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CLAS Equipements OM 0794

Instruction Manual for CLAS Equipements 1/4" Torque Wrench

Model: OM 0794

1. INTRODUCTION AND OVERVIEW

Thank you for choosing the CLAS Equipements 1/4" Torque Wrench, Model OM 0794. This high-precision tool is designed for accurate torque application in various mechanical tasks. It features a torque range of 5-25 Nm, adjustable in precise 0.25 Nm increments, ensuring optimal fastening for critical components. The wrench is suitable for both standard and reverse thread applications and provides a clear audible click when the desired torque setting is achieved. Proper use and maintenance will ensure long-lasting performance and accuracy.



Image: The CLAS Equipements 1/4" Torque Wrench, Model OM 0794, featuring a silver body, black handle, and blue adjustment ring. The torque scale is visible on the shaft.

2. SAFETY INSTRUCTIONS

- Always wear appropriate personal protective equipment, such as safety glasses, when using the torque wrench.
- Ensure the workpiece is securely clamped or supported before applying torque.
- Do not use the torque wrench as a standard ratchet or for loosening fasteners. It is a precision measuring tool.
- Avoid exceeding the maximum torque capacity of the wrench (25 Nm) to prevent damage to the tool or fastener.
- Do not drop the torque wrench, as this can affect its calibration and accuracy.
- Keep the torque wrench clean and free from oil, grease, or other contaminants that could affect grip or readings.
- Store the torque wrench in its protective case when not in use, and always set it to its lowest torque setting (5 Nm) before storage to relieve spring tension.

3. PRODUCT COMPONENTS

The CLAS Equipements OM 0794 torque wrench consists of the following main components:

- **Ratchet Head:** 1/4" square drive for sockets.
- **Direction Selector:** Lever on the ratchet head to switch between clockwise and counter-clockwise operation.
- **Main Scale:** Displays the primary torque setting in Newton-meters (Nm).
- **Micrometer Scale:** Fine adjustment scale for precise torque settings.
- **Adjustment Collar:** Used to rotate and set the desired torque value.
- **Locking Mechanism:** Secures the torque setting to prevent accidental changes during use.
- **Handle:** Provides grip and leverage during operation.

4. SETUP

1. **Unlock the Handle:** Locate the locking mechanism, usually a knurled ring or knob at the base of the handle. Rotate it counter-clockwise to unlock the adjustment collar.
2. **Set the Main Torque Value:** Rotate the adjustment collar until the desired main torque value (e.g., 20 Nm) aligns with the center line on the main scale.
3. **Set the Fine Torque Value:** Continue rotating the adjustment collar until the desired fine adjustment value (e.g., 0.50 Nm) on the micrometer scale aligns with the center line. The total torque setting would then be 20.50 Nm.
4. **Lock the Handle:** Rotate the locking mechanism clockwise to secure the set torque value. This prevents accidental changes during use.
5. **Attach Socket:** Select the appropriate 1/4" drive socket for your fastener and firmly attach it to the ratchet head.

5. OPERATING INSTRUCTIONS

1. **Select Direction:** Use the direction selector on the ratchet head to choose the desired tightening direction (clockwise for standard threads, counter-clockwise for reverse threads).
2. **Position the Wrench:** Place the socket onto the fastener. Ensure the wrench is held firmly by the handle, avoiding gripping the head or shaft.
3. **Apply Torque:** Apply smooth, steady pressure to the handle in the tightening direction. Do not use sudden jerks or excessive force.
4. **Listen for the Click:** Continue applying pressure until you hear and feel a distinct "click" from the wrench. This

indicates that the preset torque has been reached.

- 5. **Stop Immediately:** Once the click is heard, stop applying force immediately. Further tightening will over-torque the fastener.
- 6. **Release Pressure:** Remove the wrench from the fastener.
- 7. **Reset for Storage:** After use, unlock the handle and set the torque wrench to its lowest setting (5 Nm) before storing it in its protective case. This relieves tension on the internal spring, preserving accuracy.

6. MAINTENANCE

- **Cleaning:** Wipe the torque wrench clean with a soft, dry cloth after each use. Do not use solvents or harsh chemicals, as these can damage the finish or internal components.
- **Lubrication:** The internal mechanism is factory-lubricated and generally does not require user lubrication. If the wrench feels stiff or sticky, consult a professional for service.
- **Storage:** Store the torque wrench in its original protective case in a dry, clean environment. Always set the torque to the lowest possible setting (5 Nm) before storage to prevent fatigue of the internal spring.
- **Calibration:** Torque wrenches are precision instruments and should be recalibrated periodically (e.g., annually or after significant use) by a qualified technician to ensure continued accuracy.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Wrench does not click	Torque setting too low; Fastener already tight; Wrench malfunction.	Increase torque setting; Check fastener tightness with another method; Have wrench recalibrated or serviced.
Inaccurate torque readings	Wrench out of calibration; Improper use (e.g., gripping shaft); Damaged tool.	Recalibrate the wrench; Ensure proper grip on the handle; Inspect for damage and replace if necessary.
Adjustment collar is stiff	Dirt or debris; Lack of lubrication.	Clean the adjustment area; Do not force. If problem persists, seek professional service.

8. SPECIFICATIONS

- **Model:** OM 0794
- **Brand:** CLAS Equipements
- **Drive Size:** 1/4 inch
- **Torque Range:** 5 - 25 Newton-meters (Nm)
- **Increment:** 0.25 Nm
- **Length:** 240 mm (approximately 27 cm product dimensions)
- **Material:** Metal
- **Finish:** Polished
- **Color:** Silver
- **Weight:** 510 grams
- **Head Type:** Fixed Square
- **Power Source:** Hand-operated

9. WARRANTY AND SUPPORT

CLAS Equipements products are manufactured to high standards. This product is distributed by CENTRALE DIGITALE. For any questions regarding the operation, maintenance, or troubleshooting of your torque wrench, please refer to this manual.

In case of a defect or malfunction, please contact your retailer or the CLAS Equipements customer service. Keep your proof of purchase for warranty claims. The product respects current standards in force.

For returns, a 30-day return policy is typically offered by the seller. Please check with your point of purchase for specific return and warranty details.

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