

**NS-A CONCERT
SERIES
OWNER'S MANUAL**

**3-WAY ACOUSTIC
SUSPENSION
SPEAKER SYSTEM**

YAMAHA®

CONGRATULATIONS ON YOUR SELECTION OF THE CONCERT SERIES LOUDSPEAKER

This Yamaha speaker represents a new level of refinement in the field of speaker design. Yamaha, as the world's largest manufacturer of musical instruments, appreciates the sound of a live performance. This unique musical heritage is embodied in all Yamaha Natural Sound Systems. Regardless of price range, Yamaha equipment is built to uncompromising standards.

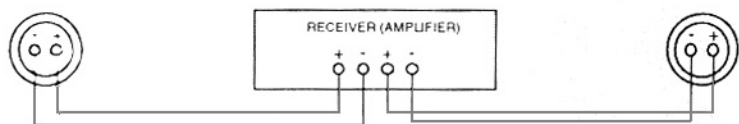
The Amplifier

To assure low distortion on program peaks, the amplifier or receiver should be capable of delivering at least 10 watts (continuous sine-wave power) per channel. This speaker can be used safely with amplifiers rated at up to the maximum wattage shown in the specifications table.

Amplifiers rated at higher than the recommended maximum power per channel may be used with care. Program material is not a continuous sine-wave input, and even with a 100 watt amplifier, average levels will remain somewhere between 1/10-watt and 10 watts. If you do use a large amplifier, be careful never to change input sources before reducing the volume level to prevent transients from damaging your speaker.

The Connections

For most installations, standard 2-conductor wire as supplied is fine. Yamaha recommends the use of heavier gauge wire for longer distances: at least 18-ga. up to 25 feet, and 16-ga. up to 100 feet. Longer wire is available from your audio dealer or hardware store. Best results are obtained by connecting the speaker to the terminals of the receiver (or amplifier), making certain that each pair of speakers is "in phase." The easiest way to properly phase the speakers is to connect the black (-) terminal on the rear of the left and right speakers to the amplifier's corresponding ground (-) terminals using the darker colored wire. Then connect the red (+) terminals of each speaker to the corresponding terminals of the amplifier (+) using the lighter colored wire.



PLEASE NOTE THE (+) SPEAKER WIRE IS LIGHTER COLORED AND
THE (-) SPEAKER WIRE IS DARKER COLORED

Speaker Placement

This speaker is a wide dispersion design and it performs well in almost any location. Preferably, the speaker should be placed on a sturdy, vibration-free surface. For stereo listening, the speakers should be placed approximately 6 to 8 feet apart.

Consumer Precautions

1. Lower the power amplifier volume control before changing input sources. Never change input sources (for example, FM to CD) at high listening levels. Always turn the unit off when installing or removing input cables.
2. Anytime you note distortion, reduce the volume control on your power amplifier to a lower setting. Never allow your power amplifier to be driven into "clipping".
3. Damage can occur when a tone arm is accidentally dropped onto a record when the power amplifier volume control is turned up. A very sharp, high power transient sound is created which can damage your speaker system. In order to avoid this, always turn the volume to minimum before "cueing" (raising or lowering the tone arm) a record on your turntable.

Specifications

Model	NS-A855	NS-A2835	NS-A3500A
Type	3-way acoustic suspension, magnetically-shielded	3-way acoustic suspension, magnetically-shielded	3-way acoustic suspension, magnetically-shielded
Woofers	10" x 1 Polypropylene Foam surround	8" x 2 Polypropylene Foam surround	8" x 2 Polypropylene Foam surround
Mid-Range	4" x 1 Polypropylene Cloth surround	4" x 1 Polypropylene Cloth surround	4" x 1 Polypropylene Cloth surround
Tweeter	1 inch, ferro fluid cooled, dome type	1 inch, ferro fluid cooled, dome type	1 inch, ferro fluid cooled, dome type
Frequency Response	55 Hz to 20 kHz (±3.5 dB)	50 Hz to 20 kHz (± 3.5 dB)	50 Hz to 20kHz (± 3.5 dB)
Crossover Frequency	6.0 kHz, 13 kHz, (6 dB/octave)	4.2 kHz, 9.1 kHz, (6 dB/octave)	4.2 kHz, 9.1 kHz, (6dB/octave)
Recommended Amplifier Power	Minimum, 10 Watts; Maximum, 160 Watts	Minimum, 10 Watts; Maximum, 160 Watts	Minimum, 10 Watts; Maximum, 160 Watts
Sensitivity	92 dB / W / m	92 dB / W / m	92 dB / W / m
Nominal Impedance	8 ohms	8 ohms	8 ohms

Specifications subject to change without notice due to product improvements.

YAMAHA products are designed and manufactured to provide a high level of trouble-free performance. YAMAHA Electronics Corporation, USA, is proud of the experienced craftsmanship that goes into each and every YAMAHA product. YAMAHA sells its products through a network of high quality, specially authorized dealers and is pleased to offer the following Limited Warranty, which applies only to products purchased from our authorized dealers. YAMAHA products are backed by a nationwide network of high quality YAMAHA authorized Service Centers, providing prompt, courteous, and professional service. We suggest that you read the Limited Warranty thoroughly, and invite you to contact your authorized YAMAHA dealer or the YAMAHA Electronics Corporation, USA, Service Department if you have any questions.

YAMAHA

LIMITED WARRANTY

CONCERT SERIES LOUDSPEAKER PRODUCTS

Duration of Warranty: Concert Series Loudspeaker Systems are covered by this warranty for a period of two (2) years beginning from the date of first consumer purchase.

Whats is Covered and What is Not Covered?

This warranty covers all defects in materials or workmanship in this product, but DOES NOT COVER the following:

- (1) Damage, deterioration or malfunction resulting from:
 - a. Accident, negligence, misuse, abuse, improper installation or operation or failure to follow instructions contained in your Owner's manual.
 - b. Any shipment of the product. (Claims must be presented to the carrier.)
 - c. Repair or attempted repair by anyone other than Yamaha or an authorized *Preferred Customer Service Center*.
- (2) Any unit which has been altered or on which the serial number has been detached, modified or removed.
- (3) Normal wear and any periodic maintenance.
- (4) Any unit which has not been purchased from an authorized YAMAHA dealer in the U.S.A. If you are uncertain as to whether a dealer has been authorized by YAMAHA, please contact YAMAHA's Service Department.
- (5) Any unit used for industrial or commercial purposes.

Who may enforce the warranty:

This warranty is enforceable only by the original purchaser.

What we will pay for and what you must pay for:

YAMAHA will repair or replace units covered by this warranty, without charge to the consumer for labor or materials. YOU ARE RESPONSIBLE FOR ANY INSTALLATION OR REMOVAL CHARGES AND FOR ANY INITIAL SHIPPING CHARGES, if the Components must be shipped for warranty service. However, we will pay the return shipping charges to any destination within the U.S.A. if the repairs are covered by the warranty.

How you can get Warranty Service:

- (1) YAMAHA Concert Series Loudspeaker Systems requiring service must be delivered to any authorized YAMAHA Service Center for Home Audio Products within the fifty states of the U.S.A., the District of Columbia or Puerto Rico. Warranty service is not available at any other location outside the U.S.A.
- (2) Units shipped for service should be packed securely and must be accompanied by a detailed explanation of the problem(s) requiring service and Bill of Sale as proof of Warranty coverage.
- (3) Warranty registration is not required for Warranty coverage.

Limitation of Implied Warranties:

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

Exclusion of Damages

YAMAHA'S LIABILITY, FOR ANY DEFECTIVE PRODUCT, IS LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT, AT OUR OPTION. YAMAHA SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OR DAMAGES OF ANY OTHER KIND OR CHARACTER BECAUSE OF PRODUCT DEFECTS.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

For the nearest authorized YAMAHA *Preferred Customer Service Center*, please call: **1-800-4YAMAHA**

Should you have any questions about service received or if, you need assistance in locating an authorized Yamaha Service Center, please contact:

YAMAHA
SERVICE DEPARTMENT

YAMAHA ELECTRONICS CORPORATION, USA

6660 ORANGETHORPE AVENUE, BUENA PARK, CALIFORNIA 90620 • MAIL ADDRESS: P.O. BOX 9560, BUENA PARK, CA 90622

YAMAHA products are backed by a nationwide network of high quality YAMAHA authorized Service Centers, providing prompt, courteous and professional service.

DEAR CUSTOMER:

PLEASE FILL IN THE BELOW INFORMATION AND KEEP IT FOR YOUR RECORDS. SHOULD YOUR SPEAKER REQUIRE WARRANTY SERVICE, YOU WILL NEED A COPY OF YOUR DATED BILL OF SALE. KEEP YOUR BILL OF SALE AND THIS BOOKLET IN A SAFE PLACE. WARRANTY SERVICE FOR ALL YAMAHA HOME AUDIO PRODUCTS MAY BE OBTAINED FROM ANY AUTHORIZED YAMAHA PREFERRED CUSTOMER SERVICE CENTER IN THE UNITED STATES. IF YOU NEED ASSISTANCE IN OBTAINING SERVICE, PLEASE CONTACT YAMAHA ELECTRONICS CORPORATION SERVICE DEPARTMENT.

© 1996 by YAMAHA ELECTRONICS CORPORATION, USA

FOR YOUR OWN PROTECTION, PLEASE WRITE IN BELOW:

MODEL NO.	SERIAL NO.	PURCHASE DATE

PRINTED IN CANADA