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## NEIKO 20741A

# NEIKO 20741A 1/2" Digital Torque Adapter Instruction Manual

Model: 20741A

Brand: NEIKO

## INTRODUCTION

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This manual provides instructions for the proper use and maintenance of your NEIKO 20741A 1/2" Digital Torque Adapter. Please read this manual thoroughly before operation to ensure safe and efficient use of the product. Retain this manual for future reference.



Image: The NEIKO 20741A 1/2" Digital Torque Adapter stored within its custom-fit protective case, highlighting its compact design and secure storage solution.

## PRODUCT FEATURES

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- **Torque Wrench Conversion:** This digital torque adapter converts any standard ratchet wrench into a precision torque wrench with a digital gauge. It also functions as an accurate calibration device for existing digital and analog torque wrenches.
- **Metric/SAE & Bi-Directional:** The adapter supports both metric and SAE units (Ft.-Lb., N-m, Kg-m, Kg-cm, in-lb). It features a 1/2-inch drive and can measure torque in both clockwise and counter-clockwise directions.
- **Peak and Trace Mode:** Two operational modes are available: **Peak Mode** indicates the maximum torque value reached during tightening, and **Trace Mode** displays the real-time torque being applied.
- **Audible and Visual Alert:** An audible buzzer and a 3-color LED light indicator system provide progressive notifications as the specified torque setting is approached and reached. The unit automatically shuts off after 80 seconds of idle time.

## SPECIFICATIONS

Feature	Value
Torque Range	29.5-147.5 Ft-Lb (40-200 N-m)
Accuracy	+/- 2%
Memory	50 readings
Units	Kg-m, Kg-cm, in-lb, Ft-lb, N-m
Auto Shut Off	80 seconds
Alarm	Buzzer & LED
Battery	2 x AA batteries
Drive Size	1/2" Drive
Material	Metal
Item Length	4.9 Inches
Item Weight	10.6 ounces

## SAFETY INFORMATION

Observe the following safety precautions to prevent injury or damage to the tool:

- Always wear appropriate personal protective equipment (PPE), such as safety glasses, when operating tools.
- Ensure the digital torque adapter is securely attached to the ratchet and socket before applying any force.
- Do not exceed the maximum torque capacity of the adapter or the tool it is used with. Over-torquing can cause damage to fasteners, tools, or the adapter itself.
- Keep the tool clean and dry. Avoid exposure to moisture, dust, or corrosive substances.
- Store the tool in its protective case when not in use to prevent damage.
- Keep this product out of reach of children.
- Avoid dropping or subjecting the adapter to severe impacts, as this can affect its accuracy and

functionality.

## SETUP

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### Battery Installation

The NEIKO 20741A Digital Torque Adapter requires two AA batteries for operation.

1. Locate the battery compartment on the back of the adapter.
2. Open the battery cover.
3. Insert two AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery cover securely.

### Attaching to a Ratchet

The adapter is designed for use with 1/2-inch drive tools.

1. Insert the square drive of the adapter into the corresponding drive of your ratchet wrench.
2. Attach the desired socket to the output square drive of the adapter. Ensure all connections are firm and secure.



Image: The NEIKO Digital Torque Adapter shown connected to a ratchet handle and a socket, illustrating the proper assembly for applying torque.

## OPERATING INSTRUCTIONS

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### Power On/Off

Press the **Power** button (labeled with a circle and vertical line symbol) to turn the adapter on or off. The unit will automatically shut off after 80 seconds of inactivity to conserve battery life.

### Unit Selection

Press the **UNIT** button to cycle through the available torque units: Kg-m, Kg-cm, in-lb, Ft-lb, N-m. The currently selected unit will be displayed on the screen.

### Mode Selection (Peak and Trace)

The adapter offers two operational modes:

- **Peak Mode:** This mode captures and displays the maximum torque value achieved during the tightening process. The value remains on the display until reset or a higher peak is recorded.
- **Trace Mode:** This mode displays the real-time torque being applied to the fastener.

Press the **Peak** or **Trace** button to select the desired mode.

## DUAL MODES

Peak and Trace modes allow for multiple applications of the adapter



Image: A detailed view of the NEIKO Digital Torque Adapter's control panel, showing the digital display, unit selection, mode buttons (Peak, Trace), and set buttons for clear operation.

## Setting Target Torque (Trace Mode Only)

In Trace Mode, you can pre-set a target torque value. The adapter will provide alerts as you approach and reach this value.

1. Press the **SET** button. The display will begin to flash, indicating it is ready for input.
2. Use the **+** and **-** buttons to adjust the target torque value. Holding either button will increase or decrease the value more rapidly.
3. Press **SET** again to confirm your selection, or wait a few seconds for the setting to automatically save.

## Applying Torque

Once the adapter is set up and the desired mode, unit, and target torque (if applicable) are selected:

1. Position the tool assembly (ratchet + adapter + socket) onto the fastener you intend to tighten.
2. Apply smooth, steady force to the ratchet handle. Avoid sudden jerks or impacts.
3. Observe the digital display for real-time torque readings (Trace Mode) or the peak value (Peak Mode).
4. In Trace Mode with a target set, the adapter will emit progressive audio beeps and illuminate LED lights as you approach the target torque. A continuous tone will sound when the target torque is reached.
5. Stop applying force once the desired torque is achieved or the continuous tone sounds.

Your browser does not support the video tag.

Video: An official product video demonstrating the NEIKO Digital Torque Adapter in use, showcasing its functionality in measuring and alerting users to specific torque values during tightening operations.

## MAINTENANCE

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Proper maintenance ensures the longevity and accuracy of your digital torque adapter:

- **Cleaning:** Keep the adapter clean and free from dirt, grease, and moisture. Wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Liquid Exposure:** Do not immerse the adapter in liquids. If it comes into contact with liquid, wipe it dry immediately.
- **Battery Care:** Remove batteries if the adapter will not be used for an extended period to prevent potential battery leakage, which can damage the internal components.
- **Storage:** Store the adapter in its original protective case in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Impact Protection:** Avoid dropping or subjecting the adapter to severe impacts. Such events can compromise the internal sensors and affect accuracy.

## TROUBLESHOOTING

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If you encounter issues with your NEIKO Digital Torque Adapter, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Display not turning on.	Dead batteries or incorrect battery installation.	Replace batteries with fresh AA batteries. Check that batteries are inserted with correct polarity.
Inaccurate readings.	Adapter not properly seated on the ratchet/socket, exceeding torque range, or external interference.	Ensure all connections are secure. Operate within the specified torque range (29.5-147.5 Ft-Lb). Avoid strong electromagnetic fields.
No audible alert when target torque is reached.	Unit not in Trace Mode with a target set, or speaker malfunction.	Ensure the adapter is in Trace Mode and a target torque has been set. If the problem persists, contact customer support.
Auto shut-off occurs too quickly.	Default auto shut-off setting.	The auto shut-off is fixed at 80 seconds of inactivity and cannot be adjusted.

## WARRANTY AND SUPPORT

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For detailed warranty information, product registration, or technical support, please visit the official NEIKO website or contact their customer service department directly. It is recommended to retain your purchase receipt as proof of purchase for any warranty claims.

