



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

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

193110
15M1199

SP-1, SF-2, SF-1, SB-3, SB-2, SC-1, & SS-1
LOUDSPEAKERS



Owner's Manual & Warranty

 **Klipsch**[®] INC.
A LEGEND IN SOUND.

K L I P S C H S Y N E R G Y S E R I E S TM



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.



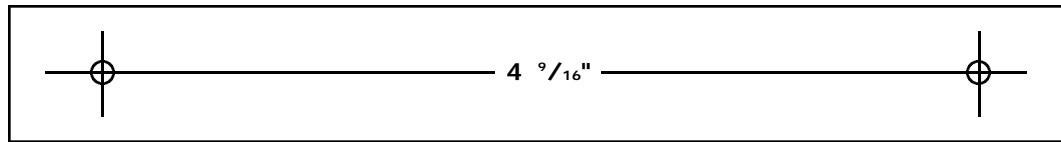
CAUTION! To prevent electrical shock, match the wide blade of the plug on the power cord to the wide slot on the power outlet and insert fully. **ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.**



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.

SS-1 Wall Mount Hole Marking Template



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+

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)

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.

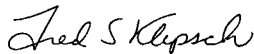
The Synergy Series was developed using the latest in materials and technology to deliver extraordinary sound from today's digital sources. Designed as a family, the Klipsch Synergy Series was developed to provide optimal performance in either a home theater or music system. For home theater use Klipsch 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
Chairman & CEO

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 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.

Component Specifications

SB-2

Sensitivity: 93dB @ 1 watt / 1 meter
Bandwidth: 54Hz-20kHz±3dB
Nominal Impedance: 8 ohms
Crossover Frequency: 2400Hz
Power Handling: 85 watts maximum continuous (340 watts peak)
Enclosure Type: Bass reflex via wide flare, rear-firing port
Drive Components: Two-way system using one 1" (2.54cm) K-101-S neodymium magnet, aluminum dome compression driver with a 90° x 60° Tractrix Horn and one 6.5" (16.51cm) K-1092-SB magnetically shielded woofer featuring a polymer housing and IMG cone
Net Weight: 13 lbs. (5.9kg)
Height: 15" (38.1cm)
Width: 7.3" (18.5cm)
Depth: 9.75" (24.7cm)
Cabinet: Medium density fiber board construction (MDF)
Finish: Woodgrain vinyl veneer

SB-3

Sensitivity: 94dB @ 1 watt / 1 meter
Bandwidth: 52Hz-20kHz±3dB
Nominal Impedance: 8 ohms
Crossover Frequency: 2700Hz
Power Handling: 100 watts maximum continuous (400 watts peak)
Enclosure Type: Bass reflex via wide flare, rear-firing port
Drive Components: Two-way system using one 1" (2.54cm) K-101-S neodymium magnet, aluminum dome compression driver with a 90° x 60° Tractrix Horn and one 8" (20.3cm) K-1093-SB magnetically shielded woofer featuring a polymer housing and IMG cone
Net Weight: 18 lbs. (8.18kg)
Height: 17" (43.18cm)
Width: 8.69" (22.06cm)
Depth: 11.25" (28.57cm)
Cabinet: Medium density fiber board construction (MDF)
Finish: Woodgrain vinyl veneer

SF-1

Sensitivity: 94dB @ 1 watt / 1 meter
Bandwidth: 40Hz-20kHz±3dB
Nominal Impedance: 8 ohms
Crossover Frequency: 2kHz
Power Handling: 100 watts maximum continuous (400 watts peak)
Enclosure Type: Bass reflex via wide flare, rear-firing port
Drive Components: Two-way system using one 1" (2.54cm) K-101-S neodymium magnet, aluminum dome compression driver with a 90° x 60° Tractrix Horn and one 6.5" (16.51cm) K-1075-SB magnetically shielded woofer featuring a polymer housing and IMG cone
Net Weight: 33 lbs. (15kg)
Height: 33" (83.82cm)
Width: 8" (20.32cm)
Depth: 13.6" (34.54cm)
Cabinet: Medium density fiber board construction (MDF)
Finish: Woodgrain vinyl veneer

SF-2

Sensitivity: 96dB @ 1 watt / 1 meter
Bandwidth: 35Hz-20kHz±3dB
Nominal Impedance: 8 ohms
Crossover Frequency: 2.8kHz
Power Handling: 100 watts maximum continuous (400 watts peak)
Enclosure Type: Bass reflex via wide flare, rear-firing port
Drive Components: Two-way system using one 1" (2.54cm) K-101-S neodymium magnet, aluminum dome compression driver with a 90° x 60° Tractrix Horn and two 6.5" (16.51cm) K-1078-SB magnetically shielded woofers featuring a polymer housings and IMG cones
Net Weight: 38 lbs. (17.3kg)
Height: 35" (88.9cm)
Width: 8" (20.32cm)
Depth: 13.6" (34.54cm)
Cabinet: Medium density fiber board construction (MDF)
Finish: Woodgrain vinyl veneer

SP-1

Sensitivity: 94dB @ 1 watt / 1 meter
Bandwidth: 30Hz-20kHz±3dB
Nominal Impedance: 8 ohms
Crossover Frequencies: 2.3kHz and 125Hz
Power Handling: 100 watts maximum continuous (400 watts peak)
Enclosure Type, Tweeter and Mid Bass: Sealed
Enclosure Type, Subwoofer: Bass reflex via wide flare, rear-firing port
Drive Components: Three-way system using one 1" (2.54cm) K-101-S neodymium magnet, aluminum dome compression driver with a 90° x 60° Tractrix Horn, one 5.25" (13.33cm) K-1076-SV magnetically shielded mid-bass woofer featuring a polymer housing and IMG cone and one 8" (20.32cm) K-1077-SB magnetically shielded woofer featuring a polymer housing
Subwoofer Amplifier: Class A/B MOSFET-225 watts FTC-rated power: 55 watts, 4 ohms, 22-125Hz @ 1% THD maximum
Auto Power: 2 second ON delay, 15 minute OFF delay
Inputs: High level speaker terminals via five-way binding posts, 1) Line level dedicated LFE input via RCA phono jack (non-filtered)
Outputs: 1) Line level LFE output via RCA phono jacks (pass through from LFE input)
Net Weight: 47 lbs. (21.36kg)
Height: 37" (93.98cm)
Width: 9" (22.86cm)
Depth: 14" (35.56cm)
Cabinet: Medium density fiber board construction (MDF)
Finish: Woodgrain vinyl veneer
Voltage: 110/120VAC 60Hz
Export version: 230VAC 50/60Hz

SC-1

Sensitivity: 95dB @ 1 watt / 1 meter
Bandwidth: 60Hz-20kHz±3dB
Nominal Impedance: 8 ohms
Crossover Frequency: 2.2kHz
Power Handling: 100 watts maximum continuous (400 watts peak)
Enclosure Type: Sealed
Drive Components: Two-way system using one 1" (2.54cm) K-101-S neodymium magnet, aluminum dome compression driver with a 90° x 60° Tractrix Horn and two 5.25" (13.3cm) K-1079-SV magnetically shielded woofers featuring polymer housings and IMG cones
Net Weight: 15 lbs. (6.78kg)
Height: 6.5" (16.5cm)
Width: 18" (45.72cm)
Depth: 7.5" (19.1cm)
Cabinet: Medium density fiber board construction (MDF)
Finish: Black matte vinyl

SS-1

Sensitivity: 94dB @ 1 watt / 1 meter (equivalent sound energy)
Bandwidth: 60Hz-20kHz±3dB
Nominal Impedance: 8 ohms
Crossover Frequency: 2kHz
Power Handling: 100 watts maximum continuous (400 watts peak)
Enclosure Type: Sealed
Drive Components: Two-way system using two 1" (2.54cm) K-101-S neodymium magnet, aluminum dome compression drivers with 90° x 60° Tractrix Horns and one 5.25" (13.3cm) K-1076-S woofer featuring a polymer housing and IMG cone
Net Weight: 8.5 lbs. (3.9kg)
Height: 6.75" (17.15cm)
Width: 15" (38.1cm)
Depth: 6" (15.24cm)
Cabinet: Medium density fiber board construction (MDF)
Finish: Black or white



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.

Wall Mounting

- 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.
- Cut out the template on the back cover of the owner's manual to assist in obtaining proper spacing of the two mounting holes. If the template is not available, space the mounting screws $4\frac{9}{16}$ " apart on a vertical line. Allow at least $1\frac{1}{2}$ " of clearance space above the top screw.
- Check the vertical orientation of the marked hole locations with a torpedo level before drilling.
- Use a #10 or #12 ($2\frac{1}{2}$ -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.
- Drill the proper size pilot holes at the marked positions and install the screws into the wall stud. Leave the back surface of the screw head protruding about $\frac{1}{4}$ -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 brackets for ceiling installations!**



How to Connect the Synergy Series Speakers

AC POWER / SP-1 ONLY

Since your **SP-1** has an internal subwoofer power amplifier, it must be plugged into a nearby AC wall outlet. The **SP-1** should be unplugged from the AC power with the power switch in the OFF position during hook up and installation. To eliminate a tripping hazard, all connections should be unplugged from the back panel of the speaker if it is being moved. Avoid extremely long extension cords of small gauge since they can impair the performance of the subwoofer amplifier and present a potential fire hazard. If the **SP-1** will not be used for an extended period of time, unplug the power cord from the AC power outlet.

Note: 230 volt models are not supplied with an AC power cord, but are equipped with an IEC-type power cord socket.

CAUTION!

Since your Klipsch SP-1 has built-in electronics, do not place it near sources of heat or moisture. Take care to route the power cord so that it will not be cut, damaged or pinched.

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 not to have excess bare wire or loose strands of wire at the connections. This could cause a short between adjacent positive and negative terminals, damaging your speakers and 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-2**, **SB-3**, **SF-1**, **SF-2** or **SP-1** to the "Front" or "Main" channel speaker outputs of your system's power amplifier.

Connect the **SC-1** to the “**Center**” channel speaker output of your system’s power amplifier.

Connect the **SS-1** 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.

LINE LEVEL CONNECTIONS / SP-1 ONLY

Switch your electronics OFF when making all connections! These connections should be made using high quality shielded interconnect cables terminated with RCA phono plugs. These cables should be as short as possible and kept away from noise-generating electrical equipment, such as digital electronics or electric motors. Consult your Klipsch dealer for specific cable recommendations.

LFE IN / SP-1 Only (optional)

The “**LFE IN**” input on the **SP-1** is a full range input that requires a low pass filtered signal from your surround electronics’ subwoofer or LFE output. **Do not connect this input to a full range (unfiltered) pre-amp output.** It is typically used with the newest 5.1 (six channel) surround sound systems. The LFE channel contains a different bass signal than the bass frequencies present in the other channels. This information can be up to 10 decibels louder than the main channel bass signals, so caution should be exercised when connecting to this output and initially adjusting the **SP-1’s “BASS CONTOUR”** control. The **LFE IN** must not be the only connection to the **SP-1**. The “**SPEAKER IN**” terminals are the primary connection for the **SP-1**.

LFE OUT / SP-1 Only (optional)

This output is provided to feed the LFE signal to the other **SP-1** if it is difficult or inconvenient to connect it directly to the LFE output on your electronics.

BASS MANAGEMENT

Most surround sound electronics are equipped with a bass management system that permits the selection of a full- or limited-range (filtered) operation for each speaker. You will normally configure the main channels of your surround processor to the “Large” or “Full Range” setting and the center and surround channels to the “Small” or “Limited Range” setting. The subwoofer or LFE channel of your electronics should have its low pass filter engaged when connecting to the optional **LFE IN** input on the **SP-1**. Consult your Klipsch dealer for more specifics on the bass management configuration of your electronics.

Note: You can bass filter the bookshelf models if a Klipsch powered subwoofer is used with them. This will reduce distortion and increase dynamic range during passages that contain high levels of deep bass information. Configure your surround processor’s main channels for the “Small” setting and connect the subwoofer to the line level subwoofer output on your electronics. If speaker level hookups are used to connect the subwoofer, set the processor’s main channels to the “Large” setting and connect the SB-2s or SB-3s to the high pass filtered, speaker output terminals on the powered subwoofer.

CONTROLS / SP-1 ONLY

Bass Contour

This control adjusts the volume of the subwoofer relative to the mid- and high-frequency drivers. Use this control to compensate for room acoustics and speaker placement. This control only affects the level of the powered subwoofer in the **SP-1**. For initial setup, try the “**FLAT**” position (full counter clockwise) and then increase as desired.

Power

This switch has conventional “**ON**” and “**OFF**” positions, as well as an “**AUTO**” setting. In the “**AUTO**” position, the subwoofer will turn itself on when it receives a signal from your system. If no signal is sent for a period of 15 minutes, the sub will turn itself off. A red power light indicates a standby mode in which the amplifier will turn on when it senses a signal. Green indicates the subwoofer is on and receiving a signal.

Troubleshooting

- If one or both SP-1 subwoofers have little or no output:
 - Double check your power (AC) and system connections.
 - Make sure that the power switch on the rear control panels of both units is set to the “ON” or “AUTO” position.
 - Check that the power light on the front of the **SP-1** is lit. If not, check the AC fuse. When changing the AC main’s power fuse, unplug the power cord first. To access the fuse, use the appropriate screwdriver to unscrew the cap on the fuse receptacle. If the fuse is blown (the filament inside the glass tube is burned through), replace it with the same type and value as is printed on the amplifier panel next to the fuse holder. **NEVER INSTALL A LARGER FUSE THAN THE VALUE INDICATED ON THE AMPLIFIER PANEL.** If the fuse blows again when the subwoofer is powered up, return the unit 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)

- The **SP-1’s** powered subwoofer amplifier is protected by a thermal sensor. If the unit is run for extended periods beyond its designated power rating, the thermal sensor will engage and shut down the subwoofer. If this occurs, turn the “**POWER**” switch off, turn down the volume on your electronics and wait five minutes before restarting the system.
- If you experience a noticeable hum when the **SP-1’s** subwoofer is connected to your system (a system that includes video equipment), disconnect the cable television line (if present). If the hum disappears, consult your Klipsch dealer for a ground isolator for the cable line. If this does not solve the problem, contact your Klipsch dealer for further advise.
- 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.

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 offers a choice of two bookshelf speakers, the **SB-2** and **SB-3**, and three floorstanding main channel speakers—the **SF-1** and **SF-2** and a model with a built-in powered subwoofer, the **SP-1**. The voice-matched companion **SC-1** center speaker and **SS-1** surround speakers complete the family. A smaller version of our newest square Tractrix Horn, driven by an aluminum diaphragm tweeter, is paired with high output woofers featuring glass-fiber-reinforced cast polymer frames and graphite-stiffened, injection-molded, polypropylene cones. All front channel models 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-1 Wide Dispersion Surround Technology™** 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 MAIN SPEAKERS

Both speakers should be placed on the same wall facing the listening area. Space the loudspeakers so they are between six and 15 feet apart. For best results with the bookshelf models, use a high quality rigid stand that places the speaker's horn tweeter at ear level when seated. 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 compensate for 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 the walls and floor. This may, however, degrade soundstage 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 use on shelves or hard surface flooring.

SYNERGY SC-1 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-1 WDST SURROUND SPEAKER

One of the principle advantages of Klipsch's unique Wide Dispersion Surround Technology is greater placement flexibility. Due to their full 180° coverage pattern, the **SS-1s** 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 brackets on the rear of the cabinet. These two brackets are vertically oriented to attach to a pair of screws secured into a wall stud.

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