Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Gioyonil YYM04

Gioyonil 12V-48V Waterproof Battery Disconnect Switch Master (Model YYM04) Instruction Manual

1. Product Overview

The Gioyonil Battery Disconnect Switch Master (Model YYM04) is a robust, waterproof power isolator designed for 12V-48V electrical systems. It provides a reliable method to disconnect power, preventing battery drain, electrical fires, and unauthorized use in various vehicles and marine applications. This switch is rated for high current applications up to 275 Amps.

Key Features:

- **Voltage Compatibility:** Operates with 12V to 48V DC systems.
- **High Current Rating:** Supports continuous current up to 275 Amps.
- **Waterproof Design:** Suitable for marine and outdoor environments.
- **Durable Construction:** Features a robust ABS plastic housing.
- **Copper Terminal Studs:** Brass terminals with tin plating for excellent conductivity and corrosion resistance.
- **Simple Operation:** Rotary style with clear ON/OFF positions.
- **Mounting:** Designed for surface mount installation.

2. Safety Information

Always observe the following safety precautions when installing or operating the battery disconnect switch:

- **Disconnect Power:** Before installation, ensure all power sources are disconnected to prevent electrical shock or short circuits.
- **Wear Protective Gear:** Use appropriate personal protective equipment, including safety glasses and gloves.
- **Proper Tools:** Use insulated tools to avoid accidental contact with live terminals.
- **Ventilation:** Ensure adequate ventilation when working with batteries, as they can produce explosive gases.
- **Correct Wiring:** Follow all wiring diagrams and ensure connections are secure and correctly polarized. Incorrect wiring can cause damage to the switch, battery, or vehicle.
- **Avoid Overload:** Do not exceed the maximum current rating of 275 Amps.

3. Package Contents

Verify that all items are present in the package before beginning installation.



Figure 3.1: Battery Disconnect Switch Components

- 1x Gioyonil Battery Disconnect Switch
- 4x Mounting Bolts with Nuts and Washers
- 1x Backplate
- 4x Side Pads (for dust and waterproofing)

4. Setup and Installation

4.1 Mounting the Switch

The switch is designed for surface mounting. Choose a location that is easily accessible, dry, and protected from direct impact. Ensure sufficient space for wiring connections.



Figure 4.1: Backplate Removal for Mounting

1. Separate the backplate from the switch body.
2. Use the backplate as a template to mark the drilling locations on the mounting surface.
3. Drill pilot holes as needed.
4. Secure the switch body to the surface using the provided mounting bolts, nuts, and washers. Ensure a tight fit.
5. Attach the side pads for enhanced dust and waterproofing.

4.2 Wiring Diagrams and Connection

The switch is typically installed on the negative or positive cable of the battery, depending on the specific application and safety requirements. Always consult a professional if unsure about wiring.

Easy Installation with Provided Screw Sets

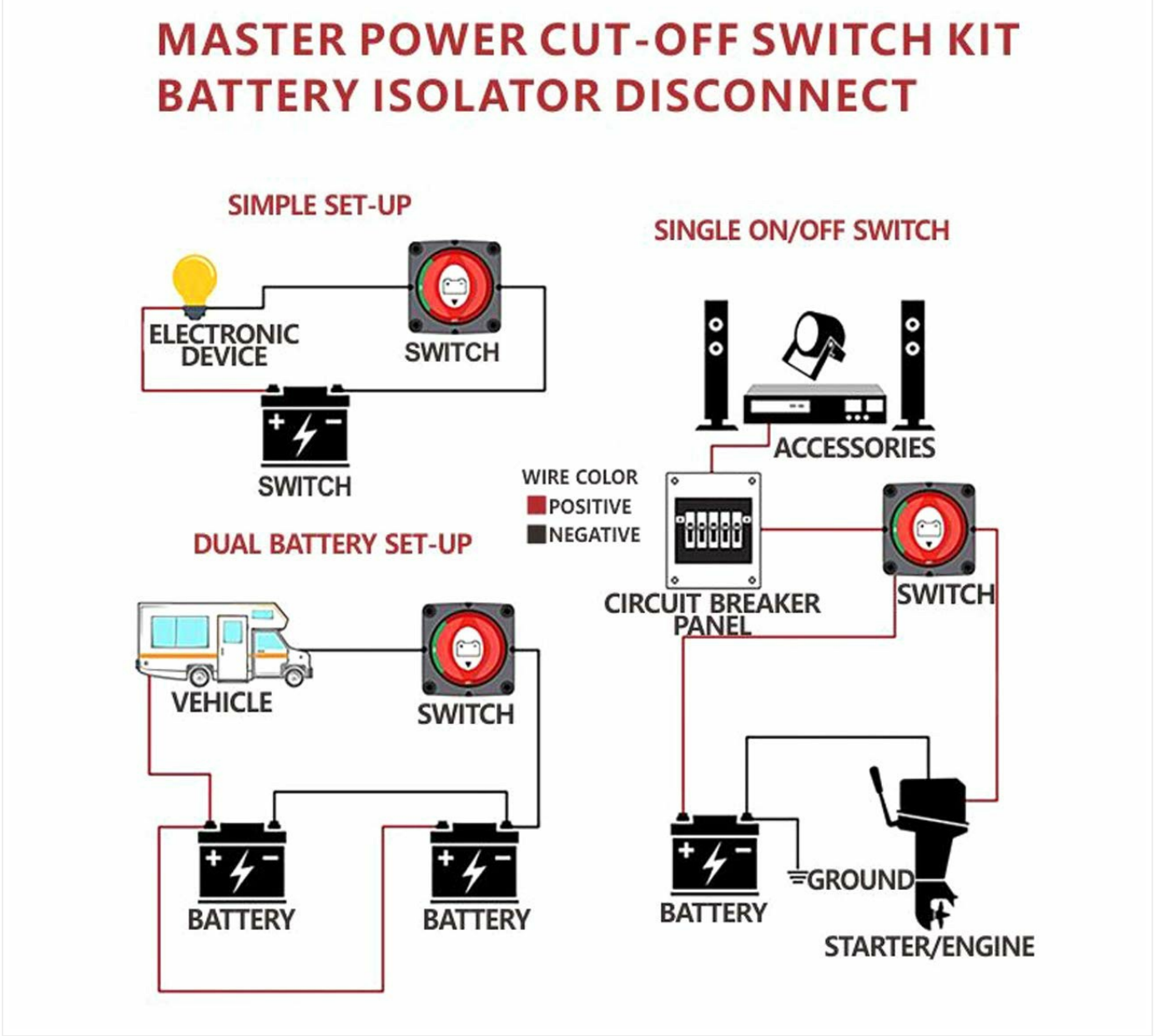


Figure 4.2: Common Wiring Configurations

- **Simple Setup:** Connect the switch in series with the positive cable between the battery and the electronic device.
- **Single On/Off Switch for Accessories:** Integrate the switch into the positive line feeding a circuit breaker panel for accessories.
- **Dual Battery Setup:** Use the switch to isolate one or both batteries from the vehicle's electrical system.
- **Starter/Engine Disconnect:** Install the switch on the positive cable leading to the starter or engine to completely cut off power.

Ensure all cable connections to the switch terminals are clean, tight, and properly insulated. Use appropriate gauge wiring for your application to handle the current load.

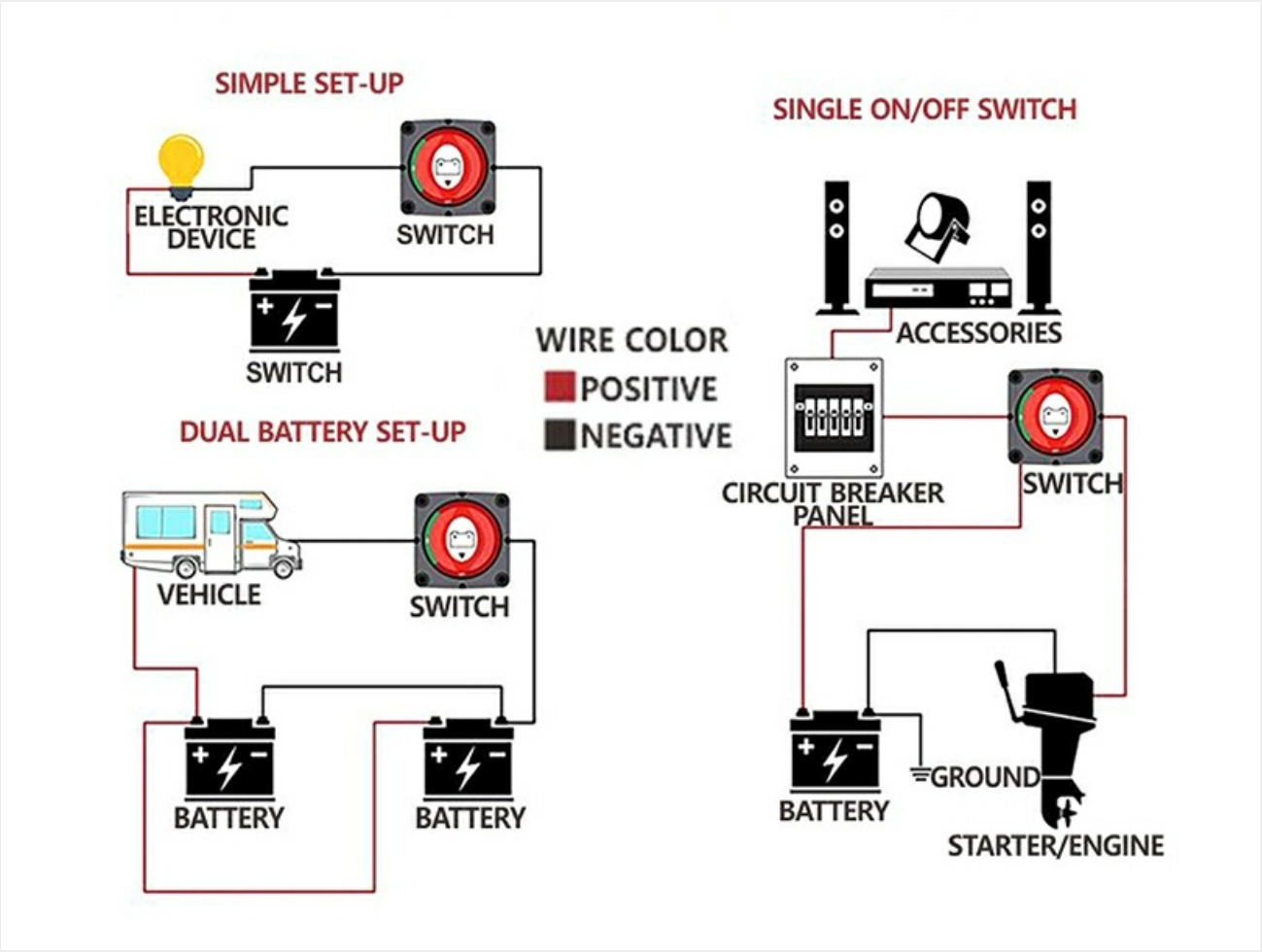


Figure 4.3: Example Installation

5. Operating Instructions

The Gioyonil Battery Disconnect Switch features a simple rotary operation with two distinct positions:

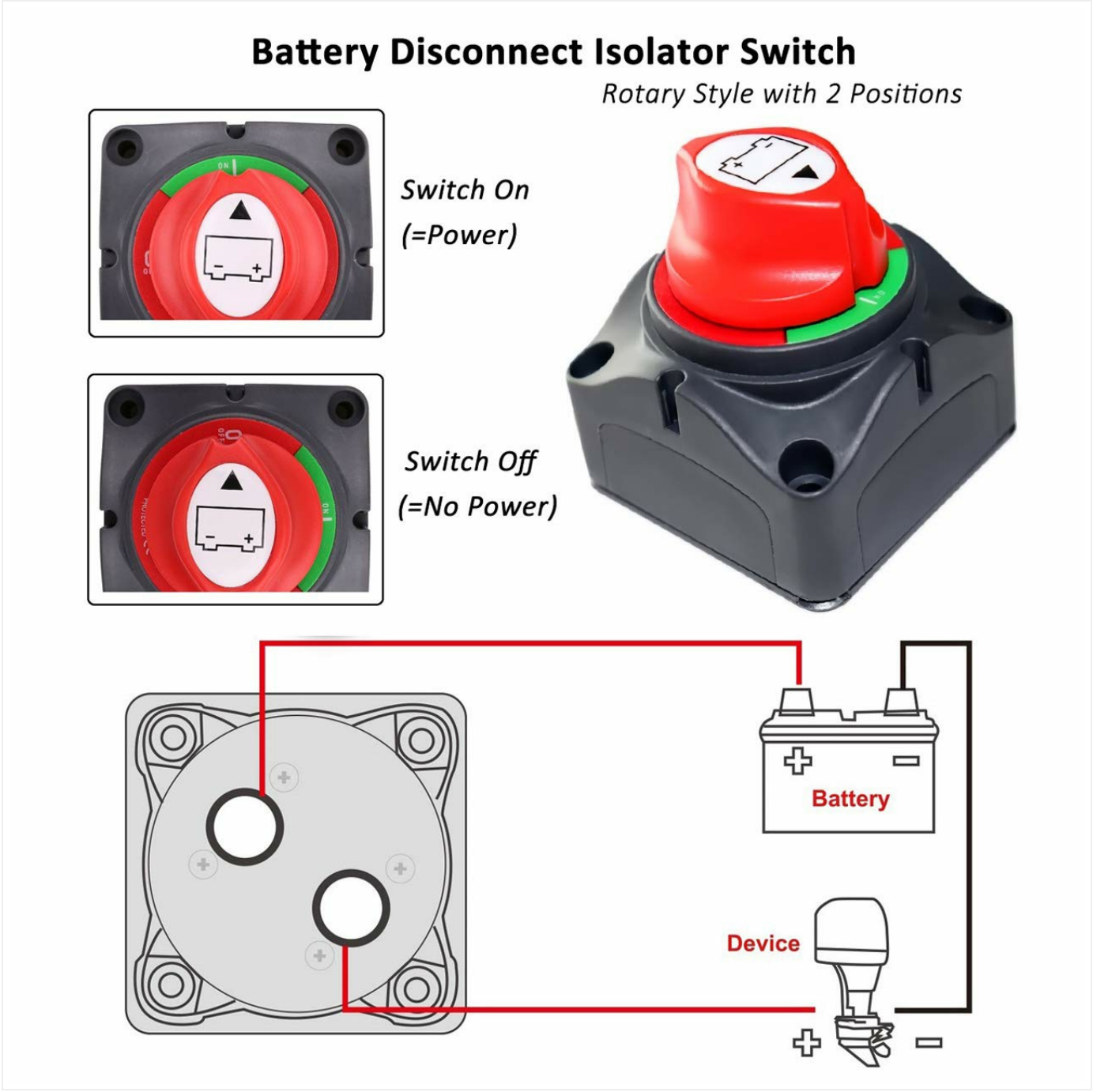


Figure 5.1: Switch ON/OFF Positions

- **ON Position (Green Indicator):** Rotate the knob to the position marked with a battery icon and a positive sign. In this position, power is connected, and the electrical system is active.
- **OFF Position (Red Indicator):** Rotate the knob to the position marked with a crossed-out battery icon. In this position, power is disconnected, isolating the battery from the electrical system.

Always ensure the switch is in the OFF position when performing maintenance, storing the vehicle for extended periods, or to prevent unauthorized use.



Figure 5.2: Safety Protection in Use

6. Maintenance

Regular maintenance helps ensure the longevity and reliable operation of your battery disconnect switch:

- **Inspect Connections:** Periodically check all electrical connections to ensure they are tight and free from corrosion. Loose connections can cause resistance and heat buildup.
- **Clean Terminals:** If corrosion is present, disconnect power and clean the terminals using a wire brush and a baking soda solution. Rinse with water and dry thoroughly.
- **Check Housing:** Inspect the switch housing for any signs of damage, cracks, or wear that could compromise its waterproof integrity.
- **Keep Clean:** Wipe down the switch exterior with a damp cloth to remove dirt and debris.

7. Troubleshooting

If you encounter issues with your battery disconnect switch, refer to the following table:

Problem	Possible Cause	Solution
No power to electrical system when switch is ON.	Loose or corroded connections; Faulty wiring; Discharged battery; Internal switch failure.	Check and tighten all connections; Clean corroded terminals; Verify battery charge; Test switch continuity with a multimeter.
Switch feels stiff or difficult to turn.	Dirt or debris in mechanism; Internal damage.	Clean around the rotary knob; Do not force the switch; If problem persists, consider replacement.
Switch gets hot during operation.	Overload (exceeding 275 Amps); Loose or corroded connections; Undersized wiring.	Reduce electrical load; Check and tighten connections; Ensure appropriate wire gauge is used for the current draw.

8. Specifications

Specification	Value
Model Number	YYM04
Operating Voltage	12V - 48V DC
Current Rating	275 Amps (Continuous)
Operation Mode	On-Off
Contact Type	Normally Open
Connector Type	Clamp (Terminal Studs)
Mounting Type	Surface Mount
Product Dimensions (L x W x H)	2.67 x 2.67 x 2.2 inches (68 x 68 x 56 mm)
Item Weight	3.53 ounces (100 grams)
Manufacturer	SealPro X

9. Warranty and Support

Gioyonil is committed to providing reliable products and customer satisfaction. For any questions, concerns, or support needs regarding your Battery Disconnect Switch, please contact our customer support team. We offer hassle-free replacement or return services and aim to provide 24-hour customer support.
Please refer to your purchase documentation or the retailer's website for specific warranty terms and contact information.

Ask a question about this manual

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

Open the live page

https://manuals.plus/asin/B09ZNNHVWK

More documents and user manuals: **https://manuals.plus/**