

uxcell DC-022

uxcell DC-022 5.5mmx2.1mm DC Power Jack Socket Instruction Manual

INTRODUCTION

This manual provides detailed instructions for the installation and use of the uxcell DC-022 5.5mmx2.1mm DC Power Jack Socket. This component is designed for panel mounting and features a 3-pin soldering terminal for secure connections. It is suitable for a wide range of electronic devices requiring a 5.5mm x 2.1mm DC power input.

Each package contains 15 DC Power Jacks and 15 hex nuts, ensuring you have multiple units for various projects or replacements.

SETUP AND INSTALLATION

The DC-022 power jack is designed for panel mounting, providing a stable and secure power input point for your electronic projects or devices. Follow these steps for proper installation:

1. **Prepare the Mounting Hole:** Ensure your device panel has a circular hole with a diameter of approximately 6.3mm (0.25 inches) to accommodate the socket body. The overall dimension of the socket is 18.2mm (length) x 14mm (diameter).
2. **Insert the Socket:** Carefully insert the DC-022 socket through the prepared hole from the front side of the panel.
3. **Secure with Hex Nut:** On the rear side of the panel, thread the provided hex nut onto the socket's threaded body. Tighten the nut firmly to secure the socket in place. Avoid over-tightening to prevent damage to the plastic body.



Figure 1: DC-022 Power Jack with indicated dimensions (14mm diameter, 18.2mm length).

4. **Solder Connections:** The DC-022 features 3 pins for soldering. These pins typically correspond to the positive, negative (ground), and switch/detection terminals. Refer to your device's circuit diagram for correct pin assignments.



Figure 2: Rear view of the DC-022 socket, showing the 3 soldering pins and the hex nut for panel mounting.

- **Pin 1 (Center Pin):** Typically connected to the positive (+) terminal of the DC power supply.
- **Pin 2 (Outer Barrel):** Typically connected to the negative (-) or ground terminal.
- **Pin 3 (Switch/Detection):** This pin is often used for detecting when a plug is inserted, or for switching between internal and external power sources. Its function depends on the specific circuit design.

Use appropriate soldering techniques to ensure strong, reliable electrical connections. Ensure no solder bridges form between pins.

OPERATING INSTRUCTIONS

Once the DC-022 power jack is correctly installed and wired, its operation is straightforward:

1. **Connect DC Power Plug:** Insert a compatible 5.5mm x 2.1mm DC power plug into the front opening of the installed socket. Ensure the plug is fully inserted for a secure connection.



Figure 3: Front view of the DC-022 socket, ready to receive a 5.5mm x 2.1mm DC power plug.

2. **Verify Power:** Confirm that power is being supplied to your device. If your device has an indicator light, check its status.
3. **Disconnecting:** To disconnect power, gently pull the DC power plug straight out from the socket. Avoid twisting or pulling at an angle to prevent damage to both the plug and the socket.

MAINTENANCE

The uxcell DC-022 power jack requires minimal maintenance:

- **Cleaning:** Keep the socket opening free from dust and debris. A soft, dry brush or compressed air can be used for cleaning if necessary.
- **Inspection:** Periodically inspect the soldered connections for any signs of corrosion or loosening. Re-solder if necessary.
- **Environmental Conditions:** Avoid exposing the connector to excessive moisture or extreme temperatures, which can affect its performance and lifespan.

TROUBLESHOOTING

If you encounter issues with the DC-022 power jack, consider the following:

- **No Power:**
 - Ensure the DC power plug is fully inserted into the socket.
 - Check the soldered connections for continuity and proper polarity.
 - Verify that the external power supply is functioning correctly and providing the expected voltage and current.
 - Confirm that the DC plug itself is compatible (5.5mm outer diameter, 2.1mm inner diameter) and not damaged.
- **Loose Connection:**

- Ensure the hex nut securing the socket to the panel is tight.
- Inspect the internal contacts of the socket for any deformation or damage.
- **Physical Damage:** If the socket body or pins are visibly damaged, replace the unit.

SPECIFICATIONS

Model	DC-022
Type	5.5mm x 2.1mm DC Socket
Pin Number	3 Pin
Socket Diameter	6.3mm (approx. 0.25 inches)
Dimension (L*D)	18.2mm x 14mm (approx. 0.72 x 0.55 inches)
Material	Copper, Metal, Plastic
Rated Load	0.5A DC30V
Package Content	15pcs x DC Power Jack, 15pcs x Hex Nut
Product Dimensions	1.97 x 2.36 x 0.79 inches
Item Weight	1.44 ounces
Manufacturer	uxcell

WARRANTY AND SUPPORT

Specific warranty details for the uxcell DC-022 DC Power Jack Socket are not provided in the product information. For any warranty claims or technical support, please contact the manufacturer, uxcell, directly through their official channels or the retailer from whom the product was purchased.

Always retain your proof of purchase for any potential support inquiries.

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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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