

Progressive Dynamics PD52V

Progressive Dynamics PD52V 5200 Series Automatic Transfer Switch

Model: PD52V | 240 VAC, 50 Amp

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Progressive Dynamics PD52V 5200 Series Automatic Transfer Switch. This device is designed to automatically switch between two AC power sources, typically shore power and a generator, ensuring a continuous and stable power supply to your RV or other application.

The PD52V features rugged, heavy-duty, screw-type wiring terminals for secure connections and includes a time delay circuit board to stabilize generator voltage before transfer. It is designed to prevent two power sources from entering the AC Distribution Panel simultaneously.

2. SAFETY INFORMATION

WARNING: Installation and servicing of this automatic transfer switch must be performed by a qualified electrician or certified RV technician. Improper installation or maintenance can result in serious injury, death, or damage to equipment.

- Always disconnect all power sources (shore power and generator) before installing, servicing, or inspecting the unit.
- Ensure proper grounding according to all applicable electrical codes.
- Verify all wiring connections are secure and correctly terminated to prevent loose connections, which can cause overheating or arcing.
- Do not operate the unit if it shows signs of damage or malfunction.
- Keep the protective cover securely in place during operation.

3. PRODUCT OVERVIEW

The Progressive Dynamics PD52V is a robust automatic transfer switch designed for reliable power management.

Its metal enclosure provides enhanced durability and protection.

Key Features:

- Rugged, heavy-duty, screw-type wiring terminals for secure connections.
- Time delay circuit board to ensure stable generator voltage before transfer.
- Automatic sensing of generator power.
- Prevents simultaneous connection of two power sources to the AC Distribution Panel.
- Easy-to-remove protective cover with wiring schematic inside.
- AC-detect option for auto generator start compatibility.

Product Image:



Image 1: Progressive Dynamics PD52V 5200 Series Automatic Transfer Switch. This image displays the front view of the transfer switch, highlighting its robust metal casing and terminal block area.

4. INSTALLATION

Careful installation is crucial for the safe and proper functioning of the PD52V transfer switch. Refer to the wiring schematic located inside the protective cover for detailed connection diagrams.

Installation Steps:

1. **Power Disconnection:** Ensure all power sources (shore power, generator, and any inverter systems) are completely disconnected and locked out before beginning installation.

2. **Mounting:** Mount the transfer switch in a dry, accessible location, ensuring adequate ventilation and clearance for wiring. The unit's dimensions are approximately 10.38" L x 6.88" W x 4.5" H.
3. **Wiring Connections:** Connect the shore power input, generator input, and load output (to your RV's AC distribution panel) to the clearly labeled screw-type terminals. Ensure all connections are tight and secure. Note that wire clamps are not included and must be sourced separately; ensure they are appropriate for your 50 Amp supply cables.
4. **Grounding:** Properly ground the unit according to local and national electrical codes.
5. **Protective Cover:** Once all wiring is complete and verified, replace the protective cover securely.
6. **Optional Jumper:** For specific applications, a jumper can be installed on the circuit board to remove the default 30-second switch-over delay. Consult the wiring schematic for details on this modification.

5. OPERATION

The PD52V Automatic Transfer Switch operates by sensing available AC power sources and automatically switching the electrical load to the preferred source.

Power Prioritization:

- The PD52V is designed to prioritize the generator power source. When the generator is running and providing stable voltage, the switch will connect the load to the generator.
- If the generator is shut off or fails, and shore power is available, the switch will transfer the load to shore power after a brief delay.
- A time delay circuit board ensures that the generator voltage is stable before the transfer occurs, protecting your appliances from power fluctuations.

Automatic Transfer:

When a new power source becomes available (e.g., starting the generator while on shore power, or connecting shore power while the generator is off), the transfer switch will automatically detect the change and initiate the transfer process. The built-in delay ensures a smooth transition and protects connected equipment.

6. MAINTENANCE

The Progressive Dynamics PD52V Automatic Transfer Switch is designed for minimal maintenance. However, periodic inspection is recommended to ensure continued safe and reliable operation.

Recommended Maintenance:

- **Annual Inspection:** At least once a year, with all power disconnected, remove the protective cover and visually inspect all wiring connections for tightness and signs of corrosion or overheating.
- **Cleaning:** If dust or debris has accumulated, carefully clean the interior of the unit using a dry, non-conductive brush or compressed air. Ensure no foreign objects are present.
- **Cover Security:** Always ensure the protective cover is securely fastened after any inspection or cleaning.

7. TROUBLESHOOTING

If you experience issues with your PD52V Automatic Transfer Switch, consult the following troubleshooting guide. Always disconnect all power sources before performing any inspections or repairs.

Symptom	Possible Cause	Solution
No power to RV from either source.	No power from shore or generator; tripped breaker; faulty wiring.	Check shore power pedestal and generator output. Inspect main breakers in RV and at power sources. Verify wiring connections.
Transfer switch does not switch to generator power.	Generator not producing stable voltage; generator not running; wiring issue.	Ensure generator is running and producing correct voltage. Check generator input wiring to the transfer switch. Allow for the time delay.
Transfer switch does not switch to shore power.	Shore power not available; tripped breaker; wiring issue.	Verify shore power is active at the pedestal. Check shore power input wiring to the transfer switch.
Humming or buzzing sound from the unit.	Normal operation (some hum is expected); loose connections.	A faint hum can be normal. If excessive, disconnect power and check all terminal connections for tightness.

If problems persist after troubleshooting, contact a qualified technician or Progressive Dynamics customer support.

8. SPECIFICATIONS

- **Model:** PD52V
- **Brand:** Progressive Dynamics
- **Voltage:** 240 VAC
- **Current Rating:** 50 Amps
- **Neutral Rating:** 70 Amps
- **Dimensions (L x W x H):** 10.38" x 6.88" x 4.5"
- **Weight:** 7 lbs
- **Enclosure:** Metal

9. WARRANTY AND SUPPORT

Warranty:

The Progressive Dynamics PD52V Automatic Transfer Switch comes with a **One-Year Limited Warranty**. Please refer to the warranty documentation included with your product for full terms and conditions.

Customer Support:

For technical assistance, warranty claims, or further information, please contact Progressive Dynamics customer support. Contact details can typically 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.

Name

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Email

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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