

LTPAG 28101

LTPAG 120W LED Work Lights User Manual

Model: 28101

1. INTRODUCTION

Thank you for choosing LTPAG 120W LED Work Lights. This manual provides comprehensive instructions for the safe and efficient installation, operation, and maintenance of your new LED lights. Designed for durability and high performance, these lights are ideal for a wide range of applications including off-road vehicles, trucks, SUVs, boats, and construction equipment. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of the product.



Figure 1.1: Four LTPAG 120W LED Work Lights, showcasing their compact and robust design.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product:

- **Electrical Safety:** Ensure the power source is disconnected before installation or maintenance. Use appropriate wiring and fuses to prevent short circuits and overloads.
- **Voltage Compatibility:** Only connect the lights to a DC 9-30V power supply. Connecting to an incompatible voltage may damage the lights.
- **Heat Dissipation:** Do not cover the heat sinks of the lights during operation. Adequate airflow is essential for proper heat dissipation and to prolong the lifespan of the LEDs.
- **Mounting Security:** Ensure the lights are securely mounted to prevent vibration and detachment during vehicle operation.
- **Eye Protection:** Do not look directly into the light beam when the lights are on, as the high intensity can cause eye strain or damage.
- **Waterproof Rating:** While rated IP68 waterproof, avoid prolonged submersion or high-pressure water jets directly on the lights.



Figure 2.1: The IP68 waterproof rating ensures durability against water and dust ingress.

3. PACKAGE CONTENTS

Please check the package contents upon receipt to ensure all components are present and undamaged.

- 4 x LTPAG 120W LED Work Lights
- 4 x Adjustable Mounting Brackets
- Mounting Hardware (screws, nuts, washers)
- User Manual (this document)

4. SPECIFICATIONS

Feature	Specification
LED Power	120W (40 pieces x 4 inch LEDs)
Lumen Output	12000 lm
Color Temperature	6000K - 6500K (Cool White)
Operating Voltage	DC 9-30V
Waterproof Rating	IP68
Lifespan	> 50,000 hours
Operating Temperature	-40°C to 85°C
Housing Material	Die-cast Aluminum
Lens Material	PC (Polycarbonate)
Mounting Bracket	Stainless Steel, 360° adjustable
Dimensions (approx.)	3.8" (W) x 3.2" (H) x 2.5" (D)

PRODUCT DIMENSION



Figure 4.1: Product dimensions for installation planning.

BETTER HEAT DISSIPATION & BRIGHTNESS



OUR

Better heat-dissipation



OTHER

Poor heat-dissipation

OTHER



OUR



Figure 4.2: Efficient heat dissipation design for extended lifespan and consistent brightness.

5. SETUP AND INSTALLATION

Follow these steps for proper installation of your LTPAG LED Work Lights:

1. **Choose Mounting Location:** Select a suitable location on your vehicle or equipment that provides clear visibility and allows for secure mounting. Consider the beam pattern and desired illumination area.
2. **Prepare Mounting Surface:** Ensure the mounting surface is clean, flat, and strong enough to support the weight of the lights and withstand vibrations.
3. **Attach Brackets:** Secure the adjustable mounting brackets to the lights using the provided hardware.
4. **Mount Lights:** Position the lights with attached brackets on the chosen surface. Mark the drilling points for the bracket screws. Drill pilot holes if necessary.
5. **Secure Installation:** Fasten the lights securely to the mounting surface using the provided screws, nuts, and washers. Ensure the lights are stable and do not wobble.
6. **Adjust Angle:** Loosen the bracket bolts to adjust the light angle to your desired position. Tighten the bolts firmly

once the angle is set. The bracket allows for 360-degree adjustment.

7. Wiring:

- Connect the positive wire (usually red) of the light to a fused 9-30V DC power source.
- Connect the negative wire (usually black) of the light to a suitable ground point on the vehicle chassis.
- It is recommended to use a relay and a switch for proper circuit protection and control, especially when installing multiple lights.
- Ensure all connections are secure and insulated to prevent short circuits and water ingress.

8. **Test Functionality:** After installation, turn on the power to test the lights. Verify that they illuminate correctly and that the wiring is secure.



Figure 5.1: The adjustable mounting bracket allows for flexible positioning and secure installation.



Figure 5.2: Examples of typical installation environments and vehicle types for the LED work lights.

6. OPERATING INSTRUCTIONS

Once installed, operating the LTPAG LED Work Lights is straightforward:

- **Power On/Off:** Use the connected switch to turn the lights on or off.
- **Beam Pattern:** These lights provide a combination beam pattern, offering both flood and spot illumination for wide area coverage and focused distance lighting.
- **Adjusting Angle:** If needed, loosen the mounting bolts on the bracket, adjust the light angle, and re-tighten firmly.

7. MAINTENANCE

Regular maintenance will help ensure the longevity and optimal performance of your LED work lights:

- **Cleaning:** Periodically clean the lens with a soft cloth and mild soap solution to remove dirt, mud, or debris that may

obstruct light output. Avoid abrasive cleaners.

- **Inspection:** Regularly inspect the mounting hardware for tightness. Vibrations from vehicle operation can loosen bolts over time.
- **Wiring Check:** Check the wiring for any signs of wear, fraying, or corrosion. Repair or replace damaged wiring immediately.
- **Heat Sink:** Ensure the heat sink fins on the back of the light are free from accumulated dirt or debris to allow for proper heat dissipation.

8. TROUBLESHOOTING

If you encounter issues with your LTPAG LED Work Lights, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights do not turn on	No power supply; Loose wiring connection; Blown fuse; Faulty switch.	Check power source; Verify all wiring connections are secure; Replace fuse if blown; Test or replace switch.
Lights flicker or dim	Insufficient voltage; Loose connection; Corroded terminals.	Ensure voltage is within 9-30V range; Tighten connections; Clean corroded terminals.
Moisture inside the lens	Condensation due to temperature changes; Seal integrity compromised.	Small amounts of condensation usually dissipate; If persistent, check for cracks or damage to the housing/seal. Contact support if severe.
Mounting bracket rusts	Exposure to harsh elements; Surface rust on stainless steel.	Clean with rust remover; Apply protective coating if desired. This is typically superficial and does not affect function.

If the problem persists after attempting these solutions, please contact LTPAG customer support for further assistance.

9. WARRANTY AND SUPPORT

LTPAG is committed to providing high-quality products and excellent customer service.

- **Warranty:** This product comes with a manufacturer's warranty. Please refer to your purchase documentation or contact LTPAG customer service for specific warranty terms and conditions.
- **Customer Support:** If you have any questions, concerns, or require technical assistance regarding your LTPAG LED Work Lights, please do not hesitate to contact us. Our support team is ready to help you as quickly as possible.

Contact Information:

Please refer to the contact details provided on the LTPAG official website or your purchase platform for the most up-to-date support information.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question