# NAD C375BEE Stereo Integrated Amplifier



Owner's Manual

#### IMPORTANT SAFETY INSTRUCTIONS

# SAVE THESE INSTRUCTIONS FOR LATER USE. FOLLOW ALL WARNINGS AND INSTRUCTIONS MARKED ON THE AUDIO EQUIPMENT.

- Read instructions All the safety and operating instructions should be read before the product is operated.
- 2 Retain instructions The safety and operating instructions should be retained for future reference.
- 3 Heed Warnings All warnings on the product and in the operating instructions should be adhered to.
- 4 Follow Instructions All operating and use instructions should be followed
- 5 Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6 Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7 Water and Moisture Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8 Accessories Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

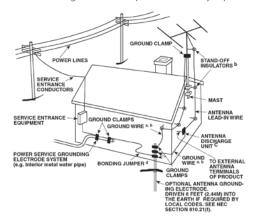
A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

- 10 Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- **11 Power Sources** This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
  - The primary method of isolating the amplifier from the mains supply is to disconnect the mains plug. Ensure that the mains plug remains accessible at all times. Unplug the AC power cord from the AC outlet if the unit will not be used for several months or more.
- 12 Grounding or Polarization This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 13 Power Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14 Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

#### **NOTE TO CATV SYSTEM INSTALLER**

This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



- 15 Lightning For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- 16 Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 17 Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 18 Object and Liquid Entry Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

WARNING: THE APPARATUS SHOULD NOT BE EXPOSED TO DRIPPING OR SPLASHING, AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THE APPARATUS. AS WITH ANY ELECTRONIC PRODUCTS, USE CARE NOT TO SPILL LIQUIDS INTO ANY PART OF THE SYSTEM. LIQUIDS CAN CAUSE A FAILURE AND/OR A FIRE HAZARD.

#### IMPORTANT SAFETY INSTRUCTIONS

- 19 Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a) When the power-supply cord or plug is damaged.
  - **b)** If liquid has been spilled, or objects have fallen into the product.
  - c) If the product has been exposed to rain or water.
  - **d)** If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
  - e) If the product has been dropped or damaged in any way.
  - **f)** when the product exhibits a distinct change in performance-this indicates a need for service.
- 20 Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 21 Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- **22 Wall or Ceiling Mounting** The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 23 Heat The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

#### WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

#### CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

#### FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

#### **FCC WARNING**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### **INDUSTRY CANADA REQUIREMENT**

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAYBE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.



The equipment draws its nominal non-operational power from the AC outlet with its POWER switch in the STANDBY position.

The socket-outlet shall be installed near the apparatus and shall be easily accessible.

#### **CAUTION**

Changes or modifications to this equipment not expressly approved by NAD Electronics for compliance could void the user's authority to operate this equipment.

#### **CAUTION REGARDING PLACEMENT**

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) that is equal to or greater than shown below.

Left and Right Panels: 10 cm

Rear Panel: 10 cm

Top Panel: 50 cm

#### IMPORTANT SAFETY INSTRUCTIONS

#### IMPORTANT INFORMATION FOR UK CUSTOMERS

**DO NOT** cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer. If, nonetheless, the mains plug is cut off, REMOVE THE FUSE and dispose of the PLUG immediately, to avoid possible shock hazard by inadvertent connection to the mains supply. If this product is not provided with a mains plug, or one has to be fitted, then follow the instructions given below:

#### **IMPORTANT**

**DO NOT** make any connection to the larger terminal which is marked with the letter 'E' or by the safety earth symbol or colored GREEN or GREEN AND YELLOW.

The wires in the mains lead on this product are colored in accordance with the following code:

BLUE - NEUTRAL

BROWN - LIVE

As these colors may not correspond with the colored markings identifying the terminals in your plug, proceed as follows:

The BLUE wire must be connected to the terminal marked with the letter 'N' or colored BLACK.

The BROWN wire must be connected to the terminal marked with the letter 'L' or colored RED.

When replacing the fuse, only a correctly rated and approved type should be used, and be sure to re-fit the fuse cover.

#### IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN.

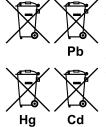
#### NOTES ON ENVIRONMENTAL PROTECTION



At the end of its useful life, this product must not be disposed of with regular household waste but must be returned to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, user's manual and packaging, point this out.

The materials can be reused in accordance with their markings. Through re-use, recycling of raw materials or other forms of recycling of old products, you are making an important contribution to the protection of our environment. Your local administrative office can advise you of the responsible waste disposal point.

# INFORMATION ABOUT COLLECTION AND DISPOSAL OF WASTE BATTERIES (DIRECTIVE 2006/66/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF EUROPEAN UNION) (FOR EUROPEAN CUSTOMERS ONLY)



Batteries bearing any of these symbols indicate that they should be treated as "separate collection" and not as municipal waste. It is encouraged that necessary measures are implemented to maximize the separate collection of waste batteries and to minimize the disposal of batteries as mixed municipal waste.

End-users are exhorted not to dispose waste batteries as unsorted municipal waste. In order

to achieve a high level of recycling waste batteries, discard waste batteries separately and properly through an accessible collection point in your vicinity. For more information about collection and recycling of waste batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

By ensuring compliance and conformance to proper disposal of waste batteries, potential hazardous effects on human health is prevented and the negative impact of batteries and waste batteries on the environment is minimized, thus contributing to the protection, preservation and quality improvement of the environment.

NOTE: THE C 375BEE IS NOT AN AUTO VOLTAGE UNIT. CONNECT ONLY TO THE PRESCRIBED AC OUTLET, I.E., 120V 60HZ OR 230V 50HZ.

#### RECORD YOUR MODEL NUMBER (NOW, WHILE YOU CAN SEE IT)

The model and serial number of your new C 375BEE are located on the back of the cabinet. For your future convenience, we suggest that you record these numbers here:

Model no:	 					 		 									
Serial no.:	 					 		 									

#### **GETTING STARTED**

#### **UNPACKING AND SETUP**

#### WHAT'S IN THE BOX

Packed with your C 375BEE you will find:

- The SR 8 remote control with 2 (two) AA batteries
- This owner's manual
- A detachable AC power cord.

#### **SAVE THE PACKAGING**

Please save the box and all of the packaging in which your C 375BEE arrived. Should you move or otherwise need to transport your C 375BEE, this is by far the safest container in which to do so. We've seen too many otherwise perfect components damaged in transit for lack of a proper shipping carton, so please: Save that box!

#### **CHOOSING A LOCATION**

Choose a location that is well ventilated (with at least several inches to both sides and behind), and that will provide a clear line of sight, within 23 feet/7 meters, between the C 375BEE's front panel and your primary listening/viewing position. This will ensure reliable infrared remote control communications. The C 375BEE generates a modest amount of heat, but nothing that should trouble adjacent components. It is perfectly possible to stack the C 375BEE atop other components, but the reverse usually should be avoided.

It is especially important that sufficient ventilation be provided. If you are contemplating locating the C 375BEE within a cabinet or other furniture, consult your NAD audio/video specialist for advice on providing adequate airflow.

#### **NOTES ON INSTALLATION**

Your NAD C 375BEE should be placed on a firm, level surface. Avoid placing the unit in direct sunlight or near sources of heat and damp. Allow adequate ventilation. Do not place the unit on a soft surface like a carpet. Do not place it in an enclosed position such a bookcase or cabinet that may impede the air-flow through the ventilation slots. Make sure the unit is switched off before making any connections.

The RCA sockets on your NAD C 375BEE are colour coded for convenience. Red and white are Right and Left audio respectively.

Use high quality leads and sockets for optimum performance and reliability. Ensure that leads and sockets are not damaged in any way and all sockets are firmly pushed home.

For best performance, use quality speaker leads of 16 gauge (1.5mm) thickness or more. If the unit is not going to be used for some time, disconnect the plug from the AC socket.

Should water get into your NAD C 375BEE, shut off the power to the unit and remove the plug from the AC socket. Have the unit inspected by a qualified service technician before attempting to use it again.

### DO NOT REMOVE THE COVER; THERE ARE NO USER-SERVICEABLE PARTS INSIDE.

Use a dry soft cloth to clean the unit. If necessary, lightly dampen the cloth with soapy water. Do not use solutions containing benzol or other volatile agents.

#### **BARE WIRES AND PIN CONNECTORS**



**WARNING:** The terminals marked with this symbol are hazardous live. External wiring connected to these terminals requires installation by an instructed person or the use of ready-made leads or cords.

Bare wires and pin sockets should be inserted into the hole in the shaft of the terminal. Unscrew the speaker terminal's plastic bushing until the hole in the screw shaft is revealed. Insert the pin or bare cable end into the hole and secure the cable by tightening down the terminal's bushing. Ensure bare wire from the speaker cables does not touch the back panel or another socket. Ensure that there is only 1/2"(1cm) of bare cable or pin and no loose strands of speakers wire.

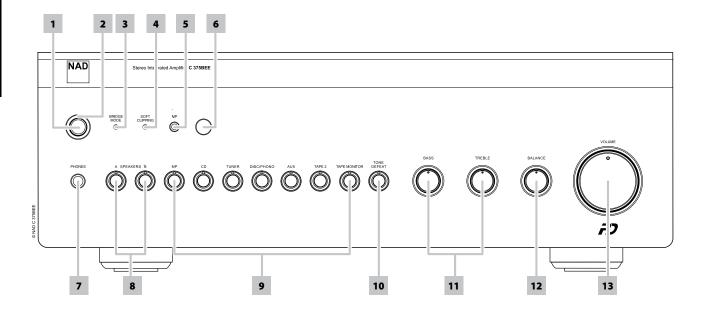
#### **QUICK START**

In case you simply cannot wait to experience the performance of your new NAD C 375BEE, we provide the following "QUICK START" instructions to get you underway.

Please make all the connections to your C 375BEE with the unit unplugged. It is also advisable to power-down or unplug all associated components while making or breaking any signal or AC power connections.

- Connect the speakers to the rear Speaker terminals and sources to the relevant rear input sockets.
- 2 Connect the AC cord to the C 375BEE's AC Mains input and then plug into an AC outlet.
- 3 Switch the POWER switch on the rear panel to the "ON" setting in order to turn the C 375BEE to standby mode. The Standby LED indicator embedded around the bezel of the STANDBY button will illuminate amber. The C 375BEE will go to standby mode.
- 4 Press the STANDBY button to turn ON the C 375BEE. The Standby LED indicator will turn from amber to blue.
- **5** Press the required input selector.

#### **FRONT PANEL**



1 STANDBY: With the rear panel POWER switch set to ON position, press this button to switch ON the C 375BEE from standby mode. The Standby LED indicator will turn from amber to blue. Pressing the STANDBY button again turns the unit back to standby mode.

The C 375BEE can also be switched ON from standby mode by pressing any of the front panel buttons.

2 STANDBY LED: This indicator will light up amber when the C 375BEE is in standby state. When the C 375BEE is at ON state, this indicator will illuminate blue. When infrared command from the SR 8 is received, this indicator will also flash momentarily.

In cases of serious abuse of the C 375BEE, such as excessively low loudspeaker impedance and short circuit, the C 375BEE will engage its Protection circuitry, indicated by the Standby LED turning from blue to red and the sound being muted.

In such a case, turn the C 375BEE OFF by the rear panel POWER switch, wait for it to cool down and/or check the speaker connections, making sure the overall loudspeaker impedance doesn't go below 4 ohms or 8 ohms in Bridge Mode. Once the cause for the protection circuitry to engage has been removed, switch ON the rear POWER switch and the STANDBY button to resume normal operation.

- 3 BRIDGE MODE INDICATOR: This BRIDGE MODE indicator lights up blue when the C 375BEE is switched to Bridge Mode. Refer also to the item below about BRIDGE MODE at the IDENTIFICATION OF CONTROLS – REAR PANEL.
- 4 MP SOCKET: Using a 3.5mm stereo plug, connect into this socket the audio output of a Media Player.

#### **NOTES**

- If an external Media Player is connected to the front MP socket (using a 3.5mm stereo plug) while listening to a MP line-level source, the external Media Player will be directly selected with the MP line-level source immediately disconnected.
- It is recommended to mute the volume or switch to a different input before plugging/unplugging the external Media Player cable.

- 5 SOFT CLIPPING INDICATOR: The blue SOFT CLIPPING LED shows that the SOFT CLIPPING mode is engaged. Refer also to the item below about SOFT CLIPPING (item 13) at the IDENTIFICATION OF CONTROLS

   REAR PANEL.
- 6 REMOTE SENSOR: Point the SR 8 remote control at the remote sensor and press the buttons. Do not expose the remote sensor of the C 375BEE to a strong light source such as direct sunlight or illumination. If you do so, you may not be able to operate the C 375BEE with the remote control.

**Distance:** About 23ft (7m) from the front of the remote sensor. **Angle:** About 30o in each direction of the front of the remote sensor.

7 PHONES: A 1/4" stereo jack socket is supplied for headphone listening and will work with conventional headphones of any impedance. The headphone socket will work in parallel to the selected speakers. To listen to headphones only, de-select Speakers A and/or B. The volume, tone and balance controls are operative for headphone listening. Use a suitable adapter to connect headphones with other types of sockets, such as 3.5mm "personal stereo" jack plugs.

#### NOTE

Make certain that the volume control is turned to minimum (fully counter-clockwise) before connecting or disconnecting headphones. Listening at high levels can damage your hearing.

8 SPEAKERS A, B: The SPEAKERS A and B buttons engage or disengage the speakers connected respectively to the SPEAKERS A and SPEAKERS B terminals on the rear panel. Press "A" to switch ON or OFF the speakers connected to the SPEAKERS A terminals. Press "B" to switch ON or OFF the speakers connected to the SPEAKERS B terminals. Press both "A" and "B" to engage at the same time both SPEAKERS A and SPEAKERS B. The corresponding blue LED indicator embedded around the SPEAKERS A and SPEAKERS B buttons will illuminate accordingly when each or both are engaged.

#### FRONT PANEL

9 INPUT SELECTORS: These buttons select the active input to the NAD C 375BEE and the signal sent to the loudspeakers, headphones and the PRE OUT sockets. The buttons on the remote control handset duplicate these buttons. When selected, the corresponding input LED indicator embedded around the bezel of the particular input button will illuminate blue.

**MP (MEDIA PLAYER):** Selects a line-level source connected to the MP sockets as the active input.

If an external Media Player is connected to the front MP socket (using a 3.5mm stereo plug) while listening to a MP line-level source, the external Media Player will be directly selected with the MP line-level source immediately disconnected. It is recommended to mute the volume or switch to a different input before plugging/unplugging the external Media Player cable.

**CD:** Selects the CD (or other line-level source) connected to the CD sockets as the active input.

**TUNER:** Selects the tuner (or other line-level source) connected to the tuner sockets as the active input.

**DISC/PHONO:** Selects a line-level source connected to the DISC sockets. With the optional PP 375 PHONO MODULE installed, the DISC input socket is disabled and the PHONO source selected as the active input.

**AUX:** Selects a line-level source connected to the AUX sockets as the active input.

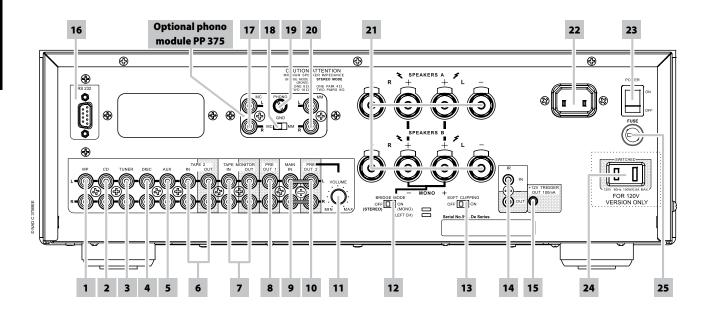
**TAPE 2:** Selects Tape 2 as the active input.

**TAPE MONITOR:** Selects the output from a tape recorder when playing back tapes or monitor recordings that are being made through the Tape Monitor sockets

**TAPE MONITOR** does not override the current input selection. For example, if CD is the active input when TAPE Monitor is selected, then the CD signal will continue to be selected and sent to both the TAPE 2 and TAPE Monitor OUTPUT sockets, but it is the sound from recorder connected to Tape Monitor that will be heard on the loudspeakers. Apart from the TAPE MONITOR LED illuminated to indicate it is engaged, the corresponding LED indicator for the active input will also stay illuminated.

- **10 TONE DEFEAT:** Tone Controls are enabled or disabled by pressing this button. When enabled (TONE DEFEAT LED indicator is illuminated), the Tone Control circuits are bypassed. The Tone Control circuits are active when the TONE DEFEAT LED indicator stays extinguished.
- 11 TONE CONTROLS: The NAD C 375BEE is fitted with BASS and TREBLE tone controls to adjust the tonal balance of your system. The 12 o'clock position is "flat" with no boost or cut, and an indent indicates this position. Rotate the control clockwise to increase the amount of Bass or Treble. Rotate the control counterclockwise to decrease the amount of Bass or Treble. The Tone controls do not affect recordings made using the Tape outputs but will affect the signal going to the Pre-amp outputs (PRE OUT 1 and PRE OUT 2).
- 12 BALANCE: The BALANCE control adjusts the relative levels of the left and right speakers. The 12 o'clock position provides equal level to the left and right channels. A detent indicates this position. Rotating the control clockwise moves the balance towards the right. Rotating the control counterclockwise moves the balance to the left. The BALANCE control does not affect recordings made using the Tape outputs but will affect the signal going to the Pre-amp output (PRE OUT 1 and PRE OUT 2).
- **13 VOLUME:** The VOLUME control adjusts the overall loudness of the signals being fed to the loudspeakers or headphones. Turn clockwise to increase the volume setting; counter clockwise to lower it. The VOLUME control does not affect recordings made using the Tape outputs but will affect the signal going to the Pre-amp output (PRE OUT 1 and PRE OUT 2).

#### **REAR PANEL**



#### ATTENTION!

Please make sure that the C 375BEE is powered off or unplugged before making any connections. It is also advisable to power-down or unplug all associated components while making or breaking any signal or AC power connections.

1 MP input: Input for a Media Player or other line-level signal source. Use a twin RCA-to-RCA lead to connect the Media Player's left and right "Audio Outputs" to this input.

#### NOTE

If an external Media Player is connected to the front MP socket (using a 3.5mm stereo plug) while listening to a MP line-level source, the external Media Player will be directly selected with the MP line-level source immediately disconnected.

- 2 CD INPUT: Input for a CD or other line-level signal source. Use a twin RCA-to-RCA lead to connect the CD player's left and right "Audio Outputs" to this input.
- **3 TUNER INPUT:** Input for a tuner or other line-level signal source. Use a twin RCA-to-RCA lead to connect the tuner left and right "Audio Outputs" to this input.
- 4 **DISC INPUT:** Input for additional line level input signals such as CD, Mini Disc player or the output signal from a step-up amplifier for a turntable. Use a twin RCA-to-RCA lead to connect the auxiliary unit's left and right "Audio Outputs" to this input.

#### NOTE

With the optional PP 375 PHONO MODULE installed, the DISC input socket is disabled and the PHONO source selected as the active input.

5 AUX INPUT: Input for additional line level input signals such as another CD player. Use a twin RCA-to-RCA lead to connect the auxiliary unit's left and right "Audio Outputs" to this input.

- 6 TAPE 2 IN/OUT: Connections for analog recording and playback to an audio tape recorder of any type. Using twin RCA-to-RCA leads, connect to the left and right "Audio Output" of the tape machine to the TAPE 2 IN sockets for playback. Connect the left and right "Audio Input" of the tape machine to the TAPE 2 OUT sockets for recording.
- 7 TAPE MONITOR IN/OUT: Connections for analog recording and playback to a secondary audio tape recorder of any type. Using twin RCA-to-RCA leads, connect to the left and right "Audio Output" of the tape machine to the TAPE MONITOR IN sockets for playback and tape monitoring. Connect the left and right "Audio Input" of the tape machine to the TAPE MONITOR OUT sockets for recording.

#### TO MAKE A RECORDING

When any source is selected, its signal is also fed directly to any tape machine connected to the TAPE 2 OUT or TAPE MONITOR OUT for recording.

#### TAPE TO TAPE COPYING

You can copy between two tape machines connected to your NAD C 375BEE. Put the source tape in the recorder connected to Tape 2 and the blank tape into the recorder connected to Tape Monitor. By selecting TAPE 2 input you can now record from Tape 2 to Tape Monitor and monitor the signal coming from the original tape.

#### NOTE

There will be no Tape 2 output when Tape 2 (or Tape Monitor OUT when Tape Monitor) is the selected source input. This prevents feedback through the recording component thereby preventing possible damage to your speakers.

#### **REAR PANEL**

8 PRE OUT 1: The PRE OUT 1 sockets can be used to drive an additional power amplifier. Use a twin RCA-to-RCA lead to connect to the left and right "Audio Input" of the Power amplifier or processor to the PRE OUT 1 sockets.

Always turn the C 375BEE and associated external power amplifiers OFF before connecting or disconnecting anything to the PRE OUT 1 sockets. The PRE OUT 1 output signal will be affected by the C 375BEE's volume and tone control settings.

9 MAIN IN: Connections to an external pre-amplifier or processor, such as a surround-sound decoder. In normal use, this should be connected to PRE OUT 2 sockets with the links supplied. To connect your NAD C 375BEE to external processor or pre-amplifier, remove first these links. Use a twin RCA-to-RCA lead to connect the left and right "Audio Output" of the pre-amp or processor to the Main In sockets.

Always turn the C 375BEE and associated external power amplifiers OFF before connecting or disconnecting anything to the MAIN IN sockets.

10 PRE OUT 2: Connections to an external power amplifier or processor, such as a surround-sound decoder. In normal use, this should be connected to the Main In sockets with the links supplied. To connect your NAD C 375BEE to external processor or amplifier sections, remove first these links. Use a twin RCA-to-RCA lead to connect the left and right "Audio Input" of a power amplifier or processor to the PRE OUT 2 sockets.

Always turn the C 375BEE and associated external power amplifiers OFF before connecting or disconnecting anything to the PRE OUT 2 sockets. The PRE OUT 2 output signal will be affected by the C 375BEE's volume and tone control settings.

11 VOLUME PRE OUT 2: The VOLUME PRE-OUT 2 control allows for adjustment of the output level of the PRE OUT 2 sockets. Turn clockwise to increase the PRE OUT 2 volume setting; counter clockwise to lower it. When set to the maximum position, the output level will be identical to that of the PRE OUT 1 sockets. Refer also to the item below about "Bi-Amping".

#### **BI-AMPING**

Some loudspeakers have separate connection terminals for the LF (Low Frequency) and HF (High Frequency) sections of the speaker. This facility allows to "Bi-Amp" these speakers, where a separate power amplifier is used for the LF and HF section, which may improve overall sound quality.

The C 375BEE provides two sets of preamplifier outputs (PRE OUT 1 and PRE OUT 2) to facilitate the connections for Bi-Amping. Moreover, the level from PRE OUT 2 can be reduced in relation to PRE OUT 1 to accommodate power amplifiers with different gain (amplification factor).

To set up the C 375BEE with power amplifiers first decide which power amplifier has the highest gain. This is easily done by comparing the loudness level of the power amplifiers in an identical system (keep the volume control at the same level; use the same source and speakers). The amplifier that plays louder has the highest gain (note that this does not need to be the more powerful amplifier of the two). Connect the amplifier with highest gain to the PRE OUT 2 sockets; the other power amplifier to the PRE OUT 1 sockets. From the maximum level position, use the VOLUME PRE OUT 2 control to reduce the output level of PRE OUT 2 so that the volume level of both power amplifiers is exactly matched.

**12 BRIDGE MODE:** The C 375BEE amplifier can be configured to be MONO (Bridge Mode), more than doubling its output power. This way, the C 375BEE can be used as part of a high power stereo or hometheatre system, by connecting additional power amplifiers.

In BRIDGED MODE (switch at ON setting), the C 375BEE will produce approximately 330W into an 8 ohm loudspeaker. In this mode, the amplifier sections will react as though the speaker impedance has been halved. Low impedance speakers (under 8 ohms) are not recommended when using Bridge Mode as these may cause the amplifier's thermal cut-out to operate if played at high levels.

Set the BRIDGE MODE switch to the "ON" position and connect the speaker to the terminals marked "L +" and "R+" ensuring that the "L+" is connected to the "+" terminal of your loudspeaker and the "R+" is connected to the loudspeaker's " - " terminal. Connect the source to the Left INPUT sockets.

The BRIDGE MODE indicator on the front panel will illuminate when the C 375BEE is in Bridge mode. Return normal speaker connections (Refer also to the item below about "SPEAKERS A,B"). and keep BRIDGE MODE switch to "OFF" position for normal stereo listening.

#### NOTE

Do not connect anything to the Right Input socket when Bridge Mode is selected.

13 SOFT CLIPPING<sup>TM</sup>: Enables NAD's proprietary Soft Clipping circuitry on all channels. At [ON] position, Soft Clipping gently limits the output of the C 375BEE to minimize audible distortion should the amplifier be over-driven. Soft Clipping may simply be left ON at all times to reduce the likelihood of audible distortion from excessive volume settings. However, for critical listening and to preserve optimum dynamics, you may wish to defeat it by setting this switch to "OFF" position.

The SOFT CLIPPING indicator on the front panel will illuminate when the C 375BEE is in Soft Clipping mode. See also below the item about "POWERDRIVE".

#### **POWERDRIVE**

The C 375BEE uses NAD's proprietary PowerDrive™ amplifier technology for all channels to preserve accurate, linear reproduction regardless of the loudspeaker. This uniquely efficient power-supply topology provides the real-world benefits of high dynamic power that remains uncompromised by low-impedance speakers.

By adding a second high-voltage rail to our well regulated high-current power supply, we get an "overdrive" that can nearly double the continuous power on a short term dynamic power basis. PowerDrive offers greater amplifier stability and low impedance drive capability, resulting in less distortion when driving real speakers with real program material.

#### **REAR PANEL**

14 IR IN/OUT: These mini-jacks accept and output remote-controlled codes in electrical format, using industry-standard protocols, for use with "IR-repeater" and multi-room systems and related technologies.
IR IN: This input is connected to the output of an IR (infrared) repeater (Xantech or similar) or the IR output of another component to allow control of the C 375BEE from a remote location.

**IR OUT:** When connected to the IR IN of an ancillary equipment, direct the ancillary equipment's own remote control to the C 375BEE's infrared receiver to command or control the linked unit

All NAD products with IR IN/IR OUT features are fully compatible with the C 375BEE. For non-NAD models, please check with your other product's service specialists as to their compatibility with the C 375BEE's IR features.

- 15 +12V TRIGGER OUT: The +12V TRIGGER OUT is used for controlling external equipment that is equipped with a +12V trigger input. This output will be 12V when the C 375BEE is ON and OV when the unit is either OFF or in standby. This output can drive a load up to 50mA at 12V.
- 16 RS-232: Connect this interface via RS-232 serial cable (not supplied) to any Windows® compatible PC to allow remote control of the C 375BEE through NAD's proprietary PC software or other compatible external controllers. NAD is a certified partner of AMX and Crestron and fully supports these external devices. See your NAD audio specialist for more information.
- 17 MC INPUT: Input for a Moving Coil phono cartridge. Connect the twin RCA lead from your turntable to this input if you are using a Moving Coil cartridge.
- **18 MC-MM SWITCH:** Slide this switch to either MM (Moving Magnet) or MC (Moving Coil) depending upon the phono cartridge being used.
- **19 PHONO GROUND CONNECTOR:** Turntables normally includes a single wire earth lead. Use the C 375BEE phono ground connector to connect this lead. Unscrew the terminal to expose the hole, which will accept the lead. After insertion, tighten the terminal to secure the lead.
- 20 MM INPUT: Input for a Moving Magnet phono cartridge. Connect the twin RCA lead from your turntable to this input if you are using a Moving Magnet cartridge.
- 21 SPEAKERS A, B: The C 375BEE is equipped with two sets of speaker connectors. Use the Speakers A terminals for the "main" speakers and use the Speakers B terminals for a second pair, for example, extension speakers located in another room.

Connect the right speaker to the terminals marked "R+" and "R-" ensuring that the "R+" is connected to the "+" terminal on your loudspeaker and the "R-" is connected to the loudspeaker's "-" terminal. Connect the terminals marked "L+" and "L-" to the left speaker in the same way.

In Bridge Mode, connect the single speaker to the terminals marked "R+" and "L+" ensuring that the "L+" is connected to the "+" terminal on your loudspeaker and the "R+" is connected to the loudspeaker's "-" terminal. Refer also to the section above about "BRIDGE MODE".

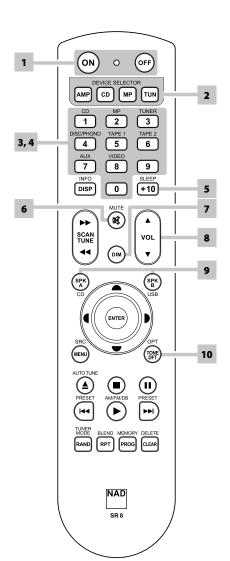
Always use heavy duty (16 gauge; 1.5mm, or thicker) stranded wire to connect loudspeakers to your C 375BEE. The high-current binding post terminals can be used as a screw terminal for cables terminating in spade or pin sockets or for cables with bare wire ends.

- **22 AC MAINS INPUT:** The C 375BEE comes supplied with a separate AC Mains cable. Before connecting the cable to a live wall socket, ensure that it is firmly connected to the C 375BEE's AC Mains input socket first. Connect only to the prescribed AC Outlet, i.e., 120V 60 Hz or 230V 50 Hz. Always disconnect the AC Mains cable plug from the live wall socket first, before disconnecting the cable from the C 375BEE's Mains input socket.
- **23 POWER SWITCH:** The POWER switch supplies the master AC mains power for the C 375BEE. When this switch is at ON position, the C 375BEE is in standby mode as shown by the amber status condition of the standby LED. Toggle the front panel's STANDBY button to switch ON the C 375BEE or back to standby mode. If you intend not to use the C 375BEE for long periods of time (such as when on vacation), switch the POWER switch to the OFF position. When the POWER switch is at OFF position, the front panel power button or SR 8 remote control cannot activate the C 375BEE.
- 24 SWITCHED AC OUTLET (120V version only): This convenience outlet can supply switched power to another component or accessory. With the Power switch at the rear panel set to ON position, this outlet is powered ON or OFF by the front panel STANDBY switch or by the SR 8's [ON/OFF] buttons. The total draw of all devices connected to this outlet must not exceed 100 watts.
- 25 FUSE HOLDER: In the unlikely event a fuse may need to be replaced, unplug the AC cord from the wall. Then, remove all connections from the amplifier. Use a flathead screw driver or similar to open the fuse holder via the slot indicated. With the screw driver in place, push and turn counterclockwise to open the fuse holder. Only replace the fuse with the same type, size, and specification T10AL 250V for 120V version or T5AL 250V for 230V version.

#### IMPORTANT NOTICE

Do not use any substitute fuses of different types or with different ratings or values. Failure to observe this precaution may cause damage to the amplifier circuits and may create a fire hazard and/or defeat the safety built into the C 375BEE and may void the warranty.

#### **SR 8 REMOTE CONTROL**



#### **USING THE SR 8 REMOTE CONTROL**

The SR 8 remote control handset handles the key functions of the C 375BEE as well as other NAD Stereo Receivers, Integrated Amplifiers and Preamplifiers. It has additional controls to remotely operate NAD CD Players, AM/FM Tuners and dedicated AM/FM/DAB Tuners. It will operate up to a distance of 23ft (7m). Alkaline batteries are recommended for maximum operating life. Two AA batteries should be fitted in the battery compartment at the rear of the Remote Control handset. When replacing batteries, check that they have been put in the right way round, as indicated on the base of the battery compartment.

When a command from the remote control is received, the Standby LED indicator will blink. Note that the indicator may also blink when receiving commands not necessarily for the C 375BEE but for other components in the system. Please refer to previous sections of the manual for a full description of individual functions.

#### NOTE

The remote control handset supplied with the C 375BEE is of a universal NAD type, designed to operate several NAD models. Some buttons are applicable only to specific NAD models. Contact your dealer or NAD audio specialist for assistance.

- 1 POWER ON & OFF: The SR 8 remote has a separate ON and OFF button. Press the ON button to switch the unit from Standby to operating mode. Press the OFF button to switch the unit to Standby mode.
- 2 DEVICE SELECTOR: A Device Selector button determines only what component the SR 8 will command; it does not perform any function on the C 375BEE. Press desired Device Selector button for the applicable buttons to be directed to a "page" of commands relevant to the selected device. Upon selecting a Device, you can now press the corresponding SR 8 control buttons applicable for the selected Device.
- **3 INPUT SELECTORS:** Refer to the corresponding labels printed in the remote control faceplate and their respective assigned buttons to make use of these functions. Set the DEVICE SELECTOR to "AMP" in order to gain access to these buttons. The input selector buttons perform the same functions as the buttons labeled the same on the front panel.
- **4 NUMERIC KEYS:** The numeric keys allow for direct input of tracks for CD players, and direct channel/preset access for tuners and receivers.
- 5 SLEEP: Switch off the NAD Receiver or Tuner after a preset number of minutes.
- 6 MUTE: Press the [MUTE] button to temporarily switch OFF the sound to the speakers and headphones. MUTE mode is indicated by the Standby LED indicator flashing for NAD Integrated Amplifiers or "Mute" shown in the VFD of NAD Receivers. Mute does not affect recordings made using the TAPE outputs but will affect the signal going to the PRE OUT outputs. Press MUTE again to restore sound.
- 7 DIM (for use with NAD Stereo Receiver, Tuner and CD Player): Reduce, turn off or restore VFD brightness. Depending on the NAD model, the brightness of the front panel display will vary when you toggle this button.

#### **SR 8 REMOTE CONTROL**

- 8 VOL [▲/▼]: Press [▲/▼] button to increase or decrease the loudness level. Release the button when the desired level is reached. For NAD Receivers, the VFD will also show "Volume Up" or "Volume Down" while pressing SR 8's [VOL ▲/▼]. The VOLUME buttons do not affect recordings made using the TAPE outputs but will affect the signal going to the PRE OUT outputs.
- 9 SPK A, SPK B: The [SPK A] and [SPK B] buttons engage or disengage the speakers connected respectively to the Speakers A and Speakers B terminals. Toggle [SPK A] to switch ON or OFF the speakers connected to the Speaker A terminals. Toggle [SPK B] to switch ON or OFF the speakers connected to the Speaker B terminals. Press both buttons to engage both speakers.

10 TONE DFT: Tone Controls are enabled or disabled by pressing this button.

**CD PLAYER CONTROL (for use with NAD CD Player):** Set the DEVICE SELECTOR to "CD" in order to gain access to these buttons. Some of the control buttons below are applicable only to specific NAD CD Player models; check the owner's manual of your NAD CD Player for control button compatibility.

**SCAN** [ ◀◀/▶▶ ]: Fast reverse/forward search.

[▲]: Open or close disc tray.

[■]: Stop playback.

[ **II ]:** Pause playback temporarily.

[▶▶I]: Go to next track/file.

[►]: Go to beginning of current track/file or to previous track/file.

[▶]: Start playback.

**FOLDER/FILE** [ ▲/▼]: Select through folder list/Select through WMA/MP3 files.

ENTER: Select desired folder or WMA/MP3 file.

**DISP:** Show playback time and other display information.

RAN: Play tracks/files in random order. RPT: Repeat track, file or whole disc. PROG: Enter or exit program mode. CLEAR: Delete programmed track/file. CD: Select CD as the active source. USB: Select USB as the active source.

**OPT:** Select optical input as the active source. **SRC:** Toggle to select desired SRC mode.



**TUNER CONTROL (for use with NAD AM/FM/DAB Tuner):** Set the DEVICE SELECTOR to "TUN" in order to gain access to these buttons. Refer to the corresponding labels printed in the remote control faceplate and their respective assigned buttons to make use of these functions. Some of the control buttons below are applicable only to specific NAD Receiver or Tuner models; check the owner's manual of your NAD Receiver or Tuner for control button compatibility.

**AUTO TUNE:** In DAB mode, press this button to automatically scan all available local stations.

**TUNE** [ $\blacktriangleleft \blacktriangleleft / \triangleright \triangleright$ ] or [ $\blacktriangleleft / \triangleright$ ]: Step up or down between AM or FM frequencies.

**PRESET** [ $\blacktriangleleft \checkmark \nearrow \blacktriangleright I$ ] or [ $\blacktriangle / \blacktriangledown$ ]: Step up or down between stored radio presets.

AM/FM/DB: Select AM, FM, DAB or XM band (if applicable).

**TUNER MODE:** In FM mode, toggle between "FM Mute On" and "FM Mute Off". In DAB mode, pressing this button will activate Dynamic Range Control (DRC), Station Order or other applicable DAB menu options.

**BLEND:** Engage or disengage BLEND feature.

**MEMORY:** Save current station into preset memory.

**DELETE:** Press and hold for about 2 seconds and the selected preset memory is erased.

[ </ > ]: In DAB mode, in combination with TUNER MODE or other compatible buttons, toggle to select through DAB feature options like Dynamic Range Control, Station Order and other appropriate DAB options.

**ENTER:** In AM/FM mode, toggle to select Preset or Tune mode. In DAB mode, press and hold to check signal strength.

**INFO:** Repeatedly pressing this button will show information as supplied by the current radio station. The applicable display contents include related DAB display information and RDS broadcast data.



#### **TROUBLESHOOTING**

CONDITION	POSSIBLE CAUSES	POSSIBLE SOLUTIONS							
No sound.	Power AC lead unplugged or power not switched ON.	Check if AC lead is plugged in and power switched ON.							
	Tape Monitor selected.	De-select Tape Monitor mode.							
	• Mute on.	Switch off Mute.							
	Rear Pre-out/Main-in amp links not fitted.	Fit links.							
No sound one channel.	Balance control not centered.	Center Balance control.							
	Speaker not properly connected or damaged.	Check connections and speakers.							
	Input lead disconnected or damaged.	Check leads and connections.							
Weak bass/diffused stereo image.	Speakers wired out of phase.	Check connections to all speakers in the system.							
Remote control handset not working.	Battery flat or incorrectly inserted.	Check or replace battery.							
	IR transmitter or receiver windows obstructed.	Remove obstruction.							
	IR receiver in direct sun or very bright ambient light.	Place unit away from direct sun, reduce amount of ambient light.							
Standby LED turns red during operation.	C 375BEE has overheated.	Turn C 375BEE OFF; make sure ventilation slots on top and bottom of C 375BEE are no blocked. After C 375BEE has cooled down, turn back ON.							
	Overall impedance of loudspeakers too low.	Ensure the overall loudspeaker impedance in not below 4 ohms.							

#### REFERENCE

#### **SPECIFICATIONS**

#### **PREAMPLIFIER SECTION**

#### LINE LEVEL INPUT, PRE OUT

THD (2 Vin 2 Vout, CCIF IMD, DIM 100) >0.004 % (ref. 20 Hz – 20 kHz)

Signal/Noise ratio IHF >102 dB (A-weighted, ref. 500 mV)

>110 dB (A-weighted, ref. 2V, Volume maximum)

>92 dB (A-weighted, ref. 100 mV in 100 mV out - unity gain)

Channel separation - 1 kHz >80 dB

10 kHz >70 dB

Input impedance (R and C) 100 k $\Omega$ + 320 pF Maximum input signal >8 Vrms (ref. 0.1 THD)

Output impedance - Pre out  $75 \Omega$ 

variable out <325 Ω

Tape out Source  $Z + 1 k\Omega$ 

Input sensitivity 158 mV (ref. 500 mV out)

Frequency response  $\pm$  0.1 dB (ref. 20 Hz - 20 kHz, Tone defeat ON)

± 0.5 dB (ref. 20 Hz - 20 kHz, Tone defeat OFF)

Maximum voltage output - IHF load >10 V (ref. 0.03% THD)

600 ohms load >10 V (ref. 0.03% THD)

#### **TONE CONTROLS**

Treble ± 5 dB at 10 kHz

Bass ± 8 dB at 100 Hz

#### **POWER AMPLIFER SECTION**

#### MAIN IN, SPEAKER OUT

Continuous output power into 8  $\Omega$  and 4  $\Omega$  (Stereo) >150 W (ref. rated THD, 20 Hz-20 kHz, both channels driven)

Continuous output power into 8 Ω (Mono, Bridge mode) >330 W

Rated THD (CCIF IMD, DIM 100) <0.009 % (ref. 20 Hz - 20 kHz)

Clipping power >170 W (ref. 1 kHz 1% THD)

IHF dynamic power -  $8 \Omega$  250 W

 $4\,\Omega\qquad 410\,W$ 

 $2\,\Omega$  600 W

IHF dynamic power (Bridge mode) -  $8 \Omega$  800 W

4Ω 1200 W

Peak output current  $>50 \text{ A (ref. 1 }\Omega, 1 \text{ ms)}$ 

Signal/noise ratio >102 dB (A-weighted, ref. 1 W)

>123 dB (A-weighted, ref. 150 W)

Damping factor >200 (ref. 8  $\Omega$ , 50 Hz and 1 kHz) Frequency response  $\pm$  0.1 dB (ref. 20 Hz - 20 kHz)

± 0.1 db (1e1. 20 112 - 20 ki 12

3 Hz – 70 kHz (ref. -3 dB)

Input impedance  $10 \text{ k}\Omega + 200 \text{ pF}$ 

Input sensitivity 1.2 V (ref. rated power)

Voltage gain 29 dB

Headphone output impedance  $68 \Omega$ 

Channel separation - 1 kHz >85 dB

10 kHz >75 dB

#### TRIGGER OUT

Output resistance  $<120 \Omega$ Output current 50 mAOutput voltage +12 V

#### **SPECIFICATIONS**

#### **OVERALL SPECIFICATIONS**

CD IN, SPEAKER OUT

THD (250 mW to rated power, CCIF IMD, DIM 100) <0.009 % (ref. 20 Hz - 20 kHz)

Signal/Noise ratio >94 dB (A-weighted, ref. 1 W)

>113 dB (A-weighted, ref. 150 W, volume set for 2V input)

Frequency response  $\pm$  0.2 dB (ref. 20 Hz - 20 kHz, Tone Defeat ON)

10 Hz – 65 kHz (ref. -3 dB)

Channel separation - 1 kHz >80 dB

10 kHz >70 dB

**POWER CONSUMPTION** 

Rated power 290 W (ref. 230V AC 50 Hz; 120V AC 60 Hz)

Standby power <1 W Idle power <120W

**DIMENSION AND WEIGHT** 

Dimensions (W x H x D) 435 x 133 x 352 mm (Net)

435 x 150 x 396 mm (Gross\*)

Net weight 15.3 kg Shipping weight 18.0 kg

Specifications are subject to change without notice. For updated documentation and features, please log onto www.NADelectronics.com for the latest information about C 375BEE.

<sup>\* -</sup> Gross dimensions include feet, volume knob and extended speaker terminals.



#### www.NADelectronics.com

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