

Proto J6345B

Proto J6345B Dial Electronic Torque Wrench User Manual

Model: J6345B | Range: 10-100 ft-lb

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use, maintenance, and troubleshooting of your Proto J6345B Dial Electronic Torque Wrench. Please read this manual thoroughly before operating the tool to ensure proper function and to prevent injury or damage.

2. SAFETY INFORMATION

Always observe the following safety precautions when using the torque wrench:

- Wear appropriate personal protective equipment (PPE), such as safety glasses, when operating the tool.
- Ensure the workpiece is securely fastened before applying torque.
- Do not exceed the maximum torque capacity of the wrench (100 ft-lb). Over-torquing can damage the tool or the fastener.
- Do not use the wrench as a pry bar or hammer.
- Keep the tool clean and dry. Do not expose it to excessive moisture or extreme temperatures.
- Store the wrench in its protective case when not in use.

3. PRODUCT OVERVIEW

The Proto J6345B is a precision dial electronic torque wrench designed for accurate torque measurement and application. It features an extended operation range and high accuracy for various fastening tasks.



Figure 1: Proto J6345B Dial Electronic Torque Wrench in its red protective case. This image displays the Proto J6345B Dial Electronic Torque Wrench, a precision tool designed for accurate torque application. The wrench features a metallic body with a black handle and a central digital display. It is securely housed within a red, hard-plastic protective case, indicating its robust design and suitability for professional use. The digital display is visible, suggesting electronic measurement capabilities.

Key Components:

- **Drive Head:** For attaching sockets or other accessories.
- **Digital Display:** Shows torque readings and settings.
- **Keypad:** For setting target torque and changing units.
- **Rotary Bezel:** Allows the LCD and keypad to rotate for optimal viewing.
- **Handle:** Ergonomically designed for user comfort and grip.
- **Indicator Lights:** Provide visual feedback on torque application.

4. SETUP

4.1 Battery Installation

The electronic display of the torque wrench operates on a standard 9-volt battery. To install or replace the battery:

1. Locate the battery compartment, typically on the back or side of the digital display unit.
2. Open the compartment cover.
3. Insert a fresh 9-volt battery, ensuring correct polarity.
4. Close the battery compartment cover securely.

4.2 Initial Power On

Press the power button to turn on the wrench. The display will illuminate, and the wrench will perform a self-test. Ensure the display is clear and readable.

5. OPERATING INSTRUCTIONS

5.1 Selecting Measurement Units

The wrench supports extended operation in ft-lb, in-lb, and Nm units. Use the keypad to cycle through and select your desired unit of measurement.

5.2 Setting Target Torque

The Proto J6345B features a one-button target torque setting. Follow these steps:

1. Press the target setting button.
2. Use the adjustment buttons (usually up/down arrows) to set the desired torque value.
3. Confirm the setting, or wait for the display to automatically save the value.

The torque target zone is adjustable from 1% to 10% of the set target, providing an indication as the desired torque limit approaches.

5.3 Applying Torque

1. Attach the appropriate socket or accessory to the drive head.
2. Place the socket onto the fastener.
3. Apply smooth, steady force to the wrench handle. Observe the digital display for real-time torque readings.
4. **Indicator Feedback:**
 - A **yellow light** indicates the low end of the target zone is approaching.
 - A **green light** and an audible buzzer sound when the target torque is reached.
 - A **red light** with an intermittent buzzer indicates an over-torqued condition.
5. Stop applying force immediately when the green light and buzzer activate.

5.4 Reading the Display

The large, easy-to-read digits on the LCD display provide precise torque values. The patented rotary bezel allows the LCD and keypad to rotate up to 359 degrees, ensuring optimal viewing from various angles.

5.5 Accuracy

The Proto J6345B offers precision accuracy of +/- 1% in both clockwise and counter-clockwise directions. This accuracy is valid from 10% to 100% of the full scale (10-100 ft-lb).

6. MAINTENANCE

6.1 Cleaning

Wipe the wrench clean with a soft, dry cloth after each use. Do not use abrasive cleaners or solvents, as these can damage the finish or electronic components.

6.2 Storage

Store the torque wrench in its original protective case in a clean, dry environment. Avoid areas with extreme temperatures or high humidity. For long-term storage, it is recommended to remove the 9-volt battery to prevent leakage.

6.3 Calibration

For continued accuracy, periodic calibration by a qualified service center is recommended. Refer to Proto's official guidelines for recommended calibration intervals.

7. TROUBLESHOOTING

7.1 Display Not Working

- Check the 9-volt battery. Ensure it is correctly installed and has sufficient charge. Replace if necessary.
- Ensure the power button has been pressed firmly.

7.2 Inaccurate Readings

- Verify that the correct measurement unit is selected.
- Ensure the wrench is being used within its specified accuracy range (10% to 100% of full scale).
- Consider professional calibration if accuracy issues persist.

7.3 No Buzzer Sound






- Check battery level.
- Ensure the target torque has been set correctly.

8. SPECIFICATIONS

| Feature | Specification |
|--------------------|---|
| Model Number | J6345B |
| Torque Range | 10-100 ft-lb |
| Accuracy | +/- 1% in both directions (10% to 100% of full scale) |
| Measurement Units | ft-lb, in-lb, Nm |
| Power Source | 9-volt battery (for electronic display) |
| Head Style | Fixed Square |
| Item Weight | 4.3 pounds |
| Product Dimensions | 1 x 1 x 1 inches (approximate) |
| Material | Blend |
| UPC | 662679005788 |

9. WARRANTY AND SUPPORT

Proto products are manufactured to high standards and are backed by a manufacturer's warranty. For specific warranty details, claims, or technical support, please refer to the official Proto website or contact their customer service department. Keep your purchase receipt as proof of ownership.

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|  | <p>PROTO Smart Torque Wrench J6110BT, J6112BT, J6114BT Instruction Manual</p> <p>Comprehensive instruction manual for PROTO Smart Torque Wrenches (Models J6110BT, J6112BT, J6114BT). Covers safety warnings, operating procedures, technical specifications, charging, maintenance, and warranty information.</p> |
|  | <p>Proto SLG™ Ultralite Paintball Marker Owner's Manual</p> <p>Comprehensive owner's manual for the Proto SLG™ Ultralite paintball marker, covering safety instructions, quick start guide, board settings, adjustments, maintenance, troubleshooting, parts list, and warranty information.</p> |
|  | <p>Proto Master Technician Tool Sets Catalog</p> <p>Explore the comprehensive Proto Master Technician Maintenance Sets, featuring extensive collections of sockets, wrenches, pliers, screwdrivers, and more for professional maintenance tasks. Available in various piece counts and configurations.</p> |
|  | <p>Proto & FACOM Electrical Tools Catalog - Insulated Hand Tools for Electricians</p> <p>Explore the comprehensive range of Proto and FACOM insulated electrical tools, including screwdrivers, pliers, wrenches, and socket sets designed for safe work on live circuits up to 1000V AC. Essential safety features and product details for electricians.</p> |
|  | <p>PTSolns Proto-ESP Datasheet and User Guide</p> <p>Detailed datasheet and usage guide for the PTSolns Proto-ESP, a versatile prototyping platform for ESP-based development boards, covering features, specifications, and applications.</p> |