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FIRSTINFO TOOLS FIT YOUR NEEDS F3220DD

FIRSTINFO F3220DD Compact Torque Multiplier User Manual

Model: F3220DD | Brand: FIRSTINFO TOOLS FIT YOUR NEEDS

1. INTRODUCTION

The FIRSTINFO F3220DD Compact Torque Multiplier is a specialized tool designed to increase the torque applied by a wrench, making it easier to loosen or tighten fasteners, especially lug nuts on vehicles. This manual provides essential information for the safe and effective use, maintenance, and troubleshooting of your torque multiplier.

2. PRODUCT COMPONENTS

The F3220DD torque multiplier features a robust design for reliable performance. Key components include:

- **Input Square (Female):** A 1/2 inch chrome-vanadium alloy input for connecting your drive tool.
- **Output Square (Male):** A 1/2 inch chrome-vanadium alloy output for attaching sockets, ensuring stable torque transfer.
- **Main Body:** Small and lightweight, featuring a patented mechanism made of chrome molybdenum alloy steel for durability and optimized socket size for easy operation.
- **Handle:** A movable reaction handle suitable for various working spaces, supplied with a rubber cover for tire rim protection.



Figure 2.1: Key components of the F3220DD Torque Multiplier.

The torque multiplication ratio is 3.4:1, allowing for a maximum rated output of 600 Nm (443 ft-lbs) with an accuracy tolerance of $\pm 5\%$.

3. SPECIFICATIONS

Specification	Value
Model Number	F3220DD
Brand	FIRSTINFO TOOLS FIT YOUR NEEDS
Material	Metal (Chrome-Vanadium Alloy, Chrome Molybdenum Alloy Steel)
Color	Silver

Specification	Value
Input Square	1/2 inch (Female)
Output Square	1/2 inch (Male)
Torque Multiplication Ratio	3.4:1
Maximum Output Torque	600 Nm (443 ft-lbs)
Maximum Input Torque	176 Nm (130 ft-lbs)
Accuracy Tolerance	±5%
Item Length	15.5 Centimeters (5.9 inches)
Item Weight	960 Grams (2.12 pounds)
Operation Mode	Mechanical (Hand Powered)
UPC	636946342203

Package

- ✓ Well-packed with blister.
- ✓ Small-size, light weight, easy to carry and storage.

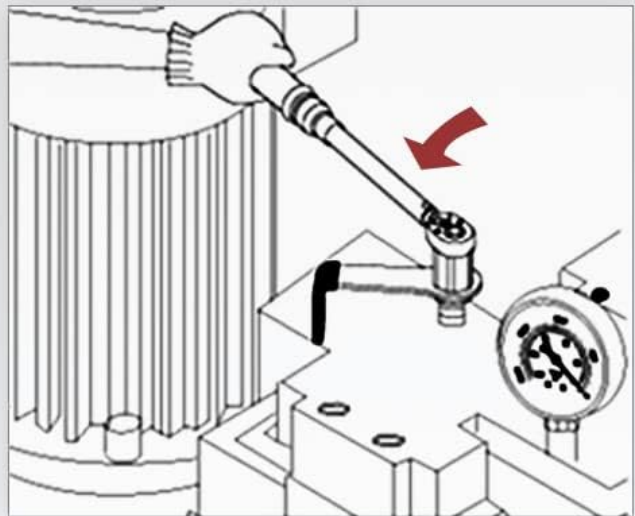
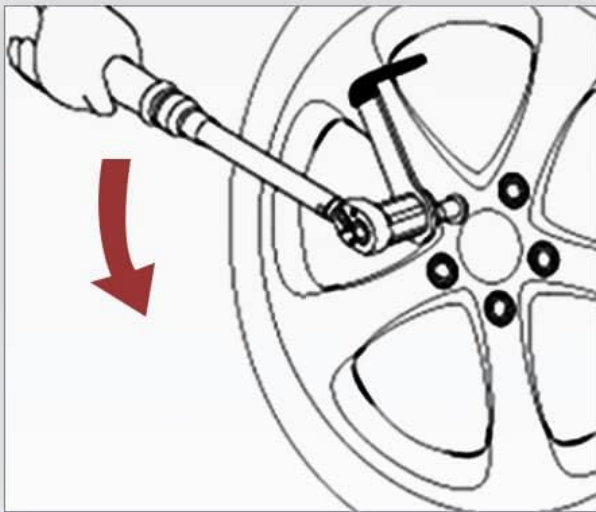


Figure 3.1: Dimensions of the F3220DD Torque Multiplier.

4. SAFETY INSTRUCTIONS

Failure to follow these safety instructions may result in injury or damage to the tool or property.

- Always determine the required torque setting of the fastener before use to prevent overload and potential damage.
- The reaction bar must be positioned firmly against a solid object or surface adjacent to the bolt being tightened or loosened. Ensure it is stable and will not slip.
- **DO NOT** use pneumatic or electric impact tools in conjunction with this torque multiplier. This tool is designed for manual operation only.
- Wear appropriate personal protective equipment, such as safety glasses and gloves, during operation.
- Keep hands and fingers clear of moving parts during operation.



Safety Instruction

- ✓ Determine the required torque setting of fastener before use to avoid the overload causes the damage.
- ✓ The reaction bar must be positioned against a solid object or surface adjacent to the bolt to be tightened or loosened.
- ✓ Do not use pneumatic or electric tool together with the multiplier.

Figure 4.1: Visual representation of safety guidelines.

5. SETUP

Before operating the torque multiplier, ensure proper setup:

1. Select the correct lug nut socket for your application.
2. Attach the chosen socket to the output square (male) of the torque multiplier.
3. Position the torque multiplier onto the lug nut of the tire or fastener.
4. Ensure the movable reaction handle is positioned firmly and stably against a solid surface to prevent rotation of the multiplier body. This is crucial for safe and effective torque transfer.

6. OPERATING INSTRUCTIONS

Follow these steps for effective use of the FIRSTINFO F3220DD Torque Multiplier:

1. After setting up the multiplier as described in Section 5, attach your torque wrench (or standard ratchet) to the input square (female) of the torque multiplier.

2. Apply steady, controlled pressure to the torque wrench handle to loosen or tighten the lug nut. The multiplier will amplify your input force.
3. For tightening, ensure you are using a calibrated torque wrench and apply the appropriate input torque to achieve the desired output torque, considering the 3.4:1 multiplication ratio.
4. Once the desired torque is reached or the fastener is loosened, remove the torque wrench, then the multiplier from the lug nut.



Effort-Saving Work

- ✓ Torque multiplication mechanism makes your job more effort-saving and efficient.
- ✓ Adapted for tire change of car, van & truck in automotive repair industry.



Figure 6.1: Torque multiplier in use on a vehicle wheel.

Your browser does not support the video tag.

Video 6.1: Demonstration of the FIRSTINFO F3220DD Torque Multiplier in action, showcasing its features and ease of use for automotive applications.

7. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your torque multiplier:

- After each use, clean the tool to remove any dirt, grease, or debris.

- Store the torque multiplier in a dry, clean environment to prevent rust and corrosion.
- Regularly inspect the tool for any signs of wear, damage, or loose components. Do not use a damaged tool.
- Lubricate moving parts periodically with a suitable lubricant to ensure smooth operation.

8. TROUBLESHOOTING

If you encounter issues with your torque multiplier, consider the following:

- **Tool not providing expected torque:** Ensure the reaction bar is properly braced against a solid surface. Incorrect bracing can lead to inefficient torque transfer. Verify that the input wrench is functioning correctly.
- **Difficulty fitting onto fastener:** Check that the correct size socket is being used and that the lug nut or fastener is free of obstructions.
- **Unusual noises or resistance:** Stop operation immediately. Inspect the tool for any visible damage or internal issues. Do not force the tool if it encounters excessive resistance.

For persistent issues, contact customer support.

9. WARRANTY AND SUPPORT

The FIRSTINFO F3220DD Torque Multiplier comes with a 12+10 months after-sales warranty (10 months warranty by registration). For warranty claims, technical support, or any inquiries, please refer to the contact information provided with your product packaging or visit the official FIRSTINFO TOOLS website.



Figure 9.1: Warranty information for FIRSTINFO products.

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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.

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