Okin SP2-B

OEM Okin Power Supply Transformer with Power Cord

Model: SP2-B

Product Overview

The Okin SP2-B AC/DC Switching Power Supply is designed to provide reliable power for 24V DC motors commonly found in lift chairs. This unit is compatible with various lift chair brands and motor types, including BetaDrive and DeltaDrive Okin Lift Chair Motors. It also features a battery backup compartment for 9-volt batteries (not included), ensuring continued operation during power outages.

Figure 1: The Okin SP2-B power supply unit, accompanied by its detachable AC power cord and DC output cord.

Key Features

- Compatible with OKIN, Limoss, Hmleaf, and Tranquil Ease Lift Chair and Power Recline DeltaDrive and BetaDrive Motors.
- Features a two-pin (one flat, one round) connection to the motor.
- Input: 120V 60Hz 2.0A.
- Output: DC 29V 2.0A.
- Includes the necessary AC power cable.
- Equipped with a battery backup feature (9V batteries not included).

Specifications

Model Number	SP2-B (Version No: 3.00.209.014.00)

Input Voltage	AC 100-240V, 50/60Hz, 2.0A
Output Voltage	DC 29V, 2.0A
Compatibility	Okin, Limoss, Hmleaf, Tranquil Ease Lift Chair and Power Recline DeltaDrive and BetaDrive Motors
Motor Connection	2-pin (one flat, one round)
Battery Backup	Requires 9V batteries (not included)
Common Part Numbers	W52RA73-290018, KDDY001, KDDY008, ZB A290020-B

Figure 2: Rear view of the power supply unit, displaying the model number, input/output specifications, and safety certifications.

Setup

1. **Unpack Components:** Carefully remove the power supply unit, AC power cord, and DC output cord from the packaging.
2. **Connect AC Power Cord:** Insert the included AC power cord into the designated AC input port on the power supply unit. Ensure a firm connection.

Figure 3: Close-up view of the AC input port on the power supply, where the detachable AC power cord connects.

3. **Connect DC Output Cord:** Plug the DC output cord into the corresponding DC output port on the power supply unit. This cord will connect to your lift chair motor.

Figure 4: Close-up view of the DC output port on the power supply, which connects to the lift chair motor.

4. **Install Battery Backup (Optional):** For battery backup functionality, open the battery compartment on the side of the power supply unit. Insert two 9-volt batteries, observing the correct polarity (+/-). Close the compartment securely.

Figure 5: The power supply unit with its battery backup compartment open, ready for 9-volt battery installation.

5. **Connect to Lift Chair:** Connect the 2-pin DC output cord from the power supply to the corresponding input on your lift chair's motor.
6. **Plug into Wall Outlet:** Finally, plug the AC power cord into a standard 120V wall outlet.

Operating Instructions

Once the power supply is correctly connected to the lift chair and plugged into a wall outlet, the lift chair should be ready for operation. Use the chair's standard remote control or integrated buttons to control its movement. The power supply will convert the AC household current to the necessary DC voltage for the motor.
If 9-volt batteries are installed in the battery backup compartment, the lift chair will retain limited functionality during a power outage, typically allowing for one or two full cycles (raise/lower) depending on battery charge and motor load. This feature is intended for emergency use to return the chair to a seated position.

Maintenance

- **Cleaning:** Periodically wipe the power supply unit with a dry, soft cloth to remove dust. Do not use liquid cleaners or immerse the unit in water.
- **Cable Inspection:** Regularly inspect the AC and DC cords for any signs of wear, fraying, or damage. Replace damaged cords immediately to prevent electrical hazards.
- **Battery Replacement:** If using the battery backup feature, replace the 9-volt batteries annually or when their charge is depleted to ensure emergency functionality.
- **Ventilation:** Ensure the power supply unit is placed in a location with adequate ventilation to prevent overheating. Do not cover the unit.
- **Storage:** If storing the power supply for an extended period, disconnect it from the wall outlet and the lift chair. Remove any 9-volt batteries from the backup compartment. Store in a cool, dry place.

Troubleshooting

If your lift chair is not operating correctly, review the following common issues and solutions:

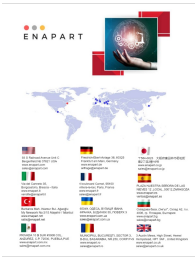
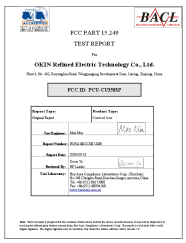
- **No Power to Chair:**
  - Check if the power supply is securely plugged into a working wall outlet.
  - Ensure all cables (AC cord to power supply, DC cord to motor) are firmly connected.
  - Verify the wall outlet is active by plugging in another device.
- **Chair Operates Intermittently:**
  - Inspect cables for damage or loose connections.
  - Ensure the power supply is not overheating. Allow it to cool if it feels excessively warm.
- **Battery Backup Not Working:**
  - Check if 9-volt batteries are installed and correctly oriented.
  - Replace old or depleted 9-volt batteries with new ones.
- **Motor Not Responding:**
  - Confirm the motor connection to the power supply is secure.

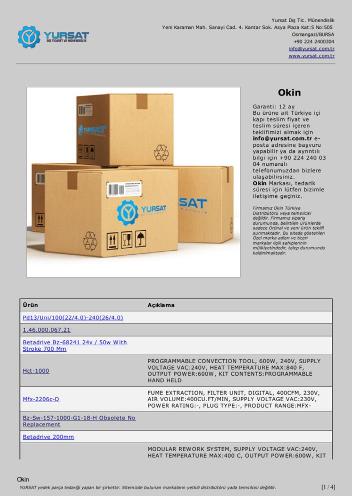
- If the issue persists after checking all connections and power sources, the power supply unit or the lift chair motor may require professional inspection or replacement.

Warranty and Support

This Okin power supply is manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided at the time of purchase or contact the retailer. In many cases, replacement parts like this power supply are covered by a limited manufacturer's warranty against defects in materials and workmanship.
For technical support or inquiries regarding replacement parts, please contact the manufacturer, Okin, or the authorized seller from whom you purchased the product. You may also visit the Okin Store on Amazon for additional product information and resources.

Related Documents

	Okin Systems Troubleshooting Guide: Lift Chair Repair and Maintenance Comprehensive troubleshooting guide for Okin Systems used in lift chairs. Learn to diagnose and fix common issues with hand controls, transformers, motors, and spindle nuts. Includes installation tips.
	Attestation Letter for OKIN RF29 Remote Control - FCC Filing Attestation letter from OKIN Refined Electric Technology Co., Ltd. regarding the RF29 Remote Control (FCC ID: PCU-RF29), confirming software-disabled Bluetooth functionality.
	Catálogo de Componentes Industriais Okin pela Enapart Explore o catálogo abrangente da Enapart de componentes industriais Okin, incluindo motores, fontes de alimentação, controles remotos e atuadores. Encontre números de peça e especificações para suas necessidades.
	FCC Part 15.249 Test Report for OKIN Control Box (FCC ID: PCU-CU3583P) This FCC Part 15.249 test report details the compliance testing for the OKIN Refined Electric Technology Co., Ltd. control box, model JLDP.15.010.001, with FCC ID PCU-CU3583P. The tests were conducted by Bay Area Compliance Laboratories Corp. (Kunshan) according to ANSI C63.10-2013 standards.



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