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Ejoyous Ejoyousq3yc5gwp0d

Battery Switch Instruction Manual

Brand: Ejoyous

Model: Ejoyousq3yc5gwp0d

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Ejoyous 300A 3 Position Dual Circuit Battery Power Disconnect Cut Off Isolator. This robust battery switch is designed for safe and efficient power management in marine, automotive, RV, and other vehicle applications, allowing for the isolation of battery banks to prevent power drain and ensure safety.



Figure 1.1: Front view of the Ejoyous 300A Battery Switch, showing the rotary selector and OFF-1-2 positions.

2. FEATURES

- **Powerful Function:** A 3-position (OFF-1-2), 3-stud dual-circuit battery switch designed to switch a single battery to a single load group. Ideal for marine or RV applications.
- **Flexible Installation:** Ignition protected for safe installation aboard gasoline-powered boats. The case design supports versatile mounting options including surface, front panel, or rear panel installation.
- **Good Conductivity:** Constructed with an isolating ABS plastic shell and a red copper plated silver inner core to ensure maximum electrical conductivity and durability.
- **Stable Performance:** The 300A continuous current rating allows for effective isolation of potentially destructive energy within battery banks, crucial when the vehicle or vessel is not in use or during emergency situations.
- **Circuit Identification:** Clearly labeled with OFF-1-2 positions on the rotary actuator, providing intuitive control. The unit boasts an IP66 rating for protection against dust and powerful water jets.
- **Wide Application:** This 3-position battery disconnect switch safely disconnects the battery, eliminating parasitic power draw. It

is widely applicable for marine vessels, boats, yachts, cars, trucks, trailers, and RVs.



Isolating ABS plastic shell
Red copper plated silver inner core for maximum conductivity.

Figure 2.1: The battery switch featuring an isolating ABS plastic shell and red copper plated silver inner core for optimal conductivity, shown with a boat application.



Rotary actuator, IP66 waterproof protection

Figure 2.2: The battery switch with its rotary actuator and IP66 waterproof protection, suitable for marine environments like yachts.

3. SPECIFICATIONS

Attribute	Value
Continuous Current	300A (500A for 5 min, 900A for 30 sec)
Maximum Voltage	32V DC
Line Post	3xM10
Gear Position	3 positions (OFF-1-2)
Type	Normally Closed

Attribute	Value
Circuit Type	2-way
Mounting Type	Panel Mount (Surface, Front Panel, Rear Panel)
Actuator Type	Rotary
International Protection Rating	IP66
Operation Mode	Manual
Contact Type	Normally Closed
Connector Type	Screw Terminal
Terminal	Screw
Number of Positions	3
Package Dimensions	4.33 x 3.94 x 3.54 inches; 12.42 ounces
Item Model Number	Ejoyousq3yc5gwp0d
Manufacturer	Ejoyous



Figure 3.1: Detailed dimensions of the battery switch, providing measurements for installation planning.



Figure 3.2: View of the battery switch's base, showing the three M10 line posts and the removable casing for mounting flexibility.

4. SETUP AND INSTALLATION

The Ejoyous battery switch is designed for direct installation and use. Proper installation is crucial for safety and optimal performance. It can be mounted on a surface, front panel, or rear panel depending on your application's requirements.

4.1 Safety Precautions

- Always disconnect all power sources before attempting installation or maintenance.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the installation area is well-ventilated.
- Verify all connections are secure and properly insulated to prevent short circuits.
- This switch is ignition protected, making it suitable for gasoline-powered boat installations, but always follow specific marine electrical standards.

4.2 Mounting

The switch's case design allows for flexible mounting. Choose a location that is dry, easily accessible, and protected from physical damage. Use appropriate fasteners (not included) for your chosen mounting surface.

4.3 Wiring Connections

The switch features three M10 line posts for electrical connections. Refer to the wiring diagram below for typical configurations. Ensure all cable lugs are properly crimped and connections are tightened to the specified torque to ensure maximum conductivity and prevent overheating.



Figure 4.1: Top and bottom views of the battery switch, illustrating the 3-stud design for wiring connections.



Figure 4.2: Side view of the battery switch, showing the robust screw terminal connection point.

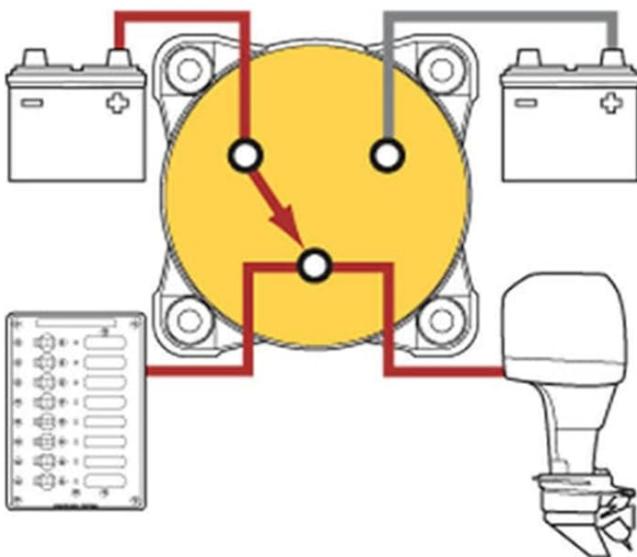
5. OPERATING INSTRUCTIONS

The Ejoyous battery switch features a simple rotary actuator with three positions: OFF, 1, and 2. These positions allow for control over your battery banks and connected loads.

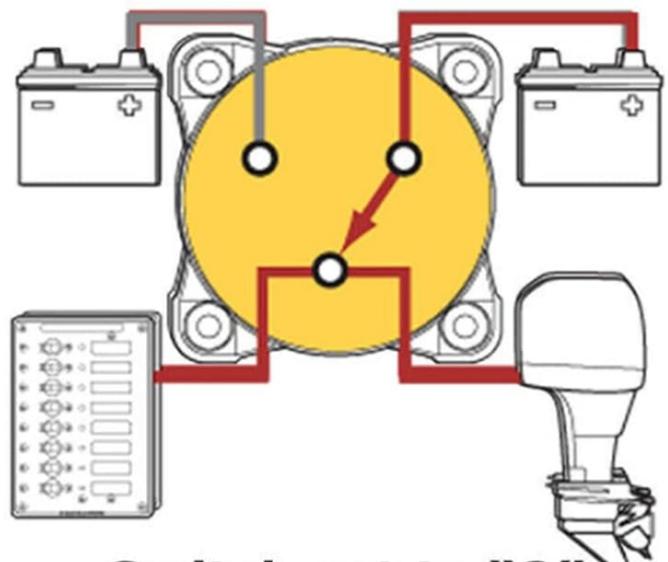
- **OFF Position:** In this position, all battery banks are disconnected from the load. This is the safest position for storage, maintenance, or in emergency situations to completely isolate power.
- **Position 1:** Connects Battery Bank 1 to the load group. Use this position for normal operation when drawing power from the first battery.
- **Position 2:** Connects Battery Bank 2 to the load group. Use this position for normal operation when drawing power from the second battery, or to switch to an auxiliary battery.

To switch between positions, simply rotate the knob to the desired setting. Ensure the switch clicks firmly into place for a secure connection.

Switch InSTRUCTION



Switch set to "1"



Switch set to "2"

Figure 5.1: Wiring instruction diagram illustrating how the switch connects battery banks to the load group in Position 1 and Position 2.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your Ejoyous battery switch.

- **Periodic Inspection:** Visually inspect the switch and its connections regularly for any signs of corrosion, loose wiring, or physical damage.
- **Terminal Cleaning:** If corrosion is present on the terminals, disconnect power and carefully clean them using a wire brush and a suitable battery terminal cleaner. Re-tighten all connections after cleaning.
- **Environmental Protection:** Although the switch is IP66 rated, minimizing exposure to extreme moisture or corrosive environments will extend its lifespan.
- **Functionality Check:** Periodically test the switch by rotating it through all positions (OFF, 1, 2) to ensure smooth operation and proper circuit engagement.

7. TROUBLESHOOTING

If you encounter issues with your battery switch, consider the following common troubleshooting steps:

- **No Power to Loads:**

- Ensure the switch is not in the "OFF" position.
- Check battery voltage to confirm batteries are charged.
- Inspect all wiring connections for looseness or corrosion.
- Verify that fuses or circuit breakers in the system are not tripped or blown.

- **Intermittent Power:**

- Tighten all terminal connections on the switch and throughout the circuit.
- Check for damaged or frayed wiring that might be causing intermittent contact.
- Ensure the switch knob is fully engaged in the desired position.

- **Switch is Stiff or Hard to Turn:**

- Apply a small amount of dielectric grease to the rotary mechanism if accessible, ensuring not to get it on electrical contacts.
- Ensure no debris is obstructing the movement of the knob.

If problems persist after performing these checks, it is recommended to consult a qualified electrician or marine technician.

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Ejoyous Battery Switch, please refer to the product packaging or contact the manufacturer directly through their official website or customer service channels. Keep your purchase receipt as proof of purchase for any warranty claims.