

# THE DRIVEABILITY GUYS

Mobile Services for Repair Facilities and Training for Technicians

## FUEL INJECTOR TESTING AND ULTRASONIC CLEANING SERVICES

### Services:

*Injector Testing*

*Flow*

*Complete Electrical*

*Open/Close Rates*

*Pressure Drop*

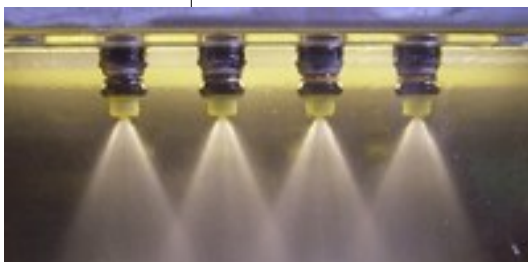
*Injector Cleaning*

*Pressurized Solvent*

*Ultrasonic*

### TAKE NOTE:

- Ultrasonic cleaning is the best way to restore injectors to like-new performance.
- Cleaning fuel injectors is cheaper than replacing them.
- Poor spray patterns can cause driveability problems.
- If any of your injectors require replacement we will let you know.



## FUEL INJECTOR TESTING AND CLEANING

We offer a complete fuel injector testing and cleaning program that can be a cost effective option in lieu of injector replacement.

Our complete testing procedure covers all electrical and mechanical functions of the injectors and injector flow measurements.

Our cleaning procedure includes flowing a solvent through the injector, a thorough ultrasonic cleaning and a second round of solvent. In addition, a flow test is repeated after cleaning.

Everything listed above is done at a cost of \$30 for 1 injector, \$80 for 4, \$90 for 6 or \$100 for 8 .

### TESTING: WHAT'S INCLUDED?

Our complete fuel injector testing may include the following (depending on application):

**Resistance:** a poor test, but we report it none the less.



Typical Top-Feed Fuel Injector.

Both top-feed and side-feed PFI fuel injectors can be cleaned.

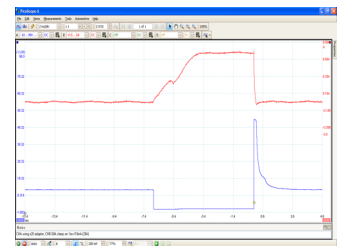
GDI fuel injector service coming soon!

See the back of this flyer for ordering information.

**Loaded Resistance:** a much better test where we measure resistance with current flowing through the injector winding.

**Voltage and Current Analysis:** The injectors are scoped to look for issues in the voltage and current waveforms.

**Open/Close Rate:** the speed of the injector pintle opening and closing can be measured before and after cleaning.



**Pressure Drop Test:** this test infers flow rate and is performed on some injectors.

**Injector Flow Test:** Injectors are mounted in a flow bench and tested before and after the injector cleaning process.

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DeKalb IL area shops  
Phone or Text:

630-917-0953

Others -  
email

[scott@driveabilityguys.com](mailto:scott@driveabilityguys.com)

or fill out service form  
(information below)

We're on the web!  
[www.driveabilityguys.com](http://www.driveabilityguys.com)

Fully Insured

Return shipping included  
in pricing. Mail the completed  
service form with a check to:

The Driveability Guys  
82 E. Hummingbird Ave  
Cortland, IL 60112

## IMPORTANT

When shipping fuel injectors,  
shippers do not like gasoline.

Be sure to clean off your fuel  
injectors and put them in at least  
two zip-lock bags. Wrap the  
injectors to avoid damage and  
then box up for shipping.



## INJECTOR CLEANING

Our injector cleaning service uses professional ultrasonic cleaning equipment and solvents. After cleaning we will report information and issues for each fuel injector individually.

Our procedure starts with passing a pressurized solvent through the fuel injector for a predetermined period of time.

Next, the injectors are submerged in a special solvent and cleaned ultrasonically while being pulsed open and closed at different rates. During this process, the sound waves cause air bubbles to form between the deposits

and the injector. This causes the deposits to chip off, or break free, from the injector itself.

Finally, a second pass with the pressurized cleaning solvent is repeated to remove any stray material from the fuel injector before final flow testing is performed.

Replacement injector O rings are not included with this service and they should be replaced before installation.

It is the shop's responsibility to obtain and replace the O rings appropriate for the engine application.

## HOW TO OBTAIN SERVICE

To have your fuel injectors serviced by us, go to our website: [www.driveabilitygus.com](http://www.driveabilitygus.com).

Scroll down until you see "Ultrasonic Fuel Injector Cleaning" and click "Click Here."

A service form will open in your browser window. Print out the form and fill it out as completely as possible. Be sure to include a good mailing address for the finished product to be shipped to.

Check the appropriate service choice box and include a check for that amount payable to: The Driveability Guys.

Package up your fuel injectors along with the form and payment and mail the package out.

In most cases, injectors will be shipped back within two days of their arrival. For an estimate on turn around time, please email: [scott@driveabilityguys.com](mailto:scott@driveabilityguys.com) to

let us know they are on their way and we will give you an estimate of when they will be shipped back to you.



Ultrasonic Fuel Injector  
Cleaning