VARIABLE VALVE TIMING (VVT)

SOLENOIDS AND SPROCKETS







Blue Streak® joins the Standard® VVT Lineup

LIMITED LIFETIME WARRANTY

BLUE STREAK® JOINS THE STANDARD® VVT LINEUP

Introducing Blue Streak® VVT Components

Blue Streak® variable valve timing solenoids and sprockets feature design improvements over the OE, delivering a line of high-quality, long-lasting VVT components manufactured for superior performance under real-world conditions.





Blue Streak® Limited Lifetime Warranty

We are so confident in the durability of our Blue Streak® VVT components, that we've backed every one with our Limited Lifetime Warranty.

Aftermarket-Leading VVT Coverage

Blue Streak®, Standard® and Intermotor® lines team up to offer more than 500 premium VVT components covering more than 95% of all domestic and import applications. That's top in the industry!





500+ SKUs

The most comprehensive VVT line in the aftermarket

PREMIUM QUALITY

Many of our VVTs include value-adds such as gaskets for a trouble-free install

100% TESTED

Our extreme testing regimen ensures precise performance and longevity

HIGH TECH

VVT is an extremely high tech category so premium quality is essential

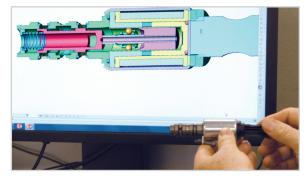
SMP® DELIVERS ADVANCED, BASIC MANUFACTURING

SMP® Poland: Engineering, Design, Basic Manufacturing and Testing

Our IATF 16949-certified facility spans 108,000 sq. ft. and employs more than 750 employees – including 60+ resident engineers. SMP® Poland introduces 110+ new products annually and serves as a basic engineering center for our most advanced Blue Streak® VVT components.











A Real Commitment to Design and Testing for Real-World Conditions

We supply professional techs with the premium quality that is critical for this high-tech category.

SMP-manufactured VVT solenoids & sprockets undergo extensive measurement and life testing plus a full spectrum of environmental analysis that includes thermal shock, thermal cycling, salt spray, vibration, storage tests, and more.

This unwavering commitment to quality ensures that every Standard® VVT component measures up to real-world conditions.



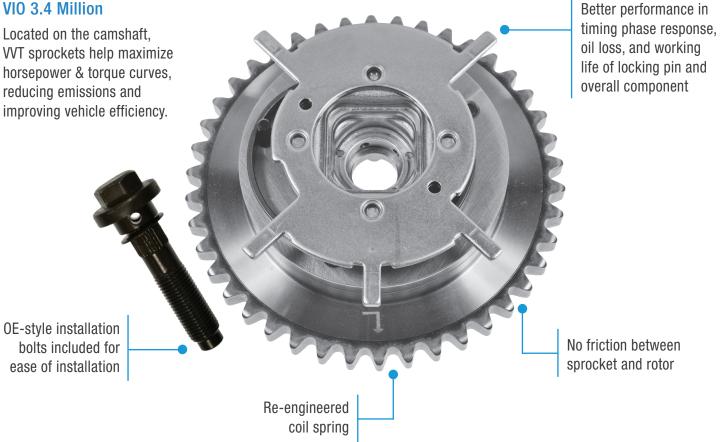
PRECISE ATTENTION TO THE DETAILS

Blue Streak® Premium Quality VVT Sprockets (Cam Phasers)

Blue Streak® VVT sprockets meet tight dimensional tolerances to improve internal sealing, minimize oil drain back, reduce frequency of PCM correction and deliver optimal performance.

VVT500





Tech Tip: Standard's Innovative Cam Gear Wedge Tool



Our custom-designed tool locks the sprocket in place preventing the chain tensioner from collapsing during your VVT repairs. Tip: Do not remove the wedge tool while the cam gear is out. If the tool comes out, the timing cover will need to be removed and the engine will need to be re-timed.

BLUE STREAK® TAKES ON THE COMPETITION

Blue Streak® Design Improvements Over the Original

Our all-metal, integrated machined design eliminates paddle inserts while providing a larger contact area. This means improved overall wear as well as proper lubrication and gap. Less friction means our sprocket responds fast at lower pressure delivering optimal performance.

0E



Original – Metal Paddles

- Inserted metal paddles produce iron shavings
- Paddles wear rapidly
- Impedes performance
- Shortens service life

Blue Streak®



Best – Integrated Design

- Larger contact area
- No paddle to wear out
- Fast response times
- Improved performance
- Longer service life

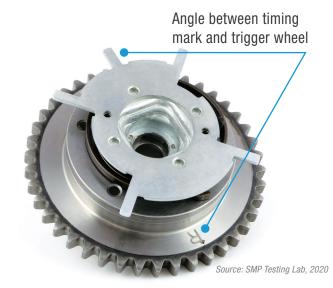
Competitor D



Inferior - Plastic Paddles

- Chamfered slot and plastic paddle inserts
- Components wear easily
- May not hold up under normal operation

Trigger Wheel Angle Comparison



Manufacturer	Angle	Difference
OE (Ford) 3R2Z6A257DA	2.16°	_
Blue Streak® VVT500	2.08°	0.08°
Competitor D "Improved"	1.97°	(0.19°)

The Blue Streak® trigger wheel angle closely matches the OE, ensuring proper alignment and operation. Competitor D's "improved" sprocket is significantly smaller which may lead to improper alignment, signal deviation and faulty operation.

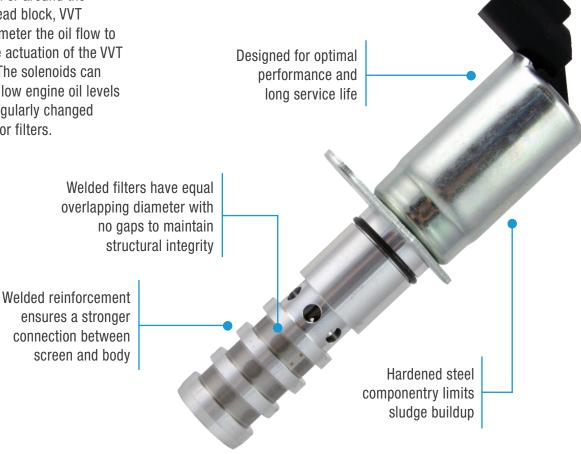
THE NEW BENCHMARK FOR VVT SOLENOIDS

Blue Streak® Premium Quality VVT Solenoids

As a high-quality replacement, Blue Streak® VVT solenoids feature hard anodized components to ensure proper performance, precise operation, and long service life.

VVT102 VIO 2.5 Million

Located on or around the cylinder head block, VVT solenoids meter the oil flow to control the actuation of the VVT sprocket. The solenoids can fail due to low engine oil levels and/or irregularly changed engine oil or filters.







Commitment to Continuous Improvement

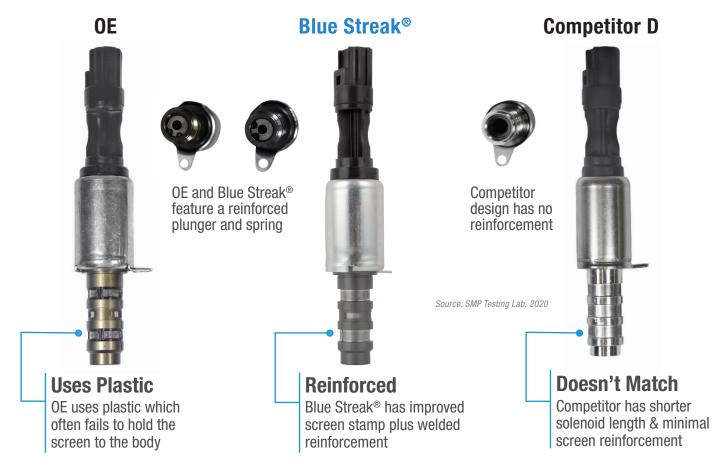
Our dedication to continuous improvement practices in design, engineering and manufacturing allows us to make enhancements to the OE design, while maintaining complete control over each Blue Streak® VVT component.

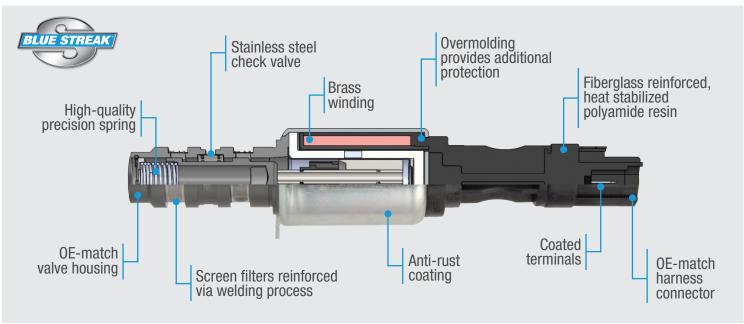
THE BLUE STREAK® VVT ADVANTAGE



Blue Streak® Engineers Have Improved on the Original

Our improved screen stamp and welded reinforcement are the result of the Blue Streak® commitment to high-quality design and rigorous testing.





EVER-EXPANDING VVT COVERAGE

The Best Keeps Getting Better

The Blue Streak®, Standard®, and Intermotor® lines continue to expand coverage for this important category. Here's a small sample of our VVT solenoid and sprocket coverage.





VVT102 GM (2012-02)



VVT144 Honda (2009-02)





VVT190 OGM/GMC (2017-04)





VVT198 GM (2017-06)





VVT199 GM (2017-06)





VVT258 Chrysler/Dodge, Jeep, Dodge Trucks (2020-09)



VVT500 Ford/Lincoln Cars & Trucks (2014-04)





VVT529 Toyota (2008-98)









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