

AI-03063 JBL EON610 Information

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On the JBL 610 speaker, what is the Thru function

On the **JBL EON610** speaker, the "**Thru**" function refers to the **XLR loop-thru output** found on the back panel of the speaker. This feature allows you to **pass the input signal directly through to another speaker** without any processing or volume adjustment from the first speaker.

Here's how it works:

- The **Thru output** is typically labeled as "**THRU 1**" and "**THRU 2**".
- When you connect an audio source (like a mixer or microphone) to **Input 1** or **Input 2**, the signal is sent to the internal amplifier and also made available at the corresponding **Thru output**.
- You can then connect another powered speaker to the Thru output to **daisy-chain** the audio signal across multiple speakers.

Key points:

- The Thru output is **not affected by the volume or EQ settings** of the EON610. It sends a **clean, unprocessed signal**.
- This is useful for **expanding your sound system** without needing a separate splitter or mixer output for each speaker.

Let me know if you'd like a diagram or help setting up a multi-speaker chain using the Thru ports!

So "Thru", I can send this signal to my receiver input, this is not powered??

Great question, Rigel.

You're absolutely right to ask whether the **Thru output** on the JBL EON610 is **powered or not**—this is crucial when connecting to a **receiver** or other audio equipment.

Here's the key detail:

- The **Thru output is a line-level, balanced XLR signal.**
- It is **not amplified**—so **no speaker-level power** is sent through it.
- This means it's **safe to connect to a receiver's line-level input, mixer, or another powered speaker.**

Important considerations:

- If your **receiver only accepts RCA or unbalanced inputs**, you'll need an **XLR-to-RCA adapter** or **DI box** to match signal levels and impedance.
- If your receiver has **XLR or TRS line-level inputs**, you can connect directly from the Thru port.

Would you like help identifying the right adapter or cable for your receiver model? Just let me know what inputs it has.

Can I DIY an XLR to RCA ? What are the pinouts

Yes, Rigel—you **can DIY an XLR to RCA cable**, but you'll need to understand the **pinout and signal conversion** to avoid issues like hum or signal mismatch.

XLR to RCA Pinout Guide

An **XLR connector** has 3 pins:

- **Pin 1:** Ground
- **Pin 2:** Hot (positive signal)
- **Pin 3:** Cold (negative signal)

An **RCA connector** has 2 parts:

- **Center pin:** Signal
- **Outer ring:** Ground

✓ Wiring Instructions for DIY XLR to RCA:

To convert **balanced XLR** to **unbalanced RCA**, you'll wire it like this:

XLR Pin	RCA Connection
Pin 1 (Ground)	RCA Sleeve (Ground)
Pin 2 (Hot)	RCA Tip (Signal)
Pin 3 (Cold)	Connect to Pin 1 (Ground) or leave unconnected (see below)

🔧 Two common approaches:

1. **Connect Pin 3 to Pin 1 (Ground):** Safely terminates the cold signal and helps reduce noise.
2. **Leave Pin 3 floating:** Sometimes used, but can increase noise or hum depending on the equipment.

🔧 Tips:

- Use shielded cable to minimize interference.
- Keep the cable short to avoid signal degradation.
- If you hear hum or buzzing, try grounding Pin 3 to Pin 1.

Would you like a wiring diagram or a parts list for building one?

Pinouts for XLR to XLR

Here's the standard **XLR-to-XLR pinout** for balanced audio connections:

🔧 XLR 3-Pin Connector Pinout

Pin	Function	Description
1	Ground (Shield)	Common ground for signal and shield
2	Hot (+)	Positive phase of the audio signal
3	Cold (-)	Negative phase of the audio signal

XLR-to-XLR Cable Wiring:

- **Pin 1 to Pin 1:** Ground to Ground
- **Pin 2 to Pin 2:** Hot to Hot
- **Pin 3 to Pin 3:** Cold to Cold

This configuration maintains the **balanced signal**, which helps reject noise and interference—ideal for long cable runs in professional audio setups.

If you're building your own XLR cable, make sure to:

- Use **shielded twisted pair cable**.
- Solder carefully to avoid shorts.
- Test continuity before use.

Would you like a visual diagram or a checklist for DIY soldering?