

XCalibrator 2 User Instructions

Read This in Its Entirety Before Using!

How to use the Xcalibrator 2:

Plug the OBD-II connector into the port under the dash of the vehicle you wish to program. Some vehicles may have a panel that needs to be removed to access it.

With the key off, use the up and down arrows to navigate through the main menu.

Main menu options include:

DTC/Data Menu:

Read DTCs	Display trouble codes
Clear DTCs	Clear all DTCs
Read Strategy	Displays factory PCM code

Program Vehicle:

Custom Tune	Choose custom tune to program into vehicle
Return to Stock	Available after vehicle is Programmed

Display Dealer:

Displays opening message screen

LCD Contrast:

Sel to Save	Adjusts LCD contrast
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Vehicle Diagnostics

The Xcalibrator 2 can read and erase DTCs (Diagnostic Trouble Codes) on the LCD display. This feature will work on any Ford based OBD2 vehicle.

The Xcalibrator 2 can also read the Strategy of the vehicle, This is very useful on vehicles that have been reflashed to a updated calibration. This feature can ensure your SCT dealer programs your vehicle with the newest release calibration.

Program Vehicle Menu:

First disconnect the fuel pump and electric fan fuses. From the main menu, scroll down to the Program vehicle menu and press select. Here you select what file type you want to install into the vehicle, Custom Tune or Return to Stock.

. In the Custom Tune menu, use the up and down arrow keys to select the file you want to program onto your vehicle. With that file displayed, press the select button to start the flashing process.

Turn the key on when prompted on the LCD display.

If there are user adjustable options available for that file, the display will read Enter Opt Params? (Enter Option Parameters) which will allow you to make minor changes to the file. Press the Cancel button to skip the custom options and go straight to the flashing process.

User Adjustable Options: Press the Select button to enable custom tune options. Using the up and down arrows navigate through the selectable options. Press the select button to make a change to that category. Press select when finished with that category to choose the next category. Repeat until finished. Once you have made all of your changes press the Cancel button to start the flashing process.

Once the flashing process is complete, the display will display "Program Complete, Press Select" followed by "Turn key off, Press Select" Turn the key off and press select. Your vehicle is now programmed and you can unplug the Xcalibrator 2.

Other Information:

Once the Xcalibrator 2 has been used to program a vehicle, the flashing capability will be locked to that vehicle until that vehicle has been put back to stock. Once the first vehicle was put to stock, the Xcalibrator 2 can be reprogrammed for another compatible Ford vehicle by any SCT dealer.

Error Recovery:

In the event the Xcalibrator2 does not successfully flash the vehicle, it will display a error message on the LCD display. If this occurs, you will want to recover the EEC by turning the key off, following the menu options to Program Vehicle, and under Program Option, choose the "Return to Stock" option. This will install the stock file back into the vehicle and allow you to attempt to reflash the vehicle with the custom program.

Data Logging:

The Xcalibrator 2 can be used as a high speed data logger on any Ford based OBD2 vehicle. A standard USB cable is needed to connect the Xcalibrator 2 to a PC using the Live Link Software available for download on our website www.sctflash.com

Data Logging is not locked to a certain vehicle and can be used on any compatible vehicle at any time.

Analog Inputs:

The Xcalibrator 2 can data log auxiliary analog inputs from 0-5 volts. You will need a 9 pin mini Din connector for the application. This cable is available from your SCT dealer.

XCalibrator2 Future Releases

SCT values our customers, and we want you to know that as we improve the features and capabilities of the XCalibrator2 you will have the opportunity to get software updates online. Your new XCalibrator2 includes internet-based firmware updates. As SCT adds new features to this product, you will be able to download and install updates from the internet. The following are just a few of the updates planned, and will be available for your product *. These updates will be available before the end of 2005.

- Real time on-screen data logging and data recording
 - o This feature will allow you to view real-time data of PID and DMR values on the screen of your XCalibrator2. You will also be able to record data and download it to a personal computer.
- End user adjustable parameters
 - o When Advantage 3.0 dealer software is released to this summer, participating SCT dealers will offer custom tuning files that have user options*. User options can be setup to allow on-screen adjustment of spark, air/fuel, tire size, axle ratio, shift points, shift firmness, MAF sensors, injectors, and much more. With user options, you can make small changes to your tune without the use of a laptop.
- Analog input display
 - o In a future update, your XCalibrator2 will be able to display an air-fuel ratio on the device screen for supported wideband O2 sensor kits. These Wideband O2 sensors will plug into an analog input on the XCalibrator2.

* Some updates and options will only work for certain vehicle models or years

Other information & Disclaimers:

On 1994-1997 Vehicles you must disconnect the battery after flashing for 30 seconds to ensure a proper reset of the keep alive memory.

The Xcalibrator 2 and Live Link data logging software should not be used by the operator of a motor vehicle while driving. Always obey local traffic laws.

If using to data log an EEC-V vehicle with a chip installed, you must use a special adapter cable to data log the vehicle. This is necessary to keep the Xcalibrator 2 and the chip communications from interfering with each other. These cables are available from your dealer or SCT directly at (407) 774 2447