

News Release



BorgWarner Provides Ultimate Heavy-Duty Starter Protection with Smart IMS and Over Crank Prevention Technology

- *Delco Remy® 38MT+™ and 39MT™ heavy duty starters feature newly combined starter protection technologies*
- *Newly combined technologies now available to order from the factory with a new truck purchase*
- *Enhanced original-equipment technology protects against numerous failure modes in the toughest environmental conditions, helping fleet owners to reduce vehicle downtime and optimize the life of the starter*

Auburn Hills, Michigan, February 20, 2020 – BorgWarner announces the first applications of its combined Smart IMS (integrated magnetic switch) plus integrated over crank protection (IOCP) on its Delco Remy® 38MT+™ and 39MT™ heavy duty gear reduction starters, used for both on- and off-highway commercial vehicles. This new and efficient combination for the original equipment commercial vehicle market reduces and prevents starter-related downtime for fleet owners and operators. The 38MT+ and 39MT Smart Starters with Smart IMS / IOCP will soon be available as an option from the factory on new truck orders from a major commercial vehicle manufacturer.

“We are committed to finding solutions that are effective, drive the industry forward and make our customers’ lives easier through gaining a deeper understanding of the challenges facing our customers world-wide,” said Randy Andis, Director, Commercial Vehicle, PowerDrive Systems, BorgWarner Inc. “Downtime is a major concern for fleet owners. The pairing of our Smart IMS and over crank protection technology gives us the ability to address this industry-wide problem by reducing starter-related maintenance and protecting the starter from an early life failure, enhancing the durability and reliability of our starters, and ultimately maximizing uptime.”

BorgWarner's IOCP – a built-in circuit breaker that protects the starter from thermal damage by monitoring the temperature and automatically resetting at a safe operating temperature as needed, while also eliminating wiring harnesses – has been utilized by customers for many years. The Smart IMS, introduced to the aftermarket in 2017, ensures the solenoid receives the maximum available voltage by reducing voltage drop, and features six electronic functions that protect the starter from potential damage caused by operator or system errors. Pairing these two technologies results in the highest level of starter protection available to the market. The dual technologies deliver extra layers of protection across a wide range of starting conditions by reducing damage due to excessive cranking, low battery voltage cranking issues, high circuit control resistance issues, starter click-no-crank, solenoid prolonged power, overruns, pinion and ring gear teeth damage, and more. Additionally, the technology encompasses driver/system protection features, such as time-limited crank, running engine lockout and auto disengage at engine start.

Beyond preventing early life failures with improvements to its starter protection capabilities, BorgWarner's newest starters are covered by a three-year warranty coverage, an improvement over the standard vehicle warranty (up to two years) that most starters in the commercial vehicle industry carry. While suited for new vehicles, the technology can be retrofitted; the combined solution will be available in the aftermarket in Q2 2020.

At the time of ordering, customers purchasing a new truck from the major commercial vehicle manufacturer that BorgWarner has contracted with, have the option to choose the standard 38MT+ or 39MT or opt for the models with the enhanced starter protection: the 38MT+ or 39MT Smart Starter with Smart IMS and IOCP.

About BorgWarner

BorgWarner Inc. (NYSE: BWA) is a global product leader in clean and efficient technology solutions for combustion, hybrid and electric vehicles. With manufacturing and technical facilities in 67 locations in 19 countries, the company employs approximately 29,000 worldwide. For more information, please visit borgwarner.com.

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