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Model: SW710

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Buyers Products SW710 50 Amp Rotary Switch. Please read this manual thoroughly before use and retain it for future reference.

The Buyers Products SW710 50 Amp Rotary Switch is designed to control the forward and reverse motion of a 12-volt motor without requiring an external relay. It is commonly used in 12-volt truck and trailer tarp systems.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Disconnect power before installation or servicing.

- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Verify the power source voltage and current rating are compatible with the switch specifications (12-volt, 50 Amp).
- Do not exceed the maximum current rating of 50 Amps.
- Installation should be performed by a qualified technician if you are unfamiliar with automotive electrical systems.

3. SPECIFICATIONS

Feature	Detail
Model Number	SW710
Brand	Buyers Products

Current Rating	50 Amps
Voltage	12-volt DC
Operation Mode	ON-OFF-ON (Momentary)
Switch Type	Rotary
Number of Positions	3 (Forward, Off, Reverse)
Circuit Type	3-way
Terminals	4 screw terminals with silver laminated contacts
Mounting Threads	M12 x 1.0
Case Material	Zinc plated steel
Dimensions (L x W x H)	9.14 x 5.84 x 5.72 cm (approx. 3.6 x 2.3 x 2.25 inches)
Weight	168 g (approx. 0.37 lbs)
Included Components	Rotary Switch, screws, washers, aluminum name plate
IP Rating	IP00 (No protection against dust or water)

4. PRODUCT COMPONENTS

The Buyers Products SW710 Rotary Switch includes the following main components:

- **Rotary Switch Body:** Zinc plated steel case housing the internal mechanism.
- **Actuator Handle:** For selecting ON-OFF-ON positions.
- **Terminals:** Four screw terminals with silver laminated contacts for electrical connections.
- **Mounting Hardware:** Includes screws and washers for installation.
- **Name Plate:** Aluminum name plate for labeling.



Image 4.1: Front view of the SW710 Rotary Switch, showing the actuator handle and the "UNWIND" and "WIND" labels.

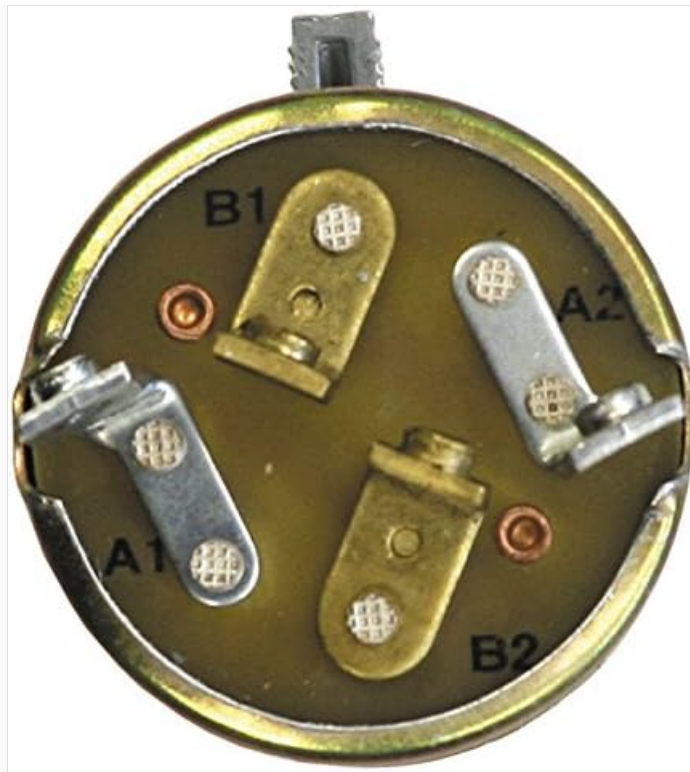


Image 4.2: Rear view of the SW710 Rotary Switch, illustrating the four screw terminals for wiring connections.

5. INSTALLATION AND SETUP

Follow these steps for proper installation of the rotary switch:

1. **Disconnect Power:** Before beginning any electrical work, ensure that the power supply to the motor system is completely disconnected to prevent electrical shock.
2. **Mounting Location:** Select a suitable mounting location that is easily accessible and protected from excessive moisture or physical damage. The switch has an IP00 rating, meaning it offers no protection against dust or water ingress.
3. **Drill Mounting Hole:** Drill a hole of appropriate size (M12 x 1.0 thread) for the switch shaft. Ensure the hole is clean and free of burrs.
4. **Secure the Switch:** Insert the switch into the drilled hole. Use the provided washers and nut to secure the switch firmly to the mounting surface. Attach the aluminum name plate if desired.
5. **Wiring Connections:** The switch features 4 screw terminals. Connect the 12-volt power supply and motor wires to these terminals according to the wiring diagram for your specific application (e.g., truck/trailer tarp system). Ensure all connections are tight and properly insulated. Typically, two terminals are for power input and two for motor output, allowing for forward and reverse operation.
6. **Verify Connections:** Double-check all wiring connections for correctness and security before restoring power.
7. **Restore Power:** Once installation is complete and verified, restore power to the system.

Your browser does not support the video tag.

Video 5.1: This video demonstrates the general appearance and function of a heavy-duty 50A 12V rotary switch, similar to the SW710, often used in applications like dump trucks. It provides a visual reference for the product type and its intended use.

6. OPERATING INSTRUCTIONS

The SW710 Rotary Switch provides ON-OFF-ON momentary control for 12-volt motors.

- **OFF Position:** The center position of the rotary handle is the OFF position. In this position, no power is supplied to the motor.
- **Forward/Wind Position:** Rotate the handle to one side (e.g., "WIND" as indicated on the name plate) to activate the motor in one direction. This is a momentary action; the handle will return to the OFF position when released.
- **Reverse/Unwind Position:** Rotate the handle to the opposite side (e.g., "UNWIND" as indicated on the name plate) to activate the motor in the reverse direction. This is also a momentary action; the handle will return to the OFF position when released.

CAUTION: Always ensure the motor is clear of obstructions before operating. Avoid holding the switch in an ON position for extended periods if the motor is stalled or under excessive load, as this can cause overheating and damage.

7. MAINTENANCE

The Buyers Products SW710 Rotary Switch is designed for durability and requires minimal maintenance. However, regular checks can extend its lifespan and ensure reliable operation:

- **Visual Inspection:** Periodically inspect the switch for any signs of physical damage, corrosion, or loose connections.
- **Terminal Tightness:** Ensure all screw terminals remain tight. Loose connections can lead to resistance, heat buildup, and potential failure.
- **Cleaning:** Keep the switch clean and free of dirt, dust, and debris. Use a dry cloth for cleaning. Avoid using harsh chemicals or solvents.
- **Environmental Protection:** As the switch has an IP00 rating, consider installing it in an enclosure or a location protected from direct exposure to water, excessive dust, or harsh weather conditions.

8. TROUBLESHOOTING

If you experience issues with your SW710 Rotary Switch, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Motor does not operate in either direction.	No power to the switch, loose wiring, faulty motor, blown fuse/circuit breaker.	Check power supply, inspect all wiring connections, test the motor independently, check and replace fuse/reset breaker.
Motor operates in only one direction.	Incorrect wiring for one direction, internal switch fault.	Review wiring diagram and correct connections. If wiring is correct, the switch may be faulty and require replacement.
Switch feels stiff or difficult to rotate.	Accumulation of dirt/debris, internal mechanism issue.	Clean the switch exterior. If the issue persists, the switch may need replacement. Do not force the handle.
Switch or wires become hot during operation.	Overload, loose connections, undersized wiring.	Ensure current draw does not exceed 50 Amps. Tighten all connections. Verify wire gauge is appropriate for the current load.

If troubleshooting steps do not resolve the issue, contact Buyers Products customer support or a qualified technician.

9. WARRANTY INFORMATION

Buyers Products offers a limited warranty on its products. For specific warranty terms and conditions, please refer to the official Buyers Products website or contact their customer service department. Keep your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, replacement parts, or further inquiries, please contact Buyers Products directly:

- **Website:** www.buyersproducts.com
- **Manufacturer Contact Information:** MENTOR, OH, 44060 US