

Reliance Controls 31410B

Reliance Controls 31410B Pro/Tran 10-Circuit 30-Amp Indoor Generator Transfer Switch User Manual

Model: 31410B

1. INTRODUCTION

The Reliance Controls 31410B Pro/Tran Transfer Switch is designed to safely connect a portable generator to your home's electrical system, providing backup power during utility outages. This indoor transfer switch allows you to power up to 10 circuits directly from your generator, ensuring essential appliances and lighting remain operational. It prevents dangerous backfeeding into the utility grid, protecting both your home and utility workers.

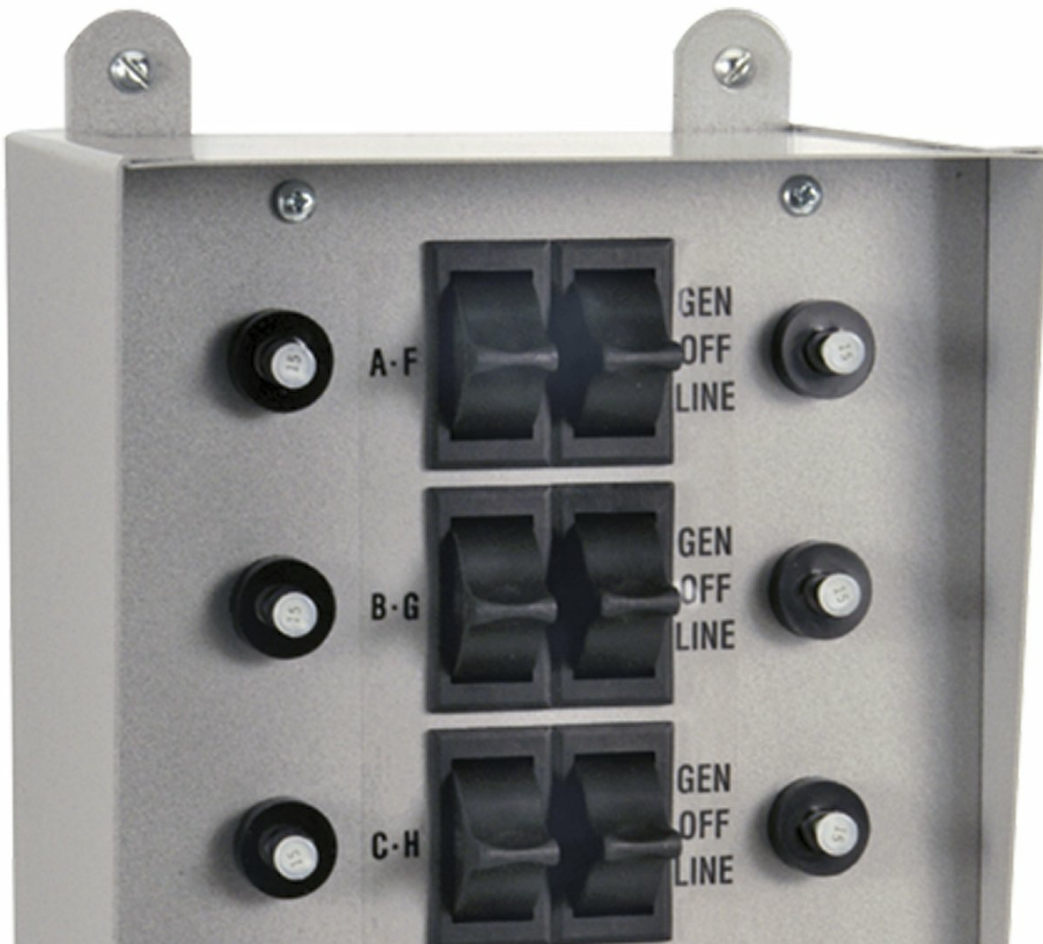




Figure 1: Reliance Controls 31410B Pro/Tran 10-Circuit 30-Amp Indoor Generator Transfer Switch.

2. SAFETY INFORMATION

WARNING: Installation of this transfer switch involves working with high voltage electricity. Improper installation can result in serious injury, death, or property damage. It is strongly recommended that installation be performed by a qualified electrician in accordance with all national and local electrical codes.

- Always disconnect power at the main service panel before performing any wiring or maintenance.
- Ensure the generator is turned off and disconnected from the transfer switch before working on the electrical system.
- Never operate a generator indoors or in enclosed spaces. Generators produce carbon monoxide, a colorless, odorless, and deadly gas.
- Ensure proper grounding for both the generator and the transfer switch.
- Do not overload the transfer switch or individual circuits. Refer to the specifications for maximum wattage.



Figure 2: Professional installation is recommended for electrical safety.

3. SETUP AND INSTALLATION

The Reliance Controls 31410B transfer switch is designed for indoor installation. It features an 18-inch flexible conduit whip for easy attachment to your existing load center (main electrical panel).

3.1 Pre-Installation Checklist

- **Location:** Choose a dry, accessible indoor location near your main electrical panel.
- **Generator Compatibility:** Ensure your generator is rated for up to 7,500 maximum running watts.
- **Tools Required:** Basic electrical tools, including screwdrivers, wire strippers, voltage tester, and possibly a drill for mounting.
- **Circuit Selection:** Identify the 10 circuits you wish to power during an outage. Consider essential items like refrigerators, lights, and furnace fans.

3.2 Mounting the Transfer Switch

1. Position the transfer switch on a wall or suitable surface near the main electrical panel.
2. Mark the mounting holes and secure the unit using appropriate fasteners.

3.3 Wiring Connections

The transfer switch comes with pre-wired circuits. The 18-inch flexible conduit whip connects directly to your main electrical panel. Each circuit in the transfer switch is clearly labeled for connection to the corresponding circuit in your main panel.

- Connect the flexible conduit whip to an available knockout on your main electrical panel.
- Carefully follow the wiring diagram provided in the full product manual for connecting each circuit wire from the transfer switch to the appropriate circuit breaker in your main panel.
- Ensure all connections are secure and properly insulated.



4. OPERATING INSTRUCTIONS

This section outlines the procedure for safely transferring power from utility to generator and back.

4.1 Transferring to Generator Power

1. **Prepare Generator:** Start your portable generator and allow it to warm up for a few minutes.
2. **Connect Generator:** Plug the generator power cord into the power inlet box (sold separately) connected to your transfer switch.
3. **Select Circuits:** On the transfer switch, move the toggle switches for the desired circuits from the 'LINE' (utility) position to the 'GEN' (generator) position. You can select up to 10 single-pole circuits or 5 double-pole circuits.
4. **Monitor Load:** Avoid overloading the generator. Distribute the load across the generator's output as evenly as possible.

4.2 Transferring to Utility Power

1. **Disconnect Generator:** Once utility power is restored, move all toggle switches on the transfer switch from 'GEN' back to 'LINE'.
2. **Shut Down Generator:** Turn off your portable generator and disconnect the power cord from the inlet box.

5. MAINTENANCE

The Reliance Controls 31410B transfer switch requires minimal maintenance. Regular inspection is recommended to ensure safe and reliable operation.

- **Annual Inspection:** Have a qualified electrician inspect the transfer switch and all connections annually.
- **Cleanliness:** Keep the transfer switch free from dust, dirt, and moisture. Use a dry cloth for cleaning.
- **Test Operation:** Periodically test the transfer switch by simulating a power outage (if safe to do so) to ensure all circuits switch correctly.

6. TROUBLESHOOTING

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

- **No Power to Circuits:**
 - Ensure the generator is running and producing power.
 - Check that the generator power cord is securely connected to both the generator and the inlet box.
 - Verify that the circuit breakers on the generator are not tripped.
 - Confirm that the toggle switches on the transfer switch are in the 'GEN' position for the affected circuits.
 - Check for tripped circuit breakers within the transfer switch or your main electrical panel.
- **Partial Power:** This may indicate an overloaded circuit or a tripped breaker. Reduce the load on the generator or check for tripped breakers.
- **Unusual Noises or Smells:** Immediately shut down the generator and disconnect all power. Contact a qualified electrician for inspection.

For complex issues or if troubleshooting steps do not resolve the problem, contact a qualified electrician or Reliance Controls customer support.

7. SPECIFICATIONS

Feature	Detail
Model Number	31410B
Circuits	10 (Maximum 10 single-pole or 5 double-pole)
Amperage	30-Amp
Generator Compatibility	Up to 7,500 maximum running watts
Conduit Whip Length	18 inches
Product Dimensions	4.5 x 7 x 13.75 inches
Item Weight	12.12 pounds
Cabinet Material	Rugged, powder-coated steel

8. WARRANTY AND SUPPORT

Reliance Controls Corporation products are manufactured to high standards and typically come with a manufacturer's warranty. For specific warranty details, including duration and coverage, please refer to the documentation included with your product or visit the official Reliance Controls website.

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Reliance Controls customer support directly. Contact information can usually be found on the manufacturer's website or in the product packaging.

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.

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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