #4 at 100MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #4 at 140MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #4 at 197MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #4 at 35MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Learning Value (Inj #4 at 65MPa)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input checked="" type="checkbox"/>	Fuel Injection Pump Flow Control	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	A
<input checked="" type="checkbox"/>	Fuel Injection Pump Suction Control Valve	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	mA
<input checked="" type="checkbox"/>	Fuel Rail Pressure (diesel)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	kPa

<input checked="" type="checkbox"/>	Fuel Rail Pressure (diesel)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	kPa
<input checked="" type="checkbox"/>	Fuel Rail Pressure (relative to manifold vacuum)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	kPa
<input checked="" type="checkbox"/>	Glow Plug Coil Duty Cycle	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
<input checked="" type="checkbox"/>	Glow Plug Voltage	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	V
<input checked="" type="checkbox"/>	Injector #1 Correction Value	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Imm3/st
<input checked="" type="checkbox"/>	Injector #2 Correction Value	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Imm3/st
<input checked="" type="checkbox"/>	Injector #3 Correction Value	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Imm3/st
<input checked="" type="checkbox"/>	Injector #4 Correction Value	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Imm3/st
<input checked="" type="checkbox"/>	Intake Air Temperature	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	C
<input checked="" type="checkbox"/>	Long Term Fuel Trim B1 (OBD)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
<input checked="" type="checkbox"/>	Long Term Fuel Trim B2 (OBD)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
<input checked="" type="checkbox"/>	MAF Flow	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	g/s
<input checked="" type="checkbox"/>	Manifold Absolute Pressure	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Bar
<input checked="" type="checkbox"/>	Manifold Absolute Pressure Desired	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Bar
<input checked="" type="checkbox"/>	Oxygen Concentration in Exhaust Gas	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
<input checked="" type="checkbox"/>	Short Term Fuel Trim B1 (OBD)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
<input checked="" type="checkbox"/>	Short Term Fuel Trim B2 (OBD)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
<input checked="" type="checkbox"/>	T/C Compressor Inlet Pressure Sensor A	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Bar
<input checked="" type="checkbox"/>	T/C Compressor Inlet Pressure Sensor B	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Bar
<input checked="" type="checkbox"/>	Turbocharger VTG Position Actual	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
<input checked="" type="checkbox"/>	Turbocharger VTG Position Desired	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
<input checked="" type="checkbox"/>	Turbocharger VTG Position Desired #2	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%

Step 4:

Choose logging Directory. This will make finding your logs easy. **When sending a log via email ONLY send the .CSV File. The Text file is not needed.**



LOGGER SETUP IS NOW COMPLETE

RECORDING A LOG!!!!:

Steps:

- 1. Connect tactrix to vehicle and to laptop. Vehicle should be running**
- 2. Open mazdaEdit**
- 3. Connect to ECU (noted below).**
- 4. Personally it is easier to connect to the ecu, set it all up and put the laptop in the passenger seat. When you are ready to record, turn it on when you can safely. IT IS OKAY IF YOU TURN THE LOGGER ON AND RECORD EARLY, FOR INSTANCE IF YOU TURN IT ON BEFORE YOUR DSTINATION TO PERFORM A WOT LOG, THAT IS FINE, THE UNNECESSARY PARTS CAN BE REMOVED BY US.**

Notice in the picture above you see the grayed out "Log data to file" Once you are CONNECTED TO ECU (see instruction above) you press LOG DATA TO FILE to START logging, you will notice a GREEN bar below, this means it IS RECORDING. Ensure you are NOT in DEMO MODE, it will also show a green bar at the bottom.

You press “log data to file” again to STOP recording. The recorded log will be saved in your logging directory chosen.

WHAT LOGS ARE NEEDED? (please make separate logs if you can) :

Please Record:

1 log- WARMED UP IDLE- 2-3 minutes

1 log- Driving around town 5-10 minutes

2x log- Wide open throttle 2nd gear or higher from lowest possible rpm (about 1500) to Redline. If you are automatic trans, Record as high as it lets you until it shifts. Newer skyactives with **KICK DOWN SWITCH. It is easiest to record the logs if you **DO NOT** activate the kick down switch, but have the pedal right before it and record the engine gear pull.**

INSTRUCTION STEP 5: FLASHING A NEW FILE TO THE ECU

Step 1:

Connect the Tactrix to the vehicle and to the laptop.

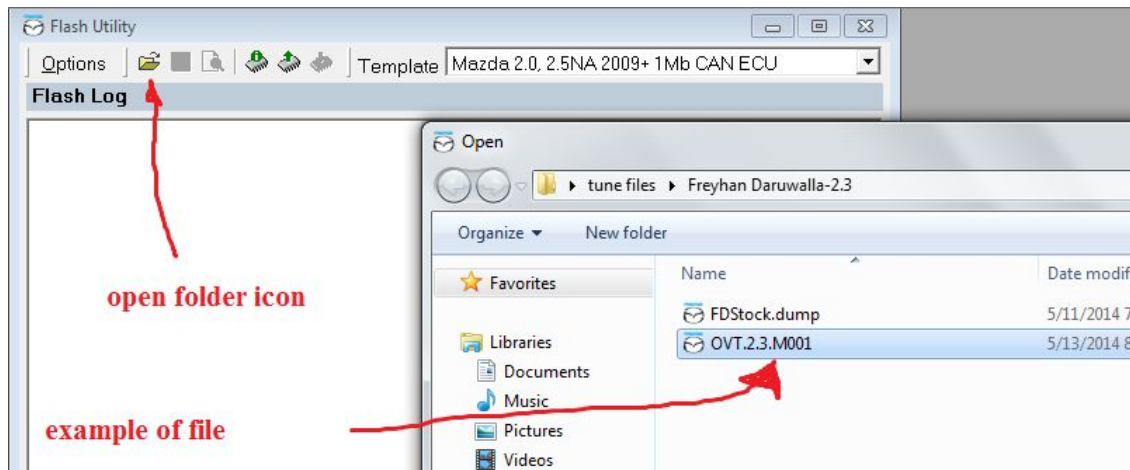
Turn the car ON, but **DO NOT START**

Open MazdaEdit program

Click the “Flash Utility button”

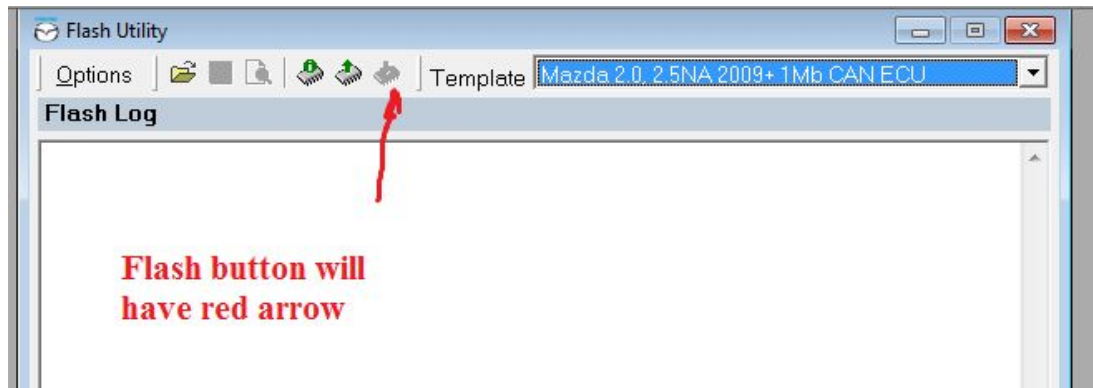
ENSURE THE TEMPLATE IS CORRECT FOR YOUR VEHICLE

Select the OPEN FOLDER Icon (see pic) and Select the File sent



Step 2:

Once the file has been loaded, AND THE VEHICLE IS ON BUT NOT STARTED. PRESS THE FLASH UTILITY BUTTON (RED ARROW) TO BEGIN THE FLASHING PROCESS. FOLLOW THE ON SCREEN PROMPTS UNTIL FLASHING IS COMPLETE. THEN AFTER, ATTEMPT TO START THE CAR TO ENSURE THE FLASH WAS SUCCESSFUL. ONLY ATTEMPT TO FLASH THE CAR WHEN YOU HAVE AT LEAST 24 HOURS OF TIME DEDICATED THAT YOU DO NOT NEED TO DRIVE! INCASE THERE ARE ANY ISSUES, SO YOU CAN GET AHOLD OF US AND WE CAN REMEDY THE SITUATION. FLASHING BEFORE WORK IN THE MORNING IS NOT RECOMMENDED, SINCE ON RARE OCCASSIONS THE SOFTWARE CAN “ERROR OUT” DURING FLASHING AND IF IT DOES THE CAR IS UNSTARTABLE. IF IT ERRORS, COMPLETELY CLOSE MAZDAEDIT, RESTART THE COMPUTER, AND TRY TO FLASH AGAIN. ENSURE YOU HAVE ENOUGH TIME BEFORE YOU NEED TO DRIVE TO GET AHOLD OF US IF ANYTHING DOES NOT GO SMOOTHLY. (NOTE, the ECU is not “bricked” if it errors out)



Step 3:

Once the Flash has been completed, and vehicle successfully starts. The Flashing process is complete, and you are ready to begin logging for the next updated file for your tune. **PLEASE MAKE SURE THAT YOU DRIVE AT LEAST 20-25 MILES AFTER A FLASH BEFORE BEGINNING TO RE-LOG FOR THE NEXT UPDATE SO THAT THE FUEL TRIMS HAVE SETTLED PROPERLY.**

THE FLASHING PROCESS IS NOW COMPLETE.

ERRORS-TROUBLESHOOTING SECTION:

ERRORS:

Incorrect license / registration name.

Fix: The license and registration name is created **ONLY** for that **HARDWARE FINGERPRINT**, which is **UNIQUE** to that pc. You cannot put it on another PC with a different **HARDWARE FINGERPRINT**. If you still have the same fingerprint and have this error, email me immediately for a resolution.

Device link not installed error

Fix: When putting the device key in, if you get a device link not installed error, make sure the tactrix is plugged into the laptop. If it is plugged in, please ensure the drivers are up-to-date **FROM TACTRIX** and retry with the license again. **THE KEY WILL NOT INSTALL** if the device info says "no supported device" which means tactrix is not plugged in / drivers updated.

Flashing error "can't Find Ports"

Fix: With the flash window open go to **OPTIONS> Choose port>** make sure "auto select" is checked. If it is checked, make sure you have the updated tactrix drivers. If the updated tactrix drivers are installed, then go back to your **HELP> DEVICE LINK>** and **RE-ENTER** your Device Key. If you are still having problems, please email me immediately for a resolution.

Flashing Error "Can't find map description for ECU ID, please make request to epifansoftware"

Fix: Your MazdaEdit version ECU Definitions do not currently have your ECU specific Definitions.

Download fixed defs file:

<http://www.epifansoft.com/download/mep/mep.eed>

and copy it over old one (C:\Program Files\mazdaEdit Personal\). They will OVERWRITE an existed MEP file.

Flashing Error J2534 DLL ERROR can't find port

Fix: Please email me for the appropriate DLL to fix this flashing error.

Flashing Error "File associated with Different VIN"

Fix: please email me and let me know right away if you experience this error, this is a checksum error when a ROM is locked to a VIN. that needs to be handled for proper flashing.

VEHICLE DOES NOT START AFTER FLASH OR ERROR DURING FLASHING

Fix: First, attempt to reflash the same file again. Usually if an Error occurs during flashing, that means there was a loss of connection with the tatrix. If you continue to get errors, Email me immediately. If the flash is successful and the vehicle does not start, attempt 1 more time to flash the same file again.

If it still does not after, email me immediately for a resolved file AND / OR FLASH BACK TO YOUR STOCK FILE. NOTE: the ECU IS NOT DEAD IF THE FLASH FAILS / CAR DOES NOT START. THERE IS ALWAYS A FIX.

SKYACTIV 3RD GEN PUSH START / KEY START SPECIFIC ISSUES:

Car does not turn off when selected to turn off after flashing ROM. This is O.K. You don't actually have to turn the car off. The second part of the Flash is just clearing the ECUs memory.

CANBUS Related items don't work after successful ROM FLASH. (example, lights are on the dash, power steering inoperable, check engine light, etc)

FIX: Currently this is an issue with the software and the CANBUS communication protocols. Almost everything in the car is networked via the CANBUS, and when you flash there is a momentary signal loss to other nodes. To fix this issue : Unplug the negative battery cable and hold the brake pedal down for 10-15 seconds. Then reconnect the negative battery cable after letting the car sit for ~ 5 minutes. You may still have a CEL (check engine light) but it will go away after a short drive.

**IF YOU GET AN ERROR NOT SPECIFIED IN THIS SECTION,
PLEASE EMAIL ME ABOUT THIS ERROR FOR RESOLUTION.**