

# PRECISION CALIBRATION PROGRAMS FOR YOUR TORQUE TOOLS

From On-Demand to Managed Asset Exchange






## Reduce Your Risk with Improved Compliance and Analytics

As a provider of automotive services, you understand it is critical to follow proper guidelines on torque during mechanical work such as wheel installations, engine or transmission repair, or even installing oil drain plugs. Relying on your technicians' best guesses on correct torque (especially if they are less experienced) can expose you to significant liability. Properly calibrated torque wrenches can reduce that liability and increase your customers' confidence in the quality of your services.

But how do you know if the torque wrenches in your shop are still in calibration? The more frequently the wrenches are used, the more frequently calibration is needed. Simply sending torque wrenches in for calibration once a year, especially if you have a busy shop, may not provide the assurance of compliance your business and customers rely on.

You need a solution that ensures your technicians have a supply of calibrated torque wrenches available whenever they are needed – and that your technicians don't inadvertently use a torque wrench that's past its calibration due date. Otherwise, you could be facing a situation where every vehicle that torque wrench touched is a potential liability.

With over 70 years of calibration experience, Tektronix has a range of solutions to address these issues:

PROGRAM TYPES		BENEFITS
<p><b>Calibrate and Return</b> - Ship wrenches to Tektronix for calibration as needed.</p>		<ul style="list-style-type: none"> <li>• Start immediately</li> <li>• Calibration services provided on-demand</li> <li>• Perfect for smaller operations</li> </ul>
<p><b>Asset Exchange</b> – Calibrated wrenches are shipped to your site with with an option to exchange with wrenches needing calibration at delivery time</p>		<ul style="list-style-type: none"> <li>• Scheduled periodic delivery ensures calibration compliance</li> <li>• Best for larger operations with critical compliance needs</li> <li>• On-site exchange greatly reduces inventory and risk of technicians using out-of-calibration wrenches</li> </ul>
<p><b>Asset Analytics</b> – Data mining and analysis of tool failures and tolerance issues</p>		<ul style="list-style-type: none"> <li>• Identify most reliable and cost-effective torque wrenches by brand and type</li> <li>• Develop customized reports based on your specific needs</li> </ul>

# Tektronix is Your Partner in Precision Torque Wrench Calibration

Tektronix takes torque wrench calibration seriously. Our automated high-volume, high-precision torque calibration stations have a measurement accuracy of 0.25% and our laboratories are accredited to the highest level of compliance with industry standards such as ISO 9001:2015 and ISO/IEC 17025: 2005. And our torque testing processes are some of the most rigorous in the industry.

## Tektronix Torque Wrench Test Process

1. Exercise the torque wrench three times at full rated capacity of the wrench in the clockwise (CW) direction at the start of testing.
2. Set tester to 20% of the rated wrench capacity and perform test six times, documenting the last three times.
3. Set tester to 60% of the rated wrench capacity and perform test six times, documenting the last three times.
4. Set tester to 100% of the rated wrench capacity and perform test six times, documenting the last three times.
5. If the wrench is capable of Counter-Clockwise (CCW) operation, repeat all steps in the CCW direction

By investing in automated, state-of-the-art calibration test equipment, Tektronix has reduced opportunities for human measurement error, while increasing our ability to rapidly calibrate your torque wrenches to the latest standards.



Fig 1 Tektronix Torque Calibration Station

## Getting Started with the Tektronix Asset Exchange Program

