Are your Customers’ Cooling and Fuel Injection Systems Prepared for the Hot Seasonal Temperatures of Summer?

Get Ready with GM Fuel Injection and Cooling System Maintenance and Service Tools!

Buy Now and Save up to 25%!

EN-50790
Fuel Pump Installation Gauge
Promo Price $43.66  Regular Price $54.57

Application: Cadillac ATS, CTS, CT6; Buick Envision, Regal; Chevrolet Camaro, Colorado, Impala, Malibu; GMC Acadia, Canyon with 2.0L-T (LTG) for 2.5L (LCV, LKW) I4 engines (2013-2020)

EN-50790 is used to verify that the camshaft fuel pump lobe is at the base circle position before installing the high pressure fuel pump on 2.0L-T (LTG) for 2.5L (LCV, LKW) I4 engines (2013-2020). If the fuel pump is installed with the lobe off base circle, the fuel pump plunger may be damaged.

EN-48896
Fuel Pump Installation Alignment Gauge
Promo Price $34.93  Regular Price $43.66

Application: Cadillac ATS, CTS, CT6, DTS, SRX, STS, XTS, XT5; Buick Enclave, Envision, LaCrosse, Regal, Verano; Chevrolet Camaro, Caprice, Captiva, Colorado, Equinox, HHR, Impala, Malibu, Orlando, SS, Traverse; GMC Acadia, Canyon, Terrain; Pontiac G6; Saturn Aura, Outlook with 2.0L (LDK, LHU, LNF) or 2.4L (LAF, LEA, LE9, LUK) I4, or with 3.0L (LGW) or 3.6L (LF3, LF4, LFR, LFX, LGX, LGZ, LTT) V6 engines (2008-2020)

EN-48896 is used to verify that the camshaft fuel pump lobe is at the base circle position before installing the high pressure fuel pump on 2.0L/2.4L ECOTEC and 3.6L HF V6 engines. If the fuel pump is installed with the lobe off base circle, the fuel pump plunger may be damaged.

EN-51365
Fuel Pump Installation Gauge
Promo Price $37.49  Regular Price $39.46

Application: Buick Encore; Chevrolet Cruze, Trax, Volt with 1.4L (LE2, LV7) or 1.5L (LVF, LYT, LXY) I4 engines

The high pressure fuel pump mounts to the cylinder head at an upward angle, and the cam lobe must be at its lowest point to prevent damaging the HP fuel pump plunger. EN-51365 is placed into the fuel pump mounting bore to determine if the camshaft is in the correct position to install the fuel pump. EN-51365 indicates the correct position when it is fully seated against the mounting surface of the cylinder head. Installing the fuel pump without using EN-51365 may lead to fuel pump damage.
Pricing effective through September 1, 2020

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**EN-51092**

**Fuel Pump Installation Gauge**

Promo Price $40.91  Regular Price $54.55

Application: Cadillac CTS, CT6, Escalade; Chevrolet Camaro, Corvette, Express, Silverado, Suburban, Tahoe; GMC Savana, Sierra, Yukon with 4.3L V6 (LV1, LV3) or 5.3L, 6.2L (L83, L84, L8B, L8X, L86, L87, LT1, LT$, L8T) V8 engines (2014-2020)

EN-51092 is used to verify that the camshaft fuel pump lobe is at the base circle position before installing the high pressure fuel pump on Gen V6 & V8 engines. The fuel pump must be drawn into position evenly, and if the fuel pump lobe is not on base circle, the fuel pump push rod may be damaged. EN-51092 provides a visual indication that the camshaft is in the correct position for the pump to be installed correctly. EN-51092 installs into the fuel pump bore, and indicates the fuel pump may be installed when it is flush to the mounting surface of the manifold.

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**FUEL INJECTOR SEAL SERVICE TOOLS**

**EN-51955**

**Injector Seal Installer and Sizer**

Promo Price $42.16  Regular Price $51.42

Application: Buick Encore GX; Cadillac CT4, CT5, CT6, XT4, XT5, XT6; Chevrolet Blazer, Silverado, Traverse, Trax; GMC Acadia, Sierra with 1.2L-T (LIH) or 1.35L-T (L3T) I3 engines, or with 2.0L-T (LSY) or 2.7L (L3B) I4 engines, or 4.2L (LTA) V8 engines

Most new SIDI gasoline engines have changed to a 6 mm injector tip, instead of the current 7 mm tip, due to both higher fuel pressures and packaging constraints. The new 6 mm injector seals are installed using EN-51955, which includes two protectors due to placement of the two injector seals, a seal pusher to ensure the seals are not over-stretched on installation, an initial seal compressor due to the seal durometer (hardness of the seals), and a seal sizer to put the seal at the final 6.5 mm size for installation into the head. Installing the seals without using EN-51955 will damage the seals and could result in fuel or combustion pressure leaks.

**EN-49245**

**Injector Seal Installer and Sizer**

Promo Price $122.24  Regular Price $152.80

Application: Buick Enclave, Encore, Envision, LaCrosse, Regal, Verano; Cadillac ATS, CTS, CT5, CT6; Chevrolet Blazer, Cruze, Equinox, Malibu, Orlando, Trax; GMC Terrain with 1.4L-T (LE2), 1.5L (LFV, LYY), 2.0L-T (LAF, LTG), 2.4L (LEA, LE9, LUK) or 2.5L (LCV, LHN) I4 engines, 3.0L (LGW, LGY) or 3.6L (LF1, LF3, LF4, LFX, LFW, LGX) V6 engines

The SIDI systems used 2010-later LF1 3.6L V6 and LAF 2.0L ECOTEC has 2 seals in the injector tip. These seals must be installed into their grooves, and then sized to the engineered dimension before the injectors are installed into their bores in the cylinder head. There are two seal installation pilots included in EN-49245 (one for each groove) which allow the seal to slide onto the injector tip without catching on any machined surface, or the incorrect groove. EN-49245 also includes a seal installer to drive the seal over the pilot and into the groove, and a sizer to compress each seal into its groove and ensure its size prior to installation. EN-49245 must be used to install the seals correctly and to ensure they are sized correctly for leak-free operation.

Please note that 2013-newer injectors from Bosch, Continental and Delphi have slightly larger injector tips, and require the protector ramps from EN-51105 Injector Seal Installer Adapter set. These are used with the installer and sizer from EN-49245.
**EN-51105**

**Injector Seal Installation Guides**

Promo Price **$11.70**  
Regular Price **$15.00**

**Application:** Buick Enclave, Encore, Envision, LaCrosse, Regal, Verano; Cadillac ATS, CTS, CT5, CT6; Chevrolet Blazer, Cruze, Equinox, Malibu, Orlando, Trax; GMC Terrain with 1.4L-T (LE2), 1.5L (LFV, LYX), 2.0L-T (LAF, LTG), 2.4L (LEA, LE9, LUK) or 2.5L (LCV, LHN) I4 engines, 3.0L (LGW, LGY) or 3.6L (LF1, LF3, LF4, LFX, LFW, LGX) V6 engines

The Bosch and Delphi SIDI system used on 2013- later engines has two seals on each injector tip. These seals must be installed into their grooves and then sized to the engineered dimension before the injectors are installed into their bores in the cylinder head. There are two seal installation pilots included in EN-51105 (one for each groove) which allow the seal to slide onto the injector tip without catching on any machined surface, welded tip end, or the incorrect groove. EN-51105 allows use of a seal pusher to drive the seal over the pilot and into the groove, and a sizer to compress each seal into its groove and ensure its size prior to installation. The seal pusher and sizer from EN-49245 must be used to install the seals correctly and to ensure they are sized correctly for leak-free operation.

**EN-48266**

**Injector Seal Installer and Sizer**

Promo Price **$93.42**  
Regular Price **$116.78**

**Application:** Pontiac G6, Solstice; Saturn Aura, Sky with 2.0L-T (LDK, LNF, LTD) I4 or 2.8L (LAU), 3.0L (LF1, LFW) or 3.6L (LLT, LFX, LFY, LF3) V6 engines

EN-48266 installs the injector tip seal on 2008-2014 single-seal SIDI injectors. The seal is placed onto the guide ramp and pushed into position in the injector seal groove. Then the included seal sizer is placed over the seal to compress it to the final size needed to install the injector into the cylinder head. Failure to use EN-48266 as directed will result in a seal leak.

**EN-51146**

**Injector and Rail Assembly Replacer and Seal Sizer**

Promo Price **$988.21**  
Regular Price **$1,085.94**

**Application:** Buick Cascada, Encore, Verano; Chevrolet Cruze, Equinox, Malibu, Trax, Volt; GMC Terrain with 1.4L (LE2), 1.5L (L3A, LFV, LYX), 1.6L (LWC), 1.8L (LKN)

EN-51146 removes and installs the fuel injectors and fuel rail as an assembly on SGE and MGE family I4 engines. The injector hold-down bolts are replaced with the included double-ended studs, or with EN-51146-150 stud for some 1.4L and 1.5L applications, and the extension rods are attached to the stud ends. The extensions are bolted to the included remover plate for 1.6L and 1.8L engines, or to EN-51146-100 for 1.4L and 1.5L engines. The included slide hammers are attached to the plate and used to remove the injectors and rail assembly from the head. Once repairs are complete, this assembly can be used to reinstall the assembly. EN-51146 also removes and installs the injector seals from the tips of the injectors. EN-51146 includes a remover, installer and guides, a sizer and keepers to hold the sized seals in the desired size until installation.
Pricing effective through September 1, 2020

Buy Now and Save up to 25%!

EN-51146-100
Injector and Rail Assembly Remover Plate
Promo Price $\textcolor{red}{147.47}$  Regular Price $\textcolor{red}{155.23}$

Application: Buick Encore, Verano; Chevrolet Cruze, Malibu, Trax, Volt with 1.4L (LE2), 1.5L (L3A, LFV, LYX) I4 engines

EN-51146-100 injector and rail is used on 1.4L and 1.5L SGE engines with components from EN-51146 to remove the injector and rail assembly from the cylinder head.

EN-51146-150
Injector and Rail Assembly Remover Studs
Promo Price $\textcolor{red}{94.30}$  Regular Price $\textcolor{red}{117.87}$

Application: Buick Cascada, Encore, Verano; Chevrolet Cruze, Equinox, Malibu, Trax, Volt; GMC Terrain with 1.4L (LE2), 1.5L (L3A, LFV, LYX), 1.6L (LWC), 1.8L (LKN)

EN-51146-150 injector remover studs are used on certain Delphi and Hitachi injectors, along with components from EM-51146, to remove and install the injector and rail assembly on SGE and MGE family I4 engines.

CH-47976
Active Fuel Injector Tester Kit
Promo Price $\textcolor{red}{2,120.75}$  Regular Price $\textcolor{red}{2,495.00}$

The AFIT addresses these important diagnostic issues:
- Improves the accuracy of diagnostics for the AFIM (Air Fuel Imbalance Monitor) system due to increased emission requirements.
- Improves the accuracy of existing service procedures to reduce misdiagnosis of current fuel systems.
- Eliminates wasted time and loss of technician productivity from replacing parts that are not faulty.
- Improves customer satisfaction by avoiding comebacks due to not fixing the problem the first time.

The device uses a microprocessor and software program to completely automate the test procedure. It eliminates variations in test results due to individual testing methods or physical property changes of the fuel. All readings and calculations are performed by software, which eliminates the possibility of math errors and omitted calculations.

Complete test results, including balance percentages and flow rates, are displayed on the PC for printing and attachment to the repair order.
Pricing effective through September 1, 2020

Buy Now and Save up to 25%!

COOLING SYSTEM TOOLS

GE-47716
Coolant Refill System (Vac-N-Fill)
Promo Price $434.16  Regular Price $510.78
Application: Universal
GE-47716 is used to evacuate and refill the vehicle cooling system. This tool greatly increases the coolant fill efficiency on all cooling systems. This tool works extremely well on cooling systems prone to airlock. The tool duplicates the fill process used in the vehicle assembly plants and allows technicians to pull multiple deep vacuums on the entire cooling system. The technician can pull a deep vacuum to find and correct coolant leaks before filling and thermo-cycling the system. GE-4 7716 also allows the technician to remove coolant from a system using an included pipe to pull coolant into the tool drain reservoir.

J-24460-A
Cooling System Pressure Tester
Promo Price $110.50  Regular Price $130.00
Application: Universal
This universal cooling system and cap pressure tester enables the technician to perform fast cooling system diagnostics. Comes complete with carrying case.

J-24460-92
Surge Tank Test Adapter Kit
Applications: Universal 1999 to current
Promo Price $102.04  Regular Price $120.05
Adapts J-24460-A Cooling System Pressure Tester to the surge tank on vehicles without a radiator cap.

GE-47716-30A
Cooling System Fill Adapter
Promo Price $128.95  Regular Price $151.70
Application: CAC (Charge Air Cooling) Systems on Camaro, ATS, CT6, CTS
The GE-47716-30 adapts the GE-47716 Vac-N-Fill to the Jiffy-Tite male quick connect fitting on the charge air cooling system in the Cadillac CTS with LF3 engine. The Vac-N-Fill can then be used to evacuate all air from the charge air cooling system before the refill procedure to avoid pump noise, and loss of cooling system efficiency and vehicle performance. The adapter is also used with the J-24460-A Cooling System Pressure Tester hand pump and GE-47716-8 Vac-N-Fill Cap to pressure test the CAC system for any leaks before beginning the fill procedure.
Pricing effective through September 1, 2020

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**J-43181**

3/4" Heater Line Quick Release Tool

Promo Price $4.58  Regular Price $5.73

Application: C/K Truck

The heater lines coming from the I.P. have quick connect style fittings. Access to the connectors is very limited and they have four tangs that have to be depressed at the same time. J-43181 is slid over the heater line and clamped on the line. The tool is then pressed into the connector to release it from the line.

**J-29545-6A**

Fluorescent Coolant Leak Tracer Dye (6 1/4 oz. bottles)

Promo Price $18.01  Regular Price $24.01

Application: Universal

One ounce of coolant additive helps pinpoint leaks in radiators, water hoses, heaters and engine parts such as water pump and freeze plugs. The additive glows a bright green color and is water soluble for ease in clean-up and repeat inspections.

**J-38185**

Heater Hose Clamp Plier

Promo Price $16.37  Regular Price $21.83

Application: Universal

**GE-52582**

Cooling System Drain Hose

Promo Price $111.62  Regular Price $124.02

Application: 2019-later Silverado 4500HD Medium Duty Trucks

The cooling system on Silverado 4500HD trucks uses a quick-connect fitting to drain the radiator. When draining is required, GE-52582 connects to this quick-connect fitting to allow draining the coolant system.

To drain the system, close the valve on GE-52582, then attach it to the radiator fitting. Route the hose end of GE-52582 into a suitable bucket, then open the valve to allow coolant to drain from the radiator.

1-800-GM-TOOLS, Fax 800-283-8665

Bosch Automotive Service Solutions Inc., 28635 Mound Road, Warren, MI 48092

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