

Duramax 2.8L E98 DSP4 User Guide

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Duramax 2.8L E98 DSP4 User Guide

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Prerequisites

Intended Audience

EFILive Customers using the V8 Scan and Tune Tool software.

Computer Knowledge

It is expected that readers have a basic understanding of:

- The Windows operating system;
- Starting and using Windows applications;
- Navigating folders using Windows Explorer.

Tuning Knowledge

It is expected that readers have a basic understanding of:

- Electronic Fuel Injection.
- On Board Diagnostics.



Introduction

What is EFILive?

EFILive is tuning software and hardware - it is not a tune. Together the software and hardware give users the tools to write tunes. EFILive does not provide tune files, tuning advice or support, but do provide software support and hardware support.

What is EFILive DSP⁴?

EFILive's DSP⁴ custom operating systems for Duramax controllers allows customers to be able to switch 'on the fly' between multiple tunes, all stored in the ECM's flash memory

Having multiple tunes instantly accessible means changing tunes to suit different driving conditions no longer requires the ECM to be reflashed each time you choose to run a different tune. (E.g. racing, towing, or power limiting.) Simply build multiple tunes to fill the DSP⁴ slots, flash the ECM once and then select your desired tune through via a hardwired switch at any time.

The ECM can be returned to GM factory condition at any time by reflashing a stock GM Operating System and calibration into the ECM using the Full Flash option.

Software Version Overview

This version of the Duramax E98 DSP⁴ User Guide migrates all processes to EFILive V8 Scan and Tune software. Functionality is still available in V7.5 software, however software support and bug fixes will cease in 2021.

FlashScan/AutoCal V3 and AutoCal V2 are not compatible with V7 software. V7 functions are only supported by FlashScan V2. The following is a brief view of the activities that are performed with the different software versions:

Feature	V7	V8
Scanning	✓	✓
OBDII Diagnostics	✓	✓
Reading	✗	✓
Flashing	✗	✓
Tune Editing	✓	✓
VIN License Management	✗	✓
Firmware Management	✗	✓

To upgrade to DSP⁴ exclusively in EFILive V8 Scan and Tune software you must be running the following (or higher) software versions.

1. EFILive V8.3.8 or later.
2. FlashScan V3 / AutoCal V3 Firmware – V3.00.068.
3. FlashScan V2 / AutoCal V2 Firmware - V2.08.177.

The latest software versions are available for download from EFILive's website.



DSP⁴ Upgrade

DSP⁴ Upgrade Checklist

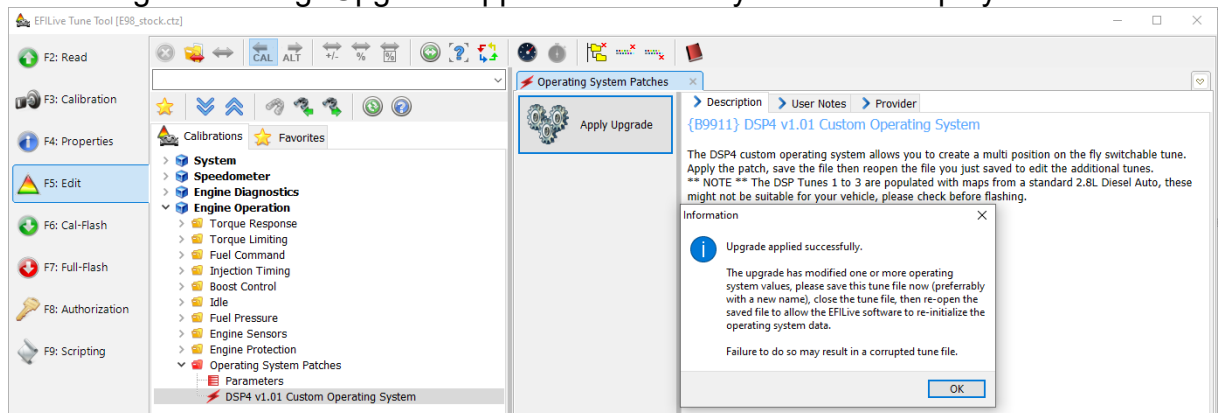
DSP⁴ upgrades are only available on specific factory operating systems. Typically these are based on the latest factory update (at time of development). If you have a truck that has an OS not listed below, you will need to upgrade your base file first.

Supported DSP⁴ operating systems are listed in the table below. These were the latest factory updates as of 2019; released 4 years after this ECM type was introduced. No further EFILive development is scheduled for Duramax platforms.

Operating System #	
55484589	55503875
55488069	55503892
55491998	55504430
55493455	55508116
55500370	55597308

Upgrade Operating System to DSP⁴

1. Open V8 Scan and Tune software and your stock tune file.
2. Navigate to [F5: Edit].
3. Expand the Engine Operation -> Operating System Patches Folder and select DSP4 Custom Operating System.
4. Select the [Apply Upgrade] button.
5. Select [Yes] to the “This operation cannot be undone, continue?” dialog box.
6. A message indicating “Upgrade applied successfully.” will now display.



7. Save the file with a new name using, **File > Save As**. As an example; 'My Truck Base DSP4 Conversion.ctz'.
8. Close the tune file.
9. In the EFILive V8 Scan and Tune Recent Items entries for the stock tune and your upgraded DSP⁴ tune will be listed. Confirm that the operating system



V8 Scan and Tune Scan

Pass-Thru Data Logging

To log data using FlashScan or AutoCal and V8 Scan and Tune software;

1. Open the Efilive V8 Scan and Tune.
2. Connect your FlashScan/AutoCal device to your PC and vehicle.
3. Turn the vehicle ignition to the *On* position.
4. Select an existing Dashboard configuration either by using the [Open Dash] button or using the Dashboard drop down, or configure after making controller and PID selections.
5. Navigate to the [F2: Scan] -> [F2: PIDs] menu option.
6. In the Engine field use the drop down list to select the E98 controller type or use Auto Detect.
7. Drag PIDs or PID folders from the Available PIDs window into the Selected PIDs window.

The screenshot shows the Efilive Scan Tool interface. The 'Selected Controller(s)' is set to 'E98 Diesel ECM'. The 'Selected PIDs' window contains a table with the following data:

Name	Description	Units	Group	Source
RPM	Engine RPM	rpm	ECM - Generic	ECM
ACTBOOST	Actual Boost Pressure	kPa	Calculated	CALC
VSS	Vehicle Speed Sensor	km/h	ECM - Generic	ECM
ECT	Engine Coolant Temper...	°C	ECM - Generic	ECM
IAT	Intake Air Temperature	°C	ECM - Generic	ECM

The 'Available PIDs' window shows a list of PIDs with columns for Name, Description, Units, Group, and Source. A red box highlights the following PIDs:

Name	Description	Units	Group	Source
MONDTC	Monitor Status Since DTCs Cleared		ECM - Generic	ECM
DTCFRZF	DTC That Caused Freeze Frame to be Stored		ECM - Generic	ECM
LOAD_PCT	Calculated LOAD Value	%	ECM - Generic	ECM
MAP	Manifold Absolute Pressure	kPa	ECM - Generic	ECM

8. Navigate to the [F3: Data], [F4: Charts], [F5: Gauges] or [F6: Maps] tab and configure your dashboard to arrange data displays where a dashboard has not already been selected.
9. Users should [Save Dash] to save their custom configurations to reduce future configuration requirements.
10. Start the vehicle.
11. Select either Record or Monitor from the [F3: Data], [F4: Charts], [F5: Gauges] or [F6: Maps] screens.

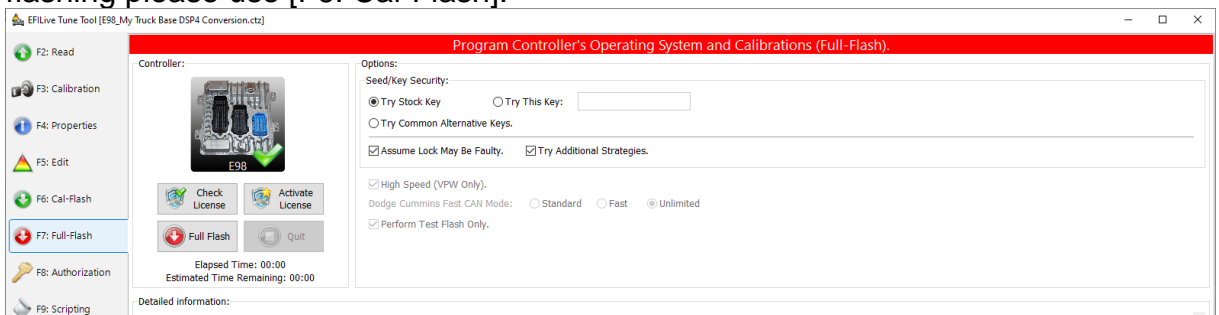
12. Stop the vehicle and turn the ignition off prior to selecting Stop to stop the data logging session.
13. Save the log.
14. To replay the data log, navigate to the [F3: Data], [F4: Charts], [F5: Gauges] or [F6: Maps] tab and select the appropriate Playback buttons.



Pass-Thru Licence and Flash a Controller

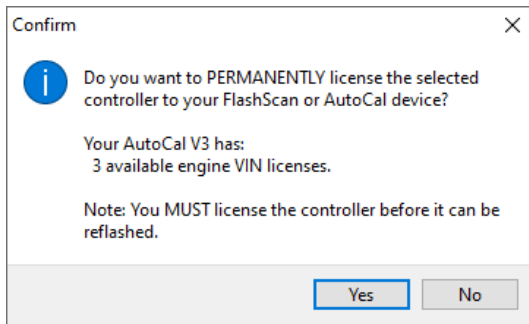
Follow these steps to license and flash the selected controller.

1. Open the EFILive Scan and Tune application.
2. Connect your FlashScan/AutoCal to your PC and your vehicle.
3. Turn the vehicle ignition to the *On* position, (not the Accessory position. Vehicle must not be cranked/running when flashing).
4. Select the [F3: Tune] option in the left-hand pane.
5. Click on the Open button and select the calibration file for the controller you wish to flash or license.
6. If tune file security has been applied to the tune file, review and accept the Security Warning.
7. Click on the [F7: Full Flash] options in the left-hand pane. A full flash is required to program a DSP⁴ into the ECM where a single tune is already programmed and to revert from a DSP⁴ to single tune. For all other tune file flashing please use [F6: Cal-Flash].

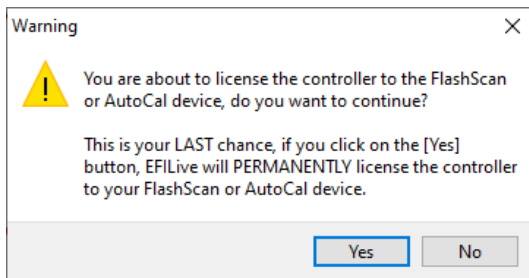


8. Click on the Check License button. This will indicate if the controller is already licensed or needs to be licensed.
9. Where the controller is NOT licensed, select Activate License to license the controller.

10. Select Yes to license the controller or No to close this window without licensing the controller.



11. Select Yes to license the controller or No to close this window without licensing the controller.



12. Select the Full Flash button to commence the flash.
13. While the ECM is flashing an Elapsed time indicator, an Estimated Time Remaining indicator, and a Progress bar will display tracking the Flash progress.
14. When the flash process is complete a countdown timer will be shown. When prompted perform the following actions:
 - a. Turn the vehicle ignition Off.
 - b. Click on the Start button to begin the countdown timer.
 - c. DO NOT turn the vehicle ignition on until the countdown timer expires. This time is critical to allow the ECM to perform internal functions after a read operation.



Configure FlashScan/AutoCal for BBX

There are a range of configuration files that must be installed on FlashScan and AutoCal devices before the device can be used in standalone mode (BBX).

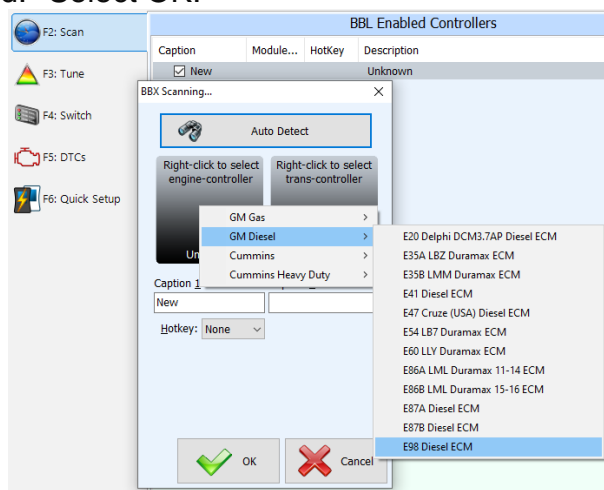
Follow these instructions to configure your FlashScan or AutoCal for BBX.

1. Connect your FlashScan or AutoCal to your PC.
2. Open the Efilive V8 Scan and Tune application.
3. Select the [F5: BBX] option in the left-hand pane.

Data Logging

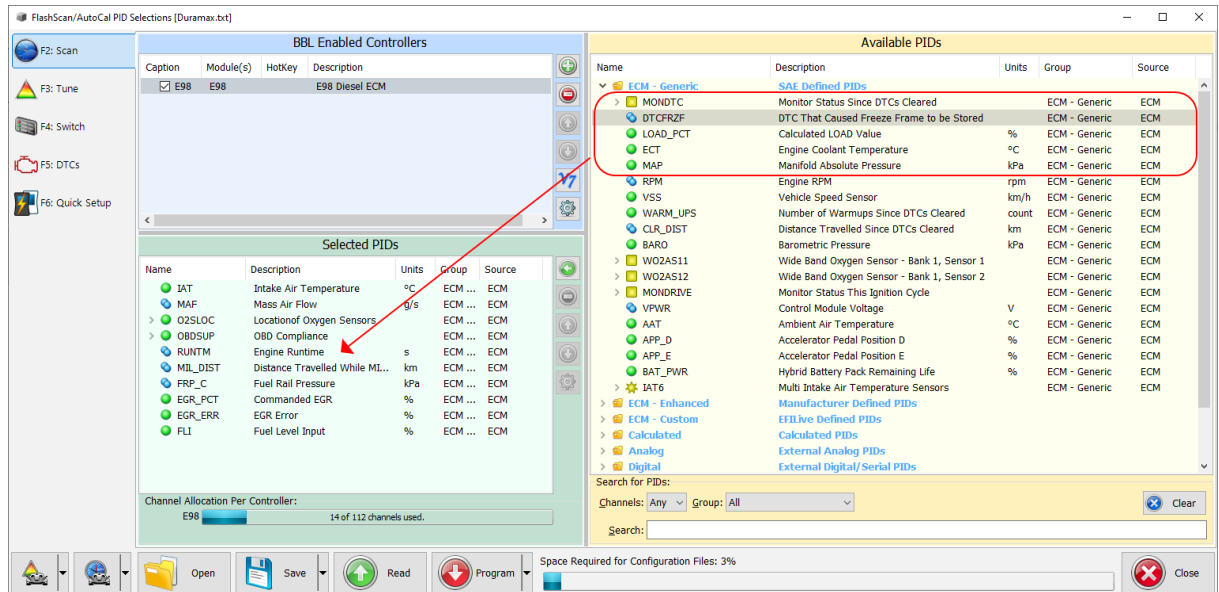
To configure data logging;

1. Select the [F2: Scan] option in the left-hand pane.
2. Remove any unnecessary controller configurations to ensure capacity restrictions are not exceeded.
3. Add your chosen controller(s) to your list;
 - a. Press the green '+' icon.
 - b. Right click on the Engine Controller box.
 - c. Navigate to Select E98.
 - d. Select OK.



4. Click on the E98 controller in the “BBL Enabled Controllers” window.

5. Navigate and drag the PIDs or PID folders from the Available PIDs window into the Selected PIDs window.



Configure Tuning

To configure flashing of E98 controllers on your FlashScan/AutoCal device;

1. Select the [F3: Tune] option in the left-hand pane.
2. Remove any unnecessary controller configurations to ensure capacity restrictions are not exceeded.
3. Add your chosen controller(s) to your list;
 - a. Press the green '+' icon.
 - b. Right click on the Engine Controller box.
 - c. Navigate to Select E98.
 - d. Select OK.

Tune File Switching

To configure the switching of DSP⁴ tune positions on your FlashScan/AutoCal device;

1. Select the [F4: Switch] option in the left-hand pane.
2. Enter switchable tune names as appropriate.

Configure DTCs

To configure the display of trouble codes and descriptions onto FlashScan;

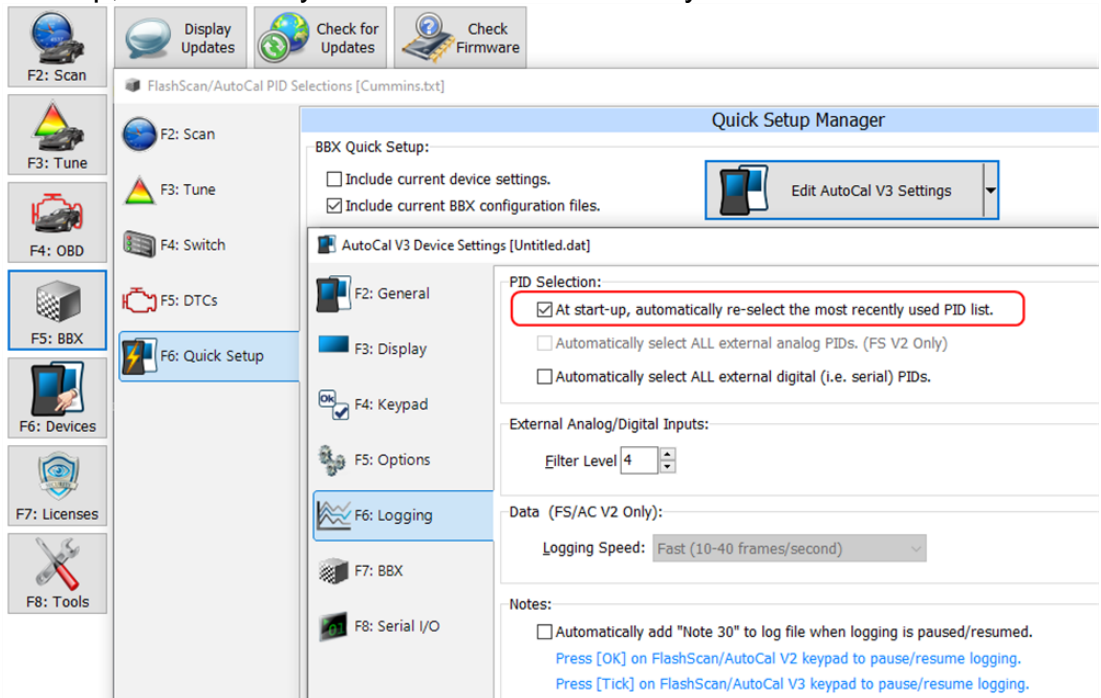
1. Select the [F5: DTC's] option in the left-hand pane.
2. Select appropriate DTC options.

Quick Setup

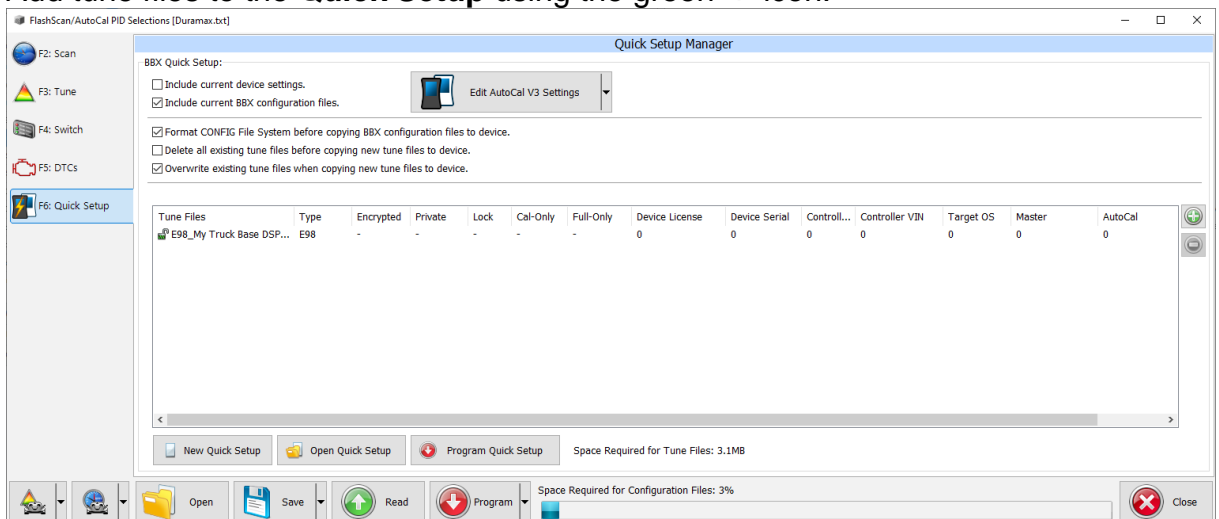
To configure BBX settings, device settings, and configure tune files for BBX;

1. Select the [F6: Quick Setup] option in the left-hand pane.
2. Select appropriate BBX configuration options.
3. Edit device settings as necessary. To prevent manually selecting your controller PID group each time FlashScan/AutoCal is powered, the most recent PID group selection can be automatically selected by:

- a. Selecting the correct hardware on the [F6: Quick Setup] -> [Edit AutoCal V3 Settings] button.
- b. In the Device Settings window, navigate to [F6: Logging] and tick the “At start-up, automatically re-select the most recently used PID list.”



4. Add tune files to the **Quick Setup** using the green '+' icon.



5. Write this configuration to FlashScan or AutoCal using the [Program Quick Setup] function. The [Program Quick Setup] programs all selected Scan, Tune, Switch, and DTC options, as well as selected device settings, BBX Quick Setup selections and tune files. Once the device is programmed, FlashScan or AutoCal is configured for BBX functions.

Each option can be programmed individually using the [Program] button on each tab, or collectively using the [Program Quick Setup] option.



FlashScan Menu Navigation

FlashScan/AutoCal V3

FlashScan/AutoCal V3 supports two menu structures; the EFILive standard menu and the user defined menu. Where a used defined menu is not installed, the EFILive standard menu will be displayed.

Data Logging

1. Configure FlashScan/AutoCal V3 for BBX features if not already setup.
2. Connect your FlashScan/AutoCal V3 device to your vehicle.
3. Turn the vehicle ignition to the *On* position.
4. Navigate to the Scan Tool -> F1 Select PIDs menu option.
5. Select correct controller type from BBX configured controllers.
6. Navigate to the F1 Scan Tool -> F2 Data Logging menu option.
7. Select F1: Record Data to commence the logging session.
8. The LCD will display recording status, elapsed time, frame count and the selected PIDs.
9. A range of options are available while the Log is recording:
 1. Select ✓ to pause/resume the log.
 2. Select the up and down arrows to navigate through selected PIDs.
 3. Select X, to stop data logging and save the logged data.
10. Start the vehicle and drive to record actual performance. Do not attempt to operate a FlashScan/AutoCal device while your vehicle is in motion.
11. Select X on FlashScan/AutoCal V3 to stop data logging and save the log file.

License and Flash a Controller

1. Configure FlashScan/AutoCal V3 for BBX features if not already setup.
2. Copy selected tune file(s) from your PC to FlashScan/AutoCal V3 if not already copied via Quick Setup during step 1.
3. Connect your FlashScan/AutoCal V3 device to your vehicle.
4. Turn the vehicle ignition to the *On* position, (not the *Accessory* position). Vehicle must not be cranked/running when flashing).
5. Navigate to the Tune Tool menu and select F1: Tuning -> F3 Program Full menu option.
6. Navigate to the folder your tune file is located in and select ✓ to commence the flash.
7. If the controller has not been licensed by this device previously, you will be presented with an “Unlicensed Controller” message. Select ✓ to proceed with licensing the controller, or X to exit without licensing the controller.
8. Select ✓ to confirm licensing the controller and commence the flash, or X to exit without licensing the controller.
9. When the flash process is complete, select X to close the flash completed message.
10. The Reset Controller notification will be shown, and the controller reset process will begin.

1. Turn the vehicle ignition Off.
2. Click on the Start button to begin the countdown timer.
3. DO NOT turn the vehicle ignition on until the countdown timer expires. This time is critical to allow the ECM to perform internal functions after a read operation.



FlashScan V2

Data Logging

1. Configure FlashScan V2 for BBX features if not already setup.
2. Connect your FlashScan V2 device to your vehicle.
3. Turn the vehicle ignition to the *On* position.
4. Navigate to the F1 Scan Tool - F1 Select PIDs menu option.
5. Select correct controller type from BBX configured controllers.
6. Navigate to the F1 Scan Tool - F2 Data Logging menu option.
7. Select F1: Record Data to commence the logging session.
8. The LCD will display the elapsed time, frame count and the selected PIDs.
9. A range of options are available while the Log is recording:
 1. Select OK to pause/resume the log.
 2. Select F1..F4 or Ctrl+F1..Ctrl+F4 to add "user notes" 1 thru 8 to the log.
 3. Select Enter to toggle between Metric and US Customary units.
 4. Select the up and down arrows to navigate through selected PIDs.
 5. Select Cancel, to stop data logging and save the logged data.
10. Start the vehicle and drive to record actual performance. Do not attempt to operate a FlashScan/AutoCal device while your vehicle is in motion.
11. Select Cancel on FlashScan V2 to stop data logging and save the log file.

NOTE: When data logging is activated you cannot return to the menu until logging is stopped.

License and Flash a Controller

1. Configure FlashScan V2 for BBX features if not already setup.

2. Copy selected tune file(s) from your PC to FlashScan V2 if not already copied via Quick Setup in step 1.
3. Connect your FlashScan V2 device to your vehicle.
4. Turn the vehicle ignition to the On position, (not the Accessory position. Vehicle must not be cranked/running when flashing).
5. Navigate to the F2 Tune Tool -> F1 Tuning and select F3 Program Full menu option.
6. Using the arrow keys, navigate to the correct tune file and select OK.
7. If the controller has not been licensed by this device previously, you will be presented with the License this controller now? message. Select Yes to license the controller or No to exit without licensing the controller.
8. Select Yes to confirm licensing the controller and commence the flash, or No to exit without licensing the controller.
9. When the flash process is complete the Reset Controller notification will be shown. When prompted perform the following actions:
 - a. Turn the vehicle ignition Off.
 - b. Click on the Start button to begin the countdown timer.
 - c. DO NOT turn the vehicle ignition on until the countdown timer expires. This time is critical to allow the ECM to perform internal functions after a read operation.





Support

Trouble Shooting

Should users encounter problems with the EFILive software, FlashScan or AutoCal hardware they should:

1. Confirm software, firmware and boot block versions are up to date.
2. Check that checksums are valid.
3. Check the base file matches the calibration for your vehicle.
4. Check to see if the NVRAM in the ECM is functional.
5. Confirm DSP⁴ file was upgraded to new operating system number, as sequenced above.
6. Check Voltage settings by monitoring the voltage PID and tune number using the EFILive Scan Tool.
7. Check wiring installation; specifically check that the pins are properly fitted to the ECM.
8. Remove/isolate all after-market devices including mobile phone adapters, after-market equipment (audio systems, security, remote start etc.) and any devices wired into the OBD port that may interfere with vehicle communications.
9. DO NOT operate any vehicle feature that may communicate on the data bus. This includes opening or closing of hood, doors, windows, as well as changing settings on radio, HVAC, connecting/removing charging devices etc.

Error Codes

If an error occurs while using AutoCal, users can look up the error code description in the EFILive V8 Scan and Tune software.

The [F8: Tools] -> [F8: Error Codes] menu item provides an error code lookup function, and the "EFILive Error Codes.pdf" document accessed by selecting the Windows Start Icon and navigating to Program Files->EFILive->V8->Documents->EFILive Error Codes.pdf is also available. Both options provide error code descriptions, causes and actions.

Should the issue not be resolved after reviewing the Error code list, end users should contact their Tuner for support.

Checksums

Checksums perform a vital role in ensuring the integrity of the data in the tune file. There are two main reasons that checksums display as invalid:

1. The data in the file is corrupt and MUST NOT be flashed into a controller.
2. The data in the file has been modified with a software package that did not update the checksums – such as a hex editor.

Do not correct the checksums unless you know the tune file was modified outside of the EFILive software and that the modifications are correct and accurate.

If you correct the checksums of a file with corrupt data you are merely masking corruption. If you flash a corrupt file into a controller, you risk damaging the controller and/or causing the vehicle to operate incorrectly.

NVRAM Status

If the NVRAM area of the ECM is corrupted the vehicle may still run, however it may not be possible to read or flash the controller. Typically, if the VIN, Serial number, Hardware number and/or calibration ID do not contain valid data, the controller will need to be repaired to restore full functionality.

An error code received during reading and/or flashing may indicate a NVRAM issue.

To identify if the NVRAM is functional or corrupt:

1. Open the EFILive V8 Scan and Tune software.
2. Connect your FlashScan/AutoCal device to your PC and vehicle.
3. Turn the vehicle ignition to the *On* position.
4. Navigate to the [F4: OBD] -> [F2: OBD] menu option and select the [Details] tab.
5. Select your controller(s) by using the [Auto Detect] button, or;
 - a. Hover over the Engine Controller box, and right click on the “Right-click to select engine-controller” box and manually select the ECM.
 - b. Navigate and select the correct controller.
6. Click the [Read] button to populate controller data.
7. Where the VIN, Serial number, Hardware number and/or calibration ID either contain all zeros or non-numeric characters, the controller will need to be repaired to restore full functionality.

The screenshot shows the 'Retrieve Controller(s) OBD Details' window in the EFILive software. The window title is 'On Board Diagnostics (OBD)'. The left sidebar shows navigation options: F2: OBD (selected), F3: Lookup DTC, and F4: Lookup OS. The main area is titled 'Controllers:' and shows an 'Auto Detect' button and a 'Right-click to select trans-controller' button. Below these are buttons for 'Read', 'Clear', and 'Legend'. A progress bar at the bottom left shows the status: 'Progress... Get E54 L87 Duramax ECM details... Scanning all modules... Retrieve SRT Results... Retrieve DTCs... Done.'

The 'Details' tab is active, showing a table of controller data for the 'Powertrain Control Module (PCM)'. The table has columns for 'Description', 'Value', and 'Units'. The data is as follows:

Description	Value	Units
Powertrain Control Module (PCM)		
Description	E54 L87 Duramax ECM	
VIN	0; 00y0x=0 00,08	
Serial Number	/000A000A000	
Hardware Number	1100349472	
Calibration ID	1012924418	
BCC		
Security Seed	\$DAA4	
Operating System	15189044 (\$0000)	
Engine Operation	15189053 (\$0000)	
Engine Diagnostics	15100899 (\$0000)	
Fuel System	15076354 (\$0000)	
System	15076387 (\$0000)	
Speedometer	15076393 (\$0000)	

Controller repair requires the flash memory chip to be replaced in the ECM. A number of companies can perform this service including SoCal Diesel and Wait4Me Performance.

Test for Rogue Modules

For Customers with FlashScan/AutoCal V3 a range of test modes to check the network for rogue modules that may cause read or flash operations to abort are available.

Navigate to the Tune Tool -> F1: Tuning -> F4: Test OBD Network menu.

Select the Test CAN J1979 option.

Trace Files

V8 Scan and Tune *.htx files

When V8 Scan and Tune software reads or flashes a controller the details of the read/flash process may be saved in trace files for diagnostic purposes.

In addition, users can manually save trace files where options do not perform the desired outcome.

To manually generate a trace file, generate the error in V8 software, then open the EFILive Control Panel and navigate to [F8: Trace] and select [Save Trace]. Users can set the trace file and save location during this process.

Automatically generated trace files are created on your PC or laptop in the folder: \\Documents\\EFILive\\V8\\Trace and are named using the following naming convention:

YYYYMMDD_HHNNSS_T_CCC.htx, where:

- YYYYMMDD: is the year, month and day that the trace was recorded.
- HHNNSS: is the hour, minute and second that the trace was recorded.
- T: is the mode and is one of **R**=Read **F**=Full-Flash **W**=Cal-Flash.
- CCC: Is the controller type
- htx: is the file extension.

FlashScan/AutoCal V3 *.xalm files

Trace files are automatically saved where an error message is presented using the device in BBX mode. Users can manually save trace files where options do not perform the desired outcome, including for pass-thru functions.

To manually generate a trace file on FlashScan/AutoCal V3 navigate to Scan Tool -> F3: Scan Options -> F1: Save Trace.

FlashScan/AutoCal V3 maintains an internal buffer of the most recent messages sent to and received from the vehicle. That buffer is stored in RAM memory and is wiped clean each time the device is powered off or rebooted. Therefore you **MUST** save the trace file before powering off or rebooting the device.

Trace files are located in the EFILive -> Trace folder on FlashScan/AutoCal V3. Trace files are named using the following naming convention:

yyyymmdd_hhnnss_<desc>.xalm, where:

- yyyymmdd: is the year, month and day that the trace was recorded.
- hhnnss: is the hour, minute and second that the trace was recorded.
- <desc>: is the description where;
 - "User" means user generated trace files
 - "xxx._x_\$xxx" identifies the 3 character controller ID, the communication process upload/download, and the 4 digit error code.
- xalm: is the file extension.

FlashScan V2 Trace Files

Trace files are automatically saved where an error message is presented using the device in BBX mode. Users can manually save trace files where options do not perform the desired outcome.

To manually generate a trace file on FlashScan V2 navigate to F1 Scan Tool -> F3 Scan Options -> F1 Save Trace File.

FlashScan V2 maintains an internal buffer of the most recent messages sent to and received from the vehicle. That buffer is stored in RAM memory and is wiped clean each time the device is powered off or rebooted. Therefore you **MUST** save the trace file before powering off or rebooting the device.

Trace files are located in the Scan folder on FlashScan V2. It will be named USR_XXXX.efx, where XXXX is the unique file counter number.

Knowledgebase

The [EFILive Knowledgebase](#) provides a detailed resource on how to configure and use your EFILive software and hardware.

EFILive Authorized Dealer

If after reviewing this guide further assistance is required please contact the EFILive Authorised Dealer from whom you purchased your product. They are your first point of contact for EFILive support related inquiries.

How to Tune?

EFILive is tuning software and hardware - it is not a tune. Together the software and hardware give users the tools to write tunes. EFILive does not provide tune files, tuning advice or support, but do provide software support and hardware support.

If your question is in relation to the actual tuning of your vehicle (e.g. how to gain performance, economy etc.) then please ask these questions on the EFILive Forum (<http://forum.efilive.com/>).

EFILive Service Desk

Should you require additional assistance after using this support guide, please start a ticket on the [EFILive Service Desk](#). Please include the following information:

1. Dealer Name.
2. Device type.
3. Serial Number and Auth Code.
4. Your computer operating system.
5. Software and firmware versions.
6. Trace files.

Detailed information about your issue.