The model and serial number of this product may be found on the back of the unit.
You should note the model and serial number of this unit in the space provided and retain this booklet as a permanent record of your purchase to aid identification in the event of theft.

MODEL NUMBER

SERIAL NUMBER

Before operating this speaker system, please read these instructions completely.
Thank you for selecting the Technics Linear Phase Speaker System SB-L300. To obtain maximum satisfaction from all of its many features as well as the longest possible service, be sure to first read these instructions carefully.

No matter how complex musical waveforms may be, all are composed of frequency components with their own amplitude and phase. In order to faithfully reproduce such musical waveforms, not only must the amplitude (sound pressure)/frequency response be flat, the phase/frequency response must also be linear. At Technics we have, by using BBD (Bucket-Brigade Device) technology, succeeded in developing our own unique phase-measurement system. As a result of long and deep research into the phase characteristics of speaker systems, and by developing wide-range, high-performance speaker units and arranging them in the ideal position, and furthermore by designing a new crossover network, we were able to successfully produce a true linear-phase speaker system.

INSTALLATION OF YOUR SPEAKER SYSTEM

The sound reproduced by a speaker system is easily influenced by such factors as room acoustics and the place where it is placed in the room. Before finally deciding upon the place where the speaker systems are to be placed, please carefully read the following information.

- In general, if a speaker system is placed on the floor, near a corner or near a wall, the level of the bass sound will be increased by the reflections of the sounds from the wall and floor. Consequently, it is possible to adjust the bass sound to some extent by changing the distance between the speaker systems and the wall and/or floor. Determine the location of the speaker systems which gives the best sound reproduction, therefore, depending upon the actual conditions of the room in which they are to be used.
- If the speaker system faces toward a hard wall or a glass door or window, it is recommended that curtains or similar material be used in order to prevent undesirable resonance and sound reflection, especially of the treble sound.
- Vibrations from the speaker systems may be transmitted to a record player, causing acoustic feedback ("howling"). For best results, the speaker systems should not be placed near the record player, and should never be placed on the same table or shelf as the record player. It is often very effective, in order to prevent "howling", to place a thick piece of felt beneath the speaker systems and the record player.

CONNECTING THE SPEAKER SYSTEM

- Be sure to turn off the power of the amplifier before connecting the speaker systems to it.
- The impedance of this speaker system is 8 ohms. Be sure that the load impedance of the amplifier to be used is 4 ~ 16 ohms.
- The input terminals of this unit are on the rear surface of the enclosure. The polarity (+ and -) of each input terminal is indicated. When connecting speaker wires from the amplifier, be sure that the left and right connections and the plus and minus connections are made correctly.

When speaker connection wires are connected to the "system input" terminals, make the connections as shown in figure 1a.

1. Strip about 10mm (1/2") of the insulation from the wire, and then twist the core...
2. Loosen the terminal knob by turning it counterclockwise 2 or 3 times. Insert the wire into the hole on the knob until the core cannot be seen.
3. Tighten it by turning it clockwise.

If thick wire is used, make the connection as shown in figure 1b.

1. Strip about 20mm (1") of the insulation from the wire, and then twist the core.
2. Remove the terminal knob by turning it counterclockwise. Insert the core wire through one of the notches on the terminal base, pass it clockwise around the screw, and out from the other notch.
3. Put the terminal knob back on the screw, and tighten it by turning it clockwise.

Be sure that the core wires don’t touch each other.

POWER-HANDELING CAPACITY

The power-handling capacity of this unit is indicated in the specifications, and is determined according to the temperature increase of the voice coils.

- If the amplifier to be used has an output power which exceeds the power-handling capacity of this unit, be sure that the amplifier’s volume control is set so that excessive input is not applied to the speaker system.
- Even if the amplifier to be used has an output power which is less than the power-handling capacity of this unit, the output of the amplifier will become distorted and excessive input will be applied to the speaker units, especially for the middle and high frequencies. If the input signals to the amplifier are too large or the amplifier volume level is too high. Also note that higher-than-normal power is applied to the speaker systems if the tone controls of an amplifier or a frequency equalizer are used to raise the level of bass and/or treble sounds. When adjusting the volume level, therefore, do so with great care: confirming that amplifier output is not distorted.

- The power-handling capacity of this unit is set for reproduction of ordinary music. If an oscillator or test record is used to produce a continuous signal such as a sine wave, etc., a signal exceeding 5 watts must never be applied. Usually 1 watt of sine wave is enough to test a speaker system using an oscillator or test record.
- If the following special types of signals are applied to the speaker system, be sure to reduce the volume level of the amplifier.

1. Interstation hiss on the FM broadcast band.
2. Output from a tape deck during fast forward or rewind.
3. Acoustic feedback from a microphone or an electric musical instrument.
4. "Shock" noise which occurs when input or output connection cords are connected or disconnected or when a phono cartridge is replaced.
SPEAKER-PROTECTION CIRCUITRY
This unit includes built-in speaker-protection circuitry to protect the speakers from damage by excessive input or an abnormal signal.

- This unit is designed so that the protection circuitry will automatically function if excessive input or an abnormal signal is applied to the speaker system, thus cutting off the input to the speakers.
- To operate the speaker protection circuitry, please note the following instructions:
  1. Before making connection to the amplifier, be sure to push the reset buttons on the rear of the speaker system.
  2. If sounds from the speaker system are interrupted or changed suddenly while using your speaker system:
     1. Reduce the amplifier volume.
     2. Check to be sure all equipment in your reproduction system is functioning properly.
     3. Wait for about 20 seconds.
     4. Push the reset buttons.
     5. After resetting the protection circuitry, reduce the amplifier volume to a level lower than before to prevent the speaker-protection circuitry from functioning again.

LEVEL CONTROLS
This speaker system includes level controls which can be used for continuous adjustment of the level of the mid-range and tweeter sound depending upon the room acoustics, the sound source, and the characteristics of the phono cartridge and the amplifier which are used with this speaker system, as well as your own preference. The standard setting of the level controls is the “normal” position.

NOTES
- Although the enclosure and the speaker units of this speaker system are made of carefully selected material and have been produced by the finest manufacturing techniques, sudden changes in surrounding temperatures and/or humidity should be avoided. Keep this unit away from sources of heat, high humidity and direct sunlight.
- The speaker system should not be placed near a TV, because the magnet may cause a disturbance in the TV picture.
- If the enclosure becomes dirty, use a soft, dry cloth to wipe it clean. If the dirt is excessive, soak a soft cloth in a weak solution of soap and water, wring it thoroughly, and then clean the enclosure. A soft dry cloth should then be used to wipe it dry.
- Never use alcohol, paint thinner, benzine nor other volatile chemicals to clean this unit because they may damage the finish, causing it to lose its luster. Also never use a wet cloth or a chemically-impregnated cloth.

SPECIFICATIONS
Type: 3-way 3-speaker system
Speakers: 
- Woofer: 30 cm (12”), cone type
- Midrange: 10 cm (4”), cone type
- Tweeter: horn type
Impedance: 8 ohms
Power Handling Capacity: 
- 130 W, Music
- 90 W, DIN
Output Sound Pressure Level: 90 dB/W (1.0 m)
Crossover Frequency: 1.600 Hz, 4.500 Hz
Frequency Range: 39Hz ~ 22 kHz (~10 dB)
Dimensions: 36.5(W) × 72.0(H) × 31.7(D) cm
Weight: 18.0 kg (40.0 lbs)