

## Gikfun EK1794

# Gikfun EK1794 4Ohm 40mm 3W Full Range Audio Speaker User Manual

Model: EK1794

## 1. INTRODUCTION

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This manual provides essential information for the proper setup, operation, and maintenance of your Gikfun 4Ohm 40mm Diameter 3W Full Range Audio Speakers. These speakers are designed for various audio projects, including DIY electronics, radio replacements, and multimedia applications. Please read this manual thoroughly before use to ensure optimal performance and safety.

## 2. PRODUCT OVERVIEW

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### 2.1 Key Features

- **Compact Design:** 40mm diameter, suitable for small enclosures and DIY projects.
- **Full Range Audio:** Delivers a broad spectrum of sound for clear audio reproduction.
- **Standard Impedance:** 4 Ohm nominal impedance for wide compatibility with audio amplifiers.
- **Power Rating:** 3W maximum output power.
- **Durable Construction:** Features a robust metal frame and durable paper cone.

### 2.2 Product Dimensions

Refer to the diagram below for detailed measurements of the speaker unit.



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Gikfun Inc focus on electronic design, development and marketing of Arduino.  
We'd like to receive your valuable suggestions for our products and make your idea come true.

Image: Detailed dimensions of the Gikfun 4Ohm 40mm 3W Full Range Audio Speaker, showing diameter, height, and magnet size in millimeters.

### 3. SAFETY INFORMATION

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- Ensure proper polarity when connecting speakers to avoid damage to the amplifier or speakers.
- Do not exceed the rated power input of 3W to prevent speaker coil burnout.
- Keep speakers away from moisture and extreme temperatures.
- Handle with care to avoid damaging the speaker cone or terminals.
- For DIY projects, ensure all electrical connections are secure and insulated to prevent short circuits.

### 4. PACKAGE CONTENTS

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The package includes the following items:

- 2 x Gikfun 4Ohm 40mm Diameter 3W Full Range Audio Speaker (Model: EK1794)



Image: Front view of two Gikfun 40mm 3W Full Range Audio Speakers.



Image: Back view of two Gikfun 40mm 3W Full Range Audio Speakers, highlighting the positive and negative terminals.

## 5. SETUP

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These speakers are designed for integration into various audio systems and DIY projects. Follow these general guidelines for setup:

1. **Identify Terminals:** Each speaker has two terminals, typically marked with '+' for positive and '-' for negative. Ensure correct polarity when connecting to an amplifier or audio source.
2. **Wiring:** Connect the positive terminal of the speaker to the positive output of your amplifier/audio source, and the negative terminal to the negative output. For stereo setups, ensure left and right channels are

correctly wired to their respective speakers.

3. **Mounting:** Secure the speakers in an appropriate enclosure or mounting point. The 40mm diameter allows for flush mounting in many applications. Ensure the mounting is stable and does not obstruct the speaker's movement.
4. **Testing:** Before final assembly, perform a low-volume test to confirm correct wiring and functionality.



Image: Example of Gikfun 4Ohm 3W speakers connected to a smartphone via amplifier circuit boards for a DIY audio project.

Your browser does not support the video tag.

Video: Demonstration of the Gikfun 4Ohm 3W speaker's application in a DIY audio setup, showing connection to a smartphone and sound output.

## 6. OPERATING INSTRUCTIONS

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Once properly installed and connected to an audio amplifier or source, the Gikfun speakers will reproduce sound from the connected device.

- **Power On:** Ensure your audio source and amplifier (if used) are powered on.
- **Audio Playback:** Begin playing audio from your connected device.
- **Volume Control:** Adjust the volume directly from your audio source or amplifier. Avoid setting the volume too high, which can cause distortion and potentially damage the speakers.

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Video: A brief overview demonstrating the Gikfun 4Ohm 40mm Diameter 3W Full Range Audio Speaker in operation.

## 7. MAINTENANCE

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To ensure the longevity and performance of your speakers, follow these maintenance tips:

- **Cleaning:** Gently wipe the exterior of the speakers with a soft, dry cloth. Do not use liquid cleaners or abrasive materials.

- **Storage:** When not in use, store speakers in a dry, dust-free environment, away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically check wiring connections for looseness or corrosion.

## 8. TROUBLESHOOTING

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If you encounter issues with your Gikfun speakers, refer to the following common problems and solutions:

- **No Sound:**
  - Check all wiring connections to ensure they are secure and correctly polarized.
  - Verify that the audio source and amplifier (if applicable) are powered on and functioning.
  - Ensure the volume on your audio source is not muted or set too low.
- **Distorted Sound:**
  - Reduce the volume level from your audio source or amplifier.
  - Check for loose connections or damaged wiring.
  - Ensure the speaker is not overdriven beyond its 3W power rating.
- **One Speaker Not Working (Stereo Setup):**
  - Inspect the wiring for the non-functioning speaker.
  - Test the speaker with a different audio channel or source if possible to isolate the problem.

## 9. TECHNICAL SPECIFICATIONS

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Specification	Value
Brand	Gikfun
Model Name	EK1794
Speaker Type	Full Range Audio Speaker / Woofer
Nominal Impedance	4 Ohm $\pm$ 15%
Input Power Rating	2W
Speaker Maximum Output Power	3 Watts
Speaker Size / Woofer Diameter	40 Millimeters
Frequency Response	0-20KHz
Resonance Frequency	320Hz $\pm$ 20%
Insulation Resistance	10M $\Omega$
Characteristic Sensitivity	83 $\pm$ 3dB
Distortion Factor	Maximum 5%
Enclosure Material	Plastic
Item Dimensions (D x W x H)	1.57"D x 1.57"W x 0.79"H
Number of Items	2

Specification	Value
ASIN	B01LN8ONG4
UPC	728821643359, 728821642871

## 10. WARRANTY AND SUPPORT

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Gikfun products are manufactured to high-quality standards. For any questions, technical assistance, or warranty claims, please contact Gikfun customer support through the retailer's platform or the official Gikfun website. Please retain your proof of purchase for warranty service.