

Installation And Operation Instructions

This LED utility bar features a high-grade aluminium housing for excellent heat dissipation. It uses the latest LED technology to deliver intense white, high-intensity light with minimal power consumption. The unit includes a fully road-legal E-marked driving beam, along with an off-road high-lumen E-Boost mode, and a selectable amber or white position light.



IMPORTANT!

Read all instructions before installing and using this product. This manual assumes the installation is carried out by a suitably qualified automotive technician. Failure to install or use this product according to the manufacturers recommendations may result in property damage or personal injury!



INSTALLATION:

To prevent damage to the bar and vehicle, ensure that all equipment operates properly and as intended. Carefully plan where to mount the bar, ensure the projection of the light beam is not blocked by the vehicle components (doors, boot/bonnet, roof racks). Verify that the bar and its mounting hardware fit your vehicle

THINGS TO CONSIDER:

1. The location to mount the bar.
 2. The position to route the power cable.
- WARNING: Take extra care when routing the power cable around airbag areas to not interfere with their operation.**
3. Separate all electrical equipment wiring from two-way radio equipment wiring.
 4. To help avoid interference, keep two-way radio antennas a minimum of 50cm away.
 5. After drilling holes, deburr and smooth any sharp edges, use rubber grommets to protect the wires from chafing.

FITTING: (End Mounting)

1. Loosely install the brackets to each end of the bar.
2. Position the bar in the desired location, ensure that you mount on a flat, stable surface with adequate clearance. Mark and drill two holes using the brackets as a guide, beware of any hidden electrical cables and ensure not to damage or weaken the structural integrity of the vehicle.
3. Secure the brackets to the vehicle using the fixings supplied.
4. Tighten the socket head bolts on each side of the bar to secure the bar at the desired angle.

WIRING: (Refer to FIG.1)

IMPORTANT! DISCONNECT THE BATTERY BEFORE WIRING THE BAR.

1. Thicker gauge wires and tight connections will provide longer service life for this product. It is recommended that cable connections are soldered and installed with heat shrink (adhesive lined). Alternative options include the use of waterproof electrical connectors, such as Deutsch DT / DTP series.

2. Install grommets when passing cables through the vehicle body to ensure cables do not snag or wear over time with road vibrations.
3. This product should be grounded to a substantial factory ground point or connected directly to the vehicle battery.
4. Install an appropriate sized fuse (based on which model bar you are installing and the chosen cable gauge). Install the fuse close to the vehicle battery.
5. Ensure the cable gauge has sufficient current rating for the expected load in the circuit.
6. If the circuit load exceeds the switch rating then a relay will be required.



WARNING!

Do not install and/or operate this product unless you have read and understand the safety information within this manual.

Disconnect the battery before wiring up this product to prevent accidental shorting, arcing and/or electrical shock.

This product must be grounded properly, incorrect grounding or shorting of electrical connections can cause arcing, which can cause personal injury and/or damage to the vehicle. Correct fitment is critical to the products performance.

The manufacturer assumes no liability for any loss resulting from the use of this device.

CAUTION: THE LIGHT'S HOUSING GET VERY HOT TO TOUCH AFTER OPERATING CONSTANTLY FOR SEVERAL HOURS!

How to switch between Road Legal Driving Mode and Off-Road Boost Mode:

1. Turn the light on and wait 2 seconds.

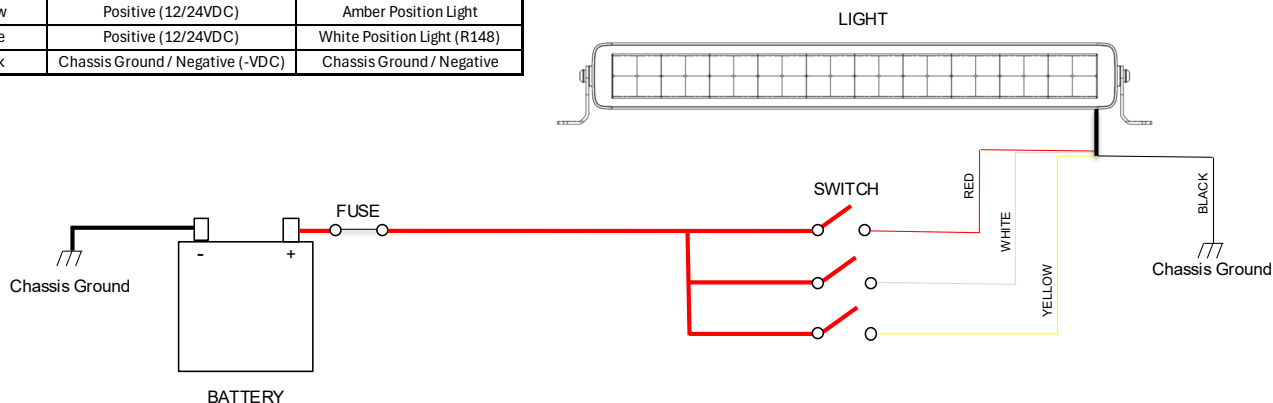
2. Then quickly turn it off and on 3 times within 5 seconds.

If the light is already on, turn it off for 5 seconds before starting the steps above.

The light has a memory function and will stay in the last selected mode, even after being turned off.

FIG.1: Wiring Colour Code.

Cable Colour	Connection	Function
Red	Positive (12/24VDC)	Main Beam
Yellow	Positive (12/24VDC)	Amber Position Light
White	Positive (12/24VDC)	White Position Light (R148)
Black	Chassis Ground / Negative (-VDC)	Chassis Ground / Negative



Length	Rated Power	Raw Lumen (LM)	Power Mode	Effective Lumen (LM)	Current 12V / 24V
8" / 204mm	60W	5040	Driving	1641	1.7A / 0.9A
			Off-Road Boost	3436	3.6A / 1.9A
14" / 357mm	120W	10080	Driving	3120	3.4A / 1.9A
			Off-Road Boost	6545	7.3A / 4.0A
22" / 561mm	200W	16800	Driving	4871	6.2A / 3.4A
			Off-Road Boost	10246	13.5A / 7.1A
32" / 815mm	300W	25200	Driving	6827	8.9A / 4.9A
			Off-Road Boost	14337	19.7A / 10.2A
42" / 1076mm	400W	33600	Driving	8300	13.2A / 7.0A
			Off-Road Boost	17188	28.6A / 14.5A

Technical Specifications	
Input Voltage:	10-30V DC
Operating Temp:	-40°C to + 65°C
IP Rating:	IP68, IP69K
Fixing:	Side Or Rear Brackets
Approvals:	ECE R10 (EMC), R148, R149, UKCA
LED:	5W OSRAM
Beam	Driving Beam / Off-Road Boost
Position Light	Amber / White
Lens:	Clear Lens, UV Protected
Warranty	2 Years