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### Power Watchdog 50A KIT

# Hughes Autoformers 50A Internal Install Mount Kit Instruction Manual

Model: 50A KIT

## PRODUCT OVERVIEW

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This manual provides essential information for the installation and use of the Hughes Autoformers 50A Internal Install Mount Kit. This kit is an optional hardwire accessory designed for use with the Power Watchdog RV220-50 or RV220-50-SP surge protectors, enhancing the electrical protection system for your RV.



Image: Components of the 50A Internal Install Mount Kit, showing the internal receptacle box and the heavy-duty electrical cable with a 50 Amp plug.

## What's in the Box

- Hughes Autoformers 50A KIT Internal Install Mount Kit 50

This kit includes the necessary components for hardwiring your Power Watchdog surge protector into your RV's electrical system.

## SETUP AND INSTALLATION

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The 50A Internal Install Mount Kit is designed for a permanent, internal installation of your Power Watchdog RV220-50 or RV220-50-SP unit. Installation should be performed by a qualified individual with knowledge of RV electrical systems.

## Safety Precautions

- Always disconnect all power sources to the RV before beginning any electrical work.
- Ensure the RV is not connected to shore power, generator, or inverter.
- Verify all circuits are de-energized using a voltage tester.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.

- Consult local electrical codes and RV manufacturer guidelines for proper installation.

## Installation Steps (General Guidelines)

1. **Select Location:** Choose a dry, secure location inside the RV, close to the main electrical panel or where the shore power cable enters, ensuring adequate ventilation and access for wiring.
2. **Mount the Receptacle Box:** Securely mount the provided receptacle box using appropriate fasteners. Ensure it is stable and can withstand vibrations during travel.
3. **Wire Connections:** Connect the wires from the RV's main electrical system to the receptacle box according to the wiring diagram provided with your Power Watchdog surge protector. Typically, this involves connecting the two hot lines (L1, L2), neutral, and ground.
4. **Connect Surge Protector:** Plug your Power Watchdog RV220-50 or RV220-50-SP unit into the newly installed 50A receptacle.
5. **Secure Wiring:** Ensure all wiring is properly routed, secured, and protected from abrasion or damage.
6. **Test System:** Once installation is complete and all connections are secure, carefully re-energize the RV's power system and test the functionality of the surge protector.

*Note: Refer to the specific wiring diagram and instructions included with your Power Watchdog RV220-50 or RV220-50-SP for detailed electrical connections. This kit provides the physical connection points for an internal installation.*

## OPERATING INSTRUCTIONS

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Once the 50A Internal Install Mount Kit is properly installed and your Power Watchdog surge protector is connected, the system operates automatically to monitor and protect your RV's electrical system.

### Normal Operation

- The Power Watchdog unit, when plugged into the internal receptacle, will continuously monitor incoming shore power for voltage fluctuations, open grounds, open neutrals, and other wiring issues.
- LED indicators on the Power Watchdog unit will display the status of the power connection. Refer to your Power Watchdog manual for specific LED interpretations.
- In the event of a dangerous power condition, the Power Watchdog will automatically disconnect power to the RV to prevent damage to appliances and electronics.

### Power Disconnection

To disconnect power from the RV, always unplug the shore power cord from the pedestal first. If you need to disconnect the Power Watchdog unit from the internal receptacle, ensure all power to the RV is off before doing so.

## MAINTENANCE

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The 50A Internal Install Mount Kit itself requires minimal maintenance. Regular inspection of the components is recommended to ensure continued safe operation.

### Inspection Schedule

- **Monthly:** Visually inspect the receptacle box and cable for any signs of physical damage, such as cracks, frayed wires, or discoloration.
- **Annually:** Check all electrical connections within the receptacle box to ensure they are tight and free from corrosion. *Only perform this check with all power disconnected.*
- Keep the area around the installed kit clean and free from debris.

For maintenance of the Power Watchdog surge protector itself, refer to its dedicated instruction manual.

## TROUBLESHOOTING

This section addresses common issues related to the 50A Internal Install Mount Kit. For issues related to the Power Watchdog surge protector's functionality, refer to its specific troubleshooting guide.

Problem	Possible Cause	Solution
No power to Power Watchdog unit after installation.	Incorrect wiring connections in the receptacle box.	Verify all wiring connections against the Power Watchdog's wiring diagram. Ensure L1, L2, Neutral, and Ground are correctly terminated.
Loose connection at the receptacle.	Ensure the Power Watchdog plug is fully seated into the internal receptacle. Check for any debris preventing a secure connection.	
Physical damage to the kit components.	Inspect the receptacle box and cable for visible damage. If damaged, replace the affected components.	
Power Watchdog unit not functioning correctly.	Issue with the Power Watchdog unit itself, not the installation kit.	Refer to the Power Watchdog RV220-50 or RV220-50-SP instruction manual for troubleshooting steps.

If problems persist after following these steps, contact Power Watchdog customer support or a certified RV electrician.

## SPECIFICATIONS

Feature	Detail
Model	50A KIT
Compatibility	Power Watchdog RV220-50 or RV220-50-SP Surge Protectors
Amperage Rating	50 Amps
Voltage Rating	120/240 Volts AC (for 50 Amp RV systems)
Item Weight	5 pounds
Product Dimensions	Approximately 12 x 10 x 4 inches (packaging dimensions)
Special Features	Designed for Internal Install Mount
Fit Type	Universal Fit (for 50 Amp RV electrical systems)

## WARRANTY AND SUPPORT

### Warranty Information

Specific warranty details for the 50A Internal Install Mount Kit are typically covered under the warranty of the associated Power Watchdog surge protector or may be available directly from Power Watchdog. Please retain your proof of purchase.

For detailed warranty terms and conditions, please visit the official Power Watchdog website or contact their customer service.

## Customer Support

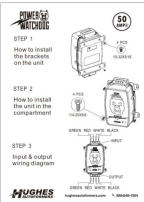




For technical assistance, installation questions, or warranty claims, please contact Power Watchdog customer support. Contact information can typically be found on their official website or on the packaging of your Power Watchdog surge protector.

*Note: Always refer to the most current contact information provided by the manufacturer.*

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This manual is for informational purposes only. Specifications are subject to change without notice.

## Related Documents - 50A KIT

	<p><a href="#">Power Watchdog Installation Guide and Wiring Diagram   Hughes Autoformers</a></p> <p>Concise guide to installing the Power Watchdog 50 AMP surge protector from Hughes Autoformers, including step-by-step instructions and a wiring diagram.</p>
	<p><a href="#">PWD 30A Power Watchdog Unit Surge Module Replacement Guide</a></p> <p>Step-by-step instructions for replacing the surge module in a PWD 30A Power Watchdog Unit, including disassembly and reassembly.</p>
	<p><a href="#">Hughes Autoformers Power Watchdog PWD30EPOHW/PWD50EPOHW Installation and Operating Manual</a></p> <p>Comprehensive guide for Hughes Autoformers Power Watchdog PWD30EPOHW and PWD50EPOHW RV surge protectors, covering installation, operation, technical specifications, and troubleshooting for RV power protection.</p>
	<p><a href="#">Hughes RV 220-50-SP Autoformer Instructions</a></p> <p>Detailed instructions for the Hughes RV 220-50-SP 50 Amp Autoformer, designed to protect RVs from voltage fluctuations and spikes.</p>
	<p><a href="#">Hughes Autoformers Power Watchdog Gen II WiFi Surge Protector Operating Instructions</a></p> <p>Comprehensive guide to installing and operating the Hughes Autoformers Power Watchdog Gen II WiFi Smart Surge Protector. Learn about its features, technical specifications, and troubleshooting.</p>

