

# **GAS EVOLUTION FAQs**

**Q:** WILL THIS VOID MY WARRANTY?

**A:**

No. Under the Magnusson-Moss Warranty-Federal Trade Commission Improvement Act of 1975, aftermarket equipment, which improves performance, does not void a vehicle's manufacturer original warranty (unless the warranty clearly states the addition of aftermarket equipment automatically voids your vehicle's warranty, or if the aftermarket device is the direct cause of the failure). The easiest way to check is to look in your owner's manual under "what is not covered". It is recommended that you remove the module before any service work is performed. Leaving the product installed may affect dealer diagnostic analysis and scan tool functions.

**Q:** MY TRUCK WON'T START. NOW WHAT?

**A:**

If your vehicle fails to start after a SUCCESSFUL programming session, it is most likely a problem with the Anti-Theft system. To reset your Anti-Theft system, turn the ignition switch to the "On" position (DO NOT START) and monitor the "THEFT" light. It should be flashing rapidly. Wait until it stops flashing (about 30 to 40 seconds) and turn the key to the "Off" position. Remove the key from the ignition switch for about 30 seconds and then reinsert. Turn the ignition switch back to the "On" position and attempt to start. If the vehicle still fails to start, reconnect the Evolution and follow the procedure to return vehicle to stock.

**Q:** I GOT AN "UPDATE REQUIRED" MESSAGE. WHAT DO I DO NOW?

**A:**

Update Required means that a match for the calibration in your PCM was not found in the Evolution. At this point the Evolution has stored a copy of your original calibration in memory. Disconnect and reconnect the programming cable. On the main display (logo) screen, copy down the PCM calibration number located in the upper left corner, second line. Contact Edge Products and provide this calibration number. As we may have already provided this update, we may be able to immediately send you a replacement unit. If not, please return the unit to Edge Products so we can extract this stored file and create a calibration for your vehicle.

**Q:** WHY WON'T MY 2003 EXPEDITION PROGRAM?

**A:**

In 2003, some models of Expeditions were fitted with a new style PCM that is not compatible with the current Evolution. This is easily noted by lack of any communications between the Evolution and the vehicle. The Diagnostic Functions and Performance functions will not operate and only display "Communication Error." Please return your Evolution to place of purchase for a full refund.

**Q:** WHICH LEVELS SHOULD I USE?

**A:**

Level 1 (Trans Only) is for vehicles that either have extreme modification to the engine which are outside of the programmable parameters in the tuned calibrations. It is also recommend for use on vehicles which only require improved shifting strategies.

Level 2 (Towing) is designed to offer moderate performance improvements by mildly modifying the fuel and timing strategies. This program is excellent for towing and requires the use of 87 (or better) octane fuel.

Level 3 (High Performance) is designed to extract the maximum performance from your vehicle by aggressively tuning the fuel and timing curves. It requires the use of 91 (or better) octane fuel and is NOT recommended for towing.

**Q:** SHOULD I CHANGE MY TIRE SIZE AND/OR GEAR RATIO?

**A:**

If you have a tire size that differs form stock, if you have changed your differential gear, or if your speedometer is not reading correctly for any reason, you may use the Tire Size and/or Gear Ratio features to correct the speedometer. Your Evolution manual contains information regarding tire size values and a conversion chart for popular tire sizes.

Due to differences between tire manufacturers, tire with the same labeled size (ie. 245/75-16) may not always have the same circumference. Differences in manufacturing process and tread profile can greatly affect these values. Also, differences in tire pressure, temperature and treadwear can affect tire circumference.

For the most accurate measurement, we recommend the following procedure:

- Bring tires to operating temperature and ensure pressure is correct
- Park the vehicle on a flat surface
- Mark the sidewall at the bottom of the tire and make a corresponding mark on the pavement
- Rotate the tire forward 3 times until the mark on the tire returns to the bottom
- Mark the ground and measure the distance from the first to the second mark
- If measured in inches, multiply the measurement by 25.4 to get millimeters
- Divide by 3 to get the tire circumference. This is the value you insert into the Evolution when asked for tire size

**Q:** WHAT POWER GAINS CAN I EXPECT?

**A:**

While power output can vary greatly depending on geographic location, vehicle condition, fuel quality and specific engine modifications, you can usually expect around a 12% HP gain and around a 15% Torque gain. For most 5.4L engines, this amounts to about 16 HP and 25 Ft. Lbs.

**Q:** DOES IT IMPROVE MILEAGE?

**A:**

While mileage can vary depending driver habits, vehicle condition and fuel quality, several customers have noticed as much as a 3 MPG improvement in fuel economy. While these gains are extreme, we can usually see as much as 8% (or about 1 MPG) improvement in economy.

**Q:** WHAT DOES IT CHANGE?

**A:**

The Evolution changes the following:

- Shift points (raised about 4%)
- Shift Pressures (raised about 8%)
- Ignition Timing (on levels 2 and 3 only)
- Fuel curves (on levels 2 and 3 only)
- Rev limiter (on High Performance only)
- Speed Limiter (on levels 2 and 3 only)

**Q:** DO I HAVE TO USE 91 OCTANE FUEL?

**A:**

While we highly recommend that you use 91 octane fuel when running the High Performance program, it is only required if you are experiencing detonation (pinging). If you do not experience any detonation under moderate to heavy load (throttle), you may use a lower octane fuel. Keep in mind, however, that using a lower octane fuel may slightly degrade the performance.

**Q:** CAN I PROGRAM ANOTHER TRUCK WITH IT?

**A:**

The Evolution is designed to work on one vehicle at a time. However, if you return your vehicle back to stock, you may use the Evolution on another vehicle.

The Diagnostic functions (Read Codes and Clear Codes) and the Performance functions (0 to 60 and Quarter Mile) are NOT restricted to one vehicle at a time. They will work on most OBD-II compliant Ford vehicles through 2003. They will NOT work on GM, Dodge or import vehicles.

If you have additional questions please contact Edge customer service at 1.888.360.EDGE