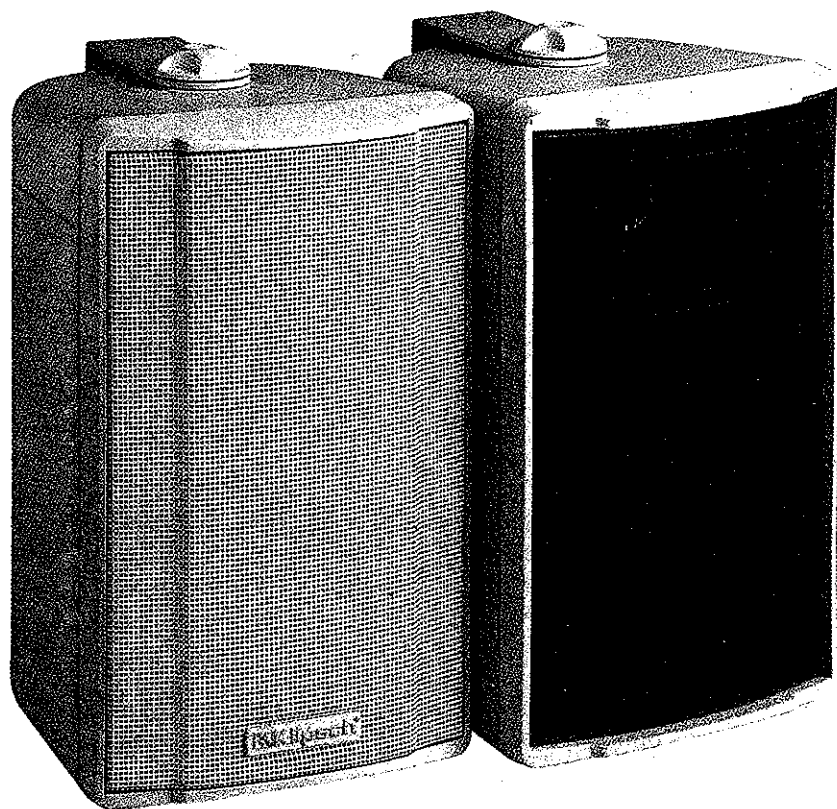


# Klipsch Horizon Series™



**HS 1**

**All-Weather**

**Loudspeaker**

# Owner's Manual

## **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 transportation company responsible for safe delivery. Make a request for inspection 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.

## **Klipsch Horizon Series HS 1 All-weather Speaker**

The HS 1 speaker is a two-way design using a horn-loaded high frequency compression driver, complementing a high performance bass driver for the low frequencies. A breakthrough in horn design, Klipsch engineers developed an all-new Tractrix® Horn with a 90° x 40° coverage pattern for enhanced outdoor performance. This horn is attached to a .5" diameter diaphragm compression driver for clean and efficient reproduction of the high and midrange frequencies.

The HS 1's design provides precise imaging and exceptional detail in the critical vocal ranges. With high efficiency, low distortion, controlled coverage and flat frequency response, the HS 1 delivers the sound Klipsch is famous for. Constructed from UV-resistant, ABS, the cabinet is remarkably durable against the elements and can be painted to match any trim or siding color.

### **PLACEMENT OF THE HS 1**

There are a number of applications where the Klipsch HS 1 is the perfect solution for outdoor sound — patios, decks, swimming pools, porches or any other place where exposure to the elements makes conventional loudspeaker usage unacceptable.

Many of the placement recommendations for indoor use also apply in outdoor applications. The most common difference is the desire or need to mount the speakers above ear level on a wall or under an overhang. To achieve the best performance from your HS 1s, place both speakers on the same wall facing the listening area and space them six to 15 feet apart. For a higher quality stereo image, angle down, or toe in, the speakers toward the primary listening area. This is especially important in installations that place the speakers well above ear level. Some additional bass will result if you place the speakers in a corner or near a wall: This provides greater bass coupling due to the additional reflected energy from the walls.

### **Wall Mounting**

Included with your HS 1 speakers are "C"-style mounting brackets that provide tremendous placement flexibility. Weather-resistant to ensure years of reliable service, these brackets are the recommended method of mounting and supporting your speakers. The bracket is attached to the speaker with the supplied low profile knobs which thread into the top and bottom of the cabinet. This allows the speaker to be angled to the left or right when mounted vertically, or up and down when mounted horizontally.

After determining the desired location and orientation of your HS 1s, remove the bracket from the loudspeaker and use it as a template to mark the location of the mounting holes. Check the alignment of the holes with a torpedo level before drilling the properly sized pilot holes. at the marked locations. Use #10-12, 2 1/2 -3" long pan head screws to attach the bracket into a wall stud. Affix the speaker to the bracket with the supplied knobs. Be sure to leave enough clearance between the end of the bracket and any adjacent wall or ceiling for installation of the knobs.

If a wall stud is not available, use the appropriate type of drywall or masonry anchor to support the weight of the speaker, allowing for a generous safety margin. Please consult your dealer, custom installer or building contractor in these situations.

#### **Use of the Port Plug**

A vinyl port plug is included for installations that may expose the HS 1 to extremely wet weather conditions. The internal components are water-resistant, however, it is best to avoid having standing water inside the cabinet whenever possible. To insert the plug, gently pry off the metal grille taking care not to bend it or chip the paint. Insert the closed end of the plug into the port until the fit is snug. DO NOT use excessive force! Use of the port plug will result in a slight loss in the deep bass frequencies, but will make your speakers more weather-resistant and ensure a long and trouble-free life.



#### **HOW TO CONNECT THE HS 1**

Switch your electronics OFF when making all connections! Connect your HS 1 All-Weather speakers to the "Front" or "Main," left and right channels of your system's power amplifier. Be sure to observe proper polarity (+ to + and - to -) and avoid having excess bare wire at the connectors, which could short together causing possible amplifier damage. Refer to "About Speaker Wire Connections."

#### **ABOUT SPEAKER WIRE CONNECTIONS**

When making any type of speaker wire connection, be sure to observe proper polarity. Most speaker wire 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 wire conductor is connected to the positive or negative connection of your equipment as long as you are consistent. Be sure that the connections from the amp to the speaker on all of the various channels of your system are connected in a like manner. Be careful not to have excess bare wire or loose strands of wire that could short from positive to negative as this could damage the speaker and amplifier.

If one speaker in a stereo pair is out of phase relative to the other (one speaker has the positive and negative terminals reversed), you will hear no center stereo image and a reduction in the amount of bass. To remedy this, check all the connections to make sure both speakers are connected to the amplifier in the same fashion, with positive to positive and negative to negative. High quality speaker cable can make an audible improvement in the sound of your speakers. Your Klipsch dealer can assist you in selecting the proper cable to ensure optimal performance from your loudspeakers.

#### **PAINTING YOUR HS 1**

The grille and cabinet of your HS 1 may be painted to match the exterior of your house or to blend in with the surrounding environment. For best results, properly prepare the surface before painting. Lightly sand all surfaces to be painted (cabinet and grille) with 300-400 grit sand paper. Wash these surfaces with a moistened cloth dipped into a mild detergent to remove any fingerprints or grease. Allow to dry before painting.

Care must be taken to mask off the front of the speaker to protect the tweeter, woofer and front panel from over-spray. This will maintain the existing uniform dark color behind the grille and protect the woofer and tweeter from being damaged by the paint. Affix masking tape to the inboard wall of the grille groove and attach plastic or newspaper to the tape to cover the entire front panel of the speaker. Also before painting, mask the speaker wire binding posts on the rear of the cabinet to preserve their color coding and conductivity. Make sure that the black and red knobs are screwed down to cover the threaded metal shafts and wrap them securely in masking tape.

Remove the grille before painting. For best results, use several light coats of paint instead of one heavy coat. This will help prevent the perforations in the grille from becoming clogged with paint.

# Component Specifications

## HS 1

**Sensitivity:** 91dB @ 1 watt/1 meter

**Bandwidth:** 70 Hz-20 kHz±3 dB (without port plug)

**Nominal Impedance:** 8 ohms

**Crossover Frequency:** 4200 Hz

**Power Handling:** 60 watts maximum continuous  
(240 watts peak)

**Enclosure Type:** Bass reflex via front port

**Drive Components:** Two-way system using one .5" (1.27 cm)

K-102-A neodymium magnet compression driver with  
a 90° x 40° Tractrix Horn and one 4.5" (11.43 cm)

K-1067-A magnetically shielded woofer

**Weight:** 4 lbs. (1.82 kg)

**Height:** 9" (22.9 cm)

**Width:** 5.5" (14 cm)

**Depth:** 6.3" (16 cm)

**Finish:** UV White, paintable (bracket and port plug included)

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