

THIEL

Model **CS1**
Coherent Source™
loudspeaker system

OWNER INFORMATION

Congratulations on your purchase of the THIEL model CS1 loudspeaker system. It is the result of a long and dedicated effort to provide very accurate music reproduction. We have used only the highest quality components and taken great care in its construction. Properly set up and used with good associated equipment, the CS1s will provide you with a great deal of musical enjoyment for many years.

Speaker Placement

The CS1s are relatively non-critical to room placement and will provide good results almost anywhere. However, we recommend they be placed at least one foot from a wall and at least three feet from a corner. They perform best when positioned even farther from all walls, as this minimizes early reflections and room resonances and so provides the most open, uncolored reproduction as well as the most accurate bass response.

The CS1s provide broad dispersion of energy at all frequencies and are designed to provide good results throughout a large listening area. Best imaging is provided for a listener centered in front of the speakers. Optimum phase and time alignment is provided only for a seated listener who is eight or more feet away from the speakers.

Optimum imaging is usually achieved when the speakers and the listener form an equilateral triangle. If the speakers are too far apart for a given environment, there will tend to be a "hole" in the middle of the sound stage; if they are too close together, the image will be compressed and will not achieve optimum width. Also, the speakers should not usually be toed in toward the listener but should be positioned pointing forward, parallel to each other.

Since every listening environment is different, we encourage you to experiment with your speaker placement to obtain the best results.

Connecting the Speakers

The CS1's input terminals are located on the bottom of the speaker. To gain access to these the speaker should be laid on its back.

It is essential for proper performance that both speakers in a stereo system be wired in the same polarity. The input terminals are color coded to facilitate this. The wire connected to the red input terminal of each speaker should connect to the respective positive output terminals of the amplifier. The speakers should be connected to the amplifier with heavy gauge wire to insure minimal loss of power and proper control by the amplifier. If the speakers are being connected to a tube amplifier with various impedance taps, either the 4 ohm or the 8 ohm tap will give good results. Make sure that all connections are *tight*.

Stabilizer Pins

Speakers positioned on a soft surface such as carpeting or an uneven surface are able to rock back and forth slightly and will vibrate in reaction to those forces the speaker generates to move the driver diaphragms. (Every action has an equal and opposite reaction.) This motion of the speaker causes a loss of musical information and reduces the clarity of the music.

In order to eliminate this effect, the THIEL CS1 can be used with stabilizer pins. The stabilizer pins, either of two types, are pushed into three pre-drilled holes in the base of each speaker. The pointed pins are for speakers that will be placed on a carpeted surface. The point penetrates the carpet and allows the speaker to rest firmly on the floor. The rounded stabilizer pins are for speakers that are placed on a hard, uneven surface. The three pins provide a stable foundation which eliminates some obscuring of information and produces a cleaner, more articulate sound.

There are some applications where the stabilizer pins will not bring an improvement in sound but may actually make it worse. This situation occurs when the floor itself is not of

rigid construction and vibrates when connected to the speakers via the stabilizer pins. We encourage you to experiment to determine for yourself whether or not this is the case.

We recommend that you determine the position of your speakers before inserting the pointed stabilizer pins. To insert the pins, tilt the speaker forward and push the two back pins fully into the 1" deep holes located in each back corner of the plinth. Then rock the speaker backward and insert the front pin. Finally, press firmly on the top of the speaker with a slight rocking motion until the pins penetrate the carpet completely. To check that the pins are firmly seated, lightly tap the back and side of the speaker. There should be no movement and the speaker should feel solidly in place.

If the speaker is moved with the pins in place, care should be taken to lift the speakers straight upward until the pins have cleared the carpet. Also, the speaker should be lowered straight down onto the carpet.

Please be cautioned that the pointed pins can be dangerous if not used with care. They can cause small dents in hardwood floors and it is possible to damage carpets if the speakers are moved incorrectly with the pins in place.

Associated Equipment

The CS1 is a very high quality sound reproducer and will benefit from use with the best associated equipment. Since it is extremely accurate, it will reveal sources of distortion generated elsewhere in the system. For example, distortion resulting from cartridge misalignment or inferior electronics will be reproduced accurately. Also, the quality of patch cords and speaker cables will significantly affect the performance of the system.

The Driving Amplifier

The CS1s will usually provide good dynamic range with amplifiers of only moderate power. For normal listening levels in average size rooms, 40 watts will normally provide good results. However, it is important not to attempt a higher volume level than the amplifier is capable of providing as this will result in the amplifier producing overload distortion that could damage the speaker system in extreme cases. If high sound levels are desired, the CS1s are designed to accept large amounts of power and provide wide dynamic range. They will benefit from use with amplifiers rated up to 250 watts per channel.

If the amplifier has a speaker fuse or if a fuse is used in line to the speakers, we recommend a value of 3 amps of the normal blowtype (type 3AG-3 amp). Although fuses offer some protection, they do not necessarily protect the speaker against all types of overload and also introduce audible degradation of the signal. The CS1 is a very rugged loudspeaker that can only be damaged by extreme overloading and fusing is not necessary.

Cabinet Finish Care

The cabinets possess a high quality lacquer finish which is both beautiful and durable. However, any wood finish can be damaged by excessive moisture, dryness, or direct sunlight. When cleaning your speakers, avoid using oils, waxes, or polishes which contain silicone, such as Pledge or Johnson's. We recommend using Endust. The grilles can be cleaned of dust by using an upholstery attachment of a vacuum cleaner.

Service

If your system requires service, contact your dealer who is qualified to service THIEL products.

Grille

The grille on the CS1 is designed as an integral part of the system to reduce unwanted diffraction effects. Therefore, it must remain in place for proper operation. To prevent vibration, it is held firmly to the cabinet by two adhesive strips. If you wish to temporarily remove it, first loosen the two screws which secure the trim strip to the front of the speaker. Then pull the grille frame away from the speaker. When replacing the grille, be sure to push it firmly to the front of the speaker to readhere the adhesive.

WARRANTY

Automatic 90 Day Limited Warranty

THIEL Audio warrants every THIEL model CS1 system against defects in materials and workmanship to the original owner for a period of 90 days from the date of purchase. We will, at no charge, replace any defective part and make any repairs necessary to ensure its proper performance when the defective unit is returned to us postpaid. This warranty does not cover accident or abuse and is void if the unit has been tampered with.

This 90 day coverage is automatic and no registration is required. This warranty gives you specific legal rights. You may also have other rights which are particular to your state.

Optional Extended 10 Year Limited Warranty

An optional extended 10 year limited warranty, effective from the date of purchase, is available for the CS1 system when it is purchased from an authorized THIEL dealer. This extended coverage is free of charge and granted upon our receipt of the completed Warranty Registration Card within 30 days of the purchase date.

The terms and conditions of this optional extended limited warranty are the same as those stated in the 90 day limited warranty.

The following information is for your records.

Serial Numbers _____

Purchase Date _____

Purchased From _____

THIEL Audio Products Company
1042 Nandino Boulevard
Lexington, Kentucky 40511