

THIEL

Model **CS 3**
Coherent Source™
loudspeaker system

OWNER INFORMATION

Congratulations on your purchase of the THIEL model CS3 loudspeaker system. It is the result of a long and dedicated effort to provide the most accurate music reproduction possible. 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 CS3's will provide you with a great deal of musical enjoyment for many years.

Speaker Placement

The CS3's 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 CS3's 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 CS3 is provided with two sets of input terminals which are located on the bottom of the speaker. One set powers the low and mid frequency drivers and the other set powers the high frequency driver. To gain access to these the speaker should be laid on its back. The speaker is supplied with shorting straps connecting the two black terminals and the two red terminals together. For normal operation, these shorting straps must remain in place and connections can be made to either set (one red and one black.)

If you desire to bi-wire the speaker, that is, to connect two pairs of wires from the amplifier, remove the shorting straps and connect one pair of wires to the high frequency input terminals and the other pair of wires to the low/mid frequency input terminals.

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, the 4 ohm tap should be used. Make sure that all connections are *tight*.

Connecting the Equalizer

The preferred method of installing the equalizer is to connect it between the preamplifier and the power amplifier. To implement this:

- connect a set of patch cords for the preamplifier output to the equalizer input;
- connect another set of patch cords from the output of the equalizer to the input of the power amplifier.

Another method of connecting the equalizer is through the tape monitor facilities of the amplifier or receiver. To implement this:

- connect a set of patch cords from jacks on the amplifier labeled "tape out" to the input jacks of the equalizer
- connect another set of patch cords from the output of the equalizer to jacks on the amplifier labeled "tape in"
- turn the tape monitor switch to "on" or "tape".

If the tape monitor switch is not turned on, the equalizer will not function as a part of the system even if it is correctly wired.

Since the equalizer requires a very small amount of power, we recommend that it be left on continuously by plugging it into a wall outlet or an unswitched outlet on the preamplifier. If the equalizer is powered from a switched outlet on the preamplifier, the preamplifier should be switched on before the power amplifier to avoid pops.

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. 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 model CS3 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 be connected directly to 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.

Due to the difficulty of moving the speaker with pointed pins on carpet, we recommend that you determine the position of your speakers before inserting the pointed stabilizer pins and remove the pins before repositioning the speakers.

To insert the pins, tilt the speaker forward and push the two back pins fully into the 1" deep holes. Then rock the speaker backward and insert the front pin. It is desirable to do this with two people. If you have difficulty seating the pins, you may push them with a wood block. Finally, press firmly on the top of the speaker 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 solid.

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 with the pins in place.

Associated Equipment

The CS3 is a very high quality sound reproducer and therefore will benefit from use with the very 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 CS3's are efficient and will provide good dynamic range with amplifiers of only moderate power. For normal listening levels in average size rooms, 40 watts will usually 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 CS3's 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 blow type (type 3AG-3 amp). Although fuses offer some protection, they do not necessarily protect the speaker against all types of overload and also can introduce audible degradation of the signal. The CS3 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 that is both beautiful and durable. However, any wood finish can be damaged by excessive moisture, dryness, or direct sunlight. The finish can be cleaned and renewed with any high quality furniture polish.

Service

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

Removing the Grille

In order to remove the grille, first unmount the trim strip by removing the 2 screws that secure it to the front of the speaker cabinet. Unfasten the grille frame by pulling the bottom forward about one inch. Then lift it upwards to unfasten it from the cabinet.

WARRANTY

Automatic 90 Day Limited Warranty

THIEL Audio warrants every THIEL model CS3 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 warranty is contingent upon purchase from an authorized dealer and must be effected through an authorized THIEL dealer. 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 CS3 system. This extended coverage is free of charge and granted upon our receipt of the completed Extended Warranty Registration Card within 15 days of the purchase date.

The terms and conditions of this optional extended 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