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› ACDelco ARM302-4S 1/2 Inch Digital Torque Wrench User Manual

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Model: ARM302-4S

1. INTRODUCTION

The ACDelco ARM302-4S is a 1/2 inch digital torque wrench adapter designed for precise torque measurement. This tool provides real-time torque values and operates in both clockwise and counterclockwise directions, making it suitable for a wide range of professional, automotive, and industrial applications. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your digital torque wrench adapter.

2. SAFETY INFORMATION

Always adhere to the following safety guidelines to prevent injury and damage to the tool or workpiece:

- **Wear Eye Protection:** Always wear ANSI-approved safety glasses when operating any tools.
- **Secure Workpiece:** Ensure the item being worked on is stable and securely fastened to prevent movement during torque application.
- **Do Not Exceed Capacity:** Never exceed the specified maximum torque range of the ARM302-4S (250.7 ft-lbs). Over-torquing can damage the fastener, the tool, or the workpiece.
- **Keep Dry:** Protect the tool from moisture and extreme temperatures.
- **Proper Storage:** Store the tool in its protective case in a clean, dry place when not in use.
- **Battery Safety:** Follow proper battery handling and replacement procedures. Do not mix old and new batteries or different types of batteries.

3. PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- ACDelco ARM302-4S Digital Torque Adapter
- Metal Storage Case
- Calibration Certification
- User Manual (this document)
- 2x CR2032 Coin Batteries (pre-installed or included separately)



Image: The ARM302-4S digital torque adapter shown within its protective metal storage case.

4. PRODUCT FEATURES

The ARM302-4S digital torque wrench adapter offers the following key features:

- **Static Torque Measurement:** Provides accurate readings of applied torque.
- **Multiple Functions:** Includes torque setting, measurement setting, and mode setting capabilities.
- **Bi-directional Operation:** Functions effectively in both clockwise and counterclockwise directions.
- **LCD Display:** Clear digital display shows measurements in kg-cm, N-m, in-lbs., and ft-lbs.
- **High Accuracy:** Guaranteed accuracy range of $\pm 1.5\%$ clockwise and $\pm 2.5\%$ counterclockwise of indicated value, from 20% to 100% of full scale.
- **Audible & Visual Notification:** Features an audible buzzer and LED flash for torque confirmation.
- **Compact Design:** Lightweight and heavy-duty construction, ideal for various working environments.



Image: A close-up view of the ARM302-4S display, showing a digital torque reading and control buttons.

5. SETUP

5.1 Battery Installation

The ARM302-4S uses two CR2032 coin batteries. If the display does not power on or is dim, replace the batteries:

1. Locate the battery compartment cover on the back of the unit.
2. Use a small screwdriver or coin to open the cover.
3. Remove the old batteries and insert two new CR2032 batteries, ensuring correct polarity (+/-).
4. Replace the battery compartment cover securely.

5.2 Attaching to a Drive Tool

The ARM302-4S is a 1/2 inch drive adapter. It can be used with any standard 1/2 inch drive ratchet or breaker bar.

1. Insert the square drive of your ratchet or breaker bar into the 1/2 inch female drive opening of the torque adapter.
2. Attach the appropriate socket or fastener to the 1/2 inch male drive of the torque adapter.
3. Ensure all connections are secure before use.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

- To power on, press the 'C/S' button.
- The unit will automatically power off after a period of inactivity to conserve battery life.

6.2 Unit Selection

Press the 'U/S' button to cycle through the available measurement units: kg-cm, N-m, in-lbs., and ft-lbs.

6.3 Setting Target Torque

To set a target torque value:

1. Press the 'M' button to enter setting mode.
2. Use the '▲' (up) and '▼' (down) buttons to adjust the target torque value.
3. Press the 'M' button again to confirm and exit setting mode.

6.4 Applying Torque

Once the target torque is set and the adapter is attached to your drive tool and fastener:

1. Apply steady, smooth force to the drive tool.
2. The LCD display will show the real-time torque being applied.
3. As you approach the target torque, the unit will emit an audible buzzer and an LED flash will activate, indicating that the target torque has been reached.
4. Stop applying force immediately once the notification occurs to avoid over-torquing.



Image: The ARM302-4S in use, attached to a ratchet, applying torque to a component.

7. MAINTENANCE

7.1 Cleaning and Storage

- Wipe the tool clean with a soft, dry cloth after each use. Do not use solvents or abrasive cleaners.
- Store the ARM302-4S in its metal case in a dry environment, away from direct sunlight and extreme temperatures.

7.2 Battery Replacement

Refer to Section 5.1 for detailed battery replacement instructions.

7.3 Calibration

The ARM302-4S is factory calibrated to ISO 6789 standards and includes a certificate of calibration. For continued accuracy, periodic re-calibration by a qualified service center is recommended, especially after heavy use or if accuracy is suspected to be compromised.

8. TROUBLESHOOTING

If you encounter issues with your ARM302-4S, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display is blank or dim	Low or dead batteries	Replace the two CR2032 batteries (see Section 5.1).
Inaccurate torque readings	Tool needs re-calibration; improper use; damaged tool	Ensure proper technique. If issue persists, contact customer support for re-calibration or service.
Buzzer or LED not activating	Target torque not set; unit malfunction	Verify target torque is set correctly (Section 6.3). If still not working, contact customer support.

9. SPECIFICATIONS

Key technical specifications for the ACDelco ARM302-4S:

- **Model Number:** ARM302-4S
- **Head Size:** 1/2 inch
- **Torque Range:** 12.5 to 250.7 ft-lbs. (17 to 340 N-m)
- **Accuracy:** $\pm 1.5\%$ CW, $\pm 2.5\%$ CCW (from 20% to 100% of full scale)
- **Measurement Units:** kg-cm, N-m, in-lbs., ft-lbs.
- **Tool Weight:** 1.1 lbs. (0.50 kg)
- **Material:** Alloy Steel
- **Operation Mode:** Battery-powered
- **Battery Type:** 2x CR2032 Coin Batteries
- **Manufacturer:** Durofix, Inc.

10. WARRANTY AND SUPPORT

10.1 Limited Warranty

The ACDelco ARM302-4S Digital Torque Wrench Adapter is covered by a **1 Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, abuse, alteration, or unauthorized repair.

10.2 Customer Support

For warranty claims, technical assistance, or any questions regarding the operation or maintenance of your ACDelco ARM302-4S, please contact ACDelco customer support. Refer to the ACDelco official website or your purchase documentation for contact information.

ASK A QUESTION ABOUT THIS MANUAL

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