**Maxxima MWL-42**

# Maxxima MWL-42 Rectangular 16 LED Work Light Instruction Manual

## 1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your Maxxima MWL-42 Rectangular 16 LED Work Light. Please read these instructions thoroughly before use to ensure proper function and safety.

The Maxxima MWL-42 is a rectangular 16 LED work light designed for various work and utility applications. It features a wide flood beam pattern, delivering 2100 lumens of bright illumination. The unit is constructed with a durable powder-coated aluminum housing, a shatter-proof polycarbonate lens, and includes a robust stainless steel mounting bracket and bolt. It supports dual auto-select 12/24VDC voltage for versatile compatibility.

## 2. SAFETY INFORMATION

- **Electrical Safety:** Ensure the vehicle's power is disconnected before attempting any installation or wiring. Improper installation may result in electrical shock, short circuits, or damage to the product or vehicle's electrical system.

- **Light Intensity:** Do not stare directly into the light when it is operating. The high intensity of the LEDs may cause eye strain or temporary vision impairment.

- **Mounting Security:** Securely mount the light to prevent detachment during vehicle operation, especially in rough terrain or high-vibration environments. Use appropriate hardware and ensure the mounting surface can adequately support the light's weight.

- **Operating Temperature:** The light's housing may become warm during extended operation. Avoid touching the housing directly after prolonged use.

- **Environmental Protection:** This product is designed for outdoor use. However, avoid submerging the light in water.

## 3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- 1 x Maxxima MWL-42 Rectangular 16 LED Work Light
- 1 x Stainless Steel Mounting Bracket
- Mounting Hardware (bolt, nuts, washers)

## 4. PRODUCT FEATURES

- Provides a wide flood beam pattern for work and utility applications.
- High brightness: 2100 Lumens of light output.
- Durable powder-coated aluminum housing.
- Shatter-proof Polycarbonate lens.
- Dual auto-select voltage: 12/24VDC compatibility.
- Low amperage draw: 2.4A at 12V, 1.2A at 24V.
- Equipped with 2 blunt cut 11-inch jacketed leads for wiring.
- Robust 5/16-inch Stainless Steel bolt and bracket for mounting.

## 5. SETUP AND INSTALLATION

### Tools Required:

- Wrench (for mounting hardware)
- Wire Strippers
- Crimping Tool (if using crimp connectors)
- Drill (if new mounting holes are required)
- Voltmeter (recommended for verifying power)

### Mounting Location:

Select a stable and secure location on your vehicle or equipment that provides optimal illumination for your intended application. Ensure the mounting surface is strong enough to support the weight of the light and withstand operational vibrations.

### Mounting Steps:

1. Attach the stainless steel mounting bracket to the light using the provided hardware. Ensure all bolts are snug but do not overtighten.
2. Position the light and bracket assembly on the desired mounting surface. Mark the locations for any necessary drilling.
3. Drill pilot holes if required, then securely fasten the light assembly to the mounting surface using the 5/16-inch stainless steel bolt and bracket.
4. Adjust the angle of the light for optimal beam direction. Tighten the bracket bolts to secure the chosen angle.

Image: Maxxima MWL-42 Work Light mounted at an angle, illustrating the stainless steel bracket and bolt for installation.

## Wiring Instructions:

1. **Disconnect Power:** Ensure the vehicle's power is OFF and the battery is disconnected before performing any wiring to prevent electrical hazards.

2. **Identify Wires:** The light comes with 2 blunt cut 11-inch jacketed leads. Typically, the red wire is positive (+) and the black wire is negative (-).

3. **Connect Positive:** Connect the positive wire from the light to a switched 12V or 24V DC power source (e.g., a relay, switch, or existing accessory circuit). Ensure the circuit is protected by an appropriately rated fuse.

4. **Connect Negative/Ground:** Connect the negative wire from the light to a suitable ground point on the vehicle chassis.

5. **Secure Connections:** Verify all connections are secure, properly insulated with heat shrink tubing or electrical tape, and free from potential shorts.

6. **Test:** Reconnect the vehicle battery and test the light's functionality.



Image: Rear view of the Maxxima MWL-42 Work Light, illustrating the power cable connection point at the back of the unit.

## 6. OPERATION

Once properly installed and wired, the Maxxima MWL-42 work light operates by applying 12V or 24V DC power to its input leads. Activate the light using the switch or control mechanism connected to its power source.

The light provides a wide flood beam pattern, designed for illuminating large areas effectively for various work or utility tasks. Its 16 LEDs deliver 2100 lumens, offering significant brightness for demanding applications.

Image: Front view of the Maxxima MWL-42 Rectangular 16 LED Work Light with the LEDs in an unlit state, showing the clear lens and individual LED elements.

Image: Front view of the Maxxima MWL-42 Rectangular 16 LED Work Light with all 16 LEDs illuminated, demonstrating its bright output.

## 7. MAINTENANCE

- **Cleaning:** Periodically clean the polycarbonate lens with a soft cloth and a mild soap solution. Rinse with clean water and dry thoroughly. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the lens or housing finish.

- **Inspection:** Regularly inspect the mounting hardware for tightness. Vibrations from vehicle operation can loosen bolts over time. Check the wiring for any signs of wear, fraying, cuts, or corrosion. Replace any compromised components immediately to ensure safe and reliable operation.

- **Housing Care:** The powder-coated aluminum housing is designed for durability. To maintain its appearance and protective properties, avoid exposing it to harsh chemicals or extreme physical impacts.

Image: Side profile of the Maxxima MWL-42 Work Light, highlighting the robust aluminum housing and heat dissipation fins.

## 8. TROUBLESHOOTING

### Light does not turn on:

- **Check Power Connections:** Ensure that the positive (+) and negative (-) wires are correctly connected and secure at both the light and the power source.
- **Verify Power Source:** Confirm that the connected power source (12V or 24V DC) is active and providing the correct voltage. Use a voltmeter to test.
- **Inspect Fuse:** Check the fuse in the power circuit. If it is blown, replace it with a fuse of the correct amperage rating.
- **Examine Wiring:** Look for any cuts, pinches, or corrosion in the wiring that could interrupt the electrical flow.

### Light output is dim or flickers:

- **Check Voltage:** Ensure the correct and stable voltage (12V or 24V) is being supplied to the light. Voltage drops can cause dimming.
- **Inspect Connections:** Loose or corroded electrical connections can lead to intermittent power and flickering. Clean and tighten all connections.
- **Clean Lens:** A dirty or obstructed lens can significantly reduce light output. Clean the lens as described in the Maintenance section.

## 9. SPECIFICATIONS

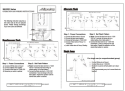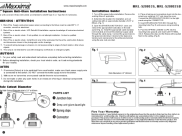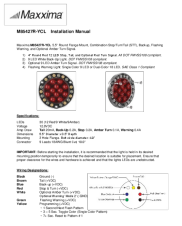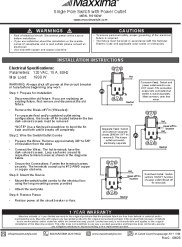| Model | MWL-42 |
|---|---|
| Shape | Rectangular |
| Color | Black |
| Light Source Type | LED (16 LEDs) |
| Brightness | 2100 Lumens |
| Voltage | 12/24VDC Auto Select |
| Amperage | 2.4A (12V), 1.2A (24V) |
| Material | Aluminum, Polycarbonate (PC), Stainless Steel |
| Finish Type | Powder Coated |
| Product Dimensions | 7 x 5 x 3 inches |
| Item Weight | 1 pound (approx. 16 ounces) |
| Mounting Type | 5/16" Stainless Steel bolt & bracket |
| Bulb Features | Wide flood beam pattern |

| UPC | 755183175167 |
|---|---|

## 10. WARRANTY AND SUPPORT

For warranty information, technical assistance, or customer support regarding your Maxxima MWL-42 Rectangular 16 LED Work Light, please contact Maxxima customer service directly. Refer to the official Maxxima website or your original purchase documentation for the most current contact details and warranty terms.

## Related Documents - MWL-42



[Maxxima Ceiling Light Installation Guide MCL-3142300B/MCL-3142300SN](#)
A comprehensive installation guide for the Maxxima Ceiling Light, model numbers MCL-3142300B and MCL-3142300SN. This guide provides step-by-step instructions for wiring and mounting the fixture, along with important safety warnings and cautions. It also details the 3-year limited warranty offered by Maxxima.



[Maxxima Lighting Wiring and Installation Guide for Simultaneous Flash and Single Lamp Systems](#)
Detailed installation and wiring instructions for Maxxima's simultaneous flash and single lamp lighting systems, including power connection and flash pattern settings for 12/24 VDC applications.



[Maxxima MRL-S20803S/SB 2" Square Anti-Glare LED Downlight Installation Guide](#)
Installation guide for Maxxima MRL-S20803S and MRL-S20803SB 2-inch square anti-glare LED downlights. Features include Canless IC rating, 450 lumens, and 3 CCT options (2700K-4000K). Includes safety warnings, parts list, and step-by-step installation procedures.



[M85427R-YCL Installation Manual - Maxxima Vehicle Safety](#)
Comprehensive installation guide for the Maxxima M85427R-YCL vehicle warning light, detailing mounting, wiring, and safety procedures. Provided by Maxxima, a division of Panor Corp.



[Maxxima MEW-RS100W Single Pole Switch with Power Outlet Installation Guide](#)
Installation instructions and warranty information for the Maxxima MEW-RS100W Single Pole Switch with Power Outlet. Learn how to safely install and wire the device.

[Maxxima Outdoor Wall Light Installation Guide](#)

Installation guide for the Maxxima Outdoor Wall Light, including wiring instructions, mounting instructions, and warranty information.