



CIT Relays and Switches for Musical Audio Equipment

Relays and switches are commonly used in audio equipment for various functions related to signal routing, power control, and user interface. Here's how each is typically utilized:

1. Relays

Relays are electrically operated switches that can open or close circuits. In audio equipment, they serve several key purposes:

- **Signal Routing:** Relays can be used to switch between different audio signals, such as selecting between different input sources (e.g., CD player, turntable, digital inputs). This allows for a clean and noise-free signal path as relays can provide galvanic isolation between circuits.
- **Speaker Protection:** In amplifiers, relays are often used in speaker protection circuits. They can disconnect speakers during power-on and power-off to prevent thumps or potentially damaging transients. They also disconnect the speakers if a fault condition is detected, like DC offset or excessive current.
- **Muting:** Relays can be used to mute the output of audio equipment, either manually or automatically during certain conditions (e.g., power-up, power-down, or signal loss).

2. Switches

Switches in audio equipment can be manual or electronic and serve various user interface and functional roles:

- **Power Control:** The most basic use of a switch is to turn the device on and off. This can be a physical toggle or push-button switch.
- **Source Selection:** Switches allow users to select between different audio sources. This can be done via rotary switches, push buttons, or electronic switching controlled by a microprocessor.
- **Tone and Volume Control:** Some audio equipment features switches for adjusting tone settings (bass, treble, etc.) or volume levels.
- **Mode Selection:** Switches may be used to change operational modes, such as switching between stereo and mono output, or engaging a bypass mode that removes certain processing effects from the signal chain.

Both relays and switches are integral to the functionality and user experience of audio equipment, ensuring reliable operation and flexibility in audio signal management.



CIT Relays used in Musical Audio Equipment:

- [J104A Series](#)
- [J104B Series](#)
- [J104C Series](#)
- [J104D Series](#)
- [J103 Series](#)

CIT Switches used in Musical Audio Equipment:

- [BT Series](#)
- [ANT Series](#)
- [BNT Series](#)
- [RC Series](#)
- [RA Series](#)