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› [Hella Black Magic LED Series 20 Inch Slim Lightbar \(Model 358176301\) Instruction Manual](#)

Hella 358176301

Hella Black Magic LED Series 20 Inch Slim Lightbar (Model 358176301) Instruction Manual

PRODUCT OVERVIEW

The Hella Black Magic LED Series 20 Inch Slim Lightbar is designed for off-road use, providing high-performance illumination. This multi-volt product is suitable for both 12 Volt and 24 Volt applications, featuring a sleek, blacked-out design and robust construction for durability in challenging environments. Its edgeless design helps prevent dust and dirt accumulation, and it boasts high dust and waterproof ratings (IP68, IP69K) with EMC protection (ECE-R10).



Image: The Hella Black Magic LED Series 20 Inch Slim Lightbar, shown both in its retail packaging and as a standalone unit, highlighting its compact and sleek design.

WHAT'S IN THE BOX

Upon unpacking, please verify that all components are present:

- 1 x Hella Black Magic LED Series 20 Inch Slim Lightbar
- Mounting Hardware (bolts, nuts, washers, brackets)
- Mounting Instructions



Image: The Hella Black Magic LED Series 20 Inch Slim Lightbar displayed alongside its complete set of mounting hardware, including brackets, bolts, and nuts.

SETUP AND INSTALLATION

The Hella Black Magic LED Lightbar is designed for universal installation and can be mounted upright or pendant, or integrated into vehicle bodywork or bumpers. Ensure the vehicle's electrical system is disconnected before beginning installation.

Mounting the Lightbar

1. **Select Mounting Location:** Choose a suitable location on your vehicle (e.g., roof rack, bumper, grille) that provides optimal light projection and does not obstruct other vehicle functions or lights.
2. **Attach Brackets:** Secure the black zinc-coated steel mounting brackets to the lightbar using the provided hardware. The mounting angles are freely adjustable to suit various installation requirements.
3. **Position and Secure:** Place the lightbar with attached brackets in the desired location. Mark and drill any necessary holes for securing the brackets to the vehicle. Ensure the lightbar is firmly attached and stable.



Image: A detailed view of the adjustable mounting bracket on the Hella Black Magic LED Lightbar, illustrating its robust construction and flexibility for installation.

Wiring Instructions

The lightbar is a multi-volt product, compatible with 12V and 24V systems. Professional installation is recommended for electrical connections.

- Connect the positive wire (typically red) from the lightbar to a fused 12V or 24V power source, depending on your vehicle's system.
- Connect the negative wire (typically black) from the lightbar to a suitable ground point on the vehicle chassis.
- It is recommended to use a relay and switch for proper control and protection of the electrical circuit.
- Ensure all connections are secure and insulated to prevent short circuits and corrosion.

OPERATING INSTRUCTIONS

Once installed and wired correctly, the Hella Black Magic LED Lightbar can be operated via the connected switch. This lightbar is intended for off-road use only and should not be used on public roads where auxiliary high beams are restricted.

- **Activation:** Flip the installed switch to turn the lightbar ON.
- **Deactivation:** Flip the switch OFF to turn the lightbar OFF.
- **Optimal Use:** For maximum visibility during off-road adventures, activate the lightbar in dark conditions or areas requiring enhanced illumination.

Your browser does not support the video tag.

Video: An official Hella Inc. video showcasing the Hella Black Magic LED Series lightbars in action, demonstrating their powerful illumination and suitability for off-road environments.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Hella Black Magic LED Lightbar. The

edgeless design minimizes dirt accumulation, simplifying cleaning.

- **Cleaning:** Periodically clean the lens and housing with a soft cloth and mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the lens or finish.
- **Inspection:** Regularly check all mounting hardware for tightness. Inspect wiring for any signs of wear, fraying, or corrosion. Ensure the lightbar remains securely attached to the vehicle.
- **Waterproof Integrity:** While the lightbar has high IP ratings (IP68, IP69K), avoid directing high-pressure water jets directly at the seals for extended periods.



Image: A close-up of the Hella Black Magic LED Lightbar, emphasizing its edgeless design which contributes to easier cleaning and reduced dirt buildup.

TROUBLESHOOTING

If you encounter issues with your Hella Black Magic LED Lightbar, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Lightbar does not turn ON.	No power, loose connection, blown fuse, faulty switch.	Check power supply, inspect all wiring connections, replace fuse if necessary, test switch functionality.
Light output is dim or flickering.	Insufficient power, poor ground connection, damaged wiring.	Verify adequate voltage, ensure a solid ground connection, inspect wiring for damage.
Moisture inside the lens.	Seal compromise (unlikely due to IP rating), extreme temperature changes causing condensation.	Allow to dry in a warm, dry environment. If persistent, contact support.

If the problem persists after attempting these steps, please contact Hella customer support.

SPECIFICATIONS

Feature	Detail
Brand	Hella
Model	Black Magic LED
Item Model Number	358176301
Color	Black (Housing), Clear (Lens)
Specific Uses	Off-Road Lighting, High Beam
Vehicle Service Type	SUV, Tractor, 4x4, Pickup Trucks, ATV, Jeep
Special Features	High Beam, Waterproof (IP68, IP69K), EMC Protection (ECE-R10)
Auto Part Position	Front
Lens Material	Plastic

Feature	Detail
Product Dimensions (L x W x H)	25 x 4 x 4 inches (approx. 635 x 101.6 x 101.6 mm)
Item Weight	3.9 pounds (approx. 1.77 kg)
Lamp Type	LED
Voltage Compatibility	12 Volt and 24 Volt applications (Multi-Volt)

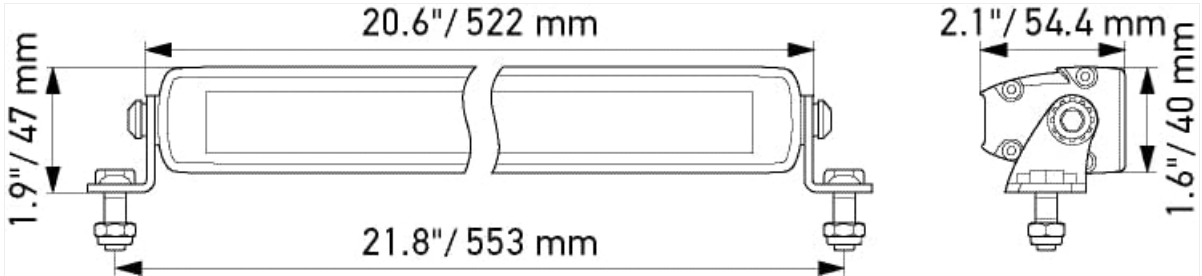




Image: Technical drawing illustrating the dimensions of the Hella Black Magic LED Series 20 Inch Slim Lightbar, including length, height, and depth measurements.


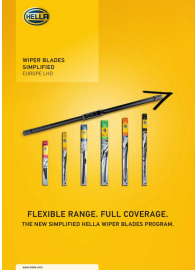
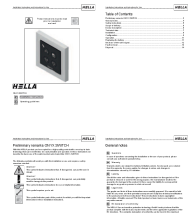
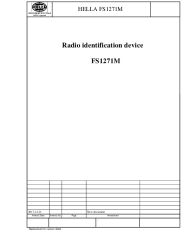
WARRANTY AND SUPPORT

For warranty information and customer support regarding your Hella Black Magic LED Series Lightbar, please refer to the official Hella documentation included with your product or visit the official Hella website. You can also visit the [Hella Store on Amazon](#) for additional product information and support resources.

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Related Documents - 358176301

	<p>HELLA Australia Aftermarket Catalogue 2019-2020</p> <p>Explore the comprehensive HELLA Australia Aftermarket Catalogue for 2019-2020, featuring a wide range of LED marker and signal lamps, lighting solutions, and automotive electrical components for commercial vehicles. Discover innovative technologies like DuraLED and EuroLED, designed for durability, performance, and safety.</p>
	<p>HELLA DuraLED Combi Lamp: Application & Mounting Instructions</p> <p>Comprehensive guide for installing and applying the HELLA DuraLED Combi STOP / REAR POSITION / INDICATOR LAMP. Covers features, ADR/ECE compliance, mounting, wiring, and warranty for 12V/24V systems.</p>

 <p>BRIEF INFORMATION Halogen Combination Headlamp Combi 220</p> <p>PRODUCT FEATURES</p> <ul style="list-style-type: none"> 1. Halogen lamp 2. Halogen lamp 3. Halogen lamp 4. Halogen lamp 5. Halogen lamp 6. Halogen lamp 7. Halogen lamp 8. Halogen lamp 9. Halogen lamp 10. Halogen lamp 11. Halogen lamp 12. Halogen lamp 13. Halogen lamp 14. Halogen lamp 15. Halogen lamp 16. Halogen lamp 17. Halogen lamp 18. Halogen lamp 19. Halogen lamp 20. Halogen lamp 21. Halogen lamp 22. Halogen lamp 23. Halogen lamp 24. Halogen lamp 25. Halogen lamp 26. Halogen lamp 27. Halogen lamp 28. Halogen lamp 29. Halogen lamp 30. Halogen lamp 31. Halogen lamp 32. Halogen lamp 33. Halogen lamp 34. Halogen lamp 35. Halogen lamp 36. Halogen lamp 37. Halogen lamp 38. Halogen lamp 39. Halogen lamp 40. Halogen lamp 41. Halogen lamp 42. Halogen lamp 43. Halogen lamp 44. Halogen lamp 45. Halogen lamp 46. Halogen lamp 47. Halogen lamp 48. Halogen lamp 49. Halogen lamp 50. Halogen lamp 51. Halogen lamp 52. Halogen lamp 53. Halogen lamp 54. Halogen lamp 55. Halogen lamp 56. Halogen lamp 57. Halogen lamp 58. Halogen lamp 59. Halogen lamp 60. Halogen lamp 61. Halogen lamp 62. Halogen lamp 63. Halogen lamp 64. Halogen lamp 65. Halogen lamp 66. Halogen lamp 67. Halogen lamp 68. Halogen lamp 69. Halogen lamp 70. Halogen lamp 71. Halogen lamp 72. Halogen lamp 73. Halogen lamp 74. Halogen lamp 75. Halogen lamp 76. Halogen lamp 77. Halogen lamp 78. Halogen lamp 79. Halogen lamp 80. Halogen lamp 81. Halogen lamp 82. Halogen lamp 83. Halogen lamp 84. Halogen lamp 85. Halogen lamp 86. Halogen lamp 87. Halogen lamp 88. Halogen lamp 89. Halogen lamp 90. Halogen lamp 91. Halogen lamp 92. Halogen lamp 93. Halogen lamp 94. Halogen lamp 95. Halogen lamp 96. Halogen lamp 97. Halogen lamp 98. Halogen lamp 99. Halogen lamp 100. Halogen lamp 	<p>HELLA Halogen Combination Headlamp Combi 220 - Technical Specifications and Features</p> <p>Discover the HELLA Halogen Combination Headlamp Combi 220. This document details its product features, technical specifications, light distribution, and available variants for various mounting options and voltage requirements.</p>
 <p>WIPER BLADES Simplified TYPICAL LIST</p> <p>FLEXIBLE RANGE. FULL COVERAGE. THE NEW SIMPLIFIED HELLA WIPER BLADES PROGRAM.</p>	<p>HELLA Wiper Blades Catalog: Comprehensive Range & Vehicle Applications</p> <p>Explore the HELLA wiper blades catalog, featuring Metal Wiper, Cleantech, Easy Set, Rear, Hybrid, Winter, and Heavy Duty options. Find detailed specifications, adapter guides, and vehicle application lists for optimal visibility and safety.</p>
 <p>HELLA ONYX.SWITCH</p> <p>5-channel wall-mounted radio transmitter</p>	<p>HELLA ONYX.SWITCH Installation and Operating Instructions</p> <p>Comprehensive installation, configuration, operation, and troubleshooting guide for the HELLA ONYX.SWITCH 5-channel wall-mounted radio transmitter. Includes technical specifications, safety guidelines, and disposal information.</p>
 <p>HELLA FS1271M</p> <p>Radio identification device FS1271M</p>	<p>HELLA FS1271M Radio Identification Device: Features and Application</p> <p>Learn about the HELLA FS1271M, a radio identification device for automotive passive entry and passive start systems. This document details its functions, application, and regulatory compliance.</p>