IGNITION PROGRAM Highlights



Standard[®] and Blue Streak[®] offer more than 880 coils for 99% aftermarketleading coverage



Every ignition coil is subjected to extensive testing and product validation



Popular Blue Streak[®] Heavier-Duty Coils are available in multi-packs for a complete coil service



What's in your box?



StandardCoils.com

STANDARD® IGNITION PROGRAM

Growing Market

The North American ignition coil market is expected to expand at a compound annual growth rate of 3.1% through 2031.

Even with the growth of hybrid and electric powertrains, high OE failure rates will continue to drive aftermarket demand for ignition coils.

Did You Know

Additionally, pencil ignition coils are projected to account for more than 33% of the sales through 2031.

	400	of ar
	380	L
	360	
Millions of \$	340	
	320	
	300	
	280	
	260	
	240	
	220	
	200	
		2021

Projected Growth of Ignition Coils

10 Diesel Vehicles Jse Ignition Coils 2022 2023F 2024F 2025F 2026F 2027F 2028F 2029F 2030F	OO New Hybr	rid, Gas								
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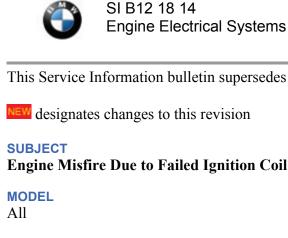
Source: SMP Internal Data, Future Market Insights Ignition Coil Growth Report



STANDARD® IGNITION PROGRAM Sales **Opportunities**

Some manufacturers, such as BMW, have released TSBs recommending that ignition coils be replaced with something other than ones produced by the OE supplier due to faults causing failure. In the case of the N52T engine, OE ignition coils were failing because of hightemperature fluctuations, which caused the coils to deteriorate over time.

Standard[®] and Blue Streak[®] offer a complete Ignition line designed to solve OE problems such as this one.



With the N51, NEW N52*, N52K, and N52T engines

NEW *Only N52 produced from 4/2006

SITUATION

- the DME.

basic diagnosis.

CAUSE

During operation with high temperature fluctuations, the different materials used in the Bosch ignition coil construction can deteriorate over time, leading to a failure.

BLUE STREAK BY STANDARD SOLUTION New Ignition Coils

Blue Streak's UF-667 premium Ignition Coils are manufactured using high-quality materials to withstand extreme conditions. They also undergo extensive testing to ensure reliability

Engine Electrical Systems

September 2015 Technical Service

This Service Information bulletin supersedes SI B12 18 14 dated March 2015.

• The Check Engine or Service Engine Soon (MIL) lamp is on with misfire fault(s) stored in

• Intermittent performance or rough running without a relevant DME fault stored

The most likely cause is that an ignition coil has failed, which can be confirmed in many cases with



2014 BMW 320i

OE PROBLEM

Engine Misfires Due to Failed Ignition Coil



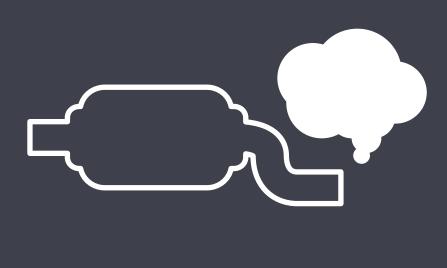
STANDARD® IGNITION PROGRAM

Impact on Engine Systems

Exposure to heat and water intrusion are two of the leading causes of premature failure in OE coils



If the ignition coil is not operating as it should be, the battery will not send the right amount of power to the spark plugs and your vehicle will burn more gas to compensate



An ignition-related misfire can damage the catalytic converter and oxygen sensors in a few miles or several minutes of driving if a vehicle doesn't register the faulty coil and continues to feed fuel to the cylinder



STANDARD® IGNITION PROGRAM What's New

Standard[®] is committed to regularly releasing new coils to provide the coverage you need. With high OE failure rates, technicians continue to look for reliable aftermarket alternatives, even on late model vehicles. Standard already offers over 880 ignition coils and is committed to regularly releasing new applications to give technicians the aftermarket solutions they are looking for.

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



UF882 Mazda Cars (2021-19) **VIO: 808K**







UF893 Ford Super Duty (2022-20)**VIO: 194K**

UF874 Subaru Cars and SUVs (2020-19) **VIO: 511K**







STANDARD® AND BLUE STREAK® IGNITION COILS Top Movers



STANDARD® IGNITION PROGRAM Additional Coils and **Related Parts**

In addition to the traditional Coil-On-Plugs, Standard[®] offers an array of other high-quality coils and components to help with ignition repairs. From unique coil designs to service kits, Standard[®] has you covered.



Coil Near Plugs (CNP)

Reinforced bobbins prevent voltage flashover for extended service life.

High-dielectric epoxy is injected into the case and pulled into vacuum to eliminate air pockets and prevent moisture intrusion or thermal breakdown



Ignition Coil Connectors

Utilizes high-grade materials to ensure peak conductivity and perfect connections



Cassette Coils

High heat-resistant housing compound and coil boot withstands heat stress for longer durability

100% pure copper windings in the primary and secondary bobbins to improve durability and provide higher resistance to internal shorts and dielectric breakdown



Coil Packs

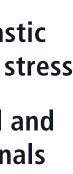
Housing made from thermoplastic compounds to withstand heat stress

Full E-Lam core of silicon steel and solid brass high-voltage terminals protects against corrosion.



Coil-On-Boot Service Kits

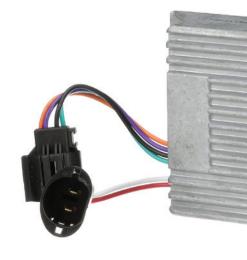
Multiple-piece design featuring a phenolic tube and silicone tip. **Includes spring and resistor**



STANDARD[®] IGNITION PROGRAM

Other Ignition Systems

In addition to newer style coils, Standard[®] offers multiple ignition components for classic vehicles. These components help restore performance on older, higher-mileage vehicles.







Ignition Modules

Standard Ignition Modules use top of the line technology to ensure perfect timing every time

Matches the OE part and ensure better connections, greater dependability, and longer life despite being subjected to intense vibrations and the tough operating environment of the engine

300+ SKUs

Distributor Assemblies

High-dielectric strength cap ensures accurate energy transfer and spark timing, while stainless steel screws protect against corrosion

Improved gear design for enhanced performance in high-torque applications

Available for GM 4.3L V6 and 5.0/5.7L V8 applications

Spark Plug Wire Sets

Designed, built, and tested to meet or exceed the tough international IATF **16949 quality standards**

Standard[®] Spark Plug Wire Sets feature matching boots, a wire core and jacket, and extras like clips, trays, looms, and numbered leads

Available for domestic and import vehicles





BLUE STREAK® MULTI-PACKS Problem Solving Kits

Many of the most popular Blue Streak® Heavier Duty Coils are now available in multi-packs. These are available for both import and domestic vehicles and help technicians solve known problems at once.

A total of 30 Blue Streak[®] Coil Multi-Pack Kits are currently available with more to come.





FD503K8 Ford Trucks, SUVs & Cars (2016-97)







UF349K6 Nissan/Infiniti Trucks, SUVs & Cars (2020-02) UF303K6 General Motors SUVs (2008-02)





STANDARD® IGNITION COILS Engineering Improvements

Premium parts start with premium components. Each Standard[®] and Blue Streak[®] Ignition Coil is engineered with features to ensure that our Coils will perform under the most extreme conditions.

Heat is a leading cause of coil failure. The Blue Streak[®] FD503 features multiple design improvements to improve insulation and reduce operating temperatures. This means better-performing and longer-lasting ignition coil.

Engineered and tested

to match or exceed OE for spark energy output,

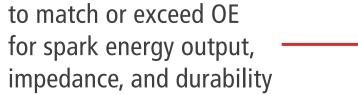
Boot & Spring Assembly High-temp boot prevents high-voltage leaks while stainless steel spring with internal ferrite noise suppressor prevents RFI











Primary & Secondary Bobbins with Winding Copper wound wire ensures

high-voltage for peak performance while high dielectric strength bobbins prevent voltage flashover



Coil Housing – High-impact material bonds to epoxy to ensure a longer service life



Core – Internal neodymium permanent magnet maximizes high-voltage output at all speeds



Isolator – High-voltage resistant thermoplastics prevent premature failure

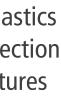


Coil connector Advanced thermoplastics ensure proper connection and resist heat fractures

FD503 Ford / Lincoln (2019-97) 6.9M VIO







STANDARD® IGNITION COILS Engineering Improvements

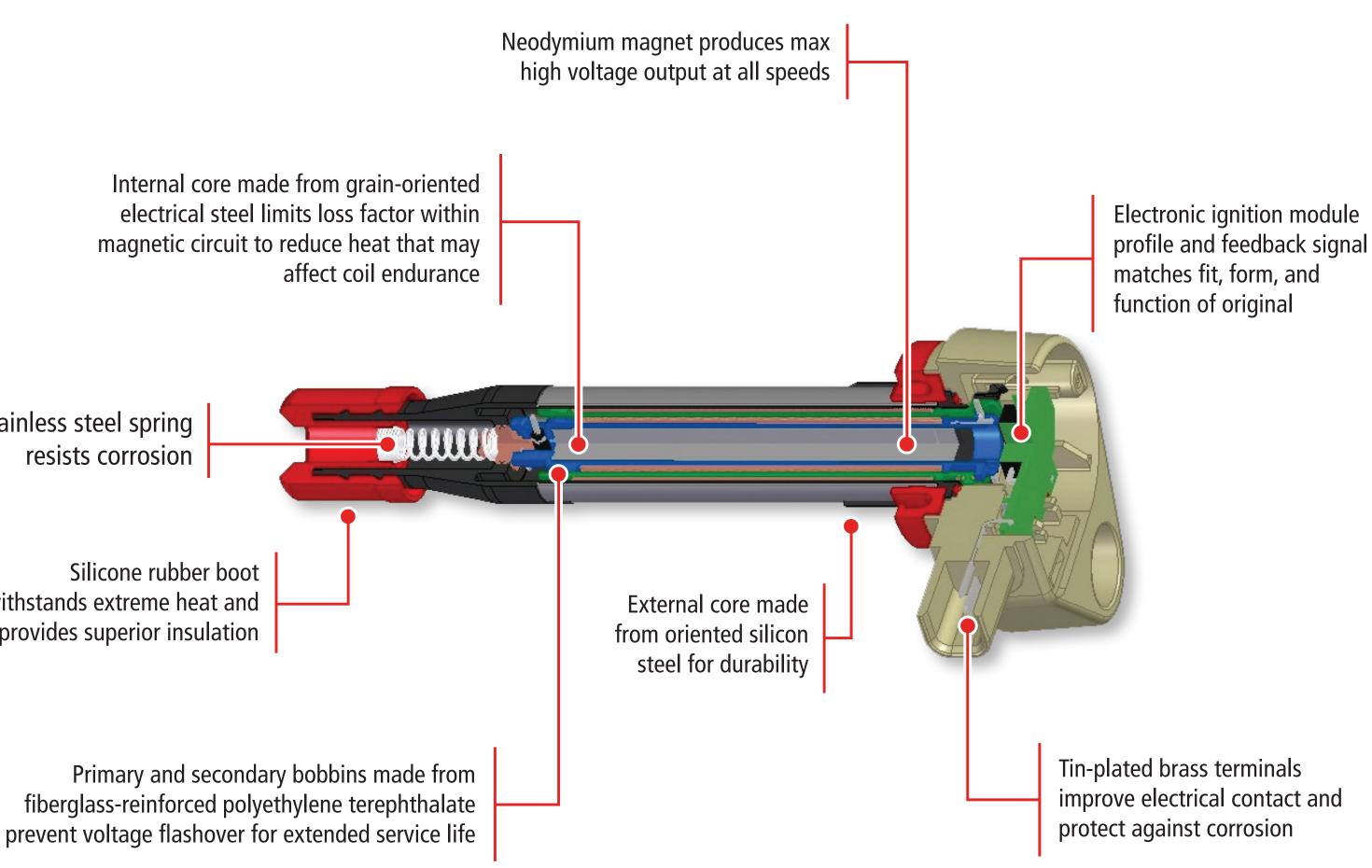
A Coil-On-Plug acts as both the ignition coil and the spark plug wire set: it creates spark energy and contains and delivers the high-voltage energy to the spark plug.

Each Standard[®] and Blue Streak[®] Coil features an electronic ignition module profile and feedback signal that matches the performance designated by the vehicle manufacturer. Standard[®] and Blue Streak[®] Coils also feature a stainless steel spring to resist corrosion and a neodymium magnet to produce max high-voltage output at all speeds for a superior coil.

Stainless steel spring resists corrosion

Silicone rubber boot withstands extreme heat and provides superior insulation



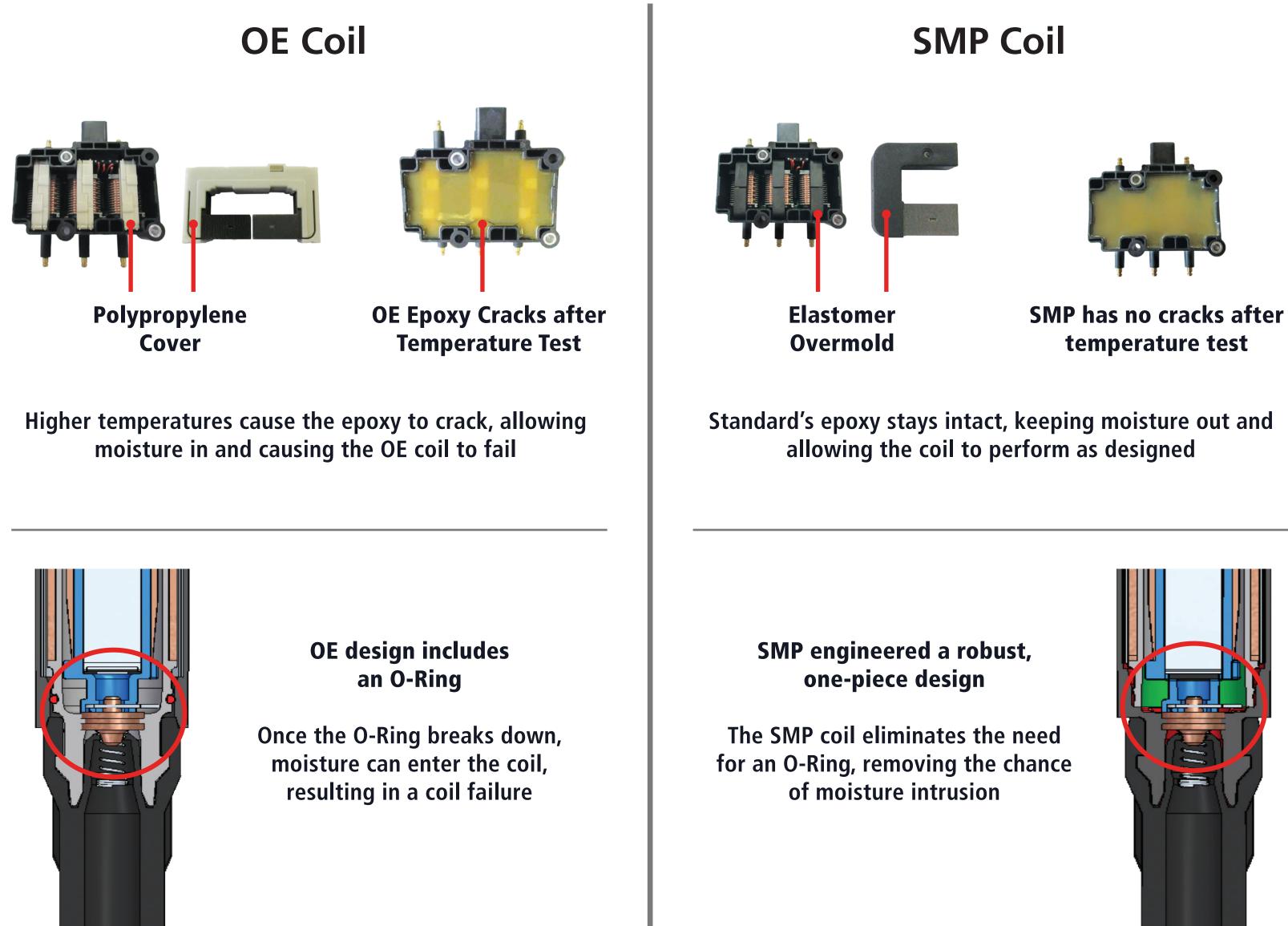


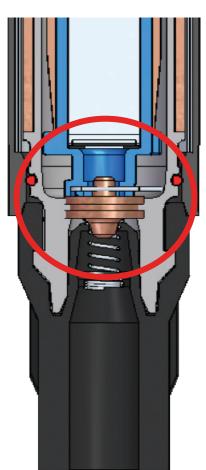
Coil-on-Plug Pencil Coil UF242

Honda/Acura (2010-99)

STANDARD® IGNITION COILS Engineering Improvements

In addition to an inability to manage high temperatures, moisture intrusion is another common reason why OE coils fail. Our engineers identify OE weak points and design coils that last





Eliminating Moisture Intrusion





STANDARD® IGNITION COMPONENTS

Manufacturing

Standard[®] engineers and manufactures more than 6 million high-quality Ignition Coils and components at our 60,000 sq-ft facility in Bialystok, Poland every year.

Highlights of the IATF 16949 and ISO 9001-certified facility include lean manufacturing methods and vertically integrated manufacturing processes that include multi-spindle winding, injection molding, potting, curing, and welding.

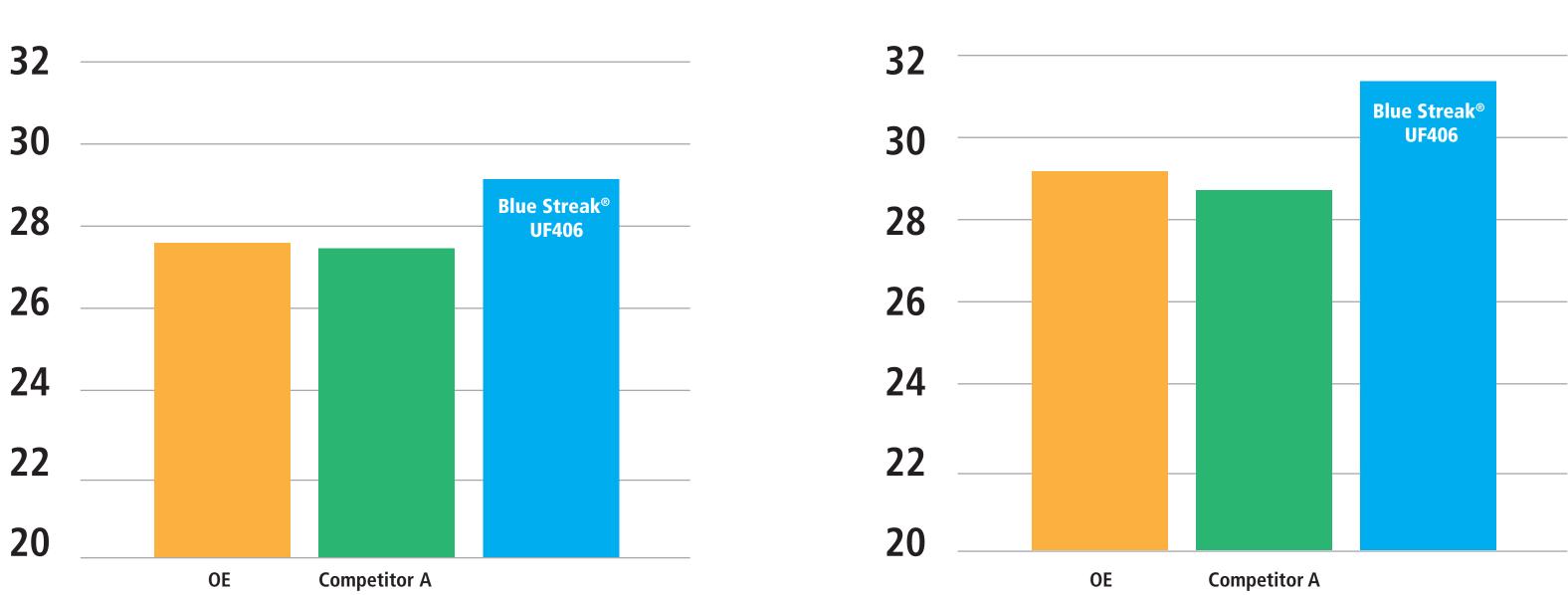


STANDARD® IGNITION COMPONENTS

Testing and Validation

To ensure quality, all products manufactured at the SMP Poland facility undergo a full spectrum of measurement and life testing in addition to a full range of environmental analysis that includes thermal shock, thermal cycling, salt spray, vibration, and storage tests.

The result is a line of premium Ignition components that perform flawlessly and stand up to real-life conditions.





Secondary Voltage [kV]

Spark Energy [mJ]

The Blue Streak[®] FD503 features a secondary voltage rating that is 5% higher than OE. This Coil also has a higher discharger current, as well as 7% higher spark energy than OE.

STANDARD[®] IGNITION COMPONENTS

Standard[®] Pro Training Tech Tip

As experienced ASE-certified automotive technicians themselves, Standard[®] Pro Trainers are experts in Ignition System technology.

Here's what they say to look out for during an ignition coil install.



When replacing a faulty ignition coil, make sure that the driver in the PCM has not been damaged by a shorted coil - This is especially prevalent in Ford 2-wire coils



If an intake plenum needs to be removed to access an ignition coil, do your customer a favor and replace all the ignition coils on that bank at the same time



When replacing an ignition coil, replace all the secondary ignition components (plugs, boots, wires) as well



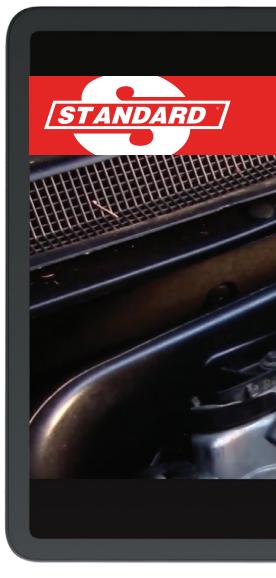
STANDARD® IGNITION COMPONENTS

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.





Available Classes

Diagnosing Ignition Problems

Automotive Ignition Fundamentals

Misfire Diagnostics 101

Misfire Diagnostics 102





Available Classes

Misfire Diagnosis

Lab Scope Power User

Ignition System and Cam/Crank **Synchronization**

Powertrain Electronics

Visit StandardBrandTraining.com



For information on diagnosing and replacing Ignition Coils, search" coils" on the StandardBrand YouTube channel

