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> MESGS MG NYG 3/8-Inch Drive Torque Wrench User Manual (5-45 Ft-Lb / 6.8-61 Nm)

MESGS MG NYG

MESGS MG NYG 3/8-Inch Drive Torque Wrench User Manual

Model: MG NYG | Torque Range: 5-45 Ft-Lb (6.8-61 Nm)

INTRODUCTION

This manual provides essential instructions for the safe and effective operation, maintenance, and care of your MESGS MG NYG 3/8-Inch Drive Torque Wrench. Please read this manual thoroughly before using the tool to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

SAFETY INFORMATION

- Always wear appropriate personal protective equipment, such as safety glasses, when using this tool.
- Do not exceed the maximum torque capacity of 45 Ft-Lb (61 Nm). Over-torquing can damage fasteners and the wrench.
- Ensure the fastener and socket are clean and free of debris before applying torque.
- Do not use the torque wrench as a breaker bar or for loosening fasteners. It is designed for precise tightening only.
- Avoid dropping the wrench, as this can affect its calibration and accuracy.
- Store the torque wrench in its protective case when not in use, and set it to the lowest torque setting (but not below) to relieve spring tension.
- Keep out of reach of children.

PRODUCT OVERVIEW

The MESGS MG NYG torque wrench is a precision instrument designed for accurate fastening. It features a 3/8-inch drive, a 72-tooth reversible ratchet head, and a dual-range scale for both Foot-Pounds (Ft-Lb) and Newton-meters (Nm).



Figure 1: MESGS MG NYG 3/8-Inch Drive Torque Wrench and its protective case.



72 TOOTH

MORE ACCURATE AND
BETTER FLEXIBILITY

Others **X**



24 TOOTH

NOT ACCURATE AND
POOR FLEXIBILITY



LASER SCALE

EASY TO READ AND SET



NOT CLEAR

BLURRY AND REFLECTIVE



**VERTICAL
KNURLED
HANDLE**

GOOD FEEL AND STRONG
FRICTION SUFFICIENT GRIP



EASY TO SLIP

ORDINARY TEXTURE IS
NOT EASY TO HOLD

Figure 2: Key features including the 72-tooth ratchet head, laser-etched dual scale, and ergonomic knurled handle.

SPECIFICATIONS

Feature	Detail
Model Number	MG NYG
Drive Size	3/8-Inch
Torque Range	5-45 Ft-Lb (6.8-61 Nm)
Accuracy	±3%
Ratchet Teeth	72-Tooth

Feature	Detail
Direction	Dual-Direction (Clockwise & Counter-clockwise)
Material	Chrome Vanadium Steel
Item Length	11.5 Inches
Item Weight	1 Pound
Finish	Powder Coated (Black with Orange Electrophoretic Coating)
Included Components	Blow molding box




Figure 3: Dual scale markings for Foot-Pounds (Ft-Lb) and Newton-meters (Nm).

CELIBRATION CERTIFICATE

ACCURACY

UP
TO

± 3%


Torque Wrench Test Report
Declaration of Conformity
According to DIN3120 ISO6789-1:2017

Model:	Mechanical Preset 3/8	Serial Number:	MG0020250620005
Measuring Range:	5-45FT-LB	Inspector:	Harlay Sun
Test Date:	2025/06/20	Direction:	Right

The Maximum permissible deviation is ±3%

Set Torque Value	Minimum	Maximum	Test Read Value
5.0FT-LB	4.85FT	5.15FT	5.06FT
22.5FT-LB	21.825FT	23.175FT	22.54FT
45.0FT-LB	43.65FT	46.35FT	45.21FT

Verified: All test readings meet the requirements of the maximum allowable relative deviation. Tested at ambient temperature of 18°C and 28°C, the temperature fluctuation during the experiment does not exceed ±2°C. The maximum relative humidity does not exceed 90%
Tester: HOYO Werkzeuge GmbH According to ISO 6789-1:2017, the maximum allowable relative deviation is ±4%

Test Temperature	23°C	Test Air Humidity	45%
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Measuring system used: Measuring tool model: HY-88532 The maximum measuring error of the measuring system does not exceed ¼ of the maximum allowable relative deviation of the torque wrench

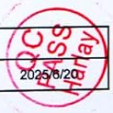
Inspectors:	
Inspection Date:	2025/6/20



Figure 4: Example of a calibration certificate, indicating ±3% accuracy.

SETUP AND TORQUE SETTING

Follow these steps to set the desired torque value on your wrench:

1. **Unlock the Handle:** Pull down the knurled locking collar located at the base of the handle. This will allow the handle to rotate.



Figure 5: Visual guide for setting torque: Unlock, Rotate to Set, Rebound Lock.

2. **Set the Torque Value:** Rotate the handle to align the desired torque value on the main scale with the zero mark on the micrometer scale. For example, to set 7.5 Ft-Lb, align '5' on the main scale with the indicator line, then rotate the handle further until '2.5' on the micrometer scale aligns with the main scale line. The sum ($5 + 2.5 = 7.5$ Ft-Lb) is your set torque.



Figure 6: Detailed view of the dual scale for precise torque setting.

3. **Lock the Handle:** Once the desired torque is set, release the locking collar. It will automatically rebound and lock the handle in place. Ensure it is securely locked before use.

OPERATING INSTRUCTIONS

1. **Attach Socket:** Press the quick-release button on the ratchet head and firmly attach the appropriate socket to the 3/8-inch drive square. Ensure the socket is fully seated.



Figure 7: Quick-release mechanism for secure socket attachment and removal.

2. **Select Ratchet Direction:** Use the lever on the ratchet head to select the desired direction (clockwise for tightening, counter-clockwise for loosening, though the wrench is primarily for tightening).



Figure 8: Reversible ratchet head for clockwise and counter-clockwise operation.

3. **Apply Torque:** Place the socket onto the fastener. Apply smooth, steady pressure to the handle in the tightening direction. Do not jerk or apply sudden 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 value has been reached. Immediately stop applying force.

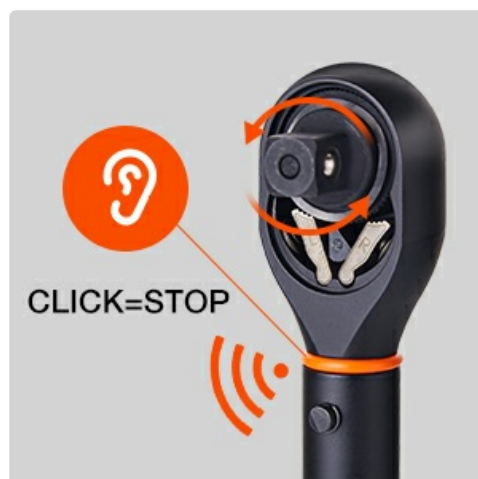


Figure 9: The audible "click" signals that the target torque has been achieved.

5. **Release:** Remove the wrench from the fastener.

Note: For optimal accuracy, always pull the wrench rather than push it, and ensure your hand is positioned on the handle for consistent leverage.



Figure 10: Using the torque wrench, including the quick-release function and reversible head.

MAINTENANCE

- **Cleaning:** Wipe the wrench clean with a soft, dry cloth after each use. Do not use solvents or harsh chemicals, as these can damage the finish and markings.
- **Storage:** Always store the torque wrench in its original protective blow-molded case. Before storing, set the torque value to the lowest setting (5 Ft-Lb or 6.8 Nm) to relieve tension on the internal spring mechanism. Do not set it below the lowest marked value.
- **Calibration:** Torque wrenches are precision tools and may require periodic recalibration to maintain accuracy. The

manufacturer recommends professional recalibration annually or after significant impact.



Figure 11: The wrench features a black oxide coating over military-grade steel with an orange electrophoretic coating for durability and rust resistance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No audible click	Torque setting too low; Wrench not properly calibrated; Fastener already tight.	Ensure torque is set correctly. If issue persists, consider professional recalibration. Do not over-tighten.
Inaccurate torque readings	Wrench dropped; Improper use; Out of calibration.	Avoid dropping the tool. Use smooth, steady pull. Have the wrench professionally recalibrated.

Problem	Possible Cause	Solution
Handle difficult to rotate/lock	Debris in mechanism; Locking collar not fully disengaged.	Clean the handle area. Ensure the locking collar is pulled down completely before rotating. Do not force.

WARRANTY AND SUPPORT

MESGS products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official MESGS website. Keep your purchase receipt as proof of purchase.

For further assistance, please contact MESGS customer service.