

**LEXIVON LX-183**

# LEXIVON Torque Wrench Instruction Manual

Model: LX-183 | 1/2-Inch Drive Click Torque Wrench

## INTRODUCTION

This instruction manual provides detailed guidance for the safe and effective use, maintenance, and troubleshooting of your LEXIVON 1/2-Inch Drive Click Torque Wrench, Model LX-183. This precision instrument is designed for accurate torque application, ensuring fasteners are tightened to their specified values, which is critical for safety and performance in automotive and other mechanical applications. Please read this manual thoroughly before operating the tool.



**Figure 1:** The LEXIVON 1/2-Inch Drive Click Torque Wrench (LX-183) shown with its durable storage case and the included calibration certificate. This image highlights the tool's professional appearance and the accessories provided for proper storage and verification of accuracy.

## Safety Information

Always observe the following safety precautions to prevent injury and damage to the tool or workpiece:

- **Eye Protection:** Always wear ANSI-approved safety goggles when using this tool.
- **Proper Use:** Use the torque wrench only for its intended purpose of tightening fasteners to a specified torque. Do not use it as a breaker bar or for loosening fasteners.
- **Tool Condition:** Inspect the tool before each use for any signs of damage, wear, or malfunction. Do not use a damaged tool.
- **Cleanliness:** Keep the tool clean and free from oil, grease, or other contaminants that could affect grip or accuracy.
- **Over-Torquing:** Never exceed the maximum torque capacity of the wrench (150 Ft-Lb / 203.5 Nm). Over-torquing can damage the fastener, the workpiece, or the wrench itself.
- **Storage:** Store the torque wrench at its lowest torque setting (10 Ft-Lb / 13.6 Nm) when not in use to relieve spring tension and maintain calibration accuracy.

- **Calibration:** This tool is a precision instrument. Avoid dropping it or subjecting it to harsh impacts, as this can affect its calibration. Regular recalibration is recommended for professional use.

## PRODUCT OVERVIEW AND COMPONENTS

The LEXIVON LX-183 torque wrench features a robust design for reliable performance. Familiarize yourself with its key components:

- **Ratchet Head:** Reversible for driving in both directions, though torque measurement is only in the clockwise direction. Made from hardened Chrome Vanadium alloy steel.
- **Torque Scale (Dual Range):** Clearly marked scales for both Foot-Pounds (Ft-Lb) and Newton Meters (Nm).
- **Adjustment Collar:** Used to set the desired torque value.
- **Knurled Handle:** Provides a non-slip, comfortable grip, reducing hand fatigue.
- **Locking Knob:** Secures the torque setting to prevent accidental changes during use.



**Figure 2:** A detailed view of the dual-range scale on the LEXIVON torque wrench. This image highlights the clear, high-contrast yellow



markings against the black background, making it easy to read and set precise torque values in both Newton Meters and Foot-Pounds.

# REINFORCED GEAR

Extra Hardening Process Increases Teeth Edges Longevity



**Figure 3:** An exploded view illustrating the reinforced gear mechanism within the ratchet head of the LEXIVON torque wrench. This design feature contributes to the tool's durability and extended lifespan by enhancing the longevity of the gear teeth.

# PATENTED INTERNAL MECHANISM



## PROPRIETARY ROTATING HANDLE

Reduces effort & prevents hand fatigue up to

# 62%

**Figure 4:** A transparent view revealing the patented internal mechanism of the LEXIVON torque wrench, specifically highlighting the proprietary rotating handle. This innovative design is engineered to reduce user effort and minimize hand fatigue by up to 62% during prolonged use.

## SETUP

1. **Unpack:** Carefully remove the torque wrench from its protective case.
2. **Initial Inspection:** Check the wrench for any visible damage from shipping. Ensure the ratchet head moves freely and the adjustment collar rotates smoothly.
3. **"Activate" Mechanism:** Before first use, or after prolonged storage, it is recommended to "activate" the internal mechanism. Set the wrench to a mid-range torque value (e.g., 75 Ft-Lb). Apply pressure to the head in the clockwise direction until you hear and feel the "click." Repeat this process 5-10 times. This helps distribute the internal lubricant and ensures the mechanism is ready for accurate operation.
4. **Cleanliness:** Wipe down the wrench with a clean, dry cloth if necessary. Ensure the scale is clear and readable.

## OPERATING INSTRUCTIONS

1. **Unlock the Handle:** Locate the locking knob at the end of the handle. Rotate it counter-clockwise to unlock the adjustment collar.
2. **Set Desired Torque:**
  - Rotate the knurled handle to align the desired major torque value (e.g., 50 Ft-Lb) with the main scale line.
  - For fine adjustments, continue rotating the handle until the desired minor increment on the thimble scale aligns with the main scale line. For example, to set 52 Ft-Lb, set to 50 Ft-Lb on the main scale, then rotate the thimble until '2' aligns with the main line.
3. **Lock the Handle:** Once the desired torque is set, rotate the locking knob clockwise to secure the adjustment collar. This prevents accidental changes during use.
4. **Attach Socket:** Select the appropriate socket for your fastener and attach it firmly to the 1/2-inch drive square on the ratchet head.
5. **Apply Torque:**
  - Place the socket onto the fastener.
  - Apply smooth, steady pressure to the handle in a clockwise direction. Do not use jerky motions or sudden force.
  - Continue applying pressure until you hear and feel a distinct "click" from the wrench. This indicates that the preset torque has been reached.
  - Immediately stop applying force once the click is felt/heard. Do not continue to tighten the fastener beyond the click.
6. **Release Pressure:** After the click, release pressure on the handle. The wrench is now ready for the next fastener or can be stored.

**Important Note:** The LEXIVON torque wrench measures torque only in the clockwise direction. While the ratchet head is reversible for loosening, do not use it to measure torque in the counter-clockwise direction.

## MAINTENANCE

- **Cleaning:** After each use, wipe the wrench clean with a dry, lint-free cloth. Do not use solvents or harsh chemicals, as they may damage the finish or internal components.
- **Storage:** Always return the torque wrench to its lowest torque setting (10 Ft-Lb / 13.6 Nm) before storing it. This relieves tension on the internal spring, preserving its accuracy over time. Store the wrench in its original protective case in a dry, clean environment, away from extreme temperatures.
- **Lubrication:** The internal mechanism is factory-lubricated and generally does not require user lubrication. If the wrench feels stiff or performs inconsistently, it may require professional servicing.
- **Recalibration:** For optimal accuracy, especially in professional or critical applications, it is recommended to have your torque wrench recalibrated periodically (e.g., annually or after 5,000 cycles). The wrench ships with a calibration certificate for initial verification.







**Figure 5:** The LEXIVON torque wrench securely placed within its custom-fit, black protective case. Proper storage in this case, especially at the lowest torque setting, is crucial for maintaining the tool's calibration and protecting it from environmental damage and impacts.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Wrench does not "click" or click is faint.	<ul style="list-style-type: none"> <li>Torque setting is too low.</li> <li>Wrench not "activated" before use.</li> <li>Fastener is already tight.</li> <li>Internal mechanism requires lubrication/servicing.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure setting is above minimum (10 Ft-Lb).</li> <li>Perform "activation" steps (see Setup section).</li> <li>Ensure fastener is loose enough to require torque.</li> <li>Contact LEXIVON support for professional servicing.</li> </ul>
Inaccurate torque readings.	<ul style="list-style-type: none"> <li>Improper technique (jerky motion).</li> <li>Wrench dropped or impacted.</li> <li>Needs recalibration.</li> <li>Using extension bars not designed for torque wrenches.</li> </ul>	<ul style="list-style-type: none"> <li>Apply smooth, steady pressure.</li> <li>Avoid dropping the tool.</li> <li>Arrange for professional recalibration.</li> <li>Use appropriate extensions or adapters.</li> </ul>
Handle is stiff or difficult to adjust.	<ul style="list-style-type: none"> <li>Locking knob is not fully disengaged.</li> <li>Lack of internal lubrication.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure locking knob is rotated fully counter-clockwise.</li> <li>Perform "activation" steps. If issue persists, seek professional servicing.</li> </ul>

SPECIFICATIONS

Feature	Detail
Model Number	LX-183
Drive Size	1/2-Inch
Torque Range	10~150 Ft-Lb (Foot-Pounds) / 13.6~203.5 Nm (Newton Meters)
Accuracy	+/- 4% (Clockwise)
Material	Chrome Molybdenum Alloy Steel (Ratchet Head), Full Steel Body
Finish	Electro-Black (Proprietary Rust/Corrosion Resistance)
Item Length	17 Inches
Item Weight	3 Pounds
UPC	840025215788

WARRANTY AND SUPPORT

LEXIVON is committed to customer satisfaction. Each torque wrench undergoes rigorous testing and includes a trackable



serial number with a personal calibration chart, ensuring its precision and reliability upon purchase.

For any questions, concerns, or to inquire about professional servicing or recalibration, please refer to the contact information provided with your product packaging or visit the official LEXIVON website. Keep your calibration certificate for reference.

For additional information and product support, you may visit the LEXIVON brand store on Amazon:[LEXIVON Store](#).

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Related Documents



LX-184 USER MANUAL

[LEXIVON LX-184 1/2-Inch Drive Click Torque Wrench User Manual](#)

Comprehensive user manual for the LEXIVON LX-184 1/2-inch drive click torque wrench, covering operation, settings, specifications, maintenance, and storage. Learn how to accurately set and use your torque wrench for optimal performance.



LX-184 OPERATING INSTRUCTION

[Lexivon 1/2-Inch Drive Click Torque Wrench LX-184 Operating Instructions](#)

Comprehensive operating instructions for the Lexivon 1/2-Inch Drive Click Torque Wrench (Model LX-184), detailing its features, how to set torque in both ft-lb and Nm, wrench operation, maintenance, storage, and unit conversions.