

Neutrik NJ3FC6

Neutrik NJ3FC6 1/4" TRS Female Locking Jack Instruction Manual

1. PRODUCT OVERVIEW

The Neutrik NJ3FC6 is a high-quality 1/4 inch TRS (Tip-Ring-Sleeve) female locking jack designed for secure and reliable audio connections. This connector is part of Neutrik's renowned range of audio connectivity solutions, known for their professional-grade quality and robust construction. It features a compact, space-saving design and a rugged diecast shell for enhanced durability and reliability in various audio applications. All Neutrik connectors are manufactured with lead-free, RoHS compliant solder, ensuring safe and environmentally responsible use.



Image: Two Neutrik NJ3FC6 1/4 inch TRS female locking jacks, showcasing their robust design and red locking tab.

2. KEY FEATURES

- **1/4 Inch TRS Female Jack:** Provides stereo/mono output for connecting various audio devices.
- **Locking Mechanism:** Ensures secure connection, preventing accidental disconnections during use.
- **Nickel Plated:** Offers corrosion resistance and a professional appearance.
- **Rugged Diecast Shell:** Built for lasting reliability and durability in demanding environments.

- **Compact Design:** Space-saving form factor suitable for various installations.
- **RoHS Compliant:** Manufactured with lead-free solder for environmental safety.
- **3-Pin Connector System:** Standard configuration for TRS connections.
- **Metal Outer Material:** Provides robust protection for internal components.

3. SETUP AND ASSEMBLY

The Neutrik NJ3FC6 connector is designed for assembly with audio cables or for panel mounting. Proper soldering techniques are essential for optimal performance and reliability.

3.1 Disassembly

1. Unscrew the small screw located on the side of the metal housing.
2. Carefully slide the internal jack assembly and the strain relief boot out of the metal housing.



Image: Exploded view of the Neutrik NJ3FC6 connector, showing the internal jack, screw, metal housing, and strain relief boot.

3.2 Wiring and Soldering

Prepare your audio cable by stripping the outer jacket and insulation to expose the conductors. Solder the conductors to the appropriate pins on the internal jack assembly. For TRS connections, typically:

- Tip (T) to Pin 1 (often signal hot for unbalanced, or positive for balanced).
- Ring (R) to Pin 2 (often signal cold for balanced, or return for stereo).

- Sleeve (S) to Pin 3 (ground/shield).

Refer to your specific audio equipment's wiring diagrams for precise pin assignments if unsure.

3.3 Reassembly

1. Slide the strain relief boot onto the cable, then carefully insert the wired internal jack assembly back into the metal housing.
2. Align the screw hole on the internal assembly with the hole on the metal housing.
3. Secure the assembly by tightening the small screw. Ensure all components are firmly seated.

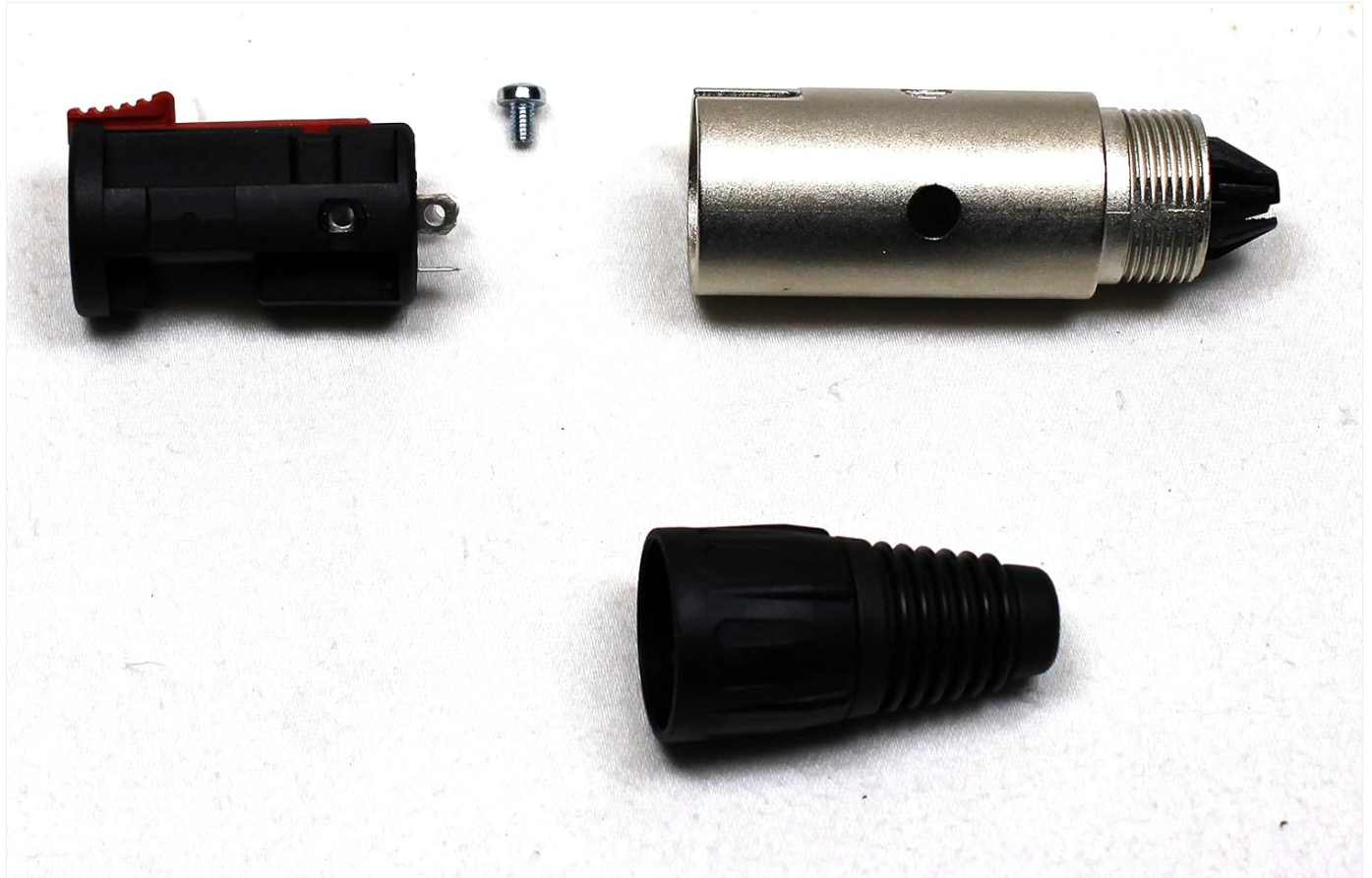


Image: Disassembled Neutrik NJ3FC6 connector, showing the internal jack, screw, metal housing, and strain relief boot, arranged for reassembly.

4. OPERATING INSTRUCTIONS

4.1 Connecting a 1/4" TRS Plug

1. Ensure the 1/4" TRS plug is clean and free of debris.
2. Insert the 1/4" TRS plug into the Neutrik NJ3FC6 female jack.
3. Push firmly until you hear or feel a click, indicating the locking mechanism has engaged. The red locking tab will secure the plug in place.

4.2 Disconnecting a 1/4" TRS Plug

1. Press and hold the red locking tab on the connector.
2. While holding the tab, gently pull the 1/4" TRS plug straight out from the jack. Avoid twisting or yanking the cable.

5. MAINTENANCE

- **Cleaning:** Periodically clean the contact points of the jack with a non-abrasive contact cleaner to ensure optimal signal transfer.
- **Inspection:** Regularly inspect the connector for any signs of wear, damage, or loose connections. Ensure the locking mechanism operates smoothly.
- **Storage:** Store connectors in a clean, dry environment when not in use to prevent dust and moisture accumulation.

6. TROUBLESHOOTING

- **No Signal or Intermittent Signal:**
 - Check cable connections and ensure the plug is fully inserted and locked.
 - Inspect soldered joints for cold solder or breaks.
 - Clean connector contacts.
- **Noise or Hum:**
 - Verify proper grounding and shield connections.
 - Ensure all connections are secure and free from corrosion.
- **Difficulty Locking/Unlocking:**
 - Ensure the plug is correctly aligned before insertion.
 - Check for any foreign objects or damage to the locking mechanism.

7. SPECIFICATIONS

Brand	Neutrik
Model Name	NJ3FC6
Connector Type	1/4" TRS Female Locking Jack
Connector Gender	Female
Number of Pins	3
Cable Type	Audio
Special Feature	Locking Mechanism
Recommended Uses	Audio Connections (Mixers, Microphones, Amplifiers, Speakers, Headphones, Musical Instruments, Audio Interfaces, DJ Equipment)
Color	Black
Shape	Round
Item Weight	0.07 Kilograms (2.39 ounces)
Specification Met	RoHS
Indoor/Outdoor Usage	Indoor
Outer Material	Metal

8. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video: An official product video demonstrating the features and applications of Neutrik audio connectors, including the NJ3FC6. This video highlights the robust construction and ease of use.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Neutrik website or contact your authorized Neutrik dealer. Specific warranty terms may vary by region and retailer.

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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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