

Facmogu A18033

Facmogu A18033 3-Way 200W Hi-Fi Speaker Crossover Filter

User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation and use of the Facmogu A18033 3-Way 200W Hi-Fi Speaker Crossover Filter. This passive audio component is designed to separate audio signals into distinct frequency ranges (bass, midrange, and treble) for optimal sound reproduction through a multi-speaker system. Please read this manual thoroughly before installation to ensure correct setup and safe operation.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Ensure all power to the audio system is disconnected before installing or wiring the crossover filter.
- Incorrect wiring can damage your speakers, amplifier, or the crossover itself. Follow wiring diagrams carefully.
- Do not exceed the maximum power handling capacity of 200W.
- Keep the device away from moisture, extreme temperatures, and direct sunlight.
- Handle with care to avoid damaging electronic components.

3. PRODUCT OVERVIEW

The Facmogu A18033 is a passive 3-way crossover network. It features dedicated outputs for bass (woofer), midrange, and treble (tweeter) speakers, allowing each speaker to receive only the frequencies it is designed to reproduce efficiently. This results in clearer sound, improved dynamics, and reduced distortion.

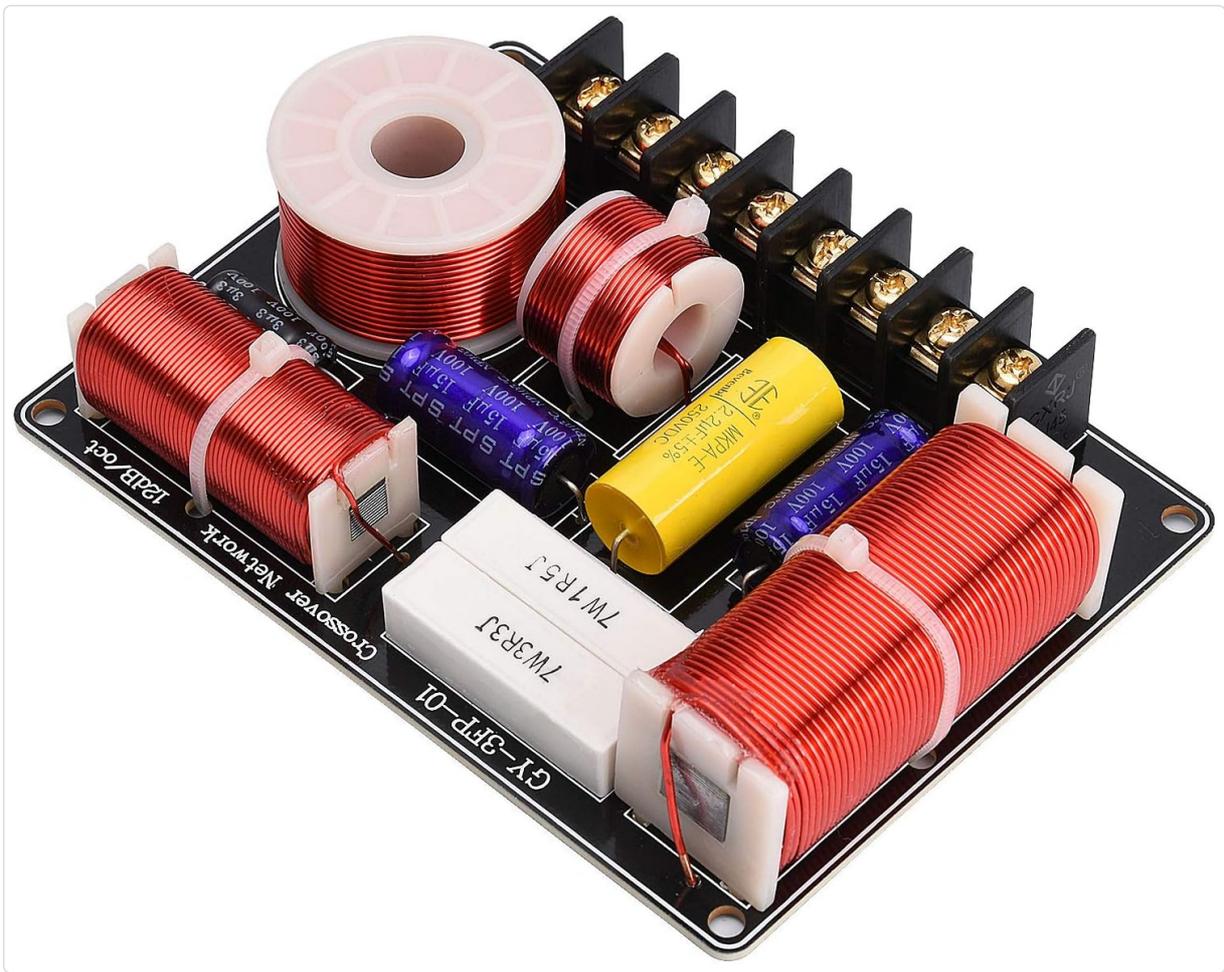


Figure 1: Top view of the crossover board, illustrating the layout of components.

4. SPECIFICATIONS

Feature	Specification
Model Number	A18033
Maximum Power Handling	200 Watts
Applicable Speaker Impedance	4-8 Ohms
Filtering Characteristics	12 dB/octave
Frequency Crossover Points	450 Hz / 4700 Hz
Dimensions (L x W x H)	119 x 78 x 30 mm (approx. 4.69 x 3.07 x 1.18 inches)
Net Weight	0.4 kg (approx. 0.88 lbs)
Number of Channels	3

5. SETUP & INSTALLATION

Follow these steps for proper installation and wiring of the crossover filter:

1. **Preparation:** Ensure your amplifier and speakers are disconnected from power. Gather necessary tools such as wire strippers, screwdrivers, and speaker wire.

2. **Identify Terminals:** The crossover board has clearly labeled terminals for input and outputs.

- **Input:** Connects to your amplifier's output. Observe polarity (+ and -).
- **W (Woofers):** Connects to your bass speaker (woofer).
- **M (Midrange):** Connects to your midrange speaker.
- **T (Tweeter):** Connects to your treble speaker (tweeter).

3. **Wiring Connections:**

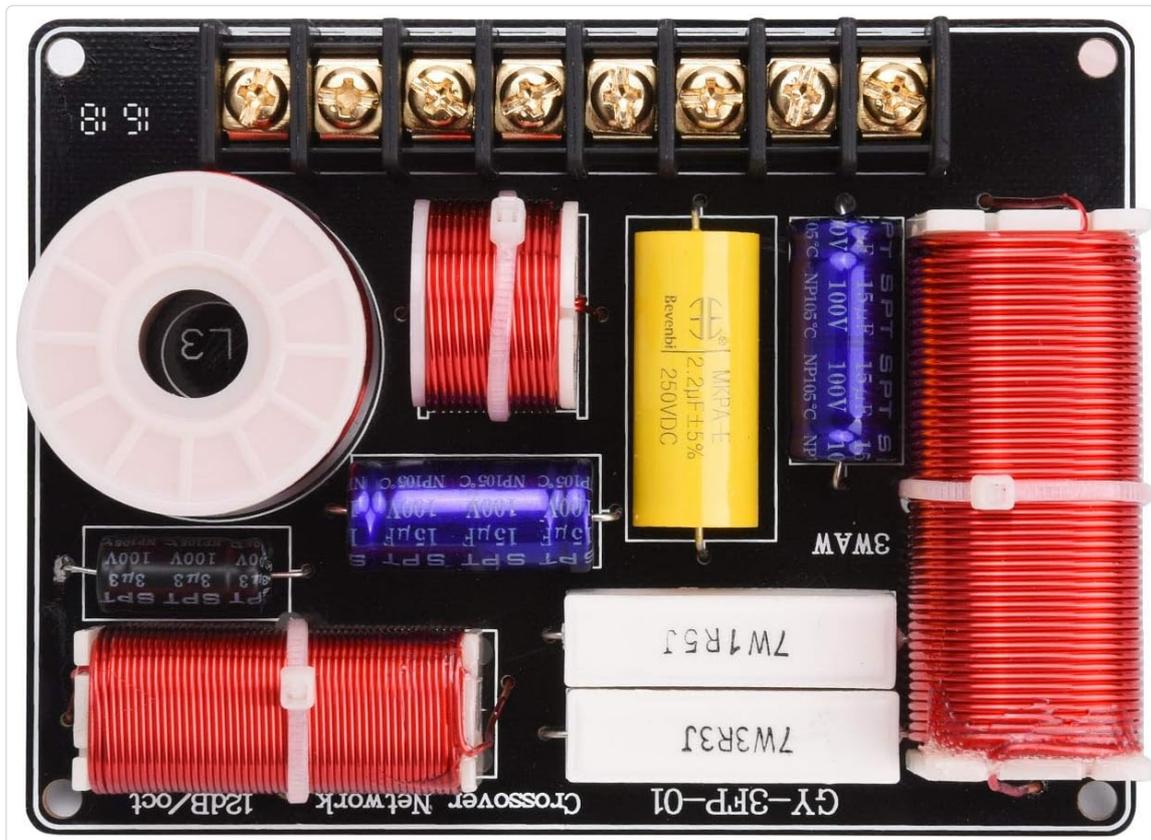


Figure 2: Detailed view of the wiring terminals on the crossover board.

Connect the speaker wires from your amplifier's output to the "Input" terminals on the crossover board. Pay close attention to positive (+) and negative (-) polarity. Then, connect the respective speaker wires from the "W", "M", and "T" terminals to your woofer, midrange, and tweeter speakers, maintaining correct polarity for each connection.

Important: Always ensure positive (+) terminals are connected to positive (+) and negative (-) to negative (-) throughout your audio system to prevent phase issues and poor sound quality.

4. **Mounting:** Securely mount the crossover board within your speaker enclosure or desired location using appropriate fasteners. Ensure it is protected from vibrations and physical damage.
5. **Testing:** Once all connections are made and secured, reconnect power to your amplifier and test the audio system at a low volume. Gradually increase the volume to verify proper sound reproduction from all speakers.



Figure 3: Angled view showing the overall component layout.

6. OPERATING INSTRUCTIONS

The Facmogu A18033 is a passive crossover filter, meaning it does not require external power and operates by filtering the audio signal directly. Once correctly installed and wired, it functions automatically to direct the appropriate frequency ranges to each connected speaker. There are no user-adjustable settings on this device.

7. MAINTENANCE

This crossover filter requires minimal maintenance:

- **Cleaning:** Periodically clean the board with a soft, dry cloth to remove dust. Do not use liquid cleaners.
- **Inspection:** Occasionally inspect wiring connections to ensure they remain secure and free from corrosion.
- **Environment:** Ensure the crossover is installed in a dry, well-ventilated area, away from direct heat sources or excessive moisture.

8. TROUBLESHOOTING

If you experience issues with your audio system after installing the crossover, consider the following:

- **No Sound from a Speaker:**
 - Check all wiring connections for that specific speaker and its corresponding terminal on the crossover.
 - Ensure speaker wires are not broken or short-circuited.
 - Verify the speaker itself is functional by testing it with a known good source (if safe to do so).
- **Distorted or Unbalanced Sound:**
 - Double-check all positive (+) and negative (-) wiring polarities. Incorrect polarity can cause phase cancellation and poor sound.
 - Ensure the amplifier is not overdriven.
 - Verify that the speaker impedance matches the recommended range (4-8 Ohms).
- **Overheating:**
 - If the crossover components feel excessively hot, it may indicate an impedance mismatch or that the power handling limit is being exceeded. Reduce volume or check your system's power output.
 - Ensure adequate ventilation around the crossover.

If problems persist, consult a professional audio technician.

9. PACKAGE CONTENTS

The package includes:

- 1 x Facmogu A18033 3-Way Speaker Crossover Filter

10. WARRANTY AND SUPPORT

Specific warranty information for the Facmogu A18033 is not provided in this manual. Please refer to the retailer or manufacturer's website for details regarding warranty coverage and customer support. Keep your purchase receipt as proof of purchase.

For technical assistance or inquiries, please contact Facmogu customer service through their official channels.