



Manuals.plus /

› **YIYEIE** /

› YIYEIE 3-in-1 Torque Wrench Set User Manual (1/4" & 1/2" Drive, 10-230 In.lb / 10-180 Ft.lb)

YIYEIE Y0091

YIYEIE 3-in-1 Torque Wrench Set User Manual

Models: 1/4" Drive (10-230 In.lb / 1.1-26.0 Nm), 1/2" Drive (10-180 Ft.lb / 13.6-244.1 Nm)

1. INTRODUCTION

Thank you for choosing the YIYEIE 3-in-1 Torque Wrench Set. This set provides precision and versatility for various applications, including bicycle, motorcycle, and automotive maintenance. It includes two frequently used torque wrenches (1/4" and 1/2" drive) and a 1/2" to 3/8" adapter, offering a comprehensive solution for accurate fastening.

Each wrench features dual-range scales and high-precision adjustments, ensuring reliable performance. The upgraded design includes a distinct 'Click' sound for torque indication and a durable construction from hardened Cr-V steel and aerospace aluminum.



Image 1.1: Overview of the YIYEIE 3-Piece Torque Wrench Set, showing the 1/4" and 1/2" drive wrenches and the 1/2" F x 3/8" M adapter. Dimensions are indicated for each wrench.

2. SETUP AND INITIAL INSPECTION

2.1 Unpacking

- Carefully remove all components from the packaging.
- Verify that all items listed in the package contents are present: 1/4" drive torque wrench, 1/2" drive torque wrench, and 1/2" F x 3/8" M adapter.
- Inspect each tool for any signs of damage that may have occurred during shipping.

2.2 Calibration Certificate

Each YIYEIE torque wrench is rigorously tested and comes with a formal calibration certificate, ensuring an accuracy within $\pm 3\%$. The wrenches are pre-calibrated and ready for immediate use.



UP TO $\pm 3\%$
HIGH ACCURACY
 Ensuring your items are safe and secure

Y&YEIE
 Certificate of Calibration

Model Number: Y0091-2
 Serial Number: Y25080043
 Range: 10 lbf-ft - 180 lbf-ft
 Tolerance: $\pm 3\%$
 Calibration Equipment: B119228
 Accuracy of Equipment: $\pm 0.5\%$ @20°C

Note: It is strongly recommended that the wrench be recalibrated no later than 5000 cycles or no later than 12 months after the date it is put in service, whichever comes first.

Test Standard: Readings are within accuracy requirements of ASME B107.3-2010, ISO 6789-2017 $\pm 3\%$ in clockwise direction and $\pm 6\%$ in counter-clockwise direction.

Set Torque (ft. lb.)	Readings (ft. lb.)	Max Error (%)
36	36.19 36.23 36.29	0.66
108	108.67 108.63 108.60	0.59
180	182.18 181.70 180.97	0.90

Test Results: Accept Reject

Calibrated by: _____ Date: 2025.05.06

Image 2.1: Example of the calibration certificate provided with each torque wrench, confirming $\pm 3\%$ accuracy.

3. OPERATING INSTRUCTIONS

3.1 Setting the Torque Value

- 1. Unlock the Handle:** Push up the upgraded lock ring located at the base of the handle to unlock it. This allows the handle to rotate freely.
- 2. Adjust Torque:** Rotate the handle to set the desired torque value. The dual-range scales (In.lb/Nm for 1/4" drive, Ft.lb/Nm for 1/2" drive) are laser-etched for clear readability. Use the main scale and the micro-adjustment scale on the handle for precise settings.
- 3. Lock the Handle:** Once the desired torque is set, pull down the lock ring to secure the handle. This prevents accidental changes during use.

57% EFFICIENCY BOOST

1. Push up
2. Rotate
3. Pull down

Traditional design requires
Pulling & holding

Upgraded Lock Ring
Push once, twist freely

Image 3.1: Illustration of the upgraded lock ring mechanism. Push up to unlock and rotate, then pull down to lock the handle for torque setting.

DUAL RANGE DESIGN

Clear size marking, easy to read



Image 3.2: Close-up view of the dual range scales (lbf-ft and N-m) on the torque wrenches, demonstrating how to read and set precise values.

3.2 Attaching Sockets and Adapters

- Press the quick-release button on the ratchet head.
- Insert the desired socket or the 1/2" F x 3/8" M adapter onto the square drive.
- Release the button to securely lock the socket/adapter in place.

3.3 Applying Torque

1. Select the appropriate direction (clockwise or counter-clockwise) using the reversible lever on the ratchet head. The 72-tooth mechanism allows for smooth operation in tight spaces.
2. Apply steady, increasing force to the wrench handle.
3. Listen for a distinct "CLICK" sound and feel a sharp vibration. This indicates that the preset torque value has been reached.
4. Immediately stop applying force once the click is heard/felt to prevent over-torquing. For low-torque applications (under 5 Nm), the click may be subtler, requiring careful attention.

CLICK-STOP

No more damage from over-tightening

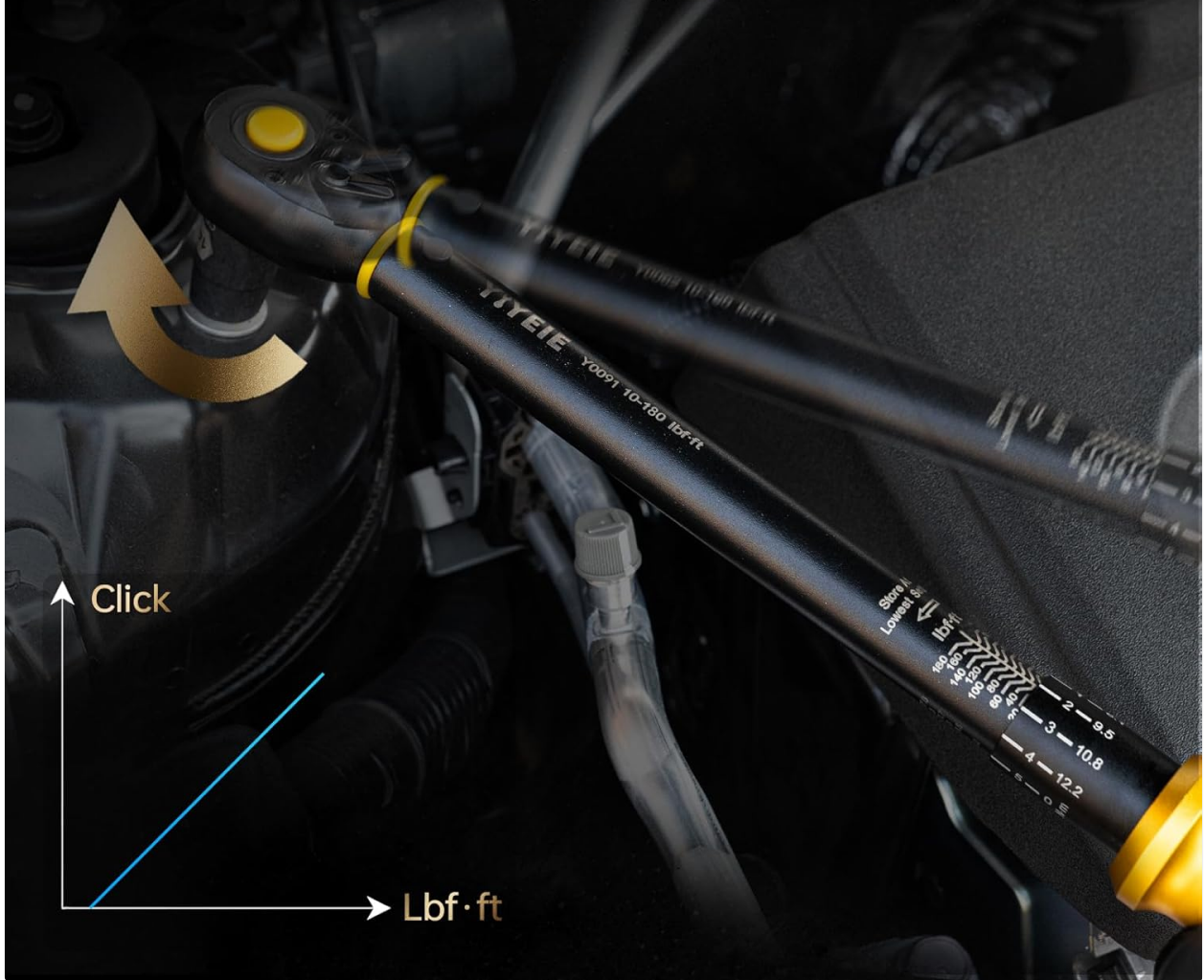


Image 3.3: Visual representation of the 'Click-Stop' mechanism, indicating when the preset torque is achieved.

20000+ TIMES

Fully pre-calibrated for your use



Image 3.4: Detailed view of key features including the 72-tooth gears, reversible ratchet, quick-release button, and anti-slip handle for enhanced usability.

4. MAINTENANCE

4.1 Cleaning and Storage

- After each use, wipe the torque wrench clean with a dry, soft cloth. Do not use solvents or harsh chemicals, as these can damage the finish and markings.
- Always return the torque setting to its lowest value (but not below the minimum) before storing. This relieves tension on the internal spring mechanism, prolonging the wrench's accuracy and lifespan.
- Store the torque wrench in its protective case in a dry, clean environment, away from extreme temperatures and humidity.

4.2 Recalibration

While your YIYEIE torque wrench is factory calibrated, it is recommended that the wrench be recalibrated no later than 5000 cycles or not more than 12 months after the date it is put into service, whichever comes first. This ensures continued accuracy and reliability.

5. TROUBLESHOOTING

5.1 No Audible Click

- **Low Torque Setting:** For torque values below 5 Nm, the click may be very subtle. Apply force slowly and carefully, paying close attention to the tactile feedback.
- **Incorrect Setting:** Ensure the lock ring is properly engaged after setting the torque value.
- **Worn Mechanism:** If the wrench has been used extensively or improperly, the internal mechanism might be worn. Consider professional recalibration or replacement.

5.2 Inaccurate Readings

- **Improper Technique:** Ensure a smooth, steady pull on the handle. Jerking or sudden movements can affect accuracy.
- **Wrench Condition:** Check for any visible damage to the wrench.
- **Recalibration Needed:** If the wrench has exceeded its recommended recalibration interval (5000 cycles or 12 months), its accuracy may degrade. Refer to Section 4.2.

5.3 Socket/Adapter Not Holding

- Ensure the quick-release button is fully released after inserting the socket/adapter.
- Check for debris in the square drive or on the socket/adapter.
- Inspect the square drive and socket for wear or damage.

6. SPECIFICATIONS

Feature	Specification
Model Number	Y0091
Drive Sizes Included	1/4 inch, 1/2 inch
Adapter Included	1/2" F x 3/8" M Adapter
1/4" Drive Torque Range	10-230 In.lb (1.1-26.0 Nm)
1/4" Drive Micro-Adjustment	1 In.lb
1/2" Drive Torque Range	10-180 Ft.lb (13.6-244.1 Nm)
1/2" Drive Micro-Adjustment	1 Ft.lb
Accuracy	±3%
Ratchet Teeth	72-Tooth
Ratchet Direction	Reversible (Clockwise/Counter-clockwise)
Ratchet Head Material	Hardened Chromium Molybdenum Steel (Cr-Mo)
Handle Material	Aerospace Aluminum
Adapter Finish	Phosphating
Overall Weight	1.99 Kilograms

BE A TORQUE PRO

Exceptional durability with professional-grade precision for Bike and Car Wheels, installation & maintenance



Image 6.1: The YIYEIE torque wrench is suitable for a wide range of applications, including bicycle, motorcycle, and automotive repairs.

7. WARRANTY AND SUPPORT

The YIYEIE 3-in-1 Torque Wrench Set comes with a 12-month warranty from the date of purchase. This warranty covers manufacturing defects and material flaws under normal use.

For any questions, technical assistance, or warranty claims, please contact our customer support. Refer to your purchase documentation for specific contact details or visit the official YIYEIE website.