



Technical Service Information

GENERAL MOTORS INVALID ENGINE TORQUE SIGNAL

SERVICE INFORMATION *Continued:*

Multiply 16 by 2 which equals 32, this means there is 32% Ethanol in the fuel tank which would cause the complaints listed above when used in a vehicle that is not designed for Flex Fuel use.

Using E85 Fuel requires an increase in the fuel system's ability to feed the engine 45% more fuel at WOT than when using conventional gasoline fuel. This means higher volume fuel pumps are needed as well as larger fuel lines. This also means it needs adequate fuel pressure regulators along with higher capacity fuel injectors. Especially if it is being used in high performance applications.

E85 Fuel should ONLY be used in a Flex Fuel compatible vehicle. Items that must be avoided in the fuel system are:

1. Mild Steel
2. Standard Rubber Compounds
3. Copper Components
4. Non-Anodized Aluminum
5. Zinc and other soft metals

The above mentioned items when used with E85 fuel will corrode or severely deteriorate.

Flex Fuel built vehicles are designed to use higher levels of Ethanol by using materials compatible with E85 Fuel.

Many Thanks to Tom Johnson from Hardcore Automotive for sharing his experience with ATSG that made this bulletin possible.

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Figure 1

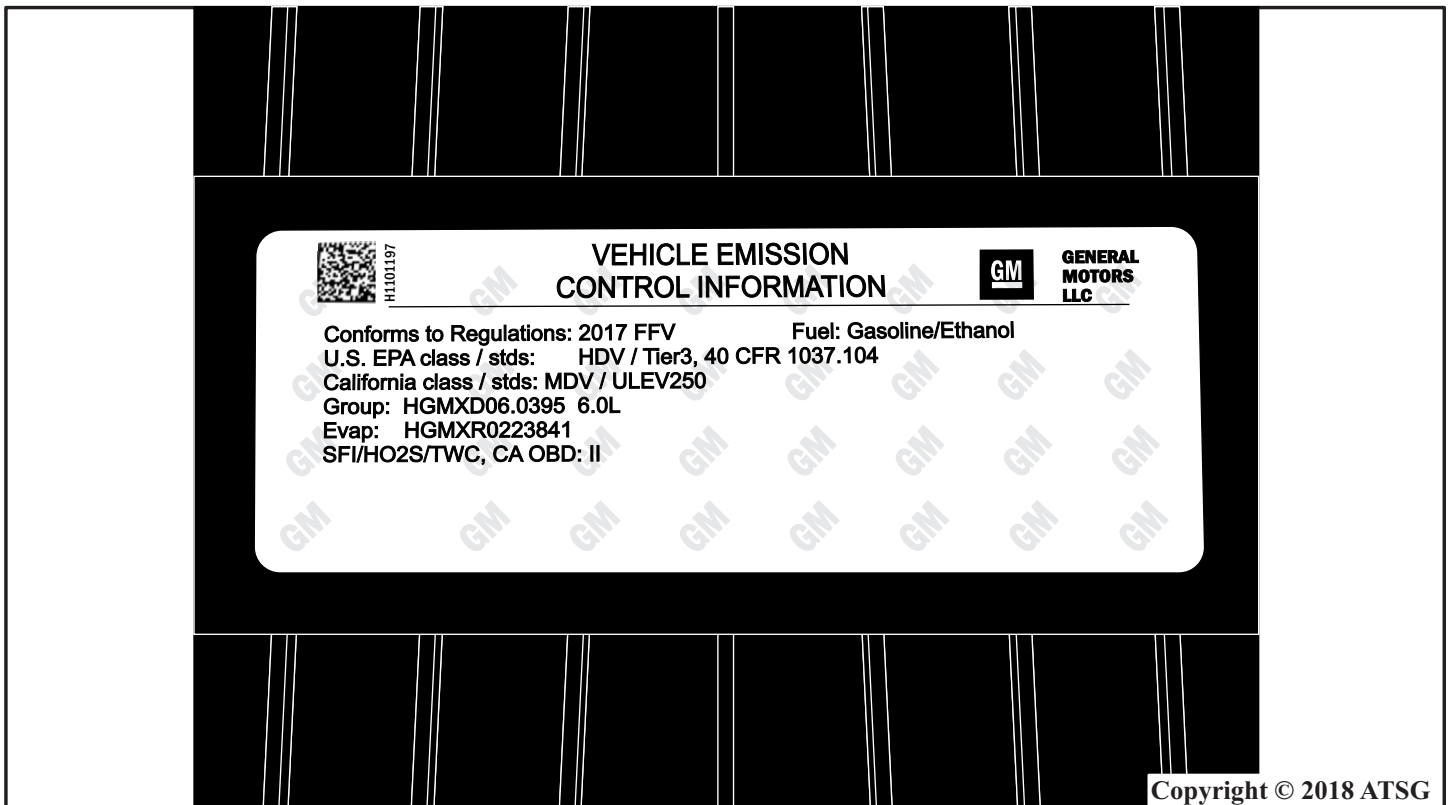


Figure 2

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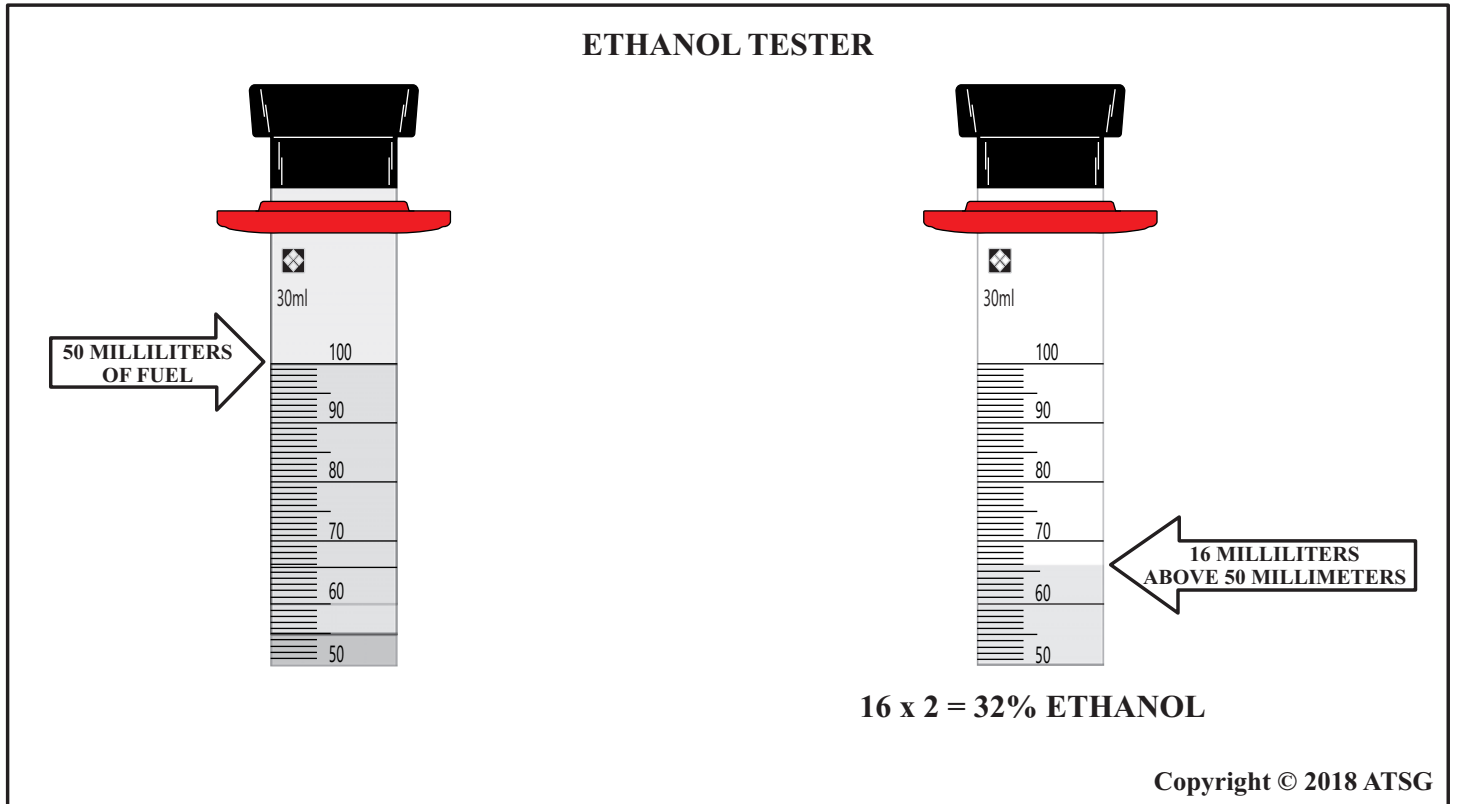


Figure 3