

Marinco 82082

Marinco 82082 Wiper Motor User Manual

Model: 82082 | 2.5 Series, 12V, 2.5" Shaft, 80 Degree

1. INTRODUCTION

Thank you for choosing the Marinco 82082 Wiper Motor. This manual provides essential information for the proper installation, operation, and maintenance of your new marine wiper motor. Please read these instructions thoroughly before installation and use to ensure optimal performance and safety.

The Marinco 2.5 Series wiper motor is engineered for marine environments, featuring a fully sealed, powder-coated aluminum waterproof base and housing. It is designed to power a 26-inch deluxe arm and blade combination or a 24-inch premier arm and blade combination.

2. SAFETY INFORMATION

- **Electrical Safety:** Ensure all power is disconnected before attempting any installation or maintenance. Incorrect wiring can lead to electrical shock, fire, or damage to the motor and vessel's electrical system.
- **Professional Installation:** If you are not familiar with marine electrical systems, it is highly recommended to have the wiper motor installed by a qualified marine technician.
- **Secure Mounting:** The motor must be securely mounted to prevent vibration and ensure proper operation. Loose mounting can lead to damage or failure.
- **Correct Components:** Use only wiper arms and blades compatible with the 2.5 Series motor as specified by Marinco.

3. SPECIFICATIONS

Model Number	82082
Brand	Marinco
Series	2.5 Series
Voltage	12V DC
Shaft Length	2.5 inches

Sweep Angle	80 Degrees
Housing Material	Fully sealed powder-coated aluminum waterproof base and housing
Compatible Arm/Blade	26" Deluxe Arm/Blade or 24" Premier Arm/Blade
Item Weight	3.25 Pounds (approx. 1.47 kg)
Package Weight	2.67 Kilograms (approx. 5.89 lbs)
Manufacturer	Marinco Electrical Group

4. SETUP AND INSTALLATION

Proper installation is crucial for the longevity and performance of your Marinco wiper motor. Refer to the detailed wiring diagram provided with your product packaging for specific connections.

4.1 Mounting the Wiper Motor

- Select Location:** Choose a mounting location that allows for the desired sweep angle and provides sufficient clearance for the motor and wiper arm assembly. Ensure the surface is flat and sturdy.
- Drill Holes:** Mark and drill appropriate mounting holes and a hole for the wiper shaft, following the template if provided with the product.
- Secure Motor:** Mount the wiper motor securely using marine-grade fasteners. Apply marine sealant around the shaft and mounting holes to prevent water intrusion.

4.2 Electrical Connections

- Power Source:** Connect the motor to a 12V DC power source. Ensure the circuit is protected by an appropriately sized fuse or circuit breaker.
- Wiring Diagram:** Follow the specific wiring diagram included with your motor for positive, negative, and switch connections. Incorrect wiring can damage the motor.
- Waterproof Connections:** Use marine-grade, waterproof connectors and heat shrink tubing for all electrical connections to prevent corrosion and short circuits.

4.3 Attaching Wiper Arm and Blade

- Install Arm:** Attach the compatible wiper arm (26" deluxe or 24" premier) to the motor shaft according to the arm's instructions. Ensure it is securely fastened.
- Install Blade:** Attach the corresponding wiper blade to the arm.
- Test Sweep:** Before final tightening, manually move the arm to ensure it does not hit any obstructions within its sweep path. Adjust the arm position on the shaft if necessary.



Image 1: Top and bottom view of the Marinc 82082 Wiper Motor. The top view shows the sealed, powder-coated aluminum housing. The bottom view reveals the wiring connections for power and control, along with the shaft for the wiper arm.

5. OPERATING INSTRUCTIONS

Once installed, the Marinc 82082 Wiper Motor operates via a compatible marine wiper switch (not included). The switch typically controls the motor's on/off function and speed settings (if applicable).

- **Power On:** Activate the wiper switch to the desired setting (e.g., low, high, intermittent).
- **Power Off:** Turn the wiper switch to the 'off' position. The motor is designed to return the wiper arm to its park position automatically.
- **Intermittent Settings:** If your switch supports intermittent operation, refer to the switch's manual for specific timing adjustments.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your wiper motor.

- **Wiper Blades:** Inspect wiper blades regularly for wear, cracking, or hardening. Replace blades at least annually, or more frequently in harsh marine environments, to ensure effective clearing of the windshield.
- **Cleaning:** Keep the wiper arm, blade, and the visible part of the motor housing clean. Use fresh water and a mild soap solution. Avoid abrasive cleaners or solvents.
- **Connections:** Periodically check all electrical connections for corrosion or looseness. Clean and re-secure as necessary.
- **Mounting:** Verify that the motor remains securely mounted and that there is no water ingress around the mounting points.

7. TROUBLESHOOTING

If you encounter issues with your Maringo 82082 Wiper Motor, consult the following troubleshooting guide:

Problem	Possible Cause	Solution
Motor does not operate	No power to motor, blown fuse/tripped breaker, faulty switch, loose wiring connection.	Check power supply, inspect fuse/breaker, test switch, verify all wiring connections are secure.
Wiper arm moves slowly or stalls	Low voltage, excessive friction (e.g., dry windshield, worn blade), obstruction, internal motor issue.	Check battery voltage, ensure windshield is wet, replace wiper blade, inspect for obstructions, contact support if motor issue is suspected.
Wiper arm does not park correctly	Faulty park mechanism, incorrect wiring.	Verify wiring according to diagram. If issue persists, motor may require service.
Excessive noise during operation	Loose mounting, worn components, dry operation.	Check motor mounting. Ensure windshield is wet. Inspect wiper arm and blade for wear.

If troubleshooting steps do not resolve the issue, please contact Maringo customer support or a qualified marine technician.

8. WARRANTY AND SUPPORT

The Maringo 82082 Wiper Motor is covered by a manufacturer's warranty. For detailed information regarding warranty terms, conditions, and duration, please refer to the warranty documentation included with your product or visit the official Maringo website.

For technical assistance, replacement parts, or further inquiries, please contact Maringo customer support through their official website or the contact information provided in your product packaging.