

NEIKO 03715B

NEIKO PRO 03715B 1/2" Drive Torque Multiplier Wrench Instruction Manual

Model: 03715B | Brand: NEIKO

1. INTRODUCTION

The NEIKO PRO 03715B Torque Multiplier 1/2" Drive Wrench is designed to provide significant torque output for loosening or tightening stubborn fasteners. This tool is particularly effective on rusted or frozen lug nuts and other high-torque applications where standard wrenches may be insufficient. Constructed with a chrome-moly head and a chrome vanadium shaft handle, it offers durability and a long service life.

This manual provides essential information for the safe and effective use, maintenance, and troubleshooting of your NEIKO PRO 03715B Torque Multiplier Wrench. Please read it thoroughly before operation.

2. SAFETY INFORMATION

WARNING: Always observe general safety precautions when using hand tools. Failure to do so may result in injury or damage to the tool or workpiece.

- **Do not use with impact wrenches:** This torque multiplier is designed for manual operation only. Using it with an impact wrench can cause severe damage to the tool and potential injury.
- **Wear appropriate personal protective equipment (PPE):** Always wear safety glasses, gloves, and other necessary PPE to prevent injury from sudden releases of torque or flying debris.
- **Secure the reaction arm:** Ensure the reaction arm is firmly braced against a solid, immovable object before applying torque. An unsecured reaction arm can cause the tool to spin violently, leading to injury.
- **Maintain a stable stance:** Position yourself to maintain balance and control during operation.
- **Inspect the tool before each use:** Check for any signs of damage, wear, or loose components. Do not use a damaged tool.
- **Keep children and bystanders away:** Ensure the work area is clear of unauthorized personnel.
- **Do not exceed maximum torque ratings:** Refer to the specifications section for the maximum input and output torque. Exceeding these limits can damage the tool and the fastener.

3. PACKAGE CONTENTS

Your NEIKO PRO 03715B Torque Multiplier Wrench package includes:

- 1 x NEIKO PRO 03715B Torque Multiplier Wrench
- 1 x Hard ABS Plastic Blow Mold Case for carrying and storage
- 1 x Reaction Bar



The NEIKO PRO 03715B Torque Multiplier Wrench stored securely in its red blow mold case, alongside its reaction bar.

4. KEY FEATURES

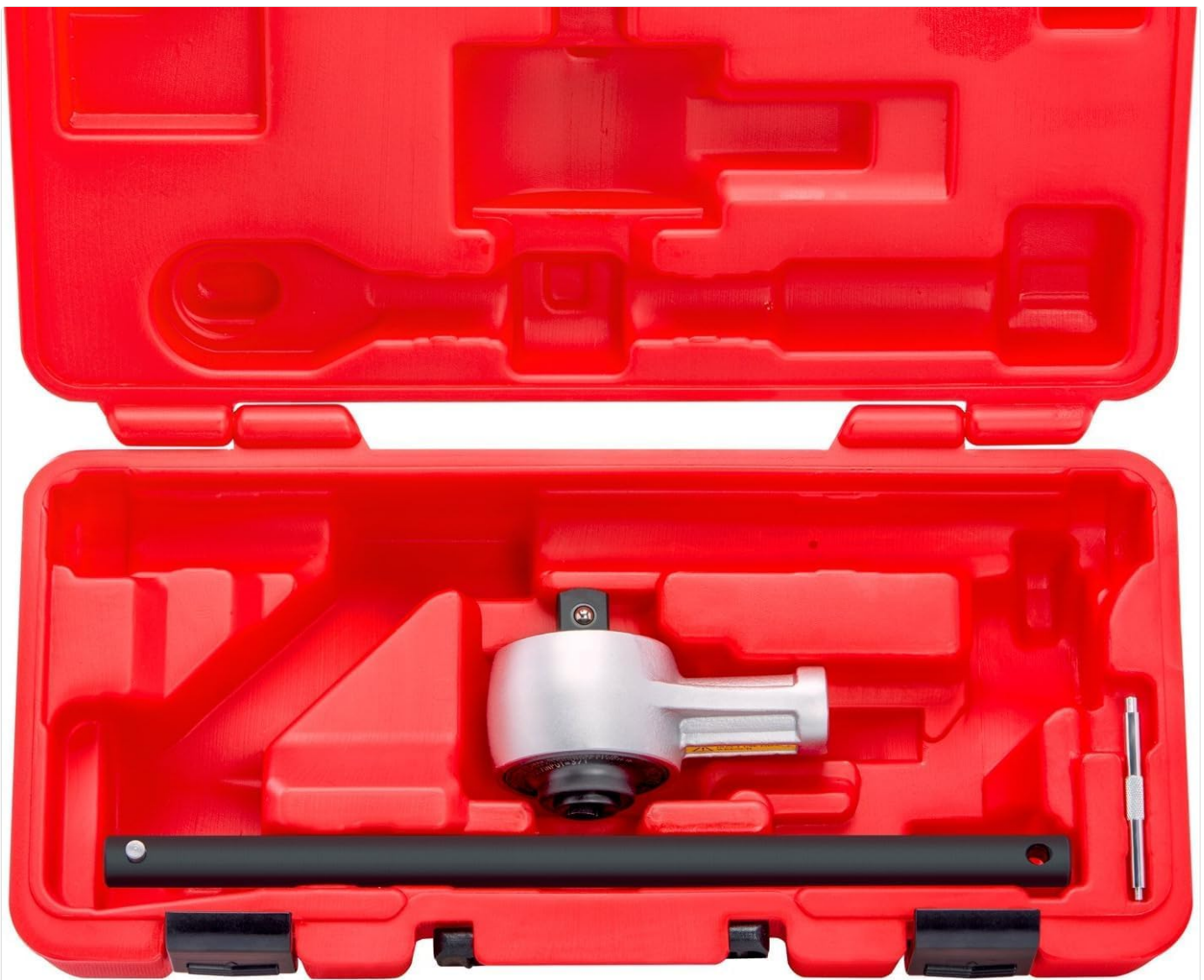
- **Pro-Grade Torque Multiplication:** Delivers powerful torque to loosen or tighten fasteners that resist standard wrenches.
- **Heavy-Duty Construction:** Features a chromium molybdenum (Cr-Mo) head and a chrome vanadium (Cr-V) bar for enhanced durability and long tool life, designed to withstand high torque applications.
- **Supreme Torque Output:** Capable of an 1100 foot-pound output with a maximum input of 365 foot-pound, making it suitable for automotive, construction, industrial, and plumbing tasks.
- **Compact Head Design:** The 13-3/4 inch torque enhancer includes a 2.9 inch head, allowing access to tight and hard-to-reach spaces.
- **Portable Storage:** Comes with a hard ABS plastic case for secure transport and organized storage.

QUALITY CONSTRUCTION

Super sturdy Cr-Mo head and Cr-V bar provides over 3 times the power of ordinary wrenches



The NEIKO PRO 03715B Torque Multiplier Wrench, showcasing its robust design and length.



SAFE STORAGE

Includes blow molded case for safe keeping
and easily transportable between jobs

Dimensional view of the torque multiplier, highlighting its compact head and overall length for accessing confined areas.

5. SETUP

1. **Unpack the Tool:** Carefully remove the torque multiplier wrench and its components from the storage case.
2. **Attach the Input Wrench:** Insert your 1/2" drive ratchet or torque wrench into the input square drive of the multiplier.
3. **Attach the Output Socket:** Connect the appropriate 3/4" drive socket to the output square drive of the multiplier. Ensure the socket is securely seated.
4. **Position the Reaction Arm:** The reaction arm must be braced against a solid, immovable object adjacent to the fastener. This prevents the multiplier from rotating freely and allows the torque to be applied to the fastener. Ensure the reaction arm is stable and will not slip during operation.

VERSATILE TORQUE POWER

Ideal for busting rusted, stubborn fasteners in multiple job applications



Plumbing



Construction



Industrial



Automotive



Detail of the wrench head, illustrating the input (1/2" Drive) and output (3/4" Drive) connections, and engraved specifications.

6. OPERATING INSTRUCTIONS

The NEIKO PRO 03715B Torque Multiplier Wrench has a nominal torque multiplication ratio of approximately 3:1 (input to output). This means that for every unit of torque applied to the input, approximately three units of torque are delivered to the output. Always refer to the markings on the tool for precise ratios, as some variations may occur due to internal friction.

1. **Calculate Required Input Torque:** Determine the desired output torque for your fastener. Divide this value by the multiplier's ratio (e.g., 3) to find the approximate input torque needed from your ratchet or torque wrench. For example, to achieve 300 ft-lb output, you would apply approximately 100 ft-lb to the input.
2. **Position the Tool:** Place the output socket onto the fastener. Ensure the reaction arm is securely braced against a fixed point.

- 3. **Apply Torque:** Using your 1/2" drive ratchet or torque wrench, slowly and steadily apply force to the input drive. The reaction arm will prevent the multiplier body from rotating, allowing the internal gearing to multiply the torque to the output.
- 4. **Observe Fastener Movement:** For loosening, the fastener should begin to turn. For tightening, continue applying torque until the desired input torque is reached on your input wrench (if using a torque wrench).
- 5. **Release and Remove:** Once the task is complete, release the pressure, remove the input wrench, then the multiplier from the fastener.

Important Considerations:

- The reaction arm will move in the opposite direction of your input wrench. Ensure there is sufficient clearance for this movement.
- For critical applications, it is recommended to verify the final torque with a calibrated torque wrench directly on the fastener after using the multiplier.
- Some users have noted that the effective ratio can be closer to 3.1:1 or 3.3:1 due to internal friction. Always account for this when calculating input torque for precise applications.

Your browser does not support the video tag.

This video demonstrates the NEIKO PRO 03715B Torque Multiplier Wrench in use, highlighting its features and operation. It shows the compact head and the included case.

7. MAINTENANCE

- **Cleaning:** After each use, wipe the tool clean with a dry cloth to remove dirt, grease, and debris. Avoid using harsh chemicals that could damage the finish or internal components.
- **Lubrication:** Periodically, the internal gears may benefit from light lubrication. If the tool feels stiff or difficult to operate, a small amount of high-quality grease can be applied to the gear mechanism. This may require partial disassembly, which should only be performed by experienced users.
- **Storage:** Store the torque multiplier wrench in its original blow mold case in a clean, dry environment, away from direct sunlight and extreme temperatures. This protects it from damage and corrosion.
- **Inspection:** Regularly inspect the tool for any signs of wear, cracks, or damage, especially to the drive squares and reaction arm. Replace the tool if any significant damage is found.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool not multiplying torque effectively / Hard to turn	Reaction arm not properly braced or slipping. Internal gears lack lubrication.	Ensure the reaction arm is firmly braced. Inspect for slippage. If the tool feels stiff, consider applying a small amount of grease to the internal gears (if comfortable with minor disassembly).

Problem	Possible Cause	Solution
Fastener not loosening/tightening	Insufficient input torque. Incorrect calculation of multiplication ratio. Fastener is seized beyond the tool's capacity.	Increase input torque within the tool's limits. Re-calculate input torque considering the actual multiplication ratio (e.g., 3.1:1). If the fastener is still stuck, consider alternative methods or professional assistance.
Tool feels loose or makes unusual noises	Internal wear or damage. Loose components.	Discontinue use immediately. Inspect the tool for visible damage. If internal damage is suspected, contact customer support for assistance. Do not attempt to force the tool.
Difficulty fitting into tight spaces	Limited clearance for the tool head or reaction arm.	The tool has a compact 2.9" head, but some applications may still require extensions or alternative tools. Ensure the reaction arm has sufficient space to brace.

9. SPECIFICATIONS

Feature	Detail
Model Number	03715B
Brand	NEIKO
Input Drive Size	1/2 inch
Output Drive Size	3/4 inch
Maximum Input Torque	365 ft-lb (500 Nm)
Maximum Output Torque	1100 ft-lb (1500 Nm)
Multiplication Ratio	Approximately 3:1 (Input:Output)
Material	Alloy Steel, Chrome Vanadium Steel (Cr-Mo head, Cr-V bar)
Item Length	13.75 inches
Head Style	Fixed Square
Item Weight	5.1 pounds
Measurement Standard	SAE (Inch)
Included Components	Torque Wrench, Blow Mold Case

10. WARRANTY AND SUPPORT

For information regarding warranty coverage, product support, or to purchase replacement parts, please refer to the official NEIKO website or contact NEIKO customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

NEIKO is committed to providing high-quality tools and customer satisfaction. If you encounter any issues not covered in this manual, please reach out to their support team for assistance.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question