



**Developing Sustainable Alternatives to Fossil Energy**

**Fuel Flex Platinum™ Ethanol Vehicle Upgrade Solutions**

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<http://www.epiphergy.com>

Conversion of a modern vehicle to use E85 does not require replacing anything on the vehicle and it can be done quite inexpensively. The fuel system, emission control equipment, electronic control module, and every sensor can all be left intact and unaltered. Rather than replacing the vehicle's existing electronic control module, the Fuel Flex Platinum™ conversion system simply enhances the vehicle's OEM fuel trim capability, allowing the vehicle to utilize a wider range of fuel mixtures, from 100% gasoline to 100% ethanol. Epiphergy recommends customers use an E85-E95 blend in the summer and an E65-E75 blend in the winter in order to minimize their gasoline use while mitigating any cold-start difficulties.

Fuel Flex International's FFI Platinum™ is installed in-line between the vehicle's computer and fuel injectors. Installation takes about 15 minutes, and the device can easily be removed and reinstalled in other similar vehicles.

FFI Platinum™ vehicle upgrades do not in any way modify the vehicle's original fuel system, engine controls, or emissions control equipment. These solutions help the fuel system to deliver more fuel to the engine, but only as called-for by the vehicle's original, unmodified emissions control and fuel trim systems. This is no different in theory or in practice than installing a larger fuel tank or fuel pump. Our solutions ensure that the engine only gets as much fuel as it asks for. If, however, the engine asks for too much fuel, it is the result of faulty emissions control equipment such as the catalytic converter or oxygen sensor.

Modern vehicles (manufactured after 1990) all have fuel injection, oxygen sensors, fuel trim systems, and fuel systems that tolerate the chemistry of ethanol quite well. All vehicle manufacturers warrant these vehicles to use fuel with up to 10% ethanol. FFI conjectures that it would be extremely difficult to intentionally design a material that would tolerate 10% ethanol without problems, but that would fail at higher concentrations such as E85. FFI has asked this of several chemical engineers, and all responses have been in agreement with FFI's initial conjecture.

Unfortunately, there is a persistent popular misconception that using ethanol in a non-FFV will "void the warranty". This is not true since ethanol corrosion leaves symptomatic artifacts. Vehicle manufacturers and dealers are in a position to know this even if their average customer is not. If a component failure is caused by ethanol, there will be evidence of ethanol corrosion. In that case, then the proper course of action is to point out the cause of the failure and invalidate the warranty *for that failure only*. If not, then the dealer/major manufacturer should honor their warranty and not victimize their customer. For example, if you put ethanol in the gas tank and all the wheels fall off the vehicle, there is no "cause and effect" relationship and therefore the "fuel" issue is moot.

Based on the available information it is reasonable to conclude that:

1. The vehicle will operate properly on blends of E10 through E85 with the product installed.
2. The overall emissions will not be worse. In fact, ethanol burns cleaner than gasoline.
3. The vehicle will have acceptable reliability and longevity.
4. The use of ethanol can only "void the warranty" for vehicle components can be shown to have been damaged by the use of ethanol fuel (corrosion, etc).

Therefore, the vast majority of America's vehicles can have this product installed and operate reliably on E85 for many years. Please see the following page for Applications and Pricing.

Epiphergy, LLC

[www.epiphergy.com](http://www.epiphergy.com)

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## Applications & Pricing

Epiphergy is the only Fuel Flex International (FFI) authorized dealer/installer in Western New York. We also qualify, recruit, train, and support new FFI dealers throughout New York State.

Epiphergy can supply you with an appropriate upgrade kit for virtually any fuel-injected engine. FFI Platinum™ vehicle upgrade kits are available for Ford, Chevrolet, Chrysler, Jeep, Dodge, Saturn, Jaguar, Lotus, Fiat, BMW, Audi, Saab, Land Rover, Volkswagen, Toyota, Honda, Mazda, Nissan, Mitsubishi, Suzuki, Citroen, Peugeot, Kia, and Hyundai vehicles. Other manufacturers (connector types) are also supported and available by request.

FFI Platinum™ kits are available in several configurations:

Dual-Injector TBI & Mono-point:	\$370.00
2 Cylinder (Motorcycle/ATV):	\$370.00
3 Cylinder (Smart Car):	\$370.00
4 Cylinder Engines:	\$370.00
6 Cylinder Engines:	\$425.00
8 Cylinder Engines:	\$500.00
10 Cylinder Engines:	\$650.00
12 Cylinder Engines:	\$700.00

All Epiphergy FFI kits include:

- FFI Platinum™ Series Converter with Cold Start Assist
- Choice of cables and connectors to suit your application
- Installation and post-installation OBD diagnostic testing

### Contact Us:

Please contact us regarding your specific engine/vehicle application.

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