



**Sturtevant Richmond** Presents:

# Error Proof Your Error Proofing With A Complete Torque Verification Program

Quality programs and processes are all about eliminating variables and replacing them with accurate repeatability. But what if you are repeating the same mistake and don't know it? That can happen if you don't know the torque wrench being used is out of calibration.

You can't tell if a wrench is in or out of spec by just looking at it, can you? Even the world's best torque wrenches are subject to being dropped, used over maximum capacity, and other tool tortures. The result is a tool that was perfectly calibrated is no longer accurate.

Would you prefer to discover that the wrench is out of calibration before or after the customer does?

## How can you prevent this avoidable situation?

A once a year calibration program for wrenches whether they need it or not may follow a standard but doesn't follow fiscal and common sense.

Torque Wrench Verification Programs not only ensures work is done to specification, but there are other unseen advantages. You can identify areas or workers where wrenches need more frequent calibration. You can also identify wrench brands that stay in calibration longer, needing less repair. Save money and headaches.



**Sturtevant  
Richmont**<sup>®</sup>  
Torque Measurement Systems

LIT-073 8/12/13

*Creating and Running a Torque Wrench Verification Program Is Easy.*

# Benefitting From It Is Even Easier!

**A reliable Torque Wrench Verification Program needs the right equipment. Tools that:**

- Tests all types of torque wrenches from flat beam to digital and clicker type to screwdrivers, dial wrenches, cam-over wrenches and power tools.
- Provide simplicity of operation.
- Has LED indicator lights to provide visual feedback to the operator making it easier for the worker to do their job well.
- Provides visual overtorque warning on display as well as LED indicator.
- Has an accuracy of +/- .5% of indicated value from 10% to 100% of rated capacity, which meets or exceeds requirements of ASME B107.300 2010.
- Offers operation in English, Standard International, and Metric units of measure.
- Operates in 4 modes: Track, Peak, Initial Peak, and Power Tool for versatility.
- Date and time stamps each test and provides a tracking number.
- Stores complete historical test data.
- LED continually flashes overload until the unit is reset.
- Records over capacity incidents even if memory is turned off.
- Has an RS232 port for interface with computer, software, and printer to create historical reports that trace performance over time.
- Has a display that is easy to read in any lighting condition.
- Comes from and is calibrated by an ISO 17025 Accredited Lab and also a Reference Lab with A2LA providing certification.
- Is highly durable with consistent testing for at least 50,000 cycles in both directions at 100% of capacity and still remains in spec.
- Is inexpensive and provides ROI quickly. (Based on Number of Torque Wrenches Used)
- Operates on electrical current world wide
- Battery power provides portability.
- Is ergonomically designed for operator safety.
- Is ROHS compliant.

## Where can you find tools like this?

Look no further than the next page:



**Torq-Tronics 2<sup>®</sup>**  
Digital Torque Tester



**VeriTorg<sup>®</sup>**  
Digital Torque Tester

# 9

## Do you know the 9 most common torque verification mistakes and how to prevent them?

We have found that even some of the most experienced people make some of the fundamental mistakes. To learn more about this topic, visit [www.srtorque.com/testing/mistakes](http://www.srtorque.com/testing/mistakes).



**Sturtevant  
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Torque Measurement Systems

**Sturtevant Richmond**

Direct: 1 847/455-8677

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[www.srtorque.com](http://www.srtorque.com)



# Torq-Tronics 2<sup>®</sup>

## Digital Torque Tester

Sturtevant Richmond announces the next level of torque testers designed to help you improve quality by eliminating variables in your torque tools. The new Torq-Tronics2<sup>®</sup> is engineered for greater accuracy and durability and meets or exceeds the following standards:

- ASME B107.300 - 2010 Electronic Tester, Hand Torque Tools
- ISO 5393 Rotary tools for threaded fasteners- Performance test methods.
- ASME B107.4M Driving and Spindle Ends for Portable Hand, Impact, Air, and Electric Tools (Percussion Tools Excluded).
- ISO 1773 Assembly Tools for Bolts and Screws – Driving Squares for Power Socket Wrenches and Hand Socket Wrenches.
- ISO 1774-2 Assembly Tools for Bolts and Screws – Driving Squares for power socket tools

## Applications

The new Torq-Tronics 2<sup>®</sup> line of Digital Torque Testers is ideal when:

- Clicker or camover type torque wrenches, or torque screwdrivers, need to be calibrated.
- An inexpensive and versatile tester for intermediate checks of torque tools is needed.
- Non-impacting power tools need to be tested.
- Simplicity and speed of operation are needed.

This is an excellent tester for intermediate checks (simple checks between calibrations) of all types of tools. It has the accuracy for calibration of clicker- and camover-type torque wrenches and clutch-type torque screwdrivers. A special power tool mode is standard.

**Torq-Tronics 2** error proofs your error proofing program by letting you know when the unit has been stretched to 120% or more of capacity and may no longer be in calibration.

**Torq-Tronics 2** has an LED that flashes red to alarm you to the problem. It doesn't stop until you reset the unit. The VFD tells you the unit has been stretched over capacity

**Torq-Tronics 2** captures the over capacity data even if the memory was turned off. If the memory was turned on the incident cannot be erased and the unit tells the person to "See Supervisor" until unit has been reset.

**Torq-Tronics 2** reporting identifies all tests completed between overload and reset. We have your back!



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# Lighting the Way

## Torque Verification Accuracy And Safety At A Glance With *Torq-Tronics 2*<sup>®</sup>

You can't tell if a wrench is out of calibration just by looking at it. But what about the verification and calibration tool you are using to test those torque wrenches? What if that was out of calibration? Like a torque wrench, a verification/calibration unit can be taken out of spec in a few seconds by abuse, mis-use, or being placed in an over capacity/overload situation.

When a *Torq-Tronics 2*<sup>®</sup> test/calibration unit is placed in an over-torque position of more than 120% of capacity, the overtorque warning LED remains lit. That LED tells everyone this unit should be verified and or recalibrated before it is used again.

We use a torque wrench to eliminate variables and improve quality. We test and calibrate those torque wrenches to ensure we are repeating the proper torque applications.

Over torquing a wrench can damage that wrench and take it out of calibration. Overtorquing a torque tester or torque calibration unit can damage the tester and take it out of calibration. It can also damage the circuitry in the unit as well possibly damage the transducer. When torque testing with an out of calibration tester there is no up side.

*Torq-Tronics 2*<sup>®</sup> gives you everything you need to gain control and effectively run a torque verification program.

*Torq-Tronics 2*<sup>®</sup> tells you and your workers when it has been stretched to 120% or more of rated capacity. How much time and money can be saved if you know your torque tester may need to be tested?

*Torq-Tronics 2*<sup>®</sup> provides complete traceability with record keeping. Even if the memory is off, TT2 records overload information and marks all the records following the overload with an OVL. You know exactly what happened and when.

*Torq-Tronics 2*<sup>®</sup> helps guide your employees to do the right thing. If someone tries to erase the memory containing and overload indicator, the display says "See Supervisor" We have your back even if you are not looking.



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## Torq-Tronics 2® Features and Characteristics

- Accuracy of +/- .5% of Indicated Value from 10% to 100% of rated capacity. Meets or exceeds requirements of ASME B107.300-2010.
- Tests in both clockwise and counterclockwise directions.
- Four modes of operation - Track, Peak, Initial Peak and Power Tool - provide excellent versatility.
- Units of measure include English, Standard International and metric.
- Units of 300 inch-pound (34 Nm) capacity and below are optimized for bench mounting; larger units may be mounted vertically or horizontally providing better safety and efficiency.
- With only 8 buttons Torq-Tronics2® is amazingly simple to operate!
- Memory stores up to 999 records that can be downloaded to hyperterminal/terminal program to create testing reports and data storage.
- Four line vacuum florescent display (VFD) is easy to read.
- Red/Green LED indicates whether a measurement is within the target torque value.
- Overload (120% of capacity) warning is built in and all torque readings are recorded.
- Overload (120% of capacity) If unit has been overloaded and turned off, the VFD brings up the incident that caused TT2 to be in an overload situation.
- Overload (120% of capacity) warning displayed on the VFD. All records post overload are noted with OVL in documentation until the unit is reset.
- Overload (120% of capacity) record data stored in two separate places and cannot be erased.
- Overload (120% of capacity) record data stored even if unit memory is turned off.
- Includes FREE certificate of calibration from our ISO/IEC 17025 Accredited Calibration Laboratory!
- Includes 120-240 VAC to 6 VDC screw on power supply for security during power tool testing.
- Runs on four AA NiMH rechargeable batteries. Batteries sold separately. Quick charge unit is available.
- Includes a free blow molded plastic box for storage and transit.
- Power Tool mode has ten filters and will accurately test all clutch type and pulse tools.



Your error proofing program is not complete even if you test your torque wrenches every shift. If you aren't testing your tester, you could be perpetually making errors instead of preventing them. Nothing is worse than a tester out of calibration.

Torq-Tronics 2 tells you when it was last calibrated and when it is due next. More importantly it immediately tells everyone if it has been stretched to 120% or more of capacity. OV 120% capacity continually displays on VFD top line until reset. The system cannot be erased or circumvented. We have truly error proofed your error proofing.

Think about how Torq-Tronics 2 can help your torque control program. Know of another tester that does this?

Part No.	Model	Description	Drive
10691	Torq-Tronics 2 10l	Digital Torque Tester 1 Nm / 10 in.lb	¼" M Hex
10692	Torq-Tronics 2 50l	Digital Torque Tester 6 Nm / 50 in.lb	¼" M Hex
10693	Torq-Tronics 2 100l	Digital Torque Tester 12 Nm / 100 in.lb	3/8" M H
10694	Torq-Tronics 2 300l	Digital Torque Tester 34 Nm / 300 in.lb	3/8" M H
10695	Torq-Tronics 2 80	Digital Torque Tester 109Nm / 80 ft.lb	½" F Sq.
10696	Torq-Tronics 2 150	Digital Torque Tester 201 Nm / 150 ft.lb	½" F Sq.
10697	Torq-Tronics 2 250	Digital Torque Tester 339 Nm / 250 ft.lb	¾" F Sq.
10698	Torq-Tronics 2 600	Digital Torque Tester 814 Nm / 600 ft.lb	¾" F Sq.



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## Features

- Three modes of operation: Track, Peak, and Clicker (Initial Peak).
- Clockwise and counter-clockwise test capability.
- +/- 1% Indicated Value Accuracy from 10% to 100% of capacity.
- Units of measure include English, Standard International, and metric.
- Integral "L" bracket for horizontal or vertical mounting.
- Electronics Module rotates in two planes.
- Large LCD displays settings and values.
- Serial port for immediate data transfer.
- Four button control panel.
- Meets or exceeds ASME B 107.29M.
- FREE ISO/IEC 17025 long-form certification!
- Made in USA by ISO 9001 manufacturer!
- Custom plastic Carrying/Storage Case and Power Supply included.

## Benefits

- Allows daily checking of tools and instant resolution in event of a question.
- Savings in calibration fees can pay for tester in less than a year.
- Reduces downtime and saves money by eliminating unneeded calibrations.
- Perfect for testing clicker and camover torque wrenches and torque screwdrivers.
- Serial output for use with terminal program or serial printer.
- Large LCD and rotating Electronics Module make it easy to read regardless of wrench length or technician height.
- Multiple Units of Measure to accommodate a wide range of tools.
- Very easily programmed via the four buttons on the Electronics Module.

### All VeriTorq® Digital Torque Testers Include:

- 120 VAC or 240 VAC to 6 VDC Converter
- Custom Plastic Carrying/ Shipping Case
- Serial Cable
- Quick Start Instructions
- 1-Year Warranty on Electronics
- Includes FREE certification from our ISO/IEC 17025 Accredited calibration laboratory.



## VeriTorq® Digital Torque Tester

Part No.	Model	Drive Size
10362	VeriTorq® 1 Nm/10 in.lbs.- 120 VAC	.25" Male Hex
10363	VeriTorq® 6 Nm/50 in.lbs.- 120 VAC	.25" Male Hex
10364	VeriTorq® 12 Nm/100 in.lbs.- 120 VAC	.375" Male Hex
10365	VeriTorq® 34 Nm/300 in.lbs.- 120 VAC	.375" Male Hex
10366	VeriTorq® 109 Nm/80 ft.lbs.- 120 VAC	.5" Female Square*
10367	VeriTorq® 201 Nm/150 ft.lbs.- 120 VAC	.5" Female Square*
10368	VeriTorq® 339 Nm/250 ft.lbs.- 120 VAC	.5" Female Square*
10369	VeriTorq® 814 Nm/600 ft.lbs.- 120 VAC	.75" Female Square**
10371	VeriTorq® 1 Nm/10 in.lbs.- 240 VAC	.25" Male Hex
10372	VeriTorq® 6 Nm/50 in.lbs.- 240 VAC	.25" Male Hex
10373	VeriTorq® 12 Nm/100 in.lbs.- 240 VAC	.375" Male Hex
10374	VeriTorq® 34 Nm/300 in.lbs.- 240 VAC	.375" Male Hex
10375	VeriTorq® 109 Nm/80 ft.lbs.- 240 VAC	.5" Female Square*
10376	VeriTorq® 201 Nm/150 ft.lbs.- 240 VAC	.5" Female Square*
10377	VeriTorq® 339 Nm/250 ft.lbs.- 240 VAC	.5" Female Square*
10378	VeriTorq® 814 Nm/600 ft.lbs.- 240 VAC	.75" Female Square**

\* Includes .5" M Square to .375" F Square Adapter.

\*\* Includes .75" M Square to .5" F Square and .5" M Square to .375" F Square adapters.



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