**STANLEY J6476**

# STANLEY Proto J6476 1/2 Inch Drive Electronic Torque Tester Instruction Manual

Model: J6476

## Introduction

This manual provides detailed instructions for the proper use, setup, operation, and maintenance of your STANLEY Proto J6476 1/2 Inch Drive Electronic Torque Tester. This device is designed for precise testing and calibration of various torque wrenches, ensuring accuracy in both clockwise and counter-clockwise applications. Please read this manual thoroughly before operating the tester to ensure safe and effective use.

## Product Overview and Key Features

The Proto J6476 Electronic Torque Tester is an essential tool for verifying the accuracy of torque wrenches. Its robust design and advanced features make it suitable for a wide range of industrial and scientific applications.




**Figure 1:** Proto J6476 1/2 Inch Drive Electronic Torque Tester. This image displays the Proto J6476 Electronic Torque Tester. It features a digital display showing '00.00' and buttons labeled 'Mode', 'Clear Hold-Power', 'unit', '+', and '-'. The display also indicates units 'CCW Ft-lb In-lb Nm'. The tester is mounted on a red base with a 1/2 inch square drive input.

## Key Features:

- Designed for testing all types of torque wrenches, suitable for full-scale calibration or quick Pass/Fail checks.
- Achieves an accuracy of +/- 1% of the indicated value in both clockwise and counter-clockwise directions.
- Offers a broad accuracy range, extending from 10% to 100% of its full scale.
- Supports three units of measure: foot-pounds (ft-lb), inch-pounds (in-lb), and Newton-meters (Nm).
- Features three distinct operating modes: Track Mode, Peak Hold, and First Peak (specifically for click-style torque wrenches).
- Equipped with a fast sampling rate to ensure high accuracy during torque applications.
- Includes a male square drive and a female-to-female square drive adapter for versatile use.
- Powered by a standard 9V battery, providing approximately 50 hours of run time.
- Supplied with N.I.S.T. (National Institute of Standards and Technology) traceable certification.

- Meets or exceeds requirements set forth in ASME B107.29.

## Setup Instructions

1. **Unpacking:** Carefully remove the torque tester and all accessories from its packaging. Verify that all components are present, including the female-to-female square drive adapter.
2. **Battery Installation:** The unit is powered by a standard 9V battery. Locate the battery compartment, typically on the rear or underside of the unit. Open the compartment, insert a fresh 9V battery, ensuring correct polarity, and close the compartment securely.
3. **Mounting (Optional):** For stable and repeatable measurements, consider mounting the tester. The unit can be used with an optional all-steel stand (Proto J6470S) or secured to a workbench using appropriate fasteners through the mounting holes on its base.
4. **Adapter Connection:** If your torque wrench requires a female input, attach the provided female-to-female square drive adapter to the male square drive of the tester. Ensure it is securely seated.
5. **Power On:** Press and hold the "Clear Hold-Power" button (refer to Figure 1) to power on the device. The digital display should illuminate.

## Operating Instructions

The Proto J6476 offers multiple measurement units and operating modes to suit various testing requirements.

### 1. Unit Selection:

- With the tester powered on, press the "unit" button (refer to Figure 1) to cycle through the available measurement units: ft-lb (foot-pounds), in-lb (inch-pounds), and Nm (Newton-meters). Select the desired unit for your application.

### 2. Mode Selection:

Press the "Mode" button (refer to Figure 1) to switch between the three operating modes:

- **Track Mode:** Displays the live torque value as it is applied. This mode is useful for observing torque changes in real-time.
- **Peak Hold Mode:** Captures and displays the maximum torque value achieved during an application. The display will hold this peak value until reset or a higher peak is detected.
- **First Peak Mode:** Designed specifically for click-style torque wrenches. This mode captures the first significant peak in torque, which typically corresponds to the "click" point of the wrench.

### 3. Performing a Torque Test:

1. Ensure the torque tester is securely mounted or held stable.
2. Select the appropriate unit and operating mode.
3. Attach the torque wrench to be tested to the square drive of the tester (using the adapter if necessary).
4. Apply torque to the wrench smoothly and steadily. Observe the reading on the digital display.
5. For Peak Hold or First Peak modes, the maximum value will be displayed. For Track Mode, the live value will be shown.
6. After each test, press the "Clear Hold-Power" button briefly to clear the previous reading and prepare for the next test (if in Peak Hold or First Peak mode).

### 4. Power Off:

- To power off the unit, press and hold the "Clear Hold-Power" button until the display turns off.

## Maintenance

- **Cleaning:** Keep the torque tester clean and free from dirt, dust, and moisture. Wipe the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** When the battery indicator appears on the display or the unit fails to power on, replace the 9V battery as described in the Setup section. Always use a fresh, high-quality 9V battery.
- **Storage:** Store the torque tester in a dry, temperate environment, away from direct sunlight and extreme temperatures.
- **Calibration:** The Proto J6476 is supplied with N.I.S.T. traceable certification, indicating its initial calibration accuracy. For continued accuracy, periodic re-calibration by a qualified service center is recommended, especially after heavy use or if accuracy is suspected to have degraded. Refer to the N.I.S.T. certification document for recommended calibration intervals.
- **Inspection:** Regularly inspect the square drive and adapter for any signs of wear or damage. Replace worn components to maintain accuracy and safety.

## Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Unit does not power on. | Dead or improperly installed 9V battery. | Replace the 9V battery, ensuring correct polarity. |
| Inaccurate readings. | • Incorrect unit selected.<br>• Tester requires re-calibration.<br>• Damaged square drive or adapter. | • Verify the correct measurement unit (ft-lb, in-lb, Nm) is selected.<br>• Contact a qualified service center for re-calibration.<br>• Inspect and replace any damaged components. |
| Display shows erratic values. | Low battery or electrical interference. | Replace the battery. Ensure the tester is not near strong electromagnetic fields. |
| Buttons are unresponsive. | Unit frozen or low battery. | Try powering off and on. Replace battery if issue persists. |

## Technical Specifications

| | |
|---|---|
| **Model Number** | J6476 |
| **Drive Size** | 1/2 Inch Square Drive |
| **Torque Range** | 25-250 ft-lbs |
| **Accuracy** | +/- 1% of indicated value (clockwise and counter-clockwise) |
| **Accuracy Range** | 10% to 100% of full scale |
| **Units of Measure** | ft-lb, in-lb, Nm |
| **Operating Modes** | Track Mode, Peak Hold, First Peak |
| **Power Source** | 1 x 9V Battery |
| **Battery Life** | Up to 50 hours (approximate) |
| **Certification** | N.I.S.T. Traceable, Meets/Exceeds ASME B107.29 |
| **Item Weight** | 5.8 pounds |

| | |
|---|---|
| **Product Dimensions** | 1 x 1 x 1 inches |
| **Manufacturer** | Stanley Proto |

## Warranty and Support

For information regarding warranty coverage, technical support, or service, please contact STANLEY Proto customer service.
Keep your purchase receipt and N.I.S.T. traceable certification for warranty claims.
You can find more information and contact details on the official STANLEY website:www.stanleytools.com


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Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

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