



Digital Adjustable Torque Wrench

Operation and Maintenance Instructions



Model

1963826

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INTRODUCTION

The hilmor Digital Adjustable Torque Wrench makes tightening flare nuts easy. Simply adjust the jaw to fit the most common imperial or metric flare nut sizes and set the torque on the digital screen to help ensure your connection point is tightened properly again and again.

Every hilmor Digital Adjustable Torque Wrench comes factory-calibrated to +/-3% accuracy and has a two-year limited warranty on craftsmanship. Damages caused by misuse are not covered under warranty. A calibration certificate is included with the product.

WARNING:

It is important to read the entire instruction manual carefully in order to gain a complete understanding of the tool's features, limitations and specifications before use. hilmor products are designed and manufactured to be used by trained and licensed HVAC/R technicians. Incorrect application could result in accidents, injuries or death. Refer to page 10 for safety warnings.

KEY FEATURES



Lighten Your Load

- Adjustable jaw eliminates the need to carry around extra wrench heads.



Easy to Use

- Nine programmable memory settings allow for quick access to the most common torque levels.



Precise Readings

- Digital adjustments help ensure torque measurement accuracy.



Extra Confidence

- LED lights and buzzer indicate that desired torque has been reached.

WRENCH COMPONENTS



1	Jaw	6	Communication Port
2	Positioning Portion	7	Buttons
3	Knurl	8	Battery Compartment
4	Digital Display	9	Battery Cap
5	Buzzer		






10	LED Indicator	15	Power On/Clear Button
11	Torque Value	16	Presetting Number Selection Button
12	Presetting Number	17	Unit Selection/Setting Button
13	Units	18	Up/Down Button
14	P(Peak Hold)/T(Track) Mode		

SETUP INSTRUCTIONS



Battery Installation:

1. Remove the battery cap at the back end of the hilmor Digital Adjustable Torque Wrench.
2. Insert two AA batteries, with the + side facing into the battery compartment.
3. Put on the battery cap and twist to the LOCKED position.
4. When the battery is low, a notification will appear on the screen as a battery icon.


Power On/Off and Clear:

1. Press  to power on the hilmor Digital Adjustable Torque Wrench.
2. Press  again to ensure that the hilmor Digital Adjustable Torque Wrench is cleared before use.
3. The hilmor Digital Adjustable Torque Wrench will shut off automatically after four minutes to preserve battery life. Press  again to turn the hilmor Digital Adjustable Torque Wrench back on.

Reset “Clear” Settings Between Completed Torque Jobs:

1. Press  and  at the same time to reset.


Unit Selection:

1. Unit of measure can be changed if the hilmor Digital Adjustable Torque Wrench is UNLOCKED. See page 6 for instructions on unlocking.
2. Press  to scroll through the different units and then stop to select.




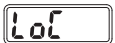








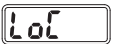

The hilmor Digital Adjustable Torque Wrench measures in four different torque units:

- Newton-Meters (N-m)
- Foot-Pounds (ft-lbs)
- Inch-Pounds (in-lbs)
- Kilogram-Centimeters (kg-cm)

MEMORY PRESETS

1. The hilmor Digital Adjustable Torque Wrench has nine memory settings. These are displayed at the bottom of the display by the symbols.
2. To use a different preset, press the  button repeatedly until you arrive on the desired preset number.

Changing Preset Values:

1. UNLOCK: The preset values can be customized if you turn the lock OFF.
Press and hold  until the screen displays . Then press the  button one additional time until  is displayed. Toggle to OFF, using the arrow buttons. Press  four additional times to get back to the torque value screen.
2. Change to Preset number: Press the  button repeatedly until you arrive on the memory setting number that you want to change the torque values on.
 - Unit of measure: Press the  button until you reach the unit of measure you want to set the memory to.
 - Torque value: Press the  or  arrow and scroll until the desired torque reading is displayed on the screen.
1. LOCK: Press and hold  until the screen displays . Then press the  button one additional time until  is displayed. Toggle to ON using the arrow buttons. Press  four additional times to get back to the torque value screen.

Memory Presets

1		2		3		4		5	
ft-lbs	14	ft-lbs	30	ft-lbs	40	ft-lbs	48	ft-lbs	59
in-lbs	168	in-lbs	360	in-lbs	480	in-lbs	576	in-lbs	708
N-m	19	N-m	40.7	N-m	54.3	N-m	65.1	N-m	80
kg-cm	194	kg-cm	415	kg-cm	554	kg-cm	664	kg-cm	816


Four additional memory settings can be customized to other common torque values.

OPERATING INSTRUCTIONS

Peak Mode vs. Track Mode:







1. Peak Mode allows you to hold the reading of the maximum torque applied after turning the hilmor Digital Adjustable Torque Wrench. This works well where you are unable to see the display during use, such as using it in a tight space.
2. Track Mode allows you to see the reading in real time as torque is applied, but the reading disappears when you remove the hilmor Digital Adjustable Torque Wrench from the flare nut. It works well when you are able to easily view the display.

Usage Instructions (Peak Mode: Preset Standard):


1. Apply force slowly to the center of the handle.
2. The torque reading will increase as force is applied. When force is removed, the hilmor Digital Adjustable Torque Wrench can be removed from the nut and the current maximum torque will flash on the screen. As force is applied again, the reading will increase and the new number will flash upon removal.
3. LED lights along the sides of the display will increase as the hilmor Digital Adjustable Torque Wrench gets closer to the desired torque. A buzzer will also sound as torque is applied, speeding up as torque is increased.
4. When desired torque is reached, the green lights will continue and a red light will appear. The buzzer will also change to a steady tone. Upon removal, the screen should display the desired torque.
 - Do not torque to more than 110% of maximum torque range. This will cause an error message  to appear and can decrease the accuracy of the hilmor Digital Adjustable Torque Wrench.
 - Maximum torque values: 135 N-m, 99.5 ft-lbs, 1195 in-lbs, 1378 kg-cm.

Track Mode:

To Select Track Mode

1. The hilmor Digital Adjustable Torque Wrench will be set from the factory to Peak Mode. This can be verified by looking for the small “P” in the bottom right corner of the screen.
2. To change to Track Mode, first press and hold  until  appears.
3. Press the  or  arrows to select T (Track Mode) or P (Peak Mode).
4. Press  again.
5. Press  repeatedly until the display screen is showing the torque reading. Check for a P or T in the bottom right corner.

Usage Instructions (Track Mode):

1. Apply force slowly at the center of the handle.
2. As the flare nut is tightened, the actual torque value will appear on the screen and increase as more torque is applied.
3. LED lights along the sides of the display will increase as the hilmor Digital Adjustable Torque Wrench gets closer to the desired torque value. A buzzer will sound as torque is applied, speeding up as torque is increased.
4. When the desired torque value is reached, the value will appear on the display, the green lights will continue and a red light will appear. The buzzer will also change to a steady tone.
 - Do not torque to more than 110% of maximum torque range. This will cause an error message  to appear and can decrease the accuracy of the hilmor Digital Adjustable Torque Wrench and require recalibration.
 - Maximum torque values: 135 N-m, 99.5 ft-lbs, 1195 in-lbs, 1378 kg-cm.

TECHNICAL SPECIFICATIONS

Part Number	1963826
Jaw Size (Inches)	1/4" to 1-1/16"
Jaw Size (Metric)	5mm to 27mm
Torque Range (N-m)	6.8-135
Torque Range (ft-lbs)	5-99.5
Torque Range (in-lbs)	60-1195
Torque Range (kg-cm)	69-1378
Accuracy	+/- 3%
Batteries	2-AA
Measurement Increments	0.1 (N-m, ft-lb)
Operation Modes	Track, Peak
Memory Presets	9
Operating Temperature	14°F to 140°F

ADDITIONAL INFORMATION:

- The hilmor Digital Adjustable Torque Wrench has an automatic shutoff feature. It will shut off after four minutes of inactivity to conserve battery life. Simply press the power button to restart.
- A low battery symbol will appear at the bottom of the display when the batteries are low.



MAINTENANCE, SAFETY & LIMITED WARRANTY

MAINTENANCE:

In order to maintain tool accuracy and retain optimal performance, the hilmor Digital Adjustable Torque Wrench should be treated with care.

- The hilmor Digital Adjustable Torque Wrench should be recalibrated once a year to maintain accuracy. Please register your hilmor Digital Adjustable Torque Wrench at hilmor.com for calibration details.
- Tightening to a torque level of 110% or more of the maximum torque range can result in loss of accuracy.
- Do not shake, drop or use the hilmor Digital Adjustable Torque Wrench as a hammer. Store the hilmor Digital Adjustable Torque Wrench in its kit box in a safe location when not in use.
- Do not leave the hilmor Digital Adjustable Torque Wrench exposed to excessive heat, humidity or direct sunlight for extended periods of time.
- Avoid contact with magnets.
- Avoid contact with water. If the hilmor Digital Adjustable Torque Wrench gets wet, wipe dry with a towel as soon as possible.

SAFETY PRECAUTIONS:

- **WARNING!** To prevent personal injury, please read the operating manual carefully and operate only as instructed. Wear safety glasses, gloves and all other recommended safety gear when working with refrigerants. Contact with refrigerants may cause injury.

LIMITED WARRANTY:

- The hilmor Digital Adjustable Torque Wrench has a two-year limited warranty from the purchase date.



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