

GASOLINE DIRECT INJECTION PROGRAM

Highlights

1

Standard® offers a full line of GDI components, everything needed for a complete GDI repair

2

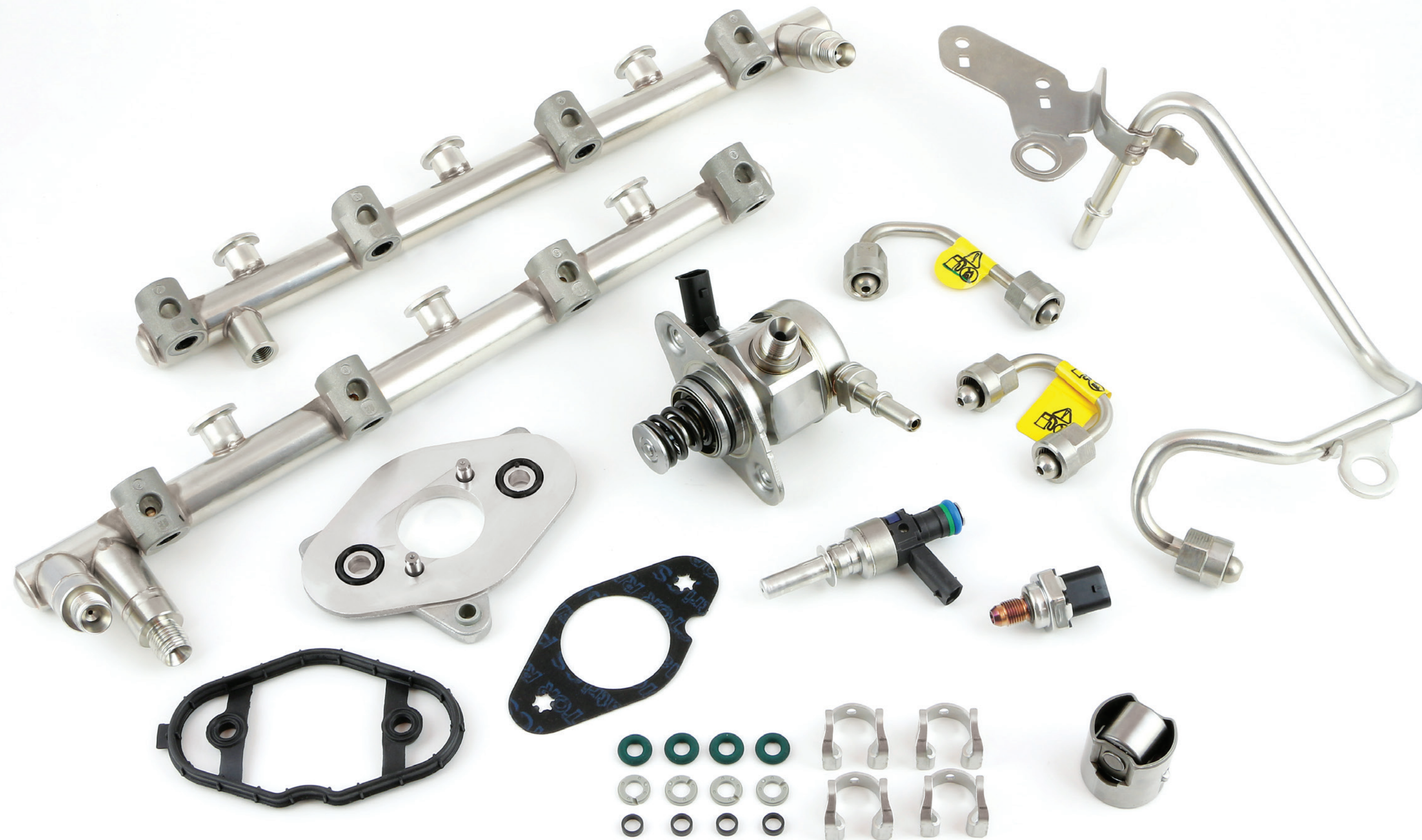
Standard® GDI injectors are always New, never remanufactured

3

Our Gasoline Direct Injectors are precision engineered and rigorously tested to ensure optimal performance



What's in your box?



GASOLINE DIRECT INJECTION

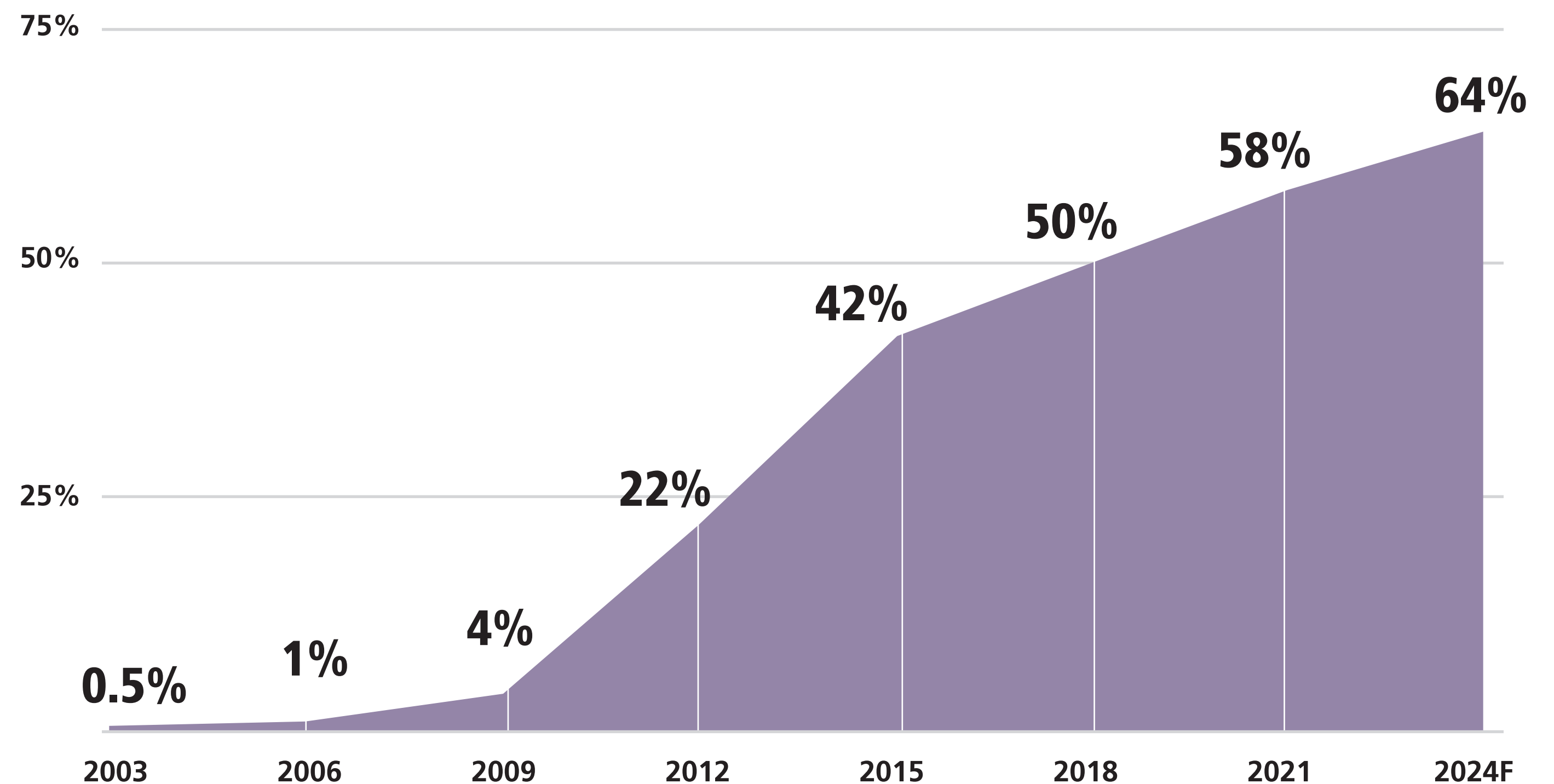
Growing Market

To help improve fuel economy, vehicle manufacturers have quickly adopted Gasoline Direct Injection (GDI) technology.

GDI is now the fastest growing fuel segment with more than half the U.S. fleet equipped with GDI engines.

In fact, the use of GDI engines has grown by over 600% since 2010!

Vehicles Equipped with GDI



Source: SMP Internal Data

GASOLINE DIRECT INJECTION

Sales Opportunities

There are many service repair opportunities within the GDI system. In 2020, Honda updated their TSB, alerting techs that the original GDI injectors are throwing numerous DTC codes and illuminating the MIL on late-model Odyssey, Pilot and Ridgeline.

Because Standard® offers a complete GDI program, we have everything Honda requires to complete this repair — a set of NEW GDI injectors, plus fuel feed lines, gaskets and seal kits!



MIL Comes On with DTC P0300-P0306 or P219A/B
Supersedes 18-025, dated May 29, 2019, to revise the information highlighted in yellow.

AFFECTED VEHICLES

Year	Model	Trim Level	VIN Range
2018	Odyssey	ALL	ALL
2019		ALL	5FNRL6...KB000001 thru 5FNRL6...KB026674
2017-18	Pilot	ALL	ALL
2019		2WD ALL	5FNYP5...KB000001 thru 5FNYP5...KB001450
		4WD ALL	5FNYP6...KB000001 thru 5FNYP6...KB006305
2017-18	Ridgeline	ALL	ALL
2019		2WD ALL	5FPYK2...KB000001 thru 5FPYK2...KB002884
		4WD ALL	5FPYK3...KB000001 thru 5FPYK3...KB012495



SYMPTOM

The MIL comes on with DTC P0300 (random misfire detected), and/or P0301-P0306 (cylinder misfire detected), or P219A/B (air-fuel ratio variation of cylinder [bank 1, rear bank/bank 2, front bank]).

POSSIBLE CAUSE

Debris from the high pressure pump or the fuel injector machining process can cause internal wear or clogging inside the injector.

CORRECTIVE ACTION

Replace the fuel injectors.



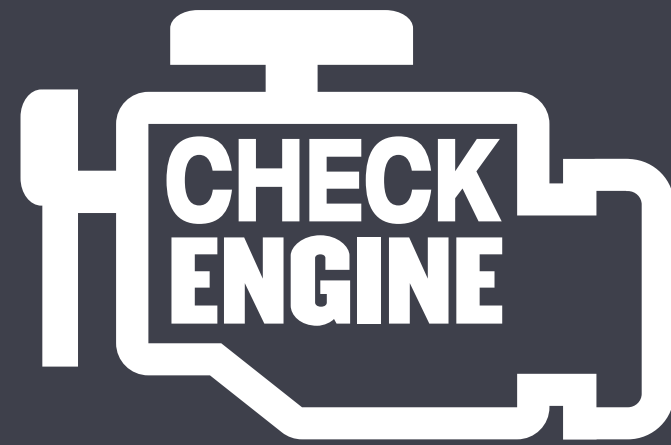
STANDARD® SOLUTION

New GDI Fuel Injector

Standard’s FJ1372 premium New GDI Fuel Injectors include the retaining clip to keep the the injectors in position while protecting against vibration

GDI COMPONENTS

Impact on Engine Systems



Fuel deposits that can foul injectors are a common problem in GDI engines — left unchecked, the deposits can actually alter the engine timing causing drivability problems



Under-maintained GDI systems can result in lower fuel economy, reduced performance and eventually, a costly valve cleaning



GDI engines operate at higher temperatures which can cause the oil to break down — it's important to strictly adhere to suggested oil change intervals on GDI engines

GASOLINE DIRECT INJECTION

What's New

GDI is the fastest growing fuel segment. Standard® is committed to introducing new GDI injectors regularly to give you the parts you need.

For the most recent applications check the online catalog at www.StandardBrand.com



FJ1489
Ford 2.3L Truck & SUVs
(2021-19)
VIO: 1M



FJ1459
Ford Transit Connect
(2020-19)
VIO: 77K



FJ1503
Audi/VW A3, Golf
(2020-15)
VIO: 70K



GASOLINE DIRECT INJECTION PROGRAM RELATED PARTS

What's New

Standard's GDI Program is much more than injectors. We are continually adding to our industry-leading GDI components group including High Pressure Fuel Pumps, Fuel Feed Lines, and other GDI replacement parts to make sure technicians have everything needed for a complete GDI service.

For the most recent applications check the online catalog at www.StandardBrand.com



High Pressure Fuel Pump

GDP401

Hyundai and Kia 2.4L (2016-11)
VIO: 2.1M



High Pressure Fuel Pump

GDP403

Hyundai and Kia 1.6L (2015-13)
VIO: 495K



High Pressure Fuel Pump

GDP703

BMW 2.0L (2018-14)
VIO: 315K



Fuel Feed Line

GDL715

Ford 5.0L (2020-18)
VIO:585K



Fuel Feed Line

GDL704

GM 6.2L (2020-15)
VIO: 6.2M



Fuel Feed Line

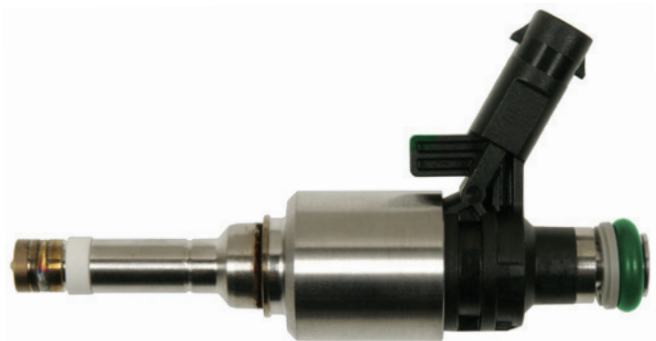
GDL706

Nissan 5.6L (2021-12)
VIO: 290K

STANDARD® NEW GDI INJECTORS

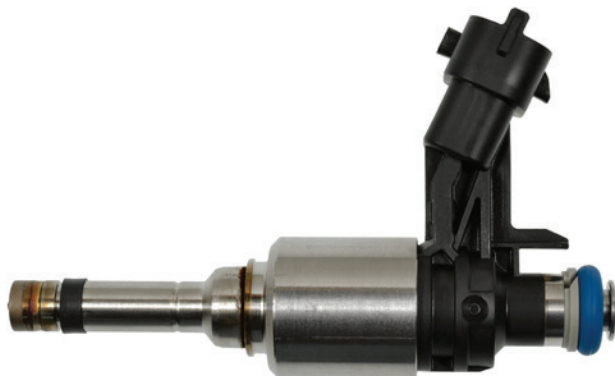
Top Movers

IMPORT
APPLICATIONS



FJ1057

Audi / VW Cars & SUVs
(2017-08)



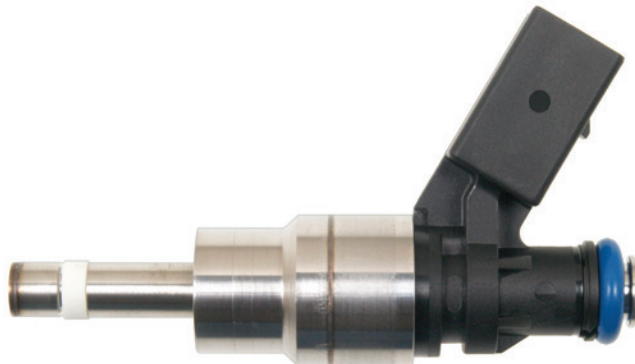
FJ1146

Hyundai / Kia Cars
(2017-12)



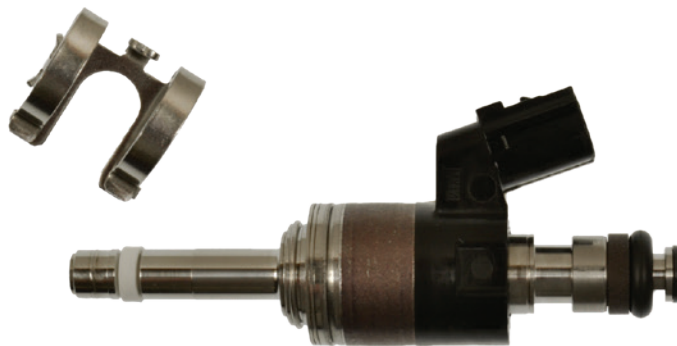
FJ778

Mazda 3, 6, CX-7
(2013-06)



FJ856

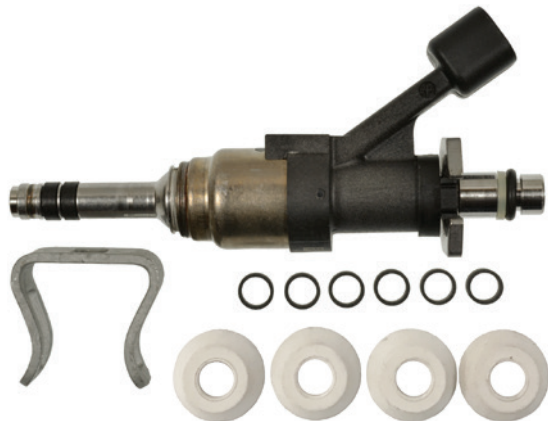
Audi / VW Cars
(2011-05)



FJ1372

Honda Odyssey, Pilot, Ridgeline
(2020-16)

DOMESTIC
APPLICATIONS



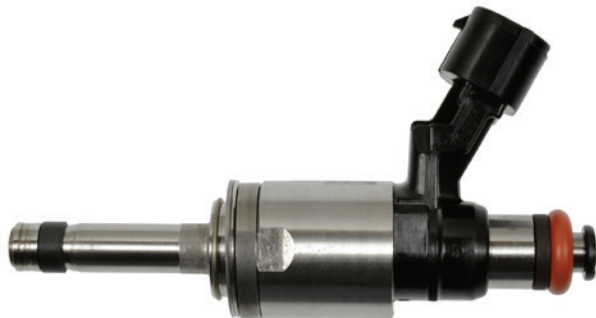
FJ1217

Chevy / GMC Trucks & SUVs
(2019-14)



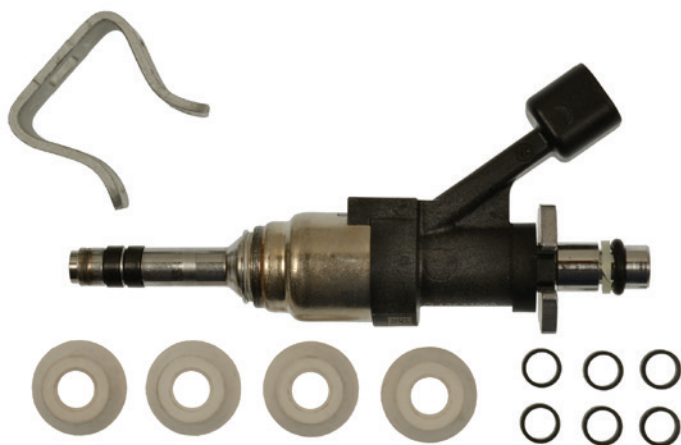
FJ994

GM Cars & Trucks
(2011-08)



FJ1138

Ford / Lincoln Trucks & SUVs
(2019-11)



FJ1297

Chevy / GMC Cars, Trucks, & SUVs
(2018-14)



FJ1157

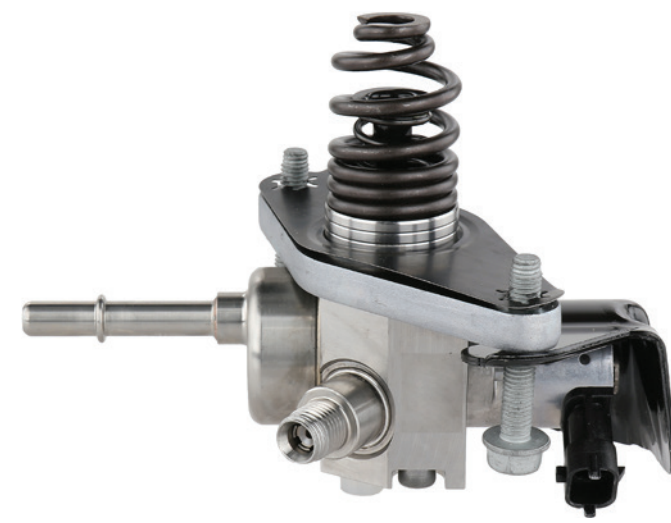
GM Cars & SUVs
(2019-12)

STANDARD® GDI PROGRAM

Related Components

The best GDI injector can't perform as designed with restricted fuel lines or worn gaskets.

Standard's GDI Program offers technicians everything they need for a complete, GDI fuel system service.



GDI High Pressure Fuel Pumps

GDI Injectors operate up to 2,000 psi. Maintaining fuel pressure is critical to the optimal performance of GDI systems

70+ SKUs and coverage through 2022



GDI O-Rings, Gaskets, and Plates

The right O-rings, gaskets and GDI plates are essential to a proper system service.

Import and domestic coverage through 2021



GDI Fuel Feed Lines

Direct-fit OE replacement lines for high- & low-pressure applications

75+ SKUs with coverage through 2021



GDI Injector Seal & Service Kits

For a complete repair, we offer complete injector seal kits

20+ SKUs covering import and domestic applications



GDI Fuel Pressure Sensors

Monitors flow to deliver precise fuel injection performance

100+ part numbers for import and domestic applications



GDI Camshaft Followers

Direct-fit OE replacement ensures proper fit, form, and function

Coverage through 2022

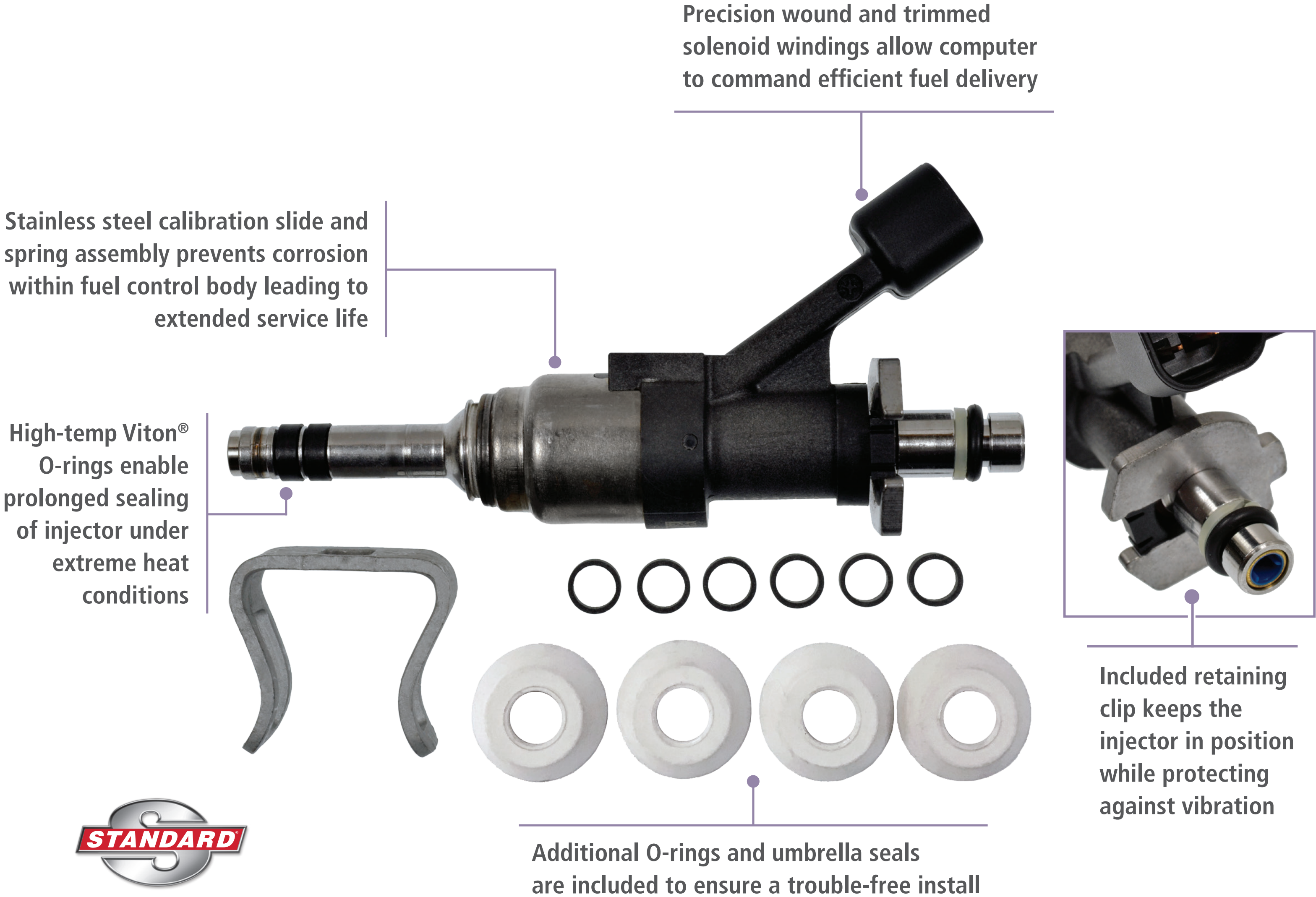
STANDARD® GDI COMPONENTS

Standard® Quality

GDI requires a special injector that can inject fuel under the high-pressure requirements of cylinder compression.



Standard® FJ1217
New GDI Fuel Injector
Chevy/GMC Truck (2019-14)



STANDARD® GDI COMPONENTS

Testing and Validation

To make sure every fuel injector meets our strict standards for precision quality, enhanced performance, and extra durability, Standard® performs initial life-cycle validation and 100% end-of-line testing. What’s more, we subject our fuel injectors to more than 35 different tests and inspections.



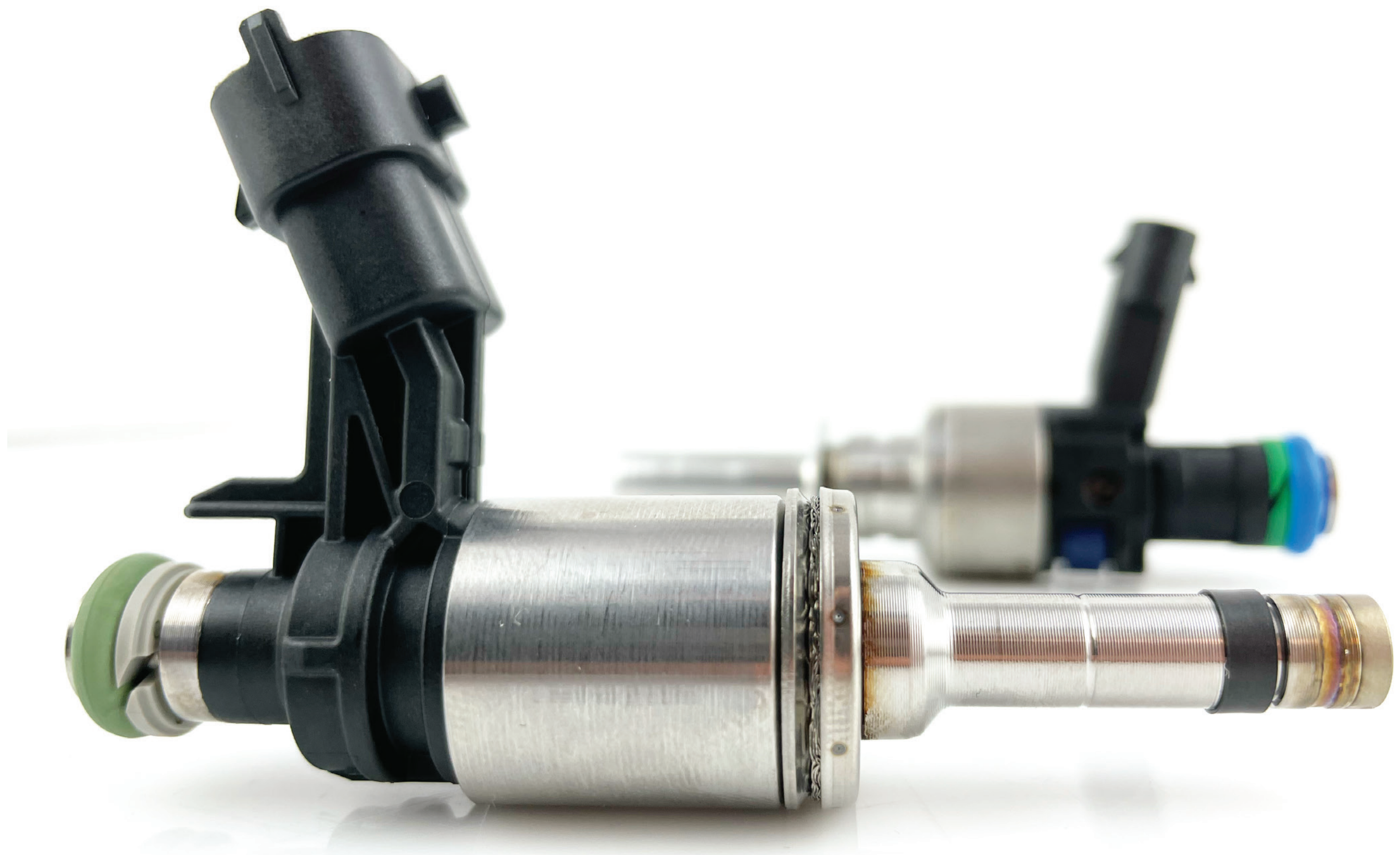
Here are just a few of the elements and components that we test and inspect:

Body Color	Endurance	Spray Pattern
Body Style	Flow Linearity	Static Flow Rate
Coil Resistance	Flow Matching	Thermal Cycle Testing
Connector Shape	Humidity Storage	3 Axis Vibration
Dynamic Flow Rate	Shock Load	and more!

STANDARD® GDI COMPONENTS

Standard® Solutions

Standard® GDI Injectors are always NEW,
never remanufactured. Here's why.



Most GDIs can't be remanufactured because they can't be disassembled to replace worn and failed components

Several aftermarket companies still offer GDI reman programs – and that's a problem. The injector isn't rebuilt, it's only cleaned, and internal components are more likely to fail sooner

Standard® only offers pristine, NEW GDI injectors that deliver optimal performance and longevity

STANDARD® GDI COMPONENTS

Standard® Pro Training Tech Tip

Standard® Pro Trainers have installed hundreds of GDI Fuel Injectors and trained thousands of technicians. Here's what they say to look out for during a GDI install.



When replacing or servicing GDI injectors, new O-rings and seals are required — you should never reuse O-rings and seals from an injector you are replacing



Any fuel line with a yellow tag, is one-time use only and must be replaced if it is removed

STANDARD® GDI COMPONENTS

Standard® Professional Training

Award-Winning In-Person, Live Virtual, and Online Learning

Standard® Pro Training delivers accredited classes that educate technicians in the latest automotive repair technologies, and techs can earn CEU credits.

An extension of Standard® training, our extensive ADA-compliant YouTube professional installation video library has over 40 million views and 50,000+ channel subscribers.



For information on replacing GDI components, search "GDI" on the StandardBrand YouTube channel



Available Classes

Gasoline Direct Injection Tips

Diagnosing GDI

Fuel Trim Diagnostics

Diagnose Electronic Fuel Pump Controls



Available Classes

GM Engine Controls

Toyota/Lexus Diagnostics

Ford EcoBoost

Misfire Diagnosis

Powertrain Electronics

IN-PERSON TRAINING



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