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› EPAuto 1/2-inch Drive Click Torque Wrench Instruction Manual

EPAuto ST-010-1

EPAuto 1/2-inch Drive Click Torque Wrench Instruction Manual

Model: ST-010-1

PRODUCT OVERVIEW

The EPAuto 1/2-inch Drive Click Torque Wrench is a precision tool designed for accurate tightening of fasteners. It ensures proper torque application, preventing damage from over-tightening and loosening from under-tightening. This wrench is suitable for a wide range of automotive and mechanical tasks.

- **Durable Ratchet Head:** Made from Hardened treated Chrome Vanadium steel alloy (Cr-V) with a corrosion-retardant satin finish.
- **Easy Storage:** Includes a sturdy plastic storage case for protection.
- **Non-Slip Grip:** Features a knurled handle for a firm grip, even with oily hands.
- **Easy to Read:** High contrast and dual range scale for clear readings in both foot-pounds (ft/lb) and Newton-meters (N/m).
- **Accurate:** Pre-calibrated to $\pm 4\%$ accuracy.
- **Accessories included:** Comes with a 1/2" Drive 5" long Extension Bar.
- **Simple and Reliable:** Provides an audible and tactile "click" when the preset torque value has been reached, indicating when to stop applying force.



Image: The EPAuto 1/2-inch Drive Click Torque Wrench displayed in its durable plastic storage case, alongside its instruction manual and included extension bar.

SETUP

Unboxing and Initial Inspection

Upon receiving your EPAuto Torque Wrench, carefully open the sturdy plastic storage case. Inside, you will find the torque wrench, a 1/2" drive 5" long extension bar, and the instruction manual with conversion tables. Inspect all components for any signs of damage during transit. Ensure the wrench's knurled handle and dual scale are clear and readable.



Image: The torque wrench, extension bar, and instruction manual neatly organized within their custom-fit storage case, ready for use.

Setting the Torque Value

The torque wrench features a dual-range scale for both foot-pounds (ft/lb) and Newton-meters (N/m). To set the desired torque:

1. Locate the lock nut at the end of the handle.
2. Twist the lock nut counter-clockwise to unlock the handle.
3. Rotate the knurled handle to align the top edge with the desired major torque value on the main scale (e.g., 80 ft/lb).
4. Further rotate the handle to align the micrometer scale's mark (e.g., 5 for 85 ft/lb) with the vertical line on the main scale.
5. Once the precise torque is set, twist the lock nut clockwise to lock the handle in place. This prevents accidental changes during operation.



Image: A detailed view of the torque wrench's dual scale, showing both Newton-meter (N-M) and Foot-pound (FT-LB) measurements for precise torque setting.

For a visual guide on setting the torque and initial use, please refer to the official instruction video below:

Your browser does not support the video tag.

Video: Official EPAuto instruction video demonstrating how to unbox, set the torque, and properly use the 1/2-inch Drive Click Torque Wrench for various applications.

OPERATING INSTRUCTIONS

Using the EPAuto Torque Wrench correctly ensures fasteners are tightened to their specified torque, which is critical for safety and component longevity. Always consult your vehicle or equipment's service manual for the correct torque specifications.

1. **Attach Socket:** Select the appropriate socket for your fastener and attach it firmly to the 1/2-inch square drive of the torque wrench. The included 5-inch extension bar can be used for hard-to-reach fasteners.
2. **Position Wrench:** Place the socket onto the fastener (nut or bolt head). Ensure the wrench is positioned to allow for a smooth, continuous pull in a clockwise direction for tightening.

3. **Apply Force:** Pull the handle slowly and steadily in a clockwise motion. Avoid jerky movements or sudden stops.
4. **Listen for the Click:** Continue applying force until you hear and feel a distinct "click" from the wrench. This indicates that the preset torque value has been reached.
5. **Stop Applying Force:** Immediately stop pulling the wrench once the click is heard/felt. Do not continue to tighten the fastener beyond this point, as it can lead to over-tightening and damage.
6. **Release Pressure:** Release pressure on the wrench. The ratchet head will reset for the next use.



Image: A person demonstrating the proper use of the torque wrench to tighten lug nuts on a car wheel, ensuring accurate and safe fastening.

MAINTENANCE

Proper maintenance will extend the life and accuracy of your EPAuto Torque Wrench.

- **Cleaning:** After each use, wipe the wrench with a clean, dry cloth. Do not use any cleaning solvents or liquids, as they can damage the internal mechanisms or affect calibration.
- **Storage:** Always return the torque wrench to its lowest torque setting (10 ft/lb or 13.6 N/m) before storing it. This relieves tension on the internal spring, preserving its calibration accuracy over time.

- **Protective Case:** Store the wrench in its original sturdy plastic case in a dry, clean environment to protect it from dust, moisture, and physical damage.
- **Avoid Dropping:** Do not drop the torque wrench, as this can severely affect its calibration and internal components.
- **Recalibration:** For professional use or after prolonged periods of heavy use, it is recommended to have the torque wrench recalibrated by a qualified service center to maintain its accuracy.



Image: Multiple close-up views of the torque wrench's durable ratchet head, highlighting its robust construction and the direction switch for tightening or loosening.

TROUBLESHOOTING

The EPAuto 1/2-inch Drive Click Torque Wrench is designed for reliability. If you encounter issues, consider the following:

- **No Click Sound:** Ensure the torque setting is not below the minimum range. Apply force smoothly and steadily; a sudden jerk might prevent the click. If the issue persists, the wrench may require recalibration.
- **Inaccurate Readings:** Verify that the torque setting is locked properly. Dropping the wrench can affect its calibration. Recalibration by a professional is recommended if accuracy is suspected to be off.
- **Stuck Adjustment:** Ensure the lock nut is fully loosened before attempting to adjust the torque. Clean any debris from the adjustment mechanism.

For further assistance, refer to the official user guide or contact EPAuto customer support.

SPECIFICATIONS

Feature	Detail
Brand	EPAuto
Model Number	ST-010-1
Drive Size	1/2 Inch Drive
Torque Range (ft.-lb.)	10-150 ft.-lb.
Torque Range (N/m)	13.6-203.5 N/m
Accuracy	± 4%
Material	Chrome Vanadium steel alloy (Cr-V)
Finish Type	Satin
Item Length	16.25 Inches
Item Weight	3.5 Pounds
UPC	690443852023
Country of Origin	Taiwan

WARRANTY AND SUPPORT

Specific warranty details are not provided in this manual. For information regarding warranty coverage, claims, or technical support, please refer to the official EPAuto website or contact their customer service directly. An official Installation Manual (PDF) is available for download:[Download Installation Manual](#)

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