

[Manuals.plus](#) /

› [Willpower](#) /

› Willpower 20 Inch 288W LED Strobe Light Bar User Manual

Willpower 20 inch 288 Strobe

Willpower 20 Inch 288W LED Strobe Light Bar User Manual

Model: 20 inch 288 Strobe

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Willpower 20 Inch 288W LED Strobe Light Bar. Designed for off-road vehicles, trucks, SUVs, and other heavy equipment, this light bar offers versatile lighting modes including white, amber, and strobe functions to enhance visibility and safety in various conditions. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

2. PRODUCT FEATURES

- **Extremely Bright Illumination:** Features a central triple-row LED design, delivering 5500 Lumens and 288W for superior brightness and extended irradiation distance. Multi-angle reflector cups on both sides provide wider range illumination and a broader view area.
- **Versatile 5 Lighting Modes:** Easily switch between all white light, all amber light, white flash, amber strobe, and white & amber strobe modes. Amber lights offer strong penetration, ideal for warning signals, emergency use, or fog lamps.
- **Durable Construction:** Built with a robust 6063 Aluminum housing and PC lens for durability and resistance to harsh environments.
- **Efficient Heat Dissipation:** Low-profile radiator design ensures good thermal conductivity and large heat dissipation to maintain optimal performance.
- **Adjustable Mounting:** Features a 45-degree adjustable angle for easy direction changes, allowing precise light positioning.
- **Wide Application:** Suitable for various vehicles and uses including work light, driving light, fog light, and off-road light for Jeeps, SUVs, Trucks, Tractors, Boats, Mining, and Farming equipment.



5molds

in 1light
controlled by
power on/off button

White Light



Yellow Light



White Strobe



Yellow Strobe



White / Yellow Strobe

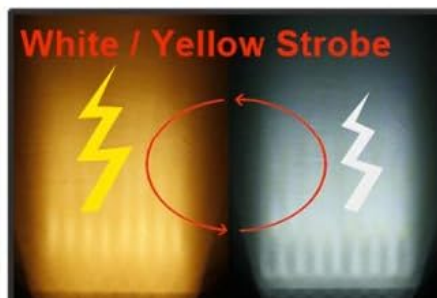
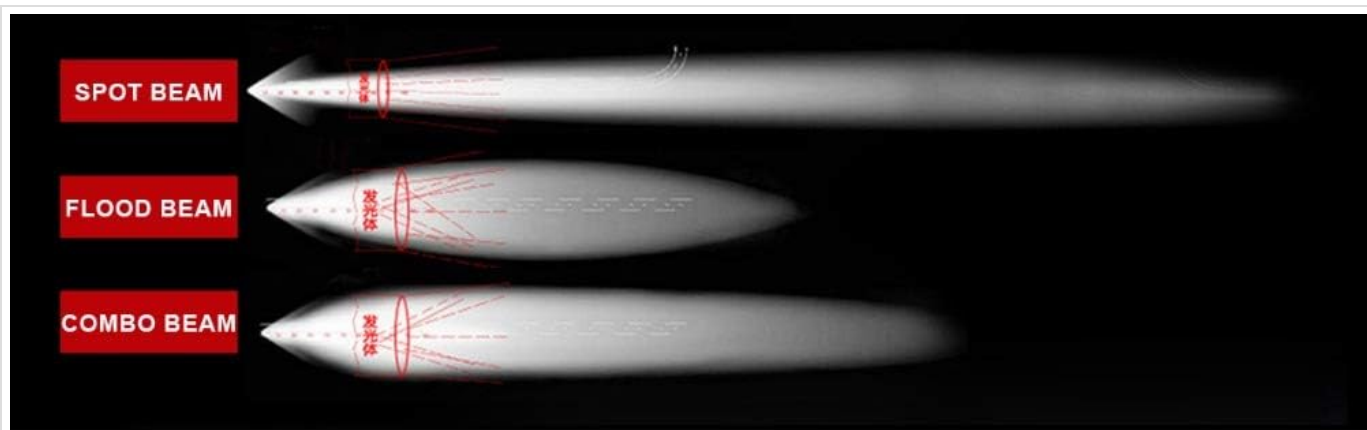


Figure 2.1: Overview of the Willpower 20 Inch 288W LED Strobe Light Bar.



SPOT BEAM



FLOOD BEAM



Figure 2.2: Illustration of Spot, Flood, and Combo Beam patterns for comprehensive illumination.



Switch reset control 5 modes

- 1.All white
- 2.All amber
- 3.White strobe
- 4.Amber strobe
- 5.White & Amber strobe

Figure 2.3: Visual representation of the five distinct lighting modes available.

3. PACKAGE CONTENTS

Upon opening your package, please verify that all components are present and undamaged. The standard package includes:

- 1 x Willpower 20 Inch 288W Triple Row LED Light Bar
- Mounting Brackets (with necessary hardware)
- Wiring Harness (may be sold separately or included depending on package)
- Remote Controller (may be sold separately or included depending on package)

4. SPECIFICATIONS

Specification	Value
Product Dimensions (L x W x H)	50.8 x 10.2 x 10.2 cm (20 x 4 x 4 inches)

Specification	Value
Item Weight	1.6 kg
Brand	Willpower
Colour	Amber, White
Voltage	12 Volts
Light Source Type	LED
Form Factor	Bar
Material Type	Aluminum, Polycarbonate (PC)
Water Resistance Level	Waterproof (IP67/IP68)
Fit Type	Universal Fit
Number of Pieces	1

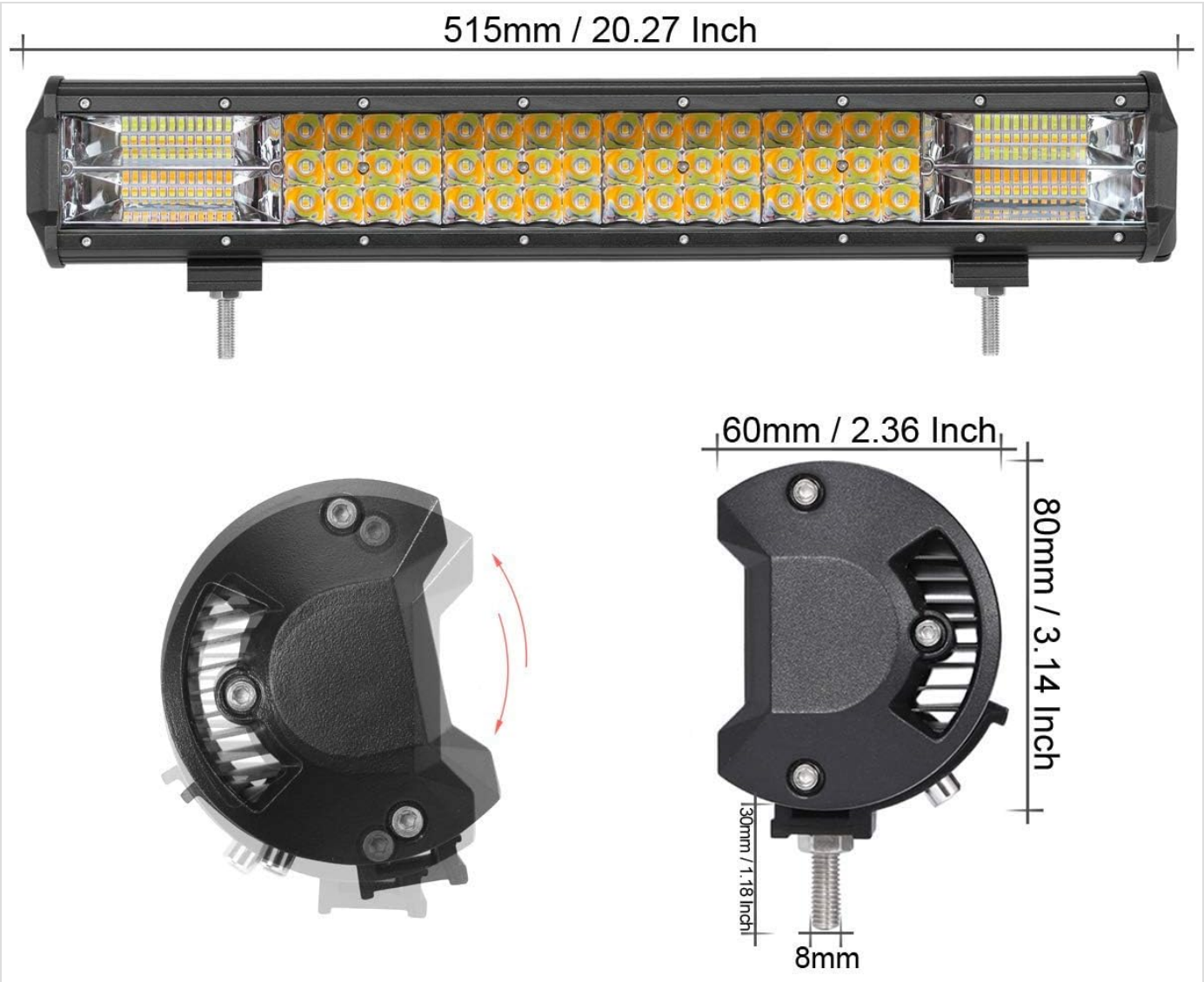


Figure 4.1: Product dimensions and mounting bracket details.

5. INSTALLATION

Proper installation is crucial for the performance and safety of your LED light bar. It is recommended to have this product installed by a

qualified professional if you are unfamiliar with vehicle electrical systems.

5.1 Mounting the Light Bar

1. **Select Mounting Location:** Choose a secure and appropriate location on your vehicle (e.g., bumper, roof rack, grille) that does not obstruct your view or other vehicle lights.
2. **Assemble Brackets:** Attach the mounting brackets to the light bar using the provided hardware. Ensure all screws are tightened securely.
3. **Position and Secure:** Place the light bar in the desired location. Mark and drill holes if necessary. Secure the brackets to the vehicle using appropriate bolts and nuts. The brackets allow for a 45-degree adjustable angle to direct the light beam.

5.2 Wiring Instructions

The light bar typically requires a 12V power source. A wiring harness (often sold separately) is recommended for safe and efficient installation, usually including a switch, relay, and fuse.

1. **Disconnect Battery:** Always disconnect the vehicle's battery before starting any electrical work to prevent short circuits.
2. **Connect Power:** Connect the positive (+) wire from the light bar to the relay's power input. Connect the negative (-) wire to a suitable ground point on the vehicle chassis.
3. **Connect Switch:** Route the switch wiring to the vehicle's cabin. Connect the switch to the relay and a 12V ignition-switched power source.
4. **Install Fuse:** Ensure an inline fuse is installed on the positive power line close to the battery for circuit protection.
5. **Reconnect Battery:** Once all connections are secure and verified, reconnect the vehicle's battery.

Video 5.1: Demonstration of wiring harness components and connection for a Willpower LED Light Bar.

Video 5.2: Product details including heat dissipation and adjustable bracket for LED light bars.

6. OPERATING INSTRUCTIONS

The Willpower 20 Inch 288W LED Strobe Light Bar features 5 distinct lighting modes. These modes are typically cycled through by repeatedly pressing the power switch or using a remote control (if included).

6.1 Switching Lighting Modes

To change between the 5 lighting modes, simply turn the light bar OFF and then ON again using the connected switch or remote control. Each power cycle will advance to the next mode in the sequence:

1. All White Light
2. All Amber Light
3. White Strobe Light
4. Amber Strobe Light
5. White and Amber Strobe Light

Note: The light bar does not retain the last selected mode when powered off. You will need to cycle through the modes to reach your desired setting each time it is turned on.

Video 6.1: Demonstration of the strobe lighting modes.

Video 6.2: Overview of white and amber flash triple row lighting modes.

Video 6.3: The Willpower LED Light Bar in action, demonstrating its spot and flood combo beams for off-road use.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your LED light bar.

- **Cleaning:** Periodically clean the lens and housing with a soft cloth and mild soap solution. Avoid abrasive cleaners that could scratch the lens.

- **Inspection:** Regularly check all mounting hardware and electrical connections for tightness and corrosion. Tighten any loose bolts and clean any corroded terminals.
- **Waterproof Integrity:** The light bar is rated IP67/IP68 waterproof. While designed to withstand water and dust, avoid high-pressure washing directly at close range, especially around seals.



Figure 7.1: The light bar's IP68 waterproof design ensures durability in wet conditions.

8. TROUBLESHOOTING

If you encounter issues with your light bar, refer to the following common troubleshooting steps:

- **Light Not Turning On:**
 - Check all wiring connections for looseness or corrosion.
 - Verify the fuse is intact and not blown. Replace if necessary.
 - Ensure the vehicle's battery has sufficient charge.
 - Test the switch and relay for proper function.

- **Incorrect Lighting Mode:**

- The light bar cycles through modes with each power cycle. Continue turning the light OFF and ON until the desired mode is reached.

- **Dim or Flickering Light:**

- Check for loose or corroded electrical connections.
- Ensure adequate voltage supply to the light bar.
- Inspect the wiring for any damage or pinches.

9. SAFETY INFORMATION

Please observe the following safety precautions:

- Do not look directly into the light bar when it is illuminated, as it can cause eye damage.
- Ensure the light bar is securely mounted to prevent detachment during vehicle operation.
- Always disconnect the vehicle's battery before performing any electrical work.
- Use appropriate wiring gauges and fuses to prevent electrical hazards.
- Adhere to all local and national regulations regarding auxiliary lighting on vehicles.

10. WARRANTY AND SUPPORT

This Willpower LED Strobe Light Bar comes with a **1-year manufacturer's warranty**. For warranty claims or technical support, please refer to your purchase documentation or contact the retailer where the product was purchased. Keep your proof of purchase for warranty validation.