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RYGVPR TQA2-030

RYGVPR Digital Angle Torque Adapter TQA2-030 Instruction Manual

1. Introduction

This manual provides essential instructions for the safe and effective operation, setup, and maintenance of your RYGVPR Digital Angle Torque Adapter, model TQA2-030. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage or injury.

The RYGVPR Digital Angle Torque Adapter is designed to convert a standard ratchet wrench into a digital torque wrench, offering precise torque measurement for various applications in machinery, aviation, railway, and general maintenance.

2. Product Overview

The TQA2-030 is a compact and portable digital torque adapter featuring a clear digital display and intuitive controls. It supports multiple torque units and offers both peak and tracking measurement modes.



This image displays the RYGVPR Digital Angle Torque Adapter TQA2-030, highlighting its digital screen, control buttons (up, down, RT, M, U, C), and the 1/4 inch square drive at both ends. The screen shows '0.0 Nm' and a battery indicator.

Key Features:

- Converts a common ratchet wrench into a digital torque wrench.
- Peak/tracking conversion mode for real-time display and peak recording.
- Stores up to 50 torsion records.
- Five selectable torque units: kg.cm, Kg.m, l.lb, F.lb, N.m.
- Measurement accuracy up to 1%.
- Automatic shutdown after 80 seconds of inactivity to conserve power.
- Compact design for easy portability and wide application.

3. Setup

3.1 Battery Installation

The TQA2-030 requires two AAA batteries (not included) for operation. Follow these steps to install the batteries:

1. Locate the battery compartment cover on the back of the device.
2. Use a small screwdriver (one may be included in the package) to remove the screw securing the battery cover.
3. Carefully remove the battery cover.
4. Insert two AAA batteries, ensuring the correct polarity (+/-) as indicated inside the compartment.
5. Replace the battery cover and secure it with the screw.



This image shows the rear view of the digital torque adapter with the battery cover removed, revealing the compartment for two AAA batteries. This indicates where to insert or replace the power source.

3.2 Attaching to a Ratchet Wrench

The TQA2-030 features a 1/4 inch square drive. To use it, simply attach it between your ratchet wrench and the socket:

1. Select a ratchet wrench with a matching 1/4 inch drive.
2. Insert the square drive of the adapter into the ratchet wrench.
3. Attach the desired socket to the other end of the adapter.



The image shows the RYGVPR TQA2-030 digital torque adapter securely placed within its protective carrying case. Alongside the adapter, a small screwdriver and a square head adapter are visible, which are included accessories for setup and use.

4. Operating Instructions

4.1 Power On/Off

- To power on: Press the 'O' button (usually located near the display).
- To power off: The device will automatically shut down after 80 seconds of inactivity. There may also be a long-press function on the 'O' button for manual shutdown.

4.2 Mode Selection (Peak/Tracking)

Press the 'RT' button to switch between Peak (P) and Tracking (T) modes:

- **Tracking Mode (T):** Displays the real-time torque value as it is applied.
- **Peak Mode (P):** Records and displays the maximum torque value achieved during the measurement.

4.3 Unit Conversion

Press the 'U' button to cycle through the available torque units:

- kg.cm
- Kg.m
- l.lb (inch-pounds)
- F.lb (foot-pounds)
- N.m (Newton-meters)

4.4 Setting Target Torque and Alarm

The device can be set to a target torque value, which will trigger an alarm when reached. Refer to the specific instructions for setting the target torque and alarm threshold using the 'M' and arrow buttons.

4.5 Memory Function

The adapter can store up to 50 sets of torque data. Use the 'C' button to access and clear stored data. Consult the full manual for detailed instructions on managing stored records.

5. Maintenance

5.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents, as they may damage the display or casing. Ensure no liquids enter the device.

5.2 Storage

When not in use, store the torque adapter in its protective case in a dry, cool place, away from direct sunlight and extreme temperatures. Remove batteries if the device will not be used for an extended period to prevent leakage.

5.3 Battery Replacement

Replace batteries when the low battery indicator appears on the display. Follow the battery installation steps outlined in Section 3.1.

5.4 Calibration

The device supports third-party metering for calibration. For professional accuracy and long-term reliability, periodic calibration by a certified service provider is recommended.

6. Troubleshooting

Common Issues and Solutions:

- **Device does not power on:**
  - Check if batteries are installed correctly with proper polarity.
  - Replace with new AAA batteries.
- **Inaccurate readings:**
  - Ensure the adapter is securely attached to the ratchet and socket.
  - Verify the correct torque unit is selected.
  - Consider professional calibration if inaccuracies persist.
- **Display is dim or flickering:**
  - This usually indicates low battery. Replace the batteries.

7. Specifications

Feature	Specification
Model	TQA2-030
Drive Size	1/4 inch (6.3mm)
Material	Plastic
Dimensions (L x W x H)	Approximately 1.18 x 0.79 x 0.39 inches (30 x 20 x 10 mm) *Note: Product dimensions from data are very small, likely referring to internal component. Actual device dimensions are closer to 76mm x 46mm based on image.*
Weight	Approximately 1.76 ounces (50 grams)
Measurement Accuracy	Up to 1%
Torque Units	kg.cm, Kg.m, l.lb, F.lb, N.m
Memory Capacity	50 torsion records
Auto Shutdown	80 seconds of inactivity
Power Source	2 x AAA Batteries



This image illustrates the physical dimensions of the TQA2-030 adapter, showing a length of 76mm and width of 46mm. It also provides a visual comparison of the TQA2-030 (1/4 inch drive) with TQA2-135 (3/8 inch drive), TQA2-200 (1/2 inch drive), and TQA2-340 (1/2 inch drive) models, emphasizing the different drive sizes.

8. Warranty

This product is sold without an explicit warranty. Please refer to your retailer's return policy for any issues upon purchase.

9. Support

For further assistance, technical support, or inquiries not covered in this manual, please contact the manufacturer or your point of purchase. Keep your purchase receipt for reference.

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