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NATURAL SOUND SPEAKER SYSTEM

NS-1000 NS-1000 MONITOR OWNER'S MANUAL



We wish to thank you for your purchase of the Yamaha NS-1000/NS-1000M speaker.

With this latest addition to the Natural Sound series, Yamaha has created the finest bookshelf-type speaker system available today, and has made a major contribution to the art of music reproduction.

Before attempting to operate the NS-1000/NS-1000M, please read this owner's manual carefully, to avoid any errors which could result in irreparable damage.

If the NS-1000/NS-1000M speaker is used with an amplifier whose power capacity is greater than that of the speaker's (max. input: 100W, Continuous: 50W), be careful not to exceed the speaker's capacity. When the amplifier volume is set at the middle position, the output will register 70% of the maximum input. After long periods of use at continuous input, the attenuator knob may become warmer. This will in no way affect speaker performance.

The "NORMAL" position of the attenuator level has been chosen as the result of various factors, including tests in anechoic chambers, power-handling characteristics and hearing tests in listening rooms. However, you may adjust the position according to your own preferences and to the particular acoustic conditions of your room.

Do not touch the beryllium diaphragms on the mid-range or tweeter, nor cause them to be affected by any sharp movement.

IMPORTANT !

Please record the serial number of your unit in the space below

Model Name

Serial No. _____

The serial number is located on the rear of the cabinet.

Retain this Owner's Manual in a safe place for future reference.

Connecting the Amplifier

Connect the input terminal on the rear of the speaker to the output terminal on the amplifier with the speaker cord which is included. Make sure the amplifier is turned off.

Connection

The input terminal on the speaker is a push-type terminal (refer to the diagram).

The red terminal is plus, the black terminal is minus. The lever below each terminal should be pushed, the proper cord inserted, and the lever released. This will lock the cord in place.



Connect the left speaker to the left (L) amplifier terminal, and the right speaker to the right (R) terminal. The connector cords must be connected the same way for both left and right speakers. One side of the speaker cord is silver-colored. Use this side as the plus and the other side as the minus. If you mistake the polarity, an out-of-phase signal will be produced, seriously affecting stereo performance and bass response.

Impedance

The impedance of the NS-1000/NS-1000M is 8Ω. If a transistor amplifier is used, the speakers can be connected without giving any consideration to impedance. If a tube-type amplifier is used, however, the speakers should be connected only to 8Ω output terminals.

Speaker Placement

If the speakers are placed directly on a carpet or rug, there is a danger of distortion of the bass tones. Place them on a solid base or shelf, or on the floor with blocks under them.

The best location is one in which the speakers are placed with their backs against a hard wall. If the facing wall is hard, or has large windows, a better effect will be obtained by covering it with a curtain.

The speakers can be placed upright or lying down. The center of the speaker should be level with your ears when in the listening position.

Be careful not to place the speakers too close to, facing, or on the same shelf with your turntable; this can cause hum.

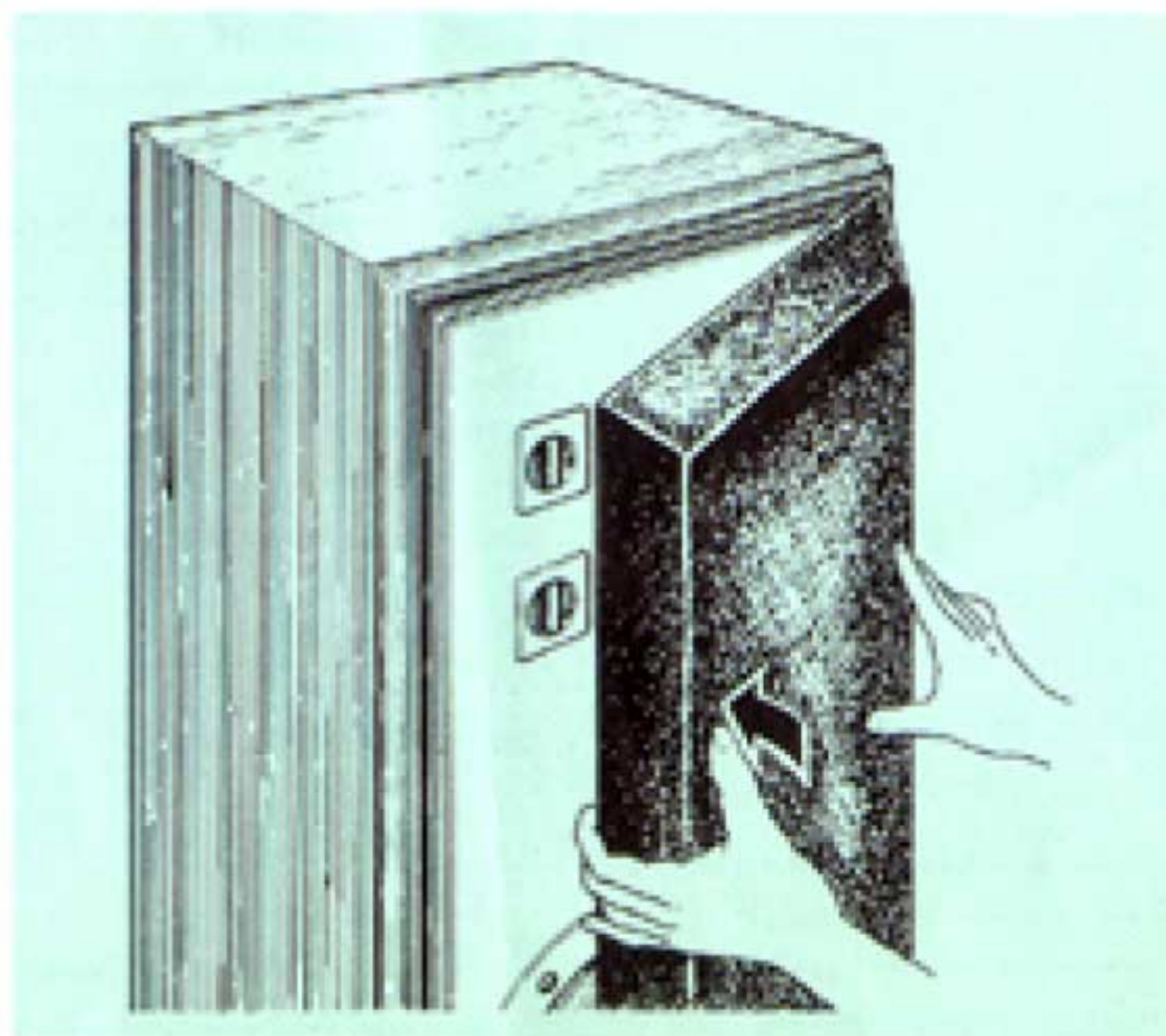
Avoid locations exposed to direct sunlight, heat, dust or excessive dampness.

Grille Assembly (NS-1000)

The grille is packed in the bottom of the speaker carton for shipment.

To install the grille, first press one side against the front baffle as shown in the illustration, then press the other side into place.

Note: Be careful not to press too hard when installing the grille; excessive force can bend the grille frame.



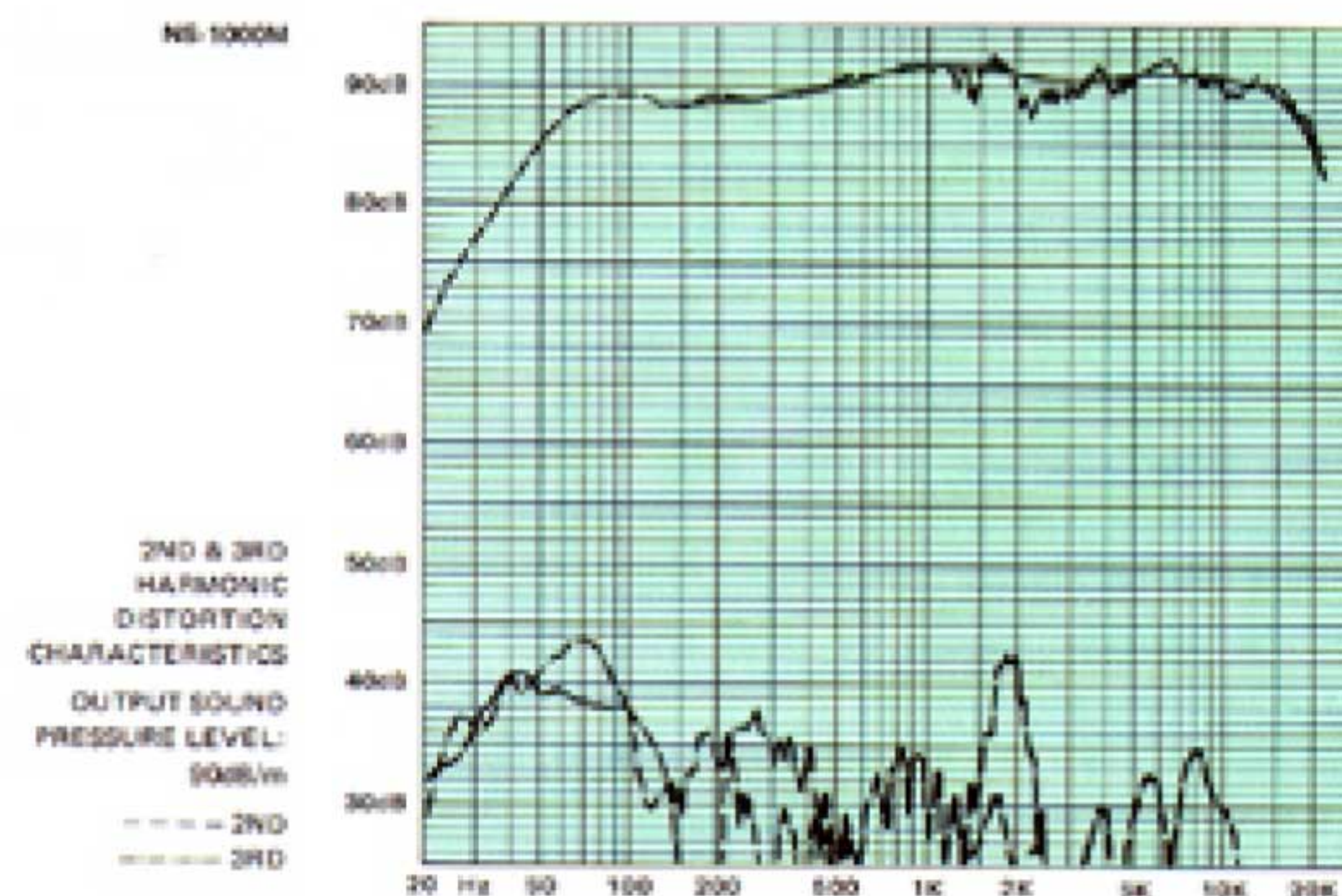
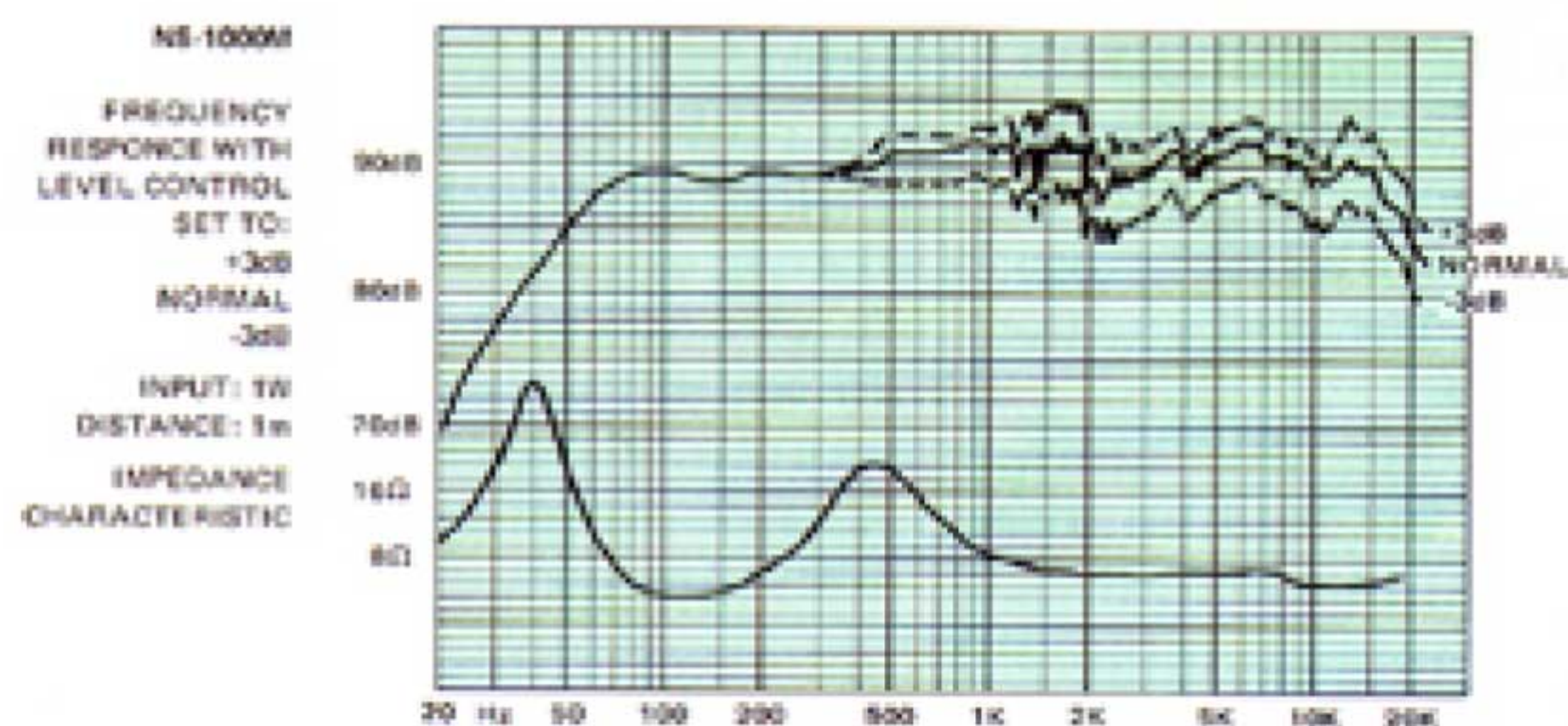
Grille Removal (NS-1000)

To protect against vibrations of the grille frame when the speakers are used, the grille frame fits quite tightly into its groove on the speaker front baffle.

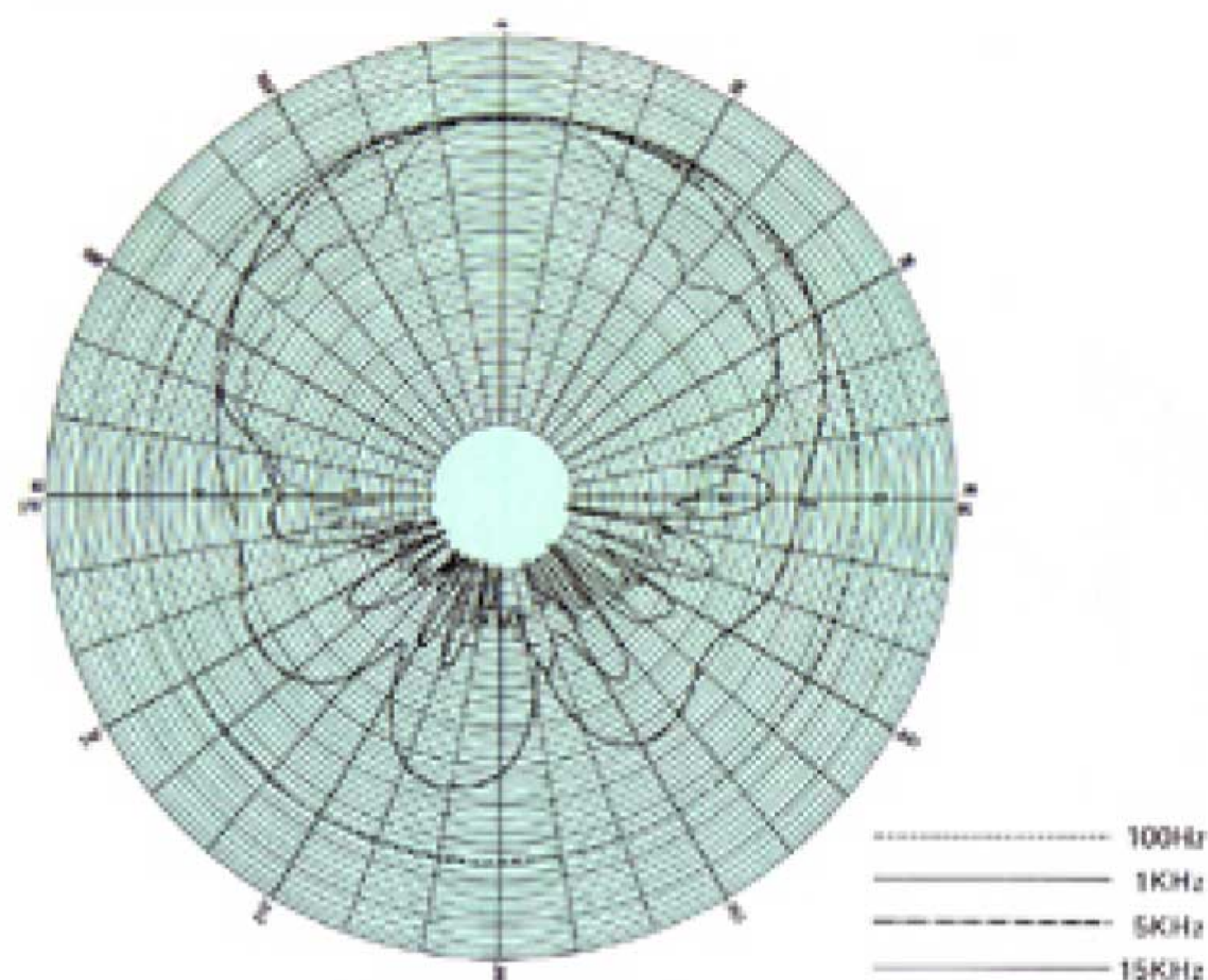
To remove the grille, hook your fingers into the protruding part of the frame, then pull down and out at the same time to loosen the top edge.

Be careful not to tear or stretch the grille cloth when removing the grille.





Directional Characteristics



Specifications

Type	Infinite baffle, 3-way system
Impedance	8Ω
Fundamental Resonance Frequency	40 Hz
Frequency Response	40 – 20,000 Hz
Standard Input	50W
Maximum Input Capacity	100W
Efficiency	90dB (1m 1Watt Input)
Crossover Frequency	500 Hz, 6,000 Hz
Speaker Complement	
Woofer	30cm cone type (JA-3058I)/NS-1000M: (JA-3058A)
Squawker	8.8cm dome type (JA-0801)
Tweeter	3cm dome type (JA-0513)
Dimensions (H x W x D)	NS-1000: 710 x 395 x 369 mm (28 x 15-1/2 x 14-1/2")
	NS-1000M: 675 x 375 x 326 mm (26-1/2 x 14-3/4 x 12-3/4")
Weight	NS-1000: 39kg (85.8 lbs.)
	NS-1000M: 31 kg (68.2 lbs.)