



Send Us Your Tired, Your Dirty Injectors Yearning To Flow Free!

One of the services Arizona TPI offers is fuel injector cleaning and flow-testing. We have specialized equipment that we use to fully test and thoroughly clean your injectors.

Unlike many shops that will pump some chemicals through your injectors while they're on the car, we clean injectors off the car, which does a couple of things. First, it allows us to measure the condition of the injectors when we receive them and again when they've completed the cleaning process.

With this information we can see problems with the injectors when they come in and verify that they've been resolved in the finished product. We can also note the improvement that was realized due to the cleaning and we can also verify that all the injectors flow within acceptable limits.

Second, when we clean the injectors off the car. Each gets equal attention. When the injectors are cleaned on the car, the injector that flows the least amount of fuel will also have the least amount of cleaner pass through it.

So what is the process we go through to get a set of injectors working like new? As soon as we receive a set of injectors we will perform an initial analysis on them. We check the electrical resistance of each injector to verify it is within acceptable limits for that type of injector. Injectors that are outside the acceptable resistance limits cannot be serviced and must be replaced. We then place the injectors in our injector machine and test them for spray pattern, whether they leak when pressurized but are not electrically activated (leak-down) and verify how much fuel they flow.

After the initial check, the next step is to place the injectors in our ultrasonic cleaner. This removes the dirt, grease and grime from the outside of the injectors and helps to clean the contacts. Next, the injectors are placed in our ultrasonic tip cleaner. This

suspends the injectors so that the spray tips are submerged in an ultrasonic cleaner while the injectors are being pulsed electrically. This process is very effective for cleaning the actual spray nozzles of the injectors.

Once the ultrasonic processes are complete, the injectors are subjected to a high-pressure solvent back flush. In this step, we open the spray nozzle of the injectors electrically and then force solvent through them backwards. This helps to flush out debris that was loosened by the ultrasonic processes and also flushes any ultrasonic cleaning fluid.

The final cleaning step is to run solvent through the injectors while they are being pulsed. This simulates how they operate when installed on the car and cleans out any remaining debris.

Once the cleaning is complete, we retest the injectors to verify that the injectors are all operating within acceptable limits. If they are not, we repeat the cleaning process and retest again. Once the cleaning is complete, we replace the seals and painted injectors will receive a fresh coat of paint.

Occasionally, we'll encounter injectors that don't respond to cleaning and one or more of the set must be replaced.

If you'd like your injectors cleaned, send them, along with your contact information, to us at: Arizona TPI 717 S Hacienda Dr #104 Tempe, AZ 85281. We'll service them and then call you for a credit card number. We'll ship the injectors back to you along with our worksheet showing the initial state of the injectors and how they ended up.

The cost of injector cleaning is \$15 each for top-feed injectors and \$20 each for side-feed injectors. We'll ship them back to you within two-days of receiving your injectors. If you have questions about having your injectors serviced, please call the shop and we'll do our best to answer them!

We're a Magnacharger Dealer!

Arizona TPI has installed a number of superchargers over the years and lately we've been impressed with the superchargers from Magnacharger. We've installed a number of these on late model vehicles and we really like the design of these units. And, of course, we really like the power that they're capable of adding without any sacrifices in drivability or mileage (when you're not making use of all that extra power).

The Magnacharger is an extremely high quality product. It's quiet and efficient and it has a built-in inter-cooler, which is very important, especially in places where the air temperature can get hot. Arizona comes to mind. In warm climates, running a supercharger without an inter-cooler is asking for engine damage. Also, in addition to protecting your engine, an inter-cooler will create more power by cooling the compressed air that is entering the engine.

If you've got a late model GM V8 car or truck and you're looking for some extra power, give us a call. Now would be a great time because, for a limited time, we've worked out a deal where we can offer **free** installation with the purchase of one of these great units.

Emissions, Brakes and Starters

One of our customers was telling us the other day, that his car didn't pass emission testing and he took it to another shop where he spent a lot of money and the problem didn't get fixed. We asked why he hadn't brought the car to us and he said that he didn't realize that we also do these types of repairs.

While it's true that our focus is on fuel injection and performance enhancements, we also do regular repair work. If you've had your car to us in the past, you know we'll always treat you fairly. So, if you encounter a non-fuel injection related problem with your car give us a call, maybe we can help!