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## Neutrik NYS-SPP-L1

# Neutrik NYS-SPP-L1 48-Point Patchbay and Hosa DTP-802 Snake

## INSTRUCTION MANUAL

### 1. Introduction

This manual provides essential information for the proper setup, operation, and maintenance of your Neutrik NYS-SPP-L1 48-Point 1/4" TRS Balanced Patchbay and Hosa DTP-802 8-Channel DB25 to 1/4 inch TRS Snake. These components are designed to streamline audio signal routing in professional and home studio environments. Please read this manual thoroughly before installation and use.

### 2. Safety Information

- **Electrical Safety:** Ensure all connected equipment is properly grounded. Do not expose the units to moisture or extreme temperatures.
- **Ventilation:** When rack-mounting, ensure adequate airflow around the patchbay to prevent overheating.
- **Handling:** Handle all cables and connectors with care to prevent damage. Avoid excessive force when inserting or removing plugs.
- **Environment:** Use the equipment in a clean, dry environment, away from dust and corrosive substances.

### 3. Package Contents

Verify that your package contains the following items:

- 1x Neutrik NYS-SPP-L1 48-Point 1/4" TRS Balanced Patchbay
- 1x Hosa DTP-802 8-Channel DB25 to 1/4 inch TRS Snake (6.6 Foot)

### 4. Product Overview

## 4.1 Neutrik NYS-SPP-L1 48-Point 1/4" TRS Balanced Patchbay

The Neutrik NYS-SPP-L1 is a high-quality 48-point patchbay designed for professional audio applications. It features 24 pairs of front and rear 1/4" TRS jacks, allowing for flexible signal routing. The patchbay is fully PC board-wired, enabling easy configuration of operating modes without removing the unit from the rack. Its robust construction with Neutrik connectors ensures long-term reliability.

## 4.2 Hosa DTP-802 8-Channel DB25 to 1/4 inch TRS Snake

The Hosa DTP-802 is an 8-channel audio snake designed to connect equipment with DB25 connectors to devices with 1/4" TRS inputs/outputs. It features a DB25 connector on one end and eight color-coded 1/4" TRS plugs on the other, simplifying connections between multi-channel interfaces, mixers, and the patchbay.



*Image 1: The Hosa DTP-802 8-channel DB25 to 1/4 inch TRS snake. This image shows the DB25 connector on the left, leading to eight individual color-coded cables, each terminating in a 1/4 inch TRS plug on the right. The cables are numbered for easy identification.*

## 5. Setup

### 5.1 Patchbay Installation (Neutrik NYS-SPP-L1)

- 1. Rack Mounting:** The NYS-SPP-L1 is designed for standard 19-inch equipment racks. Secure the patchbay using appropriate rack screws (not included) into an available rack space. Ensure it is firmly mounted to prevent movement.
- 2. Power:** The patchbay is a passive device and does not require external power.

### 5.2 Patchbay Configuration (Neutrik NYS-SPP-L1)

The NYS-SPP-L1 allows for flexible signal routing modes by flipping internal PC boards. To access these boards:

1. Ensure the patchbay is securely mounted.
2. Carefully unscrew the front panel fasteners. The front panel can be opened without fully removing the unit from the rack.
3. Locate the vertical PC boards. Each board corresponds to a pair of front and rear jacks.
4. Flip the desired PC boards to select the required operating mode (see Section 6).
5. Once configured, close the front panel and secure the fasteners.

### 5.3 Snake Connections (Hosa DTP-802)

- 1. DB25 Connection:** Connect the DB25 end of the Hosa DTP-802 snake to the corresponding DB25 port on your audio interface, mixer, or other compatible equipment. Ensure the screws on the DB25 connector are tightened to secure the connection.
- 2. 1/4" TRS Connections:** Connect the eight 1/4" TRS plugs to the rear inputs/outputs of your Neutrik patchbay or directly to other studio equipment. Utilize the color-coding and numbering on the cables for organized routing.

## 6. Operating Modes (Neutrik NYS-SPP-L1 Patchbay)

The Neutrik NYS-SPP-L1 patchbay supports three primary operating modes for each channel pair, configured by flipping the internal PC boards:

- **Normalled:** In this mode, the top rear jack is connected to the bottom rear jack internally. Inserting a plug into the front top jack breaks this connection, allowing you to insert a signal. Inserting a plug into the front bottom jack does not break the connection but allows you to tap the signal. This is ideal for routing a signal from one device to another by default, but allowing for easy interruption or splitting.
- **Half-Normalled:** Similar to normalled, the top rear jack is connected to the bottom rear jack. Inserting a plug into the front top jack breaks the connection. However, inserting a plug into the front bottom jack *does not* break the connection, allowing you to tap the signal without interrupting the normal flow. This is commonly used for sending a signal to a compressor or EQ and then returning it, while also allowing a copy of the signal to be sent elsewhere.
- **Isolated (Non-Normalled):** In this mode, there is no internal connection between the top and bottom rear jacks. Each jack operates independently. This mode is used when you want to make all connections manually with patch cables, or when connecting devices that should not be internally linked.

## 7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the patchbay and snake. Avoid abrasive cleaners or solvents. For connectors, use a specialized contact cleaner if necessary, ensuring it is safe for audio equipment.
- **Inspection:** Periodically inspect all cables and connectors for signs of wear, damage, or corrosion. Replace damaged cables immediately to prevent signal loss or electrical hazards.
- **Storage:** When not in use, store the snake neatly coiled to prevent kinks or damage.

## 8. Troubleshooting

Problem	Possible Cause	Solution
No signal or intermittent signal	<ul style="list-style-type: none"><li>• Loose or faulty cable connection</li><li>• Incorrect patchbay mode</li><li>• Damaged cable or connector</li></ul>	<ul style="list-style-type: none"><li>• Check all 1/4" TRS and DB25 connections.</li><li>• Verify the patchbay mode (Normalled, Half-Normalled, Isolated) is appropriate for your routing.</li><li>• Test cables individually or replace if damaged.</li></ul>
Hum or noise in audio signal	<ul style="list-style-type: none"><li>• Ground loop</li><li>• Unbalanced connection in a balanced path</li><li>• Faulty cable shielding</li></ul>	<ul style="list-style-type: none"><li>• Ensure all equipment is properly grounded.</li><li>• Use balanced TRS connections throughout the signal path where possible.</li><li>• Replace suspected faulty cables.</li></ul>

Problem	Possible Cause	Solution
Difficulty inserting/removing plugs	<ul style="list-style-type: none"> <li>• Misalignment</li> <li>• Debris in jack</li> <li>• Damaged jack</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure plug is aligned correctly before inserting.</li> <li>• Inspect jacks for debris and carefully remove if present.</li> <li>• If a jack is damaged, contact support.</li> </ul>

## 9. Specifications

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### 9.1 Neutrik NYS-SPP-L1 Patchbay

- **Type:** 48-Point 1/4" TRS Balanced Patchbay
- **Connectors:** 1/4" TRS (Tip-Ring-Sleeve)
- **Configuration:** PC Board-Wired, configurable for Normalled, Half-Normalled, or Isolated modes
- **Mounting:** 19-inch Rack Mountable
- **Special Features:** Legendary Neutrik Connectors, PC Board-Wired for easy mode changes

### 9.2 Hosa DTP-802 Snake

- **Channels:** 8-Channel
- **Connectors:** 1x DB25 (Male) to 8x 1/4" TRS (Male)
- **Length:** 6.6 feet (approximately 2 meters)
- **Cable Type:** Audio

## 10. Warranty and Support

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This product is covered by the manufacturer's standard warranty. For specific warranty terms and conditions, please refer to the documentation provided by Neutrik and Hosa, or visit their official websites. For technical support, troubleshooting assistance, or warranty claims, please contact the respective manufacturer's customer service department.

Keep your purchase receipt as proof of purchase for warranty purposes.