



8900 Keystone Crossing, Suite 1220
Indianapolis, Indiana 46240
1-800-KLIPSCH • www.klipsch.com
Printed in China

Make sure you return your warranty card so that we may keep you up-to-date on new Klipsch products and promotions. As always, if you have any questions, contact your local authorized Klipsch dealer.

For your records:

Model

Serial Number

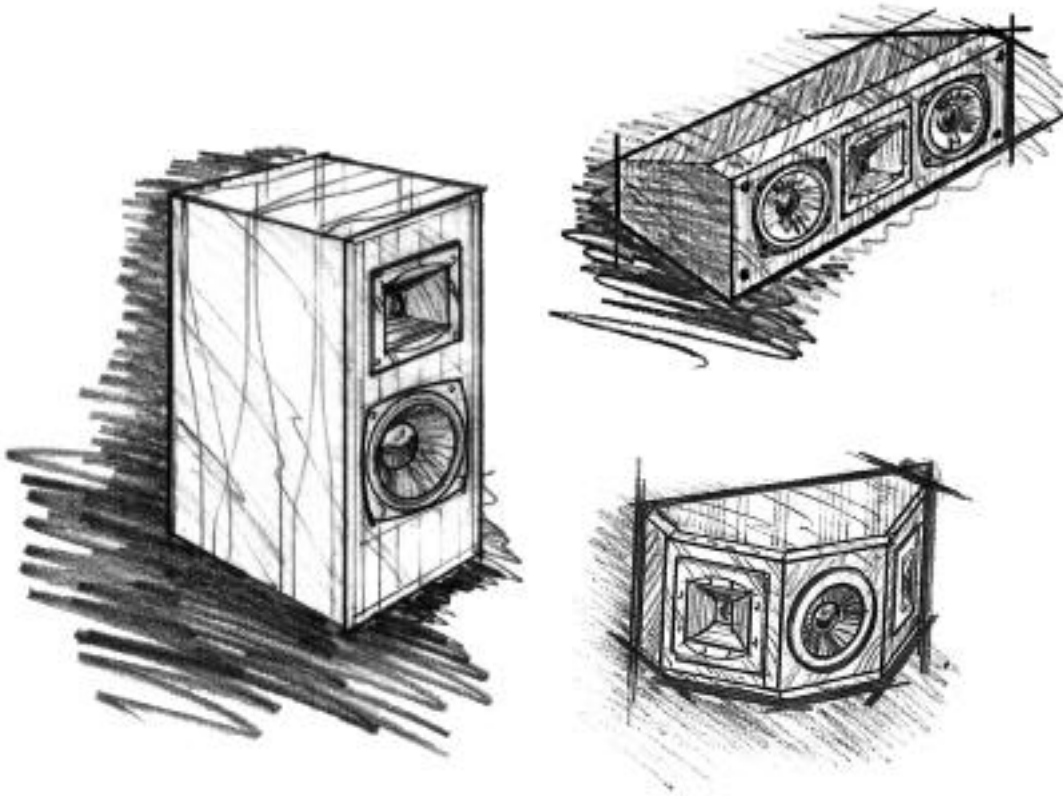
Date Purchased

Dealer Name

Klipsch, L.I.C.
P.O. Box 688
Hope, AR 71802

Place
FIRST CLASS
Postage
Stamp Here

SB-1, SC .5, SS.5 Loudspeaker System



Owner's Manual & Warranty



1999 KLIPSCH SYNERGY SERIES™



CAUTION: RISK OF ELECTRIC SHOCK! DO NOT OPEN!



CAUTION! To reduce the risk of electric shock and fire, do not remove the cover or back plate of this device. There are no user-serviceable parts inside. Refer repairs to a Klipsch authorized service center.
AVIS: Risque de choc électrique, ne pas ouvrir.



CAUTION! The international symbol of a lightning bolt inside a triangle is intended to caution you to uninsulated “dangerous voltage” within the device’s enclosure. The international symbol of an exclamation point inside a triangle is intended to alert you to the presence of important operating, maintenance and servicing information in the manual accompanying the device.



CAUTION! To prevent electrical shock, match the wide blade of the plug on the power cord to the wide slot on the power outlet and insert fully. **ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu’au fond.**



CAUTION! To reduce the risk of electrical shock, do not expose this equipment to rain or moisture.

1. **Read Instructions.** All safety and operating instructions should be read before operating the device.
2. **Retain Instructions.** The safety and operating instructions should be retained for future reference.
3. **Heed Warnings.** All warnings on the device and in the operating instructions should be adhered to.
4. **Follow Instructions.** All operating and safety instructions should be followed.
5. **Water and Moisture.** The device should never be used in, on or near water due to risk of fatal shock.
6. **Carts and Stands.** The device should only be used on carts or stands recommended by the manufacturer.
7. **Wall and Ceiling Mounting.** The device should be mounted on a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation.** The device should always be located in such a way that it maintains proper ventilation. It should never be placed in a built-in installation or anywhere that may impede the flow of air through its heat sink or ventilation openings.
9. **Heat.** Never locate the device near heat sources such as a radiator, floor register, stove or other heat generating device.
10. **Power Supply.** The device should only be connected to a power supply of the type described in the operating instructions or as marked on the device.
11. **Polarization.** This product is equipped with a polarized line plug that has one blade wider than the other. To prevent electrical shock, match the wide blade of the plug with the wide blade slot of the receptacle and insert fully.
12. **Power Cord Protection.** Power cables should be routed so they are unlikely to be stepped on or crushed by items placed on or against them. Pay special attention to where the plug enters a socket or fused strip and to where the cord enters the device.
13. **Cleaning.** The device should be cleaned in accordance with the manufacturer’s instructions.
14. **Periods of Non-Use.** The device should be unplugged from the wall outlet when it is not in use for extended periods.

Cut along dotted line and mail.

IF YOU PREFER, YOU CAN REGISTER ONLINE AT WWW.KLIPSCH.COM

For multiple speaker purchases, please fill out only one warranty card.

Name: _____

Street Address: _____

City/State/Zip: _____

Home Phone: _____

Work Phone: _____

E-mail Address: _____

Would you like to receive the latest product updates and news via e-mail? Yes No

Product Purchase

Model and serial number must be included to honor your warranty card. For multiple speaker purchases, please fill out only one warranty card.

Model _____ Serial Number _____

Model _____ Serial Number _____

Model _____ Serial Number _____

Model _____ Serial Number _____

Model _____ Serial Number _____

Model _____ Serial Number _____

What store did you purchase your Klipsch products from?

Store Name: _____

State: _____

How did you hear about Klipsch? Audio/Home Theater Magazine Other Magazine TV
 Radio Newspaper Trade Show Friend Retail Dealer Direct Mail

Have you purchased Klipsch products before? Yes No

If yes, what products?

Product Name(s): _____

When do you hope to purchase additional loudspeakers? 6 mos. - 1 yr. 1-2 yrs.

How likely are you to consider Klipsch products for your upcoming purchases? Very likely
 Somewhat likely Doubtful

If doubtful, why? Don't carry product I'm looking for Too expensive
 Klipsch dealer too far away Other

Please tell us about you!

Married Single Student

Male Female

Age: 15-17 18-24 25-35 36-45 46-55 55-64 65+

Annual Household Income: Under \$25,000 \$25-35,000 \$35-50,000
 \$75-100,000 \$100,000+

We Want Your Klipsch Product to Look and Sound as Good as When it Left the Factory. Please Check Promptly for Transit Damage.

Each Klipsch product is individually tested for sonic quality and inspected for superior appearance before it leaves the Hope, Arkansas factory. Your loudspeaker left the factory in perfect condition in packaging carefully engineered to protect both the working parts and finish. However, in certain extreme circumstances, the products may be damaged in transit.

To ensure that your loudspeaker is in its original condition, please inspect it immediately. If any damage is discovered, notify the authorized Klipsch dealer that the unit was purchased from or the transportation company responsible for safe delivery. In the latter case, make a request for inspection from the transportation company and hold the product in its original shipping carton for the inspector. After a joint inspection report is made, file a claim with the transportation company.

Dear Klipsch Synergy Series Owner:

Congratulations on your purchase of Klipsch Synergy Series loudspeakers! These products represent the best new thinking, coupled with the Klipsch tradition of sonic excellence.

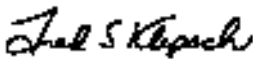
The Synergy Series was developed using the latest in materials and technology to deliver extraordinary sound from today's digital sources. Designed as a family, the Klipsch Synergy Series was developed to provide optimal performance in either a home theater or music system. For home theater use Klipsch engineers have developed voice matched center and rear surround speakers to complement the main channel speakers. All Synergy models offer the accuracy, dramatic imaging and high sensitivity that characterize the "live" Klipsch sound. By utilizing our new Tractrix[®] Horn technology, the Synergy models offer the type of high quality performance normally found only in professional speakers, ensuring you a truly enjoyable listening experience.

If this is your first Klipsch purchase, welcome to the fold; if this is an additional Klipsch purchase, we thank you for your loyalty. When it comes to the best in home entertainment, Klipsch is a sound choice.

Please take the time to fill out the enclosed warranty registration card or, if you prefer, you can register your products online at www.klipsch.com. This information helps us serve you better and assists our dealers in meeting your needs as a valued Klipsch customer. Should you have any questions or need more information on Synergy or other Klipsch products, please contact us. We will be happy to assist you, and welcome your feedback.

Thank you for choosing Klipsch loudspeakers.

Sincerely,



Fred S. Klipsch

Klipsch Limited Warranty

KLIPSCH, L.L.C. ("KLIPSCH") warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below). For a period of five (5) years from the date of purchase, KLIPSCH will repair or replace (at KLIPSCH's option) this product or any defective parts (excluding electronics and amplifiers) in this product. For products that have electronics or amplifiers, the warranty on those parts is for a period of two (2) years from the date of purchase.

To obtain warranty service, please contact the KLIPSCH authorized dealer from which you purchased this product. If your dealer is not equipped to perform the repair of your KLIPSCH product, it can be returned, freight paid, to KLIPSCH for repair. Please call KLIPSCH at 1-800-KLIPSCH for instructions. You will need to ship this product in either its original packaging or packaging affording an equal degree of protection.

Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the warranty period, must be presented to obtain warranty service.

This Warranty is invalid if (a) the factory applied serial number has been altered or removed from this product or (b) this product was not purchased from a KLIPSCH authorized dealer. You may call 1-800-KLIPSCH to confirm that you have an unaltered serial number and/or you purchased from a KLIPSCH authorized dealer.

This Warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of, the product. This Warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than KLIPSCH or a KLIPSCH dealer which is authorized to do KLIPSCH warranty work. Any unauthorized repairs will void this Warranty. This Warranty does not cover products sold AS IS or WITH ALL FAULTS.

REPAIRS OR REPLACEMENTS AS PROVIDED UNDER THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE CONSUMER. KLIPSCH SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PRACTICAL PURPOSE.

Some states do not allow the exclusion or limitation of incidental or consequential damages or implied warranties so the above exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other rights which vary from state to state.

15. **Dangerous Entry.** Care should be taken that no foreign objects or liquids fall or are spilled inside the device.
16. **Damage Requiring Service.** The device should be serviced by a Klipsch authorized service center when:
 - The plug or power supply cord has been damaged.
 - Objects have fallen or liquid spilled inside of the device.
 - The device has been exposed to moisture.
 - The device does not appear to be operating properly or exhibits a marked change in performance.
 - The device has been dropped or the cabinet has been damaged.
17. **Service.** The user should not attempt to service the device beyond what is described in the operating instructions. All other servicing should be referred to qualified personnel. If dealer service is not available, contact Klipsch customer service for a return authorization (RA) number before shipping.

Klipsch Customer Service: 800-554-7724

All return shipments should be made to:

Klipsch L.L.C.
137 County Road #278
Hope, AR 71801
RA#...(return authorization number required)

- Locate the wall stud that is the closest to your desired mounting location and drill the proper size pilot hole in the wall. Allow at least 1 1/2" of clearance space between the top of the screw head and any barrier above it (ceiling or shelf).
- Use a #10 or #12 (2 1/2 - 3" long) pan head wood screw to mount into the wall stud.
- Check the fit of the screw head in the keyhole fitting before installation as screw head sizes do vary.
- Install the screw into the wall stud leaving the back surface of the screw head protruding about 1/4-inch from the wall surface. This will facilitate hooking the keyhole bracket over the screw head with the rubber feet installed. The clearance between the wall and the screw head may need to be adjusted to achieve a proper fit.
- If a stud is not available, use the proper type and weight rating of drywall or masonry anchor appropriate for the wall construction. Please consult your dealer, custom installer or a building contractor in this situation.
- Do not use the keyhole mounting bracket for ceiling installations! Please consult your dealer, custom installer or a building contractor in this situation.



SPEAKER WIRE CONNECTIONS

Switch your electronics OFF when making all connections! When making any type of speaker wire connection, be sure to observe proper polarity (+ to + and - to -). Most speaker wire is insulated, two conductor, stranded construction and is color-coded or has some distinguishing feature differentiating the two conductors. Speaker wire connectors on most loudspeakers and amplifiers are also color-coded. Typically, RED is positive (+) and BLACK is negative (-), or ground. It does not matter which conductor is connected to the positive or negative terminals of your equipment as long as you are consistent. Be sure that the connections from all of the amplifier channels to all of the speakers in your system are connected in a like manner. If not, the quantity of bass will be reduced and the stereo image will be compromised. Be careful to avoid excess bare wire or loose strands of wire at the connections. This could cause a short between adjacent positive and negative terminals, damaging your amplifier. Eighteen gauge (AWG) wire is the minimum size recommended for short distances with larger gauges recommended for longer runs. Consult your Klipsch dealer for specific suggestions.

Connect the SB-1 to the "Front" or "Main" channel speaker outputs of your system's power amplifier.

Connect the SC.5 to the "Center" channel speaker output of your system's power amplifier.

Connect the SS.5 to the "Rear" or "Surround" channel speaker outputs of your system's power amplifier. When connecting surround speakers to the rear channels of a 5.1 channel system, it is important that they are hooked up to the appropriate left and right rear channels as the surround effects are in stereo.

BASS MANAGEMENT

Most surround sound electronics are equipped with a bass management system that permits the selection of a full- or limited-range (bass filtered) operation for each speaker. You will normally configure the main channels of your surround processor for the "Large" or "Full Range" setting. This will provide a full range signal to the SB-1s when used without an optional subwoofer. If a powered subwoofer is connected to the systems main channels, the "Large" setting will again be selected. Some subwoofers provide bass filtering for your main speakers when they are connected directly to the subwoofer. This type of hookup can reduce distortion and increase the dynamic capabilities of your main speakers. If the subwoofer is connected to a line level subwoofer output on your electronics, you can filter the bass signals from your main speakers by selecting the "Small" or "Limited Range" setting for the main channels. Set the center and surround channels to the "Small" or "Limited Range" setting. Consult your Klipsch dealer for more specifics on the bass management configuration of your electronics.

Service

If servicing is required return your speaker to your authorized Klipsch dealer for servicing by qualified personnel. If dealer service is not available, contact Klipsch customer service for a Return Authorization number before shipping (required).

Klipsch Customer Service: 800-554-7724

All return shipments should be made to:
Klipsch L.L.C.
137 County Road #278
Hope, AR 71801
RA#...(return authorization number required)

Cautions

- Regardless of your amplifier's rated capacity, do not operate the system at the full output (highest volume): Amplifiers can create extremely high levels of distortion when operated at full output and can damage your loudspeakers. Most amplifiers are at full power when the volume control is at or just above the 12 o'clock position.
- Position speaker connection wires so that they do not create a trip hazard.

If you have any questions regarding the installation or connection of your Klipsch Synergy speakers, please contact your Klipsch dealer or contact us directly at 800-554-7724.

Care and Cleaning of Your Klipsch Synergy Speakers

Your speakers have a durable matte vinyl finish that should only require dry dusting or cleaning with a damp cloth. Avoid the use of abrasive or solvent-based cleaners and harsh detergents.

Component Specifications

SB-1

Sensitivity: 92dB @ 1 watt / 1 meter
Bandwidth: 60Hz-20kHz±3dB
Nominal Impedance: 8 ohms
Crossover Frequency: 2700Hz
Power Handling: 75 watts maximum continuous
(300 watts peak)
Enclosure Type: Bass reflex via wide flare, rear-firing port
Drive Components: Two-way system using one 1" (2.54cm) K-109-A magnetically shielded, polymer dome compression driver with a 90° x 60° Tractrix Horn and one 5.25" (13.33cm) K-1096-AB magnetically shielded woofer featuring a polymer housing and IMG cone
Net Weight: 9 lbs. (4.1kg)
Height: 12.5" (31.75cm)
Width: 6.5" (16.5cm)
Depth: 8" (20.32cm)
Cabinet: Medium density fiber board construction (MDF)
Finish: Woodgrain vinyl veneer

SS.5

Sensitivity: 90dB @ 1 watt / 1 meter
(equivalent sound energy)
Bandwidth: 70Hz-20kHz±3dB
Nominal Impedance: 8 ohms
Crossover Frequency: 2200Hz
Power Handling: 50 watts maximum continuous
(200 watts peak)
Enclosure Type: Sealed
Drive Components: Two-way system using two 1" (2.54cm) K-110-A polymer dome compression drivers with 90° x 60° Tractrix Horns and one 4" (10.16cm) K-1098-A polymer cone woofer
Net Weight: 5 lbs. (2.2kg)
Height: 5.6" (14.2cm)
Width: 12.63" (32.0cm)
Depth: 5.43" (13.8cm)
Cabinet: Medium density fiber board construction (MDF)
Finish: Black

SC.5

Sensitivity: 90dB @ 1 watt / 1 meter
Bandwidth: 70Hz-20kHz±3dB
Nominal Impedance: 8 ohms
Crossover Frequency: 2700Hz
Power Handling: 50 watts maximum continuous
(200 watts peak)
Enclosure Type: Sealed
Drive Components: Two-way system using one 1" (2.54cm) K-109-AB magnetically shielded, polymer dome compression driver with a 90° x 60° Tractrix Horn and two 4" (10.16cm) K-1097-AV magnetically shielded, polymer cone woofers.
Net Weight: 7 lbs. (3.2kg)
Height: 5.5" (14.0cm)
Width: 14.5" (36.8cm)
Depth: 6.25" (15.8cm) with grille
Cabinet: Medium density fiber board construction (MDF)
Finish: Black matte vinyl



This product complies with the essential requirements of EMC directives 89/336/EEC and 73/23/EEC (inclusive of 93/68/EEC) and carries the CE mark accordingly.

Klipsch Synergy Series Technology

The Klipsch Synergy Series is a complete, matched family of high performance loudspeakers that offers superior home theater and two-channel performance. This series is anchored by the SB-1 main channel speakers, with the voice-matched companion SC.5 center and SS.5 surround speakers completing the family. A smaller version of our newest square Tractrix Horn, is paired with high output polymer cone woofers to maximize the clarity and dynamic impact from today's digital sources. The speakers feature video shielding and a "floating" grille design that gives the speakers a handsome, contemporary style with minimal sonic interference. Flush mounted components and narrow front profiles are combined with time-aligned drivers and simple, minimum phase filter networks to provide truly extraordinary soundstaging. The rear soundfield, in a full surround system configuration, is provided by the Klipsch SS.5 speakers. These speakers contain an array of three drivers that flood the back of the listening room with high quality direct and reflected sound, providing both pinpoint rear channel imaging and ambient envelopment.

Speaker Placement

SYNERGY SB-1 MAIN SPEAKERS

Both speakers should be placed on the same wall facing the listening area. For best results, use a high quality rigid stand that places the speaker's horn tweeter at ear level when seated. Space the loudspeakers so they are between six and 15 feet apart. The listening area should be at least the same distance back from the plane of the loudspeakers as they are apart. For a higher quality stereo image, angle, or toe in, the speakers towards the listener.

The desired spread between the speakers may be different for a home theater application than it would be for a two-channel audio system. Some correlation between the size of the video and sonic image may dictate the final placement of the speakers. For best results, bring the main speakers forward of the location of the center speaker so that all three front speakers are equidistant from the central viewing position. Some surround electronics allow you to accomplish this electronically by inputting the distance from the viewing seat to each speaker.

Additional bass output will result if you place the speakers in a corner or near a wall due to the additional reflected energy from these surfaces. This may, however, degrade imaging quality so these two attributes must be balanced depending upon your sonic priorities. Room acoustics vary, so experiment with specific placement within the listening area. Four stick-on rubber feet are included to attach to the speaker bottom for installation on hard surfaces.

SYNERGY SC.5 CENTER SPEAKER

Place the center speaker on top of or just below the video screen, centered. This anchors center channel sounds to the on-screen image, particularly for off-center viewers. When placing the speaker below the television, invert the speaker so that it rests on the angled top portion of its cabinet. This will direct the sound up to compensate for a low placement height. The grille may be installed in an inverted position so the Klipsch logo is properly oriented. Four stick-on rubber feet are included for attachment to the speaker bottom to prevent vibration and scratching of the television cabinet or shelf.

SYNERGY SS.5 SURROUND SPEAKER

Due to their full 180° coverage pattern, the SS.5s offer a high degree of placement flexibility and will perform well in a variety of locations. The most common placement for home theater rooms is on the side walls, adjacent to or behind the listening area, or on the rear walls near the corners of the room. A height of approximately five to seven feet from the floor to the base of the speaker is recommended.

Your Klipsch surround speaker may be wall mounted by using the supplied keyhole bracket on the rear of the cabinet. This bracket is intended to attach to a screw secured into a wall stud.

WALL MOUNTING THE SS.5 SURROUND SPEAKER

- Install the four rubber stick-on bumpers (one on each corner of the rear panel of the speaker) to provide clearance for the speaker wire between the wall and cabinet. This will also prevent the speaker from marring the wall.