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BIC FH-65B

BIC America FH-65B Formula Series Bookshelf Surround Speaker User Manual

Model: FH-65B

1. Introduction

Thank you for choosing the BIC America FH-65B Formula Series Bookshelf Surround Speaker. This speaker is designed to deliver high-fidelity audio for both home theater and music applications, featuring a custom-designed mid/high frequency horn tweeter and a powerful 6-1/2 inch injection-molded woofer. This manual provides essential information for safe installation, operation, and maintenance of your speaker.

2. Safety Instructions

Please read and follow these safety instructions carefully to ensure safe operation and to prevent damage to your speaker or property.

- **Placement:** Place speakers on a stable, level surface or mount securely. Avoid placing near heat sources, direct sunlight, or in areas with excessive moisture.
- **Ventilation:** Ensure adequate air circulation around the speaker. Do not block any ventilation openings.
- **Power:** This is a passive speaker and does not require direct AC power. Connect only to appropriate amplifier outputs.
- **Cleaning:** Disconnect from amplifier before cleaning. Use a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Overload:** Avoid operating the speaker at excessively high volumes for extended periods, which can cause damage to the speaker components and hearing loss.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

3. Package Contents

Carefully unpack your speaker and check for the following items:

- BIC America FH-65B Bookshelf Surround Speaker
- User Manual (this document)

If any items are missing or damaged, please contact your retailer immediately.

4. Setup

4.1 Speaker Placement

Proper speaker placement is crucial for optimal sound performance. The FH-65B speakers are versatile and can be used as front, rear, or surround speakers in a home theater system, or as stereo speakers.

- **Bookshelf Placement:** Place speakers on sturdy shelves or stands at approximately ear level when seated. Ensure there is some space behind the speaker for bass port operation.
- **Surround Placement:** For surround sound, place speakers to the sides or slightly behind the listening position, typically above ear level.
- **Stereo Setup:** Position speakers equidistant from the listening position, forming an equilateral triangle. Angle them slightly inward towards the listener (toe-in) for a more focused soundstage.



Figure 1: Front view of the BIC America FH-65B speaker, showing the horn tweeter and woofer.

4.2 Speaker Connections

The FH-65B speaker connects to your amplifier or receiver using standard speaker wire. Ensure your amplifier is turned off before making any connections.

1. **Prepare Speaker Wire:** Strip approximately 1/2 inch (1.25 cm) of insulation from both ends of your speaker wire. Twist the bare strands tightly to prevent stray wires.
2. **Identify Polarity:** Speaker wire is typically marked to distinguish between the positive (+) and negative (-) conductors (e.g., a stripe, ribbing, or different color wire). It is crucial to connect positive to positive and negative to negative at both the speaker and the amplifier.
3. **Connect to Speaker:** Unscrew the binding posts on the back of the FH-65B speaker. Insert the positive (+) wire into the red terminal and the negative (-) wire into the black terminal. Tighten the binding posts securely.
4. **Connect to Amplifier/Receiver:** Connect the other end of the speaker wire to the corresponding speaker output terminals on your amplifier or receiver, ensuring correct polarity (+ to + and - to -).



Figure 2: Rear view of the FH-65B speaker showing the gold-plated binding posts for speaker wire connection. Note the '+' and '-' markings for polarity.

5. Operating Your Speaker

Once connected, your BIC America FH-65B speaker is ready for use. The operation of the speaker is controlled entirely by your connected amplifier or receiver.

- **Power On:** Turn on your amplifier/receiver.
- **Source Selection:** Select your desired audio source (e.g., CD player, streaming device, TV).
- **Volume Control:** Adjust the volume level using your amplifier/receiver's volume control. Start at a low volume and gradually increase it to a comfortable listening level.
- **Tone Controls:** Use your amplifier/receiver's bass and treble controls, or equalizer settings, to fine-tune the sound to your preference.

6. Maintenance

Your BIC America FH-65B speaker requires minimal maintenance to ensure long-lasting performance.

- **Cleaning the Cabinet:** Use a soft, dry, lint-free cloth to wipe the speaker cabinet. Do not use abrasive cleaners, waxes, or solvents, as these can damage the finish.
- **Cleaning the Grille:** The speaker grille can be gently vacuumed with a soft brush attachment to remove dust. If the grille is removable, it can be hand-washed with mild soap and water, then air-dried completely before reattaching.
- **Avoid Moisture:** Keep the speaker away from excessive moisture and liquids.

7. Troubleshooting

If you experience issues with your speaker, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speaker	• Loose speaker wire connection • Incorrect input selected on amplifier • Amplifier not powered on or in standby • Speaker wire short circuit	• Check all speaker wire connections at both the speaker and amplifier. Ensure polarity is correct. • Verify the correct audio input is selected on your amplifier/receiver. • Ensure amplifier is powered on and not muted. • Inspect speaker wires for frayed strands that might be touching.
Distorted or unclear sound	• Overdriven amplifier/speaker • Loose connections • Damaged speaker wire • Incorrect amplifier settings	• Reduce volume level. • Check all speaker wire connections. • Inspect speaker wire for damage; replace if necessary. • Check amplifier's tone controls or equalizer settings.
One speaker not working	• Loose connection to that specific speaker • Balance control on amplifier is off-center • Faulty speaker wire	• Check connections for the non-working speaker. • Adjust the balance control on your amplifier. • Swap speaker wires between left and right channels at the amplifier to determine if the issue follows the speaker or the amplifier channel.

If the problem persists after trying these solutions, please contact BIC America customer support or your retailer.

8. Specifications

Feature	Specification

Feature	Specification
Model	FH-65B
Speaker Type	2-Way Bookshelf / Surround Speaker
Woofer	6.5-inch Injection-Molded Woofer with Butyl Rubber Surround
Tweeter	Mid/High Frequency Horn Tweeter (1-inch equivalent)
Frequency Response	40 Hz - 23 kHz
Power Handling	175 Watts RMS / 350 Watts Peak
Impedance	8 Ohms
Sensitivity	Not specified (typical for horn designs is high)
Connectivity	Wired (Binding Posts)
Enclosure Material	Plastic, Wood
Dimensions (Approx.)	Not specified
Weight	13 pounds (per speaker)

9. Warranty and Support

The BIC America FH-65B speaker comes with a limited warranty. Please refer to the warranty card included with your product or visit the official BIC America website for detailed warranty terms and conditions.

Warranty Period: 5 years

For technical support, service inquiries, or to register your product, please visit theBIC America official store page or their corporate website.

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