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Cardone 40-215

Cardone A1 40-215 Remanufactured Wiper Motor Instruction Manual

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Cardone A1 40-215 Remanufactured Wiper Motor. Please read this document thoroughly before attempting any procedures to ensure safe and correct usage. This product is designed to restore windshield wiper functionality in compatible vehicles.

2. Safety Information

Always observe the following safety precautions when working with automotive components:

- **Disconnect Vehicle Battery:** Before beginning any installation or maintenance, disconnect the vehicle's negative battery terminal to prevent electrical shock or damage to the vehicle's electrical system.
- **Wear Protective Gear:** Always wear appropriate personal protective equipment, including safety glasses and gloves.
- **Consult a Professional:** If you are unsure about any step of the installation or troubleshooting process, it is recommended to consult a qualified automotive technician.
- **Secure Vehicle:** Ensure the vehicle is parked on a level surface with the parking brake engaged.

3. Product Overview

The Cardone A1 40-215 is a remanufactured wiper motor engineered to meet or exceed original equipment manufacturer (OEM) performance standards. Key features include:

- **Enhanced Durability:** Mechanically anchored connectors, achieved through thru-hole soldering, result in stronger and more durable electrical connections.
- **Rigorous Testing:** Each unit undergoes 100% testing at three critical stages of the remanufacturing process to ensure reliable performance.
- **Quiet Operation:** Motors are assembled with a precise amount of lubricant to promote quiet operation and extended service life.
- **Optimized Performance:** Motor magnets are 100% recharged to ensure superior performance and reliability.
- **Guaranteed Fit:** Designed for guaranteed fit and function in compatible applications.

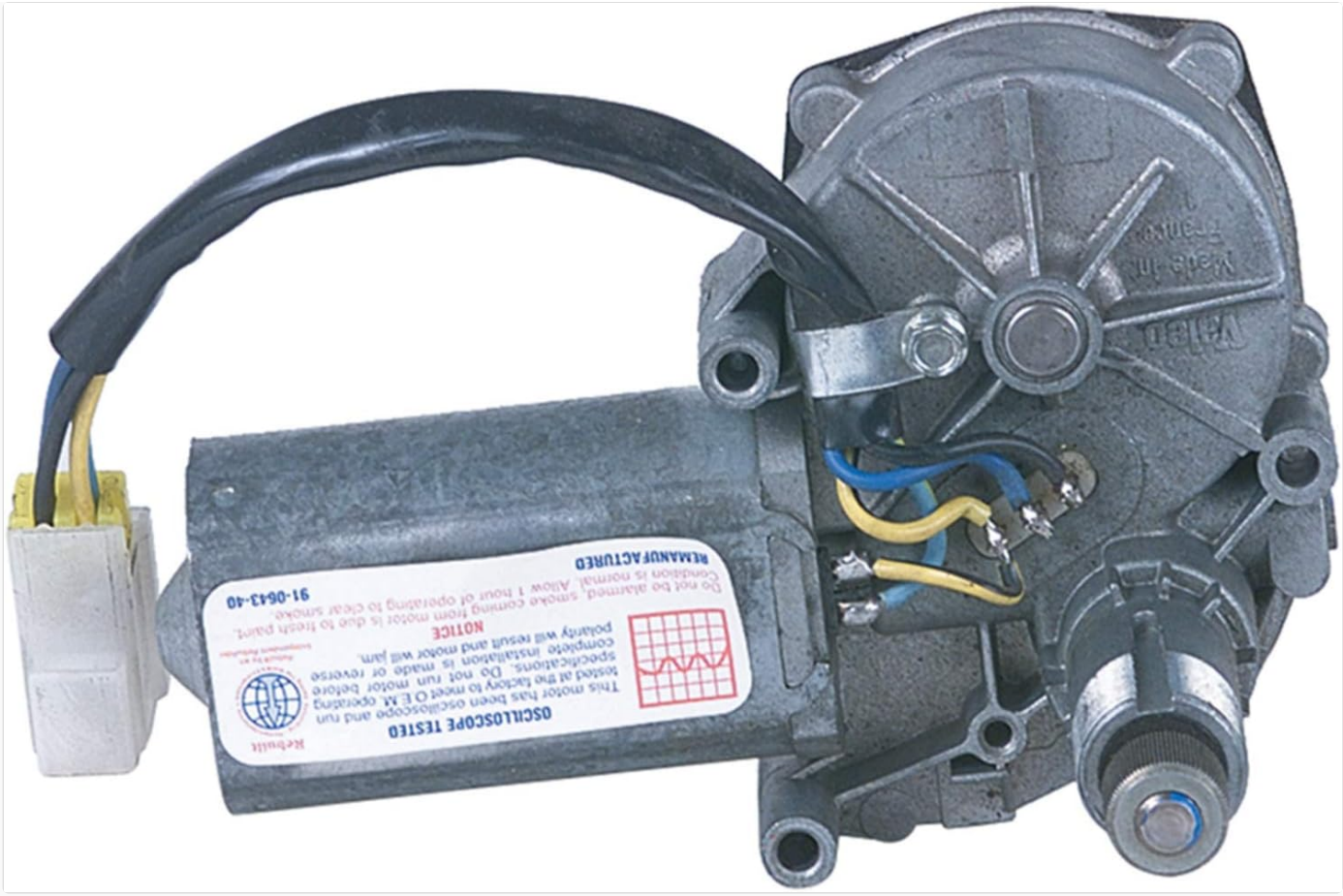


Figure 3.1: Front view of the Cardone A1 40-215 Remanufactured Wiper Motor. This image displays the motor's main housing, the attached electrical wiring harness with its connector, and the output shaft where the wiper linkage connects.

4. Setup and Installation

Installation of automotive components requires mechanical knowledge and specialized tools. If you are not experienced with automotive repairs, it is strongly recommended to seek professional assistance for installation.

4.1. General Installation Steps (Consult Vehicle Service Manual for Specifics)

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and disconnect the negative battery terminal.
2. **Access Wiper Motor:** Locate and access the existing wiper motor. This typically involves removing trim panels, cowl covers, or other components depending on the vehicle make and model.
3. **Disconnect Old Motor:** Disconnect the electrical connector and any linkage rods attached to the old wiper motor. Remove the mounting bolts securing the old motor.
4. **Remove Old Motor:** Carefully remove the old wiper motor from its mounting location.
5. **Install New Motor:** Position the Cardone A1 40-215 Remanufactured Wiper Motor in the mounting location. Secure it with the appropriate mounting bolts, ensuring they are tightened to the vehicle manufacturer's specifications.
6. **Connect Linkage:** Reattach the wiper linkage rods to the new motor's output shaft. Ensure the linkage is correctly aligned and secured.
7. **Connect Electrical:** Connect the vehicle's electrical harness to the new wiper motor's connector. Ensure a secure and proper connection.
8. **Reassemble:** Reinstall any removed trim panels, cowl covers, or other components.
9. **Reconnect Battery:** Reconnect the negative battery terminal.

10. **Test Functionality:** Test the wiper system thoroughly to ensure proper operation at all speeds and settings.

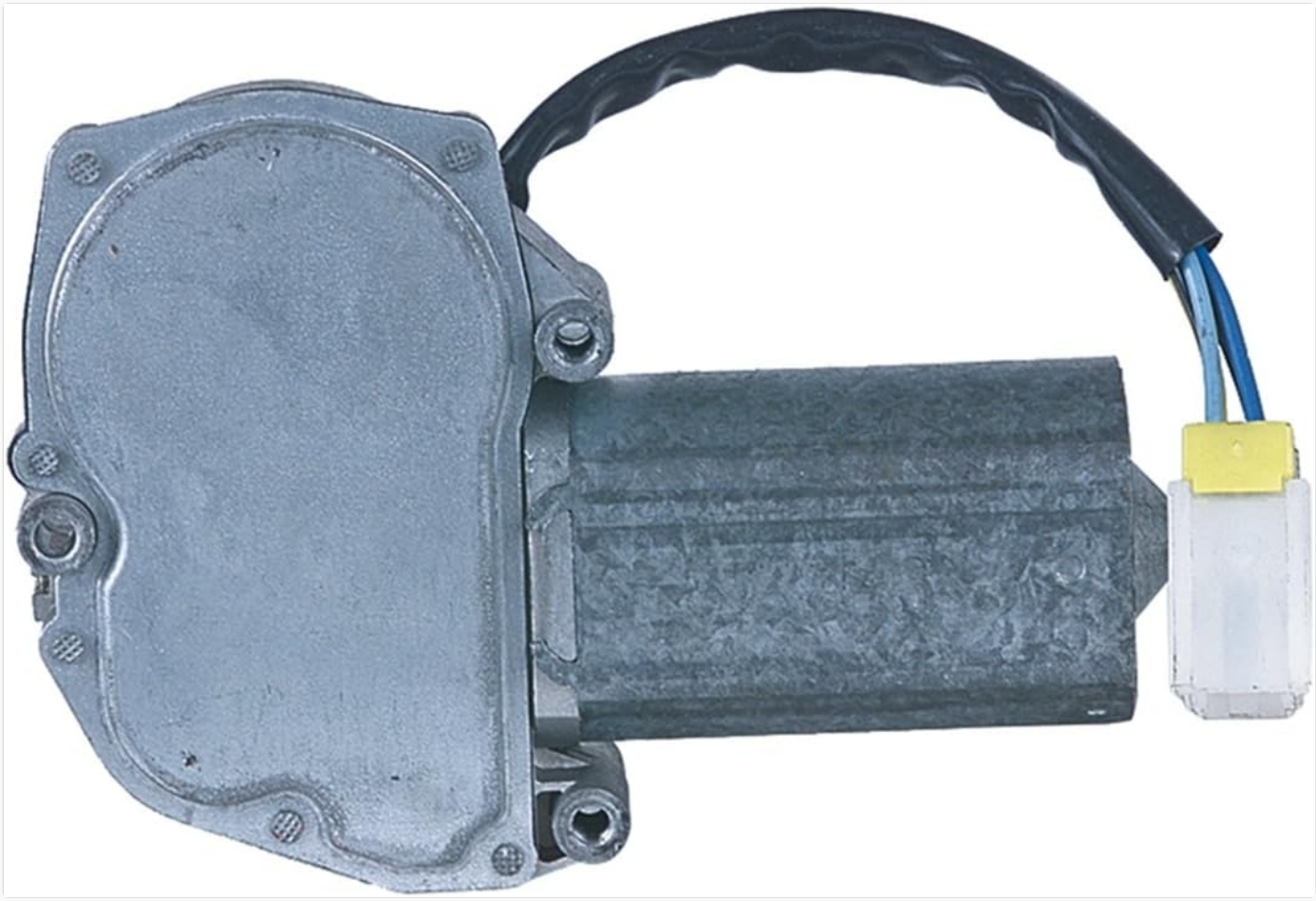


Figure 4.1: Rear view of the wiper motor, illustrating the various mounting points and the overall shape of the motor housing.

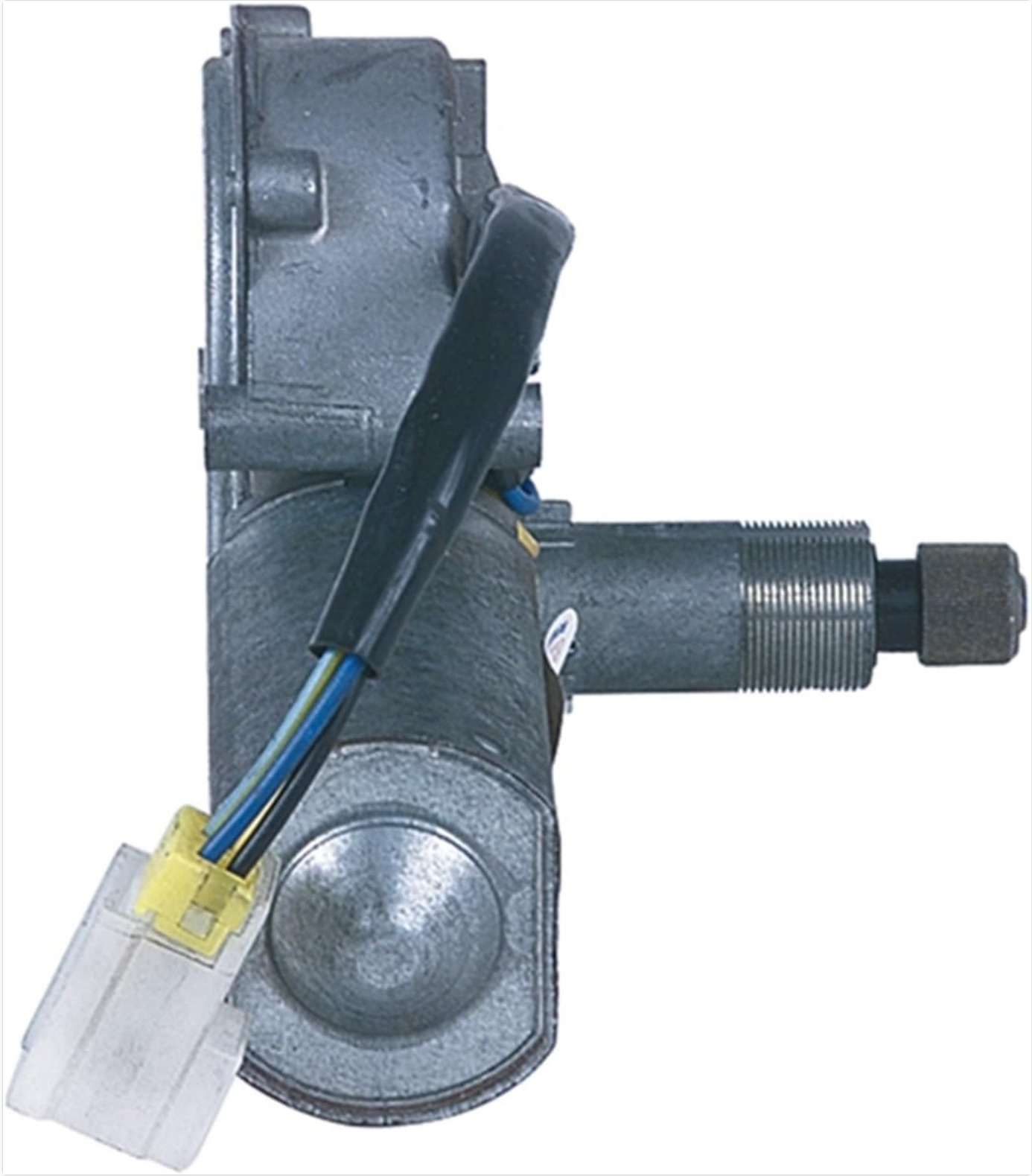


Figure 4.2: Side view of the wiper motor, highlighting the output shaft where the wiper linkage attaches and the integrated mounting bracket.

5. Operating Instructions

The Cardone A1 40-215 Remanufactured Wiper Motor functions as a direct replacement for your vehicle's original wiper motor. Once correctly installed, its operation is controlled entirely by your vehicle's existing windshield wiper switch and control system. Refer to your vehicle's owner's manual for specific instructions on how to operate the windshield wipers, including speed settings, intermittent functions, and washer fluid activation.

6. Maintenance

The Cardone A1 40-215 wiper motor is a sealed unit and does not require internal maintenance or lubrication. To ensure optimal performance and longevity of the wiper system, consider the following:

- **Wiper Blade Inspection:** Regularly inspect wiper blades for wear, cracking, or hardening. Replace blades as needed, typically every 6-12 months, to maintain clear visibility and reduce strain on the motor.
- **Wiper Linkage Check:** Periodically check the wiper linkage for any signs of looseness, corrosion, or damage. Ensure all pivot points move freely.
- **Clear Windshield:** Keep the windshield clean and free of heavy ice or snow before operating wipers to prevent excessive load on the motor.

7. Troubleshooting

If your windshield wipers are not functioning correctly after installing the Cardone A1 40-215 motor, consider the following troubleshooting steps:

- **No Wiper Movement:**
  - Check the vehicle's fuse box for a blown fuse related to the windshield wipers. Replace if necessary.
  - Verify that the electrical connector to the wiper motor is securely attached and free of corrosion.
  - Ensure the vehicle's wiper switch is functioning correctly.
- **Slow or Intermittent Wiper Movement:**
  - Inspect the wiper linkage for any obstructions, binding, or excessive friction.
  - Check for proper voltage supply to the motor. Low voltage can cause slow operation.
  - Ensure wiper blades are not excessively worn or creating too much drag on the windshield.
- **Wipers Not Parking Correctly:**
  - This can indicate an issue with the motor's internal park switch or improper linkage adjustment. Consult a professional.

If these steps do not resolve the issue, it is advisable to consult a qualified automotive technician for further diagnosis.

8. Specifications

Specification	Detail
Brand	Cardone
Manufacturer	A1 Cardone
Model Number	40-215
Item Weight	2.95 pounds
Product Dimensions	7.88 x 5.63 x 5.75 inches
Part Type	Remanufactured Wiper Motor

9. Warranty and Support

The Cardone A1 40-215 Remanufactured Wiper Motor is designed for guaranteed fit and function. For detailed information regarding the product warranty, return policies, or technical support, please refer to the official documentation provided with your purchase or visit the Cardone website. Keep your purchase receipt for warranty claims.

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