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> wriboard 50 Amp Generator Transfer Switch Kit User Manual

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Model: 50 Amp Generator Transfer Switch Kit

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your wriboard 50 Amp Generator Transfer Switch Kit. This intelligent control system ensures seamless power management by automatically switching to generator power during outages and back to the main supply when restored. Please read this manual thoroughly before installation and operation to ensure safe and efficient use.

1.1 What's in the Box

- 1 x 50 Amp Automatic Transfer Switch Kit
- 1 x SS2-50P Power Inlet Box
- Assorted Circuit Breakers (1x 2-pole 50A, 3x 1/2-pole 20A, 1x 2-pole 30A, 6x 1-pole 15A)
- Wiring and Conduit (as pictured)



Figure 1: Overview of the wriboard 50 Amp Generator Transfer Switch Kit components, including the main transfer switch panel, SS2-50P power inlet box, various circuit breakers, and wiring.

2. SAFETY INFORMATION

WARNING: Installation and servicing of this equipment must be performed by a qualified electrician. Failure to follow these instructions may result in serious injury, death, or property damage.

- Always disconnect power before working on electrical equipment.
- Ensure all local and national electrical codes are followed during installation.
- Do not operate the transfer switch if it appears damaged.
- Keep children and unauthorized personnel away from the installation area.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.

3. PRODUCT OVERVIEW

The wriboard 50 Amp Generator Transfer Switch Kit is designed for reliable and safe power transfer between utility and generator sources. It features a robust NEMA 3R/IP67 rated enclosure for outdoor use and a comprehensive set of circuit breakers to protect your electrical system.

3.1 Key Features

- **Automatic Power Change Mode:** Seamlessly switches power sources during outages.
- **Multiple Circuit Breakers:** Includes 1x 2-pole 50A, 3x 1/2-pole 20A, 1x 2-pole 30A, and 6x 1-pole 15A breakers for comprehensive circuit protection.
- **Durable Construction:** High-strength zinc steel with specialized coating, NEMA 3R/IP67 waterproof rating for harsh environments.
- **SS2-50P Power Inlet Box:** Facilitates direct generator power transmission to your home.
- **Compatibility:** Supports generators up to 12,500W.

interchanged/reconfigured

You can choose between 30 amp and 50 amp versions.

11 circuit breakers in total

- * 1 x 2 pole 50A
- * 3 x 1/2 pole 20A
- * 1 x 2 pole 30A
- * 6 x 1 pole 15A



Figure 2: Illustration of the 11 circuit breakers included, detailing their types (1x 2-pole 50A, 3x 1/2-pole 20A, 1x 2-pole 30A, 6x 1-pole 15A) and their placement within the transfer switch panel.



Optional Power Inlet

**NEMA 3R enclosure
IP67 waterproof rating
Can be used in any weather**



high quality

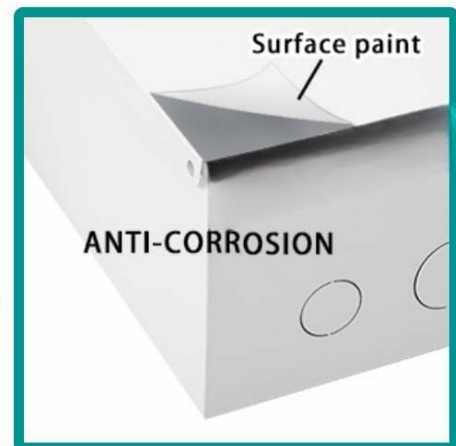


Figure 3: Demonstrates the NEMA 3R enclosure and IP67 waterproof rating, highlighting the robust construction designed for outdoor use in various weather conditions.

4. INSTALLATION

The installation of the wriboard 50 Amp Generator Transfer Switch Kit requires careful attention to electrical codes and safety procedures. It is recommended that a qualified electrician performs the installation.

4.1 Pre-Installation Checklist

- Verify that the generator's output matches the transfer switch's capacity (up to 12,500W).
- Ensure the installation location is suitable for a NEMA 3R/IP67 rated enclosure.
- Gather all necessary tools and materials (e.g., conduit, wiring, mounting hardware).
- Turn off the main utility power supply at the service panel.

4.2 Mounting the Transfer Switch and Power Inlet Box

1. Select a suitable outdoor location for both the transfer switch panel and the SS2-50P power inlet box. They should be mounted securely to a wall or sturdy surface.
2. Ensure the power inlet box is easily accessible for generator connection and the transfer switch is near your main electrical panel.
3. Use appropriate mounting hardware for the chosen surface.



Figure 4: Illustrates a typical outdoor installation, showing the transfer switch mounted on a wall and the SS2-50P power inlet box connected via conduit, ready to receive power from a portable generator.

4.3 Wiring Connections

Refer to the wiring diagram provided with the product for specific connections. The transfer switch has clear line markings for utility (Electric Supply) and generator (Generator) inputs, as well as load outputs.

- Connect the utility power lines to the "Electric Supply" terminals.
- Connect the generator power lines from the SS2-50P inlet box to the "Generator" terminals.
- Connect the circuits you wish to power during an outage from your main panel to the load terminals of the transfer

switch's circuit breakers.

- Ensure all connections are tight and properly insulated.

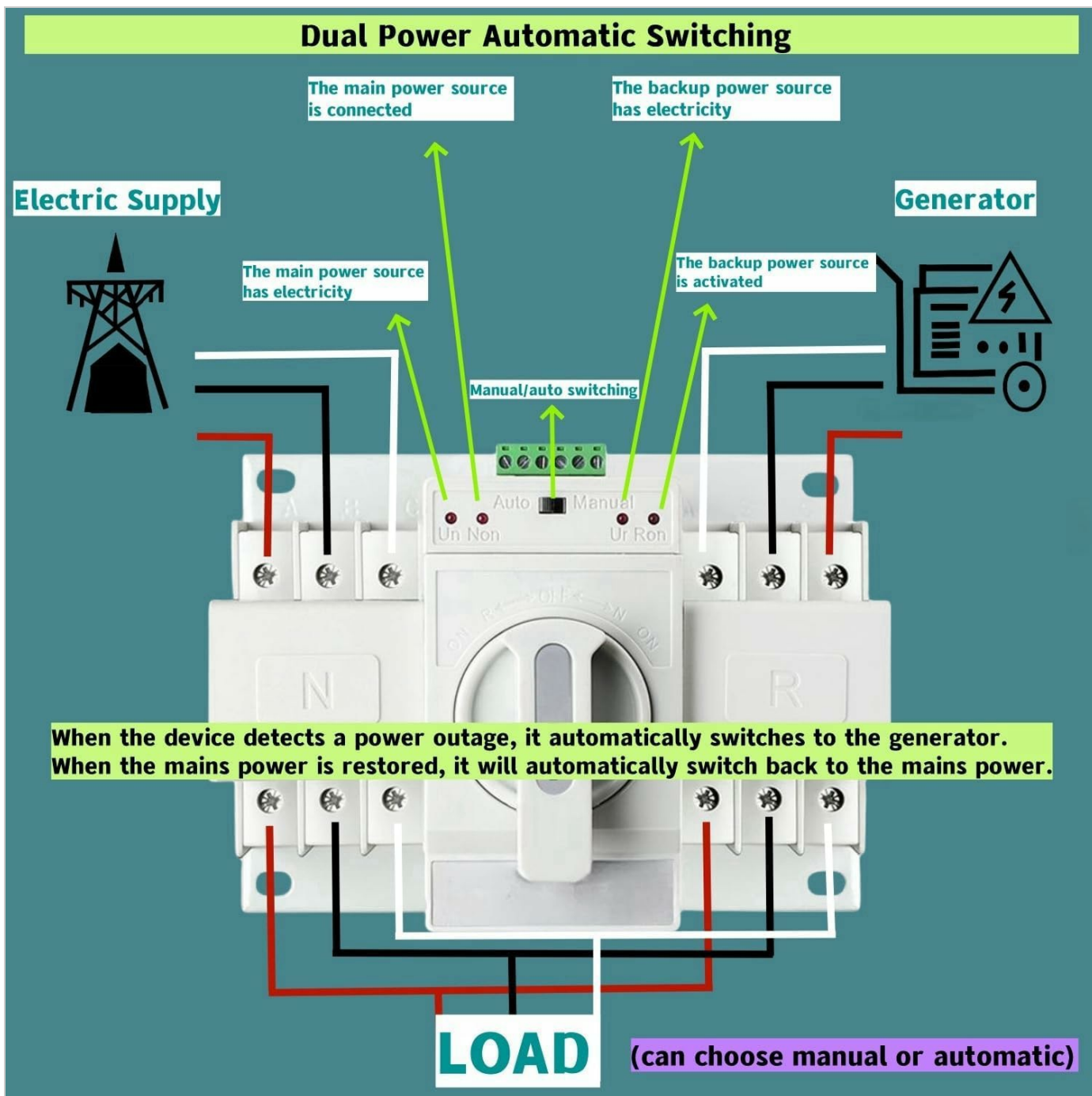


Figure 5: Detailed wiring diagram showing connections for main power, generator power, and load. It illustrates the manual/auto switching mechanism and how the device detects power outages and restores power.



Safe light indicator

NEMA SS2-50P

Figure 6: Close-up of the SS2-50P power inlet box, highlighting its NEMA SS2-50P receptacle and the integrated safe light indicator, which confirms power presence.

5. OPERATING INSTRUCTIONS

The wriboard transfer switch offers both automatic and manual power change modes.

5.1 Automatic Power Change Mode

1. Ensure the transfer switch is set to "Auto" mode.
2. When the main utility power supply is disrupted, the transfer switch will automatically detect the outage.
3. The system will then switch to generator power, provided a generator is connected to the SS2-50P inlet box and is running.
4. Once the main utility power returns, the transfer switch will seamlessly transition back to the primary power source.

5.2 Manual Power Change Mode

1. To manually switch between power sources, ensure the generator is running and connected.
2. Carefully operate the manual switch lever on the transfer switch panel to select either "Electric Supply" or "Generator" as the power source.
3. Always ensure the load is disconnected or reduced before switching manually to prevent damage.

5.3 Circuit Breaker Operation

- The included circuit breakers protect individual circuits from overload and short circuits.
- If a circuit breaker trips (moves to the "OFF" position), disconnect the overloaded device, then reset the breaker by pushing it fully to "OFF" and then to "ON".
- Do not force a breaker that repeatedly trips; investigate the cause of the overload.

6. MAINTENANCE

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

- **Annual Inspection:** Have a qualified electrician inspect the transfer switch and all connections annually.
- **Cleaning:** Keep the exterior of the enclosure clean and free from debris. Do not use abrasive cleaners.
- **Connection Checks:** Periodically check all wiring connections for tightness and signs of corrosion.
- **Functionality Test:** Test the automatic transfer function periodically by simulating a power outage (if safe to do so and with proper precautions).

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For complex problems, contact customer support or a qualified electrician.

Problem	Possible Cause	Solution
No power from generator	Generator not running, fuel low, generator circuit breaker tripped, transfer switch not in generator mode.	Check generator operation, fuel level, generator breaker, and transfer switch mode.
No power from utility	Utility outage, main breaker tripped, transfer switch not in utility mode.	Verify utility status, check main breaker, ensure transfer switch is in utility mode (or auto).
Individual circuit has no power	Circuit breaker tripped.	Reset the tripped circuit breaker. Reduce load on the circuit if it trips again.
Transfer switch does not switch automatically	Switch is in manual mode, control wiring issue.	Ensure the switch is set to "Auto" mode. Contact support if the issue persists.

8. SPECIFICATIONS

Product Dimensions: 15.72 x 6.12 x 21.43 inches

Weight: 22.95 Pounds

Model Number: 50 Amp Generator Transfer Switch Kit

Brand: wriboard

Material: Alloy Steel

Number Of Circuits: 11

Phase Type: Three Phase

Waterproof Rating: NEMA 3R / IP67

Max Generator Wattage: 12,500W

9. WARRANTY AND CUSTOMER SUPPORT

wriboard offers a **2-year product warranty** for your 50 Amp Generator Transfer Switch Kit. We also provide **lifetime technical support** to ensure the safety and reliability of your electrical system.

Our **24-hour customer service team** is available to assist with any issues or inquiries. Please refer to your product packaging or the wriboard website for contact information.

