



## Vehicle Programming Instructions

1994 – 2003

Ford Powerstroke 7.3 liter



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## About Evolution

Congratulations on purchasing *Evolution* by Edge Products Inc., the leader in diesel electronics and power gain technology. The following manual contains information and instructions on the proper use of *Evolution*. Please read carefully before proceeding to program your vehicle.

**Note: Read the product disclaimer before programming your vehicle.**

### TOW Program

This setting is the lowest level setting, but still increases your horsepower and torque significantly.

### RACE Program

If you plan to tow with this program, it is strongly recommended that you make appropriate modifications to your exhaust system and install an EGT (exhaust gas temperature) gauge to aid in the prevention of potential damage to your engine. Note: This setting is legal in California only for racing vehicles which may never be used upon a highway. Consult a diesel mechanic with questions.

### EXTREME Program

This program is *not* designed for towing. If you plan to tow, program your vehicle to the Tow program. It is strongly recommended that you make appropriate modifications to your exhaust system and install an EGT (exhaust gas temperature) gauge to aid in the prevention of damage to your engine. This setting is legal in California only for racing vehicles which may never be used upon a highway. For more information, consult a diesel mechanic.

### Stock Program

*Evolution* automatically makes a backup of your stock program before proceeding to add a new program. This assures that you will have the stock program if/when you desire to reprogram your vehicle to its original stock program.

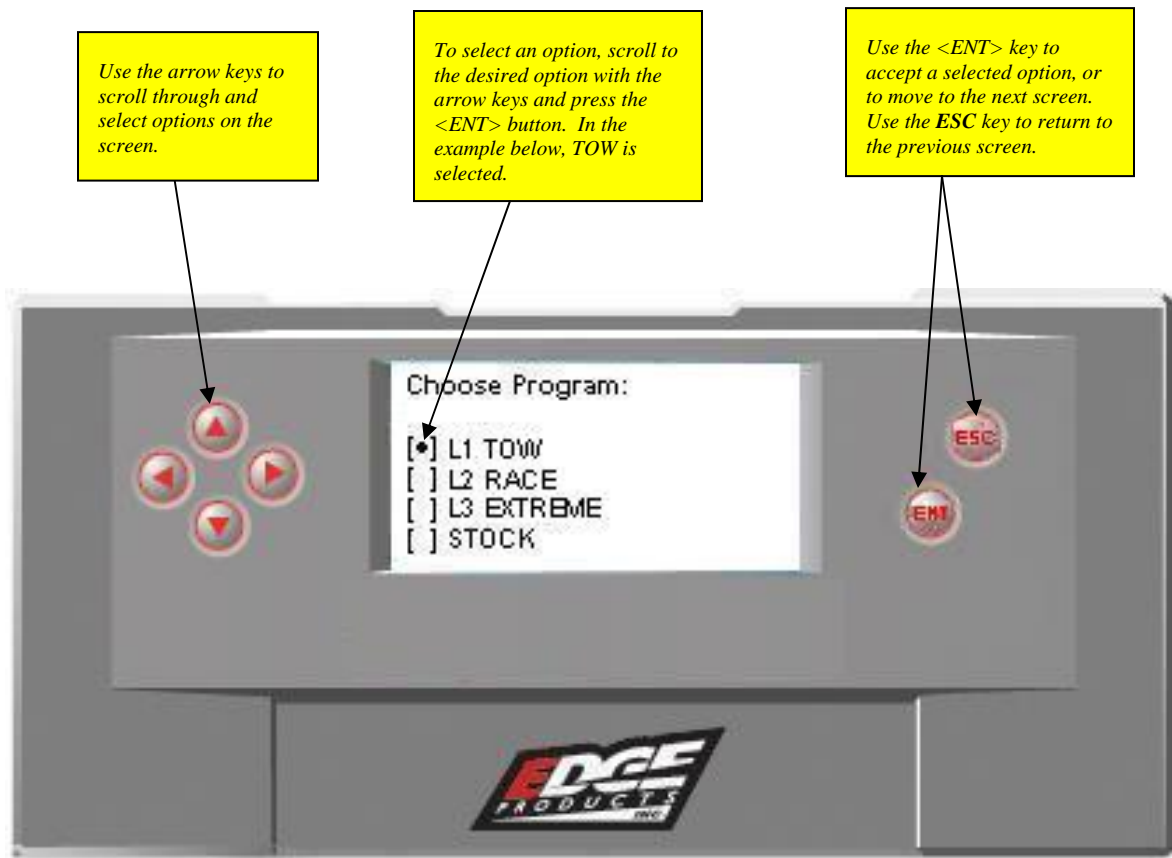
It is recommended prior to returning your vehicle to a service center that you return your vehicle's computer to the stock program. Follow the steps included in this manual for returning your program to stock.

### Diagnostics

*Evolution* is also a powerful diagnostics tool. Not only can you view trouble codes your vehicle may be displaying—which in turn allows you to fix them, but you can turn off that annoying “Check Engine” light when the problem has been addressed. No more trips to the dealer for a diagnostics scan.

## Display and Keypad

The following screen is a sample *Evolution* screen. Great effort has gone into making the *Evolution* programmer very simple to use. The arrow keys are used to scroll through options on the screen, and the <ENT> (enter) key is used to select desired options from a menu, or move to the next screen. The ESC (escape) key is used to return to the previous screen.



## Getting Started

The following are simple steps to either programming your vehicle or running the diagnostic scan tool that is included with the Evolution product. This manual is designed to help you in that process. If you have problems using this product, please contact our technical support line at (801) 476-3343 ext104.

To begin programming your truck, following the steps as outlined below.

1. Turn the ignition switch to the OFF position and locate the diagnostic connector under the dash near the steering column or under the glove compartment and connect the *Evolution* cable to this connector.

After making the connection the screen will display the Edge Products logo and eventually the screen will display the following:



The numbers in the upper left portion of the screen represent the version number of the Evolution programmer. Also, for your convenience, the letter in the upper right portion of the screen represents the current programmed state of your vehicle. The following letters may appear:

- I** – programming was interrupted. Will return to stock after pressing <ENT>.
- 1** – vehicle has been programmed to L1 - TOW.
- 2** – vehicle has been programmed to L2 - RACE.
- 3** – vehicle has been programmed to L3 - EXTREME.

After pressing <ENT>, the following screen appears:



2. Select your desired option by pressing the up or down keys on the left side of the programmer and press <ENT>. Continue to the next section.

## Power Programming

If you selected *Diagnostics* in the previous step, go to that section in this instruction manual and follow the steps. If you selected *Power Programming*, the screen displays the following message:



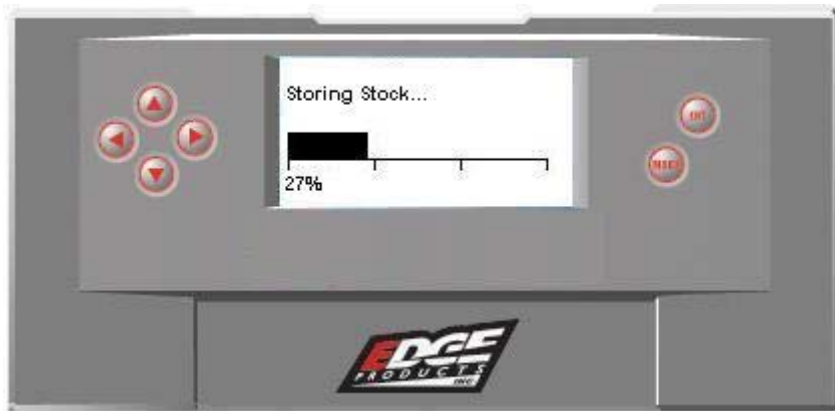
1. After turning the key ON (do not start the engine) and pressing <ENT>, the screen displays the following message:



2. After turning the key OFF and pressing <ENT>, the screen displays the following message:



3. After turning the key ON, the screen displays the following message:



4. After the stock PCM file is saved, the following screen appears:



When the stock program is saved, the following screen appears:



5. Select the desired program and press <ENT>.

Depending on which program you selected, one of the following screens appears:

**TOW**



## RACE



## EXTREME



## STOCK



6. Press <ENT> to continue or ESC to exit.

After pressing <ENT> from the program screen you have selected, the following screen appears:



#### **SPEED LIMITER WARNING:**

Installing the RACE and EXTREME power levels removes the vehicle's **speed limiter**. The speed limiter is designed to govern the vehicle's speed based on the manufacturer's recommended speed and power outputs as they relate to the power train, tires, and engine's ability to sustain high speeds. The owner of the vehicle (not Edge Products, Inc.) is responsible for making the proper modifications to the vehicle to accommodate the additional power output in a safe manner.

#### **TOWING WARNING**

The Evolution programmer is designed to increase your vehicle's power output. It does not alter the engine, drive train, or suspension components that limit the maximum towing capacity. Towing trailers that exceed the manufacturer's limitations and recommendations may cause damage to your vehicle's engine, transmission and produce excessive gas temperatures (EGT) in diesel vehicles.

Damage caused by towing weights greater than the maximum recommended by your vehicle's manufacturer or by allowing the EGT to exceed 1200 degrees F is the responsibility of the vehicle owner, not that of Edge Products, Inc.

After the programming has finished preparing files, the following screen appears:

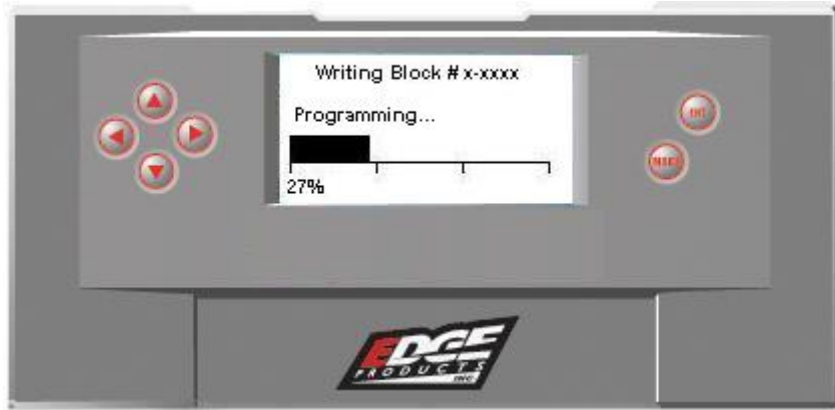


7. After turning the key OFF and pressing <ENT>, the following screen appears:



8. Turn the key ON and the following screens appear:





The programming takes approximately 3 minutes to complete.

When the program is finished, you will see the following screen:



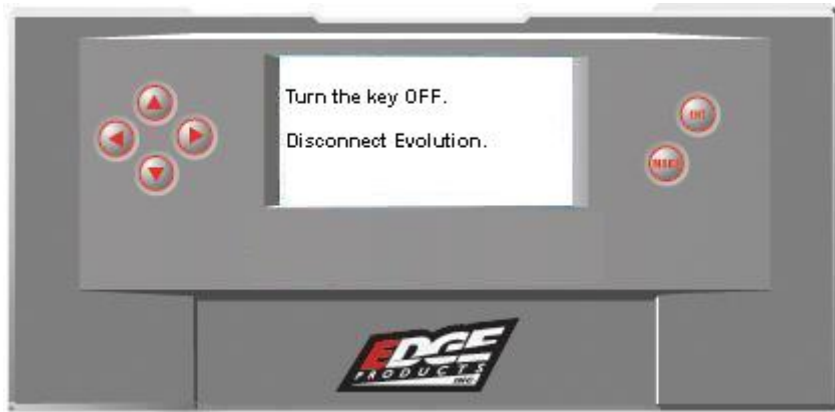
After turning the key OFF, the following screen appears:



After pressing <ENT>, the FINISHED screen appears:



Press <ENT> and the following screen appears:



Programming is complete.

## Diagnostics

The diagnostics scanner included with your *Evolution* is a powerful tool that allows you to view and clear trouble codes on your vehicle. Trouble codes are the messages your vehicle's computer logs to let you know there may be something wrong with your vehicle. The "Check Engine" light on your dash is activated by the presence of some trouble codes.

If you selected *Diagnostics* from the initial option screen after plugging in *Evolution*, the screen displays the following message:



### Retrieving Codes

If you want to retrieve and view the trouble codes on your vehicle (trouble codes are what makes your "check engine" light come on) select the *Retrieve* option. Make sure your ignition is in the ON position, but the vehicle is not started.

After selecting the *Retrieve* option, if you have trouble codes, they will appear on the screen like the following example:



If you have no trouble codes, the following screen will appear:



### ***Clearing Codes***

If you want to clear the trouble codes on your vehicle (trouble codes are what makes your “check engine” light come on) select the *Clear* option.

After selecting the *Clear* option, if you have trouble codes, they will be cleared from your vehicle and the “check engine” light will go out. However, if you do not address the issue that caused the trouble code in the first place, the light will eventually come back on. The screen will look like the following:



If you have no trouble codes, the following screen will appear:



## Performance Testing

The *Evolution* allows you to test the performance of your vehicle by timing the 0-60 and the quarter mile times. To run these tests, perform the following steps:

1. Press the [Esc] button until the *Main Menu* screen appears:



2. Select the *Performance* option and press [Enter]. The following screen appears:



3. Select the desired performance test and press [Enter]. If your vehicle is moving at this time, the following screen appears:



4. When your vehicle is at a complete stop, the following screen automatically appears:



- When you press the accelerator pedal, the test automatically begins. When the test is complete (the desired distance or speed is reached) the test will automatically stop and your time will be displayed on the screen like the following (quarter mile result example):



- After the test is complete, press the [Esc] to perform the same test again. To return to the menu, press [Esc] several times.

## **Power Gains**

The following power gains are representative of an actual test vehicle. Power gains may vary somewhat on a different vehicle or in different geographic settings.

	Horsepower	Torque
Stock:	0	0
Level 1:	60 HP	100
Level 2:	80 HP	140
Level 3:	100 HP	200

## Troubleshooting/Tips

*Tip:* Programming your vehicle may expose existing defects in your vehicle's PCM that could disable your vehicle. It is advised that you do not program your vehicle in remote locations in case of vehicle failure.

*Tip:* Keep in mind that the *Evolution* is a high performance product and that not all vehicles deliver the exact same power output when programmed with the *Evolution*. It is recommended that you select a program that will best fit your needs. Whether towing, or traveling long distances at high speeds, choose your power level wisely and keep in mind the condition and tolerances of your vehicle when selecting a suitable power level.

- **NO RESPONSE** If you do not get a response from *Evolution* when you plug it into the OBD-II port, check all of your fuses and make sure your battery is fully charged. A blown fuse can prevent the truck from communicating with *Evolution*.
- **THEFT LIGHT** If the theft light flashes rapidly after programming and the vehicle won't start, the Evolution Programmer has experienced a conflict with the Passive Anti-theft system (PATS). To recover from this, perform the following steps:
  1. Turn the key on, but do not attempt to start the vehicle.
  2. Wait for the theft light to quit flashing rapidly. (This should take about 1 minute, after which the theft light will flash multiple times about every 3 seconds.)
  3. Turn the key off and remove the key from the ignition for 30 seconds.
  4. Insert the key and turn the ignition to the ON position and wait for the normal engine checking procedure to take place, and then start the vehicle. The theft light should quit flashing.

If your vehicle still won't start and the theft light is blinking rapidly, remove the ground (-) battery cable (from both batteries if your vehicle is equipped with two) for a period of ONE HOUR to allow the theft codes to clear, then re-attach the cable and start the vehicle.

Technical Support: (801) 476-3343