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Why Torque is Critical

KENOSHA, Wis. – April 27, 2010 – Why is torque critical? A properly torqued fastener will remain tight during all loads and vibration. A poorly torqued fastener can fail quickly from fatigue creating a potentially unsafe situation. Knowing how much torque to use and using the proper torque tools is critical to making repairs efficiently and, most importantly, safely.

Original Equipment Manufacturers (OEM) specify the amount of torque that is applied to fasteners to ensure they maintain the proper load within operating conditions. A fastener that is stretched or preloaded to its designed level of residual stress will resist failure for the given cycle load and the maximum number of fatigue cycles. It will also provide maximum resistance to loosening from vibration.

A fastener installed in an under-stressed condition will loosen under load and ultimately fail by loss of clamping force. A fastener that is over tightened will fail during installation or fail prematurely during under cycle stress.

“Snap-on can help answer torque questions and provide professional technicians the largest selection of high-quality torque tools in the market today,” said Mark Knapp, product manager for Snap-on. “From a traditional click-type wrench to cutting-edge technology like the Techangle® wrench, Snap-on offers a wide variety of products, sizes and styles to fill every need. Our torque products have earned a reputation for superior performance and reliability in shops and factories worldwide.”

Among the torque tools Snap-on manufactures are: an electronic Digital Torque Tester™, electronic Techangle® torque wrenches, electronic Techwrench® torque wrenches and electronic dial type torque wrenches. Snap-on also produces mechanical QD Series click-type torque instruments, TQ Series adjustable click-type torque wrenches, OC Series preset click-type torque wrenches and dial-type torque wrenches.

Customers can find out more about Snap-on’s torque tools by contacting their participating Snap-on franchisee, visiting www.snapon.com or by calling toll free 877-SNAPON-2 (877-762-7662).

About Snap-on Tools

Snap-on Tools is a subsidiary of Snap-on Incorporated, a leading global innovator, manufacturer and marketer of tools, diagnostics and equipment solutions for professional users. Product lines include hand and power tools, tool storage, diagnostics software, information and management systems, shop equipment and other solutions which are used by technicians and professionals at vehicle dealerships and repair centers and in the marine, powersports and aviation industries. Snap-on Tools is one of the largest non-food franchise companies in the world, selling its products through more than 4,500 franchisees worldwide and through company-direct sales and over the Internet. Snap-on Incorporated, which was founded in 1920, is a \$2.4 billion, S&P 500 company located in Kenosha, Wis. with operations throughout the world. For additional information, visit www.snapon.com.

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