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› [NCE 13.5V 2Amp Power Supply \(Model 221 P114\) Instruction Manual](#)

NCE 221 P114

NCE 13.5V 2Amp Power Supply (Model 221 P114) Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your NCE 13.5V 2Amp Power Supply, Model 221 P114. This unit serves as a supplementary or substitute DC power supply, primarily designed for the NCE Power Cab system and other model railroad applications. When used in conjunction with a UTP-CAT5, it can enhance power delivery to the cab bus, supporting more expansive layouts. Please read this manual thoroughly before installation and operation.



Figure 1: NCE 13.5V 2Amp Power Supply (Model 221 P114). This image displays the black rectangular power adapter with two flat prongs for a wall outlet on one side and a black cable terminating in a barrel connector on the other. The product label with specifications is visible on the adapter body.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent electric shock, injury, or damage to the product:

- **CAUTION: RISK OF ELECTRIC SHOCK.** Do not open the power supply casing. It contains non-serviceable parts inside.
- This device is intended for **DRY LOCATION USE ONLY**. Do not expose to water, moisture, or high humidity.
- Ensure the power supply is used only with Information Technology Equipment (ITE) as specified.
- Always connect the power supply to a properly grounded electrical outlet.
- Do not use the power supply if the cord or plug is damaged.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x NCE 13.5V 2Amp Power Supply Unit (Model 221 P114)
- 1 x Integrated Power Cable with DC Barrel Connector

4. SETUP

Follow these steps to set up your NCE Power Supply:

1. **Identify Components:** Locate the power supply unit, which has a standard AC plug on one end and a DC barrel connector on the other.
2. **Connect to Device:** Insert the DC barrel connector securely into the designated power input port of your NCE Power Cab system or other compatible model railroad equipment. Ensure a snug fit.
3. **Connect to Power Outlet:** Plug the AC prongs of the power supply into a standard 100-240V AC wall outlet.
4. **Verify Power:** Once connected, the power supply will begin providing power to the connected device. Refer to your device's manual for indicators of successful power delivery.

5. OPERATING INSTRUCTIONS

The NCE 13.5V 2Amp Power Supply operates automatically once connected. It is designed to provide a stable DC voltage to your model railroad system.

- **Continuous Power:** The unit delivers continuous power as long as it is plugged into an active AC outlet and connected to your device.
- **Power Boosting:** For larger model railroad layouts, this power supply can be used with a UTP-CAT5 to boost the power available on the cab bus, ensuring reliable operation across extensive track networks.
- **Disconnection:** To power off the connected device, simply unplug the power supply from the AC wall outlet.

6. MAINTENANCE

The NCE Power Supply is designed for minimal maintenance. It contains no user-serviceable parts inside.

- **Cleaning:** To clean the exterior of the power supply, use a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Storage:** When not in use, store the power supply in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the power cord and connector for any signs of damage. If damage is observed, discontinue use immediately.

7. TROUBLESHOOTING

If you encounter issues with your NCE Power Supply, consider the following:

- **No Power Output:**
 - Ensure the power supply is securely plugged into a functional AC wall outlet.
 - Verify that the DC barrel connector is fully inserted into your device's power input.
 - Test the AC outlet with another device to confirm it is receiving power.
- **Device Not Functioning Correctly:**

- Confirm that your device is compatible with the 13.5V DC output of this power supply.
- Check the power requirements of your device to ensure the 1.35A output current is sufficient.
- **Overheating:** If the power supply feels excessively hot, unplug it immediately and allow it to cool. Ensure it is used in a well-ventilated area and not covered.

If problems persist after attempting these troubleshooting steps, please contact NCE customer support for further assistance.

8. SPECIFICATIONS

Technical specifications for the NCE 13.5V 2Amp Power Supply (Model 221 P114):

Model Number	221 P114 (5240221)
Input Voltage	100-240V AC, 50/60Hz, Max 0.48A
Output Voltage	13.8V DC
Output Current	1.35A (Note: Product title indicates 2Amp, but unit label specifies 1.35A)
Output Wattage	24 Watts
Dimensions (L x W x H)	1.5 x 3.5 x 3.7 inches
Item Weight	4.8 ounces (0.3 Pounds)
Connector Type	DC Barrel Connector
Cooling Method	Air
Manufacturer	NCE

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact NCE directly through their official website or customer service channels. Keep your purchase receipt as proof of purchase.