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› YBLKY 12V Windshield Wiper Motor Instruction Manual (Models 30991, 34010, 4R2.12.R110D, WWF12C18 Series)

## YBLKY 30991, 34010, 4R2.12.R110D, WWF12C18 Series

# YBLKY 12V Windshield Wiper Motor Instruction Manual

Models: 30991, 34010, 4R2.12.R110D, WWF12C18 Series

## 1. INTRODUCTION

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This manual provides essential information for the installation, operation, and maintenance of your YBLKY 12V Windshield Wiper Motor. This motor is designed for various applications, including MRV, automotive, boat, and car windshield wiper systems. It serves as a direct replacement for part numbers 30991, 34010, 4R2.12.R110D, and WWF12C18 Series.

The YBLKY wiper motor features a robust design with a high-quality metal casing for corrosion and impact resistance, and wear-resistant internal components to ensure long-term operational stability, even in severe weather conditions.



**Figure 1:** Overview of the YBLKY 12V Windshield Wiper Motor. This image displays the main unit with its black casing, integrated mounting bracket, and electrical wiring connections.

## 2. SETUP AND INSTALLATION

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Proper installation is crucial for the safe and effective operation of the windshield wiper motor. If you are uncertain about any steps, it is recommended to consult a professional technician.

1. **Safety First:** Before beginning any installation, ensure the vehicle or vessel's power supply is completely disconnected to prevent electrical shock or damage.
2. **Remove Old Motor:** Carefully remove the existing wiper arm and then the old wiper motor. Keep all original fixing screws and gaskets, as they may be needed for the new installation.
3. **Install New Motor:** Position the new YBLKY wiper motor in the designated location. Secure it using the appropriate fixing screws and gaskets.
4. **Wiring Connections:** The motor is equipped with four wires, each with a specific function. Connect them according to the wiring diagram provided below. Ensure all connections are secure and properly insulated.



**Figure 2:** Wiring connections for the YBLKY Wiper Motor. The image shows four labeled terminals: **1: Self Park**, **2: Slow Speed**, **3: High Speed**, and **G: Power (-)**. The 'Self Park' function activates when power is off.

#### Wiring Key:

- **1: Self Park** - Connect to the self-parking circuit.
  - **2: Slow Speed** - Connect to the slow-speed wiper control.
  - **3: High Speed** - Connect to the high-speed wiper control.
  - **G: Power (-)** - Connect to the negative power supply (ground).
5. **Reattach Wiper Arm:** Once the motor is securely installed and wired, reattach the wiper arm. Ensure it is positioned correctly for optimal sweep coverage.
  6. **Test Functionality:** Reconnect the power supply and test the wiper motor's functionality at both slow and high speeds, and verify the self-parking feature.

### 3. OPERATING INSTRUCTIONS

The YBLKY 12V Windshield Wiper Motor is designed for reliable operation and features an adjustable sweep angle to suit various conditions and preferences.

- **Voltage:** The motor operates on a 12V power supply.
- **Sweep Angle Adjustment:** The sweep angle can be adjusted to 40°, 50°, 60°, 70°, 80°, 90°, 100°, or 110°. The factory default setting is 110°, which is suitable for most applications. Refer to the product diagram for the adjustment mechanism. Adjusting the sweep angle allows you to optimize visibility in different weather conditions.
- **Speed Control:** The motor supports both slow and high-speed operation, controlled via your vehicle's or vessel's standard wiper switch.
- **Self-Parking:** The motor includes a self-parking feature, ensuring the wiper blades return to their resting position when the power is turned off.

## Easily adjustable sweep angle

40° to 110° (40°/50°/60°/70°/80°/90°/ 100°/ 110° )  
Voltage Available: In 12v & 24v

### Replacement Part Number:

- 34010
- 30991
- 4R2.12.R110D
- WWF12C18 Series



**Figure 3:** Illustration highlighting the adjustable sweep angle feature of the wiper motor, ranging from 40° to 110°. The image also lists compatible replacement part numbers: 34010, 30991, 4R2.12.R110D, and WWF12C18 Series.

## 4. MAINTENANCE

The YBLKY Windshield Wiper Motor is designed for durability and requires minimal maintenance. However, regular checks can extend its lifespan and ensure optimal performance.

- **Regular Inspection:** Periodically inspect the motor and its connections for any signs of wear, corrosion, or

loose wiring.

- **Cleanliness:** Keep the motor area free from excessive dirt, debris, and moisture.
- **Wiper Blades:** Ensure your wiper blades are in good condition. Worn-out blades can put unnecessary strain on the motor.
- **Lubrication:** The internal components are designed for long-term operation. Avoid applying external lubricants unless specifically recommended by a professional for a particular issue.

## 5. TROUBLESHOOTING

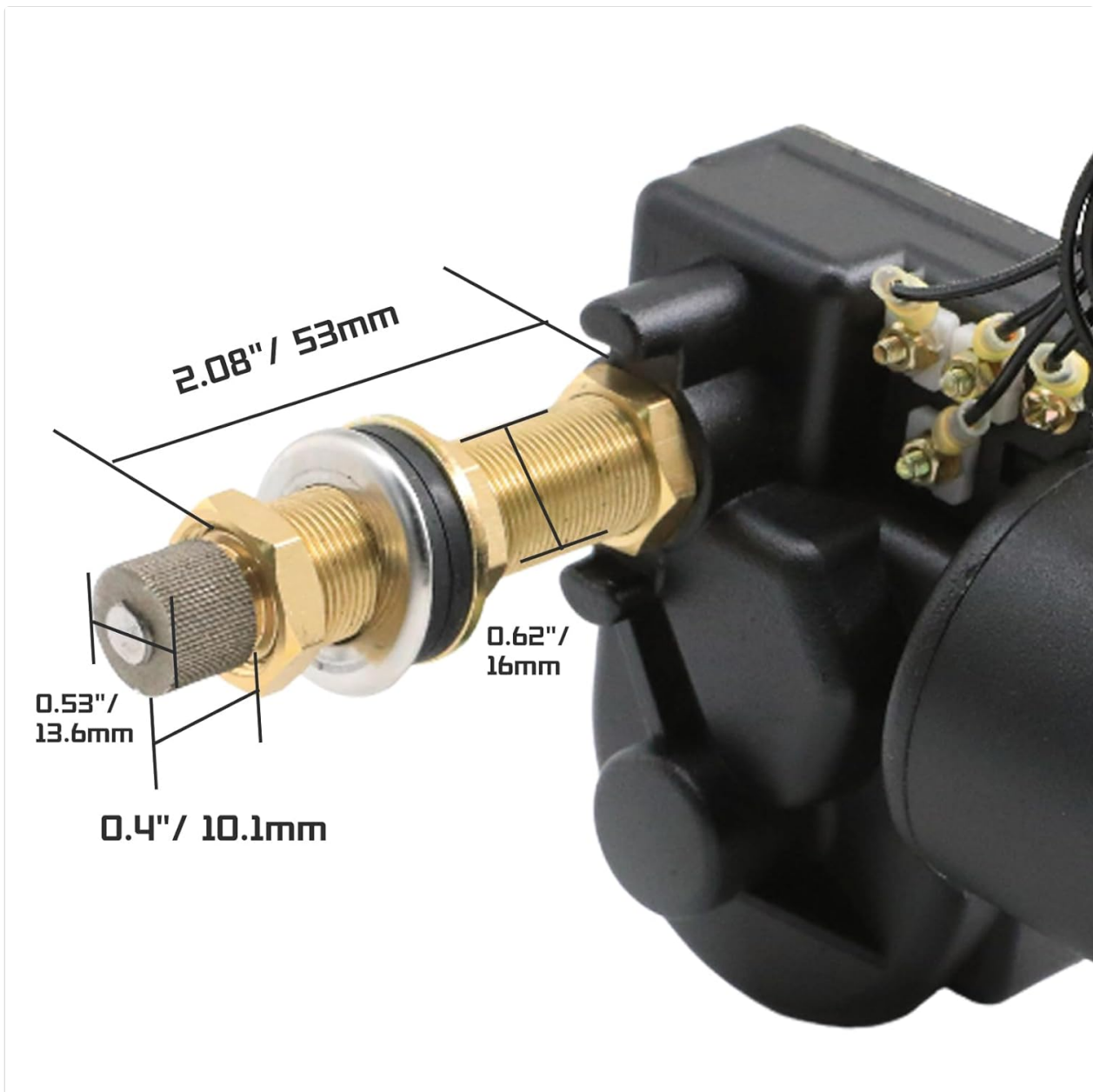
If you encounter issues with your YBLKY Windshield Wiper Motor, consider the following troubleshooting steps:

- **Motor Not Operating:**
  - Check the power supply to ensure it is connected and providing 12V.
  - Verify all wiring connections are secure and correctly matched according to the wiring diagram (Figure 2).
  - Inspect for any blown fuses in the wiper circuit.
- **Wipers Moving Slowly or Intermittently:**
  - Check for any obstructions on the windshield or wiper arms that might be impeding movement.
  - Ensure the wiper blades are not excessively worn or stiff, which can increase motor load.
  - Verify the power supply is stable and not experiencing voltage drops.
- **Wipers Not Parking Correctly:**
  - Check the connection to the 'Self Park' wire (Wire 1).
  - Ensure the motor is correctly installed and not misaligned.

If these steps do not resolve the issue, it is advisable to seek assistance from a qualified automotive or marine technician.

## 6. SPECIFICATIONS

Feature	Specification
Brand	YBLKY
Voltage	12V
Adjustable Sweep Angle	40°/50°/60°/70°/80°/90°/100°/110°
Factory Sweep Angle	110°
Material	High-quality metal casing, wear-resistant metal interior
Replacement Part Numbers	30991, 34010, 4R2.12.R110D, WWF12C18 Series
Package Dimensions	8.7 x 5.52 x 5.52 inches
Item Weight	3.4 Pounds
Contents	1x Boat Wiper Motor



**Figure 4:** Detailed dimensions of the wiper motor's shaft and mounting components. Key measurements include 2.08"/53mm overall shaft length, 0.62"/16mm threaded section, 0.53"/13.6mm shaft diameter, and 0.4"/10.1mm for the end cap.

## 7. WARRANTY INFORMATION

Specific warranty details for the YBLKY 12V Windshield Wiper Motor are not provided in this manual. For information regarding warranty coverage, terms, and conditions, please refer to the product packaging or contact YBLKY customer support directly.

## 8. CUSTOMER SUPPORT

Should you have any questions, require further assistance with installation, operation, or troubleshooting, or need to inquire about warranty services, please do not hesitate to contact YBLKY customer support. We are committed to providing you with the best possible assistance.

Contact information can typically be found on the product packaging or the official YBLKY website.

