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Nilight
90323B
RGB
TOGGLE
SWITCH

Nilight 90323B RGB Toggle Switch User Manual

Contents

Nilight 90323B RGB Toggle Switch

INTRODUCTION

A premium, multipurpose car accessory, the Nilight 90323B RGB Toggle Switch is made to improve the lighting and electronic control of your car. At only $22.50, this toggle switch is a great addition to any truck, SUV, or off-road vehicle since it provides dependable performance and an eye-catching RGB backlight. It can manage the majority of your car's electrical components because it runs at 12V DC and has a 20 Amp current rating. The ON-ON operation mode offers a straightforward, user-friendly way to turn on and off different lighting or electrical components. The Nilight 90323B is a great option whether you're adding new lighting kits, updating your car's accessories, or searching for a long-lasting switch that combines style and functionality. A dependable addition to any car modification, it is made by Nilight, a well-known brand in the automotive accessories business.

SPECIFICATIONS

Brand	Nilight
Price	$22.50
Operation Mode	ON-ON
Current Rating	20 Amps
Operating Voltage	12 Volts (DC)
Contact Type	Normally Open
Connector Type	Plug-In
Product Dimensions	1.97 x 1.97 x 1.97 inches
Weight	4.23 ounces
Item Model Number	90323B
Date First Available	December 11, 2023
Manufacturer	Nilight
Country of Origin	China

WHAT'S IN THE BOX

- RGB Toggle Switch
- User Manual

FEATURES

- **Durability**: With a 500,000 cycle rating, it is incredibly long-lasting and sturdy, making it perfect for frequent usage.
- **Superior Construction**: Constructed with copper-plated silver connections for improved electrical conductivity, which improves longevity and performance.
- **Flame-Retardant Casing**: Constructed from materials that resist flames, this casing ensures increased safety in the event of an electrical fault.
- **IP67 Waterproof Rating**: Suitable for usage in damp situations such as equipment, boats, and outdoor vehicles, it is protected from dust and low-pressure water jets.

- **Broad Voltage Range**: Suitable for 12V–24V DC applications, this product is perfect for usage in a variety of automobiles and electrical systems, including cars, trucks, boats, recreational vehicles, and more.
- **Versatile Applications**: Capable of managing circuits in automobiles, trucks, RVs, naval vessels, industrial equipment, LEDs, and even domestic appliances, among other electrical devices.
- **Simple Installation**: Pre-wired harnesses are included, making installation easier by offering three sets of wires for simpler connections.

WIRING DIAGRAM

LED COMMON PIN+

Red Wire: RED LED
Green Wire: Green LED
Blue Wire: Blue LED
Yellow Wire: LED COMMON PIN

RED LED-

Blue LED-

Green LED-

Orange Wire: SWITCH + (Normal Closed)
Black Wire: SWITCH + (Normal Open)
White Wire: SWITCH- (COMMON)

NC

COM

A
LED INDICATOR ALWAYS ON
Switch Off: Red LED on, Device off
Switch On: Blue LED on, Device on

B
LED INDICATOR ONLY ON WITH SWITCH ON
Switch Off: Blue LED Off, Device off
Switch On: Blue LED on, Device on

C
LED INDICATOR ONLY ON WITH SWITCH OFF
Switch Off: Blue LED on, Device off
Switch On: Blue LED off, Device on

D
LIGHT DIFFERENT COLOR LIGHT
WHEN SWITCH ON AND OFF
Switch Off: Blue LED on, Device off
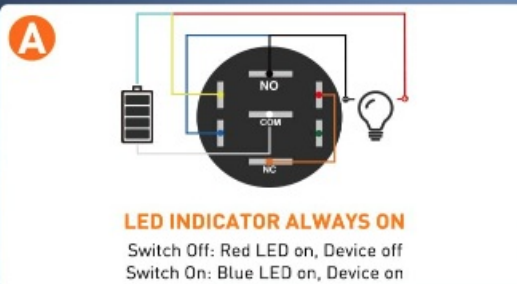Switch On: Green LED on, Device on

- **Clear ON/OFF Marking**: For ease of usage, the switch is marked with "ON" and "OFF" indicators. This is especially helpful in low light or dark conditions.
- **Small Design**: The switch fits in small locations since it is lightweight and small, measuring only 1.97 x 1.97 x 1.97 inches and weighing 4.23 ounces.

- **Safe Electrical Conductivity**: For improved performance and efficiency, the copper-plated silver connections provide low resistance and maximum conductivity.
- **Multipurpose Use**: Effectively controls a range of electric equipment, such as fans, winches, LED light bars, and other accessories for both home and vehicle use.
- **Stainless Steel Construction**: Designed to be long-lasting and corrosion-resistant, stainless steel is perfect for outdoor and marine applications.
- **2-Year Warranty**: Nilight offers a 2-year warranty to guarantee customer satisfaction and peace of mind.

SETUP GUIDE

- **Examine and Unpack**: Begin by opening the switch's box and making sure that all of its parts—21 connected wires, harnesses, and the switch itself—are there.
- **Choose Mounting Location**: Wherever possible, put the toggle switch so that it is visible and accessible, especially at night.
- **Get the Surface Ready**: Make sure the space where you intend to attach the switch is clear of any debris or oil that can compromise adherence or safe mounting.
- **Mark Screw Positions**: Mark the drill hole locations for the mounting screws on your car or gadget using the switch as a template.
- **Drill Holes**: Take care not to harm other components when drilling the necessary holes for firmly installing the switch.
- **Mount the Switch**: To guarantee that the switch remains securely in place, install it in the specified location

using screws or an appropriate mounting technique.

- **Connect Wires**: Attach the switch to the electrical system using the 21 connecting wires that are supplied. To make sure the connections are made correctly, consult the color-coded wire guide.
- **Wire Routing**: To keep the wires from tangling and from interfering with other electrical components, route them cleanly. For improved organizing, use wire clips or zip ties.
- **Connect Power Source**: Make sure the power input wires are polarized correctly for safe operation and connect them to the vehicle's 12V–24V power system.
- **Install the RGB LED Wiring**: To turn on the color-changing function, connect the RGB LED wires to the corresponding toggle switch terminals.
- **Test the Switch**: Switch the system's power on and check the toggle switch. Verify the RGB lighting to make sure the color changes in accordance with the on/off state of the switch.

- **Secure the Connections**: Verify the wiring connections one more time to ensure that none of the exposed wires provide a short circuit risk.
- **Customize the Colors**: By wiring the RGB LEDs to the color of your choice, you may select the color you want for each state (on/off).
- **Recheck Functionality**: Make sure the switch operates as intended and that the RGB lights operate as intended by testing it several times.
- **Final Inspection**: Verify that the switch is installed securely and that all wires are connected. Before operating

the switch in the car or system, make one last check.

CARE & MAINTENANCE

- **Frequent Cleaning**: To get rid of dust, filth, and debris that could build up over time, wipe the switch's surface and the surrounding area with a soft cloth.
- **Check for Wear and Tear**: Occasionally check the switch for indications of wear on the contacts or cracks in the case.
- **Test Functionality**: Make sure the switch is operating correctly and that the RGB lights are changing colors as planned by testing it on a regular basis.
- **Protect From Extreme Conditions**: Keep the switch away from high water pressure even though it is waterproof.
- **Examine Wiring**: If the switch is placed in an outdoor or maritime setting, pay particular attention to the wiring for indications of fraying, deterioration, or corrosion.
- **Verify Proper Grounding**: To avoid damage or malfunctions to the switch and other connected equipment, make sure the electrical system is grounded correctly.
- **Avoid Overloading**: To avoid overheating or electrical failure, make sure the switch is operated within the rated 5A limit.
- **Keep Dry**: To avoid moisture buildup inside, make sure the switch turns off as soon as it is exposed to rain or other damp circumstances.
- **Guard Against Dust**: To keep dust from getting in the way of electrical connections or the RGB lights, clean the switch's contacts and LED sections on a regular basis.
- **Check Mounting**: To prevent loosening or damage from vibration, periodically make sure the switch is attached firmly.
- **Store in Dry Conditions**: To avoid damaging the internal parts, make sure the switch is stored in a dry, dust-free environment while being removed for storage.
- **Replace problematic Parts**: Examine the wiring and think about replacing any problematic parts if the RGB LED lights cease functioning or the switch stops responding.
- **Steer Clear of Harsh Chemicals**: Steer clear of harsh chemical cleaners when cleaning, since they may cause discoloration or damage to the switch's shell.
- **RGB LED Color Testing**: Verify that the RGB LED light functions as intended and changes colors when the switch is toggled.
- **Frequent Maintenance inspections**: To guarantee optimum performance and avert possible breakdowns, develop the habit of doing frequent inspections on all connected electrical components.

TROUBLESHOOTING

Issue	Solution
The switch does not light up	Ensure the switch is properly connected to a power source.
RGB backlight does not changing colors	Check the wiring and ensure the switch is connected to an RGB controller.
Switch feels loose or unstable	Tighten the switch mounting bolts or check for damaged threads.
No response when toggled	Test the switch with a multimeter for electrical continuity.
Switch operates intermittently	Inspect wiring for corrosion or loose connections.
The backlight color is dim	Verify if the power source provides adequate voltage.
Switch stuck in the ON position	Examine the internal mechanism for damage or obstruction.
Overheating when in use	Ensure the switch is not being overloaded beyond its amp rating.
No sound when pressed (for sound systems)	Ensure the switch is correctly wired to the audio system.
Switch installation requires complex tools	Refer to the manual for detailed, step-by-step installation instructions.

PROS & CONS

PROS:

1. RGB backlight for customizable colors to match your vehicle's theme.
2. Durable 20-amp current rating for handling high-power applications.
3. Easy plug-in installation for a hassle-free setup.
4. The compact size fits most vehicle applications.
5. The affordable price point for an RGB toggle switch.

CONS:

1. Limited to 12V DC systems; not suitable for higher voltage setups.
2. May not be compatible with all vehicle wiring systems.
3. No wireless control options; must be manually toggled.
4. May require additional accessories for certain installations.
5. The RGB backlight may not be very bright in daylight conditions.

WARRANTY

Nilight offers a **1-year warranty** on the 90323B RGB Toggle Switch. This warranty covers any defects in material or workmanship, giving customers peace of mind. However, the warranty does not cover damage resulting from improper installation, misuse, or modification of the product.

FREQUENTLY ASKED QUESTIONS

What is the price of the Nilight 90323B RGB Toggle Switch?

The Nilight 90323B RGB Toggle Switch is priced at $22.50.

What is the operation mode of the Nilight 90323B RGB Toggle Switch?

The Nilight 90323B RGB Toggle Switch operates in an ON-ON mode, allowing two separate control positions.

What is the current rating of the Nilight 90323B RGB Toggle Switch?

The Nilight 90323B RGB Toggle Switch has a current rating of 20 Amps, ensuring compatibility with high-power electrical systems.

What is the operating voltage for the Nilight 90323B RGB Toggle Switch?

The Nilight 90323B RGB Toggle Switch operates on 12 Volts DC, making it ideal for automotive and 12V systems.

What type of contact does the Nilight 90323B RGB Toggle Switch use?

The Nilight 90323B RGB Toggle Switch uses a Normally Open contact type, ensuring the switch closes when activated.

What is the connector type for the Nilight 90323B RGB Toggle Switch?

The Nilight 90323B RGB Toggle Switch features a plug-in connector, allowing for easy and quick installation.

What are the product dimensions of the Nilight 90323B RGB Toggle Switch?

The Nilight 90323B RGB Toggle Switch has compact dimensions of 1.97 x 1.97 x 1.97 inches, fitting most

installations.

What is the weight of the Nilight 90323B RGB Toggle Switch?

The Nilight 90323B RGB Toggle Switch weighs 4.23 ounces, ensuring it is lightweight yet durable.

References

- **User Manual**