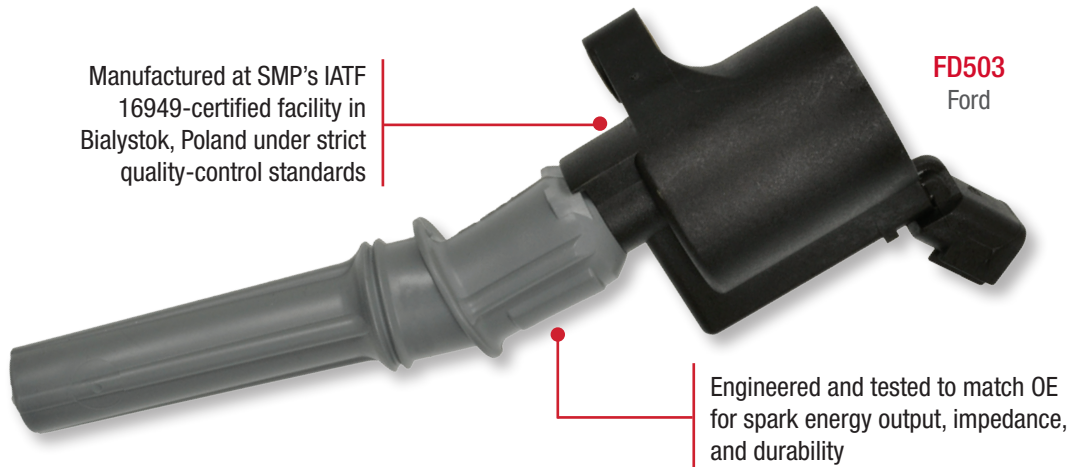


## Coil-on-Plug (COP) Breakdown

A coil-on-plug is designed to perform the functions of the ignition coil (creating the spark energy) and the spark plug wire set (containing and delivering the high voltage energy to the spark plug). To ensure proper function, Standard® and Intermotor® Coil-on-Plug Assemblies feature premium-quality components.

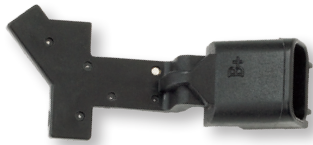


Manufactured at SMP's IATF 16949-certified facility in Bialystok, Poland under strict quality-control standards

**FD503**  
Ford

Engineered and tested to match OE for spark energy output, impedance, and durability

## A Closer Look at Our Coil-on-Plug Components



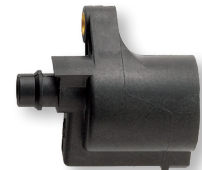
**Coil Connector**

Designed using advanced thermoplastics to ensure proper connection and resist fractures caused by heat and thermal cycling



**Boot & Spring Assembly**

High-temp boot prevents high-voltage leaks, while stainless steel spring with internal ferrite noise suppressor prevents radio frequency interference (RFI)



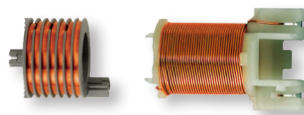
**Coil Housing**

High-impact material bonds extremely well to epoxy to ensure longer life in all operating conditions



**Core**

Internal neodymium permanent magnet surrounded by grain-oriented magnetic-laminated steel maximizes high-voltage output at all speeds



**Primary & Secondary Bobbins with Winding**

Primary (25 gauge) and Secondary (43 gauge) copper wire ensure high-voltage availability for peak performance while reinforced bobbins prevent voltage flashover for extended service life



**Isolator**

Manufactured using high-voltage resistant thermoplastics to prevent premature coil failure